

NASA-CR-163,106

NASA-CR-163106
19810012550

NASA Contractor Report 163106

Aerodynamic and Acoustic Behavior of a YF-12 Inlet at Static Conditions

L. H. Bangert, E. P. Feltz,
L. A. Godby, and L. D. Miller

LOCKHEED-CALIFORNIA COMPANY
BURBANK, CALIFORNIA

January 1981

LIBRARY COPY

JAN 2 1981

LANGLEY RESEARCH CENTER
LIBRARY NASA, HAMPTON, VA.



National Aeronautics and
Space Administration

Dryden Flight Research Center
Edwards, California 93523

NF02060

NASA Contractor Report 163106

**Aerodynamic and Acoustic Behavior
of a YF-12 Inlet at Static Conditions**

**L. H. Bangert, E. P. Feltz,
L. A. Godby, and L. D. Miller**

**LOCKHEED-CALIFORNIA COMPANY
BURBANK, CALIFORNIA**

January 1981

NASA

**National Aeronautics and
Space Administration**

**Dryden Flight Research Center
Edwards, California 93523**

N81-21071#

#17

1. Report No. NASA CR-163106		2. Government Accession No.		3. Recipient's Catalog No.	
4. Title and Subtitle Aerodynamic and Acoustic Behavior of a YF-12 Inlet at Static Conditions				5. Report Date January 1981	
				6. Performing Organization Code	
7. Author(s) L. H. Bangert, E. P. Feltz, L. A. Godby, and L. D. Miller				8. Performing Organization Report No. LR 29623	
9. Performing Organization Name and Address Lockheed-California Company Post Office Box 551 Burbank, California 91520				10. Work Unit No.	
				11. Contract or Grant No.	
12. Sponsoring Agency Name and Address National Aeronautics and Space Administration Washington, D.C. 20546				13. Type of Report and Period Covered Contractor Report - Final	
				14. Sponsoring Agency Code	
15. Supplementary Notes NASA Technical Monitor: Frank W. Burcham, Jr., Dryden Flight Research Center					
16. Abstract An aeroacoustic test program was performed with a YF-12 aircraft at ground static conditions. The objective was to collect acoustic and aerodynamic data that could determine the cause of YF-12 inlet noise suppression observed earlier. Data were obtained over a wide range of engine speeds; with the spike in forward, midway, and aft positions; with the forward bypass open or closed; and with the spike bleed open or closed. Acoustic measurements were made in the far-field and aerodynamic and acoustic measurements were made inside the YF-12 inlet. The J58 test engine was also removed from the aircraft and tested separately with a bellmouth inlet. The test results showed that the far-field noise level was significantly lower for the YF-12 inlet than for the bellmouth inlet at engine speeds above about 5500 rpm. The differences varied from about 5 PNdB to about 11 PNdB, depending on engine speed and on YF-12 inlet configuration. There was no evidence that YF-12 inlet noise suppression was caused by flow choking. The spectral peak near the blade passing frequency disappeared in the region of the spike support struts at engine speeds between 6000 and 6600 rpm, however. Also, multiple pure tones were significantly reduced in the region of the spike support struts.					
17. Key Words (Suggested by Author(s)) Aeroacoustics; Supersonic inlets; YF-12; Duct acoustics; Noise; Air-breathing propulsion			18. Distribution Statement Unclassified - Unlimited STAR Category: 07		
19. Security Classif. (of this report) Unclassified		20. Security Classif. (of this page) Unclassified		21. No. of Pages 432	22. Price*

Intentionally Left Blank

TABLE OF CONTENTS

LIST OF FIGURES	v
LIST OF TABLES.	xi
ACKNOWLEDGEMENTS.	xiii
SUMMARY	1
INTRODUCTION.	1
SYMBOLS	2
AIRCRAFT AND INSTRUMENTATION.	5
Aircraft	5
Aerodynamic Instrumentation	5
Acoustic Instrumentation	6
Bellmouth Inlet/J58 Engine Tests	7
TEST CONDITIONS	21
Test Sites	21
Test Variables	21
DATA REDUCTION.	25
Aerodynamic Data Reduction	25
Acoustic Data Reduction.	39
TEST RESULTS.	41
Inlet Aerodynamic Behavior	41
Inlet Acoustic Behavior.	71
CONCLUSIONS	105
REFERENCES	106
APPENDIX A TABULATIONS OF AERODYNAMIC DATA	107
APPENDIX B TABULATIONS OF ACOUSTIC DATA FOR YF-12 AIRCRAFT TESTS	281
APPENDIX C TABULATIONS OF ACOUSTIC DATA FOR BELLMOUTH INLET/J58 ENGINE TESTS.	395

(THIS PAGE LEFT INTENTIONALLY BLANK)

LIST OF FIGURES

<u>FIGURE NO.</u>	<u>TITLE</u>	<u>PAGE</u>
1.	YF-12 aircraft in position for aeroacoustic tests.	8
2.	Data recording system schematic.	9
3.	YF-12 inlet.	10
4.	Sketch of instrumentation locations inside the inlet - spike forward.	12
5.	Sketch of instrumentation locations inside the inlet - spike aft.	13
6.	Inlet guide vane total pressure probe locations. . .	14
7.	YF-12 inlet area distribution.	15
8.	YF-12 external microphone locations.	16
9.	Bruel and Kjaer microphone system.	17
10.	Kulite system.	18
11.	Test arrangement for bellmouth inlet/J58 engine acoustic tests	19
12.	Microphone locations for bellmouth inlet/J58 engine acoustic tests.	20
13.	Engine corrected air flow rate parameter	31
14.	Coordinate system for rake or static pressure tap location	32
15.	Schematic of acoustic data analysis system	40
16.	Effect of bypass position on inlet performance: spike forward and spike bleed open	43
17.	Effect of bypass position on inlet performance: spike midway and spike bleed open.	44
18.	Effect of spike position on inlet performance: bypass open and spike bleed open	45
19.	Effect of spike position on inlet performance: bypass closed and spike bleed open	46
20.	Effect of spike bleed on inlet performance: spike forward and bypass open.	47

LIST OF FIGURES (CONT.)

<u>FIGURE NO.</u>	<u>TITLE</u>	<u>PAGE</u>
21.	Effect of spike bleed on inlet performance: spike forward and bypass closed	48
22.	Effect of spike bleed on inlet performance: spike midway and bypass open.	49
23.	Effect of spike bleed on inlet performance: spike aft and bypass open	50
24.	Engine mass flow ratio as a function of engine speed for the three spike positions	51
25.	Mach numbers at the cowl lip and shock trap stations.	52
26a.	Cowl static pressure distribution for different engine speeds: spike forward, bypass open, and spike bleed open.	53
26b.	Spike static pressure distribution for different engine speeds: spike forward, bypass open, and spike bleed open.	54
26c.	Rake Mach number profiles for different engine speeds: spike forward, bypass open, and spike bleed open.	55
27a.	Cowl static pressure distribution for bypass open and closed: spike forward, spike bleed open, and 6000 rpm.	56
27b.	Spike static pressure distribution for bypass open and closed: spike forward, spike bleed open, and 6000 rpm.	57
27c.	Rake Mach number profiles for bypass open and closed: spike forward, spike bleed open, and 6000 rpm	58
28a.	Cowl static pressure distribution for bypass open and closed: spike forward, spike bleed open, and 6600 rpm.	59
28b.	Spike static pressure distribution for bypass open and closed: spike forward, spike bleed open, and 6600 rpm.	60
28c.	Rake Mach number profiles for bypass open and closed: spike forward, spike bleed open, and 6600 rpm	61

LIST OF FIGURES (CONT.)

<u>FIGURE NO.</u>	<u>TITLE</u>	<u>PAGE</u>
29a.	Cowl static pressure distribution for spike forward, midway, and aft: bypass open, spike bleed open, and 6000 rpm.	62
29b.	Spike static pressure distribution for spike forward, midway, and Aft: bypass open, spike bleed open, and 6000 rpm.	63
29c.	Rake Mach number profiles for spike forward, midway, and aft: bypass open, spike bleed open, and 6000 rpm.	64
30a.	Cowl static pressure distribution with spike bleed open and closed: spike forward, bypass open, and 6000 rpm.	65
30b.	Spike static pressure distribution with spike bleed open and closed: spike forward, bypass open, and 6000 rpm.	66
30c.	Rake Mach number profiles with spike bleed open and closed: spike forward, bypass open, and 6000 rpm.	67
31a.	Cowl static pressure distribution with spike bleed open and closed: spike forward, bypass closed, and 6000 rpm.	68
31b.	Spike static pressure distribution with spike bleed open and closed: spike forward, bypass closed, and 6000 rpm.	69
31c.	Rake Mach number profiles with spike bleed open and closed: spike forward, bypass closed, and 6000 rpm.	70
32.	Far-Field perceived noise level at zero degrees from inlet centerline and 25 m for YF-12 and bellmouth inlets.	77
33.	Far-Field perceived noise level polars for the YF-12 and bellmouth inlets. YF-12 inlet with spike forward, bypass open, and spike bleed open. . .	78
34.	Far-Field spectra for YF-12 inlet and bellmouth inlet at zero degrees and 5000 rpm. YF-12 inlet with spike forward, bypass open, and spike bleed open.	79

LIST OF FIGURES (CONT.)

<u>FIGURE NO.</u>	<u>TITLE</u>	<u>PAGE</u>
35.	Far-field spectra for YF-12 inlet and bellmouth inlet at zero degrees and 6000 rpm. YF-12 inlet with spike forward, bypass open, and spike bleed open.	80
36.	Far-field spectra for YF-12 inlet and bellmouth inlet at zero degrees and 6600 rpm. YF-12 inlet with spike forward, bypass open, and spike bleed open.	81
37.	Narrow-band spectra for the bellmouth inlet	82
38.	Effect of engine speed on far-field perceived noise level for YF-12 inlet: spike forward, bypass open, spike bleed open.	83
39.	Effect of engine speed on far-field spectra at zero degrees for YF-12 inlet: spike forward, bypass open, spike bleed open	84
40a.	YF-12 inlet spectra at 5000 rpm, spike forward, bypass open, and spike bleed open: one-third octave band	85
40b.	YF-12 inlet spectra at 5000 rpm, spike forward, bypass open, and spike bleed open: narrow band . . .	86
41a.	YF-12 inlet spectra at 6000 rpm, spike forward, bypass open, and spike bleed open: one-third octave band	87
41b.	YF-12 inlet spectra at 6000 rpm, spike forward, bypass open, and spike bleed open: narrow band . . .	88
42a.	YF-12 inlet spectra at 6600 rpm, spike forward, bypass open, and spike bleed open: one-third octave band	89
42b.	YF-12 inlet spectra at 6600 rpm, spike forward, bypass open, and spike bleed open: narrow band . . .	90
43.	YF-12 inlet spectra at 6600 rpm, spike forward, bypass closed, spike bleed open	91
44.	Effect of bypass opening on far-field perceived noise level for YF-12 inlet at 6000 rpm, spike forward, spike bleed open	92
45.	Effect of bypass opening on far-field spectra for YF-12 inlet at zero degrees: 6000 rpm, spike forward, spike bleed open	93

LIST OF FIGURES (CONT.)

<u>FIGURE NO.</u>	<u>TITLE</u>	<u>PAGE</u>
46a.	YF-12 inlet spectra at 6000 rpm, spike forward, bypass closed, and spike bleed open: one-third octave band	94
46b.	YF-12 inlet spectra at 6000 rpm, spike forward, bypass closed, and spike bleed open: narrow band . .	95
47.	Effect of spike bleed opening on far-field perceived noise level for YF-12 inlet at 6000 rpm, spike forward, bypass open.	96
48.	Effect of spike bleed opening on far-field spectra for YF-12 inlet at zero degrees: 6000 rpm, spike forward, bypass open.	97
49.	YF-12 inlet spectra at 6000 rpm, spike forward, bypass closed, and spike bleed closed	98
50.	Effect of spike bleed opening on far-field perceived noise level for YF-12 inlet at 6000 rpm, spike forward, bypass closed	99
51.	Effect of spike bleed opening on far-field spectra for YF-12 inlet at zero degrees: 6000 rpm, spike forward, bypass closed	100
52.	YF-12 inlet spectra at 6000 rpm, spike forward, bypass closed, spike bleed closed	101
53.	Effect of spike position on far-field perceived noise level for YF-12 inlet at 6000 rpm, bypass open, spike bleed open.	102
54.	Effect of spike position on far-field spectra for YF-12 inlet at zero degrees: 6000 rpm, bypass open, spike bleed open.	103
55.	YF-12 inlet spectra at 6000 rpm, spike aft, bypass open, spike bleed open.	104

(THIS PAGE LEFT INTENTIONALLY BLANK)

LIST OF TABLES

<u>TABLE NO.</u>	<u>TITLE</u>	<u>PAGE</u>
1.	Inlet Instrumentation Locations.	11
2.	Run Numbers for YF-12 Aeroacoustic Tests	23
3.	Run Numbers for Bellmouth Inlet/J58 Engine Acoustic Tests at Beale AFB.	24
4.	Rake Instrumentation	33
5.	Engine Face Instrumentation.	35
6.	Static Pressure Instrumentation.	36
7.	Engine Face Probe Matrix	37
8.	Cowl Lip Rake Area Elements	38
A-1.	Run Numbers for Reduced YF-12 Aerodynamic Data . . .	111
B-1.	Run Numbers for Reduced YF-12 Acoustic Data	285
C-1.	Run Numbers for Bellmouth Inlet/J58 Engine Acoustic Tests at Beale AFB	399

(THIS PAGE LEFT INTENTIONALLY BLANK)

ACKNOWLEDGEMENTS

The Lockheed-California Company participated in this program under a contract from the National Aeronautics and Space Administration.

Special recognition is due to F. W. Burcham, Jr. and K. G. Mackall of the NASA-Dryden Flight Research Center for their outstanding efforts in the planning and execution of this program.

The authors also express their appreciation to the following persons for their significant contributions in the performance of this program: D. Borchers, R. Cohn, B. Kock, P. Lasagna, and A. Ogden of the NASA-Dryden Flight Research Center; and R. I. Eaton, E. H. Ellersieck, and A. D. King of the Lockheed-California Company.

(THIS PAGE LEFT INTENTIONALLY BLANK)

AERODYNAMIC AND ACOUSTIC BEHAVIOR OF A YF-12 INLET AT STATIC CONDITIONS

Louis H. Bangert, Edward P. Feltz, Larry A. Godby, and L. Dean Miller

LOCKHEED-CALIFORNIA COMPANY
Burbank, California 91520

SUMMARY

An aeroacoustic test program was performed with a YF-12 aircraft at ground static conditions. The objective was to collect acoustic and aerodynamic data that could determine the cause of YF-12 inlet noise suppression observed earlier. Data were obtained over a wide range of engine speeds; with the spike in forward, midway, and aft positions; with the forward bypass open or closed; and with the spike bleed open or closed. Acoustic measurements were made in the far-field, and aerodynamic and acoustic measurements were made inside the YF-12 inlet. The J58 test engine was also removed from the aircraft and tested separately with a bellmouth inlet. The test results showed that the far-field noise level was significantly lower for the YF-12 inlet than for the bellmouth inlet at engine speeds above about 5500 rpm. The differences varied from about 5 PNdB to about 11 PNdB, depending on engine speed and on YF-12 inlet configuration. There was no evidence that YF-12 inlet noise suppression was caused by flow choking. The spectral peak near the blade passing frequency disappeared in the region of the spike support struts at engine speeds between 6000 and 6600 rpm, however. Also, multiple pure tones were significantly reduced in the region of the spike support struts.

INTRODUCTION

Supersonic cruise research technology studies have shown the need for inlet suppression of fan noise at landing approach and takeoff conditions to meet community noise regulations. Discussions at the NASA-Lewis Inlet/Fan Noise Workshop in November 1978 produced a consensus that 15 to 20 PNdB suppression was required on landing approach, and 5 to 10 PNdB on takeoff. These estimates were based in part on the anticipated characteristics of variable-cycle engines now being developed. Until recently, it had generally been assumed that such suppression levels would be achieved mainly by choking the inlet, and partly by the use of acoustic liners. Operating with choked inlets may give significantly lower total pressure recovery and higher distortion, however. This may critically affect overall aircraft performance in these low-altitude, low-speed conditions. Thus, there is a strong incentive to determine those inlet design features that can give the required noise suppression, while maintaining the performance required for safe operation.

In December 1978 some exploratory ground-static tests of inlet suppression of compressor noise were performed at NASA-Dryden Flight Research Center using a YF-12 aircraft. Additional tests of a J58 engine with a bellmouth inlet were performed for comparison. The results showed significant noise suppression for the YF-12 inlet compared to the bellmouth inlet. Calculated Mach numbers indicated that the flow was well below choking throughout the inlet. No inlet flow field measurements or internal acoustic measurements were made in these exploratory tests, however. As a result, no definite interpretation of these

noise suppression results was possible. It may be noted that similar results were reported by Putnam and Smith (reference 1) for an XB-70 aircraft. In that case also, there was significant noise suppression at conditions well below choking. Again, lack of inlet instrumentation prevented an explanation of the acoustic data.

Because the exploratory YF-12 data offered the possibility that some feature of the inlet design, other than choking, provided noise suppression, the NASA-Dryden Flight Research Center and the Lockheed-California Company performed a more comprehensive test program. The general objective of this program was to collect acoustic and aerodynamic data to provide the basis for identifying the physical causes of the noise suppression. Within this broad objective, it was desired to determine whether in fact choking had occurred in the YF-12 inlet, and to locate the region of the inlet where noise suppression occurred.

In the subsequent test program, aerodynamic and acoustic measurements were made inside the inlet, and acoustic measurements outside. All the tests were performed with a YF-12 aircraft at ground static conditions. Engine speed was varied from 3800 to 6600 rpm. Spike position was held in forward, midway, or aft position. The forward bypass was either open or closed. On some runs the spike bleed was closed by taping over the bleed perforations. After the tests with the YF-12 aircraft were completed, the J58 engine used in the tests was removed from the aircraft. A series of acoustic tests were performed on this engine with a bellmouth inlet, to provide directly comparable data.

The first results of this test program were presented in reference 2. The present report gives the results of the entire test program.

SYMBOLS

A_C	Inlet capture area
A_{CL}	Inlet area at cowl lip
A_{EF}	Engine face area
A_T	Inlet throat area
A, B, C, D, E	Total pressure probes at engine face, see figure 6
BPF	Blade passing frequency
g	Acceleration of gravity
K_a	Combined distortion
K_r	Radial distortion
K_θ	Circumferential distortion

SYMBOLS (continued)

LP-8	Overall sound pressure level
M	Mach number
\bar{M}	Area-weighted engine face Mach number
M_{CL}	Mach number at cowl lip
M_{EF}	Engine face Mach number based on corrected air flow rate
$M_{R2, R4}$	Average Mach number at rakes R2 and R4
M_{R1}	Average Mach number at rake R1
M_T	Throat Mach number
MPT	Multiple pure tone
m_{CL}	Mass flow rate at cowl lip
m_{ENG}	Mass flow rate of engine
m_T^*	Sonic mass flow rate at throat area and at freestream total pressure
N	Engine speed
ODBA	Noise level computed by log sum of A-weighting sound pressure levels
P	Static pressure
P_o	Ambient pressure
P_{STD}	1.0 atm
P_T	Total pressure
P_T'	Total pressure measured by pitot tube
P_{T_o}	Freestream total pressure; also, ambient pressure
$P_{T_{EF}}$	Area-weighted engine face total pressure
$P_{T_{CL}}$	Total pressure at cowl lip
$\Delta P_T / P_{T_{EF}}$	Engine face distortion
PNL	Perceived noise level
q_{EF}	Dynamic pressure at engine face

SYMBOLS (continued)

r_c	Inlet radius at cowl lip
R	Gas constant for air
SIL	Speech interference level (not applicable for external noise)
SPL	Sound pressure level
T	Temperature
T_o	Ambient temperature
T_{STD}	288.15 degrees kelvin
W	Weight flow rate
W_{CL}	Weight flow rate at cowl lip
X	Axial distance from cowl lip
X_i/r_c	Distance ratio from spike tip to rake or tap on spike
X_{CL}/r_c	Distance ratio from spike tip to cowl lip
X_{CW}/r_c	Distance ratio from cowl lip to rake or tap on spike
$\Delta X/r_c$	Distance ratio spike is translated forward from design position
y/r_c	Normal distance ratio of rake probes from surface
δ	Corrected pressure, P_T/P_{STD}
θ	Corrected temperature, T_o/T_{STD}

AIRCRAFT AND INSTRUMENTATION

Aircraft

The photograph in figure 1 shows YF-12 aircraft 06935 with J58 engines as it was positioned for the tests. The aircraft and the far-field microphones were on a concrete taxiway so that sound propagation was entirely over concrete.

Some of the measurements for these tests were made using existing aircraft sensors. Thus, ambient pressure and temperature were measured by aircraft free-stream total pressure and total temperature probes, respectively, in ground-static conditions. Engine speed, spike position, and forward bypass door position were also obtained from onboard sensors. Each of the above quantities was recorded over the same time intervals as the other pressure and acoustic measurements. Figure 2 shows the schematic arrangement of the data recording system.

Aerodynamic Instrumentation

The principal features of the YF-12 inlet are shown in the isometric sketch of figure 3. In developing the instrumentation plan, a number of possible causes of noise suppression were considered. These included suppression by the spike bleed, the shock trap, or the forward bypass; locally sonic flow at one of the minimum areas near the cowl lip, the shock trap, and the spike support struts; and interference by the spike support struts. The inlet instrumentation was chosen with these possibilities in mind.

Inlet instrumentation locations are given in table 1 and in the sketches shown in figures 4 and 5 for the spike in the forward and aft positions, respectively. The symbols S1, S2, etc., denote wall static pressure measurement locations. R1, R2, etc., denote total pressure rakes. K1, K3, etc., denote Kulite acoustic sensors mounted flush with the inlet surface. The Kulites are discussed in the Acoustic Instrumentation section. The rakes, static pressure orifices, and Kulites had different angular locations to minimize interference effects.

A static pressure measurement (S28) was also made in the spike bleed plenum.

Figure 6 is a schematic front view of the inlet guide vane (IGV) rakes, showing the total pressure measurement locations. These total pressure probes were built into the IGVs, so there was no interference due to a separate engine face rake.

With the spike in the forward position, the rakes on the cowl and spike lined up as shown in figure 4. These rakes were also close to the minimum geometric flow areas, which are shown in figure 7. The total pressure rakes and the wall static pressures were included to provide details of the inlet flow and to aid in the interpretation of the acoustic data. It was particularly desired to detect any regions of sonic flow and of flow separation. The IGV total

pressure measurements were intended to provide inlet total pressure recovery and inlet distortion. Rakes R1 and R3 were also to be used to estimate the mass flow rate at the cowl lip. Because the engine flow rate was known as a function of corrected engine speed and total pressure recovery, an estimate could be made of flow rate into the inlet through the forward bypass and the spike bleed. These mass flow rates are included in the tabulations of Appendix A.

Pressures were sensed by a scanivalve system that was located on top of the wing inboard of the engine. This location minimized the length of tubing from the orifice to the transducer. The system included three scanivalves, each with 48 ports. The three were connected to each other and driven by the same motor. Pressures were sampled by each scanivalve at the rate of ten ports per second. The differential pressures were sensed by a single transducer with a range of + 7 psid from the reference. The reference pressure was sensed by a single high-accuracy digital transducer. The arrangement used to record the scanivalve data is indicated in figure 2.

Acoustic Instrumentation

The arrangement of the external microphones is shown in the plan view sketch of figure 8. The nine microphones in the forward 110-degree arc were placed to primarily measure compressor noise. The aft microphone, F10, primarily recorded jet noise. F10 was placed at only 15.2m (50 ft) from the nozzle exit because this was nearly the limit of the concrete taxiway in that direction.

Microphone M11 was placed on the upper wing outside of the forward bypass to measure the noise radiated through the bypass. Microphone M1 was in the spike bleed plenum, microphone M2 was inside of the shock trap, and microphone M3 was inside of the forward bypass plenum opposite to M11.

Kulite locations were chosen to detect differences in sound pressure level and in spectrum shape across the support struts, the forward bypass, the shock trap, the spike bleed, and the three throats (at spike forward). K12 and K14 were placed to provide acoustic data near the engine noise source. It was recognized that the data from K12 and K14 would also be influenced by the inlet flow conditions near the engine face, however. The Kulite placement is shown in figures 4 and 7, and in table 1.

A Bruel and Kjaer (B&K) system was used for far-field microphones F1 through F10, and microphones M1, M2, M3, and M11. The B&K system is shown in figure 9. The nylon windscreen around the microphone effectively reduces wind-induced noise at low wind speeds. The B&K microphones have high resistance to humidity, a wide temperature range, and small temperature coefficients. They have a sufficiently rugged construction for easy handling in the field.

Kulite transducers were used for the inlet acoustic measurements because of their small size and favorable frequency response characteristics. The Kulite system is shown in figure 10. The Kulite transducer consists of a miniature silicon diaphragm on which a Wheatstone bridge has been atomically bonded using solid state diffusion.

Each microphone system was first calibrated in the laboratory as a complete system. Each system was checked for noise floor, sensitivity, and frequency response. A recording of system frequency response was made. Because the Kulites, except K1, were inaccessible after the engine was installed, a durability test was conducted prior to engine installation. With each Kulite system mounted in the inlet, it was checked for sensitivity and frequency response over a two day period. No changes were noticed, so the engine was installed and testing began.

Each day prior to and after testing a field calibration was performed on the far-field microphone system. The field calibration consisted of a sensitivity calibration using a B&K 4220 pistonphone and a system frequency response check using an IVIE IE-20B pink noise generator. The pistonphone is a portable, battery driven, precision calibrator. With the microphone properly seated in the coupler of the pistonphone, the sound pressure level at the microphone diaphragm was normally 124 dB relative to 0.0002 microbar at 250 Hz. The calibration was corrected for atmospheric pressure using a barometer provided with the pistonphone. The pistonphone accuracy was ± 0.2 dB. The pink noise generator provided broadband noise whose energy content was inversely proportional to frequency. The IVIE pink noise generator was battery operated with specifications of ± 0.5 dB from 20 Hz to 20 KHz. All calibrations were recorded on tape along with the data.

Near the end of the testing, the spike was removed so that the spike bleed perforations could be closed by taping from inside the spike. At this time another calibration of the B&K and the Kulite systems was performed. All of the microphone systems were found to be acceptable. At the completion of testing, all systems were calibrated again and recorded on tape.

Bellmouth Inlet/J58 Engine Tests

After the test program with the YF-12 aircraft was completed, the left J58 engine used in the tests was removed from the aircraft. Acoustic tests at ground-static conditions were then performed on this engine with a bellmouth inlet. The purpose of these tests was to obtain data that would allow direct assessment of the effect of the YF-12 inlet on the transmitted noise, without variation in the noise source. The earlier bellmouth inlet/J58 engine tests had used a different engine from that in the aircraft. Although no significant differences were anticipated, it was desirable to perform these last tests for completeness.

The photograph of figure 11 shows the subject J58 engine in a test cell at Beale Air Force Base, California. In the foreground the microphones are visible. Figure 12 is a plan view sketch of the test arrangement, showing the microphone locations.

The microphone system for these bellmouth inlet/J58 engine tests was the same B&K system described in the Acoustic Instrumentation section.

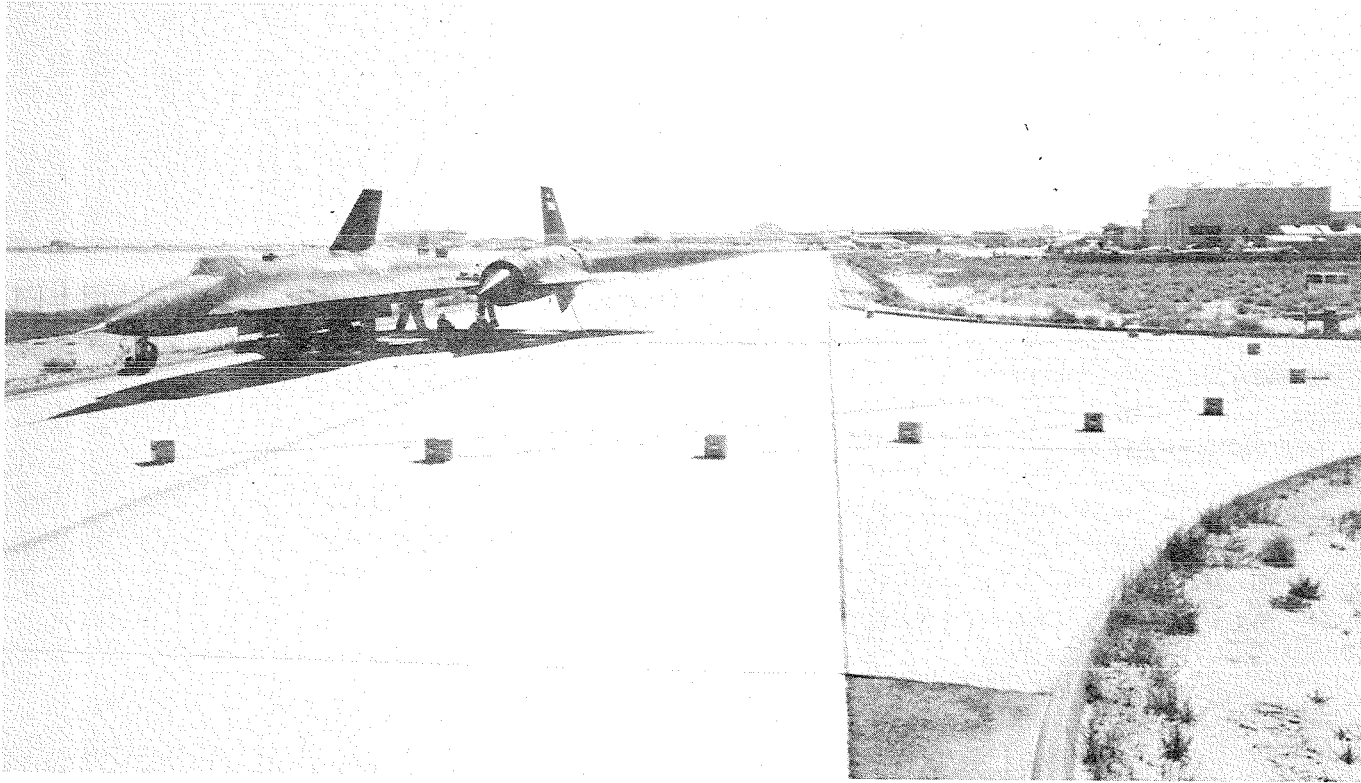


Figure 1. YF-12 aircraft in position for aeroacoustic tests.

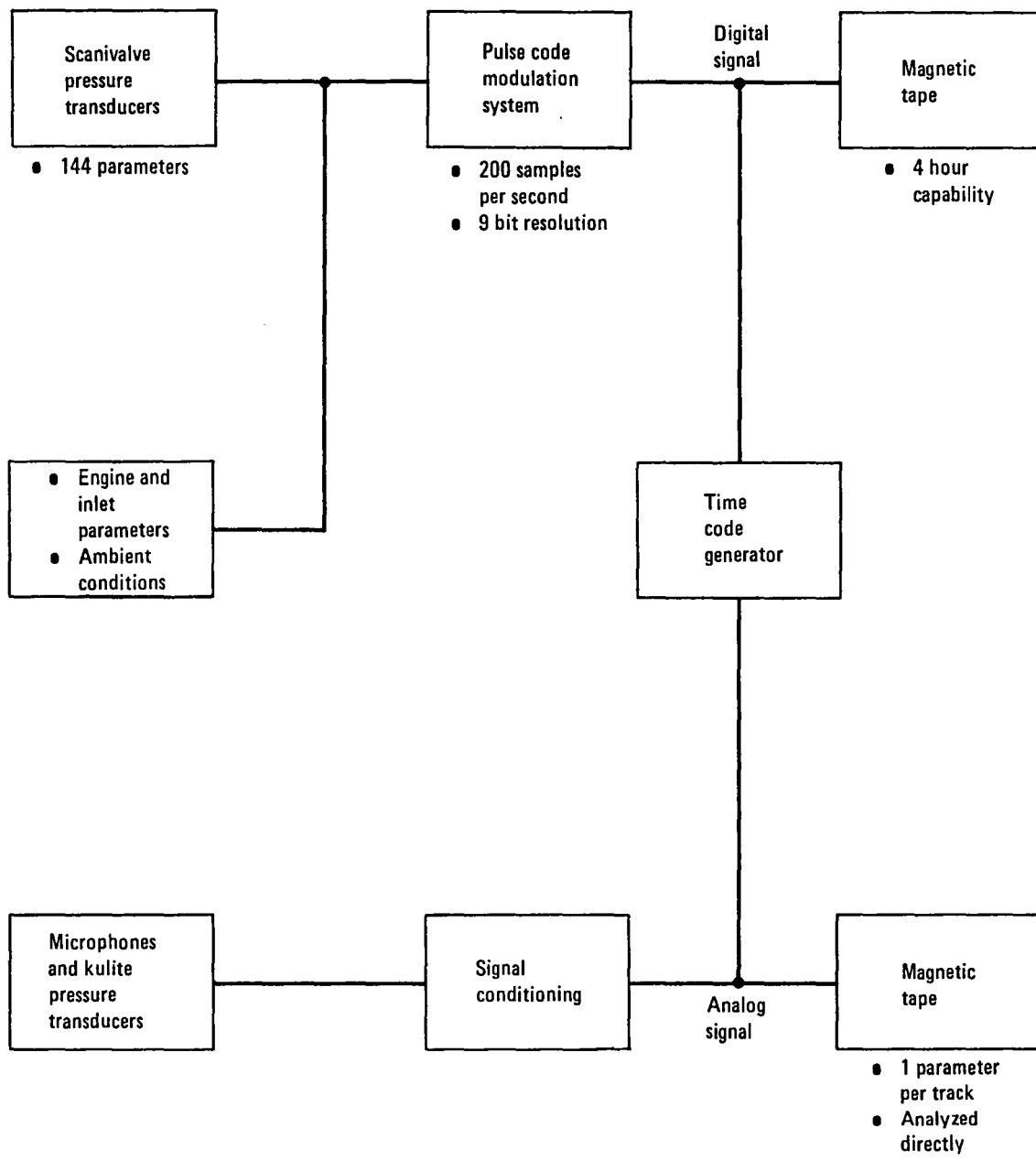


Figure 2. Data recording system schematic.

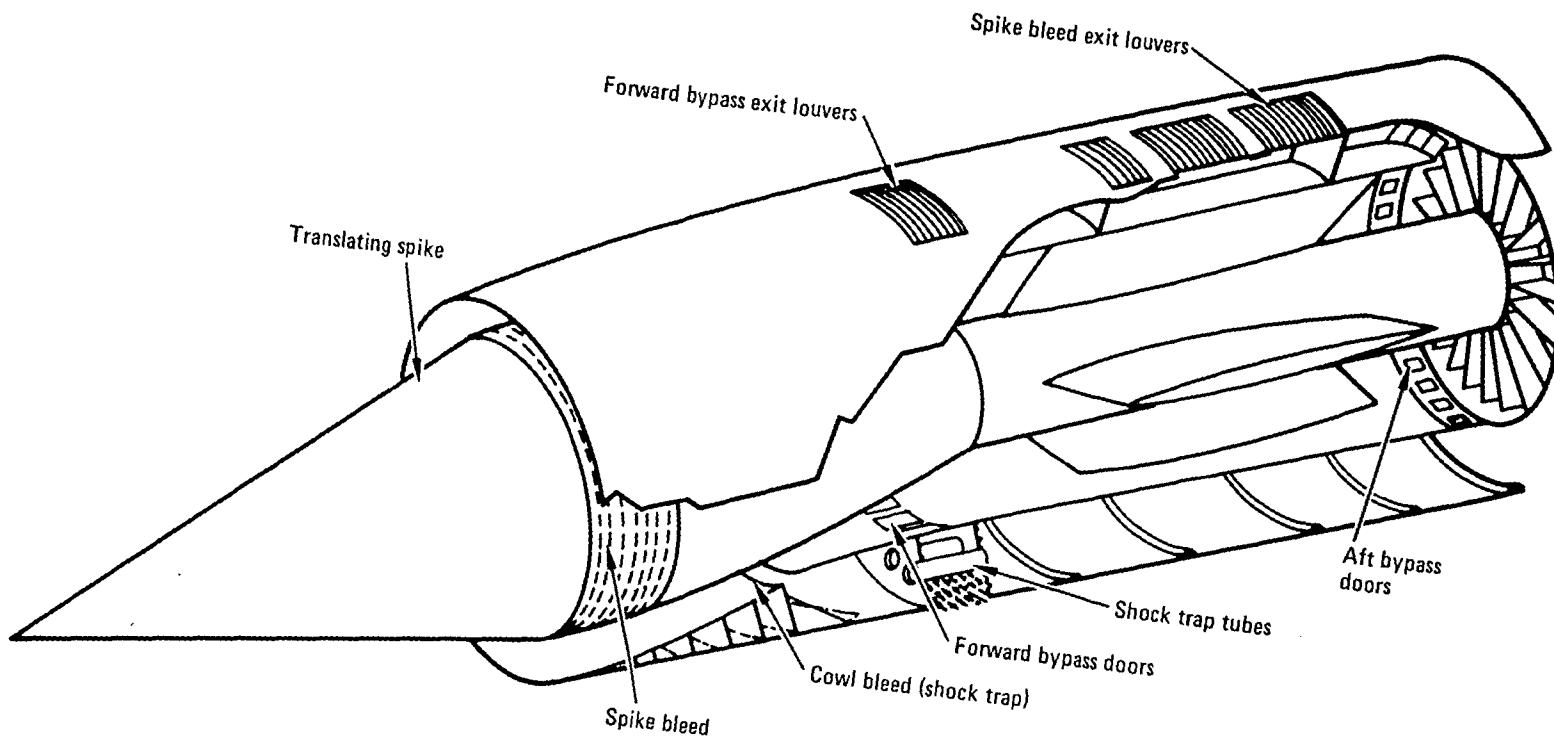


Figure 3. YF-12 Inlet

TABLE 1. INLET INSTRUMENTATION LOCATIONS

SENSOR	STATION* (x/r_c)	ANGLE** (DEG)	SURFACE
S1	-0.08	13	SPIKE
K1	-0.08	2.9	
R1	0.069	30.2	
S2	0.069	22	
S11	0.069	112	
S12	0.069	202	
S13	0.069	292	
S3	0.137	0	
S4	0.403	3.74	
S5	0.639	0	
S6	0.886	2.3	
K3	0.886	7.24	
S7	1.014	0	
S8	1.146	0	
S9	1.509	19.7	
R2	1.464	42.8	
S10	1.845	1.0	
K5	1.845	4.5	
S28	-	-	
S24	3.504	-	
R6	3.504	-	
K14	5.094	-	
S27	5.300	-	
S14	0.031	66.4	(INSIDE SPIKE)
R3	0.07	53.0	
S15	0.186	66.4	
S16	0.415	65.9	
S17	0.847	65.9	
S25	0.847	39.3	
K6	0.847	65.9	
S18	1.174	65.9	
S19	1.459	32.8	
S20	1.540	31.7	
R4	1.538	37.1	
K8	1.824	6.0	
S21	1.827	13.1	
S22	2.784	-	
K10	2.784	-	
S23	3.298	-	
R5	3.327	0	
K12	5.083	-	
S26	5.289	-	
			COWL

* Referenced to cowl lip with spike in forward position.

** Referenced to zero degrees at top looking downstream, clockwise positive.

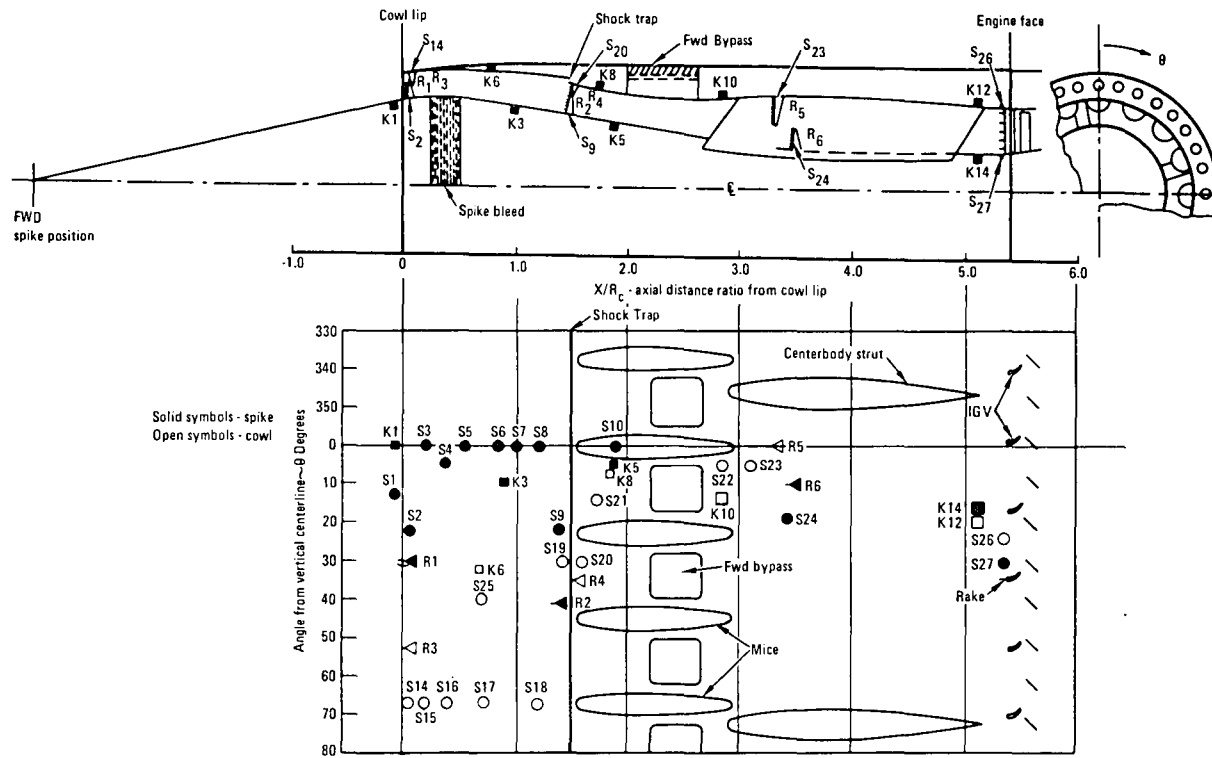


Figure 4. Sketch of instrumentation locations inside the inlet - spike forward.

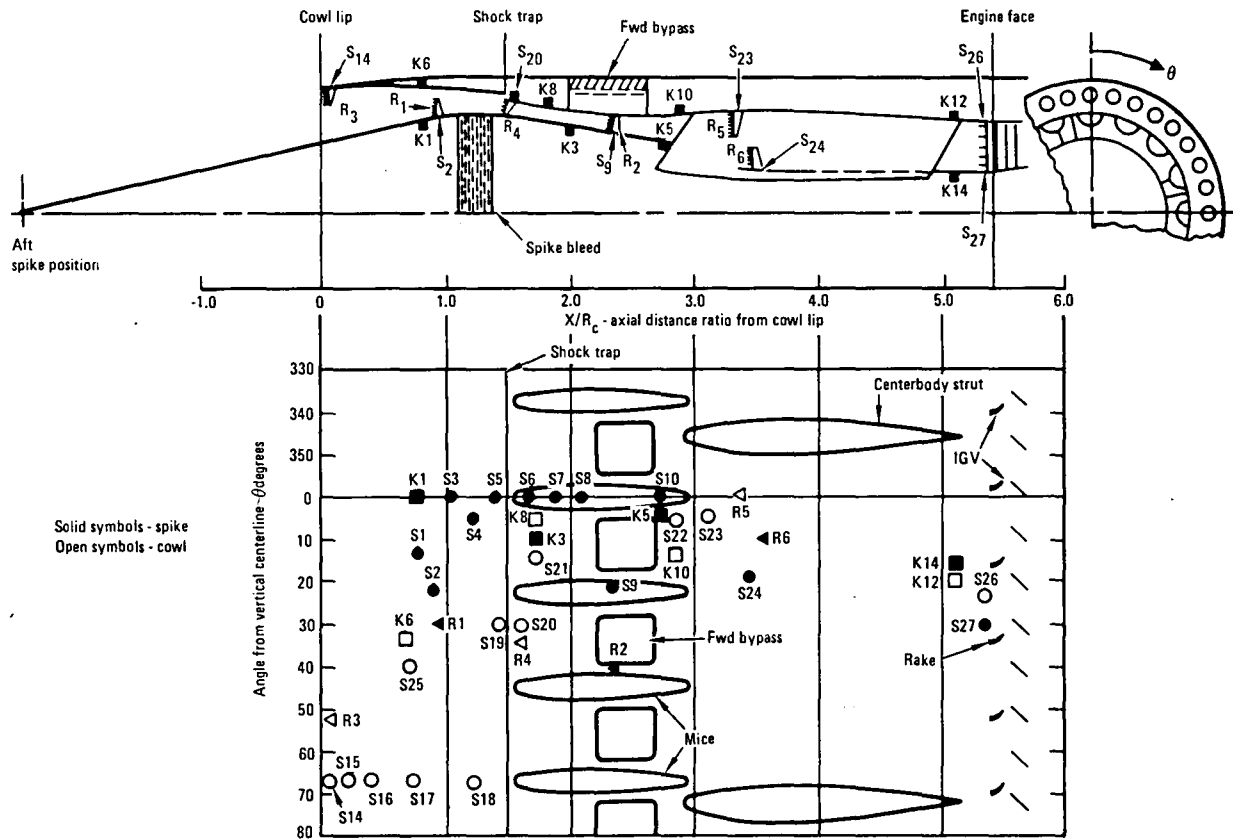


Figure 5. Sketch of instrumentation locations inside the inlet - spike aft.

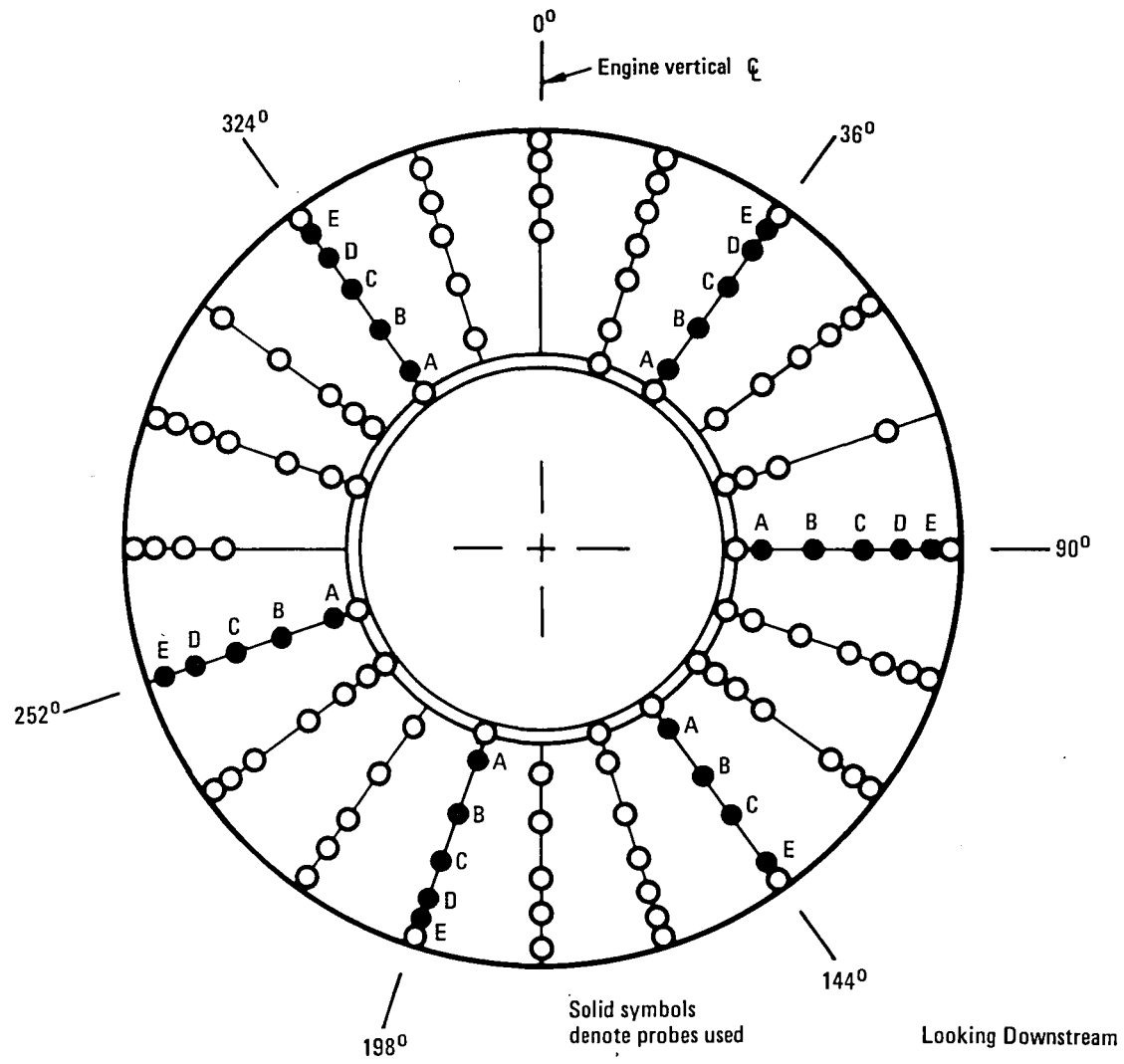


Figure 6. Inlet guide vane total pressure probe locations.

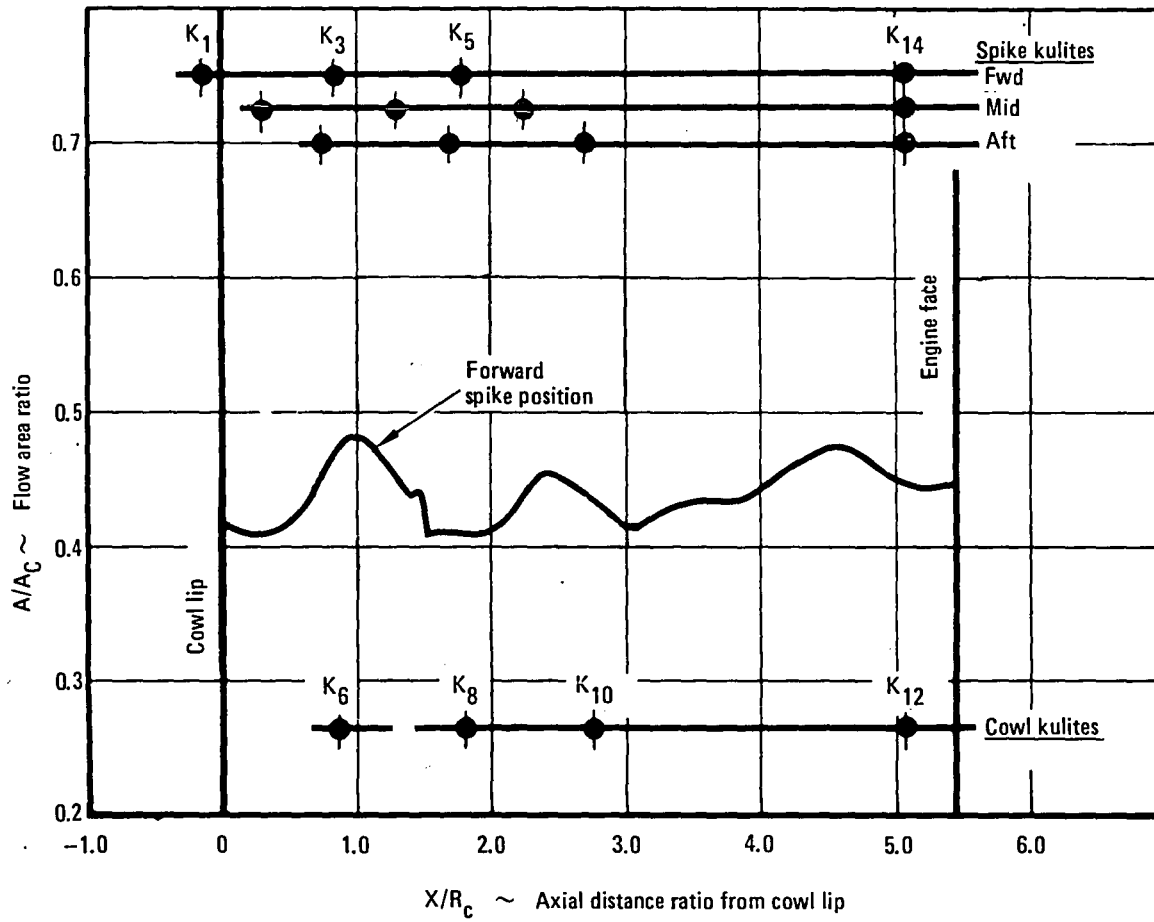


Figure 7. YF-12 inlet area distribution.

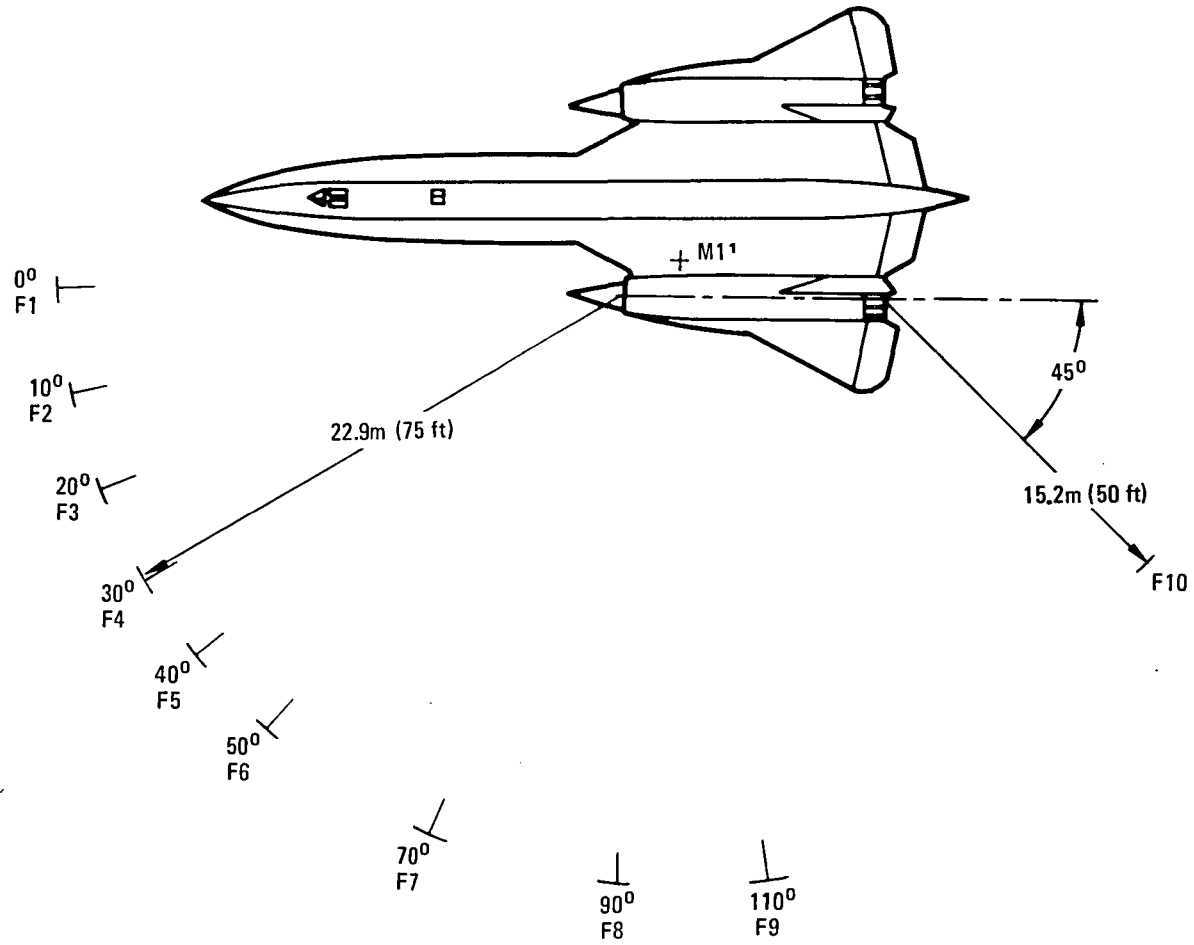


Figure 8. YF-12 external microphone locations.

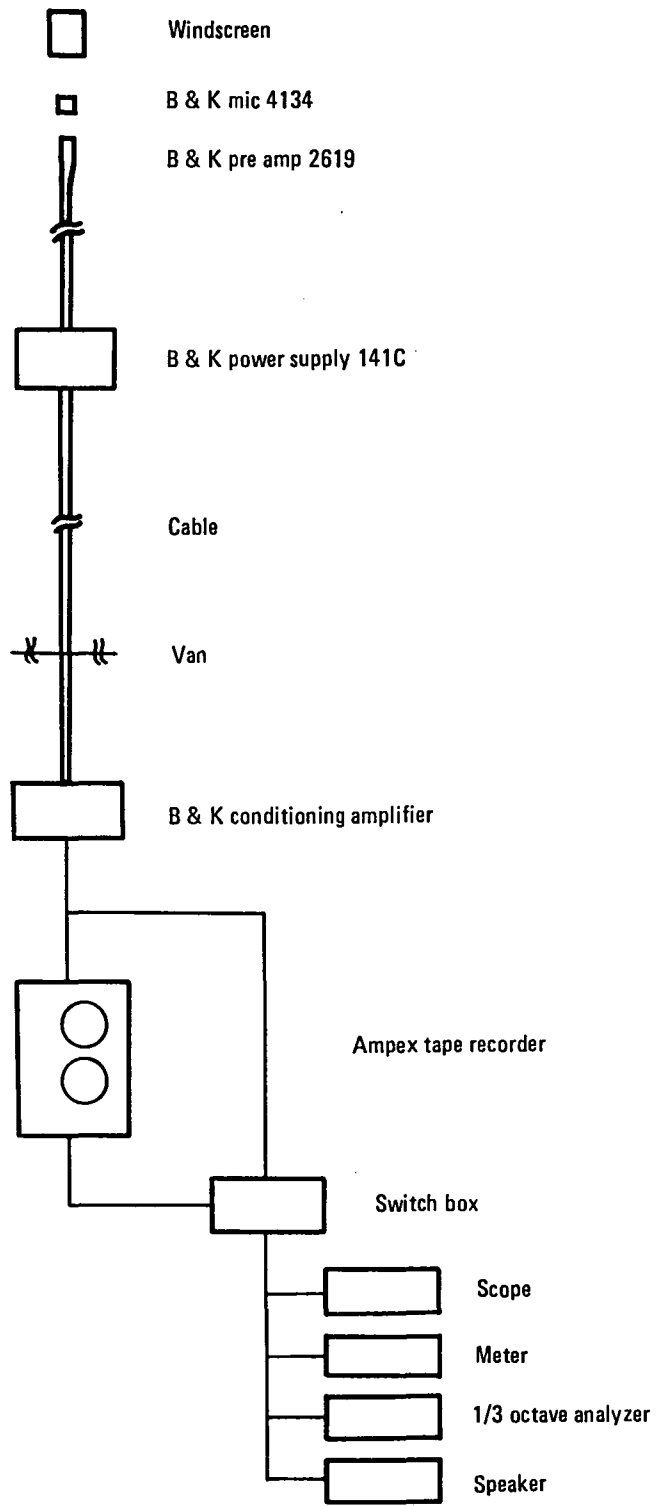


Figure 9. Bruel and Kjaer microphone system.

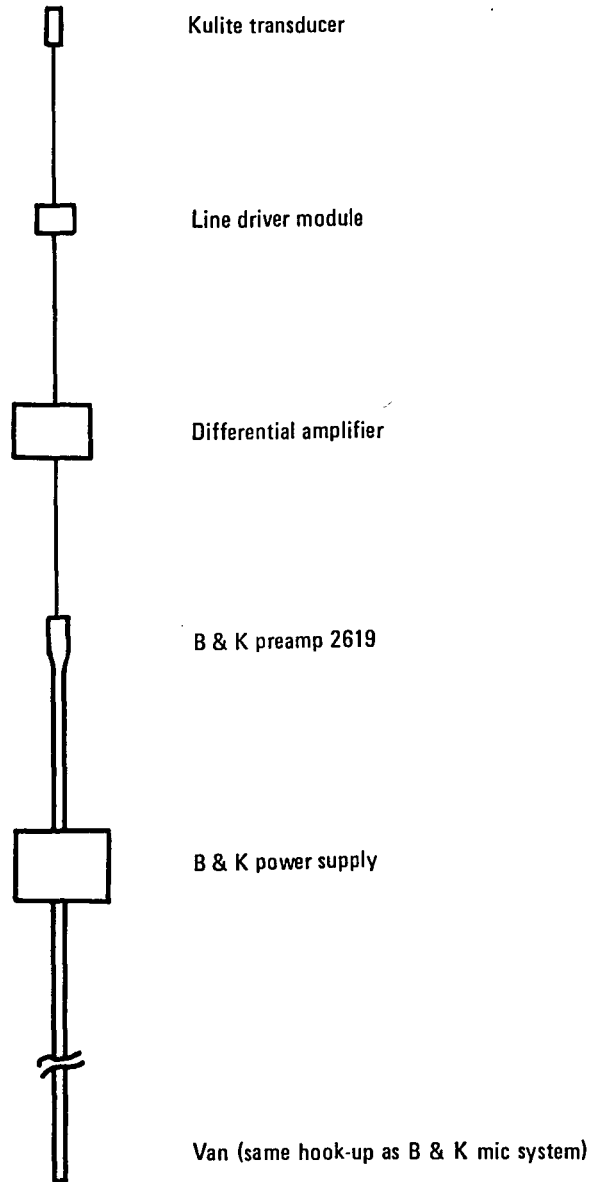


Figure 10. Kulite system.



Figure 11. Test arrangement for bellmouth inlet/J58 engine acoustic tests.

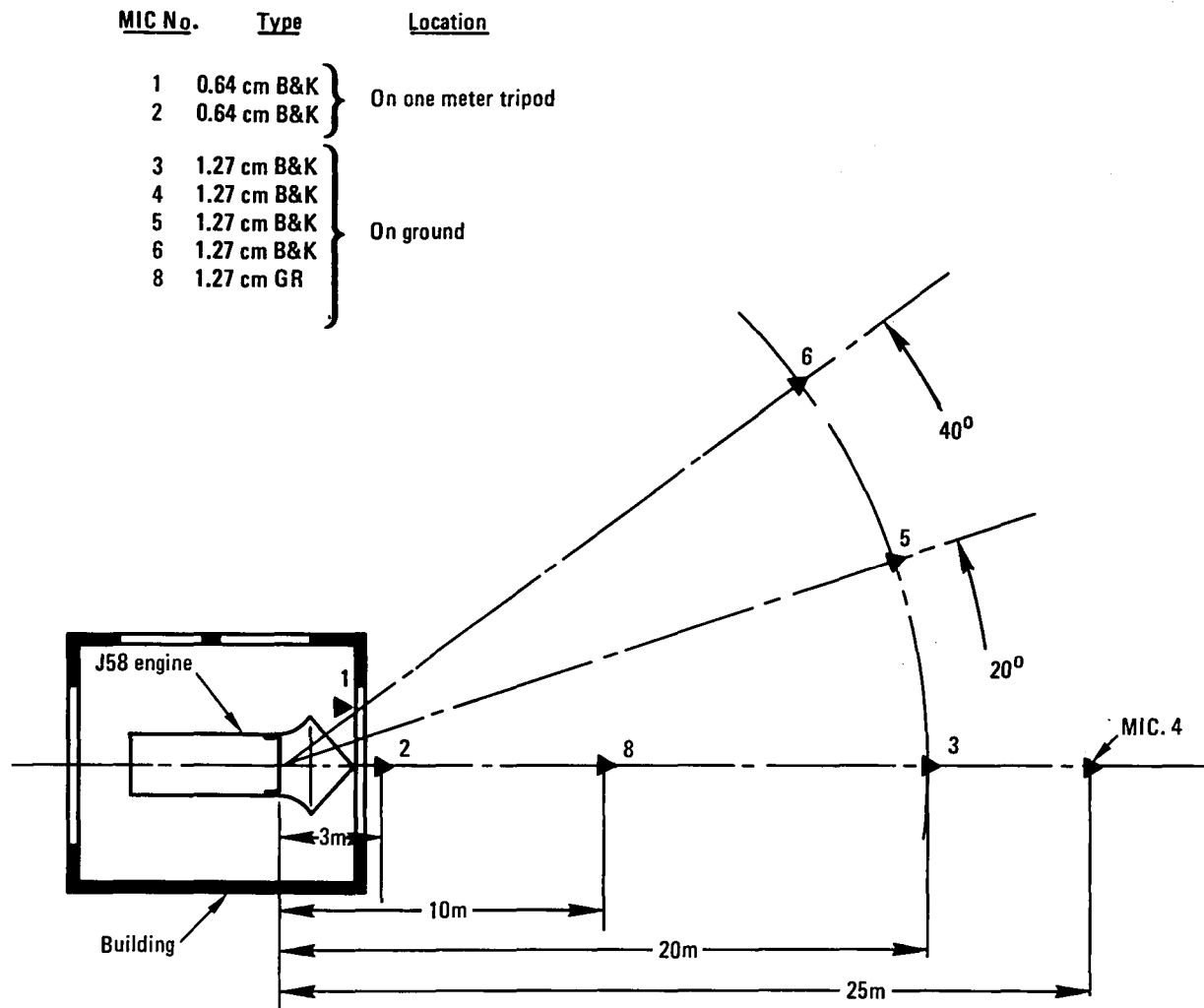


Figure 12. Microphone locations for bellmouth inlet/J58 engine acoustic tests.

TEST CONDITIONS

Test Sites

The aeroacoustic tests with the YF-12 aircraft were conducted at NASA-Dryden Flight Research Center, Edwards, California. The site was a flat concrete taxiway that was free of obstructions. (See figure 1.) Throughout the testing there was negligible wind. The relative humidity varied from 26 to 33 percent. Atmospheric pressure and temperature for each test run are given in Appendix A.

The acoustic tests with the bellmouth inlet/J58 engine were conducted at Beale Air Force Base, California. The site was an engine test cell with a surrounding flat paved surface. This is shown in figure 11. Wind speed was 4 to 5 m/sec, and relative humidity was about 80 per cent. Atmospheric pressure and temperature were 0.995 atm and 282 degrees kelvin, respectively.

Test Variables

In the YF-12 tests, the primary variables were engine speed, spike position, forward bypass opening, and spike bleed opening. The aft bypass was closed and the shock trap tubes had check valves to prevent reverse flow. The engine speed was varied in increments of 200 rpm from 3800 to 5400 rpm, and in increments of 100 rpm from 5400 to 6600 rpm. Only the left engine was run during the tests. The spike was in the forward, midway, or aft position. The forward bypass was either open or closed. On some runs, the spike bleed was closed by taping over the spike bleed perforations from inside the spike.

Each steady-state test run was defined by a single combination of engine speed, spike position, forward bypass opening, and spike bleed opening. A particular test run was performed by first fixing spike position, forward bypass opening, and spike bleed opening. The pilot then adjusted engine speed to the desired value. With engine speed fixed, acoustic and aerodynamic data were recorded for approximately 30 seconds.

There was a total of 198 steady-state test runs. In addition, there were eighteen engine sweeps, in which engine speed was slowly increased from idle to 6600 rpm and then returned to idle. These sweeps were made for all the combinations of spike position, forward bypass opening, and spike bleed opening that were tested at steady-state. Table 2 relates the run numbers and the values of the test variables. The dates of the test runs were as follows:

<u>Ground Run</u>	<u>Date</u>	<u>Run</u>
1	9/12/79	6-34
2	9/13/79	35-86
3	9/20/79	87-144
4	9/21/79	145-216

For the bellmouth inlet/J58 engine tests, the only test variable was engine speed. Table 3 shows the run numbers and the corresponding engine speeds. These tests were performed on March 26, 1980.

TABLE 2. RUN NUMBERS FOR YF-12 AEROACOUSTIC TESTS

ENGINE SPEED (RPM)	SPIKE FORWARD		SPIKE MIDWAY		SPIKE AFT	
	BYPASS OPEN	BYPASS CLOSED	BYPASS OPEN	BYPASS CLOSED	BYPASS OPEN	BYPASS CLOSED
IDLE	35, 145, 187	7, 93	55	70	124	63
4000	30, 36	8, 94				64
4200	37, 146, 188	9, 95, 157	115, 165, 199	71	125, 173, 208	65, 181
4300					126	
4400	38	10, 96			127	66, 182
4500					128	
4600	39, 147, 189	11, 97	116, 200	72	129, 209	183
4700					130	
4800	40	12, 98			131	184
4900					132	
5000	31, 41, 87, 142, 148, 190	13, 99, 158	56, 166, 201	73	133, 174, 210	69, 185
5200	42	15, 100		74		
5400	43, 149, 191	14, 101	117	75	134	
5500	143	16, 102		76		
5600	44, 150, 192	17, 103, 159	57, 167, 202	77	175, 211	
5700	144	18, 104		78		
5800	45, 151, 193	19, 105	118	79	135	
5900	46	20, 106		80		
6000	32, 47, 88, 152, 194	21, 107, 160	58, 168, 203	81	136, 176, 212	
6100	48	22, 108	119	82		
6200	49, 89, 153, 195	23, 109, 161	59, 169, 204	83	137, 177, 213	
6300	50	24, 110	120, 121	84		
6400	51, 90, 154, 196	25, 111, 162	60, 170, 205	85	138, 178, 214	
6500	52	26, 112	122			
6600	33, 53, 91, 155, 197	27, 113, 163	61, 171, 206		139, 140, 179, 215	
SWEEP	29, 54, 92, 156, 198, 34	6, 28, 114, 164	62, 123, 172, 207	86	141, 180, 216	186

- Notes: 1. Runs 145-216, spike bleed taped
 2. Runs 187-216, bypass louvers removed

TABLE 3. RUN NUMBERS FOR BELLMOUTH INLET/J58 ENGINE
ACOUSTIC TESTS AT BEALE AFB

RUN NO.	ENGINE SPEED (RPM)
1	3640
2	4000
3	4200
4	4400
5	4500
6	4600
7	4800
8	5000
9	5200
10	5400
11	5500
12	5600
13	5800
14	6000
15	6100
16	6200

RUN NO.	ENGINE SPEED (RPM)
17	6300
18	6400
19	6500
20	6600
21	6700

DATA REDUCTION

Aerodynamic Data Reduction

The aerodynamic data reduction procedure included computation of the following quantities: static pressures along the cowl and spike; total pressures and Mach numbers at the rakes; Mach number, total pressure recovery, and mass flow at the cowl lip; and Mach numbers and total pressure recovery at the engine face.

The recorded conditions for each inlet configuration and engine speed were: run and tape number, start and stop time, flight date and number, engine speed, spike position, bypass opening, ambient pressure and temperature, relative humidity, and 128 pressures from three scanivalves.

After computing corrected engine speed, the engine corrected airflow ratio was determined from figure 13.

Total pressure ratios, P_T/P_O , and Mach numbers, M , were computed for the rake probes using the following procedure:

Given measured static pressure P and measured pitot pressure P'_T , if $P/P'_T \geq 0.5283$, the flow was subsonic.

Then,

$$P_T/P_O = P'_T/P_O,$$

$$\text{and} \quad M^2 = 5 \left((P/P'_T)^{-2/7} - 1 \right)$$

The ratio of specific heats for air has been taken as 1.4.

If $P/P'_T < 0.5283$, the flow was supersonic. (This case did not occur during the tests.)

Then,

$$P'_T/P = (6M^2/5)^{3.5} (6/(7M^2 - 1))^{2.5}.$$

The solution for M was by iteration. Thus,

$$P'_T/P_T = (6M^2/(M^2 + 5))^{3.5} (6/(7M^2 - 1))^{2.5}.$$

and,

$$P_T/P_O = (P'_T/P)(P/P_O)/(P'_T/P_T)$$

Probe positions are given in tables 4 and 5. The coordinate system for the rake or static pressure tap location is given in figure 14. The positions of the static taps are given in table 6.

Area-weighted engine face total pressure recovery was computed by the following equation:

$$\begin{aligned}
 P_{T_{EF}}/P_o &= \left(\sum_{i=A36}^{E36} (A/A_{EF})_i (P_T/P_o)_i \right) + \left(\sum_{i=A90}^{E90} (A/A_{EF})_i (P_T/P_o)_i \right) \\
 &+ \left(\sum_{i=A144}^{E144} (A/A_{EF})_i (P_T/P_o)_i \right) + \left(\sum_{i=A198}^{E198} (A/A_{EF})_i (P_T/P_o)_i \right) \\
 &+ \left(\sum_{i=A252}^{E252} (A/A_{EF})_i (P_T/P_o)_i \right) + \left(\sum_{i=A324}^{E324} (A/A_{EF})_i (P_T/P_o)_i \right) / 6
 \end{aligned}$$

where $(A/A_{EF})_i$ was determined from the following:

<u>RAKES</u>	<u>PROBE</u>	<u>$(A/A_{EF})_i$</u>
All six engine face rakes	A	0.20036
	B	0.19963
	C	0.19926
	D	0.19954
	E	0.20121

Table 5 and figure 6 give the identification and location of the engine face probes.

Similarly, area-weighted engine face Mach number was computed by:

$$\begin{aligned}
 \bar{M} &= \left(\sum_{i=A36}^{E36} (A/A_{EF})_i M_i \right) + \left(\sum_{i=A90}^{E90} (A/A_{EF})_i M_i \right) + \left(\sum_{i=A144}^{E144} (A/A_{EF})_i M_i \right) \\
 &+ \left(\sum_{i=A198}^{E198} (A/A_{EF})_i M_i \right) + \left(\sum_{i=A252}^{E252} (A/A_{EF})_i M_i \right) + \left(\sum_{i=A324}^{E324} (A/A_{EF})_i M_i \right) / 6
 \end{aligned}$$

Engine face distortion was given by:

$$\Delta P_{T_{EF}}/P_{T_{EF}} = ((P_T/P_o)_{\max} - (P_T/P_o)_{\min}) / (P_{T_{EF}}/P_o)$$

where $(P_T/P_o)_{\max}$ and $(P_T/P_o)_{\min}$ are the maximum and minimum values, respectively, of the engine face total pressure ratios.

The following equation gave M_{EF} :

$$(W \theta^{0.5} / \delta)_{EF} / A_C (A_C / A_{EF}) = P_{STD} g (1.4 / RT_{STD})^{0.5} M_{EF} (1 + M_{EF}^2 / 5)^{-3}$$

where $A_C / A_{EF} = 2.277$.

Then,

$$q_{EF} = 0.7 M_{EF}^2 (1 + M_{EF}^2 / 5)^{-7/2} (P_{T_{EF}} / P_o) P_o$$

The circumferential distortion, K_θ , was defined by:

$$K_\theta = \left(\sum_{i=1}^5 K_{\theta_i} / (r_i / r_c) \right) / \left(\sum_{i=1}^5 1 / (r_i / r_c) \right)$$

where

$$K_{\theta_i} = (A_i^2 + B_i^2)^{0.5} / q_{EF}$$

$$A_i = \left(\sum_{j=1}^6 P_{T_{i,j}} \Delta \theta_j \cos \theta_j \right) / 180$$

$$B_i = \left(\sum_{j=1}^6 P_{T_{i,j}} \Delta \theta_j \sin \theta_j \right) / 180$$

$$\Delta \theta_j = (\theta_{j+1} - \theta_{j-1}) / 2$$

The preceding coefficients are, in degrees:

$\Delta \theta_1 \cos \theta_1 = 50.968$	$\Delta \theta_1 \sin \theta_1 = 37.031$
$\Delta \theta_2 \cos \theta_2 = 0$	$\Delta \theta_2 \sin \theta_2 = 54.000$
$\Delta \theta_3 \cos \theta_3 = -43.687$	$\Delta \theta_3 \sin \theta_3 = 31.741$
$\Delta \theta_4 \cos \theta_4 = -51.357$	$\Delta \theta_4 \sin \theta_4 = -16.687$
$\Delta \theta_5 \cos \theta_5 = -19.468$	$\Delta \theta_5 \sin \theta_5 = -59.917$
$\Delta \theta_6 \cos \theta_6 = 58.249$	$\Delta \theta_6 \sin \theta_6 = -42.321$

Table 7 and figure 6 give the definition of the engine face probe matrix. The five rings of probes and six rakes were designated by subscripts i and j, respectively.

K_{θ_R} is the value of K_{θ} at $P_{T_{i,j}} = P_{T_{EF}}$

Then,

$$\Delta K_{\theta} = K_{\theta} - K_{\theta_R}$$

Radial Distortion, K_r , was defined by:

$$K_r = \left(\sum_{i=1}^5 K_{r_i} / (r_i/r_c)^{2.8} \right) / \left(\sum_{i=1}^5 1 / (r_i/r_c)^{2.8} \right)$$

where,

$$K_{r_i} = |P_{T_{EF}} - \overline{P_{T_i}}| / q_{EF}$$

and,

$$\overline{P_{T_i}} = \left(\sum_{j=1}^6 P_{T_{i,j}} \right) / 6$$

and,

$$P_{T_{EF}} = (P_{T_{EF}} / P_o) P_o$$

The combined distortion, K_a , was:

$$K_a = \Delta K_{\theta} + K_r$$

The cowl mass flow ratio was computed using Rakes 1 and 3. Constant total temperature, constant static pressure for a given rake, and axially symmetric flow were assumed.

$$m_{CL} / m_r^* = (W_{CL,R3}/A_C + W_{CL,R1}/A_C) (\theta^{0.5} / \delta)_{EF} (P_{T_{EF}} / P_o) / ((W \theta^{0.5} / \delta A)_T^* (A_T / A_C))$$

where

$$W_{CL,R3}/A_C = 0.5 \sum_{i=1}^{16} ((W/A)_{i-1} + (W/A)_i)_{R3} \Delta A_{i-1,i}/A_C$$

$$W_{CL,R1}/A_C = 0.5 \sum_{i=1}^{6.6} ((W/A)_{i-1} + (W/A)_i)_{R1} \Delta A_{i-1,i}/A_C$$

$$(W/A)_0 = 0$$

For the *i*th probe

$$(W/A)_i = g(1.4/RT_o)^{0.5} M_i (1 + M_i^2/5)^{-3} P_{T_i}$$

$\Delta A_{i-1,i}/A_C$ is given by table 8. A_T/A_C is from the table below.

SPIKE POSITION	SPIKE TRANSLATION X/r_c	THROAT TO CAPTURE AREA RATIO - A_T/A_C
FORWARD	0.862	0.41
MIDWAY	0.431	0.33
AFT	0.0	0.23

The average total pressure recovery, $P_{T_{CL}}/P_o$, and Mach number, M_{CL} , at cowl lip rake stations R_1 and R_3 were computed next.

First, the total flow rate at the cowl lip was given by:

$$W_{CL}/A_C = W_{CL,R3}/A_C + W_{CL,R1}/A_C$$

Also, the static pressure at the cowl lip was assumed to be the average of S2 and S14. Thus,

$$P_{CL}/P_o = 0.5 ((P/P_o)_{S2} + (P/P_o)_{S14})$$

M_{CL} was then calculated from the following form of the continuity equation:

$$(W_{CL}/A_C) (A_C/A_{CL}) = g (1.4/RT_o)^{0.5} (P_{CL}/P_o) P_o M_{CL} (1 + M_{CL}^2/5)^{0.5}$$

where A_{CL}/A_C is 0.4224. Then, with M_{CL} known:

$$P_{T_{CL}}/P_o = (1 + M_{CL}^2/5)^{3.5} (P_{CL}/P_o)$$

Engine and additive mass flow ratios were:

$$m_{ENG}/m_T^* = ((W\theta^{0.5}/\delta)_{EF}/A_C) (P_{T_{EF}}/P_o) / ((W\theta^{0.5}/\delta A)_T^* (A_T/A_C))$$

$$m_{ADD}/m_T^* = m_{ENG}/m_T^* - m_{CL}/m_T^*$$

To obtain an approximate Mach number at the cowl lip, while excluding the lip separated flow, the average Mach number at Rake R1 was computed using:

$$\bar{P}_{T,R1} = \frac{P_9}{\sum_{P1} P_{T,R1,Pi}} / 9$$

$$\bar{M}_{R1}^2 = 5 ((\bar{P}_{T,R1}/P_{S2})^{2/7} - 1)$$

Rake R1 was outside the separated flow region. Similarly, an approximate Mach number at the cowl bleed slot station was computed using Rakes R2 and R4:

$$\bar{P}_S = (P_{S20} + P_{S9})/2$$

$$\bar{P}_{T,R2,R4} = (\sum_{P1}^{P5} P_{T,R2,Pi} + \sum_{P1}^{P12} P_{T,R4,Pi}) / 17$$

$$\bar{M}_{R2,R4}^2 = 5 ((\bar{P}_{T,R2,R4}/\bar{P}_S)^{2/7} - 1)$$

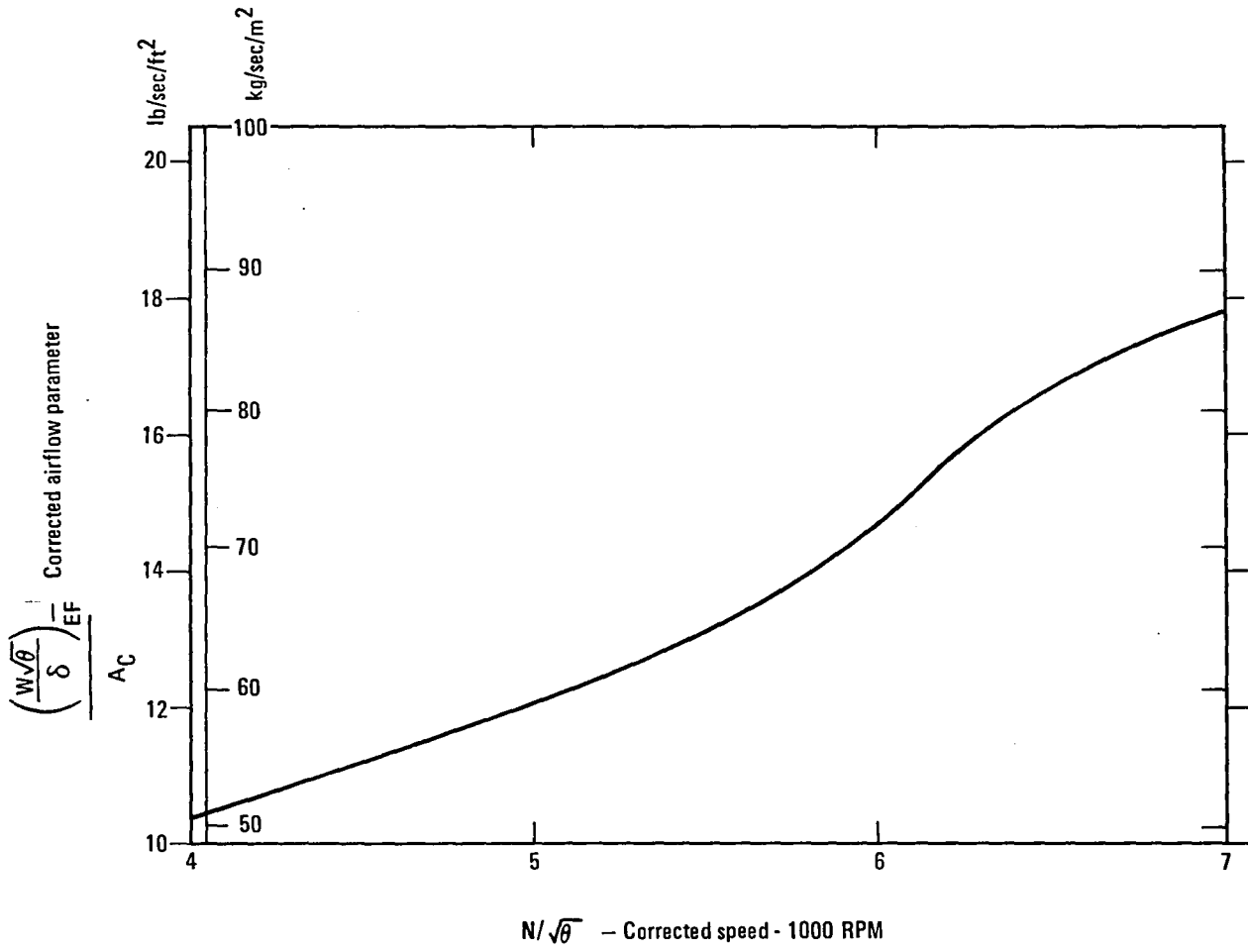
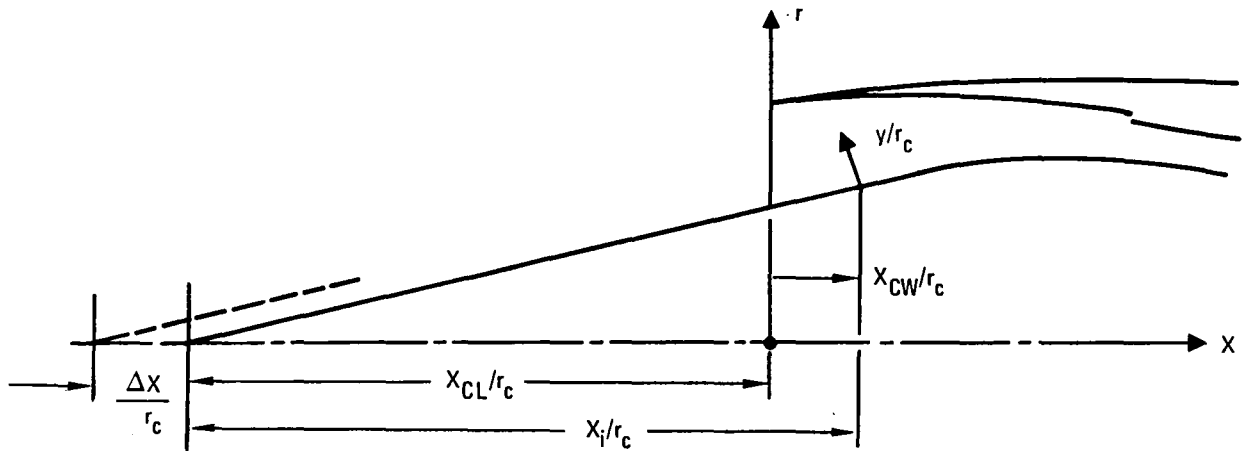


Figure 13. Engine corrected air flow rate parameter.



X_i/r_c Distance ratio from spike tip to rake or tap on spike

X_{CL}/r_c Distance ratio from spike tip to cowl lip

X_{CW}/r_c Distance ratio from cowl lip to rake or tap on spike

$\Delta X/r_c$ Distance ratio spike is translated forward from design position

y/r_c Normal distance ratio of rake probes from spike surface

Figure 14. Coordinate system for rake or static pressure tap location.

TABLE 4. RAKE INSTRUMENTATION

RAKE	STATIC P	PITOT P' _T	PROBE POSITION $\sim \frac{x_{cw}}{r_c}$	PROBE HEIGHT $\sim \frac{y}{r_c}$
R1	S2	R1P1	3.340 - (2.409 + $\Delta x/r_c$)	0.01021
		R1P2		0.01362
		R1P3		0.01702
		R1P4		0.02042
		R1P5		0.03064
		R1P6		0.04459
		R1P7		0.06910
		R1P8		0.10961
		R1P9		0.14501
R3	S14	R3P1	0.07	0.01021
		R3P2		0.01702
		R3P3		0.02723
		R3P4		0.03438
		R3P5		0.04493
		R3P6		0.05174
		R3P7		0.06195
		R3P8		0.06876
		R3P9		0.07761
		R3P10		0.08578
		R3P11		0.09463
		R3P12		0.10314
		R3P13		0.12084
		R3P14		0.13786
		R3P15		0.15488
		R3P16		0.17292
R2	S9	R2P1	4.735 - (2.409 + $\Delta x/r_c$)	0.01055
		R2P2		0.05549
		R2P3		0.10621
		R2P4		0.16271
		R2P5		0.21411
R4	S20	R4P1	1.538	0.01021
		R4P2		0.01702
		R4P3		0.02723
		R4P4		0.03438
		R4P5		0.04493
		R4P6		0.05174
		R4P7		0.06195
		R4P8		0.06876
		R4P9		0.07761
		R4P10		0.08578
		R4P11		0.09463
		R4P12		0.10314
R6	S24	R6P1	3.504	0.00340
		R6P2		0.00681
		R6P3		0.01021
		R6P4		0.01362
		R6P5		0.01702
		R6P6		-
		R6P7		-
		R6P8		0.0514
		R6P9		0.06842
		R6P10		0.08578
		R6P11		0.1205
		R6P12		0.1724

TABLE 4. RAKE INSTRUMENTATION (Continued)

RAKE	STATIC P	PITOT P_T	PROBE POSITION $\sim \frac{x_{cw}}{r_c}$	PROBE HEIGHT $\sim \frac{y}{r_c}$
R5	S23	R5P1 R5P2 R5P3 R5P4 R5P5 R5P6 R5P7 R5P8 R5P9 R5P10 R5P11	3.327	0.00885 0.013616 0.017361 0.02451 0.031317 0.044933 0.06978 0.110631 0.144671 0.17905 0.227729

TABLE 5. ENGINE FACE INSTRUMENTATION

RAKE	STATIC P	PITOT - P_T'	PROBE POSITION $\sim \frac{x_{CW}}{r_c}$	PROBE DISTANCE FROM CENTER $\sim \frac{r}{r_c}$
R36	(S26 + S27)/2	A36	5.483	0.38193
		B36		0.48337
		C36		0.56677
		D36		0.63928
		E36		0.70463
R90		A90		0.38193
		B90		0.48337
		C90		0.56677
		D90		0.63928
		E90		0.70463
R144		A144		0.38193
		B144		0.48337
		C144		0.56677
		D144*		0.63928
		E144		0.70463
R198		A198		0.38193
		B198		0.48337
		C198		0.56677
		D198		0.63928
		E198		0.70463
R252		A252		0.38193
		B252		0.48337
		C252		0.56677
		D252		0.63928
		E252		0.70463
R324		A324		0.38193
		B324		0.48337
		C324		0.56677
		D324		0.63928
		E324		0.70463

*For D144 Let

$$(P_T')_{D144} = ((P_T')_{C144} + (P_T')_{E144}) / 2$$

TABLE 6. STATIC PRESSURE INSTRUMENTATION

SURFACE	TAP NO.	POSITION x_{cw}/r_c	ANGLE - θ_i DEGREES
SPIKE	S1	$3.191 - (2.409 + \Delta x/r_c)$	13
	S2	$3.340 - (2.409 + \Delta x/r_c)$	22
	S11	$3.340 - (2.409 + \Delta x/r_c)$	112
	S12	$3.340 - (2.409 + \Delta x/r_c)$	202
	S13	$3.340 - (2.409 + \Delta x/r_c)$	292
	S3	$3.408 - (2.409 + \Delta x/r_c)$	0
	S4	$3.674 - (2.409 + \Delta x/r_c)$	3.74
	S5	$3.910 - (2.409 + \Delta x/r_c)$	0
	S6	$4.157 - (2.409 + \Delta x/r_c)$	2.3
	S7	$4.285 - (2.409 + \Delta x/r_c)$	0
	S8	$4.417 - (2.409 + \Delta x/r_c)$	0
	S9	$4.780 - (2.409 + \Delta x/r_c)$	19.7
	S10	$5.116 - (2.409 + \Delta x/r_c)$	1.02
	S24	3.504	-
	S28	$3.910 - (2.409 + \Delta x/r_c)$	-
	COWL	S27	5.300
S14		0.034	66.4
S15		0.186	66.4
S16		0.415	65.9
S17		0.847	65.9
S25		0.847	39.3
S18		1.174	65.9
S19		1.459	32.8
S20		1.540	31.7
S21		1.827	13.1
S22		2.784	-
S23	3.298	-	
S26	5.289	-	

TABLE 7. ENGINE FACE PROBE MATRIX

j-Rake	i-Probe	θ_j Deg	r_i/r_c	P_T	$PT_{i,j}$ DISTORTION
1	1	36	0.38193	A36	1,1
1	2	36	0.48337	B36	2,1
1	3	36	0.56677	C36	3,1
1	4	36	0.63928	D36	4,1
1	5	36	0.70463	E36	5,1
2	1	90	0.38193	A90	1,2
2	2	90	0.48337	B90	2,2
2	3	90	0.56677	C90	3,2
2	4	90	0.63928	D90	4,2
2	5	90	0.70463	E90	5,2
3	1	144	0.38193	A144	1,3
3	2	144	0.48337	B144	2,3
3	3	144	0.56677	C144	3,3
3	4	144	0.63928	D144	4,3
3	5	144	0.70463	E144	5,3
4	1	198	0.38193	A198	1,4
4	2	198	0.48337	B198	2,4
4	3	198	0.56677	C198	3,4
4	4	198	0.63928	D198	4,4
4	5	198	0.70463	E198	5,4
5	1	252	0.38193	A252	1,5
5	2	252	0.48337	B252	2,5
5	3	252	0.56677	C252	3,5
5	4	252	0.63928	D252	4,5
5	5	252	0.70463	E252	5,5
6	1	324	0.38193	A324	1,6
6	2	324	0.48337	B324	2,6
6	3	324	0.56677	C324	3,6
6	4	324	0.63928	D324	4,6
6	5	324	0.70463	E324	5,6

TABLE 8. COWL LIP RAKE AREA ELEMENTS

RAKE	PROBE NO.	RADIUS r/r_c	AREA INCREMENT $\Delta A_{i-1,i}/A_c$
3	0	1.00	
	R3P1	0.9898	0.02029
	2	0.98298	0.01345
	3	0.97277	0.019968
	4	0.9656	0.013898
	5	0.9551	0.020167
	6	0.94826	0.013019
	7	0.93805	0.019259
	8	0.93124	0.012730
	9	0.92239	0.016405
	10	0.91422	0.015005
	11	0.90537	0.01610
	12	0.90537	0.015337
	13	0.89686	0.031436
	14	0.87916	0.029637
	15	0.86214	0.029058
	1	16	0.84512
R1P7		0.82708	
R1P6.6*		0.82708	0.037082
6		0.80435	0.022191
5		0.79097	0.015959
4		0.78031	0.005263
3		0.77693	0.005241
2		0.77355	0.005249
1		0.77015	
0		0.76	0.01562

* Interpolate for $P_{T6.6}$ and $M_{6.6}$

Acoustic Data Reduction

The acoustic data analysis system is shown in figure 15. Recorded data were played through the data analysis system and stored in the Data Central computer complex. The data were then fed into a Hewlett-Packard 8054A One-Third Octave Analyser which had an interface with the computer. The daily calibration for each system was transferred to the computer along with the data for that day, and both stored on digital tape for later processing. The corrections made to the data were gain changes, system frequency response corrections, and free-field corrections.

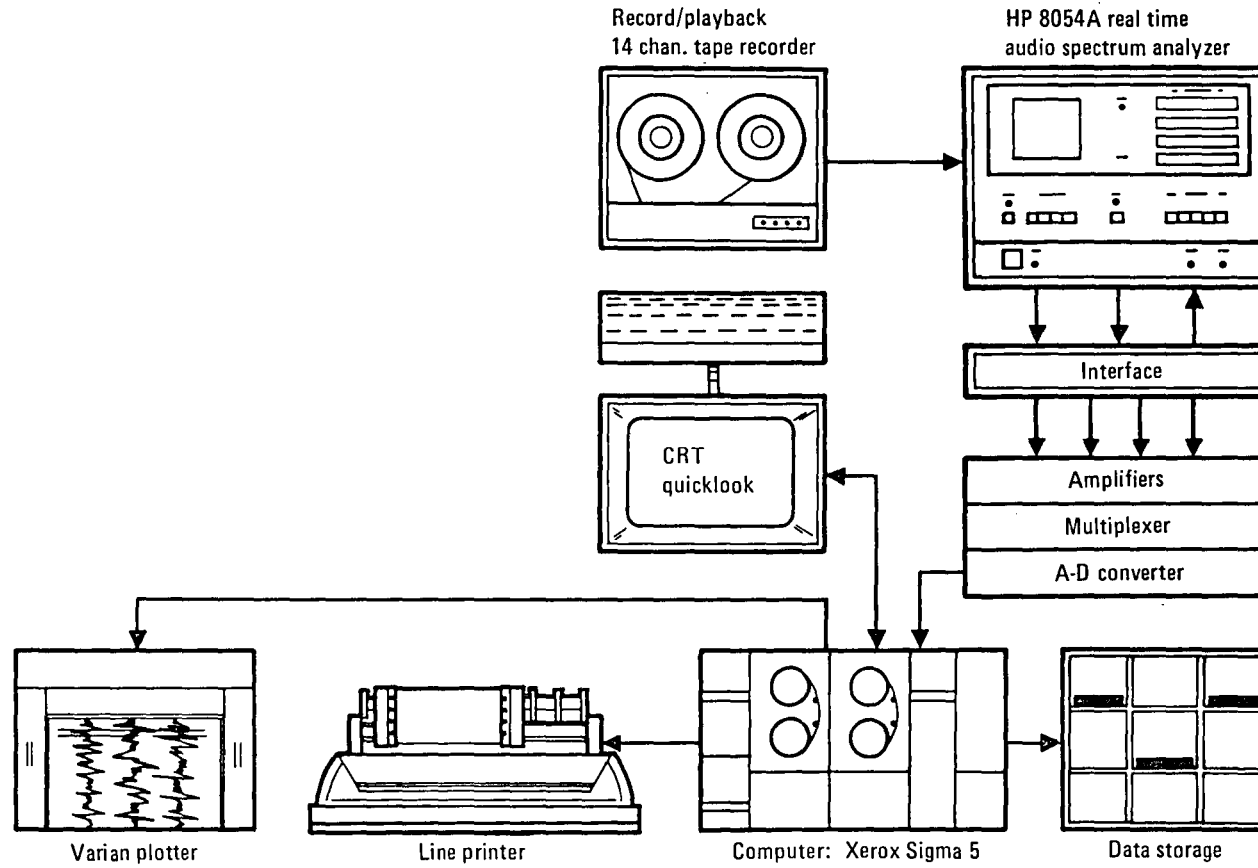


Figure 15. Schematic of acoustic data analysis system.

TEST RESULTS

Inlet Aerodynamic Behavior

Inlet aerodynamic characteristics in terms of engine face total pressure recovery, distortion, engine face Mach number, cowl lip total pressure recovery, cowl lip Mach number, and cowl lip mass flow ratio, are presented as functions of engine face mass flow ratio in figures 16 through 23 for the various test configurations. The engine mass flow ratios as functions of corrected engine speed are given in figure 24 for the three spike positions.

The effect of bypass position on inlet performance, given in figure 16 for spike forward and spike bleed open, shows that closing the bypass caused the engine face total pressure recovery, distortion, and cowl lip pressure recovery to decrease, and the cowl lip Mach number and cowl lip mass flow ratio to increase. These trends were expected, since closing the bypass caused more flow to pass through the inlet at the cowl lip where large lip losses occurred. The engine face Mach number increased from 0.2 to 0.5 as the engine mass flow ratio increased from 0.5 to 0.76.

Similar results were found for spike midway and spike bleed open, as shown in figure 17, except for engine total face pressure recovery. There was essentially no effect of bypass position on engine face total pressure recovery.

The effect of spike position on inlet characteristics is given in figure 18 for bypass open and spike bleed open. The engine face mass flow ratio was based on inlet throat area, which changed with spike position. The engine face total pressure recovery increased and the distortion decreased as the spike was translated from the forward to the aft position. This trend was expected since the Mach number at the cowl lip and the lip losses decreased as the spike was translated aft.

Similar results are given in figure 19 for the bypass closed and the spike bleed open.

The effect of closing the spike bleed on inlet conditions at the engine face was generally small. (See figures 20 through 23.) The cowl lip losses and cowl lip Mach number increased when the spike bleed was closed, however. This effect was greater when the bypass was also closed (figure 21).

Closing the bypass caused the Mach numbers near the cowl lip station and near the shock trap station to increase for spike forward. Also, closing the spike bleed caused the Mach numbers near the cowl lip to increase and Mach numbers near the shock trap to decrease for spike forward. This is shown in figure 25 where average Mach numbers from Rake R1 and average Mach numbers from Rakes R2 and R4 are given as functions of corrected engine speed. Rake R3 at the cowl lip station was not used because the flow was separated in this region. The trends are reasonable since closing the bypass or spike bleed forced more mass flow (higher Mach number) through the inlet at the cowl lip station. Furthermore, closing the spike bleed should have reduced the total mass flow (lower Mach number) passing through the inlet near the shock trap.

The effect of engine speed on inlet pressure distributions and rake Mach number profiles is presented in figure 26 for the spike forward, the bypass open, and the spike bleed open. Cowl and spike pressure distributions and Mach number profiles are given in parts (a), (b), and (c), respectively, of figure 26. Results show that the static pressures decreased and the Mach numbers increased with increases in engine speed. Separation at the cowl lip was evident by the low Mach numbers at the lip. The low Mach numbers just downstream of the spike bleed were apparently due to the low energy air that passed into the inlet through the spike bleed perforations.

The abrupt change in Mach numbers at the rake stations was due to using different wall static pressures for computing the Mach numbers. The static pressure S20 was used to compute Mach numbers on R4, while S9 was used for R2. Also, S14 was used to compute Mach numbers on R3, and S2 was used for R1. The low static pressure values at S20 are believed to have been caused by its close proximity to the shock trap lip. This low pressure did not persist across the flow passage, as can be seen by comparison of cowl and spike static pressure distributions. Thus, the computed Mach numbers on R4 are probably over-estimates.

The effect of bypass on inlet pressure distributions and rake Mach number profiles is given in figures 27 and 28 for spike forward, spike bleed open, and 6000 and 6600 rpm, respectively. Closing the bypass resulted in lowering the static pressure in the inlet and, in general, increasing the Mach numbers upstream of the bypass.

The effect of spike position on static pressure distributions and Mach number profiles is given in figure 29 for bypass open, spike bleed open, and 6000 rpm. As the spike was translated aft, the Mach number in the inlet throat region (Rakes 2 and 4) increased. In general, the pressures increased upstream of the shock trap and decreased downstream of the shock trap. The static pressures downstream of the shock trap were significantly lower for spike aft than for spike forward and midway, particularly at station 2.78 on the cowl. This was consistent with the presence of the bypass and with the change in inlet area distribution with spike position. The Mach number profiles at the engine face were essentially independent of spike position.

The effect of spike bleed closure on pressure distributions and Mach number profiles is given in figures 30 and 31 for spike forward, 6000 rpm, and bypass open and closed, respectively. Static pressures near the cowl lip were lower with the spike bleed closed, as more air was forced to enter the inlet past the cowl lip. This is also apparent from the Mach number profiles on R1 and R3. There was a large effect near the shock trap, where the Mach number profiles on R2 were more fully developed with the spike bleed closed. This suggests that the inward flow through the spike bleed was low energy flow. All of the effects of spike bleed closure were much greater with the bypass closed, because then the only paths for the engine air flow (other than leakage) were past the cowl lip and in through the spike bleed.

Appendix A contains tabulations of all the reduced pressure data and the inlet performance parameters.

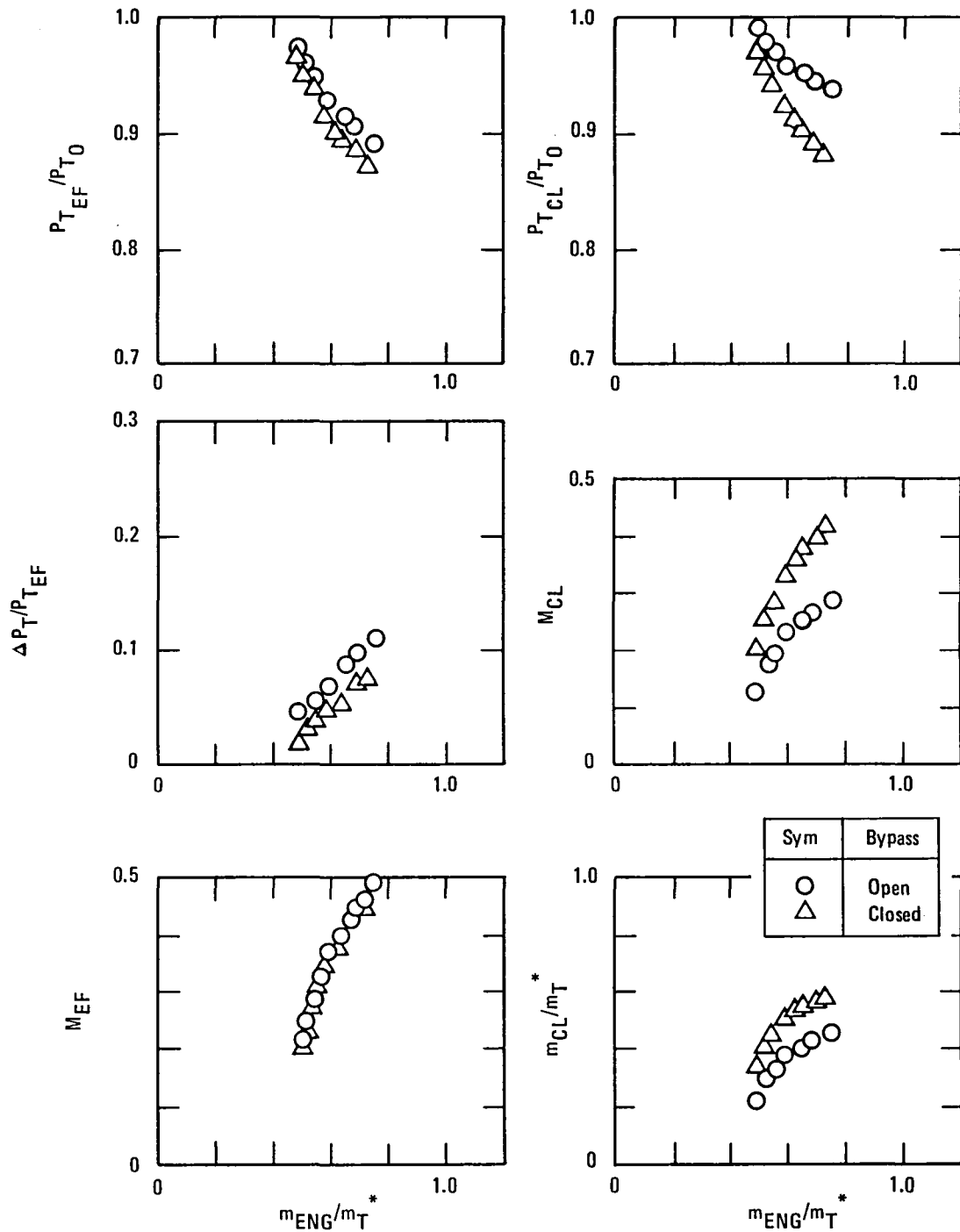


Figure 16. Effect of bypass position on inlet performance: spike forward and spike bleed open.

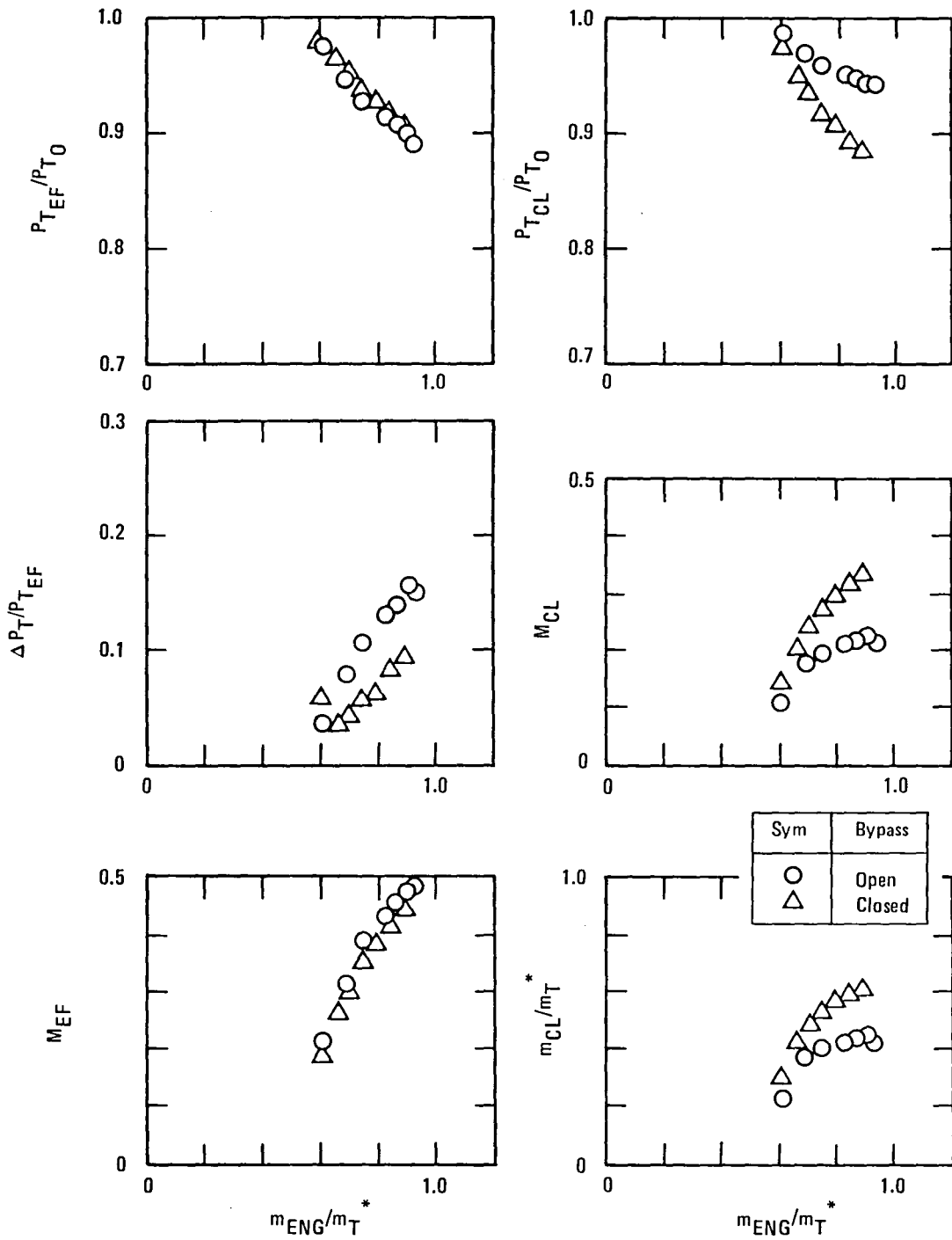


Figure 17. Effect of bypass position on inlet performance: spike midway and spike bleed open.

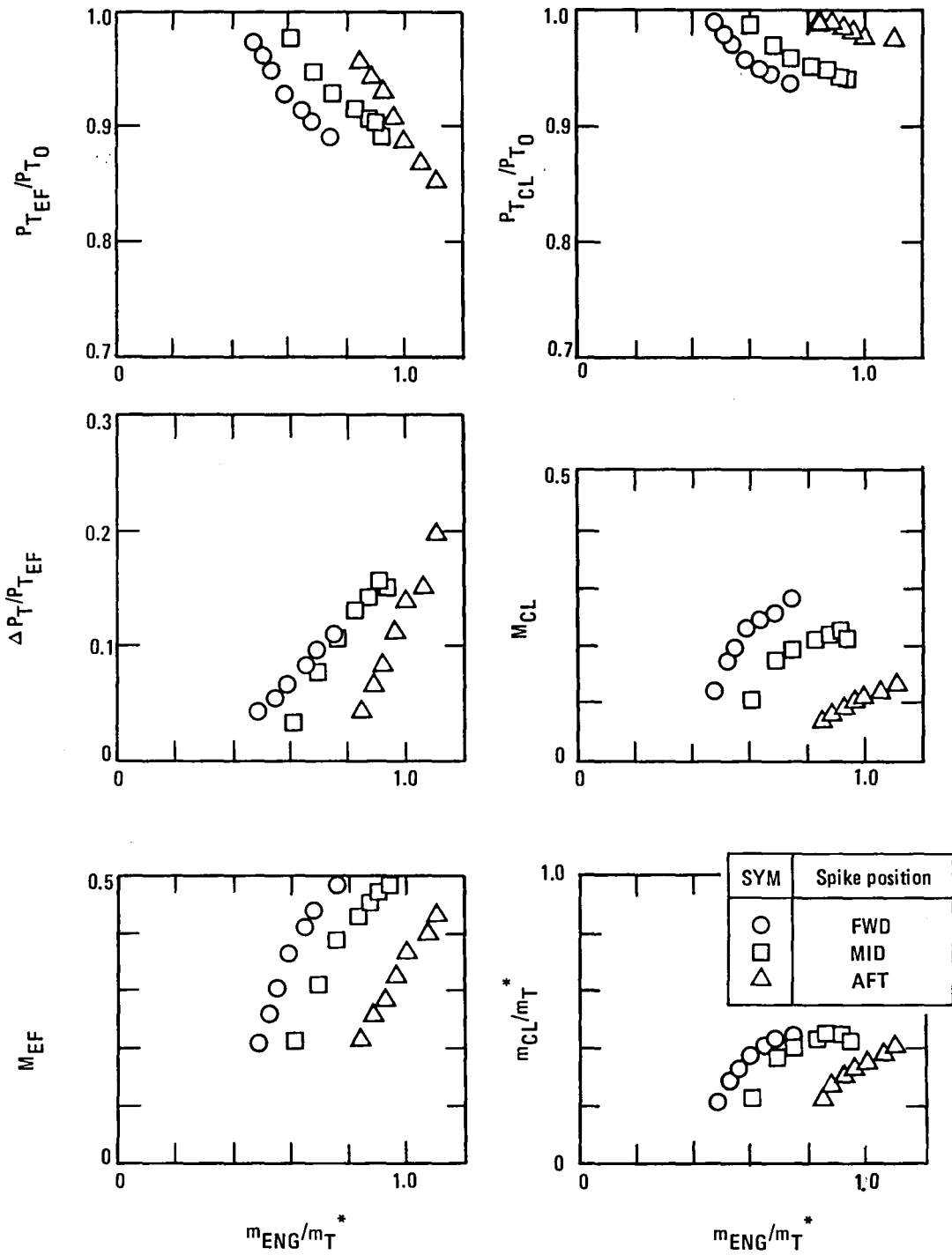


Figure 18. Effect of spike position on inlet performance: bypass open and spike bleed open.

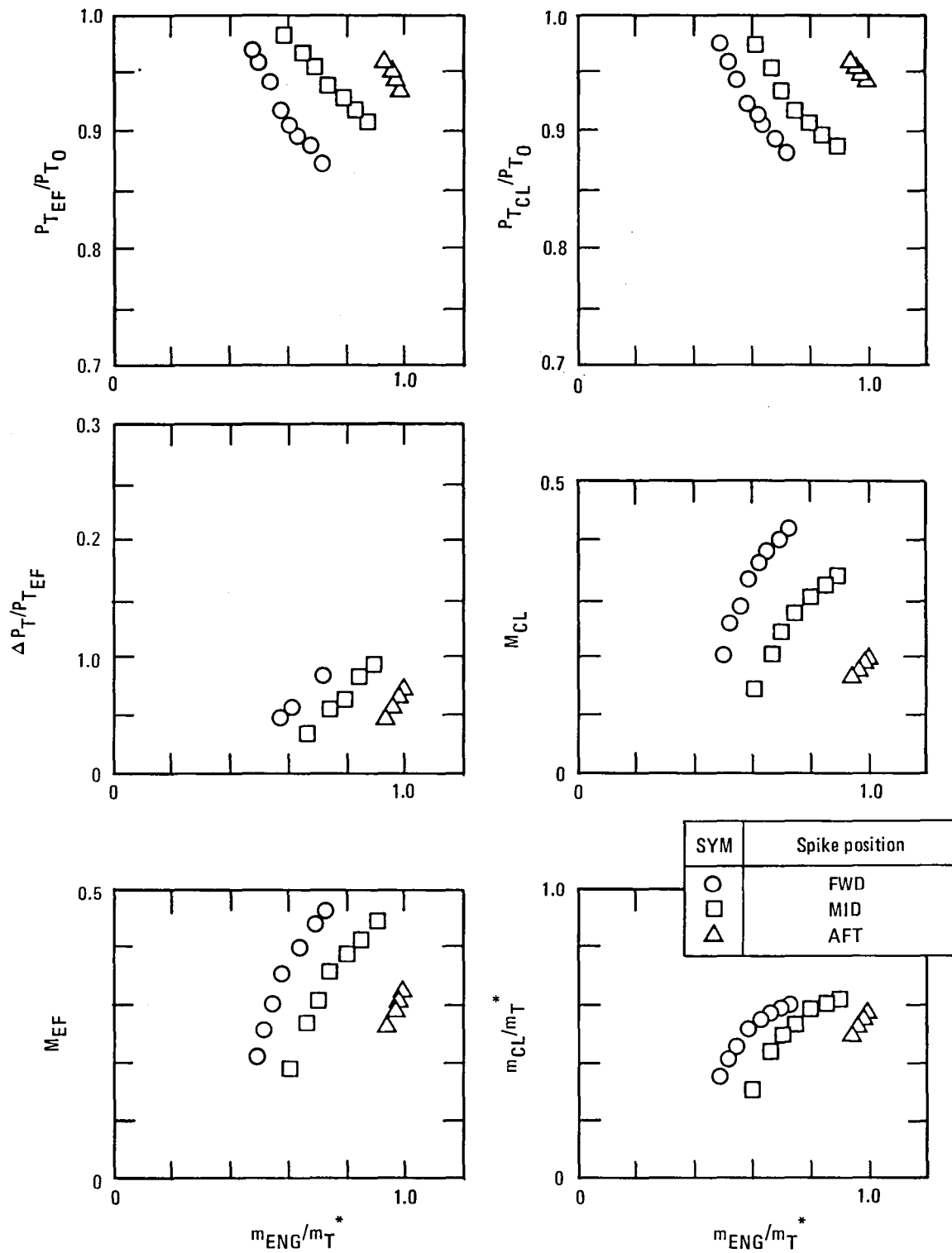


Figure 19. Effect of spike position on inlet performance: bypass closed and spike bleed open.

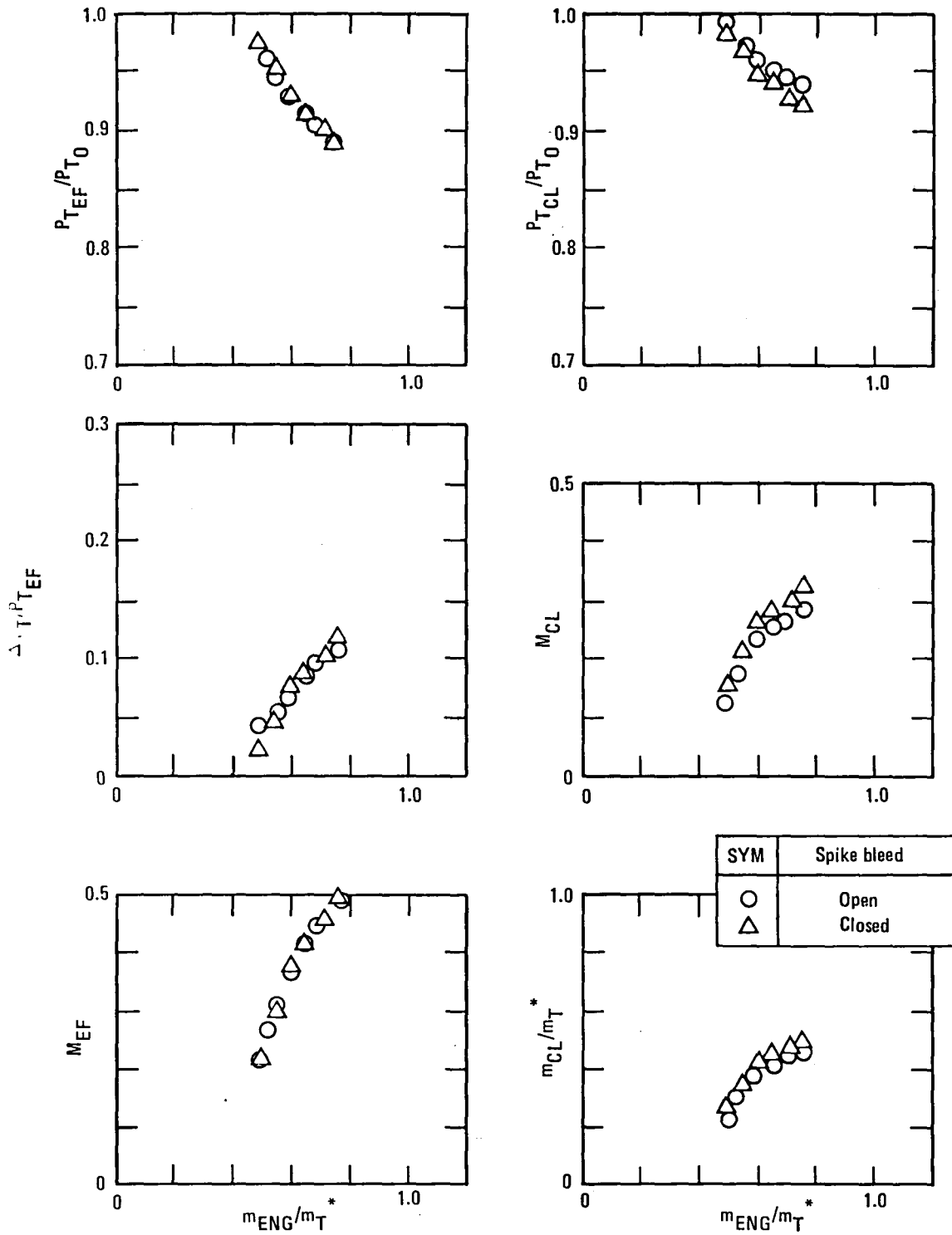


Figure 20. Effect of spike bleed on inlet performance: spike forward and bypass open.

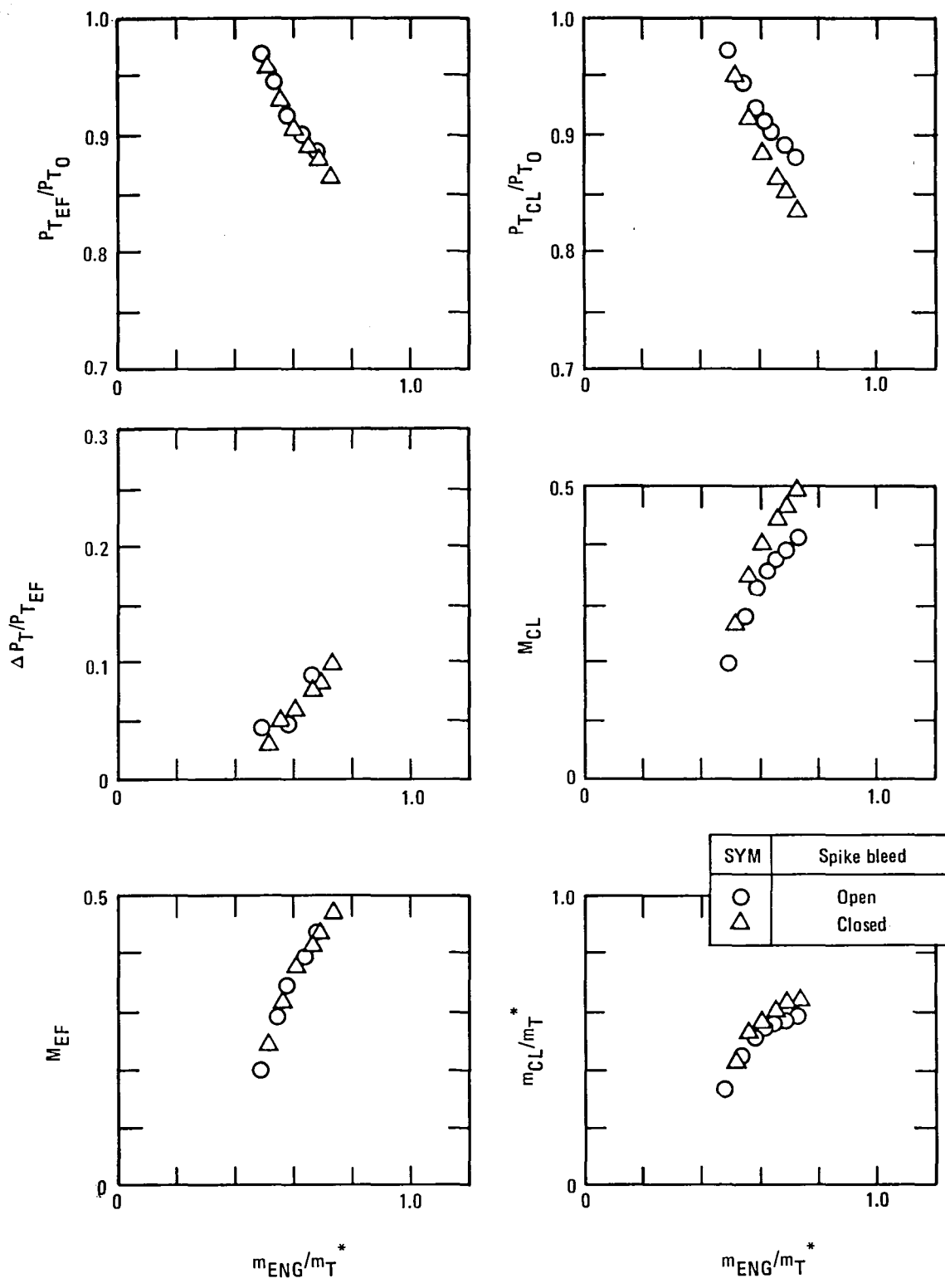


Figure 21. Effect of spike bleed on inlet performance: spike forward and bypass closed.

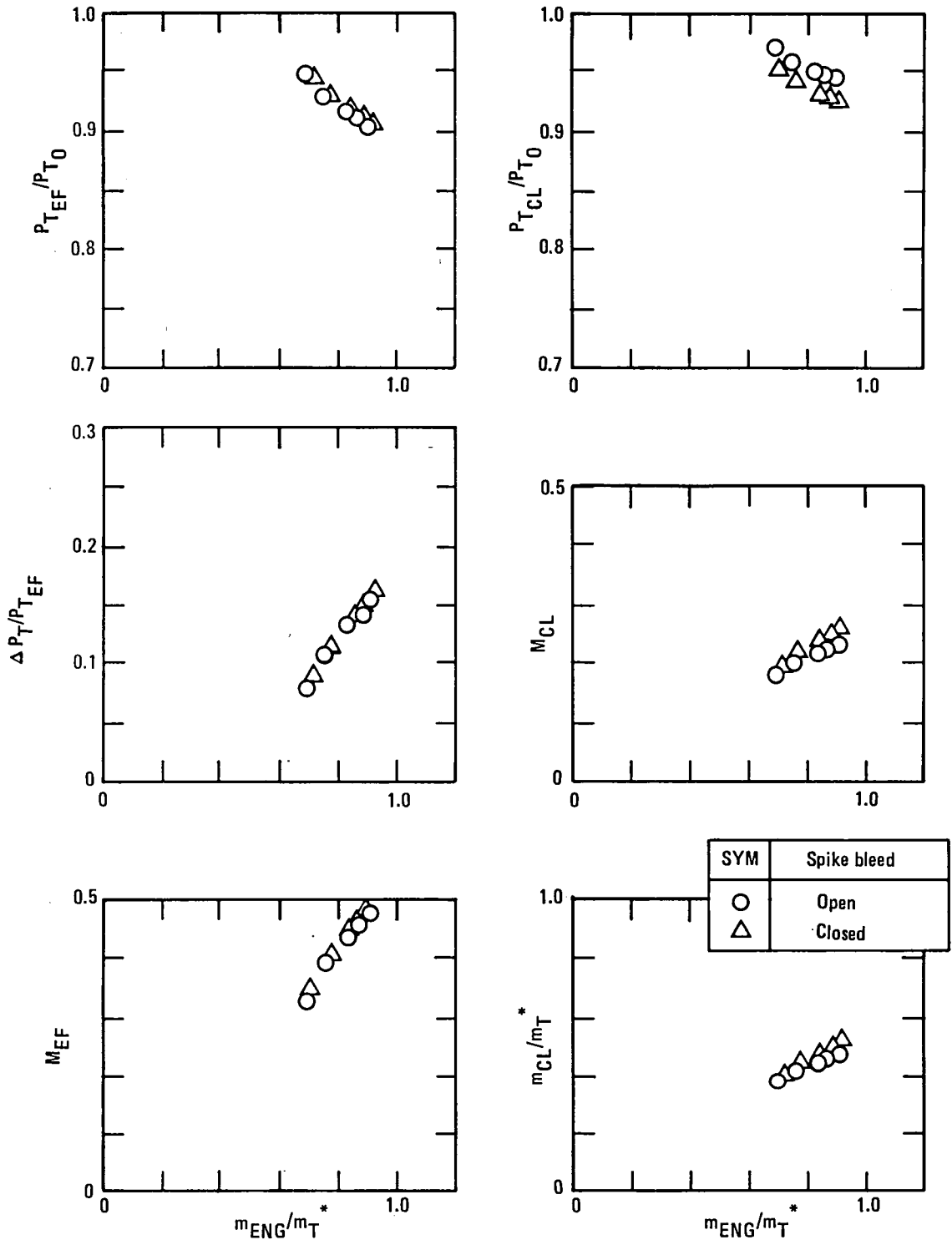


Figure 22. Effect of spike bleed on inlet performance: spike midway and bypass open.

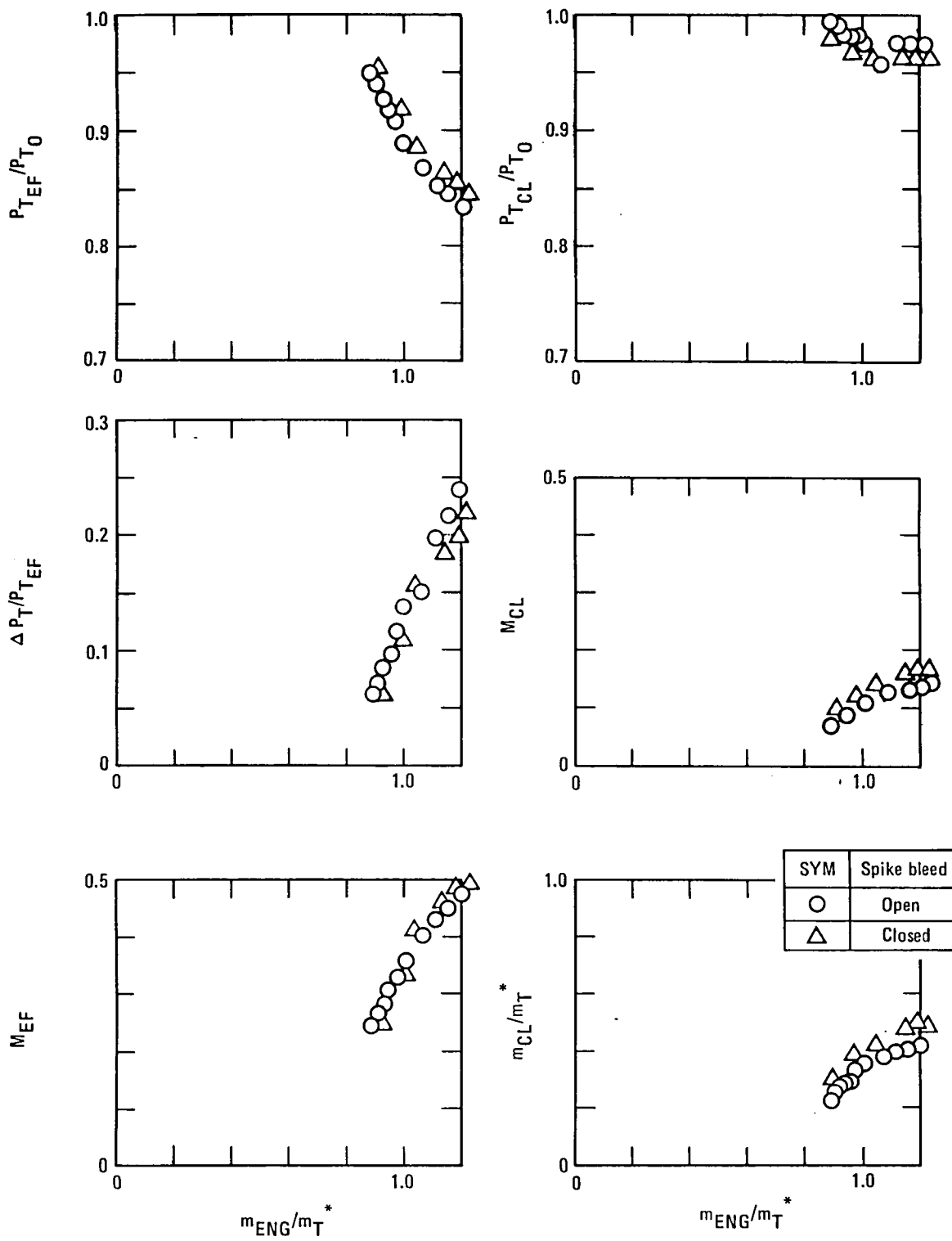


Figure 23. Effect of spike bleed on inlet performance: spike aft and bypass open.

SYM	Spike position
○	FWD
□	MID
△	AFT

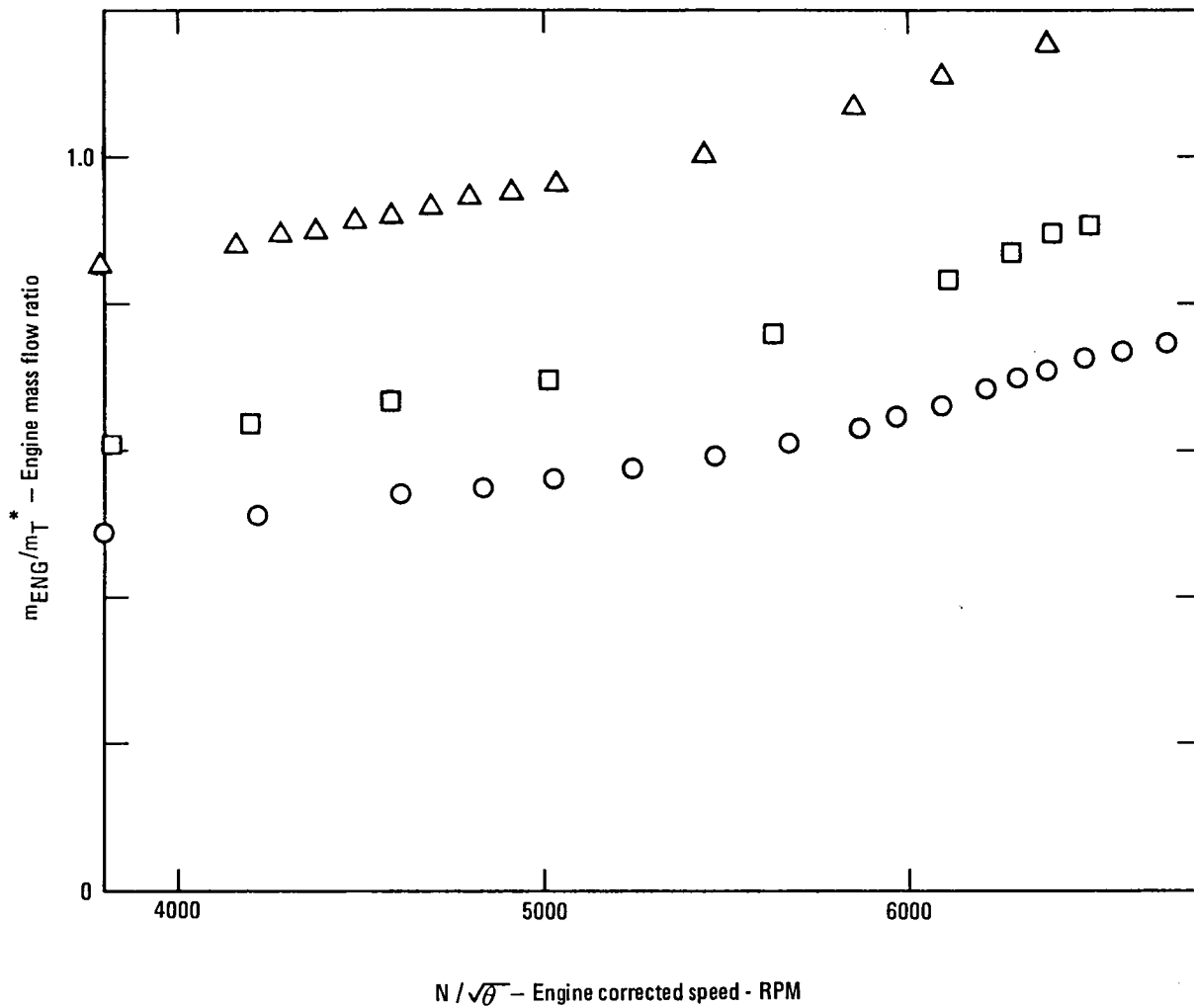


Figure 24. Engine mass flow ratio as a function of engine speed for the three spike positions.

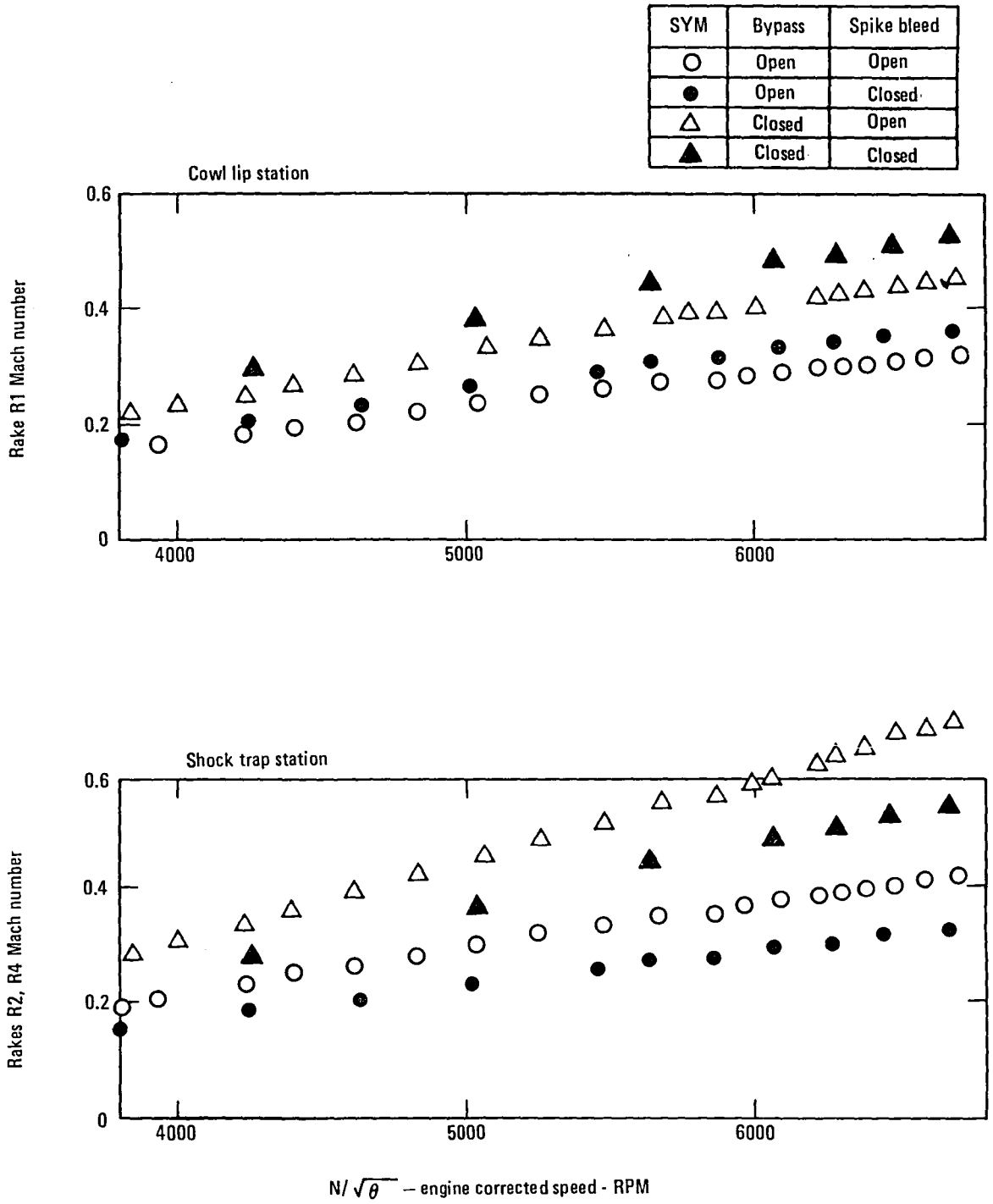


Figure 25. Mach numbers at the cowl lip and shock trap stations.

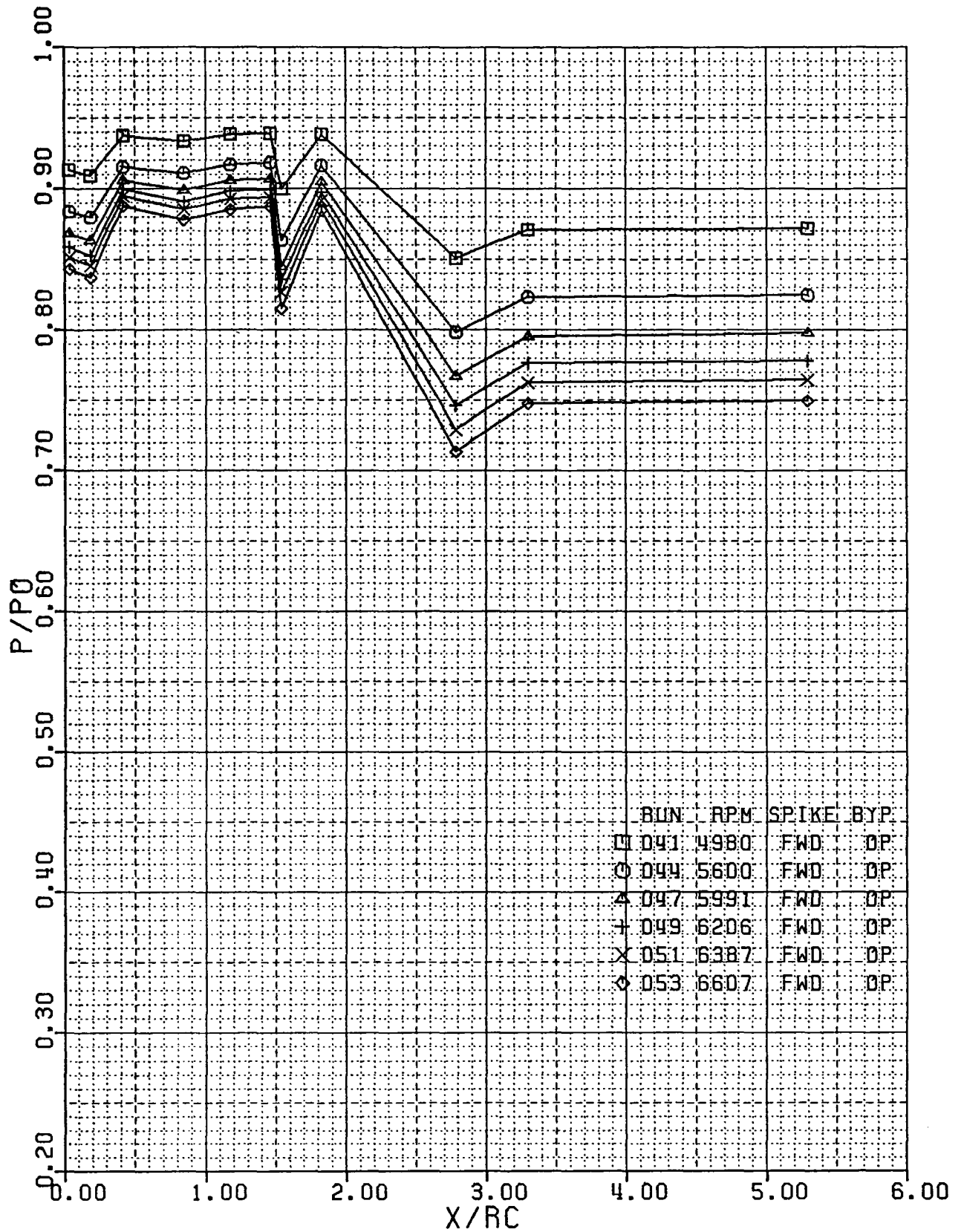


Figure 26a. Cowl static pressure distribution for different engine speeds: spike forward, bypass open, and spike bleed open.

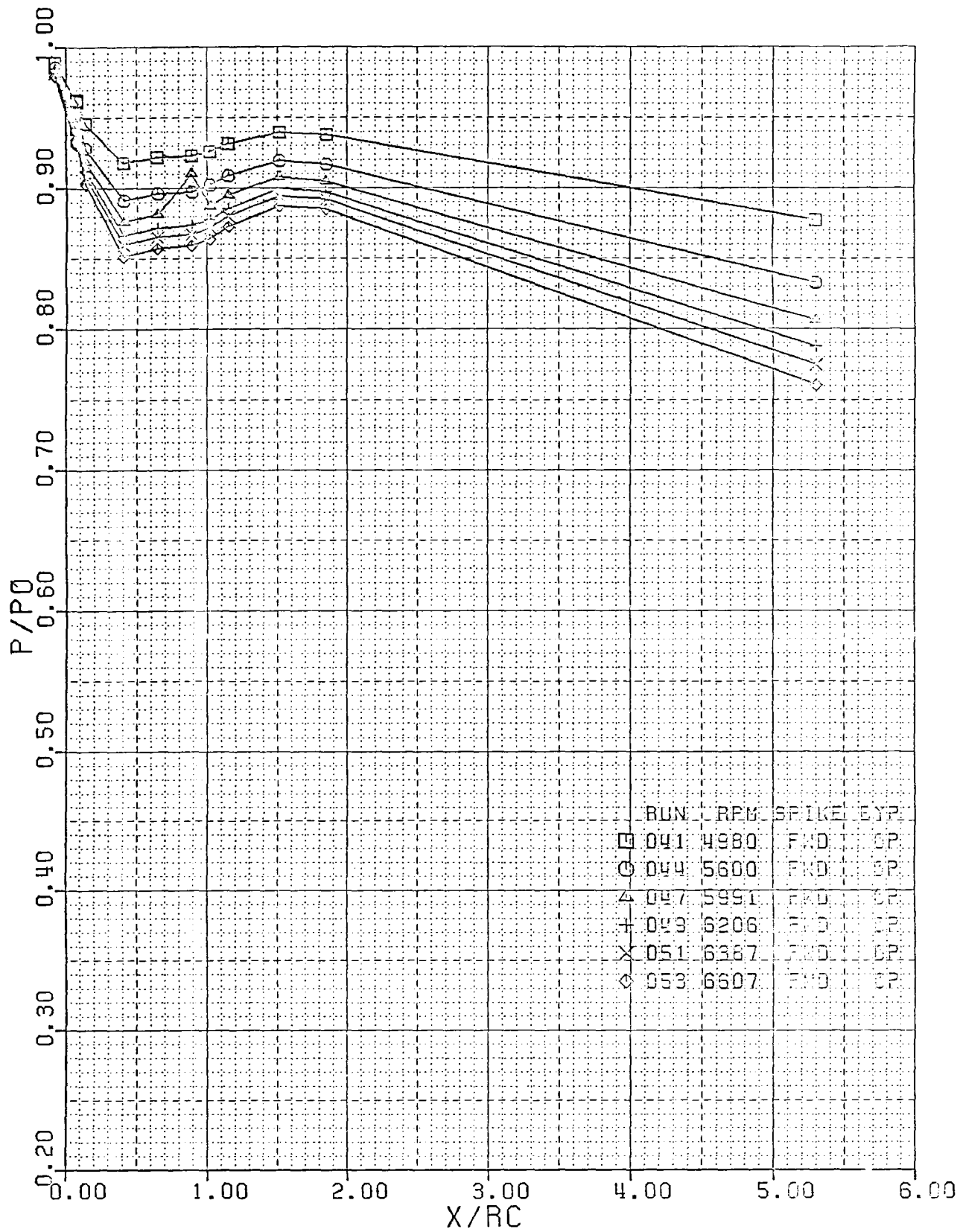


Figure 26b. Spike static pressure distribution for different engine speeds: spike forward, bypass open, and spike bleed open.

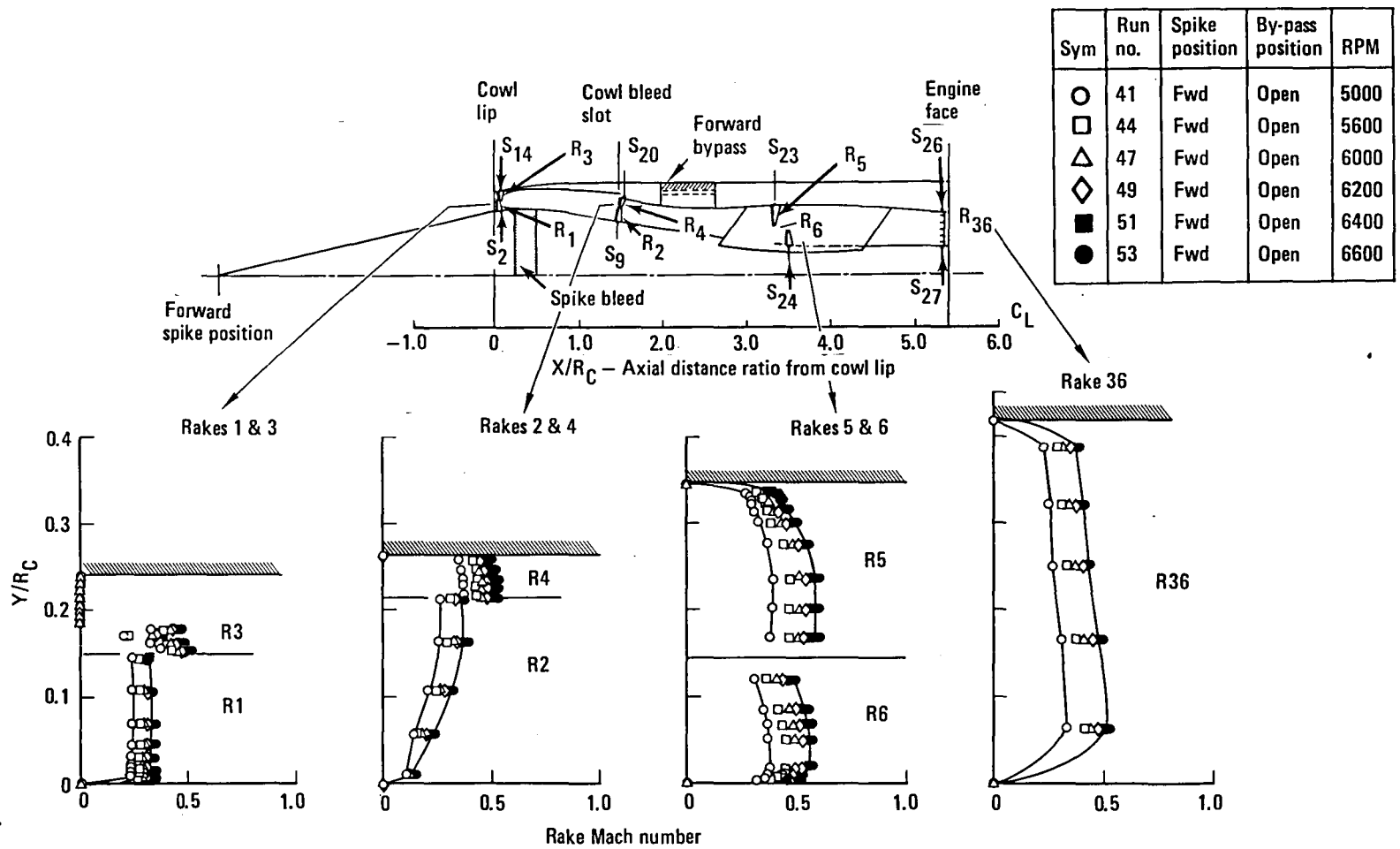
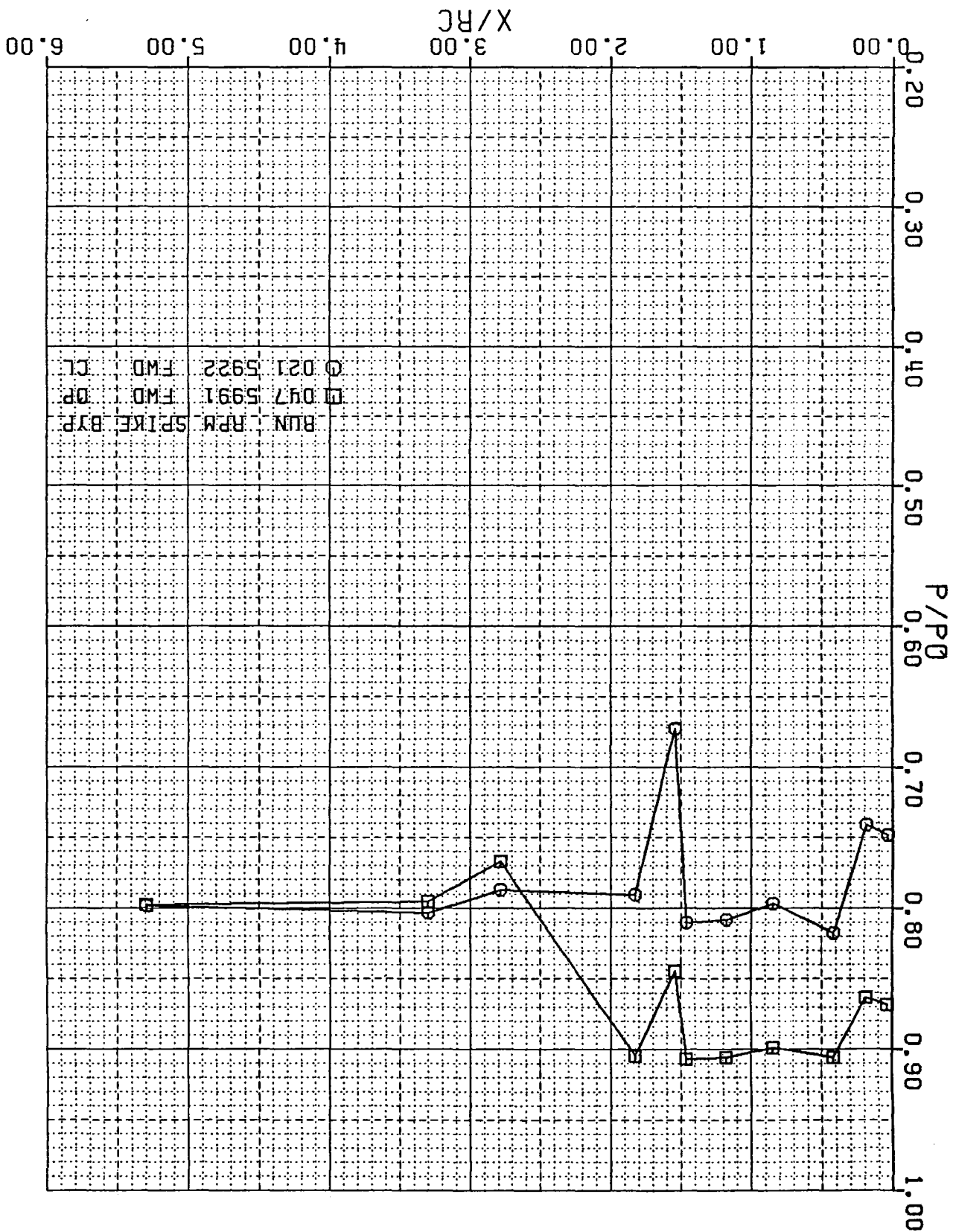


Figure 26c. Rake Mach number profiles for different engine speeds: spike forward, bypass open, and spike bleed open.

Figure 27a. Cowl static pressure distribution for bypass open and closed; spike forward, spike bleed open, and 6000 rpm.



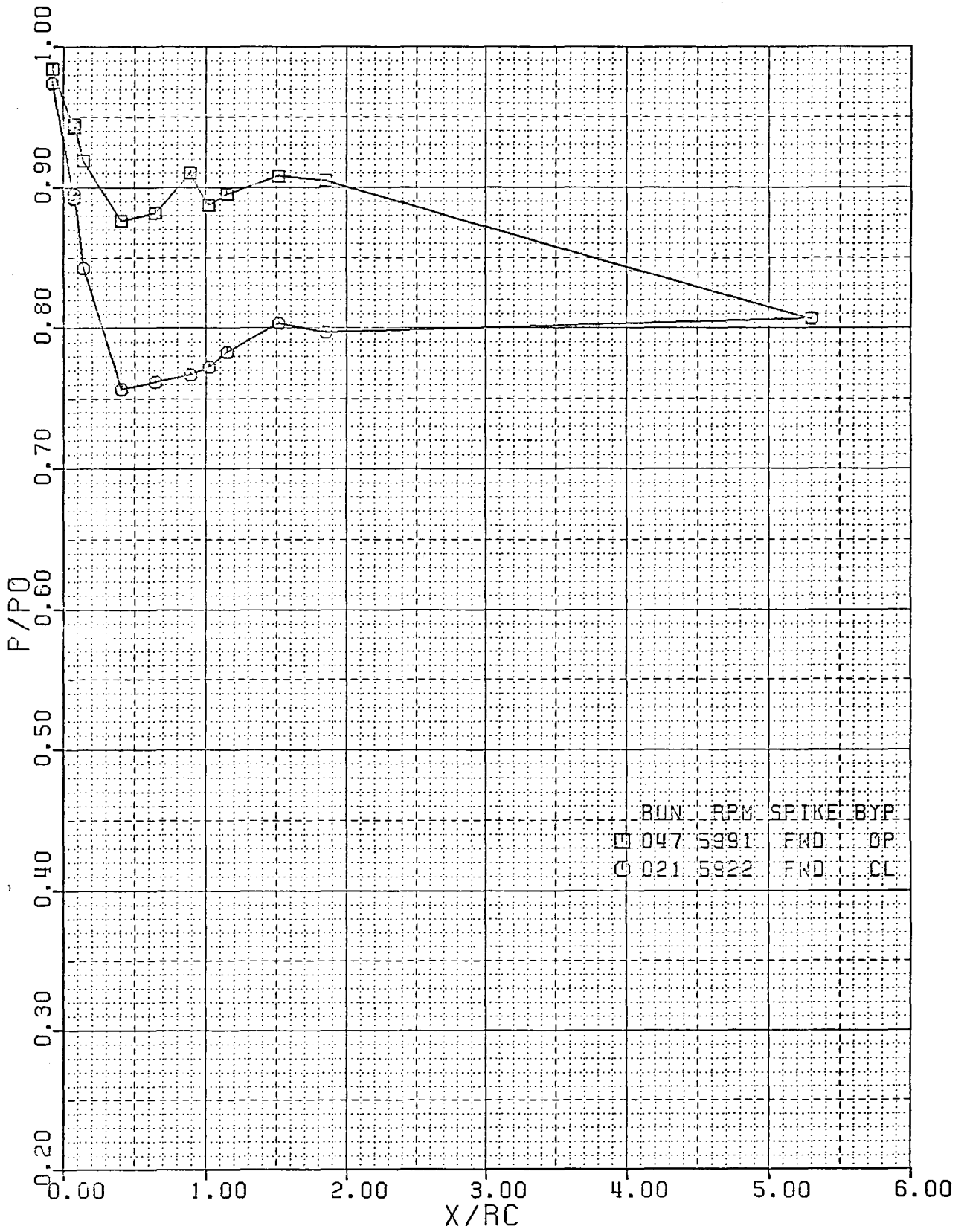


Figure 27b. Spike static pressure distribution for bypass open and closed: spike forward, spike bleed open, and 6000 rpm.

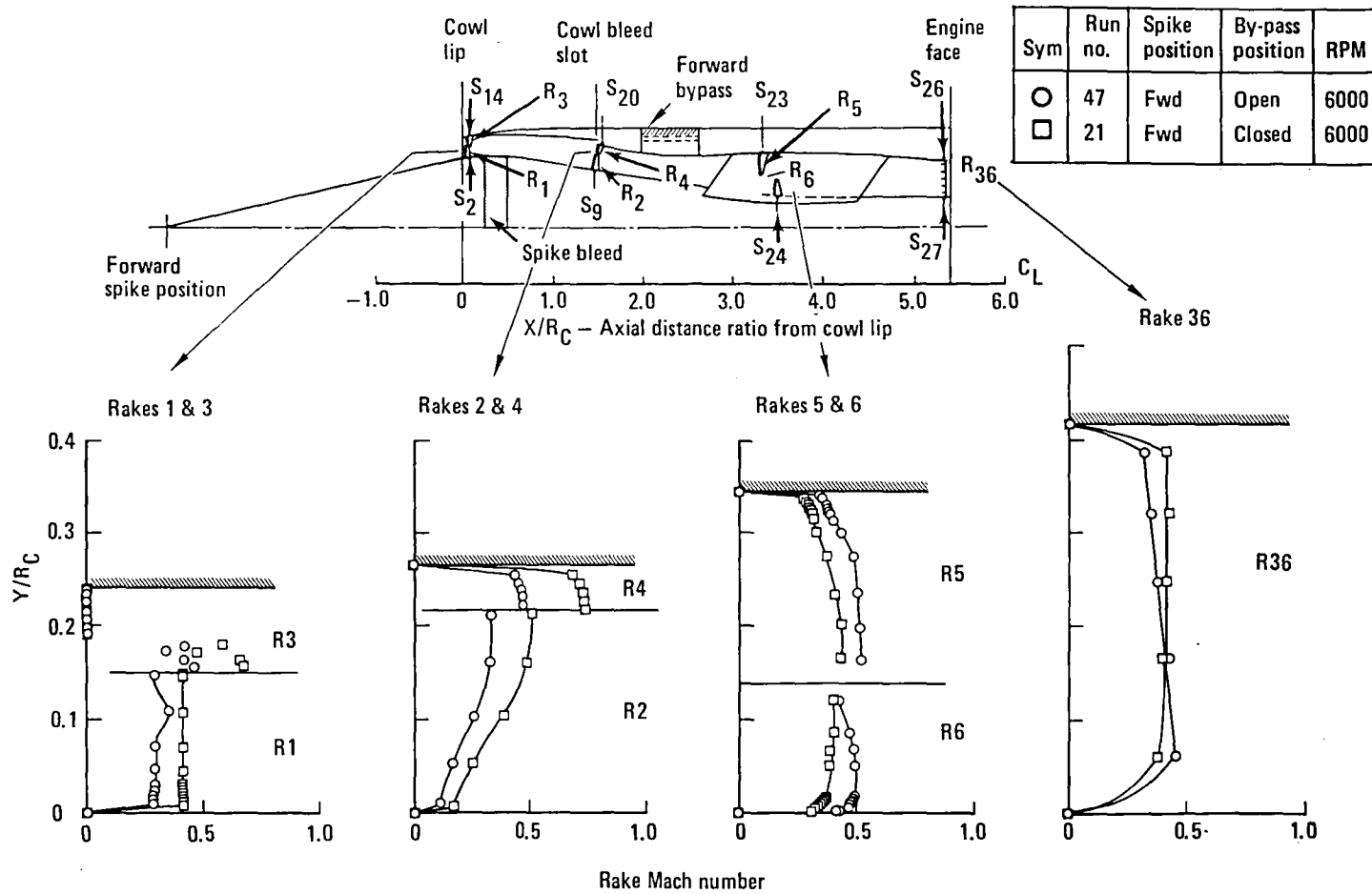


Figure 27c. Rake Mach number profiles for bypass open and closed: spike forward, spike bleed open, and 6000 rpm.

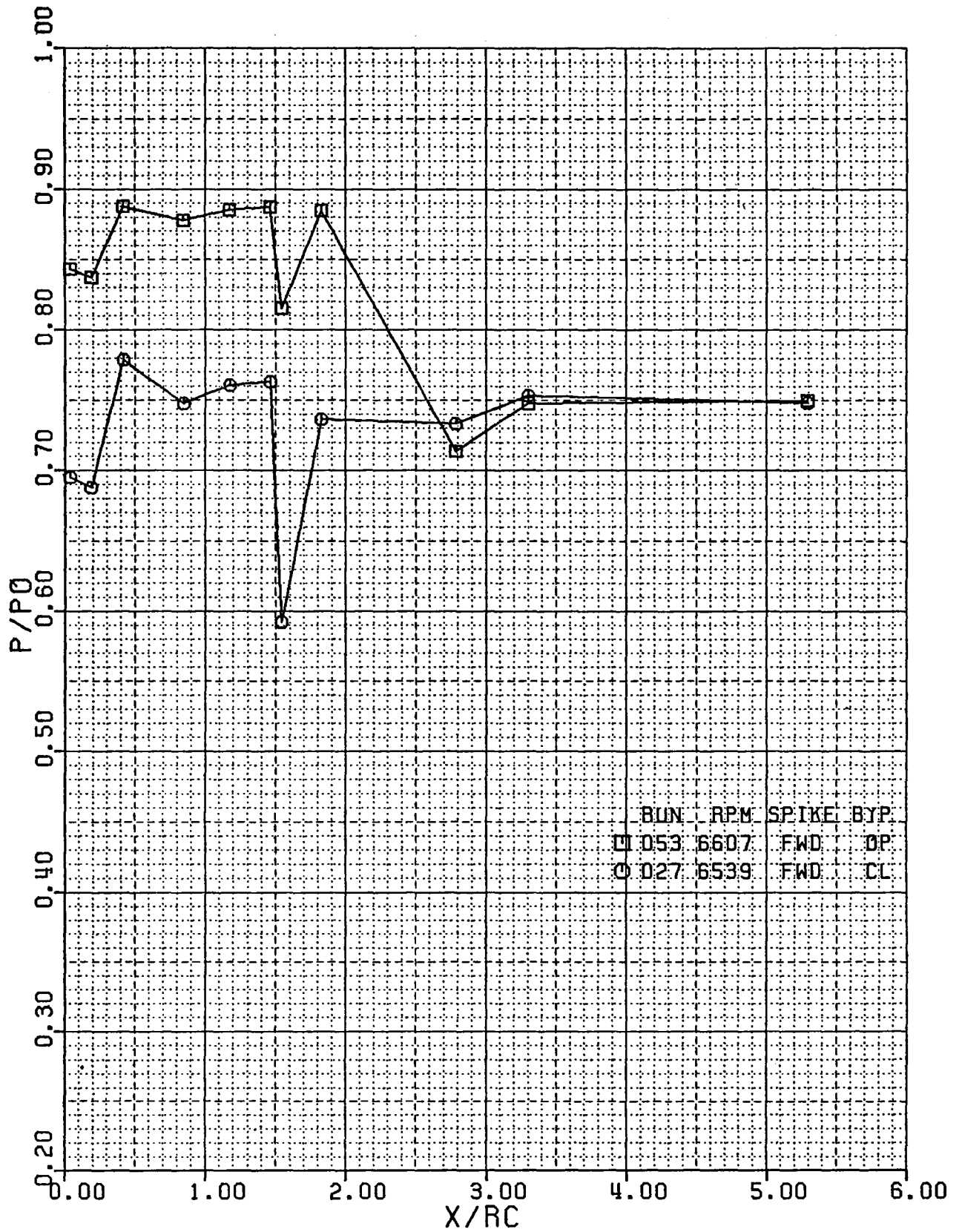


Figure 28a. Cowl static pressure distribution for bypass open and closed: spike forward, spike bleed open, and 6600 rpm.

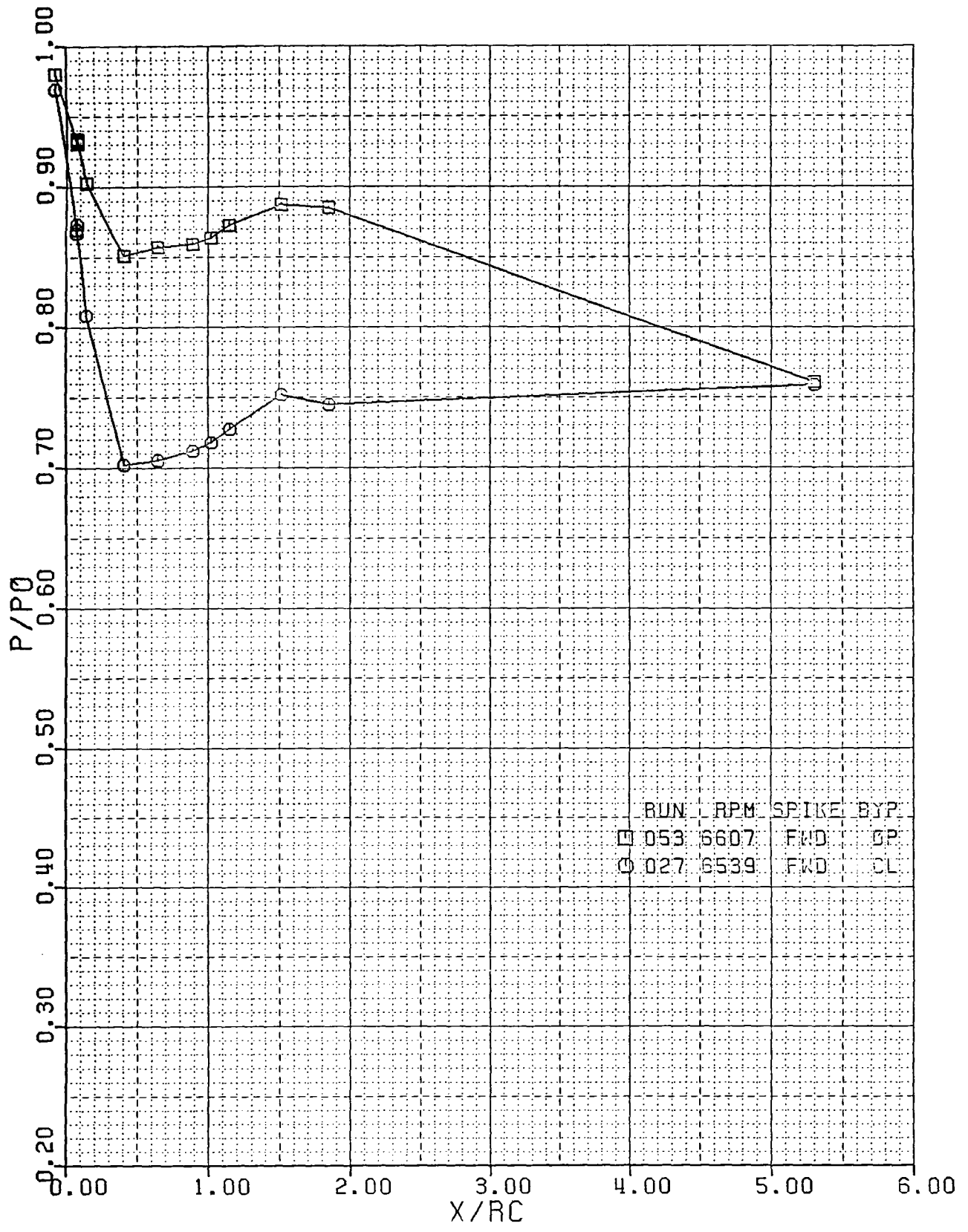


Figure 28b. Spike static pressure distribution for bypass open and closed: spike forward, spike bleed open, and 6600 rpm.

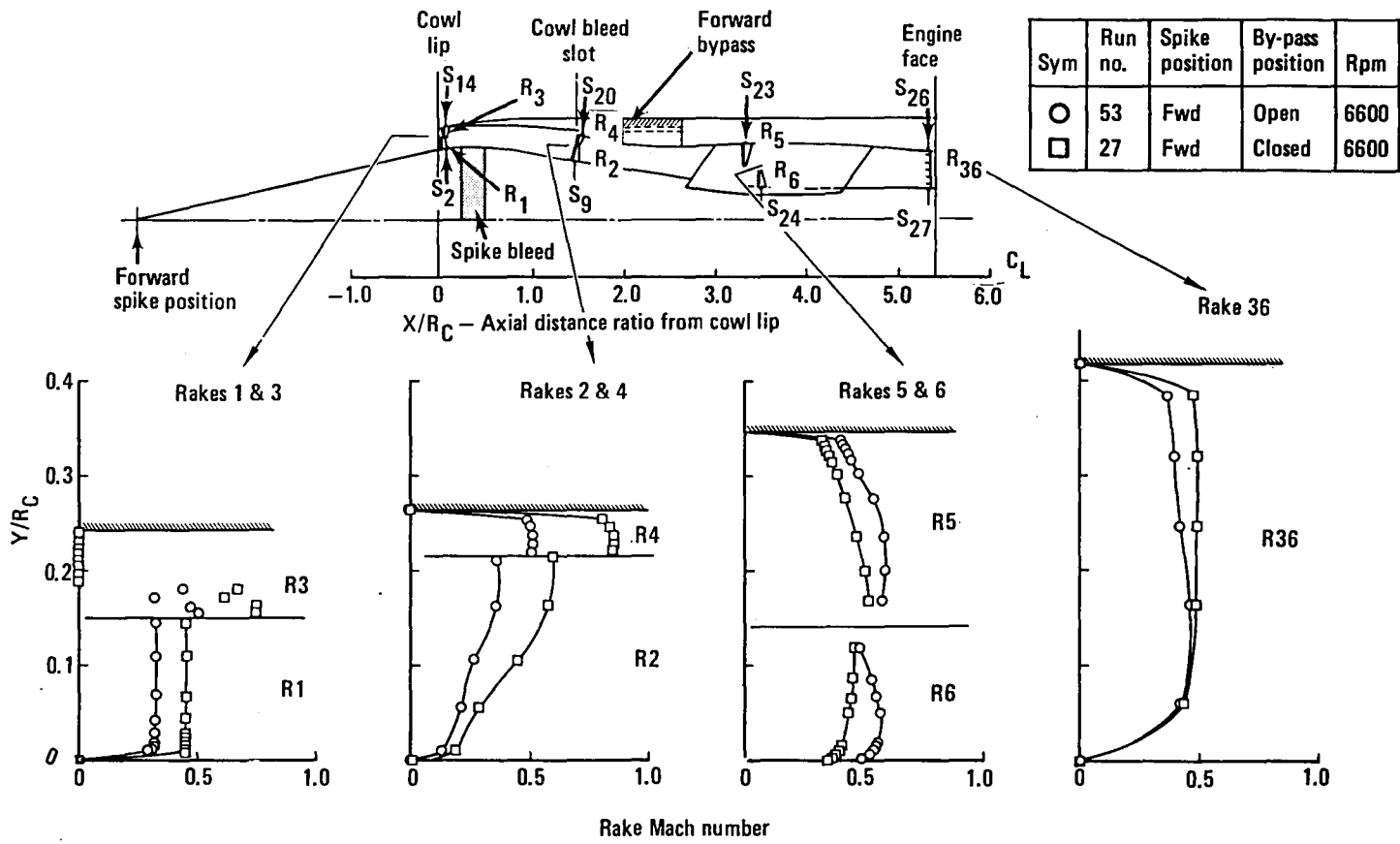


Figure 28c. Rake Mach number profiles for bypass open and closed: spike forward, spike bleed open, and 6600 rpm.

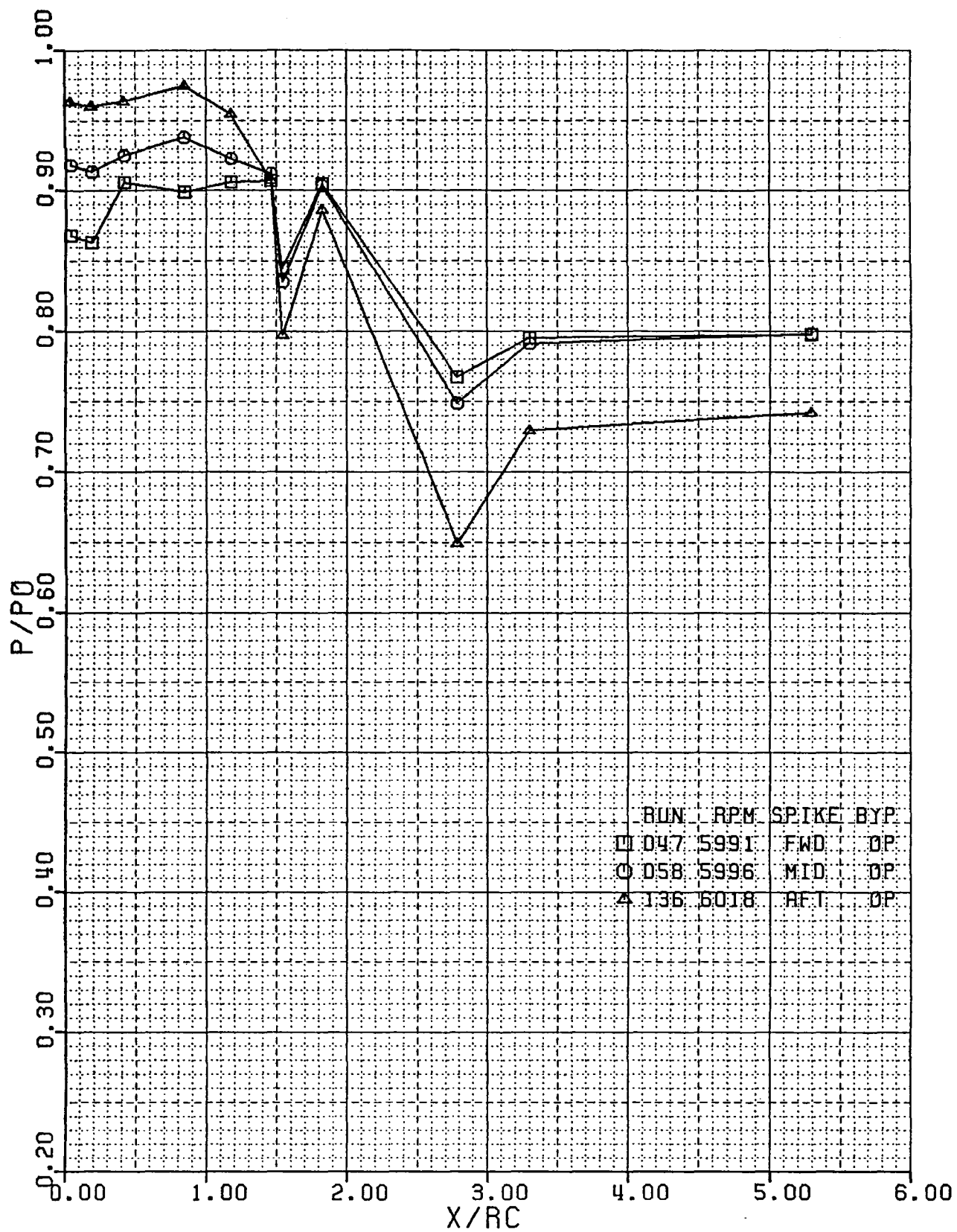


Figure 29a. Cowl static pressure distribution for spike forward, midway, and aft: bypass open, spike bleed open, and 6000 rpm.

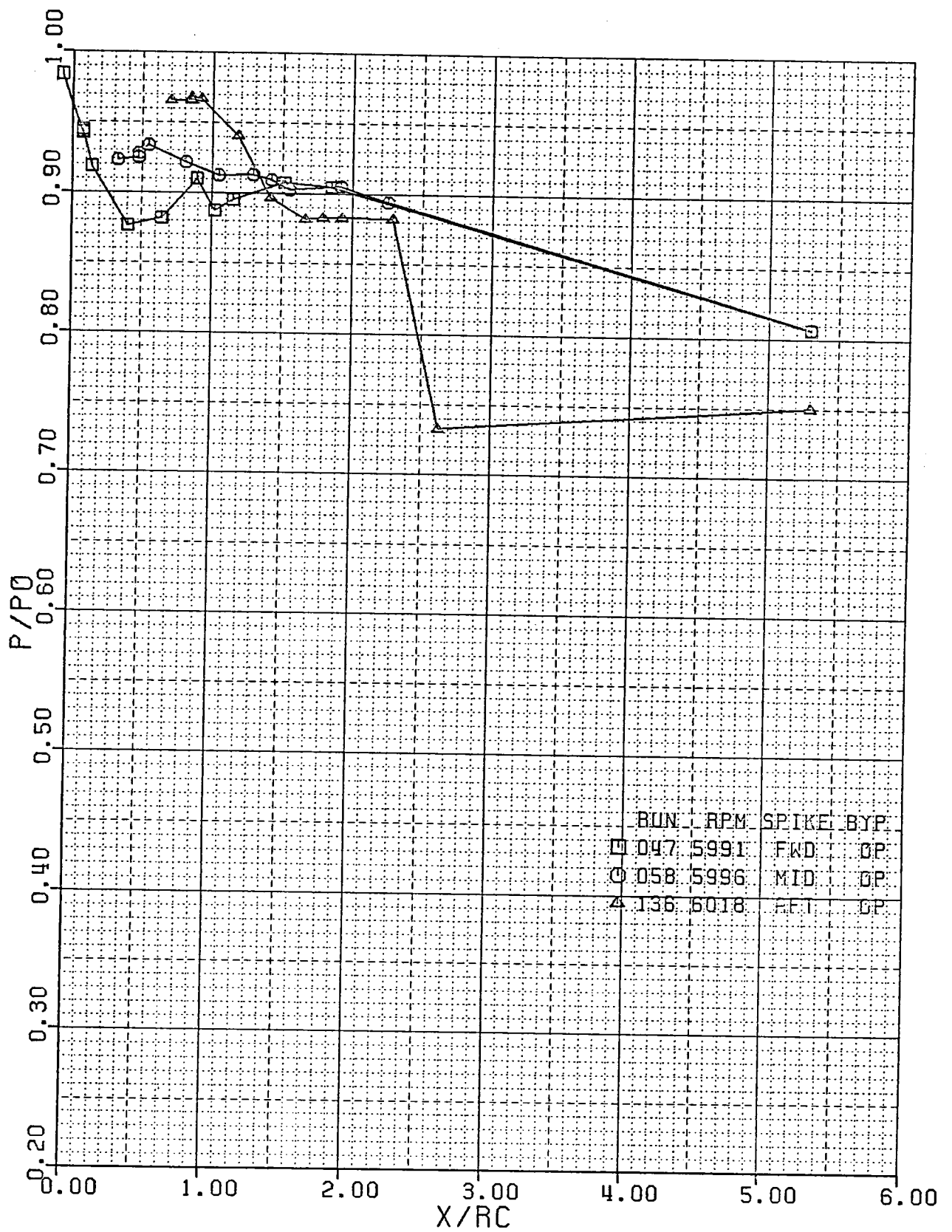


Figure 29b. Spike static pressure distribution for spike forward, midway, and aft: bypass open, spike bleed open, and 6000 rpm.

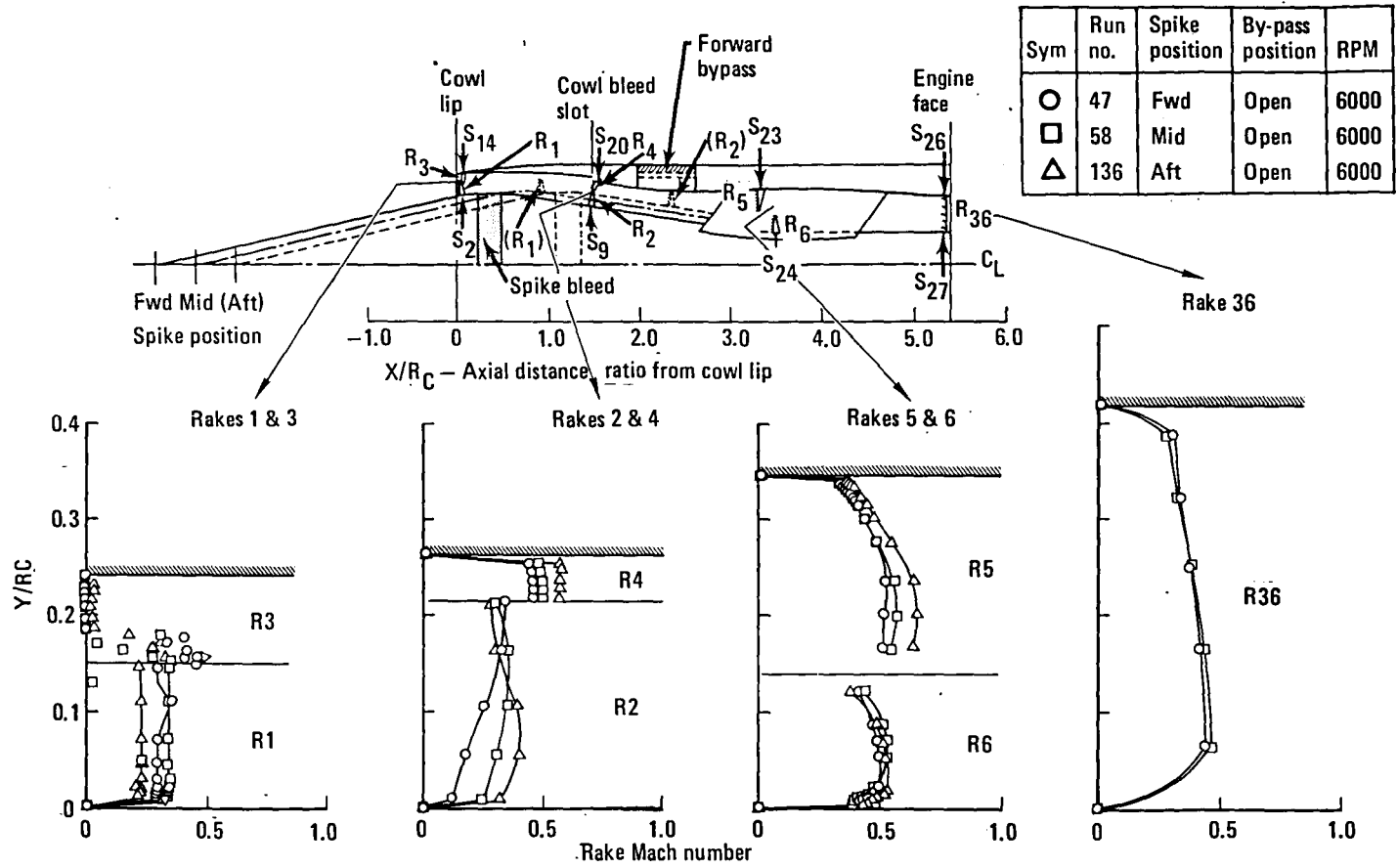


Figure 29c. Rake Mach number profiles for spike forward, midway, and aft: bypass open, spike bleed open, and 6000 rpm

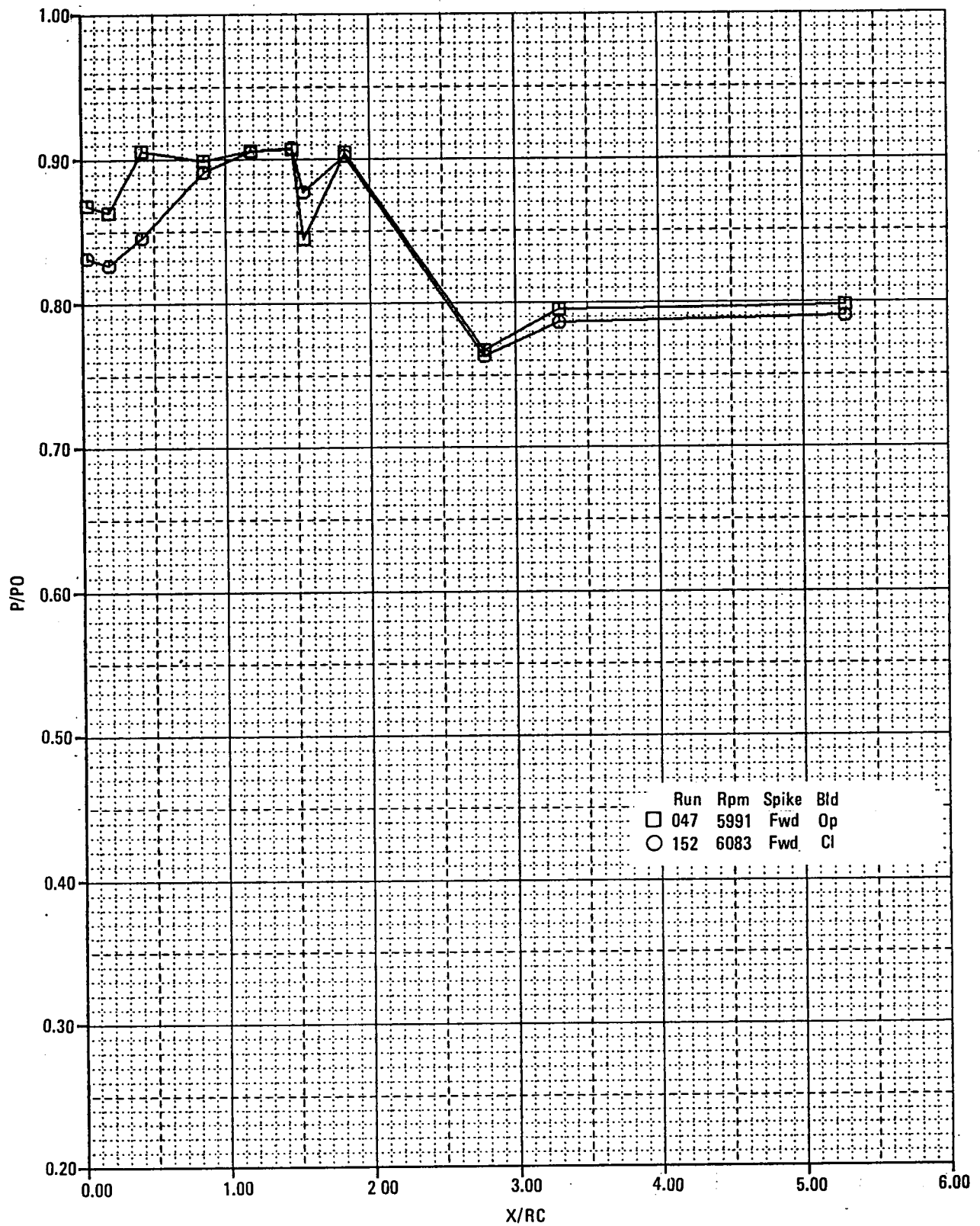


Figure 30a. Cowl static pressure distribution with spike bleed open and closed: spike forward, bypass open, and 6000 rpm.

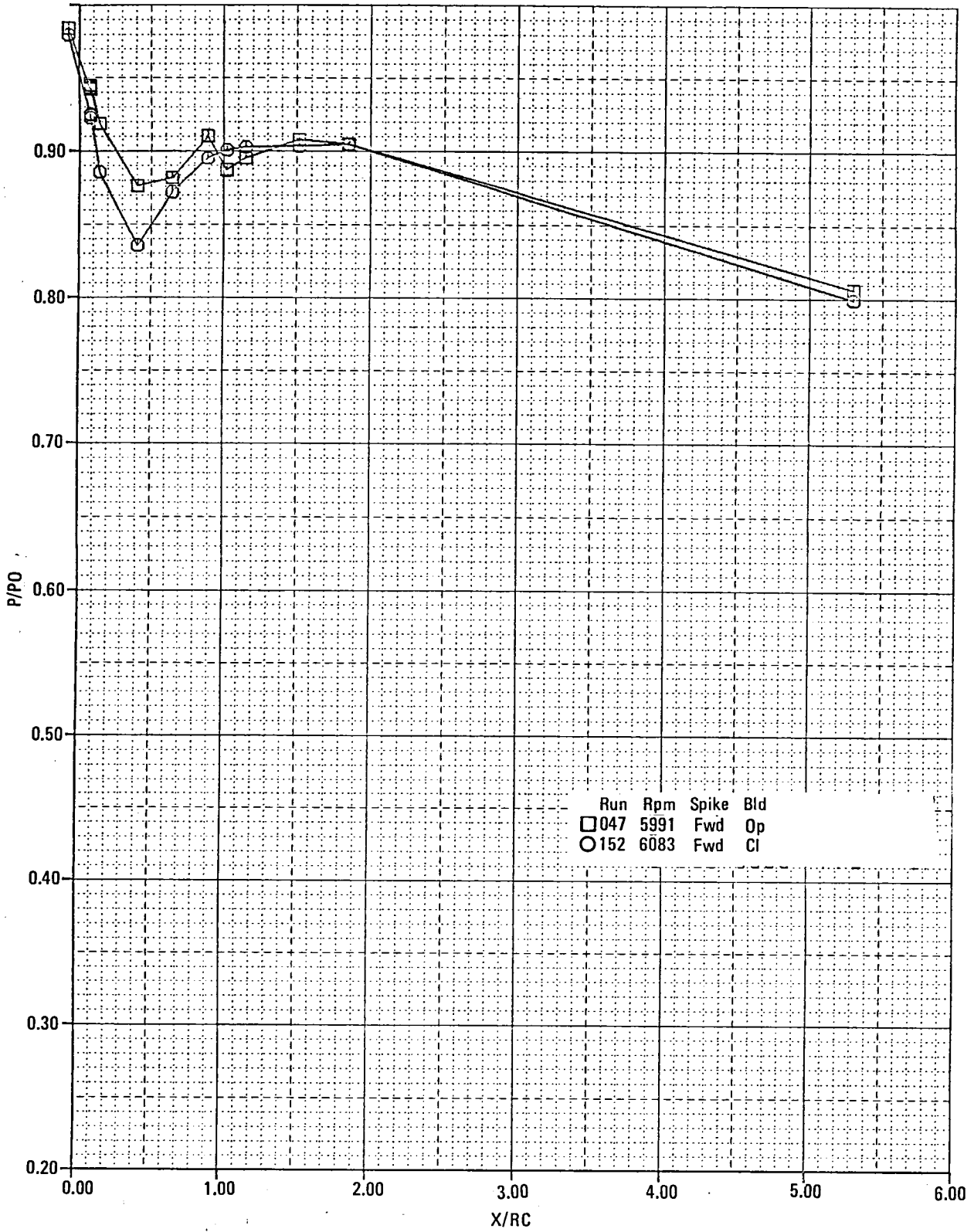


Figure 30b. Spike static pressure distribution with spike bleed open and closed: spike forward, bypass open, and 6000 rpm.

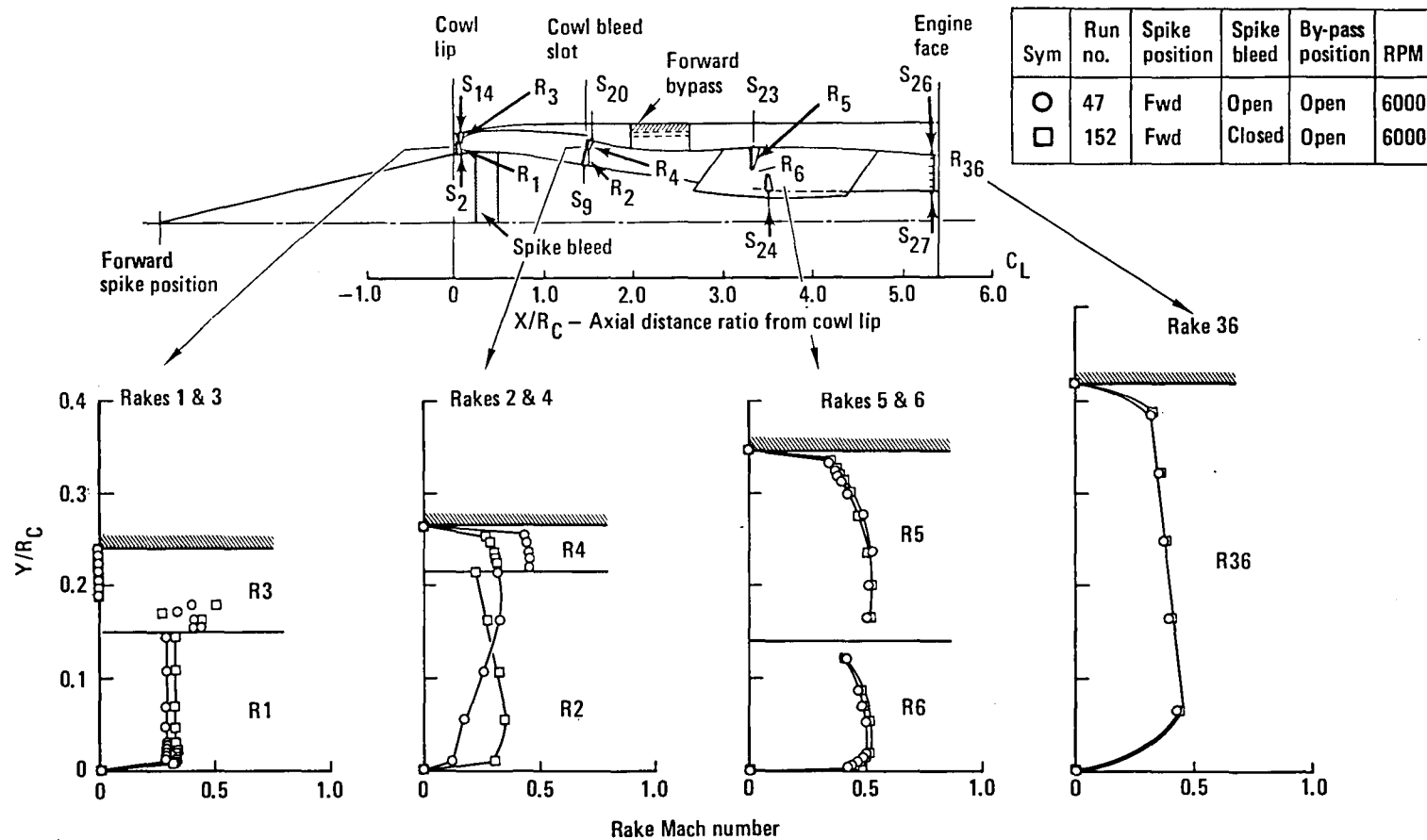
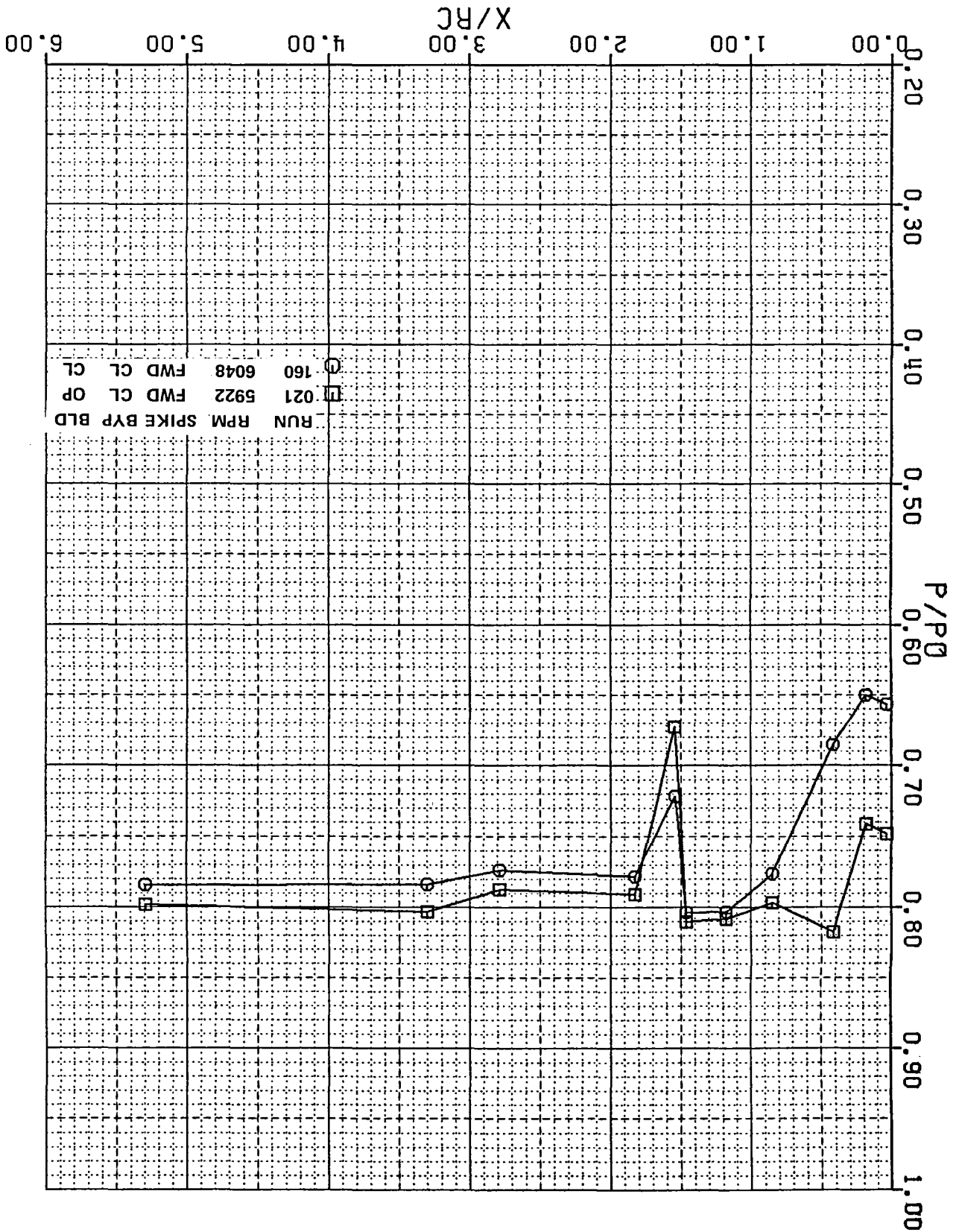


Figure 30c. Rake Mach number profiles with spike bleed open and closed: spike forward, bypass open, and 6000 rpm.

Figure 31a. Cowl static pressure distribution with spike bleed open and closed: spike forward, bypass closed, and 6000 rpm.



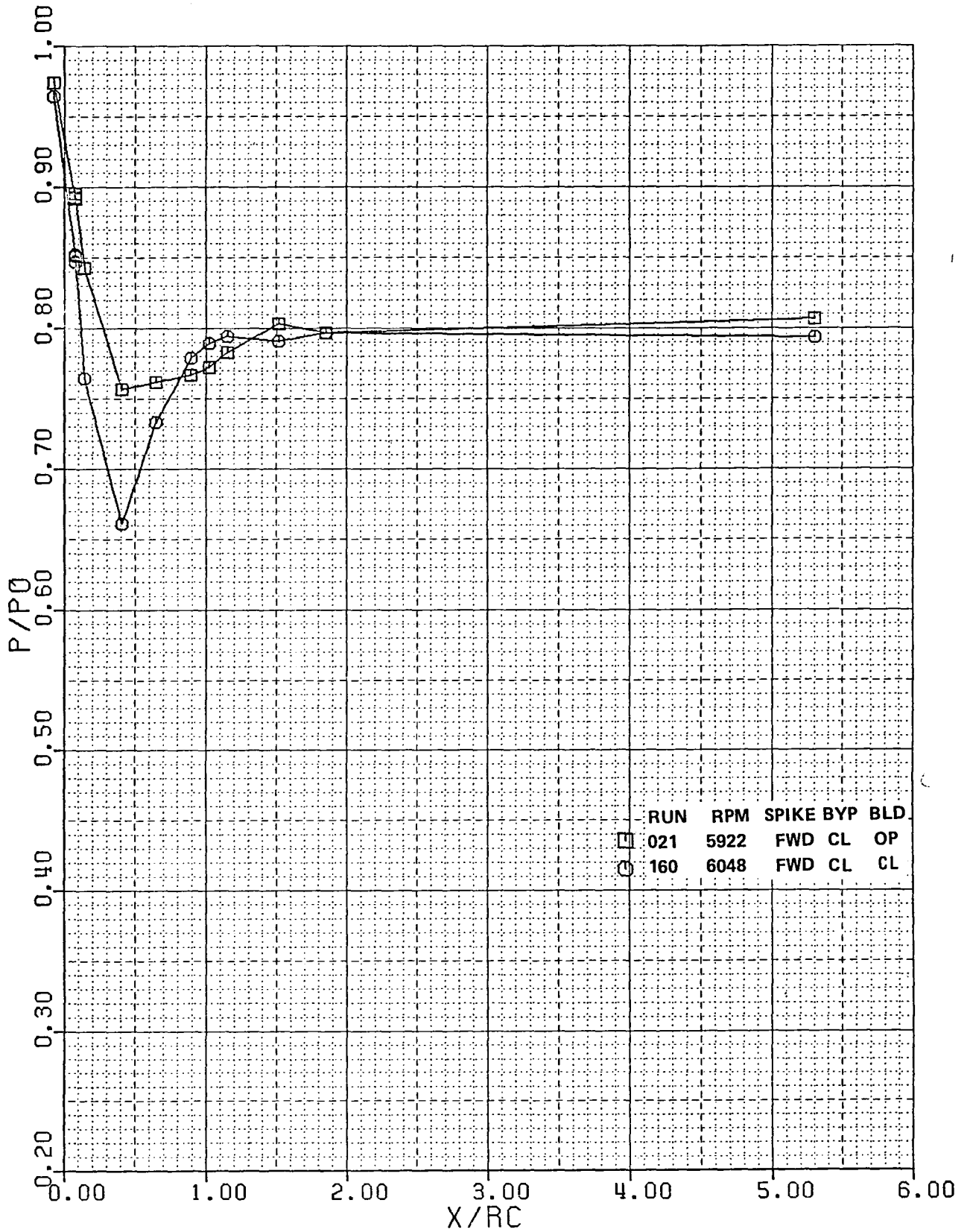


Figure 31b. Spike static pressure distribution with spike bleed open and closed: spike forward, bypass closed, and 6000 rpm.

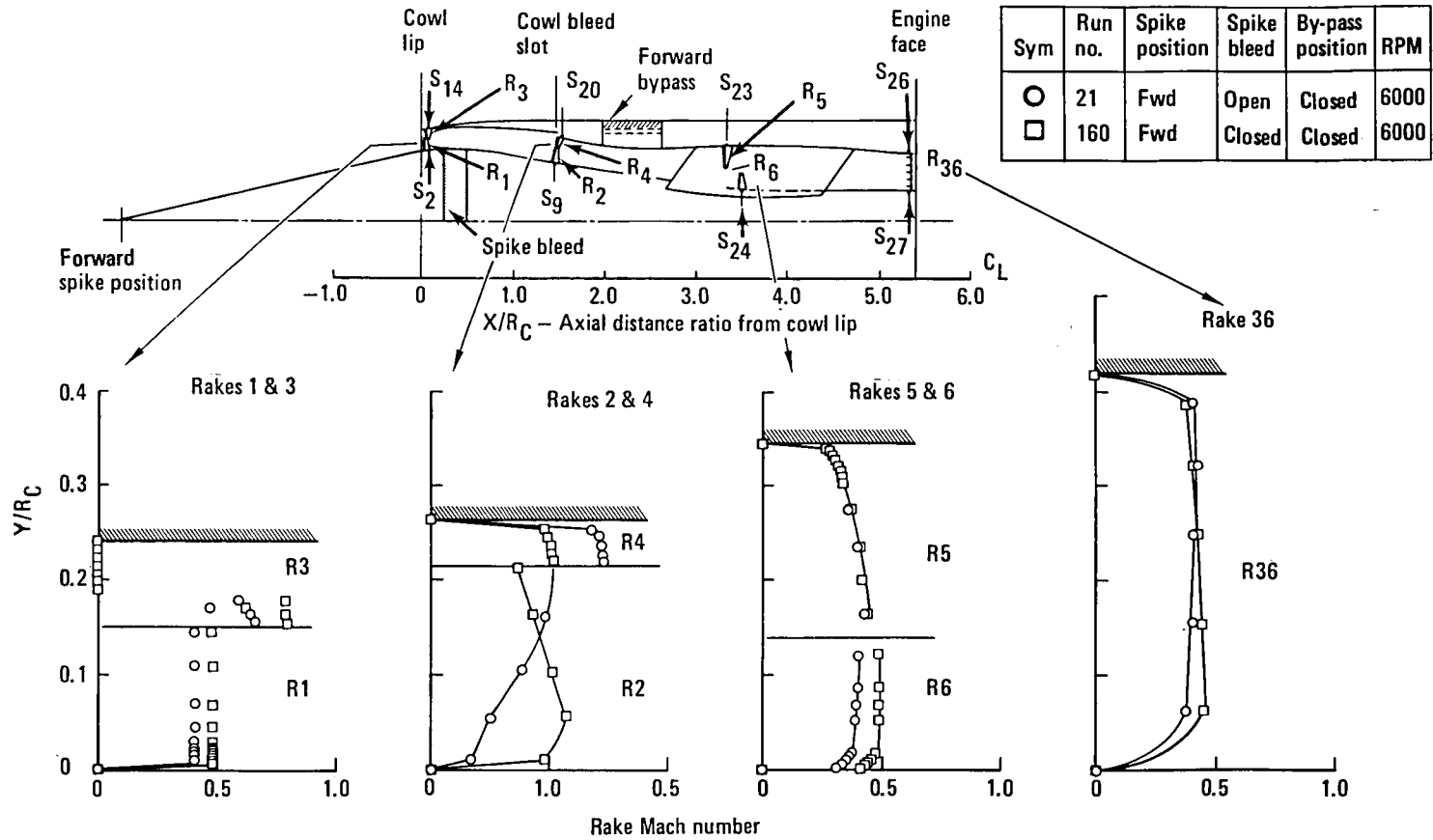


Figure 31c. Rake Mach number profiles with spike bleed open and closed: spike forward, bypass closed, and 6000 rpm.

Inlet Acoustic Behavior

Noise Source. - The J-58 engine had a three-stage compressor with inlet guide vanes. Spacing ratios (gap/chord) between the components were approximately one. Hub to tip ratio was 0.50. The blade and vane count is given below.

J58 - Number of Stators and Vanes

Inlet Guide Vanes	20
First Stage Blades	34
First Stage Vanes	78
Second Stage Blades	52
Second Stage Vanes	82
Third Stage Blades	76
Third Stage Vanes	114

Based on interpretation of the test data, the primary noise source was the first stage of the compressor. Using the methods of reference 3, the basic noise mechanisms of the first stage compressor were blade-vane interaction, rotor-alone, and multiple-pure-tone. Blade-vane noise was generated by interaction between the rotor and inlet guide vanes and appeared in the test data at blade passing frequency (BPF). Rotor-alone noise was seen at the first harmonic of BPF. The second harmonic of BPF was not significant at any of the test conditions. Multiple-pure-tone noise became significant at engine speeds greater than 6000 rpm in the 1000 Hz to 2000 Hz frequency range.

Tabulations of Acoustic Data. - Appendices B and C contain tabulations of all the reduced acoustic data taken for the YF-12 aircraft and the bellmouth inlet/J58 engine tests, respectively.

Far-Field Perceived Noise Level. - A broad overview of the results of the test program is provided by figure 32 which shows the PNL at zero degrees from the inlet centerline and at about 25m from the engine face versus corrected engine speed. These data were recorded by microphone F1 for the YF-12 inlet and microphone B4 for the bellmouth inlet.

There was some uncertainty about the magnitude of engine speed for the bellmouth data. During the bellmouth tests, the tachometer signal was not recorded. In figure 32, the bellmouth data from microphone B4 are shown at the nominal engine speed set during the tests. By contrast, engine speed for the YF-12 microphone F1 data represents the average value over the 30 second measurement interval, as determined from the recorded tachometer signal.

Microphone B4 was 25m from the engine face in the bellmouth inlet tests. Microphone F1 was 22.9m (75.0 ft) from the plane of the YF-12 inlet cowl lip. Thus, these two microphones were at approximately the same distance from the engine face. No distance corrections were applied to these measurements.

In comparing the results for the bellmouth inlet with those of the YF-12 inlet in its normal low-speed configuration (spike forward, bypass open, spike bleed open), the differences in PNL varied with engine speed. At 5000 rpm, the bellmouth case was roughly one PNdB higher. This difference increased to about 5 PNdB at 6000 rpm. Above 6000 rpm, the difference was 3 to 5 PNdB, with some uncertainty caused by the scatter in the bellmouth inlet data. The other YF-12 inlet configurations produced even lower noise levels. The greatest reductions were provided by the case with spike forward, bypass closed, and spike bleed closed. From 6000 rpm to 6700 rpm, this configuration gave noise levels about 11 PNdB lower than the bellmouth inlet.

As engine speed increased to about 6000 rpm, there was a general increase in PNL. Further increases in engine speed produced rather steep decreases in PNL, however. The details varied with inlet configuration, as is evident from figure 32. These changes in PNL with engine speed were apparently related to changes in engine source noise, as obtained from the bellmouth data and from measurements at K14 and K12.

Closing the bypass door resulted in a significant decrease in PNL. For spike forward and spike bleed open, the PNL difference increased from about one PNdB at 5000 rpm, to about 3 PNdB at 6000 rpm, to about 4 PNdB at 6700 rpm. The bypass door effect was much larger with the spike bleed closed. Then the differences were about 2, 6, and 7 PNdB at 5000, 6000, and 6700 rpm, respectively. With the spike midway, the behavior was similar to that with the spike forward.

Closing the spike bleed perforations resulted, in general, in a decrease in PNL, with a greater effect with the bypass closed than with the bypass open. For bypass doors open, the difference was of the order of one PNdB over the entire engine speed range. For bypass doors closed, however, the difference was about 4 PNdB at speeds above 6000 rpm. This strong effect of spike bleed closure appeared to be related to flow acceleration at the cowl lip. Closing the spike bleed forced more air to enter the inlet by flowing past the cowl lip. This in turn increased flow separation and maximum Mach number at the cowl lip station. Figures 25, 30c, and 31c illustrate these effects. The effect was small when the bypass was open, because the bypass was an alternate path for the incoming air.

Moving the spike from the forward to the midway position produced only small changes in PNL. This is illustrated in figure 32 for both bypass-open and bypass-closed cases. Further spike translation from midway to aft position produced a large change in PNL, however. At 5000 rpm the difference was small. It increased to about 6 PNdB near 6000 rpm, and was about 3 PNdB at 6700 rpm.

Comparison of YF-12 and Bellmouth Inlets. - Comparison of the far-field noise data for the YF-12 and bellmouth inlets was of particular interest, as the bellmouth provided a convenient reference condition. To amplify the results shown in figure 32, sample results of PNL and one-third octave band SPL are shown in figures 33 through 36 for nominal engine speeds of 5000, 6000, and 6600 rpm. The YF-12 inlet had spike forward, bypass open, and spike bleed open.

The polar plots of PNL in figure 33 revealed that the YF-12 noise level was greatest at zero degrees from the inlet centerline, while it was greatest at 40 degrees for the bellmouth inlet. Thus, if the maximum values of PNL were compared, the differences between the inlets would be greater than indicated in figure 32. The bellmouth data was from microphones B3, B5, and B6 at 20m from the engine face. Thus, the PNL values for the two inlets in figure 33 are not directly comparable. Adjusting this bellmouth data to 25m would reduce the values by about 2 PNdB, assuming decay by the inverse square of distance from the source.

The far-field spectra at zero degrees revealed little difference near the BPF at 5000 rpm (figure 34). The differences in the spectra of the two inlets increased with engine speed (figures 35 and 36). At 6600 rpm the peak near the BPF had disappeared for the YF-12 inlet, while it was distinct for the bellmouth inlet.

Far-field narrow band spectra for the J58 engine with the bellmouth inlet are shown in figure 37. These measurements were at 25 m, zero degrees, and at engine speeds of 5000, 6000, and 6600 rpm. They thus correspond to the one-third octave band results in figures 34, 35, and 36. These spectra illustrate the increase in SPL near the BPF as engine speed increased from 5000 to 6000 rpm, followed by the decrease in SPL as engine speed increased to 6600 rpm. These narrow band spectra also show the presence of MPT's at 6000 rpm and above.

Effects of Engine Speed. - Some of the effects of engine speed on the YF-12 inlet acoustics are summarized here for the case of spike forward, bypass open, and spike bleed open. Corresponding inlet pressures and Mach numbers were given in figure 26. Figure 38 shows far-field PNL. The zero degree data were also shown in figure 32. The corresponding spectra for zero degrees are shown in figure 39. Again note the loss of the peak near the BPF at 6600 rpm.

One-third octave band spectra for the inlet are compared with far-field microphone F1 at zero degrees for 5000 rpm in figure 40a. These spectra have similar shapes above 1000 Hz, and exhibit peaks near the BPF. Narrow band spectra for the inlet are given in figure 40b. The relatively large decrease in SPL at the BPF from K14 to K5 is apparent.

One-third octave band and narrow band spectra for 6000 rpm are shown in figures 41a and 41b, respectively. The trends in the one-third octave band spectra were similar to those at 5000 rpm. The narrow band spectra show distinct peaks near the BPF for K14 and K12 and corresponding broader peaks for K5, K3, and K1. The high-frequency spectrum for K10 was relatively flat, however. Figure 41b also shows MPTs in K14 and K12. These were more pronounced for K12, probably because it was closer to the compressor blade tips. (See figures 4 and 5.) It is interesting that the MPTs were much less for K10, which was just upstream of the struts. The MPTs were also weaker for K5, K3, and K1.

At 6600 rpm, there was a significant change in the spectra of K5, K3, K1, and F1 above 1000 Hz. This is illustrated in figure 42a for the one-third octave band spectra. Narrow-band inlet spectra are given in figure 42b. There were distinct peaks near the BPF only for K14 and K12. Again MPTs virtually disappeared across the struts from K12 to K10, and were less distinct for K5, K3, and K1.

There was a large change in SPL near the BPF from K14 to K5 at all engine speeds. Also, for the spike Kulites, the peak in SPL near the BPF first disappeared between K14 and K5. This was the region of the inlet that contained the spike support struts and the bypass doors. There was thus a suggestion that the change in spectrum shape was related to an effect of the struts and/or an effect of the open bypass. To provide some clarification of this point, one-third octave band inlet spectra for spike forward, bypass closed, and spike bleed open at 6600 rpm are shown in figure 43. Again the peak near the BPF disappeared between K14 and K5, suggesting that this effect was related to the presence of the struts. This was supported by the spectra for K12 and K10 in figures 41b and 42b. The open bypass seems to have caused a greater reduction in SPL from K14 to K5 than a change in spectrum shape. It is not yet known whether this was related to the bypass inflow or to noise radiated out through the open bypass. Also, note that the spectra for K3 and K1 were much flatter above 1000 Hz with the bypass closed. A possible cause was the higher throat Mach numbers that were present with the bypass closed. (See figures 25 and 28c.)

Effects of Bypass Door Opening. - Figure 44 shows the directional variation in far-field PNL at 6000 rpm for the bypass open and closed, the spike forward, and the spike bleed open. The data at zero degrees were also shown in figure 32. The angular distributions were similar.

The spectra at 6000 rpm and zero degrees in figure 45 show similar shape for bypass open and closed.

Corresponding inlet pressure and Mach number data were shown in figure 27.

Inlet spectra at 6000 rpm with the bypass closed are shown in figures 46a and b. These figures can be compared with figures 41 in which the bypass was open. The principal differences in the one-third octave band spectra seem to be in the relative SPL. Thus, with the bypass closed there was a more gradual decrease of SPL near the BPF from K14 to K1. With the bypass open, there was a large drop in SPL from K14 to K5, followed by a much smaller drop from K5 to K1. This behavior was consistent with that at 6600 rpm described in the Effects of Engine Speed section.

The narrow band spectra for K12 and K10 were most strongly affected by closing the bypass, probably because they were closest to it. Comparing figures 46b and 41b, the peak in K12 near the BPF was lower with the bypass closed, but the MPTs seemed stronger. K10 showed more energy at high frequencies with the bypass closed.

Effects of Spike Bleed Opening. - The angular variation of far-field PNL at 6000 rpm is shown in figure 47 for spike forward, bypass open, and spike bleed open and closed. The data at zero degrees were given in figure 32. As pointed out in the Far-Field Perceived Noise Level section, the effect of spike bleed opening was rather small when the bypass was open.

The far-field spectra at 6000 rpm and zero degrees, shown in figure 48, have similar shapes and rather small differences in SPL.

Corresponding inlet pressure and Mach number data are shown in figure 30.

Inlet spectra at 6000 rpm with spike forward, bypass open, and spike bleed closed are shown in figure 49. These spectra can be compared with those in figure 41a for which the spike bleed was open. The spectra are generally similar, confirming the far-field results that indicated a small effect of spike bleed opening when the bypass was open. This was also consistent with the small increase in maximum Mach number near the cowl lip for this case.

The effect of spike bleed opening was greater with the bypass closed, as noted previously in the Far-Field Perceived Noise Level section. Figure 50 shows the far-field PNL at 6000 rpm for spike forward, bypass closed, and spike bleed open and closed. The data at zero degrees were shown in figure 32. The peak at 20 degrees with the bleed closed is presently unexplained. The greatest difference caused by spike bleed closure was at zero degrees. The far-field spectra at 6000 rpm and zero degrees are shown in figure 51. The spectrum with spike bleed closed did not have a peak near the BPF, thus accounting for the rather large difference in PNL.

Corresponding inlet pressure and Mach number data are shown in figure 31.

The corresponding inlet spectra at 6000 rpm for spike forward, bypass closed, and spike bleed closed are shown in figure 52. These spectra can be compared with those of figure 46a, in which the spike bleed was open. The main effect of closing the spike bleed was to produce a large drop in SPL near the BPF from K3 to K1. These are the Kulites on either side of the spike bleed. Also notable was that the peak in the K1 spectrum near the BPF was nearly gone. This behavior suggests a relationship between the higher local Mach numbers near the cowl lip and the change in spectrum and SPL from K3 to K1. Although the flow was not choked, there was a strong local acceleration which may have affected the sound propagation.

If the preceding relationship is valid, then spike bleed closure may have a smaller effect when the aircraft has forward speed. The required flow turning would be less, and the pressure difference across the bleed system would be smaller.

Figures 46a and 52 each show that with the bypass closed, the reduction in SPL near the BPF from K14 to K5 was much less than with the bypass open. This was again consistent with the behavior described in the Effects of Engine Speed section.

Effects of Spike Position. - It was indicated previously in the Far-Field Perceived Noise Level section that translating the spike from the forward to the midway position had a small effect on far-field PNL. Further translation to the aft position produced significant changes, however. Figure 53 amplifies these results by showing the angular variation of PNL at 6000 rpm for bypass open and spike bleed open. The data at zero degrees were shown in figure 32.

Corresponding spectra at zero degrees and 6000 rpm are shown in figure 54. Again, the spectra for spike forward and spike midway were similar. The spectrum for spike aft had no peak near the BPF and a lower SPL above 1000 Hz.

Corresponding inlet pressure and Mach number data are shown in figure 29.

Inlet spectra at 6000 rpm, for spike aft, bypass open, spike bleed open are given in figure 55. K1, K3, and K5 here had different axial positions from the spike-forward cases. Referring to figures 5 and 7, K1 was upstream of the throat and opposite K6. K3 was downstream of the throat and opposite K8. K5 was just downstream of the bypass and near the leading edge of the struts. K5 was also opposite K10. The spectrum for K14 was very similar to that for the spike-forward case, shown in figure 41a. The spectral shapes for K5, K3, K1, and F1 changed from the spike-forward case, however. In particular, the peak near the BPF was missing.

The aerodynamic data (figure 29) reveal that when the bypass was open, the minimum wall static pressure was at x/r_c of 2.8, just downstream of the bypass. With the spike aft, this minimum pressure was significantly less than for spike forward or midway. Although choking was not indicated, this strong local acceleration may have affected the sound propagation characteristics.

There may also be a relationship between the change in duct area distribution with spike position and the sound propagation characteristics.

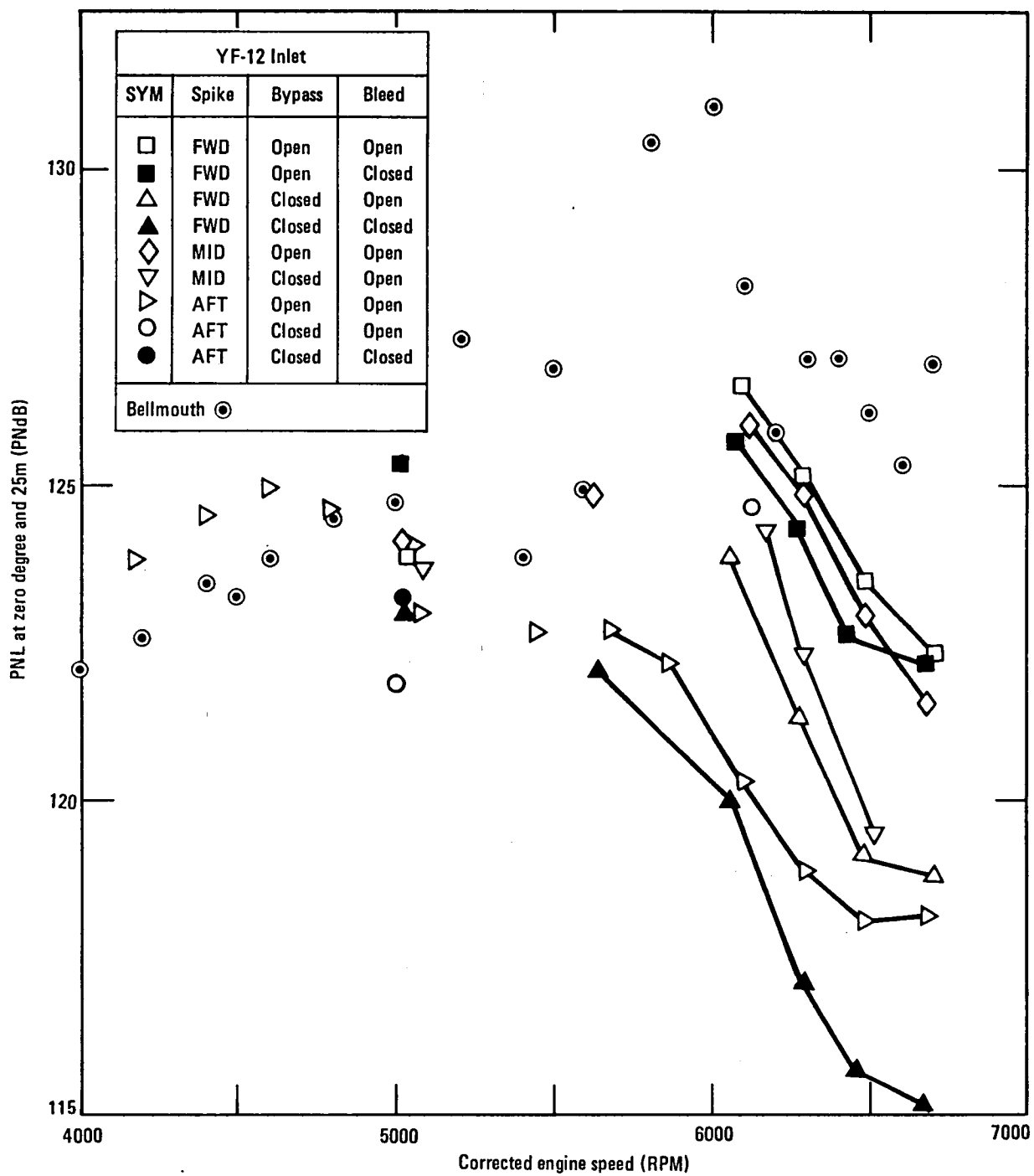


Figure 32. Far-field perceived noise level at zero degrees from inlet centerline and 25 m for YF-12 and bellmouth inlets.

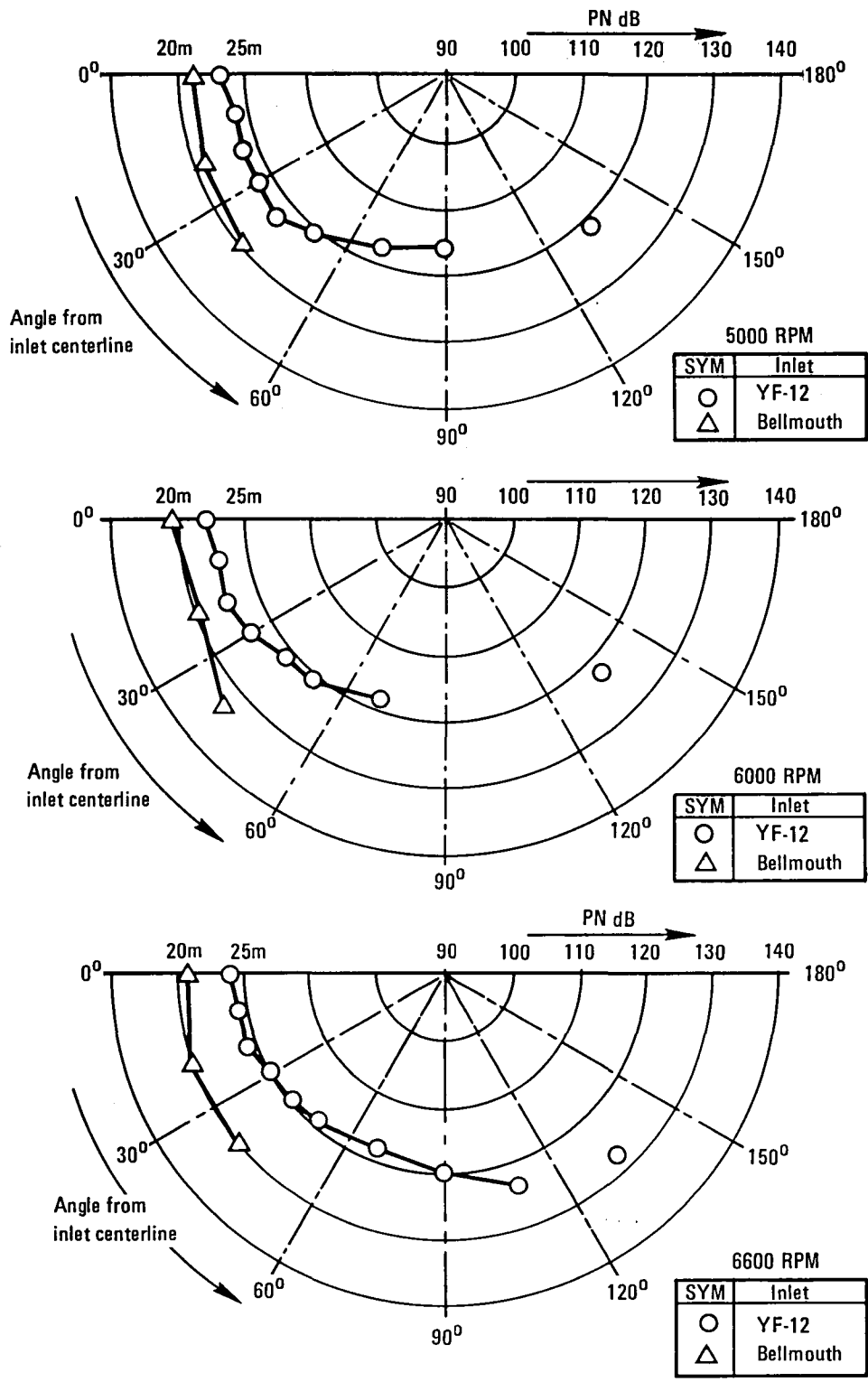


Figure 33. Far-field perceived noise level polars for the YF-12 and bellmouth inlets. YF-12 inlet with spike forward, bypass open, and spike bleed open.

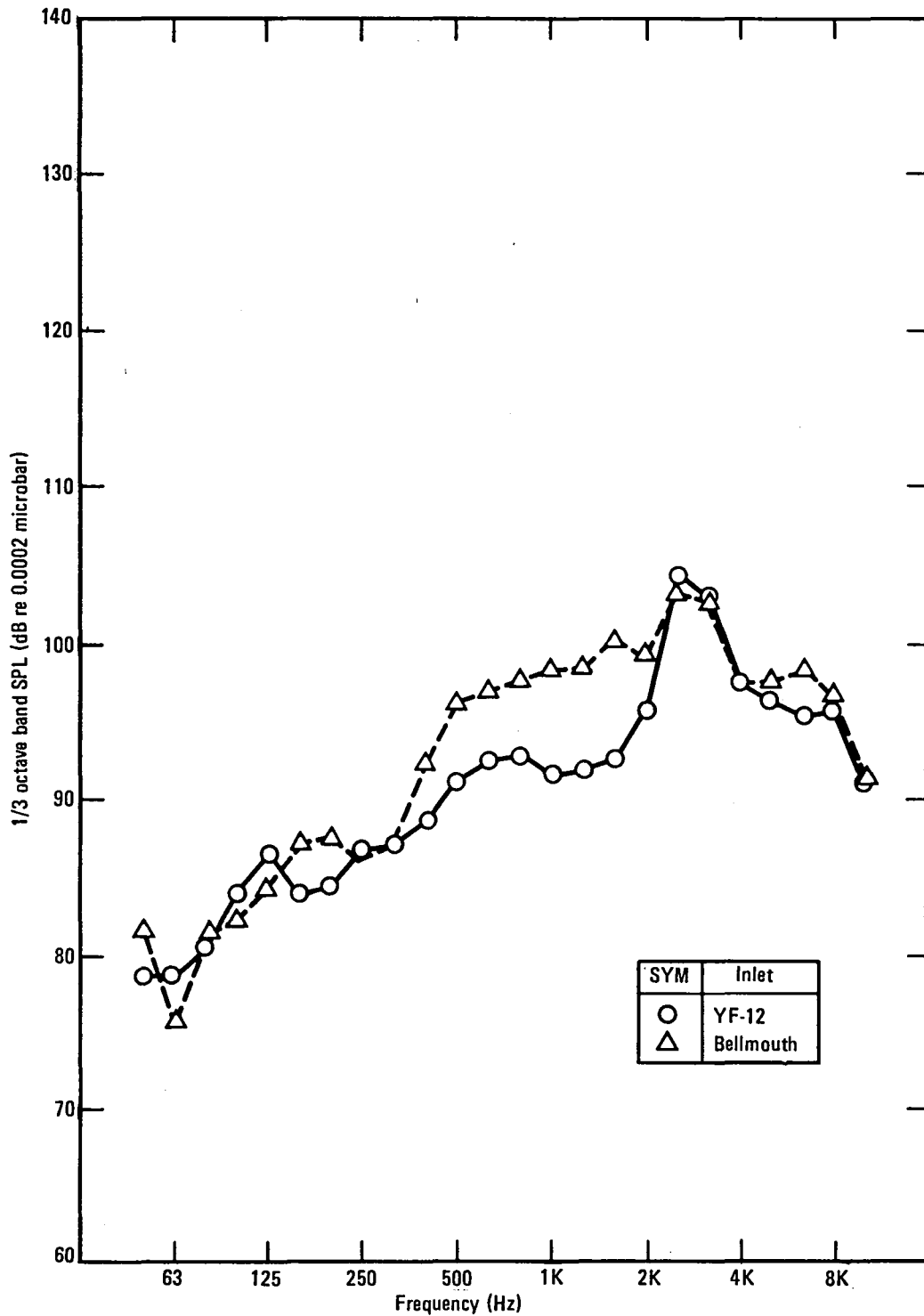


Figure 34. Far-field spectra for YF-12 inlet and bellmouth inlet at zero degrees and 5000 rpm. YF-12 inlet with spike forward, bypass open, and spike bleed open.

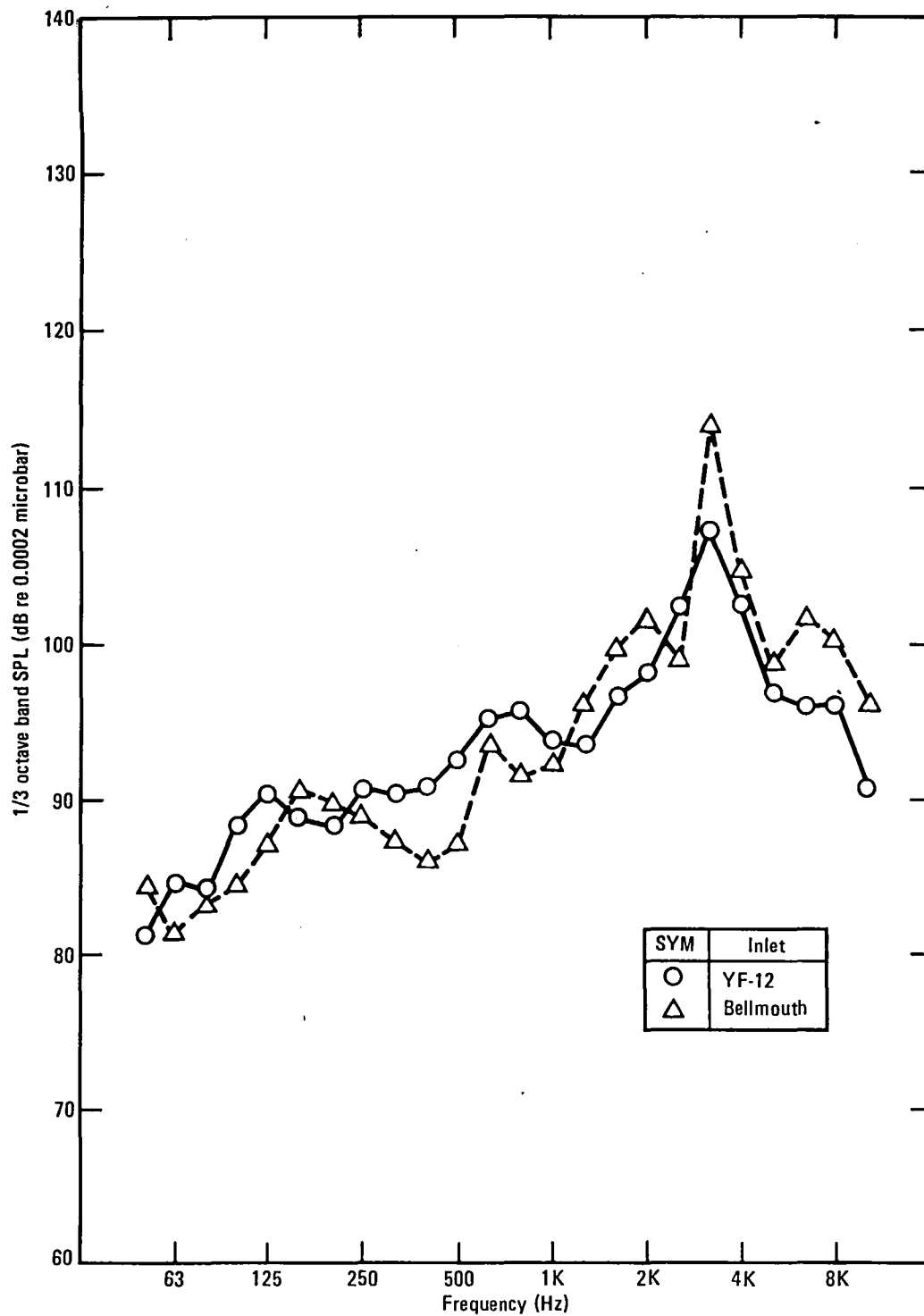


Figure 35. Far-field spectra for YF-12 inlet and bellmouth inlet at zero degrees and 6000 rpm. YF-12 inlet with spike forward, bypass open, and spike bleed open.

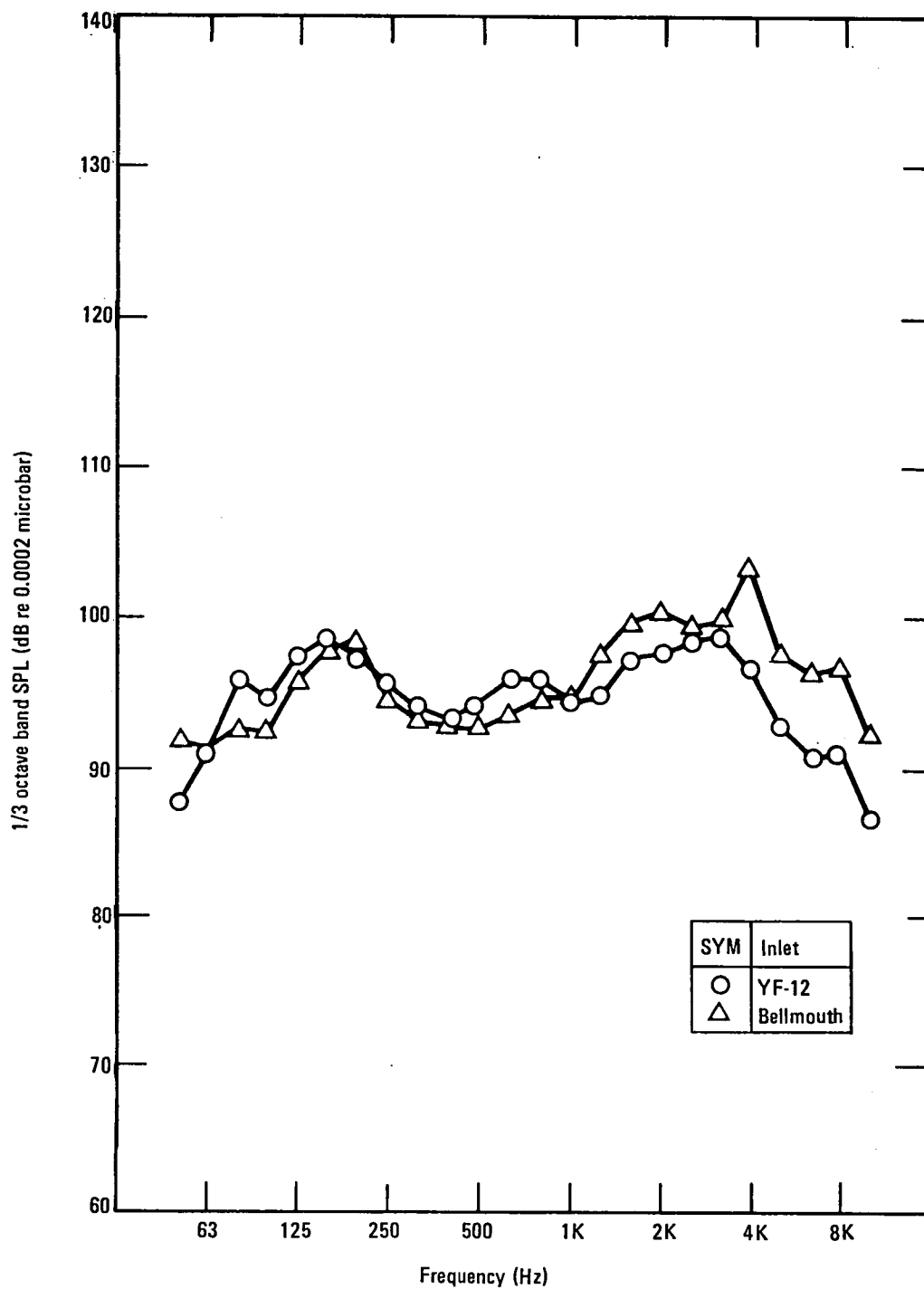


Figure 36. Far-field spectra for YF-12 inlet and bellmouth inlet at zero degrees and 6600 rpm. YF-12 inlet with spike forward, bypass open, and spike bleed open.

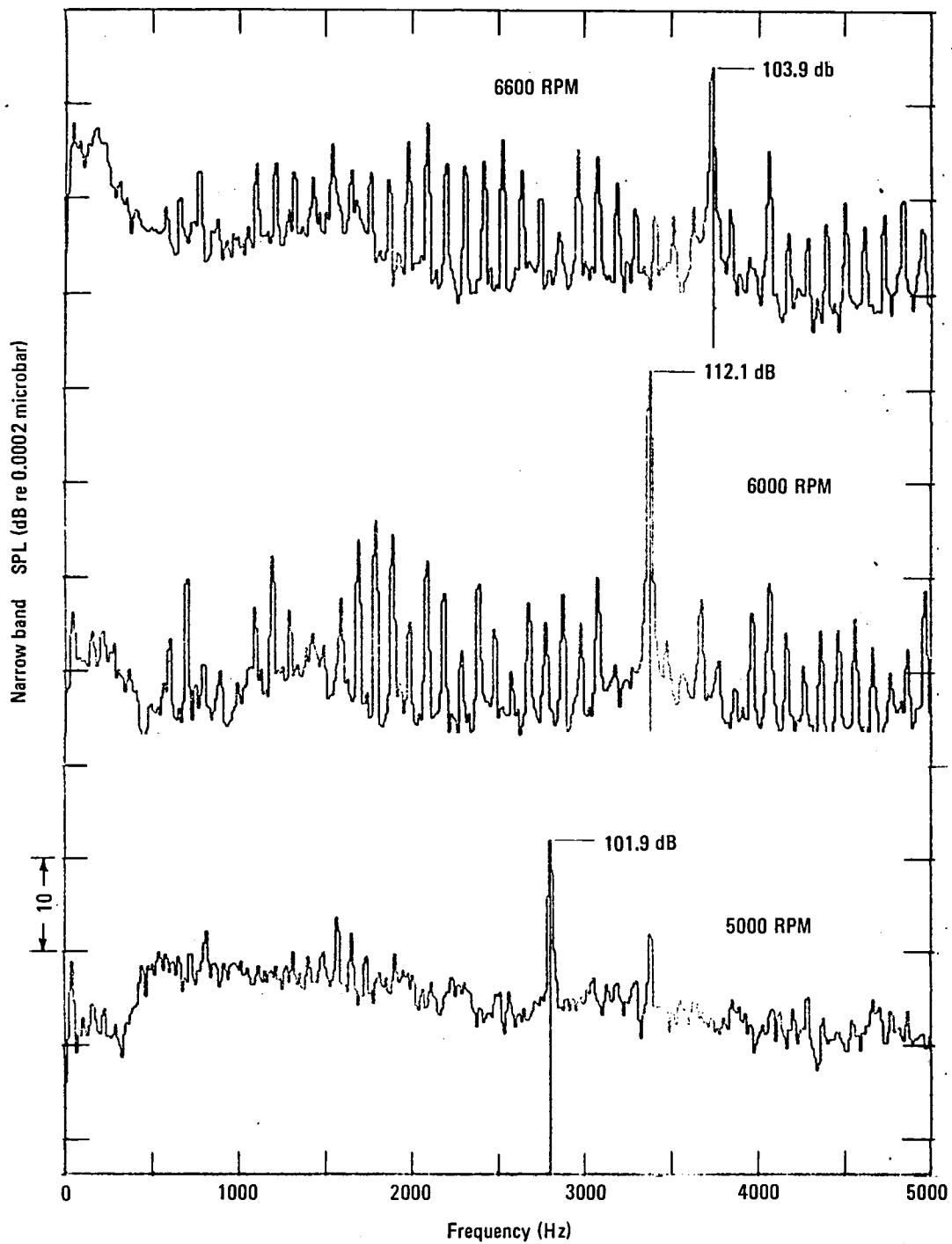


Figure 37. Narrow-band spectra for the bellmouth inlet.

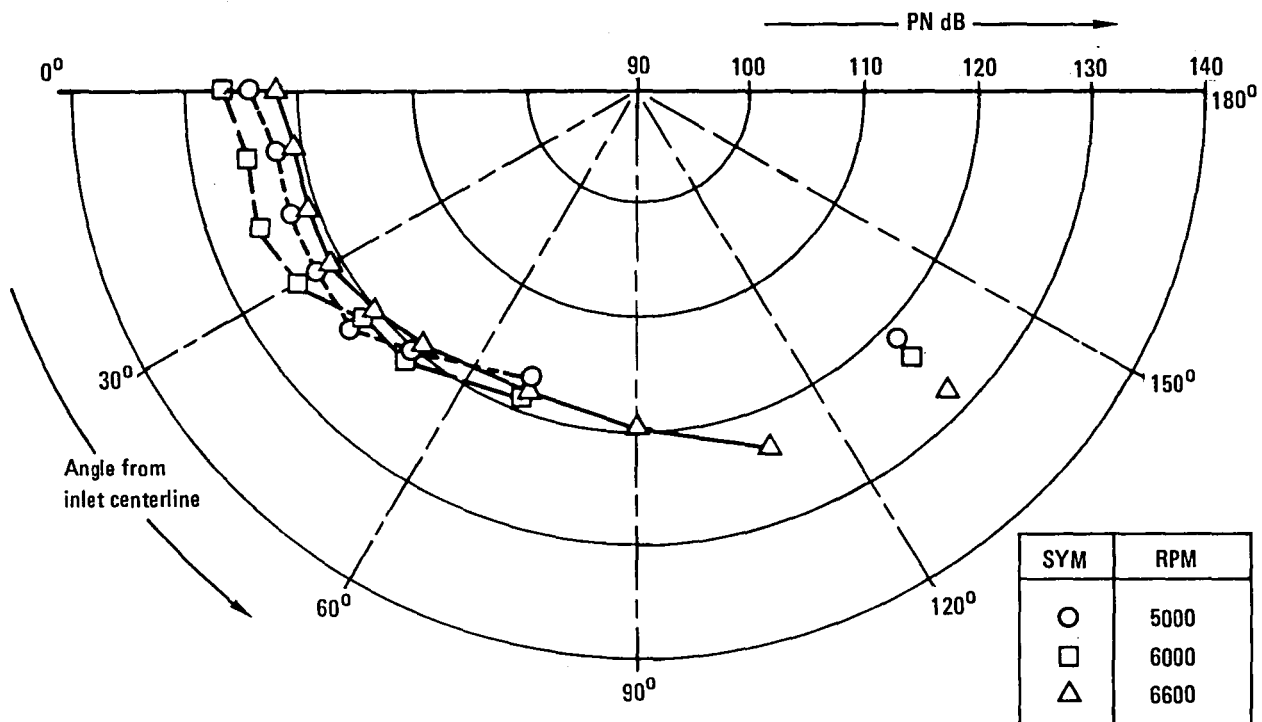


Figure 38. Effect of engine speed on far-field perceived noise level for YF-12 inlet: spike forward, bypass open, spike bleed open.

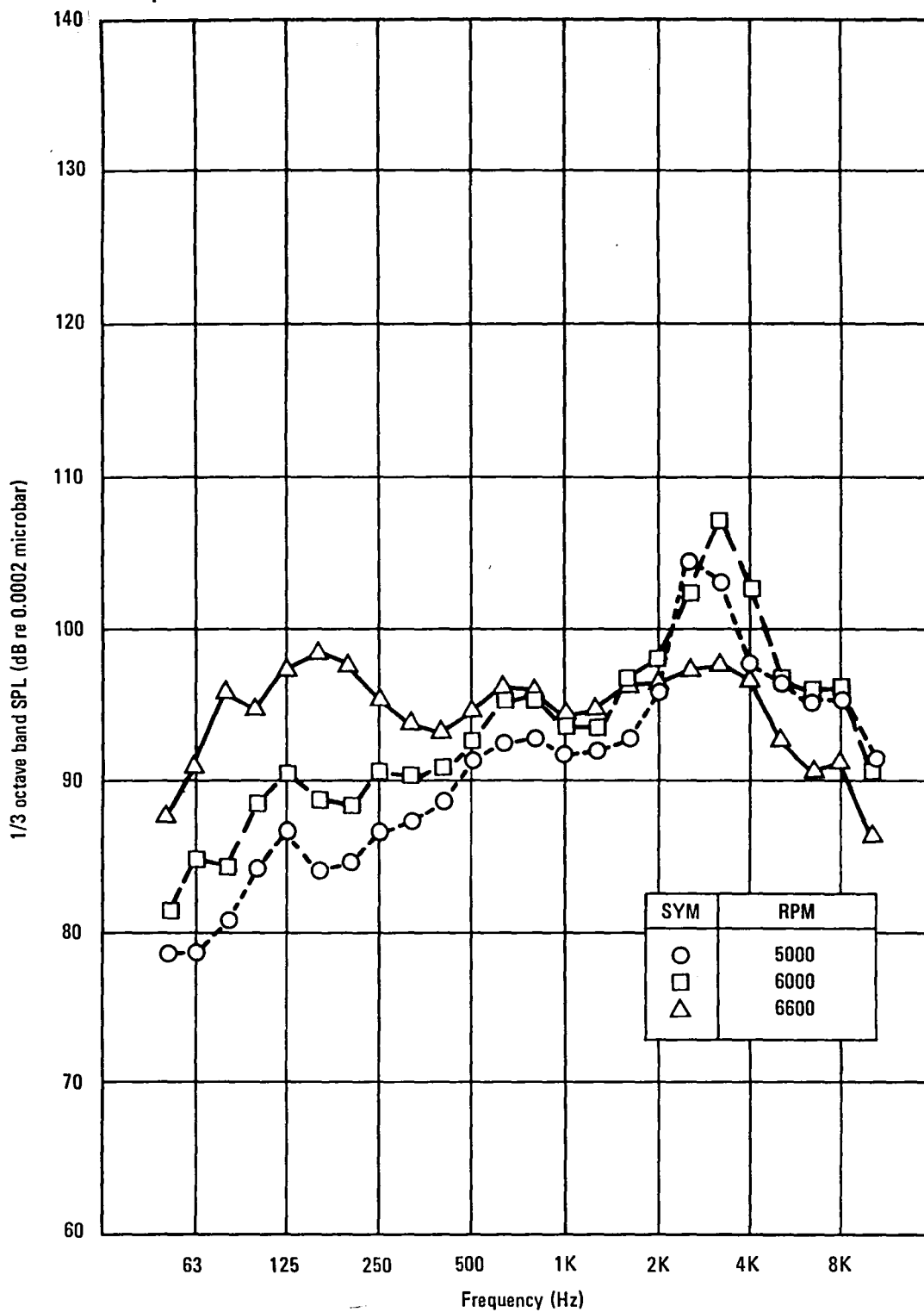


Figure 39. Effect of engine speed on far-field spectra at zero degrees for YF-12 inlet: spike forward, bypass open, spike bleed open.

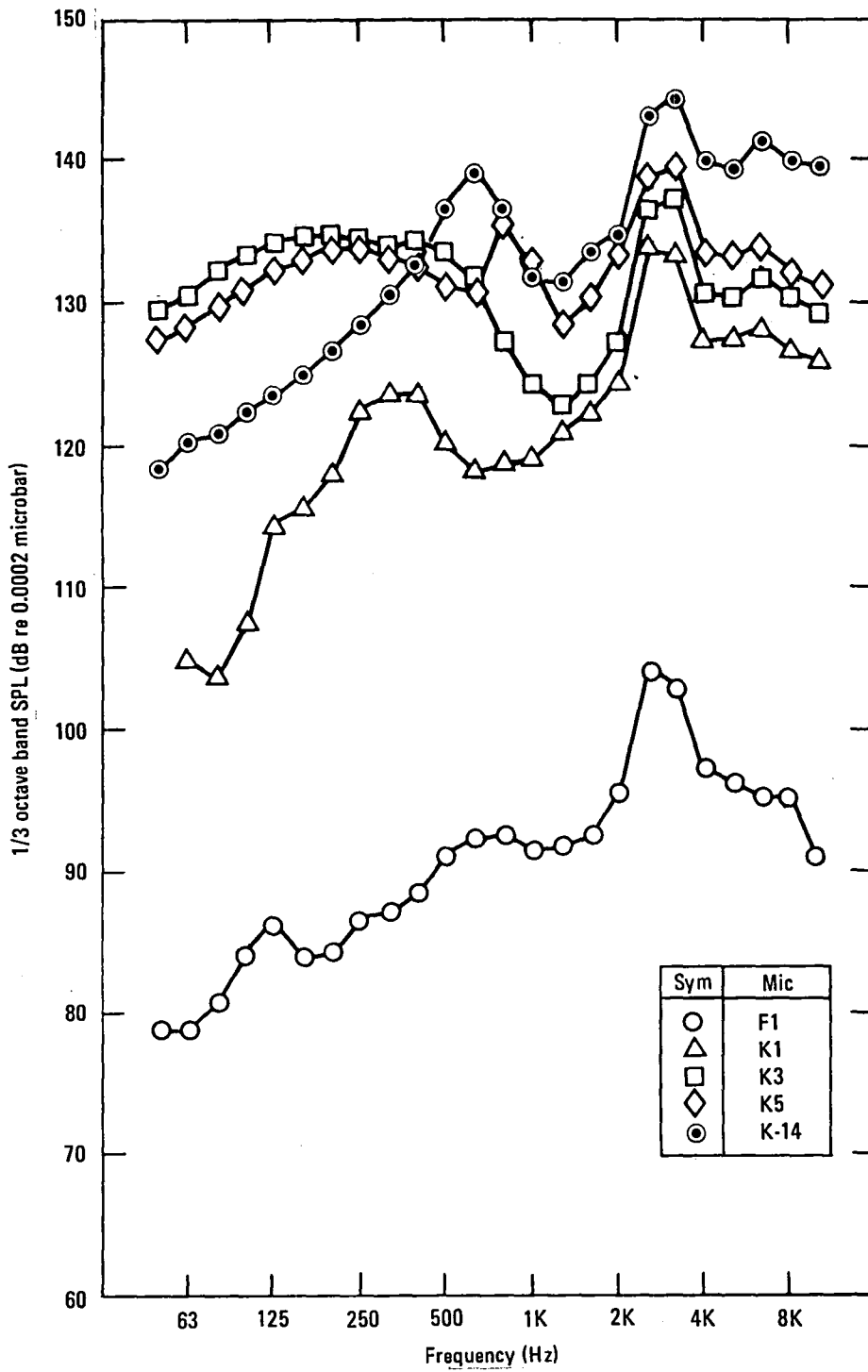


Figure 40a. YF-12 inlet spectra at 5000 rpm, spike forward, bypass open, and spike bleed open: one-third octave band.

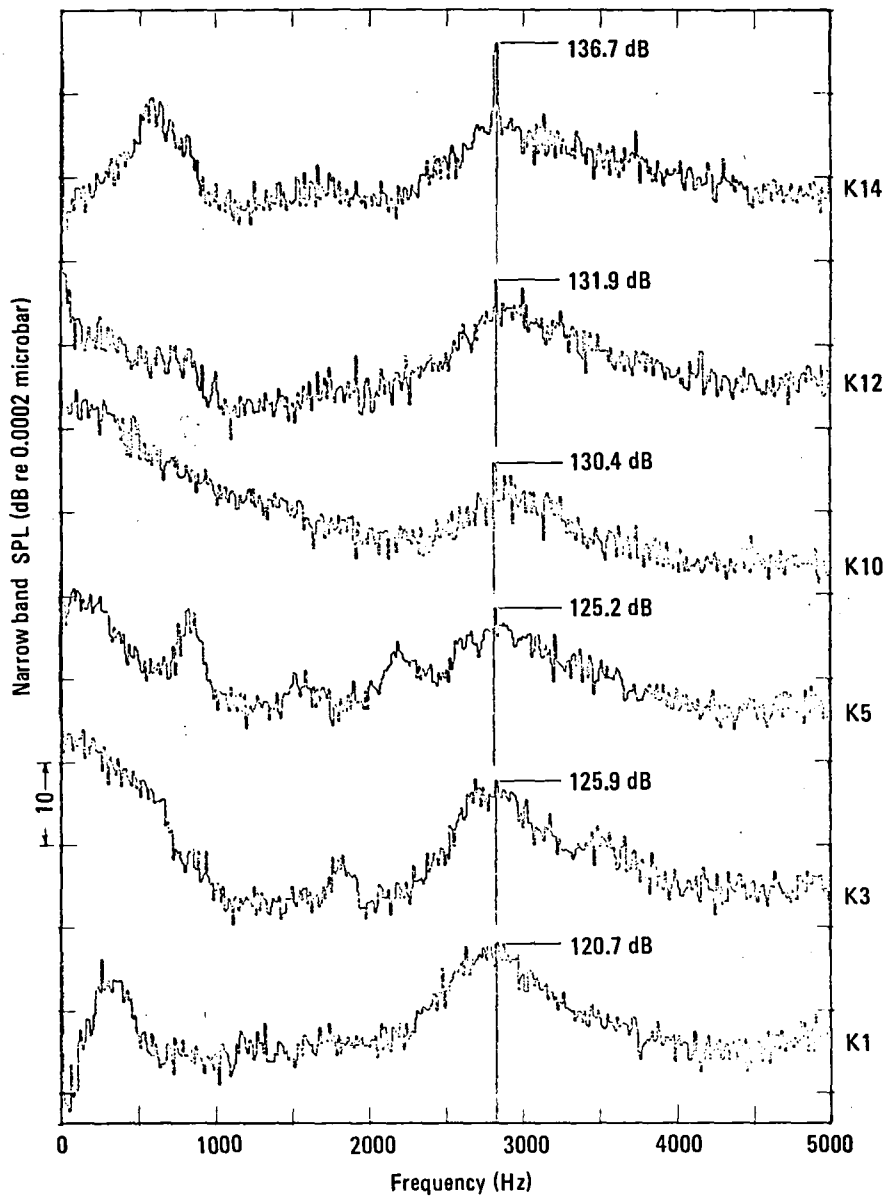


Figure 40b. YF-12 inlet spectra at 5000 rpm, spike forward, bypass open, and spike bleed open: narrow band.

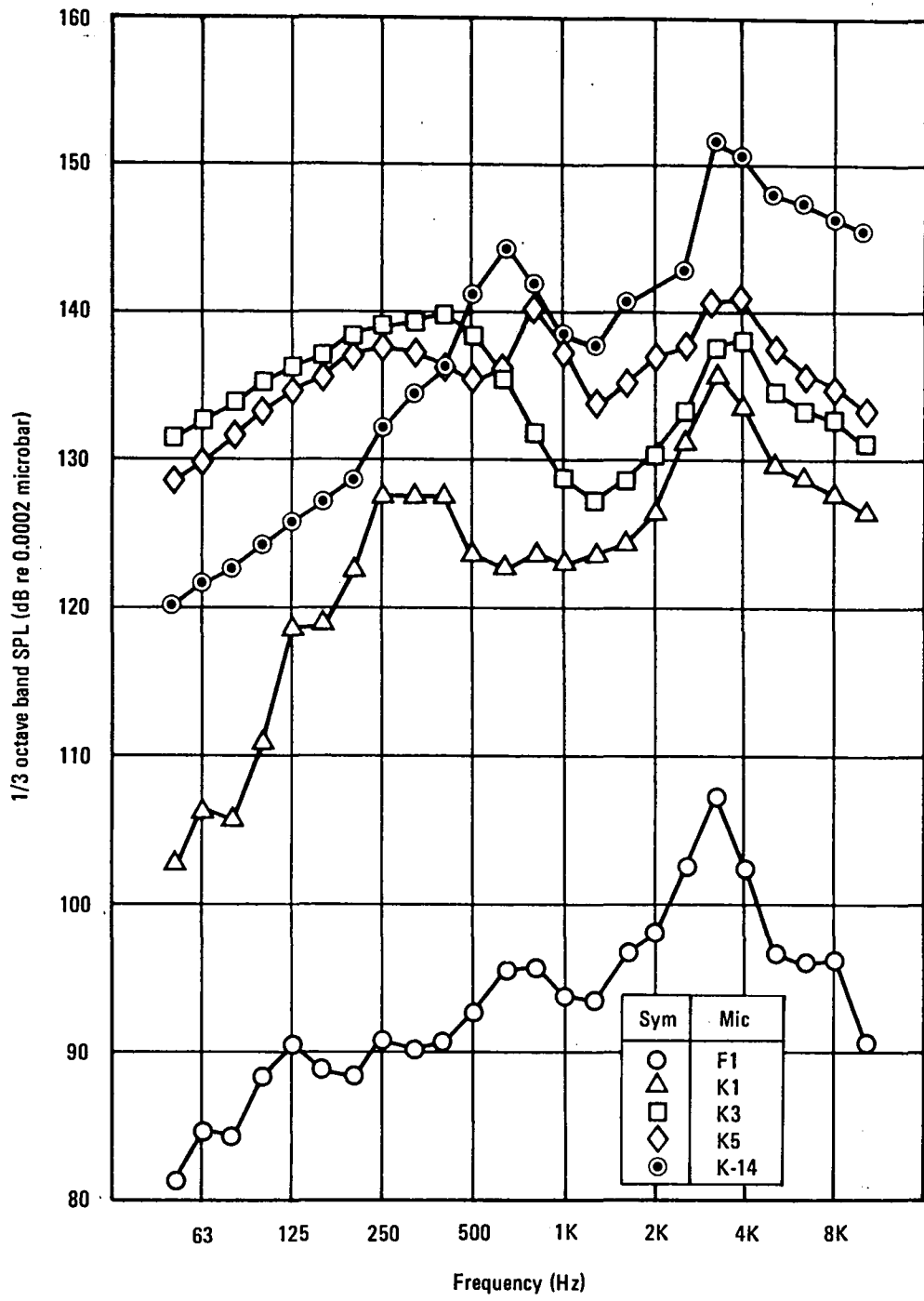


Figure 41a. YF-12 inlet spectra at 6000 rpm, spike forward, bypass open, and spike bleed open: one-third octave band.

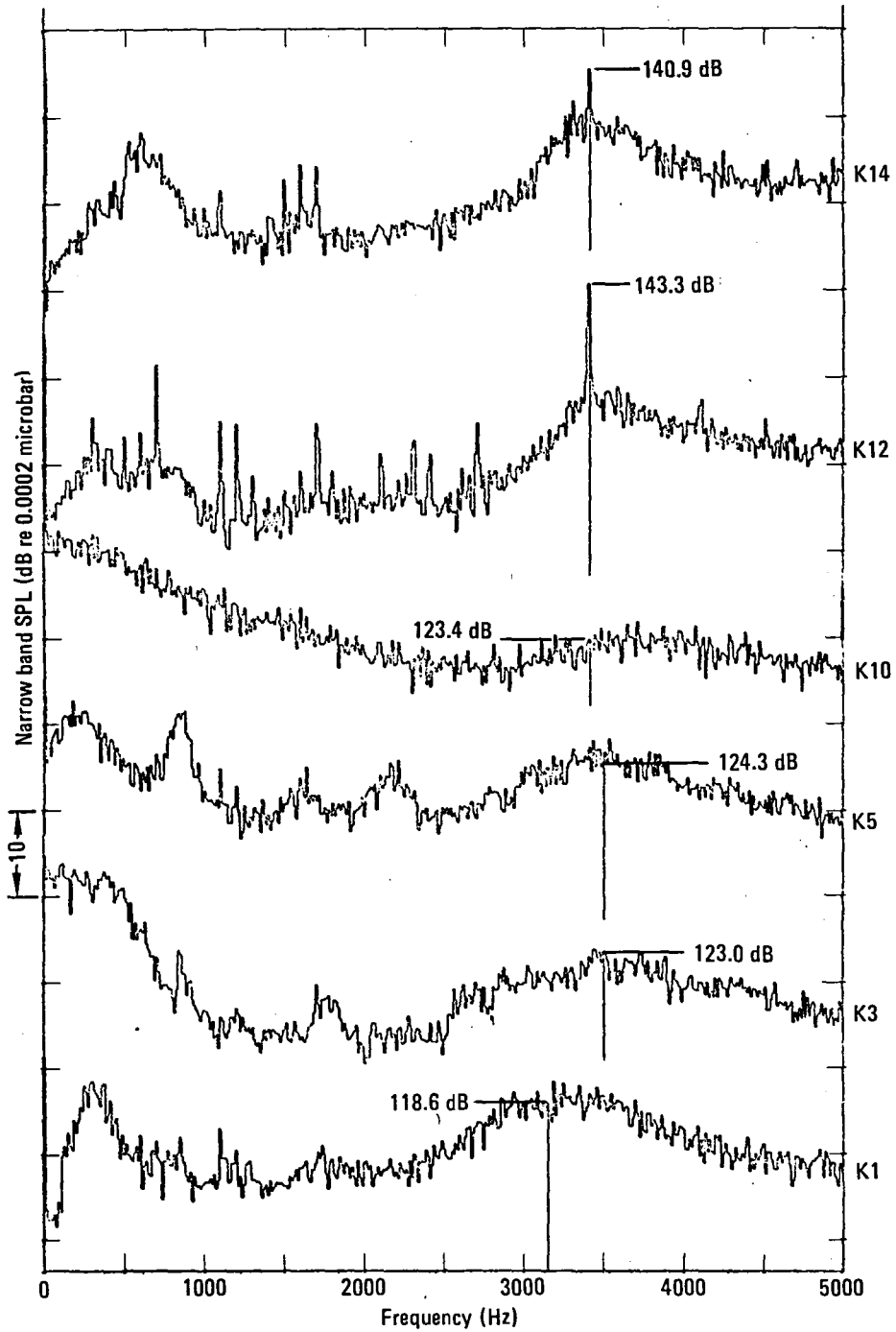


Figure 41b. YF-12 inlet spectra at 6000 rpm, spike forward, bypass open, and spike bleed open: narrow band.

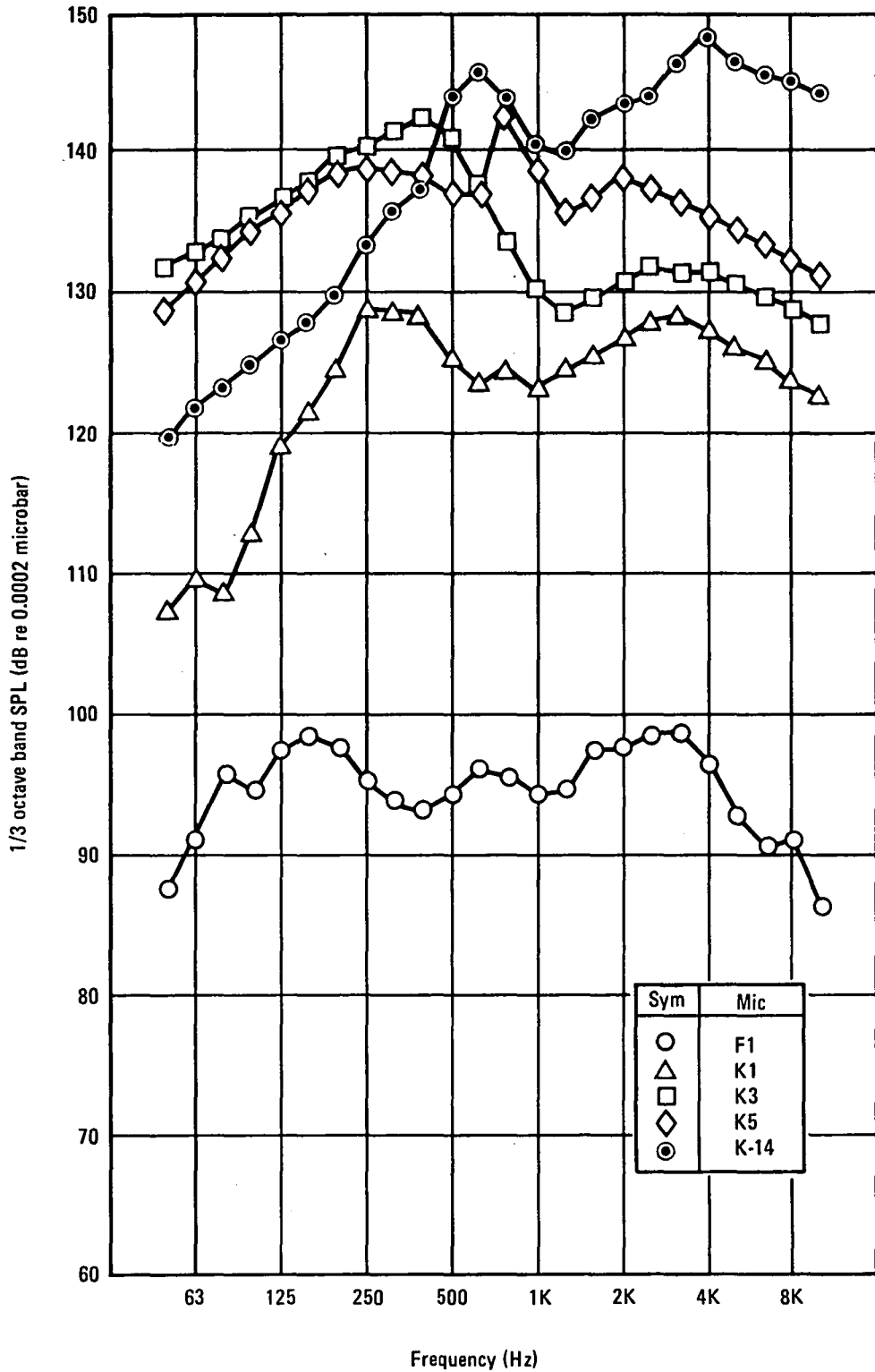


Figure 42a. YF-12 inlet spectra at 6600 rpm, spike forward, bypass open, and spike bleed open: one-third octave band.

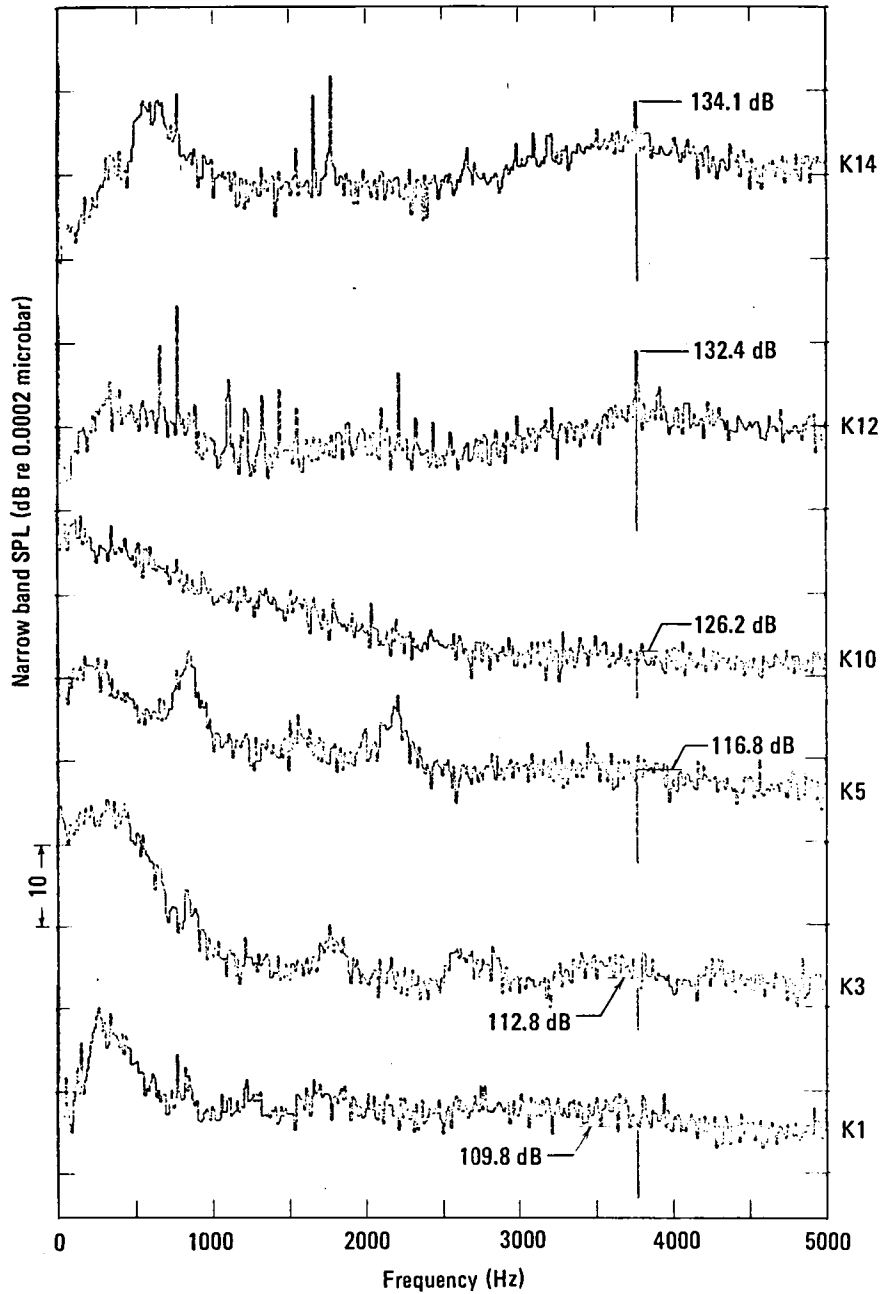


Figure 42b. YF-12 inlet spectra at 6600 rpm, spike forward, bypass open, and spike bleed open: narrow band.

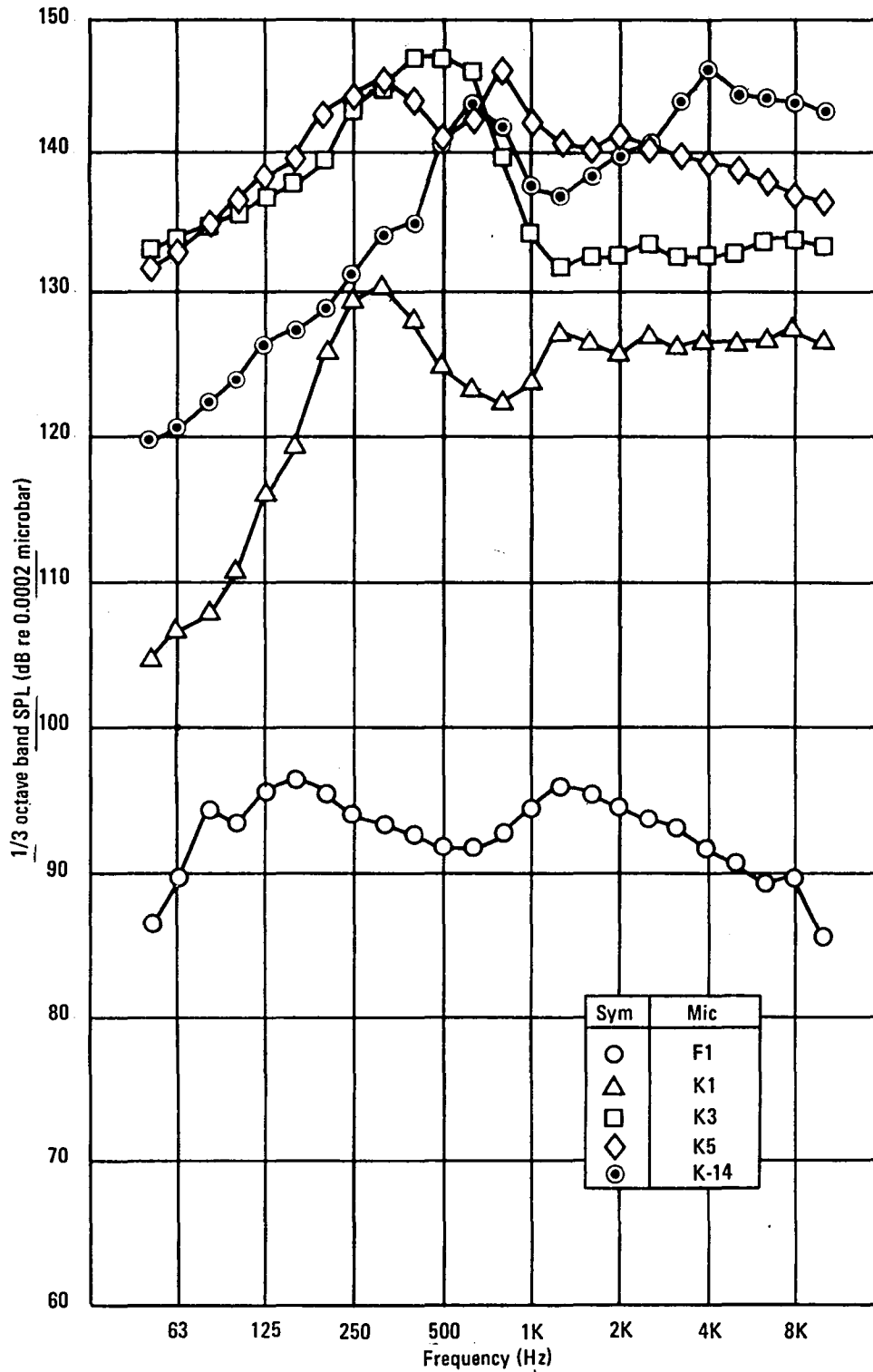


Figure 43. YF-12 inlet spectra at 6600 rpm, spike forward, bypass closed, spike bleed open.

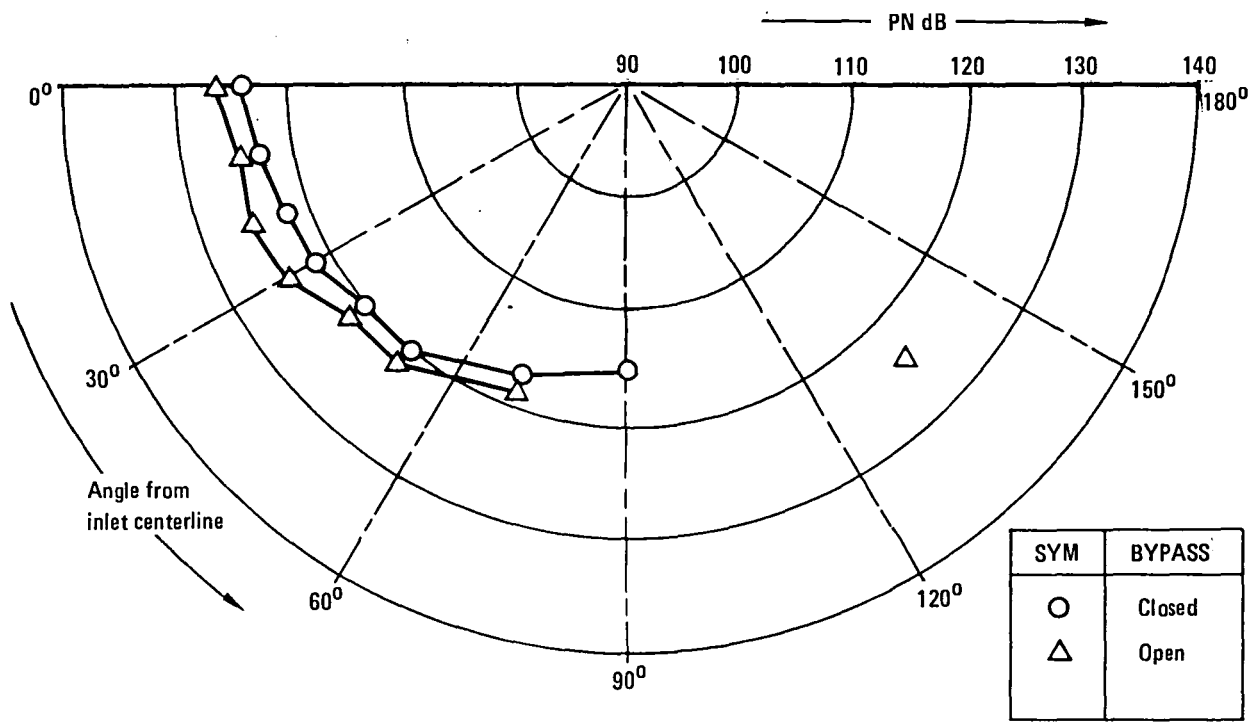


Figure 44. Effect of bypass opening on far-field perceived noise level for YF-12 inlet at 6000 rpm, spike forward, spike bleed open.

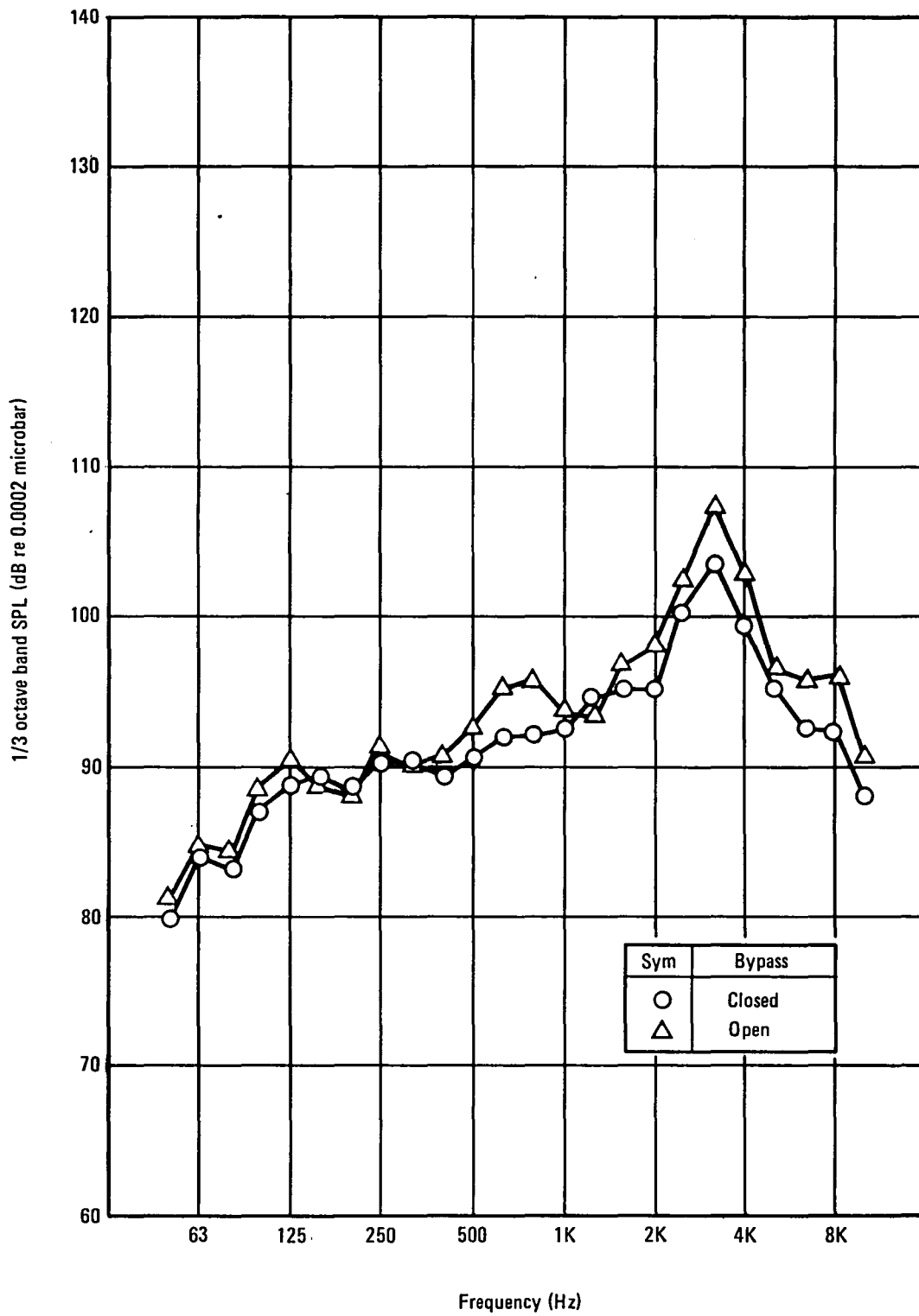


Figure 45. Effect of bypass opening on far-field spectra for YF-12 inlet at zero degrees: 6000 rpm, spike forward, spike bleed open.

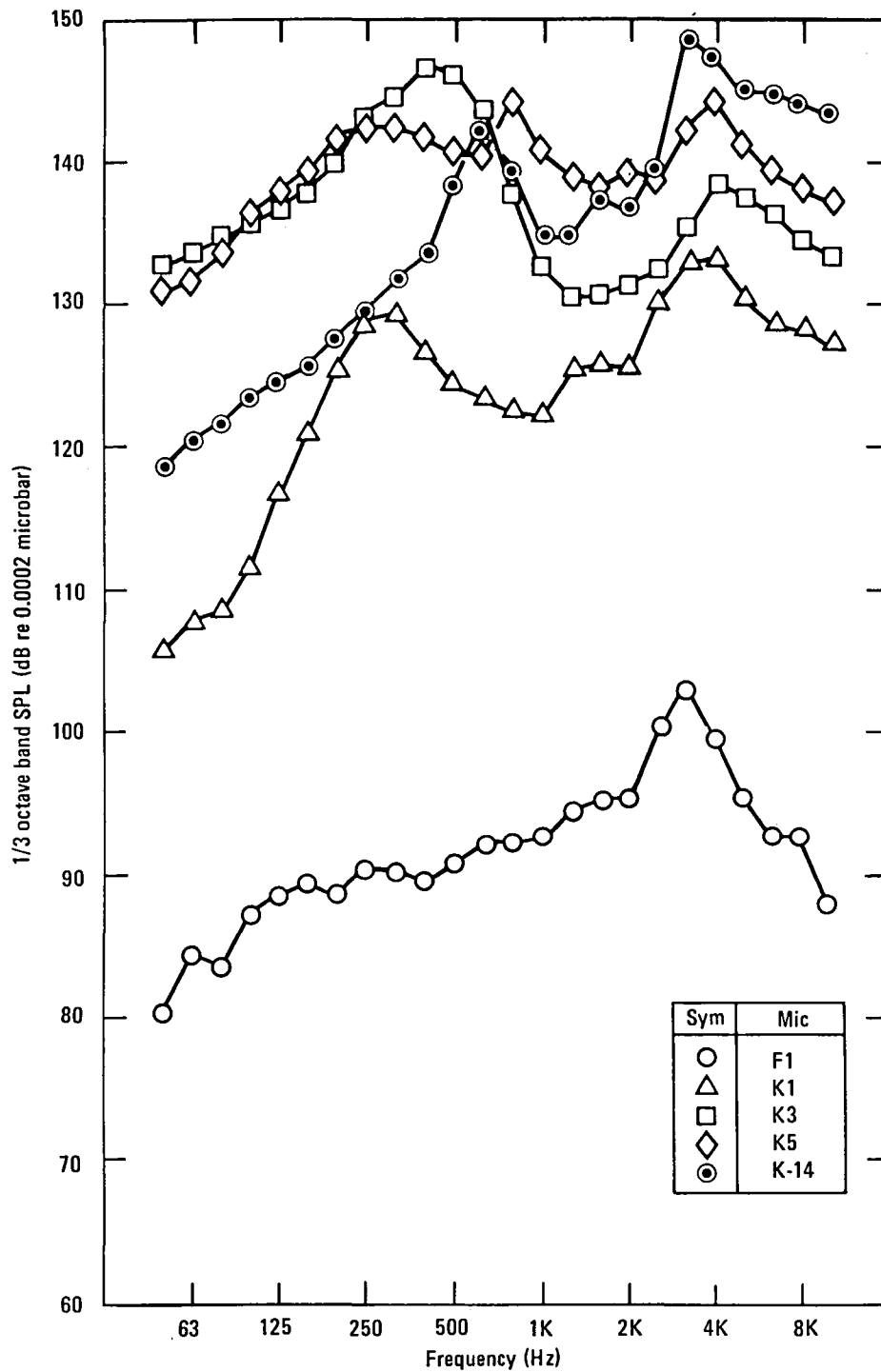


Figure 46a. YF-12 inlet spectra at 6000 rpm, spike forward, bypass closed, and spike bleed open: one-third octave band.

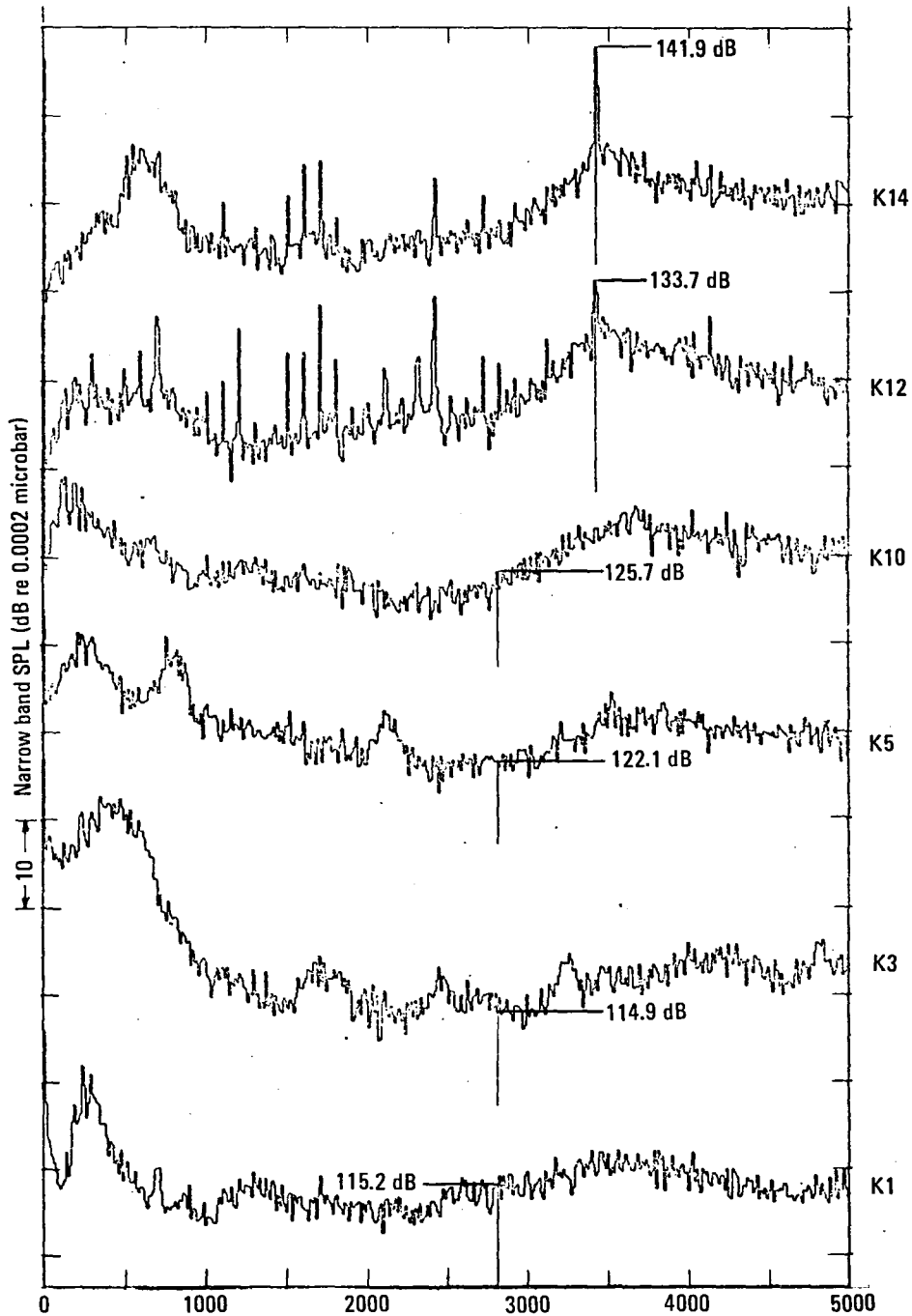


Figure 46b. YF-12 inlet spectra at 6000 rpm, spike forward, bypass closed, and spike bleed open: narrow band.

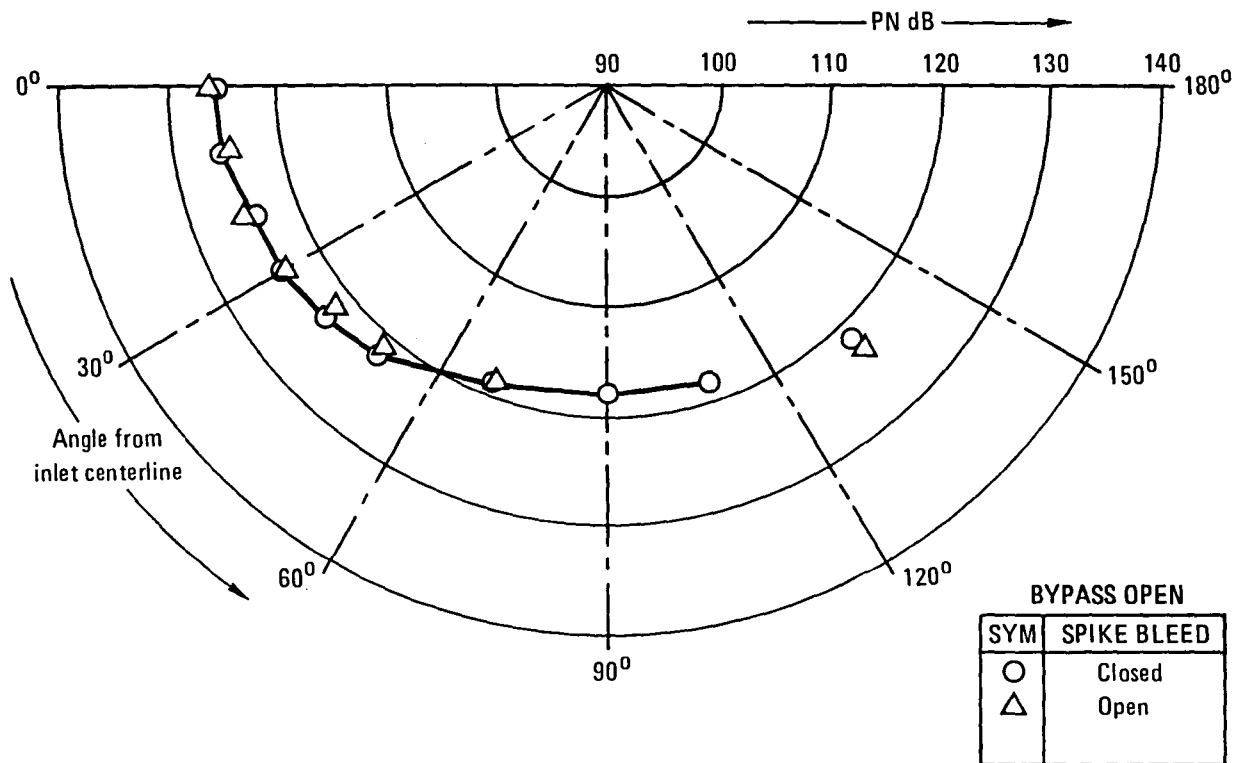


Figure 47. Effect of spike bleed opening on far-field perceived noise level for YF-12 inlet at 6000 rpm, spike forward, bypass open.

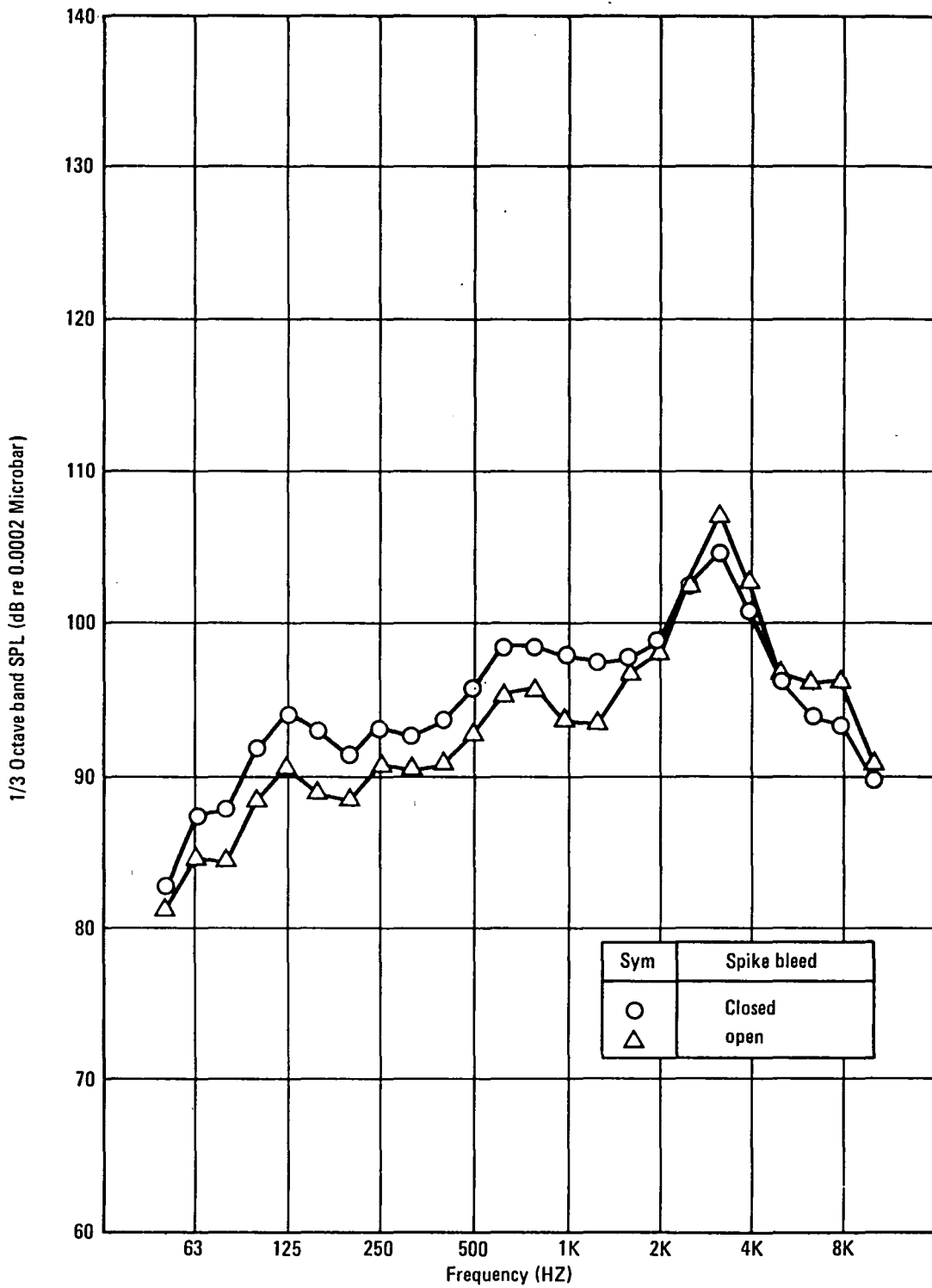


Figure 48. Effect of spike bleed opening on far-field spectra for YF-12 inlet at zero degrees: 6000 rpm, spike forward, bypass open.

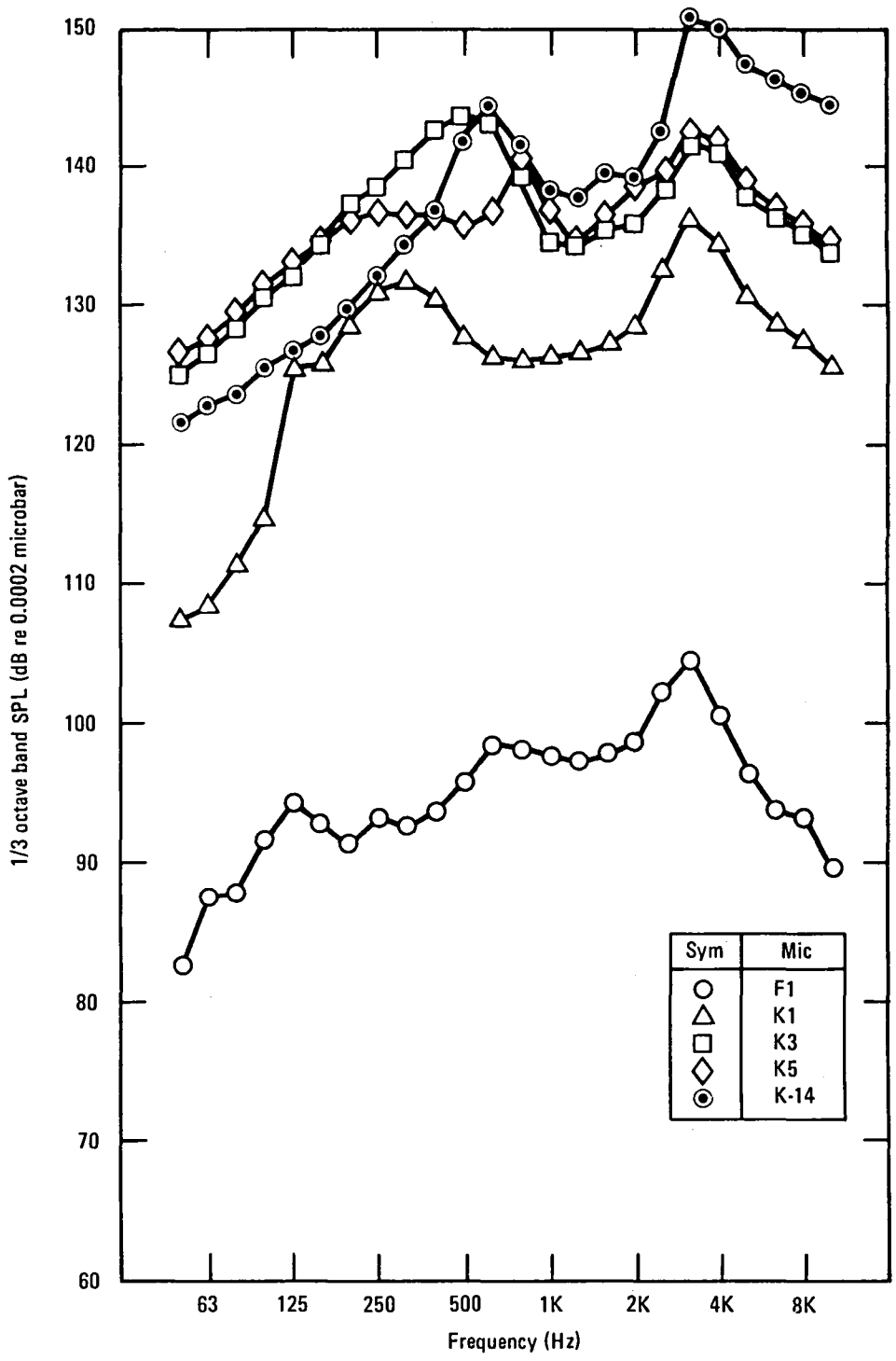


Figure 49. YF-12 inlet spectra at 6000 rpm, spike forward, bypass open, and spike bleed closed.

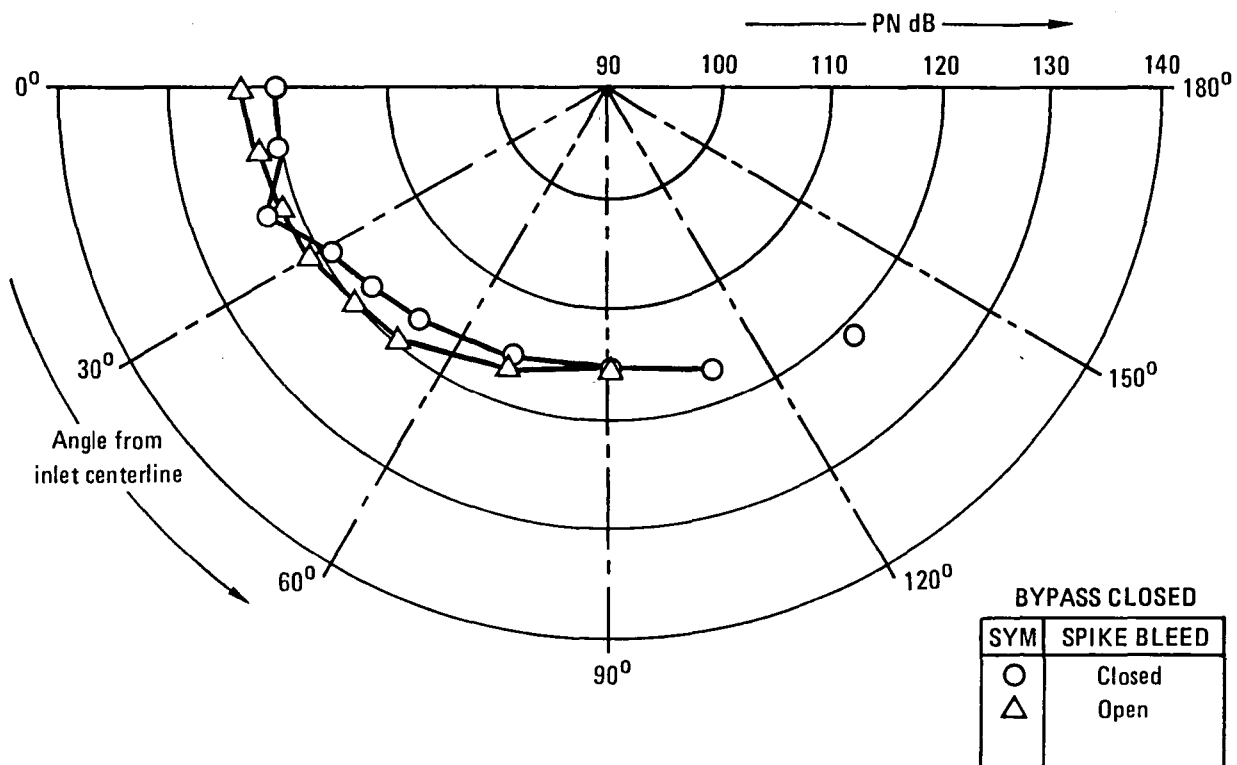


Figure 50. Effect of spike bleed opening on far-field perceived noise level for YF-12 inlet at 6000 rpm, spike forward, bypass closed.

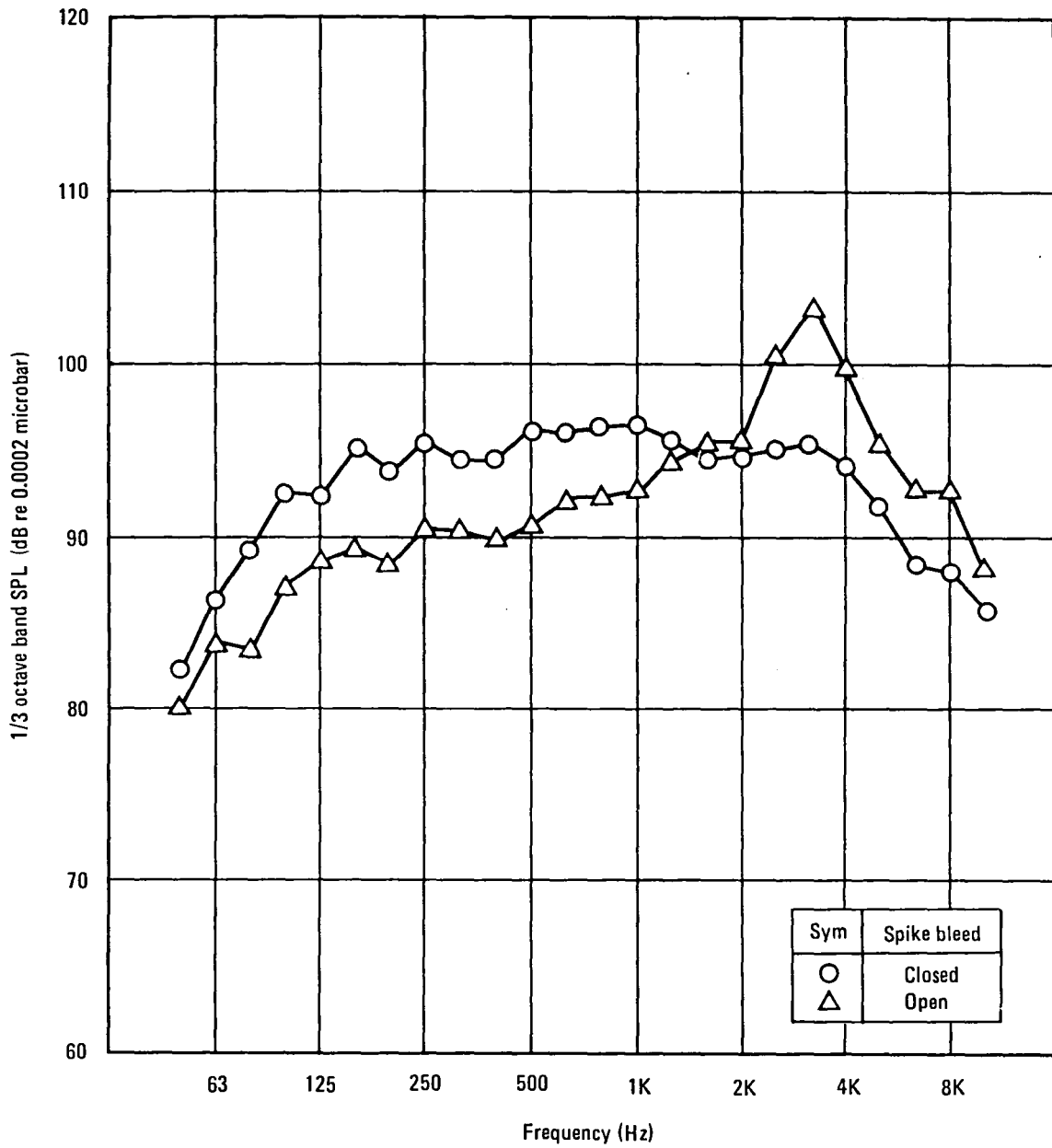


Figure 51. Effect of spike bleed opening on far-field spectra for YF-12 inlet at zero degrees: 6000 rpm, spike forward, bypass closed.

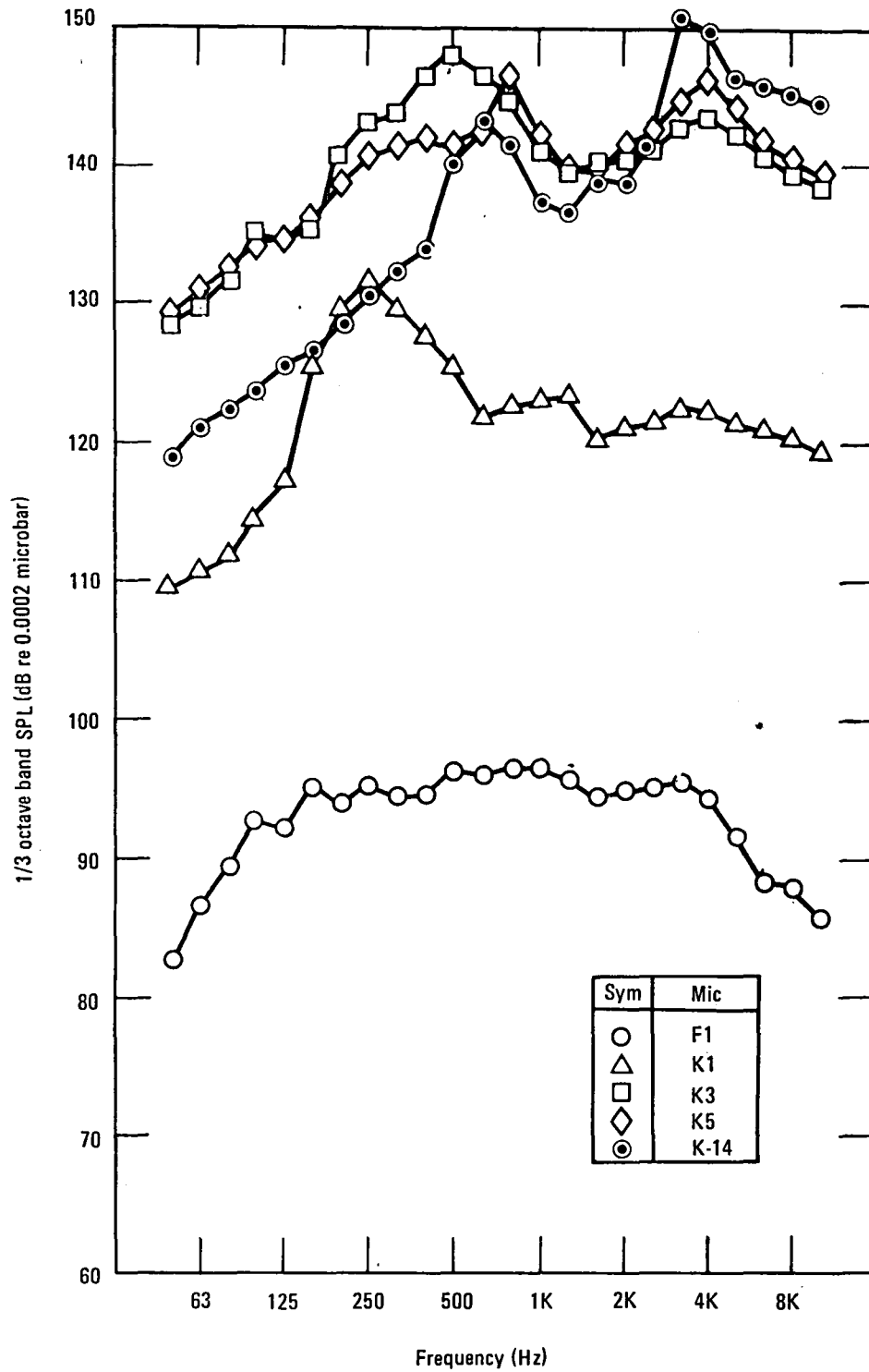


Figure 52. YF-12 inlet spectra at 6000 rpm, spike forward, bypass closed, spike bleed closed.

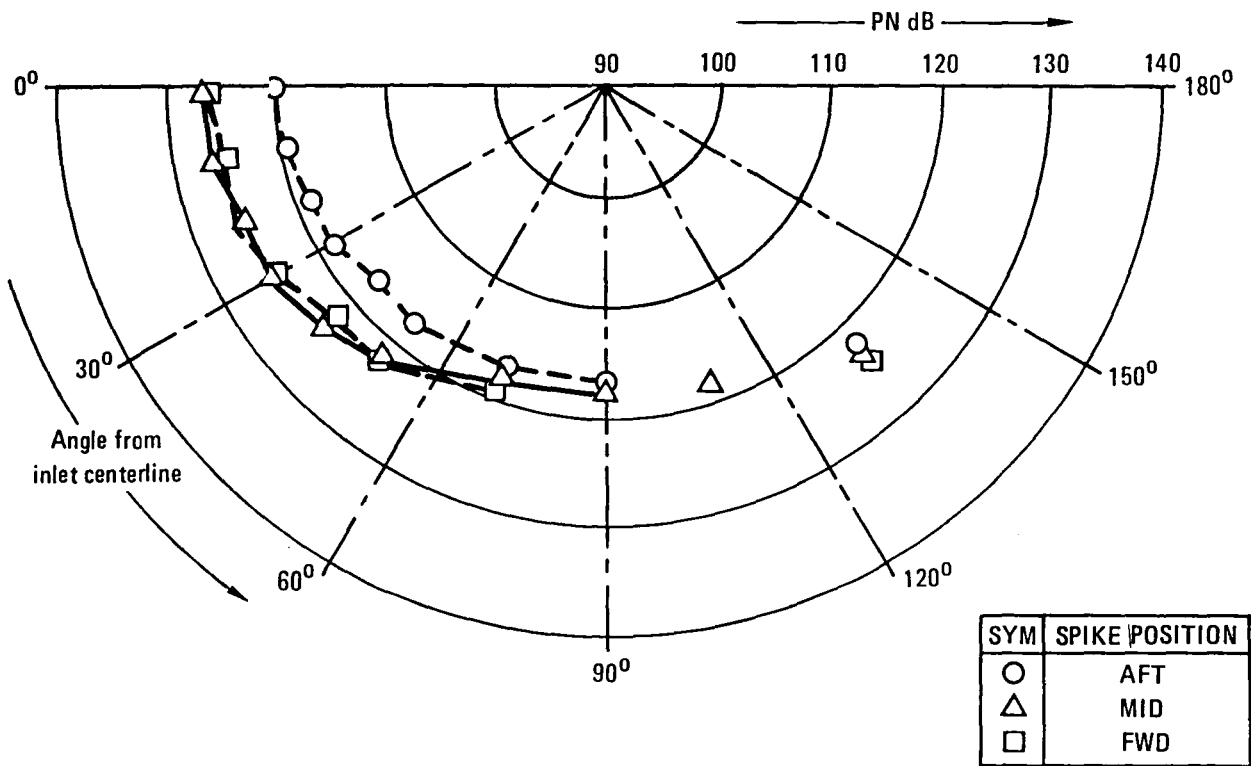


Figure 53. Effect of spike position on far-field perceived noise level for YF-12 inlet at 6000 rpm, bypass open, spike bleed open.

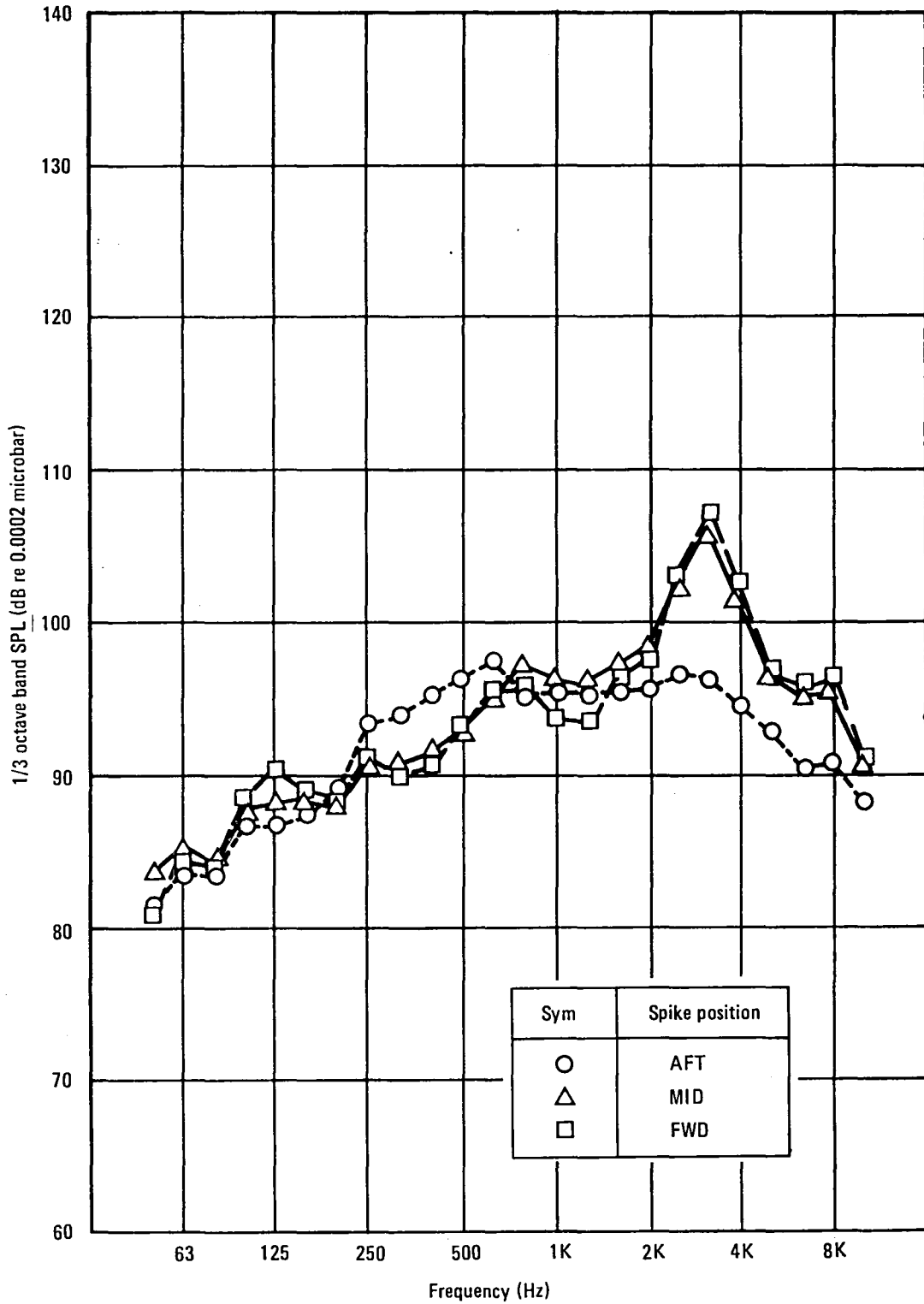


Figure 54. Effect of spike position on far-field spectra for YF-12 inlet at zero degrees: 6000 rpm, bypass open, spike bleed open.

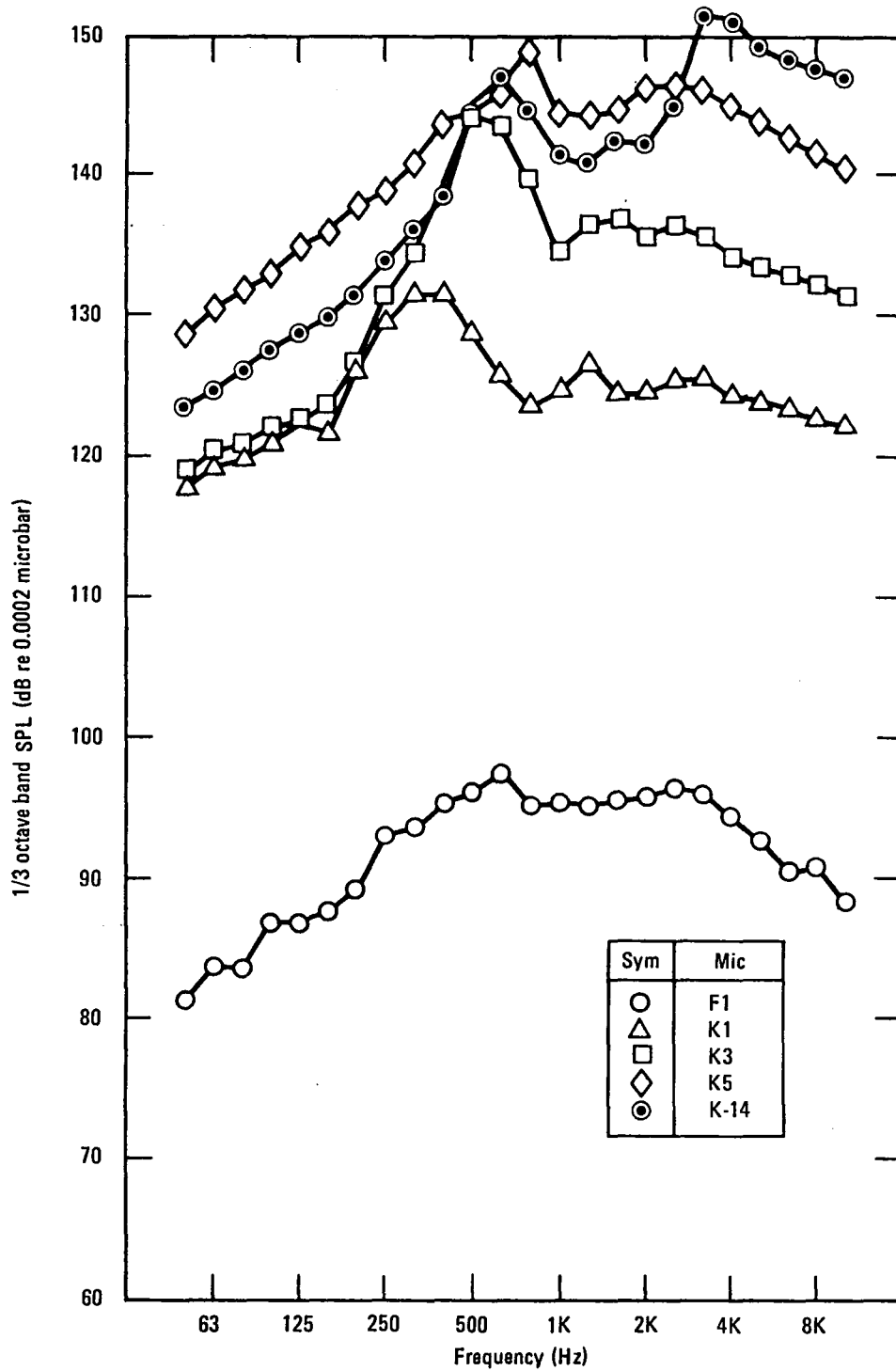


Figure 55. YF-12 inlet spectra at 6000 rpm, spike aft, bypass open, spike bleed open.

CONCLUSIONS

The far-field noise level for the YF-12 inlet was significantly less than for a bellmouth inlet at engine speeds above about 5500 rpm. With spike forward, bypass open, and spike bleed open, differences of up to 5 PNdB were measured at zero degrees and approximately 25 m. At these conditions, the YF-12 inlet was not near choking at any of the engine speeds tested. The spectral peak near the blade-passing frequency disappeared in the region of the spike support struts at engine speeds between 6000 and 6600 rpm, however. Also multiple pure tones were significantly reduced in the region of the spike support struts.

Other YF-12 inlet configurations produced even lower noise levels. For spike forward, bypass closed, and spike bleed closed, differences of up to 11 PNdB were measured at zero degrees and 25 m.

Far-field noise level was significantly lower with the bypass doors closed than open. With the spike forward and the spike bleed open, differences of 3 to 4 PNdB were measured at engine speeds above 6000 rpm. With the spike bleed closed, the differences were 6 to 7 PNdB.

Closing the spike bleed perforations reduced far-field noise by about one PNdB when the bypass was open. When the bypass was closed, however, closing the spike bleed produced a reduction of about 4 PNdB.

The lower noise levels that occurred with the spike bleed closed may have been related to the higher local Mach numbers near the cowl lip. If so, then spike bleed closure would have a smaller effect when the aircraft had forward speed.

Spike translation from forward to midway position produced only small changes in far-field noise with bypass open and spike bleed open. For the spike aft position there was a 4 to 6 PNdB reduction relative to spike forward, however. This reduction may have been related to the strong local flow acceleration near the bypass.

REFERENCES

1. Putnam, T. W.; and Smith, R. H.: XB-70 Compressor Noise Reduction and Propulsion System Performance for Choked Inlet Flow. NASA TN-D-5692, March 1970.
2. Bangert, L. H.; Burcham, F. W., Jr.; and Mackall, K. G.: YF-12 Inlet Suppression of Compressor Noise: First Results. AIAA Paper 80-0099, January 1980.
3. Tyler, J. M.; and Sofrin, T. G.: Axial Compressor Noise Studies. SAE Transactions, Vol. 70, 1962, pp. 309-332.

APPENDIX A
TABULATIONS OF AERODYNAMIC DATA

(THIS PAGE LEFT INTENTIONALLY BLANK)

APPENDIX A

TABULATIONS OF AERODYNAMIC DATA

This appendix contains tabulations of all of the YF-12 inlet aerodynamic data that was reduced. Table A-1 shows the runs that were reduced.

The tabulated pressure data were normalized by the ambient pressure.

(THIS PAGE LEFT INTENTIONALLY BLANK)

TABLE A-1. RUN NUMBERS FOR REDUCED YF-12 AERODYNAMIC DATA

ENGINE SPEED (RPM)	SPIKE FORWARD		SPIKE MIDWAY		SPIKE AFT	
	BYPASS OPEN	BYPASS CLOSED	BYPASS OPEN	BYPASS CLOSED	BYPASS OPEN	BYPASS CLOSED
IDLE	35, 145, 187	7, 93	55	70	124	63
4000	36	8, 94				64
4200	37, 146, 188	9, 95, 157	115	71	125, 173, 208	65, 181
4300					126	
4400	38	10, 96			127	66, 182
4500					128	
4600	39, 147, 189	11, 97	116, 200	72	129	183
4700					130	
4800	40	12, 98			131	184
4900					132	
5000	41, 87, 142, 148, 190	13, 99, 158	56, 166, 201	73	133, 174	69, 185
5200	42	15, 100		74		
5400	43, 149, 191	14, 101			134	
5500	143	16, 102		76		
5600	44, 150, 192	17, 103, 159	57, 167, 202	77	175, 211	
5700	144	18, 104				
5800	45, 151, 193	19, 105	118	79	135	
5900	46	20, 106		80		
6000	47, 88, 152, 194	21, 107, 160	58, 168, 203	81	136, 176	
6100	48	22, 108	119	82		
6200	49, 89, 153	23, 109, 161	59, 169, 204	83	137, 177	
6300	50	24, 110	120	84		
6400	51, 90, 154, 196	25, 111, 162	60, 170	85	138, 178	
6500	52	26, 112	122			
6600	53, 91, 155, 197	27, 113, 163	206		139	

Notes: 1. Runs 145-216, spike bleed taped
 2. Runs 187-216, bypass louvers removed

VF-12 INLET NOISE SUPPRESSION STUDY

RUN	7	FLIGHT DATE 09/12/79	SPIKE POS. DX/MC	.8582	AMBIENT TEMP	299.4 DEG K	MAX-MIN DIST	.0430
		FLIGHT NO. 0	HYPASS POS.	CLOSED	AMBIENT PRESS	.9160 ATMOS	K-CIRCUMF.	.6775
START	4: 8: 2.000	INTERVAL 1.000	ENG. FACE RECOV	.9711	ENGINE M/M*	.4869	K-RADIAL	.0515
STOP	4: 8:31.999	ENG CUR RPM 3837.	ENG. FACE MACH NO	.2061	COWL M/M*	.3397		
			COWL LIP RECOV	.9717	ADDITIVE M/M*	.1471	K-DELTA	-.0026
			MACH AT COWL LIP	.2012			K-A	.0541

SPIKE R1		COWL R3		STAT XCW/MC= 5.4830	
STAT XCW/RC= .0728	STAT XCW/MC= .0700	36 DEG MAKE	198 DEG MAKE		
S2 .9675	S14 .9218	A36 .9691	A198 .9715		
R1P1 1.0020	R3P1 .9194	M36 .9724	B198 .9723		
R1P2 1.0024	R3P2 .9197	C36 .9731	C198 .9792		
R1P3 1.0024	R3P3 .9193	D36 .9725	D198 .9695		
R1P4 1.0025	R3P4 .9195	E36 .9711	E198 .9655		
R1P5 1.0024	R3P5 .9193	90 DEG MAKE	252 DEG MAKE		
R1P6 1.0024	R3P6 .9197	A90 .9705	A252 .9683		
R1P7 1.0022	R3P7 .9862	H90 .9735	H252 1.0023		
R1P8 1.0021	R3P8 .9500	C90 .9724	C252 .9688		
R1P9 1.0016	R3P9 .9865	D90 .9704	D252 .9680		
	R3P10 1.0020	E90 .9678	E252 .9646		
	R3P11 1.0029	144 DEG MAKE	324 DEG MAKE		
	R3P12 .9987	A144 .9711	A324 .9704		
	R3P13 1.0034	B144 .9731	B324 .9711		
	R3P14 1.0034	D144 .9713	D324 .9710		
	R3P15 1.0033	C144 .9654	C324 .9694		
	R3P16 1.0035	E144 .9605	E324 .9665		

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/RC= 1.4678	STAT XCW/MC= 1.5360			SPIKE			COWL
S9 .9452	S20 .9062	TAP	XCW/MC	P/PO	TAP	XCW/RC	P/PO
R2P1 .9528	R4P1 .9779	S1	.0762	.9925	S14	.0340	.9218
R2P2 .9587	R4P2 .9850	S2	.0728	.9675	S15	.1860	.9186
R2P3 .9716	R4P3 .9866	S11	.0728	.9665	S16	.4150	.9450
R2P4 .9846	R4P4 .9873	S12	.0728	.9670	S17	.8470	.9813
R2P5 .9876	R4P5 .9880	S13	.0728	.9679	S18	1.1740	.9861
	R4P6 .9872	S3	.1408	.9519	S19	1.4590	.9856
	R4P7 .9877	S4	.4068	.9263	S20	1.5400	.9862
	R4P8 .9873	S5	.6428	.9300	S21	1.8270	.9805
	R4P9 .9866	S6	.8898	.9305	S22	2.7840	.9389
	R4P10 .9864	S7	1.0178	.9342	S23	3.2980	.9437
	R4P11 .9862	S8	1.1498	.9394	S26	5.2890	.9410
	R4P12 .9856	S9	1.5128	.9452			

SPIKE R6		COWL R5	
STAT XCW/RC= 3.5040	STAT XCW/MC= 3.3276		
S23 .9437	S23 .9437		
R6P1 .9616	R5P1 .9573		
R6P2 .9650	R5P2 .9582		
R6P3 .9661	R5P3 .9591		
R6P4 .9676	R5P4 .9592		
R6P5 .9683	R5P5 .9608		
R6P8 .9708	R5P6 .9627		
R6P9 .9711	R5P7 .9651		
R6P10 .9722	R5P8 .9710		
R6P11 .9729	R5P9 .9739		
	R5P10 .9753		
	R5P11 .9746		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	8	FLIGHT DATE	09/12/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	299.4 DEG K	MAX-MIN DIST	.0482
		FLIGHT NO.	0	HYPASS POS.	CLOSED	AMBIENT PRESS	.9160 ATMUS	K-CIRCUMF.	.6500
START	4:11:48.000	INTERVAL	1.000	ENG. FALC RECOV	.9673	ENGINE M/M*	.4944	K-RADIAL	.0564
STOP	4:12:18.000	ENG LUM KPM	3998.	ENG. FALC MACH NO	.2166	COWL M/M*	.3580	K-DELTA	-.0032
				COWL LIP RECOV	.9684	ADDITIVE M/M*	.1364	K-A	.0601
				MACH AT COWL LIP	.2134				

SPIKE R1		COWL K3		STAT XCW/RC# 5.4830	
STAT XCW/RC#	.0728	STAT XCW/RC#	.0700	36 DEG MAKE	198 DEG MAKE
S2	.9636	S14	.9127	A36	.9646
R1P1	1.0026	R3P1	.9104	B36	.9683
R1P2	1.0025	R3P2	.9103	C36	.9692
R1P3	1.0026	R3P3	.9102	D36	.9696
R1P4	1.0028	R3P4	.9103	E36	.9676
R1P5	1.0026	R3P5	.9100	90 DEG MAKE	
R1P6	1.0025	R3P6	.9102	A90	.9667
R1P7	1.0027	R3P7	.9842	B90	.9692
R1P8	1.0024	R3P8	.9455	C90	.9698
R1P9	1.0012	R3P9	.9902	D90	.9664
		R3P10	1.0028	E90	.9638
		R3P11	1.0034	144 DEG MAKE	
		R3P12	.9986	A144	.9662
		R3P13	1.0036	B144	.9676
		R3P14	1.0035	D144	.9665
		R3P15	1.0035	C144	.9613
		R3P16	1.0037	E144	.9501
				A324	.9672
				B324	.9677
				C324	.9654
				D324	.9629
				E324	.9629

SPIKE R2		COWL K4		STATIC PRESSURES						
STAT XCW/RC#	1.4678	STAT XCW/RC#	1.5380	SPIKE	XCW/RC	P/PO	IAP	COWL	XCW/RC	P/PO
S9	.9384	S20	.8947	S1	.0762	.9920	S14	.0340	.9127	
R2P1	.9466	R4P1	.9766	S2	.0728	.9636	S15	.1860	.9096	
R2P2	.9530	R4P2	.9440	S11	.0728	.9626	S16	.4150	.9374	
R2P3	.9659	R4P3	.9855	S12	.0728	.9636	S17	.8470	.9342	
R2P4	.9829	R4P4	.9869	S13	.0728	.9642	S18	1.1740	.9393	
R2P5	.9873	R4P5	.9866	S3	.1408	.9459	S19	1.4590	.9388	
		R4P6	.9867	S4	.4068	.9175	S20	1.5400	.8947	
		R4P7	.9872	S5	.6428	.9216	S21	1.8270	.9331	
		R4P8	.9864	S6	.8848	.9224	S22	2.7840	.9311	
		R4P9	.9861	S7	1.0178	.9259	S23	3.2980	.9368	
		R4P10	.9852	S8	1.1498	.9316	S26	5.2890	.9343	
		R4P11	.9841	S9	1.5128	.9384				
		R4P12	.9836	S10	1.8488	.9354				
				S27	5.5000	.9373				
				S28	.8428	.9804				

SPIKE R6		COWL K5	
STAT XCW/RC#	3.5040	STAT XCW/RC#	3.3270
S23	.9368	S23	.9368
R6P1	.9561	R5P1	.9525
R6P2	.9602	R5P2	.9531
R6P3	.9621	R5P3	.9537
R6P4	.9633	R5P4	.9544
R6P5	.9650	R5P5	.9557
R6P8	.9667	R5P6	.9584
R6P9	.9686	R5P7	.9621
R6P10	.9695	R5P8	.9669
R6P11	.9669	R5P9	.9707
		R5P10	.9733
		R5P11	.9706

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	7	FLIGHT DATE 09/12/79	SPIKE POS. UX/MC	.8582	AMBIENT TEMP	300.0 DEG K	MAX-MIN DIST	.0561
START	4:14:36.000	FLIGHT NO. 0	BYPASS POS.	CLOSED	AMBIENT PRESS	.915R ATMOS	K=CIRCUMF.	.6159
STOP	4:14:49.617	INTERVAL 1.000	ENG. FACE RECOV	.9626	ENGINE M/M*	.5067	K=RADIAL	.0601
		ENG CUM RPM 4226.	ENG. FACE MACH (U)	.2353	COWL M/M*	.3820		
			COWL LIP RECOV	.9634	ADDITIVE M/M*	.1247	K=DELTA	.0016
			MACH AT COWL LIP	.2299			K=A	.0618

SPIKE R1		COWL R3		STAT XLM/MC= 5.4830			
STAT XCM/RC=	.0728	STAT XLM/MC=	.0700	36 DEG MAKE	198 DEG MAKE		
S2	.9577	S14	.8995	A36	.9601	A198	.9622
R1P1	1.0028	R3P1	.8970	H36	.9624	H198	.9646
R1P2	1.0027	R3P2	.8970	C36	.9655	C198	.9719
R1P3	1.0033	R3P3	.8968	D36	.9646	D198	.9636
R1P4	1.0029	R3P4	.8966	E36	.9655	E198	.9547
R1P5	1.0027	R3P5	.8964	90 DEG MAKE	252 DEG MAKE		
R1P6	1.0029	R3P6	.8975	A90	.9651	A252	.9579
R1P7	1.0033	R3P7	.9815	H90	.9668	H252	1.0033
R1P8	1.0023	R3P8	.9403	C90	.9656	C252	.9543
R1P9	1.0012	R3P9	.9903	D90	.9627	D252	.9589
		R3P10	1.0030	E90	.9566	E252	.9555
		R3P11	1.0033	144 DEG MAKE	324 DEG MAKE		
		R3P12	.9979	A144	.9614	A324	.9601
		R3P13	1.0034	H144	.9611	H324	.9632
		R3P14	1.0035	D144	.9625	D324	.9613
		R3P15	1.0039	C144	.9559	C324	.9607
		R3P16	1.0043	E144	.9493	E324	.9563

SPIKE R2		COWL R4		STATIC PRESSURES					
STAT XCM/RC=	1.4678	STAT XLM/MC=	1.5380	SPIRE		COWL			
S9	.9289	S20	.8770	XCM/MC	P/PU	IAP	XCM/MC	P/PU	
R2P1	.9389	R4P1	.9706	TAP					
R2P2	.9450	R4P2	.9747	S1	.0762	.9904	S14	.0340	.8995
R2P3	.9635	R4P3	.9824	S2	.0728	.9577	S15	.1860	.8957
R2P4	.9819	R4P4	.9831	S11	.0728	.9571	S16	.4150	.9296
R2P5	.9856	R4P5	.9842	S12	.0728	.9573	S17	.8470	.9243
		R4P6	.9840	S13	.0728	.9589	S18	1.1740	.9304
		R4P7	.9842	S3	.1408	.9384	S19	1.4590	.9297
		R4P8	.9836	S4	.4066	.9053	S20	1.5400	.8770
		R4P9	.9837	S5	.6428	.9092	S21	1.8270	.9231
		R4P10	.9820	S6	.6848	.9114	S22	2.7840	.9211
		R4P11	.9821	S7	1.0178	.9149	S23	3.2980	.9268
		R4P12	.9812	S8	1.1498	.9215	S26	5.2890	.9241
				S9	1.5128	.9289			
				S10	1.6468	.9254			
				S27	3.3000	.9275			
				S28	.6428	.9772			

SPIKE R6		COWL R5	
STAT XCM/RC=	3.5040	STAT XLM/MC=	3.3270
S23	.9268	S23	.9268
R6P1	.9487	R5P1	.9444
R6P2	.9538	R5P2	.9446
R6P3	.9547	R5P3	.9460
R6P4	.9584	R5P4	.9477
R6P5	.9592	R5P5	.9482
R6P8	.9625	R5P6	.9518
R6P9	.9626	R5P7	.9559
R6P10	.9641	R5P8	.9621
R6P11	.9652	R5P9	.9668
		R5P10	.9690
		R5P11	.9660

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	10	FLIGHT DATE	09/12/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	300.0 DEG K	MAX-MIN DIST	.0641
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.916R ATMUS	K-CIRCUMF.	.5904
START	4:17:1.002	INTERVAL	1.000	ENG. FALLE RECOV	.9559	ENGINE M/M*	.514R	K-RADIAL	.0665
STOP	4:17:30.999	ENG LOK RPM	4390.	ENG. FALLE MACH NU	.2530	COWL M/M*	.4039	K-DELTA	.0050
				COWL LIP RECOV	.9573	ADDITIVE M/M*	.1109	K-A	.0715
				MACH AT COWL LIP	.2457				

SPIKE R1		COWL K3		STAT XCN/RCE 5.4830	
STAT XCN/RCE	.0728	STAT XCN/RCE	.0700	36 DEG MAKE	198 DEG MAKE
S2	.9508	S14	.8851	A36	.9531 A198
R1P1	1.0015	K3P1	.8812	H36	.9573 H198
R1P2	1.0018	K3P2	.8811	C36	.9546 C198
R1P3	1.0020	K3P3	.8808	D36	.9594 D198
R1P4	1.0019	K3P4	.8810	E36	.9571 E198
R1P5	1.0021	K3P5	.8809	90 DEG MAKE	252 DEG MAKE
R1P6	1.0018	K3P6	.8820	A90	.9552 A252
R1P7	1.0019	K3P7	.9760	H90	.9546 H252
R1P8	1.0018	K3P8	.9345	C90	.9584 C252
R1P9	1.0004	K3P9	.9882	D90	.9554 D252
		K3P10	1.0024	E90	.9514 E252
		K3P11	1.0026	144 DEG MAKE	324 DEG MAKE
		K3P12	.9966	A144	.9566 A324
		K3P13	1.0033	H144	.9584 H324
		K3P14	1.0034	D144	.9556 D324
		K3P15	1.0032	C144	.9480 C324
		K3P16	1.0034	E144	.9404 E324

SPIKE R2		COWL K4		STATIC PRESSURES						
STAT XCN/RCE	1.4678	STAT XCN/RCE	1.5380	SPIKE	XCN/RCE	P/P0	TAP	COWL	XCN/RCE	P/P0
S9	.9170	S20	.8605	S1	.9762	.9876	S14	.0340	.8851	
R2P1	.9271	K4P1	.9672	S2	.9728	.9508	S15	.1660	.8807	
R2P2	.9359	K4P2	.9775	S11	.9728	.9501	S16	.4150	.9186	
R2P3	.9564	K4P3	.9801	S12	.9728	.9523	S17	.8470	.9128	
R2P4	.9772	K4P4	.9815	S13	.9728	.9525	S18	1.1740	.9188	
R2P5	.9813	K4P5	.9816	S3	.1408	.9286	S19	1.4590	.9186	
		K4P6	.9810	S4	.4068	.8914	S20	1.5400	.8605	
		K4P7	.9815	S5	.6428	.8958	S21	1.8270	.9106	
		K4P8	.9812	S6	.8898	.8978	S22	2.7840	.9081	
		K4P9	.9808	S7	1.0018	.9015	S23	3.2980	.9154	
		K4P10	.9802	S8	1.1498	.9081	S26	5.2890	.9118	
		K4P11	.9786	S9	1.5128	.9170				
		K4P12	.9781	S10	1.8400	.9136				

SPIKE R6		COWL K5	
STAT XCN/RCE	3.5040	STAT XCN/RCE	3.3270
S23	.9154	S23	.9154
R6P1	.9416	K5P1	.9358
R6P2	.9470	K5P2	.9365
R6P3	.9481	K5P3	.9377
R6P4	.9512	K5P4	.9392
R6P5	.9521	K5P5	.9412
R6P8	.9552	K5P6	.9432
R6P9	.9570	K5P7	.9481
R6P10	.9580	K5P8	.9554
R6P11	.9602	K5P9	.9604
		K5P10	.9628
		K5P11	.9608

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	11	FLIGHT DATE	09/12/79	SPIKE POS. OX/RC	.8582	AMBIENT TEMP	299.4 DEG K	MAX-MIN DIST	.0748
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9167 ATMUS	K=CINCUMP.	.5472
START	4:19:20.000	INTERVAL	1.000	ENG. FACE RECOV	.9492	ENGINE M/M*	.5281	K-RADIAL	.0695
STOP	4:19:50.000	ENG LUM KPM	4601.	ENG. FACE MACH NU	.2729	COWL M/M*	.4282	K-DELTA	.0006
				COWL LIP RECOV	.9507	ADDITIVE M/M*	.0999	K-A	.0701
				MACH AT COWL LIP	.2638				

SPIKE R1		COWL K3		STAT XCW/RC= 5.4830			
STAT XCW/RC=	.0726	STAT XCW/RC=	.0700	36 DEG MAKE	198 DEG MAKE		
S2	.9440	S14	.8677	A36	.9454	A198	.9507
R1P1	1.0014	R3P1	.8639	M36	.9512	B198	.9520
R1P2	1.0020	R3P2	.8637	C36	.9541	C198	.9613
R1P3	1.0019	R3P3	.8637	D36	.9537	D198	.9480
R1P4	1.0022	R3P4	.8636	E36	.9508	E198	.9380
R1P5	1.0020	R3P5	.8639	90 DEG MAKE	252 DEG MAKE		
R1P6	1.0021	M3P6	.8648	A90	.9495	A252	.9431
R1P7	1.0022	R3P7	.9741	B90	.9528	B252	1.0020
R1P8	1.0020	R3P8	.9242	C90	.9525	C252	.9449
R1P9	1.0003	R3P9	.9854	D90	.9484	D252	.9424
		R3P10	1.0026	E90	.9442	E252	.9377
		R3P11	1.0029	144 DEG MAKE	324 DEG MAKE		
		R3P12	.9961	A144	.9494	A324	.9475
		R3P13	1.0032	B144	.9505	B324	.9503
		R3P14	1.0032	D144	.9476	C324	.9488
		R3P15	1.0032	E144	.9545	D324	.9462
		R3P16	1.0033	E144	.9504	E324	.9424

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/RC=	1.4678	STAT XCW/RC=	1.5380	SPIKE		COWL	
S9	.9042	S24	.8373	XCW/RC	P/PO	IAP	XCW/RC
R2P1	.9159	M4P1	.9614	S1	.9861	S14	.0340
R2P2	.9266	R4P2	.9741	S2	.9828	S15	.1860
R2P3	.9483	M4P3	.9777	S11	.9728	S16	.4150
R2P4	.9735	R4P4	.9743	S12	.9728	S17	.8470
R2P5	.9784	M4P4	.9742	S13	.9728	S18	1.1740
		R4P5	.9745	S3	.1408	S19	1.4590
		M4P5	.9745	S4	.8068	S20	1.5400
		R4P6	.9742	S5	.8428	S21	1.8270
		M4P6	.9742	S6	.8848	S22	2.7840
		R4P7	.9747	S7	1.4178	S23	3.2980
		M4P7	.9745	S8	1.1448	S26	5.2890
		R4P8	.9742	S9	1.5128		
		M4P8	.9742	S10	1.8468		
		R4P9	.9787	S27	5.5000		
		M4P9	.9775	S28	.8428		
		R4P10	.9775				
		M4P10	.9746				
		R4P11	.9746				
		M4P11	.9746				
		R4P12	.9746				
		M4P12	.9746				

SPIKE R6		COWL K5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.9023	S23	.9023
M6P1	.9315	M5P1	.9254
M6P2	.9375	M5P2	.9270
M6P3	.9404	M5P3	.9282
M6P4	.9424	M5P4	.9295
M6P5	.9434	M5P5	.9310
M6P8	.9467	M5P6	.9352
M6P9	.9495	M5P7	.9404
M6P10	.9511	M5P8	.9440
M6P11	.9528	M5P9	.9556
		M5P10	.9577
		M5P11	.9566

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	12	FLIGHT DATE	09/12/79	SPIKE POS. DX/RC	.85M2	AMBIENT TEMP	299.4 DEG K	MAX-MIN DIST	.0850
START	4:22:15.000	FLIGHT NO.	0	BYPASS POS.	CLUSED	AMBIENT PRESS	.9167 ATMUS	K=CIRCUMF.	.5227
STOP	4:22:45.000	INTERVAL	1.000	ENG. FACE RECOV	.9423	ENGINE M/M*	.5414	K=RADIAL	.0787
		ENG CON RPM	4826.	ENG. FACE MACH NO	.2943	COWL M/M*	.4507	K=DELTA	.0121
				COWL LIP RECOV	.9438	ADDITIVE M/M*	.0907	K=A	.0908
				MACH AT COWL LIP	.2812				

SPIKE R1		COWL K3		STAT XCW/MC= 5.4830	
STAT XCW/RC=	.0728	STAT XCW/RC=	.0700	36 DEG MAKE	198 DEG MAKE
S2	.9361	S14	.8506	A36	.9364
R1P1	1.0013	R3P1	.8467	B36	.9430
R1P2	1.0019	R3P2	.8463	C36	.9458
R1P3	1.0019	R3P3	.8461	D36	.9463
R1P4	1.0019	R3P4	.8461	E36	.9426
R1P5	1.0018	R3P5	.8459	90 DEG MAKE	252 DEG MAKE
R1P6	1.0019	R3P6	.8464	A90	.9418
R1P7	1.0019	R3P7	.9707	B90	.9467
R1P8	1.0016	R3P8	.9135	C90	.9466
R1P9	.9999	R3P9	.9861	D90	.9424
		R3P10	1.0023	E90	.9370
		R3P11	1.0026	144 DEG MAKE	324 DEG MAKE
		R3P12	.9900	A144	.9424
		R3P13	1.0032	B144	.9464
		R3P14	1.0032	D144	.9420
		R3P15	1.0033	C144	.9318
		R3P16	1.0034	E144	.9216

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/RC=	1.4678	STAT XCW/RC=	1.5380	SPIKE			COWL
S9	.8898	S20	.8138	XCW/RC	P/PO	IAP	XCW/RL
H2P1	.9018	K4P1	.9558	S1	.0702	.9845	S14
H2P2	.9138	K4P2	.9706	S2	.0728	.9361	S15
R2P3	.9394	K4P3	.9734	S11	.0728	.9351	S16
R2P4	.9699	K4P4	.9757	S12	.0728	.9359	S17
R2P5	.9768	K4P5	.9769	S13	.0728	.9377	S18
		K4P6	.9771	S3	.1408	.9070	S19
		K4P7	.9772	S4	.4068	.8576	S20
		K4P8	.9771	S5	.6420	.8624	S21
		K4P9	.9755	S6	.8898	.8652	S22
		K4P10	.9745	S7	1.0178	.8646	S23
		K4P11	.9731	S8	1.1498	.8781	S26
		K4P12	.9722	S9	1.5128	.8898	
				S10	1.8488	.8857	
				S27	5.3000	.8894	
				S28	.6428	.9651	

SPIKE R6		COWL K5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.8887	S23	.8887
K6P1	.9217	K5P1	.9148
K6P2	.9291	K5P2	.9159
K6P3	.9312	K5P3	.9185
K6P4	.9323	K5P4	.9189
K6P5	.9352	K5P5	.9220
K6P8	.9407	K5P6	.9257
K6P9	.9410	K5P7	.9321
K6P10	.9440	K5P8	.9423
K6P11	.9446	K5P9	.9482
		K5P10	.9510
		K5P11	.9475

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	14	FLIGHT DATE	09/12/79	SPIKE POS. OX/KC	.8582	AMBIENT TEMP	300.0 DEG K	MAX-MIN DIST	.0448
		FLIGHT NO.	0	HYPASS POS.	CLOSED	AMBIENT PRESS	.9169 ATMUS	K-CIRCUMF.	.4386
START	4:28:13.001	INTERVAL	1.000	ENG. FALC RECOV	.9164	ENGINE M/M*	.5809	K-RADIAL	.0409
STOP	4:28:43.000	ENG CUM KPM	5470.	ENG. FALC MACH NO	.3480	COWL M/M*	.5086	K-DELTA	.0209
				COWL LIP RECOV	.9221	ADDITIVE M/M*	.0723	K-A	.0618
				MACH AT COWL LIP	.3306				

SPIKE R1		COWL K3		STAT XCM/KC= 5.4830	
STAT XCM/KC=	.0728	STAT XCM/KC=	.0700	30 DEG MAKE	198 DEG MAKE
S2	.9130	S14	.7908	A36	.9112 A198 .9203
R1P1	1.0002	K3P1	.7926	H36	.9201 B198 .9236
R1P2	1.0013	K3P2	.7920	C36	.9227 C198 .9348
R1P3	1.0013	K3P3	.7909	D36	.9244 D198 .9265
R1P4	1.0014	K3P4	.7908	E36	.9208 E198 .9006
R1P5	1.0014	K3P5	.7904	90 DEG MAKE	252 DEG MAKE
R1P6	1.0014	K3P6	.7906	A90	.9172 A252 .9096
R1P7	1.0015	K3P7	.9587	H90	.9250 B252 .9114
R1P8	1.0013	K3P8	.8850	C90	.9208 C252 .9133
R1P9	.9990	K3P9	.9805	D90	.9196 D252 .9111
		K3P10	1.0024	E90	.9112 E252 .9018
		K3P11	1.0022	144 DEG MAKE	324 DEG MAKE
		K3P12	.9937	A144	.9173 A324 .9148
		K3P13	1.0027	H144	.9238 B324 .9213
		K3P14	1.0029	D144	.9204 C324 .9188
		K3P15	1.0027	C144	.9071 D324 .9156
		K3P16	1.0029	E144	.8938 E324 .9080

SPIKE K2		COWL K4		STATIC PRESSURES						
STAT XCM/KC=	1.4678	STAT XCM/KC=	1.5380	SPIKE	XCM/KC	P/PO	IAP	COWL	XCM/KC	P/PO
S9	.8443	S20	.7390	S1	.9762	.9786	S14	.0340	.7968	
K2P1	.8588	K4P1	.9395	S2	.9728	.9150	S15	.1860	.7914	
K2P2	.8739	K4P2	.9588	S11	.9728	.9123	S16	.4150	.8527	
K2P3	.9123	K4P3	.9635	S12	.9728	.9126	S17	.8470	.8397	
K2P4	.9606	K4P4	.9655	S13	.9728	.9152	S18	1.1740	.8484	
K2P5	.9680	K4P5	.9609	S3	.1408	.8725	S19	1.4590	.8493	
		K4P6	.9669	S4	.4068	.8037	S20	1.5400	.7390	
		K4P7	.9682	S5	.6428	.8089	S21	1.8270	.8343	
		K4P8	.9683	S6	.8898	.8121	S22	2.7840	.8307	
		K4P9	.9668	S7	1.0178	.8174	S23	3.2980	.8444	
		K4P10	.9666	S8	1.1448	.8271	S26	5.2690	.8384	
		K4P11	.9663	S9	1.3128	.8443				
		K4P12	.9636	S10	1.8488	.8392				
				S27	3.3060	.9467				
				S28	.6428	.9522				

SPIKE K6		COWL K5	
STAT XCM/KC=	3.5040	STAT XCM/KC=	3.3270
S23	.8444	S23	.8444
K6P1	.8915	K5P1	.8803
K6P2	.8994	K5P2	.8827
K6P3	.9023	K5P3	.8832
K6P4	.9052	K5P4	.8856
K6P5	.9081	K5P5	.8888
K6P8	.9139	K5P6	.8933
K6P9	.9165	K5P7	.9011
K6P10	.9194	K5P8	.9107
K6P11	.9208	K5P9	.9273
		K5P10	.9330
		K5P11	.9284

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	15	FLIGHT DATE	09/12/79	SPIKE POS. DR/KC	.8582	AMBIENT TEMP	300.0 DEG K	MAX=MIN DIST	.1103
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9164 ATMUS	K=CIRCUMF.	.4580
START	4:31:46.002	INTERVAL	1.000	ENG. FACE RECOV	.9262	ENGINE M/M*	.5669	K=RADIAL	.0938
STOP	4:32:16.000	ENG CUR RPM	5255.	ENG. FACE MACH NO	.3360	COWL M/M*	.4958	K=DELTA	.0119
				COWL LIP RECOV	.9288	ADDITIVE M/M*	.0711	K=A	.1057
				MACH AT COWL LIP	.3185				

SPIKE K1		COWL K3		STAT XCW/RCE = 5.4830			
STAT XCW/RCE = .0728	STAT XCW/RCE = .0700			36 DEG HAKE	198 DEG HAKE		
S2 .9197	S14 .8119	A36 .9203	A198 .9252				
R1P1 1.0012	R3P1 .8074	H36 .9276	H198 .9300				
R1P2 1.0020	K3P2 .8071	C36 .9311	C198 .9427				
R1P3 1.0020	K3P3 .8069	D36 .9314	D198 .9263				
R1P4 1.0022	R3P4 .8069	E36 .9267	E198 .9114				
R1P5 1.0021	K3P5 .8068	90 DEG HAKE		252 DEG HAKE			
R1P6 1.0022	R3P6 .8074	A90 .9258	A252 .9183				
R1P7 1.0021	K3P7 .9633	H90 .9330	H252 1.0019				
R1P8 1.0018	K3P8 .8989	C90 .9323	C252 .9207				
R1P9 .9996	K3P9 .9843	L90 .9265	D252 .9167				
	K3P10 1.0032	E90 .9140	E252 .9103				
	K3P11 1.0031	144 DEG HAKE		324 DEG HAKE			
	K3P12 .9950	A144 .9242	A324 .9223				
	K3P13 1.0037	H144 .9290	H324 .9298				
	K3P14 1.0036	D144 .9273	D324 .9271				
	K3P15 1.0036	C144 .9135	D324 .9215				
	K3P16 1.0034	E144 .9447	E324 .9154				

SPIKE K2		COWL K4		STATIC PRESSURES			
STAT XCW/RCE = 1.4676	STAT XCW/RCE = 1.5340			SPIKE		COWL	
S9 .8583	S20 .7640	TAP	XCW/RCE	P/PO	TAP	XCW/RCE	P/PO
R2P1 .8720	K4P1 .9434	S1 .9302	.9808	S14 .0340	S14 .8119		
R2P2 .8865	H4P2 .9610	S2 .9128	.9197	S15 .1860	S15 .8060		
R2P3 .9214	K4P3 .9657	S11 .9128	.9188	S16 .4150	S16 .8654		
R2P4 .9638	H4P4 .9689	S12 .9128	.9197	S17 .8470	S17 .8528		
R2P5 .9717	K4P5 .9701	S13 .9128	.9221	S18 1.1740	S18 .8623		
	H4P6 .9701	S3 .1408	.8832	S19 1.4590	S19 .8626		
	K4P7 .9707	S4 .4068	.8198	S20 1.5400	S20 .7640		
	H4P8 .9708	S5 .6428	.8259	S21 1.8270	S21 .8492		
	K4P9 .9704	S6 .8848	.8284	S22 2.7840	S22 .8457		
	H4P10 .9644	S7 1.0178	.8333	S23 3.2980	S23 .8575		
	K4P11 .9686	S8 1.1448	.8427	S26 5.2840	S26 .8521		
	H4P12 .9671	S9 1.5128	.8583				
		S10 1.8488	.8535				
		S27 5.3000	.8540				
		S28 .6428	.9567				

SPIKE K6		COWL K5	
STAT XCW/RCE = 3.5040	STAT XCW/RCE = 3.3270		
S23 .8575	S23 .8575		
K6P1 .9007	K5P1 .8908		
H6P2 .9084	K5P2 .8924		
K6P3 .9111	K5P3 .8947		
H6P4 .9153	K5P4 .8968		
K6P5 .9164	R5P5 .8948		
H6P8 .9225	K5P6 .9043		
K6P9 .9237	R5P7 .9116		
H6P10 .9266	K5P8 .9250		
K6P11 .9287	K5P9 .9352		
	R5P10 .9342		
	K5P11 .9357		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	10	FLIGHT DATE	04/12/79	SPIKE POS. DX/KC	.H582	AMBIENT TEMP	301.1 DEG K	MAX-MIN DIST	.1215
		FLIGHT HU.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9165 ATMOS	K-CIRCUMF.	.4330
START	4:35:20.000	INTERVAL	1.000	ENG. FACE REC'D	.9174	ENGINE M/M#	.5869	K-RADIAL	.0972
STOP	4:35:50.000	ENG CUR RPM	5535.	ENG. FACE MACH NO	.3600	COWL M/M#	.5166		
				COWL LIP REC'D	.9199	ADDITIVE M/M#	.0704	K-DELTA	.0275
				MACH AT COWL LIP	.3375			K-A	.1247

SPIKE R1		COWL K3		STAT XCW/KC= 5.4830	
STAT XCW/KC=	.0728	STAT XCW/KC=	.0700	30 DEG MAKE	198 DEG MAKE
S2	.9102	S14	.7901	A36	.9064
R1P1	1.0007	K3P1	.7856	H36	.9170
R1P2	1.0017	K3P2	.7853	C36	.9220
R1P3	1.0017	K3P3	.7855	D36	.9246
R1P4	1.0014	K3P4	.7851	E36	.9182
R1P5	1.0016	K3P5	.7852	90 DEG MAKE	
R1P6	1.0018	K3P6	.7852	A90	.9150
R1P7	1.0019	K3P7	.4542	H90	.9230
R1P8	1.0016	K3P8	.8873	C90	.9242
R1P9	.9993	K3P9	.9696	D90	.9185
		K3P10	1.0024	E90	.9100
		K3P11	1.0029	144 DEG MAKE	
		K3P12	.9942	A144	.9154
		K3P13	1.0035	H144	.9233
		K3P14	1.0035	C144	.9167
		K3P15	1.0034	D144	.9107
		K3P16	1.0036	E144	.9035
					.8403
					.9119
					.9197
					.9159
					.9118
					.9060

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/KC=	1.4674	STAT XCW/KC=	1.5340	SPIKE	COWL		
S9	.8397	S20	.7327	XCW/KC	P/PU	TAP	XCW/KC
K2P1	.8551	K4P1	.9348	S1	.9784	S14	.0340
K2P2	.8714	K4P2	.9569	S2	.9720	S15	.1860
K2P3	.9114	K4P3	.9620	S11	.9728	S16	.4150
K2P4	.9592	K4P4	.9647	S12	.9720	S17	.8470
K2P5	.9675	K4P5	.9670	S13	.9720	S18	1.1740
		K4P6	.9675	S3	.9400	S19	1.4540
		K4P7	.9663	S4	.9400	S20	1.5400
		K4P8	.9640	S5	.9428	S21	1.8270
		K4P9	.9645	S6	.9696	S22	2.7440
		K4P10	.9670	S7	1.0176	S23	3.2980
		K4P11	.9657	S8	1.1498	S26	5.2890
		K4P12	.9637	S9	1.5126		
				S10	1.8400		
				S27	5.3000		
				S28	.9428		
					.9514		

SPIKE R6		COWL K5	
STAT XCW/KC=	3.5040	STAT XCW/KC=	3.3270
S23	.8394	S23	.8394
R6P1	.8884	K5P1	.8775
R6P2	.8964	K5P2	.8786
R6P3	.8984	K5P3	.8810
R6P4	.9030	K5P4	.8828
R6P5	.9042	K5P5	.8807
R6P8	.9117	K5P6	.8431
R6P9	.9156	K5P7	.8443
R6P10	.9175	K5P8	.9146
R6P11	.9176	K5P9	.9270
		F5P10	.9324
		K5P11	.9262

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	17	FLIGHT DATE	09/12/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	301.1 DEG K	MAX=MIN DIST	.0527
		FLIGHT NO.	0	HYPASS POS.	CLOSED	AMBIENT PRESS	.9171 ATMOS	K=CIRCUMF.	.3969
START	4:37:14.002	INTERVAL	1.000	ENG. FALC RECOV	.9066	ENGINE M/M*	.5946	K=RADIAL	.0471
STOP	4:37:43.999	ENG LOK RPM	5676.	ENG. FALC MACH NO	.3690	COWL M/M*	.5293	K=DELTA	.0126
				COWL LIP RECOV	.9128	ADDITIVE M/M*	.0653	K=A	.0596
				MACH AT COWL LIP	.3503				

SPIKE R1		COWL K3		STAT XCM/RC= 5.4830			
STAT	XCM/RC= .0728	STAT	XCM/RC= .0700	36	DEG HAKE	198	DEG HAKE
S2	.9028	S14	.7742	A36	.9002	A198	.9082
R1P1	.9999	R3P1	.7647	B36	.9109	B198	.9149
R1P2	1.0011	R3P2	.7642	C36	.9146	C198	.9289
R1P3	1.0010	R3P3	.7689	D36	.9157	D198	.9127
R1P4	1.0011	R3P4	.7689	E36	.9115	E198	.8906
R1P5	1.0012	R3P5	.7689	90	DEG HAKE	252	DEG HAKE
R1P6	1.0012	R3P6	.7698	A90	.9065	A252	.8992
R1P7	1.0010	R3P7	.9547	B90	.9158	B252	.9021
R1P8	1.0006	R3P8	.8755	C90	.9162	C252	.9050
R1P9	.9962	R3P9	.9672	D90	.9094	D252	.9010
		R3P10	1.0023	E90	.8997	E252	.8921
		R3P11	1.0021	144	DEG HAKE	324	DEG HAKE
		R3P12	.9933	A144	.9072	A324	.9000
		R3P13	1.0026	B144	.9146	B324	.9129
		R3P14	1.0028	D144	.9088	C324	.9106
		R3P15	1.0026	C144	.8950	D324	.9060
		R3P16	1.0029	E144	.8612	E324	.8901

SPIKE K2		COWL K4		STATIC PRESSURES					
STAT	XCM/RC= 1.4678	STAT	XCM/RC= 1.5380		SPIKE			COWL	
S9	.8262	S20	.7046	TAP	XCM/RC	P/PO	IAP	XCM/RC	P/PO
R2P1	.8413	R4P1	.9314	S1	.8072	.9763	S14	.0340	.7742
R2P2	.8593	R4P2	.9538	S2	.8728	.9028	S15	.1860	.7688
R2P3	.9031	R4P3	.9594	S11	.8728	.9025	S16	.4150	.8367
R2P4	.9547	R4P4	.9627	S12	.8728	.9036	S17	.8470	.8196
R2P5	.9651	R4P5	.9647	S13	.8728	.9063	S18	1.1740	.8307
		R4P6	.9646	S3	.1408	.8590	S19	1.4590	.8313
		R4P7	.9661	S4	.4068	.7852	S20	1.5400	.7096
		R4P8	.9667	S5	.6428	.7885	S21	1.8270	.8154
		R4P9	.9663	S6	.8898	.7930	S22	2.7840	.8124
		R4P10	.9654	S7	1.0178	.7979	S23	3.2940	.8254
		R4P11	.9641	S8	1.1498	.8078	S26	5.2890	.8211
		R4P12	.9613	S9	1.5128	.8202			

SPIKE K6		COWL K5	
STAT	XCM/RC= 3.5040	STAT	XCM/RC= 3.3270
S23	.8254	S23	.8254
K6P1	.8773	K5P1	.8654
K6P2	.8864	K5P2	.8667
K6P3	.8897	K5P3	.8692
K6P4	.8936	K5P4	.8718
K6P5	.8972	K5P5	.8754
K6P8	.9031	K5P6	.8825
K6P9	.9055	K5P7	.8910
K6P10	.9083	K5P8	.9002
K6P11	.9107	K5P9	.9230
		K5P10	.9252
		K5P11	.9143

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	18	FLIGHT DATE	09/12/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	302.2 DEG K	MAX-MIN DIST	.1368
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9171 ATMUS	K-CIRCUMF.	.5926
START	4:43:28.000	INTERVAL	1.000	ENG. FACE REC'DV	.9068	ENGINE M/M*	.6041	K-RADIAL	.1040
STOP	4:43:58.000	ENG LOK RPM	5767.	ENG. FACE MACH NO	.3843	COWL M/M*	.5365		
				COWL LIP REC'DV	.9097	ADDITIVE M/M*	.0676	K-DELTA	.0212
				MACH AT COWL LIP	.3573			K-A	.1252

SPIKE R1		COWL H3		STAT XCW/RCE = 5.4830	
STAT XCW/RCE	.0728	STAT XCW/RCE	.0700	36 DEG MAKE	198 DEG MAKE
S2	.8996	S14	.7662	A36	.8972 A198
R1P1	1.0004	R3P1	.7619	B36	.9057 B198
R1P2	1.0012	R3P2	.7615	C36	.9114 C198
R1P3	1.0013	R3P3	.7618	D36	.9127 D198
R1P4	1.0013	R3P4	.7615	E36	.9089 E198
R1P5	1.0013	R3P5	.7613	90 DEG MAKE	252 DEG MAKE
R1P6	1.0015	R3P6	.7620	A90	.9027 A252
R1P7	1.0014	R3P7	.9515	B90	.9115 B252
R1P8	1.0011	R3P8	.8741	C90	.9129 C252
R1P9	.9985	R3P9	.9877	D90	.9056 D252
		R3P10	1.0027	E90	.8963 E252
		R3P11	1.0026	144 DEG MAKE	324 DEG MAKE
		R3P12	.9935	A144	.9028 A324
		R3P13	1.0030	B144	.9119 B324
		R3P14	1.0031	D144	.9046 D324
		R3P15	1.0031	C144	.8910 C324
		R3P16	1.0034	E144	.8773 E324

SPIKE R2		COWL H4		STATIC PRESSURES			
STAT XCW/RCE	1.4678	STAT XCW/RCE	1.5380	SPIKE		COWL	
S9	.8197	S20	.6986	XCW/RCE	P/PU	TAP	XCW/RCE
R2P1	.8361	R4P1	.9293	S1	.0762	.9756 S14	.0340
R2P2	.8545	R4P2	.9531	S2	.0728	.8996 S15	.1860
R2P3	.8993	R4P3	.9580	S11	.0728	.8994 S16	.4150
R2P4	.9549	R4P4	.9598	S12	.0728	.8994 S17	.8470
R2P5	.9634	R4P5	.9623	S13	.0728	.9031 S18	1.1740
		R4P6	.9636	S3	.1408	.8546 S19	1.4590
		R4P7	.9656	S4	.4066	.7756 S20	1.5400
		R4P8	.9652	S5	.0428	.7810 S21	1.8270
		R4P9	.9640	S6	.8698	.7855 S22	2.7840
		R4P10	.9635	S7	1.0178	.7901 S23	3.2980
		R4P11	.9615	S8	1.1498	.8002 S26	5.2890
		R4P12	.9585	S9	1.3128	.8197	
				S10	1.4488	.8140	
				S27	5.3000	.8220	
				S28	.0428	.9462	

SPIKE R6		COWL H5	
STAT XCW/RCE	3.5040	STAT XCW/RCE	3.3270
S23	.8186	S23	.8186
R6P1	.8716	R5P1	.8605
R6P2	.8810	R5P2	.8624
R6P3	.8864	R5P3	.8649
R6P4	.8899	R5P4	.8669
R6P5	.8913	R5P5	.8727
R6P8	.8979	R5P6	.8785
R6P9	.9011	R5P7	.8873
R6P10	.9037	R5P8	.9079
R6P11	.9075	R5P9	.9189
		R5P10	.9235
		R5P11	.9170

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	19	FLIGHT DATE	09/12/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	302.2 DEG K	MAX-MIN DIST	.0571
		FLIGHT NO.	0	HYPASS POS.	CLOSED	AMBIENT PRESS	.9166 ATMUS	K-CIRCUMF.	.3696
START	4146:38.001	INTERVAL	1.000	ENG. FACE RECOV	.9041	ENGINE M/M*	.6141	K-RADIAL	.0442
STOP	4147: 7.998	ENG CLK RPM	5862.	ENG. FACE MACH NO	.3756	COWL M/M*	.5363	K-DELTA	.0137
				COWL LIP RECOV	.9107	ADDITIVE M/M*	.0776	K-A	.0578
				MACH AT COWL LIP	.3567				

SPIKE R1		COWL R3		STAT XCN/RC= 5.4830			
STAT	XCN/RC= .0728	STAT	XCN/RC= .0700	36 DEG MAKE	198 DEG MAKE		
S2	.9002	S14	.7679	A36	.8961	A198	.9072
R1P1	1.0008	R3P1	.7623	B36	.9086	B198	.9131
R1P2	1.0017	R3P2	.7620	C36	.9127	C198	.9249
R1P3	1.0017	R3P3	.7621	D36	.9145	D198	.9082
R1P4	1.0018	R3P4	.7619	E36	.9105	E198	.8929
R1P5	1.0017	R3P5	.7619	90 DEG MAKE	252 DEG MAKE		
R1P6	1.0016	R3P6	.7632	A90	.9057	A252	.8958
R1P7	1.0019	R3P7	.9550	H90	.9127	H252	.8981
R1P8	1.0015	R3P8	.8777	C90	.9132	C252	.9004
R1P9	.9989	R3P9	.9882	D90	.9068	D252	.8979
		R3P10	1.0032	E90	.8972	E252	.8871
		R3P11	1.0029	144 DEG MAKE	324 DEG MAKE		
		R3P12	.9943	A144	.9036	A324	.9024
		R3P13	1.0035	B144	.9119	B324	.9087
		R3P14	1.0036	D144	.9086	D324	.9092
		R3P15	1.0038	C144	.8925	C324	.9051
		R3P16	1.0039	E144	.8783	E324	.8974

SPIKE R2		COWL R4		STATIC PRESSURES					
STAT	XCN/RC= 1.4676	STAT	XCN/RC= 1.5380	SPIKE		COWL			
S9	.8213	S20	.6972	TAP	XCN/RC	P/P0	TAP	XCN/RC	P/P0
R2P1	.8354	R4P1	.9312	S1	.0762	.9759	S14	.0340	.7679
R2P2	.8537	R4P2	.9545	S2	.0728	.9002	S15	.1860	.7615
R2P3	.9004	R4P3	.9594	S11	.0728	.9009	S16	.4150	.8327
R2P4	.9564	R4P4	.9622	S12	.0728	.9007	S17	.8470	.8141
R2P5	.9650	R4P5	.9648	S13	.0728	.9039	S18	1.1740	.8254
		R4P6	.9651	S3	.1408	.8553	S19	1.4590	.8264
		R4P7	.9661	S4	.4068	.7774	S20	1.5400	.8972
		R4P8	.9662	S5	.6428	.7827	S21	1.8270	.8098
		R4P9	.9653	S6	.8848	.7868	S22	2.7840	.8063
		R4P10	.9650	S7	1.0178	.7922	S23	3.2980	.8210
		R4P11	.9629	S8	1.1498	.8016	S26	5.2890	.8158
		R4P12	.9610	S9	1.5128	.8213			
				S10	1.8468	.8155			
				S27	5.3000	.8240			
				S28	.0428	.9469			

SPIKE R6		COWL R5	
STAT	XCN/RC= 3.5040	STAT	XCN/RC= 3.3270
S23	.8210	S23	.8210
R6P1	.8706	R5P1	.8029
R6P2	.8810	R5P2	.8652
R6P3	.8853	R5P3	.8680
R6P4	.8901	R5P4	.8696
R6P5	.8918	R5P5	.8750
R6P6	.9002	R5P6	.8814
R6P9	.9022	R5P7	.8912
R6P10	.9046	R5P8	.9101
R6P11	.9060	R5P9	.9218
		R5P10	.9241
		R5P11	.9180

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	20	FLIGHT DATE	09/12/79	SPIKE POS. UX/UC	.8582	AMBIENT TEMP	301.1 DEG K	MAX-MIN DIST	.1472
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9181 ATMOS	K-CIRCUMF.	.3458
START	5: 0116.000	INTERVAL	1.000	ENG. FACE RECOV	.9009	ENGINE M/M*	.6301	K-RADIAL	.0973
STOP	5: 0146.000	ENG COU RPM	5982.	ENG. FACE MACH NU	.3954	COUL M/M*	.5452		
				COUL LIP RECOV	.9042	ADDITIVE M/M*	.0849	K-DELTA	.0120
				MACH AT COUL LIP	.3668			K-A	.1094

SPIKE R1		COUL K3		STAT XCW/HC= 5.4850			
STAT XCW/RC=	.0728	STAT XCW/HC=	.0700	36 DEG	KAKE	198 DEG	KAKE
S2	.8937	S14	.7542	A36	.8903	A198	.8970
R1P1	.9992	R3P1	.7493	H36	.9008	H198	.9043
R1P2	1.0003	R3P2	.7488	C36	.9075	C198	.9223
R1P3	1.0004	R3P3	.7484	O36	.9087	O198	.9066
R1P4	.9985	R3P4	.7487	E36	.9051	E198	.8887
R1P5	1.0005	R3P5	.7487	90 DEG	KAKE	252 DEG	KAKE
R1P6	1.0003	R3P6	.7501	A90	.8980	A252	.8899
R1P7	1.0004	R3P7	.9506	H90	.9073	H252	1.0003
R1P8	.9999	R3P8	.8675	C90	.9054	C252	.8996
R1P9	.9975	R3P9	.9854	O90	.8987	O252	.8924
		R3P10	1.0023	E90	.8892	E252	.8815
		R3P11	1.0019	144 DEG	KAKE	324 DEG	KAKE
		R3P12	.9926	A144	.8945	A324	.8954
		R3P13	1.0027	H144	.9041	H324	.9041
		R3P14	1.0025	O144	.8986	O324	.9018
		R3P15	1.0027	C144	.8832	C324	.8956
		R3P16	1.0024	E144	.8677	E324	.8867

SPIKE R2		COUL K4		STATIC PRESSURES			
STAT XCW/RC=	1.4678	STAT XCW/RC=	1.5380	SPIKE		COUL	
S9	.8090	S20	.8829	XLW/HL	P/PU	IAP	XCW/RC
R2P1	.8260	R4P1	.9248	S1	.0762	.9736	S14
R2P2	.8445	R4P2	.9508	S2	.0728	.8937	S15
R2P3	.8927	R4P3	.9556	S11	.0728	.8936	S16
R2P4	.9543	R4P4	.9584	S12	.0728	.8923	S17
R2P5	.9609	R4P5	.9596	S13	.0728	.8978	S18
		R4P6	.9616	S3	.1408	.8461	S19
		R4P7	.9634	S4	.4008	.7633	S20
		R4P8	.9637	S5	.6428	.7640	S21
		R4P9	.9627	S6	.8898	.7736	S22
		R4P10	.9638	S7	1.0178	.7789	S23
		R4P11	.9623	S8	1.1498	.7845	S26
		R4P12	.9587	S9	1.5128	.8090	
				S10	1.8488	.8035	
				S27	5.3000	.8119	
				S28	.6428	.9429	

SPIKE R6		COUL K5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3276
S23	.8088	S23	.8088
R6P1	.8619	K5P1	.8531
R6P2	.8747	K5P2	.8544
R6P3	.8794	K5P3	.8581
R6P4	.8827	K5P4	.8590
R6P5	.8860	K5P5	.8604
R6P8	.8922	K5P6	.8716
R6P9	.8941	K5P7	.8839
R6P10	.8995	K5P8	.9030
R6P11	.9015	K5P9	.9160
		K5P10	.9217
		K5P11	.9147

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	21	FLIGHT DATE	09/12/79	SPIKE POS.	DX/MC	.6582	AMBIENT TEMP	301.1 DEG K	MAX-MIN DIST	.0603
		FLIGHT NO.	0	BYPASS POS.	CLOSED		AMBIENT PRESS	.9171 ATMOS	K-CIRCUMF.	.3447
START	S: 3:47.000	INTERVAL	1.000	ENG. FALL RECOV		.8947	ENGINE M/M*	.6371	K-RADIAL	.0462
STOP	S: 4:17.000	ENG LOM WPM	6055.	ENG. FALLE MACH NO		.3972	COWL M/M*	.5524		
				COWL LIP RECOV		.9028	ADDITIVE M/M*	.0847	K-DELTA	.0240
				MACH AT COWL LIP		.5733			K-A	.0702

SPIKE R1		COWL R3		STAT XLW/MC# 5.4830					
STAT	XLW/MC# .0728	STAT	XLW/MC# .0700	36	DEG	RAKE	198	DEG	RAKE
S2	.8921	S14	.7478	A36	.8868	A198	.8979		
R1P1	1.0004	K3P1	.7426	H36	.9000	H198	.9044		
R1P2	1.0016	K3P2	.7417	C36	.9043	C198	.9225		
R1P3	1.0015	K3P3	.7416	D36	.9072	D198	.8983		
R1P4	1.0015	K3P4	.7418	E36	.9020	E198	.8812		
R1P5	1.0014	K3P5	.7419	90	DEG	RAKE	252	DEG	RAKE
R1P6	1.0017	K3P6	.7433	A90	.8950	A252	.8837		
R1P7	1.0017	K3P7	.9514	H90	.9066	H252	.8864		
R1P8	1.0014	K3P8	.8735	C90	.9059	C252	.8891		
R1P9	.9987	K3P9	.9910	D90	.9002	D252	.8854		
		K3P10	1.0034	E90	.8867	E252	.8772		
		K3P11	1.0032	144	DEG	RAKE	324	DEG	RAKE
		K3P12	.9937	A144	.8957	A324	.8935		
		K3P13	1.0038	H144	.9048	H324	.9017		
		K3P14	1.0039	D144	.8980	D324	.8994		
		K3P15	1.0037	C144	.8832	C324	.8916		
		K3P16	1.0040	E144	.8685	E324	.8835		

SPIKE R2		COWL R4		STATIC PRESSURES					
STAT	XLW/MC# 1.4678	STAT	XLW/MC# 1.5380	SPIKE			COWL		
S9	.8029	S20	.8723	XLW/MC	P/PU	IAP	XLW/MC	P/PU	
R2P1	.8196	H4P1	.9218	TAP					
R2P2	.8410	H4P2	.9477	S1	.0728	.9740	S14	.0340	.7478
R2P3	.8919	H4P3	.9542	S2	.0728	.8921	S15	.1860	.7412
R2P4	.9513	H4P4	.9574	S11	.0728	.8913	S16	.4150	.8176
R2P5	.9608	H4P5	.9604	S12	.0728	.8925	S17	.8470	.7967
		H4P6	.9606	S13	.0728	.8931	S18	1.1740	.8080
		H4P7	.9634	S3	.1406	.8423	S19	1.4590	.8098
		H4P8	.9635	S4	.4006	.7566	S20	1.5400	.6723
		H4P9	.9619	S5	.0426	.7614	S21	1.8270	.7906
		H4P10	.9616	S6	.8898	.7663	S22	2.7840	.7871
		H4P11	.9602	S7	1.0176	.7719	S23	3.2960	.8029
		H4P12	.9574	S8	1.1498	.7823	S26	5.2896	.7978
				S9	1.5128	.8029			
				S10	1.8488	.7967			
				S27	3.3000	.8067			
				S28	.6426	.9422			

SPIKE R6		COWL R5	
STAT	XLW/MC# 3.5046	STAT	XLW/MC# 3.3276
S23	.8029	S23	.8029
H6P1	.8574	K5P1	.8476
H6P2	.8681	K5P2	.8510
H6P3	.8754	K5P3	.8535
H6P4	.8793	K5P4	.8550
H6P5	.8817	K5P5	.8608
H6P8	.8911	K5P6	.8605
H6P9	.8939	K5P7	.8782
H6P10	.8972	K5P8	.8980
H6P11	.8995	K5P9	.9142
		K5P10	.9134
		K5P11	.9092

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	22	FLIGHT DATE	09/12/79	SPIKE POS. UX/KC	.8582	AMBIENT TEMP	301.1 DEG K	MAX-MIN DIST	.1609
START	5: 5155.001	FLIGHT NO.	0	HYPASS POS.	CLOSED	AMBIENT PRESS	.9176 ATMUS	K-CIRCUMF.	.3210
STOP	5: 0135.000	INTERVAL	1.000	ENG. FACE RECOV	.8914	ENGINE M/M*	.6649	K-RADIAL	.0997
		ENG CUR RPM	0213.	ENG. FACE MACH NU	.4212	COWL M/M*	.5661	K-DELTA	.0520
				COWL LIP RECOV	.8468	ADDITIVE M/M*	.0988	K-A	.1317
				MACH AT COWL LIP	.3075				

SPIKE K1		COWL K3		STAT XCN/KC= 5.4830	
STAT XCN/KC=	.0728	STAT XCN/KC=	.0700	30 DEG MAKE	198 DEG MAKE
S2	.8849	S14	.7322	A30	.8780
R1P1	.9997	K3P1	.7269	H30	.8433
R1P2	1.0007	K3P2	.7205	C30	.9011
R1P3	1.0007	K3P3	.7201	D30	.9020
R1P4	1.0010	K3P4	.7259	E30	.8945
R1P5	1.0009	K3P5	.7259	90 DEG MAKE	252 DEG MAKE
R1P6	1.0008	K3P6	.7282	A90	.8875
R1P7	1.0010	K3P7	.9473	H90	.9004
R1P8	1.0005	K3P8	.8970	C90	.9004
R1P9	.9980	K3P9	.9975	D90	.8927
		K3P10	1.0034	E90	.8815
		K3P11	1.0029	144 DEG MAKE	324 DEG MAKE
		K3P12	.9927	A144	.8865
		K3P13	1.0035	H144	.8977
		K3P14	1.0034	D144	.8913
		K3P15	1.0035	C144	.8743
		K3P16	1.0038	E144	.8574
				A198	.8924
				H198	.8977
				C198	.9171
				D198	.8910
				E198	.8702
				A252	.8744
				H252	1.0008
				C252	.8841
				D252	.8784
				E252	.8703
				A324	.8842
				H324	.8938
				C324	.8914
				D324	.8843
				E324	.8751

SPIKE K2		COWL K4		STATIC PRESSURES			
STAT XCN/KC=	1.4678	STAT XCN/KC=	1.5380	SPIKE		COWL	
S9	.7881	S20	.8538	XCN/KC	P/PO	TAP	XCN/KC
R2P1	.8061	K4P1	.9180	S1	.8782	S14	.0340
R2P2	.8274	K4P2	.9442	S2	.8720	S15	.1860
R2P3	.8834	K4P3	.9512	S11	.8720	S16	.4150
R2P4	.9517	K4P4	.9563	S12	.8720	S17	.8470
R2P5	.9611	K4P5	.9584	S13	.8720	S18	1.1740
		K4P6	.9593	S3	.1408	S19	1.4590
		K4P7	.9615	S4	.4000	S20	1.5400
		K4P8	.9624	S5	.8420	S21	1.8270
		K4P9	.9629	S6	.8848	S22	2.7840
		K4P10	.9610	S7	1.0170	S23	3.2980
		K4P11	.9607	S8	1.1440	S26	5.2890
		K4P12	.9574	S9	1.5120		.7833
				S10	1.8400		.7814
				S27	5.5000		.7926
				S28	.8420		.9367

SPIKE K6		COWL K5	
STAT XCN/KC=	3.5040	STAT XCN/KC=	3.3270
S23	.7881	S23	.7881
K6P1	.8480	K5P1	.8300
K6P2	.8597	K5P2	.8387
K6P3	.8653	K5P3	.8422
K6P4	.8705	K5P4	.8447
K6P5	.8723	K5P5	.8503
K6P8	.8827	K5P6	.8575
K6P9	.8839	K5P7	.8688
K6P10	.8863	K5P8	.8919
K6P11	.8920	K5P9	.9100
		K5P10	.9124
		K5P11	.9040

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	23	FLIGHT DATE	09/12/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	301.1 DEG K	MAX-MIN DIST	.0689
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9180 ATMOS	K-CIRCUMF.	.2850
START	5:13:53.001	INTERVAL	1.000	ENG. FUEL RECOV	.8842	ENGINE M/M*	.6720	K-RADIAL	.0486
STOP	5:14:22.999	ENG LOK RPM*	6275.	ENG. FUEL MACH NO	.4220	COWL M/M*	.5688	K-DELTA	.0080
				COWL LIP RECOV	.8936	AUDITIVE M/M*	.1032	K-A	.0566
				MACH AT COWL LIP	.3414				

SPIKE R1		COWL R3		STAT XCW/RC= 5.4850	
STAT XCW/RC=	.0728	STAT XCW/RC=	.0700	30 DEG TAKE	198 DEG TAKE
S2	.8818	S14	.7263	A36	.8725 A198
R1P1	.9993	R3P1	.7206	B36	.8807 H198
R1P2	1.0005	R3P2	.7198	C36	.8954 C198
R1P3	1.0007	R3P3	.7205	D36	.8974 D198
R1P4	1.0007	R3P4	.7204	E36	.8911 E198
R1P5	1.0004	R3P5	.7205	90 DEG TAKE	252 DEG TAKE
R1P6	1.0009	R3P6	.7216	A90	.8839 A252
R1P7	1.0007	R3P7	.9459	H90	.8959 H252
R1P8	1.0003	R3P8	.8742	C90	.8957 C252
R1P9	.9977	R3P9	.9950	D90	.8876 D252
		P3F10	1.0032	E90	.8762 E252
		R3F11	1.0028	144 DEG TAKE	324 DEG TAKE
		R3P12	.9927	A144	.8828 A324
		R3P13	1.0035	H144	.8941 H324
		P3P14	1.0036	D144	.8845 D324
		P3P15	1.0033	C144	.8885 C324
		R3P16	1.0034	F144	.8525 F324

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/RC=	1.4678	STAT XCW/RC=	1.5380	SPIKE		COWL	
S9	.7418	S20	.6389	XCW/RC	P/PU	TAP	XCW/RC
R2P1	.7988	R4P1	.9147	S1	.0762	.9705	S14
R2P2	.8210	R4P2	.9441	S2	.0728	.8818	S15
R2P3	.8772	R4P3	.9515	S11	.0728	.8813	S16
R2P4	.9500	R4P4	.9549	S12	.0728	.8810	S17
R2P5	.9592	R4P5	.9580	S13	.0728	.8857	S18
		R4P6	.9585	S3	.1408	.8287	S19
		R4P7	.9606	S4	.4068	.7342	S20
		R4P8	.9616	S5	.0428	.7364	S21
		R4P9	.9615	S6	.8848	.7443	S22
		R4P10	.9622	S7	1.0178	.7498	S23
		R4P11	.9594	S8	1.1498	.7599	S26
		R4P12	.9574	S9	1.3128	.7818	
				S10	1.8488	.7754	
				S27	5.3000	.7664	
				S28	.6428	.9371	

SPIKE R6		COWL R5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.7824	S23	.7824
R6P1	.8436	R5P1	.8325
R6P2	.8501	R5P2	.8345
R6P3	.8602	R5P3	.8365
R6P4	.8661	R5P4	.8401
R6P5	.8689	R5P5	.8462
R6P8	.8769	R5F6	.8533
R6P9	.8802	R5P7	.8608
R6P10	.8861	R5P8	.8691
R6P11	.8890	R5F9	.9042
		R5P10	.9101
		R5P11	.9026

YF-12 INLET NOISE SUPPRESSION STUDY
 RUN 24 FLIGHT DATE 04/12/79 SPIKE POS. DX/KC .6582 AMBIENT TEMP 301.1 DEG K
 FLIGHT NO. 0 BYPASS POS. CLOSED AMBIENT PRESS .9173 ATMOS
 START 5:15:55.001 INTERVAL 1.000 ENG. FACE REC'DV .8864 ENGINE M/M* .6906
 STOP 5:16:24.997 ENG CUR RPM 6367. ENG. FACE MACH NO .4386 COWL M/M* .5751
 COWL LIP REC'DV .8919 ADDITIVE M/M* .1156
 MACH AT COWL LIP .3977
 MAX-MIN DIST .1727
 K=CIRCUMF. .2901
 K=RADIAL .0992
 K=DELTA .0285
 K=A .1277

SPIKE R1		COWL K3		STAT XCW/KC= 5.4830	
STAT XCW/KC=	.0728	STAT XCW/KC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.8802	S14	.7195	A36	.8721 A198 .8820
K1P1	1.0001	R3P1	.7146	H36	.8874 H198 .8891
R1P2	1.0013	K3P2	.7140	C36	.8440 C198 .9126
K1P3	1.0015	R3P3	.7140	D36	.8460 D198 .8878
R1P4	1.0013	K3P4	.7157	E36	.8883 E198 .8682
K1P5	1.0016	R3P5	.7159	90 DEG HAKE	252 DEG HAKE
R1P6	1.0016	K3P6	.7158	A90	.8820 A252 .8688
K1P7	1.0014	R3P7	.9454	H90	.8456 H252 1.0014
R1P8	1.0009	K3P8	.8912	C90	.8461 C252 .8829
K1P9	.9987	R3P9	.9991	D90	.8871 D252 .8759
		R3P10	1.0041	E90	.8702 E252 .8636
		R3P11	1.0036	144 DEG HAKE	324 DEG HAKE
		R3P12	.9936	A144	.8622 A324 .8774
		K3P13	1.0043	H144	.8471 H324 .8912
		K3P14	1.0043	D144	.8803 D324 .8805
		K3P15	1.0042	E144	.8674 E324 .8793
		R3P16	1.0046	E144	.8484 E324 .8703

SPIKE R2		COWL H4		STATIC PRESSURES				
STAT XCW/KC=	1.4678	STAT XCW/KC=	1.5380	SPIKE			COWL	
S9	.7753	S20	.6302	ALW/KC	P/P0	IAP	XCW/KC	P/P0
K2P1	.7925	K4P1	.9119	S1	.9712	S14	.0340	.7195
R2P2	.8156	K4P2	.9424	S2	.8802	S15	.1860	.7122
K2P3	.8764	R4P3	.9512	S11	.8740	S16	.4150	.7964
R2P4	.9535	K4P4	.9552	S12	.8740	S17	.8470	.7709
K2P5	.9597	R4P5	.9580	S13	.8836	S18	1.1740	.7829
		K4P6	.9545	S3	.8246	S19	1.4590	.7847
		R4P7	.9610	S4	.7272	S20	1.5400	.6302
		K4P8	.9623	S5	.7312	S21	1.8270	.7614
		R4P9	.9624	S6	.7374	S22	2.7840	.7578
		K4P10	.9621	S7	.7429	S23	3.2980	.7764
		R4P11	.9603	S8	.7529	S26	5.2690	.7707
		K4P12	.9507	S9	.7753			
				S10	.7684			
				S27	.7805			
				S28	.9358			

SPIKE R6		COWL K5	
STAT XCW/KC=	3.5040	STAT XCW/KC=	3.3270
S23	.7764	S23	.7764
K6P1	.8394	K5P1	.8265
R6P2	.8519	K5P2	.8302
K6P3	.8551	R5P3	.8350
R6P4	.8609	K5P4	.8371
K6P5	.8654	R5P5	.8412
R6P8	.8726	K5P6	.8472
K6P9	.8768	R5P7	.8608
R6P10	.8815	K5P8	.8663
K6P11	.8843	R5P9	.9050
		K5P10	.9112
		R5P11	.9014

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	25	FLIGHT DATE	09/12/79	SPIKE POS.	DX/KC	.8582	AMBIENT TEMP	301.1 DEG K	MAX=MIN DIST	.0786
		FLIGHT NO.	0	BYPASS POS.	CLOSED		AMBIENT PRESS	.9180 ATMOS	K=CIRCUMF.	.2610
START	5:17:38.000	INTERVAL	1.000	ENG.FACE RECUV		.8763	ENGINE M/M*	.7029	K=RADIAL	.0535
STOP	5:18: 7.998	ENG CUM RPM	6493.	ENG.FACE MACH NO		.4434	COWL M/M*	.5815	K=DELTA	.0164
				COWL LIP RECUV		.8864	ADDITIVE M/M*	.1214	K=A	.0699
				MACH AT COWL LIP		.4062				

SPIKE K1		COWL K3		STAT XCM/KC= 5.4850	
STAT	XCM/KC= .0728	STAT	XCW/KC= .0700	36 DEG KAKE	198 DEG KAKE
S2	.8744	S14	.7081	A36	.8635
R1P1	.9993	R3P1	.7024	H36	.8810
R1P2	1.0005	R3P2	.7018	C36	.8882
R1P3	1.0008	R3P3	.7020	D36	.8911
R1P4	1.0006	R3P4	.7020	E36	.8863
R1P5	1.0008	R3P5	.7019	90 DEG KAKE	252 DEG KAKE
R1P6	1.0008	R3P6	.7039	A90	.8761
R1P7	1.0008	R3P7	.9401	H90	.8902
R1P8	1.0003	R3P8	.8872	C90	.8902
R1P9	.9978	R3P9	.9983	D90	.8811
		R3P10	1.0034	E90	.8885
		R3P11	1.0027	144 DEG KAKE	324 DEG KAKE
		R3P12	.9927	A144	.8740
		R3P13	1.0035	H144	.8906
		R3P14	1.0036	C144	.8809
		R3P15	1.0035	D144	.8811
		R3P16	1.0037	E144	.8842
				A324	.8728
				H324	.8830
				C324	.8826
				D324	.8758
				E324	.8630

SPIKE K2		COWL K4		STATIC PRESSURES				
STAT	XCM/KC= 1.4678	STAT	XCW/KC= 1.5380	SPIKE		COWL		
S9	.7641	S20	.8121	XCW/KC	P/PU	IAP	XCW/KC	P/PU
R2P1	.7419	R4P1	.9089	TAP		S14	.0340	.7081
R2P2	.8045	R4P2	.9396	S1	.0762	S15	.1860	.7011
R2P3	.8686	R4P3	.9483	S2	.0728	S16	.4150	.7869
R2P4	.9499	R4P4	.9528	S11	.0728	S17	.8470	.7597
R2P5	.9564	R4P5	.9561	S12	.0728	S18	1.1740	.7721
		R4P6	.9577	S13	.0728	S19	1.4590	.7741
		R4P7	.9600	S3	.1408	S20	1.5400	.6121
		R4P8	.9598	S4	.4068	S21	1.8270	.7500
		R4P9	.9603	S5	.6428	S22	2.7840	.7464
		R4P10	.9617	S6	.8898	S23	3.2980	.7648
		R4P11	.9600	S7	1.0178	S26	5.2890	.7602
		R4P12	.9563	S8	1.1498			
				S9	1.5128			
				S10	1.8488			
				S27	5.3000			
				S28	.8428			

SPIKE K6		COWL K5	
STAT	XCW/KC= 3.5040	STAT	XCW/KC= 3.3270
S23	.7648	S23	.7648
R6P1	.8286	R5P1	.8184
R6P2	.8424	R5P2	.8208
R6P3	.8494	R5P3	.8245
R6P4	.8523	R5P4	.8281
R6P5	.8567	R5P5	.8324
R6P8	.8659	R5P6	.8401
R6P9	.8685	R5P7	.8548
R6P10	.8730	R5P8	.8619
R6P11	.8780	R5P9	.8948
		R5P10	.9063
		R5P11	.8983

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	26	FLIGHT DATE	09/12/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	225.9	DEG K	MAX-MIN DIST	.1899
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9181	ATMUS	K-CIRCUMF.	.1906
START	5:18:58.000	INTERVAL	1.000	ENG. FALC RECOV	.8768	ENGINE M/M*	.8052		K-RADIAL	.0711
STOP	5:19:28.000	ENG. CUM RPM	6589.	ENG. FALC MACH NO	.4583	COWL M/M*	.5857		K-DELTA	.0151
				COWL LIP RECOV	.8826	ADDITIVE M/M*	.2194		K-A	.0862
				MACH AT COWL LIP	.4121					

SPIKE W1		COWL K3		STAT XCW/KC= 5.4830			
STAT XCW/KC	.0728	STAT XCW/KC	.0700	36 DEG MAKE	198 DEG MAKE		
S2	.8708	S14	.6996	A36	.8597	A198	.8702
R1P1	.9996	R3F1	.6951	H36	.8754	H198	.8833
R1P2	1.0008	R3P2	.6947	C36	.8852	C198	.9082
R1P3	1.0009	R3P3	.6943	D36	.8845	D198	.8865
R1P4	1.0007	R3P4	.6943	E36	.8834	E198	.8623
R1P5	1.0011	R3P5	.6942	90 DEG MAKE	252 DEG MAKE		
R1P6	1.0009	R3P6	.6958	A90	.8704	A252	.8619
R1P7	1.0008	R3P7	.9408	H90	.8840	H252	1.0007
R1P8	1.0005	R3P8	.8726	C90	.8844	C252	.8736
R1P9	.9980	R3P9	.4967	D90	.8734	D252	.8683
		R3P10	1.0033	E90	.8805	E252	.8517
		R3P11	1.0027	144 DEG MAKE	324 DEG MAKE		
		R3P12	.4920	A144	.8885	A324	.8681
		R3P13	1.0032	H144	.8817	H324	.8820
		R3P14	1.0035	D144	.8714	D324	.8749
		R3P15	1.0033	C144	.8531	C324	.8705
		R3P16	1.0037	E144	.8542	E324	.8602

SPIKE K2		COWL K4		STATIC PRESSURES					
STAT XCW/KC	1.4678	STAT XCW/KC	1.5380	SPIKE			COWL		
S9	.7572	S20	.8824	TAP	XCW/KC	P/P0	TAP	XCW/KC	P/P0
K2P1	.7752	K4P1	.4053	S1	.8762	.9683	S14	.0340	.6996
K2P2	.7982	K4P2	.9378	S2	.8728	.8708	S15	.1860	.6934
K2P3	.8640	K4P3	.4467	S11	.8728	.8708	S16	.4150	.7795
K2P4	.9487	K4P4	.4504	S12	.8728	.8689	S17	.8470	.7522
K2P5	.9561	K4P5	.4531	S13	.8728	.8757	S18	1.1740	.7652
		K4P6	.9500	S3	.1408	.8119	S19	1.4590	.7677
		K4P7	.4587	S4	.4068	.7077	S20	1.5400	.6024
		K4P8	.4600	S5	.6428	.7105	S21	1.8270	.7422
		K4P9	.4613	S6	.8848	.7174	S22	2.7840	.7384
		K4P10	.4614	S7	1.0178	.7231	S23	3.2980	.7578
		K4P11	.4604	S8	1.1448	.7330	S26	5.2890	.7527
		K4P12	.4570	S9	1.5128	.7572			
				S10	1.8488	.7500			
				S27	5.3000	.7632			
				S28	.6428	.9313			

SPIKE K6		COWL K5	
STAT XCW/KC	3.5040	STAT XCW/KC	3.3270
S23	.7578	S23	.7578
K6P1	.8238	K5P1	.8139
K6P2	.8386	K5P2	.8151
K6P3	.8439	K5P3	.8184
K6P4	.8495	K5P4	.8223
K6P5	.8528	K5P5	.8274
K6P8	.8637	K5P6	.8364
K6P9	.8671	K5P7	.8444
K6P10	.8700	K5P8	.8763
K6P11	.8756	K5P9	.8478
		K5P10	.4050
		K5P11	.8464

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	27	FLIGHT DATE	09/12/79	SPIKE POS. OX/RC	.0582	AMBIENT TEMP	301.1 DEG K	MAX-MIN DIST	.0050
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9177 ATMOS	K-CIRCUMF.	.2369
START	5:20:27.000	INTERVAL	1.000	ENG. FALLE RECOV	.0706	ENGINE M/M	.7224	K-RADIAL	.0540
STOP	5:20:50.999	ENG COM MPH	0085.	ENG. FALLE MACH NO	.4580	COWL M/M	.5908		
				COWL LIP RECOV	.0819	ADDITIVE M/M	.1316	K-DELTA	.0112
				MACH AT COWL LIP	.4170			K-A	.0652

SPIKE R1		COWL R3		STAT ALW/MCH 5.4830			
STAT	XCW/RC# .0728	STAT	XCW/RC# .0700	30 DEG	WAKE	148 DEG	WAKE
S2	.8697	S14	.6452	A30	.8574	A148	.8649
K1P1	.9998	K3P1	.0846	H30	.8145	H148	.8792
K1P2	1.0011	K3P2	.0842	C30	.0026	C148	.9081
K1P3	1.0014	K3P3	.0807	D30	.0000	D148	.8800
K1P4	1.0014	K3P4	.0868	E30	.0003	E148	.8620
K1P5	1.0016	K3P5	.0884	90 DEG WAKE		252 DEG	WAKE
K1P6	1.0015	K3P6	.0912	A90	.0044	A252	.8544
K1P7	1.0016	K3P7	.0928	H90	.0034	H252	.8646
K1P8	1.0010	K3P8	.0930	C90	.0000	C252	.8649
K1P9	.9984	K3P9	1.0005	D90	.0143	D252	.8639
		K3P10	1.0040	E90	.0021	E252	.8688
		K3P11	1.0035	144 DEG WAKE		324 DEG	WAKE
		K3P12	.9936	A144	.0033	A324	.8664
		K3P13	1.0042	H144	.0027	H324	.8744
		K3P14	1.0042	D144	.0116	D324	.8770
		K3P15	1.0041	C144	.0026	C324	.8674
		K3P16	1.0043	E144	.0030	E324	.8564

SPIKE R2		COWL R4		STATIC PRESSURES					
STAT	XCW/RC# 1.4678	STAT	XLW/MCH 1.5300		SPIKE		COWL		
S9	.7517	S20	.5921	TAP	XLW/MCH	P/PU	TAP	XLW/MCH	P/PU
K2P1	.7703	K4P1	.9032	S1	.0162	.9688	S14	.0340	.6952
K2P2	.7962	K4P2	.9337	S2	.0120	.8647	S15	.1860	.6873
K2P3	.8637	K4P3	.9438	S11	.0128	.8641	S16	.4150	.7786
K2P4	.9503	K4P4	.9447	S12	.0128	.8609	S17	.8470	.7477
K2P5	.9554	K4P5	.9532	S13	.0120	.8737	S18	1.1740	.7605
		K4P6	.9505	S3	.1408	.8080	S19	1.4540	.7629
		K4P7	.9586	S4	.4068	.7021	S20	1.5400	.5921
		K4P8	.9601	S5	.6428	.7051	S21	1.8270	.7361
		K4P9	.9601	S6	.8848	.7117	S22	2.7840	.7328
		K4P10	.9596	S7	1.0170	.7173	S23	3.2980	.7529
		K4P11	.9591	S8	1.1448	.7270	S26	5.2890	.7478
		K4P12	.9568	S9	1.3128	.7517			
				S10	1.0488	.7443			
				S27	5.3000	.7507			
				S28	.0428	.9309			

SPIKE R6		COWL R5	
STAT	XCW/RC# 3.5040	STAT	XLW/MCH 3.3270
S23	.7529	S23	.7524
K6P1	.8204	K5P1	.0001
K6P2	.8354	K5P2	.0113
K6P3	.8394	K5P3	.0154
K6P4	.8452	K5P4	.0174
K6P5	.8691	K5P5	.0230
K6P8	.8595	K5P6	.0343
K6P9	.8622	K5P7	.0488
K6P10	.8649	K5P8	.0714
K6P11	.8726	K5P9	.0454
		K5P10	.0435
		K5P11	.0437

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	35	FLIGHT DATE 09/13/79	SPIKE POS. DX/MC	.8582	AMBIENT TEMP	292.8 DEG K	MAX-MIN DIST	.0444
		FLIGHT NO. 0	BYPASS POS.	UMEN	AMBIENT PRESS	.9168 ATMUS	K-CIRCUMF.	.7424
START	2: 8119.999	INTERVAL 1.000	ENG. FACE RECOV	.9763	ENGINE M/M*	.4899	K-RADIAL	.0777
STOP	2: 8140.000	ENG CUR RPM 3803.	ENG. FACE MACH NU	.2161	COWL M/M*	.2198	K-DELTA	.0636
			COWL LIP RECOV	.4913	ADDITIVE M/M*	.2701	K-A	.1413
			MACH AT COWL LIP	.1258				

SPIKE R1		COWL M3		STAT XCW/MC= 5.4830	
STAT XCW/MC= .0728	STAT XCW/MC= .0700	36 DEG MAKE	198 DEG MAKE		
S2 .9989	S14 .9619	A36 .9760	A198 .9826		
R1P1 1.0016	R3P1 .9610	H36 .9716	H198 .9832		
R1P2 1.0018	R3P2 .9610	C36 .9602	C198 1.0023		
R1P3 1.0019	R3P3 .9608	D36 .9635	D198 .9795		
R1P4 1.0296	R3P4 .9609	E36 .9589	E198 .9657		
R1P5 1.0018	R3P5 .9608	90 DEG MAKE	252 DEG MAKE		
R1P6 1.0018	R3P6 .9609	A90 .9835	A252 .9789		
R1P7 1.0019	R3P7 .9930	H90 .9847	H252 .9776		
R1P8 1.0097	R3P8 .9714	C90 .9803	C252 .9778		
R1P9 1.0117	R3P9 .9913	D90 .9771	D252 .9728		
	R3P10 1.0015	E90 .9763	E252 .9746		
	R3P11 1.0029	144 DEG MAKE	324 DEG MAKE		
	R3P12 1.0008	A144 .9836	A324 .9777		
	R3P13 1.0030	H144 .9836	H324 .9778		
	R3P14 1.0032	D144 .9741	D324 .9777		
	R3P15 1.0032	C144 .9699	C324 .9744		
	R3P16 1.0032	E144 .9657	E324 .9709		

SPIKE R2		COWL M4		STATIC PRESSURES			
STAT XCW/MC= 1.4678	STAT XCW/MC= 1.5360			SPIKE	COWL		
S9 .9773	S26 .9563	TAP	XCW/MC	P/PU	TAP	XCW/MC	P/PU
R2P1 .9773	R4P1 .9914	S1 -.0762	.9956	S14 .0340	.9619		
R2P2 .9805	R4P2 .9938	S2 .0728	.9989	S15 .1860	.9585		
R2P3 .9874	R4P3 .9944	S11 .0728	.9831	S16 .4150	.9714		
R2P4 .9977	R4P4 .9952	S12 .0728	.9830	S17 .8470	.9704		
R2P5 .9939	R4P5 .9953	S13 .0728	.9833	S18 1.1740	.9723		
	F4F6 .9950	S3 .1408	.9757	S19 1.4590	.9727		
	F4P7 .9952	S4 .4068	.9626	S20 1.5400	.9563		
	R4P8 .9950	S5 .6428	.9647	S21 1.8270	.9722		
	R4P9 .9949	S6 .8898	.9650	S22 2.7840	.9331		
	R4P10 .9949	S7 1.0178	.9670	S23 3.2980	.9445		
	R4P11 .9942	S8 1.1498	.9695	S26 5.2890	.9434		
	R4P12 .9938	S9 1.3128	.9713				
		S10 1.6488	.9723				
		S27 5.3000	.9456				
		S28 .6428	.9469				

SPIKE R6		COWL M5	
STAT XCW/MC= 3.5040	STAT XCW/MC= 3.3270		
S23 .9445	S23 .9445		
R6P1 .9773	K5P1 .9646		
R6P2 .9802	K5P2 .9670		
K6P3 .9794	K5P3 .9677		
R6P4 .9968	K5P4 .9713		
K6P5 .9831	K5P5 .9722		
K6P8 .9967	K5P6 .9753		
R6P9 .9802	K5P7 .9827		
K6P10 .9855	K5P8 .9888		
K6P11 .9750	K5P9 .9867		
	K5P10 .9865		
	K5P11 .9860		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	36	FLIGHT DATE	09/13/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	293.3 DEG K	MAX-MIN DIST	.0279
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9174 ATMOS	K-CIRCUMF.	.7213
START	2:14:38.000	INTERVAL	1.000	ENG. FARE MLCUV	.9718	ENGINE M/M*	.4950	K-RADIAL	.0929
STOP	2:15: 7.949	ENG. CUM RPM	3929.	ENG. FARE MACH NO	.2220	COWL M/M*	.2563	K-DELTA	.0633
				COWL LIP MLCUV	.9846	ADDITIVE M/M*	.2387	K-A	.1562
				MACH AT COWL LIP	.1482				

SPIKE R1		COWL M3		STAT XCN/MC= 5.4830			
STAT XCN/RC=	.0726	STAT XCN/MLE=	.0700	36 DEG MAKE	198 DEG MAKE		
S2	.9814	S14	.9577	A36	.9731	A198	.9807
R1P1	1.0009	R3P1	.9565	B36	.9662	B198	.9820
R1P2	1.0011	R3P2	.9564	C36	.9614	C198	.9817
R1P3	1.0011	R3P3	.9564	D36	.9583	D198	.9688
R1P4	1.0011	R3P4	.9566	E36	.9558	E198	.9628
R1P5	1.0011	R3P5	.9564	90 DEG MAKE	252 DEG MAKE		
R1P6	1.0013	R3P6	.9563	A90	.9619	A252	.9743
R1P7	1.0011	R3P7	.9924	B90	.9629	B252	.9726
R1P8	1.0012	R3P8	.9713	C90	.9762	C252	.9707
R1P9	1.0005	R3P9	.9929	D90	.9746	D252	.9767
		R3P10	1.0016	E90	.9722	E252	.9648
		R3P11	1.0023	144 DEG MAKE	324 DEG MAKE		
		R3P12	1.0003	A144	.9822	A324	.9758
		R3P13	1.0025	B144	.9809	B324	.9751
		R3P14	1.0027	D144	.9710	D324	.9711
		R3P15	1.0026	C144	.9662	C324	.9685
		R3P16	1.0027	E144	.9614	E324	.9677

SPIKE R2		COWL M4		STATIC PRESSURES			
STAT XCN/RC=	1.4678	STAT XCN/MLE=	1.5380	SPIKE		COWL	
S9	.9707	S20	.9514	XLN/ML	P/PU	TAP	XCN/ML
R2P1	.9750	R4P1	.9894	TAP	S14	S14	.0340
R2P2	.9784	R4P2	.9928	S1	.9949	S15	.0577
R2P3	.9856	R4P3	.9932	S2	.9728	S16	.1860
R2P4	.9923	R4P4	.9937	S11	.9728	S17	.4150
R2P5	.9932	R4P5	.9939	S12	.9728	S18	.8470
		R4P6	.9938	S13	.9728	S19	1.1740
		R4P7	.9942	S3	.1408	S20	1.4590
		R4P8	.9946	S4	.4068	S21	1.5400
		R4P9	.9942	S5	.0428	S22	1.8270
		R4P10	.9937	S6	.8898	S23	2.7840
		R4P11	.9930	S7	1.0178	S24	3.2980
		R4P12	.9931	S8	1.1498	S25	5.2890
				S9	1.5128		.9669
				S10	1.8488		.9696
				S11	2.3000		.9698
				S12	.0428		.9514
							.9691
							.9271
							.9387
							.9371

SPIKE R6		COWL M5	
STAT XCN/MC=	3.5040	STAT XCN/MLE=	3.3270
S23	.9387	S23	.9387
R6P1	.9691	R6P1	.9691
R6P2	.9775	R6P2	.9627
R6P3	.9777	R6P3	.9648
R6P4	.9799	R6P4	.9672
R6P5	.9811	R6P5	.9672
R6P8	.9804	R6P6	.9725
R6P9	.9785	R6P7	.9807
R6P10	.9759	R6P8	.9875
R6P11	.9653	R6P9	.9856
		R6P10	.9835
		R6P11	.9834

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	37	FLIGHT DATE	09/13/79	SPIKE POS. DX/MC	.85M2	AMBIENT TEMP	292.8 DEG K	MAX-MIN DIST	.0340
START	2:17:58.002	FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9172 ATMOS	K-CIRCUMF.	.6746
STOP	2:18:28.000	INTERVAL	1.000	ENG. FACE RECOV	.9655	ENGINE M/M*	.5114	K-RADIAL	.1099
		ENG COM RPM	4220.	ENG. FACE MACH NO	.2481	COMB M/M*	.2834	K-DELTA	.0683
				COMB LIP RECOV	.9805	ADDITIVE M/M*	.2280	K-A	.1782
				MACH AT COMB LIP	.1650				

SPIKE R1		COMB K3		STAT XCM/MC= 5.4830	
STAT XCM/MC=	.0728	STAT XCM/MC=	.0700	36 DEG MAKE	198 DEG MAKE
S2	.9771	S14	.9471	A36	.9677 A198
R1P1	1.0010	R3P1	.9461	B36	.9613 B198
R1P2	1.0013	R3P2	.9459	C36	.9533 C198
R1P3	1.0012	R3P3	.9459	D36	.9489 D198
R1P4	1.0013	R3P4	.9458	E36	.9457 E198
R1P5	1.0012	R3P5	.9464	90 DEG MAKE	252 DEG MAKE
R1P6	1.0012	R3P6	.9462	A90	.9776 A252
R1P7	1.0012	R3P7	.9498	H90	.9783 H252
R1P8	1.0012	R3P8	.9635	C90	.9728 C252
R1P9	1.0004	R3P9	.9405	D90	.9689 D252
		R3P10	1.0016	F90	.9601 F252
		R3P11	1.0025	144 DEG MAKE	324 DEG MAKE
		R3P12	.9998	A144	.9781 A324
		R3P13	1.0028	H144	.9762 H324
		R3P14	1.0027	D144	.9643 D324
		R3P15	1.0026	L144	.9588 L324
		R3P16	1.0028	E144	.9533 E324

SPIKE R2		COMB K4		STATIC PRESSURES			
STAT XCM/MC=	1.4678	STAT XCM/MC=	1.5380	SPIKE		COMB	
S9	.9644	S20	.9397	XCM/MC	P/PO	XCM/MC	P/PO
R2P1	.9684	R4P1	.9876	S1	.9762 .9936	S14	.0340 .9471
R2P2	.9730	R4P2	.9909	S2	.9726 .9771	S15	.1860 .9441
R2P3	.9815	R4P3	.9916	S11	.9726 .9768	S16	.4150 .9609
R2P4	.9903	R4P4	.9916	S12	.9726 .9766	S17	.8470 .9594
R2P5	.9912	R4P5	.9921	S13	.9726 .9775	S18	1.1740 .9624
		R4P6	.9921	S3	.1408 .9669	S19	1.4590 .9629
		R4P7	.9926	S4	.4068 .9498	S20	1.5400 .9397
		R4P8	.9926	S5	.6428 .9525	S21	1.8270 .9621
		R4P9	.9926	S6	.8898 .9530	S22	2.7840 .9099
		R4P10	.9925	S7	1.0178 .9553	S23	3.2980 .9238
		R4P11	.9921	S8	1.1498 .9589	S26	5.2890 .9231
		R4P12	.9917	S9	1.3128 .9644		
				S10	1.8488 .9622		
				S27	5.3000 .9260		
				S28	.6426 .9874		

SPIKE R6		COMB K5	
STAT XCM/MC=	3.5040	STAT XCM/MC=	3.3270
S23	.9238	S23	.9238
R6P1	.9616	R5P1	.9498
R6P2	.9718	R5P2	.9533
R6P3	.9729	R5P3	.9559
R6P4	.9761	R5P4	.9574
R6P5	.9771	R5P5	.9604
R6P8	.9768	R5P6	.9648
R6P9	.9740	R5P7	.9744
R6P10	.9688	R5P8	.9837
R6P11	.9562	R5P9	.9825
		R5P10	.9800
		R5P11	.9801

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	30	FLIGHT DATE	09/13/79	SPIKE POS. DX/MC	.8583	AMBIENT TEMP	292.8 DEG K	MAX-MIN DIST	.0387
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9167 ATMOS	K-CIRCUMF.	.6430
START	2121:40.000	INTERVAL	1.000	ENG. FACE RECOV	.9614	ENGINE M/M*	.5224	K-RADIAL	.1172
STOP	2122: 9.999	ENG LOK RPM	4397.	ENG. FACE MACH NO	.2653	COWL M/M*	.2990		
				COWL LIP RECOV	.9781	ADDITIVE M/M*	.2234	K-DELTA	.0684
				MACH AT COWL LIP	.1749			K-A	.1856

SPIKE R1		COWL K3		STAT XCN/MC= 5.4830	
STAT XCN/MC=	.0727	STAT XCN/MC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9747	S14	.9403	A36	.9633
R1P1	1.0015	R3P1	.9394	B36	.9567
R1P2	1.0018	R3P2	.9393	C36	.9485
R1P3	1.0019	R3P3	.9394	U36	.9425
R1P4	1.0018	R3P4	.9395	E36	.9387
R1P5	1.0019	R3P5	.9394	90 DEG HAKE	252 DEG HAKE
R1P6	1.0020	R3P6	.9393	A90	.9749
R1P7	1.0018	R3P7	.9390	B90	.9753
R1P8	1.0018	R3P8	.9558	C90	.9689
R1P9	1.0011	R3P9	.9856	U90	.9653
		R3P10	1.0016	E90	.9616
		R3P11	1.0032	144 DEG HAKE	324 DEG HAKE
		R3P12	1.0002	A144	.9760
		R3P13	1.0034	B144	.9738
		R3P14	1.0034	D144	.9603
		R3P15	1.0034	C144	.9532
		R3P16	1.0035	E144	.9461

SPIKE K2		COWL K4		STATIC PRESSURES			
STAT XCN/MC=	1.4677	STAT XCN/MC=	1.5380	SPIKE		COWL	
S9	.9596	S20	.9365	XCN/MC	P/PO	IAP	XCN/MC
R2P1	.9647	K4P1	.9852	S1	.9938	S14	.0340
R2P2	.9689	K4P2	.9849	S2	.9747	S15	.1860
R2P3	.9797	K4P3	.9907	S11	.9747	S16	.4150
R2P4	.9890	K4P4	.9915	S12	.9742	S17	.8470
R2P5	.9907	K4P5	.9916	S13	.9752	S18	1.1740
		K4P6	.9918	S3	.9653	S19	1.4590
		K4P7	.9917	S4	.9456	S20	1.5400
		K4P8	.9916	S5	.9868	S21	1.8270
		K4P9	.9914	S6	.8897	S22	2.7840
		K4P10	.9911	S7	1.0177	S23	3.2980
		K4P11	.9910	S8	1.1447	S26	5.2890
		K4P12	.9910	S9	1.5127		.9132
				S10	1.8487		.9574
				S27	5.3000		.9166
				S28	.6427		.9864

SPIKE K6		COWL K5	
STAT XCN/MC=	3.5049	STAT XCN/MC=	3.3270
S23	.9138	S23	.9138
K6P1	.9574	K5P1	.9447
K6P2	.9687	K5P2	.9475
K6P3	.9699	K5P3	.9507
K6P4	.9731	K5P4	.9530
K6P5	.9746	K5P5	.9537
K6P8	.9732	K5P6	.9587
K6P9	.9693	K5P7	.9727
K6P10	.9635	K5P8	.9813
K6P11	.9505	K5P9	.9809
		K5P10	.9776
		K5P11	.9765

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	39	FLIGHT DATE	09/13/79	SPIKE POS. DX/KC	.8583	AMBIENT TEMP	292.8 DEG K	MAX-MIN DIST	.0454
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9162 ATMOS	K=CIRCUMF.	.6120
START	2:26:48.001	INTERVAL	1.000	ENG. FALF RECOV	.9565	ENGINE M/M*	.5371	K=RADIAL	.1263
STOP	2:27:17.997	ENG LOK RPM	4611.	ENG. FALF MACH NO	.2655	COWL M/M*	.3174	K=DELTA	.0760
				COWL LIP RECOV	.9759	ADDITIVE M/M*	.2197	K=A	.2023
				MACH AT COWL LIP	.1866				

SPIKE R1		COWL R3		STAT XCW/KC= 5.4850	
STAT XCW/RCE	.0727	STAT XCW/KCE	.0700	36 DEG MAKE	198 DEG MAKE
S2	.9720	S14	.9330	A36	.9596
R1P1	1.0023	K3P1	.9315	B36	.9516
R1P2	1.0026	K3P2	.9312	C36	.9422
R1P3	1.0028	K3P3	.9314	D36	.9354
R1P4	1.0027	K3P4	.9316	E36	.9299
R1P5	1.0025	K3P5	.9315	90 DEG MAKE	252 DEG MAKE
R1P6	1.0026	K3P6	.9312	A90	.9727
R1P7	1.0024	K3P7	.9872	B90	.9733
R1P8	1.0025	K3P8	.9538	C90	.9604
R1P9	1.0013	K3P9	.9875	D90	.9612
		K3P10	1.0024	E90	.9573
		K3P11	1.0036	144 DEG MAKE	324 DEG MAKE
		K3P12	1.0004	A144	.9730
		K3P13	1.0039	H144	.9698
		K3P14	1.0041	D144	.9548
		K3P15	1.0040	C144	.9473
		K3P16	1.0039	E144	.9398

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/RCE	1.4677	STAT XCW/KCE	1.5380	SPIRE			
S9	.9544	S20	.9234	TAP	XCW/KL	P/PU	TAP
K2P1	.9600	K4P1	.9838	S1	.9763	.9932	S14
K2P2	.9662	K4P2	.9885	S2	.9727	.9720	S15
K2P3	.9774	K4P3	.9899	S11	.9727	.9716	S16
K2P4	.9888	K4P4	.9906	S12	.9727	.9712	S17
K2P5	.9901	K4P5	.9905	S13	.9727	.9724	S18
		K4P6	.9905	S3	.9407	.9592	S19
		K4P7	.9910	S4	.9407	.9371	S20
		K4P8	.9911	S5	.9427	.9400	S21
		K4P9	.9904	S6	.9897	.9412	S22
		K4P10	.9910	S7	1.0177	.9438	S23
		K4P11	.9907	S8	1.1497	.9479	S26
		K4P12	.9903	S9	1.3127	.9544	
				S10	1.8487	.9529	
				S27	5.3000	.9055	
				S28	.9427	.9850	

SPIKE R6		COWL R5	
STAT XCW/RCE	3.5040	STAT XCW/KCE	3.3270
S23	.9016	S23	.9016
K6P1	.9508	K5P1	.9358
K6P2	.9650	K5P2	.9398
K6P3	.9656	K5P3	.9424
K6P4	.9701	K5P4	.9452
K6P5	.9712	K5P5	.9498
K6P8	.9705	K5P6	.9536
K6P9	.9656	K5P7	.9698
K6P10	.9593	K5P8	.9744
K6P11	.9469	K5P9	.9786
		K5P10	.9701
		K5P11	.9743

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	40	FLIGHT DATE	09/13/79	SPIKE POS. DX/MC	.8582	AMBIENT TEMP	293.9 DEG K	MAX-MIN DIST	.0506
		FLIGHT NO.	0	BYPASS POS. OPEN		AMBIENT PRESS	.9178 ATMOS	K-CIRCUMF.	.5027
START	2:29:00.001	INTERVAL	1.000	ENG. FALC RECOV	.9487	ENGINE M/M*	.5484	K-RADIAL	.1380
STOP	2:29:30.000	ENG CUM RPM	4824.	ENG. FALC MACH NO	.3607	COWL M/M*	.3347	K-DELTA	.0787
				COWL LIP RECOV	.9705	ADDITIVE M/M*	.2136	K-A	.2167
				MACH AT COWL LIP	.1984				

SPIKE #1		COWL #3		STAT XLR/MC= 5.4850					
STAT	XCW/MC= .0728	STAT	XCW/MC= .0700	30	DEG	RAKE	198	DEG	RAKE
S2	.9861	S14	.9224	A30		.9520	A198		.9649
R1P1	1.0002	R3P1	.9211	B30		.9427	B198		.9659
R1P2	1.0001	R3P2	.9209	C30		.9353	C198		.9635
R1P3	1.0006	R3P3	.9204	D30		.9240	D198		.9425
R1P4	1.0007	R3P4	.9207	E30		.9195	E198		.9311
R1P5	1.0006	R3P5	.9198	40	DEG	RAKE	252	DEG	RAKE
R1P6	1.0004	R3P6	.9203	A90		.9607	A252		.9571
R1P7	1.0007	R3P7	.9434	H90		.9075	H252		.9503
R1P8	1.000M	R3P8	.9459	C90		.9544	C252		.9405
R1P9	.9990	R3P9	.9639	D90		.9551	D252		.9446
		R3P10	1.0004	E90		.9500	E252		.9358
		R3P11	1.0019	104	DEG	RAKE	324	DEG	RAKE
		R3P12	.9460	A144		.9608	A324		.9505
		R3P13	1.0022	H144		.9647	H324		.9501
		R3P14	1.0022	D144		.9476	D324		.9475
		R3P15	1.0023	C144		.9384	C324		.9431
		R3P16	1.0022	E144		.9293	E324		.9410

SPIKE #2		COWL #4		STATIC PRESSURES					
STAT	XCW/MC= 1.4678	STAT	XCW/MC= 1.5380	SPIKE			COWL		
S9	.9467	S20	.9107	TAP	XCW/MC	P/PU	TAP	XCW/MC	P/PU
R2P1	.9534	R4P1	.9781	S1	.0702	.9903	S14	.0340	.9224
R2P2	.9586	R4P2	.9841	S2	.0720	.9601	S15	.1860	.9185
R2P3	.9730	R4P3	.9857	S11	.0720	.9602	S16	.4150	.9432
R2P4	.9852	R4P4	.9804	S12	.0720	.9656	S17	.8470	.9405
R2P5	.9859	R4P5	.9808	S13	.0720	.9670	S18	1.1740	.9448
		R4P6	.9867	S3	.1408	.9515	S19	1.4590	.9457
		R4P7	.9876	S4	.4008	.9208	S20	1.5400	.9107
		R4P8	.9878	S5	.6428	.9305	S21	1.8270	.9442
		R4P9	.9877	S6	.8848	.9310	S22	2.7840	.8665
		R4P10	.9875	S7	1.0178	.9346	S23	3.2960	.8857
		R4P11	.9872	S8	1.1448	.9389	S24	5.2890	.8854
		R4P12	.9862	S9	1.3128	.9467			
				S10	1.8488	.9443			
				S27	5.3000	.8906			
				S28	.0428	.9810			

SPIKE #6		COWL #5	
STAT	XCW/MC= 3.5040	STAT	XCW/MC= 3.3270
S23	.8857	S23	.8857
R6P1	.9422	R5P1	.9258
R6P2	.9505	R5P2	.9200
R6P3	.9592	R5P3	.9338
R6P4	.9633	R5P4	.9357
R6P5	.9654	R5P5	.9375
R6P8	.9660	R5P6	.9405
R6P9	.9619	R5P7	.9632
R6P10	.9546	R5P8	.9754
R6P11	.9360	R5P9	.9729
		R5P10	.9686
		R5P11	.9691

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	41	FLIGHT DATE	09/13/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	293.9 DEG K	MAX-MIN DIST	.0564
START	2:31:34.000	FLIGHT NO.	0	HYPASS POS.	OPEN	AMBIENT PRESS	.9178 ATMOS	K-CIRCUMF.	.5576
STOP	2:32:35.999	INTERVAL	1.000	ENG. FAN REC'D	.9418	ENGINE M/M*	.5613	K-RADIAL	.1451
		ENG. LUR RPM	5030.	ENG. FAN MACH NO	.3254	COWL M/M*	.3527	K-DELTA	.0855
				LOWL LIP REC'D	.9666	ADDITIVE M/M*	.2086	K-A	.2304
				MACH AT LOWL LIP	.2105				

SPIKE R1		COWL K3		STAT XCN/KC= 5.4830	
STAT XCN/KC=	.0728	STAT XCN/KC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9616	S14	.9128	A36	.9465
R1P1	1.0002	K3F1	.9110	H36	.9365
R1P2	.9999	K3P2	.9108	C36	.9226
R1P3	1.0004	K3P3	.9103	D36	.9148
R1P4	1.0005	K3P4	.9101	E36	.9097
R1P5	1.0004	K3P5	.9100	90 DEG HAKE	252 DEG HAKE
R1P6	1.0005	K3P6	.9102	A90	.9620
R1P7	1.0003	K3P7	.9119	H90	.9622
R1P8	1.0002	K3P8	.9389	C90	.9534
R1P9	.9989	K3P9	.9819	D90	.9466
		K3P10	1.0002	E90	.9428
		K3P11	1.0017	144 DEG HAKE	324 DEG HAKE
		K3P12	.9977	A144	.9628
		K3P13	1.0021	H144	.9601
		K3P14	1.0021	D144	.9408
		K3P15	1.0019	C144	.9306
		K3P16	1.0021	F144	.9193
				E324	.9308

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCN/KC=	1.4678	STAT XCN/KC=	1.5349	SPIKE		COWL	
S9	.9392	S20	.8994	XCN/KC	P/PO	XCN/KC	P/PO
R2P1	.9470	R4P1	.9755	TAP			
R2P2	.9535	R4P2	.9826	S1	.0762	S14	.0340
R2P3	.9678	R4P3	.9842	S2	.0720	S15	.1860
R2P4	.9831	R4P4	.9849	S11	.0720	S16	.4150
R2P5	.9843	R4P5	.9854	S12	.0720	S17	.8470
		R4P6	.9852	S13	.0720	S18	1.1740
		R4P7	.9858	S3	.1408	S19	1.4590
		R4P8	.9855	S4	.4068	S20	1.5400
		R4P9	.9860	S5	.6426	S21	1.8270
		R4P10	.9856	S6	.8848	S22	2.7840
		R4P11	.9849	S7	1.0118	S23	3.2980
		R4P12	.9846	S8	1.1446	S26	5.2890
				S9	1.5128		.8717
				S10	1.8488		
				S27	5.5000		
				S28	.6426		

SPIKE R6		COWL K5	
STAT XCN/KC=	3.5040	STAT XCN/KC=	3.3270
S23	.8707	S23	.8707
R6P1	.9353	K5P1	.9154
R6P2	.9528	K5P2	.9147
R6P3	.9549	K5P3	.9234
R6P4	.9590	K5P4	.9249
R6P5	.9615	K5P5	.9303
R6P8	.9599	K5P6	.9377
R6P9	.9553	K5P7	.9563
R6P10	.9491	K5P8	.9767
R6P11	.9305	K5P9	.9689
		K5P10	.9660
		K5P11	.9652

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	42	FLIGHT DATE	09/13/79	SPIKE POS.	DX/RC	.8582	AMBIENT TEMP	295.0 DEG K	MAX-MIN DIST	.0646
		FLIGHT NO.	0	BYPASS POS.	OPEN		AMBIENT PRESS	.9176 ATMUS	K-CIRCUMF.	.5288
START	2135125.003	INTERVAL	1.000	ENG.FACE RECUV		.9347	ENGINE M/M*	.5753	K-RADIAL	.1492
STOP	2135140.845	ENG CUM RPM	5245.	ENG.FACE MACH NO		.3502	COWL M/M*	.3687		
				COWL LIP RECUV		.9621	ADDITIVE M/M*	.2066	K=DELTA	.0879
				MACH AT COWL LIP		.2217			K=A	.2371

SPIKE R1		COWL K3		STAT XLM/RCL= 5.4830			
STAT	XCM/RCE= .0728	STAT	XCM/RCE= .0700	36	DEG HAKE	198	DEG HAKE
S2	.9570	S14	.9024	A36	.4372	A198	.9500
R1P1	.9999	K3P1	.9002	H36	.4271	H198	.9568
R1P2	1.0000	K3P2	.9002	L36	.4137	C198	.9527
R1P3	1.0004	K3P3	.9002	D36	.4066	D198	.9287
R1P4	1.0004	K3P4	.9002	E36	.8970	E198	.9133
R1P5	1.0004	K3P5	.9004	90	DEG HAKE	252	DEG HAKE
R1P6	1.0004	K3P6	.9003	A90	.9564	A252	.9438
R1P7	1.0005	K3P7	.4795	H90	.4574	H252	.9381
R1P8	1.0005	K3P8	.4268	C90	.4465	C252	.9315
R1P9	.9986	K3P9	.4730	D90	.4401	D252	.9310
		K3P10	.4468	E90	.4388	E252	.9208
		K3P11	1.0015	144	DEG HAKE	324	DEG HAKE
		K3P12	.4970	A144	.4575	A324	.4451
		K3P13	1.0020	H144	.4541	H324	.4449
		K3P14	1.0022	D144	.4325	C324	.4339
		K3P15	1.0020	C144	.9214	D324	.4283
		K3P16	1.0021	E144	.4105	E324	.4209

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT	XCM/RCE= 1.4678	STAT	XCM/RCE= 1.5380				
S9	.9317	S20	.8873	SPIKE		COWL	
R2P1	.9393	K4P1	.4744	XCM/RCE	P/PU	TAP	XCM/RCE
R2P2	.9455	K4P2	.4817	S1	.0728	S14	.0340
R2P3	.9640	K4P3	.4824	S2	.0728	S15	.1860
R2P4	.9864	K4P4	.4824	S11	.0728	S16	.4150
R2P5	.9923	K4P5	.4831	S12	.0728	S17	.8470
		K4P6	.4832	S13	.0728	S18	1.1740
		K4P7	.4842	S3	.1408	S19	1.4590
		K4P8	.4839	S4	.4068	S20	1.5400
		K4P9	.4832	S5	.8428	S21	1.8270
		K4P10	.4835	S6	.8848	S22	2.7840
		K4P11	.4827	S7	1.0178	S23	3.2480
		K4P12	.4818	S8	1.1498	S24	5.2890
				S9	1.5128		
				S10	1.8488		
				S27	5.3000		
				S28	.8428		

SPIKE R6		COWL K5	
STAT	XCM/RCE= 3.5040	STAT	XCM/RCE= 3.3270
S23	.8554	S23	.8554
R6P1	.9274	K5P1	.4000
R6P2	.9454	K5P2	.4064
R6P3	.9499	K5P3	.4047
R6P4	.9528	K5P4	.4152
R6P5	.9567	K5P5	.4222
R6P6	.9552	K5P6	.4317
R6P9	.9497	K5P7	.4512
R6P10	.9422	K5P8	.4657
R6P11	.9221	K5P9	.4652
		K5P10	.4604
		K5P11	.4546

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	43	FLIGHT DATE	09/13/79	SPIKE POS. IX/RC	.8582	AMBIENT TEMP	295.0 DEG K	MAX-MIN DIST	.0684
START	2:37:30.000	FLIGHT NO.	0	HYPASS POS.	OPEN	AMBIENT PRESS	.9174 ATMOS	K-CIRCUMF.	.4930
STOP	2:37:59.99H	INTERVAL	1.000	ENG. FALC RECOV	.9286	ENGINE M/M*	.5936	K-RADIAL	.1486
		ENG COX RPM	5473.	ENG. FALC MACH NO	.3697	COUWL M/M*	.3814	K-DELTA	.0867
				COUWL LIP RECOV	.9587	ADDITIVE M/M*	.2122	K=A	.2353
				MACH AT COUWL LIP	.2307				

SPIKE R1		COUWL K3		STAT XLM/RC= 5.4830					
STAT	XCM/RC= .0728	STAT	XLM/RC= .0700	36	DEG	RAKE	198	DEG	RAKE
S2	.9535	S14	.8941	A36	.9333	A198	.9473		
R1P1	.9999	R3P1	.8925	B36	.9205	B198	.9530		
R1P2	.9999	R3P2	.8921	C36	.9054	C198	.9520		
R1P3	1.0004	R3P3	.8920	D36	.8976	D198	.9263		
R1P4	1.0004	R3P4	.8919	E36	.8901	E198	.9082		
R1P5	1.0004	R3P5	.8917	90	DEG	RAKE	252	DEG	RAKE
R1P6	1.0005	R3P6	.8915	A90	.9526	A252	.9363		
R1P7	1.0004	R3P7	.9784	M90	.9524	B252	.9315		
R1P8	1.0003	R3P8	.9181	C90	.9420	C252	.9274		
R1P9	.9988	R3P9	.9682	D90	.9345	D252	.9239		
		R3P10	.9964	E90	.9303	E252	.9107		
		R3P11	1.0016	144	DEG	RAKE	324	DEG	RAKE
		R3P12	.9971	A144	.9536	A324	.9378		
		R3P13	1.0020	M144	.9493	B324	.9423		
		R3P14	1.0022	D144	.9246	C324	.9302		
		R3P15	1.0021	C144	.9121	D324	.9216		
		R3P16	1.0021	E144	.9003	E324	.9109		

SPIKE R2		COUWL K4		STATIC PRESSURES					
STAT	XCM/RC= 1.4678	STAT	XLM/RC= 1.5380						
S9	.9258	S20	.8752	SP1	.0762	P/PU	S14	.0340	.8941
R2P1	.9331	K4P1	.9712	S2	.0728	.9535	S15	.1860	.8889
R2P2	.9413	K4P2	.9788	S11	.0728	.9548	S16	.4150	.9228
R2P3	.9592	K4P3	.9806	S12	.0728	.9523	S17	.8470	.9182
R2P4	.9787	K4P4	.9818	S13	.0728	.9555	S18	1.1740	.9239
R2P5	.9822	K4P5	.9819	S3	.1408	.9347	S19	1.4590	.9253
		K4P6	.9826	S4	.4068	.9008	S20	1.5400	.8752
		K4P7	.9822	S5	.6428	.9050	S21	1.8270	.9237
		K4P8	.9827	S6	.8898	.9062	S22	2.7840	.8161
		K4P9	.9826	S7	1.0178	.9100	S23	3.2980	.8398
		K4P10	.9821	S8	1.1498	.9162	S26	5.2890	.8409
		K4P11	.9818	S9	1.5128	.9258			
		K4P12	.9806	S10	1.8488	.9235			

SPIKE R6		COUWL K5	
STAT	XCM/RC= 3.5040	STAT	XLM/RC= 3.3270
S23	.8398	S23	.8398
R6P1	.9203	K5P1	.8936
R6P2	.9392	K5P2	.8988
R6P3	.9422	K5P3	.9051
R6P4	.9488	K5P4	.9070
R6P5	.9528	K5P5	.9144
R6P6	.9490	K5P6	.9225
R6P9	.9437	K5P7	.9424
R6P10	.9354	K5P8	.9642
R6P11	.9132	K5P9	.9017
		K5P10	.9580
		K5P11	.9546

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	44	FLIGHT DATE	09/13/79	SPIKE POS. OX/RC	.8582	AMBIENT TEMP	295.0 DEG K	MAX-MIN DIST	.0758
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9175 ATMOS	K-CIRCUMF.	.4652
START	2:40:4.001	INTERVAL	1.000	ENG. FACE RECOV	.9217	ENGINE M/M*	.6102	K-RADIAL	.1529
STOP	2:40:133.999	ENG CUR RPM	5660.	ENG. FACE MACH NO	.3406	COWL M/M*	.3978	K-DELTA	.0886
				COWL LIP RECOV	.9543	ADDITIVE M/M*	.2124	K-A	.2415
				MACH AT COWL LIP	.2425				

SPIKE #1		COWL #3		STAT XCW/RC= 5.4830			
STAT XCW/RC=	.0728	STAT XCW/RC=	.0700	30 DEG	RAKE	198 DEG	RAKE
S2	.9487	S14	.8834	A30	.9200	A198	.9416
R1P1	.9990	R3P1	.8813	H30	.9124	H198	.9403
R1P2	.9998	R3P2	.8815	C30	.8964	C198	.9447
R1P3	1.0003	R3P3	.8811	D30	.8854	D198	.9179
R1P4	1.0003	R3P4	.8813	E30	.8740	E198	.8943
R1P5	1.0002	R3P5	.8809	90 DEG	RAKE	252 DEG	RAKE
R1P6	1.0005	R3P6	.8813	A90	.9445	A252	.9319
R1P7	.9999	R3P7	.9765	H90	.9474	H252	.9268
R1P8	1.0000	R3P8	.9101	C90	.9340	C252	.9217
R1P9	.9982	R3P9	.9601	D90	.9275	D252	.9162
		R3P10	.9976	E90	.9204	E252	.9039
		R3P11	1.0014	140 DEG	RAKE	324 DEG	RAKE
		R3P12	.9965	A144	.9445	A324	.9337
		R3P13	1.0021	H144	.9444	H324	.9356
		R3P14	1.0021	D144	.9180	D324	.9231
		R3P15	1.0022	C144	.9081	C324	.9131
		R3P16	1.0023	E144	.8982	E324	.9038

SPIKE #2		COWL #4		STATIC PRESSURES					
STAT XCW/RC=	1.4678	STAT XCW/RC=	1.5380	SPIKE			COWL		
S9	.9190	S20	.8632	ALW/HL	P/PU	IAP	XCW/RC	P/PU	
R2P1	.9273	R4P1	.9607	S1	.0702	.9857	S14	.0340	.8834
R2P2	.9355	R4P2	.9761	S2	.0720	.9487	S15	.1860	.8796
R2P3	.9571	R4P3	.9771	S11	.0728	.9500	S16	.4150	.9148
R2P4	.9766	R4P4	.9744	S12	.0728	.9481	S17	.8470	.9106
R2P5	.9791	R4P5	.9801	S13	.0728	.9512	S18	1.1740	.9165
		R4P6	.9806	S3	.1468	.9282	S19	1.4590	.9181
		R4P7	.9809	S4	.4068	.8909	S20	1.5400	.8632
		R4P8	.9807	S5	.6426	.8958	S21	1.8270	.9161
		R4P9	.9807	S6	.8848	.8971	S22	2.7840	.7979
		R4P10	.9801	S7	1.0178	.9019	S23	3.2980	.8230
		R4P11	.9802	S8	1.1440	.9085	S26	5.2890	.8246
		R4P12	.9784	S9	1.5126	.9190			
				S10	1.8480	.9166			
				S27	5.3000	.8327			
				S28	.6426	.9719			

SPIKE #6		COWL #5	
STAT XCW/RC=	3.5046	STAT XCW/RC=	3.3270
S23	.8230	S23	.8230
R6P1	.9124	R5P1	.8835
R6P2	.9344	R5P2	.8844
R6P3	.9364	R5P3	.8933
R6P4	.9441	R5P4	.8971
R6P5	.9480	R5P5	.9037
R6P8	.9454	R5P6	.9130
R6P9	.9375	R5P7	.9403
R6P10	.9284	R5P8	.9604
R6P11	.9026	R5P9	.9574
		R5P10	.9543
		R5P11	.9440

YF-12 INLET NOISE SUPPRESSION STUDY

HUN	45	FLIGHT DATE 09/15/79	SPIKE POS. DX/MC	.8582	AMBIENT TEMP	296.7 DEG K	MAX-MIN DIST	.0796
		FLIGHT NO. 0	BYPASS POS. OPEN		AMBIENT PRESS	.9178 ATMOS	K-CIRCUMF.	.4361
START	2:42:25.000	INTERVAL 1.000	ENG. FACE RECOV	.9187	ENGINE M/M*	.6310	K-RADIAL	.1466
STOP	2:42:55.000	ENG LOU RPM 5856.	ENG. FACE MACH NO	.3483	COWL M/M*	.4047	K-DELTA	.0888
			COWL LIP RECOV	.9532	ADDITIVE M/M*	.2264	K-A	.2353
			MACH AT COWL LIP	.2473				

SPIKE M1		COWL K3		STAT XCM/MCE 5.4830	
STAT XCM/MCE	.0728	STAT XCM/MCE	.0700	36 DEG MAKE	198 DEG MAKE
S2	.9471	S14	.8749	A36	.9235
R1P1	.9996	K3P1	.8777	M36	.9096
R1P2	.9944	K3P2	.8776	C36	.8433
R1P3	1.0000	K3P3	.8772	U36	.8827
R1P4	.9999	K3P4	.8773	E36	.8750
R1P5	1.0001	K3P5	.8769	90 DEG MAKE	252 DEG MAKE
R1P6	1.0000	K3P6	.8774	A90	.9472
R1P7	1.0001	K3P7	.8755	M90	.9482
R1P8	1.0000	K3P8	.9136	C90	.9327
R1P9	.9981	K3P9	.9720	U90	.9238
		K3P10	.9993	E90	.9187
		K3P11	1.0012	144 DEG MAKE	324 DEG MAKE
		K3P12	.9962	A144	.9404
		K3P13	1.0018	M144	.9428
		K3P14	1.0017	C144	.9144
		K3P15	1.0014	U144	.9054
		K3P16	1.0016	E144	.8465
				A324	.9326
				M324	.9350
				C324	.9211
				U324	.9102
				E324	.9021

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCM/MCE	1.4678	STAT XCM/MCE	1.5380	TAP	SPIKE	COWL	
S9	.9160	S20	.8546	XCM/MC	P/PO	TAP	XCM/MC
R2P1	.9248	K4P1	.9664	S1	.9076	S14	.0340
R2P2	.9334	K4P2	.9753	S2	.9126	S15	.1860
R2P3	.9534	K4P3	.9770	S11	.9126	S16	.4150
R2P4	.9752	K4P4	.9786	S12	.9126	S17	.8470
R2P5	.9783	K4P5	.9791	S13	.9126	S18	1.1740
		K4P6	.9792	S3	.1406	S19	1.4540
		K4P7	.9800	S4	.4066	S20	1.5400
		K4P8	.9796	S5	.6426	S21	1.8270
		K4P9	.9800	S6	.8846	S22	2.7840
		K4P10	.9747	S7	1.0176	S23	3.2960
		K4P11	.9787	S8	1.1446	S26	5.2890
		K4P12	.9779	S9	1.3126		.8166
				S10	1.8486		
				S27	3.3000		
				S28	.6426		

SPIKE M6		COWL K5	
STAT XCM/MCE	3.5040	STAT XCM/MCE	3.3270
S23	.8164	S23	.8164
M6P1	.9078	K5P1	.8802
M6P2	.9319	K5P2	.8854
M6P3	.9343	K5P3	.8407
M6P4	.9415	K5P4	.8934
M6P5	.9464	K5P5	.8447
M6P8	.9446	K5P6	.9126
M6P9	.9385	K5P7	.9375
M6P10	.9276	K5P8	.9588
M6P11	.9016	K5P9	.9586
		K5P10	.9525
		K5P11	.9442

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	46	FLIGHT DATE	09/13/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	296.7 DEG K	MAX-MIN DIST	.0854
		FLIGHT NO.	0	HYPASS POS.	OPEN	AMBIENT PRESS	.9176 ATMOS	K=CIRCUMF.	.4285
START	2:45:1.003	INTERVAL	1.000	ENG. FACE REC'D	.9155	ENGINE M/M*	.6446	K=RADIAL	.1488
STOP	2:45:31.000	ENG CLK RPM	5965.	ENG. FACE MACH NO	.4142	COWL M/M*	.4143	K=DELTA	.0997
				COWL LIP REC'D	.9510	ADDITIVE M/M*	.2303	K=A	.2485
				MACH AT COWL LIP	.2544				

SPIKE R1		COWL R3		STAT XCW/KC= 5.4850		
STAT	XCW/KC= .0728	STAT	XCW/KC= .0700	30 DEG RAKE	198 DEG RAKE	
S2	.9446	S14	.8736	A36	.9236 A198	.9400
R1P1	.9997	R3P1	.8711	M36	.9071 H198	.9442
R1P2	.9997	R3P2	.8706	C36	.8882 C198	.9437
R1P3	1.0002	R3P3	.8709	D36	.8780 D198	.9101
R1P4	1.0002	R3P4	.8709	E36	.8682 E198	.8893
R1P5	1.0002	R3P5	.8709	90 DEG RAKE	252 DEG RAKE	
R1P6	1.0000	R3P6	.8712	A90	.9465 A252	.9213
R1P7	1.0002	R3P7	.9729	M90	.9453 M252	.9163
R1P8	.9997	R3P8	.9115	C90	.9317 C252	.9102
R1P9	.9983	R3P9	.9728	D90	.9212 D252	.9044
		R3P10	.9994	E90	.9182 E252	.8899
		R3P11	1.0015	144 DEG RAKE	324 DEG RAKE	
		R3P12	.9960	A144	.9456 A324	.9272
		R3P13	1.0021	M144	.9417 M324	.9310
		R3P14	1.0022	D144	.9118 D324	.9171
		R3P15	1.0022	C144	.9018 C324	.9050
		R3P16	1.0022	E144	.8619 E324	.8948

SPIKE R2		COWL R4		STATIC PRESSURES					
STAT	XCW/KC= 1.4678	STAT	XCW/KC= 1.5380	SPIKE		COWL			
S9	.9117	S20	.8528	XCW/KC	P/PO	IAP	P/PO		
R2P1	.9217	R4P1	.9655	S1	.8762	.9843	S14	.0340	.8736
R2P2	.9319	R4P2	.9751	S2	.8728	.9446	S15	.1860	.8688
R2P3	.9533	R4P3	.9772	S11	.8728	.9456	S16	.4150	.9089
R2P4	.9761	R4P4	.9779	S12	.8728	.9448	S17	.8470	.9027
R2P5	.9784	R4P5	.9784	S13	.8728	.9468	S18	1.1740	.9095
		R4P6	.9786	S3	.1408	.9220	S19	1.4590	.9107
		R4P7	.9788	S4	.4068	.8816	S20	1.5400	.8528
		R4P8	.9790	S5	.8428	.8870	S21	1.8270	.9088
		R4P9	.9797	S6	.8896	.8882	S22	2.7840	.7791
		R4P10	.9794	S7	1.8178	.8924	S23	3.2980	.8068
		R4P11	.9794	S8	1.1498	.8997	S26	5.2890	.8085
		R4P12	.9777	S9	1.5128	.9117			
				S10	1.8488	.9093			
				S27	5.3000	.8162			
				S28	.8428	.9647			

SPIKE R6		COWL R5	
STAT	XCW/KC= 3.5040	STAT	XCW/KC= 3.3270
S23	.8068	S23	.8068
R6P1	.9043	R5P1	.8713
R6P2	.9295	R5P2	.8777
R6P3	.9328	R5P3	.8858
R6P4	.9404	R5P4	.8867
R6P5	.9440	R5P5	.8945
R6P8	.9444	R5P6	.9083
R6P9	.9376	R5P7	.9338
R6P10	.9289	R5P8	.9581
R6P11	.8982	R5P9	.9551
		R5P10	.9511
		R5P11	.9485

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	47	FLIGHT DATE	09/13/79	SPIKE POS. DX/RC	.8562	AMBIENT TEMP	297.8 DEG K	MAX=MIN DIST	.0928
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9172 ATMOS	K=CIRCUMF.	.4034
START	2146150.000	INTERVAL	1.000	ENG. FACE RECOV	.9110	ENGINE M/M*	.6611	K=RADIAL	.1529
STOP	2147119.999	ENG CLK RPM	6090.	ENG. FACE MACH NO	.4285	COWL M/M*	.4282	K=DELTA	.0961
				COWL LIP RECOV	.9499	ADDITIVE M/M*	.2329	K=A	.2489
				MACH AT COWL LIP	.2640				

SPIKE R1		COWL R3		STAT XLM/RC= 5.4830			
STAT	XCM/RC= .0728	STAT	XCM/RC= .0700	36	DEG TAKE	198	DEG TAKE
S2	.9422	S14	.8678	A36	.9176	A198	.9303
R1P1	1.0001	R3P1	.8657	H36	.9034	H198	.9409
R1P2	1.0001	R3P2	.8652	C36	.8838	C198	.9405
R1P3	1.0007	R3P3	.8649	U36	.8703	U198	.9050
R1P4	1.0007	R3P4	.8651	E36	.8548	E198	.8810
R1P5	1.0006	R3P5	.8650	90	DEG TAKE	252	DEG TAKE
R1P6	1.0007	R3P6	.8654	A90	.9428	A252	.9218
R1P7	1.0008	R3P7	.9726	H90	.9443	H252	.9106
R1P8	1.0276	R3P8	.9367	C90	.9278	C252	.9000
R1P9	.9985	R3P9	.9764	D90	.9168	D252	.8981
		R3P10	1.0007	E90	.9123	E252	.8848
		R3P11	1.0016	144	DEG TAKE	324	DEG TAKE
		R3P12	.9967	A144	.9430	A324	.9252
		R3P13	1.0023	H144	.9387	H324	.9295
		R3P14	1.0024	C144	.9073	C324	.9116
		R3P15	1.0023	E144	.8972	E324	.8987
		R3P16	1.0025	H144	.8871	E324	.8874

SPIKE R2		COWL R4		STATIC PRESSURES					
STAT	XCM/RC= 1.4678	STAT	XCM/RC= 1.5380	SPIKE			COWL		
S9	.9073	S20	.8445	XCM/RC	P/PU	IAP	XCM/RC	P/PU	
R2P1	.9166	R4P1	.9644	TAP					
R2P2	.9273	R4P2	.9735	S1	.0762	.9841	S14	.0340	.8678
R2P3	.9508	R4P3	.9758	S2	.0728	.9422	S15	.1860	.8630
R2P4	.9758	R4P4	.9769	S11	.0728	.9431	S16	.4150	.9053
R2P5	.9771	R4P5	.9774	S12	.0728	.9423	S17	.8470	.8983
		R4P6	.9786	S13	.0728	.9447	S18	1.1740	.9054
		R4P7	.9791	S3	.1408	.9166	S19	1.4590	.9064
		R4P8	.9795	S4	.4068	.8760	S20	1.5400	.8445
		R4P9	.9797	S5	.6428	.8813	S21	1.8270	.9043
		R4P10	.9765	S6	.8848	.9101	S22	2.7840	.7670
		R4P11	.9775	S7	1.0178	.8871	S23	3.2480	.7950
		R4P12	.9769	S8	1.1448	.8949	S26	5.2890	.7973
				S9	1.5128	.9073			
				S10	1.8488	.9046			
				S27	5.3060	.8061			
				S28	.6428	.9687			

SPIKE R6		COWL R5	
STAT	XLM/RC= 3.5046	STAT	XCM/RC= 3.3276
S23	.7950	S23	.7950
R6P1	.8974	R5P1	.8662
R6P2	.9227	R5P2	.8711
R6P3	.9295	R5P3	.8777
R6P4	.9366	R5P4	.8798
R6P5	.9411	R5P5	.8684
R6P8	.9406	R5P6	.9031
R6P9	.9339	R5P7	.9350
R6P10	.9234	R5P8	.9567
R6P11	.8457	R5P9	.9536
		R5P10	.9505
		R5P11	.9459

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	48	FLIGHT DATE	09/13/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	296.7 DEG K	MAX-MIN DIST	.0971
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9186 ATMOS	K-CIRCUMF.	.3730
START	3: 4120.000	INTERVAL	1.000	ENG. FACE RECOV	.9059	ENGINE M/M*	.6837	K-RADIAL	.1519
STOP	3: 4149.999	ENG LOK RPM	6206.	ENG. FACE MACH NO	.4417	COWL M/M*	.4308		
				COWL LIP RECOV	.9464	ADDITIVE M/M*	.2529	K-DELTA	.0916
				MACH AT COWL LIP	.2668			K-A	.2435

SPIKE #1		COWL #3		STAT XLW/KC= 5.4830			
STAT	XLW/KC= .0728	STAT	XLW/KC= .0700	36	DEG KAKE	198	DEG KAKE
S2	.9388	S14	.8627	A36	.9142	A198	.9329
R1P1	.9996	R3P1	.8549	H36	.8476	H198	.9375
R1P2	.9425	R3P2	.8543	C36	.8774	C198	.9316
R1P3	1.0003	R3P3	.8544	D36	.8646	D198	.8962
R1P4	.9998	R3P4	.8544	E36	.8531	E198	.8745
R1P5	.9967	R3P5	.8543	90	DEG KAKE	252	DEG KAKE
R1P6	1.0002	R3P6	.8546	A90	.9405	A252	.9151
R1P7	.9495	R3P7	.9703	H90	.9411	H252	.9099
R1P8	.9489	R3P8	.9113	C90	.9244	C252	.9048
R1P9	.9471	R3P9	.9789	D90	.9135	D252	.8943
		R3P10	1.0006	E90	.9084	E252	.8790
		R3P11	1.0021	144	DEG KAKE	324	DEG KAKE
		R3P12	.9454	A144	.9410	A324	.9147
		R3P13	1.0021	H144	.9305	H324	.9254
		R3P14	1.0020	D144	.9021	D324	.9075
		R3P15	1.0021	E144	.8882	E324	.8918
		R3P16	1.0022	F144	.8742	F324	.8791

SPIKE #2		COWL #4		STATIC PRESSURES					
STAT	XLW/KC= 1.4678	STAT	XLW/KC= 1.5380	SPIKE		COWL		P/P0	
S9	.9019	S20	.8413	TAP	XLW/KC	P/P0	TAP	XLW/KC	P/P0
R2P1	.9124	R4P1	.9657	S1	.90762	.9827	S14	.0340	.8627
R2P2	.9236	R4P2	.9724	S2	.90728	.9388	S15	.1860	.8576
R2P3	.9500	R4P3	.9746	S11	.90728	.9349	S16	.4150	.9018
R2P4	.9729	R4P4	.9755	S12	.90728	.9344	S17	.8470	.8937
R2P5	.9742	R4P5	.9762	S13	.90728	.9419	S18	1.1740	.9011
		R4P6	.9764	S3	.1408	.9143	S19	1.4590	.9021
		R4P7	.9770	S4	.4068	.8703	S20	1.5400	.8413
		R4P8	.9777	S5	.6428	.8755	S21	1.8270	.8996
		R4P9	.9776	S6	.8648	.8770	S22	2.7840	.7553
		R4P10	.9770	S7	1.0176	.8810	S23	3.2980	.7853
		R4P11	.9765	S8	1.1448	.8886	S26	5.2890	.7863
		R4P12	.9756	S9	1.5126	.9019			
				S10	1.8486	.9005			
				S27	5.3000	.7958			
				S28	.6428	.9669			

SPIKE #6		COWL #5	
STAT	XLW/KC= 3.5040	STAT	XLW/KC= 3.3270
S23	.7853	S23	.7853
R6P1	.8935	R5P1	.8571
R6P2	.9200	R5P2	.8634
R6P3	.9243	R5P3	.8731
R6P4	.9321	R5P4	.8752
R6P5	.9378	R5P5	.8864
R6P6	.9364	R5P6	.8964
R6P9	.9304	R5P7	.9254
R6P10	.9203	R5P8	.9507
R6P11	.8874	R5P9	.9504
		R5P10	.9464
		R5P11	.9453

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	49	FLIGHT DATE	09/13/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	296.7 DEG K	MAX-MIN DIST	.1005
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9179 ATMOS	K-CIRCUMF.	.3532
START	3: 0155.000	INTERVAL	1.000	ENG. FACE RECOV	.9040	ENGINE M/M*	.7004	K-RADIAL	.1514
STOP	3: 7125.000	ENG CUR MPH	6298.	ENG. FACE MACH NO	.4549	COWL M/M*	.4395		
				COWL LIP RECOV	.9460	ADDITIVE M/M*	.2609	K-DELTA	.0883
				MACH AT COWL LIP	.2728			K=A	.2397

SPIKE K1		COWL K3		STAT XLW/RC= 5.4830			
STAT	XCW/RC= .0728	STAT	XCW/RC= .0700	36 DEG	HAKE	198 DEG	HAKE
S2	.9380	S14	.8587	A36	.9126	A198	.9307
K1P1	1.0015	K3P1	.8560	H36	.8967	B198	.9353
K1P2	1.0002	K3P2	.8550	C36	.8744	C198	.9304
K1P3	1.0003	K3P3	.8554	U36	.8612	U198	.8919
K1P4	1.0002	K3P4	.8554	E36	.8498	E198	.8663
K1P5	1.0003	K3P5	.8552	90 DEG	HAKE	252 DEG	HAKE
K1P6	1.0003	K3P6	.8501	A90	.9401	A252	.9194
K1P7	1.0002	K3P7	.9713	H90	.9407	H252	.9102
K1P8	1.0002	K3P8	.9153	C90	.9238	C252	.9002
K1P9	.9979	K3P9	.9846	U90	.9126	U252	.8922
		K3P10	1.0017	E90	.9073	E252	.8770
		K3P11	1.0024	144 DEG	HAKE	324 DEG	HAKE
		K3P12	.9956	A144	.9399	A324	.9184
		K3P13	1.0028	H144	.9354	H324	.9238
		K3P14	1.0028	U144	.9018	U324	.9036
		K3P15	1.0027	C144	.8873	C324	.8879
		K3P16	1.0030	E144	.8728	E324	.8754

SPIKE K2		COWL K4		STATIC PRESSURES			
STAT	XCW/RC= 1.4676	STAT	XCW/RC= 1.5380	SPIKE		COWL	
S9	.8994	S20	.8355	XCW/RC	P/PO	IAP	XCW/RC
K2P1	.9105	K4P1	.9606	S1	.9026	S14	.0340
K2P2	.9232	K4P2	.9710	S2	.9728	S15	.1860
K2P3	.9489	K4P3	.9734	S11	.9728	S16	.4150
K2P4	.9729	K4P4	.9751	S12	.9728	S17	.8470
K2P5	.9685	K4P5	.9762	S13	.9728	S18	1.1740
		K4P6	.9761	S3	.1408	S19	1.4590
		K4P7	.9763	S4	.4068	S20	1.5400
		K4P8	.9763	S5	.6428	S21	1.8270
		K4P9	.9766	S6	.8898	S22	2.7840
		K4P10	.9767	S7	1.0178	S23	3.2980
		K4P11	.9757	S8	1.1498	S26	5.2890
		K4P12	.9750	S9	1.5128		.7782

SPIKE K6		COWL K5		SPIKE	
STAT	XCW/RC= 3.5040	STAT	XLW/RC= 3.3270	XCW/RC	P/PO
S23	.7763	S23	.7703	S27	5.3000
K6P1	.8887	K5P1	.8538	S28	.6428
K6P2	.9170	K5P2	.8579		.9663
K6P3	.9217	K5P3	.8688		
K6P4	.9314	K5P4	.8704		
K6P5	.9367	K5P5	.8798		
K6P6	.9392	K5P6	.8973		
K6P9	.9319	K5P7	.9205		
K6P10	.9199	K5P8	.9526		
K6P11	.8928	K5P9	.9508		
		K5P10	.9454		
		K5P11	.9430		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	50	FLIGHT DATE	09/13/79	SPIKE POS.	DX/RC	.8582	AMBIENT TEMP	297.8 DEG K	MAX=MIN DIST	.1000
		FLIGHT NO.	0	BYPASS POS.	OPEN		AMBIENT PRESS	.9185 ATMOS	K=CIRCUMF.	.3369
START	3: 9:30.003	INTERVAL	1.000	ENG. FACE RECOV		.8499	ENGINE M/M*	.7098	K=RADIAL	.1927
STOP	3: 4:59.999	ENG COU RPM	6382.	ENG. FACE MACH NU		.4637	CUML M/M*	.4455		
				CUWL LIP RECOV		.9436	ADDITIVE M/M*	.2642	K=DELTA	.0625
				MACH AT CUWL LIP		.2777			K=A	.2353

SPIKE M1		CUWL M3		STAT XCW/RC= 5.4830			
STAT XCW/RC=	.0728	STAT XCW/RC=	.0700	36 DEG RAKE	148 DEG RAKE		
S2	.9355	S14	.8534	A36	.9100	A148	.9254
R1P1	.9991	R3P1	.8512	H36	.8411	H148	.9321
R1P2	.9988	R3P2	.8510	C36	.8684	C148	.9280
R1P3	.9995	R3P3	.8513	D36	.8555	D148	.8867
R1P4	.9996	R3P4	.8509	E36	.8433	E148	.8609
R1P5	.9996	R3P5	.8510	90 DEG RAKE	252 DEG RAKE		
R1P6	.9997	R3P6	.8516	A90	.9387	A252	.9178
R1P7	.9999	R3P7	.9681	H90	.9387	H252	.9048
R1P8	.9993	R3P8	.9157	C90	.9193	C252	.8936
R1P9	.9974	R3P9	.9852	D90	.9074	D252	.8877
		R3P10	1.0015	E90	.9043	E252	.8731
		R3P11	1.0016	144 DEG RAKE	324 DEG RAKE		
		R3P12	.9950	A144	.9372	A324	.9183
		R3P13	1.0022	H144	.9336	H324	.9191
		R3P14	1.0024	D144	.8461	D324	.8949
		R3P15	1.0020	C144	.8813	C324	.8856
		R3P16	1.0024	E144	.8665	E324	.8726

SPIKE M2		CUWL M4		STATIC PRESSURES					
STAT XCW/RC=	1.4678	STAT XCW/RC=	1.5380	SPIKE			CUWL		
S9	.8956	S20	.8297	XCW/RC	P/PO	IAP	XCW/RC	P/PO	
R2P1	.9073	R4P1	.9577	TAP					
R2P2	.9211	R4P2	.9645	S1	.0762	.9816	S14	.0340	.8534
R2P3	.9463	R4P3	.9734	S2	.0728	.9355	S15	.1860	.8477
R2P4	.9720	R4P4	.9741	S11	.0728	.9357	S16	.4150	.8956
R2P5	.9737	R4P5	.9734	S17	.0728	.9376	S17	.8470	.8866
		R4P6	.9741	S13	.0728	.9381	S18	1.1740	.8942
		R4P7	.9755	S3	.1408	.9090	S19	1.4590	.8955
		R4P8	.9752	S4	.4068	.8620	S20	1.5400	.8297
		R4P9	.9747	S5	.6428	.8676	S21	1.8270	.8929
		R4P10	.9740	S6	.8848	.8641	S22	2.7840	.7358
		R4P11	.9740	S7	1.0178	.8735	S23	3.2960	.7674
		R4P12	.9735	S8	1.1498	.8816	S26	5.2890	.7703
				S9	1.5128	.8956			
				S10	1.8488	.8924			

SPIKE M6		CUWL M5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.7674	S23	.7674
R6P1	.8844	R5P1	.8480
R6P2	.9135	R5P2	.8542
R6P3	.9194	R5P3	.8601
R6P4	.9286	R5P4	.8662
R6P5	.9337	R5P5	.8752
R6P8	.9367	R5P6	.8843
R6P9	.9300	R5P7	.9252
R6P10	.9158	R5P8	.9518
R6P11	.8857	R5P9	.9446
		R5P10	.9457
		R5P11	.9427

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	51	FLIGHT DATE	09/13/79	SPIKE POS. OX/KC	.8582	AMBIENT TEMP	296.7 DEG K	MAX-MIN DIST	.1086
START	3:14:10.002	FLIGHT NU.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9172 ATMUS	K=CIRCUMF.	.3256
STOP	3:14:39.998	INTERVAL	1.000	ENG. FACE RECOV	.8480	ENGINE M/M*	.7256	K=RADIAL	.1475
		ENG LUN RPM	6481.	ENG. FACE MACH NU	.4718	COWL M/M*	.4508	K=DELTA	.0852
				COWL LIP RECOV	.9438	ADDITIVE M/M*	.2748	K=A	.2327
				MACH AT COWL LIP	.2812				

SPIKE R1		COWL K3		STAT XLM/KC= 5.4830			
STAT XCM/KC=	.0728	STAT XCM/KC=	.0700	36 DEG MAKE	198 DEG MAKE		
S2	.9353	S14	.8514	A36	.9108	A198	.9271
R1P1	.9999	R3P1	.8491	H36	.8406	H198	.9304
R1P2	1.0000	R3P2	.8488	C36	.8682	C198	.9274
R1P3	1.0010	R3P3	.8489	D36	.8522	D198	.8873
R1P4	1.0008	R3P4	.8487	E36	.8417	E198	.8585
R1P5	1.0009	R3P5	.8488	90 DEG MAKE		252 DEG MAKE	
R1P6	1.0007	R3P6	.8489	A90	.9369	A252	.9117
R1P7	1.0010	R3P7	.9643	H90	.9393	H252	.9014
R1P8	1.0008	R3P8	.9172	C90	.9181	C252	.8924
R1P9	.9488	R3P9	.9844	D90	.9042	D252	.8864
		R3P10	1.0052	E90	.9006	E252	.8710
		R3P11	1.0053	144 DEG MAKE		324 DEG MAKE	
		R3P12	.9467	A144	.9347	A324	.9136
		R3P13	1.0055	H144	.9320	H324	.9197
		R3P14	1.0058	D144	.8450	C324	.8980
		R3P15	1.0056	C144	.8745	U324	.8807
		R3P16	1.0040	E144	.8641	E324	.8659

SPIKE K2		COWL K4		STATIC PRESSURES					
STAT XCM/KC=	1.4678	STAT XCM/KC=	1.5380	SPIKE		COWL			
S9	.8941	S20	.8263	XCM/KC	P/PO	TAP	XCM/KC	P/PO	
K2P1	.9053	K4P1	.9604	S1	.0762	.9822	S14	.0340	.8514
K2P2	.9198	K4P2	.9707	S2	.0728	.9353	S15	.1860	.8454
K2P3	.9463	K4P3	.9757	S11	.0728	.9364	S16	.4150	.8947
K2P4	.9727	K4P4	.9748	S12	.0728	.9365	S17	.8470	.8850
K2P5	.9746	K4P5	.9759	S13	.0728	.9365	S18	1.1740	.8926
		K4P6	.9765	S3	.1408	.9078	S19	1.4590	.8937
		K4P7	.9767	S4	.4088	.8545	S20	1.5400	.8263
		K4P8	.9770	S5	.6426	.8651	S21	1.8270	.8915
		K4P9	.9774	S6	.8848	.8670	S22	2.7840	.7289
		K4P10	.9769	S7	1.0178	.8714	S23	3.2980	.7624
		K4P11	.9761	S8	1.1448	.8802	S26	5.2890	.7644
		K4P12	.9755	S9	1.3128	.8941			
				S10	1.8888	.8919			
				S27	5.3060	.7746			
				S28	.6428	.9650			

SPIKE K6		COWL K5	
STAT XCM/KC=	3.5040	STAT XCM/KC=	3.3270
S23	.7624	S23	.7624
K6P1	.8826	K5P1	.8434
K6P2	.9134	K5P2	.8511
K6P3	.9183	K5P3	.8541
K6P4	.9285	K5P4	.8657
K6P5	.9336	K5P5	.8710
K6P8	.9350	K5P6	.8844
K6P9	.9285	K5P7	.9237
K6P10	.9177	K5P8	.9521
K6P11	.8855	K5P9	.9487
		K5P10	.9435
		K5P11	.9406

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	52	FLIGHT DATE	09/13/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	296.7 DEG K	MAX-MIN DIST	.1132
START	3:16:50.000	FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9181 ATMOS	K-CIRCUMF.	.3222
STOP	3:17:19.997	INTERVAL	1.000	ENG. FALLE RECUV	.8946	ENGINE M/M*	.7363	K-RADIAL	.1478
		ENG LOK RPM	6586.	ENG. FACE MACH NO	.4810	COWL M/M*	.4512	K-DELTA	.0920
				COWL LIP RECUV	.9406	ADDITIVE M/M*	.2851	K-A	.2398
				MACH AT COWL LIP	.2826				

SPIKE R1		COWL K3		STAT XCW/KC= 5.4830	
STAT XCW/KC=	.0728	STAT XLW/KC=	.0700	36 DEG MAKE	198 DEG MAKE
S2	.9324	S14	.8473	A36	.4056 A198
R1P1	.9992	R3P1	.8447	H36	.8073 H198
R1P2	.9992	R3P2	.8444	C36	.8041 C198
R1P3	1.0001	R3P3	.8447	D36	.8483 D198
R1P4	.9907	R3P4	.8445	E36	.8343 E198
R1P5	.9995	R3P5	.8444	90 DEG MAKE	252 DEG MAKE
R1P6	.9901	R3P6	.8445	A90	.4345 A252
R1P7	1.0003	R3P7	.9061	H90	.4348 H252
R1P8	.9999	R3P8	.9096	C90	.4150 C252
R1P9	.9931	R3P9	.9858	D90	.4013 D252
		R3P10	1.0021	E90	.8986 E252
		R3P11	1.0023	144 DEG MAKE	324 DEG MAKE
		R3P12	.9953	A144	.4355 A324
		R3P13	1.0028	H144	.9316 H324
		R3P14	1.0029	D144	.8906 D324
		R3P15	1.0029	C144	.8753 C324
		R3P16	1.0030	E144	.8600 E324

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/KC=	1.4678	STAT XCW/KC=	1.5380	SPIKE		COWL	
S9	.8902	S20	.8205	XCW/KC	P/P0	IAP	P/P0
R2P1	.9020	R4P1	.9573	S1	.0762 .9811	S14	.0340 .8473
R2P2	.9134	R4P2	.9689	S2	.0728 .9324	S15	.1860 .8412
R2P3	.9433	R4P3	.9717	S11	.0728 .9338	S16	.4150 .8908
R2P4	.9708	R4P4	.9755	S12	.0728 .9335	S17	.8470 .8808
R2P5	.9739	R4P5	.9746	S13	.0728 .9359	S18	1.1740 .8892
		R4P6	.9752	S3	.1408 .9052	S19	1.4590 .8901
		R4P7	.9763	S4	.4068 .8553	S20	1.5400 .8205
		R4P8	.9755	S5	.6428 .8610	S21	1.8270 .8876
		R4P9	.9752	S6	.8898 .8629	S22	2.7840 .7211
		R4P10	.9750	S7	1.0178 .8671	S23	3.2980 .7543
		R4P11	.9746	S8	1.1448 .8753	S26	5.2890 .7567
		R4P12	.9745	S9	1.5128 .8902		
				S10	1.8488 .8874		
				S27	5.3000 .7675		
				S28	.6428 .9635		

SPIKE R6		COWL K5	
STAT XCW/KC=	3.5040	STAT XCW/KC=	3.3270
S23	.7543	S23	.7543
R6P1	.8773	R5P1	.8411
R6P2	.9091	R5P2	.8456
R6P3	.9157	R5P3	.8533
R6P4	.9249	R5P4	.8596
R6P5	.9301	R5P5	.8664
R6P8	.9328	R5P6	.8825
R6P9	.9266	R5P7	.9217
R6P10	.9144	R5P8	.9496
R6P11	.8791	R5P9	.9466
		R5P10	.9418
		R5P11	.9345

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	53	FLIGHT DATE	09/13/79	SPIKE POS. DI/KC	.8582	AMBIENT TEMP	296.7 DEG K	MAX-MIN DIST	.1119
		FLIGHT NO.	0	BYPASS POS. OPEN		AMBIENT PRESS	.9188 ATMOS	K-CIRCUMF.	.3090
START	3:18:37.000	INTERVAL	1.000	ENG. FACE RECOV	.8914	ENGINE M/M*	.7875	K-RADIAL	.1434
STOP	3:19: 7.000	ENG LOK RPM	6704.	ENG. FACE MACH NU	.4901	COWL M/M*	.4575	K-DELTA	.0889
				COWL LIP RECOV	.9390	ADDITIVE M/M*	.2900	K=A	.2322
				MACH AT COWL LIP	.2875				

SPIKE R1		COWL K3		STAT XLM/KC= 5.4830	
STAT XCM/KC=	.0728	STAT XLM/KC=	.0700	36 DEG RAKE	198 DEG RAKE
S2	.9304	S14	.8429	A36	.9028 A198
R1P1	.9933	K3P1	.8408	H36	.8824 H198
R1P2	.9987	K3P2	.8407	C36	.8583 C198
R1P3	.9996	K3P3	.8403	D36	.8436 D198
R1P4	.9995	K3P4	.8404	E36	.8328 E198
R1P5	.9995	K3P5	.8402	90 DEG RAKE	252 DEG RAKE
R1P6	.9995	K3P6	.8405	A90	.9293 A252
R1P7	.9996	K3P7	.9026	B90	.9325 B252
R1P8	.9994	K3P8	.9071	C90	.9112 C252
R1P9	.9967	K3P9	.9853	D90	.8482 D252
		K3P10	1.0015	E90	.8910 E252
		K3P11	1.0017	144 DEG RAKE	324 DEG RAKE
		K3P12	.9949	A144	.9324 A324
		K3P13	1.0020	B144	.9292 B324
		K3P14	1.0023	D144	.8887 D324
		K3P15	1.0020	C144	.8751 C324
		K3P16	1.0024	E144	.8614 E324

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCM/KC=	1.4678	STAT XLM/KC=	1.5340	SPIKE		COWL	
S9	.8870	S20	.8149	XLM/KC	P/PU	IAP	XLM/KC
R2P1	.8987	K4P1	.9557	TAP			P/PU
R2P2	.9150	K4P2	.9677	S1	.0762	.9800	S14
R2P3	.9298	K4P3	.9707	S2	.0728	.9304	S15
R2P4	.9710	K4P4	.9722	S11	.0728	.9318	S16
R2P5	.9722	K4P5	.9733	S12	.0728	.9315	S17
		K4P6	.9732	S13	.0728	.9334	S18
		K4P7	.9736	S3	.1408	.9024	S19
		K4P8	.9747	S4	.4068	.8512	S20
		K4P9	.9746	S5	.0428	.8571	S21
		K4P10	.9736	S6	.8848	.8591	S22
		K4P11	.9738	S7	1.0178	.8635	S23
		K4P12	.9727	S8	1.1448	.8723	S26
				S9	1.5128	.8870	
				S10	1.8488	.8850	
				S27	5.3000	.7604	
				S28	.0428	.9616	

SPIKE R6		COWL K5	
STAT XCM/KC=	3.5040	STAT XLM/KC=	3.3270
S23	.7473	S23	.7473
K6P1	.8758	K5P1	.8347
K6P2	.9055	K5P2	.8416
K6P3	.9149	K5P3	.8511
K6P4	.9214	K5P4	.8550
K6P5	.9274	K5P5	.8620
K6P8	.9305	K5P6	.8760
K6P9	.9237	K5P7	.9153
K6P10	.9086	K5P8	.9477
K6P11	.8762	K5P9	.9451
		K5P10	.9400
		K5P11	.9388

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	55	FLIGHT DATE	04/13/79	SPIKE POS. OX/KC	.4558	AMBIENT TEMP	299.4 DEG K	MAX-MIN DIST	.0344
START	3:29:35.001	FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9179 ATMOS	K-CIRCUMF.	.7783
STOP	3:30:4.999	INTERVAL	1.000	ENG. FACE RECUV	.9775	ENGINE M/M*	.6078	K-RADIAL	.1140
		ENG LOK RPM	3821.	ENG. FACE MACH NU	.2129	COWL M/M*	.2332	K-DELTA	.0954
				COWL LIP RECUV	.9668	ADDITIVE M/M*	.3746	K-A	.2094
				MACH AT COWL LIP	.1076				

SPIKE K1		COWL K3		STAT XCW/KC= 5.4850	
STAT XCW/KC=	.4752	STAT XCW/KC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9791	S14	.9785	A36	.9774
R1P1	1.0021	R3P1	.9784	M36	.9745
R1P2	1.0016	R3P2	.9786	C36	.9681
R1P3	1.0027	R3P3	.9784	D36	.9631
R1P4	1.0024	R3P4	.9784	E36	.9593
R1P5	1.0026	R3P5	.9783	90 DEG HAKE	252 DEG HAKE
R1P6	1.0026	R3P6	.9783	A90	.9424
R1P7	1.0025	R3P7	.9405	M90	.9427
R1P8	1.0023	R3P8	.9787	C90	.9447
R1P9	1.0006	R3P9	.9425	D90	.9400
		R3P10	.9431	E90	.9780
		R3P11	.9547	144 DEG HAKE	324 DEG HAKE
		R3P12	1.0028	A144	.9416
		R3P13	1.0052	M144	.9874
		R3P14	1.0054	D144	.9764
		R3P15	1.0054	C144	.9717
		R3P16	1.0055	E144	.9604

SPIKE K2		COWL K4		STATIC PRESSURES			
STAT XCW/KC=	1.8702	STAT XCW/KC=	1.5386	SPIKE		COWL	
S9	.9734	S26	.9539	XCW/KC	P/PO	TAP	P/PO
K2P1	.9224	K4P1	.9477	S1	.5202	S14	.0340
K2P2	.9933	K4P2	.9444	S2	.4752	S15	.1860
K2P3	.9982	K4P3	1.0000	S11	.4752	S16	.4150
K2P4	.9973	K4P4	.9949	S12	.4752	S17	.4470
K2P5	.9920	K4P5	1.0004	S13	.4752	S18	1.1740
		K4P6	1.0005	S3	.5432	S19	1.4590
		K4P7	1.0006	S4	.6092	S20	1.5400
		K4P8	1.0011	S5	1.0452	S21	1.8270
		K4P9	1.0017	S6	1.2922	S22	2.7840
		K4P10	1.0022	S7	1.4202	S23	3.2980
		K4P11	1.0028	S8	1.5522	S26	5.2890
		K4P12	1.0028	S9	1.9152		
				S10	2.2512		
				S27	5.3000		
				S28	1.0452		

SPIKE K6		COWL K5	
STAT XCW/KC=	3.5040	STAT XCW/KC=	3.3270
S23	.9462	S25	.9462
R6P1	.9672	K5P1	.9664
R6P2	.9764	K5P2	.9689
R6P3	.9762	K5P3	.9710
R6P4	.9784	K5P4	.9723
R6P5	.9404	K5P5	.9737
R6P8	.9877	K5P6	.9781
R6P9	.9860	K5P7	.9883
R6P10	.9813	K5P8	.9973
R6P11	.9711	K5P9	.9964
		K5P10	.9941
		K5P11	.9939

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	56	FLIGHT DATE 09/13/79	SPIKE POS. DX/RC	.4558	AMBIENT TEMP	297.8 DEG K	MAX-MIN DIST	.0790
START	3:33:34.000	FLIGHT NO. 0	BYPASS POS. OPEN		AMBIENT PRESS	.9189 ATMUS	K=CIRCUMF.	.0272
STOP	3:34:4.000	INTERVAL 1.000	ENG. FALC REC'D	.9471	ENGINE M/M*	.6963	K=RADIAL	.1965
		ENG CLK RPM 5016.	ENG. FALC MACH NO	.3266	COWL M/M*	.3725	K=DELTA	.1476
			COWL LIP REC'D	.9696	ADDITIVE M/M*	.3739	K=A	.3442
			MACH AT COWL LIP	.1770				

SPIKE R1		COWL K3		STAT XLM/RC= 5.4830			
STAT XCM/RC=	.4752	STAT XLM/KL=	.0700	36 DEG MAKE	198 DEG MAKE		
S2	.9512	S14	.9461	A36	.9508	A198	.9650
K1P1	1.0002	K3P1	.9470	K36	.9436	B198	.9723
K1P2	.9999	K3P2	.9467	C36	.9234	C198	.9642
K1P3	1.0004	K3P3	.9464	D36	.9203	D198	.9342
K1P4	1.0003	K3P4	.9465	E36	.9073	E198	.9225
K1P5	1.0007	R3P5	.9463	90 DEG MAKE	252 DEG MAKE		
K1P6	1.0007	K3P6	.9464	A90	.9821	A252	.9621
K1P7	1.0006	R3P7	.9478	B90	.9788	B252	.9525
K1P8	1.0007	K3P8	.9473	C90	.9613	C252	.9415
K1P9	.9969	R3P9	.9564	D90	.9511	D252	.9377
		K3P10	.9773	E90	.9463	E252	.9274
		K3P11	1.0002	144 DEG MAKE	324 DEG MAKE		
		K3P12	.9966	A144	.9803	A324	.9490
		K3P13	1.0035	B144	.9737	B324	.9501
		K3P14	1.0033	D144	.9430	C324	.9402
		K3P15	1.0037	E144	.9324	D324	.9377
		K3P16	1.0040		.9207	E324	.9357

SPIKE R2		COWL K4		STATIC PRESSURES				
STAT XCM/RC=	1.8702	STAT XLM/KL=	1.5380	SPIKE		COWL		
S9	.9388	S20	.8936	XCM/KL	P/PO	IAP	P/PO	
R2P1	.9657	R4P1	.9867	S1	.3262	.9488	S14	.0340
R2P2	.9811	R4P2	.9921	S2	.4752	.9512	S15	.1860
R2P3	.9915	R4P3	.9931	S11	.4752	.9506	S16	.4150
R2P4	.9903	R4P4	.9931	S12	.4752	.9504	S17	.8470
R2P5	.9777	R4P5	.9942	S13	.4752	.9520	S18	1.1740
		R4P6	.9944	S3	.5432	.9559	S19	1.4590
		R4P7	.9959	S4	.8092	.9482	S20	1.5400
		R4P8	.9958	S5	1.0432	.9425	S21	1.8270
		R4P9	.9964	S6	1.2922	.9434	S22	2.7840
		R4P10	.9977	S7	1.4202	.9415	S23	3.2980
		R4P11	.9978	S8	1.5522	.9372	S26	5.2690
		R4P12	.9984	S9	1.9152	.9388		
				S10	2.2512	.9315		
				S27	5.3000	.8745		
				S28	1.0432	.9857		

SPIKE R6		COWL K5	
STAT XCM/RC=	3.5040	STAT XLM/KL=	3.3270
S23	.8714	S23	.8714
R6P1	.9246	K5P1	.9144
R6P2	.9434	K5P2	.9176
R6P3	.9425	K5P3	.9232
R6P4	.9494	K5P4	.9251
R6P5	.9537	K5P5	.9314
R6P8	.9717	K5P6	.9368
R6P9	.9675	K5P7	.9583
R6P10	.9594	K5P8	.9867
R6P11	.9368	P5P4	.9864
		K5P10	.9812
		K5P11	.9747

VF-12 INLET NOISE SUPPRESSION STUDY

RUN	57	FLIGHT DATE	09/13/79	SPIKE POS. DX/RX	.4557	AMBIENT TEMP	297.8 DEG K	MAX=MIN DIST	.1069
		FLIGHT NO.	0	BYPASS POS.	UPEN	AMBIENT PRESS	.9188 ATMOS	K=CIRCUMF.	.5588
START	3:36:15.000	INTERVAL	1.000	ENG. FACE RECOV	.9293	ENGINE M/M*	.7539	K=RADIAL	.2084
STOP	3:36:44.999	ENG LOU RPM	5621.	ENG. FACE MACH NO	.3401	COWL M/M*	.4050	K=DELTA	.1708
				COWL LIP RECOV	.9582	ADDITIVE M/M*	.3889	K=A	.3792
				MACH AT LOU/LIP	.1956				

SPIKE R1		COWL K3		STAT XLM/RCL= 5.4830			
STAT XCM/RCL=	.4753	STAT XLM/RCL=	.0700	30 DEG MAKE	198 DEG MAKE		
S2	.9357	S14	.9302	A36	.9314	A198	.9535
R1P1	.9999	K3P1	.9296	K36	.9236	B198	.9633
R1P2	.9996	K3P2	.9301	C36	.9031	C198	.9531
R1P3	1.0018	K3P3	.9303	D36	.8882	D198	.9202
R1P4	1.0000	K3P4	.9302	E36	.8777	E198	.8965
R1P5	1.0008	K3P5	.9302	90 DEG MAKE		252 DEG MAKE	
R1P6	1.0006	F3P6	.9304	A90	.9771	A252	.9436
R1P7	1.0010	K3P7	.9836	H90	.9724	H252	.9334
R1P8	1.0011	K3P8	.9312	C90	.9442	C252	.9234
R1P9	.9962	K3P9	.9417	U90	.9343	D252	.9162
		K3P10	.9685	E90	.9280	F252	.9040
		K3P11	.9982	144 DEG MAKE		324 DEG MAKE	
		K3P12	.9969	A144	.9744	A324	.9312
		K3P13	1.0035	H144	.9634	H324	.9334
		K3P14	1.0035	D144	.9272	C324	.9236
		K3P15	1.0037	C144	.9112	D324	.9170
		F3P16	1.0039	E144	.8452	E324	.9103

SPIKE R2		COWL K4		STATIC PRESSURES					
STAT XCM/RCL=	1.8703	STAT XLM/RCL=	1.5380	SPIKE		COWL			
S9	.9189	S20	.8564	ALM/RCL	P/P0	IAP	P/P0		
R2P1	.9535	K4P1	.9823	S1	.5263	.9343	S14	.0340	.9302
R2P2	.9741	K4P2	.9878	S2	.4753	.9357	S15	.1860	.9249
R2P3	.9890	K4P3	.9897	S11	.4753	.9357	S16	.4150	.9359
R2P4	.9871	K4P4	.9901	S12	.4753	.9364	S17	.8470	.9864
R2P5	.9693	K4P5	.9910	S13	.4753	.9383	S18	1.1740	.9337
		K4P6	.9909	S3	.5433	.9432	S19	1.4590	.9244
		K4P7	.9928	S4	.8043	.9324	S20	1.5400	.8584
		K4P8	.9936	S5	1.0453	.9251	S21	1.8270	.9179
		K4P9	.9944	S6	1.2423	.9262	S22	2.7040	.7925
		K4P10	.9955	S7	1.4203	.9233	S23	3.2980	.8252
		K4P11	.9960	S8	1.5523	.9169	S26	5.2690	.8322
		K4P12	.9970	S9	1.9153	.9189			
				S10	2.2513	.9096			
				S27	5.5000	.8376			
				S28	1.0453	.9814			

SPIKE R6		COWL K5	
STAT XCM/RCL=	3.5040	STAT XLM/RCL=	3.3270
S23	.8252	S23	.8252
K6P1	.8965	K5P1	.8813
K6P2	.9217	K5P2	.8876
K6P3	.9238	K5P3	.8924
K6P4	.9317	K5P4	.8965
K6P5	.9365	K5P5	.9036
K6P8	.9628	K5P6	.9123
K6P9	.9581	K5P7	.9462
K6P10	.9456	K5P8	.9814
K6P11	.9169	K5P9	.9820
		K5P10	.9773
		K5P11	.9735

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	58	FLIGHT DATE	09/13/79	SPIKE POS. DX/KC	.4558	AMBIENT TEMP	298.9 DEG K	MAX-MIN DIST	.1309
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9184 ATMOS	K=CIRCUMF.	.4584
START	3:39:08.003	INTERVAL	1.000	ENG. FACE REC'D	.9107	ENGINE M/M*	.8278	K=RADIAL	.2068
STOP	3:39:37.999	ENG CUR RPM	6107.	ENG. FACE MACH NO	.4364	COWL M/M*	.4355	K=DELTA	.1521
				COWL LIP REC'D	.9508	ADDITIVE M/M*	.3922	K=A	.3589
				MACH AT COWL LIP	.2128				

SPIKE #1		COWL #3		STAT XCM/KC= 5.4830	
STAT XCM/KC=	.4752	STAT XCM/KC=	.0700	36 DEG	HAKE
S7	.9246	S14	.9179	A36	.9177
K1P1	.9999	K3P1	.9175	H36	.9108
K1P2	.9995	K3P2	.9174	C36	.8835
K1P3	1.0000	K3P3	.9177	D36	.8803
K1P4	1.0000	K3P4	.9178	E36	.8527
K1P5	1.0007	K3P5	.9175	90 DEG	HAKE
K1P6	1.0014	K3P6	.9172	A90	.9727
K1P7	1.0007	K3P7	.9803	H90	.9053
K1P8	.9988	K3P8	.9195	C90	.9350
K1P9	.9964	K3P9	.9336	D90	.9143
		K3P10	.9008	E90	.9130
		K3P11	.9984	144 DEG	HAKE
		K3P12	.9905	A144	.9704
		K3P13	1.0039	H144	.9594
		K3P14	1.0039	D144	.9123
		K3P15	1.0037	C144	.8472
		K3P16	1.0038	E144	.8821

SPIKE #2		COWL #4		STATIC PRESSURES			
STAT XCM/KC=	1.8702	STAT XCM/KC=	1.5380	SPIKE		TAP	COWL
S9	.9051	S20	.8349	XCM/KC	P/PU	TAP	XCM/KC
K2P1	.9455	K4P1	.9795	S1	.5202	S14	.0340
K2P2	.9704	K4P2	.9870	S2	.4752	S15	.1860
K2P3	.9875	K4P3	.9873	S11	.4752	S16	.4150
K2P4	.9851	K4P4	.9874	S12	.4752	S17	.8470
K2P5	.9673	K4P5	.9884	S13	.4752	S18	1.1740
		K4P6	.9886	S3	.5432	S19	1.4590
		K4P7	.9415	S4	.8042	S20	1.5400
		K4P8	.9421	S5	1.0452	S21	1.8270
		K4P9	.9427	S6	1.2422	S22	2.7640
		K4P10	.9437	S7	1.4202	S23	3.2480
		K4P11	.9453	S8	1.5522	S26	5.2890
		K4P12	.9467	S9	1.4152		
				S10	2.2512		
				S27	5.3000		
				S28	1.0452		

SPIKE #6		COWL #5	
STAT XCM/KC=	3.5040	STAT XCM/KC=	3.3270
S23	.7910	S23	.7910
R6P1	.8791	K5P1	.8587
K6P2	.9021	K5P2	.8638
R6P3	.9043	K5P3	.8703
K6P4	.9174	K5P4	.8702
K6P5	.9224	K5P5	.8845
R6P8	.9592	K5P6	.8423
K6P9	.9530	K5P7	.9313
K6P10	.9404	K5P8	.9700
K6P11	.9023	K5P9	.9791
		K5P10	.9732
		K5P11	.9707

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	59	FLIGHT DATE 09/13/79	SPIKE POS. DX/HC	.4558	AMBIENT TEMP	298.9 DEG K	MAX-MIN DIST	.1399
		FLIGHT NO.	0		AMBIENT PRESS	.9185 ATMUS	K-CIRCUMF.	.4226
START	3:42:4.001	INTERVAL	1.000	ENG. FUEL REC'D	.9098	ENGINE M/M*	K-RADIAL	.1947
STOP	3:42:33.998	ENG CLK RPM	6279.	ENG. FUEL MACH NO	.4574	COWL M/M*		
				COWL LIP REC'D	.9474	ADDITIVE M/M*	K-DELTA	.1505
				MACH AT COWL LIP	.2197		K-A	.3452

SPIKE R1		COWL K3		STAT XCW/KC= 5.4830	
STAT XCW/KC=	.4752	STAT XCW/KC=	.0700	36 DEG	RAKE
S2	.9198	S14	.9124	A36	.9136
R1P1	.9998	H3P1	.9119	M36	.9023
R1P2	.9989	H3P2	.9124	C36	.8747
R1P3	1.0034	H3P3	.9122	D36	.8548
R1P4	1.0010	H3P4	.9118	E36	.8444
R1P5	1.0005	H3P5	.9119	90 DEG	RAKE
R1P6	1.0005	H3P6	.9118	A90	.9118
R1P7	1.0016	H3P7	.9802	B90	.9072
R1P8	1.0003	H3P8	.9137	C90	.9321
R1P9	.9953	H3P9	.9289	D90	.9147
		H3P10	.9645	E90	.9076
		H3P11	.9980	144 DEG	RAKE
		H3P12	.9958	A144	.9658
		H3P13	1.0037	M144	.9571
		H3P14	1.0036	D144	.9044
		H3P15	1.0036	C144	.8874
		H3P16	1.0036	E144	.8700
				324 DEG	RAKE
				A324	.9123
				M324	.9148
				D324	.9046
				C324	.8931
				E324	.8835

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/KC=	1.8702	STAT XCW/KC=	1.5380	SPIKE		COWL	
S9	.8978	S20	.8232	XCW/KC	P/PU	TAP	P/PU
R2P1	.9421	H4P1	.9765	S1	.3262	S14	.0340
R2P2	.9885	H4P2	.9851	S2	.4752	S15	.1860
R2P3	.9873	H4P3	.9865	S11	.4752	S16	.4150
R2P4	.9838	H4P4	.9878	S12	.4752	S17	.8470
R2P5	.9611	H4P5	.9876	S13	.4752	S18	1.1740
		H4P6	.9883	S3	.5432	S19	1.4590
		H4P7	.9843	S4	.8092	S20	1.5400
		H4P8	.9911	S5	1.0452	S21	1.8270
		H4P9	.9921	S6	1.2422	S22	2.7840
		H4P10	.9930	S7	1.4202	S23	3.2980
		H4P11	.9942	S8	1.5522	S26	5.2890
		H4P12	.9952	S9	1.7152		
				S10	2.2512		
				S27	5.3000		
				S28	1.0452		

SPIKE R6		COWL K5	
STAT XCW/KC=	3.5040	STAT XCW/KC=	3.3270
S23	.7726	S23	.7726
R6P1	.8632	H5P1	.8465
R6P2	.8945	H5P2	.8522
R6P3	.8988	H5P3	.8557
R6P4	.9086	H5P4	.8621
R6P5	.9174	H5P5	.8672
R6P6	.9561	H5P6	.8837
R6P7	.9517	H5P7	.9238
R6P10	.9349	H5P8	.9756
R6P11	.8945	H5P9	.9794
		H5P10	.9704
		H5P11	.9679

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	00	FLIGHT DATE	09/13/79	SPIKE POS. DX/MC	.4558	AMBIENT TEMP	299.4 DEG K	MAX-MIN DIST	.1516
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9180 ATMOS	K-CIRCUMF.	.3056
START	3:44:20.000	INTERVAL	1.000	ENG. FACE RECOV	.9037	ENGINE M/M*	.9024	K-RADIAL	.1868
STOP	3:44:50.000	ENG. LOK RPM	6465.	ENG. FACE MACH NO	.4794	COWL M/M*	.4837	K-DELTA	.1422
				COWL LIP RECOV	.9433	ADDITIVE M/M*	.4487	K-A	.3290
				MACH AT COWL LIP	.2241				

SPIKE K1		COWL K3		STAT XCM/MC= 5.4850	
STAT XCM/MC=	.4752	STAT XCM/MC=	.0700	36 DEG MAKE	198 DEG MAKE
S2	.9142	S14	.9076	A36	.9000
K1P1	1.0003	K3P1	.9077	H36	.8401
K1P2	.9943	K3P2	.9074	C36	.8041
K1P3	.9888	K3P3	.9071	D36	.8450
K1P4	1.0002	K3P4	.9074	E36	.8319
K1P5	1.0004	K3P5	.9069	90 DEG MAKE	252 DEG MAKE
K1P6	1.0005	K3P6	.9071	A90	.9090
K1P7	.9934	K3P7	.9799	H90	.9013
K1P8	1.0005	K3P8	.9080	C90	.9276
K1P9	.9946	K3P9	.9205	D90	.9088
		K3P10	.9548	E90	.9009
		K3P11	.9965	144 DEG MAKE	324 DEG MAKE
		K3P12	.9954	A144	.9059
		K3P13	1.0037	H144	.9516
		K3P14	1.0038	D144	.8468
		K3P15	1.0037	C144	.8797
		K3P16	1.0042	E144	.8026
					.8795

SPIKE K2		COWL K4		STATIC PRESSURES			
STAT XCM/MC=	1.4702	STAT XCM/MC=	1.5380	SPIKE		COWL	
S9	.8906	S20	.8136	XLW/MC	P/PO	TAP	XCM/MC
R2P1	.9383	K4P1	.9706	S1	.5202	.9133	S14
R2P2	.9056	K4P2	.9834	S2	.4752	.9142	S15
R2P3	.9868	K4P3	.9845	S11	.4752	.9150	S16
R2P4	.9829	K4P4	.9853	S12	.4752	.9154	S17
R2P5	.9575	K4P5	.9856	S13	.4752	.9186	S18
		K4P6	.9862	S3	.5432	.9247	S19
		K4P7	.9874	S4	.8442	.9105	S20
		K4P8	.9891	S5	1.0452	.9005	S21
		K4P9	.9907	S6	1.2422	.9015	S22
		K4P10	.9931	S7	1.4202	.8977	S23
		K4P11	.9945	S8	1.5522	.8887	S26
		K4P12	.9946	S9	1.7152	.8906	
				S10	2.2512	.8765	
				S27	5.3000	.7751	
				S28	1.0452	.9758	
							5.2890
							.7646

SPIKE K6		COWL K5	
STAT XCM/MC=	3.5040	STAT XCM/MC=	3.3270
S23	.7561	S23	.7561
K6P1	.8502	K5P1	.8356
K6P2	.8802	K5P2	.8419
K6P3	.8884	K5P3	.8508
K6P4	.9015	K5P4	.8519
K6P5	.9107	K5P5	.8644
K6P6	.9501	K5P6	.8732
K6P9	.9476	K5P7	.9246
K6P10	.9343	K5P8	.9725
K6P11	.8934	K5P9	.9775
		K5P10	.9698
		K5P11	.9662

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	03	FLIGHT DATE	09/13/79	SPIKE POS. OX/RC	.0834	AMBIENT TEMP	300.6 DEG K	MAX-MIN DIST	.0212
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9183 ATMOS	K=CIRCUMF.	.0941
START	3:54:18.000	INTERVAL	1.000	ENG. FACE REC'D	.9710	ENGINE M/M*	.8660	K=RADIAL	.0466
STOP	3:54:47.997	ENG CUR RPM	3827.	ENG. FACE MACH NO	.1928	COWL M/M*	.3461	K=DELTA	.0111
				COWL LIP REC'D	.9841	ADDITIVE M/M*	.5199	K=A	.0576
				MACH AT COWL LIP	.1117				

SPIKE R1		COWL R3		STAT XCW/RC= 5.4830			
STAT XCW/RC=	.8476	STAT XCW/RC=	.0700	30 DEG MAKE	148 DEG MAKE		
S2	.9788	S14	.9723	A36	.9644	A198	.9731
R1P1	.9999	R3P1	.9720	B36	.9747	B198	.9771
R1P2	1.0060	R3P2	.9718	C36	.9764	C198	.9811
R1P3	1.0024	R3P3	.9719	D36	.9734	D198	.9718
R1P4	1.0024	R3P4	.9718	E36	.9710	E198	.9614
R1P5	1.0024	R3P5	.9718	90 DEG MAKE	252 DEG MAKE		
R1P6	1.0023	R3P6	.9719	A90	.9713	A252	.9660
R1P7	1.0024	R3P7	.9840	H90	.9767	H252	.9700
R1P8	1.0019	R3P8	.9717	L90	.9747	L252	.9746
R1P9	1.0054	R3P9	.9723	U90	.9694	U252	.9705
		R3P10	.9752	E90	.9656	E252	.9679
		R3P11	.9857	144 DEG MAKE	324 DEG MAKE		
		R3P12	.9960	A144	.9776	A324	.9661
		R3P13	1.0057	H144	.9750	H324	.9755
		R3P14	1.0052	U144	.9667	U324	.9723
		R3P15	1.0055	C144	.9636	C324	.9710
		R3P16	1.0060	E144	.9605	E324	.9700

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/RC=	2.2426	STAT XCW/RC=	1.5380	SPIKE		COWL	
S9	.9154	S20	.8154	XCW/RC	P/PO	XCW/RC	P/PO
R2P1	.9519	K4P1	.9902	S1	.0960	S14	.0340
R2P2	.9974	K4P2	.9995	S2	.0476	S15	.1860
R2P3	.9946	K4P3	.9997	S11	.0476	S16	.4150
R2P4	.9786	K4P4	1.0007	S12	.0476	S17	.8470
R2P5	.9567	K4P5	1.0012	S13	.0476	S18	1.1740
		K4P6	1.0018	S3	.9156	S19	1.4590
		K4P7	1.0030	S4	1.1816	S20	1.5400
		K4P8	1.0038	S5	1.4176	S21	1.8270
		K4P9	1.0045	S6	1.6646	S22	2.7640
		K4P10	1.0049	S7	1.7426	S23	3.2980
		K4P11	1.0047	S8	1.9246	S26	5.2890
		K4P12	1.0018	S9	2.2876		
				S10	2.6236		
				S27	5.3000		
				S28	1.4176		

SPIKE R6		COWL R5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.9436	S23	.9436
R6P1	.9579	R5P1	.9446
R6P2	.9652	R5P2	.9499
R6P3	.9571	R5P3	.9508
R6P4	.9582	R5P4	.9508
R6P5	.9608	R5P5	.9520
R6P8	.9692	R5P6	.9518
R6P9	.9738	R5P7	.9527
R6P10	.9731	R5P8	.9545
R6P11	.9801	R5P9	.9672
		R5P10	.9742
		R5P11	.9942

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	64	FLIGHT DATE	09/13/79	SPIKE POS. DX/RC	.0829	AMBIENT TEMP	300.0 DEG K	MAX=MIN DIST	.0249
START	3:56:45.001	FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9190 ATMUS	K=CIRCUMF.	.6721
STOP	3:57:14.999	INTERVAL	1.000	ENG. FACE RECUV	.9657	ENGINE M/M*	.8800	K=RAJIAL	.0491
		ENG CUK MPH	4003.	ENG. FACE MACH NU	.2160	COWL M/M*	.3659	K-DELTA	.0191
				COWL LIP RECUV	.9788	ADDITIVE M/M*	.5142	K-A	.0682
				MACH AT COWL LIP	.1188				

SPIKE R1		COWL K3		STAT XLW/RC= 5.4830					
STAT	XLW/RC= .8481	STAT	XLW/RC= .0700	30	DEG	RAKE	198	DEG	RAKE
S2	.9708	S14	.9677	A30	.9580	A198	.9743		
R1P1	.9985	R3P1	.9671	H30	.9699	H198	.9737		
R1P2	1.0011	R3P2	.9672	C30	.9726	C198	.9758		
R1P3	1.0016	R3P3	.9673	D30	.9685	D198	.9605		
R1P4	1.0014	R3P4	.9673	E30	.9658	E198	.9551		
R1P5	1.0015	R3P5	.9675	90	DEG	RAKE	252	DEG	RAKE
R1P6	1.0012	R3P6	.9675	A90	.9664	A252	.9608		
R1P7	1.0014	R3P7	.9666	H90	.9721	H252	.9640		
R1P8	1.0012	R3P8	.9668	C90	.9684	C252	.9664		
R1P9	.9997	R3P9	.9668	D90	.9635	D252	.9659		
		R3P10	.9688	F90	.9595	F252	.9670		
		R3P11	.9792	104	DEG	RAKE	324	DEG	RAKE
		R3P12	.9406	A104	.9738	A324	.9629		
		R3P13	1.0047	H104	.9751	H324	.9703		
		R3P14	1.0047	D104	.9605	D324	.9677		
		R3P15	1.0050	C104	.9561	C324	.9625		
		R3P16	1.0057	E104	.9518	E324	.9607		

SPIKE R2		COWL K4		STATIC PRESSURES					
STAT	XLW/RC= 2.2431	STAT	XLW/RC= 1.5380		SPINE		COWL		
S9	.9021	S20	.7893	TAP	XLW/RC	P/PO	TAP	XLW/RC	P/PO
R2P1	.9471	R4P1	.9666	S1	.8491	.9696	S14	.0340	.9677
R2P2	.9893	R4P2	.9974	S2	.8481	.9708	S15	.1860	.9628
R2P3	.9932	R4P3	.9983	S11	.8481	.9675	S16	.4150	.9637
R2P4	.9717	R4P4	.9995	S12	.8481	.9680	S17	.8470	.9753
R2P5	.9533	R4P5	1.0007	S13	.8481	.9695	S18	1.1740	.9562
		R4P6	1.0014	S3	.9161	.9683	S19	1.4590	.9063
		R4P7	1.0025	S4	1.1821	.9409	S20	1.5400	.7893
		R4P8	1.0030	S5	1.4161	.8925	S21	1.8270	.8757
		R4P9	1.0038	S6	1.8651	.8717	S22	2.7840	.9146
		R4P10	1.0043	S7	1.7931	.8760	S23	3.2980	.9338
		R4P11	1.0045	S8	1.9251	.8779	S26	5.2890	.9332
		R4P12	1.0008	S9	2.2881	.9021			
				S10	2.6241	.9173			
				S27	5.3000	.9357			
				S28	1.4181	.9830			

SPIKE R6		COWL K5	
STAT	XLW/RC= 3.5040	STAT	XLW/RC= 3.3270
S23	.9338	S23	.9338
R6P1	.9472	R6P1	.9415
R6P2	.9545	R6P2	.9400
R6P3	.9502	R6P3	.9420
R6P4	.9517	R6P4	.9417
R6P5	.9534	R6P5	.9424
R6P8	.9617	R6P6	.9434
R6P9	.9652	R6P7	.9452
R6P10	.9644	R6P8	.9447
R6P11	.9771	R6P9	.9606
		R6P10	.9726
		R6P11	.9427

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	05	FLIGHT DATE	09/13/79	SPIKE POS. OX/KC	.0030	AMBIENT TEMP	300.0 DEG K	MAX-MIN DIST	.0313
START	3:58:57.000	FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9191 ATMOS	K-CIRCUMF.	.6372
STOP	3:59:26.997	INTERVAL	1.000	ENG. FACE MECOV	.9587	ENGINE M/M*	.9004	K-RADIAL	.0592
		ENG CLK RPM	4234.	ENG. FACE MACH NU	.2366	COWL M/M*	.4105	K-DELTA	.0243
				COWL LIP MECOV	.9745	ADDITIVE M/M*	.4900	K-A	.0835
				MACH AT COWL LIP	.1342				

SPIKE R1		COWL R3		STAT XCW/MC= 5.4830	
STAT XCW/MC=	.8480	STAT XCW/MC=	.0700	30 DEG MAKE	198 DEG MAKE
S2	.9637	S14	.9610	A36	.9496
R1P1	.9983	R3P1	.9609	R36	.9633
R1P2	1.0009	R3P2	.9608	C36	.9644
R1P3	1.0014	R3P3	.9607	D36	.9607
R1P4	1.0014	R3P4	.9609	E36	.9581
R1P5	1.0014	R3P5	.9604	90 DEG MAKE	252 DEG MAKE
R1P6	1.0014	R3P6	.9601	A90	.9601
R1P7	1.0016	R3P7	.9837	B90	.9679
R1P8	1.0012	R3P8	.9601	C90	.9601
R1P9	.9994	R3P9	.9610	D90	.9563
		R3P10	.9654	E90	.9585
		R3P11	.9786	144 DEG MAKE	324 DEG MAKE
		R3P12	.9917	A144	.9682
		R3P13	1.0048	B144	.9709
		R3P14	1.0048	D144	.9535
		R3P15	1.0046	C144	.9483
		R3P16	1.0051	E144	.9430

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/MC=	2.2430	STAT XCW/MC=	1.5380	SPIKE		COWL	
S9	.8826	S20	.7458	XLW/MC	P/PU	TAP	XCW/MC
R2P1	.9353	R4P1	.9830	S1	.9636	S14	.0340
R2P2	.9877	R4P2	.9900	S2	.9637	S15	.1860
R2P3	.9916	R4P3	.9971	S11	.9616	S16	.4150
R2P4	.9663	R4P4	.9976	S12	.9621	S17	.8470
R2P5	.9395	R4P5	.9990	S13	.9645	S18	1.1740
		R4P6	.9997	S3	.9629	S19	1.4590
		R4P7	1.0014	S4	1.1820	S20	1.5400
		R4P8	1.0020	S5	1.4180	S21	1.8270
		R4P9	1.0031	S6	1.0650	S22	2.7840
		R4P10	1.0040	S7	1.7930	S23	3.2980
		R4P11	1.0039	S8	1.9250	S26	5.2890
		R4P12	1.0003	S9	2.2880		.9610
				S10	2.6240		.9569
				S27	3.3000		.9574
				S28	1.4180		.9717
							.9479
							.8888
							.7458
							.8515
							.8977
							.9201
							.9207

SPIKE R6		COWL R5	
STAT XCW/MC=	3.5640	STAT XCW/MC=	3.3270
S23	.9201	S23	.9201
R6P1	.9357	R5P1	.9282
R6P2	.9433	R5P2	.9283
R6P3	.9412	R5P3	.9292
R6P4	.9417	R5P4	.9291
R6P5	.9454	R5P5	.9296
R6P8	.9527	R5P6	.9302
R6P9	.9576	R5P7	.9322
R6P10	.9636	R5P8	.9370
R6P11	.9708	R5P9	.9513
		R5P10	.9671
		R5P11	.9873

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	66	FLIGHT DATE	09/13/79	SPIKE POS. DX/MC	.0829	AMBIENT TEMP	300.0 DEG K	MAX-MIN DIST	.0329
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9193 ATMUS	K=CIRCUMF.	.6210
START	4: 0145.000	INTERVAL	1.000	ENG. FALLE RECUV	.9514	ENGINE M/M*	.9137	K=RADIAL	.0578
STOP	4: 1115.000	ENG. CUR MPH	4393.	ENG. FALLE MACH NO	.2503	COWL M/M*	.4288	K=DELTA	.0360
				COWL LIP RECUV	.9709	ADDITIVE M/M*	.4849	K=A	.0938
				MACH AT COWL LIP	.1408				

SPIKE R1		COWL K3		STAT XCM/MC= 5.4830		
STAT XCM/MC=	.8481	STAT XCM/MC=	.0700	36 DEG RAKE	198 DEG RAKE	
S2	.9590	S14	.9500	A36	.9434 A198	.9545
R1P1	.9979	R3P1	.9559	H36	.9577 H198	.9548
R1P2	1.0000	R3P2	.9555	C36	.9564 L198	.9651
R1P3	1.0013	R3P3	.9557	D36	.9545 U198	.9484
R1P4	1.0012	R3P4	.9559	E36	.9494 E198	.9373
R1P5	1.0013	R3P5	.9561	90 DEG RAKE	252 DEG RAKE	
R1P6	1.0013	R3P6	.9560	A90	.9535 A252	.9409
R1P7	1.0015	R3P7	.9800	H90	.9621 H252	.9502
R1P8	1.0010	R3P8	.9553	C90	.9547 C252	.9494
R1P9	.9993	R3P9	.9554	D90	.9511 D252	.9513
		R3P10	.9601	E90	.9434 E252	.9462
		R3P11	.9758	144 DEG RAKE	324 DEG RAKE	
		R3P12	.9843	A144	.9644 A324	.9454
		R3P13	1.0045	H144	.9648 H324	.9602
		R3P14	1.0044	D144	.9468 D324	.9541
		R3P15	1.0052	C144	.9403 C324	.9480
		R3P16	1.0051	E144	.9338 E324	.9420

SPIKE R2		COWL K4		STATIC PRESSURES					
STAT XCM/MC=	2.2431	STAT XCM/MC=	1.5380	SPIKE		COWL			
S9	.8653	S20	.7136	XCM/MC	P/PO	IAP	P/PO		
R2P1	.9265	K4P1	.9821	S1	.8941	.9541	S14	.0340	.9560
R2P2	.9857	K4P2	.9951	S2	.8481	.9590	S15	.1860	.9512
R2P3	.9902	K4P3	.9957	S11	.8481	.9573	S16	.4150	.9523
R2P4	.9601	K4P4	.9967	S12	.8481	.9574	S17	.8470	.9688
R2P5	.9273	K4P5	.9981	S13	.8481	.9605	S18	1.1740	.9427
		K4P6	.9945	S3	.9101	.9586	S19	1.4590	.8742
		K4P7	1.0008	S4	1.1421	.9217	S20	1.5400	.7136
		K4P8	1.0023	S5	1.4181	.8588	S21	1.8270	.8287
		K4P9	1.0031	S6	1.8051	.8222	S22	2.7840	.8839
		K4P10	1.0038	S7	1.7431	.8278	S23	3.2980	.9072
		K4P11	1.0043	S8	1.9251	.8327	S26	5.2690	.9086
		K4P12	.9948	S9	2.2881	.8653			

SPIKE R6		COWL K5	
STAT XCM/MC=	3.5080	STAT XCM/MC=	3.5270
S23	.9072	S23	.9072
R6P1	.9276	K5P1	.9158
R6P2	.9355	K5P2	.9165
R6P3	.9311	K5P3	.9177
R6P4	.9324	K5P4	.9181
R6P5	.9339	K5P5	.9177
R6P6	.9401	K5P6	.9190
R6P9	.9519	K5P7	.9188
R6P10	.9576	K5P8	.9201
R6P11	.9691	K5P9	.9374
		K5P10	.9565
		K5P11	.9440

YF-12 INLET NOISE SUPPRESSION STUDY
 RUN 69 FLIGHT DATE 09/13/79 SPIKE POS. DX/MC .0827 AMBIENT TEMP 301.1 DEG K MAX-MIN DIST .0522
 START 4: 8135.001 FLIGHT NO. 0 BYPASS POS. CLOSED AMBIENT PRESS .9190 ATMUS K-CINCUMF. .5217
 STOP 4: 9: 4.998 ENG COX RPM 5004. ENG. FACE RECUV .9215 ENGINE M/M* .9664 K-RADIAL .1002
 ENG. FACE MACH NO .3075 COWL M/M* .4947 K-DELTA .0361
 COWL LIP RECUV .9574 ADDITIVE M/M* .4717 K-A .1363
 MACH AT COWL LIP .1655

SPIKE R1 COWL K3 STAT XCW/MC= 5.4830
 STAT XCW/RC= .8483 STAT XCW/MC= .0700 30 DEG RAKE 198 DEG RAKE
 S2 .9419 S14 .9367 A36 .9155 A198 .9317
 R1P1 .9956 R3P1 .9363 R36 .9352 B198 .9303
 R1P2 .9999 R3P2 .9357 C36 .9244 C198 .9371
 R1P3 1.0007 R3P3 .9357 D36 .9239 D198 .9129
 R1P4 1.0008 R3P4 .9361 E36 .9180 E198 .8963
 R1P5 1.0010 R3P5 .9363 90 DEG RAKE 252 DEG RAKE
 R1P6 1.0006 R3P6 .9364 A90 .9280 A252 .9169
 R1P7 1.0009 R3P7 .9730 B90 .9405 B252 .9215
 R1P8 1.0005 R3P8 .9366 C90 .9353 C252 .9214
 R1P9 .9972 R3P9 .9373 D90 .9215 D252 .9191
 R3P10 .9407 E90 .9082 E252 .9120
 R3P11 .9561 144 DEG RAKE 324 DEG RAKE
 R3P12 .9770 A144 .9458 A324 .9163
 R3P13 1.0040 B144 .9373 B324 .9334
 R3P14 1.0042 D144 .9079 D324 .9255
 R3P15 1.0047 C144 .9018 C324 .9167
 R3P16 1.0050 E144 .8957 E324 .9097

SPIKE R2 COWL K4 STAT XLM/MC= 1.5380 STATIC PRESSURES
 STAT XCW/RC= 2.2433 STAT XLM/MC= 1.5380 SPIKE XLM/MC P/PO TAP COWL XLM/MC P/PO
 S9 .7962 S20 .5500 S1 .8443 .9427 S14 .0340 .9367
 R2P1 .8811 R4P1 .9642 S2 .8443 .9419 S15 .1860 .9314
 R2P2 .9788 R4P2 .9906 S11 .8483 .9401 S16 .4150 .9327
 R2P3 .9786 R4P3 .9919 S12 .8483 .9357 S17 .8470 .9551
 R2P4 .9293 R4P4 .9432 S13 .8483 .9439 S18 1.1740 .9176
 R2P5 .8800 R4P5 .9449 S3 .9163 .9419 S19 1.4590 .8137
 R4P6 .9484 S4 1.1823 .8903 S20 1.5400 .5500
 R4P7 .9448 S5 1.4183 .7923 S21 1.8270 .7313
 R4P8 1.0015 R4P8 .9988 S6 1.6853 .7223 S22 2.7840 .8215
 R4P9 1.0028 S7 1.7433 .7336 S23 3.2480 .8556
 R4P10 1.0028 S8 1.9253 .7411 S26 5.2890 .8600
 R4P11 1.0028 S9 2.2883 .7962
 R4P12 .9988 S10 2.6243 .8266
 S11 3.3000 .8645
 S12 1.4183 .9687

SPIKE R6 COWL K5
 STAT XCW/RC= 3.5040 STAT XLM/MC= 3.3270
 S23 .8556 S23 .8556
 R6P1 .8841 R5P1 .8654
 R6P2 .8976 R5P2 .8659
 R6P3 .8906 R5P3 .8674
 R6P4 .8939 R5P4 .8671
 R6P5 .8963 R5P5 .8692
 R6P8 .9164 R5P6 .8676
 R6P9 .9251 R5P7 .8700
 R6P10 .9368 R5P8 .8803
 R6P11 .9524 R5P9 .9013
 R5P10 .9243
 R5P11 .9641

*ESTIMATED

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	70	FLIGHT DATE	09/13/79	SPIKE POS.	UX/RC	.4577	AMBIENT TEMP	305.0 DEG K	MAX=MIN DIST	.0592
		FLIGHT NO.	0	HYPASS POS.	CLOSED		AMBIENT PRESS	.9194 ATMUS	K=CIRCUMF.	.7720
START	5:14117.002	INTERVAL	1.000	ENG. FACE RECOV		.9813	ENGINE M/M*	.6035	K=RADIAL	.0565
STOP	5:14146.998	ENG COK RPM	3759.	ENG. FACE MACH NU		.1879	COWL M/M*	.2990	K=DELTA	.0736
				COWL LIP RECOV		.9736	ADDITIVE M/M*	.3045	K=A	.1301
				MACH AT COWL LIP		.1405				

SPIKE R1		COWL R3		STAT XLW/RCE 5.4830	
STAT	XCW/RCE .4733	STAT	XCW/RCE .0700	36 DEG	RAKE 198 DEG
S2	.9593	S14	.9613	A36	A198
K1P1	1.0027	K3P1	.9603	H36	H198
K1P2	1.0025	K3P2	.9602	C36	C198
K1P3	1.0029	K3P3	.9602	D36	D198
K1P4	1.0029	K3P4	.9600	E36	E198
K1P5	1.0031	K3P5	.9600	90 DEG	RAKE 252 DEG
K1P6	.9565	K3P6	.9735	A90	A252
K1P7	1.0030	K3P7	.9925	H90	H252
K1P8	1.0029	K3P8	.9604	C90	C252
K1P9	.9990	K3P9	.9644	D90	D252
		K3P10	.9784	E90	E252
		K3P11	1.0004	144 DEG	RAKE 324 DEG
		K3P12	1.0041	A144	A324
		K3P13	1.0097	H144	H324
		K3P14	1.0097	D144	D324
		K3P15	1.0096	C144	C324
		K3P16	1.0096	E144	E324

SPIKE R2		COWL R4		STATIC PRESSURES					
STAT	XCW/RCE 1.4683	STAT	XCW/RCE 1.5380	SPIKE	XLW/RCE	P/P0	TAP	COWL	P/P0
S9	.9440	S20	.9104	S1	.3243	.9585	S14	.0340	.9613
K2P1	.9732	K4P1	.9920	S2	.4733	.9543	S15	.1660	.9536
K2P2	.9848	K4P2	.9980	S11	.4733	.9574	S16	.4150	.9598
K2P3	.9956	K4P3	.9998	S12	.4733	.9588	S17	.8470	.9674
K2P4	.9943	K4P4	1.0003	S13	.4733	.9612	S18	1.1740	.9594
K2P5	.9786	K4P5	1.0009	S3	.5413	.9635	S19	1.4590	.9530
		K4P6	1.0011	S4	.6073	.9564	S20	1.5400	.9104
		K4P7	1.0011	S5	1.0433	.9526	S21	1.8270	.9425
		K4P8	1.0020	S6	1.2903	.9530	S22	2.7840	.9515
		K4P9	1.0028	S7	1.4183	.9507	S23	3.2980	.9634
		K4P10	1.0030	S8	1.5503	.9448	S26	5.2890	.9562
		K4P11	1.0034	S9	1.9133	.9440			
		K4P12	1.0045	S10	2.2493	.9499			

SPIKE R6		COWL R5	
STAT	XCW/RCE 3.5040	STAT	XCW/RCE 3.3270
S23	.9634	S23	.9634
K6P1	.9747	K5P1	.9730
K6P2	.9785	K5P2	.9731
K6P3	.9780	K5P3	.9741
K6P4	.9786	K5P4	.9741
K6P5	.9821	K5P5	.9745
K6P8	.9824	K5P6	.9763
K6P9	.9846	K5P7	.9789
K6P10	.9851	K5P8	.9834
K6P11	.9869	K5P9	.9834
		K5P10	.9850
		K5P11	.9880

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	71	FLIGHT DATE	09/13/79	SPIKE POS. DX/KC	.4577	AMBIENT TEMP	306.7 DEG K	MAX-MIN DIST	.0181
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9203 ATMUS	K=CIRCUMF.	.0368
START	5:17:7.000	INTERVAL	1.000	ENG. FACE RECOV	.9743	ENGINE M/M*	.6287	K=RADIAL	.0448
STOP	5:17:37.000	ENG COM RPM	4172.	ENG. FACE MACH NO	.2269	COWL M/M*	.3683	K=DELTA	.0050
				COWL LIP RECOV	.9054	ADDITIVE M/M*	.2604	K=A	.0498
				MACH AT COWL LIP	.1757				

SPIKE R1		COWL K3		STAT XCM/RC = 5.4830			
STAT XCM/RC =	.4733	STAT XCM/RC =	.0700	36 DEG RAKE	198 DEG RAKE		
S2	.9468	S14	.9428	A36	.9700	A198	.9745
R1P1	1.0032	R3P1	.9416	M36	.9774	M198	.9787
R1P2	1.0095	R3P2	.9416	C36	.9804	C198	.9813
R1P3	1.0085	R3P3	.9413	D36	.9793	D198	.9715
R1P4	1.0063	R3P4	.9415	E36	.9756	E198	.9602
R1P5	1.0023	R3P5	.9415	90 DEG RAKE	252 DEG RAKE		
R1P6	1.0044	R3P6	.9415	A90	.9736	A252	.9714
R1P7	1.0053	R3P7	.9444	M90	.9783	M252	.9766
R1P8	1.0050	R3P8	.9416	C90	.9752	C252	.9807
R1P9	.9960	R3P9	.9457	D90	.9721	D252	.9755
		R3P10	.9617	E90	.9681	E252	.9731
		R3P11	.9922	144 DEG RAKE	324 DEG RAKE		
		R3P12	1.0000	A144	.9776	A324	.9711
		R3P13	1.0083	M144	.9814	M324	.9769
		R3P14	1.0081	D144	.9740	D324	.9749
		R3P15	1.0083	C144	.9888	C324	.9766
		R3P16	1.0085	E144	.9637	E324	.9707

SPIKE K2		COWL K4		STATIC PRESSURES			
STAT XCM/RC =	1.0683	STAT XCM/RC =	1.5340	SPIKE		COWL	
S9	.9212	S20	.8726	XCM/RC	P/PO	TAP	XCM/RC
R2P1	.9585	R4P1	.9842	S1	.9243	S14	.0340
R2P2	.9773	R4P2	.9939	S2	.4733	S15	.1860
R2P3	.9948	R4P3	.9952	S11	.4733	S16	.4150
R2P4	.9897	R4P4	.9959	S12	.4733	S17	.8470
R2P5	.9690	R4P5	.9963	S13	.4733	S18	1.1740
		R4P6	.9968	S3	.5413	S19	1.4590
		R4P7	.9977	S4	.8073	S20	1.5400
		R4P8	.9984	S5	1.0433	S21	1.8270
		R4P9	.9988	S6	1.2243	S22	2.7840
		R4P10	.9994	S7	1.4183	S23	3.2980
		R4P11	1.0005	S8	1.5503	S26	5.2890
		R4P12	1.0006	S9	1.9133		
				S10	2.2493		
				S27	5.3000		
				S28	1.0433		

SPIKE K6		COWL K5	
STAT XCM/RC =	3.5040	STAT XCM/RC =	3.3270
S23	.9455	S23	.9455
R6P1	.9614	R5P1	.9588
R6P2	.9683	R5P2	.9588
R6P3	.9689	R5P3	.9600
R6P4	.9669	R5P4	.9605
R6P5	.9672	R5P5	.9615
R6P8	.9722	R5P6	.9627
R6P9	.9749	R5P7	.9667
R6P10	.9812	R5P8	.9738
R6P11	.9816	R5P9	.9827
		R5P10	.9925
		R5P11	.9931

YF-12 INLET NOISE SUPPRESSION STUDY
 RUN 72 FLIGHT DATE 09/13/79 SPIKE POS. OX/RIC .4577 AMBIENT TEMP 306.7 DEG K
 FLIGHT NO. 0 BYPASS POS. CLOSED AMBIENT PRESS .9195 ATMOS
 START 5:19:00.007 INTERVAL 1.000 ENG. FACE RECUV .9651 ENGINE M/M* .8656
 STOP 5:19:29.998 ENG LOP RPM 4641. ENG. FACE MACH NO .2044 COWL M/M* .4201
 COWL LIP RECUV .9504 ADDITIVE M/M* .2455
 MACH AT COWL LIP .2044
 MAX-MIN DIST .0331
 K-CIRCUMF. .5716
 K-RADIAL .0539
 K-DELTA .0225
 K-A .0761

SPIKE R1		COWL R3		STAT XCW/RIC= 5.4850			
STAT	XCW/RIC= .4733	STAT	XCW/RIC= .0700	30 DEG MAKE	198 DEG MAKE		
S2	.9240	S14	.9220	A30	.9599	A198	.9600
R1P1	1.0020	R3P1	.9206	H30	.9703	H198	.9686
R1P2	1.0019	R3P2	.9204	C30	.9732	C198	.9736
R1P3	1.0029	R3P3	.9201	D30	.9700	D198	.9637
R1P4	1.0029	R3P4	.9201	E30	.9651	E198	.9505
R1P5	1.0023	R3P5	.9194	90 DEG MAKE		252 DEG MAKE	
R1P6	1.0029	R3P6	.9202	A90	.9647	A252	.9619
R1P7	1.0029	R3P7	.9832	H90	.9731	H252	.9682
R1P8	1.0025	R3P8	.9203	C90	.9725	C252	.9658
R1P9	.9948	R3P9	.9258	D90	.9650	D252	.9631
		R3P10	.9451	E90	.9587	E252	.9538
		R3P11	.9860	144 DEG MAKE		324 DEG MAKE	
		R3P12	.9982	A144	.9699	A324	.9615
		R3P13	1.0091	H144	.9800	H324	.9684
		R3P14	1.0047	D144	.9659	D324	.9682
		R3P15	1.0043	C144	.9570	C324	.9602
		R3P16	1.0047	E144	.9480	E324	.9601

SPIKE R2		COWL R4		STATIC PRESSURES						
STAT	XCW/RIC= 1.8683	STAT	XCW/RIC= 1.5380	SPIKE	XCW/RIC	P/PO	IAP	COWL	XCW/RIC	P/PO
S9	.8908	S20	.8266	S1	.5243	.9228	S14	.0340	.9220	
R2P1	.9461	R4P1	.9782	S2	.4733	.9240	S15	.1860	.9144	
R2P2	.9718	R4P2	.9906	S11	.4733	.9214	S16	.4150	.9253	
R2P3	.9884	R4P3	.9920	S12	.4733	.9247	S17	.8470	.9384	
R2P4	.9859	R4P4	.9935	S13	.4733	.9282	S18	1.1740	.9230	
R2P5	.9567	R4P5	.9943	S3	.5413	.9307	S19	1.4590	.9108	
		R4P6	.9946	S4	.6073	.9182	S20	1.5400	.8266	
		R4P7	.9960	S5	1.0433	.9102	S21	1.8270	.8887	
		R4P8	.9961	S6	1.2903	.9112	S22	2.7840	.9078	
		R4P9	.9968	S7	1.4183	.9064	S23	3.2980	.9235	
		R4P10	.9968	S8	1.5503	.8945	S26	5.2890	.9170	
		R4P11	.9989	S9	1.9133	.8908				
		R4P12	.9997	S10	2.2493	.9046				

SPIKE R6		COWL R5	
STAT	XCW/RIC= 3.5040	STAT	XCW/RIC= 3.3270
S23	.9235	S23	.9235
R6P1	.9460	R5P1	.9400
R6P2	.9591	R5P2	.9408
R6P3	.9554	R5P3	.9429
R6P4	.9548	R5P4	.9439
R6P5	.9561	R5P5	.9448
R6P8	.9641	R5P6	.9466
R6P9	.9673	R5P7	.9515
R6P10	.9705	R5P8	.9635
R6P11	.9743	R5P9	.9763
		R5P10	.9871
		R5P11	.9909

WF-12 INLET NOISE SUPPRESSION STUDY

RUN 73
 START 512125.000 INTERVAL 1.000
 STOP 512155.000 ENG CUR KPM 5080
 FLIGHT DATE 09/13/79
 FLIGHT NO. 0
 BYPASS POS. CLOSURE AMBIENT PRESS 9190 ATMOS
 K-CIRCUMF. 3106
 K-RADIAL .0718
 K-DELTA .0296
 MAX-MIN DIST .0427

AMBIENT TEMP .4577
 AMBIENT PRESS CLOSURE
 ENG FARE KCOV .9530
 ENG FARE MACH NO .3088
 CUML LIP KCOV .9349
 MACH AT CUML LIP .2396
 ADDITIVE M/M* .4788
 306.7 DEG K 9190 ATMOS
 .4999
 .2211

SPIKE R1 STAI XCM/HCE .4733

CUML R3 STAI XCM/HCE .0700

30 DEG MAKE

30 DEG MAKE

30 DEG MAKE

30 DEG MAKE

30 DEG MAKE

30 DEG MAKE

30 DEG MAKE

30 DEG MAKE

30 DEG MAKE

30 DEG MAKE

30 DEG MAKE

30 DEG MAKE

30 DEG MAKE

30 DEG MAKE

30 DEG MAKE

30 DEG MAKE

30 DEG MAKE

30 DEG MAKE

30 DEG MAKE

30 DEG MAKE

30 DEG MAKE

30 DEG MAKE

30 DEG MAKE

30 DEG MAKE

30 DEG MAKE

SPIKE R2 STAI XCM/HCE 1.0083

CUML R4 STAI XCM/HCE 1.5380

SPINE

XLM/HCE P/PU

SPINE

XLM/HCE P/PU

SPINE

XLM/HCE P/PU

SPINE

XLM/HCE P/PU

SPINE

XLM/HCE P/PU

SPINE

XLM/HCE P/PU

SPINE

XLM/HCE P/PU

SPINE

XLM/HCE P/PU

SPINE

SPIKE R6 STAI XCM/HCE 3.5040

CUML R5 STAI XCM/HCE 3.3270

SPINE

XLM/HCE P/PU

SPINE

XLM/HCE P/PU

SPINE

XLM/HCE P/PU

SPINE

XLM/HCE P/PU

SPINE

XLM/HCE P/PU

CUML P/PO
 XCM/HCE .0340
 .8961
 .8873
 .1860
 .9017
 .4150
 .8470
 .9105
 .8979
 1.1740
 1.4590
 .8807
 1.4590
 1.5400
 .7640
 .8524
 1.8270
 .8766
 2.7840
 3.2980
 .8946
 5.2890
 .8898

TAP
 S1
 .5245
 .8944
 S14
 .4755
 .9005
 S15
 .4755
 .8944
 S16
 .4755
 .8944
 S17
 .4755
 .8944
 S18
 .4755
 .8944
 S19
 .4755
 .8944
 S20
 .4755
 .8944
 S21
 .4755
 .8944
 S22
 .4755
 .8944
 S23
 .4755
 .8944
 S24
 .4755
 .8944
 S25
 .4755
 .8944
 S26
 .4755
 .8944
 S27
 .4755
 .8944
 S28
 .4755
 .8944
 S29
 .4755
 .8944
 S30
 .4755
 .8944
 S31
 .4755
 .8944
 S32
 .4755
 .8944
 S33
 .4755
 .8944
 S34
 .4755
 .8944
 S35
 .4755
 .8944
 S36
 .4755
 .8944
 S37
 .4755
 .8944
 S38
 .4755
 .8944
 S39
 .4755
 .8944
 S40
 .4755
 .8944
 S41
 .4755
 .8944
 S42
 .4755
 .8944
 S43
 .4755
 .8944
 S44
 .4755
 .8944
 S45
 .4755
 .8944
 S46
 .4755
 .8944
 S47
 .4755
 .8944
 S48
 .4755
 .8944
 S49
 .4755
 .8944
 S50
 .4755
 .8944
 S51
 .4755
 .8944
 S52
 .4755
 .8944
 S53
 .4755
 .8944
 S54
 .4755
 .8944
 S55
 .4755
 .8944
 S56
 .4755
 .8944
 S57
 .4755
 .8944
 S58
 .4755
 .8944
 S59
 .4755
 .8944
 S60
 .4755
 .8944
 S61
 .4755
 .8944
 S62
 .4755
 .8944
 S63
 .4755
 .8944
 S64
 .4755
 .8944
 S65
 .4755
 .8944
 S66
 .4755
 .8944
 S67
 .4755
 .8944
 S68
 .4755
 .8944
 S69
 .4755
 .8944
 S70
 .4755
 .8944
 S71
 .4755
 .8944
 S72
 .4755
 .8944
 S73
 .4755
 .8944
 S74
 .4755
 .8944
 S75
 .4755
 .8944
 S76
 .4755
 .8944
 S77
 .4755
 .8944
 S78
 .4755
 .8944
 S79
 .4755
 .8944
 S80
 .4755
 .8944
 S81
 .4755
 .8944
 S82
 .4755
 .8944
 S83
 .4755
 .8944
 S84
 .4755
 .8944
 S85
 .4755
 .8944
 S86
 .4755
 .8944
 S87
 .4755
 .8944
 S88
 .4755
 .8944
 S89
 .4755
 .8944
 S90
 .4755
 .8944
 S91
 .4755
 .8944
 S92
 .4755
 .8944
 S93
 .4755
 .8944
 S94
 .4755
 .8944
 S95
 .4755
 .8944
 S96
 .4755
 .8944
 S97
 .4755
 .8944
 S98
 .4755
 .8944
 S99
 .4755
 .8944
 S100
 .4755
 .8944

CUML R5

SPINE

XLM/HCE P/PU

SPINE

XLM/HCE P/PU

SPINE

XLM/HCE P/PU

SPINE

XLM/HCE P/PU

SPINE

XLM/HCE P/PU

VF-12 INFLT NOISE SUPPRESSION STUDY

RUN 74
 START 5:24:35.002 INTERNAL 1.000
 STOP 5:25:15.000 ENG CLK RPM 5600
 FLIGHT NO. 0
 HYPASS POS.
 CLOSED AMBIENT PRES9
 307.2 DEG K
 9211 ATMOS
 K-CIRCUMF. .4833
 K-RADIAL .0776
 K-DELTA .0285
 K-A .1061

SPIKE R1
 STAI XCM/RCE .4749

CUML H3
 STAI XCM/RCE .0700

SPIKE R2
 STAI XCM/RCE 1.8699

CUML H4
 STAI XCM/RCE 1.5360

SPIKE R3
 STAI XCM/RCE 3.5040

CUML H5
 STAI XCM/RCE 3.3270

SPIKE
 XCM/ML P/PU LAP
 XCM/ML P/PU LAP

STATIC PRESSURES
 P/PU LAP
 XCM/ML P/PU LAP

S2	.8890
R1P1	.9990
R1P2	.9921
R1P3	1.0008
R1P4	1.0005
R1P5	1.0008
R1P6	1.0008
R1P7	1.0008
R1P8	1.0006
R1P9	.9931
S20	.7350
S21	.9610
S22	.9793
S23	.9259
S24	.8883
S25	.8896
S26	.8867
S27	.8880
S28	.8844
S29	.8844
S30	.8813
S31	.8813
S32	.8813
S33	.8813
S34	.8813
S35	.8813
S36	.8813
S37	.8813
S38	.8813
S39	.8813
S40	.8813
S41	.8813
S42	.8813
S43	.8813
S44	.8813
S45	.8813
S46	.8813
S47	.8813
S48	.8813
S49	.8813
S50	.8813
S51	.8813
S52	.8813
S53	.8813
S54	.8813
S55	.8813
S56	.8813
S57	.8813
S58	.8813
S59	.8813
S60	.8813
S61	.8813
S62	.8813
S63	.8813
S64	.8813
S65	.8813
S66	.8813
S67	.8813
S68	.8813
S69	.8813
S70	.8813
S71	.8813
S72	.8813
S73	.8813
S74	.8813
S75	.8813
S76	.8813
S77	.8813
S78	.8813
S79	.8813
S80	.8813
S81	.8813
S82	.8813
S83	.8813
S84	.8813
S85	.8813
S86	.8813
S87	.8813
S88	.8813
S89	.8813
S90	.8813
S91	.8813
S92	.8813
S93	.8813
S94	.8813
S95	.8813
S96	.8813
S97	.8813
S98	.8813
S99	.8813
S00	.8813

SPIKE
 XCM/ML P/PU LAP
 XCM/ML P/PU LAP

STATIC PRESSURES
 P/PU LAP
 XCM/ML P/PU LAP

S2	.8890
R1P1	.9990
R1P2	.9921
R1P3	1.0008
R1P4	1.0005
R1P5	1.0008
R1P6	1.0008
R1P7	1.0008
R1P8	1.0006
R1P9	.9931
S20	.7350
S21	.9610
S22	.9793
S23	.9259
S24	.8883
S25	.8896
S26	.8867
S27	.8880
S28	.8844
S29	.8844
S30	.8813
S31	.8813
S32	.8813
S33	.8813
S34	.8813
S35	.8813
S36	.8813
S37	.8813
S38	.8813
S39	.8813
S40	.8813
S41	.8813
S42	.8813
S43	.8813
S44	.8813
S45	.8813
S46	.8813
S47	.8813
S48	.8813
S49	.8813
S50	.8813
S51	.8813
S52	.8813
S53	.8813
S54	.8813
S55	.8813
S56	.8813
S57	.8813
S58	.8813
S59	.8813
S60	.8813
S61	.8813
S62	.8813
S63	.8813
S64	.8813
S65	.8813
S66	.8813
S67	.8813
S68	.8813
S69	.8813
S70	.8813
S71	.8813
S72	.8813
S73	.8813
S74	.8813
S75	.8813
S76	.8813
S77	.8813
S78	.8813
S79	.8813
S80	.8813
S81	.8813
S82	.8813
S83	.8813
S84	.8813
S85	.8813
S86	.8813
S87	.8813
S88	.8813
S89	.8813
S90	.8813
S91	.8813
S92	.8813
S93	.8813
S94	.8813
S95	.8813
S96	.8813
S97	.8813
S98	.8813
S99	.8813
S00	.8813

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	76	FLIGHT DATE	09/13/79	SPIKE POS. OX/RC	.4558	AMBIENT TEMP	306.1 DEG K	MAX-MIN DIST	.0558
START	5:34:45.003	FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9210 ATMOS	K-CIRCUMF.	.4273
STOP	5:35:15.000	INTERVAL	1.000	ENG. FACE REC'D	.9379	ENGINE M/M*	.7444	K-RADIAL	.0762
		ENG LUM RPM	5571.	ENG. FACE MACH NO	.3535	COWL M/M*	.5288	K-DELTA	.0204
				COWL LIP REC'D	.9162	ADDITIVE M/M*	.2156	K-A	.0966
				MACH AT COWL LIP	.2728				

SPIKE R1		COWL K3		STAT XCW/RC= 5.4830			
STAT XCW/RC=	.4752	STAT XCW/RC=	.0700	36 DEG MAKE	198 DEG MAKE		
S2	.8735	S14	.8000	A36	.9250	A198	.9299
R1P1	.9967	K3P1	.8049	B36	.9482	B198	.9454
R1P2	.9986	R3P2	.8047	C36	.9547	C198	.9516
R1P3	1.0004	K3P3	.8041	D36	.9485	D198	.9412
R1P4	1.0001	K3P4	.8042	E36	.9544	E198	.9254
R1P5	1.0004	K3P5	.8042	90 DEG MAKE 252 DEG MAKE			
R1P6	1.0006	R3P6	.8044	A90	.9584	A252	.9357
R1P7	1.0006	R3P7	.9046	B90	.9510	B252	.9440
R1P8	.9978	K3P8	.8050	C90	.9450	C252	.9426
R1P9	.9933	R3P9	.8810	U90	.9548	U252	.9349
		K3P10	.9263	E90	.9220	E252	.9182
		K3P11	.9905	144 DEG MAKE 324 DEG MAKE			
		K3P12	.9947	A144	.9521	A324	.9306
		R3P13	1.0070	H144	.9031	H324	.9406
		K3P14	1.0069	D144	.9313	D324	.9437
		K3P15	1.0070	C144	.9210	C324	.9308
		K3P16	1.0079	E144	.9108	E324	.9260

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/RC=	1.8702	STAT XCW/RC=	1.5380	SPIKE		COWL	
S9	.8100	S20	.6943	XCW/RL	P/PU	IAP	XCW/RL P/PU
R2P1	.8975	K4P1	.9525	S1	.8721	S14	.0340 .8666
R2P2	.9455	K4P2	.9733	S2	.8752	S15	.1860 .8578
R2P3	.9795	K4P3	.9762	S11	.8752	S16	.4150 .8747
R2P4	.9733	K4P4	.9780	S12	.8752	S17	.8470 .8951
R2P5	.9152	K4P5	.9796	S13	.8752	S18	1.1740 .8673
		K4P6	.9800	S3	.8432	S19	1.4590 .8446
		K4P7	.9830	S4	.8042	S20	1.5400 .6943
		K4P8	.9852	S5	1.0452	S21	1.8270 .8048
		K4P9	.9870	S6	1.2422	S22	2.7840 .8384
		K4P10	.9900	S7	1.4202	S23	3.2980 .8623
		K4P11	.9922	S8	1.5522	S20	5.2890 .8560
		K4P12	.9957	S9	1.9152		
				S10	2.2512		
				S27	5.3000		
				S28	1.0452		

SPIKE R6		COWL K5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.8623	S23	.8623
K6P1	.9032	K5P1	.8890
R6P2	.9198	K5P2	.8921
K6P3	.9162	K5P3	.8926
K6P4	.9193	K5P4	.8930
K6P5	.9218	K5P5	.8901
K6P6	.9337	K5P6	.8942
K6P9	.9401	K5P7	.9063
K6P10	.9452	K5P8	.9220
K6P11	.9519	K5P9	.9409
		K5P10	.9642
		K5P11	.9788

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	77	FLIGHT DATE 09/13/79	SPIKE POS. DX/RC	.4558	AMBIENT TEMP	307.8 DEG K	MAX-MIN DIST	.0520
		FLIGHT NO.	0	HYPASS POS.	CLOSED	AMBIENT PRESS	K=CIRCUMF.	.4184
START	5:37:10.001	INTERVAL	1.000	ENG. FALC RECOV	.9362	ENGINE M/M*	K=RADIAL	.0766
STOP	5:37:39.998	ENG CUR RPM	5660.	ENG. FALC MACH NO	.3627	COWL M/M*		
				COWL LIP RECOV	.9120	ADDITIVE M/M*	K=DELTA	.0223
				MACH AT COWL LIP	.2784		K=A	.0984

SPIKE R1		COWL R3		STAT XCW/RCE = 5.4830	
STAT XCW/RCE	.4752	STAT XCW/RCE	.0700	36 DEG HAKE	198 DEG HAKE
S2	.8692	S14	.8591	A36	.9279 A198
R1P1	.9997	R3P1	.8587	B36	.9481 H198
R1P2	.9998	R3P2	.8588	C36	.9490 C198
R1P3	1.0013	R3P3	.8588	D36	.9415 D198
R1P4	1.0010	R3P4	.8588	E36	.9352 E198
R1P5	1.0014	R3P5	.8584	90 DEG HAKE	252 DEG HAKE
R1P6	.9993	R3P6	.8584	A90	.9370 A252
R1P7	1.0014	R3P7	.9683	B90	.9533 B252
R1P8	1.0014	R3P8	.8601	C90	.9448 C252
R1P9	.9921	R3P9	.8725	D90	.9315 D252
		R3P10	.9073	E90	.9200 E252
		R3F11	.9686	144 DEG HAKE	324 DEG HAKE
		R3P12	.9918	A144	.9494 A324
		R3P13	1.0076	B144	.9524 B324
		R3P14	1.0076	D144	.9292 D324
		R3P15	1.0077	C144	.9202 U324
		R3P16	1.0081	E144	.9112 E324

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/RCE	1.8702	STAT XCW/RCE	1.5380	SPIKE		COWL	
S9	.8015	S20	.6777	XCW/RCE	P/PO	IAP	P/PO
R2P1	.8984	R4P1	.9491	S1	.3262	S14	.0340
R2P2	.9435	R4P2	.9697	S2	.4752	S15	.1860
R2P3	.9728	R4P3	.9746	S11	.4752	S16	.4150
R2P4	.9677	R4P4	.9764	S12	.4752	S17	.8470
R2P5	.9113	R4P5	.9773	S13	.4752	S18	1.1740
		R4P6	.9747	S3	.5432	S19	1.4590
		R4P7	.9827	S4	.8042	S20	1.5400
		R4P8	.9847	S5	1.0452	S21	1.8270
		R4P9	.9866	S6	1.2422	S22	2.7840
		R4P10	.9867	S7	1.4202	S23	3.2980
		R4P11	.9910	S8	1.5522	S26	5.2890
		R4P12	.9939	S9	1.9152		
				S10	2.2512		
				S27	3.3000		
				S28	1.0452		

SPIKE R6		COWL R5	
STAT XCW/RCE	3.5040	STAT XCW/RCE	3.3270
S23	.8565	S23	.8565
R6P1	.9008	R5P1	.8852
R6P2	.9154	R5P2	.8866
R6P3	.9124	R5P3	.8879
R6P4	.9154	R5P4	.8898
R6P5	.9189	R5P5	.8926
R6P6	.9302	R5P6	.8939
R6P9	.9374	R5P7	.8998
R6P10	.9422	R5P8	.9144
R6P11	.9505	R5P9	.9423
		R5P10	.9651
		R5P11	.9772

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	79	FLIGHT DATE	09/13/79	SPIKE POS. DX/NC	.4558	AMBIENT TEMP	307.8 DEG K	MAX-MIN DIST	.0663
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9199 ATMOS	K-CIRCUMF.	.3739
START	5:41:18.001	INTERVAL	1.000	ENG. FUEL REC'D	.9290	ENGINE M/M*	.7747	K-RADIAL	.0830
STOP	5:41:48.000	ENG COM RPM	5658.	ENG. FUEL MACH NO	.3827	COM'L M/M*	.5727	K-DELTA	.0086
				COM'L LIP REC'D	.9084	ADDITIVE M/M*	.2020	K-A	.0917
				MACH AT COM'L LIP	.3008				

SPIKE R1		COWL K3		STAT ALW/NC= 5.4830			
STAT XCW/RC=	.4752	STAT XCW/RC=	.0700	36 DEG RAKE	198 DEG RAKE		
S2	.8592	S14	.8471	A36	.9160	A198	.9163
R1P1	1.0018	R3P1	.8464	B36	.9414	B198	.9337
R1P2	1.0022	R3P2	.8458	C36	.9488	C198	.9567
R1P3	1.0032	R3P3	.8452	D36	.9422	D198	.9329
R1P4	1.0012	R3P4	.8450	E36	.9303	E198	.9149
R1P5	1.0020	K3P5	.8446	90 DEG RAKE	252 DEG RAKE		
R1P6	1.0022	K3P6	.8445	A90	.9228	A252	.9279
R1P7	1.0010	R3P7	.9657	H90	.9344	H252	.9390
R1P8	1.0029	K3P8	.8497	C90	.9437	C252	.9365
R1P9	.9966	K3P9	.8781	D90	.9280	D252	.9266
		K3P10	.9422	E90	.9161	E252	.9063
		K3P11	.9984	144 DEG RAKE	324 DEG RAKE		
		K3P12	.9951	A144	.9442	A324	.9231
		K3P13	1.0079	B144	.9540	B324	.9392
		K3P14	1.0080	D144	.9196	D324	.9341
		K3P15	1.0079	C144	.9074	C324	.9212
		K3P16	1.0085	E144	.8952	E324	.9134

SPIKE R2		COWL K4		STATIC PRESSURES					
STAT XCW/RC=	1.4702	STAT XCW/RC=	1.5380	SPIKE		COWL			
S9	.7774	S20	.6418	XCW/RC	P/PO	TAP	XCW/RC	P/PO	
R2P1	.8812	R4P1	.9487	S1	.8262	.8565	S14	.0340	.8471
R2P2	.9378	R4P2	.9717	S2	.8752	.8592	S15	.1860	.8377
R2P3	.9784	R4P3	.9759	S11	.4752	.8566	S16	.4150	.8606
R2P4	.9720	R4P4	.9788	S12	.4752	.8556	S17	.8470	.8812
R2P5	.9045	R4P5	.9805	S13	.4752	.8621	S18	1.1740	.8483
		R4P6	.9817	S3	.5432	.8733	S19	1.4590	.8220
		R4P7	.9831	S4	.8092	.8457	S20	1.5400	.6418
		R4P8	.9844	S5	1.0452	.8252	S21	1.8270	.7732
		R4P9	.9863	S6	1.2422	.8240	S22	2.7840	.8137
		R4P10	.9886	S7	1.4202	.8121	S23	3.2980	.8400
		R4P11	.9902	S8	1.5522	.7812	S26	5.2890	.8355
		R4P12	.9918	S9	1.9152	.7774			
				S10	2.2512	.8033			
				S27	5.3000	.8428			
				S28	1.0452	.9607			

SPIKE R6		COWL K5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.8400	S23	.8400
R6P1	.8887	K5P1	.8709
R6P2	.9068	K5P2	.8722
R6P3	.9046	K5P3	.8746
R6P4	.9078	K5P4	.8765
R6P5	.9091	K5P5	.8792
R6P8	.9232	K5P6	.8830
R6P9	.9303	K5P7	.8848
R6P10	.9357	K5P8	.9117
R6P11	.9434	K5P9	.9394
		K5P10	.9624
		K5P11	.9769

YF-12 INLET NOISE SUPPRESSION STUDY
 RUN 80 FLIGHT DATE 09/13/79 SPIKE POS. DX/KC .4556 AMBIENT TEMP 308.3 DEG K
 FLIGHT NO. 0 HYPASS POS. CLOSED AMBIENT PRESS .9201 ATMUS
 START 5:42:50.000 INTERVAL 1.000 ENG. FACE RECUV .9278 ENGINE M/M* .7971
 STOP 5:43:19.999 ENG LUK RPM 6002. ENG. FACE MACH NU .3661 COWL M/M* .5702
 COWL LIP RECUV .9071 ADDITIVE M/M* .2269
 MACH AT COWL LIP .2498
 K-DELTA .0241
 K-CIRCUMF. .3664
 K-RADIAL .0793
 K-A .1034

STAT SPIKE R1 XCW/RC# .4752 STAT COWL K3 XCW/RC# .0700 STAT XCW/RC# 5.4830
 S2 .8572 S14 .8472 36 DEG KAKE 198 DEG KAKE
 R1P1 .9991 R3P1 .8451 A36 .9150 A198 .9186
 R1P2 .9992 R3P2 .8454 B36 .9406 B198 .9343
 R1P3 1.0010 R3P3 .8449 C36 .9498 C198 .9524
 R1P4 1.0005 R3P4 .8447 D36 .9417 D198 .9306
 R1P5 1.0006 R3P5 .8447 E36 .9290 E198 .9109
 R1P6 1.0011 R3P6 .8447 90 DEG KAKE 252 DEG KAKE
 R1P7 1.0013 R3P7 .9646 A90 .9305 A252 .9219
 R1P8 1.0010 R3P8 .8491 M90 .9491 M252 .9337
 R1P9 .9954 R3P9 .8753 C90 .9416 C252 .9294
 R3P10 .9379 D90 .9267 D252 .9264
 R3P11 .9986 E90 .9156 E252 .9028
 R3P12 .9944 144 DEG KAKE 324 DEG KAKE
 R3P13 1.0079 A144 .9395 A324 .9208
 R3P14 1.0078 M144 .9542 M324 .9408
 R3P15 1.0076 D144 .9186 D324 .9315
 R3P16 1.0081 E144 .9076 E324 .9101
 .8465 .9115

STAT SPIKE K2 XCW/RC# 1.0702 STAT COWL K4 XCW/RC# 1.5380 STATIC PRESSURES
 S9 .7720 S20 .6333 SPIKE XCW/RC P/PO TAP COWL XCW/RC P/PO
 R2P1 .8812 R4P1 .9473 S1 .5262 .8548 S14 .0340 .8472
 R2P2 .9425 R4P2 .9699 S2 .4752 .8572 S15 .1860 .8374
 R2P3 .9795 R4P3 .9740 S11 .4752 .8536 S16 .4150 .8588
 R2P4 .9696 R4P4 .9761 S12 .4752 .8562 S17 .8470 .8787
 R2P5 .8994 R4P5 .9791 S13 .4752 .8628 S18 1.1740 .8459
 R4P6 .9400 S3 .5432 .8714 S19 1.4590 .8189
 R4P7 .9422 S4 .8042 .8451 S20 1.5400 .6333
 R4P8 .9642 S5 1.0452 .8222 S21 1.8270 .7685
 R4P9 .9468 S6 1.2422 .8201 S22 2.7840 .8084
 R4P10 .9906 S7 1.4202 .8082 S23 3.2980 .8370
 R4P11 .9927 S8 1.5522 .7766 S26 5.2890 .8327
 R4P12 .9952 S9 1.9152 .7720
 S10 2.2912 .8014
 S27 5.3000 .8404
 S28 1.0452 .9599

STAT SPIKE R6 XCW/RC# 3.5040 STAT COWL K5 XCW/RC# 3.3270
 S23 .8370 S23 .8370
 R6P1 .8857 R5P1 .8681
 R6P2 .9033 R5P2 .8698
 R6P3 .9008 R5P3 .8725
 R6P4 .9036 R5P4 .8734
 R6P5 .9066 R5P5 .8771
 R6P8 .9167 R5P6 .8811
 R6P9 .9262 R5P7 .8866
 R6P10 .9326 R5P8 .9090
 R6P11 .9406 R5P9 .9403
 R5P10 .9671
 R5P11 .9797

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	81	FLIGHT DATE	09/13/79	SPIKE POS. DX/KC	.4558	AMBIENT TEMP	308.3 DEG K	MAX-MIN DIST	.0775
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9207 ATMOS	K=CIRCUMF.	.5231
START	5145132.001	INTERVAL	1.000	ENG. FACE RECOV	.9201	ENGINE M/M*	.8223	K=RADIAL	.0877
STOP	514611.999	ENG COM RPM	6165.	ENG. FACE MACH NO	.4086	COML M/M*	.5850		
				COML LIP RECOV	.8474	ADDITIVE M/M*	.2373	K-DELTA	.0096
				MACH AT COML LIP	.3122			K-A	.0973

SPIKE R1		COML K3		STAT XLM/KC= 5.4830			
STAT XCM/KC=	.4752	STAT XLM/KC=	.0700	36 DEG	KAKE	198 DEG	KAKE
S2	.8453	S14	.8332	A36	.4042	A198	.9129
K1P1	.9988	K3P1	.8325	M36	.4336	B198	.9349
K1P2	.9986	K3P2	.8318	C36	.4424	C198	.9531
K1P3	1.0005	K3P3	.8323	D36	.4365	D198	.9220
R1P4	1.0000	K3P4	.8317	E36	.4218	E198	.8985
R1P5	1.0005	K3P5	.8317	90 DEG KAKE		252 DEG KAKE	
K1P6	1.0006	K3P6	.8319	A90	.4094	A252	.9181
K1P7	1.0004	K3P7	.9615	M90	.4334	B252	.9334
K1P8	1.0002	K3P8	.8351	C90	.4305	C252	.9274
K1P9	.9928	K3P9	.8580	D90	.4146	D252	.9175
		K3P10	.9203	E90	.4014	E252	.8961
		K3P11	.9440	144 DEG KAKE		324 DEG KAKE	
		K3P12	.9940	A144	.4375	A324	.9119
		K3P13	1.0070	B144	.4467	B324	.9337
		K3P14	1.0070	D144	.4086	C324	.9261
		K3P15	1.0072	C144	.8452	D324	.9117
		K3P16	1.0076	E144	.8618	E324	.9022

SPIKE R2		COML K4		STATIC PRESSURES			
STAT XCM/KC=	1.8702	STAT XLM/KC=	1.5380	SPIKE		COML	
S9	.7525	S20	.6064	TAP	XLM/KC	P/PU	IAP
R2P1	.8716	K4P1	.9405	S1	.3262	.8428	S14
R2P2	.9363	K4P2	.9662	S2	.4752	.8453	S15
R2P3	.9763	K4P3	.4707	S11	.4752	.8430	S16
R2P4	.9667	K4P4	.9726	S12	.4752	.8439	S17
R2P5	.8904	K4P5	.4744	S13	.4752	.8484	S18
		K4P6	.4754	S3	.3432	.8607	S19
		K4P7	.4802	S4	.8042	.8310	S20
		K4P8	.4818	S5	1.0452	.8061	S21
		K4P9	.4846	S6	1.2422	.8058	S22
		K4P10	.4872	S7	1.4202	.7923	S23
		K4P11	.4849	S8	1.5522	.7556	S26
		K4P12	.4929	S9	1.4152	.7525	
				S10	2.2512	.7836	
				S27	5.3000	.8260	
				S28	1.0452	.4563	

SPIKE R6		COML K5	
STAT XCM/KC=	3.5040	STAT XLM/KC=	3.3270
S23	.8211	S23	.8211
K6P1	.8745	K5P1	.8557
K6P2	.8950	K5P2	.8572
K6P3	.8916	K5P3	.8591
K6P4	.8951	K5P4	.8596
K6P5	.8971	K5P5	.8637
K6P8	.9152	K5P6	.8663
K6P9	.9230	K5P7	.8724
K6P10	.9293	K5P8	.8971
K6P11	.9389	K5P9	.4244
		K5P10	.4576
		K5P11	.4744

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	82	FLIGHT DATE	09/13/79	SPIKE POS. DX/KC	.4558	AMBIENT TEMP	308.9 DEG K	MAX=MIN DIST	.0868
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9207 ATMUS	K=CIRCUMF.	.3229
START	5:47:20.003	INTERVAL	1.000	ENG. FACE RECOV	.9190	ENGINE M/M*	.8284	K=RADIAL	.0945
STOP	5:47:49.999	ENG CLK RPM	6202.	ENG. FACE MACH NO	.4110	COWL M/M*	.5830		
				COWL LIP RECOV	.8470	ADDITIVE M/M*	.2455	K=DELTA	.0154
				MACH AT COWL LIP	.3113			K=A	.1099

SPIKE R1		COWL K3		STAT XCM/KC= 5.4830	
STAT XCM/KC=	.4752	STAT XCM/KC=	.0700	36 DEG MAKE	198 DEG MAKE
S2	.8467	S14	.8307	A36	.9000 A198
R1P1	.9957	K3P1	.8296	B36	.9320 B198
R1P2	.9967	K3P2	.8296	C36	.9421 C198
R1P3	1.0001	K3P3	.8293	D36	.9342 D198
R1P4	.9958	K3P4	.8291	E36	.9205 E198
R1P5	1.0002	K3P5	.8290	90 DEG MAKE	252 DEG MAKE
R1P6	.9997	K3P6	.8287	A90	.9174 A252
R1P7	.9942	K3P7	.9572	H90	.9395 H252
R1P8	.9949	K3P8	.8311	C90	.9343 C252
R1P9	.9878	K3P9	.8538	D90	.9115 D252
		K3P10	.9183	E90	.8962 E252
		K3P11	.9952	144 DEG MAKE	324 DEG MAKE
		K3P12	.9440	A144	.9325 A324
		K3P13	1.0072	B144	.9470 B324
		K3P14	1.0070	D144	.9057 D324
		K3P15	1.0073	C144	.8907 C324
		K3P16	1.0070	E144	.8750 E324

SPIKE R2		COWL M4		STATIC PRESSURES			
STAT XCM/KC=	1.8702	STAT XCM/KC=	1.5380	SPIKE		COWL	
S9	.7459	S20	.60*	XCM/KL	P/PO	TAP	XCM/KL
R2P1	.8690	K4P1	.9372	S1	.3202	S14	.0340
R2P2	.9321	K4P2	.9651	S2	.4752	S15	.1860
R2P3	.9771	K4P3	.9691	S11	.4752	S16	.4150
R2P4	.9639	K4P4	.9727	S12	.4752	S17	.8470
R2P5	.8918	K4P5	.9744	S13	.4752	S18	1.1740
		K4P6	.9766	S3	.5432	S19	1.4590
		K4P7	.9800	S4	.8092	S20	1.5400
		K4P8	.9818	S5	1.0452	S21	1.8270
		K4P9	.9838	S6	1.2422	S22	2.7840
		K4P10	.9875	S7	1.4202	S23	3.2980
		K4P11	.9911	S8	1.5522	S26	5.2890
		K4P12	.9929	S9	1.9152		
				S10	2.2512		
				S27	5.3000		
				S28	1.0452		

SPIKE R6		COWL M5	
STAT XCM/KC=	3.5040	STAT XCM/KC=	3.3270
S23	.8101	S23	.8101
K6P1	.8768	K5P1	.8507
K6P2	.8930	K5P2	.8520
K6P3	.8889	K5P3	.8558
K6P4	.8980	K5P4	.8574
K6P5	.8439	K5P5	.8605
K6P8	.9104	K5P6	.8626
K6P9	.9202	K5P7	.8704
K6P10	.9210	K5P8	.8940
K6P11	.9331	K5P9	.9274
		K5P10	.9581
		K5P11	.9729

*Estimated

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	B3	FLIGHT DATE	09/13/79	SPIKE POS. DX/MC	.4558	AMBIENT TEMP	309.4 DEG K	MAX-MIN DIST	.0855
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	1.9204 ATMOS	K=CIRCUMF.	.3653
START	5:49:10.000	INTERVAL	1.000	ENG. FACE RECOV	.9144	ENGINE M/M*	.8431	K=RADIAL	.0632
STOP	5:49:39.999	ENG CUR RPM	6282.	ENG. FACE MACH NO	.4164	COWL M/M*	.5952		
				COWL LIP RECOV	.8432	ADDITIVE M/M*	.2478	K=DELTA	.0130
				MACH AT COWL LIP	.3202			K=A	.0962

SPIKE M1		COWL M3		STAT XLW/MC= 5.4850	
STAT	XCW/RC= .4752	STAT	XCW/RC= .0700	36 DEG	HAKE
S2	.8386	S14	.8252	A36	.8492 A198 .9040
R1P1	.9910	R3P1	.8239	H36	.9305 B198 .9343
R1P2	.9895	R3P2	.8234	C36	.9408 C198 .9544
R1P3	.9778	R3P3	.8232	D36	.9313 D198 .9181
R1P4	.9889	R3P4	.8231	E36	.9180 E198 .8848
R1P5	.9871	R3P5	.8231	90 DEG	HAKE
R1P6	.9570	R3P6	.8228	A90	.9107 A252 .9113
R1P7	1.0011	R3P7	.9628	B90	.9314 B252 .9140
R1P8	.9880	R3P8	.8248	C90	.9267 C252 .9162
R1P9	.9846	R3P9	.8676	D90	.9085 D252 .9042
		R3P10	.9455	E90	.8457 E252 .8854
		R3P11	1.0003	144 DEG	HAKE
		R3P12	.9940	A144	.9326 A324 .9072
		R3P13	1.0077	H144	.9416 B324 .9309
		R3P14	1.0080	D144	.9004 C324 .9238
		R3P15	1.0075	C144	.8883 D324 .9052
		R3P16	1.0060	E144	.8761 E324 .8966

SPIKE M2		COWL M4		STATIC PRESSURES			
STAT	XCW/RC= 1.8702	STAT	XCW/RC= 1.5380	SPIKE		COWL	
S9	.7349	S20	.59*	XCW/RC	P/PU	TAP	XCW/RC
R2P1	.8603	R4P1	.9382	S1	.3202	S14	.0340
R2P2	.9311	R4P2	.9609	S2	.4752	S15	.1860
R2P3	.9681	R4P3	.9703	S11	.4752	S16	.4150
R2P4	.9702	R4P4	.9732	S12	.4752	S17	.8470
R2P5	.8799	R4P5	.9752	S13	.4752	S18	1.1740
		R4P6	.9762	S3	.5432	S19	1.4590
		R4P7	.9785	S4	.8042	S20	1.5400
		R4P8	.9808	S5	1.0452	S21	1.8270
		R4P9	.9843	S6	1.2422	S22	2.7840
		R4P10	.9861	S7	1.4202	S23	3.2980
		R4P11	.9901	S8	1.5522	S26	5.2890
		R4P12	.9938	S9	1.9152		
				S10	2.2512		
				S27	5.3000		
				S28	1.0452		

SPIKE M6		COWL M5	
STAT	XCW/RC= 3.5040	STAT	XLW/MC= 3.3270
S23	.8077	S23	.8077
R6P1	.8704	R5P1	.8427
R6P2	.8895	R5P2	.8400
R6P3	.8869	R5P3	.8489
R6P4	.8893	R5P4	.8504
R6P5	.8896	R5P5	.8547
R6P8	.9069	R5P6	.8579
R6P9	.9158	R5P7	.8642
R6P10	.9201	R5P8	.8911
R6P11	.9244	R5P9	.9224
		R5P10	.9537
		R5P11	.9710

* Estimated

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	84	FLIGHT DATE	09/13/79	SPIRE POS.	DX/KC	.4558	AMBIENT TEMP	309.4 DEG K	MAX-MIN DIST	.0632
		FLIGHT NU.	0	BYPASS POS.	CLOSED		AMBIENT PRESS	.9205 ATMOS	K-CIRCUMF.	.3050
START	5:50:55.002	INTERVAL	1.000	ENG. FACE RECOV		.9126	ENGINE M/M*	.8622	K-RADIAL	.0787
STOP	5:51:24.999	ENG COX RPM	6363.	ENG. FACE MACH NO		.4290	COWL M/M*	.6321	K-DELTA	.0284
				COWL LIP RECOV		.8967	ADDITIVE M/M*	.2301	K-A	.1071
				MACH AT COWL LIP		.3415				

SPIRE R1		COWL K3		STAT XCW/KC= 5.4850			
STAT	XCW/KC= .4752	STAT	XCW/KC= .0700	36 DEG	KAKE	198 DEG	KAKE
S2	.8343	S14	.8201	A36	.8960	A198	.9011
R1P1	.9983	R3P1	.8187	H36	.9307	H198	.9313
R1P2	.9922	R3P2	.8184	C36	.9400	C198	.9508
R1P3	1.0005	R3P3	.8185	D36	.9312	D198	.9200
R1P4	1.0211	R3P4	.8478	E36	.9101	E198	.8906
R1P5	1.0007	R3P5	.8183	90 DEG	KAKE	252 DEG	KAKE
R1P6	1.0008	R3P6	.8175	A90	.9106	A252	.9076
R1P7	1.0007	R3P7	.9576	H90	.9314	H252	.9170
R1P8	1.0003	R3P8	.8258	C90	.9248	C252	.9131
R1P9	.9878	R3P9	.8672	D90	.9088	D252	.9016
		R3P10	.9526	E90	.8930	E252	.8846
		R3P11	1.0027	144 DEG	KAKE	324 DEG	KAKE
		R3P12	.9430	A144	.9337	A324	.9020
		R3P13	1.0075	H144	.9407	H324	.9241
		R3P14	1.0071	D144	.9014	D324	.9193
		R3P15	1.0073	C144	.8881	C324	.9030
		R3P16	1.0077	E144	.8744	E324	.8923

SPIRE K2		COWL K4		STATIC PRESSURES					
STAT	XCW/KC= 1.8702	STAT	XCW/KC= 1.5380	SPIRE		COWL			
S9	.7265	S20	.578*	XCW/KL	P/PU	IAP	XCW/KC	P/PO	
K2P1	.8588	K4P1	.9355	TAP					
K2P2	.9352	K4P2	.9645	S1	.5202	.8305	S14	.0340	.8201
K2P3	.9668	K4P3	.9704	S2	.4752	.8343	S15	.1860	.8103
K2P4	.9647	K4P4	.9724	S11	.4752	.8301	S16	.4150	.8361
K2P5	.8750	K4P5	.9738	S12	.4752	.8333	S17	.8470	.8579
		K4P6	.9754	S13	.4752	.8378	S18	1.1740	.8169
		K4P7	.9785	S3	.5432	.8883	S19	1.4590	.7835
		K4P8	.9803	S4	.8042	.8170	S20	1.5400	.578*
		K4P9	.9828	S5	1.0452	.7901	S21	1.8270	.7169
		K4P10	.9854	S6	1.2422	.7867	S22	2.7840	.7711
		K4P11	.9846	S7	1.4202	.7712	S23	3.2980	.8013
		K4P12	.9917	S8	1.5522	.7272	S26	5.2890	.7989
				S9	1.9152	.7265			
				S10	2.2512	.7602			
				S27	5.3000	.8079			
				S28	1.0452	.9533			

SPIRE K6		COWL K5		
STAT	XCW/KC= 3.5040	STAT	XCW/KC= 3.3270	
S23	.8013	S23	.8013	
K6P1	.8602	K5P1	.8384	
K6P2	.8825	K5P2	.8409	
K6P3	.8770	K5P3	.8427	
K6P4	.8841	K5P4	.8438	
K6P5	.8868	K5P5	.8477	
K6P6	.9038	K5P6	.8536	
K6P9	.9115	K5P7	.8540	
K6P10	.9220	K5P8	.8808	
K6P11	.9322	K5P9	.9166	
		K5P10	.9542	
		K5P11	.9726	

* Estimated

VF-12 INLET NOISE SUPPRESSION STUDY
 RUN 85 FLIGHT DATE 09/13/79 SPIKE POS. DX/KC .4558 AMBIENT TEMP 308.9 DEG K MAX-MIN DIST .0930
 START 5:52150.000 FLIGHT NO. 0 BYPASS POS. CLOSED AMBIENT PRESS .9206 ATMOS K-CIRCUMF. .2764
 STOP 5:53119.999 INTENVAL 1.000 ENG. FACE MECOV .9865 ENGINE M/M* .8898 K-RADIAL .0785
 ENG. FACE MACH NO .4411 COWL M/M* .6134 K-DELTA .0230
 COWL LIP MECOV .8844 ADDITIVE M/M* .2764 K-A .1015
 MACH AT COWL LIP .3352

SPIKE #1		COWL #3		STAT XCW/MC# 5.4830	
STAT XCW/MC#	.4752	STAT XCW/MC#	.0700	30 DEG HAKE	198 DEG HAKE
S2	.8245	S14	.8120	A36	.8863 A198 .9004
R1P1	.9986	K3P1	.8111	H36	.9242 B198 .9302
R1P2	.9990	K3P2	.8108	C36	.9344 C198 .9450
R1P3	1.0005	K3P3	.8108	D36	.9250 D198 .9063
R1P4	.9996	K3P4	.8103	E36	.9084 E198 .8800
R1P5	1.0007	K3P5	.8106	90 DEG HAKE	252 DEG HAKE
R1P6	1.0008	K3P6	.8103	A90	.9058 A252 .9073
R1P7	1.0006	K3P7	.9591	H90	.9321 B252 .9179
R1P8	.9999	K3P8	.8130	C90	.9201 C252 .9126
R1P9	.9940	K3P9	.8342	D90	.8970 D252 .8993
		K3P10	.9192	E90	.8774 E252 .8769
		K3P11	.9992	144 DEG HAKE	324 DEG HAKE
		K3P12	.9921	A144	.9335 A324 .8969
		K3P13	1.0073	H144	.9386 B324 .9250
		K3P14	1.0074	D144	.8924 C324 .9126
		K3P15	1.0075	C144	.8765 D324 .8922
		K3P16	1.0076	E144	.8607 E324 .8823

SPIKE #2		COWL #4		STATIC PRESSURES				
STAT XCW/MC#	1.8702	STAT XCW/MC#	1.5340	SPIKE		COWL		
S9	.7051	S26	.5560*	ALW/MC	P/PU	TAP	XCW/MC	P/PU
R2P1	.8477	K4P1	.9309	S1	.3262	S14	.0340	.8120
R2P2	.9256	K4P2	.9610	S2	.4752	S15	.1800	.8026
R2P3	.9757	K4P3	.9655	S11	.4752	S16	.4150	.8264
R2P4	.9622	K4P4	.9663	S12	.4752	S17	.8470	.8509
R2P5	.8638	K4P5	.9713	S13	.4752	S18	1.1740	.8079
		K4P6	.9719	S3	.5432	S19	1.4590	.7721
		K4P7	.9753	S4	.8092	S20	1.5400	.5560*
		K4P8	.9780	S5	1.0452	S21	1.8270	.6985
		K4P9	.9814	S6	1.2922	S22	2.7840	.7576
		K4P10	.9852	S7	1.4202	S23	3.2980	.7893
		K4P11	.9883	S8	1.5522	S26	5.2890	.7871
		K4P12	.9915	S9	1.9152			
				S10	2.2512			
				S27	5.3000			
				S28	1.0452	.9509		

SPIKE #6		COWL #5		
STAT XCW/MC#	3.5040	STAT XCW/MC#	3.3270	
S23	.7893	S23	.7893	
K6P1	.8543	K5P1	.8272	
K6P2	.8762	K5P2	.8244	
K6P3	.8729	K5P3	.8326	
K6P4	.8769	K5P4	.8332	
K6P5	.8797	K5P5	.8375	* Estimated
K6P6	.8984	K5P6	.8341	
K6P9	.9087	K5P7	.8492	
K6P10	.9179	K5P8	.8735	
K6P11	.9299	K5P9	.9104	
		K5P10	.9480	
		K5P11	.9720	

YF-12 INLET NOISE SUPPRESSION STUDY

HUN	87	FLIGHT DATE	09/20/79	SPIKE POS.	DX/RC	.8582	AMBIENT TEMP	287.2 DEG K	MAX-MIN DIST	.0546
START	2142:10.000	FLIGHT NU.	0	HYPASS POS.	OPEN		AMBIENT PRESS	.9170 ATMOS	K=CIRCUMF.	.4837
STOP	2142:39.997	INTERVAL	1.000	ENG. FACE RECOV		.9411	ENGINE M/M*	.5643	K=RADIAL	.1533
		ENG LOH RPM	5012.	ENG. FACE MACH NO		.3254	COWL M/M*	.3379		
				COWL LIP RECOV		.9685	ADDITIVE M/M*	.2265	K=DELTA	.0175
				MACH AT COWL LIP		.2007			K=A	.1709

SPIKE R1		COWL N3		STAT XCW/KC# 5.4830			
STAT XCW/RC#	.0728	STAT XCW/KC#	.0700	36 DEG	RAKE	198 DEG	RAKE
S2	.9648	S14	.9186	A36	.9504	A198	.9538
R1P1	1.0007	R3P1	.9173	B36	.9377	B198	.9508
R1P2	1.0010	R3P2	.9169	C36	.9272	C198	.9530
R1P3	1.0012	R3P3	.9170	D36	.9177	D198	.9304
R1P4	.9999	R3P4	.9171	E36	.9114	E198	.9128
R1P5	1.0012	R3P5	.9168	90 DEG	RAKE	252 DEG	RAKE
R1P6	1.0012	R3P6	.9168	A90	.9628	A252	.9589
R1P7	1.0011	R3P7	.9639	B90	.9617	B252	.9470
R1P8	1.0009	R3P8	.9353	C90	.9532	C252	.9341
R1P9	1.0000	R3P9	.9725	D90	.9447	D252	.9310
		R3P10	.9977	E90	.9398	E252	.9246
		F3P11	1.0011	144 DEG	RAKE	324 DEG	RAKE
		R3P12	.9978	A144	.9545	A324	.9545
		R3P13	1.0018	B144	.9508	B324	.9560
		R3P14	1.0016	D144	.9364	C324	.9459
		R3P15	1.0018	C144	.9297	D324	.9393
		R3P16	1.0018	E144	.9230	E324	.9346

SPIKE R2		COWL N4		STATIC PRESSURES					
STAT XCW/RC#	1.4678	STAT XCW/KC#	1.5380	TAP	SPIKE	P/PO	TAP	COWL	P/PO
S9	.9440	S20	.9027	S1	.0762	.9898	S14	.0340	.9186
R2P1	.9505	R4P1	.9768	S2	.0728	.9648	S15	.1860	.9152
R2P2	.9562	R4P2	.9832	S11	.0728	.9651	S16	.4150	.9407
R2P3	.9694	R4P3	.9847	S12	.0728	.9649	S17	.8470	.9379
R2P4	.9837	R4P4	.9854	S13	.0728	.9657	S18	1.1740	.9425
R2P5	.9857	R4P5	.9859	S3	.1406	.9499	S19	1.4590	.9427
		R4P6	.9865	S4	.4066	.9243	S20	1.5400	.9027
		R4P7	.9864	S5	.6426	.9279	S21	1.8270	.9405
		R4P8	.9864	S6	.8696	.9286	S22	2.7840	.8510
		R4P9	.9865	S7	1.0176	.9316	S23	3.2980	.8706
		R4P10	.9865	S8	1.1496	.9372	S26	5.2890	.8709
		R4P11	.9854	S9	1.5126	.9440			
		R4P12	.9844	S10	1.8488	.9408			

SPIKE R6		COWL N5			
STAT XCW/RC#	3.5040	STAT XCW/KC#	3.3270	S27	.8765
S23	.8706	S23	.8706	S28	.6428
R6P1	.9362	H5P1	.9165		.9804
R6P2	.9543	H5P2	.9205		
R6P3	.9554	H5P3	.9245		
R6P4	.9611	H5P4	.9284		
R6P5	.9631	H5P5	.9316		
R6P8	.9639	H5P6	.9396		
R6P9	.9592	H5P7	.9575		
R6P10	.9530	H5P8	.9711		
R6P11	.9346	H5P9	.9699		
		H5P10	.9677		
		H5P11	.9659		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	HA	FLIGHT DATE 09/20/79	SPIKE POS. DX/RC .8582	AMBIENT TEMP	287.8 DEG K	MAX-MIN DIST	.0957
		FLIGHT NO. 0	BYPASS POS. OPEN	AMBIENT PRESS	.9166 ATMOS	K-CIRCUMF.	.5061
START	2:48:33.001	INTERVAL 1.000	ENG. FACE REC'DV .9062	ENGINE M/M*	.6864	K-RADIAL	.1657
STOP	2:49: 2.998	ENG CUR RPM 6124.	ENG. FACE MACH NO .4315	COWL M/M*	.4134		
			COWL LIP REC'DV .9516	ADDITIVE M/M*	.2730	K-DELTA	.0270
			MACH AT COWL LIP .2536			K-A	.1927

SPIKE R1		COWL M3		STAT XLM/HCE 5.4830			
STAT XCM/RC# .0728	STAT XCM/RC# .0700	36 DEG MAKE	198 DEG MAKE				
S2 .9454	S14 .8747	A36 .9230	A198 .9300				
R1P1 1.0000	R3P1 .8723	H36 .9067	H198 .9357				
R1P2 1.0005	R3P2 .8722	C36 .8848	C198 .9239				
R1P3 1.0006	R3P3 .8721	D36 .8703	D198 .8841				
R1P4 .9989	R3P4 .8720	E36 .8596	E198 .8572				
R1P5 1.0007	R3P5 .8720	90 DEG MAKE	252 DEG MAKE				
K1P6 1.0005	K3P6 .8724	A90 .9434	A252 .9301				
K1P7 1.0005	K3P7 .9745	H90 .9342	H252 .9106				
R1P8 1.0004	R3P8 .9160	C90 .9226	C252 .8971				
R1P9 .9985	R3P9 .9776	D90 .9113	D252 .8874				
	R3P10 .9946	E90 .9015	E252 .8783				
	R3P11 1.0009	144 DEG MAKE	324 DEG MAKE				
	R3P12 .9953	A144 .9341	A324 .9280				
	R3P13 1.0014	H144 .9280	H324 .9340				
	R3P14 1.0011	D144 .8926	D324 .9151				
	R3P15 1.0014	L144 .8876	L324 .9019				
	R3P16 1.0013	E144 .8825	E324 .8860				

SPIKE M2		COWL M4		STATIC PRESSURES			
STAT XCM/RC# 1.4678	STAT XCM/RC# 1.5386			SPIKE	COWL		
S9 .9118	S20 .8496	ALM/RC	P/PO	IAP	XCM/RC	P/PO	
M2P1 .9214	M4P1 .9631	S1	.8762	.9843	S14	.8340	.8747
M2P2 .9306	M4P2 .9737	S2	.8728	.9454	S15	.1860	.8709
M2P3 .9529	M4P3 .9755	S11	.8728	.9465	S16	.4150	.9106
M2P4 .9753	M4P4 .9771	S12	.8728	.9459	S17	.8470	.9045
M2P5 .9788	M4P5 .9780	S13	.8728	.9475	S18	1.1740	.9111
	M4P6 .9780	S3	.1406	.9231	S19	1.4590	.9117
	M4P7 .9789	S4	.4068	.8835	S20	1.5400	.8498
	M4P8 .9786	S5	.6428	.8874	S21	1.8270	.9076
	M4P9 .9789	S6	.8896	.8899	S22	2.7840	.7630
	M4P10 .9786	S7	1.0178	.8936	S23	3.2480	.7885
	M4P11 .9784	S8	1.1498	.9008	S26	5.2890	.7914
	M4P12 .9768	S9	1.5128	.9118			
		S10	1.8488	.9077			
		S27	5.3000	.8006			
		S28	.6428	.9700			

SPIKE M6		COWL M5	
STAT XCM/RC# 3.5640	STAT XCM/RC# 3.3270		
S23 .7885	S23 .7885		
M6P1 .8969	M5P1 .8628		
M6P2 .9259	M5P2 .8712		
M6P3 .9306	M5P3 .8759		
M6P4 .9380	M5P4 .8817		
M6P5 .9434	M5P5 .8874		
M6P8 .9462	M5P6 .9033		
M6P9 .9404	M5P7 .9330		
M6P10 .9303	M5P8 .9574		
M6P11 .9011	M5P9 .9554		
	M5P10 .9504		
	M5P11 .9483		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	89	FLIGHT DATE	09/20/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	288.9 DEG K	MAX-MIN DIST	.1039
		FLIGHT NO.	0	BYPASS POS. OPEN		AMBIENT PRESS	.9170 ATMOS	K-CIRCUMF.	.2808
START	2:51:40.000	INTERVAL	1.000	ENG. FACE REC'D	.8488	ENGINE M/M*	.7109	K-RADIAL	.1621
STOP	2:52:10.000	ENG LUM RPM	6298.	ENG. FACE MACH NO	.4511	COWL M/M*	.4233	K-DELTA	.0280
				COWL LIP REC'D	.9474	ADDITIVE M/M*	.2876	K-A	.1902
				MACH AT COWL LIP	.2614				

SPIKE R1		COWL K3		STAT XCW/KC= 5.4850	
STAT XCW/KC=	.0728	STAT XCW/KC=	.0700	36 DEG KAKE	198 DEG KAKE
S2	.9411	S14	.8658	A36	.9181 A198
R1P1	.9994	R3P1	.8637	H36	.8481 H198
R1P2	.9997	R3P2	.8635	C36	.8760 C198
R1P3	.9999	R3P3	.8636	D36	.8618 D198
R1P4	.9980	R3P4	.8634	E36	.8513 E198
R1P5	.9998	R3P5	.8633	90 DEG KAKE	252 DEG KAKE
R1P6	.9998	K3P6	.8633	A90	.9373 A252
R1P7	.9997	R3P7	.9723	H90	.9343 H252
R1P8	.9997	R3P8	.9045	C90	.9143 C252
R1P9	.9976	R3P9	.9715	D90	.9019 D252
		R3P10	.9488	E90	.8920 E252
		R3P11	1.0003	144 DEG KAKE	324 DEG KAKE
		R3P12	.9948	A144	.9290 A324
		R3P13	1.0009	B144	.9235 B324
		R3P14	1.0003	D144	.8854 D324
		R3P15	1.0008	C144	.8810 C324
		R3P16	1.0007	E144	.8767 E324

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/KC=	1.4678	STAT XCW/KC=	1.5380	SPIKE		COWL	
S9	.9050	S20	.8380	XCW/KC	P/PU	TAP	P/PO
R2P1	.9143	P4F1	.9604	TAP		S14	.0340
R2P2	.9238	P4P2	.9718	S1	.0762	S15	.1860
R2P3	.9472	R4P3	.9751	S2	.0726	S16	.4150
R2P4	.9734	R4P4	.9765	S11	.0726	S17	.8470
R2P5	.9768	R4P5	.9768	S12	.0726	S18	1.1740
		R4P6	.9769	S13	.0726	S19	1.4590
		R4P7	.9776	S3	.1406	S20	1.5400
		R4P8	.9771	S4	.4068	S21	1.8270
		R4P9	.9774	S5	.6428	S22	2.7840
		R4P10	.9767	S6	.8846	S23	3.2980
		R4P11	.9756	S7	1.0178	S26	5.2890
		R4P12	.9743	S8	1.1448		.7754
				S9	1.5128		
				S10	1.8488		

SPIKE R6		COWL K5	
STAT XCW/KC=	3.5040	STAT XCW/KC=	3.3270
S23	.7714	S23	.7714
R6P1	.8891	K5P1	.8519
R6P2	.9195	K5P2	.8588
R6P3	.9200	K5P3	.8639
R6P4	.9325	K5P4	.8721
R6P5	.9372	K5P5	.8801
R6P8	.9407	K5P6	.8918
R6P9	.9350	K5P7	.9242
R6P10	.9251	K5P8	.9523
R6P11	.8953	K5P9	.9506
		K5P10	.9449
		K5P11	.9446

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	90	FLIGHT DATE	09/20/79	SPIKE POS. DX/HZ	.8582	AMBIENT TEMP	287.8 DEG K	MAX=MIN DIST	.1066
		FLIGHT NO.	0	BYPASS POS. UPEN		AMBIENT PRESS	.9171 ATMUS	K=CIRCUMF.	.2572
START	2:55:40.001	INTERVAL	1.000	ENG. FALLE RECOV	.8936	ENGINE M/M*	.7344	K=RADIAL	.1592
STOP	2:56: 9.999	ENG COX RPM	6477.	ENG. FALLE MACH NU	.4697	CUWL M/M*	.4310	K=DELTA	.0262
				CUWL LIP RECOV	.9444	ADDITIVE M/M*	.3034	K=A	.1854
				MACH AT CUWL LIP	.2075				

SPIKE P1		CUWL K3		STAT XCM/HZ= 5.4830	
STAT XCM/RC=	.0728	STAT XCM/RC=	.0700	36 DEG	RAKE
S2	.9340	S14	.8591	A36	.4136
R1P1	.9990	R3P1	.8574	H36	.8446
R1P2	.9996	R3P2	.8573	C36	.8695
R1P3	.9997	R3P3	.8571	D36	.8535
R1P4	.9983	R3P4	.8571	E36	.8437
R1P5	.9998	R3P5	.8572	90 DEG	RAKE
R1P6	.9998	R3P6	.8569	A90	.9333
R1P7	.9998	R3P7	.4689	H90	.9291
R1P8	.9996	R3P8	.8957	C90	.9075
R1P9	.9976	R3P9	.9667	D90	.8462
		R3P10	.9982	E90	.8846
		R3P11	1.0004	144 DEG	RAKE
		R3P12	.9945	A144	.9245
		R3P13	1.0009	H144	.9158
		R3P14	1.0003	U144	.8787
		R3P15	1.0007	C144	.8744
		R3P16	1.0008	E144	.8710

SPIKE M2		CUWL M4		STATIC PRESSURES			
STAT XCM/RC=	1.4678	STAT XCM/RC=	1.5380	SPIKE		CUWL	
S9	.8999	S20	.8297	XCM/RC	P/PO	XCM/RC	P/PO
R2P1	.9097	R4P1	.9570	S1	.0762	S14	.0340
R2P2	.9209	R4P2	.9701	S2	.0728	S15	.1866
R2P3	.9441	R4P3	.9725	S11	.0728	S16	.4150
R2P4	.9722	R4P4	.9736	S12	.0728	S17	.8470
R2P5	.9747	R4P5	.9746	S13	.0728	S18	1.1740
		R4P6	.9757	S3	.1408	S19	1.4590
		R4P7	.9753	S4	.4068	S20	1.5400
		R4P8	.9757	S5	.6426	S21	1.8270
		R4P9	.9760	S6	.8848	S22	2.7840
		R4P10	.9751	S7	1.0178	S23	3.2980
		R4P11	.9746	S8	1.1446	S26	5.2890
		R4P12	.9730	S9	1.3128		
				S10	1.8488		
				S27	5.3000		
				S28	.6428		

SPIKE M6		CUWL M5	
STAT XCM/RC=	3.5046	STAT XCM/RC=	3.3270
S23	.7574	S23	.7574
M6P1	.8833	M5P1	.8431
M6P2	.9126	M5P2	.8481
M6P3	.9196	M5P3	.8593
M6P4	.9292	M5P4	.8645
M6P5	.9345	M5P5	.8743
M6P8	.9388	M5P6	.8858
M6P9	.9337	M5P7	.9286
M6P10	.9216	M5P8	.9507
M6P11	.8887	M5P9	.9488
		M5P10	.9454
		M5P11	.9401

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	91	FLIGHT DATE	09/20/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	288.9 DEG K	MAX-MIN DIST	.1160
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9170 ATMUS	K=CIRCUMF.	.2448
START	2:54:50.001	INTERVAL	1.000	ENG. FACE RECOV	.8880	ENGINE M/M*	.7534	K=RADIAL	.1569
STOP	3: 01:19.999	ENG COM RPM	6699.	ENG. FACE MACH NO	.4878	COWL M/M*	.4417	K=DELTA	.0308
				COWL LIP RECOV	.9425	ADDITIVE M/M*	.3117	K=A	.1877
				MACH AT COWL LIP	.2754				

SPIKE R1		COWL K3		STAT XCM/RC# 5.4830	
STAT XCM/RC#	.0728	STAT XCM/RC#	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9354	S14	.8529	A36	.9071 A198
R1P1	.9994	R3P1	.8511	B36	.8874 B198
R1P2	1.0002	R3P2	.8510	C36	.8825 C198
R1P3	1.0003	R3P3	.8509	D36	.8440 D198
R1P4	.9981	R3P4	.8506	E36	.8337 E198
R1P5	1.0002	R3P5	.8508	90 DEG HAKE 252 DEG HAKE	
R1P6	1.0002	R3P6	.8507	A90	.9320 A252
R1P7	1.0003	R3P7	.9692	B90	.9284 B252
R1P8	1.0002	R3P8	.8483	C90	.9034 C252
R1P9	.9976	R3P9	.9736	D90	.8891 D252
		R3P10	.9996	E90	.8783 E252
		R3P11	1.0006	144 DEG HAKE 324 DEG HAKE	
		R3P12	.9448	A144	.9230 A324
		R3P13	1.0010	B144	.9127 B324
		R3P14	1.0009	D144	.8733 D324
		R3P15	1.0009	C144	.8684 C324
		R3P16	1.0009	E144	.8646 E324

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCM/RC#	1.4678	STAT XCM/RC#	1.5380	SPIKE		COWL	
S9	.8950	S20	.8216	XCM/RC	P/PO	IAP	XCM/RC P/PO
H2P1	.9059	H4P1	.9569	S1	.8762	.9815 S14	.0340 .8529
H2P2	.9178	H4P2	.9691	S2	.8728	.9354 S15	.1860 .8493
H2P3	.9432	H4P3	.9719	S11	.8728	.9374 S16	.4150 .8938
H2P4	.9710	H4P4	.9738	S12	.8728	.9368 S17	.8470 .8862
H2P5	.9752	H4P5	.9746	S13	.8728	.9385 S18	1.1740 .8941
		H4P6	.9755	S3	.1408	.9098 S19	1.4590 .8951
		H4P7	.9763	S4	.4068	.8624 S20	1.5400 .8216
		H4P8	.9754	S5	.6428	.8672 S21	1.8270 .8902
		H4P9	.9745	S6	.8898	.8700 S22	2.7840 .7130
		H4P10	.9740	S7	1.0178	.8743 S23	3.2980 .7425
		H4P11	.9740	S8	1.1498	.8830 S26	5.2890 .7475
		H4P12	.9725	S9	1.5128	.8950	
				S10	1.8488	.8908	
				S27	3.3000	.7586	
				S28	.6428	.9646	

SPIKE R6		COWL K5	
STAT XCM/RC#	3.5040	STAT XCM/RC#	3.3270
S23	.7425	S23	.7425
R6P1	.8749	R5P1	.8355
R6P2	.9090	R5P2	.8436
R6P3	.9157	R5P3	.8508
R6P4	.9256	R5P4	.8579
R6P5	.9310	R5P5	.8652
R6P8	.9351	R5P6	.8824
R6P9	.9294	R5P7	.9197
R6P10	.9194	R5P8	.9480
R6P11	.8837	R5P9	.9449
		R5P10	.9405
		R5P11	.9386

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	93	FLIGHT DATE 09/20/79	SPIKE POS. OX/RC	.8582	AMBIENT TEMP	288.9 DEG K	MAX=MIN DIST	.0196
		FLIGHT NO. 0	BYPASS POS. CLOSED		AMBIENT PRESS	69166 ATMUS	K-CIRCUMF.	.0764
START	3: 5135.001	INTERVAL 1.000	ENG. FACE RECOV	.9702	ENGINE M/M*	4882	K-RADIAL	.0230
STOP	3: 01 5.000	ENG CLK RPM 3799.	ENG. FACE MACH NO	.2025	COWL M/M*	3362		
			COWL LIP RECOV	.9719	ADDITIVE M/M*	.1519	K=DELTA	.0014
			MACH AT COWL LIP	.1990			K=A	.0243

SPIKE H1		COWL R3		STAT XCLW/RC= 5.4850			
STAT XCLW/RC#	.0728	STAT XCLW/RC#	.0700	36 DEG WAKE	198 DEG WAKE		
S2	.9680	S14	.9228	A36	.9685	A198	.9721
R1P1	1.0023	R3P1	.9212	B36	.9712	H198	.9731
R1P2	1.0028	R3P2	.9211	C36	.9723	C198	.9801
R1P3	1.0030	R3P3	.9209	D36	.9723	D198	.9707
R1P4	1.0016	R3P4	.9207	E36	.9708	E198	.9602
R1P5	1.0029	R3P5	.9209	90 DEG WAKE	252 DEG WAKE		
R1P6	1.0028	R3P6	.9210	A90	.9704	A252	.9685
R1P7	1.0029	R3P7	.9862	B90	.9725	B252	.9697
R1P8	1.0024	R3P8	.9456	C90	.9727	C252	.9692
R1P9	1.0009	R3P9	.9848	D90	.9700	D252	.9683
		R3P10	1.0014	E90	.9673	E252	.9654
		R3P11	1.0028	144 DEG WAKE	324 DEG WAKE		
		R3P12	.9994	A144	.9706	A324	.9707
		R3P13	1.0030	B144	.9732	B324	.9728
		R3P14	1.0029	D144	.9706	C324	.9719
		R3P15	1.0033	C144	.9656	U324	.9700
		R3P16	1.0033	E144	.9611	E324	.9679

SPIKE H2		COWL H4		STATIC PRESSURES					
STAT XCLW/RC#	1.4678	STAT XCLW/RC#	1.5340	SPIKE		COWL			
S9	.9455	S20	.9055	XCLW/RC	P/PO	TAP	XCLW/RC	P/PO	
R2P1	.9532	H4P1	.9778	S1	.0762	.9924	S14	.0340	.9228
R2P2	.9583	H4P2	.9855	S2	.0728	.9680	S15	.1860	.9192
R2P3	.9706	H4P3	.9873	S11	.0728	.9669	S16	.4150	.9451
R2P4	.9848	H4P4	.9881	S12	.0728	.9670	S17	.8470	.9414
R2P5	.9879	H4P5	.9862	S13	.0728	.9680	S18	1.1740	.9457
		H4P6	.9883	S3	.1488	.9525	S19	1.4590	.9458
		H4P7	.9884	S4	.4088	.9270	S20	1.5400	.9055
		H4P8	.9878	S5	.6428	.9305	S21	1.8270	.9406
		H4P9	.9882	S6	.8896	.9313	S22	2.7840	.9392
		H4P10	.9867	S7	1.0178	.9345	S23	3.2980	.9443
		H4P11	.9865	S8	1.1498	.9394	S26	5.2890	.9415
		H4P12	.9856	S9	1.5126	.9455			
				S10	1.8488	.9423			
				S27	5.3000	.9440			
				S28	.0420	.9820			

SPIKE H6		COWL H5	
STAT XCLW/RC#	3.5040	STAT XCLW/RC#	3.3270
S23	.9443	S23	.9443
H6P1	.9615	H5P1	.9575
H6P2	.9687	H5P2	.9575
H6P3	.9658	H5P3	.9590
H6P4	.9676	H5P4	.9598
H6P5	.9693	H5P5	.9614
H6P6	.9706	H5P6	.9633
H6P9	.9716	H5P7	.9656
H6P10	.9721	H5P8	.9713
H6P11	.9727	H5P9	.9748
		H5P10	.9758
		H5P11	.9735

YF-12 INLET NOISE SUPPRESSION STUDY
 RUN 94 FLIGHT DATE 09/20/79 SPIKE POS. DX/MC .0582 AMBIENT TEMP 249.4 DEG K MAX-MIN DIST .0222
 FLIGHT NO. 0 BYPASS POS. CLOSED AMBIENT PRESS .9177 ATMOS K-CIRCUMF. .6250
 START 3: 8135.003 INTERVAL 1.000 ENG. FACE REC OV .9637 ENGINE M/M* .4976 K-RADIAL .0260
 STOP 3: 9: 4.999 ENG LUM RPM 4009. ENG. FACE MACH NO .2141 COWL M/M* .3586 K-DELTA -.0146
 COWL LIP REC OV .9653 ADDITIVE M/M* .1390 K-A .0406
 MACH AT LUM LIP .2145

SPIKE R1		COWL K3		STAT XCM/MC# 5.4830	
STAT XCM/RC# .0728	STAT XCM/RC# .0700	36 DEG RAKE	198 DEG RAKE		
S2 .9612	S14 .9084	A36 .9616	A198 .9657		
R1P1 1.0011	R3P1 .9065	H36 .9647	H198 .9679		
R1P2 1.0018	R3P2 .9064	C36 .9652	C198 .9740		
R1P3 1.0019	R3P3 .9062	D36 .9655	D198 .9651		
R1P4 .9999	R3P4 .9063	E36 .9642	E198 .9594		
R1P5 1.0018	R3P5 .9060	90 DEG RAKE	252 DEG RAKE		
R1P6 1.0018	R3P6 .9062	A90 .9633	A252 .9642		
R1P7 1.0017	R3P7 .9815	H90 .9656	H252 .9649		
R1P8 1.0016	R3P8 .9315	C90 .9657	C252 .9654		
R1P9 .9995	R3P9 .9770	D90 .9626	D252 .9634		
	R3P10 .9998	E90 .9596	E252 .9598		
	R3P11 1.0015	144 DEG RAKE	324 DEG RAKE		
	R3P12 .9978	A144 .9636	A324 .9653		
	R3P13 1.0020	H144 .9653	H324 .9675		
	R3P14 1.0017	C144 .9625	C324 .9661		
	R3P15 1.0020	D144 .9575	D324 .9635		
	R3P16 1.0020	E144 .9526	E324 .9668		

SPIKE R2		COWL M4		STATIC PRESSURES			
STAT XCM/RC# 1.4678	STAT XCM/RC# 1.5380			SPIKE		COWL	
S9 .9353	S20 .8871	TAP	XCM/MC	P/PO	TAP	XCM/MC	P/PO
R2P1 .9426	R4P1 .9718	S1	.0762	.9899	S14	.0340	.9084
R2P2 .9492	R4P2 .9813	S2	.0728	.9612	S15	.1860	.9053
R2P3 .9651	R4P3 .9831	S11	.0728	.9606	S16	.4150	.9339
R2P4 .9808	R4P4 .9847	S12	.0728	.9600	S17	.8470	.9302
R2P5 .9850	R4P5 .9842	S13	.0728	.9615	S18	1.1740	.9355
	R4P6 .9846	S3	.1408	.9433	S19	1.4590	.9352
	R4P8 .9851	S4	.4068	.9136	S20	1.5400	.8871
	R4P9 .9846	S5	.6428	.9176	S21	1.8270	.9294
	R4P10 .9842	S6	.8898	.9187	S22	2.7880	.9276
	R4P11 .9832	S7	1.0178	.9219	S23	3.2980	.9335
	R4P12 .9820	S8	1.1448	.9278	S26	5.2890	.9304
		S9	1.5128	.9353			
		S10	1.8488	.9316			
		S27	5.3000	.9335			
		S28	.6428	.9779			

SPIKE R6		COWL K5	
STAT XCM/RC# 3.5040	STAT XCM/RC# 3.3270		
S23 .9335	S23 .9335		
R6P1 .9532	R5P1 .9483		
R6P2 .9615	R5P2 .9444		
R6P3 .9595	R5P3 .9506		
R6P4 .9600	R5P4 .9514		
R6P5 .9612	R5P5 .9532		
R6P8 .9642	R5P6 .9549		
R6P9 .9651	R5P7 .9541		
R6P10 .9661	R5P8 .9645		
R6P11 .9670	R5P9 .9668		
	R5P10 .9642		
	R5P11 .9643		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	95	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	289.4 DEG K	MAX-MIN DIST	.0281
START	3:11:20.000	FLIGHT NU.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	1.9171 ATMUS	K-CIRCUMF.	.5890
STOP	3:11:49.997	INTERVAL	1.000	ENG. FACE REC'D	.9589	ENGINE M/M*	.5093	K-RADIAL	.0290
		ENG COM RPM	4215.	ENG. FACE MACH NO	.2342	COWL M/M*	.3796	K-DELTA	-.0139
				COWL LIP REC'D	.9610	ADDITIVE M/M*	.1246	K-A	.0428
				MACH AT COWL LIP	.2290				

SPIKE R1		COWL K3		STAT XCW/MC# 5.4830			
STAT XCW/RC#	.0728	STAT XCW/MC#	.0700	36 DEG MAKE	198 DEG MAKE		
S2	.9564	S14	.8967	A36	.9565	A198	.9596
R1P1	1.0018	R3P1	.8946	H36	.9605	H198	.9634
R1P2	1.0020	R3P2	.8939	C36	.9614	C198	.9709
R1P3	1.0021	R3P3	.8938	D36	.9615	D198	.9628
R1P4	1.0003	R3P4	.8937	E36	.9603	E198	.9545
R1P5	1.0021	R3P5	.8937	90 DEG MAKE 252 DEG MAKE			
R1P6	1.0022	R3P6	.8939	A90	.9574	A252	.9586
R1P7	1.0021	R3P7	.9805	H90	.9615	H252	.9547
R1P8	1.0021	R3P8	.9244	C90	.9615	C252	.9601
R1P9	1.0002	R3P9	.9755	D90	.9578	D252	.9585
		R3P10	.9997	E90	.9588	E252	.9542
		R3P11	1.0021	144 DEG MAKE 324 DEG MAKE			
		R3P12	.9977	A144	.9580	A324	.9604
		R3P13	1.0026	H144	.9612	H324	.9632
		R3P14	1.0023	D144	.9574	D324	.9609
		R3P15	1.0027	C144	.9517	C324	.9589
		R3P16	1.0027	E144	.9454	E324	.9547

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/RC#	1.4678	STAT XCW/MC#	1.5380	SPIKE		COWL	
S9	.9265	S20	.8721	XCW/MC	P/PU	IAP	XCW/RC
R2P1	.9355	R4P1	.9683	S1	.0762	.9843	S14
R2P2	.9434	R4P2	.9786	S2	.0728	.9564	S15
R2P3	.9599	R4P3	.9826	S11	.0728	.9558	S16
R2P4	.9789	R4P4	.9832	S12	.0728	.9536	S17
R2P5	.9830	R4P5	.9834	S13	.0728	.9567	S18
		R4P6	.9836	S3	.1408	.9360	S19
		R4P7	.9832	S4	.4068	.9025	S20
		R4P8	.9828	S5	.6428	.9070	S21
		R4P9	.9828	S6	.8898	.9086	S22
		R4P10	.9823	S7	1.0178	.9120	S23
		R4P11	.9815	S8	1.1448	.9183	S26
		R4P12	.9805	S9	1.3128	.9265	
				S10	1.8488	.9226	
				S27	5.3000	.9246	
				S28	.6428	.9756	

SPIKE R6		COWL K5	
STAT XCW/RC#	3.5040	STAT XCW/MC#	3.3270
S23	.9244	S23	.9244
H6P1	.9468	H5P1	.9418
H6P2	.9562	H5P2	.9424
H6P3	.9540	H5P3	.9444
H6P4	.9549	H5P4	.9446
H6P5	.9568	H5P5	.9474
H6P8	.9593	H5P6	.9498
H6P9	.9604	H5P7	.9534
H6P10	.9620	H5P8	.9601
H6P11	.9626	H5P9	.9640
		H5P10	.9661
		H5P11	.9653

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	96	FLIGHT DATE	09/20/79	SPIKE POS. UX/RC	.8582	AMBIENT TEMP	290.0 DEG K	MAX-MIN DIST	.0285
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9172 ATMOS	K-CIRCUMF.	.5671
START	3:13:50.001	INTERVAL	1.000	ENG. FACE RECOV	.9529	ENGINE M/M*	.5185	K-RADIAL	.0304
STOP	3:14:20.000	ENG CUR RPM	4385.	ENG. FACE MACH NO	.2522	COWL M/M*	.4028		
				COWL LIP RECOV	.9551	ADDITIVE M/M*	.1156	K-DELTA	-.0059
				MACH A1 COWL LIP	.2456			K-A	.0363

SPIKE R1		COWL R3		STAT XCW/RC= 5.4830			
STAT XCW/RC=	.0728	STAT XCW/RC=	.0700	36 DEG HAKE	198 DEG HAKE		
S2	.9498	S14	.8819	A36	.9506	A198	.9558
R1P1	1.0014	R3P1	.8785	B36	.9552	B198	.9579
R1P2	1.0018	R3P2	.8782	C36	.9505	C198	.9656
R1P3	1.0020	R3P3	.8774	D36	.9505	D198	.9545
R1P4	1.0003	R3P4	.8779	E36	.9542	E198	.9463
R1P5	1.0022	R3P5	.8780	90 DEG HAKE	252 DEG HAKE		
R1P6	1.0019	R3P6	.8784	A90	.9533	A252	.9505
R1P7	1.0021	R3P7	.8763	B90	.9562	B252	.9529
R1P8	1.0019	R3P8	.9156	C90	.9500	C252	.9517
R1P9	1.0002	R3P9	.9733	D90	.9526	D252	.9506
		R3P10	.9999	E90	.9488	E252	.9453
		R3P11	1.0022	144 DEG HAKE	324 DEG HAKE		
		R3P12	.9972	A144	.9514	A324	.9535
		R3P13	1.0027	B144	.9500	B324	.9571
		R3P14	1.0022	D144	.9536	C324	.9533
		R3P15	1.0026	C144	.9460	D324	.9533
		R3P16	1.0026	E144	.9384	E324	.9497

SPIKE R2		COWL R4		STATIC PRESSURES					
STAT XCW/RC=	1.4678	STAT XCW/RC=	1.5380						
S9	.9150	S20	.8513	TAP	SPIKE		COWL		
R2P1	.9243	R4P1	.9647	S1	XCW/RC	P/PO	XCW/RC	P/PO	
R2P2	.9338	R4P2	.9764	S2	.0762	.9876	S14	.0340	.8819
R2P3	.9529	R4P3	.9785	S11	.0728	.9498	S15	.1860	.8778
R2P4	.9765	R4P4	.9804	S12	.0728	.9491	S16	.4150	.9152
R2P5	.9809	R4P5	.9805	S13	.0728	.9489	S17	.8470	.9096
		R4P6	.9809	S15	.0728	.9505	S18	1.1740	.9161
		R4P7	.9817	S3	.1408	.9264	S19	1.4590	.9157
		R4P8	.9813	S4	.4008	.8882	S20	1.5400	.8513
		R4P9	.9803	S5	.6428	.8927	S21	1.8270	.9082
		R4P10	.9803	S6	.8698	.8945	S22	2.7840	.9054
		R4P11	.9798	S7	1.0178	.8986	S23	3.2980	.9131
		R4P12	.9773	S8	1.1498	.9054	S26	5.2890	.9095
				S9	1.5128	.9150			
				S10	1.8488	.9107			
				S27	5.3000	.9134			
				S28	.6428	.9723			

SPIKE R6		COWL R5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.9131	S23	.9131
R6P1	.9387	R5P1	.9331
R6P2	.9479	R5P2	.9337
R6P3	.9460	R5P3	.9360
R6P4	.9486	R5P4	.9373
R6P5	.9489	R5P5	.9393
R6P8	.9531	R5P6	.9425
R6P9	.9543	R5P7	.9467
R6P10	.9553	R5P8	.9533
R6P11	.9557	R5P9	.9592
		R5P10	.9603
		R5P11	.9596

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	97	FLIGHT DATE	09/20/79	SPIKE POS. OX/KC	.8582	AMBIENT TEMP	290.0 DEG K	MAX-MIN DIST	.0348
START	3:15:50.004	FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9180 ATMOS	K=CIRCUMF.	.5136
STOP	3:16:20.000	INTERVAL	1.000	ENG. FARE RECOV	.9445	ENGINE M/M*	.85314	K=RADIAL	.0313
		ENG CUM RPM	4601.	ENG. FARE MACH NO	.2724	COWL M/M*	.4272	K=DELTA	.0203
				COWL LIP RECOV	.9470	ADDITIVE M/M*	.1042	K=A	.0516
				MACH AT COWL LIP	.2642				

SPIKE R1		COWL K3		STAT XCM/KC= 5.4830			
STAT XCM/KC	.0728	STAT XCM/KC	.0700	30 DEG MAKE	198 DEG MAKE		
S2	.9414	S14	.8628	A36	.9410	A198	.9487
R1P1	1.0005	R3P1	.8597	B36	.9466	B198	.9490
R1P2	1.0010	R3P2	.8595	C36	.9474	C198	.9580
R1P3	1.0011	R3P3	.8594	D36	.9474	D198	.9486
R1P4	.9991	R3P4	.8593	E36	.9456	E198	.9364
R1P5	1.0011	R3P5	.8596	90 DEG MAKE	252 DEG MAKE		
R1P6	1.0010	R3P6	.8594	A90	.9444	A252	.9442
R1P7	1.0010	R3P7	.9731	H90	.9476	H252	.9480
R1P8	1.0009	R3P8	.9001	C90	.9467	C252	.9475
R1P9	.9987	R3P9	.9684	D90	.9432	D252	.9455
		R3P10	.9487	E90	.9388	E252	.9395
		R3P11	1.0009	144 DEG MAKE	324 DEG MAKE		
		R3P12	.9953	A144	.9443	A324	.9452
		R3P13	1.0016	H144	.9469	H324	.9500
		R3P14	1.0012	D144	.9428	D324	.9478
		R3P15	1.0017	C144	.9340	C324	.9447
		R3P16	1.0016	E144	.9251	E324	.9406

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCM/KC	1.4678	STAT XCM/KC	1.5380	SPIKE		COWL	
S9	.9010	S20	.8277	XCM/KC	P/PO	XCM/KC	P/PO
R2P1	.9108	R4P1	.9568	.0762	.9650	S14	.0340
R2P2	.9207	R4P2	.9724	.0728	.9414	S15	.1860
R2P3	.9447	R4P3	.9750	.0728	.9407	S16	.4150
R2P4	.9716	R4P4	.9769	.0728	.9390	S17	.8470
R2P5	.9777	R4P5	.9775	.0728	.9426	S18	1.1740
		R4P6	.9778	S3	.1408	S19	1.4590
		R4P7	.9774	S4	.4068	S20	1.5400
		R4P8	.9778	S5	.6426	S21	1.8270
		R4P9	.9774	S6	.8698	S22	2.7840
		R4P10	.9756	S7	1.0178	S23	3.2980
		R4P11	.9745	S8	1.1498	S26	5.2890
		R4P12	.9727	S9	1.3128		
				S10	1.8488		
				S27	5.3000		
				S28	.6428		

SPIKE K6		COWL K5	
STAT XCM/KC	3.5040	STAT XCM/KC	3.3270
S23	.8988	S23	.8988
R6P1	.9292	H5P1	.9210
R6P2	.9397	H5P2	.9229
R6P3	.9381	H5P3	.9247
R6P4	.9389	H5P4	.9254
R6P5	.9409	H5P5	.9267
R6P8	.9447	H5P6	.9316
R6P9	.9462	H5P7	.9357
R6P10	.9465	H5P8	.9447
R6P11	.9481	H5P9	.9513
		H5P10	.9534
		H5P11	.9517

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	9A	FLIGHT DATE	09/20/79	SPIKE POS. OX/RC	.8582	AMBIENT TEMP	290.0 DEG K	MAX-MIN UIST	.0378
START	3:17:40.001	FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9173 ATMOS	K-CIRCUMF.	.4821
STOP	3:18: 9.998	INTERVAL	1.000	ENG. FACE RECUV	.9378	ENGINE M/M*	.5425	K-RADIAL	.0334
		ENG CUR RPM	4798.	ENG. FACE MACH NO	.2905	COWL M/M*	.4479	K-DELTA	.0211
				COWL LIP RECUV	.9410	ADDITIVE M/M*	.0946	K=A	.0544
				MACH AT COWL LIP	.2802				

SPIKE R1		COWL K3		STAT XCW/RC= 5.4830			
STAT XCW/RC=	.0728	STAT XCW/RC=	.0700	36 DEG MAKE	198 DEG MAKE		
S2	.9344	S14	.8478	A36	.9340	A198	.9405
R1P1	1.0009	R3P1	.8445	B36	.9403	B198	.9843
R1P2	1.0014	R3P2	.8442	C36	.9419	C198	.9522
R1P3	1.0015	R3P3	.8437	D36	.9425	D198	.9423
R1P4	.9994	R3P4	.8435	E36	.9402	E198	.9243
R1P5	1.0021	R3P5	.8435	90 DEG MAKE	252 DEG MAKE		
R1P6	1.0016	R3P6	.8435	A90	.9374	A252	.9376
R1P7	1.0016	R3P7	.9699	H90	.9409	H252	.9407
R1PA	1.0013	R3PA	.8896	C90	.9403	C252	.9411
R1P9	.9990	R3P9	.9683	D90	.9370	D252	.9379
		R3P10	1.0000	E90	.9325	E252	.9334
		R3P11	1.0014	144 DEG MAKE	324 DEG MAKE		
		R3P12	.9953	A144	.9381	A324	.9400
		R3P13	1.0022	H144	.9412	H324	.9433
		R3P14	1.0016	D144	.9364	D324	.9406
		R3P15	1.0021	C144	.9286	C324	.9381
		R3P16	1.0019	E144	.9167	E324	.9323

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/RC=	1.4676	STAT XCW/RC=	1.5380	SPIKE		COWL	
S9	.8880	S20	.8068	XCW/KL	P/PO	XCW/RC	P/PO
R2P1	.8978	K4P1	.9531	S1	.9762	S14	.0340
R2P2	.9098	K4P2	.9682	S2	.9728	S15	.1860
R2P3	.9372	K4P3	.9720	S11	.9728	S16	.4150
R2P4	.9694	K4P4	.9743	S12	.9728	S17	.8470
R2P5	.9759	K4P5	.9756	S13	.9728	S18	1.1740
		K4P6	.9753	S3	.9408	S19	1.4590
		K4P7	.9761	S4	.4068	S20	1.5400
		K4P8	.9751	S5	.8428	S21	1.8270
		K4P9	.9741	S6	.8898	S22	2.7840
		K4P10	.9738	S7	1.0178	S23	3.2980
		K4P11	.9723	S8	1.1498	S26	5.2890
		K4P12	.9694	S9	1.5128		.8816
				S10	1.8488		.8829
				S27	3.3008		.8869
				S28	.6428		.9641

SPIKE R6		COWL K5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.8854	S23	.8854
R6P1	.9193	R5P1	.9112
R6P2	.9317	R5P2	.9127
R6P3	.9290	R5P3	.9148
R6P4	.9320	R5P4	.9161
R6P5	.9338	R5P5	.9194
R6P8	.9371	R5P6	.9232
R6P9	.9369	R5P7	.9284
R6P10	.9410	R5P8	.9378
R6P11	.9410	R5P9	.9451
		R5P10	.9481
		R5P11	.9470

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	99	FLIGHT DATE	09/20/79	SPIKE POS. DX/NC	.8582	AMBIENT TEMP	290.0 DEG K	MAX-MIN DIST	.0416
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9177 ATMOS	K-CIRCUMF.	.4545
START	3:19:40.002	INTERVAL	1.000	ENG. FACE RECOV	.9282	ENGINE M/M*	.5577	K-RADIAL	.0378
STOP	3:20: 9.994	ENG CUR RPM	5049.	ENG. FACE MACH NU	.3146	COWL M/M*	.4748		
				COWL LIP RECOV	.9320	ADDITIVE M/M*	.0829	K-DELTA	-.0097
				MACH AT COWL LIP	.3021			K-A	.0475

SPIKE R1		COWL K3		STAT XCW/RCE = 5.4830	
STAT XCW/RCE =	.0728	STAT XCW/RCE =	.0700	36 DEG MAKE	198 DEG MAKE
S2	.9248	S14	.8248	A36	.9250
R1P1	1.0000	R3P1	.8204	B36	.9320
R1P2	1.0008	R3P2	.8203	C36	.9337
R1P3	1.0010	R3P3	.8202	D36	.9344
R1P4	.9988	R3P4	.8203	E36	.9322
R1P5	1.0009	R3P5	.8201	90 DEG MAKE	252 DEG MAKE
R1P6	1.0009	R3P6	.8200	A90	.9284
R1P7	1.0008	R3P7	.9655	B90	.9335
R1P8	1.0007	R3P8	.8809	C90	.9334
R1P9	.9982	R3P9	.9721	D90	.9297
		R3P10	1.0002	E90	.9227
		R3P11	1.0007	144 DEG MAKE	324 DEG MAKE
		R3P12	.9939	A144	.9286
		R3P13	1.0016	B144	.9340
		R3P14	1.0008	D144	.9292
		R3P15	1.0015	C144	.9171
		R3P16	1.0014	F144	.9049
				E324	.9218

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/RCE =	1.4678	STAT XCW/RCE =	1.5380	SPIKE	XCW/RCE	P/PU	TAP
S9	.8699	S20	.7774	S1	.0762	.9807	S14
R2P1	.8820	R4P1	.9467	S2	.0728	.9248	S15
R2P2	.8946	R4P2	.9631	S11	.0728	.9240	S16
R2P3	.9277	R4P3	.9675	S12	.0728	.9234	S17
R2P4	.9660	R4P4	.9698	S13	.0728	.9262	S18
R2P5	.9715	R4P5	.9715	S3	.1408	.8905	S19
		R4P6	.9715	S4	.4068	.8327	S20
		R4P7	.9724	S5	.6428	.8381	S21
		R4P8	.9721	S6	.8698	.8416	S22
		R4P9	.9724	S7	1.0178	.8464	S23
		R4P10	.9710	S8	1.1448	.8552	S26
		R4P11	.9761	S9	1.5128	.8694	
		R4P12	.9672	S10	1.8488	.8644	
				S27	5.3000	.8645	
				S28	.6428	.9581	

SPIKE R6		COWL K5	
STAT XCW/RCE =	3.5040	STAT XCW/RCE =	3.3270
S23	.8678	S23	.8678
R6P1	.9084	R5P1	.8977
R6P2	.9210	R5P2	.8987
R6P3	.9183	R5P3	.9004
R6P4	.9198	R5P4	.9030
R6P5	.9220	R5P5	.9065
R6P8	.9270	R5P6	.9162
R6P9	.9291	R5P7	.9177
R6P10	.9313	R5P8	.9282
R6P11	.9333	R5P9	.9387
		R5P10	.9409
		R5P11	.9378

YF-12 INLET NOISE SUPPRESSION STUDY
 RUN 100 FLIGHT DATE 09/20/79 SPIKE POS. UX/MC .0582 AMBIENT TEMP 290.0 DEG K
 FLIGHT NO. 0 BYPASS POS. CLOSED AMBIENT PRESS .9179 ATMOS
 START 3:22:10.001 INTERVAL 1.000 ENG. FALC RECOV .9202 ENGINE M/M* .5703
 STOP 3:22:40.000 ENG CUR RPM 5243. ENG. FALC MACH NO .3550 COWL M/M* .4941
 COWL LIP RECOV .9250 ADDITIVE M/M* .0762
 MACH AT COWL LIP .3187
 MAX-MIN DIST .0455
 K-CIRCUMF. .4375
 K-RADIAL .0379
 K-DELTA .0031
 K-A .0410

SPIKE R1 STAT XCM/RC= .0728 COWL K3 STAT XCM/RC= .0700 STAT XCM/RC= 5.4830
 S2 .9170 S14 .8073 36 DEG MAKE 198 DEG MAKE
 R1P1 .9995 R3P1 .8025 B36 .9158 A198 .9235
 R1P2 1.0002 R3P2 .8023 B36 .9238 H198 .9262
 R1P3 1.0005 R3P3 .8022 C36 .9272 C198 .9360
 R1P4 .9984 R3P4 .8024 D36 .9273 D198 .9234
 R1P5 1.0004 R3P5 .8026 E36 .9247 E198 .9054
 R1P6 1.0006 R3P6 .8027 90 DEG MAKE 252 DEG MAKE
 R1P7 1.0003 R3P7 .9596 A90 .9212 A252 .9154
 R1P8 1.0004 R3P8 .8773 B90 .9267 B252 .9180
 R1P9 .9977 R3P9 .9770 C90 .9273 C252 .9198
 R3P10 1.0003 D90 .9222 D252 .9171
 R3P11 1.0005 E90 .9142 E252 .9093
 R3P12 .9931 144 DEG MAKE 324 DEG MAKE
 R3P13 1.0012 A144 .9226 A324 .9220
 R3P14 1.0006 B144 .9284 B324 .9262
 R3P15 1.0013 D144 .9237 C324 .9227
 R3P16 1.0011 E144 .9089 D324 .9197
 .8941 E324 .9128

SPIKE H2 STAT XCM/RC= 1.4678 COWL K4 STAT XCM/RC= 1.5380 STATIC PRESSURES
 S9 .8552 S20 .7531 SPIKE XCM/RC P/PO TAP COWL P/PO
 R2P1 .8668 R4P1 .9399 .0762 .9787 S14 .0340 .8073
 R2P2 .8805 R4P2 .9544 S1 .0728 .9170 S15 .1860 .8020
 R2P3 .9168 R4P3 .9642 S2 .0728 .9166 S16 .4150 .8592
 R2P4 .9615 R4P4 .9661 S11 .0728 .9160 S17 .8470 .8475
 R2P5 .9689 R4P5 .9677 S12 .0728 .9184 S18 1.1740 .8574
 R4P6 .9677 S13 .1408 .8747 S19 1.4590 .8582
 R4P7 .9643 S14 .4006 .8163 S20 1.5400 .7531
 R4P8 .9645 S15 .6428 .8218 S21 1.8270 .8443
 R4P9 .9682 S16 .8698 .8247 S22 2.7840 .8410
 R4P10 .9679 S17 1.0178 .8248 S23 3.2980 .8517
 R4P11 .9664 S18 1.1448 .8393 S26 5.2890 .8480
 R4P12 .9642 S19 1.5128 .8552
 S20 1.8488 .8442
 S27 5.3000 .8544
 S28 .8426 .9541

SPIKE H6 STAT XCM/RC= 3.5040 COWL K5 STAT XCM/RC= 3.3270
 S23 .8517 S23 .8517
 R6P1 .8952 R5P1 .8854
 R6P2 .9108 R5P2 .8879
 R6P3 .9076 R5P3 .8904
 R6P4 .9115 R5P4 .8916
 R6P5 .9138 R5P5 .8956
 R6P8 .9180 R5P6 .8949
 R6P9 .9202 R5P7 .9071
 R6P10 .9226 R5P8 .9234
 R6P11 .9250 R5P9 .9309
 R5P10 .9354
 R5P11 .9326

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	101	FLIGHT DATE	09/20/79	SPIKE POS. DX/MC	.8582	AMBIENT TEMP	290.0 DEG K	MAX-MIN DIST	.0470
START	3:24:10.000	FLIGHT NU.	0	HYPASS POS.	CLOSED	AMBIENT PRESS	.9170 ATMOS	K=CIRCUMF.	.4188
STOP	3:24:39.998	INTERVAL	1.000	ENG. FACE RECOV	.9160	ENGINE M/M*	.5851	K=RADIAL	.0431
		ENG CUR RPM	5422.	ENG. FACE MACH NO	.3481	COWL M/M*	.5086	K=DELTA	.0119
				COWL LIP RECOV	.9208	ADDITIVE M/M*	.0765	K=A	.0549
				MACH AT COWL LIP	.3511				

SPIKE R1		COWL K3		STAT XLM/KC= 5.4850	
STAT XCM/RC=	.0728	STAT XCM/KC=	.0700	36 DEG MAKE	198 DEG MAKE
S2	.9127	S14	.7944	A36	.9101 A198
R1P1	1.0015	R3P1	.7911	B36	.9184 B198
R1P2	1.0011	R3P2	.7907	C36	.9212 C198
R1P3	1.0015	R3P3	.7906	D36	.9233 D198
R1P4	1.0003	R3P4	.7904	E36	.9198 E198
R1P5	1.0015	R3P5	.7906	90 DEG MAKE 252 DEG MAKE	
R1P6	1.0021	R3P6	.7904	A90	.9175 A252
R1P7	1.0015	R3P7	.9590	B90	.9234 B252
R1P8	1.0012	R3P8	.8734	C90	.9235 C252
R1P9	.9992	R3P9	.9793	D90	.9182 D252
		R3P10	1.0016	E90	.9103 E252
		R3P11	1.0017	144 DEG MAKE 324 DEG MAKE	
		R3P12	.9939	A144	.9161 A324
		R3P13	1.0023	B144	.9242 B324
		R3P14	1.0017	D144	.9186 D324
		R3P15	1.0022	C144	.9051 C324
		R3P16	1.0021	E144	.8915 E324

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCM/RC=	1.4678	STAT XLM/KC=	1.5380	SPIKE		TAP	COWL
S9	.8452	S20	.7364	XCM/KC	P/P0	TAP	XCM/KC
R2P1	.8582	R4P1	.9391	S1	.0702	S14	.0340
R2P2	.8752	R4P2	.9583	S2	.0728	S15	.1860
R2P3	.9129	R4P3	.9634	S11	.0728	S16	.4150
R2P4	.9602	R4P4	.9650	S12	.0728	S17	.8470
R2P5	.9687	R4P5	.9674	S13	.0728	S18	1.1740
		R4P6	.9678	S3	.1408	S19	1.4590
		R4P7	.9694	S4	.4088	S20	1.5400
		R4P8	.9687	S5	.6428	S21	1.8270
		R4P9	.9684	S6	.8898	S22	2.7840
		R4P10	.9664	S7	1.0178	S23	3.2980
		R4P11	.9650	S8	1.1498	S26	5.2890
		R4P12	.9607	S9	1.5128		
				S10	1.8488		
				S27	5.3000		
				S28	.6428		

SPIKE R6		COWL K5	
STAT XCM/RC=	3.5040	STAT XLM/KC=	3.3270
S23	.8436	S23	.8436
R6P1	.8905	K5P1	.8789
R6P2	.9051	K5P2	.8811
R6P3	.9017	K5P3	.8831
R6P4	.9045	K5P4	.8851
R6P5	.9075	K5P5	.8883
R6P8	.9146	K5P6	.8932
R6P9	.9158	K5P7	.9021
R6P10	.9180	K5P8	.9176
R6P11	.9199	K5P9	.9282
		K5P10	.9320
		K5P11	.9271

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	102	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	290.0 DEG K	MAX-MIN DIST	.0499
START	3:26:15.003	FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9174 ATMOS	K=CIRCUMF.	.3956
STOP	3:26:44.999	INTERVAL	1.000	ENG. FALC REC'D	.9095	ENGINE M/M*	.5952	K=RADIAL	.0450
		ENG CUR RPM	5559.	ENG. FALC MACH NO	.3642	COWL M/M*	.5206	K=DELTA	.0096
				COWL LIP REC'D	.9147	ADDITIVE M/M*	.0746	K=A	.0546
				MACH AT COWL LIP	.3428				

SPIKE R1		COWL M3		STAT XCM/RC= 5.4830			
STAT XCM/RC=	.0728	STAT XCM/RC=	.0700	36 DEG MAKE	198 DEG MAKE		
S2	.9061	S14	.7804	A36	.9034	A198	.9109
R1P1	.9993	R3P1	.7760	B36	.9121	B198	.9185
R1P2	1.0000	R3P2	.7755	C36	.9101	C198	.9307
R1P3	1.0005	R3P3	.7749	D36	.9101	D198	.9166
R1P4	.9983	R3P4	.7751	E36	.9144	E198	.9009
R1P5	1.0002	R3P5	.7748	90 DEG MAKE		252 DEG MAKE	
R1P6	1.0009	R3P6	.7751	A90	.9095	A252	.9019
R1P7	1.0005	R3P7	.9548	H90	.9167	H252	.9067
R1P8	.9998	R3P8	.8691	C90	.9173	C252	.9094
R1P9	.9976	R3P9	.9811	U90	.9109	D252	.9047
		R3P10	1.0010	E90	.9013	E252	.8995
		R3P11	1.0009	144 DEG MAKE		324 DEG MAKE	
		R3P12	.9927	A144	.9095	A324	.9082
		R3P13	1.0015	B144	.9174	B324	.9141
		R3P14	1.0010	O144	.9110	C324	.9141
		R3P15	1.0014	C144	.8982	D324	.9094
		R3P16	1.0013	E144	.8654	E324	.8994

SPIKE R2		COWL M4		STATIC PRESSURES					
STAT XCM/RC=	1.4678	STAT XCM/RC=	1.5380	SPIKE		COWL			
S9	.8318	S20	.7166	XCM/RC	P/PO	IAP	XCM/RC	P/PO	
R2P1	.8448	K4P1	.9320	S1	.0762	.9765	S14	.0340	.7804
R2P2	.8662	K4P2	.9548	S2	.0728	.9061	S15	.1860	.7753
R2P3	.9059	K4P3	.9605	S11	.0728	.9053	S16	.4150	.8403
R2P4	.9584	K4P4	.9634	S12	.0728	.9051	S17	.8470	.8248
R2P5	.9661	K4P5	.9645	S13	.0728	.9083	S18	1.1740	.8349
		K4P6	.9650	S3	.1408	.8630	S19	1.4590	.8359
		K4P7	.9668	S4	.4068	.7849	S20	1.5400	.7166
		K4P8	.9664	S5	.6428	.7442	S21	1.8270	.8198
		K4P9	.9662	S6	.8896	.7983	S22	2.7840	.8168
		K4P10	.9651	S7	1.0178	.8033	S23	3.2980	.8305
		K4P11	.9638	S8	1.1498	.8131	S26	5.2890	.8255
		K4P12	.9611	S9	1.5126	.8318			
				S10	1.8488	.8258			
				S27	5.3000	.8338			
				S28	.6428	.9482			

SPIKE R6		COWL M5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.8305	S23	.8305
R6P1	.8796	K5P1	.8691
R6P2	.8976	K5P2	.8704
R6P3	.8924	K5P3	.8724
R6P4	.8960	K5P4	.8741
R6P5	.8980	K5P5	.8798
R6P8	.9061	K5P6	.8858
R6P9	.9081	K5P7	.8945
R6P10	.9109	K5P8	.9111
R6P11	.9136	K5P9	.9222
		K5P10	.9270
		K5P11	.9216

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	103	FLIGHT DATE	09/20/79	SPIKE POS. DX/MC	.8582	AMBIENT TEMP	290.6 DEG K	MAX-MIN DIST	.0514
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9177 ATMOS	K-CIRCUMF.	.3883
START	3:27:55.001	INTERVAL	1.000	ENG. FACE MLCUV	.9047	ENGINE M/M*	.6004	K-RADIAL	.0461
STOP	3:28:55.000	ENG COK RPM	5036.	ENG. FACE MACH NO	.3750	COWL M/M*	.5302	K-DELTA	.0138
				COWL LIP MLCUV	.9104	ADDITIVE M/M*	.0702	K-A	.0599
				MACH AT COWL LIP	.3521				

SPIKE R1		COWL R3		STAT XLM/MC= 5.4830	
STAT XCM/MC= .0728	STAT XCM/MC= .0700	36 DEG HAKE	198 DEG HAKE		
S2 .9015	S14 .7646	A36 .8469	A198 .9078		
R1P1 .9993	R3P1 .7651	H36 .9008	H198 .9135		
R1P2 1.0003	R3P2 .7647	C36 .9112	C198 .9280		
R1P3 1.0006	R3P3 .7642	D36 .9134	D198 .9112		
R1P4 .9983	R3P4 .7636	E36 .9098	E198 .8924		
R1P5 1.0005	R3P5 .7637	90 DEG HAKE	252 DEG HAKE		
R1P6 1.0007	R3P6 .7648	A90 .9051	A252 .8970		
R1P7 1.0006	R3P7 .9539	H90 .9121	H252 .9016		
R1P8 1.0003	R3P8 .8662	C90 .9135	C252 .9028		
R1P9 .9976	R3P9 .9826	D90 .9068	D252 .8986		
	R3P10 1.0008	E90 .8483	E252 .8894		
	R3P11 1.0006	144 DEG HAKE	324 DEG HAKE		
	R3P12 .9923	A144 .9046	A324 .9035		
	R3P13 1.0014	H144 .9127	H324 .9113		
	R3P14 1.0005	D144 .9082	D324 .9104		
	R3P15 1.0013	C144 .9448	C324 .9036		
	R3P16 1.0012	E144 .8615	E324 .8965		

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCM/MC= 1.4678	STAT XLM/MC= 1.5380			SPIKE	COWL		
S9 .8225	S20 .6993	TAP	XLM/MC	P/PU	IAP	XCM/MC	P/PU
R2P1 .8354	R4P1 .9304	S1	.9762	.9750	S14	.0340	.7696
R2P2 .8524	R4P2 .9523	S2	.0728	.9015	S15	.1860	.7643
R2P3 .8978	R4P3 .9582	S11	.0728	.9010	S16	.4150	.8319
R2P4 .9550	R4P4 .9605	S12	.0728	.8999	S17	.8470	.8160
R2P5 .9636	R4P5 .9624	S13	.0728	.9032	S18	1.1740	.8273
	R4P6 .9632	S3	.1408	.8562	S19	1.4590	.8282
	R4P7 .9648	S4	.4068	.7790	S20	1.5400	.6993
	R4P8 .9645	S5	.6428	.7835	S21	1.8270	.8119
	R4P9 .9642	S6	.8898	.7876	S22	2.7840	.8082
	R4P11 .9622	S7	1.0178	.7926	S23	3.2980	.8213
	R4P12 .9543	S8	1.1496	.8022	S26	5.2890	.8171
		S9	1.5128	.8225			
		S10	1.8488	.8158			
		S27	5.3000	.8245			
		S28	.6428	.9457			

SPIKE R6		COWL R5	
STAT XCM/MC= 3.5040	STAT XLM/MC= 3.3270		
S23 .8213	S23 .8213		
R6P1 .8737	R5P1 .8607		
R6P2 .8918	R5P2 .8633		
R6P3 .8880	R5P3 .8664		
R6P4 .8907	R5P4 .8684		
R6P5 .8941	R5P5 .8736		
R6P8 .9000	R5P6 .8791		
R6P9 .9025	R5P7 .8884		
R6P10 .9054	R5P8 .9062		
R6P11 .9076	R5P9 .9186		
	R5P10 .9218		
	R5P11 .9187		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	104	FLIGHT DATE	09/20/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	290.6 DEG K	MAX-MIN DIST	.0502
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9177 ATMOS	K-CIRCUMF.	.3760
START	3:39:10.002	INTERVAL	1.000	ENG. FACE RECOV	.9041	ENGINE M/M*	.6185	K-RADIAL	.0416
STOP	3:39:40.000	ENG COK RPM	5779.	ENG. FACE MACH NO	.3755	COWL M/M*	.5275		
				COWL LIP RECOV	.9090	ADDITIVE M/M*	.0909	K-DELTA	.0256
				MACH AT COWL LIP	.3507			K-A	.0672

SPIKE R1		COWL R3		STAT XCW/KC= 5.4830			
STAT XCW/KC=	.0728	STAT XCW/KC=	.0700	36 DEG KAKE	198 DEG KAKE		
S2	.9012	S14	.7686	A36	.8978	A198	.9087
R1P1	.9997	R3P1	.7635	H36	.9072	H198	.9139
R1P2	.9935	K3P2	.7631	C36	.9114	C198	.9247
R1P3	1.0006	K3P3	.7628	D36	.9125	D198	.9092
R1P4	.9889	K3P4	.7626	E36	.9093	E198	.8917
R1P5	.9866	K3P5	.7629	90 DEG KAKE	252 DEG KAKE		
R1P6	1.0008	K3P6	.7635	A90	.9050	A252	.8945
R1P7	.9893	K3P7	.9546	H90	.9139	H252	.8996
R1P8	1.0004	K3P8	.8689	C90	.9157	C252	.8986
R1P9	.9670	K3P9	.9427	D90	.9088	D252	.8975
		K3P10	1.0009	E90	.9000	E252	.8905
		K3P11	1.0007	144 DEG KAKE	324 DEG KAKE		
		K3P12	.9919	A144	.9053	A324	.9012
		K3P13	1.0013	H144	.9137	H324	.9095
		K3P14	1.0006	D144	.9068	D324	.9059
		K3P15	1.0014	C144	.8931	C324	.9020
		K3P16	1.0012	E144	.8794	E324	.8951

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/KC=	1.4678	STAT XCW/KC=	1.5380	SPIKE			COWL
S9	.8217	S20	.7030	XCW/KC	P/PO	IAP	XCW/KC
R2P1	.8366	K4P1	.9308	S1	.0762	.9749	S14
R2P2	.8558	K4P2	.9520	S2	.0728	.9012	S15
R2P3	.8999	K4P3	.9564	S11	.0728	.8999	S16
R2P4	.9552	K4P4	.9598	S12	.0728	.9006	S17
R2P5	.9628	K4P5	.9618	S13	.0728	.9018	S18
		K4P6	.9618	S3	.1408	.8550	S19
		K4P7	.9639	S4	.4068	.7780	S20
		K4P8	.9632	S5	.6428	.7829	S21
		K4P9	.9630	S6	.8898	.7869	S22
		K4P10	.9611	S7	1.0178	.7922	S23
		K4P11	.9605	S8	1.1448	.8024	S26
		K4P12	.9590	S9	1.5128	.8217	
				S10	1.8488	.8152	
				S27	5.3000	.8240	
				S28	.6428	.9456	

SPIKE R6		COWL R5	
STAT XCW/KC=	3.5040	STAT XCW/KC=	3.3270
S23	.8200	S23	.8200
R6P1	.8727	K5P1	.8605
R6P2	.8891	K5P2	.8632
R6P3	.8875	K5P3	.8656
R6P4	.8893	K5P4	.8673
R6P5	.8915	K5P5	.8726
R6P6	.9000	K5P6	.8782
R6P9	.9023	K5P7	.8871
R6P10	.9059	K5P8	.9007
R6P11	.9095	K5P9	.9189
		K5P10	.9205
		K5P11	.9164

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	105	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	290.6 DEG K	MAX-MIN DIST	.0505
START	3:41:50.000	FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9180 ATMOS	K-CIRCUMF.	.3649
STOP	3:42:20.000	INTERVAL	1.000	ENG. FACE MFCOV	.8977	ENGINE M/M*	.6289	K-RADIAL	.0417
		ENG CUM RPM	5883.	ENG. FACE MACH NO	.3878	COWL M/M*	.5433	K-DELTA	.0324
				COWL LIP MFCOV	.9049	ADDITIVE M/M*	.0856	K-A	.0741
				MACH AT COWL LIP	.3649				

SPIKE R1		COWL H3		STAT XCN/MCR 5.4830	
STAT XCN/MCR	.0728	STAT XCN/MCR	.0700	36 DEG HAKE	198 DEG HAKE
S2	.8955	S14	.7553	A36	.8417
R1P1	.9989	R3P1	.7497	H36	.9021
R1P2	1.0000	R3P2	.7444	C36	.9078
R1P3	1.0003	R3P3	.7496	D36	.9082
R1P4	.9977	R3P4	.7445	E36	.9043
R1P5	1.0003	R3P5	.7442	90 DEG HAKE	252 DEG HAKE
R1P6	1.0003	R3P6	.7505	A90	.9005
R1P7	1.0002	R3P7	.9444	H90	.9094
R1P8	1.0000	R3P8	.8773	C90	.9043
R1P9	.9972	R3P9	.9876	D90	.9024
		R3P10	1.0006	E90	.8946
		R3P11	1.0003	144 DEG HAKE	324 DEG HAKE
		R3P12	.9911	A144	.9021
		R3P13	1.0010	H144	.9117
		R3P14	1.0001	D144	.9021
		R3P15	1.0007	C144	.8870
		R3P16	1.0008	E144	.8719
				A324	.8947
				H324	.9020
				C324	.9000
				D324	.8955
				E324	.8891

SPIKE R2		COWL H4		STATIC PRESSURES			
STAT XCN/MCR	1.4678	STAT XCN/MCR	1.5380	SPIKE		COWL	
S9	.8105	S20	.6860	XCN/MCR	P/PO	TAP	XCN/MCR
R2P1	.8276	R4P1	.9237	TAP	S14	S14	P/PO
R2P2	.8468	R4P2	.9485	S1	.0762	S15	.0340
R2P3	.8927	R4P3	.9529	S2	.0728	S16	.1860
R2P4	.9508	R4P4	.9573	S11	.0728	S17	.7499
R2P5	.9617	R4P5	.9594	S12	.0728	S18	.8241
		R4P6	.9588	S13	.0728	S19	.8038
		R4P7	.9594	S3	.1408	S20	1.1740
		R4P8	.9610	S4	.4068	S21	.8166
		R4P9	.9604	S5	.6428	S22	1.5400
		R4P10	.9596	S6	.6898	S23	1.8270
		R4P11	.9576	S7	1.0178	S26	2.7840
		R4P12	.9559	S8	1.1496		3.2980
				S9	1.5128		.8083
				S10	1.8488		.8045
				S27	5.3000		
				S28	.6428		

SPIKE H6		COWL H5	
STAT XCN/MCR	3.5040	STAT XCN/MCR	3.3270
S23	.8083	S23	.8083
R6P1	.8651	H5P1	.8519
R6P2	.8828	H5P2	.8542
R6P3	.8805	H5P3	.8570
R6P4	.8832	H5P4	.8596
R6P5	.8848	H5P5	.8645
R6P6	.8919	H5P6	.8704
R6P9	.8956	H5P7	.8800
R6P10	.8995	H5P8	.9005
R6P11	.9012	H5P9	.9143
		H5P10	.9160
		H5P11	.9111

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	106	FLIGHT DATE	09/20/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	290.6 DEG K	MAX-MIN DIST	.0600
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9181 ATMOS	K-CIRCUMF.	.3440
START	3:43:26.002	INTERVAL	1.000	ENG. FACE RECOV	.8935	ENGINE M/M*	.6379	K-RADIAL	.0474
STOP	3:43:55.999	ENG CON RPM	5957.	ENG. FACE MACH NO	.3473	COWL M/M*	.5504	K-DELTA	.0251
				COWL LIP RECOV	.9011	ADDITIVE M/M*	.0875	K-A	.0725
				MACH AT COWL LIP	.3125				

SPIKE R1		COWL K3		STAT XCW/KC# 5.4830			
STAT XCW/KC#	.0728	STAT XCW/KC#	.0700	36 DEG MAKE	198 DEG MAKE		
S2	.8916	S14	.7459	A36	.8845	A198	.8969
R1P1	.9991	R3P1	.7407	H36	.8974	H198	.9041
R1P2	.9996	R3P2	.7398	C36	.9033	C198	.9190
R1P3	1.0001	R3P3	.7398	D36	.9054	D198	.8994
R1P4	.9976	R3P4	.7397	E36	.9007	E198	.8819
R1P5	1.0000	R3P5	.7397	90 DEG MAKE	252 DEG MAKE		
R1P6	1.0003	R3P6	.7414	A90	.8947	A252	.8828
R1P7	1.0002	R3P7	.9495	H90	.9067	H252	.8866
R1P8	.9998	R3P8	.8756	C90	.9069	C252	.8850
R1P9	.9970	R3P9	.9888	D90	.8986	D252	.8854
		R3P10	1.0003	E90	.8896	E252	.8751
		R3P11	.9999	144 DEG MAKE	324 DEG MAKE		
		R3P12	.9909	A144	.8929	A324	.8906
		R3P13	1.0005	H144	.9032	H324	.9006
		R3P14	.9995	D144	.8966	D324	.8968
		R3P15	1.0003	C144	.8810	C324	.8927
		R3P16	1.0005	E144	.8853	E324	.8834

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/KC#	1.4678	STAT XCW/KC#	1.5380	SPIKE		COWL	
S9	.8019	S20	.6699	XCW/KC	P/PU	TAP	P/PU
R2P1	.8194	R4P1	.9213	TAP			
R2P2	.8365	R4P2	.9467	S1	.0762	S14	.0340
R2P3	.8864	R4P3	.9522	S2	.0726	S15	.1860
R2P4	.9510	R4P4	.9555	S11	.0728	S16	.4150
R2P5	.9607	R4P5	.9573	S12	.0726	S17	.8470
		R4P6	.9576	S13	.0726	S18	1.1740
		R4P7	.9597	S3	.1408	S19	1.4590
		R4P8	.9606	S4	.4066	S20	1.5400
		R4P9	.9603	S5	.0426	S21	1.8270
		R4P10	.9583	S6	.8898	S22	2.7840
		R4P11	.9579	S7	1.0178	S23	3.2980
		R4P12	.9537	S8	1.1498	S26	5.2890
				S9	1.5128		.8019
				S10	1.8466		.7958
				S27	5.3000		.8054
				S28	.6426		.9403

SPIKE R6		COWL K5	
STAT XCW/KC#	3.5040	STAT XCW/KC#	3.3270
S23	.7998	S23	.7998
R6P1	.8586	R5P1	.8455
R6P2	.8776	R5P2	.8477
R6P3	.8744	R5P3	.8503
R6P4	.8781	R5P4	.8532
R6P5	.8807	R5P5	.8595
R6P6	.8887	R5P6	.8630
R6P9	.8913	R5P7	.8762
R6P10	.8950	R5P8	.8962
R6P11	.8985	R5P9	.9090
		R5P10	.9137
		R5P11	.9094

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	107	FLIGHT DATE	09/20/79	SPIKE PUS. DX/RC	.8582	AMBIENT TEMP	290.6 DEG K	MAX-MIN DIST	.0664
		FLIGHT NO.	0	BYPASS PUS.	CLOSED	AMBIENT PRESS	.9176 ATMUS	K=CIRCUMF.	.3143
START	3:45:20.001	INTERVAL	1.000	ENG. FACE RECOV	.8885	ENGINE M/M*	.6633	K=RADIAL	.0493
STOP	3:45:50.000	ENG CUR RPM	6114.	ENG. FACE MACH NO	.4160	COWL M/M*	.6532	K=DELTA	.0274
				COWL LIP RECOV	.8452	ADDITIVE M/M*	.61002	K=A	.0767
				MACH A! COWL LIP	.3859				

SPIKE R1		COWL K3		STAT XCM/RC= 5.4830			
STAT	XCM/RC= .0728	STAT	XCM/RC= .0700	36 DEG	RAKE	198 DEG	RAKE
S2	.8854	S14	.7301	A36	.8767	A198	.8805
R1P1	.9992	R3P1	.7247	B36	.8916	B198	.8973
R1P2	1.0001	R3P2	.7243	C36	.8980	C198	.9153
R1P3	1.0005	R3P3	.7239	D36	.8990	D198	.8927
R1P4	.9977	R3P4	.7242	E36	.8951	E198	.8724
R1P5	1.0006	R3P5	.7239	90 DEG RAKE		252 DEG	RAKE
R1P6	1.0005	R3P6	.7236	A90	.8864	A252	.8751
R1P7	1.0006	R3P7	.9462	B90	.9001	B252	.8810
R1P8	1.0003	R3P8	.8789	C90	.9001	C252	.8790
R1P9	.9976	R3P9	.9924	D90	.8933	D252	.8740
		R3P10	1.0007	E90	.8840	E252	.8642
		R3P11	1.0004	144 DEG RAKE		324 DEG	RAKE
		R3P12	.9911	A144	.8882	A324	.8842
		R3P13	1.0013	B144	.8980	B324	.8930
		R3P14	1.0005	D144	.8902	C324	.8910
		R3P15	1.0010	C144	.8733	D324	.8832
		R3P16	1.0007	E144	.8504	E324	.8700

SPIKE R2		COWL K4		STATIC PRESSURES					
STAT	XCM/RC= 1.0678	STAT	XLW/RC= 1.5380	SPIKE		COWL			
S9	.7870	S20	.6525	XCM/RC	P/PU	IAP	XCM/RC	P/PU	
R2P1	.8051	R4P1	.9157	S1	.0762	.9712	S14	.0340	.7301
R2P2	.8265	R4P2	.9423	S2	.0720	.8854	S15	.1860	.7245
R2P3	.8793	R4P3	.9491	S11	.0728	.8836	S16	.4150	.8044
R2P4	.9484	R4P4	.9536	S12	.0720	.8843	S17	.8470	.7811
R2P5	.9601	R4P5	.9555	S13	.0720	.8856	S18	1.1740	.7934
		R4P6	.9554	S3	.1408	.8307	S19	1.4590	.7946
		R4P7	.9578	S4	.4068	.7387	S20	1.5400	.6525
		R4P8	.9583	S5	.6428	.7433	S21	1.8270	.7735
		R4P9	.9587	S6	.8898	.7487	S22	2.7840	.7696
		R4P10	.9578	S7	1.0178	.7545	S23	3.2980	.7857
		R4P11	.9557	S8	1.1498	.7648	S26	5.2890	.7815
		R4P12	.9531	S9	1.5128	.7810			
				S10	1.8488	.7801			
				S27	5.3000	.7911			
				S28	.6428	.9371			

SPIKE R6		COWL K5	
STAT	XCM/RC= 3.5040	STAT	XLW/RC= 3.3270
S23	.7857	S23	.7857
R6P1	.8476	K5P1	.8342
R6P2	.8681	K5P2	.8363
R6P3	.8619	K5P3	.8361
R6P4	.8680	K5P4	.8430
R6P5	.8722	K5P5	.8493
R6P8	.8816	K5P6	.8530
R6P9	.8842	K5P7	.8660
R6P10	.8876	K5P8	.8892
R6P11	.8905	K5P9	.9032
		R5P10	.9074
		R5P11	.9022

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	108	FLIGHT DATE	09/20/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	290.6 DEG K	MAX=MIN DIST	.0685
		FLIGHT NO.	0	HYPASS POS.	CLOSED	AMBIENT PRESS	.9183 ATMUS	K=CIRCUMF.	.2917
START	3:47:15.000	INTERVAL	1.000	ENG. FACE REC'D	.8821	ENGINE M/M*	.6740	K=RADIAL	.0437
STOP	3:47:44.998	ENG CLK RPM	6182.	ENG. FACE MACH NO	.4264	COWL M/M*	.5698	K=DELTA	.0181
				COWL LIP REC'D	.8911	ADDITIVE M/M*	.1043	K=A	.0618
				MACH AT COWL LIP	.3936				

SPIKE R1		COWL W3		STAT XCW/KC= 5.4830	
STAT XCW/KC=	.0728	STAT XCW/KC=	.0700	36 DEG RAKE	198 DEG RAKE
S2	.8814	S14	.7203	A36	.8742 A198 .8873
R1P1	.9982	K3F1	.7152	B36	.8880 B198 .8926
R1P2	.9988	K3P2	.7145	C36	.8940 C198 .9113
R1P3	.9997	K3P3	.7147	D36	.8967 D198 .8862
R1P4	.9970	K3P4	.7144	E36	.8912 E198 .8653
R1P5	.9996	K3P5	.7143	90 DEG RAKE	252 DEG RAKE
R1P6	.9996	R3P6	.7164	A90	.8826 A252 .8719
R1P7	.9995	R3P7	.9449	R90	.8968 R252 .8757
R1P8	.9992	K3P8	.8876	C90	.8971 C252 .8784
R1P9	.9965	K3P9	.9948	D90	.8890 D252 .8717
		R3P10	1.0002	E90	.8787 E252 .8618
		R3P11	.9995	144 DEG RAKE	324 DEG RAKE
		R3P12	.9896	A144	.8788 A324 .8809
		R3P13	1.0003	B144	.8878 B324 .8893
		R3P14	.9997	D144	.8849 D324 .8848
		R3P15	1.0001	C144	.8679 C324 .8778
		R3P16	.9997	E144	.8509 E324 .8720

SPIKE R2		COWL W4		STATIC PRESSURES			
STAT XCW/KC=	1.4678	STAT XCW/KC=	1.5380	SPIKE		COWL	
S9	.7782	S20	.6417	XCW/KC	P/PU	IAP	XCW/KC P/PU
R2P1	.7978	R4P1	.9086	S1	.80762 .9697	S14	.0340 .7203
R2P2	.8223	R4P2	.9378	S2	.0728 .8814	S15	.1860 .7144
R2P3	.8787	R4P3	.9453	S11	.0728 .8768	S16	.4150 .7991
R2P4	.9491	R4P4	.9488	S12	.0728 .8807	S17	.8470 .7728
R2P5	.9565	R4P5	.9509	S13	.0728 .8824	S18	1.1740 .7851
		R4P6	.9526	S3	.1408 .8245	S19	1.4590 .7879
		R4P7	.9539	S4	.4068 .7291	S20	1.5400 .6417
		R4P8	.9541	S5	.6428 .7333	S21	1.8270 .7642
		R4P9	.9549	S6	.8898 .7390	S22	2.7840 .7606
		R4P10	.9558	S7	1.0178 .7447	S23	3.2980 .7773
		R4P11	.9549	S8	1.1498 .7556	S26	5.2890 .7732
		R4P12	.9522	S9	1.5128 .7782		
				S10	1.8488 .7713		
				S27	5.3000 .7831		
				S28	.6428 .9349		

SPIKE R6		COWL W5	
STAT XCW/KC=	3.5040	STAT XCW/KC=	3.3270
S23	.7773	S23	.7773
R6P1	.8390	R5P1	.8276
R6P2	.8622	R5P2	.8301
R6P3	.8585	R5P3	.8326
R6P4	.8620	R5P4	.8349
R6P5	.8650	R5P5	.8418
R6P8	.8756	R5P6	.8468
R6P9	.8785	R5P7	.8602
R6P10	.8828	R5P8	.8837
R6P11	.8880	R5P9	.9015
		R5P10	.9067
		R5P11	.8978

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	109	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	291.7 DEG K	MAX-MIN DIST	.0706
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	0.9177 ATMUS	K-CIRCUMF.	.2653
START	3:48:40.000	INTERVAL	1.000	ENG. FACE REC'D	.8778	ENGINE M/M#	.6921	K-RADIAL	.0469
STOP	3:49:10.000	ENG COM RPM	6314.	ENG. FACE MACH NO	.4374	COWL M/M#	.5765	K-DELTA	.0107
				COWL LIP REC'D	.8873	ADDITIVE M/M#	.1156	K-A	.0576
				MACH AT COWL LIP	.4014				

SPIKE R1		COWL M3		STAT XCW/RCE 5.4830	
STAT XCW/RCE	.0728	STAT XCW/RCE	.0700	36 DEG HAKE	198 DEG HAKE
S2	.8777	S14	.7104	A36	.8692 A198 .8736
R1P1	.9988	R3P1	.7056	H36	.8814 B198 .8838
R1P2	.9997	R3P2	.7050	C36	.8928 C198 .9046
R1P3	1.0002	R3P3	.7054	D36	.8937 D198 .8830
R1P4	.9973	R3P4	.7054	E36	.8870 E198 .8634
R1P5	1.0002	R3P5	.7055	90 DEG HAKE	252 DEG HAKE
R1P6	1.0002	R3P6	.7072	A90	.8753 A252 .8708
R1P7	1.0003	R3P7	.9431	H90	.8908 B252 .8808
R1P8	.9999	R3P8	.8837	C90	.8918 C252 .8783
R1P9	.9971	R3P9	.9958	D90	.8823 D252 .8737
		R3P10	1.0006	E90	.8731 E252 .8589
		R3P11	1.0002	144 DEG HAKE	324 DEG HAKE
		R3P12	.9896	A144	.8787 A324 .8745
		R3P13	1.0008	H144	.8901 B324 .8818
		R3P14	1.0000	D144	.8787 C324 .8798
		R3P15	1.0005	C144	.8606 D324 .8734
		R3P16	1.0004	E144	.8426 E324 .8667

SPIKE R2		COWL M4		STATIC PRESSURES			
STAT XCW/RCE	1.4678	STAT XCW/RCE	1.5386	SPIKE	COWL		
S9	.7692	S20	.6282	TAP	XCW/RCE	P/PO	IAP
R2P1	.7897	H4P1	.9051	S1	.8762	.9695	S14
R2P2	.8136	H4P2	.9374	S2	.8728	.8777	S15
R2P3	.8755	H4P3	.9443	S11	.8728	.8732	S16
R2P4	.9480	H4P4	.9480	S12	.8728	.8743	S17
R2P5	.9547	H4P5	.9509	S13	.8728	.8786	S18
		H4P6	.9519	S3	.1468	.8184	S19
		H4P7	.9529	S4	.4068	.7197	S20
		H4P8	.9545	S5	.6428	.7233	S21
		H4P9	.9543	S6	.8898	.7289	S22
		H4P10	.9548	S7	1.0178	.7351	S23
		H4P11	.9537	S8	1.1498	.7453	S26
		H4P12	.9523	S9	1.5128	.7642	
				S10	1.8488	.7618	
				S27	5.3000	.7747	
				S28	.6428	.9333	

SPIKE R6		COWL M5	
STAT XCW/RCE	3.5040	STAT XCW/RCE	3.3276
S23	.7673	S23	.7673
H6P1	.8372	H5P1	.8207
H6P2	.8568	H5P2	.8227
H6P3	.8537	H5P3	.8259
H6P4	.8566	H5P4	.8295
H6P5	.8598	H5P5	.8339
H6P8	.8704	H5P6	.8415
H6P9	.8733	H5P7	.8537
H6P10	.8770	H5P8	.8742
H6P11	.8825	H5P9	.8977
		H5P10	.9043
		H5P11	.9463

YF-12 INLET NOISE SUPPRESSION STUDY
 RUN 110 FLIGHT DATE 09/20/79 SPIKE POS. DX/RC .8582 AMBIENT TEMP 291.7 DEG K
 FLIGHT NO. 0 BYPASS POS. CLOSED AMBIENT PRESS .9181 ATMOS
 START 3:50:25.004 INTERVAL 1.000 ENG. FACE RECOV .8750 ENGINE M/M* .7009
 STOP 3:50:55.000 ENG CUM RPM 6381. CUMV LIP RECOV .4451 CUMV M/M* .5802
 MACH AT CUMV LIP .4058 ADDITIVE M/M* .1207
 MAX-MIN DIST .0719
 K-CIRCUMF. .2535
 K-RADIAL .0440
 K-DELTA .0077
 K-A .0517

SPIKE R1		CUMV M3		STAT XCW/RC= 5.4830	
STAT XCW/RC= .0728	STAT XCW/RC= .0700	36 DEG MAKE	198 DEG MAKE		
S2 .8752	S14 .7053	A36 .8638	A198 .8740		
R1P1 .9986	R3P1 .7001	R36 .8820	R198 .8805		
R1P2 .9993	R3P2 .6996	C36 .8404	C198 .9028		
R1P3 .9998	R3P3 .6996	D36 .8436	D198 .8788		
R1P4 .9970	R3P4 .6994	E36 .8847	E198 .8635		
R1P5 .9999	R3P5 .6996	90 DEG MAKE	252 DEG MAKE		
R1P6 .9998	R3P6 .7018	A90 .8752	A252 .8707		
R1P7 .9997	R3P7 .9412	H90 .8894	H252 .8805		
R1P8 .9996	R3P8 .8925	C90 .8420	C252 .8761		
R1P9 .9968	R3P9 .9968	D90 .8823	D252 .8726		
	R3P10 1.0004	E90 .8704	E252 .8559		
	R3P11 .9994	144 DEG MAKE	324 DEG MAKE		
	R3P12 .9891	A144 .8751	A324 .8730		
	R3P13 1.0007	H144 .8834	H324 .8818		
	R3P14 .9999	D144 .8725	D324 .8766		
	R3P15 1.0004	C144 .8562	C324 .8699		
	R3P16 1.0000	E144 .8399	E324 .8603		

SPIKE R2		CUMV M4		STATIC PRESSURES			
STAT XCW/RC= 1.4678	STAT XCW/RC= 1.5380	TAP	SPIKE	P/PO	TAP	CUMV	P/PO
S9 .7634	S20 .6201	S1	XCW/RC	P/PO	S14	XCW/RC	P/PO
R2P1 .7827	R4P1 .9049	S2	.8752	.9686	S15	.1860	.6990
R2P2 .8086	R4P2 .9373	S11	.8728	.8709	S16	.4150	.7883
R2P3 .8725	R4P3 .9426	S12	.8726	.8720	S17	.8470	.7582
R2P4 .9487	R4P4 .9475	S13	.8728	.8763	S18	1.1740	.7709
R2P5 .9547	R4P5 .9494	S3	.1408	.8148	S19	1.4590	.7741
	R4P6 .9509	S4	.4000	.7137	S20	1.5400	.6201
	R4P7 .9527	S5	.6426	.7168	S21	1.8270	.7487
	R4P8 .9538	S6	.8898	.7234	S22	2.7840	.7447
	R4P9 .9552	S7	1.0178	.7295	S23	3.2980	.7617
	R4P10 .9554	S8	1.1498	.7397	S26	5.2890	.7588
	R4P11 .9541	S9	1.5120	.7634			
	R4P12 .9521	S10	1.8488	.7560			

SPIKE R6		CUMV M5	
STAT XCW/RC= 3.5040	STAT XCW/RC= 3.3270	S23	.7617
S23 .7617	R5P1 .8158	R5P2	.8186
R6P1 .8306	R5P3 .8216	R5P4	.8242
R6P2 .8540	R5P5 .8241	R5P6	.8380
R6P3 .8498	R5P7 .8498	R5P8	.8757
R6P4 .8539	R5P9 .8976	R5P10	.9006
R6P5 .8585	R5P11 .8924		
R6P8 .8690			
R6P9 .8717			
R6P10 .8763			
R6P11 .8821			

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	111	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.85M2	AMBIENT TEMP	290.6 DEG K	MAX=MIN DIST	.0624
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9186 ATMOS	K=CIRCUMF.	.2369
START	3:54:20.002	INTERVAL	1.000	ENG. FACE RECOV	.8/11	ENGINE M/M*	.7151	K=RADIAL	.0459
STOP	3:54:49.999	ENG COM RPM	6503.	ENG. FACE MACH NO	.4527	COWL M/M*	.5873		
				COWL LIP RECOV	.8817	ADDITIVE M/M*	.127A	K=DELTA	.0054
				MACH AT COWL LIP	.4140			K=A	.0512

SPIKE R1		COWL N3		STAT XCN/RC= 5.4830	
STAT XCN/RC=	.0728	STAT XCN/RC=	.0700	36 DEG MAKE	198 DEG MAKE
S2	.8711	S14	.6961	A36	.8601
R1P1	.9979	R3P1	.6910	B36	.8768
R1P2	.9989	R3P2	.6906	C36	.8802
R1P3	.9993	R3P3	.6904	D36	.8897
R1P4	.9965	R3P4	.6905	E36	.8824
R1P5	.9994	R3P5	.6902	90 DEG MAKE	252 DEG MAKE
R1P6	.9994	R3P6	.6941	A90	.8753
R1P7	.9993	R3P7	.6941	H90	.8891
R1P8	.9991	R3P8	.6919	C90	.8886
R1P9	.9965	R3P9	.6983	D90	.8772
		R3P10	1.0001	E90	.8663
		R3P11	.9996	144 DEG MAKE	324 DEG MAKE
		R3P12	.9895	A144	.8679
		R3P13	1.0002	B144	.8841
		R3P14	.9994	D144	.8771
		R3P15	.9999	C144	.8562
		R3P16	.9997	E144	.8354
				A324	.8680
				H324	.8810
				D324	.8767
				C324	.8679
				E324	.8564

SPIKE R2		COWL N4		STATIC PRESSURES			
STAT XCN/RC=	1.4678	STAT XCN/RC=	1.5380	SPIKE		COWL	
S9	.7561	S20	.6140	XCN/RC	P/PU	IAP	XCN/RC
R2P1	.7756	R4P1	.9040	TAP		IAP	P/PU
R2P2	.8001	R4P2	.9357	S1	.0762	S14	.0340
R2P3	.8659	R4P3	.9423	S2	.0728	S15	.1860
R2P4	.9489	R4P4	.9475	S11	.0728	S16	.4150
R2P5	.9547	R4P5	.9515	S12	.0728	S17	.8470
		R4P6	.9523	S13	.0728	S18	1.1740
		R4P7	.9543	S3	.1406	S19	1.4590
		R4P8	.9560	S4	.4068	S20	1.5400
		R4P9	.9571	S5	.6428	S21	1.8270
		R4P10	.9565	S6	.8898	S22	2.7840
		R4P11	.9557	S7	1.0178	S23	3.2980
		R4P12	.9521	S8	1.1498	S26	5.2890
				S9	1.5128		.7501
				S10	1.8488		.7481
				S27	5.3000		.7621
				S28	.0428		.9299

SPIKE R6		COWL N5	
STAT XCN/RC=	3.5040	STAT XCN/RC=	3.3270
S23	.7541	S23	.7541
R6P1	.8229	R5P1	.8098
R6P2	.8489	R5P2	.8125
R6P3	.8435	R5P3	.8163
R6P4	.8506	R5P4	.8187
R6P5	.8497	R5P5	.8245
R6P8	.8640	R5P6	.8326
R6P9	.8665	R5P7	.8472
R6P10	.8708	R5P8	.8728
R6P11	.8780	R5P9	.8933
		R5P10	.9063
		R5P11	.8966

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	112	FLIGHT DATE	09/20/79	SPIKE POS. OX/RC	.8582	AMBIENT TEMP	290.6 DEG K	MAX-MIN DIST	.0727
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9184 ATMOS	K-CIRCUMF.	.2350
START	3:57:50.000	INTERVAL	1.000	ENG. FALLE REC'D	.8687	ENGINE M/M*	.7243	K-RADIAL	.0460
STOP	3:58:19.99H	ENG COU RPM	6597.	ENG. FACE MACH NO	.4630	COML M/M*	.5891		
				COML LIP REC'D	.8790	ADDITIVE M/M*	.1352	K-DELTA	.0118
				MACH AT COML LIP	.4172			K-A	.0578

SPIKE R1		COML R3		STAT XCM/RC= 5.4850			
STAT XCM/RC=	.0728	STAT XCM/RC=	.0700	36 DEG HAKE	198 DEG HAKE		
S2	.8691	S14	.6905	A36	.8569	A198	.8638
R1P1	.9984	R3P1	.6854	B36	.8742	E198	.8710
R1P2	.9994	R3P2	.6852	C36	.8816	L198	.8952
R1P3	1.0000	R3P3	.6851	D36	.8852	O198	.8728
R1P4	.9974	R3P4	.6849	E36	.8780	E198	.8576
R1P5	1.0000	R3P5	.6850	90 DEG HAKE	252 DEG HAKE		
R1P6	1.0001	R3P6	.6873	A90	.8668	A252	.8671
R1P7	1.0001	R3P7	.9389	B90	.8827	B252	.8742
R1P8	.9997	R3P8	.8890	C90	.8843	C252	.8646
R1P9	.9970	R3P9	.9970	D90	.8743	D252	.8629
		R3P10	1.0006	E90	.8826	E252	.8456
		R3P11	1.0002	144 DEG HAKE	324 DEG HAKE		
		R3P12	.9893	A144	.8654	A324	.8640
		R3P13	1.0008	B144	.8824	B324	.8748
		R3P14	1.0001	D144	.8746	D324	.8712
		R3P15	1.0005	C144	.8533	D324	.8630
		R3P16	1.0003	E144	.8526	E324	.8541

SPIKE R2		COML R4		STATIC PRESSURES			
STAT XCM/RC=	1.4678	STAT XCM/RC=	1.5340	SPIKE		COML	
S9	.7492	S20	.5975	XCM/RC	P/PO	XCM/RC	P/PO
R2P1	.7702	R4P1	.8974	S1	.0762	S14	.0340
R2P2	.7977	R4P2	.9326	S2	.0728	S15	.1860
R2P3	.8624	R4P3	.9400	S11	.0728	S16	.4150
R2P4	.9476	R4P4	.9441	S12	.0728	S17	.8470
R2P5	.9529	R4P5	.9466	S13	.0728	S18	1.1740
		R4P6	.9476	S5	.1408	S19	1.4590
		R4P7	.9507	S4	.4068	S20	1.5400
		R4P8	.9523	S5	.6428	S21	1.8270
		R4P9	.9527	S6	.8898	S22	2.7640
		R4P10	.9537	S7	1.0178	S23	3.2980
		R4P11	.9536	S8	1.1498	S26	5.2890
		R4P12	.9518	S9	1.5128		
				S10	1.8488		
				S27	5.3000		
				S28	.6428		

SPIKE R6		COML R5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.7472	S23	.7472
R6P1	.8213	R5P1	.8052
R6P2	.8447	R5P2	.8075
R6P3	.8383	R5P3	.8108
R6P4	.8418	R5P4	.8124
R6P5	.8452	R5P5	.8206
R6P8	.8584	R5P6	.8276
R6P9	.8619	R5P7	.8411
R6P10	.8682	R5P8	.8708
R6P11	.8724	R5P9	.8911
		R5P10	.8986
		R5P11	.8874

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	113	FLIGHT DATE	09/20/79	SPIKE POS. UX/RC	.8582	AMBIENT TEMP	291.1 DEG K	MAX-MIN DIST	.0928
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9194 ATMUS	K-CIRCUMF.	.2264
START	3:59:50.003	INTERVAL	1.000	ENG. FACE RECOV	.8657	ENGINE M/M*	.7311	K-RADIAL	.0499
STOP	4: 01:19.999	ENG COH RPM	6691.	ENG. FACE MACH NO	.4675	COWL M/M*	.5931	K-DELTA	.0100
				COWL LIP RECOV	.8763	ADDITIVE M/M*	.1390	K-A	.0599
				MACH AT COWL LIP	.4224				

SPIKE R1		COWL K3		STAT XCW/RC= 5.4830			
STAT XCW/RC=	.0728	STAT XCW/RC=	.0700	36 DEG MAKE	198 DEG MAKE		
S2	.8656	S14	.6846	A36	.8528	A198	.8653
R1P1	.9974	R3P1	.6789	M36	.8715	H198	.8782
R1P2	.9987	R3P2	.6785	C36	.8823	C198	.9048
R1P3	.9984	R3P3	.6785	D36	.8836	D198	.8745
R1P4	.9960	R3P4	.6785	E36	.8777	E198	.8504
R1P5	.9976	R3P5	.6788	90 DEG MAKE		252 DEG MAKE	
R1P6	.9979	R3P6	.6828	A90	.8802	A252	.8542
R1P7	.9988	R3P7	.9374	H90	.8761	H252	.8657
R1P8	.9987	R3P8	.9169	C90	.8801	C252	.8668
R1P9	.9960	R3P9	.9979	D90	.8713	D252	.8625
		R3P10	.4495	E90	.8595	E252	.8457
		R3P11	.9990	144 DEG MAKE		324 DEG MAKE	
		R3P12	.9882	A144	.8658	A324	.8603
		R3P13	.9998	H144	.8722	H324	.8737
		R3P14	.9990	D144	.8802	C324	.8602
		R3P15	.9994	C144	.8453	D324	.8606
		R3P16	.9989	E144	.8244	E324	.8516

SPIKE K2		COWL K4		STATIC PRESSURES				
STAT XCW/RC=	1.4678	STAT XCW/RC=	1.5340	SPIKE		COWL		
S9	.7439	S20	.5875	XCW/RC	P/P0	IAP	P/P0	
R2P1	.7647	R4P1	.8966	S1	.0762	.9650	S14	.0340
R2P2	.7926	R4P2	.9311	S2	.0728	.8656	S15	.1860
R2P3	.8631	R4P3	.9400	S11	.0728	.8624	S16	.4150
R2P4	.9497	R4P4	.9431	S12	.0728	.8644	S17	.8470
R2P5	.9529	R4P5	.9456	S13	.0728	.8664	S18	1.1740
		R4P6	.9471	S3	.1408	.8019	S19	1.4590
		R4P7	.9503	S4	.4068	.6936	S20	1.5400
		R4P8	.9517	S5	.0428	.6953	S21	1.8270
		R4P9	.9526	S6	.8898	.7029	S22	2.7840
		R4P10	.9534	S7	1.0178	.7083	S23	3.2980
		R4P11	.9531	S8	1.1448	.7189	S26	5.2890
		R4P12	.9514	S9	1.5128	.7439		
				S10	1.8488	.7355		
				S27	5.3000	.7506		
				S28	.6428	.9270		

SPIKE K6		COWL K5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.7415	S23	.7415
K6P1	.8151	K5P1	.8009
K6P2	.8396	K5P2	.8033
K6P3	.8372	K5P3	.8062
K6P4	.8416	K5P4	.8092
K6P5	.8442	K5P5	.8153
K6P8	.8508	K5P6	.8234
K6P9	.8599	K5P7	.8403
K6P10	.8652	K5P8	.8674
K6P11	.8708	K5P9	.8844
		K5P10	.8994
		K5P11	.8872

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	115	FLIGHT DATE	09/20/79	SPIKE POS. UX/MC	.4558	AMBIENT TEMP	292.2 DEG K	MAX-MIN DIST	.0450
		FLIGHT NU.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9188 ATMOS	K-CIRCUMF.	.6493
START	41 71 5.000	INTERVAL	1.000	ENG. FACE MECOV	.9667	ENGINE M/M*	.6344	K-RADIAL	.1370
STOP	41 7135.000	ENG CLK RPM	4197.	ENG. FACE MACH NO	.2498	COWL M/M*	.2828	K-DELTA	.0397
				COWL LIP MECOV	.9827	ADDITIVE M/M*	.3516	K-A	.1767
				MACH AT COWL LIP	.1515				

SPIKE R1		COWL M3		STAT XCM/MC= 5.4830			
STAT XCM/RC=	.4752	STAT XCM/RC=	.0700	30 DEG MAKE	198 DEG MAKE		
S2	.9725	S14	.9642	A36	.9705	A198	.9698
R1P1	1.0006	M3P1	.9644	B36	.9654	B198	.9684
R1P2	1.0007	R3P2	.9645	C36	.9561	C198	.9721
R1P3	1.0010	M3P3	.9643	D36	.9487	D198	.9554
R1P4	1.0004	M3P4	.9644	E36	.9438	E198	.9477
R1P5	1.0010	R3P5	.9692	90 DEG MAKE	252 DEG MAKE		
R1P6	1.0009	M3P6	.9693	A90	.9873	A252	.9824
R1P7	1.0009	R3P7	.9939	H90	.9850	B252	.9795
R1P8	1.0007	R3P8	.9698	C90	.9759	C252	.9701
R1P9	.9990	M3P9	.9756	D90	.9671	D252	.9626
		M3P10	.9890	E90	.9627	E252	.9575
		M3P11	1.0005	180 DEG MAKE	324 DEG MAKE		
		M3P12	.9992	A144	.9746	A324	.9711
		R3P13	1.0024	B144	.9746	B324	.9713
		R3P14	1.0019	D144	.9655	C324	.9652
		M3P15	1.0023	C144	.9615	D324	.9640
		M3P16	1.0023	E144	.9575	E324	.9618

SPIKE R2		COWL M4		STATIC PRESSURES					
STAT XCM/RC=	1.0702	STAT XCM/RC=	1.5380		SPIKE			COWL	
S9	.9640	S20	.9377	TAP	XCM/RC	P/PO	IAP	XCM/RC	P/PO
M2P1	.9804	M4P1	.9930	S1	.3262	.9743	S14	.0340	.9692
M2P2	.9893	M4P2	.9956	S2	.4752	.9725	S15	.1860	.9667
M2P3	.9959	M4P3	.9958	S11	.4752	.9709	S16	.4150	.9721
M2P4	.9954	M4P4	.9965	S12	.4752	.9709	S17	.8470	.9767
M2P5	.9875	M4P5	.9963	S13	.4752	.9724	S18	1.1740	.9709
		M4P6	.9968	S3	.5432	.9743	S19	1.4590	.9665
		M4P7	.9973	S4	.8042	.9698	S20	1.5400	.9377
		M4P8	.9978	S5	1.0452	.9666	S21	1.8270	.9630
		M4P9	.9982	S6	1.2422	.9670	S22	2.7840	.9053
		M4P10	.9984	S7	1.4202	.9660	S23	3.2980	.9217
		M4P11	.9993	S8	1.5522	.9631	S26	5.2890	.9233
		M4P12	.9995	S9	1.9152	.9640			
				S10	2.2512	.9586			
				S27	5.3000	.9265			
				S28	1.0452	.9911			

SPIKE R6		COWL M5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.9217	S23	.9217
R6P1	.9508	M5P1	.9473
R6P2	.9628	M5P2	.9505
R6P3	.9630	M5P3	.9539
M6P4	.9672	M5P4	.9546
R6P5	.9704	M5P5	.9577
M6P8	.9838	M5P6	.9638
R6P9	.9826	M5P7	.9714
M6P10	.9782	M5P8	.9911
R6P11	.9644	M5P9	.9913
		M5P10	.9900
		M5P11	.9888

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	116	FLIGHT DATE	09/20/79	SPIKE POS. UX/RX	.4558	AMBIENT TEMP	292.2 DEG K	MAX-MIN DIST	.0576
		FLIGHT NO.	0	HYPASS POS. OPEN		AMBIENT PRESS	.9191 ATMUS	K=CIRCUMF.	.5902
START	4: 9:10.001	INTERVAL	1.000	ENG. FACE REC'D	.9584	ENGINE M/M	.6643	K=RADIAL	.1727
STOP	4: 9:40.000	ENG CLK RPM	4577.	ENG. FACE MACH NO	.2654	COWL M/M	.3115	K=DELTA	.0492
				COWL LIP REC'D	.9769	ADDITIVE M/M	.3529	K=A	.2819
				MACH AT COWL LIP	.1460				

SPIKE R1		COWL K3		STAT XCW/RX= 5.4830	
STAT XCW/RX=	.4752	STAT XCW/RX=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9646	S14	.9604	A36	.9622
R1P1	1.0004	R3P1	.9601	B36	.9581
R1P2	1.0005	R3P2	.9600	C36	.9418
R1P3	1.0009	R3P3	.9600	D36	.9349
R1P4	1.0000	R3P4	.9598	E36	.9295
R1P5	1.0011	R3P5	.9597	90 DEG HAKE 252 DEG HAKE	
R1P6	1.0010	R3P6	.9598	A90	.9847
R1P7	1.0009	R3P7	.9416	H90	.9787
R1P8	1.0009	R3P8	.9609	C90	.9656
R1P9	.9982	R3P9	.9696	D90	.9572
		R3P10	.9878	E90	.9504
		R3P11	1.0003	144 DEG HAKE 324 DEG HAKE	
		R3P12	.9983	A144	.9758
		R3P13	1.0019	H144	.9704
		R3P14	1.0016	D144	.9558
		R3P15	1.0019	C144	.9502
		R3P16	1.0018	E144	.9446

SPIKE K2		COWL K4		STATIC PRESSURES				
STAT XCW/RX=	1.8702	STAT XCW/RX=	1.5380	SPIKE		COWL		
S9	.9542	S20	.9200	XCW/RX	P/PO	IAP	P/PO	
R2P1	.9743	K4P1	.9894	S1	.9262	.9621	S14	.0340
R2P2	.9860	K4P2	.9933	S2	.4752	.9646	S15	.1860
R2P3	.9946	K4P3	.9942	S11	.4752	.9627	S16	.4150
R2P4	.9938	K4P4	.9948	S12	.4752	.9628	S17	.8470
R2P5	.9845	K4P5	.9952	S13	.4752	.9653	S18	1.1740
		K4P6	.9952	S3	.5432	.9672	S19	1.4590
		K4P7	.9955	S4	.8042	.9616	S20	1.5400
		K4P8	.9962	S5	1.0452	.9576	S21	1.8270
		K4P9	.9964	S6	1.2922	.9580	S22	2.7840
		K4P10	.9975	S7	1.4202	.9562	S23	3.2980
		K4P11	.9980	S8	1.5522	.9525	S26	5.2890
		K4P12	.9987	S9	1.9152	.9542		.9007

SPIKE K6		COWL K5		STAT XCW/RX= 3.3270	
STAT XCW/RX=	3.5040	STAT XCW/RX=	3.3270	S24	1.0452
S23	.8981	S23	.8481	S25	.9843
K6P1	.9369	K5P1	.9317		
K6P2	.9516	K5P2	.9355		
K6P3	.9519	K5P3	.9347		
K6P4	.9569	K5P4	.9424		
K6P5	.9622	K5P5	.9445		
K6P8	.9800	K5P6	.9519		
K6P9	.9785	K5P7	.9647		
K6P10	.9706	K5P8	.9841		
K6P11	.9550	K5P9	.9881		
		K5P10	.9863		
		K5P11	.9853		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	118	FLIGHT DATE	09/20/79	SPIKE POS. DX/HC	.4558	AMBIENT TEMP	292.2 DEG K	MAX-MIN DIST	.1025
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9185 ATMOS	K-CIRCUMF.	.4409
START	4:13:10.000	INTERVAL	1.000	ENG. FACE RECOV	.9230	ENGINE M/M*	.7583	K-RADIAL	.2278
STOP	4:13:40.000	ENG COM RPM	5634.	ENG. FACE MACH NO	.3912	COWL M/M*	.3943		
				COWL LIP RECOV	.9593	ADDITIVE M/M*	.3640	K-DELTA	.0635
				MACH AT COWL LIP	.1899			K-A	.2913

SPIKE R1		COWL H3		STAT XCW/HC= 5.4830	
STAT XCW/RC=	.4752	STAT XCW/HC=	.0700	36 DEG RAKE	198 DEG RAKE
S2	.9390	S14	.9320	A36	.9331 A198
R1P1	.9998	R3P1	.9319	B36	.9239 B198
R1P2	1.0001	R3P2	.9323	C36	.9026 C198
R1P3	1.0000	R3P3	.9323	D36	.8859 D198
R1P4	.9992	R3P4	.9322	E36	.8751 E198
R1P5	1.0000	R3P5	.9322	90 DEG RAKE	252 DEG RAKE
R1P6	1.0000	R3P6	.9323	A90	.9088 A252
R1P7	1.0000	R3P7	.9848	B90	.9561 B252
R1P8	1.0004	R3P8	.9325	C90	.9357 C252
R1P9	.9950	R3P9	.9389	D90	.9230 D252
		R3P10	.9587	E90	.9155 E252
		R3P11	.9890	144 DEG RAKE	324 DEG RAKE
		R3P12	.9945	A144	.9619 A324
		R3P13	1.0021	B144	.9505 B324
		R3P14	1.0013	C144	.9171 C324
		R3P15	1.0020	D144	.9007 D324
		R3P16	1.0018	E144	.9003 E324

SPIKE R2		COWL H4		STATIC PRESSURES			
STAT XCW/RC=	1.8702	STAT XCW/HC=	1.5380				
S9	.9217	S20	.8649	TAP	SPIKE	COWL	
R2P1	.9574	R4P1	.9791		XCW/HC	P/PU	TAP
R2P2	.9765	R4P2	.9864	S1	.5262	.9365	S14
R2P3	.9890	R4P3	.9871	S2	.4752	.9390	S15
R2P4	.9878	R4P4	.9882	S11	.4752	.9377	S16
R2P5	.9668	R4P5	.9893	S12	.4752	.9384	S17
		R4P6	.9890	S13	.4752	.9413	S18
		R4P7	.9901	S3	.5432	.9449	S19
		R4P8	.9904	S4	.8092	.9359	S20
		R4P9	.9916	S5	1.0452	.9293	S21
		R4P10	.9930	S6	1.2922	.9300	S22
		R4P11	.9939	S7	1.4202	.9269	S23
		R4P12	.9943	S8	1.5522	.9200	S26
				S9	1.9152	.9217	
				S10	2.2512	.9101	
				S27	5.3000	.8323	
				S28	1.0452	.9821	

SPIKE R6		COWL H5	
STAT XCW/RC=	3.5040	STAT XCW/HC=	3.3270
S23	.8190	S23	.8190
R6P1	.8899	R5P1	.8771
R6P2	.9141	R5P2	.8809
R6P3	.9170	R5P3	.8880
R6P4	.9263	R5P4	.8907
R6P5	.9345	R5P5	.8992
R6P8	.9660	R5P6	.9109
R6P9	.9632	R5P7	.9403
R6P10	.9512	R5P8	.9762
R6P11	.9216	R5P9	.9805
		R5P10	.9764
		R5P11	.9743

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	119	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.4558	AMBIENT TEMP	292.2 DEG K	MAX-MIN DIST	.1325
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9184 ATMOS	K-CIRCUMF.	.3337
START	4:15:11.001	INTERVAL	1.000	ENG. FALC RECOV	.9051	ENGINE M/M*	.8575	K-RADIAL	.2154
STOP	4:15:41.000	ENG CUM RPM	6193.	ENG. FALC MACH NO	.4462	COWL M/M*	.4240		
				COWL LIP RECOV	.9503	ADDITIVE M/M*	.4334	K-DELTA	.0588
				MACH AT COWL LIP	.2070			K-A	.2742

SPIKE R1		COWL R3		STAT XCW/RC= 5.4830	
STAT XCW/RC=	.4752	STAT XCW/RC=	.0700	36 DEG WAKE	198 DEG WAKE
S2	.9268	S14	.9179	A36	.9245 A198
R1P1	.9998	R3P1	.9181	B36	.9089 B198
R1P2	.9999	R3P2	.9179	C36	.8786 C198
R1P3	1.0002	R3P3	.9180	D36	.8620 D198
R1P4	.9991	R3P4	.9179	E36	.8495 E198
R1P5	1.0004	R3P5	.9176	90 DEG WAKE	252 DEG WAKE
R1P6	1.0005	R3P6	.9178	A90	.9652 A252
R1P7	1.0004	R3P7	.9820	H90	.9553 H252
R1P8	1.0001	R3P8	.9186	C90	.9250 C252
R1P9	.9938	R3P9	.9275	D90	.9056 D252
		R3P10	.9539	E90	.8695 E252
		R3P11	.9917	144 DEG WAKE	324 DEG WAKE
		R3P12	.9936	A144	.9497 A324
		R3P13	1.0016	H144	.9352 H324
		R3P14	1.0007	D144	.8973 D324
		R3P15	1.0014	C144	.8683 C324
		R3P16	1.0013	E144	.8792 E324

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/RC=	1.8702	STAT XCW/RC=	1.5380	SPIKE		COWL	
S9	.9045	S20	.8355	XCW/RC	P/P0	IAP	XCW/RC
R2P1	.9476	R4P1	.9750	TAP			P/P0
R2P2	.9709	R4P2	.9833	S1	.3262	.9258	S14
R2P3	.9862	R4P3	.9845	S2	.4752	.9268	S15
R2P4	.9841	R4P4	.9856	S11	.4752	.9260	S16
R2P5	.9613	R4P5	.9867	S12	.4752	.9262	S17
		R4P6	.9877	S13	.4752	.9291	S18
		R4P7	.9884	S3	.5432	.9342	S19
		R4P8	.9884	S4	.6092	.9226	S20
		R4P9	.9899	S5	1.0452	.9141	S21
		R4P10	.9907	S6	1.2922	.9151	S22
		R4P11	.9927	S7	1.4202	.9111	S23
		R4P12	.9933	S8	1.5522	.9028	S26
				S9	1.9152	.9045	
				S10	2.2512	.8905	
				S27	5.3000	.7921	
				S28	1.0452	.9784	

SPIKE R6		COWL R5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.7740	S23	.7740
R6P1	.8587	R5P1	.8472
R6P2	.8898	R5P2	.8552
R6P3	.8951	R5P3	.8604
R6P4	.9071	R5P4	.8634
R6P5	.9163	R5P5	.8728
R6P8	.9615	R5P6	.8795
R6P9	.9575	R5P7	.9249
R6P10	.9457	R5P8	.9720
R6P11	.9099	R5P9	.9779
		R5P10	.9733
		R5P11	.9704

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	120	FLIGHT DATE	09/20/79	SPIKE POS.	Dx/RC	.4558	AMBIENT TEMP	292.2 DEG K	MAX-MIN DIST	.1482
		FLIGHT NO.	0	BYPASS POS.	OPEN		AMBIENT PRESS	.9186 ATMOS	K-CIRCUMF.	.5137
START	4:17:45.003	INTERVAL	1.000	ENG. FACE RECOV		.8485	ENGINE M/M*	.8945	K-RADIAL	.2106
STOP	4:18:15.000	ENG LUK RPM	6392.	ENG. FACE MACH NO		.4687	COWL M/M*	.4313		
				COWL LIP RECOV		.9461	ADDITIVE M/M*	.4631	K-DELTA	.0685
				MACH AT COWL LIP		.2117			K-A	.2792

SPIKE R1		COWL R3		STAT XCW/RC= 5.4850	
STAT XCW/RC=	.4752	STAT XCW/RC=	.0700	36 DEG	HAKE
S2	.9214	S14	.9127	A36	.9100
R1P1	.9990	R3P1	.9126	B36	.9040
R1P2	.9995	R3P2	.9126	C36	.8645
R1P3	1.0000	R3P3	.9128	D36	.8501
R1P4	.9985	R3P4	.9127	E36	.8344
R1P5	.9999	R3P5	.9124	90 DEG	HAKE
R1P6	1.0000	R3P6	.9125	A90	.9022
R1P7	1.0002	R3P7	.9799	H90	.9488
R1P8	.9998	R3P8	.9125	C90	.9122
R1P9	.9921	R3P9	.9204	D90	.8445
		R3P10	.9463	E90	.8807
		R3P11	.9884	144 DEG	HAKE
		R3P12	.9927	A144	.9510
		R3P13	1.0013	B144	.9331
		R3P14	1.0005	D144	.8970
		R3P15	1.0012	C144	.8889
		R3P16	1.0011	E144	.8808
					.8761

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/RC=	1.8702	STAT XCW/RC=	1.5380	SPIKE			COWL
S9	.8977	S20	.8253	XCW/RL	P/PO	TAP	XCW/RC
R2P1	.9431	R4P1	.9709	S1	.5262	S14	.0340
R2P2	.9673	R4P2	.9811	S2	.4752	S15	.1860
R2P3	.9861	R4P3	.9825	S11	.4752	S16	.4150
R2P4	.9835	R4P4	.9838	S12	.4752	S17	.8470
R2P5	.9587	R4P5	.9851	S13	.4752	S18	1.1740
		R4P6	.9853	S3	.5432	S19	1.4590
		R4P7	.9870	S4	.8042	S20	1.5400
		R4P8	.9881	S5	1.0452	S21	1.8270
		R4P9	.9884	S6	1.2422	S22	2.7840
		R4P10	.9901	S7	1.4202	S23	3.2980
		R4P11	.9910	S8	1.5522	S26	5.2890
		R4P12	.9921	S9	1.4152		.7658
				S10	2.2512		
				S27	5.3000		
				S28	1.0452		

SPIKE R6		COWL R5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.7565	S23	.7565
R6P1	.8473	R5P1	.8361
R6P2	.8801	R5P2	.8433
R6P3	.8855	R5P3	.8481
R6P4	.8985	R5P4	.8530
R6P5	.9097	R5P5	.8600
R6P8	.9558	R5P6	.8751
R6P9	.9537	R5P7	.9178
R6P10	.9402	R5P8	.9695
R6P11	.8996	R5P9	.9737
		R5P10	.9715
		R5P11	.9659

YF-12 INLET NOISE SUPPRESSION STUDY							
RUN	122	FLIGHT DATE 09/20/79	SPIKE POS. DX/RC .4501	AMBIENT TEMP	290.6 DEG K	MAX-MIN DIST	.1517
		FLIGHT NO. 0	BYPASS POS. OPEN	AMBIENT PRESS	.9191 ATMOS	K-CIRCUMF.	.2963
START	4:24:20.000	INTERVAL 1.000	ENG. FACE RECOV .8424	ENGINE M/M*	.9240	K-RADIAL	.2039
STOP	4:24:49.995	ENG CUR KPM 6594.	ENG. FACE MACH NO .4878	COWL M/M*	.4380		
			COWL LIP RECOV .9430	ADDITIVE M/M*	.4860	K-DELTA	.0729
			MACH AT COWL LIP .2160			K-A	.2769

SPIKE R1		COWL R3		STAT XCW/RC = 5.4830	
STAT XCW/RC = .4749	STAT XCW/RC = .0700	30 DEG MAKE	198 DEG MAKE		
S2 .9171	S14 .9086	A36 .9140	A198 .9265		
R1P1 .9988	R3P1 .9085	H36 .8478	H198 .9158		
R1P2 .9991	R3P2 .9083	C36 .8631	C198 .9055		
R1P3 .9994	R3P3 .9082	D36 .8413	D198 .8525		
R1P4 .9885	R3P4 .9084	E36 .8241	E198 .8293		
R1P5 .9995	R3P5 .9084	90 DEG MAKE	252 DEG MAKE		
R1P6 .9947	R3P6 .9081	A90 .9595	A252 .9242		
R1P7 .9956	R3P7 .9787	H90 .9426	H252 .9016		
R1P8 .9915	R3P8 .9086	C90 .9051	C252 .8785		
R1P9 .9783	R3P9 .9174	D90 .8827	D252 .8630		
	R3P10 .9483	E90 .8679	E252 .8563		
	R3P11 .9908	144 DEG MAKE	324 DEG MAKE		
	R3P12 .9923	A144 .9551	A324 .9100		
	R3P13 1.0012	H144 .9343	H324 .9257		
	R3P14 1.0000	D144 .8692	D324 .8951		
	R3P15 1.0004	E144 .8624	E324 .8838		
	R3P16 1.0008				

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/RC = 1.8699	STAT XCW/RC = 1.5380			SPIKE			COWL
S9 .8889	S20 .8172	TAP	XCW/RC	P/PU	TAP	XCW/RC	P/PU
R2P1 .9358	R4P1 .9707	S1 .9259	.9146	S14 .0340	.9086		
R2P2 .9445	R4P2 .9809	S2 .4749	.9171	S15 .1860	.9053		
R2P3 .9847	R4P3 .9815	S11 .4749	.9165	S16 .4150	.9192		
R2P4 .9617	R4P4 .9822	S12 .4749	.9182	S17 .8470	.9319		
R2P5 .9526	R4P5 .9831	S13 .4749	.9216	S18 1.1740	.9152		
	R4P6 .9840	S3 .5429	.9261	S19 1.4590	.9031		
	R4P7 .9861	S4 .8084	.9133	S20 1.5400	.8172		
	R4P8 .9874	S5 1.0449	.9040	S21 1.8270	.8901		
	R4P9 .9894	S6 1.2414	.9044	S22 2.7840	.6944		
	R4P10 .9907	S7 1.4199	.9002	S23 3.2980	.7404		
	R4P11 .9913	S8 1.5514	.8907	S26 5.2890	.7506		
		S9 1.9149	.8889				
		S10 2.2504	.8766				
		S27 5.3000	.7616				
		S28 1.0449	.9755				

SPIKE R6		COWL R5	
STAT XCW/RC = 3.5040	STAT XCW/RC = 3.3270		
S23 .7404	S23 .7404		
R6P1 .8364	R5P1 .8240		
R6P2 .8711	R5P2 .8325		
R6P3 .8717	R5P3 .8377		
R6P4 .8868	R5P4 .8441		
R6P5 .8995	R5P5 .8526		
R6P8 .9423	R5P6 .8649		
R6P9 .9454	R5P7 .9167		
R6P10 .9061	R5P8 .9678		
R6P11 .8918	R5P9 .9731		
	R5P10 .9690		
	R5P11 .9661		

YF-12 INLET NOISE SUPPRESSION STUDY

HUN	124	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.0860	AMBIENT TEMP	292.8 DEG K	MAX-MIN DIST	.0429
		FLIGHT NU.	0	HYPASS POS.	OPEN	AMBIENT PRESS	.9191 ATMOS	K-CIRCUMF.	.7840
START	4:29:15.000	INTERVAL	1.000	ENG. FALC RECUV	.9597	ENGINE M/M*	.8567	K-RADIAL	.1230
STOP	4:29:45.000	ENG COM RPM	3784.	ENG. FALC MACH NU	.2124	COWL M/M*	.8279	K-DELTA	.0621
				COWL LIP RECUV	.9432	ADDITIVE M/M*	.6288	K-A	.1850
				MACH AT COWL LIP	.0725				

SPIKE R1		COWL K3		STAT XCN/KC= 5.4830			
STAT	XCN/KC= .8450	STAT	XCN/KC= .0700	36	DEG HAKE	198	DEG HAKE
S2	.9896	S14	.9895	A36	.9605	A198	.9620
R1P1	1.0001	K3P1	.9896	H36	.9549	H198	.9547
R1P2	1.0011	R3P2	.9895	C36	.9477	C198	.9636
R1P3	1.0014	K3P3	.9895	D36	.9457	D198	.9508
R1P4	.9998	K3P4	.9894	E36	.9431	E198	.9823
R1P5	1.0013	K3P5	.9894	90	DEG HAKE	252	DEG HAKE
R1P6	1.0014	R3P6	.9896	A90	.9835	A252	.9750
R1P7	1.0014	R3P7	.9901	H90	.9816	H252	.9606
R1P8	1.0015	K3P8	.9897	C90	.9707	C252	.9608
R1P9	1.0006	K3P9	.9894	D90	.9637	D252	.9577
		K3P10	.9903	E90	.9581	E252	.9527
		K3P11	.9931	144	DEG HAKE	324	DEG HAKE
		R3P12	.9967	A144	.9714	A324	.9620
		K3P13	1.0026	H144	.9626	H324	.9579
		R3P14	1.0023	D144	.9597	C324	.9565
		K3P15	1.0025	C144	.9548	D324	.9585
		K3P16	1.0026	E144	.9498	E324	.9575

SPIKE K2		COWL K4		STATIC PRESSURES			
STAT	XCN/KC= 2.2400	STAT	XCN/KC= 1.5380	SPIKE		COWL	
S9	.9654	S20	.9371	XCN/KC	P/PU	IAP	XCN/KC P/PU
R2P1	.9862	K4P1	.9984	S1	.8960	.9887	S14 .0340 .9895
R2P2	.9969	R4P2	1.0005	S2	.8450	.9896	S15 .1800 .9868
R2P3	.9943	K4P3	1.0004	S11	.8450	.9885	S16 .4150 .9876
R2P4	.9828	K4P4	1.0008	S12	.8450	.9889	S17 .8470 .9917
R2P5	.9561	K4P5	1.0012	S13	.8450	.9893	S18 1.1740 .9849
		K4P6	1.0014	S3	.9150	.9894	S19 1.4590 .9701
		K4P7	1.0020	S4	1.1790	.9806	S20 1.5400 .9371
		R4P8	1.0022	S5	1.4150	.9671	S21 1.8270 .9653
		K4P9	1.0024	S6	1.6020	.9635	S22 2.7840 .9039
		K4P10	1.0025	S7	1.7900	.9635	S23 3.2980 .9244
		K4P11	1.0023	S8	1.9220	.9634	S26 5.2890 .9284
		K4P12	1.0013	S9	2.2850	.9654	
				S10	2.6210	.9269	
				S27	5.3000	.9301	
				S28	1.4150	.9939	

SPIKE R6		COWL K5	
STAT	XCN/KC= 3.5040	STAT	XCN/KC= 3.3270
S23	.9244	S23	.9244
R6P1	.9536	K5P1	.9474
R6P2	.9635	K5P2	.9510
R6P3	.9606	K5P3	.9535
R6P4	.9640	K5P4	.9542
R6P5	.9655	K5P5	.9585
R6P8	.9628	K5P6	.9633
R6P9	.9567	K5P7	.9782
R6P10	.9523	K5P8	.9932
K6P11	.9409	K5P9	.9933
		K5P10	.9869
		K5P11	.9818

YF-12 INLET NOISE SUPPRESSION STUDY
 RUN 125 FLIGHT DATE 09/20/79 SPIKE POS. DX/MC .0854 AMBIENT TEMP 292.8 DEG K
 START 4131:50.001 FLIGHT NO. 0 BYPASS POS. OPEN AMBIENT PRESS 9188 ATMOS
 STOP 4132:19.99A INTERVAL 1.000 ENG. FACE RECOV .9473 ENGINE M/M* 8873
 ENG COV RPM 4163. ENG. FACE MACH NO .2454 COWL M/M* 2412
 COWL LIP RECOV .9904 ADDITIVE M/M* 86861
 MACH AT LUM LIP .0770
 MAX-MIN DIST .0623
 K=CIRCUMF. .0828
 K=RADIAL .1599
 K=DELTA .0662
 K=A .2261

SPIKE R1		COWL R3		STAT XCW/MC= 5.4830	
STAT XCW/MC= .8456	STAT XCW/MC= .0700	36 DEG RAKE	198 DEG RAKE		
S2 .9866	S14 .9860	A36 .9491	A198 .9516		
R1P1 1.0000	R3P1 .9859	B36 .9422	B198 .9882		
R1P2 1.0019	R3P2 .9859	C36 .9337	C198 .9521		
R1P3 1.0018	R3P3 .9858	D36 .9276	D198 .9337		
R1P4 .9996	R3P4 .9859	E36 .9224	E198 .9218		
R1P5 1.0018	R3P5 .9860	90 DEG RAKE	252 DEG RAKE		
R1P6 1.0019	R3P6 .9860	A90 .9800	A252 .9674		
R1P7 1.0021	R3P7 .9945	B90 .9733	B252 .9537		
R1P8 1.0018	R3P8 .9858	C90 .9585	C252 .9887		
R1P9 1.0006	R3P9 .9857	D90 .9508	D252 .9456		
	R3P10 .9860	E90 .9457	E252 .9398		
	R3P11 .9879	144 DEG RAKE	324 DEG RAKE		
	R3P12 .9927	A144 .9616	A324 .9522		
	R3P13 1.0027	B144 .9574	B324 .9860		
	R3P14 1.0027	D144 .9468	D324 .9439		
	R3P15 1.0030	E144 .9396	E324 .9406		
	R3P16 1.0030	E144 .9324	E324 .9455		

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/MC= 2.2406	STAT XCW/MC= 1.5380			SPIKE		COWL	
S9 .9548	S20 .9167	TAP	XLW/MC	P/PU	TAP	XLW/MC	P/PU
R2P1 .9806	R4P1 .9963	S1 .0406	.9855	S14 .0340	.9860		
R2P2 .9954	R4P2 .9496	S2 .0456	.9866	S15 .1860	.9833		
R2P3 .9928	R4P3 1.0001	S11 .9456	.9859	S16 .4150	.9842		
R2P4 .9788	R4P4 1.0004	S12 .9456	.9862	S17 .8470	.9891		
R2P5 .9425	R4P5 1.0007	S13 .0456	.9869	S18 1.1740	.9808		
	R4P6 1.0007	S3 .9136	.9863	S19 1.4590	.9618		
	R4P7 1.0012	S4 1.1746	.9754	S20 1.5400	.9167		
	R4P8 1.0014	S5 1.4156	.9578	S21 1.8270	.9548		
	R4P9 1.0021	S6 1.6626	.9529	S22 2.7840	.8739		
	R4P10 1.0028	S7 1.7906	.9533	S23 3.2980	.9011		
	R4P11 1.0027	S8 1.9226	.9530	S26 5.2890	.9058		
	R4P12 1.0009	S9 2.2856	.9548				
		S10 2.6216	.9045				
		S27 5.3000	.9087				
		S28 1.4156	.9924				

SPIKE R6		COWL R5	
STAT XCW/MC= 3.5040	STAT XCW/MC= 3.3270		
S23 .9011	S23 .9011		
R6P1 .9403	R5P1 .9305		
R6P2 .9511	R5P2 .9332		
R6P3 .9488	R5P3 .9372		
R6P4 .9531	R5P4 .9363		
R6P5 .9551	R5P5 .9440		
R6P8 .9532	R5P6 .9445		
R6P9 .9449	R5P7 .9888		
R6P10 .9370	R5P8 .9888		
R6P11 .9235	R5P9 .9897		
	R5P10 .9843		
	R5P11 .9777		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	126	FLIGHT DATE	09/20/79	SPIKE POS. IX/RC	.0849	AMBIENT TEMP	293.3 DEG K	MAX-MIN DIST	.0666
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9190 ATMUS	K-CIRCUMF.	.6705
START	4:33:50.001	INTERVAL	1.000	ENG. FACE RECOV	.9425	ENGINE M/M#	.8981	K-RADIAL	.1656
STOP	4:34:20.000	ENG COM RPM	4289.	ENG. FACE MACH NO	.2577	COWL M/M#	.2730		
				COWL LIP RECOV	.9401	ADDITIVE M/M#	.6251	K-DELTA	.0758
				MACH AT COWL LIP	.0873			K-A	.2414

SPIKE R1		COWL K3		STAT XLW/HCL= 5.4830	
STAT XCW/RC#	.8461	STAT XCW/RC#	.0700	36 DEG MAKE	198 DEG MAKE
S2	.9854	S14	.9843	A36	.9444 A198 .9459
R1P1	1.0003	R3P1	.9845	B36	.9359 B198 .9430
R1P2	1.0012	R3P2	.9845	C36	.9279 C198 .9441
R1P3	1.0015	R3P3	.9843	D36	.9216 D198 .9279
R1P4	.9989	R3P4	.9845	E36	.9156 E198 .9170
R1P5	1.0016	R3P5	.9844	90 DEG MAKE	252 DEG MAKE
R1P6	1.0015	R3P6	.9845	A90	.9784 A252 .9663
R1P7	1.0015	R3P7	.9941	B90	.9720 B252 .9520
R1P8	1.0013	R3P8	.9844	C90	.9560 C252 .9453
R1P9	1.0003	R3P9	.9843	D90	.9476 D252 .9412
		R3P10	.9850	E90	.9428 E252 .9343
		R3P11	.9890	144 DEG MAKE	324 DEG MAKE
		R3P12	.9948	A144	.9574 A324 .9459
		R3P13	1.0027	B144	.9541 B324 .9397
		R3P14	1.0023	D144	.9420 D324 .9369
		R3P15	1.0029	C144	.9339 C324 .9406
		R3P16	1.0028	E144	.9259 E324 .9381

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/RC#	2.2411	STAT XCW/RC#	1.5380	SPIKE		COWL	
S9	.9503	S20	.9101	XLW/RC	P/PU	IAP	XLW/RC
R2P1	.9790	R4P1	.9962	S1	.0971 .9843	S14	.0340 .9843
R2P2	.9952	R4P2	.9942	S2	.8461 .9854	S15	1.1860 .9816
R2P3	.9913	R4P3	.9947	S11	.8461 .9845	S16	.4150 .9831
R2P4	.9761	R4P4	.9948	S12	.8461 .9846	S17	.8470 .9884
R2P5	.9364	R4P5	1.0000	S13	.8461 .9855	S18	1.1740 .9790
		R4P6	1.0006	S3	.9141 .9852	S19	1.4590 .9580
		R4P7	1.0010	S4	1.1801 .9751	S20	1.5400 .9101
		R4P8	1.0016	S5	1.4161 .9540	S21	1.8270 .9506
		R4P9	1.0021	S6	1.0631 .9487	S22	2.7840 .8633
		R4P10	1.0025	S7	1.7911 .9487	S23	3.2980 .8905
		R4P11	1.0024	S8	1.9231 .9486	S26	5.2890 .8974
		R4P12	1.0002	S9	2.2001 .9503		
				S10	2.0221 .8953		
				S27	5.3000 .9001		
				S28	1.4161 .9918		

SPIKE R6		COWL K5	
STAT XCW/RC#	3.5040	STAT XLW/HCL	3.3270
S23	.8905	S23	.8905
R6P1	.9337	R5P1	.9241
R6P2	.9469	R5P2	.9279
R6P3	.9443	R5P3	.9299
R6P4	.9486	R5P4	.9311
R6P5	.9518	R5P5	.9378
R6P8	.9494	R5P6	.9456
R6P9	.9405	R5P7	.9605
R6P10	.9319	R5P8	.9804
R6P11	.9182	R5P9	.9872
		R5P10	.9824
		R5P11	.9760

VF-12 INLET NOISE SUPPRESSION STUDY

RUN	127	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.0857	AMBIENT TEMP	293.3 DEG K	MAX-MIN DIST	.0722
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	99197 ATMOS	K-CIRCUMF.	.0601
START	4:36:00.000	INTERVAL	1.000	ENG_FACE RECOV	.9575	ENGINE M/M*	99057	K-RADIAL	.1757
STOP	4:36:30.000	ENG CDK RPM	4383.	ENG_FACE MACH NO	.2671	COWL M/M*	92934		
				COWL LIP RECOV	.9890	ADDITIVE M/M*	66123	K-DELTA	.0823
				MACH AT COWL LIP	.0940			K-A	.2580

SPIKE R1		COWL N3		STAT XCW/RC= 5.4830	
STAT XCW/RC=	.8453	STAT XCW/RC=	.0700	36 DEG MAKE	198 DEG MAKE
S2	.9836	S14	.9823	A36	.9399
R1P1	.9993	R3P1	.9826	H36	.9316
R1P2	1.0007	R3P2	.9826	C36	.9216
R1P3	1.0010	R3P3	.9826	D36	.9142
R1P4	.9982	R3P4	.9826	E36	.9102
R1P5	1.0008	R3P5	.9826	90 DEG MAKE	252 DEG MAKE
R1P6	1.0009	R3P6	.9826	A90	.9754
R1P7	1.0008	R3P7	.9928	H90	.9727
R1P8	1.0007	R3P8	.9826	C90	.9554
R1P9	.9998	R3P9	.9826	D90	.9455
		R3P10	.9836	E90	.9575
		R3P11	.9885	144 DEG MAKE	324 DEG MAKE
		R3P12	.9946	A144	.9530
		R3P13	1.0023	H144	.9471
		R3P14	1.0018	D144	.9354
		R3P15	1.0021	C144	.9273
		R3P16	1.0020	E144	.9192

SPIKE R2		COWL N4		STATIC PRESSURES			
STAT XCW/RC=	2.2403	STAT XCW/RC=	1.5380	SPIKE		COWL	
S9	.9464	S20	.9023	XCW/RC	P/PO	TAP	P/PO
R2P1	.9774	R4P1	.9947	S1	.0963	S14	.0340
R2P2	.9946	R4P2	.9987	S2	.0453	S15	.1860
R2P3	.9900	R4P3	.9986	S11	.0453	S16	.4150
R2P4	.9724	R4P4	.9942	S12	.0453	S17	.8470
R2P5	.9319	R4P5	.9996	S13	.0453	S18	1.1740
		R4P6	1.0000	S3	.4133	S19	1.4590
		R4P7	1.0004	S4	1.1793	S20	1.5400
		R4P8	1.0009	S5	1.4153	S21	1.8270
		R4P9	1.0015	S6	1.0623	S22	2.7840
		R4P10	1.0018	S7	1.7903	S23	3.2980
		R4P11	1.0019	S8	1.4223	S26	5.2890
		R4P12	.9994	S9	2.2853		.8894
				S10	2.6213		.8808
				S27	5.3000		.8922
				S28	1.4153		.9903

SPIKE R6		COWL N5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.8831	S23	.8831
R6P1	.9282	R5P1	.9184
R6P2	.9422	R5P2	.9204
R6P3	.9395	R5P3	.9230
R6P4	.9441	R5P4	.9268
R6P5	.9491	R5P5	.9295
R6P6	.9454	R5P6	.9377
R6P9	.9366	R5P7	.9578
R6P10	.9263	R5P8	.9879
R6P11	.9095	R5P9	.9887
		R5P10	.9822
		R5P11	.9734

YF-12 INLET NOISE SUPPRESSION STUDY
 RUN 128 FLIGHT DATE 09/20/79 SPIKE POS. DX/RC .0849 AMBIENT TEMP 293.3 DEG K
 FLIGHT NO. 0 BYPASS POS. OPEN AMBIENT PRESS .9190 ATMOS
 START 4:39: 7.874 INTERVAL 1.000 ENG. FACE RECOV .9356 ENGINE M/M* .9175
 STOP 4:39:30.000 ENG COR RPM 4481. COWL LIP RECOV .9880 COWL M/M* .2745
 COWL LIP MACH NO .0880 ADDITIVE M/M* .6430
 MACH AT COWL LIP .0880 K-DELTA .0578
 K=CIRCUMF. .6176
 K=RADIAL .1638
 K=A .2416

SPIKE R1		COWL W3		STAT XCW/KC# 5.4830	
STAT XCW/RC#	.8461	STAT XCW/KC#	.0700	36 DEG	RAKE
S2	.9831	S14	.9823	A36	.9375
R1P1	1.0003	R3P1	.9824	R36	.9290
R1P2	1.0011	R3P2	.9824	C36	.9194
R1P3	1.0016	R3P3	.9823	D36	.9129
R1P4	.9987	R3P4	.9823	E36	.9056
R1P5	1.0012	R3P5	.9824	90 DEG	RAKE
R1P6	1.0015	R3P6	.9824	A90	.9142
R1P7	1.0015	R3P7	.9925	H90	.9663
R1P8	1.0012	R3P8	.9823	C90	.9526
R1P9	1.0001	R3P9	.9822	D90	.9408
		R3P10	.9826	E90	.9325
		R3P11	.9859	144 DEG	RAKE
		R3P12	.9914	A144	.9496
		R3P13	1.0022	H144	.9472
		R3P14	1.0023	D144	.9354
		R3P15	1.0030	C144	.9254
		R3P16	1.0026	E144	.9168
				A324	.9882
				B324	.9325
				C324	.9313
				D324	.9335
				E324	.9305

SPIKE W2		COWL W4		STATIC PRESSURES					
STAT XCW/RC#	2.2411	STAT XCW/KC#	1.5380	TAP	SPIKE	P/PU	IAP	COWL	P/PO
S9	.9446	S20	.8995	S1	XCW/KC	S14	.0340	.9823	
R2P1	.9765	R4P1	.9946	S2	.0971	S15	.1860	.9793	
R2P2	.9944	R4P2	.9983	S11	.8461	S16	.4150	.9808	
R2P3	.9903	R4P3	.9988	S12	.8461	S17	.8470	.9867	
R2P4	.9746	R4P4	.9994	S13	.8461	S18	1.1740	.9764	
R2P5	.9281	R4P5	.9999	S3	.9141	S19	1.4590	.9534	
		R4P6	1.0004	S4	1.1801	S20	1.5400	.8995	
		R4P7	1.0007	S5	1.4161	S21	1.8270	.9450	
		R4P8	1.0015	S6	1.6631	S22	2.7840	.8449	
		R4P9	1.0019	S7	1.7911	S23	3.2980	.8777	
		R4P10	1.0023	S8	1.9231	S26	5.2890	.8639	
		R4P11	1.0022	S9	2.2861				
		R4P12	1.0001	S10	2.6221				
				S27	5.3000				
				S28	1.4161	.9968			

SPIKE R6		COWL W5	
STAT XCW/RC#	3.5040	STAT XCW/KC#	3.3270
S23	.8777	S23	.8777
R6P1	.9264	R5P1	.9133
R6P2	.9394	R5P2	.9165
R6P3	.9368	R5P3	.9203
R6P4	.9426	R5P4	.9214
R6P5	.9458	R5P5	.9266
R6P6	.9427	R5P6	.9324
R6P9	.9324	R5P7	.9567
R6P10	.9237	R5P8	.9861
R6P11	.9060	R5P9	.9872
		R5P10	.9803
		R5P11	.9696

YF-12 INLET NOISE SUPPRESSION STUDY
 RUN 129 FLIGHT DATE 09/20/79 SPIKE POS. DX/RC .0847 AMBIENT TEMP 293.3 DEG K
 FLIGHT NO. 0 BYPASS POS. OPEN AMBIENT PRESS .9201 ATMOS
 START 4140155.001 INTERVAL 1.000 ENG. FACE RECOV .9283 ENGINE M/M* .9260
 STOP 4141129.998 ENG COR RPM 4591. COWL LIP RECOV .2858 COWL M/M* .3086
 COWL LIP RECOV .9867 ADDITIVE M/M* .6174
 MACH AT COWL LIP .0992
 K-CIRCUMF. .6182
 K-RADIAL .1977
 K-DELTA .0782
 K-A .2759

SPIKE R1 STAT XCW/RC# .8463 COWL K3 STAT XCW/RC# .0700 STAT XCW/RC# 5.4850
 S2 .9807 S14 .9792 A36 .9500 A198 .9360
 R1P1 .9987 R3P1 .9795 B36 .9225 H198 .9292
 R1P2 .9997 R3P2 .9794 C36 .9100 C198 .9291
 R1P3 1.0001 R3P3 .9794 D36 .9028 D198 .9104
 R1P4 .9970 R3P4 .9794 E36 .8987 E198 .8939
 R1P5 1.0001 R3P5 .9795 90 DEG RAKE 252 DEG RAKE
 R1P6 1.0004 R3P6 .9794 A90 .9720 A252 .9581
 R1P7 .9999 R3P7 .9908 B90 .9600 B252 .9410
 R1P8 1.0000 R3P8 .9794 C90 .9410 C252 .9316
 R1P9 .9974 R3P9 .9794 D90 .9315 D252 .9259
 R3P10 .9812 E90 .9240 E252 .9181
 R3P11 .9877 144 DEG RAKE 324 DEG RAKE
 R3P12 .9933 A144 .9485 A324 .9338
 R3P13 1.0013 B144 .9434 B324 .9251
 R3P14 1.0008 D144 .9278 D324 .9242
 R3P15 1.0012 C144 .9192 C324 .9261
 R3P16 1.0014 E144 .9107 E324 .9248

SPIKE R2 STAT XCW/RC# 2.2413 COWL K4 STAT XCW/RC# 1.5380 STATIC PRESSURES
 S9 .9386 S20 .8895 SPIKE XCW/RC P/PU TAP COWL XCW/RC P/PU
 R2P1 .9728 R4P1 .9935 S1 .6973 .9800 S14 .0340 .9792
 R2P2 .9926 R4P2 .9973 S2 .8463 .9807 S15 .1860 .9763
 R2P3 .9885 R4P3 .9974 S11 .8463 .9801 S16 .4150 .9782
 R2P4 .9692 R4P4 .9975 S12 .8463 .9802 S17 .8470 .9848
 R2P5 .9210 R4P5 .9982 S13 .8463 .9811 S18 1.1740 .9734
 R4P6 .9986 S3 .9143 .9808 S19 1.4590 .9482
 R4P7 .9994 S4 1.1803 .9664 S20 1.5400 .8895
 R4P8 1.0002 S5 1.4163 .9436 S21 1.8270 .9391
 R4P9 1.0006 S6 1.8633 .9367 S22 2.7840 .8315
 R4P10 1.0010 S7 1.7913 .9372 S23 3.2980 .8657
 R4P11 1.0008 S8 1.9233 .9369 S26 5.2890 .8738
 R4P12 .9988 S9 2.2863 .9386
 S10 2.6223 .8717
 S27 5.3000 .8775
 S28 1.4163 .9886

SPIKE R6 STAT XCW/RC# 3.5040 COWL K5 STAT XCW/RC# 3.3270
 S23 .8657 S23 .8657
 R6P1 .9186 H5P1 .9041
 R6P2 .9336 H5P2 .9089
 R6P3 .9317 H5P3 .9123
 R6P4 .9369 H5P4 .9138
 R6P5 .9401 H5P5 .9202
 R6P8 .9442 H5P6 .9278
 R6P9 .9270 H5P7 .9486
 R6P10 .9158 H5P8 .9842
 R6P11 .9087 H5P9 .9839
 H5P10 .9775
 H5P11 .9703

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	130	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.0844	AMBIENT TEMP	293.3 DEG K	MAX=MIN DIST	.0899
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9205 ATMOS	K=CIRCUMF.	.5862
START	4:43:10.001	INTERVAL	1.000	ENG. FACE REC OV	.9225	ENGINE M/M*	.9346	K=RADIAL	.1983
STOP	4:43:40.000	ENG COM RPM	4700.	ENG. FACE MACH NO	.2473	COWL M/M*	.3090	K=DELTA	.0637
				COWL LIP REC OV	.9849	ADDITIVE M/M*	.6256	K=A	.2619
				MACH AT COWL LIP	.0494				

SPIKE R1		COWL K3		STAT XCM/RC= 5.4830	
STAT XCM/RC=	.8466	STAT XCM/RC=	.0700	36 DEG RAKE	198 DEG RAKE
S2	.9789	S14	.9772	A36	.9242 A198
R1P1	.9951	R3P1	.9778	B36	.9160 B198
R1P2	.9960	R3P2	.9775	C36	.9038 C198
R1P3	.9996	R3P3	.9774	D36	.8460 D198
R1P4	.9964	R3P4	.9776	E36	.8913 E198
R1P5	.9977	R3P5	.9777	90 DEG RAKE	252 DEG RAKE
R1P6	.9996	R3P6	.9775	A90	.9700 A252
R1P7	.9975	R3P7	.9845	B90	.9564 B252
R1P8	.9974	R3P8	.9773	C90	.9368 C252
R1P9	.9976	R3P9	.9772	D90	.9255 D252
		R3P10	.9785	E90	.9181 E252
		R3P11	.9842	144 DEG RAKE	324 DEG RAKE
		R3P12	.9904	A144	.9436 A324
		R3P13	1.0012	B144	.9373 B324
		R3P14	1.0003	D144	.9196 D324
		R3P15	1.0010	C144	.9107 C324
		R3P16	1.0009	E144	.9019 E324

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCM/RC=	2.2416	STAT XCM/RC=	1.5380	SPIKE		COWL	
S9	.9336	S20	.8821	XCM/RC	P/PO	IAP	P/PO
R2P1	.9703	R4P1	.9922	S1	.6976	S14	.0340
R2P2	.9888	R4P2	.9964	S2	.8466	S15	.1860
R2P3	.9869	R4P3	.9967	S11	.8466	S16	.4150
R2P4	.9668	R4P4	.9973	S12	.8466	S17	.8470
R2P5	.9144	R4P5	.9975	S13	.8466	S18	1.1740
		R4P6	.9979	S3	.9146	S19	1.4590
		R4P7	.9988	S4	1.1806	S20	1.5400
		R4P8	.9997	S5	1.4166	S21	1.8270
		R4P9	.9949	S6	1.6636	S22	2.7840
		R4P10	1.0002	S7	1.7916	S23	3.2980
		R4P11	1.0002	S8	1.9236	S26	5.2890
		R4P12	.9981	S9	2.2866		
				S10	2.6226		
				S27	3.3000		
				S28	1.4166		

SPIKE R6		COWL K5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.8558	S23	.8558
R6P1	.9114	K5P1	.8945
R6P2	.9272	K5P2	.9027
R6P3	.9252	K5P3	.9027
R6P4	.9308	K5P4	.9093
R6P5	.9348	K5P5	.9149
R6P8	.9311	K5P6	.9198
R6P9	.9212	K5P7	.9464
R6P10	.9107	K5P8	.9419
R6P11	.9007	K5P9	.9849
		R5P10	.9757
		K5P11	.9683

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	131	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.0844	AMBIENT TEMP	293.3 DEG K	MAX-MIN DIST	.0983
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9194 ATMOS	K-CIRCUMF.	.5832
START	4:45:10.000	INTERVAL	1.000	ENG. FACE RECOV	.9198	ENGINE M/M*	.9445	K-RADIAL	.2120
STOP	4:45:39.997	ENG CON RPM	4795.	ENG. FACE MACH NO	.3056	COWL M/M*	.3058		
				COWL LIP RECOV	.9851	ADDITIVE M/M*	.6387	K-DELTA	.0754
				MACH AT COWL LIP	.0984			K-A	.2874

SPIKE R1		COWL R3		STAT XCW/RC= 5.4830			
STAT XCW/RC=	.8466	STAT XCW/RC=	.0700	36 DEG RAKE	198 DEG RAKE		
S2	.9792	S14	.9777	A36	.9234	A198	.9281
R1P1	.9992	R3P1	.9777	B36	.9153	B198	.9248
R1P2	1.0007	R3P2	.9780	C36	.9014	C198	.9212
R1P3	1.0008	R3P3	.9779	D36	.8924	D198	.8967
R1P4	.9973	R3P4	.9777	E36	.8859	E198	.8794
R1P5	1.0006	R3P5	.9778	90 DEG RAKE	252 DEG RAKE		
R1P6	1.0005	R3P6	.9780	A90	.9698	A252	.9525
R1P7	1.0009	R3P7	.9902	B90	.9598	B252	.9316
R1P8	1.0006	R3P8	.9775	C90	.9376	C252	.9231
R1P9	.9989	R3P9	.9774	D90	.9239	D252	.9168
		R3P10	.9782	E90	.9103	E252	.9096
		R3P11	.9850	144 DEG RAKE	324 DEG RAKE		
		R3P12	.9923	A144	.9388	A324	.9265
		R3P13	1.0021	B144	.9319	B324	.9187
		R3P14	1.0015	D144	.9181	C324	.9148
		R3P15	1.0023	C144	.9083	D324	.9169
		R3P16	1.0022	E144	.8985	E324	.9128

SPIKE R2		COWL R4		STATIC PRESSURES				
STAT XCW/RC=	2.2416	STAT XCW/RC=	1.5380	SPIKE		COWL		
S9	.9313	S20	.8777	XCW/RC	P/PO	IAP	XCW/RC	P/PO
R2P1	.9700	R4P1	.9927	S1	.8976	S14	.0340	.9777
R2P2	.9916	R4P2	.9972	S2	.8466	S15	.1860	.9748
R2P3	.9868	R4P3	.9977	S11	.8466	S16	.4150	.9766
R2P4	.9654	R4P4	.9985	S12	.8466	S17	.8470	.9837
R2P5	.9109	R4P5	.9989	S13	.8466	S18	1.1740	.9713
		R4P6	.9992	S3	.9146	S19	1.4590	.9432
		R4P7	1.0001	S4	1.1800	S20	1.5400	.8777
		R4P8	1.0007	S5	1.4166	S21	1.8270	.9327
		R4P9	1.0010	S6	1.6636	S22	2.7840	.8107
		R4P10	1.0015	S7	1.7916	S23	3.2980	.8489
		R4P11	1.0015	S8	1.9236	S26	5.2890	.8579
		R4P12	.9991	S9	2.2866			
				S10	2.6226			
				S27	5.3000			
				S28	1.4166			

SPIKE R6		COWL R5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.8489	S23	.8489
R6P1	.9084	R5P1	.8932
R6P2	.9247	R5P2	.8958
R6P3	.9246	R5P3	.9015
R6P4	.9285	R5P4	.9020
R6P5	.9316	R5P5	.9107
R6P6	.9296	R5P6	.9176
R6P9	.9179	R5P7	.9436
R6P10	.9058	R5P8	.9747
R6P11	.8851	R5P9	.9635
		R5P10	.9769
		R5P11	.9671

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	132	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.0844	AMBIENT TEMP	293.3 DEG K	MAX=MIN DIST	.1009
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9184 ATMUS	K=CIRCUF.	.3598
START	4147120.000	INTERVAL	1.000	ENG.FACE RECOV	.9145	ENGINE M/M*	.9559	K=RADIAL	.2188
STOP	4147150.000	ENG COR MPH	4917.	ENG.FACE MACH NO	.3208	COWL M/M*	.3279	K=DELTA	.0708
				COWL LIP RECOV	.9855	ADDITIVE M/M*	.6280	K=A	.2898
				MACH AT COWL LIP	.1055				

SPIKE R1		COWL M3		STAT XCM/RC= 5.4850		
STAT XCM/RC=	.8466	STAT XCM/RC=	.0700	36 DEG HAKE	198 DEG HAKE	
S2	.9789	S14	.9769	A36	.9181 A198	.9234
R1P1	1.0005	R3P1	.9772	B36	.9087 B198	.9144
R1P2	1.0017	R3P2	.9771	C36	.8444 C198	.9142
R1P3	1.0024	R3P3	.9774	D36	.8888 D198	.8909
R1P4	.9983	R3P4	.9772	E36	.8780 E198	.8749
R1P5	1.0034	R3P5	.9770	90 DEG HAKE	252 DEG HAKE	
R1P6	1.0031	R3P6	.9772	A90	.9672 A252	.9465
R1P7	1.0024	R3P7	.9908	B90	.9503 B252	.9249
R1P8	1.0030	R3P8	.9770	C90	.9508 C252	.9176
R1P9	1.0003	R3P9	.9768	D90	.9184 D252	.9108
		R3P10	.9778	E90	.9088 E252	.9032
		R3P11	.9856	144 DEG HAKE	324 DEG HAKE	
		R3P12	.9917	A144	.9409 A324	.9226
		R3P13	1.0033	B144	.9328 B324	.9167
		R3P14	1.0026	D144	.9136 C324	.9125
		R3P15	1.0034	C144	.9019 D324	.9133
		R3P16	1.0032	E144	.8403 E324	.9088

SPIKE R2		COWL M4		STATIC PRESSURES			
STAT XCM/RC=	2.2416	STAT XCM/RC=	1.5380	SPIKE		COWL	
S9	.9272	S20	.8700	XCM/RC	P/PO	TAP	XCM/RC P/PO
R2P1	.9678	R4P1	.9932	S1	.8978	S14	.0340 .9769
R2P2	.9920	R4P2	.9985	S2	.8488	S15	.1860 .9739
R2P3	.9874	R4P3	.9986	S11	.8488	S16	.4150 .9762
R2P4	.9655	R4P4	.9993	S12	.8488	S17	.8470 .9837
R2P5	.9046	R4P5	.9999	S13	.8488	S18	1.1740 .9702
		R4P6	1.0005	S3	.9146	S19	1.4590 .9399
		R4P7	1.0010	S4	1.1808	S20	1.5400 .8700
		R4P8	1.0016	S5	1.4188	S21	1.8270 .9286
		R4P9	1.0023	S6	1.6638	S22	2.7840 .7958
		R4P10	1.0029	S7	1.7918	S23	3.2980 .8384
		R4P11	1.0027	S8	1.9238	S26	5.2890 .8475
		R4P12	.9998	S9	2.2888		
				S10	2.6228		
				S27	5.3000		
				S28	1.4188		
					.9882		

SPIKE R6		COWL M5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.8384	S23	.8384
R6P1	.9013	R5P1	.8836
R6P2	.9191	R5P2	.8884
R6P3	.9178	R5P3	.8843
R6P4	.9247	R5P4	.8969
R6P5	.9290	R5P5	.9024
R6P6	.9269	R5P6	.9151
R6P9	.9143	R5P7	.9415
R6P10	.9017	R5P8	.9795
R6P11	.8794	R5P9	.9821
		R5P10	.9751
		R5P11	.9661

YF-12 INLET NOISE SUPPRESSION STUDY
 RUN 133 FLIGHT DATE 09/20/79 SPIKE POS. DX/KC .0845 AMBIENT TEMP 293.9 DEG K MAX=MIN DIST .1115
 START 4:49:15.003 FLIGHT NO. 0 BYPASS POS. OPEN AMBIENT PRESS .9194 ATMOS .5334
 STOP 4:51:50.001 INTERVAL 1.000 ENG. FACE REC OV .9063 ENGINE M/M* .9661 K-RADIAL .2305
 ENG CUR RPM 5051. ENG. FACE MACH NO .3507 COWL M/M* .6328 K-DELTA .0644
 COWL LIP REC OV .9830 ADDITIVE M/M* .6372 K=A .2949
 MACH AT COWL LIP .1062

SPIKE R1		COWL R3		STAT XCW/KC= 5.4830	
STAT XCW/KC= .8465	STAT XCW/KC= .0700	36 DEG RAKE	198 DEG RAKE		
S2 .9764	S14 .9742	A36 .9121	A198 .9168		
R1P1 .9994	R3P1 .9747	B36 .8998	B198 .9089		
R1P2 1.0003	R3P2 .9745	C36 .8873	C198 .9087		
R1P3 1.0007	R3P3 .9745	D36 .8774	D198 .8781		
R1P4 .9969	R3P4 .9746	E36 .8640	E198 .8600		
R1P5 1.0009	R3P5 .9745	90 DEG RAKE	252 DEG RAKE		
R1P6 1.0007	R3P6 .9744	A90 .9011	A252 .9438		
R1P7 1.0006	R3P7 .9888	B90 .9533	B252 .9186		
R1P8 1.0004	R3P8 .9741	C90 .9278	C252 .9078		
R1P9 .9985	R3P9 .9741	D90 .9113	D252 .9014		
	R3P10 .9751	E90 .9011	E252 .8933		
	R3P11 .9809	144 DEG RAKE	324 DEG RAKE		
	R3P12 .9879	A144 .9303	A324 .9176		
	R3P13 1.0017	B144 .9187	B324 .9055		
	R3P14 1.0014	D144 .9025	C324 .9036		
	R3P15 1.0025	C144 .8414	D324 .9049		
	R3P16 1.0020	E144 .8803	E324 .8985		

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/KC= 2.2415	STAT XCW/KC= 1.5380			SPIKE		COWL	
S9 .9214	S20 .8615	TAP	XCW/KC	P/PU	TAP	XCW/KC	P/PO
R2P1 .9660	R4P1 .9915	S1 .8975	.9754	S14 .0340	.9742		
R2P2 .9904	R4P2 .9908	S2 .8465	.9764	S15 .1860	.9712		
R2P3 .9853	R4P3 .9974	S11 .8465	.9759	S16 .4150	.9731		
R2P4 .9604	R4P4 .9979	S12 .8465	.9761	S17 .8470	.9813		
R2P5 .8974	R4P5 .9986	S13 .8465	.9771	S18 1.1740	.9672		
	R4P6 .9992	S3 .9145	.9767	S19 1.4590	.9354		
	R4P7 .9997	S4 1.1805	.9581	S20 1.5400	.8615		
	R4P8 1.0003	S5 1.4165	.9289	S21 1.8270	.9231		
	R4P9 1.0012	S6 1.6635	.9195	S22 2.7840	.7800		
	R4P10 1.0019	S7 1.7915	.9200	S23 3.2980	.8262		
	R4P11 1.0019	S8 1.9235	.9201	S26 5.2890	.8360		
	R4P12 .9995	S9 2.2865	.9214				
		S10 2.6225	.8320				
		S27 5.3000	.8406				
		S28 1.4165	.9865				

SPIKE R6		COWL R5	
STAT XCW/KC= 3.5040	STAT XCW/KC= 3.3270		
S23 .8262	S23 .8262		
R6P1 .8942	R5P1 .8747		
R6P2 .9133	R5P2 .8748		
R6P3 .9102	R5P3 .8852		
R6P4 .9171	R5P4 .8846		
R6P5 .9231	R5P5 .8449		
R6P8 .9205	R5P6 .9073		
R6P9 .9064	R5P7 .9357		
R6P10 .8923	R5P8 .9784		
R6P11 .8688	R5P9 .9827		
	R5P10 .9697		
	R5P11 .9610		

YF-12 INLET NOISE SUPPRESSION STUDY
 RUN 134 FLIGHT DATE 09/20/79 SPIKE POS. DX/RC .0843 AMBIENT TEMP 293.9 DEG K
 FLIGHT NO. 0 BYPASS POS. OPEN AMBIENT PRESS .9201 ATMOS
 START 4151150.001 INTERVAL 1.000 ENG_FACE RECOV .8868 ENGINE M/M# 1.0058
 STOP 4152119.999 ENG COM RPM 5435. ENG_FACE MACH NO .3680 COWL M/M# .3540
 COWL LIP RECOV .9784 ADDITIVE M/M# .6518
 MACH AT COWL LIP .1149
 MAX-MIN DIST .1393
 K-CIRCUMF. .4774
 K-RADIAL .2549
 K-DELTA .0669
 K-A .3215

SPIKE R1		COWL M3		STAT XCW/RC# 5.4830	
STAT XCW/RC# .8467	STAT XCW/RC# .0700	36 DEG RAKE	198 DEG RAKE		
S2 .9710	S14 .9690	A36 .8923	A198 .9010		
R1P1 .9976	R3P1 .9695	H36 .8781	H198 .8948		
R1P2 .9993	R3P2 .9693	C36 .8643	C198 .8802		
R1P3 .9996	R3P3 .9694	D36 .8515	D198 .8515		
R1P4 .9953	R3P4 .9692	E36 .8418	E198 .8325		
R1P5 .9997	R3P5 .9692	90 DEG RAKE	252 DEG RAKE		
R1P6 .9999	R3P6 .9693	A90 .9561	A252 .9287		
R1P7 .9998	R3P7 .9862	B90 .9350	B252 .9001		
R1P8 .9996	R3P8 .9691	C90 .9049	C252 .8857		
R1P9 .9969	R3P9 .9688	D90 .8914	D252 .8814		
	R3P10 .9697	E90 .8780	E252 .8721		
	R3P11 .9752	144 DEG RAKE	324 DEG RAKE		
	R3P12 .9840	A144 .9160	A324 .9000		
	R3P13 1.0006	H144 .9096	H324 .8912		
	R3P14 1.0002	D144 .8842	D324 .8858		
	R3P15 1.0012	C144 .8702	C324 .8854		
	R3P16 1.0008	E144 .8563	E324 .8799		

SPIKE R2		COWL M4		STATIC PRESSURES			
STAT XCW/RC# 2.2417	STAT XCW/RC# 1.5380			SPIKE		COWL	
S9 .9068	S20 .8372	TAP	XCW/RC	P/PU	IAP	XCW/RC	P/PO
R2P1 .9605	R4P1 .9882	S1	.8977	.9710	S14	.0340	.9690
R2P2 .9878	R4P2 .9942	S2	.8467	.9710	S15	.1860	.9658
R2P3 .9783	R4P3 .9951	S11	.8467	.9708	S16	.4150	.9684
R2P4 .9521	R4P4 .9951	S12	.8467	.9717	S17	.8470	.9775
R2P5 .8772	R4P5 .9959	S13	.8467	.9727	S18	1.1740	.9613
	R4P6 .9968	S3	.9147	.9721	S19	1.4590	.9234
	R4P7 .9977	S4	1.1807	.9509	S20	1.5400	.8372
	R4P8 .9987	S5	1.4167	.9161	S21	1.8270	.9089
	R4P9 .9995	S6	1.8637	.9054	S22	2.7840	.7340
	R4P10 1.0003	S7	1.7917	.9060	S23	3.2980	.7916
	R4P11 1.0002	S8	1.9237	.9059	S26	5.2890	.8016
	R4P12 .9970	S9	2.2867	.9068			
		S10	2.8221	.7979			
		S17	5.3000	.8092			
		S28	1.4167	.9836			

SPIKE R6		COWL M5	
STAT XCW/RC# 3.5040	STAT XCW/RC# 3.3270		
S23 .7916	S23 .7916		
R6P1 .8725	R5P1 .8499		
R6P2 .8959	R5P2 .8542		
R6P3 .8923	R5P3 .8605		
R6P4 .8996	R5P4 .8674		
R6P5 .9055	R5P5 .8641		
R6P6 .9084	R5P6 .8807		
R6P9 .8903	R5P7 .9135		
R6P10 .8740	R5P8 .9710		
R6P11 .8422	R5P9 .9792		
	R5P10 .9640		
	R5P11 .9559		

VF-12 INLET NOISE SUPPRESSION STUDY

RUN	135	FLIGHT DATE	09/20/79	SPIKE POS. OX/RC	.0039	AMBIENT TEMP	294.4 DEG K	MAX-MIN DIST	.1519
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9198 ATMOS	K-CIRCUMF.	.4272
START	5: 3:50.003	INTERVAL	1.000	ENG. FACE RECOV	.8689	ENGINE M/M*	1.0678	K-RADIAL	.2488
STOP	5: 4:19.999	ENG COW RPM	5852.	ENG. FACE MACH NO	.4015	COWL M/M*	.3846	K-DELTA	.0827
				COWL LIP RECOV	.9559	ADDITIVE M/M*	.6831	K-A	.3315
				MACH AT COWL LIP	.1280				

SPIKE R1		COWL H3		STAT XCW/RC= 5.4850			
STAT XCW/RC=	.8471	STAT XCW/RC=	.0700	36 DEG RAKE	198 DEG RAKE		
S2	.9237	S14	.9664	A36	.8759	A198	.8857
R1P1	.9904	R3P1	.9671	B36	.8625	B198	.8786
R1P2	.9987	R3P2	.9666	C36	.8414	C198	.8682
R1P3	.9627	R3P3	.9666	D36	.8286	D198	.8252
R1P4	.9308	R3P4	.9669	E36	.8173	E198	.8188
R1P5	.9840	R3P5	.9665	90 DEG RAKE	252 DEG RAKE		
R1P6	.9828	R3P6	.9664	A90	.9493	A252	.9085
R1P7	.9941	R3P7	.9290	H90	.9234	H252	.8793
R1P8	.9946	R3P8	.9667	C90	.8886	C252	.8686
R1P9	.9824	R3P9	.9662	D90	.8664	D252	.8407
		R3P10	.9684	E90	.8572	E252	.8529
		R3P11	.9775	144 DEG RAKE	324 DEG RAKE		
		R3P12	.9868	A144	.9090	A324	.8797
		R3P13	1.0016	B144	.8967	B324	.8764
		R3P14	1.0009	D144	.8699	D324	.8700
		R3P15	1.0016	C144	.8526	C324	.8678
		R3P16	1.0016	E144	.8555	E324	.8705

SPIKE H2		COWL H4		STATIC PRESSURES			
STAT XCW/RC=	2.2421	STAT XCW/RC=	1.5580	SPIKE		COWL	
S9	.8907	S20	.8169	XCW/RC	P/PO	TAP	XCW/RC P/PO
H2P1	.9476	H4P1	.9888	S1	.8981	.9680	S14 .0340 .9664
H2P2	.9656	H4P2	.9953	S2	.8471	.9237	S15 .1860 .9629
H2P3	.9767	H4P3	.9956	S11	.8471	.9679	S16 .4150 .9665
H2P4	.9323	H4P4	.9959	S12	.8471	.9688	S17 .8470 .9757
H2P5	.8440	H4P5	.9973	S13	.8471	.9703	S18 1.1740 .9562
		H4P6	.9982	S3	.9151	.9695	S19 1.4590 .9141
		H4P7	.9985	S4	1.1811	.9455	S20 1.5400 .8169
		H4P8	.9993	S5	1.4171	.9062	S21 1.8270 .8973
		H4P9	.9994	S6	1.6641	.8928	S22 2.7840 .6910
		H4P10	1.0013	S7	1.7421	.8934	S23 3.2980 .7592
		H4P11	1.0010	S8	1.9241	.8929	S26 5.2890 .7717
		H4P12	.9967	S9	2.2871	.8907	
				S10	2.6231	.7640	
				S27	5.3000	.7786	
				S28	1.4171	.9821	

SPIKE H6		COWL H5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.7592	S23	.7542
H6P1	.8420	H5P1	.8263
H6P2	.8805	H5P2	.8325
H6P3	.8741	H5P3	.8352
H6P4	.8735	H5P4	.8436
H6P5	.8629	H5P5	.8554
H6P6	.8803	H5P6	.8641
H6P9	.8769	H5P7	.9008
H6P10	.8555	H5P8	.9638
H6P11	.8344	H5P9	.9736
		H5P10	.9600
		H5P11	.9513

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	136	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.0835	AMBIENT TEMP	295.6 DEG K	MAX=MIN DIST	.1985
		FLIGHT NU.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9196 ATMOS	K=CIRCUMF.	.3780
START	5: 5150.000	INTERVAL	1.000	ENG.FACE RECOV	.8543	ENGINE M/M*	1.1146	K=RADIAL	.2788
STOP	5: 6119.997	ENG LOU RPM	6095.	ENG.FACE MACH NO	.4372	COWL M/M*	.4060	K=DELTA	.0765
				COWL LIP RECOV	.9761	ADDITIVE M/M*	.7086	K=A	.3553
				MACH AT COWL LIP	.1325				

SPIKE R1		COWL R3		STAT XCW/RC= 5.4830	
STAT	XCW/RC= .8475	STAT	XCW/RC= .0700	36 DEG RAKE	198 DEG RAKE
S2	.9655	S14	.9628	A36	.8622 A198
R1P1	.9980	R3P1	.9656	B36	.8445 B198
R1P2	1.0003	R3P2	.9635	C36	.8238 C198
R1P3	1.0003	R3P3	.9657	D36	.8043 D198
R1P4	.9937	R3P4	.9653	E36	.7463 E198
R1P5	1.0004	R3P5	.9633	90 DEG RAKE	252 DEG RAKE
R1P6	1.0003	R3P6	.9635	A90	.9447 A252
R1P7	1.0002	R3P7	.9834	B90	.9112 B252
R1P8	.9997	R3P8	.9635	C90	.8747 C252
R1P9	.9978	R3P9	.9633	D90	.8508 D252
		R3P10	.9651	E90	.8346 E252
		R3P11	.9749	144 DEG RAKE	324 DEG RAKE
		R3P12	.9859	A144	.9075 A324
		R3P13	1.0019	B144	.8905 B324
		R3P14	.9996	C144	.8516 C324
		R3P15	1.0021	D144	.8337 D324
		R3P16	1.0017	E144	.8157 E324

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT	XCW/RC= 2.2425	STAT	XCW/RC= 1.5380	SPIKE		COWL	
S9	.8821	S20	.7971	XCW/RC	P/PO	TAP	XCW/RC
R2P1	.9485	R4P1	.9876	TAP		S14	.9628
R2P2	.9857	R4P2	.9945	S1	.8985	S15	.1860
R2P3	.9771	R4P3	.9955	S2	.8475	S16	.9601
R2P4	.9390	R4P4	.9961	S11	.8475	S17	.4150
R2P5	.8422	R4P5	.9971	S12	.8475	S18	.8470
		R4P6	.9981	S13	.8475	S19	1.1740
		R4P7	.9984	S3	.9155	S20	.9066
		R4P8	.9994	S4	1.1815	S21	1.5400
		R4P9	1.0001	S5	1.4175	S22	.7971
		R4P10	1.0013	S6	1.6645	S23	1.8270
		R4P11	1.0013	S7	1.7925	S24	2.7840
		R4P12	.9978	S8	1.9245	S25	3.2980
				S9	2.2075	S26	.7289
				S10	2.6235		5.2890
				S27	5.3000		.7421
				S28	1.4175		.9808

SPIKE R6		COWL R5	
STAT	XCW/RC= 3.5046	STAT	XCW/RC= 3.3270
S23	.7289	S23	.7289
R6P1	.8343	R5P1	.8068
R6P2	.8639	R5P2	.8121
R6P3	.8612	R5P3	.8200
R6P4	.8721	R5P4	.8219
R6P5	.8802	R5P5	.8349
R6P6	.8849	R5P6	.8446
R6P9	.8640	R5P7	.8458
R6P10	.8397	R5P8	.9008
R6P11	.8022	R5P9	.9684
		R5P10	.9598
		R5P11	.9442

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	137	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.0842	AMBIENT TEMP	296.1 DEG K	MAX-MIN DIST	.2173
		FLIGHT NO.	0	HYPASS POS.	OPEN	AMBIENT PRESS	0.9205 ATMUS	K-CIRCUMF.	.3271
START	5: 8130.000	INTERVAL	1.000	ENG. FALLE RECOV	.8421	ENGINE M/M*	1.1588	K-RADIAL	.2641
STOP	5:10150.000	ENG COU RPM	6277.	ENG. FACE MACH NO	.4534	COWL M/M*	.4107	K-DELTA	.0598
				COWL LIP RECOV	.9748	ADDITIVE M/M*	.7481	K-A	.3239
				MACH AT COWL LIP	.1342				

SPIKE R1		COWL R3		STAT XCW/RC# 5.4830	
STAT	XCW/RC# .8468	STAT	XCW/RC# .0700	30 DEG	RAKE 198 DEG
S2	.9649	S14	.9603	A36	.8500 A198 .8690
R1P1	.9967	R3P1	.9608	B36	.8345 B198 .8540
R1P2	.9989	R3P2	.9608	C36	.8140 C198 .8472
R1P3	1.0003	R3P3	.9608	D36	.7973 D198 .7883
R1P4	.9937	R3P4	.9607	E36	.7817 E198 .7549
R1P5	1.0001	R3P5	.9607	90 DEG	RAKE 252 DEG
R1P6	1.0007	R3P6	.9608	A90	.9374 A252 .8999
R1P7	.9999	R3P7	.9817	B90	.9091 B252 .8544
R1P8	1.0011	R3P8	.9606	C90	.8643 C252 .8382
R1P9	.9975	R3P9	.9605	D90	.8390 D252 .8295
		R3P10	.9633	E90	.8227 E252 .8160
		R3P11	.9749	144 DEG	RAKE 324 DEG
		R3P12	.9653	A144	.8457 A324 .8658
		R3P13	1.0017	B144	.8756 B324 .8528
		R3P14	1.0005	D144	.8357 C324 .8450
		R3P15	1.0015	C144	.8183 D324 .8410
		R3P16	1.0010	E144	.8008 E324 .8329

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT	XCW/RC# 2.2418	STAT	XCW/RC# 1.5380	SPIKE		COWL	
S9	.8747	S20	.7849	XCW/RC	P/PO	IAP	XCW/RC P/PO
R2P1	.9076	R4P1	.9855	S1	.8978 .9630	S14	.0340 .9603
R2P2	.9833	R4P2	.9939	S2	.8468 .9649	S15	.1860 .9567
R2P3	.9736	R4P3	.9944	S11	.8468 .9643	S16	.4150 .9638
R2P4	.9339	R4P4	.9949	S12	.8468 .9643	S17	.8470 .9721
R2P5	.8322	R4P5	.9956	S13	.8468 .9649	S18	1.1740 .9505
		R4P6	.9962	S3	.9148 .9654	S19	1.4590 .9002
		R4P7	.9977	S4	1.1808 .9371	S20	1.5400 .7849
		R4P8	.9984	S5	1.4168 .8904	S21	1.8270 .8792
		R4P9	.9994	S6	1.8638 .8744	S22	2.7840 .6181
		R4P10	1.0003	S7	1.7918 .8752	S23	3.2980 .7088
		R4P11	.9944	S8	1.9238 .8749	S26	5.2890 .7241
		R4P12	.9953	S9	2.2668 .8747		
				S10	2.0228 .7118		
				S27	5.3000 .7317		
				S28	1.4168 .9797		

SPIKE R6		COWL R5	
STAT	XCW/RC# 3.5040	STAT	XCW/RC# 3.3276
S23	.7088	S23	.7088
R6P1	.8220	R5P1	.7920
R6P2	.8507	R5P2	.7985
R6P3	.8505	R5P3	.8053
R6P4	.8607	R5P4	.8126
R6P5	.8733	R5P5	.8226
R6P6	.8744	R5P6	.8396
R6P9	.8524	R5P7	.8965
R6P10	.8265	R5P8	.9615
R6P11	.7828	R5P9	.9663
		R5P10	.9576
		R5P11	.9409

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	138	FLIGHT DATE	09/20/79	SPIKE PUS. OX/RC	.0836	AMBIENT TEMP	296.1 DEG K	MAX-MIN DIST	.2381
		FLIGHT NO.	0	BYPASS PUS. OPEN		AMBIENT PRESS	.9196 ATMOS	K-CIRCUMF.	.2878
START	5:10:50.000	INTERVAL	1.000	ENG. FALF RECOV	.8527	ENGINE M/M*	1.2020	K-RADIAL	.2753
STOP	5:13:00.003	ENG CUM KPM	6486.	ENG. FALF MACH NO	.4764	COWL M/M*	.4303	K-DELTA	.0486
				COWL LIP RECOV	.9740	ADDITIVE M/M*	.7717	K-A	.3240
				MACH AT COWL LIP	.1409				

SPIKE R1		COWL K3		STAT XCN/MC# 5.4830			
STAT	XCN/RC# .8474	STAT	XLW/MC# .0700	36 DEG	RAKE	198 DEG	RAKE
S2	.9621	S14	.9591	A36	.8424	A198	.8626
R1P1	.9982	R3P1	.9549	B36	.8246	B198	.8488
R1P2	1.0005	R3P2	.9549	C36	.8001	C198	.8377
R1P3	1.0006	R3P3	.9601	D36	.7805	D198	.7713
R1P4	.9945	R3P4	.9602	E36	.7675	E198	.7358
R1P5	1.0008	R3P5	.9598	90 DEG	RAKE	252 DEG	RAKE
R1P6	1.0009	R3P6	.9597	A90	.9341	A252	.8983
R1P7	1.0011	R3P7	.9825	H90	.8965	H252	.8536
R1P8	1.0002	R3P8	.9594	C90	.8476	C252	.8314
R1P9	.9974	R3P9	.9595	D90	.8238	D252	.8239
		R3P10	.9621	E90	.8045	E252	.8075
		R3P11	.9733	144 DEG	RAKE	324 DEG	RAKE
		R3P12	.9854	A144	.8491	A324	.8627
		R3P13	1.0023	H144	.8727	H324	.8495
		R3P14	1.0014	D144	.8259	D324	.8330
		R3P15	1.0025	C144	.8052	U324	.8300
		R3P16	1.0024	E144	.7844	E324	.8228

SPIKE K2		COWL K4		STATIC PRESSURES			
STAT	XCN/RC# 2.2424	STAT	XLW/MC# 1.5380	SPIKE		COWL	
S9	.8696	S20	.7773	XCN/RC	P/PU	TAP	XCN/RC
R2P1	.9458	R4P1	.9462	S1	.8984	S14	.0340
R2P2	.9856	R4P2	.9939	S2	.8474	S15	.1860
R2P3	.9714	R4P3	.9936	S11	.8474	S16	.4150
R2P4	.9305	R4P4	.9958	S12	.8474	S17	.8470
R2P5	.8203	R4P5	.9972	S13	.8474	S18	1.1740
		R4P6	.9964	S3	.9154	S19	1.4590
		R4P7	.9940	S4	1.1814	S20	1.5400
		R4P8	.9944	S5	1.4174	S21	1.8270
		R4P9	1.0003	S6	1.6044	S22	2.7840
		R4P10	1.0010	S7	1.7424	S23	3.2980
		R4P11	1.0011	S8	1.9244	S26	5.2890
		R4P12	.9978	S9	2.2874		.7040
				S10	2.0234		.6910
				S27	5.3000		.7139
				S28	1.4174		.9794

SPIKE R6		COWL K5	
STAT	XCN/RC# 3.5040	STAT	XLW/MC# 3.3270
S23	.6896	S23	.6896
R6P1	.8098	R5P1	.7796
R6P2	.8313	R5P2	.7865
R6P3	.8406	R5P3	.7934
R6P4	.8535	R5P4	.8011
R6P5	.8695	R5P5	.8115
R6P8	.8703	R5P6	.8267
R6P9	.8443	R5P7	.8824
R6P10	.8204	R5P8	.9541
R6P11	.7716	R5P9	.9652
		R5P10	.9574
		R5P11	.9372

YF-12 INLET NOISE SUPPRESSION STUDY
 RUN 139 FLIGHT DATE 09/20/79 SPIKE POS. DX/RC .0831 AMBIENT TEMP 296.1 DEG K MAX=MIN DIST .2457
 FLIGHT NO. 0 BYPASS POS. OPEN AMBIENT PRESS .9203 ATMOS K-CIRCUF. .2792
 START 5:13: .003 INTERVAL 1.000 ENG.FACE RECOV .8227 ENGINE M/M* 1.2262 K-RADIAL .2662
 STOP 5:14:30.000 ENG CUM RPM 6678. ENG.FACE MACH NO .4915 COWL M/M* .4525
 COWL LIP RECOV .9734 ADDITIVE M/M* .7736 K-DELTA .0575
 MACH AT COWL LIP .1484 K-A .3237

STAT SPIKE #1 COWL #3 STAT XCW/RC= 5.4830
 STAT XCW/RC= .8479 STAT XCW/RC= .0700 36 DEG WAKE 198 DEG WAKE
 S2 .9608 S14 .9564 A36 .8331 A198 .8559
 R1P1 .9970 R3P1 .9582 B36 .8123 B198 .8410
 R1P2 .9995 R3P2 .9584 C36 .7846 C198 .8336
 R1P3 1.0002 R3P3 .9578 D36 .7677 D198 .7635
 R1P4 .9936 R3P4 .9579 E36 .7500 E198 .7239
 R1P5 1.0004 R3P5 .9576 90 DEG WAKE 252 DEG WAKE
 R1P6 1.0008 R3P6 .9576 A90 .9260 A252 .8835
 R1P7 1.0004 R3P7 .9790 B90 .8899 B252 .8343
 R1P8 .9996 R3P8 .9569 C90 .8372 C252 .8241
 R1P9 .9980 R3P9 .9577 D90 .8118 D252 .8093
 R3P10 .9619 E90 .7950 E252 .7948
 R3P11 .9740 144 DEG WAKE 324 DEG WAKE
 R3P12 .9848 A144 .8482 A324 .8558
 R3P13 1.0016 B144 .8668 B324 .8346
 R3P14 1.0005 D144 .8137 C324 .8239
 R3P15 1.0020 R3P15 1.0020 C144 .7934 O324 .8197
 R3P16 1.0016 E144 .7741 E324 .8136

STAT SPIKE #2 COWL #4 STATIC PRESSURES
 STAT XCW/RC= 2.2429 STAT XCW/RC= 1.5380 S20 .7700
 S9 .8632 S20 .7700 TAP XCW/RC P/PU IAP COWL P/PU
 R2P1 .9428 R4P1 .9842 S1 .8989 .9602 S14 .0340 .9564
 R2P2 .9829 R4P2 .9932 S2 .8479 .9608 S15 .1860 .9536
 R2P3 .9711 R4P3 .9943 S11 .8479 .9619 S16 .4150 .9572
 R2P4 .9285 R4P4 .9951 S12 .8479 .9626 S17 .8470 .9705
 R2P5 .8123 R4P5 .9958 S13 .8479 .9624 S18 1.1740 .9474
 R4P6 .9962 S3 .9154 .9628 S19 1.4590 .8928
 R4P7 .9974 S4 1.1819 .9323 S20 1.5400 .7700
 R4P8 .9986 S5 1.4179 .8820 S21 1.8270 .8698
 R4P9 .9999 S6 1.8044 .8634 S22 2.7840 .5633
 R4P10 1.0006 S7 1.7424 .8647 S23 3.2980 .6742
 R4P11 1.0007 S8 1.9249 .8648 S26 5.2890 .6883
 R4P12 .9963 S9 2.2879 .8632
 S10 2.0234 .6726
 S27 5.3000 .6986
 S28 1.4179 .9778

STAT SPIKE #6 COWL #5
 STAT XCW/RC= 3.5040 STAT XCW/RC= 3.3270 S23 .6742
 S23 .6742 S23 .6742
 R6P1 .7988 R5P1 .7653
 R6P2 .8174 R5P2 .7772
 R6P3 .8335 R5P3 .7814
 R6P4 .8479 R5P4 .7884
 R6P5 .8560 R5P5 .8012
 R6P8 .8651 R5P6 .8286
 R6P9 .8374 R5P7 .8744
 R6P10 .8059 R5P8 .9527
 R6P11 .7559 R5P9 .9636
 R5P10 .9550
 R5P11 .9344

YF-12 INLET NOISE SUPPRESSION STUDY
 RUN 142 FLIGHT DATE 09/20/79 SPIKE POS. OX/HC .8557 AMBIENT TEMP 296.1 DEG K MAX-MIN DIST .0558
 FLIGHT NO. 0 BYPASS POS. OPEN AMBIENT PRESS .9205 ATMUS K-CIRCUMF. .5169
 START 5:25:50.002 INTERVAL 1.000 ENG_FACE MECOV .9416 ENGINE M/M* .5577 K-RADIAL .1819
 STOP 5:26:20.000 ENG COX RPM 5007. ENG_FACE MACH NO .3223 CUWL M/M* .3370 K-DELTA .0383
 CUWL LIP MECOV .9704 ADDITIVE M/M* .2207 K-A .1901
 MACH AT CUWL LIP .1998

SPIKE R1		CUWL N3		STAT XCW/HC# 5.4830	
STAT	XCW/RC# .0753	STAT	XCW/HC# .0700	36 DEG	RAKE
S2	.9655	S14	.9220	A36	.9515
R1P1	1.0002	R3P1	.9208	B36	.9420
R1P2	1.0008	R3P2	.9208	C36	.9280
R1P3	1.0007	R3P3	.9203	D36	.9201
R1P4	.9997	R3P4	.9206	E36	.9142
R1P5	1.0008	R3P5	.9208	90 DEG	RAKE
R1P6	1.0009	R3P6	.9210	A90	.9028
R1P7	1.0007	R3P7	.9841	B90	.9039
R1P8	1.0006	R3P8	.9440	C90	.9538
R1P9	.9995	R3P9	.9826	D90	.9473
		R3P10	1.0009	E90	.9441
		R3P11	1.0030	144 DEG	RAKE
		R3P12	.9986	A144	.9550
		R3P13	1.0036	B144	.9540
		R3P14	1.0032	D144	.9388
		R3P15	1.0034	C144	.9337
		R3P16	1.0035	E144	.9287

SPIKE H2		CUWL H4		STATIC PRESSURES			
STAT	XCW/RC# 1.4703	STAT	XCW/RC# 1.5380	TAP	SPIKE	TAP	CUWL
				XCW/HL	P/PO	XCW/RC	P/PO
S9	.9448	S20	.9099	S1	.0737	S14	.0340
H2P1	.9517	H4P1	.9803	S2	.0753	S15	.1860
H2P2	.9584	H4P2	.9856	S11	.0753	S16	.4150
H2P3	.9716	H4P3	.9868	S12	.0753	S17	.8470
H2P4	.9834	H4P4	.9871	S13	.0753	S18	1.1740
H2P5	.9855	H4P5	.9875	S3	.1433	S19	1.4590
		H4P6	.9875	S4	.4093	S20	1.5400
		H4P7	.9875	S5	.6453	S21	1.8270
		H4P8	.9868	S6	.8923	S22	2.7840
		H4P9	.9870	S7	1.0203	S23	3.2980
		H4P10	.9864	S8	1.1523	S26	5.2890
		H4P11	.9867	S9	1.5153		
		H4P12	.9862	S10	1.8513		
				S27	5.3000		
				S28	.6453		

SPIKE R6		CUWL H5	
STAT	XCW/RC# 3.5040	STAT	XCW/RC# 3.3270
S23	.8736	S23	.8736
R6P1	.9370	R5P1	.9194
R6P2	.9899	R5P2	.9249
R6P3	.9555	R5P3	.9200
R6P4	.9627	R5P4	.9282
R6P5	.9647	R5P5	.9325
R6P8	.9658	R5P6	.9440
R6P9	.9622	R5P7	.9617
R6P10	.9561	R5P8	.9748
R6P11	.9382	R5P9	.9733
		R5P10	.9704
		R5P11	.9702

YF-12 INLET NOISE SUPPRESSION STUDY
 RUN 143 FLIGHT DATE 09/20/79 SPIKE POS. DX/RC .8562 AMBIENT TEMP 296.1 DEG K
 FLIGHT NO. 0 BYPASS POS. OPEN AMBIENT PRESS .9206 ATMOS
 START 5:28:25.001 INTERVAL 1.000 ENG. FACE RECOV .9259 ENGINE M/M* .5951
 STOP 5:28:55.000 ENG COR RPM 5516. ENG. FACE MACH NO .3714 COWL M/M* .3743
 COWL LIP RECOV .9623 ADDITIVE M/M* .2208
 MACH AT COWL LIP .2252
 MAX-MIN DIST .0734
 K-CIRCUMF. .4362
 K-RADIAL .1872
 K-DELTA .0347
 K-A .2219

SPIKE R1 STAT XCW/RC = .0748 COWL R3 STAT XCW/RC = .0700 STAT XCM/KC = 5.4830
 S2 .9560 S14 .9018 A36 .9388 A198 .9413
 R1P1 1.0002 R3P1 .8998 B36 .9272 B198 .9431
 R1P2 1.0000 R3P2 .8987 C36 .9077 C198 .9300
 R1P3 1.0007 R3P3 .8994 D36 .9041 D198 .9057
 R1P4 .9987 R3P4 .8992 E36 .8911 E198 .8871
 R1P5 1.0010 R3P5 .8989 90 DEG MAKE 252 DEG MAKE
 R1P6 1.0010 R3P6 .8995 A90 .9551 A252 .9506
 R1P7 1.0012 R3P7 .9789 B90 .9534 B252 .9338
 R1P8 1.0014 R3P8 .9340 C90 .9597 C252 .9166
 R1P9 .9989 R3P9 .9828 D90 .9310 D252 .9114
 R3P10 1.0014 E90 .9231 E252 .9035
 R3P11 1.0024 144 DEG MAKE 324 DEG MAKE
 R3P12 .9975 A144 .9500 A324 .9423
 R3P13 1.0031 B144 .9448 B324 .9436
 R3P14 1.0028 D144 .9164 D324 .9301
 R3P15 1.0027 C144 .9121 C324 .9199
 R3P16 1.0026 E144 .9077 E324 .9099

SPIKE R2 STAT XCW/RC = 1.4698 COWL R4 STAT XCW/RC = 1.5380 STATIC PRESSURES
 S9 .9291 S20 .8859 SPIKE COWL
 R2P1 .9379 R4P1 .9731 TAP XCM/KC P/PO TAP XCW/RC P/PO
 R2P2 .9472 R4P2 .9798 S1 -.0742 .9870 S14 .0340 .9018
 R2P3 .9632 R4P3 .9818 S2 .0748 .9560 S15 .1860 .8948
 R2P4 .9797 R4P4 .9828 S11 .0748 .9558 S16 .4150 .9294
 R2P5 .9825 R4P5 .9835 S12 .0748 .9569 S17 .8470 .9233
 R4P6 .9835 S13 .0748 .9570 S18 1.1740 .9293
 R4P7 .9836 S3 .1428 .9380 S19 1.4590 .9296
 R4P8 .9837 S4 .4088 .9060 S20 1.5400 .8859
 R4P9 .9828 S5 .6448 .9098 S21 1.8270 .9262
 R4P10 .9833 S6 .8918 .9112 S22 2.7840 .8137
 R4P11 .9828 S7 1.0198 .9149 S23 3.2980 .8363
 R4P12 .9824 S8 1.1518 .9209 S26 5.2890 .8380
 S9 1.5148 .9291
 S10 1.8508 .9260
 S27 5.3000 .8434
 S28 .6448 .9755

SPIKE R6 STAT XCW/RC = 3.5040 COWL R5 STAT XCW/RC = 3.3270
 S23 .8363 S23 .8363
 R6P1 .9205 R5P1 .8938
 R6P2 .9366 R5P2 .9015
 R6P3 .9455 R5P3 .9042
 R6P4 .9512 R5P4 .9097
 R6P5 .9547 R5P5 .9161
 R6P8 .9571 R5P6 .9244
 R6P9 .9531 R5P7 .9473
 R6P10 .9459 R5P8 .9602
 R6P11 .9222 R5P9 .9676
 R5P10 .9617
 R5P11 .9618

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	144	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.8561	AMBIENT TEMP	296.1 DEG K	MAX=MIN DIST	.0882
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9196 ATMOS	K=CIRCUMF.	.4155
START	5:30:25.001	INTERVAL	1.000	ENG. FACE RECOV	.9186	ENGINE M/M#	.6174	K=RADIAL	.1801
STOP	5:30:54.999	ENG CLK RPM	5752.	ENG. FACE MACH NO	.3963	COWL M/M#	.3913		
				COWL LIP RECOV	.9590	ADDITIVE M/M#	.2260	K=DELTA	.0512
				MACH AT COWL LIP	.2370			K=A	.2312

SPIKE R1		COWL K3		STAT XCW/RC= 5.4830			
STAT XCW/RC=	.0749	STAT XCW/RC=	.0700	36 DEG	HAKE	198 DEG	HAKE
S2	.9527	S14	.8917	A36	.9334	A198	.9329
R1P1	1.0005	R3P1	.8904	B36	.9197	B198	.9400
R1P2	1.0011	R3P2	.8901	C36	.9001	C198	.9297
R1P3	1.0013	R3P3	.8903	D36	.8876	D198	.8965
R1P4	.9996	R3P4	.8897	E36	.8796	E198	.8750
R1P5	1.0014	R3P5	.8903	90 DEG	HAKE	252 DEG	HAKE
R1P6	1.0006	R3P6	.8902	A90	.9524	A252	.9394
R1P7	1.0013	R3P7	.9760	B90	.9491	B252	.9180
R1P8	1.0008	R3P8	.9280	C90	.9326	C252	.9062
R1P9	.9995	R3P9	.9818	D90	.9203	D252	.9009
		R3P10	1.0020	E90	.9132	E252	.8919
		R3P11	1.0036	144 DEG	HAKE	324 DEG	HAKE
		R3P12	.9979	A144	.9435	A324	.9379
		R3P13	1.0039	B144	.9440	B324	.9393
		R3P14	1.0041	D144	.9160	C324	.9240
		R3P15	1.0040	C144	.9121	D324	.9141
		R3P16	1.0040	E144	.9082	E324	.9010

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/RC=	1.4699	STAT XCW/RC=	1.5380	SPIKE		COWL	
S9	.9232	S20	.8728	XCW/RC	P/PO	IAP	P/PO
R2P1	.9322	R4P1	.9721	S1	.0741	S14	.0340
R2P2	.9407	R4P2	.9799	S2	.0749	S15	.1860
R2P3	.9595	R4P3	.9810	S11	.0749	S16	.4150
R2P4	.9783	R4P4	.9821	S12	.0749	S17	.4470
R2P5	.9813	R4P5	.9828	S13	.0749	S18	1.1740
		R4P6	.9828	S3	.1429	S19	1.4590
		R4P7	.9830	S4	.4084	S20	1.5400
		R4P8	.9834	S5	.6444	S21	1.8270
		R4P9	.9835	S6	.8914	S22	2.7840
		R4P10	.9827	S7	1.0199	S23	3.2980
		R4P11	.9818	S8	1.1514	S26	5.2890
		R4P12	.9803	S9	1.5149		.8192

SPIKE R6		COWL K5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.8180	S23	.8180
R6P1	.9085	K5P1	.8837
R6P2	.9263	K5P2	.8903
R6P3	.9407	K5P3	.8960
R6P4	.9462	K5P4	.8983
R6P5	.9513	K5P5	.9059
R6P6	.9539	K5P6	.9197
R6P9	.9499	K5P7	.9447
R6P10	.9409	K5P8	.9651
R6P11	.9171	K5P9	.9618
		K5P10	.9587
		K5P11	.9566

YF-12 INLET NOISE SUPPRESSION STUDY
 RUN 145 FLIGHT DATE 09/20/79 SPIKE POS. DX/RC .8582 AMBIENT TEMP 287.2 DEG K
 FLIGHT NO. 0 BYPASS POS. OPEN AMBIENT PRESS 49173 ATMOS
 START 11:53:31.000 INTERVAL 1.000 ENG_FACE RECOV .9743 ENGINE M/M* 44906
 STOP 11:541 .998 ENG COR RPM 3795. ENG_FACE MACH NO .2140 COWL M/M* .2706
 COWL LIP RECOV .9817 ADDITIVE M/M* J2200
 MACH AT COWL LIP .1571
 K-CIRCUMF. .7861
 K-RADIAL .0879
 K-DELTA .0621
 K-A .1500

SPIKE R1		COWL K3		STAT XCW/RC= 5.4830	
STAT XCW/RC= .0728	STAT XCW/RC= .0700	36 DEG	RAKE	198 DEG	RAKE
S2 .9787	S14 .9511	A36	.9726	A198	.9817
R1P1 1.0018	R3P1 .9498	B36	.9690	B198	.9832
R1P2 1.0018	R3P2 .9495	C36	.9647	C198	.9830
R1P3 1.0014	R3P3 .9495	D36	.9616	D198	.9718
R1P4 1.0019	R3P4 .9495	E36	.9597	E198	.9659
R1P5 1.0017	R3P5 .9495	90 DEG	RAKE	252 DEG	RAKE
R1P6 1.0014	R3P6 .9495	A90	.9643	A252	.9810
R1P7 1.0017	R3P7 1.0018	B90	.9848	B252	.9764
R1P8 1.0018	R3P8 .9594	C90	.9806	C252	.9746
R1P9 1.0010	R3P9 .9611	D90	.9763	D252	.9723
	R3P10 .9481	E90	.9743	E252	.9677
	R3P11 1.0013	144 DEG	RAKE	324 DEG	RAKE
	R3P12 .9992	A144	.9840	A324	.9780
	R3P13 1.0026	B144	.9802	B324	.9772
	R3P14 1.0025	D144	.9730	C324	.9735
	R3P15 1.0026	C144	.9704	D324	.9713
	R3P16 1.0026	E144	.9678	E324	.9682

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/RC= 1.4678	STAT XCW/RC= 1.5380			SPIKE		COWL	
S9 .9743	S20 .9651	TAP	XCW/RC	P/PU	TAP	XCW/RC	P/PU
R2P1 .9909	K4P1 .9794	S1	.0728	.9949	S14	.0340	.9511
R2P2 .9958	K4P2 .9819	S2	.0728	.9787	S15	.1860	.9486
R2P3 .9935	K4P3 .9829	S11	.0728	.9772	S16	.4150	.9546
R2P4 .9874	K4P4 .9833	S12	.0728	.9748	S17	.8470	.9690
R2P5 .9835	K4P5 .9837	S13	.0728	.9777	S18	1.1740	.9730
	K4P6 .9843	S3	.1408	.9668	S19	1.4590	.9734
	K4P7 .9852	S4	.4068	.9512	S20	1.5400	.9651
	K4P8 .9856	S5	.6428	.9621	S21	1.8270	.9719
	K4P9 .9862	S6	.8898	.9696	S22	2.7840	.9327
	K4P10 .9868	S7	1.0178	.9716	S23	3.2980	.9422
	K4P11 .9876	S8	1.1498	.9719	S26	5.2890	.9423
	K4P12 .9874	S9	1.5128	.9743			
		S10	1.8488	.9906			
		S27	5.3000	.9443			
		S28	.6428	1.0006			
SPIKE R6		COWL K5					
STAT XCW/RC= 3.5040	STAT XCW/RC= 3.3270						
S23 .9422	S23 .9422						
K6P1 .9713	K5P1 .9628						
K6P2 .9779	K5P2 .9645						
K6P3 .9801	K5P3 .9664						
K6P4 .9827	K5P4 .9696						
K6P5 .9841	K5P5 .9675						
K6P6 .9817	K5P6 .9731						
K6P9 .9776	K5P7 .9749						
K6P10 .9738	K5P8 .9859						
K6P11 .9670	K5P9 .9852						
	K5P10 .9855						
	K5P11 .9847						

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	146	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	287.2 DEG K	MAX-MIN DIST	.0367
		FLIGHT NU.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9172 ATMOS	K-CIRCUMF.	.0647
START	1156:3.000	INTERVAL	1.000	ENG. FACE RECOV	.9642	ENGINE M/M*	.5155	K-RADIAL	.1127
STOP	1156:33.000	ENG CON RPM	4246.	ENG. FACE MACH NU	.2554	COWL M/M*	.3139	K-DELTA	.0703
				COWL LIP RECOV	.9741	ADDITIVE M/M*	.2017	K-A	.1830
				MACH AT COWL LIP	.1847				

SPIKE R1		COWL K3		STAT XCW/RC# 5.4830			
STAT XCW/RC#	.0728	STAT XCW/RC#	.0700	36 DEG RAKE	198 DEG RAKE		
S2	.9704	S14	.9319	A36	.9624	A198	.9754
R1P1	1.0015	R3P1	.9300	B36	.9570	B198	.9771
R1P2	1.0016	R3P2	.9299	C36	.9511	C198	.9767
R1P3	1.0018	R3P3	.9298	D36	.9475	D198	.9604
R1P4	1.0018	R3P4	.9298	E36	.9436	E198	.9530
R1P5	1.0018	R3P5	.9299	90 DEG RAKE	252 DEG RAKE		
R1P6	1.0018	R3P6	.9298	A90	.9790	A252	.9730
R1P7	1.0018	R3P7	1.0017	B90	.9785	B252	.9657
R1P8	1.0017	R3P8	.9443	C90	.9736	C252	.9632
R1P9	1.0003	R3P9	.9728	D90	.9684	D252	.9609
		R3P10	.9963	E90	.9640	E252	.9540
		R3P11	1.0019	144 DEG RAKE	324 DEG RAKE		
		R3P12	.9978	A144	.9776	A324	.9690
		R3P13	1.0022	B144	.9723	B324	.9699
		R3P14	1.0021	D144	.9618	C324	.9645
		R3P15	1.0023	C144	.9568	D324	.9609
		R3P16	1.0022	E144	.9519	E324	.9564

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/RC#	1.4678	STAT XCW/RC#	1.5380				
S9	.9619	S20	.9514	TAP	SPIKE	COWL	
R2P1	.9864	K4P1	.9720	S1	XCW/RC	P/PO	
R2P2	.9950	K4P2	.9743	S2	.0728	S14	.0340
R2P3	.9899	K4P3	.9753	S11	.0728	S15	.1860
R2P4	.9819	K4P4	.9755	S12	.0728	S16	.4150
R2P5	.9766	K4P5	.9772	S13	.0728	S17	.8470
		K4P6	.9773	S3	.1408	S18	1.1740
		K4P7	.9783	S4	.4068	S19	1.4590
		K4P8	.9787	S5	.0428	S20	1.5400
		K4P9	.9795	S6	.8898	S21	1.8270
		K4P10	.9811	S7	1.0178	S22	2.7840
		K4P11	.9823	S8	1.1498	S23	3.2980
		K4P12	.9826	S9	1.5128	S26	5.2890
				S10	1.8488		
				S27	5.3000		
				S28	.0428		

SPIKE R6		COWL K5	
STAT XCW/RC#	3.5040	STAT XCW/RC#	3.3270
S23	.9188	S23	.9188
R6P1	.9615	R5P1	.9477
R6P2	.9688	R5P2	.9503
R6P3	.9731	R5P3	.9530
R6P4	.9760	R5P4	.9553
R6P5	.9778	R5P5	.9586
R6P8	.9738	R5P6	.9636
R6P9	.9696	R5P7	.9700
R6P10	.9656	R5P8	.9794
R6P11	.9539	R5P9	.9808
		R5P10	.9792
		R5P11	.9779

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	147	FLIGHT DATE	09/20/79	SPIKE POS.	DX/RC	.8582	AMBIENT TEMP	288.3 DEG K	MAX=MIN DIST	.0468
		FLIGHT NO.	0	BYPASS POS.	UPEN		AMBIENT PRESS	.9171 ATMUS	K=CIRCUMF.	.6320
START	1:57:45.000	INTERVAL	1.000	ENG. FACE RECOV		.9531	ENGINE M/M*	.5397	K=RADIAL	.1332
STOP	1:58:15.000	ENG CUR RPM	4633.	ENG. FACE MACH NO		.2940	COWL M/M*	.3540	K=DELTA	.1054
				COWL LIP RECOV		.4665	ADDITIVE M/M*	.1857	K=A	.2386
				MACH AT COWL LIP		.2113				

SPIKE R1		COWL R3		STAT XLW/RC= 5.4830	
STAT XCW/RC=	.0728	STAT XCW/RC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9621	S14	.9117	A36	.9507
R1P1	1.0014	R3P1	.9105	B36	.9454
R1P2	1.0020	R3P2	.9102	C36	.9383
R1P3	1.0022	R3P3	.9096	D36	.9318
R1P4	1.0020	R3P4	.9096	E36	.9292
R1P5	1.0020	R3P5	.9098	90 DEG HAKE	252 DEG HAKE
R1P6	1.0021	R3P6	.9094	A90	.9738
R1P7	1.0021	R3P7	1.0018	B90	.9734
R1P8	1.0020	R3P8	.9295	C90	.9662
R1P9	1.0005	R3P9	.9692	D90	.9589
		R3P10	.9968	E90	.9550
		R3P11	1.0019	144 DEG HAKE	324 DEG HAKE
		R3P12	.9972	A144	.9736
		R3P13	1.0025	B144	.9674
		R3P14	1.0024	D144	.9511
		R3P15	1.0025	C144	.9426
		R3P16	1.0025	E144	.9341
				B324	.9574
				D324	.9537
				B324	.9485
				E324	.9433

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/RC=	1.4678	STAT XCW/RC=	1.5380	SPIKE		COWL	
S9	.9517	S20	.9374	XCW/RC	P/PO	IAP	P/PO
R2P1	.9832	R4P1	.9648	S1	.0762	S14	.0340
R2P2	.9909	R4P2	.9665	S2	.0728	S15	.1860
R2P3	.9834	R4P3	.9681	S11	.0728	S16	.4150
R2P4	.9749	R4P4	.9679	S12	.0728	S17	.8470
R2P5	.9683	R4P5	.9679	S13	.0728	S18	1.1740
		R4P6	.9689	S3	.1408	S19	1.4590
		R4P7	.9706	S4	.4068	S20	1.5400
		R4P8	.9718	S5	.6428	S21	1.8270
		R4P9	.9718	S6	.8898	S22	2.7840
		R4P10	.9735	S7	1.0178	S23	3.2980
		R4P11	.9751	S8	1.1498	S26	5.2890
		R4P12	.9766	S9	1.5128		.8947
				S10	1.8488		.9496
				S27	5.5000		.8792
				S28	.6428		.8940

SPIKE R6		COWL R5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.8940	S23	.8940
R6P1	.9501	R5P1	.9314
R6P2	.9599	R5P2	.9339
R6P3	.9643	R5P3	.9377
R6P4	.9691	R5P4	.9398
R6P5	.9706	R5P5	.9438
R6P8	.9657	R5P6	.9499
R6P9	.9599	R5P7	.9592
R6P10	.9554	R5P8	.9720
R6P11	.9410	R5P9	.9743
		R5P10	.9729
		R5P11	.9696

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	148	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	288.3 DEG K	MAX-MIN DIST	.0608
START	1159:55.001	FLIGHT NU.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9174 ATMOS	K-CIRCUMF.	.5778
STOP	21:0124.998	INTERVAL	1.000	ENG_FACE RECOV	.9408	ENGINE M/M*	.5635	K-RADIAL	.1536
		ENG COM RPM	5014.	ENG_FACE MACH NO	.3330	COWL M/M*	.3894		
				COWL LIP RECOV	.9570	ADDITIVE M/M*	.1741	K-DELTA	.1105
				MACH AT COWL LIP	.2363			K-A	.2641

SPIKE R1		COWL K3		STAT XCM/RC= 5.4830			
STAT XCM/RC=	.0728	STAT XCM/RC=	.0700	36 DEG RAKE	198 DEG RAKE		
S2	.9510	S14	.8900	A36	.9386	A198	.9640
R1P1	1.0010	R3P1	.8877	M36	.9313	B198	.9622
R1P2	1.0011	R3P2	.8875	C36	.9218	C198	.9591
R1P3	1.0011	R3P3	.8875	D36	.9156	D198	.9348
R1P4	1.0011	R3P4	.8878	E36	.9097	E198	.9212
R1P5	1.0011	R3P5	.8871	90 DEG RAKE	252 DEG RAKE		
R1P6	1.0011	R3P6	.8876	A90	.9659	A252	.9510
R1P7	1.0010	R3P7	1.0012	B90	.9636	B252	.9401
R1P8	1.0011	R3P8	.9122	C90	.9543	C252	.9328
R1P9	.9993	R3P9	.9621	D90	.9459	D252	.9297
		R3P10	.9956	E90	.9403	E252	.9230
		R3P11	1.0010	144 DEG RAKE	324 DEG RAKE		
		R3P12	.9951	A144	.9669	A324	.9480
		R3P13	1.0019	B144	.9594	B324	.9485
		R3P14	1.0013	D144	.9385	C324	.9413
		R3P15	1.0018	C144	.9300	D324	.9355
		R3P16	1.0017	E144	.9214	E324	.9294

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCM/RC=	1.4678	STAT XCM/RC=	1.5380	SPIKE		COWL	
S9	.9381	S20	.9215	XCM/RC	P/PU	TAP	XCM/RC
R2P1	.9764	K4P1	.9547	TAP		S14	.8900
R2P2	.9896	R4P2	.9570	S1	.0762	S14	.1860
R2P3	.9822	R4P3	.9590	S2	.0728	S15	.8861
R2P4	.9689	K4P4	.9600	S11	.0728	S16	.4150
R2P5	.9614	K4P5	.9604	S12	.0728	S17	.8470
		K4P6	.9617	S13	.0728	S18	1.1740
		K4P7	.9632	S3	.1408	S19	1.4590
		K4P8	.9639	S4	.4068	S20	1.5400
		K4P9	.9650	S5	.6428	S21	1.8270
		K4P10	.9671	S6	.8898	S22	2.7840
		K4P11	.9687	S7	1.0178	S23	3.2980
		K4P12	.9712	S8	1.1498	S26	5.2890
				S9	1.5128		.8675
				S10	1.8488		
				S27	5.3000		
				S28	.6428		

SPIKE R6		COWL K5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.8659	S23	.8659
R6P1	.9360	K5P1	.9125
R6P2	.9502	K5P2	.9147
R6P3	.9558	K5P3	.9209
R6P4	.9600	K5P4	.9232
R6P5	.9628	K5P5	.9302
R6P6	.9557	K5P6	.9336
R6P9	.9505	K5P7	.9494
R6P10	.9430	K5P8	.9642
R6P11	.9262	K5P9	.9673
		K5P10	.9635
		K5P11	.9625

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	149	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	288.3 DEG K	MAX-MIN DIST	.0776
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9169 ATMOS	K=CIRCUMF.	.5278
START	2: 2:10.002	INTERVAL	1.000	ENG. FACE RECOV	.9290	ENGINE M/M*	.5978	K=RADIAL	.1624
STOP	2: 2:39.999	ENG CON RPM	5451.	ENG. FACE MACH NO	.3745	COWL M/M*	.4242		
				COWL LIP RECOV	.9484	ADDITIVE M/M*	.1736	K=DELTA	.1274
				MACH AT COWL LIP	.2617			K=A	.2899

SPIKE R1		COWL M3		STAT XCW/RC= 5.4830			
STAT XCW/RC=	.0728	STAT XCW/RC=	.0700	36 DEG HAKE	198 DEG HAKE		
S2	.9417	S14	.8669	A36	.9256	A198	.9564
R1P1	1.0004	R3P1	.8651	B36	.9178	B198	.9572
R1P2	1.0011	R3P2	.8646	C36	.9060	C198	.9513
R1P3	1.0014	R3P3	.8647	D36	.8986	D198	.9241
R1P4	1.0014	R3P4	.8645	E36	.8904	E198	.9081
R1P5	1.0015	R3P5	.8648	90 DEG HAKE	252 DEG HAKE		
R1P6	1.0014	R3P6	.8643	A90	.9585	A252	.9426
R1P7	1.0016	R3P7	1.0009	B90	.9563	B252	.9253
R1P8	1.0008	R3P8	.8992	C90	.9448	C252	.9165
R1P9	.9992	R3P9	.9593	D90	.9350	D252	.9132
		R3P10	.9964	E90	.9280	E252	.9039
		R3P11	1.0009	144 DEG HAKE	324 DEG HAKE		
		R3P12	.9945	A144	.9625	A324	.9389
		R3P13	1.0021	B144	.9522	B324	.9394
		R3P14	1.0015	D144	.9257	D324	.9271
		R3P15	1.0021	C144	.9182	D324	.9209
		R3P16	1.0021	E144	.9108	E324	.9144

SPIKE R2		COWL M4		STATIC PRESSURES					
STAT XCW/RC=	1.4676	STAT XCW/RC=	1.5380	SPIKE		COWL			
S9	.9256	S20	.9041	XCW/RC	P/PO	TAP	XCW/RC	P/PO	
R2P1	.9724	R4P1	.9417	S1	.0762	.9850	S14	.0340	.8669
R2P2	.9861	R4P2	.9474	S2	.0728	.9417	S15	.1860	.8637
R2P3	.9782	R4P3	.9493	S11	.0728	.9400	S16	.4150	.8782
R2P4	.9629	R4P4	.9505	S12	.0728	.9388	S17	.8470	.9159
R2P5	.9517	R4P5	.9516	S13	.0728	.9404	S18	1.1740	.9258
		R4P6	.9545	S3	.1408	.9098	S19	1.4590	.9275
		R4P7	.9568	S4	.4068	.8696	S20	1.5400	.9041
		R4P8	.9587	S5	.0428	.8990	S21	1.8270	.9234
		R4P9	.9594	S6	.8898	.9172	S22	2.7840	.8168
		R4P10	.9608	S7	1.0178	.9218	S23	3.2980	.8365
		R4P11	.9631	S8	1.1498	.9243	S26	5.2890	.8381
		R4P12	.9646	S9	1.5128	.9256			
				S10	1.8488	.9666			
				S27	5.3000	.8462			
				S28	.0428	1.0004			

SPIKE R6		COWL M5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.8365	S23	.8365
R6P1	.9207	R5P1	.8931
R6P2	.9384	R5P2	.8987
R6P3	.9446	R5P3	.9047
R6P4	.9512	R5P4	.9047
R6P5	.9548	R5P5	.9119
R6P8	.9488	R5P6	.9200
R6P9	.9408	R5P7	.9375
R6P10	.9288	R5P8	.9560
R6P11	.9051	R5P9	.9605
		R5P10	.9571
		R5P11	.9542

YF-12 INLET NOISE SUPPRESSION STUDY
 RUN 150 FLIGHT DATE 09/20/79 SPIKE POS. DX/RC .8582 AMBIENT TEMP 4732.2 DEG K
 FLIGHT NO. 0 BYPASS POS. OPEN AMBIENT PRESS .9176 ATMOS
 START 2: 41 .000 INTERVAL 1.000 ENG. FACE RECOV .9211 ENGINE M/M* .4286
 STOP 2: 41:30.000 ENG LUN RPM 5626. ENG. FACE MACH NO .3471 COWL M/M* .4405
 COWL LIP RECOV .9428 ADDITIVE M/M* -.0119
 MACH AT COWL LIP .2745
 MAX=MIN DIST .0838
 K=CIRCUMF. 1.0650
 K=RADIAL .3592
 K=DELTA .2706
 K=A .6298

SPIKE R1 STAT XCM/RC= .0728 COWL R3 STAT XCM/RC= .0700 STAT XCM/RC= 5.4830
 S2 .9350 S14 .8545 A36 .9217 A198 .9493
 R1P1 .999A R3P1 .8517 B36 .9102 R198 .9520
 R1P2 1.0002 R3P2 .8505 C36 .8970 C198 .9461
 R1P3 1.0003 R3P3 .8511 D36 .8877 D198 .9146
 R1P4 1.0005 R3P4 .8515 E36 .8804 E198 .8974
 R1P5 1.0006 R3P5 .8514 90 DEG MAKE 252 DEG MAKE
 R1P6 1.0006 R3P6 .8514 A90 .9545 A252 .9345
 R1P7 1.0005 R3P7 1.0003 B90 .9531 B252 .9161
 R1P8 1.0003 R3P8 .8914 C90 .9395 C252 .9056
 R1P9 .9982 R3P9 .9604 D90 .9277 D252 .9010
 R3P10 .9970 E90 .9231 E252 .8919
 R3P11 1.0001 144 DEG MAKE 324 DEG MAKE
 R3P12 .9926 A144 .9576 A324 .9312
 R3P13 1.0012 B144 .9445 B324 .9329
 R3P14 1.0002 D144 .9177 C324 .9212
 R3P15 1.0013 C144 .9086 D324 .9129
 R3P16 1.0012 E144 .8994 E324 .9044

SPIKE R2 STAT XCM/RC= 1.4678 COWL R4 STAT XCM/RC= 1.5380 STATIC PRESSURES
 S9 .9180 S20 .8937 TAP SPIKE COWL P/PO
 R2P1 .9681 R4P1 .9388 S1 XCM/RC P/PU TAP XCM/RC P/PO
 R2P2 .9851 R4P2 .9433 S2 .0726 .9825 S14 .0340 .8545
 R2P3 .9754 R4P3 .9454 S11 .0726 .9350 S15 .1860 .8501
 R2P4 .9579 R4P4 .9469 S12 .0726 .9344 S16 .4150 .8662
 R2P5 .9475 R4P5 .9479 S13 .0726 .9322 S17 .8470 .9071
 R4P6 .9495 S14 .0726 .9347 S18 1.1740 .9186
 R4P7 .9513 S15 .1408 .9012 S19 1.4590 .9202
 R4P8 .9532 S16 .4068 .8577 S20 1.5400 .8937
 R4P9 .9541 S17 .6426 .8898 S21 1.8270 .9157
 R4P10 .9566 S18 .8848 .9094 S22 2.7840 .7969
 R4P11 .9586 S19 1.0176 .9147 S23 3.2980 .8200
 R4P12 .9611 S20 1.1498 .9165 S26 5.2890 .8212
 S9 1.5126 .9180
 S10 1.8488 .9620
 S27 5.3000 .8289
 S28 .6426 .9944

SPIKE R6 STAT XCM/RC= 3.5040 COWL R5 STAT XCM/RC= 3.3270
 S23 .8200 S23 .8200
 R6P1 .9142 R5P1 .8806
 R6P2 .9340 R5P2 .8854
 R6P3 .9412 R5P3 .8911
 R6P4 .9457 R5P4 .8943
 R6P5 .9486 R5P5 .9000
 R6P8 .9440 R5P6 .9060
 R6P9 .9359 R5P7 .9302
 R6P10 .9220 R5P8 .9515
 R6P11 .9047 R5P9 .9542
 R5P10 .9531
 R5P11 .9444

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	151	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	287.8 DEG K	MAX-MIN DIST	.0889
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9170 ATMOS	K=CIRCUMF.	.4624
START	21 5140.001	INTERVAL	1.000	ENG. FACE RECOV	.9168	ENGINE M/M*	.6426	K=RADIAL	.1605
STOP	21 6110.000	ENG COX RPM	5857.	ENG. FACE MACH NO	.4106	CUML M/M*	.4503	K=DELTA	.1303
				CUML LIP RECOV	.9400	ADDITIVE M/M*	.1923	K=A	.2908
				MACH AT CUML LIP	.2821				

SPIKE R1		CUML R3		STAT XCW/RC= 5.4830		
STAT XCW/RC=	.0728	STAT XCW/RC=	.0700	36 DEG RAKE	198 DEG RAKE	
S2	.9326	S14	.8464	A36	.9146 A198	.9488
R1P1	1.0001	R3P1	.8437	B36	.9039 B198	.9507
R1P2	1.0010	R3P2	.8439	C36	.8897 C198	.9434
R1P3	1.0009	R3P3	.8435	D36	.8796 D198	.9106
R1P4	1.0011	R3P4	.8434	E36	.8739 E198	.8912
R1P5	1.0009	R3P5	.8432	90 DEG RAKE	252 DEG RAKE	
R1P6	1.0009	R3P6	.8434	A90	.9524 A252	.9320
R1P7	1.0011	R3P7	1.0008	H90	.9482 B252	.9127
R1P8	1.0009	R3P8	.8848	C90	.9338 C252	.9002
R1P9	.9985	R3P9	.9562	D90	.9227 D252	.8979
		R3P10	.9962	E90	.9144 E252	.8860
		R3P11	1.0002	144 DEG RAKE	324 DEG RAKE	
		R3P12	.9934	A144	.9555 A324	.9286
		R3P13	1.0018	B144	.9440 B324	.9265
		R3P14	1.0011	D144	.9141 C324	.9173
		R3P15	1.0017	C144	.9070 D324	.9071
		R3P16	1.0015	E144	.9000 E324	.8966

SPIKE R2		CUML R4		STATIC PRESSURES				
STAT XCW/RC=	1.4678	STAT XCW/RC=	1.5380	SPIKE			CUML	
S9	.9138	S20	.8888	XCW/RC	P/PO	TAP	XCW/RC	P/PO
R2P1	.9668	R4P1	.9333	S1	.90762	.9827 S14	.0340	.8464
R2P2	.9856	R4P2	.9380	S2	.9728	.9326 S15	.1860	.8421
R2P3	.9742	R4P3	.9399	S11	.9728	.9315 S16	.4150	.8586
R2P4	.9549	R4P4	.9422	S12	.9728	.9293 S17	.8470	.9025
R2P5	.9440	R4P5	.9457	S13	.9728	.9315 S18	1.1740	.9140
		R4P6	.9467	S3	.1408	.8960 S19	1.4590	.9163
		R4P7	.9474	S4	.4068	.8506 S20	1.5400	.8888
		R4P8	.9501	S5	.6428	.8832 S21	1.8270	.9112
		R4P9	.9530	S6	.8898	.9050 S22	2.7840	.7857
		R4P10	.9554	S7	1.0178	.9097 S23	3.2980	.8078
		R4P11	.9572	S8	1.1498	.9122 S26	5.2890	.8112
		R4P12	.9603	S9	1.5128	.9138		
				S10	1.8488	.9602		
				S27	5.3000	.8187		
				S28	.6428	1.0003		

SPIKE R6		CUML R5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.8078	S23	.8078
R6P1	.9089	R5P1	.8726
R6P2	.9277	R5P2	.8824
R6P3	.9365	R5P3	.8837
R6P4	.9414	R5P4	.8885
R6P5	.9472	R5P5	.8926
R6P8	.9397	R5P6	.9023
R6P9	.9312	R5P7	.9260
R6P10	.9219	R5P8	.9494
R6P11	.8963	R5P9	.9541
		R5P10	.9531
		R5P11	.9510

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	152	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	287.2 DEG K	MAX-MIN DIST	.1019
START	21 7:30.002	FLIGHT NU.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9179 ATMOS	K-CIRCUMF.	.4064
STOP	21 7:59.998	INTERVAL	1.000	ENG. FACE MECOV	.9076	ENGINE M/M*	.6780	K-RADIAL	.1505
		ENG CUK RPM	6074.	ENG. FACE MACH NO	.4568	COWL M/M*	.4664	K-DELTA	.1184
				COWL LIP MECOV	.9330	ADDITIVE M/M*	.2116	K-A	.2749
				MACH AT COWL LIP	.2958				

SPIKE R1		COWL K3		STAT XCM/RC= 5.4830	
STAT XCM/RC=	.0728	STAT XCM/RC=	.0700	36 DEG WAKE	198 DEG WAKE
S2	.9247	S14	.8314	A36	.9074
R1P1	.9989	R3P1	.8284	B36	.8439
R1P2	.9998	R3P2	.8283	C36	.8785
R1P3	.9997	R3P3	.8283	D36	.8667
R1P4	1.0000	R3P4	.8286	E36	.8582
R1P5	.9996	R3P5	.8287	90 DEG WAKE	252 DEG WAKE
R1P6	1.0000	R3P6	.8243	A90	.9457
R1P7	1.0000	R3P7	.9944	B90	.9417
R1P8	.9994	R3P8	.8730	C90	.9254
R1P9	.9969	R3P9	.9516	D90	.9114
		R3P10	.9953	E90	.9044
		R3P11	.9944	144 DEG WAKE	324 DEG WAKE
		R3P12	.9913	A144	.9506
		R3P13	1.0004	B144	.9357
		R3P14	.9998	D144	.9086
		R3P15	1.0002	C144	.9469
		R3P16	1.0003	E144	.9873

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCM/RC=	1.4678	STAT XCM/RC=	1.5380	SPIKE		COWL	
S9	.9032	S20	.8770	XCM/RC	P/PU	IAP	XCM/RC
R2P1	.9630	R4P1	.9257	S1	.0762	.9797	S14
R2P2	.9848	R4P2	.9315	S2	.0728	.9247	S15
R2P3	.9726	R4P3	.9358	S11	.0728	.9244	S16
R2P4	.9523	R4P4	.9373	S12	.0728	.9225	S17
R2P5	.9374	R4P5	.9376	S13	.0728	.9250	S18
		R4P6	.9412	S3	.1408	.8854	S19
		R4P7	.9428	S4	.4068	.8355	S20
		R4P8	.9442	S5	.6428	.8722	S21
		R4P9	.9463	S6	.8848	.8951	S22
		R4P10	.9482	S7	1.0178	.9005	S23
		R4P11	.9516	S8	1.1448	.9025	S26
		R4P12	.9547	S9	1.5128	.9032	
				S10	1.8488	.9044	
				S27	5.3000	.7991	
				S28	.6428	.9987	

SPIKE R6		COWL R5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.7860	S23	.7860
R6P1	.9002	R5P1	.8541
R6P2	.9207	R5P2	.8673
R6P3	.9294	R5P3	.8731
R6P4	.9383	R5P4	.8741
R6P5	.9431	R5P5	.8840
R6P8	.9358	R5P6	.8947
R6P9	.9280	R5P7	.9144
R6P10	.9159	R5P8	.9422
R6P11	.8905	R5P9	.9484
		R5P10	.9474
		R5P11	.9444

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	153	FLIGHT DATE	09/20/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	287.2 DEG K	MAX-MIN DIST	.1045
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9177 ATMOS	K-CIRCUMF.	.3741
START	21 9:20.001	INTERVAL	1.000	ENG. FACE RECOV	.9012	ENGINE M/M*	.7104	K-RADIAL	.1515
STOP	21 9:50.000	ENG COM RPM	6265.	ENG. FACE MACH NO	.4599	COWL M/M*	.4777	K-DELTA	.1194
				COWL LIP RECOV	.9285	ADDITIVE M/M*	.2327	K-A	.2709
				MACH. AT COWL LIP	.3055				

SPIKE R1		COWL K3		STAT XCW/MC= 5.4830	
STAT XCW/MC=	.0728	STAT XCW/MC=	.0700	36 DEG RAKE	198 DEG RAKE
S2	.9199	S14	.8200	A36	.8447 A198
R1P1	.9989	R3P1	.8181	B36	.8856 B198
R1P2	.9998	R3P2	.8178	C36	.8704 C198
R1P3	1.0003	R3P3	.8174	D36	.8583 D198
R1P4	1.0002	R3P4	.8171	E36	.8540 E198
R1P5	1.0002	K3P5	.8172	90 DEG RAKE 252 DEG RAKE	
R1P6	1.0001	K3P6	.8174	A90	.9420 A252
R1P7	1.0001	K3P7	.9990	H90	.4370 H252
R1P8	.9996	R3P8	.8605	C90	.9204 C252
R1P9	.9971	K3P9	.9471	D90	.9064 D252
		R3P10	.9955	E90	.4488 E252
		R3P11	.9998	144 DEG RAKE 324 DEG RAKE	
		R3P12	.9911	A144	.9482 A324
		K3P13	1.0008	B144	.9333 B324
		R3P14	1.0001	D144	.8493 D324
		R3P15	1.0005	C144	.8885 C324
		R3P16	1.0004	E144	.8770 E324

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/MC=	1.4678	STAT XCW/MC=	1.5380	SPIKE	P/PO	TAP	COWL
S9	.8974	S20	.8644	XCW/MC	P/PO	TAP	XCW/MC
R2P1	.9602	K4P1	.9199	S1	.80702	S14	.0340
R2P2	.9819	K4P2	.9257	S2	.80720	S15	.1860
R2P3	.9695	K4P3	.9287	S11	.80728	S16	.4150
R2P4	.9459	K4P4	.9307	S12	.80728	S17	.8470
R2P5	.9313	K4P5	.9335	S13	.80728	S18	1.1740
		K4P6	.9353	S3	.1400	S19	1.4590
		K4P7	.9361	S4	.4000	S20	1.5400
		K4P8	.9385	S5	.8428	S21	1.8270
		K4P9	.9415	S6	.8898	S22	2.7840
		K4P10	.9445	S7	1.0170	S23	3.2980
		K4P11	.9455	S8	1.1448	S26	5.2890
		K4P12	.9480	S9	1.5128		.7729
				S10	1.8488		
				S27	5.3000		
				S28	.6428		

SPIKE R6		COWL K5	
STAT XCW/MC=	3.5040	STAT XCW/MC=	3.3270
S23	.7690	S23	.7690
K6P1	.8901	K5P1	.8486
K6P2	.9122	K5P2	.8547
K6P3	.9247	K5P3	.8573
K6P4	.9316	K5P4	.8651
K6P5	.9382	K5P5	.8728
K6P8	.9289	K5P6	.8885
K6P9	.9200	K5P7	.9144
K6P10	.9085	K5P8	.9389
K6P11	.8779	K5P9	.9473
		R5P10	.9432
		K5P11	.9380

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	155	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	287.2 DEG K	MAX-MIN DIST	.1195
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9168 ATMUS	K-CIRCUMF.	.3085
START	2:12:20.000	INTERVAL	1.000	ENG. FARE RECOV	.8899	ENGINE M/M*	.7546	K-RADIAL	.1478
STOP	2:12:50.000	ENG LOM RPM	6675.	ENG. FARE MACH NO	.4964	COWL M/M*	.4993		
				COWL LIP RECOV	.9222	ADDITIVE M/M*	.2553	K-DELTA	.0952
				MACH AT COWL LIP	.3237			K-A	.2430

SPIKE R1		COWL K3		STAT XCN/RC# 5.4830			
STAT	XCN/RC# .0728	STAT	XCN/RC# .0700	36	DEG MAKE	198	DEG MAKE
S2	.9126	S14	.8026	A36	.8901	A198	.9207
R1P1	.9996	R3P1	.8005	B36	.8730	H198	.9292
R1P2	1.0009	R3P2	.8001	C36	.8568	C198	.9319
R1P3	1.0010	R3P3	.7993	D36	.8427	D198	.8856
R1P4	1.0010	R3P4	.7994	E36	.8342	E198	.8529
R1P5	1.0008	R3P5	.7991	90	DEG MAKE	252	DEG MAKE
R1P6	1.0010	R3P6	.7991	A90	.9406	A252	.9154
R1P7	1.0008	R3P7	1.0009	B90	.9349	H252	.8909
R1P8	1.0009	K3P8	.8533	C90	.9125	C252	.8734
R1P9	.9979	K3P9	.9547	D90	.8966	D252	.8632
		R3P10	.9987	E90	.8865	E252	.8890
		K3P11	1.0011	144	DEG MAKE	324	DEG MAKE
		K3P12	.9913	A144	.9382	A324	.9100
		R3P13	1.0014	B144	.9206	H324	.9116
		K3P14	1.0014	D144	.8836	C324	.8936
		K3P15	1.0014	C144	.8718	D324	.8729
		R3P16	1.0014	E144	.8599	E324	.8567

SPIKE R2		COWL K4		STATIC PRESSURES					
STAT	XCN/RC# 1.4678	STAT	XCN/RC# 1.5380		SPIKE		COWL		
S9	.8870	S20	.8539	TAP	XCN/RC	P/PU	TAP	XCN/RC	P/PU
R2P1	.9567	K4P1	.9156	S1	.0762	.9775	S14	.0340	.8026
R2P2	.9815	K4P2	.9230	S2	.0728	.9126	S15	.1860	.7972
R2P3	.9685	K4P3	.9236	S11	.0728	.9113	S16	.4150	.8177
R2P4	.9444	K4P4	.9249	S12	.0728	.9019	S17	.8470	.8728
R2P5	.9286	K4P5	.9291	S13	.0726	.9130	S18	1.1740	.8879
		K4P6	.9293	S3	.1408	.8660	S19	1.4590	.8918
		K4P7	.9344	S4	.4068	.8060	S20	1.5400	.8539
		K4P8	.9371	S5	.6428	.8494	S21	1.8270	.8844
		K4P9	.9380	S6	.8896	.8769	S22	2.7840	.7137
		K4P10	.9402	S7	1.0178	.8833	S23	3.2980	.7398
		K4P11	.9433	S8	1.1498	.8864	S26	5.2890	.7449
		K4P12	.9471	S9	1.5128	.8870			
				S10	1.8488	.9457			
				S27	5.3000	.7558			
				S28	.6428	1.0000			

SPIKE K6		COWL K5	
STAT	XCN/RC# 3.5040	STAT	XCN/RC# 3.3270
S23	.7398	S23	.7398
R6P1	.8740	K5P1	.8277
R6P2	.9012	R5P2	.8367
R6P3	.9157	K5P3	.8455
R6P4	.9265	R5P4	.8478
R6P5	.9304	K5P5	.8602
R6P8	.9243	R5P6	.8754
R6P9	.9184	R5P7	.9027
R6P10	.8992	K5P8	.9369
R6P11	.8630	K5P9	.9406
		F5P10	.9410
		F5P11	.9338

YF-12 INLET NOISE SUPPRESSION STUDY
 RUN 157 FLIGHT DATE 09/20/79 SPIKE POS. UX/NC .8582 AMBIENT TEMP 288.3 DEG K
 FLIGHT NO. 0 BYPASS POS. CLOSED AMBIENT PRESS .9175 ATMOS
 START 2:18:30.002 INTERVAL 1.000 ENG. FACE RECOV .9563 ENGINE M/M* .5113
 STOP 2:18:59.997 ENG CLK RPM 4254. ENG. FACE MACH NO .2408 COWL M/M* .4250
 COWL LIP RECOV .9470 ADDITIVE M/M* .0864
 MACH AT COWL LIP .2627
 K=DELTA -.0105
 K-A .0909

STAT SPIKE R1 COWL R3 STAT XCW/RC= 5.4830
 XCW/RC# .0728 XCW/RC# .0700 36 DEG MAKE 198 DEG MAKE
 S2 .9413 S14 .8640 A36 .9599 A198 .9637
 RIP1 1.0013 R3P1 .8614 B36 .9612 B198 .9631
 RIP2 1.0025 R3P2 .8612 C36 .9562 C198 .9697
 RIP3 1.0023 R3P3 .8609 D36 .9538 D198 .9577
 RIP4 1.0025 R3P4 .8610 E36 .9504 E198 .9470
 RIP5 1.0023 R3P5 .8612 90 DEG MAKE 252 DEG MAKE
 RIP6 1.0026 R3P6 .8610 A90 .9610 A252 .9607
 RIP7 1.0023 R3P7 1.0022 B90 .9622 B252 .9607
 RIP8 1.0018 R3P8 .8868 C90 .9568 C252 .9550
 RIP9 .9994 R3P9 .9454 D90 .9534 D252 .9549
 R3P10 .9927 E90 .9508 E252 .9488
 R3P11 1.0013 144 DEG MAKE 324 DEG MAKE
 R3P12 .9951 A144 .9619 A324 .9623
 R3P13 1.0028 B144 .9600 B324 .9617
 R3P14 1.0026 D144 .9501 D324 .9575
 R3P15 1.0028 C144 .9450 C324 .9543
 R3P16 1.0030 E144 .9398 E324 .9491

STAT SPIKE R2 COWL R4 STATIC PRESSURES
 XCW/RC# 1.4678 XCW/RC# 1.5380 SPIKE COWL
 S9 .9203 S20 .8920 XCW/RC P/PO TAP XCW/RC P/PO
 R2P1 .9719 R4P1 .9378 TAP S1 .0762 .9867 S14 .0340 .8640
 R2P2 .9886 R4P2 .9450 S2 .0728 .9413 S15 .1860 .8606
 R2P3 .9774 R4P3 .9457 S11 .0728 .9382 S16 .4150 .8739
 R2P4 .9608 R4P4 .9480 S12 .0728 .9355 S17 .8470 .9130
 R2P5 .9494 R4P5 .9494 S13 .0728 .9402 S18 1.1740 .9240
 R4P6 .9499 S3 .1408 .9075 S19 1.4590 .9241
 R4P7 .9518 S4 .4068 .8655 S20 1.5400 .8920
 R4P8 .9543 S5 .6428 .8955 S21 1.8270 .9150
 R4P9 .9586 S6 .8898 .9137 S22 2.7840 .9129
 R4P10 .9579 S7 1.0176 .9189 S23 3.2980 .9181
 R4P11 .9581 S8 1.1498 .9208 S26 5.2890 .9162
 R4P12 .9601 S9 1.5128 .9203
 S10 1.8488 .9635
 S27 5.3000 .9201
 S28 .6428 1.0011

STAT SPIKE R6 COWL R5
 XCW/RC# 3.5040 XCW/RC# 3.3270
 S23 .9181 S23 .9181
 R6P1 .9517 R5P1 .9348
 R6P2 .9600 R5P2 .9356
 R6P3 .9606 R5P3 .9360
 R6P4 .9633 R5P4 .9377
 R6P5 .9658 R5P5 .9405
 R6P8 .9684 R5P6 .9423
 R6P9 .9691 R5P7 .9435
 R6P10 .9692 R5P8 .9500
 R6P11 .9669 R5P9 .9564
 R5P10 .9601
 R5P11 .9668

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	158	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	288.3 DEG K	MAX-MIN DIST	.0506
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9174 ATMUS	K-CIRCUMF.	.4502
START	2:20:40.002	INTERVAL	1.000	ENG. FACE REC'D	.9288	ENGINE M/M*	.5576	K-RADIAL	.1227
STOP	2:21:10.000	ENG COH RPM	5030.	ENG. FACE MACH NO	.3175	COWL M/M*	.5228		
				COWL LIP REC'D	.9131	ADDITIVE M/M*	.0348	K-DELTA	-.0147
				MACH AT COWL LIP	.3452			K-A	.1375

SPIKE R1		COWL K3		STAT XCW/RC = 5.4830		
STAT XCW/RC =	.0728	STAT XCW/RC =	.0700	36 DEG MAKE	198 DEG MAKE	
S2	.9038	S14	.7779	A36	.9375 A198	.9456
R1P1	1.0008	R3P1	.7745	H36	.9357 B198	.9418
R1P2	1.0012	R3P2	.7740	C36	.9301 C198	.9442
R1P3	1.0014	R3P3	.7737	D36	.9245 D198	.9253
R1P4	1.0015	R3P4	.7739	E36	.9184 E198	.9040
R1P5	1.0016	R3P5	.7741	90 DEG MAKE 252 DEG MAKE		
R1P6	1.0015	R3P6	.7734	A90	.9348 A252	.9379
R1P7	1.0015	R3P7	1.0012	H90	.9415 H252	.9361
R1P8	1.0011	R3P8	.8414	C90	.9323 C252	.9323
R1P9	.9981	R3P9	.9555	U90	.9258 U252	.9250
		R3P10	.9992	E90	.9191 E252	.9140
		R3P11	1.0012	144 DEG MAKE 324 DEG MAKE		
		R3P12	.9915	A144	.9382 A324	.9382
		R3P13	1.0024	H144	.9335 B324	.9357
		R3P14	1.0013	D144	.9188 C324	.9279
		R3P15	1.0019	C144	.9087 D324	.9258
		R3P16	1.0014	E144	.8486 E324	.9213

SPIKE R2		COWL K4		STATIC PRESSURES				
STAT XCW/RC =	1.4678	STAT XCW/RC =	1.5380	SPIKE		COWL		
S9	.8683	S20	.8237	XCW/RC	P/PU	IAP	XCW/RC	P/PU
R2P1	.9525	H4P1	.8941	S1	.9775	S14	.0340	.7779
R2P2	.9824	H4P2	.9060	S2	.9728	S15	.1860	.7732
R2P3	.9620	H4P3	.9084	S11	.9728	S16	.4150	.7944
R2P4	.9346	H4P4	.9151	S12	.9728	S17	.8470	.8569
R2P5	.9154	H4P5	.9174	S13	.9728	S18	1.1740	.8745
		H4P6	.9144	S3	.1408	S19	1.4590	.8756
		H4P7	.9214	S4	.4068	S20	1.5400	.8237
		H4P8	.9249	S5	.6428	S21	1.8270	.8602
		H4P9	.9278	S6	.8848	S22	2.7840	.8578
		H4P10	.9318	S7	1.0178	S23	3.2980	.8649
		H4P11	.9355	S8	1.1448	S26	5.2890	.8628
		H4P12	.9374	S9	1.3128			
				S10	1.8488			
				S27	5.3000			
				S28	.8428	1.0001		

SPIKE R6		COWL K5	
STAT XCW/RC =	3.5040	STAT XCW/RC =	3.3270
S23	.8649	S23	.8649
H6P1	.9200	H5P1	.8903
H6P2	.9320	H5P2	.8940
H6P3	.9357	H5P3	.8957
H6P4	.9385	H5P4	.8984
H6P5	.9413	H5P5	.9043
H6P8	.9491	H5P6	.9054
H6P9	.9500	H5P7	.9085
H6P10	.9506	H5P8	.9176
H6P11	.9480	H5P9	.9283
		H5P10	.9358
		H5P11	.9452

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	159	FLIGHT DATE	09/20/79	SPIKE POS. DX/MC	.8542	AMBIENT TEMP	288.3 DEG K	MAX-MIN DIST	.0596
START	2:22:15.000	FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9180 ATMOS	K-CIRCUMF.	.3583
STOP	2:22:45.000	INTERVAL	1.000	ENG. FALC RECUV	.9052	ENGINE M/M*	.6029	K-RADIAL	.1397
		ENG COK RPM	5633.	ENG. FALC MACH NO	.3742	COWL M/M*	.5771	K-DELTA	-.0132
				COWL LIP RECUV	.8842	ADDITIVE M/M*	.0258	K-A	.1530
				MACH AT COWL LIP	.4037				

SPIKE R1		COWL R3		STAT XCW/MC= 5.4830			
STAT XCW/MC=	.0728	STAT XCW/MC=	.0700	36 DEG HAKE	198 DEG HAKE		
S2	.8727	S14	.7079	A36	.9180	A198	.9225
R1P1	.9989	K3P1	.7027	H36	.9184	B198	.9165
R1P2	1.0001	K3P2	.7021	C36	.9099	C198	.9152
H1P3	1.0006	K3P3	.7023	D36	.9031	D198	.8936
R1P4	1.0004	K3P4	.7022	E36	.8944	E198	.8765
R1P5	1.0002	K3P5	.7018	90 DEG HAKE	252 DEG HAKE		
R1P6	1.0005	K3P6	.7021	A90	.9176	A252	.9166
R1P7	1.0005	K3P7	1.0001	H90	.9180	B252	.9143
R1P8	1.0003	K3P8	.8217	C90	.9075	C252	.9071
H1P9	.9975	K3P9	.9726	D90	.8957	D252	.8987
		K3P10	1.0000	E90	.8878	E252	.8856
		K3P11	.9998	144 DEG HAKE	324 DEG HAKE		
		K3P12	.9870	A144	.9253	A324	.9190
		K3P13	1.0010	B144	.9231	B324	.9178
		K3P14	.9997	D144	.8991	C324	.9064
		K3P15	1.0004	E144	.8852	D324	.9000
		K3P16	1.0008		.8714	E324	.8904

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/MC=	1.4678	STAT XCW/MC=	1.5380	TAP	SPIKE	COWL	
S9	.8239	S23	.7001	XCW/MC	P/PU	TAP	XCW/MC
R2P1	.9331	K4P1	.8653	S1	.9691	S14	.0340
R2P2	.9784	K4P2	.8760	S2	.9728	S15	.1860
R2P3	.9574	K4P3	.8801	S11	.9728	S16	.4150
R2P4	.9174	K4P4	.8832	S12	.9728	S17	.8470
R2P5	.8877	K4P5	.8877	S13	.9728	S18	1.1740
		K4P6	.8909	S3	.1408	S19	1.4590
		K4P7	.8954	S4	.9068	S20	1.5400
		K4P8	.8947	S5	.6428	S21	1.8270
		K4P9	.9041	S6	.8898	S22	2.7840
		K4P10	.9089	S7	1.0178	S23	3.2980
		K4P11	.9165	S8	1.1498	S26	5.2890
		K4P12	.9227	S9	1.5128		.8169
				S10	1.8468		
				S27	5.3000		
				S28	.6428		

SPIKE R6		COWL R5	
STAT XCW/MC=	3.5040	STAT XCW/MC=	3.3270
S23	.8173	S23	.8173
K6P1	.8965	K5P1	.8532
K6P2	.9091	K5P2	.8579
K6P3	.9171	K5P3	.8604
K6P4	.9216	K5P4	.8633
K6P5	.9247	K5P5	.8671
K6P8	.9356	K5P6	.8696
K6P9	.9380	K5P7	.8760
K6P10	.9354	K5P8	.8883
K6P11	.9348	K5P9	.9028
		K5P10	.9147
		K5P11	.9265

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	160	FLIGHT DATE	09/20/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	289.4 DEG K	MAX=MIN DIST	.0760
START	2:24:00.000	FLIGHT NO.	0	HYPASS POS.	CLOSED	AMBIENT PRESS	.9183 ATMOS	K=CIRCUMF.	.2908
STOP	2:24:29.999	INTERVAL	1.000	ENG. FALLE RECOV	.8898	ENGINE M/M*	.6574	K=RADIAL	.1414
		ENG COM RPM	6062.	ENG. FALLE MACH NO	.4169	COWL M/M*	.6085	K=DELTA	-.0044
				COWL LIP RECOV	.8639	ADUITIVE M/M*	.0489	K=A	.1458
				MACH AT COWL LIP	.4445				

SPIKE R1		COWL R3		STAT XCM/KC= 5.4850	
STAT XCM/RC=	.0728	STAT XCM/KC=	.0700	36 DEG	HAKE
S2	.8520	S14	.6506	A36	.4054
R1P1	.9981	R3P1	.6506	H36	.4052
R1P2	.9994	R3P2	.6503	C36	.8432
R1P3	.9996	R3P3	.6499	D36	.8837
R1P4	.9996	R3P4	.6497	E36	.8735
R1P5	.9996	R3P5	.6496	90 DEG	HAKE
R1P6	.9997	R3P6	.6499	A90	.4040
R1P7	.9995	R3P7	.9993	H90	.4036
R1P8	.9994	R3P8	.8481	C90	.8406
R1P9	.9965	R3P9	.9413	D90	.8760
		R3P10	1.0002	E90	.8683
		R3P11	.9999	144 DEG	HAKE
		R3P12	.9870	A144	.4164
		R3P13	1.0005	H144	.4133
		R3P14	.9994	D144	.8822
		R3P15	1.0003	C144	.8657
		R3P16	1.0002	E144	.8443
				A198	.4141
				H198	.9043
				C198	.9049
				D198	.8782
				E198	.8592
				252 DEG	HAKE
				A252	.9042
				H252	.9007
				C252	.8948
				D252	.8813
				E252	.8670
				324 DEG	HAKE
				A324	.9008
				H324	.9056
				C324	.8898
				D324	.8805
				E324	.8720

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCM/RC=	1.4678	STAT XCM/KC=	1.5380	SPIKE			COWL
S9	.7905	S20	.7213	XCM/KC	P/PU	TAP	XCM/RC
R2P1	.9250	R4P1	.8417	TAP			P/PU
R2P2	.9796	R4P2	.8530	S1	.0762	.9646	S14
R2P3	.9494	R4P3	.8583	S2	.0728	.8520	S15
R2P4	.9004	R4P4	.8611	S11	.0728	.8472	S16
R2P5	.8669	R4P5	.8686	S12	.0728	.8465	S17
		R4P6	.8709	S13	.0728	.8508	S18
		R4P7	.8759	S3	.1408	.7645	S19
		R4P8	.8825	S4	.4068	.6608	S20
		R4P9	.8887	S5	.6428	.7329	S21
		R4P10	.8925	S6	.8898	.7783	S22
		R4P11	.8999	S7	1.0178	.7892	S23
		R4P12	.9055	S8	1.1498	.7941	S26
				S9	1.5128	.7905	
				S10	1.8488	.7966	
				S27	5.3000	.7935	
				S28	.6428	.4984	

SPIKE R6		COWL R5	
STAT XCM/RC=	3.5040	STAT XCM/KC=	3.3270
S23	.7834	S23	.7834
R6P1	.8768	R5P1	.8260
R6P2	.8927	R5P2	.8301
R6P3	.9000	R5P3	.8322
R6P4	.9079	R5P4	.8346
R6P5	.9119	R5P5	.8422
R6P8	.9234	R5P6	.8461
R6P9	.9265	R5P7	.8528
R6P10	.9258	R5P8	.8654
R6P11	.9222	R5P9	.8826
		R5P10	.8979
		R5P11	.9155

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	161	FLIGHT DATE	09/20/79	SPIKE POS. DX/HC	.8582	AMBIENT TEMP	289.4 DEG K	MAX-MIN DIST	.0836
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9179 ATMOS	K-CIRCUMF.	.2551
START	2125:20.001	INTERVAL	1.000	ENG. FALLE RECUV	.8803	ENGINE M/M*	.6922	K-RADIAL	.1389
STOP	2125:49.998	ENG CLK RPM	6280.	ENG. FALLE MACH NO	.4384	COWL M/M*	.6223		
				COWL LIP RECUV	.8520	ADDITIVE M/M*	.0700	K-DELTA	-.0010
				MACH AT COWL LIP	.4082			K=A	.1399

SPIKE R1		COWL K3		STAT XCW/HC= 5.4830		
STAT XCW/RC=	.0728	STAT XCW/HC=	.0700	36 DEG HAKE	198 DEG HAKE	
S2	.8413	S14	.6269	A36	.8497 A198	.9065
R1P1	.9845	R3P1	.6219	H36	.9006 H198	.8989
R1P2	.9924	R3P2	.6215	C36	.8861 C198	.9011
R1P3	1.0002	R3P3	.6211	D36	.8747 D198	.8688
R1P4	.9917	R3P4	.6205	E36	.8651 E198	.8456
R1P5	1.0001	R3P5	.6202	90 DEG HAKE	252 DEG HAKE	
R1P6	1.0004	R3P6	.6223	A90	.8484 A252	.8943
R1P7	.9872	R3P7	.4915	H90	.8491 H252	.8844
R1P8	.9998	R3P8	.8929	C90	.8821 C252	.8795
R1P9	.9975	R3P9	.4983	D90	.8642 D252	.8679
		R3P10	1.0007	E90	.8586 E252	.8475
		R3P11	.9999	144 DEG HAKE	324 DEG HAKE	
		R3P12	.9872	A144	.9086 A324	.9012
		R3P13	1.0014	H144	.9025 H324	.8960
		R3P14	.9999	D144	.8692 D324	.8787
		R3P15	1.0006	C144	.8521 C324	.8707
		R3P16	1.0003	E144	.8350 E324	.8608

SPIKE K2		COWL K4		STATIC PRESSURES					
STAT XCW/RC=	1.4674	STAT XCW/HC=	1.5380	SPIKE			COWL		
S9	.7726	S20	.6994	XCW/HC	P/PU	TAP	XCW/HC	P/PU	
R2P1	.9142	R4P1	.8234	S1	.0762	.9624	S14	.0340	.6269
R2P2	.9402	R4P2	.8357	S2	.0726	.8413	S15	.1860	.6213
R2P3	.9479	R4P3	.8430	S11	.0726	.8365	S16	.4150	.6595
R2P4	.8904	R4P4	.8480	S12	.0726	.8350	S17	.8470	.7536
R2P5	.8566	R4P5	.8516	S13	.0726	.8383	S18	1.1740	.7841
		R4P6	.8552	S5	.1408	.7458	S19	1.4590	.7860
		R4P7	.8607	S4	.4068	.6317	S20	1.5400	.6994
		R4P8	.8642	S5	.6428	.7045	S21	1.8270	.7587
		R4P9	.8745	S6	.8848	.7543	S22	2.7840	.7538
		R4P10	.8828	S7	1.0178	.7710	S23	3.2980	.7644
		R4P11	.8819	S8	1.1448	.7758	S26	5.2890	.7649
		R4P12	.8956	S9	1.5128	.7726			
				S10	1.8488	.8810			
				S27	5.5000	.7759			
				S28	.6426	.4987			

SPIKE R6		COWL K5	
STAT XCW/RC=	3.5040	STAT XCW/HC=	3.3270
S23	.7644	S23	.7644
R6P1	.8658	H5P1	.8047
R6P2	.8868	H5P2	.8141
R6P3	.8938	H5P3	.8189
R6P4	.9006	H5P4	.8230
R6P5	.9043	H5P5	.8280
R6P8	.9226	H5P6	.8323
R6P9	.9250	H5P7	.8409
R6P10	.9249	H5P8	.8559
R6P11	.9203	H5P9	.8766
		H5P10	.8932
		H5P11	.9103

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	162	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	289.4 DEG K	MAX-MIN DIST	.0891
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9186 ATMOS	K-CIRCUMF.	.2308
START	2127110.001	INTERVAL	1.000	ENG. FACE RECOV	.8743	ENGINE M/M*	.7141	K-RADIAL	.1358
STOP	2127139.999	ENG COWL RPM	6461.	ENG. FACE MACH NO	.4560	COWL M/M*	.6314	K-DELTA	-.0035
				COWL LIP RECOV	.8440	ADDITIVE M/M*	.0828	K-A	.1393
				MACH AT COWL LIP	.4814				

SPIKE R1		COWL H3		STAT XLM/RC= 5.4830	
STAT XCM/RC=	.0728	STAT XCM/RC=	.0700	36 DEG WAKE	198 DEG WAKE
S2	.8334	S14	.6071	A36	.8437
R1P1	.9976	R3P1	.6007	B36	.8423
R1P2	.9992	R3P2	.6003	C36	.8773
R1P3	.9993	R3P3	.6002	D36	.8690
R1P4	.9993	R3P4	.6004	E36	.8557
R1P5	.9992	R3P5	.6002	90 DEG WAKE	252 DEG WAKE
R1P6	.9993	R3P6	.6028	A90	.8918
R1P7	.9993	R3P7	.9989	B90	.8975
R1P8	.9992	R3P8	.9104	C90	.8787
R1P9	.9963	R3P9	.9986	D90	.8596
		R3P10	.9998	E90	.8503
		R3P11	.9996	144 DEG WAKE	324 DEG WAKE
		R3P12	.9864	A144	.9054
		R3P13	.9999	B144	.8980
		R3P14	.9996	D144	.8603
		R3P15	.9997	C144	.8439
		R3P16	.9996	E144	.8275
				A324	.8943
				B324	.8928
				C324	.8726
				D324	.8641
				E324	.8540

SPIKE R2		COWL H4		STATIC PRESSURES			
STAT XCM/RC=	1.4678	STAT XCM/RC=	1.5380	SPIKE		COWL	
S9	.7589	S20	.6810	XCM/KL	P/PU	IAP	XCM/RC
R2P1	.9044	H4F1	.8121	TAP			P/PU
R2P2	.9772	H4P2	.8273	S1	.0762	.9602	S14
R2P3	.9457	H4P3	.8312	S2	.0728	.8334	S15
R2P4	.8853	H4P4	.8369	S11	.0728	.8266	S16
R2P5	.8446	H4P5	.8456	S12	.0728	.8261	S17
		H4P6	.8501	S13	.0728	.8307	S18
		H4P7	.8543	S3	.1408	.7325	S19
		H4P8	.8633	S4	.4068	.6130	S20
		H4P9	.8720	S5	.0428	.6943	S21
		H4P10	.8747	S6	.8848	.7452	S22
		H4P11	.8853	S7	1.0178	.7578	S23
		H4P12	.8938	S8	1.1448	.7632	S26
				S9	1.5128	.7589	
				S10	1.8486	.8730	
				S27	5.3000	.7627	
				S28	.0428	.9981	
							1.1740
							.7718
							.7398
							.6418
							.6015
							.0340
							1.860
							1.4590
							1.5400
							1.8270
							2.7840
							3.2980
							5.2890

SPIKE R6		COWL H5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.7500	S23	.7500
R6P1	.8583	H5P1	.7975
R6P2	.8792	H5P2	.8013
R6P3	.8871	H5P3	.8075
R6P4	.8959	H5P4	.8111
R6P5	.9017	H5P5	.8172
R6P8	.9173	H5P6	.8211
R6P9	.9206	H5P7	.8266
R6P10	.9194	H5P8	.8444
R6P11	.9145	H5P9	.8651
		H5P10	.8826
		H5P11	.9008

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	163	FLIGHT DATE	09/20/79	SPIKE POS. DX/HC	.8582	AMBIENT TEMP	289.4 DEG K	MAX=MIN DIST	.1002
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9183 ATMUS	K=CIRCUMF.	.2111
START	2:28:25.000	INTERVAL	1.000	ENG. FALC RECOV	.8674	ENGINE M/M*	.7326	K=RADIAL	.1352
STOP	2:28:55.000	ENG CUM RPM	6673.	ENG. FALC MACH NO	.4702	COWL M/M*	.6387		
				COWL LIP RECOV	.8357	ADDITIVE M/M*	.0940	K=DELTA	-.0052
				MACH AT COWL LIP	.4958			K=A	.1404

SPIKE R1		COWL R3		STAT XCM/RC# 5.4830			
STAT	XCM/RC# .0728	STAT	XCM/RC# .0700	36	DEG KAKE	198	DEG RAKE
S2	.8268	S14	.5861	A36	.8900	A198	.8880
R1P1	.9978	R3P1	.5811	H36	.8881	B198	.8823
R1P2	.9989	R3P2	.5804	C36	.8752	C198	.8847
R1P3	.9991	R3P3	.5803	D36	.8594	D198	.8515
R1P4	.9992	K3P4	.5748	E36	.8496	E198	.8257
R1P5	.9993	K3P5	.5745	90 DEG KAKE		252	DEG RAKE
R1P6	.9994	K3P6	.5848	A90	.8907	A252	.8830
R1P7	.9994	K3P7	.9988	H90	.8947	R252	.8793
R1P8	.9988	K3P8	.9433	C90	.8782	C252	.8658
R1P9	.9972	K3P9	.9991	D90	.8563	D252	.8521
		K3P10	1.0006	E90	.8415	E252	.8347
		R3P11	.9991	144 DEG KAKE		324	DEG KAKE
		K3P12	.9870	A144	.9026	A324	.8891
		K3P13	1.0007	H144	.8931	H324	.8918
		K3P14	.9991	D144	.8540	C324	.8677
		K3P15	1.0003	C144	.8349	D324	.8560
		K3P16	.9993	E144	.8157	E324	.8453

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT	XCM/RC# 1.4678	STAT	XCM/RC# 1.5380	SPIKE		COWL	
S9	.7466	S20	.6642	XCM/RC	P/PU	TAP	XCM/RC
R2P1	.9025	K4P1	.8032	TAP			P/PU
R2P2	.9780	R4P2	.8166	S1	.0762	S14	.0340
R2P3	.9433	K4P3	.8242	S2	.0728	S15	.1860
R2P4	.8800	F4P4	.8309	S11	.0728	S16	.4150
R2P5	.8360	K4P5	.8381	S12	.0728	S17	.8470
		K4P6	.8450	S13	.0728	S18	1.1740
		K4P7	.8488	S3	.1408	S19	1.4590
		K4P8	.8569	S4	.4068	S20	1.5400
		K4P9	.8605	S5	.6428	S21	1.8270
		K4P10	.8683	S6	.8848	S22	2.7840
		K4P11	.8781	S7	1.0178	S23	3.2980
		K4P12	.8865	S8	1.1448	S26	5.2890
				S9	1.5128		.7385
				S10	1.6488		
				S27	5.3000		
				S28	.6428		

SPIKE R6		COWL R5	
STAT	XCM/RC# 3.5040	STAT	XCM/RC# 3.3270
S23	.7356	S23	.7356
R6P1	.8506	R5P1	.7877
R6P2	.8718	K5P2	.7906
R6P3	.8819	K5P3	.7451
R6P4	.8886	K5P4	.6011
R6P5	.8978	K5P5	.8086
R6P8	.9141	K5P6	.8102
R6P9	.9174	K5P7	.8191
R6P10	.9169	K5P8	.8372
R6P11	.9115	K5P9	.8572
		K5P10	.8747
		K5P11	.9008

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	166	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.4128	AMBIENT TEMP	290.0 DEG K	MAX-MIN DIST	.0879
		FLIGHT NU.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9186 ATMOS	K=CIRCUMF.	.0279
START	2:38:49.003	INTERVAL	1.000	ENG. FALC RECOV	.9452	ENGINE M/M*	.7084	K=RADIAL	.2080
STOP	2:40:39.999	ENG CUR RPM	5075.	ENG. FALC MACH NU	.3438	COWL M/M*	.3981	K=DELTA	.1677
				COWL LIP RECOV	.9539	ADDITIVE M/M*	.3104	K=A	.3751
				MACH AT COWL LIP	.1929				

SPIKE R1		COWL R3		STAT XCW/RC= 5.4830			
STAT XCW/RC=	.5182	STAT XCW/RC=	.0700	36 DEG MAKE	198 DEG MAKE		
S2	.9325	S14	.9205	A36	.9466	A198	.9690
R1P1	.9998	K3P1	.9260	H36	.9353	H198	.9728
R1P2	1.0004	K3P2	.9257	C36	.9229	C198	.9628
R1P3	1.0006	K3P3	.9259	D36	.9698	D198	.9351
R1P4	1.0007	K3P4	.9259	E36	.9020	E198	.9173
R1P5	1.0007	K3P5	.9260	90 DEG MAKE	252 DEG MAKE		
R1P6	1.0008	K3P6	.9259	A90	.9816	A252	.9616
R1P7	1.0007	K3P7	1.0003	H90	.9769	H252	.9509
R1P8	1.0005	K3P8	.9262	C90	.9582	C252	.9428
R1P9	.9913	K3P9	.9314	D90	.9478	D252	.9353
		K3P10	.9447	E90	.9416	E252	.9257
		K3P11	.9847	144 DEG MAKE	324 DEG MAKE		
		K3P12	.9932	A144	.9850	A324	.9492
		K3P13	1.0012	H144	.9761	H324	.9490
		K3P14	1.0006	D144	.9441	D324	.9390
		K3P15	1.0011	C144	.9333	C324	.9330
		K3P16	1.0010	E144	.9226	E324	.9283

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/RC=	1.9132	STAT XCW/RC=	1.5380	SPIKE		COWL	
S9	.9371	S20	.8942	TAP	XCW/RC	P/P0	
R2P1	.9827	K4P1	.9759	S1	.3692	.9312	S14
R2P2	.9945	K4P2	.9818	S2	.5182	.9325	S15
R2P3	.9896	K4P3	.9831	S11	.5182	.9301	S16
R2P4	.9833	K4P4	.9835	S12	.5182	.9317	S17
R2P5	.9695	K4P5	.9837	S13	.5182	.9322	S18
		K4P6	.9851	S3	.5862	.9367	S19
		K4P7	.9866	S4	.8522	.9453	S20
		K4P8	.9878	S5	1.0862	.9468	S21
		K4P9	.9885	S6	1.3352	.9444	S22
		K4P10	.9895	S7	1.4632	.9399	S23
		K4P11	.9903	S8	1.5952	.9350	S26
		K4P12	.9920	S9	1.9582	.9371	
				S10	2.2942	.9710	
				S27	5.3000	.8721	
				S28	1.0082	.9997	

SPIKE R6		COWL R5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.8603	S23	.8603
R6P1	.9204	K5P1	.9063
R6P2	.9346	K5P2	.9109
R6P3	.9416	K5P3	.9133
R6P4	.9473	K5P4	.9170
R6P5	.9525	K5P5	.9231
R6P8	.9752	K5P6	.9285
R6P9	.9686	K5P7	.9509
R6P10	.9567	K5P8	.9804
R6P11	.9326	K5P9	.9822
		K5P10	.9791
		K5P11	.9801

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	167	FLIGHT DATE	09/20/79	SPIKE POS. OX/KC	.4132	AMBIENT TEMP	299.4 DEG K	MAX-MIN DIST	.1149
START	2:40:39.999	FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9186 ATMUS	K-CIRCUMF.	.5394
STOP	2:42:35.003	INTERVAL	1.000	ENG. FACE RECOV	.9291	ENGINE M/M	.7652	K-RADIAL	.2360
		ENG LOK RPM	5620.	ENG. FACE MACH NO	.4014	COWL M/M	.4854		
				COWL LIP RECOV	.9416	ADDITIVE M/M	.3197	K-DELTA	.1640
				MACH AT COWL LIP	.2202			K-A	.4000

SPIKE R1		COWL K3		STAT XCW/KC = 5.4830			
STAT XCW/KC =	.5178	STAT XCW/KC =	.0700	36 DEG RAKE	198 DEG RAKE		
S2	.9144	S14	.9062	A36	.9324	A198	.9622
R1P1	.9992	R3P1	.9058	B36	.9205	B198	.9634
R1P2	.9997	R3P2	.9059	C36	.8966	C198	.9490
R1P3	1.0001	R3P3	.9058	D36	.8660	D198	.9164
R1P4	.9999	R3P4	.9057	E36	.8745	E198	.8912
R1P5	1.0001	R3P5	.9058	90 DEG RAKE	252 DEG RAKE		
R1P6	1.0001	R3P6	.9060	A90	.9781	A252	.9513
R1P7	1.0001	R3P7	.9999	B90	.9696	B252	.9405
R1P8	.9997	R3P8	.9063	C90	.9458	C252	.9255
R1P9	.9904	R3P9	.9143	D90	.9291	D252	.9151
		R3P10	.9391	E90	.9239	E252	.9049
		R3P11	.9840	144 DEG RAKE	324 DEG RAKE		
		R3P12	.9915	A144	.9613	A324	.9353
		R3P13	1.0010	B144	.9677	B324	.9358
		R3P14	.9998	D144	.9242	C324	.9259
		R3P15	1.0010	C144	.9104	D324	.9144
		R3P16	1.0009	E144	.8965	E324	.9058

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/KC =	1.9128	STAT XCW/KC =	1.5380	SPIKE		COWL	
S9	.9189	S20	.8640	XCW/KC	P/PU	TAP	P/PU
R2P1	.9785	R4P1	.9692	S1	.3688	S14	.0340
R2P2	.9922	R4P2	.9762	S2	.5178	S15	.1860
R2P3	.9858	R4P3	.9779	S11	.5178	S16	.4150
R2P4	.9775	R4P4	.9796	S12	.5178	S17	.8470
R2P5	.9605	R4P5	.9807	S13	.5178	S18	1.1740
		R4P6	.9805	S3	.5850	S19	1.4590
		R4P7	.9816	S4	.8518	S20	1.5400
		R4P8	.9829	S5	1.0678	S21	1.8270
		R4P9	.9840	S6	1.3346	S22	2.7840
		R4P10	.9851	S7	1.4628	S23	3.2980
		R4P11	.9871	S8	1.5948	S26	5.2890
		R4P12	.9884	S9	1.9578		.8257

SPIKE R6		COWL K5			
STAT XCW/KC =	3.5040	STAT XCW/KC =	3.3270	S27	5.3000
S23	.8183	S23	.8183	S28	1.0678
R6P1	.8925	R5P1	.8755		
R6P2	.9112	R5P2	.8825		
R6P3	.9211	R5P3	.8885		
R6P4	.9290	R5P4	.8912		
R6P5	.9349	R5P5	.8968		
R6P8	.9696	R5P6	.9068		
R6P9	.9640	R5P7	.9366		
R6P10	.9472	R5P8	.9724		
R6P11	.9133	R5P9	.9774		
		R5P10	.9748		
		R5P11	.9744		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	168	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.4128	AMBIENT TEMP	290.0 DEG K	MAX-MIN DIST	.1373
		FLIGHT NO.	0	BYPASS POS. OPEN		AMBIENT PRESS	.9186 ATMOS	K-CIRCUMF.	.4378
START	2142135.003	INTERVAL	1.000	ENG. FACE RECOV	.9157	ENGINE M/M*	.8459	K-RADIAL	.2172
STOP	2144125.003	ENG LOW RPM	6088.	ENG. FACE MACH NO	.4469	COML M/M*	.4771		
				COML LIP RECOV	.9320	ADDITIVE M/M*	.3688	K-DELTA	.1468
				MACH AT LOWL LIP	.2395			K-A	.3640

SPIKE M1		CUML M3		STAT XCW/RC= 5.4830	
STAT XCW/RC=	.5182	STAT XCW/RC=	.0700	30 DEG RAKE	198 DEG RAKE
S2	.9001	S14	.8908	A36	.9195
R1P1	.9988	R3P1	.8904	M36	.9063
R1P2	.9994	R3P2	.8907	C36	.8815
R1P3	.9998	R3P3	.8905	D36	.8636
R1P4	.9996	R3P4	.8906	E36	.8524
R1P5	.9998	R3P5	.8905	90 DEG RAKE	252 DEG RAKE
R1P6	1.0001	R3P6	.8904	A90	.9752
R1P7	1.0000	R3P7	.9947	H90	.9635
R1P8	.9995	R3P8	.8910	C90	.9332
R1P9	.9896	R3P9	.9007	D90	.9150
		R3P10	.9306	E90	.9058
		R3P11	.9821	144 DEG RAKE	324 DEG RAKE
		R3P12	.9847	A144	.9781
		R3P13	1.0008	H144	.9627
		R3P14	.9946	D144	.9410
		R3P15	1.0005	C144	.8948
		R3P16	1.0004	E144	.8786
				F324	.8858

SPIKE M2		CUML M4		STATIC PRESSURES			
STAT XCW/RC=	1.9132	STAT XCW/RC=	1.5340	SPIKE		COML	
S9	.9046	S20	.8403	XCW/RC	P/PO	IAP	XCW/RC
R2P1	.9746	R4P1	.9658	S1	.3692	.8995	S14
R2P2	.9914	R4P2	.9724	S2	.5182	.9001	S15
R2P3	.9826	R4P3	.9749	S11	.5182	.8982	S16
R2P4	.9750	R4P4	.9760	S12	.5182	.8944	S17
R2P5	.9533	R4P5	.9765	S13	.5182	.9007	S18
		R4P6	.9761	S3	.5862	.9075	S19
		R4P7	.9745	S4	.8522	.9191	S20
		R4P8	.9807	S5	1.0882	.9209	S21
		R4P9	.9821	S6	1.3352	.9163	S22
		R4P10	.9838	S7	1.4632	.9107	S23
		R4P11	.9853	S8	1.5452	.9020	S26
		R4P12	.9874	S9	1.9582	.9046	
				S10	2.2442	.9529	
				S27	5.3000	.8006	
				S28	1.0882	.9991	

SPIKE M6		CUML M5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.7823	S23	.7823
R6P1	.8710	R5P1	.8509
R6P2	.8931	R5P2	.8579
R6P3	.9034	R5P3	.8661
R6P4	.9160	R5P4	.8644
R6P5	.9249	R5P5	.8704
R6P8	.9654	R5P6	.8859
R6P9	.9581	R5P7	.9252
R6P10	.9429	R5P8	.9644
R6P11	.9012	R5P9	.9750
		R5P10	.9710
		R5P11	.9711

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	169	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.4128	AMHIENT TEMP	290.0 DEG K	MAX-MIN DIST	.1493
		FLIGHT NU.	0	BYPASS POS.	OPEN	AMHIENT PRESS	.9186 ATMOS	K-CIRCUMF.	.3852
START	2144125.003	INTERVAL	1.000	ENG. FALC RECOV	.9108	ENGINE M/M*	.8863	K-RADIAL	.2157
STOP	2145150.003	ENG COU RPM	6269.	ENG. FALC MACH NU	.4704	COWL M/M*	.4941		
				COWL LIP RECOV	.9286	ADDITIVE M/M*	.3922	K-DELTA	.1267
				MACH AT COWL LIP	.2497			K-A	.3425

SPIKE R1		COWL R3		STAT XCM/RCM= 5.4830			
STAT XCM/RCM	.5182	STAT XCM/RCM	.0700	36 DEG RAKE	198 DEG RAKE		
S2	.8947	S14	.8837	A36	.9161	A198	.9511
R1P1	.9985	R3P1	.8832	H36	.9037	H198	.9476
R1P2	.9993	R3P2	.8833	C36	.8773	C198	.9331
R1P3	.9995	K3P3	.8832	O36	.8546	O198	.8882
R1P4	.9995	K3P4	.8834	E36	.8406	E198	.8583
R1P5	.9995	K3P5	.8832	90 DEG RAKE	252 DEG RAKE		
R1P6	.9995	K3P6	.8830	A90	.9728	A252	.9474
R1P7	.9996	K3P7	.9993	H90	.9621	H252	.9281
R1P8	.9995	K3P8	.8839	C90	.9294	C252	.9079
R1P9	.9918	K3P9	.8971	O90	.9097	O252	.8928
		R3P10	.9361	E90	.9008	E252	.8798
		R3P11	.9891	144 DEG RAKE	324 DEG RAKE		
		K3P12	.9893	A144	.9706	A324	.9185
		R3P13	1.0007	H144	.9550	H324	.9264
		R3P14	.9992	O144	.9026	O324	.9044
		K3P15	1.0005	C144	.8885	C324	.8936
		K3P16	1.0005	E144	.8744	E324	.8851

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCM/RCM	1.9132	STAT XCM/RCM	1.5380	SPIKE		COWL	
S9	.8977	S20	.8287	XCM/RCM	P/PO	IAP	XCM/RCM P/PO
R2P1	.9723	K4P1	.9637	S1	.3642	.8931	S14 .0340 .8837
R2P2	.9908	K4P2	.9709	S2	.5182	.8947	S15 .1860 .8805
R2P3	.9844	K4P3	.9732	S11	.5182	.8924	S16 .4150 .8946
R2P4	.9745	K4P4	.9753	S12	.5182	.8929	S17 .8470 .9247
R2P5	.9531	K4P5	.9768	S13	.5182	.8939	S18 1.1740 .9185
		K4P6	.9784	S3	.5862	.9022	S19 1.4590 .9068
		K4P7	.9793	S4	.8522	.9142	S20 1.5400 .8287
		K4P8	.9806	S5	1.0882	.9158	S21 1.8270 .8954
		K4P9	.9817	S6	1.3352	.9108	S22 2.7840 .7216
		K4P10	.9832	S7	1.4632	.9045	S23 3.2980 .7649
		K4P11	.9855	S8	1.5952	.8951	S26 5.2890 .7753
		K4P12	.9875	S9	1.5582	.8977	
				S10	2.2942	.9486	
				S27	5.3000	.7855	
				S28	1.0882	.9989	

SPIKE R6		COWL R5	
STAT XCM/RCM	3.5040	STAT XCM/RCM	3.3270
S23	.7649	S23	.7649
K6P1	.8581	K5P1	.8388
R6P2	.8812	K5P2	.8478
K6P3	.8955	K5P3	.8548
K6P4	.9080	K5P4	.8591
K6P5	.9178	K5P5	.8649
K6P6	.9644	K5P6	.8784
K6P9	.9590	K5P7	.9255
K6P10	.9804	K5P8	.9687
K6P11	.8974	K5P9	.9728
		K5P10	.9714
		K5P11	.9696

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	170	FLIGHT DATE	09/20/79	SPIKE POS. DX/MC	.4128	AMBIENT TEMP	290.0 DEG K	MAX-MIN DIST	.1612
START	2:45:50.003	FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9186 ATMOS	K-CIRCUMF.	.5592
STOP	2:48:5.000	INTERVAL	1.000	ENG. FARE RECOV	.9047	ENGINE M/M*	.9166	K-RADIAL	.2144
		ENG CUR RPM	6457.	ENG. FARE MACH NO	.4896	COML M/M*	.5135	K-DELTA	.1239
				COML LIP RECOV	.9263	ADDITIVE M/M*	.4031	K-A	.3383
				MACH AT COML LIP	.2610				

SPIKE R1		COML R3		STAT XLW/MC= 5.4850	
STAT	XCW/RC= .5182	STAT	XCW/MC= .0700	36 DEG RAKE	198 DEG RAKE
S2	.8898	S14	.8772	A36	.9134
R1P1	.9980	R3P1	.8769	B36	.8979
R1P2	.9988	R3P2	.8765	C36	.8000
R1P3	.9993	R3P3	.8765	D36	.8442
R1P4	.9991	R3P4	.8766	E36	.8288
R1P5	.9992	R3P5	.8764	90 DEG RAKE	252 DEG RAKE
R1P6	.9993	R3P6	.8763	A90	.9734
R1P7	.9993	R3P7	.9993	H90	.9055
R1P8	.9992	R3P8	.8788	C90	.9257
R1P9	.9907	R3P9	.8986	D90	.9036
		R3P10	.9488	E90	.8498
		R3P11	.9948	144 DEG RAKE	324 DEG RAKE
		R3P12	.9896	A144	.9747
		R3P13	1.0000	H144	.9526
		R3P14	.9994	D144	.8470
		R3P15	1.0001	C144	.8776
		R3P16	1.0001	E144	.8582
				A324	.9143
				B324	.9213
				C324	.9008
				D324	.8858
				E324	.8739

SPIKE R2		COML R4		STATIC PRESSURES			
STAT	XCW/RC= 1.9132	STAT	XCW/MC= 1.5380	SPIKE		COML	
S9	.8921	S20	.8184	XCW/MC	P/PU	TAP	XCW/RC
R2P1	.9712	R4P1	.9626	TAP	S14	.0340	.8772
R2P2	.9904	R4P2	.9700	S1	.5692	.8898	.1860
R2P3	.9822	R4P3	.9718	S2	.5182	.8898	.4150
R2P4	.9733	R4P4	.9743	S11	.5182	.8853	.8470
R2P5	.9499	R4P5	.9749	S12	.5182	.8861	.8470
		R4P6	.9750	S13	.5182	.8902	1.1740
		R4P7	.9770	S3	.5862	.8969	1.4590
		R4P8	.9740	S4	.8522	.9095	1.5400
		R4P9	.9805	S5	1.0882	.9112	1.8270
		R4P10	.9828	S6	1.3352	.9061	2.7840
		R4P11	.9843	S7	1.4632	.8994	3.2980
		R4P12	.9861	S8	1.5452	.8892	5.2890
				S9	1.4582	.8921	.7602
				S10	2.2942	.9451	
				S27	5.3000	.7706	
				S28	1.0882	.9984	

SPIKE R6		COML R5	
STAT	XCW/RC= 3.5040	STAT	XLW/MC= 3.3270
S23	.7492	S23	.7492
R6P1	.8491	R5P1	.8301
R6P2	.8742	R5P2	.8342
R6P3	.8903	R5P3	.8440
R6P4	.9028	R5P4	.8487
R6P5	.9140	R5P5	.8565
R6P8	.9640	R5P6	.8731
R6P9	.9563	R5P7	.9171
R6P10	.9364	R5P8	.9643
R6P11	.8918	R5P9	.9644
		R5P10	.9676
		R5P11	.9686

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	173	FLIGHT DATE	09/20/79	SPIKE POS. DI/RK	.0862	AMBIENT TEMP	290.0 DEG K	MAX-MIN DIST	.0618
START	2:51:39.999	FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9186 ATMOS	K-CIRCUMF.	.7839
STOP	2:53:35.000	INTERVAL	1.000	ENG. FARE RECUV	.9483	ENGINE M/M*	.9019	K-RADIAL	.1789
		ENG CUM MPH	4251.	ENG. FACE MACH NO	.2629	COWL M/M*	.3176	K-DELTA	.1868
				COWL LIP RECUV	.9851	ADDITIVE M/M*	.5843	K-A	.3657
				MACH AT COWL LIP	.1022				

SPIKE R1		COWL K3		STAT ALN/RK= 5.4830	
STAT	XCW/RK= .8448	STAT	XCW/RK= .0700	36	DEG RAKE
S2	.9794	S14	.9764	A36	.9451
R1P1	.9987	K3P1	.9764	H36	.9382
R1P2	1.0018	K3P2	.9766	C36	.9278
R1P3	1.0015	K3P3	.9763	D36	.9226
R1P4	1.0015	K3P4	.9762	E36	.9190
R1P5	1.0018	K3P5	.9763	90	DEG RAKE
R1P6	1.0015	K3P6	.9764	A90	.9176
R1P7	1.0015	K3P7	1.0015	H90	.9098
R1P8	1.0016	K3P8	.9764	C90	.9046
R1P9	.9996	K3P9	.9766	D90	.9007
		K3P10	.9777	E90	.9532
		K3P11	.9847	144	DEG RAKE
		K3P12	.9918	A144	.9714
		K3P13	1.0020	H144	.9599
		K3P14	1.0016	D144	.9490
		K3P15	1.0019	C144	.9422
		K3P16	1.0019	E144	.9354
				B198	.9727
				C198	.9642
				D198	.9603
				E198	.9362
				252	DEG RAKE
				A252	.9733
				B252	.9556
				C252	.9447
				D252	.9437
				E252	.9363
				324	DEG RAKE
				A324	.9435
				B324	.9386
				C324	.9378
				D324	.9406
				E324	.9413

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT	XCW/RK= 2.2398	STAT	XCW/RK= 1.5380	SPIKE		COWL	
S9	.9514	S20	.9077	ALN/RK	P/PU	TAP	P/PU
R2P1	.9936	K4P1	.9940	S1	.0956	S14	.0340
R2P2	.9967	K4P2	.9973	S2	.8448	S15	.1860
R2P3	.9906	K4P3	.9974	S11	.8448	S16	.4150
R2P4	.9738	K4P4	.9976	S12	.8448	S17	.8470
R2P5	.9363	K4P5	.9987	S13	.8448	S18	1.1740
		K4P6	.9987	S3	.9128	S19	1.4590
		K4P7	.9992	S4	1.1788	S20	1.5400
		K4P8	1.0000	S5	1.4148	S21	1.8270
		K4P9	1.0001	S6	1.6616	S22	2.7840
		K4P10	1.0005	S7	1.7898	S23	3.2980
		K4P11	1.0010	S8	1.9218	S26	5.2690
		K4P12	1.0014	S9	2.2848		.9008
				S10	2.6208		
				S27	5.3000		
				S28	1.4148		

SPIKE R6		COWL K5	
STAT	XCW/RK= 3.5040	STAT	ALN/RK= 3.3270
S23	.8940	S23	.8940
K6P1	.9358	K5P1	.9271
K6P2	.9429	K5P2	.9300
K6P3	.9458	K5P3	.9343
K6P4	.9493	K5P4	.9366
K6P5	.9539	K5P5	.9426
K6P8	.9490	K5P6	.9444
K6P9	.9383	K5P7	.9487
K6P10	.9287	K5P8	.9849
K6P11	.9166	K5P9	.9863
		K5P10	.9825
		K5P11	.9813

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	174	FLIGHT DATE	09/20/79	SPIKE POS. DX/KL	.0862	AMBIENT TEMP	290.6 DEG K	MAX=MIN DIST	.1108
START	2153135.000	FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9186 ATMUS	K=CIRCUMF.	.7023
STOP	21551 5.002	INTERVAL	1.000	ENG. FACE RECUV	.9134	ENGINE M/M*	.9761	K=RADIAL	.2569
		ENG LOK RPM	5039.	ENG. FACE MACH NU	.3458	COWL M/M*	.3929	K=DELTA	.2359
				COWL LIP RECUV	.9745	ADDITIVE M/M*	.5832	K=A	.4929
				MACH AT COWL LIP	.1283				

SPIKE R1		COWL R3		STAT XLM/KC= 5.0830	
STAT XCM/RC=	.8448	STAT XCM/RC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9657	S14	.9610	A36	.9089 A198
R1P1	.9970	R3P1	.9610	H36	.8959 H198
R1P2	1.0000	R3P2	.9610	C36	.8836 C198
R1P3	1.0006	R3P3	.9612	D36	.8734 D198
R1P4	1.0006	R3P4	.9613	E36	.8658 E198
R1P5	1.0006	R3P5	.9612	90 DEG HAKE	252 DEG HAKE
R1P6	1.0007	R3P6	.9612	A90	.9670 A252
R1P7	1.0007	R3P7	.9999	H90	.9477 H252
R1P8	.9998	R3P8	.9613	C90	.9365 C252
R1P9	.9977	R3P9	.9605	D90	.9306 D252
		R3P10	.9615	E90	.9181 E252
		R3P11	.9691	144 DEG HAKE	324 DEG HAKE
		R3P12	.9810	A144	.9603 A324
		R3P13	1.0008	H144	.9350 H324
		R3P14	1.0000	D144	.9115 D324
		R3P15	1.0010	C144	.8988 C324
		R3P16	1.0010	E144	.8862 E324

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCM/RC=	2.2398	STAT XCM/RC=	1.5380	SPIKE		COWL	
S9	.9203	S20	.8551	XCM/KC	P/PO	XCM/RC	P/PO
R2P1	.9879	H4P1	.9887	S1	.8958 .9654	S14	.0340 .9610
R2P2	.9926	H4P2	.9931	S2	.8448 .9657	S15	.1860 .9589
R2P3	.9826	H4P3	.9936	S11	.8448 .9654	S16	.4150 .9606
R2P4	.9545	H4P4	.9938	S12	.8448 .9647	S17	.8470 .9721
R2P5	.8911	H4P5	.9944	S13	.8448 .9651	S18	1.1740 .9566
		H4P6	.9947	S3	.9126 .9652	S19	1.4590 .9308
		H4P7	.9959	S4	1.1788 .9446	S20	1.5400 .8551
		H4P8	.9966	S5	1.4148 .9242	S21	1.8270 .9200
		H4P9	.9975	S6	1.0618 .9171	S22	2.7840 .7776
		H4P10	.9985	S7	1.7848 .9173	S23	3.2980 .8229
		H4P11	.9995	S8	1.9218 .9171	S26	5.2890 .8356
		H4P12	1.0002	S9	2.2048 .9203		
				S10	2.6208 .9160		
				S27	5.3000 .8413		
				S28	1.4148 .9994		

SPIKE R6		COWL R5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.8229	S23	.8229
R6P1	.8934	R5P1	.8748
R6P2	.9040	R5P2	.8778
R6P3	.9099	R5P3	.8839
R6P4	.9188	R5P4	.8888
R6P5	.9239	R5P5	.8922
R6P8	.9170	R5P6	.9038
R6P9	.9023	R5P7	.9373
R6P10	.8887	R5P8	.9771
R6P11	.8614	R5P9	.9801
		R5P10	.9724
		R5P11	.9623

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	175	FLIGHT DATE	09/20/79	SPIKE POS. UX/RX	.0862	AMBIENT TEMP	290.6 DEG K	MAX-MIN DIST	.1557
		FLIGHT NO.	0	BYPASS POS. UPEN		AMBIENT PRESS	.9186 ATMOS	K-CIRCUMF.	.6322
START	2:55:5.002	INTERVAL	1.000	ENG. FALC REC'D	.8853	ENGINE M/M*	1.0456	K-RADIAL	.2044
STOP	2:56:50.001	ENG CUM RPM	5628.	ENG. FALC MACH NU	.4072	COWL M/M*	.4322	K-DELTA	.2564
				COWL LIP REC'D	.9673	ADDITIVE M/M*	.6134	K=A	.5508
				MACH AT COWL LIP	.1425				

SPIKE R1		COWL K3		STAT X/W/R/C# 5.4830	
STAT X/W/R/C#	.H448	STAT X/W/R/C#	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9568	S14	.9507	A36	.8805 A198
R1P1	.9959	P3P1	.9510	H36	.8655 B198
R1P2	.9994	K3P2	.9510	E36	.8449 C198
R1P3	1.0002	R3P3	.9505	U36	.8341 D198
R1P4	1.0001	K3P4	.9504	E36	.8237 E198
R1P5	1.0000	K3P5	.9506	90 DEG HAKE	252 DEG HAKE
R1P6	1.0000	K3P6	.9507	A90	.9615 A252
R1P7	1.0002	K3P7	.9996	H90	.9330 B252
R1P8	.9999	R3P8	.9501	C90	.9139 C252
R1P9	.9962	K3P9	.9501	D90	.9031 D252
		K3P10	.9520	E90	.8933 E252
		K3P11	.9625	144 DEG HAKE	324 DEG HAKE
		K3P12	.9765	A144	.9523 A324
		K3P13	1.0002	H144	.9109 B324
		K3P14	.9991	D144	.8816 C324
		K3P15	1.0007	C144	.8657 D324
		K3P16	1.0007	E144	.8504 E324

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT X/W/R/C#	2.2398	STAT X/W/R/C#	1.5380	SPIKE		COWL	
S9	.8967	S20	.8138	X/W/R/L	P/PO	X/W/R/L	P/PO
R2P1	.9835	K4P1	.9841	S1	.6958 .9568	S14	.0340 .9507
R2P2	.9903	R4P2	.9907	S2	.8448 .9568	S15	.1860 .9482
R2P3	.9757	K4P3	.9907	S11	.8448 .9568	S16	.4150 .9510
R2P4	.9387	K4P4	.9915	S12	.8448 .9557	S17	.8470 .9654
R2P5	.8547	K4P5	.9927	S13	.8448 .9558	S18	1.1740 .9453
		K4P6	.9932	S3	.9128 .9570	S19	1.4590 .9119
		K4P7	.9945	S4	1.1788 .9368	S20	1.5400 .8138
		K4P8	.9954	S5	1.4148 .9099	S21	1.8270 .8975
		K4P9	.9962	S6	1.6618 .8929	S22	2.7840 .7041
		K4P10	.9981	S7	1.7898 .8933	S23	3.2980 .7678
		K4P11	.9983	S8	1.9218 .8935	S26	5.2890 .7832
		K4P12	.9992	S9	2.2848 .8967		
				S10	2.6208 .8864		
				S27	5.3000 .7900		
				S28	1.4148 .9990		

SPIKE R6		COWL K5	
STAT X/W/R/C#	3.5040	STAT X/W/R/C#	3.3270
S23	.7678	S23	.7678
R6P1	.8594	K5P1	.8363
R6P2	.8728	K5P2	.8401
R6P3	.8819	K5P3	.8474
R6P4	.8919	K5P4	.8536
R6P5	.8990	K5P5	.8628
R6P8	.8971	K5P6	.8737
R6P9	.8749	K5P7	.9177
R6P10	.8553	K5P8	.9686
R6P11	.8233	K5P9	.9726
		K5P10	.9615
		K5P11	.9500

YF-12 INLET NOISE SUPPRESSION STUDY
 RUN 176 FLIGHT DATE 09/20/79 SPIKE POS. DX/KC .0862 AMBIENT TEMP 290.6 DEG K MAX-MIN DIST .1863
 FLIGHT NO. 0 BYPASS POS. OPEN AMBIENT PRESS .9186 ATMOS K=CIRCUMF. .4992
 START 2:56:50.001 INTERVAL 1.000 ENG. FACE RECOV .8626 ENGINE M/M* 1.1426 K=RADIAL .2844
 STOP 2:57:20.001 ENG LOW RPM 6091. ENG. FACE MACH NO .4545 COWL M/M* .4851 K=DELTA .2077
 COWL LIP RECOV .9646 ADDITIVE M/M* .6575 K=A .4921
 MACH AT COWL LIP .1610

SPIKE R1		COWL R3		STAT XCW/KC 5.4830	
STAT XCW/KC	.8448	STAT XCW/KC	.0700	36 DEG RAKE	198 DEG RAKE
S2	.9509	S14	.9437	A36	.8592 A198 .9230
R1P1	.9951	R3P1	.9446	B36	.8410 H198 .8998
R1P2	.9992	R3P2	.9443	C36	.8165 C198 .8836
R1P3	.9998	R3P3	.9443	D36	.8006 D198 .8229
R1P4	.9997	R3P4	.9445	E36	.7911 E198 .7949
R1P5	.9998	R3P5	.9443	90 DEG RAKE	252 DEG RAKE
R1P6	.9998	R3P6	.9444	A90	.9517 A252 .9229
R1P7	.9997	R3P7	.9443	B90	.9103 B252 .8769
R1P8	.9994	R3P8	.9435	C90	.8898 C252 .8535
R1P9	.9967	R3P9	.9441	D90	.8793 D252 .8510
		R3P10	.9465	E90	.8695 E252 .8400
		R3P11	.9611	144 DEG RAKE	324 DEG RAKE
		R3P12	.9778	A144	.9381 A324 .8639
		R3P13	1.0002	H144	.8916 B324 .8536
		R3P14	.9942	D144	.8596 C324 .8452
		R3P15	1.0005	C144	.8397 D324 .8455
		R3P16	1.0001	E144	.8198 E324 .8419

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/KC	2.2398	STAT XCW/KC	1.5380	SPIKE		COWL	
S9	.8799	S20	.7847	XCW/KC	P/PO	IAP	XCW/KC P/PO
R2P1	.9829	R4P1	.9826	S1	.6950	.9508	S14 .0340 .9437
R2P2	.9884	R4P2	.9844	S2	.8448	.9509	S15 .1860 .9413
R2P3	.9725	R4P3	.9846	S11	.8448	.9505	S16 .4150 .9449
R2P4	.9302	R4P4	.9912	S12	.8448	.9492	S17 .8470 .9613
R2P5	.8344	R4P5	.9923	S13	.8448	.9512	S18 1.1740 .9385
		R4P6	.9925	S3	.9128	.9513	S19 1.4590 .8990
		R4P7	.9940	S4	1.1788	.9279	S20 1.5400 .7847
		R4P8	.9947	S5	1.4148	.8969	S21 1.8270 .8818
		R4P9	.9960	S6	1.6618	.8769	S22 2.7840 .6390
		R4P10	.9972	S7	1.7848	.8781	S23 3.2980 .7244
		R4P11	.9982	S8	1.9218	.8778	S26 5.2890 .7407
		R4P12	.9990	S9	2.2848	.8799	
				S10	2.6208	.8615	
				S27	5.3000	.7494	
				S28	1.4148	.9969	

SPIKE R6		COWL R5	
STAT XCW/KC	3.5040	STAT XCW/KC	3.3270
S23	.7244	S23	.7244
R6P1	.8330	R5P1	.8030
R6P2	.8492	R5P2	.8108
R6P3	.8574	R5P3	.8165
R6P4	.8704	R5P4	.8202
R6P5	.8809	R5P5	.8309
R6P8	.8827	R5P6	.8527
R6P9	.8575	R5P7	.9004
R6P10	.8799	R5P8	.9631
R6P11	.7906	R5P9	.9672
		R5P10	.9604
		R5P11	.9441

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	177	FLIGHT DATE	09/20/79	SPIKE POS. DX/MC	.0062	AMBIENT TEMP	291.1 DEG K	MAX-MIN DIST	.1999
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9186 ATMUS	K-CIRCUMF.	.4577
START	2:58:25.000	INTERVAL	1.000	ENG. FUEL RECOV	.8532	ENGINE M/M*	1.1467	K-RADIAL	.2863
STOP	2:59:40.002	ENG LOW RPM	6265.	ENG. FUEL MACH NO	.4755	COWL M/M*	.4987	K-DELTA	.1969
				COWL LIP RECOV	.9631	ADDITIVE M/M*	.6879	K-A	.4832
				MACH AT COWL LIP	.1659				

SPIKE H1		COWL H3		STAT XCW/MC# 5.4830			
STAT	XCW/MC# .8448	STAT	XLW/MC# .0700	36 DEG	RAKE	198 DEG	RAKE
S2	.9486	S14	.9409	A36	.8479	A198	.9220
R1P1	.9954	R3P1	.9416	H36	.8302	H198	.8948
R1P2	.9990	R3P2	.9415	C36	.8064	C198	.8744
R1P3	.9996	R3P3	.9417	D36	.7881	D198	.8094
R1P4	.9995	R3P4	.9414	E36	.7779	E198	.7797
R1P5	.9997	R3P5	.9415	90 DEG	RAKE	252 DEG	RAKE
R1P6	.9996	R3P6	.9415	A90	.9484	A252	.9212
R1P7	.9995	R3P7	.9419	B90	.9116	B252	.8707
R1P8	.9989	R3P8	.9410	C90	.8809	C252	.8373
R1P9	.9956	R3P9	.9413	D90	.8717	D252	.8358
		R3P10	.9452	E90	.8587	E252	.8261
		R3P11	.9616	144 DEG	RAKE	324 DEG	RAKE
		R3P12	.9795	A144	.9296	A324	.8608
		R3P13	1.0000	H144	.8842	H324	.8457
		R3P14	.9989	D144	.8481	D324	.8348
		R3P15	1.0000	C144	.8288	C324	.8333
		R3P16	1.0004	E144	.8094	E324	.8295

SPIKE R2		COWL H4		STATIC PRESSURES					
STAT	XCW/MC# 2.2398	STAT	XLW/MC# 1.5380	SPIKE		COWL			
S9	.8730	S20	.7734	TAP	XCW/MC	P/PU	TAP	XCW/MC	P/PU
R2P1	.9829	R4P1	.9831	S1	.6958	.9484	S14	.0340	.9409
R2P2	.9887	R4P2	.9844	S2	.8448	.9486	S15	.1860	.9383
R2P3	.9706	R4P3	.9905	S11	.8448	.9477	S16	.4150	.9423
R2P4	.9251	R4P4	.9907	S12	.8448	.9468	S17	.8470	.9597
R2P5	.8264	R4P5	.9920	S13	.8448	.9483	S18	1.1740	.9352
		R4P6	.9925	S3	.9128	.9487	S19	1.4590	.8934
		R4P7	.9936	S4	1.1788	.9241	S20	1.5400	.7734
		R4P8	.9947	S5	1.4148	.8914	S21	1.8270	.8752
		R4P9	.9957	S6	1.6618	.8699	S22	2.7840	.6098
		R4P10	.9971	S7	1.7898	.8769	S23	3.2980	.7068
		R4P11	.9981	S8	1.9218	.8711	S26	5.2890	.7223
		R4P12	.9991	S9	2.2848	.8730			
				S10	2.6208	.8506			
				S27	5.3000	.7317			
				S28	1.4148	.9987			

SPIKE H6		COWL H5	
STAT	XCW/MC# 3.5040	STAT	XLW/MC# 3.3270
S23	.7068	S23	.7068
R6P1	.8197	R5P1	.7915
R6P2	.8378	R5P2	.7990
R6P3	.8485	R5P3	.8068
R6P4	.8607	R5P4	.8094
R6P5	.8719	R5P5	.8248
R6P8	.8763	R5P6	.8445
R6P9	.8497	R5P7	.8892
R6P10	.8202	R5P8	.9582
R6P11	.7792	R5P9	.9662
		R5P10	.9569
		R5P11	.9438

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	17A	FLIGHT DATE	09/20/79	SPIKE POS. DX/MC	.0002	AMBIENT TEMP	291.1 DEG K	MAX-MIN DIST	.2181
		FLIGHT NO.	0	HYPASS POS. UPEN		AMBIENT PRESS	.9186 ATMOS	K-CIRCUMF.	.4291
START	2:59:40.002	INTERVAL	1.000	ENG. FACE RECOV	.8444	ENGINE M/M*	1.2260	K-RADIAL	.2848
STOP	3: 1: 0.003	ENG CLK RPM	6463.	ENG. FACE MACH NO	.4973	COWL M/M*	.4932	K-DELTA	.1932
				COWL LIP RECOV	.9608	ADDITIVE M/M*	.7328	K-A	.4780
				MACH AT COWL LIP	.1644				

SFIKE #1		COWL #3		STAT X/LW/MC# 5.4830	
STAT XCW/MC#	.8448	STAT XCW/MC#	.0700	36 DEG WAKE	198 DEG WAKE
S2	.9466	S14	.9391	A36	.8396
R1P1	.9951	K3P1	.9398	B36	.8193
R1P2	.9993	K3P2	.9398	C36	.7944
R1P3	.9999	K3P3	.9398	D36	.7752
R1P4	.9999	K3P4	.9397	E36	.7624
R1P5	1.0000	K3P5	.9396	90 DEG WAKE	252 DEG WAKE
R1P6	1.0002	K3P6	.9390	A90	.9459
R1P7	1.0003	K3P7	.9992	H90	.8491
R1P8	.9993	K3P8	.9389	C90	.8083
R1P9	.9957	K3P9	.9369	D90	.8564
		K3P10	.9418	E90	.8486
		K3P11	.9556	144 DEG WAKE	324 DEG WAKE
		K3P12	.9745	A144	.9391
		K3P13	1.0003	H144	.8796
		K3P14	.9990	D144	.8374
		K3P15	1.0004	C144	.8172
		K3P16	1.0002	E144	.7971
				A324	.8528
				H324	.8360
				C324	.8254
				D324	.8227
				E324	.8176

SFIKE #2		COWL #4		STATIC PRESSURES			
STAT XCW/MC#	2.2398	STAT XCW/MC#	1.5380	SPIKE		COWL	
S9	.8667	S26	.7627	XCW/MC	P/PO	XCW/MC	P/PO
K2P1	.9820	K4P1	.9808	S1	.6958	S14	.0340
K2P2	.9874	K4P2	.9881	S2	.6446	S15	.1860
K2P3	.9701	K4P3	.9894	S11	.6448	S16	.4150
K2P4	.9218	K4P4	.9896	S12	.6448	S17	.8470
K2P5	.8140	K4P5	.9911	S13	.6448	S18	1.1740
		K4P6	.9916	S3	.9126	S19	1.4590
		K4P7	.9935	S4	1.1788	S20	1.5400
		K4P8	.9950	S5	1.4146	S21	1.8270
		K4P9	.9957	S6	1.6016	S22	2.7840
		K4P10	.9973	S7	1.7898	S23	3.2980
		K4P11	.9982	S8	1.9218	S26	5.2890
		K4P12	.9990	S9	2.2848		.8667
				S10	2.6208		.8342
				S27	5.3000		.7141
				S28	1.4148		.9990

SFIKE #6		COWL #5	
STAT XCW/MC#	3.5040	STAT XCW/MC#	3.3270
S23	.6883	S23	.6883
R6P1	.8086	K5P1	.7780
R6P2	.8291	K5P2	.7875
R6P3	.8462	K5P3	.7953
R6P4	.8518	K5P4	.7997
R6P5	.8645	K5P5	.8101
R6P8	.8689	K5P6	.8348
R6P9	.8404	K5P7	.8875
R6P10	.8107	K5P8	.9554
R6P11	.7621	K5P9	.9648
		K5P10	.9500
		K5P11	.9419

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	181	FLIGHT DATE	09/20/79	SPIKE POS.	DX/RK	.0802	AMBIENT TEMP	291.7 DEG K	MAX-MIN DIST	.0405
		FLIGHT NO.	0	BYPASS POS.	UPEN		AMBIENT PRESS	.9191 ATMOS	K=CIRCUMF.	.5711
START	3: 01 9.000	INTERVAL	1.000	ENG. FACE RECUV		.9637	ENGINE M/M*	.9147	K=RADIAL	.1208
STOP	3: 01 34.999	ENG LOK RPM	4250.	ENG. FACE MACH NO		.2454	COWL M/M*	.4686	K=DELTA	-.0285
				COWL LIP RECUV		.9627	ADDITIVE M/M*	.4861	K=A	.1573
				MACH AT COWL LIP		.1556				

SPIKE R1		COWL R3		STAT XLW/RK= 5.4850	
STAT	XCW/RK= .8448	STAT	XCW/RK= .0700	36 DEG	HAKE
S2	.9503	S14	.9427	A36	.9723
R1P1	.9963	R3P1	.9422	A198	.9694
R1P2	1.0007	R3P2	.9422	B36	.9788
R1P3	1.0020	R3P3	.9422	B198	.9697
R1P4	1.0019	R3P4	.9423	C36	.9696
R1P5	1.0018	R3P5	.9416	C198	.9728
R1P6	1.0017	R3P6	.9417	D36	.9591
R1P7	1.0017	R3P7	1.0016	D198	.9592
R1P8	1.0011	R3P8	.9418	E36	.9529
R1P9	.9985	R3P9	.9424	E198	.9509
		R3P10	.9453	90 DEG	HAKE
		R3P11	.9602	A90	.9717
		R3P12	.9784	A252	.9679
		R3P13	1.0018	B90	.9822
		R3P14	1.0010	B252	.9661
		R3P15	1.0021	C90	.9690
		R3P16	1.0015	C252	.9640
				D90	.9586
				D252	.9598
				E90	.9520
				E252	.9535
				144 DEG	HAKE
				A144	.9743
				A324	.9716
				B144	.9691
				B324	.9773
				D144	.9504
				C324	.9646
				C144	.9468
				D324	.9579
				E144	.9432
				E324	.9563

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT	XCW/RK= 2.2398	STAT	XCW/RK= 1.5380	SPIKE		COWL	
S9	.8821	S20	.7431	XCW/RK	P/PO	IAP	P/PO
R2P1	.9736	R4P1	.9766	S1	.8958	S14	.0340
R2P2	.9940	R4P2	.9895	S2	.8448	S15	.1860
R2P3	.9878	R4P3	.9909	S11	.8448	S16	.4150
R2P4	.9624	R4P4	.9923	S12	.8448	S17	.8470
R2P5	.9346	R4P5	.9935	S13	.8448	S18	1.1740
		R4P6	.9941	S3	.9128	S19	1.4590
		R4P7	.9954	S4	1.1780	S20	1.5400
		R4P8	.9966	S5	1.4146	S21	1.8270
		R4P9	.9977	S6	1.6618	S22	2.7840
		R4P10	.9984	S7	1.7898	S23	3.2980
		R4P11	.9997	S8	1.9216	S26	5.2890
		R4P12	1.0006	S9	2.2848		.8821
				S10	2.6208		.9524
				S27	5.3000		.9253
				S28	1.4148		1.0001

SPIKE R6		COWL R5	
STAT	XCW/RK= 3.5040	STAT	XCW/RK= 3.3270
S23	.9177	S23	.9177
R6P1	.9442	R5P1	.9247
R6P2	.9486	R5P2	.9259
R6P3	.9492	R5P3	.9261
R6P4	.9523	R5P4	.9267
R6P5	.9557	R5P5	.9276
R6P8	.9754	R5P6	.9275
R6P9	.9850	R5P7	.9276
R6P10	.9907	R5P8	.9349
R6P11	.9931	R5P9	.9455
		R5P10	.9606
		R5P11	.9436

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	182	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.0860	AMBIENT TEMP	292.2 DEG K	MAX-MIN DIST	.0469
START	3:13:0.000	FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9186 ATMOS	K-CIRCUMF.	.5186
STOP	3:13:36.000	INTERVAL	1.000	ENG. FACE RECOV	.9584	ENGINE M/M	.9338	K-RADIAL	.1574
		ENG COM RPM	4432.	ENG. FACE MACH NO	.2612	COML M/M	.4869		
				COML LIP RECOV	.9583	ADDITIVE M/M	.4469	K-DELTA	-.0490
				MACH AT COML LIP	.1627			K-A	.2064

SPIKE R1		COML M3		STAT XCW/MC= 5.4850	
STAT XCW/RC=	.8450	STAT XCW/ML=	.0700	36 DEG MAKE	198 DEG MAKE
S2	.9448	S14	.9367	A36	.9685
R1P1	.9967	R3P1	.9363	B36	.9771
R1P2	1.0012	R3P2	.9362	C36	.9643
R1P3	1.0021	R3P3	.9360	D36	.9551
R1P4	1.0019	R3P4	.9361	E36	.9471
R1P5	1.0024	R3P5	.9362	90 DEG MAKE	252 DEG MAKE
R1P6	1.0023	R3P6	.9362	A90	.9640
R1P7	1.0024	R3P7	1.0018	H90	.9742
R1P8	1.0019	R3P8	.9360	C90	.9651
R1P9	.9998	R3P9	.9361	D90	.9523
		R3P10	.9389	E90	.9444
		R3P11	.9518	144 DEG MAKE	324 DEG MAKE
		R3P12	.9718	A144	.9724
		R3P13	1.0021	H144	.9656
		R3P14	1.0011	D144	.9432
		R3P15	1.0026	C144	.9367
		R3P16	1.0025	E144	.9343
				B324	.9764
				C324	.9603
				D324	.9521
				E324	.9510

SPIKE R2		COML M4		STATIC PRESSURES			
STAT XCW/RC=	2.2400	STAT XCW/ML=	1.5340	SPIKE		COML	
S9	.8664	S20	.7038	XCW/RC	P/PO	IAP	
R2P1	.9713	R4P1	.9733	S1	.0960	.9445	S14
R2P2	.9944	R4P2	.9800	S2	.8450	.9448	S15
R2P3	.9871	R4P3	.9847	S11	.8450	.9416	S16
R2P4	.9582	R4P4	.9408	S12	.8450	.9422	S17
R2P5	.9256	R4P5	.9418	S13	.8450	.9453	S18
		R4P6	.9450	S3	.9150	.9423	S19
		R4P7	.9449	S4	1.1740	.9124	S20
		R4P8	.9465	S5	1.4150	.8664	S21
		R4P9	.9478	S6	1.0020	.8217	S22
		R4P10	.9445	S7	1.7400	.8203	S23
		R4P11	1.0001	S8	1.4220	.8246	S26
		R4P12	1.0004	S9	2.2850	.8664	
				S10	2.6210	.9450	
				S27	5.3000	.9153	
				S28	1.4150	1.0013	

SPIKE M6		COML M5	
STAT XCW/RC=	3.5040	STAT XCW/ML=	3.3270
S23	.9064	S23	.9064
M6P1	.9351	M5P1	.9142
M6P2	.9395	M5P2	.9151
M6P3	.9415	M5P3	.9159
M6P4	.9482	M5P4	.9157
M6P5	.9476	M5P5	.9159
M6P8	.9743	M5P6	.9167
M6P9	.9854	M5P7	.9177
M6P10	.9902	M5P8	.9271
M6P11	.9922	M5P9	.9363
		M5P10	.9560
		M5P11	.9819

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	183	FLIGHT DATE	09/20/79	SPIKE POS.	UX/MC	.0862	AMBIENT TEMP	292.2 DEG K	MAX-MIN DIST	.0560
		FLIGHT NO.	0	BYPASS POS.	CLOSED		AMBIENT PRESS	.9190 ATMOS	K-CIRCUMF.	.4784
START	3:14:55.000	INTERVAL	1.000	ENG. FACE RECOV		.9497	ENGINE M/M*	.9570	K-RADIAL	.1684
STOP	3:15:25.000	ENG CUR RPM	4652.	ENG. FACE MACH NU		.2842	COWL M/M*	.5201		
				COWL LIP RECOV		.9517	ADDITIVE M/M*	.4369	K=DELTA	-.0501
				MACH AT COWL LIP		.1754			K=A	.2185

SPIKE R1		COWL R3		STAT XCW/MC# 5.4830			
STAT	XCW/MC# .8448	STAT	XCW/MC# .0700	36	DEG HAKE	198	DEG HAKE
S2	.9357	S14	.9274	A36	.9610	A198	.9588
R1P1	.9955	K3P1	.9200	M36	.9704	B198	.9553
M1P2	1.0006	K3P2	.9203	C36	.9501	C198	.9501
M1P3	1.0016	K3P3	.9203	D36	.9457	D198	.9413
R1P4	1.0015	K3P4	.9200	E36	.9352	E198	.9331
R1P5	1.0016	K3P5	.9200	90	DEG HAKE	252	DEG HAKE
R1P6	1.0016	K3P6	.9200	A90	.9622	A252	.9588
R1P7	1.0016	K3P7	1.0009	H90	.9738	H252	.9566
R1P8	1.0009	K3P8	.9255	C90	.9582	C252	.9505
R1P9	.9977	K3P9	.9200	D90	.9429	D252	.9449
		K3P10	.9301	E90	.9325	E252	.9358
		K3P11	.9403	144	DEG HAKE	324	DEG HAKE
		K3P12	.9703	A144	.9607	A324	.9633
		K3P13	1.0022	H144	.9551	H324	.9693
		K3P14	1.0006	D144	.9295	C324	.9521
		K3P15	1.0022	C144	.9248	D324	.9417
		K3P16	1.0021	E144	.9200	E324	.9401

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT	XCW/MC# 2.2398	STAT	XCW/MC# 1.5380				
S9	.8412	S20	.6532	SPIKE		COWL	
R2P1	.9650	K4P1	.9685	XCW/MC	P/PO	IAP	P/PO
R2P2	.9930	K4P2	.9846	S1	.6958	S14	.0340
R2P3	.9829	K4P3	.9802	S2	.8448	S15	.1860
R2P4	.9480	K4P4	.9864	S11	.8448	S16	.4150
R2P5	.9094	K4P5	.9900	S12	.8448	S17	.8470
		K4P6	.9907	S13	.8448	S18	1.1740
		K4P7	.9930	S3	.9128	S19	1.4590
		K4P8	.9954	S4	1.1788	S20	1.5400
		K4P9	.9961	S5	1.4148	S21	1.8270
		K4P10	.9983	S6	1.6618	S22	2.7840
		K4P11	.9947	S7	1.7898	S23	3.2980
		K4P12	1.0006	S8	1.9218	S26	5.2890
				S9	2.2848		
				S10	2.6208		
				S27	5.3000		
				S28	1.4148	1.0003	

SPIKE R6		COWL R5	
STAT	XCW/MC# 3.5040	STAT	XCW/MC# 3.3270
S23	.8879	S23	.8879
K6P1	.9238	P5P1	.8974
K6P2	.9274	M5P2	.8973
K6P3	.9328	K5P3	.8996
K6P4	.9348	K5P4	.8985
K6P5	.9391	K5P5	.8996
K6P8	.9696	K5P6	.8942
K6P9	.9829	K5P7	.9012
K6P10	.9895	P5P8	.9086
K6P11	.9908	M5P9	.9234
		K5P10	.9451
		K5P11	.9774

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	184	FLIGHT DATE	09/20/79	SPIKE POS. DX/KC	.0861	AMBIENT TEMP	292.2 DEG K	MAX-MIN DIST	.0659
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9188 ATMOS	K-CIRCUMF.	.4476
START	3:16:10.000	INTERVAL	1.000	ENG. FALC RECOV	.9422	ENGINE M/M*	.9719	K-RADIAL	.1952
STOP	3:16:40.000	ENG CUM RPM	4818.	ENG. FALC MACH NO	.2488	COWL M/M*	.5402	K-DELTA	-.0553
				COWL LIP RECOV	.9467	ADDITIVE M/M*	.4317	K-A	.2505
				MACH AT COWL LIP	.1835				

SPIKE W1		COWL K3		STAT XCW/KC= 5.4830	
STAT XCW/KC=	.8449	STAT XCW/KC=	.0700	36 DEG MAKE	198 DEG MAKE
S2	.9292	S14	.9202	A36	.9555 A198
R1P1	.9952	K3P1	.9187	H36	.9665 B198
R1P2	1.0008	K3P2	.9191	C36	.9501 C198
R1P3	1.0018	R3P3	.9194	D36	.9374 D198
R1P4	1.0015	R3P4	.9191	E36	.9276 E198
R1P5	1.0018	K3P5	.9192	90 DEG MAKE	252 DEG MAKE
R1P6	1.0019	K3P6	.9194	A90	.9588 A252
R1P7	1.0019	K3P7	1.0010	H90	.9717 B252
R1P8	1.0010	K3P8	.9184	C90	.9526 C252
R1P9	.9975	K3P9	.9190	D90	.9324 D252
		K3P10	.9221	E90	.9228 E252
		K3P11	.9407	144 DEG MAKE	324 DEG MAKE
		K3P12	.9660	A144	.9614 A324
		K3P13	1.0016	B144	.9494 B324
		K3P14	1.0001	D144	.9213 C324
		K3P15	1.0022	C144	.9155 D324
		K3P16	1.0016	E144	.9096 E324

SPIKE K2		COWL K4		STATIC PRESSURES			
STAT XCW/KC=	2.2399	STAT XCW/KC=	1.5380	SPIKE		COWL	
S9	.8215	S20	.6074	TAP	XCW/KC	P/PU	IAP
R2P1	.9599	K4P1	.9653	S1	.6959	.9298	S14
K2P2	.9912	K4P2	.9847	S2	.8449	.9292	S15
K2P3	.9803	K4P3	.9655	S11	.8449	.9256	S16
K2P4	.9394	K4P4	.9878	S12	.8449	.9268	S17
K2P5	.8962	K4P5	.9843	S13	.8449	.9303	S18
		K4P6	.9901	S3	.9124	.9266	S19
		K4P7	.9935	S4	1.1784	.8888	S20
		K4P8	.9452	S5	1.4149	.8295	S21
		K4P9	.9967	S6	1.6614	.7571	S22
		K4P10	.9982	S7	1.7844	.7647	S23
		K4P11	.9989	S8	1.9219	.7709	S26
		K4P12	1.0003	S9	2.2844	.8215	
				S10	2.6204	.9238	
				S27	5.3000	.8866	
				S28	1.8144	1.0003	

SPIKE R6		COWL K5	
STAT XCW/KC=	3.5040	STAT XCW/KC=	3.3270
S23	.8733	S23	.8733
K6P1	.9122	K5P1	.8832
K6P2	.9178	K5P2	.8852
K6P3	.9220	K5P3	.8858
K6P4	.9260	K5P4	.8855
K6P5	.9305	K5P5	.8873
K6P8	.9603	K5P6	.8859
K6P9	.9808	K5P7	.8866
K6P10	.9878	K5P8	.8453
K6P11	.9880	K5P9	.9127
		K5P10	.9350
		K5P11	.9740

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	165	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.0853	AMBIENT TEMP	292.8 DEG K	MAX-MIN DIST	.0719
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9190 ATMUS	K-CIRCUMF.	.4232
START	3:14:30.003	INTERVAL	1.000	ENG. FACE RECOV	.9321	ENGINE M/M*	.9915	K-RADIAL	.2060
STOP	3:19: .000	ENG LUM RPM	5029.	ENG. FACE MACH NO	.5243	COWL M/M*	.5668	K-DELTA	-.0478
				COWL LIP RECOV	.9404	ADDITIVE M/M*	.4248	K-A	.2538
				MACH AT COWL LIP	.1942				

SPIKE #1		COWL #3		STAT XCW/RCE = 5.4830			
STAT XCW/RCE	.8457	STAT XCW/RCE	.0700	30 DEG MAKE	198 DEG MAKE		
S2	.9217	S14	.9103	A36	.9488	A198	.9486
R1P1	.9934	R3P1	.9095	M36	.9575	B198	.9491
R1P2	.9999	R3P2	.9044	C36	.9357	C198	.9425
R1P3	1.0011	R3P3	.9096	D36	.9210	D198	.9203
R1P4	1.0010	R3P4	.9097	E36	.9090	E198	.9071
R1P5	1.0010	R3P5	.9094	90 DEG MAKE	252 DEG MAKE		
R1P6	1.0011	R3P6	.9097	A90	.9442	A252	.9487
R1P7	1.0012	R3P7	1.0007	M90	.9630	B252	.9342
R1P8	1.0004	R3P8	.9092	C90	.9443	C252	.9290
R1P9	.9975	R3P9	.9091	D90	.9243	D252	.9226
		R3P10	.9133	E90	.9122	E252	.9164
		P3P11	.9330	144 DEG MAKE	324 DEG MAKE		
		R3P12	.9624	A144	.9560	A324	.9492
		R3P13	1.0013	M144	.9353	M324	.9553
		R3P14	.9994	D144	.9070	C324	.9354
		R3P15	1.0013	C144	.9015	D324	.9238
		R3P16	1.0013	E144	.8959	E324	.9197

SPIKE #2		COWL #4		STATIC PRESSURES					
STAT XCW/RCE	2.2407	STAT XCW/RCE	1.5380	SPIKE			COWL		
S9	.7930	S20	.5422	XLW/RC	P/P0	IAP	XLW/RC	P/P0	
R2P1	.9522	R4P1	.9604	S1	.6967	.9223	S14	.0340	.9103
R2P2	.9909	R4P2	.9619	S2	.8457	.9217	S15	.1860	.9069
R2P3	.9738	R4P3	.9638	S11	.8457	.9172	S16	.4150	.9084
R2P4	.9228	R4P4	.9653	S12	.8457	.9198	S17	.8470	.9376
R2P5	.8728	R4P5	.9674	S13	.8457	.9221	S18	1.1740	.8990
		R4P6	.9682	S3	.9137	.9184	S19	1.4590	.8163
		R4P7	.9607	S4	1.1797	.8748	S20	1.5400	.5422
		R4P8	.9423	S5	1.4157	.8074	S21	1.8270	.7249
		R4P9	.9943	S6	1.0627	.7147	S22	2.7840	.8227
		R4P10	.9463	S7	1.7407	.7247	S23	3.2980	.8514
		R4P11	.9485	S8	1.9227	.7321	S26	5.2490	.8620
		R4P12	.9494	S9	2.2857	.7430			
				S10	2.6217	.9091			
				S27	5.3000	.8885			
				S28	1.4157	.9998			

SPIKE #6		COWL #5	
STAT XCW/RCE	3.5040	STAT XCW/RCE	3.3270
S23	.8514	S23	.8514
R6P1	.8984	R5P1	.8040
R6P2	.9036	R5P2	.8051
R6P3	.9077	R5P3	.8002
R6P4	.9139	R5P4	.8003
R6P5	.9184	R5P5	.8072
R6P6	.9595	R5P6	.8061
R6P7	.9778	R5P7	.8070
R6P10	.9857	R5P8	.8770
R6P11	.9875	R5P9	.8463
		R5P10	.9215
		R5P11	.9633

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	187	FLIGHT DATE	09/20/79	SPIKE POS. DX/KC	.8569	AMBIENT TEMP	296.1 DEG K	MAX-MIN DIST	.0242
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9201 ATMOS	K-CIRCUMF.	.7473
START	4:29:15.000	INTERVAL	1.000	ENG. FACE RECUV	.9784	ENGINE M/M*	.4871	K-RADIAL	.0716
STOP	4:29:44.999	ENG LOK RPM	3754.	ENG. FACE MACH NO	.2139	COWL M/M*	.2331	K-DELTA	.0570
				COWL LIP RECUV	.9878	ADDITIVE M/M*	.2539	K-A	.1287
				MACH AT COWL LIP	.1340				

SPIKE K1		COWL K3		STAT XLM/KC= 5.4830			
STAT XCM/KC=	.0741	STAT XLM/KC=	.0700	30 DEG KAKE	198 DEG KAKE		
S2	.9848	S14	.9602	A36	.9751	A198	.9848
R1P1	1.0022	R3P1	.9653	H36	.9739	B198	.9848
R1P2	1.0022	R3P2	.9650	C36	.9680	C198	.9820
R1P3	1.0021	R3P3	.9654	D36	.9674	D198	.9731
R1P4	1.0018	R3P4	.9650	E36	.9660	E198	.9734
R1P5	1.0021	R3P5	.9651	90 DEG KAKE	252 DEG KAKE		
R1P6	1.0020	R3P6	.9651	A90	.9897	A252	.9840
R1P7	1.0021	R3P7	1.0010	H90	.9892	H252	.9807
R1P8	1.0017	R3P8	.9706	C90	.9815	C252	.9773
R1P9	1.0019	R3P9	.9835	D90	.9774	D252	.9764
		R3P10	.9974	E90	.9758	E252	.9750
		R3P11	1.0042	144 DEG KAKE	324 DEG KAKE		
		R3P12	1.0023	A144	.9864	A324	.9798
		R3P13	1.0053	H144	.9826	H324	.9793
		R3P14	1.0053	D144	.9801	D324	.9770
		R3P15	1.0053	C144	.9781	C324	.9767
		R3P16	1.0053	E144	.9762	E324	.9799

SPIKE K2		COWL K4		STATIC PRESSURES			
STAT XCM/KC=	1.4691	STAT XCM/KC=	1.5380	SPIKE		COWL	
S9	.9803	S20	.9760	XLM/KC	P/PO	XCM/KC	P/PO
R2P1	1.0005	R4P1	.9860	S1	.0749	S14	.0340
R2P2	.9967	R4P2	.9886	S2	.0741	S15	.1800
R2P3	.9965	R4P3	.9890	S11	.0741	S16	.4150
R2P4	.9910	R4P4	.9898	S12	.0741	S17	.8470
R2P5	.9940	R4P5	.9907	S13	.0741	S18	1.1740
		R4P6	.9896	S3	.1421	S19	1.4590
		R4P7	.9899	S4	.4081	S20	1.5400
		R4P8	.9903	S5	.6441	S21	1.8270
		R4P9	.9911	S6	.8911	S22	2.7840
		R4P10	.9911	S7	1.0191	S23	3.2980
		R4P11	.9913	S8	1.1511	S26	5.2890
		R4P12	.9921	S9	1.5141		
				S10	1.8501		
				S27	3.3000		
				S28	.6441	1.0011	

SPIKE K6		COWL K5	
STAT XCM/KC=	3.5040	STAT XCM/KC=	3.3270
S23	.9481	S23	.9481
R6P1	.9813	R5P1	.9647
R6P2	.9860	R5P2	.9667
R6P3	.9907	R5P3	.9665
R6P4	.9868	R5P4	.9668
R6P5	.9888	R5P5	.9682
R6P8	.9877	R5P6	.9717
R6P9	.9858	R5P7	.9780
R6P10	.9851	R5P8	.9847
R6P11	.9773	R5P9	.9843
		R5P10	.9920
		R5P11	.9926

YF-12 INLET NOISE SUPPRESSION STUDY
 RUN 169 FLIGHT DATE 09/20/79 SPIKE POS. OX/KC .8576 AMBIENT TEMP 296.1 DEG K
 FLIGHT NO. 0 BYPASS POS. OPEN AMBIENT PRESS .9192 ATMOS
 START 4:31:50.003 INTERVAL 1.000 ENG. FARE REC OV .9434 ENGINE M/M* .4973
 STOP 4:33:50.000 ENG COM RPM 4209. ENG. FARE MACH NO .1017 COWL M/M* .2760
 COWL LIP REC OV .9595 ADDITIVE M/M* .2213
 MACH AT COWL LIP .1042
 MAX-MIN DIST .1381
 K-CIRCUMP. 1.3004
 K-RADIAL .1372
 K-DELTA .6879
 K-A .6251

SPIKE R1		COWL K3		STAT XCW/MC= 5.4830	
STAT XCW/MC= .0734		STAT XCW/MC= .0700		30 DEG MAKE	198 DEG MAKE
S2	.9305	S14	.9527	A36	.9675
R1P1	.9487	K3P1	.9513	H36	.9632
R1P2	.9650	K3P2	.9513	C36	.9553
K1P3	.9660	K3P3	.9514	D36	.9554
K1P4	.9300	K3P4	.9508	E36	.9535
K1P5	.9900	K3P5	.9510	90 DEG MAKE	252 DEG MAKE
K1P6	.9858	K3P6	.9511	A90	.9661
K1P7	.9713	K3P7	.9653	B90	.9652
R1P8	.9615	K3P8	.9623	C90	.9784
R1P9	.9494	K3P9	.9827	D90	.9723
		K3P10	1.0013	E90	.9682
		R3P11	1.0050	144 DEG MAKE	324 DEG MAKE
		R3P12	1.0012	A144	.9790
		R3P13	1.0050	B144	.9735
		K3P14	1.0061	D144	.9695
		K3P15	1.0060	E144	.9670
		K3P16	1.0060	E144	.9644

SPIKE R2		COWL K4		STATIC PRESSURES					
STAT XCW/MC= 1.4044		STAT XCW/MC= 1.5340		TAP	XCW/MC	P/PO	TAP	COWL XCW/MC	P/PO
S9	.9526	S20	.9676	S1	.9756	.9960	S14	.0340	.9527
R2P1	.9815	K4P1	.9830	S2	.9734	.9305	S15	.1860	.9482
R2P2	.9730	K4P2	.9852	S11	.9734	.9781	S16	.4150	.9543
K2P3	.9169	K4P3	.9854	S12	.9734	.9790	S17	.8470	.9699
R2P4	.9480	K4P4	.9854	S13	.9734	.9787	S18	1.1740	.9731
K2P5	.9447	K4P5	.9862	S3	.9414	.9670	S19	1.4590	.9740
		K4P6	.9865	S4	.9474	.9517	S20	1.5400	.9676
		K4P7	.9871	S5	.9434	.9627	S21	1.8270	.9717
		K4P8	.9860	S6	.9404	.9701	S22	2.7440	.9114
		K4P9	.9866	S7	1.0184	.9716	S23	3.2480	.9274
		K4P10	.9848	S8	1.1504	.9728	S26	5.2490	.9263
		K4P11	.9897	S9	1.5134	.9526			
		K4P12	.9848	S10	1.8444	.9917			

SPIKE R6		COWL K5	
STAT XCW/MC= 3.5040		STAT XCW/MC= 3.3270	
S23	.9274	S23	.9274
K6P1	.9260	K5P1	.9465
K6P2	.9240	K5P2	.9523
K6P3	.9532	K5P3	.9529
K6P4	.9305	K5P4	.9533
K6P5	.9412	K5P5	.9561
K6P8	.9440	K5P6	.9601
K6P9	.9640	K5P7	.9703
K6P10	.9202	K5P8	.9811
K6P11	.9397	K5P9	.9858
		K5P10	.9844
		K5P11	.9918

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	149	FLIGHT DATE	09/20/79	SPIKE POS. DX/MC	.8570	AMBIENT TEMP	296.7 DEG K	MAX-MIN DIST	.0472
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9191 ATMOS	K-CIRCUMF.	.5944
START	4:33:50.000	INTERVAL	1.000	ENG. FACE RECOV	.9564	ENGINE M/M*	.5391	K-RADIAL	.1325
STOP	4:34:20.000	ENG CURR RPM	4667.	ENG. FACE MACH NO	.2444	COWL M/M*	.3155	K-DELTA	.0626
				COWL LIP RECOV	.9761	ADDITIVE M/M*	.2236	K-A	.1952
				MACH AT COWL LIP	.1854				

SPIKE R1		COWL R3		STAT XCW/MC= 5.4830			
STAT XCW/MC=	.0740	STAT XCW/MC=	.0700	36 DEG MAKE	198 DEG MAKE		
S2	.9717	S14	.9342	A36	.9543	A198	.9691
R1P1	1.0035	R3P1	.9338	M36	.9485	H198	.9666
R1P2	1.0035	R3P2	.9336	C36	.9441	C198	.9644
R1P3	1.0034	R3P3	.9337	D36	.9402	D198	.9447
R1P4	1.0033	R3P4	.9336	E36	.9355	E198	.9382
R1P5	1.0034	R3P5	.9340	90 DEG MAKE	252 DEG MAKE		
R1P6	1.0032	R3P6	.9334	A90	.9806	A252	.9714
R1P7	1.0033	R3P7	1.0034	H90	.9761	H252	.9634
R1P8	1.0034	R3P8	.9460	C90	.9699	C252	.9514
R1P9	1.0019	R3P9	.9737	D90	.9614	D252	.9451
		R3P10	.9481	E90	.9552	E252	.9399
		R3P11	1.0053	144 DEG MAKE	324 DEG MAKE		
		R3P12	1.0008	A144	.9697	A324	.9606
		R3P13	1.0054	H144	.9656	H324	.9637
		R3P14	1.0061	D144	.9545	D324	.9598
		R3P15	1.0057	C144	.9442	C324	.9541
		R3P16	1.0058	E144	.9439	E324	.9495

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/MC=	1.4690	STAT XCW/MC=	1.5380	SPIKE		COWL	
S9	.9635	S20	.9542	ACW/MC	P/PO	ACW/MC	P/PO
R2P1	.9879	R4P1	.9754	TAP		TAP	
R2P2	.9441	R4P2	.9756	S1	.9750	S14	.0340
R2P3	.9893	R4P3	.9776	S2	.9740	S15	.1860
R2P4	.9820	R4P4	.9781	S11	.9740	S16	.4150
R2P5	.9763	R4P5	.9781	S12	.9740	S17	.8470
		R4P6	.9800	S13	.9740	S18	1.1740
		R4P7	.9799	S3	.1420	S19	1.4590
		R4P8	.9811	S4	.4060	S20	1.5400
		R4P9	.9831	S5	.6440	S21	1.8270
		R4P10	.9828	S6	.8910	S22	2.7840
		R4P11	.9834	S7	1.0190	S23	3.2980
		R4P12	.9850	S8	1.1510	S26	5.2690
				S9	1.5140		
				S10	1.8500		
				S17	5.3000		
				S28	.6440	1.0023	

SPIKE R6		COWL R5	
STAT XCW/MC=	3.5040	STAT XCW/MC=	3.3270
S23	.8995	S23	.8995
R6P1	.9553	R5P1	.9224
R6P2	.9695	R5P2	.9323
R6P3	.9702	R5P3	.9367
R6P4	.9755	R5P4	.9330
R6P5	.9788	R5P5	.9360
R6P8	.9752	R5P6	.9417
R6P9	.9712	R5P7	.9564
R6P10	.9651	R5P8	.9695
R6P11	.9547	R5P9	.9782
		R5P10	.9832
		R5P11	.9863

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	190	FLIGHT DATE	09/20/79	SPIKE POS. DX/MC	.8582	AMBIENT TEMP	296.7 DEG K	MAX=MIN DIST	.0908
		FLIGHT NO.	0	HYPASS POS.	OPEN	AMBIENT PRESS	19207 ATMOS	K=CIRCUMF.	.5098
START	4:36:5.001	INTERVAL	1.000	ENG. FACE REC'D	.9425	ENGINE M/M*	.5583	K=RADIAL	.1024
STOP	4:36:135.000	ENG CLK RPM	5013.	ENG. FACE MACH NO	.3252	COWL M/M*	.3557	K=DELTA	.0313
				COWL LIP REC'D	.9689	ADDITIVE M/M*	.2026	K=A	.1337
				MACH AT COWL LIP	.2118				

SPIKE M1		COWL M3		STAT XCM/MC= 5.4830	
STAT XCM/MC=	.0728	STAT XCM/MC=	.0700	36 DEG RAKE	198 DEG RAKE
S2	.9622	S14	.9160	A36	.9471 A198
R1P1	1.0005	R3P1	.9141	B36	.9346 B198
R1P2	1.0011	M3P2	.9141	C36	.9307 C198
R1P3	1.0140	M3P3	.9151	D36	.9238 D198
R1P4	1.0011	M3P4	.9156	E36	.9225 E198
R1P5	1.0012	M3P5	.9164	90 DEG RAKE	252 DEG RAKE
R1P6	1.0006	M3P6	.9169	A90	.9733 A252
R1P7	1.0012	R3P7	1.0005	B90	.9680 B252
R1P8	1.0008	M3P8	.9380	C90	.9557 C252
R1P9	.9993	R3P9	.9779	D90	.9480 D252
		M3P10	1.0001	E90	.9404 E252
		M3P11	1.0031	144 DEG RAKE	324 DEG RAKE
		R3P12	.9995	A144	.9665 A324
		R3P13	1.0039	B144	.9595 B324
		M3P14	1.0033	D144	.9438 D324
		M3P15	1.0035	C144	.9365 C324
		M3P16	1.0036	E144	.9268 E324

SPIKE M2		COWL M4		STATIC PRESSURES					
STAT XCM/MC=	1.4678	STAT XCM/MC=	1.5380	TAP	SPIKE	P/PO	IAP	COWL	P/PO
S9	.9517	S20	.9409	S1	.0762	.0000	S14	.0340	.9160
R2P1	.9818	M4P1	.9651	S2	.0728	.9622	S15	.1860	.9123
R2P2	.9923	M4P2	.9679	S11	.0728	.9608	S16	.4150	.9225
R2P3	.9885	M4P3	.9715	S12	.0728	.0000	S17	.8470	.9472
R2P4	.9744	M4P4	.9712	S13	.0728	.9623	S18	1.1740	.9533
R2P5	.9682	M4P5	.9725	S5	.1408	.9421	S19	1.4590	.9539
		M4P6	.9755	S4	.4068	.9180	S20	1.5400	.9409
		M4P7	.9748	S5	.6428	.9363	S21	1.8270	.9512
		M4P8	.9758	S6	.8898	.9475	S22	2.7840	.9476
		M4P9	.9767	S7	1.0170	.9506	S23	3.2980	.9737
		M4P10	.9762	S8	1.1498	.9499	S26	5.2890	.9712
		M4P11	.9791	S9	1.5128	.9517			
		M4P12	.9786	S10	1.8488	.9644			

SPIKE M6		COWL M5	
STAT XCM/MC=	3.5040	STAT XCM/MC=	3.3270
S23	.8737	S23	.8737
R6P1	.9443	M5P1	.9142
R6P2	.9609	M5P2	.9181
M6P3	.9641	M5P3	.9156
M6P4	.8943	M5P4	.9185
M6P5	.9692	M5P5	.9246
M6P8	.9742	M5P6	.9272
M6P9	.9643	M5P7	.9444
M6P10	.9574	M5P8	.9641
M6P11	.9404	M5P9	.9729
		M5P10	.9778
		M5P11	.9795

YF-12 INLET NOISE SUPPRESSION STUDY

KUN	191	FLIGHT DATE	09/20/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	296.7 DEG K	MAX=MIN DIST	.0665
START	4:37:45.000	FLIGHT NO.	0	BYPASS POS. OPEN		AMBIENT PRESS	.9216 ATMOS	K=CIRCUMF.	.5103
STOP	4:38:15.000	INTERVAL	1.000	ENG. FARE RECOV	.9342	ENGINE M/M*	.5862	K=RADIAL	.1518
		ENG LOK MPH	5379.	ENG. FACE MACH NO	.3569	COWL M/M*	.3703	K=DELTA	.0874
				COWL LIP RECOV	.9616	ADDITIVE M/M*	.2159	K=A	.2392
				MACH AT COWL LIP	.2228				

SPIKE R1		COWL N3		STAT XCW/KC= 5.4830	
STAT XCW/KC=	.0728	STAT XCW/KC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9552	S14	.9028	A36	.9313
R1P1	.9992	R3P1	.9018	B36	.9215
R1P2	.9998	R3P2	.9019	C36	.9156
R1P3	1.0000	R3P3	.9010	D36	.9113
R1P4	.9998	R3P4	.9014	E36	.9005
R1P5	.9979	R3P5	.9016	90 DEG HAKE	252 DEG HAKE
R1P6	.9996	R3P6	.9016	A90	.9686
R1P7	1.0001	R3P7	.9999	H90	.9613
R1P8	1.0001	R3P8	.9243	C90	.9446
R1P9	.9964	R3P9	.9687	D90	.9347
		R3P10	.9979	E90	.9295
		R3P11	1.0015	144 DEG HAKE	324 DEG HAKE
		R3P12	.9965	A144	.9608
		R3P13	1.0028	B144	.9525
		R3P14	1.0026	D144	.9310
		R3P15	1.0029	C144	.9261
		R3P16	1.0027	E144	.9213

SPIKE R2		COWL N4		STATIC PRESSURES			
STAT XCW/KC=	1.4678	STAT XCW/KC=	1.5380	SPIKE		COWL	
S9	.9438	S20	.9303	XCW/KC	P/PO	IAP	P/PO
R2P1	.9778	R4P1	.9584	TAP		S14	.0340
R2P2	.9900	R4P2	.9608	S1	.0762	S15	.1860
R2P3	.9833	R4P3	.9605	S2	.0728	S16	.4150
R2P4	.9708	R4P4	.9606	S11	.0728	S17	.8470
R2P5	.9637	R4P5	.9606	S12	.0728	S18	1.1740
		R4P6	.9655	S13	.0728	S19	1.4590
		R4P7	.9674	S3	.1408	S20	1.5400
		R4P8	.9691	S4	.4008	S21	1.8270
		R4P9	.9691	S5	.0428	S22	2.7840
		R4P10	.9712	S6	.0898	S23	3.2980
		R4P11	.9737	S7	1.0178	S26	5.2890
		R4P12	.9753	S8	1.1498		
				S9	1.5128		
				S10	1.8488		
				S27	5.3000		
				S28	.6428		

SPIKE R6		COWL N5	
STAT XCW/KC=	3.5040	STAT XCW/KC=	3.3270
S23	.8502	S23	.8502
R6P1	.9330	R5P1	.8964
R6P2	.9522	R5P2	.9014
R6P3	.9585	R5P3	.9030
R6P4	.9640	R5P4	.9072
R6P5	.9678	R5P5	.9120
R6P8	.9648	R5P6	.9207
R6P9	.9554	R5P7	.9377
R6P10	.9432	R5P8	.9530
R6P11	.9264	R5P9	.9695
		R5P10	.9709
		R5P11	.9692

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	192	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	297.2 DEG K	MAX-MIN DIST	.0767
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9139 ATMOS	K-CIRCUMF.	.4917
START	4:40:40.002	INTERVAL	1.000	ENG. FALC RECOV	.9344	ENGINE M/M ₀	.6085	K-RADIAL	.1457
STOP	4:41: 9.998	ENG CUM RPM	5601.	ENG. FALC MACH NO	.3855	CUWL M/M ₀	.3929	K-DELTA	.1014
				CUWL LIP RECOV	.9663	ADDITIVE M/M ₀	.2155	K-A	.2472
				MACH AT CUWL LIP	.2362				

SPIKE R1		CUWL M3		STAT XCW/RC= 5.4830			
STAT XCW/RC=	.0728	STAT XCW/RC=	.0700	36 DEG	MAKE	198 DEG	MAKE
S2	.9592	S14	.8998	A36	.9344	A198	.9552
R1P1	1.0077	R3P1	.8977	B36	.9213	B198	.9541
R1P2	1.0056	R3P2	.8974	C36	.9121	C198	.9486
R1P3	1.0081	R3P3	.8974	D36	.9087	D198	.9169
R1P4	1.0069	R3P4	.8969	E36	.9018	E198	.9046
R1P5	1.0076	R3P5	.8972	90 DEG	MAKE	252 DEG	MAKE
R1P6	1.0059	R3P6	.8969	A90	.9735	A252	.9400
R1P7	1.0081	R3P7	1.0083	H90	.9672	H252	.9333
R1P8	1.0061	R3P8	.9339	C90	.9446	C252	.9208
R1P9	1.0065	R3P9	.9854	D90	.9382	D252	.9165
		R3P10	1.0085	E90	.9294	E252	.9101
		R3P11	1.0103	144 DEG	MAKE	324 DEG	MAKE
		R3P12	1.0042	A144	.9639	A324	.9376
		R3P13	1.0110	H144	.9563	H324	.9471
		R3P14	1.0104	D144	.9336	D324	.9462
		R3P15	1.0104	C144	.9294	C324	.9352
		R3P16	1.0104	E144	.9252	E324	.9217

SPIKE R2		CUWL M4		STATIC PRESSURES					
STAT XCW/RC=	1.4678	STAT XCW/RC=	1.5340	SPIKE		CUWL			
S9	.9458	S20	.9289	XCW/RC	P/PO	TAP	XCW/RC	P/PO	
R2P1	.9833	R4P1	.9541	S1	.9762	.4942	S14	.0340	.8998
R2P2	.9948	R4P2	.9639	S2	.9728	.9542	S15	.1860	.8934
R2P3	.9857	R4P3	.9664	S11	.9728	.9576	S16	.4150	.9081
R2P4	.9763	R4P4	.9694	S12	.9728	.9574	S17	.8470	.9399
R2P5	.9671	R4P5	.9643	S13	.9728	.9584	S18	1.1740	.9477
		R4P6	.9701	S3	.1408	.9328	S19	1.4590	.9477
		R4P7	.9706	S4	.4068	.9002	S20	1.5400	.9289
		R4P8	.9712	S5	.6428	.9245	S21	1.8270	.9437
		R4P9	.9736	S6	.8848	.9344	S22	2.7840	.8127
		R4P10	.9749	S7	1.0178	.9439	S23	3.2980	.8380
		R4P11	.9760	S8	1.1448	.9447	S26	5.2890	.8399
		R4P12	.9770	S9	1.5128	.9458			
				S10	1.8488	.9813			
				S27	5.3000	.8449			
				S28	.6428	1.0075			

SPIKE R6		CUWL M5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.8380	S23	.8380
R6P1	.9245	R5P1	.8922
R6P2	.9464	R5P2	.8921
R6P3	.9583	R5P3	.8963
R6P4	.9647	R5P4	.9023
R6P5	.9708	R5P5	.9055
R6P6	.9698	R5P6	.9192
R6P7	.9636	R5P7	.9349
R6P10	.9552	R5P8	.9604
R6P11	.9313	R5P9	.9688
		R5P10	.9750
		R5P11	.9767

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	193	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	297.2 DEG K	MAX-MIN DIST	.0865
		FLIGHT NO.	0	BYPASS POS. UPEN		AMBIENT PRESS	.9212 ATMOS	K-CIRCUMF.	.4354
START	4:42:50.003	INTERVAL	1.000	ENG. FACE RECOV	.9218	ENGINE M/M*	.6330	K-RADIAL	.1470
STOP	4:43:19.998	ENG CLK RPM	5863.	ENG. FACE MACH NO	.3497	CUWL M/M*	.4025	K-DELTA	.0880
				CUWL LIP RECOV	.9555	ADDITIVE M/M*	.2305	K=A	.2349
				MACH AT CUWL LIP	.2453				

SPIKE K1		CUWL K3		STAT XCW/RCE = 5.4830	
STAT XCW/RCE = .0728	STAT XCW/RCE = .0700	36 DEG HAKE	198 DEG HAKE		
S2 .9480	S14 .8846	A36 .4198	A198 .9416		
R1P1 .9986	K3P1 .8833	H36 .4061	B198 .9389		
R1P2 .9997	K3P2 .8825	C36 .8488	C198 .9365		
R1P3 .9994	K3P3 .8830	D36 .8946	D198 .9031		
R1P4 .9999	K3P4 .8826	E36 .8889	E198 .8831		
R1P5 .9995	K3P5 .8827	90 DEG HAKE	252 DEG HAKE		
K1P6 .9999	K3P6 .8832	A90 .4628	A252 .9336		
K1P7 1.0000	K3P7 .9993	H90 .9555	H252 .9258		
R1P8 1.0000	K3P8 .9218	C90 .4367	C252 .9138		
R1P9 .9982	K3P9 .9743	D90 .9226	D252 .9052		
	K3P10 .9994	E90 .9119	E252 .8987		
	K3P11 1.0021	144 DEG HAKE	324 DEG HAKE		
	K3P12 .9955	A144 .9576	A324 .9268		
	K3P13 1.0028	H144 .4470	B324 .9357		
	K3P14 1.0024	D144 .9204	C324 .9310		
	K3P15 1.0027	C144 .9156	E324 .9229		
	K3P16 1.0024	E144 .9107	E324 .9093		

SPIKE K2		CUWL K4		STATIC PRESSURES			
STAT XCW/RCE = 1.4678	STAT XCW/RCE = 1.5380			SPIKE		CUWL	
S9 .9339	S20 .9160	TAP	XCW/RCL	P/PO	IAP	XCW/RCL	P/PO
R2P1 .9749	R4P1 .9499	S1 .0762	.4851	S14	.0340	.8846	
R2P2 .9881	R4P2 .9543	S2 .0728	.4480	S15	.1860	.8791	
R2P3 .9789	R4P3 .9567	S11 .0728	.4466	S16	.4150	.8939	
R2P4 .9654	R4P4 .9578	S12 .0728	.4473	S17	.8470	.9275	
R2P5 .9563	R4P5 .9594	S13 .0728	.4475	S18	1.1740	.9357	
	R4P6 .9601	S3 .1408	.9208	S19	1.4590	.9358	
	R4P7 .9622	S4 .4068	.8873	S20	1.5400	.9160	
	R4P8 .9636	S5 .0428	.9122	S21	1.8270	.9322	
	R4P9 .9658	S6 .8898	.9279	S22	2.7840	.7952	
	R4P10 .9678	S7 1.0178	.9319	S23	3.2980	.8191	
	R4P11 .9676	S8 1.1498	.9334	S26	5.2890	.8215	
	R4P12 .9695	S9 1.5128	.9339				
		S10 1.8488	.9710				
		S27 5.3000	.8279				
		S28 .6428	.9992				

SPIKE K6		CUWL K5	
STAT XCW/RCE = 3.5040	STAT XCW/RCE = 3.3270		
S23 .8191	S23 .8191		
R6P1 .9213	R5P1 .8804		
R6P2 .9470	R5P2 .8837		
R6P3 .9508	R5P3 .8876		
R6P4 .9599	R5P4 .8894		
R6P5 .9647	R5P5 .8964		
R6P8 .9579	R5P6 .9053		
R6P9 .9503	R5P7 .9257		
R6P10 .9384	R5P8 .9467		
R6P11 .9137	R5P9 .9603		
	R5P10 .9669		
	R5P11 .9648		

VF-12 INLET NOISE SUPPRESSION STUDY

RUN	194	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.8407	AMBIENT TEMP	298.9 DEG K	MAX-MIN DIST	.0927
START	4:44:50.000	FLIGHT NU.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9212 ATMOS	K=CIRCUMF.	.4031
STOP	4:45:19.997	INTERVAL	1.000	ENG. FACE RECOV	.9143	ENGINE M/M*	.6632	K=RADIAL	.1416
		ENG COM RPM	6100.	ENG. FACE MACH NO	.4311	COWL M/M*	.4179	K=DELTA	.0954
				COWL LIP RECOV	.9501	ADDITIVE M/M*	.2453	K=A	.2370
				MACH AT COWL LIP	.2570				

SPIKE R1		COWL W3		STAT XCM/RC= 5.4850	
STAT XCM/RC=	.0903	STAT XCM/RC=	.0700	36 DEG TAKE	198 DEG TAKE
S2	.9422	S14	.8726	A36	.9088
R1P1	.9991	R3P1	.8702	H36	.8481
R1P2	.9944	R3P2	.8701	C36	.8887
R1P3	.9971	R3P3	.8705	D36	.8855
R1P4	.9967	R3P4	.8705	E36	.8782
R1P5	.9998	R3P5	.8703	90 DEG TAKE	252 DEG TAKE
R1P6	.9994	R3P6	.8706	A90	.9586
R1P7	1.0001	R3P7	.9937	B90	.9514
R1P8	.9996	R3P8	.9060	C90	.9291
R1P9	.9982	R3P9	.9655	D90	.9155
		R3P10	.9964	E90	.9054
		R3P11	1.0027	144 DEG TAKE	324 DEG TAKE
		R3P12	.9948	A144	.9467
		R3P13	1.0038	B144	.9360
		R3P14	1.0041	D144	.9136
		R3P15	1.0044	C144	.9116
		R3P16	1.0041	E144	.9096

SPIKE R2		COWL W4		STATIC PRESSURES			
STAT XCM/RC=	1.4853	STAT XCM/RC=	1.5380	SPIKE			COWL
S9	.9262	S20	.9061	XCM/RC	P/P0	IAP	XCM/RC
R2P1	.9716	H4P1	.9468	S1	.0587	.9838	S14
R2P2	.9848	H4P2	.9497	S2	.0903	.9422	S15
R2P3	.9762	H4P3	.9524	S11	.0903	.9408	S16
R2P4	.9628	H4P4	.9526	S12	.0903	.9405	S17
R2P5	.9519	H4P5	.9555	S13	.0903	.9426	S18
		H4P6	.9557	S3	.1583	.9137	S19
		H4P7	.9578	S4	.4243	.8741	S20
		H4P8	.9585	S5	.6603	.9030	S21
		H4P9	.9606	S6	.9073	.9206	S22
		H4P10	.9631	S7	1.0353	.9247	S23
		H4P11	.9654	S8	1.1673	.9267	S26
		H4P12	.9652	S9	1.3303	.9262	
				S10	1.8663	.9679	
				S27	3.3000	.8078	
				S28	.6603	.9987	

SPIKE W6		COWL W5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.7981	S23	.7981
R6P1	.9092	R5P1	.8663
R6P2	.9384	R5P2	.8659
R6P3	.9457	R5P3	.8775
R6P4	.9532	R5P4	.8794
R6P5	.9591	R5P5	.8855
R6P6	.9519	R5P6	.8970
R6P9	.9440	R5P7	.9173
R6P10	.9253	R5P8	.9409
R6P11	.8960	R5P9	.9500
		R5P10	.9565
		R5P11	.9598

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	196	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	298.9 DEG K	MAX-MIN DIST	.1164
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9211 ATMOS	K=CIRCUMF.	.3328
START	4:48:43.000	INTERVAL	1.000	ENG. FACE RECOV	.9016	ENGINE M/M*	.7177	K=RADIAL	.1496
STOP	4:48:58.664	ENG CUR RPM	6434.	ENG. FACE MACH NO	.4741	COWL M/M*	.4010		
				COWL LIP RECOV	.9342	ADDITIVE M/M*	.3166	K=DELTA	.0838
				MACH AT COWL LIP	.2503			K=A	.2333

SPIKE R1		COWL R3		STAT XCW/RC= 5.4850			
STAT XCW/RC=	.0728	STAT XCW/RC=	.0700	36 DEG RAKE	198 DEG RAKE		
S2	.9353	S14	.8534	A36	.8482	A198	.9294
R1P1	.0000	R3P1	.8524	H36	.8826	H198	.9235
R1P2	1.0000	R3P2	.8521	C36	.8715	C198	.9191
R1P3	1.0004	K3P3	.8519	D36	.8670	D198	.8805
R1P4	1.0003	R3P4	.8508	E36	.8640	E198	.8519
R1P5	.9925	K3P5	.8513	90 DEG RAKE	252 DEG RAKE		
R1P6	1.0000	R3P6	.8513	A90	.9508	A252	.9279
R1P7	1.0001	K3P7	1.0002	H90	.9417	H252	.9112
R1P8	.9996	R3P8	.8926	C90	.9124	C252	.8882
R1P9	.9971	K3P9	.9614	D90	.8480	D252	.8743
		R3P10	.9983	E90	.8631	E252	.8756
		R3P11	1.0020	144 DEG RAKE	324 DEG RAKE		
		K3P12	.9931	A144	.9477	A324	.9097
		R3P13	1.0021	H144	.9364	H324	.9186
		K3P14	1.0021	D144	.9034	D324	.9062
		R3P15	1.0021	E144	.8445	E324	.9000
		K3P16	.0000		.8856		.8835

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/RC=	1.4678	STAT XCW/RC=	1.5340	SPIKE		COWL	
S9	.9160	S20	.8950	XCW/RC	P/P0	IAP	P/P0
R2P1	.9689	K4P1	.9409	S1	.0762	S14	.0340
R2P2	.9842	K4P2	.9442	S2	.0726	S15	.1860
R2P3	.9770	K4P3	.9431	S11	.0726	S16	.4150
R2P4	.9576	K4P4	.9469	S12	.0728	S17	.8470
R2P5	.9446	K4P5	.9476	S13	.0726	S18	1.1740
		R4P6	.9442	S3	.1408	S19	1.4590
		K4P7	.9514	S4	.4068	S20	1.5400
		R4P8	.9500	S5	.6428	S21	1.8270
		K4P9	.9523	S6	.8848	S22	2.7840
		R4P10	.9563	S7	1.00178	S23	3.2980
		K4P11	.9573	S8	1.1448	S26	5.2890
		R4P12	.9571	S9	1.3128		.7671
				S10	1.8488		
				S27	5.3000		
				S28	.6428		

SPIKE R6		COWL R5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.7644	S23	.7644
R6P1	.8923	R5P1	.8428
R6P2	.9232	K5P2	.8487
R6P3	.9348	R5P3	.8598
K6P4	.9440	K5P4	.8600
K6P5	.9496	K5P5	.8706
R6P8	.9474	K5P6	.8837
R6P9	.9378	K5P7	.9159
K6P10	.9144	K5P8	.9260
K6P11	.8829	K5P9	.9389
		K5P10	.9516
		K5P11	.9531

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	197	FLIGHT DATE	09/20/79	SPIKE POS. DX/MC	.8530	AMBIENT TEMP	298.9 DEG K	MAX-MIN DIST	.1160
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9210 ATMOS	K-CIRCUMF.	.3051
START	4:50:55.002	INTERVAL	1.000	ENG. FACE RECOV	.8469	ENGINE M/M*	.7365	K-RADIAL	.1478
STOP	4:55:50.000	ENG LUM RPM	6597.	ENG. FACE MACH NO	.4862	COWL M/M*	.4629		
				COWL LIP RECOV	.9354	ADDITIVE M/M*	.2735	K-DELTA	.0737
				MACH AT COWL LIP	.2425			K-A	.2215

SPIKE R1		COWL K3		STAT XCW/RCE = 5.4830		
STAT XCW/RCE =	.0780	STAT XCW/RCE =	.0700	36 DEG MAKE	198 DEG MAKE	
S2	.9146	S14	.8483	A36	.9014 A198	.9286
K1P1	.9992	K3P1	.8480	H36	.8782 H198	.9220
K1P2	.9999	K3P2	.8485	C36	.8694 C198	.9180
K1P3	.9935	K3P3	.8463	D36	.8635 D198	.8700
K1P4	.9993	K3P4	.8476	E36	.8460 E198	.8490
K1P5	1.0000	K3P5	.8470	90 DEG MAKE	252 DEG MAKE	
K1P6	1.0000	K3P6	.8466	A90	.9500 A252	.9158
K1P7	1.0001	K3P7	.9993	H90	.9401 H252	.9008
K1P8	.0000	K3P8	.8915	C90	.9112 C252	.8848
K1P9	.9969	K3P9	.9691	D90	.8453 D252	.8729
		K3P10	1.0005	E90	.8804 E252	.8632
		K3P11	1.0017	144 DEG MAKE	324 DEG MAKE	
		K3P12	.9944	A144	.9446 A324	.9121
		K3P13	1.0031	B144	.9272 B324	.9164
		K3P14	1.0022	D144	.8454 D324	.9079
		K3P15	1.0024	C144	.8686 C324	.8920
		K3P16	1.0027	E144	.8812 E324	.8794

SPIKE R2		COWL K4		STATIC PRESSURES					
STAT XCW/RCE =	1.4736	STAT XCW/RCE =	1.5380	SPIKE		COWL			
S9	.9128	S20	.8880	TAP	XCW/RCE	P/PU	TAP	XCW/RCE	P/PU
K2P1	.9695	K4P1	.9335	S1	.9710	.9814	S14	.8340	.8483
K2P2	.9840	K4P2	.9400	S2	.9780	.9146	S15	.1860	.8437
K2P3	.9732	K4P3	.9368	S11	.9780	.9179	S16	.4150	.8625
K2P4	.9545	K4P4	.9438	S12	.9780	.9318	S17	.8470	.9042
K2P5	.9442	K4P5	.9475	S13	.9780	.9326	S18	1.1740	.9160
		K4P6	.9488	S3	.1460	.8908	S19	1.4590	.9171
		K4P7	.9442	S4	.4120	.8526	S20	1.5400	.8886
		K4P8	.9504	S5	.6480	.8855	S21	1.8270	.9110
		K4P9	.9507	S6	.8450	.9065	S22	2.7840	.7341
		K4P10	.9527	S7	1.0230	.9106	S23	3.2980	.7552
		K4P11	.9574	S8	1.1550	.9135	S26	5.2890	.7559
		K4P12	.9608	S9	1.3180	.9128			

SPIKE R6		COWL K5	
STAT XCW/RCE =	3.5040	STAT XCW/RCE =	3.3270
S23	.7552	S23	.7552
K6P1	.8874	K5P1	.8384
K6P2	.9124	K5P2	.8437
K6P3	.9254	K5P3	.8470
K6P4	.9421	K5P4	.8523
K6P5	.9504	K5P5	.8545
K6P6	.9541	K5P6	.8763
K6P9	.9334	K5P7	.9044
K6P10	.9174	K5P8	.9284
K6P11	.8855	K5P9	.9510
		K5P10	.9534
		K5P11	.9547

YF-12 INLET NOISE SUPPRESSION STUDY

HUN	200	FLIGHT DATE 09/20/79	SPIKE POS. DX/MC	.4599	AMBIENT TEMP	300.0 DEG K	MAX-MIN DIST	.0621
		FLIGHT NO. 0	BYPASS POS.	OPEN	AMBIENT PRESS	.9211 ATMUS	K-CIRCUMF.	.6344
START	5: 5120.001	INTERVAL 1.000	ENG. FACE REC'D	.9573	ENGINE M/M*	.6690	K-RADIAL	.1759
STOP	5: 5145.437	ENG CLK RPM 4678.	ENG. FACE MACH NO	.2948	COWL M/M*	.3309	K-DELTA	.1082
			COWL LIP REC'D	.9782	ADDITIVE M/M*	.3381	K-A	.2762
			MACH AT COWL LIP	.1552				

SPIKE R1		COWL R3		STAT XLM/MC= 5.4650	
STAT XCM/RC=	.4711	STAT XCM/RC=	.0700	36 DEG	RAKE
S2	.9632	S14	.9605	A36	.9582
R1P1	1.0010	R3P1	.9597	M36	.9528
R1P2	1.0010	R3P2	.9596	C36	.9424
R1P3	1.0011	R3P3	.9594	D36	.9374
R1P4	1.0010	R3P4	.9593	E36	.9307
R1P5	1.0096	R3P5	.9594	90 DEG RAKE	
R1P6	1.0121	R3P6	.9602	A90	.9402
R1P7	1.0128	R3P7	1.0011	M90	.9845
R1P8	1.0010	R3P8	.9618	C90	.9608
R1P9	.9973	R3P9	.9715	D90	.9560
		R3P10	.9893	E90	.9503
		R3P11	1.0040	144 DEG RAKE	
		R3P12	1.0010	A144	.9808
		R3P13	1.0051	M144	.9742
		R3P14	1.0045	C144	.9582
		R3P15	1.0056	D144	.9531
		R3P16	1.0050	E144	.9480
				A324	.9604
				M324	.9620
				C324	.9602
				D324	.9557
				E324	.9480

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCM/RC=	1.0661	STAT XCM/RC=	1.5380	SPIKE		COWL	
S9	.9628	S20	.9379	XCM/MC	P/PU	TAP	XCM/MC
R2P1	.9910	R4P1	.9906	S1	.3221	S14	.0340
R2P2	.9975	R4P2	.9950	S2	.4711	S15	.1860
R2P3	.9940	R4P3	.9954	S11	.4711	S16	.4150
R2P4	.9920	R4P4	1.0007	S12	.4711	S17	.8470
R2P5	.9836	R4P5	.9932	S13	.4711	S18	1.1740
		R4P6	.9955	S5	.5391	S19	1.4590
		R4P7	.9969	S4	.6051	S20	1.5400
		R4P8	.9975	S5	1.0411	S21	1.8270
		R4P9	.9976	S6	1.2881	S22	2.7840
		R4P10	.9986	S7	1.4161	S23	3.2980
		R4P11	.9990	S8	1.5481	S26	5.2890
		R4P12	.9992	S9	1.9111		.9605
				S10	2.2471		.9545
				S27	5.3000		.9637
				S28	1.0411		.9734
							.9701
							.9654
							.9379
							.9609
							.8858
							.8995
							.8987

SPIKE R6		COWL R5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.8995	S23	.8995
R6P1	.9372	R5P1	.9283
R6P2	.9497	R5P2	.9292
R6P3	.9533	R5P3	.9331
R6P4	.9576	R5P4	.9325
R6P5	.9747	R5P5	.9306
R6P8	.9834	R5P6	.9424
R6P9	.9817	R5P7	.9606
R6P10	.9718	R5P8	.9751
R6P11	.9544	R5P9	.9847
		R5P10	.9950
		R5P11	.9950

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	201	FLIGHT DATE	09/20/79	SPIKE POS. DX/MC	.4502	AMBIENT TEMP	300.0 DEG K	MAX-MIN DIST	.0778
		FLIGHT NO.	0	HYPASS POS.	OPEN	AMBIENT PRESS	.9210 ATMOS	K-CIRCUMF.	.5993
START	51 71 .000	INTERVAL	1.000	ENG. FACE REC'D	.9467	ENGINE M/M*	.6925	K-RADIAL	.2037
STOP	51 7130.000	ENG CON MPH	5000.	ENG. FACE MACH NO	.3266	COWL M/M*	.3455	K-DELTA	.1146
				COWL LIP REC'D	.9707	ADDITIVE M/M*	.3470	K-A	.3183
				MACH AT COWL LIP	.1636				

SPIKE R1		COWL M3		STAT XLW/MC= 5.4830	
STAT	XCW/MC= .4808	STAT	XCW/MC= .0700	36 DEG	WAKE
S2	.9540	S14	.9515	A36	.4511 A198 .9700
R1P1	1.0011	R3P1	.9505	R36	.4423 B198 .9623
R1P2	1.0008	R3P2	.9502	C36	.4287 C148 .9549
R1P3	.9988	R3P3	.9501	D36	.9140 U198 .9285
R1P4	1.0006	R3P4	.9502	E36	.4143 E198 .9200
R1P5	1.0014	R3P5	.9505	90 DEG	WAKE
R1P6	.9980	R3P6	.9502	A90	.9874 A252 .9669
R1P7	1.0020	R3P7	.9986	B90	.9774 B252 .9503
R1P8	1.0014	R3P8	.9507	C40	.4567 C252 .9367
R1P9	.9947	R3P9	.9600	D90	.9462 U252 .9270
		R3P10	.4742	E90	.9364 E252 .9177
		R3P11	1.0007	144 DEG	WAKE
		R3P12	.9995	A144	.4725 A324 .9511
		R3P13	1.0045	B144	.4607 B324 .9550
		R3P14	1.0046	D144	.4523 C324 .9519
		R3P15	1.0045	C144	.4437 U324 .9451
		R3P16	1.0045	E144	.4350 E324 .9338

SPIKE R2		COWL M4		STATIC PRESSURES			
STAT	XCW/MC= 1.0758	STAT	XCW/MC= 1.5380	SPIKE		COWL	
S9	.9533	S20	.4252	XCW/MC	P/PO	IAP	P/PO
R2P1	.9853	R4P1	.4868	S1	.3318	S14	.0340 .9515
R2P2	.9968	R4P2	.9916	S2	.4808	S15	.1860 .9461
R2P3	.9871	R4P3	.9927	S11	.4808	S16	.4150 .9557
R2P4	.9935	R4P4	.9930	S12	.4808	S17	.8470 .9672
R2P5	.9787	R4P5	.9930	S13	.4808	S18	1.1740 .9639
		R4P6	.9943	S3	.5468	S19	1.4590 .9580
		R4P7	.9950	S4	.8148	S20	1.5400 .9252
		R4P8	.9956	S5	1.0508	S21	1.8270 .9528
		R4P9	.9956	S6	1.2978	S22	2.7840 .8460
		R4P10	.9966	S7	1.4258	S23	3.2980 .8761
		R4P11	.9975	S8	1.5578	S26	5.2890 .8738
		R4P12	.9975	S9	1.4208		
				S10	2.2568		
				S27	5.3060		
				S28	1.0508	1.0001	

SPIKE M6		COWL M5	
STAT	XCW/MC= 3.5040	STAT	XCW/MC= 3.3270
S23	.8761	S23	.8761
R6P1	.9232	M5P1	.9088
R6P2	.9368	M5P2	.9137
R6P3	.9412	M5P3	.9127
R6P4	.9487	M5P4	.9114
R6P5	.9536	M5P5	.9146
R6P8	.9780	M5P6	.9309
R6P9	.9774	M5P7	.9455
R6P10	.9671	M5P8	.9732
R6P11	.9446	M5P9	.9848
		M5P10	.9918
		M5P11	.9931

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	202	FLIGHT DATE	09/20/79	SPIKE POS. DX/KC	.4545	AMBIENT TEMP	300.0 DEG K	MAX-MIN DIST	.1056
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9213 ATMOS	K=CIRCUMF.	.5012
START	5: 8:45.000	INTERVAL	1.000	ENG. FALC RECOV	.9301	ENGINE M/M*	.7490	K=RADIAL	.2227
STOP	5: 9:15.000	ENG CON RPM	5601.	ENG. FALC MACH NO	.3959	COWL M/M*	.4400	K=DELTA	.1069
				COWL LIP RECOV	.9660	ADDITIVE M/M*	.3090	K=A	.3296
				MACH AT COWL LIP	.2115				

SPIKE R1		COWL R3		STAT XCW/RC# 5.4830			
STAT XCW/RC#	.4765	STAT XCW/RC#	.0700	36 DEG RAKE	198 DEG RAKE		
S2	.9375	S14	.9352	A36	.9325	A198	.9574
R1P1	1.0019	R3P1	.9300	H36	.9191	H198	.9494
R1P2	1.0001	R3P2	.9354	C36	.9086	C198	.9353
R1P3	1.0019	R3P3	.9354	D36	.8935	D198	.9091
R1P4	1.0005	R3P4	.9346	E36	.8860	E198	.8887
R1P5	1.0506	R3P5	1.0003	90 DEG RAKE	252 DEG RAKE		
R1P6	1.0010	R3P6	.9352	A90	.9842	A252	.9581
R1P7	1.0017	R3P7	1.0001	H90	.9687	H252	.9301
R1P8	1.0008	R3P8	.9372	C90	.9431	C252	.9259
R1P9	.9954	R3P9	.9469	D90	.9252	D252	.9115
		R3P10	.9723	E90	.9164	E252	.9029
		R3P11	.9982	144 DEG RAKE	324 DEG RAKE		
		R3P12	.9970	A144	.9737	A324	.9382
		R3P13	1.0042	H144	.9556	H324	.9399
		R3P14	1.0039	D144	.9299	D324	.9357
		R3P15	1.0042	E144	.9208	E324	.9274
		R3P16	1.0040	E144	.9116	E324	.9198

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/RC#	1.8715	STAT XCW/RC#	1.5380	SPIKE		COWL	
S9	.9404	S20	.9002	XCW/RC	P/PO	XCW/RC	P/PO
R2P1	.9844	R4P1	.9822	S1	.5275	S14	.0340
R2P2	.9954	R4P2	.9885	TAP	.9369	S15	.1860
R2P3	.9909	R4P3	.9891	S2	.4765	S16	.4150
R2P4	.9848	R4P4	.9910	S11	.4765	S17	.8470
R2P5	.9708	R4P5	.9907	S12	.4765	S18	1.1740
		R4P6	.9918	S13	.4765	S19	1.4590
		R4P7	.9918	S3	.5445	S20	1.5400
		R4P8	.9916	S4	.8105	S21	1.8270
		R4P9	.9928	S5	1.0465	S22	2.7840
		R4P10	.9943	S6	1.2935	S23	3.2980
		R4P11	.9951	S7	1.4215	S24	3.2980
		R4P12	.9974	S8	1.5535	S25	5.2890
				S9	1.9165	S26	.8308
				S10	2.2525		
				S27	5.5000		
				S28	1.0465		

SPIKE R6		COWL R5	
STAT XCW/RC#	3.5040	STAT XCW/RC#	3.3270
S23	.8329	S23	.8329
R6P1	.9012	R5P1	.8826
R6P2	.9180	R5P2	.8869
R6P3	.9234	R5P3	.8870
R6P4	.9322	R5P4	.8948
R6P5	.9380	R5P5	.8982
R6P6	.9703	R5P6	.9063
R6P7	.9883	R5P7	.9329
R6P10	.9585	R5P8	.9573
R6P11	.9298	R5P9	.9744
		R5P10	.9864
		R5P11	.9885

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	203	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.4502	AMBIENT TEMP	299.4 DEG K	MAX=MIN DIST	.1264
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9179 ATMUS	K=CINCUF.	.4582
START	5:10:50.002	INTERVAL	1.000	ENG. FACE RECOV	.9187	ENGINE M/M*	.8222	K=RADIAL	.1808
STOP	5:12:30.000	ENG CUM RPM	6081.	ENG. FACE MACH NO	.4264	CUWL M/M*	.3880	K=DELTA	.1456
				CUWL LIP RECOV	.9521	ADDITIVE M/M*	.4333	K=A	.3264
				MACH AT CUWL LIP	.1887				

SPIKE R1		CUWL R3		STAT XCW/RC= 5.4830	
STAT XCW/RC=	.4808	STAT XCW/RC=	.0700	36 DEG MAKE	198 DEG MAKE
S2	.9319	S14	.9256	A36	.9196 A198
R1P1	.9700	K3P1	.9254	B36	.9139 H198
R1P2	1.0014	K3P2	.9257	C36	.8948 C198
R1P3	.9761	K3P3	.9250	D36	.8822 D198
R1P4	.9875	K3P4	.9256	E36	.8703 E198
R1P5	.9763	K3P5	.9262	90 DEG MAKE	252 DEG MAKE
R1P6	1.0039	K3P6	.9254	A90	.9805 A252
R1P7	.9946	K3P7	.9884	H90	.9607 H252
R1P8	.9662	K3P8	.9275	C90	.9339 C252
R1P9	.9481	K3P9	.9406	D90	.9166 D252
		R3P10	.9703	E90	.9034 E252
		R3P11	1.0028	144 DEG MAKE	324 DEG MAKE
		K3P12	1.0000	A144	.9762 A324
		K3P13	1.0081	H144	.9527 H324
		K3P14	1.0085	D144	.9183 D324
		K3P15	1.0138	C144	.9191 C324
		K3P16	.0000	E144	.9198 E324

SPIKE R2		CUWL R4		STATIC PRESSURES			
STAT XCW/RC=	1.8758	STAT XCW/RC=	1.5380	TAP	SPIKE	IAP	CUWL
S9	.9253	S20	.8817	S1	.5318	.9300	S14
R2P1	.9848	K4P1	.9814	S2	.4808	.9319	S15
R2P2	.9984	K4P2	.9885	S11	.4808	.9295	S16
R2P3	.9653	K4P3	.9901	S12	.4808	.9308	S17
R2P4	.9645	K4P4	.9814	S13	.4808	.9329	S18
R2P5	.9746	K4P5	.9889	S3	.5488	.9369	S19
		K4P6	.9923	S4	.8146	.9449	S20
		K4P7	.9949	S5	1.0508	.9450	S21
		K4P8	.9970	S6	1.2478	.9422	S22
		K4P9	.9974	S7	1.4258	.9376	S23
		K4P10	.9974	S8	1.5576	.9361	S26
		K4P11	.9992	S9	1.9208	.9253	
		K4P12	.9994	S10	2.2500	.9687	
				S27	5.3000	.8135	
				S28	1.8506	1.0036	

SPIKE R6		CUWL R5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.8004	S23	.8004
R6P1	.8751	R5P1	.8652
H6P2	.8941	R5P2	.8623
H6P3	.9031	R5P3	.8653
H6P4	.9293	R5P4	.8727
H6P5	.8939	R5P5	.8830
H6P8	.9754	R5P6	.8980
H6P9	.9543	R5P7	.9246
R6P10	.9492	R5P8	.9580
H6P11	.9199	R5P9	.9786
		R5P10	.9873
		R5P11	.9874

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	204	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.4585	AMBIENT TEMP	299.4 DEG K	MAX-MIN DIST	.1373
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9184 ATMOS	K-CIRCUMF.	.5949
START	5:12:30.000	INTERVAL	1.000	ENG_FACE REC'D	.9139	ENGINE M/M*	.8606	K-RADIAL	.2104
STOP	5:14: 1.002	ENG LOK RPM	6249.	ENG_FACE MACH NO	.4509	COWL M/M*	.3880		
				COWL LIP REC'D	.9466	ADDITIVE M/M*	.4727	K-DELTA	.1163
				MACH AT COWL LIP	.1893			K-A	.3267

SPIKE R1		COWL M3		STAT XCW/MC= 5.4830			
STAT XCW/MC=	.4725	STAT XCW/MC=	.0700	30 DEG MAKE	198 DEG MAKE		
S2	.9261	S14	.9204	A36	.9120	A198	.9544
R1P1	1.0027	R3P1	.9205	B36	.8991	B198	.9417
R1P2	1.0027	R3P2	.9206	C36	.8814	C198	.9231
R1P3	1.0027	R3P3	.9198	D36	.8665	D198	.8849
R1P4	1.0055	R3P4	.9192	E36	.8564	E198	.8621
R1P5	1.0041	R3P5	.9182	90 DEG MAKE	252 DEG MAKE		
R1P6	1.0025	R3P6	.9196	A90	.9419	A252	.9416
R1P7	1.0027	R3P7	1.0029	M90	.9617	B252	.9195
R1P8	1.0030	R3P8	.9209	C90	.9250	C252	.9034
R1P9	.9942	R3P9	.9308	D90	.9080	D252	.8878
		R3P10	.9605	E90	.8951	E252	.8752
		R3P11	1.0020	144 DEG MAKE	324 DEG MAKE		
		R3P12	.9999	A144	.9748	A324	.9229
		R3P13	1.0071	B144	.9564	B324	.9365
		R3P14	.9000	D144	.9161	C324	.9238
		R3P15	1.0102	C144	.9060	D324	.9100
		R3P16	1.0065	E144	.8954	E324	.8942

SPIKE R2		COWL M4		STATIC PRESSURES			
STAT XCW/MC=	1.8675	STAT XCW/MC=	1.5380	SPIKE		COWL	
S9	.9255	S20	.8760	XLW/MC	P/P0	IAP	XCW/MC
R2P1	.9741	M4P1	.9773	S1	.9235	.9247	S14
R2P2	.9937	M4P2	.9864	S2	.4725	.9261	S15
R2P3	.9909	M4P3	.9840	S11	.4725	.9257	S16
R2P4	.9841	M4P4	.9895	S12	.4725	.9000	S17
R2P5	.9626	M4P5	.9894	S13	.4725	.9263	S18
		M4P6	.9893	S3	.9405	.9321	S19
		M4P7	.9906	S4	.8065	.9401	S20
		M4P8	.9962	S5	1.0425	.9406	S21
		M4P9	.9938	S6	1.2895	.9375	S22
		M4P10	.9933	S7	1.4175	.9316	S23
		M4P11	.9976	S8	1.5495	.9249	S26
		M4P12	.9967	S9	1.9125	.9255	
				S10	2.2485	.9653	
				S27	5.3000	.7974	
				S28	1.0425	1.0026	

SPIKE R6		COWL M5	
STAT XCW/MC=	3.5040	STAT XCW/MC=	3.3270
S23	.7862	S23	.7862
R6P1	.8695	M5P1	.8549
R6P2	.8916	M5P2	.8605
M6P3	.9053	M5P3	.8638
M6P4	.9107	M5P4	.8654
R6P5	.9206	M5P5	.8720
R6P8	.9637	M5P6	.8871
R6P9	.9603	M5P7	.9182
R6P10	.9449	M5P8	.9571
R6P11	.9074	M5P9	.9752
		M5P10	.9818
		M5P11	.9852

YF-12 INLET NOISE SUPPRESSION STUDY

RUN 205 FLIGHT DATE 09/20/79 SPIKE POS. OX/RC .4502 AMBIENT TEMP 301.1 DEG K
 FLIGHT NO. 0 BYPASS POS. OPEN AMBIENT PRESS .9075 ATMOS
 START 5:14:1.002 INTERVAL 1.000 ENG. FACE MECUV .8004 ENGINE M/M* .8508
 STOP 5:14:113.569 ENG LOW RPM 8457. ENG. FACE MACH NO 1.0902 COWL M/M* .4528
 COWL LIP MECUV .9598 ADDITIVE M/M* .3979
 MACH AT COWL LIP .2196

MAX-MIN DIST 1.1644
 K-CIRCUMF. 1.5215
 K-RADIAL .4191
 K-DELTA 1.2723
 K-A 1.6913

SPIKE R1		COWL R3		STAT XCW/RC# 5.4830	
STAT XCW/RC#		STAT XCW/RC#		30	198
S2	.9308	S14	.9253	A36	.0000
R1P1	1.0140	R3P1	.0000	H36	.0000
R1P2	1.0140	R3P2	.9252	C36	.8810
R1P3	1.0155	R3P3	.9246	D36	.8674
R1P4	1.0153	R3P4	.9246	E36	.8532
R1P5	1.0152	R3P5	.9249	90	DEG MAKE
R1P6	1.0150	R3P6	.9243	A90	1.0018
R1P7	1.0150	R3P7	1.0146	H90	.9694
R1P8	1.0152	R3P8	.9256	C90	.9334
R1P9	1.0065	R3P9	.9368	D90	.9073
		R3P10	.9684	E90	.8950
		R3P11	1.0095	144	DEG MAKE
		R3P12	1.0095	A144	1.0018
		R3P13	1.0187	H144	.9614
		R3P14	1.0181	D144	.9274
		R3P15	1.0187	C144	.9163
		R3P16	1.0187	E144	.9047
				A198	.9620
				H198	.9476
				C198	.9337
				D198	.8943
				E198	.8569
				252	DEG MAKE
				A252	.9610
				H252	.9270
				C252	.9136
				D252	.8921
				E252	.8779
				324	DEG MAKE
				A324	.9329
				H324	.9414
				C324	.9379
				D324	.9188
				E324	.8915

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/RC#		STAT XCW/RC#		SPIKE		COWL	
				XCW/RC	P/PO	XCW/RC	P/PO
S9	.9320	S20	.8757	S1	.5318	S14	.0340
R2P1	.9927	R4P1	.9908	S2	.4808	S15	.1860
R2P2	1.0078	R4P2	.9975	S11	.4808	S16	.4150
R2P3	1.0021	R4P3	1.0005	S12	.4808	S17	.8470
R2P4	.9929	R4P4	.9984	S13	.4808	S18	1.1740
R2P5	.9692	R4P5	.0000	S3	.5488	S19	1.4590
		R4P6	.0000	S4	.8148	S20	1.5400
		R4P7	.0000	S5	1.0508	S21	1.8270
		R4P8	1.0035	S6	1.2978	S22	2.7840
		R4P9	1.0050	S7	1.4258	S23	3.2980
		R4P10	1.0054	S8	1.5578	S26	5.2890
		R4P11	1.0089	S9	1.9208		.0000
		R4P12	1.0103	S10	2.2508		
				S27	5.3000		
				S28	1.0508		
					1.0148		

SPIKE R6		COWL R5	
STAT XCW/RC#		STAT XCW/RC#	
S23	.7770	S23	.7770
R6P1	.8657	R5P1	.8515
R6P2	.9033	R5P2	.8617
R6P3	.9051	R5P3	.8677
R6P4	.9246	R5P4	.8660
R6P5	.9335	R5P5	.8601
R6P8	.0000	R5P6	.8407
R6P9	.0000	R5P7	.9249
R6P10	.9529	R5P8	.9645
R6P11	.9104	R5P9	.9645
		R5P10	.9906
		R5P11	.9980

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	206	FLIGHT DATE 09/20/79	SPIKE POS. DX/RC	.4757	AMBIENT TEMP	300.6 DEG K	MAX-MIN DIST	1.1631
		FLIGHT NO.	0		AMBIENT PRESS	.9215 ATMOS	K-CIRCUMF.	1.2584
START	5:16:00	INTERVAL	1.000	ENG. FACE RECUV	.8542	ENGINE M/M*	K-RADIAL	.6777
STOP	5:17:10.000	ENG CUM RPM	6658.	ENG. FACE MACH NO	.4571	COWL M/M*		
				LWML LIP RECUV	.0000	ADDITIVE M/M*	K-DELTA	1.0308
				MACH AT LWML LIP	#####		K-A	1.7085

SPIKE R1		COWL K3		STAT XCM/RC= 5.4850	
STAT XCM/RC=	.4573	STAT XCM/RC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.0000	S14	.0000	A36	.9003
R1P1	.9985	K3P1	.9054	H36	.8790
R1P2	.9983	K3P2	.9070	C36	.8607
R1P3	.9994	K3P3	.9073	D36	.8413
R1P4	.9995	K3P4	.9074	E36	.8324
R1P5	.9999	K3P5	.9069	90 DEG HAKE	252 DEG HAKE
R1P6	1.0001	K3P6	.9074	A90	.9701
R1P7	.9987	K3P7	.9997	H90	.9516
R1P8	.9998	K3P8	.0000	C90	.9043
R1P9	.0000	K3P9	.0000	D90	.8844
		K3P10	.9702	E90	.8701
		R3P11	.0000	144 DEG HAKE	324 DEG HAKE
		K3P12	.0000	A144	.9734
		K3P13	1.0032	H144	.9374
		K3P14	1.0035	D144	.8476
		K3P15	1.0034	C144	.8450
		R3P16	1.0031	E144	.8423
					.8324
					.0000

SPIKE R2		COWL K4		STATIL PRESSURES			
STAT XCM/RC=	1.8523	STAT XCM/RC=	1.5380	SPIKE		COWL	
S9	.9135	S20	.8540	TAP	XCM/RC	P/PU	TAP
R2P1	.0000	H4P1	.9723	S1	.5085	.0000	S14
R2P2	.0000	H4P2	.9804	S2	.4573	.0000	S15
R2P3	.9861	H4P3	.9824	S11	.4573	.9109	S16
R2P4	.9778	H4P4	.9827	S12	.4573	.9153	S17
R2P5	.9556	H4P5	.9853	S13	.4573	.9154	S18
		H4P6	.9853	S3	.5253	.9215	S19
		H4P7	.9864	S4	.7413	.9291	S20
		H4P8	.9862	S5	1.0273	.9304	S21
		H4P9	.9885	S6	1.2743	.9244	S22
		H4P10	.9887	S7	1.4023	.0000	S23
		H4P11	.9885	S8	1.5343	.9120	S26
		H4P12	.9921	S9	1.8473	.9135	
				S10	2.2333	.0000	
				S27	5.3000	.7600	
				S28	1.0243	.9995	

SPIKE R6		COWL K5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.7514	S23	.7514
H6P1	.8380	K5P1	.8242
H6P2	.8600	K5P2	.8326
H6P3	.8360	K5P3	.8347
H6P4	.8985	K5P4	.8412
H6P5	.9098	K5P5	.8503
H6P6	.9675	K5P6	.8725
H6P9	.9558	K5P7	.9106
H6P10	.9343	K5P8	.9527
H6P11	.8907	K5P9	.9702
		K5P10	.0000
		H5P11	.9744

		YF-12 INLET NOISE SUPPRESSION STUDY							
HUN	20A	FLIGHT DATE	09/20/70	SPIKE POS. DX/MC	.0847	AMBIENT TEMP	300.6 DEG K	MAX-MIN DIST	1.1166
		FLIGHT NO.	0	BYPASS POS. UPEN		AMBIENT PRESS	.9168 ATMUS	K-CIRCUMF.	3.0353
START	5:20:20.000	INTERVAL	1.000	ENG. FALC RECOV	.8888	ENGINE M/M*	.8391	K-RADIAL	1.4830
STOP	5:22:12.000	ENG LOK MPH	4275.	ENG. FALC MACH NO	.2440	COWL M/M*	.2464	K-DELTA	2.4289
				COWL LIP RECOV	.9952	ADDITIVE M/M*	.5927	K-A	3.9120
				MACH AT COWL LIP	.0783				

SPIKE R1		COWL K3		STAT XLM/MC= 5.4850			
STAT XCW/MC=	.8463	STAT XLM/MC=	.0700	36 DEG MAKE	198 DEG MAKE		
S2	.9903	S14	.9916	A36	.9467	A198	.9607
R1P1	1.0064	R3P1	.9949	H36	.9447	H198	.9534
R1P2	1.0064	R3P2	.9916	C36	.9415	C198	.9603
R1P3	1.0064	R3P3	.9916	U36	.9335	O198	.9397
R1P4	1.0060	R3P4	.9915	E36	.9273	E198	.9305
R1P5	1.0062	R3P5	.9915	40 DEG MAKE	252 DEG MAKE		
R1P6	1.0062	R3P6	.9915	A90	.9424	A252	.9712
R1P7	1.0062	R3P7	1.0058	H90	.9858	H252	.9521
R1P8	1.0059	R3P8	.9911	C90	.9732	C252	.9462
R1P9	1.0054	R3P9	.9913	D90	.9582	O252	.9406
		R3P10	.9932	E90	.9513	E252	.9304
		R3P11	1.0001	144 DEG MAKE	324 DEG MAKE		
		R3P12	1.0037	A144	.9684	A324	.9520
		R3P13	1.0105	H144	.9613	H324	.9517
		R3P14	.0000	O144	.9497	C324	.9494
		R3P15	1.0167	C144	.9434	O324	.0000
		R3P16	1.0107	E144	.9371	E324	.0000

SPIKE K2		COWL K4		STATIC PRESSURES			
STAT XCW/MC=	2.2413	STAT XLM/MC=	1.5380	SPIKE		COWL	
S9	.9690	S20	.9399	XCW/MC	P/PO	IAP	XCW/MC
R2P1	1.0007	R4P1	1.0047	TAP			P/PO
R2P2	1.0025	R4P2	1.0074	S1	.8473	S14	.0340
R2P3	.9972	R4P3	1.0077	S2	.8463	S15	.1860
R2P4	.0000	R4P4	1.0079	S11	.8463	S16	.4150
R2P5	.9728	R4P5	1.0097	S12	.8463	S17	.8470
		R4P6	1.0081	S13	.8463	S18	1.1740
		R4P7	1.0077	S3	.9143	S19	1.4590
		R4P8	1.0116	S4	1.1803	S20	1.5400
		R4P9	1.0096	S5	1.4163	S21	1.8270
		R4P10	.0000	S6	1.6633	S22	2.7840
		R4P11	1.0042	S7	1.7913	S23	3.2980
		R4P12	1.0095	S8	1.9233	S26	5.2890
				S9	2.2063		.9098

SPIKE K6		COWL K5			
STAT XCW/MC=	3.5040	STAT XLM/MC=	3.3270	S27	5.3000
S23	.9061	S23	.9061	S28	1.4163
R6P1	.9431	K5P1	.9333		1.0051
R6P2	.9483	K5P2	.9326		
R6P3	.9494	K5P3	.9331		
R6P4	.9496	K5P4	.9344		
R6P5	.9568	K5P5	.9447		
R6P8	.9560	K5P6	.9517		
R6P9	.9482	K5P7	.9624		
R6P10	.9427	K5P8	.9833		
R6P11	.9366	K5P9	.9400		
		K5P10	1.0001		
		K5P11	.0000		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	211	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.0868	AMBIENT TEMP	301.1 DEG K	MAX-MIN OIST	1.2314
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9309 ATMOS	K-CIRCUMF.	2.4002
START	5:25:30.002	INTERVAL	1.000	ENG. FALC RECOV	.7600	ENGINE M/M*	.8799	K-RADIAL	2.7872
STOP	5:27:15.000	ENG CUR RPM	5622.	ENG. FALC MACH NO	.9752	COWL M/M*	.4087		
				COWL LIP RECOV	.9705	ADDITIVE M/M*	.4712	K-DELTA	2.0077
				MACH AT COWL LIP	.1341			K-A	4.7949

SPIKE R1		COWL M3		STAT XCW/RCE 5.4830	
STAT XCW/RCE	.8442	STAT XCW/RCE	.0700	36 DEG	RAKE
S2	.9590	S14	.9577	A36	.0000
R1P1	.9876	R3P1	.9560	B36	.8593
R1P2	.9896	R3P2	.9568	C36	.8450
R1P3	.9898	R3P3	.9577	D36	.8593
R1P4	.9898	R3P4	.9593	E36	.0000
R1P5	.9968	R3P5	.9590	90 DEG	RAKE
R1P6	1.0001	R3P6	.9580	A90	.0000
R1P7	.9954	R3P7	.9953	H90	.9359
R1P8	.9946	R3P8	.9587	H90	.9359
R1P9	.9917	R3P9	.9589	H90	.9359
		R3P10	.9625	E90	.8668
		R3P11	.9732	144 DEG	RAKE
		R3P12	.9813	A144	.9287
		R3P13	.9943	E144	.9108
		R3P14	.9928	O144	.8760
		R3P15	.9982	C144	.8612
		R3P16	.9929	E144	.8466

SPIKE R2		COWL M4		STATIC PRESSURES			
STAT XCW/RCE	2.2592	STAT XCW/RCE	1.5380	SPIKE		COWL	
S9	.9191	S20	.8604	XCW/RCE	P/PO	XCW/RCE	P/PO
R2P1	.9784	R4P1	.9829	S1	.8452	S14	.0340
R2P2	.9846	R4P2	.9885	S1	.8442	S15	.1860
R2P3	.9741	R4P3	.0000	S11	.8442	S16	.4150
R2P4	.9445	R4P4	.0000	S12	.8442	S17	.8470
R2P5	.9215	R4P5	.0000	S13	.8442	S18	1.1740
		R4P6	.0000	S3	.9122	S19	1.4590
		R4P7	.9897	S4	1.1782	S20	1.5400
		R4P8	1.0202	S5	1.4142	S21	1.8270
		R4P9	.9919	S6	1.6612	S22	2.7840
		R4P10	.0000	S7	1.7892	S23	3.2980
		R4P11	.0000	S8	1.9212	S26	5.2490
		R4P12	.9997	S9	2.2842		

SPIKE R6		COWL M5	
STAT XCW/RCE	3.5040	STAT XCW/RCE	3.3270
S23	.7842	S23	.7842
R6P1	.8646	R5P1	.8405
R6P2	.8781	R5P2	.8421
R6P3	.8845	R5P3	.8383
R6P4	.0000	R5P4	.8455
R6P5	.0000	R5P5	.8548
R6P8	.0000	R5P6	.8046
R6P9	.8797	R5P7	.8468
R6P10	.8617	R5P8	.9353
R6P11	.8391	R5P9	.9571
		R5P10	.9042
		R5P11	.9657

NOTE: .0000 indicates invalid data

APPENDIX B

TABULATIONS OF ACOUSTIC DATA FOR YF-12 AIRCRAFT TESTS

(THIS PAGE LEFT INTENTIONALLY BLANK)

APPENDIX B

TABULATIONS OF ACOUSTIC DATA FOR YF-12 AIRCRAFT TESTS

This appendix contains one-third octave band SPL tabulations of the acoustic data that was reduced for the YF-12 aircraft tests. Table B-1 shows the runs that were reduced relative to the entire test matrix.

The measurements from microphones M1, M2, M3, and M11 were unreliable in a number of test runs. These data were not presented but have been retained on tape for further evaluation, if the need arises.

On certain runs, the data from particular microphones were unreliable and also were not presented.

Any final corrections to the data have been noted at the bottom of the corresponding page.

(THIS PAGE LEFT INTENTIONALLY BLANK)

TABLE B-1. RUN NUMBERS FOR REDUCED YF-12 ACOUSTIC DATA

ENGINE SPEED (RPM)	SPIKE FORWARD		SPIKE MIDWAY		SPIKE AFT	
	BYPASS OPEN	BYPASS CLOSED	BYPASS OPEN	BYPASS CLOSED	BYPASS OPEN	BYPASS CLOSED
IDLE	35, 145, $\overline{187}$	7, 93	55	70	124	63
4000	36	8, 94				64
4200	37, 146, $\overline{188}$	9, 95, 157	115, $\overline{199}$	71	($\overline{125}$), 173, $\overline{208}$	65, 181
4300					126	
4400	38	10, 96			($\overline{127}$)	66, 182
4500					128	
4600	39, 147, 189	11, 97	116, 200	72	($\overline{129}$)	183
4700					130	
4800	40	12, 98			($\overline{131}$)	184
4900					132	
5000	($\overline{41}$), $\overline{87}$, 142, ($\overline{148}$), 190	($\overline{13}$), $\overline{99}$, ($\overline{158}$)	(56), 166, $\overline{201}$	(73)	($\overline{133}$), 174, $\overline{210}$	(69), ($\overline{185}$)
5200	42	15, 100		74	($\overline{134}$)	
5400	43, 149, 191	14, 101				
5500	143	16, 102		76		
5600	44, 150, 192	(17), $\overline{103}$, ($\overline{159}$)	(57), 167, 202	77	($\overline{175}$), 211	
5700	144	18, 104				
5800	45, 151, 193	19, 105	118	79	($\overline{135}$)	
5900	46	20, 106		80		
6000	($\overline{47}$), $\overline{88}$, ($\overline{152}$), 194	($\overline{21}$), $\overline{107}$, ($\overline{160}$)	(58), 168, 203	(81)	($\overline{136}$), 176	
6100	48	22, 108	119	82		
6200	($\overline{49}$), $\overline{89}$, ($\overline{153}$)	($\overline{23}$), $\overline{109}$, ($\overline{161}$)	(59), 169, 204	(83)	($\overline{137}$), 177	
6300	50	24, 110	120, 121	84		
6400	($\overline{51}$), $\overline{90}$, ($\overline{154}$), 196	($\overline{25}$), $\overline{111}$, ($\overline{162}$)	(60), 170	(85)	($\overline{138}$), 178	
6500	52	26, 112	122			
6600	($\overline{53}$), $\overline{91}$, ($\overline{155}$), 197	($\overline{27}$), $\overline{113}$, ($\overline{163}$)	(61), 171, 206		($\overline{139}$), 140	
SWEEP	29, 54, 92, 156, 198, 34	6, 28, 114, 164	62, 123, 172, 207	86	141, 180, 216	186

- Notes:
1. Runs 145-216, spike bleed taped
 2. Runs 187-216, bypass louvers removed
 3. Run numbers (xx) microphone data reduced, \overline{xx} Kulite data reduced

YF-12 INLET NOISE SUPPRESSION
 14149 DEC 12, 1979 TEST 9477
 YF-12 INLET NOISE SUPPRESSION

RUN 13
 SPIKE FORWARD
 BYPASS DOORS-Closed
 5000 RPM

RUN	23	24	25	26	27	28	29	30	31	32
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR10 F10 135. DEG
50	79.0	82.5	82.1	82.2	82.4	82.5	84.9	88.3	99.7	63.1
63	79.2	80.7	78.9	78.8	82.0	85.5	85.0	88.1	99.4	61.2
80	81.2	81.5	80.5	80.3	83.6	85.5	84.6	86.9	98.4	62.1
100	85.4	83.5	82.8	82.7	84.6	85.2	84.0	86.7	97.4	62.6
125	86.2	84.5	85.2	85.8	86.4	86.0	84.5	88.1	97.2	63.0
160	87.5	87.6	87.9	87.8	89.4	89.1	88.6	89.4	97.5	65.2
200	85.6	87.6	87.1	86.8	86.9	88.1	86.9	88.1	96.2	67.5
250	86.5	86.4	87.0	87.2	88.3	87.4	86.1	87.0	98.0	68.5
315	85.7	85.7	85.7	86.4	86.6	86.3	86.2	85.8	98.0	65.9
400	85.8	86.3	86.7	86.8	87.1	87.7	85.6	85.9	97.3	67.1
500	89.0	89.6	89.1	88.6	88.7	88.5	88.8	88.8	99.7	66.4
630	90.1	90.9	90.3	90.0	91.5	91.4	91.3	91.0	101.1	67.3
800	91.5	91.8	90.7	91.1	90.9	91.8	90.9	89.9	100.2	65.0
1K	90.6	90.5	90.4	90.5	90.9	91.7	90.7	89.3	99.7	63.9
1.25K	89.9	89.5	88.9	90.1	90.1	91.9	90.1	88.8	98.4	61.8
1.6K	91.5	90.7	90.3	91.1	90.9	92.4	89.7	88.3	97.8	60.6
2K	93.9	92.5	92.0	91.4	91.0	92.2	90.2	88.5	97.5	60.7
2.5K	104.2	102.1	100.8	99.3	97.5	97.0	92.4	89.0	97.2	61.2
3.15K	101.5	100.9	100.1	99.8	98.2	98.4	94.0	89.4	96.2	60.5
4K	94.5	94.5	93.7	92.8	92.3	92.9	89.3	85.7	93.8	58.8
5K	94.2	94.4	94.0	92.4	91.4	92.0	87.1	84.0	92.2	57.7
6.3K	92.8	92.8	91.6	91.0	90.2	91.1	86.9	84.1	92.4	58.0
8K	92.5	91.5	91.1	90.6	89.0	90.2	89.3	87.6	96.8	66.6
10K	88.3	89.1	88.1	87.0	85.9	86.9	83.3	80.8	89.9	59.6
63	84.7	86.4	85.5	85.4	87.5	89.5	89.6	92.6	104.0	67.0
125	91.2	90.4	90.6	90.7	92.0	91.9	91.5	93.0	102.1	68.6
250	90.7	91.4	91.4	91.9	92.1	92.1	91.2	91.9	102.2	72.2
500	93.4	94.1	93.7	93.4	94.3	94.3	93.9	93.8	104.4	71.8
1K	95.5	95.8	94.8	95.3	95.4	96.8	95.4	94.1	104.3	68.5
2K	104.8	102.8	101.7	100.5	99.1	99.2	95.7	93.4	102.3	65.6
4K	102.9	102.5	101.8	101.1	99.9	100.2	95.9	91.8	99.0	63.9
8K	96.4	96.2	95.3	94.6	93.5	94.8	91.9	89.8	94.8	67.9
LP-8	108.0	107.0	106.2	105.5	104.8	105.2	102.7	101.7	111.6	78.0
SIL	101.0	100.3	99.4	99.0	98.1	98.7	95.6	93.1	101.9	66.0
ODBA	108.7	107.6	106.7	105.9	104.8	105.2	102.1	99.8	109.1	74.7
PNDB	122.8	121.6	120.9	120.4	119.5	119.9	114.7	114.1	122.6	88.0
STOP 0										

YF-12 INLET NOISE SUPPRESSION
 11:20 APR 28, 1960 TEST 10645
 YF-12 INLET NOISE SUPPRESSION
 RUN 17
 SPIKE FORWARD
 BYPASS DRUMS CLOSED
 5600 RPM

RUN	23	24	25	26	27	28	29	30	31	32
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR10 F10 135. DEG
50	80.3	82.5	82.1	82.8	83.1	83.9	85.0	88.1	90.1	98.1
63	83.8	84.7	83.4	83.1	86.5	89.1	87.5	91.1	93.2	97.6
80	83.3	84.5	83.4	83.7	87.0	87.7	87.3	90.0	92.4	97.6
100	87.4	86.0	84.3	85.7	87.6	88.6	88.1	90.5	91.5	98.5
125	87.8	86.2	86.4	87.4	87.9	87.8	89.4	90.8	91.4	98.8
160	89.1	88.9	88.3	88.5	89.0	89.2	90.6	90.5	90.4	99.8
200	87.5	88.9	88.6	88.3	89.1	89.8	88.9	89.8	90.8	101.4
250	89.6	89.5	90.2	90.6	90.8	90.1	88.6	89.5	91.7	102.9
315	89.2	89.1	88.4	89.3	89.4	88.9	87.9	88.6	90.6	100.0
400	88.4	88.8	88.9	88.7	89.0	88.1	86.8	87.2	89.4	100.6
500	90.4	91.2	90.2	89.7	89.1	88.7	86.8	85.9	88.1	97.5
630	91.5	92.0	90.6	90.3	91.5	90.7	89.6	87.4	88.8	97.4
800	91.6	91.5	90.2	90.1	89.6	88.6	86.7	85.7	88.4	94.4
1K	91.9	90.9	89.0	89.2	88.6	88.1	86.6	85.8	88.6	92.9
1.25K	93.7	92.4	90.7	90.5	89.9	89.8	87.7	87.1	89.8	97.3
1.6K	94.6	92.8	92.0	91.3	90.6	91.0	86.7	84.7	86.4	92.0
2K	94.5	92.8	92.0	91.0	90.2	90.5	86.9	84.1	85.2	88.8
2.5K	100.4	97.7	96.5	95.0	93.2	92.9	88.8	85.3	84.6	88.9
3.15K	102.2	100.6	99.4	98.9	97.2	97.4	93.1	88.5	85.8	89.5
4K	96.8	96.9	96.1	94.9	94.9	95.2	91.6	87.0	83.8	89.1
5K	93.2	93.2	92.9	91.5	90.8	91.4	87.0	84.1	82.3	88.1
6.3K	91.7	91.5	90.2	89.5	88.7	89.6	85.3	83.4	82.0	88.3
8K	91.9	91.1	90.6	89.8	88.7	89.8	88.2	87.4	87.9	95.2
10K	87.4	88.3	87.4	86.1	85.8	87.2	84.5	84.2	88.3	95.6
63	87.5	88.8	87.8	88.0	90.6	92.2	91.5	94.7	94.9	102.5
125	92.9	92.0	91.4	92.2	93.0	93.3	94.3	95.4	95.9	103.8
250	93.6	93.9	93.9	94.2	94.6	94.4	93.3	94.1	95.8	106.3
500	95.1	95.6	94.7	94.4	94.8	93.7	92.7	91.6	93.6	103.6
1K	97.3	96.4	94.8	94.7	94.1	93.7	91.8	91.0	93.8	100.0
2K	102.2	99.9	98.9	97.6	96.3	96.4	92.3	89.5	90.2	94.9
4K	103.7	102.7	101.7	100.9	99.8	100.1	96.0	91.7	89.0	93.7
8K	95.5	95.3	94.4	93.5	92.7	93.4	91.1	90.1	90.5	98.8
LP-N	107.6	105.5	105.5	104.9	104.4	104.5	102.2	101.8	103.1	111.2
SIL	101.1	99.7	98.4	97.7	96.8	96.7	93.4	90.7	91.0	96.2
ODBA	108.0	106.6	105.6	104.8	103.8	103.9	100.5	98.0	98.7	106.0
PNCB	122.7	121.5	120.5	119.9	119.0	119.2	115.9	113.4	112.9	119.4

*STOP 0

YF-12 INLET NOISE SUPPRESSION
 15136 DEC 12, 1979 TEST 9477
 YF-12 INLET NOISE SUPPRESSION
 RUN 21
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6000 RPM

RUN	34	45	36	37	38	39	40	41	42	43
FREQ (HZ)	TR 1 F1 0° DEG	TR 2 F2 10° DEG	TR 3 F3 20° DEG	TR 4 F4 30° DEG	TR 5 F5 40° DEG	TR 6 F6 50° DEG	TR 7 F7 70° DEG	TR 8 F8 90° DEG	TR 9 F9 110° DEG	TR 10 F10 135° DEG
50	80.0	81.9	81.6	82.5	83.0	83.6	84.3	87.3		
63	84.2	85.5	84.1	83.8	86.6	87.3	88.0	91.5		
80	83.5	84.8	84.0	83.9	86.9	87.8	87.3	87.3		
100	87.1	86.1	84.5	86.3	87.8	88.2	87.6	91.0		
125	88.6	87.2	87.3	88.3	88.4	88.5	90.4	91.9		
160	89.2	89.1	88.6	88.7	89.3	89.9	89.9	91.1		
200	88.5	90.0	89.2	89.6	90.1	91.1	90.3	91.6		
250	90.5	90.4	91.3	91.6	91.5	90.9	89.5	90.8		
315	90.3	90.4	89.4	90.6	90.6	89.7	89.2	90.1		
400	89.6	89.8	90.3	89.9	89.9	89.0	87.6	88.6		
500	90.8	91.6	90.9	90.5	89.5	88.7	87.2	87.2		
630	92.1	92.5	91.2	91.1	90.4	90.2	88.2	88.4		
800	92.1	92.2	90.9	90.5	89.8	89.5	87.5	87.8		
1K	92.7	92.3	90.5	90.4	89.2	88.7	87.4	87.5		
1.25K	94.6	93.5	92.1	92.2	90.9	91.3	89.0	89.4		
1.6K	95.3	93.6	92.8	92.3	91.1	91.8	88.0	87.1		
2K	95.2	93.8	93.0	92.0	90.9	91.2	88.5	86.1		
2.5K	100.2	97.7	96.5	95.2	93.1	92.7	89.1	86.2		
3.15K	103.5	101.7	100.7	100.0	97.9	97.9	94.0	89.7		
4K	99.6	99.8	99.0	97.5	97.3	97.3	94.0	89.8		
5K	95.3	95.2	95.3	93.7	92.8	93.0	89.3	86.5		
6.3K	92.6	92.4	91.0	90.2	89.2	90.0	85.7	84.0		
8K	92.8	91.7	91.4	90.7	89.0	89.9	88.2	87.2		
10K	88.1	88.9	88.0	87.0	86.2	87.2	85.2	85.2		
63	87.7	89.1	88.2	88.2	90.6	92.2	91.6	94.9		
125	93.2	92.4	91.9	92.7	93.3	93.7	94.7	96.3		
250	94.6	95.0	94.8	95.4	95.5	95.4	94.5	95.6		
500	95.7	96.2	95.6	95.3	94.7	94.1	92.4	92.9		
1K	98.1	97.5	94.0	95.9	94.8	94.7	92.8	93.1		
2K	102.4	100.3	99.2	98.2	96.6	96.7	93.3	91.2		
4K	105.4	104.4	103.6	102.5	101.3	101.3	97.7	93.7		
8K	96.4	96.0	95.1	94.4	93.1	94.0	91.3	90.4		
LP-8	108.6	107.6	106.8	106.1	105.2	105.3	103.1	103.0		
SIL	101.9	100.7	99.6	98.9	97.6	97.6	94.6	92.7		
80DBA	109.0	107.8	106.9	106.0	104.7	104.8	101.6	99.6		
PNDB	123.8	122.6	121.7	121.1	119.7	119.8	116.8	114.7		
*STOP: 0										

YF-12 INLET NOISE SUPPRESSION
 19119 DEC 05, 1979 TEST 935a
 YF-12 INLET NOISE SUPPRESSION
 RUN 21
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6000 RPM

FREQ (Hz)	28		29		30		31		32		34		35	
	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG							
50	105.6	130.9	132.4	129.0	130.7	118.5	118.6							
63	107.8	132.1	133.4	130.7	131.8	120.3	119.9							
80	108.1	133.5	134.4	132.4	133.7	121.6	121.3							
100	111.3	134.9	135.4	135.6	135.8	123.3	124.8							
125	116.7	136.5	136.7	138.6	137.7	124.9	128.9							
160	120.7	138.1	138.0	141.0	139.1	125.9	129.2							
200	125.2	140.8	140.0	144.5	141.8	127.5	131.0							
250	128.8	143.2	143.1	145.2	142.8	129.1	131.8							
315	129.1	145.0	144.5	143.5	142.4	131.9	133.6							
400	126.7	147.5	146.7	141.3	141.8	133.4	133.1							
500	124.3	148.0	146.3	139.9	140.7	138.5	133.6							
630	123.1	145.7	143.5	139.7	140.6	142.2	138.0							
800	122.6	142.6	137.6	140.6	144.2	139.6	137.3							
1K	122.4	141.7	132.5	142.0	140.9	134.8	135.0							
1.25K	125.4	142.5	130.5	141.6	139.0	134.9	134.7							
1.6K	125.9	140.7	130.9	140.3	138.4	137.8	135.7							
2K	125.5	139.9	131.8	139.8	139.5	136.7	137.5							
2.5K	129.9	140.3	132.4	139.8	138.9	139.7	140.8							
3.15K	133.0	143.4	135.4	142.7	142.4	149.0	152.2							
4K	133.2	144.2	138.4	144.2	144.7	147.7	148.1							
5K	130.5	143.0	137.9	143.1	141.8	145.0	143.5							
6.3K	128.6	141.1	136.2	140.5	139.2	145.0	143.7							
8K	128.2	139.6	134.5	140.1	138.4	144.2	143.9							
10K	127.1	138.6	133.7	139.5	137.2	143.3	142.7							

63	112.1	137.1	138.3	135.7	137.0	125.1	124.8							
125	122.5	141.5	141.6	143.7	142.5	129.6	132.8							
250	132.8	148.1	147.7	149.3	147.0	134.7	136.9							
500	129.7	151.9	150.5	148.2	145.8	144.1	140.3							
1K	128.5	147.0	139.4	146.2	146.7	141.8	140.6							
2K	132.3	145.1	136.4	144.7	143.7	143.0	143.3							
4K	137.1	148.6	142.2	148.4	147.9	152.3	154.0							
8K	132.8	144.7	139.7	144.8	143.1	149.0	148.2							

LP-8	141.0	156.3	153.6	155.0	154.2	155.0	155.7							
SIL	132.6	146.9	139.3	146.5	146.1	149.7	146.0							
ODBA	140.7	154.6	150.1	153.4	152.9	155.2	156.3							
PNDB	155.2	168.8	163.7	168.3	167.8	169.3	170.9							
STOP 0														

YF-12 INLET NOISE SUPPRESSION
 16105 DEC 12, 1979 TEST 9477
 YF-12 INLET NOISE SUPPRESSION
 RUN 23
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6200 RPM

RUN	46	47	48	49	50	51	52	53	55
FREQ (HZ)	TR 1 F1 0° DEG	TR 2 F2 10° DEG	TR 3 F3 20° DEG	TR 4 F4 30° DEG	TR 5 F5 40° DEG	TR 6 F6 50° DEG	TR 7 F7 70° DEG	TR 8 F8 90° DEG	TR10 F10 135° DEG
50	80.6	82.6	82.8	83.9	84.4	84.9	85.5	88.7	77.8
63	85.2	86.6	85.2	84.9	87.5	90.2	88.7	92.2	78.0
80	84.6	86.0	85.3	85.1	87.8	88.7	88.3	91.6	78.0
100	88.7	87.6	85.8	87.4	88.7	89.2	88.6	92.7	79.0
125	89.7	88.2	88.5	89.5	89.7	89.4	91.9	93.3	79.8
160	89.7	89.2	88.8	89.1	89.5	90.4	91.8	92.3	80.8
200	89.1	90.8	89.8	90.4	91.0	92.1	91.5	92.9	81.1
250	91.1	90.9	91.6	91.9	92.3	91.5	90.3	91.8	82.5
315	90.9	91.2	90.2	91.4	91.3	90.6	90.6	91.4	79.8
400	90.3	90.8	91.2	90.9	90.7	90.2	88.8	89.8	80.1
500	91.0	91.8	91.5	90.8	90.3	89.5	88.3	88.5	76.7
630	91.3	92.1	91.1	91.1	90.8	90.2	88.3	88.6	76.0
800	91.9	92.2	91.1	90.9	90.3	89.6	88.3	89.0	75.1
1K	93.5	93.0	91.4	91.1	90.0	89.8	88.0	88.5	74.8
1.25K	95.4	94.4	93.1	92.8	91.7	91.8	89.8	90.7	78.0
1.6K	95.0	94.2	93.0	92.8	92.3	92.8	90.0	90.5	78.3
2K	95.0	93.6	92.9	92.0	91.3	91.8	89.0	87.2	72.9
2.5K	97.3	95.0	94.3	93.4	92.0	91.9	88.9	87.0	71.4
3.15K	99.3	97.7	97.0	96.5	94.7	95.1	91.1	88.0	70.5
4K	97.0	97.0	96.3	94.7	94.7	94.8	91.6	88.2	70.3
5K	93.8	93.8	93.8	92.3	91.5	91.8	88.4	86.3	70.5
6.3K	91.2	90.8	89.8	88.9	88.1	88.8	84.8	83.7	67.7
8K	91.1	90.1	90.2	89.5	88.2	89.0	87.5	86.5	70.5
10K	86.6	87.3	87.0	86.0	85.6	86.7	84.9	84.5	73.0
63	88.6	90.2	89.3	89.4	91.6	93.2	92.5	95.8	82.7
125	94.2	93.2	92.7	93.5	94.1	94.5	95.8	97.5	84.7
250	95.2	95.7	95.4	96.1	96.4	96.2	95.6	96.9	86.0
500	95.7	96.4	96.0	95.7	95.4	94.7	93.3	93.8	82.8
1K	98.6	98.0	96.7	96.4	95.5	95.3	93.6	94.3	81.0
2K	100.7	99.1	98.2	97.5	96.6	97.0	94.1	93.3	80.0
4K	102.0	101.2	100.7	99.6	98.6	98.9	95.4	92.3	75.2
8K	94.8	94.4	94.0	93.1	92.2	93.1	90.7	89.8	75.7
LP-8	106.9	106.2	105.5	105.1	104.6	104.8	103.2	103.8	91.4
SIL	100.5	99.8	98.6	97.9	96.9	97.0	94.3	93.3	78.7
BDDBA	106.8	105.9	105.2	104.4	103.5	103.7	101.0	100.1	86.7
PNDB	121.3	120.4	119.7	119.2	118.2	118.5	115.9	114.6	100.4
*STP= 0									

YF-12 INLET NOISE SUPPRESSION
 19125 DEC 05, 1979 TEST 9358
 YF-12 INLET NOISE SUPPRESSION
 RUN 23
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6200 RPM

FREQ (Hz)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	106.2	131.1	132.6	129.5	131.3	118.4	118.9
63	107.8	132.2	133.3	131.3	132.5	120.0	120.8
80	108.6	133.2	134.4	133.1	133.9	121.6	122.2
100	110.8	134.6	135.4	134.0	136.0	123.4	125.4
125	116.7	135.8	136.7	138.9	137.8	125.5	129.0
160	120.1	137.5	137.6	140.9	139.2	126.4	130.1
200	125.7	140.2	139.5	145.2	142.0	128.1	131.8
250	129.2	143.0	143.0	146.0	143.8	130.2	132.9
315	129.5	144.6	144.3	144.4	143.2	132.7	134.6
400	127.2	147.1	147.0	142.0	142.6	134.1	134.0
500	124.7	147.6	147.0	140.7	141.3	139.4	134.8
630	122.9	145.6	144.2	140.6	141.2	142.4	137.9
800	122.5	142.8	138.4	141.4	144.9	140.5	139.9
1K	122.6	141.8	133.0	142.6	141.6	136.3	136.6
1.25K	126.0	142.6	131.1	142.7	139.7	136.3	139.0
1.6K	126.2	140.9	131.5	141.2	139.1	139.0	138.0
2K	125.8	140.2	131.9	140.7	140.2	138.5	138.8
2.5K	128.3	140.2	132.6	140.5	139.4	140.4	142.2
3.15K	129.6	141.3	133.3	141.4	140.6	145.8	144.9
4K	130.5	142.6	135.7	143.4	142.9	148.0	147.6
5K	129.2	141.7	136.3	142.8	141.5	145.4	144.3
6.3K	128.0	140.4	135.8	140.7	139.3	144.6	143.0
8K	127.6	138.9	134.4	140.0	137.9	144.3	143.5
10K	126.7	137.8	133.4	139.4	136.9	143.2	142.1
63	112.4	137.0	138.3	136.3	137.5	125.0	125.6
125	122.0	140.9	141.5	143.8	142.6	130.1	133.4
250	133.2	147.8	147.5	150.0	147.7	135.5	138.0
500	130.1	151.4	151.0	146.9	146.5	144.6	140.7
1K	128.8	147.2	140.1	147.1	147.4	143.0	143.5
2K	131.7	149.2	136.8	145.6	144.4	144.1	144.8
4K	134.6	146.7	140.1	147.4	146.5	151.4	150.6
8K	132.2	143.9	139.4	144.8	142.9	148.9	147.7
LP-B	140.0	155.8	153.8	155.3	154.4	154.7	153.9
5JL	131.7	145.4	132.0	146.7	146.1	146.2	146.3
8DBA	139.3	154.0	150.1	153.5	152.7	154.8	154.1
MNDB	153.7	167.7	162.9	167.9	167.1	169.0	168.6
STOP	0						

YF-12 INLET NOISE SUPPRESSION
 16136 DEC 12, 1979 TEST 9477
 YF-12 INLET NOISE SUPPRESSION
 RUN 25
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6400 RPM

6400

RUN	57	58	59	60	61	62	63	64	66
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 10 F10 135. DEG
50	82.3	84.1	84.2	85.5	85.9	86.5	87.6	90.5	80.2
63	86.3	87.7	86.6	86.3	88.9	91.0	89.7	93.1	80.6
80	87.3	88.7	88.0	87.7	90.6	91.3	91.3	94.2	80.7
100	89.7	88.4	87.0	88.3	89.7	90.6	90.1	94.4	81.5
125	91.3	89.9	90.1	91.4	91.6	91.3	93.9	95.5	81.8
160	90.7	90.1	89.9	90.4	90.3	91.7	93.2	94.2	83.3
200	90.2	91.3	90.9	91.1	92.4	93.4	92.3	94.1	82.9
250	91.7	91.3	91.7	92.5	93.0	92.3	91.6	93.5	83.2
315	91.7	92.0	91.0	92.0	92.2	91.5	91.3	92.7	80.6
400	91.7	91.9	92.1	91.7	91.5	91.0	90.2	91.0	80.8
500	91.6	92.2	92.1	91.5	90.8	90.3	89.2	90.0	77.8
630	91.5	92.2	91.5	91.8	91.1	90.7	89.4	90.0	77.7
800	92.7	92.5	91.4	91.9	91.2	90.4	89.5	89.8	76.7
1K	94.4	93.6	92.3	91.7	91.1	90.3	90.3	91.1	75.8
1.25K	95.8	94.5	93.2	93.4	92.3	92.3	90.2	91.0	76.6
1.6K	95.1	93.9	93.1	93.7	93.0	93.8	91.5	93.3	80.0
2K	94.8	93.5	92.7	92.0	91.2	92.0	89.3	88.7	75.1
2.5K	94.8	92.9	92.6	92.1	91.0	92.0	88.9	88.1	72.7
3.15K	95.0	93.9	93.4	93.3	91.5	92.0	88.7	87.2	71.3
4K	93.4	93.4	93.0	91.7	91.5	91.7	88.7	87.0	70.6
5K	91.6	91.4	91.5	90.3	89.5	89.9	86.6	85.6	70.6
6.3K	89.8	89.3	88.3	87.8	86.9	87.8	83.5	83.2	68.0
8K	90.0	89.0	89.2	88.9	87.4	88.6	86.4	85.7	69.6
10K	85.7	86.6	86.3	85.7	85.1	86.6	84.1	84.0	71.3
63	90.5	92.0	91.3	91.3	93.6	94.9	94.5	97.6	85.3
125	95.4	94.3	94.0	95.0	95.4	96.0	97.4	99.6	87.1
250	96.0	96.3	96.0	96.7	97.3	97.2	96.5	98.2	87.2
500	96.4	96.9	96.7	96.4	95.9	95.4	94.4	95.1	83.8
1K	99.3	98.4	97.1	97.2	96.3	95.9	94.8	95.5	81.2
2K	99.7	98.2	97.6	97.4	96.6	97.5	94.8	95.5	81.8
4K	98.3	97.8	97.5	96.7	95.7	96.1	92.9	91.4	75.6
8K	93.7	93.2	92.9	92.4	91.4	92.5	89.6	89.2	74.6
LP-8	106.0	105.5	104.9	104.9	104.6	104.9	103.9	105.3	92.9
SIL	99.1	98.1	97.4	97.1	96.2	96.8	94.2	94.1	79.5
80dB	105.3	104.5	103.8	103.6	102.7	103.0	100.9	101.2	87.7
PNOB	119.1	118.4	117.9	117.8	116.9	117.3	115.0	115.2	101.7
STOP 0									

YF-12 INLET NOISE SUPPRESSION
 19131 DEC 05, 1979 TEST 9358
 YF-12 INLET NOISE SUPPRESSION
 RUN 25
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6400 RPM

RUN	50	51	52	53	54	56	57
FREQ (Hz)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	105.6	131.3	132.3	130.3	131.0	118.3	118.6
63	107.8	132.1	133.5	131.7	132.5	120.3	120.6
80	108.3	133.8	134.2	133.4	133.8	122.0	122.1
100	111.0	135.1	135.2	136.1	135.9	123.7	125.0
125	116.1	136.2	136.6	138.8	137.8	125.9	129.2
160	119.7	137.6	137.4	141.1	139.2	127.0	130.5
200	125.8	140.4	139.5	145.9	142.4	128.8	132.0
250	129.2	143.2	142.9	146.5	143.8	130.7	133.1
315	130.0	144.7	144.6	144.9	143.8	133.4	135.1
400	128.0	147.2	147.2	142.7	143.1	134.6	134.9
500	124.8	147.8	147.3	141.2	141.9	130.2	136.0
630	123.2	146.1	144.8	141.0	141.7	142.7	138.2
800	122.4	143.2	139.1	142.0	145.3	140.5	141.0
1K	123.5	142.2	133.7	142.1	142.0	137.0	145.2
1.25K	126.9	143.2	131.5	143.0	140.4	136.2	141.8
1.6K	126.4	141.5	131.9	141.8	139.7	139.4	138.4
2K	125.7	140.8	132.4	141.3	140.2	139.8	139.3
2.5K	127.4	140.4	132.8	141.0	139.8	140.3	140.7
3.15K	126.9	140.2	132.4	141.0	139.4	143.7	144.2
4K	127.5	140.4	133.1	141.5	140.1	146.3	146.5
5K	127.4	139.9	133.8	141.4	139.4	144.1	143.1
6.3K	127.2	139.3	134.1	140.2	138.3	143.9	142.2
8K	127.1	138.3	133.6	139.6	137.1	143.7	142.1
10K	126.6	137.5	133.0	139.1	136.1	142.6	141.2
63	112.2	137.3	138.2	136.8	137.4	126.2	125.4
125	121.7	141.2	141.3	143.9	142.6	130.5	133.6
250	133.5	147.8	147.6	150.6	148.1	136.1	138.5
500	130.6	151.9	151.3	146.5	147.0	145.1	141.4
1K	129.5	147.7	140.8	147.5	147.8	143.1	147.9
2K	131.3	145.7	137.1	146.2	144.9	144.6	145.3
4K	132.1	145.0	137.9	146.1	144.5	149.6	149.6
8K	131.7	143.2	138.3	144.4	142.0	148.2	146.6
LP-8	139.5	155.8	153.9	155.5	154.4	153.9	154.0
SIL	131.0	146.1	138.6	146.6	145.7	145.8	147.3
QUBA	138.3	153.9	150.1	153.4	152.5	153.8	154.1
PNOB	152.2	166.8	162.7	167.3	166.0	168.0	168.1
*STOP 2.0							

YF-12 INLET NOISE SUPPRESSION
 17120 DEC 12, '79 TEST 9477
 YF-12 INLET NOISE SUPPRESSION
 RUN 27
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6600 RPM

1600

RUN	68	69	70	71	72	73	74	75	77
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR10 F10 135. DEG
50	86.6	88.4	88.3	89.5	89.8	90.4	90.7	93.7	85.1
63	89.6	91.0	89.8	89.5	91.8	93.8	92.8	96.0	86.2
80	94.3	95.8	94.1	93.6	94.4	96.9	97.1	100.0	86.6
100	93.1	92.6	91.2	92.3	93.5	94.4	94.1	98.4	86.8
125	95.8	93.8	94.0	95.5	94.4	95.0	97.6	99.4	87.3
160	96.4	94.5	94.7	94.5	95.2	97.0	97.8	98.5	87.0
200	95.3	95.2	95.2	94.6	96.9	98.0	97.1	99.0	87.6
250	94.0	93.5	93.2	94.5	95.2	95.6	95.4	96.8	87.5
315	93.1	93.9	92.8	94.1	95.0	93.6	93.6	96.5	84.4
400	92.6	92.9	93.4	93.2	92.7	92.8	92.8	94.2	84.2
500	91.8	92.4	92.5	92.4	91.8	91.9	91.7	93.2	81.9
630	91.8	92.7	92.1	92.4	92.1	92.3	91.6	93.2	81.2
800	92.6	93.0	92.2	93.4	92.3	92.9	91.6	93.2	80.0
1K	94.3	94.2	92.7	92.7	92.2	91.4	91.7	92.0	78.1
1.25K	96.0	95.0	93.9	93.7	92.9	93.0	91.7	92.4	77.6
1.6K	95.2	94.1	93.6	93.9	93.5	94.1	92.0	93.6	78.7
2K	94.6	93.5	92.8	92.1	91.6	92.3	90.0	90.2	75.3
2.5K	93.7	92.2	92.2	92.2	90.8	91.4	88.9	89.0	72.9
3.15K	93.0	92.7	92.0	92.0	90.4	91.1	88.6	87.8	71.9
4K	91.8	92.0	91.6	90.0	89.9	90.2	88.0	86.5	70.8
5K	90.5	90.3	90.3	89.1	88.3	88.8	85.6	85.4	70.1
6.3K	89.1	88.7	87.6	87.0	86.2	87.0	82.8	83.2	68.1
8K	89.5	88.8	88.9	88.3	86.9	87.9	85.7	85.0	69.3
10K	85.5	86.7	86.2	85.2	84.6	85.7	82.9	82.8	69.6
63	96.1	97.6	96.3	96.1	98.3	99.3	99.2	102.1	90.8
125	100.1	98.5	98.3	99.0	99.3	100.4	101.6	103.5	91.8
250	99.0	99.0	98.6	99.2	100.5	100.9	100.4	102.3	91.5
500	96.8	97.5	97.5	97.4	97.0	97.1	96.8	98.3	87.4
1K	99.3	98.9	97.8	98.1	97.2	97.1	96.4	97.3	83.4
2K	99.3	98.1	97.7	97.6	96.9	97.5	95.3	96.2	81.1
4K	96.7	96.6	96.1	95.3	94.4	94.9	92.3	91.5	75.8
8K	93.1	92.9	92.5	91.8	90.8	91.7	88.8	88.5	73.8
LP-8	107.1	106.7	106.2	106.3	106.6	107.2	106.9	108.7	97.1
SIL	98.4	97.9	97.2	97.0	96.2	96.5	94.7	95.0	80.1
80BA	104.9	104.4	103.8	103.7	103.1	103.4	101.9	102.8	89.6
PNDB	118.8	118.5	117.9	117.8	117.1	117.7	116.0	116.7	103.4
*STOP 0									

YF-12 INLET NOISE SUPPRESSION
 19138 DEC 05, 1979 TEST 9358
 YF-12 INLET NOISE SUPPRESSION
 RUN 27
 SPIKE FORWARD
 BYPASS DDBS CLOSED
 6600 RPM

RUN	61	62	63	64	65	67	68
FREQ (MC)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 7 K14 O. DEG	TR 8 K18 O. DEG
50	104.8	131.4	132.8	130.3	131.5	118.9	119.2
63	106.9	132.4	133.8	131.3	132.7	120.5	121.0
80	107.9	133.8	134.5	133.6	134.2	122.3	122.4
100	110.7	134.6	135.6	136.3	136.0	124.0	125.9
125	116.0	136.4	136.8	139.0	138.0	126.2	129.6
160	119.4	137.7	137.5	141.4	139.2	127.2	131.0
200	125.9	140.6	139.2	146.2	142.4	128.7	132.1
250	129.1	143.2	143.0	146.7	143.9	131.2	133.8
315	130.1	144.9	144.4	145.1	144.3	133.9	135.8
400	128.0	147.8	147.4	143.3	143.6	134.7	135.3
500	125.0	148.1	147.6	141.7	141.9	140.8	136.3
630	123.1	148.3	145.3	141.3	142.1	143.2	140.2
800	122.5	143.6	139.7	142.4	145.6	141.6	143.8
1K	123.8	142.9	134.0	143.6	142.2	137.1	140.6
1.25K	127.1	142.7	131.8	143.8	140.7	136.8	140.1
1.6K	126.4	142.1	132.3	142.3	140.0	138.2	137.7
2K	125.8	141.3	132.5	141.9	141.2	139.9	141.1
2.5K	127.0	140.9	133.2	141.6	140.1	140.4	140.2
3.15K	126.1	140.3	132.4	141.3	139.5	143.4	142.6
4K	126.5	140.0	132.5	141.3	139.3	145.2	144.6
5K	126.6	139.4	132.9	141.0	138.8	144.0	142.8
6.3K	126.8	139.0	133.4	140.2	137.8	143.7	142.2
8K	127.1	138.3	133.5	139.7	136.9	143.5	141.8
10K	126.5	137.8	133.1	139.3	136.1	142.5	141.0
63	111.5	137.4	138.5	136.7	137.7	125.6	125.9
125	121.4	141.2	141.5	144.1	142.7	130.8	134.1
250	133.5	148.0	147.5	150.8	148.4	136.8	138.9
500	130.7	152.1	151.6	147.0	147.3	145.5	142.6
1K	129.7	148.2	141.3	148.0	148.1	143.9	146.4
2K	131.2	146.2	137.4	146.7	145.3	144.1	144.7
4K	131.2	144.7	137.4	146.0	144.0	149.3	148.2
8K	131.6	143.1	138.1	144.5	141.8	148.0	146.5
LP-8	139.3	156.1	154.0	155.8	154.6	153.9	153.3
SIL	130.7	146.4	138.7	146.9	145.8	145.9	146.4
9DBA	138.0	154.2	150.3	153.7	152.6	153.7	153.2
PNDB	151.6	166.9	162.8	167.4	165.9	167.8	167.1
STOP: 0							

YF-12 INLET NOISE SUPPRESSION
 16123 NOV 29, 1979 TEST 9224
 YF-12 INLET NOISE SUPPRESSION

RUN 41
 SPIKE FORWARD
 BYPASS DOORS OPEN
 5000 RPM

RUN	23	24	25	26	27	28	29	30	31	32
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR10 F10 135. DEG
50	78.8	83.0	82.2	82.7	83.0	81.0	86.1	87.3		98.6
63	78.8	80.1	79.4	79.3	81.1	82.3	85.7	87.2		93.2
80	80.9	81.7	81.5	81.7	84.9	84.4	86.6	86.3		93.5
100	84.2	83.2	82.1	83.7	85.6	83.4	83.8	85.5		94.8
125	86.6	85.0	85.5	86.7	87.5	86.1	87.5	88.7		95.0
160	84.0	83.6	85.4	86.1	87.7	85.7	88.6	87.9		97.9
200	84.4	85.7	84.9	86.0	88.0	86.2	86.4	88.0		100.0
250	86.7	86.3	87.1	88.2	89.1	86.1	86.6	87.2		99.4
315	87.1	87.3	86.9	87.7	90.0	85.9	86.5	87.1		99.4
400	88.6	88.9	89.9	90.0	90.7	87.8	86.8	87.1		98.2
500	91.2	91.8	91.8	91.2	92.0	89.3	89.5	89.5		99.2
630	92.4	93.2	93.3	92.7	93.1	92.2	92.0	92.2		99.3
800	92.8	93.2	92.4	92.4	94.0	91.7	91.5	90.7		97.4
1K	91.8	91.6	91.8	91.2	94.6	91.5	91.0	90.1		96.4
1.25K	92.0	90.8	90.8	91.9	95.1	91.7	91.0	89.2		94.3
1.6K	92.7	91.7	92.0	93.0	95.8	92.9	91.1	89.6		93.2
2K	95.9	94.2	94.5	94.0	96.4	93.0	91.1	90.0		93.5
2.5K	104.4	102.6	102.3	101.6	97.6	98.7	93.1	91.2		94.1
3.15K	103.1	100.4	101.5	101.4	98.3	98.3	94.0	90.4		93.1
4K	97.4	96.0	95.9	94.7	98.2	93.4	89.7	88.0		91.3
5K	96.4	95.5	95.9	95.0	98.8	92.7	88.0	85.5		91.0
6.3K	95.4	93.0	93.4	93.0	98.1	90.4	87.9	85.0		90.3
8K	95.8	94.0	94.4	93.4	100.8	90.5	90.6	85.5		99.2
10K	91.2	90.6	91.1	90.0	100.7	87.4	84.5	82.3		93.9
63	84.4	86.5	86.0	86.2	88.8	88.1	90.6	92.0		99.0
125	89.9	88.8	89.3	90.4	91.8	89.4	91.8	92.6		100.9
250	91.0	91.3	91.2	92.2	93.9	90.9	91.2	92.2		104.4
500	95.8	96.4	96.7	96.2	96.8	94.9	94.7	94.9		103.7
1K	97.0	96.8	96.5	96.8	99.4	96.4	95.9	94.8		101.0
2K	105.2	103.5	103.3	102.7	101.4	100.4	96.6	95.1		98.4
4K	104.8	102.7	103.4	103.0	103.4	100.4	96.1	93.2		96.7
8K	99.3	97.5	94.0	97.2	104.8	94.4	93.1	91.4		100.8
LP-8	109.2	107.6	107.9	107.5	109.2	105.5	103.3	102.5		110.3
SIL	102.4	101.0	101.1	100.8	101.4	99.1	96.2	94.4		98.7
8DBA	109.9	108.1	108.4	107.9	109.0	105.8	102.7	101.1		107.1
PNOB	123.8	122.3	122.4	122.2	122.5	120.0	117.1	115.1		120.9

*S10P=0

YF-12 INLET NOISE SUPPRESSION
 11:32 NOV 07, 1979 TEST 915A
 YF-12 INLET NOISE SUPPRESSION
 RUN #1
 SPIKE FORWARD
 BYPASS DOORS OPEN
 5000 RPM

RUN	18	19	20	21	22	23
FREQ (HZ)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG
50	0.0	125.9	129.6	124.9	127.1	138.6
63	105.2	127.5	130.5	126.3	128.2	139.8
80	103.6	128.9	132.2	128.1	129.8	141.4
100	107.5	129.9	133.2	130.1	130.9	142.2
125	114.6	131.6	134.2	132.5	132.1	143.3
160	115.5	133.1	134.5	133.3	132.6	144.0
200	118.4	135.2	134.7	134.9	133.9	145.2
250	122.4	137.9	134.5	136.7	134.4	145.6
315	123.7	141.9	134.0	135.0	133.4	145.4
400	123.8	144.1	134.3	133.0	132.3	145.0
500	120.2	142.4	133.6	130.9	131.1	144.6
630	118.1	138.5	131.7	130.4	130.9	143.8
800	118.9	133.8	127.1	131.2	135.6	142.9
1K	119.0	132.0	124.1	132.5	132.6	141.7
1.25K	121.0	133.4	122.9	131.6	128.4	140.7
1.6K	122.4	131.7	124.5	131.4	130.3	139.4
2K	124.6	131.6	127.1	132.3	133.2	139.0
2.5K	133.9	138.8	136.6	138.9	138.8	142.2
3.15K	133.4	139.0	137.3	139.6	139.5	143.6
4K	127.1	133.9	130.8	133.5	133.6	138.3
5K	127.8	133.9	130.6	133.9	133.3	137.7
6.3K	128.3	134.7	132.0	134.7	134.0	139.1
8K	126.9	133.8	130.4	133.4	132.3	137.5
10K	126.0	132.6	129.5	133.1	131.3	136.6
63	0.0	132.4	135.7	131.4	133.3	144.8
125	118.4	136.5	138.8	136.9	136.7	148.0
250	126.8	143.9	139.2	140.4	138.7	150.2
500	126.1	147.0	138.1	136.3	136.3	149.3
1K	124.5	137.9	129.8	136.6	137.9	146.6
2K	134.7	140.2	137.3	140.4	140.3	145.2
4K	135.2	141.1	138.8	141.4	141.2	145.5
8K	131.9	138.6	135.5	138.6	137.5	142.6
LP-8	139.6	150.7	146.4	147.6	147.3	156.2
SIL	131.5	139.7	135.3	139.5	139.8	145.8
80BA	140.0	148.3	144.0	146.6	146.5	153.1
PND8	154.0	162.7	159.6	161.8	161.6	168.1
STOP 0						

YF-12 INLET NOISE SUPPRESSION
 13155 NOV 07, 1979 TEST 9154
 YF-12 INLET NOISE SUPPRESSION
 RUN #1
 SPIKE FORWARD
 BYPASS DOORS OPEN
 5000 RPM

RUN	24	25
FREQ (HZ)	TR 7 K14 0. DEG	TR 8 K12 0. DEG
50	118.3	125.6
63	120.2	125.6
80	120.9	125.7
100	122.4	125.7
125	123.5	125.6
160	125.0	125.7
200	126.6	127.1
250	128.4	128.6
315	130.6	128.5
400	132.8	128.4
500	136.8	127.8
630	139.4	129.0
800	136.6	130.1
1K	131.7	126.6
1.25K	131.6	125.5
1.6K	133.6	127.7
2K	134.7	130.6
2.5K	143.0	137.7
3.15K	144.8	140.0
4K	139.9	134.9
5K	139.4	134.5
6.3K	141.3	137.0
8K	140.0	136.5
10K	139.6	136.7
63	124.7	130.4
125	128.5	130.4
250	133.6	132.9
500	141.9	133.2
1K	138.8	132.7
2K	144.0	138.8
4K	146.8	142.0
8K	145.1	141.5
LP-8	151.2	146.6
SIL	143.2	137.8
BOBA	151.4	146.5
PNOB	165.7	161.2
STOP 0		

YF-12 INLET NOISE SUPPRESSION
 17105 DEC 03, 1979 TEST 9226
 YF-12 INLET NOISE SUPPRESSION
 RUN 47
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6000 RPM

BUN	34	35	36	37	38	39	40	41	42	43
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR10 F10 135. DEG
50	81.1	83.4	82.4	83.5	83.7	83.4	86.2			99.3
63	84.9	85.9	86.3	84.9	87.0	88.5	89.6			99.0
80	84.2	85.7	85.4	85.6	87.7	87.8	88.8			98.9
100	88.5	87.9	86.2	88.6	88.8	88.8	89.1			100.0
125	90.5	89.4	89.1	89.9	89.5	88.8	91.5			101.0
160	88.9	88.0	89.8	90.8	89.3	90.9	92.8			103.2
200	88.3	89.3	88.9	90.1	89.8	90.9	91.0			103.2
250	90.2	90.6	91.0	91.4	90.4	89.4	90.5			103.2
315	90.3	90.6	90.0	90.5	89.7	89.4	89.9			103.0
400	90.9	91.3	92.4	92.6	91.1	89.9	89.2			101.0
500	92.7	93.6	94.3	93.6	91.6	90.0	89.0			99.4
630	95.3	95.3	95.4	95.6	92.8	91.8	90.2			98.5
800	95.8	95.7	94.6	94.6	92.5	91.3	90.0			96.8
1K	93.8	93.6	92.5	92.3	90.9	90.4	89.6			97.0
1.25K	93.4	92.6	93.0	93.5	92.2	91.7	91.4			101.5
1.6K	96.6	94.8	94.9	95.1	93.0	92.8	90.8			99.4
2K	98.0	96.1	96.1	95.2	93.1	93.0	90.4			95.0
2.5K	102.4	100.8	99.9	98.3	95.7	95.1	90.6			93.9
3.15K	107.1	104.2	104.6	103.9	101.2	99.5	95.3			93.9
4K	102.6	101.9	101.7	100.7	99.1	98.7	94.9			94.4
5K	96.7	96.6	94.8	95.9	94.9	94.2	90.4			93.9
6.3K	96.0	93.8	93.9	93.2	92.0	90.4	88.2			90.9
8K	94.1	94.6	94.7	93.7	92.2	90.8	90.4			95.2
10K	90.8	90.7	91.0	90.0	88.4	88.0	87.0			99.9
63	88.5	89.9	89.3	89.5	91.2	91.8	93.2			103.8
125	94.2	93.3	93.4	94.6	94.0	94.4	96.1			106.4
250	94.7	95.0	94.8	95.5	94.8	94.8	95.3			107.9
500	98.1	98.5	99.0	98.9	96.7	95.4	94.3			104.6
1K	99.2	98.9	98.2	98.3	96.7	95.9	95.2			103.8
2K	104.5	102.8	102.3	101.2	98.9	98.5	95.4			101.5
4K	108.7	106.6	106.9	106.1	103.8	102.8	98.8			98.8
8K	99.7	98.1	98.2	97.4	96.9	94.7	94.5			101.6
LP-8	111.2	109.7	109.7	109.1	107.2	106.4	104.6			113.4
SIL	104.1	102.8	102.5	101.2	99.8	99.1	96.5			101.4
80BA	111.9	110.1	110.1	109.3	107.1	106.2	103.3			109.3
PNOB	124.6	124.7	124.9	124.3	122.2	121.1	118.3			122.8

YF-12 INLET NOISE SUPPRESSION
 16:30 NOV 07, 1979 TEST 915A
 YF-12 INLET NOISE SUPPRESSION
 RUN #7
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6000-RPM

RUN	30	31	32	33	34	35
FREQ (HZ)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG
50	102.7	128.1	131.2	126.1	128.4	137.1
63	106.3	129.5	132.4	127.4	129.8	138.2
80	105.7	130.9	133.7	129.9	131.5	139.5
100	110.9	132.1	135.2	133.6	133.1	140.3
125	118.5	133.9	136.2	136.1	134.6	141.8
160	118.6	135.4	137.0	137.3	135.5	141.8
200	122.3	137.5	138.6	138.9	137.0	142.7
250	127.2	140.1	139.0	140.0	137.4	143.6
315	127.3	143.6	139.4	138.6	137.2	144.1
400	127.3	146.6	139.9	136.6	136.4	144.7
500	123.7	145.6	138.6	135.0	135.4	144.4
630	122.6	142.1	135.6	134.2	135.4	144.2
800	123.6	137.7	131.9	135.5	140.7	143.5
1K	122.9	136.0	128.8	137.0	137.3	142.4
1.25K	123.7	137.1	127.1	136.5	133.2	141.7
1.6K	124.1	135.8	128.6	136.6	135.0	140.7
2K	126.3	135.1	130.3	136.0	137.0	139.9
2.5K	131.0	137.1	133.3	137.6	137.7	139.5
3.15K	135.8	141.8	137.6	142.0	141.4	140.8
4K	133.3	141.4	138.0	141.2	141.2	142.1
5K	129.4	137.9	134.7	138.2	137.5	140.6
6.3K	128.7	136.9	133.2	136.8	135.8	139.1
8K	127.6	136.4	132.7	136.3	135.0	138.0
10K	126.2	134.7	131.0	135.2	133.3	137.0
63	109.9	134.4	137.3	132.9	134.9	143.2
125	121.9	138.8	140.9	140.7	139.3	146.1
250	130.9	145.9	143.8	144.0	142.0	148.3
500	129.7	149.9	143.1	140.2	140.5	149.2
1K	128.2	141.7	134.5	141.2	142.9	147.3
2K	132.9	140.8	135.9	141.5	141.4	144.8
4K	138.3	145.4	141.8	145.5	145.2	146.0
8K	132.4	140.9	137.2	140.9	139.6	142.9
LP-8	141.3	153.4	149.5	151.0	150.6	155.5
SIL	133.1	142.7	137.4	142.7	143.2	146.1
80DBA	141.4	151.3	146.4	149.8	149.7	153.2
PNDB	156.2	165.5	161.7	164.8	164.4	167.5

YF-12 INLET NOISE SUPPRESSION
 11:49 NOV 08, 1979 TEST 9154
 YF-12 INLET NOISE SUPPRESSION
 RUN 47
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6000 RPM

RUN	36	37
FREQ (HZ)	TR 7 K14 0. DEG	TR 8 K12 0. DEG
50	120.0	119.0
63	121.5	120.2
80	122.5	121.5
100	124.1	123.2
125	125.7	125.5
160	127.0	126.9
200	128.6	128.9
250	132.0	131.7
315	134.3	133.6
400	136.0	133.4
500	141.4	133.0
630	144.4	137.2
800	141.9	136.8
1K	138.2	133.1
1.25K	137.6	133.7
1.6K	140.3	134.8
2K	139.6	135.9
2.5K	142.9	138.9
3.15K	151.5	148.3
4K	150.6	147.0
5K	147.9	143.4
6.3K	147.1	142.5
8K	146.4	142.6
10K	145.3	141.7
63	126.2	125.1
125	130.5	130.2
250	137.0	136.6
500	146.6	139.8
1K	144.4	139.6
2K	146.0	141.7
4K	155.0	151.4
8K	151.1	147.1
LP-8	157.5	153.6
SIL	148.5	144.3
80BA	157.8	154.0
PNDB	171.9	168.3
STBF 0		

YF-12 INLET NOISE SUPPRESSION
 18140 DEC 03, 1979 TEST 9224
 YF-12 INLET NOISE SUPPRESSION
 RUN 49
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6200 RPM

RUN	45	46	47	48	49	50	51	52	53	54
FREQ (HZ)	TR 1 F1 0° DEG	TR 2 F2 10° DEG	TR 3 F3 20° DEG	TR 4 F4 30° DEG	TR 5 F5 40° DEG	TR 6 F6 50° DEG	TR 7 F7 60° DEG	TR 8 F8 70° DEG	TR 9 F9 80° DEG	TR 10 F10 90° DEG
50	81.5	83.9	83.2	84.3	84.6	84.2	87.2	88.7	89.7	101.2
63	85.9	86.9	86.6	86.1	87.8	89.2	90.2	92.4	93.0	101.0
80	86.0	87.5	87.5	87.5	89.4	89.3	90.3	92.5	93.2	100.7
100	89.3	89.0	87.2	89.2	89.5	89.8	90.4	93.6	93.2	101.9
125	90.9	90.0	89.9	90.9	90.3	90.0	92.9	94.5	92.6	102.6
160	90.2	89.4	91.1	91.9	90.6	92.0	93.4	92.3	91.1	104.9
200	89.1	90.1	90.2	91.2	91.1	92.1	92.1	93.0	92.5	103.7
250	91.6	91.3	91.8	91.9	90.8	90.8	91.2	92.4	92.9	103.3
315	91.1	91.8	91.1	91.4	90.9	91.0	90.8	91.8	92.0	103.1
400	91.6	91.8	92.8	93.3	91.8	90.6	90.4	90.9	91.3	101.3
500	93.0	93.9	94.8	94.1	92.2	90.6	89.8	90.3	90.4	99.8
630	95.2	95.9	95.8	95.8	93.3	91.6	90.4	90.8	91.3	98.6
800	96.6	96.8	95.0	95.1	93.2	91.6	90.7	90.6	91.2	97.9
1K	94.3	93.7	92.7	92.8	91.7	91.0	90.3	90.9	91.8	98.0
1.25K	94.2	93.2	92.9	94.0	92.5	92.0	91.6	91.6	91.9	99.8
1.6K	97.4	96.0	95.8	95.7	93.9	94.0	92.8	92.7	94.8	102.0
2K	98.1	96.5	96.4	95.6	93.4	93.6	91.0	91.2	90.6	96.7
2.5K	101.2	99.4	98.5	97.3	94.7	94.4	90.7	91.3	89.2	94.9
3.15K	104.7	101.6	101.9	101.5	98.6	97.0	93.5	91.1	88.4	94.0
4K	101.4	100.6	100.2	99.3	97.3	97.0	93.6	92.2	88.6	94.0
5K	95.8	95.5	95.9	95.0	93.9	93.3	90.0	89.2	87.0	94.3
6.3K	94.2	92.1	92.1	91.5	90.3	88.9	87.4	86.1	84.0	90.9
8K	94.4	93.1	93.0	92.0	90.4	89.2	89.3	88.7	87.6	93.5
10K	89.2	89.8	89.5	88.5	87.0	86.6	86.1	86.8	86.9	97.9
63	89.7	91.1	90.9	91.0	92.4	92.9	94.3	96.3	97.0	105.7
125	94.9	94.3	94.5	95.6	94.9	95.5	97.2	98.4	97.2	108.1
250	95.5	95.9	95.9	96.3	95.7	96.0	96.2	97.2	97.3	108.2
500	98.3	99.0	99.4	99.3	97.2	95.7	95.0	95.4	95.8	104.8
1K	99.9	99.7	98.5	98.8	97.3	96.3	95.7	95.8	97.2	103.4
2K	104.0	102.3	101.8	101.0	98.8	98.4	96.4	96.6	97.0	103.7
4K	106.8	104.7	104.8	104.1	101.8	100.9	97.5	95.8	92.8	98.9
8K	97.9	96.5	96.6	95.7	94.3	93.2	92.5	92.1	91.2	99.8
LP-8	110.1	108.8	108.7	108.3	106.5	105.9	104.9	105.3	105.2	114.2
5IL	103.6	102.2	101.7	101.3	99.3	98.7	96.5	96.1	95.7	102.0
80BA	110.5	108.9	108.7	108.1	106.0	105.3	103.0	102.6	102.5	109.7
PNDB	125.2	123.3	123.4	123.0	120.9	119.9	117.8	117.3	116.1	123.8
*5TOPe.0										

YF-12 INLET NOISE SUPPRESSION
 08137 NOV 08, 1979 TEST 9154
 YF-12 INLET NOISE SUPPRESSION
 RUN 49
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6200 RPM

RUN	41	42	43	44	45	46
FREQ (HZ)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG
50	114.4	128.4	131.9	126.1	133.8	142.6
63	115.0	129.4	132.3	127.5	135.0	143.9
80	114.9	131.1	133.7	129.7	136.8	144.9
100	116.3	132.7	135.3	133.7	138.8	146.1
125	119.7	134.0	136.4	136.1	140.1	147.4
160	120.9	135.8	137.2	138.3	141.0	147.4
200	123.6	137.9	139.3	139.8	142.7	148.0
250	127.9	140.5	139.9	140.4	143.1	148.6
315	127.8	143.9	140.3	139.1	142.8	149.3
400	127.8	146.9	141.0	137.0	142.1	149.9
500	124.4	146.2	139.7	135.4	141.1	149.7
630	123.3	142.7	136.5	134.8	141.0	149.6
800	125.1	138.3	132.6	136.3	146.5	149.1
1K	122.8	136.5	129.4	137.7	143.2	147.8
1.25K	123.6	137.8	128.1	137.2	139.1	147.4
1.6K	124.6	136.2	129.0	136.9	140.6	146.4
2K	126.8	135.5	130.6	136.4	142.7	145.7
2.5K	129.6	136.5	132.6	137.3	142.7	145.4
3.15K	133.0	139.5	135.3	139.8	144.4	145.3
4K	131.4	139.7	136.0	139.5	144.4	146.2
5K	128.5	137.3	133.7	137.6	141.8	145.7
6.3K	127.2	136.1	132.1	136.0	140.0	144.7
8K	126.1	135.4	131.3	135.2	138.9	143.2
10K	124.6	134.1	129.8	134.4	137.4	142.3
<hr/>						
63	119.5	134.6	137.5	132.8	140.2	148.7
125	124.1	139.1	141.1	141.2	144.8	151.8
250	131.6	146.2	144.6	144.6	147.6	153.4
500	130.4	150.4	144.2	140.6	146.2	154.5
1K	128.7	142.3	135.2	141.9	148.7	152.9
2K	132.3	140.9	135.8	141.7	146.9	150.6
4K	136.1	143.7	139.9	143.8	148.5	150.6
8K	130.8	140.1	136.0	140.0	143.7	148.3
<hr/>						
LP-8	140.3	153.5	149.8	150.8	155.5	160.9
SIL	132.4	142.3	137.0	142.5	148.0	151.4
8DBA	139.9	151.0	146.0	149.2	154.3	158.5
PND8	154.8	164.7	160.9	163.8	168.5	172.4

YF=12 INLET NOISE SUPPRESSION
 08:37 NOV 08, 1979 TEST 9156
 YF=12 INLET NOISE SUPPRESSION

RUN 49
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6200 RPM

RUN 47			48		
FREQ (HZ)	TR 7 K14 Q. DEG	TR 8 K12 Q. DEG			
50	119.9	119.0			
63	121.8	120.3			
80	122.8	121.6			
100	124.8	123.8			
125	126.0	125.9			
160	127.5	127.2			
200	129.1	129.2			
250	132.3	132.0			
315	134.7	134.0			
400	136.4	134.0			
500	142.1	133.9			
630	145.1	137.1			
800	142.7	139.1			
1K	139.2	134.7			
1.25K	138.5	137.4			
1.6K	141.6	135.5			
2K	141.1	137.7			
2.5K	144.0	141.6			
3.15K	150.0	143.4			
4K	151.5	146.5			
5K	148.1	143.5			
6.3K	147.2	142.0			
8K	146.7	142.0			
10K	145.3	141.0			
63	126.4	125.2			
125	131.0	130.6			
250	137.4	136.9			
500	147.2	140.0			
1K	145.3	142.2			
2K	147.2	143.8			
4K	154.9	149.5			
8K	151.3	146.4			
LP=8	157.7	152.8			
SIL	149.1	145.2			
8DBA	157.9	153.0			
PNOB	172.1	167.4			
STOP 0					

YF-12 INLET NOISE SUPPRESSION
 08:52 NOV 08, 1979 TEST 915A
 YF-12 INLET NOISE SUPPRESSION
 RUN 51
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6400 RPM

RUN	52	53	54	55	56	57
FREQ (HZ)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG
50	114.2	128.5	131.8	126.2	134.0	138.0
63	114.8	129.8	132.4	127.8	135.5	139.2
80	114.7	131.4	133.9	129.5	137.0	140.3
100	116.2	132.8	135.6	134.1	139.1	141.3
125	119.4	134.2	136.8	136.3	140.5	142.8
160	121.3	136.0	137.5	138.8	141.4	142.7
200	123.9	138.3	139.7	140.2	143.3	143.3
250	128.2	140.7	140.2	140.7	143.6	143.9
315	128.1	144.0	141.0	139.2	143.4	144.6
400	128.0	147.2	141.5	137.5	142.6	145.6
500	124.7	146.3	140.5	136.1	141.6	145.3
630	123.1	142.9	136.8	135.3	141.4	145.4
800	124.9	138.5	137.9	136.8	147.1	144.8
1K	123.4	137.1	129.9	138.3	143.7	143.4
1.25K	124.3	138.2	128.4	137.7	139.8	143.3
1.6K	124.9	136.6	129.2	137.3	141.1	142.2
2K	126.7	136.0	130.7	136.6	143.0	141.5
2.5K	128.5	136.2	131.9	136.8	142.5	141.0
3.15K	130.3	137.6	133.0	137.7	142.6	140.4
4K	129.0	137.8	133.5	137.6	142.3	140.3
5K	127.0	136.2	132.2	136.4	140.6	140.3
6.3K	125.8	135.2	130.9	135.1	139.0	139.8
8K	124.5	134.6	129.9	134.2	137.8	138.5
10K	123.3	133.6	128.7	133.5	136.5	137.6
63	119.3	134.8	137.5	132.8	140.4	144.0
125	124.2	139.3	141.8	141.6	145.2	147.1
250	131.9	146.4	145.1	144.9	148.2	148.7
500	130.5	150.6	144.8	141.2	146.7	150.2
1K	129.0	142.7	135.6	142.4	149.2	148.7
2K	131.7	141.1	135.5	141.7	147.0	146.4
4K	133.8	142.0	137.7	142.1	146.7	145.1
8K	129.4	139.3	134.7	139.1	142.7	143.5
LP-8	139.3	153.5	149.9	150.7	155.5	156.3
SIL	131.5	141.9	136.3	142.1	147.7	146.7
BDDB	138.6	150.8	145.6	148.7	154.0	154.0
PNDB	153.2	163.9	159.8	162.9	167.7	167.4

Add 5.0 dB to all values of K10

YF-12 INLET NOISE SUPPRESSION
 08:52 NOV 08, 1979 TEST 9154
 YF-12 INLET NOISE SUPPRESSION
 RUN 51
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6400 RPM

RUN	58	60
FREQ	TR 7 K14	TR 8 K12
(HZ)	0. DEG	0. DEG
50	120.3	119.2
63	121.7	120.8
80	122.8	122.5
100	125.1	124.4
125	126.3	126.2
160	127.5	127.5
200	129.5	129.9
250	132.4	132.4
315	135.3	134.5
400	136.9	134.7
500	142.8	134.5
630	145.6	137.2
800	143.4	140.0
1K	140.5	142.0
1.25K	139.2	140.3
1.6K	142.0	137.1
2K	141.5	137.4
2.5K	144.0	139.8
3.15K	148.5	141.6
4K	151.0	144.9
5K	147.3	142.7
6.3K	146.7	141.5
8K	146.2	141.1
10K	144.7	140.3
63	126.5	125.8
125	131.1	131.0
250	137.8	137.4
500	147.8	140.4
1K	146.2	145.6
2K	147.4	143.1
4K	154.0	148.0
8K	150.7	145.8
LP-8	157.3	152.5
SIL	149.2	145.6
80dB	157.4	152.5
PNOB	171.7	166.7
*STBP= 0		

YF-12 INLET NOISE SUPPRESSION
 18113 DEC 04, 1979 TEST 9224
 YF-12 INLET NOISE SUPPRESSION
 RUN 53
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6600 RPM

RUN	67	68	69	70	71	72	73	74	75	76
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR 10 F10 135. DEG
50	87.9	90.0	89.5	90.5	90.8	90.3	92.6	94.9	98.1	110.1
63	91.0	91.9	91.7	91.3	92.6	93.7	94.6	96.7	99.7	109.4
80	95.8	97.9	96.5	96.7	98.3	98.4	98.3	101.9	104.3	110.3
100	94.8	95.4	93.6	95.4	95.9	96.4	96.0	100.2	101.9	110.7
125	97.3	96.2	95.8	97.4	96.4	95.9	99.3	100.9	101.9	111.2
160	98.4	96.3	98.0	98.1	96.9	98.7	99.9	99.1	101.7	111.6
200	97.5	96.9	97.4	97.0	98.3	98.8	98.5	100.3	103.6	111.5
250	95.4	94.6	94.7	95.9	96.0	96.1	96.6	99.0	101.9	110.3
315	93.9	94.9	94.5	95.8	96.1	95.4	95.1	97.5	100.4	109.8
400	93.1	93.8	95.1	95.7	94.0	93.5	94.2	95.8	99.3	107.4
500	94.1	94.8	95.8	95.5	93.9	93.6	92.9	95.0	98.5	106.4
630	96.0	96.5	94.5	96.5	94.7	94.1	93.3	95.1	98.6	105.1
800	95.9	96.4	95.4	96.1	95.1	94.3	93.6	95.3	99.3	104.0
1K	94.3	94.2	93.7	94.0	93.8	93.0	93.1	94.2	98.1	102.5
1.25K	94.6	94.2	94.1	94.6	93.3	93.2	93.3	93.9	98.8	101.5
1.6K	97.2	96.1	96.4	96.2	94.9	95.9	93.7	95.5	101.5	102.1
2K	97.3	96.2	96.5	95.9	94.2	94.4	92.1	93.5	97.5	99.2
2.5K	98.2	96.9	94.7	96.0	93.9	94.4	91.1	93.5	94.9	97.1
3.15K	98.7	96.2	94.9	96.5	94.4	93.4	91.0	91.4	92.9	95.8
4K	96.6	96.1	95.8	94.7	93.4	93.4	90.6	91.7	92.2	94.9
5K	92.7	92.6	93.0	92.0	91.5	91.1	87.8	89.4	90.9	94.4
6.3K	90.8	89.0	89.1	88.5	87.9	86.9	85.2	86.4	87.7	91.8
8K	91.1	90.2	90.0	89.0	87.8	86.9	85.8	87.9	89.4	92.8
10K	86.4	87.0	84.9	85.9	84.8	84.8	82.0	86.0	88.7	94.3
63	97.5	99.4	98.3	98.5	99.9	100.7	100.6	103.7	106.3	114.7
125	101.8	100.8	100.9	101.9	101.2	102.0	103.5	104.9	106.6	116.0
250	100.6	100.4	100.5	101.0	101.7	101.8	101.7	103.9	104.9	115.4
500	99.4	99.9	100.6	100.7	99.0	98.5	98.2	100.1	103.4	111.2
1K	99.8	99.8	99.2	99.8	98.8	98.3	98.1	99.3	103.5	107.6
2K	102.3	101.2	101.3	100.8	99.1	99.0	97.2	99.0	103.6	108.2
4K	101.4	100.0	100.3	99.5	98.0	97.6	94.8	95.7	96.9	99.8
8K	94.6	93.7	93.6	92.8	91.9	91.1	89.4	91.6	93.4	97.8
LP-8	109.3	108.8	108.9	109.0	108.4	108.5	108.5	110.4	113.3	121.0
SIL	101.2	100.3	100.3	100.0	98.7	98.4	96.7	98.0	101.3	104.0
0DBA	107.7	106.8	104.9	104.6	105.3	105.1	103.7	105.2	108.9	113.6
PNOB	122.3	121.1	121.3	121.1	119.8	119.4	117.9	119.6	122.8	127.3
dBTP @ 0										

YF-12 INLET NOISE SUPPRESSION
 11:42 NOV 08, 1979 TEST 915A
 YF-12 INLET NOISE SUPPRESSION
 RUN 53
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6600 RPM

RUN	64	65	66	67	68	69
FREQ (HZ)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG
50	107.2	128.8	131.9	126.4	128.9	133.2
63	109.6	130.0	132.6	128.1	130.6	134.5
80	108.5	131.3	133.7	130.3	132.3	135.8
100	112.9	132.7	135.3	134.3	134.2	137.0
125	118.6	134.5	136.3	136.4	135.7	138.1
160	121.2	136.2	137.6	139.6	137.1	138.3
200	124.3	138.4	139.8	141.1	138.6	138.9
250	128.8	140.7	140.4	141.1	139.0	139.2
315	128.6	144.3	141.5	139.9	138.7	140.0
400	128.3	147.3	142.4	138.1	138.3	141.2
500	125.4	146.7	141.1	136.5	137.0	140.9
630	123.4	143.3	137.6	135.9	136.9	140.7
800	124.9	138.9	133.3	137.2	142.6	140.3
1K	123.2	137.5	130.2	138.8	139.2	139.2
1.25K	124.6	138.6	128.6	138.3	135.4	139.0
1.6K	125.4	137.0	129.5	137.7	136.5	138.0
2K	126.7	136.4	130.9	136.8	138.3	137.4
2.5K	128.0	136.3	131.7	136.8	137.5	136.9
3.15K	128.3	136.6	131.6	136.6	136.6	136.1
4K	127.1	136.4	131.5	136.2	135.8	135.5
5K	126.0	135.4	130.7	135.5	134.5	135.4
6.3K	125.1	134.9	129.9	134.5	133.4	135.1
8K	123.8	134.3	129.0	133.7	132.3	134.0
10K	122.6	133.7	127.9	133.1	131.1	133.2
63	113.3	134.9	137.6	133.3	135.6	139.4
125	123.5	139.4	141.3	142.1	140.6	142.6
250	132.5	146.6	145.4	145.5	143.6	144.2
500	130.9	150.9	145.6	141.7	142.2	145.7
1K	129.1	143.2	135.9	142.9	144.8	144.3
2K	131.6	141.3	135.5	141.9	142.3	142.2
4K	132.0	140.9	136.0	140.9	140.5	140.4
8K	128.7	139.1	133.8	138.6	137.1	138.9
LP-8	138.9	153.7	150.2	150.9	150.7	151.9
SIL	130.9	141.8	135.8	141.9	142.5	142.3
80DBA	137.9	150.9	145.6	148.7	149.0	149.6
PNDB	152.1	163.5	159.2	162.5	162.4	163.0

Add 10.0 dB to all values at K10

YF-12 INLET NOISE SUPPRESSION
 1142 NOV 08, 1979 TEST 915A
 YF-12 INLET NOISE SUPPRESSION
 RUN 53

SPIKE FORWARD
 BYPASS DOORS OPEN
 6600 RPM

RUN	70	71
FREQ (HZ)	TR 7 K14 0. DEG	TR 8 K12 0. DEG
50	119.8	119.1
63	121.9	120.3
80	123.1	122.2
100	124.9	124.7
125	126.4	126.2
160	127.6	127.6
200	129.9	129.9
250	132.8	132.6
315	135.9	135.1
400	137.3	135.2
500	143.7	135.3
630	145.9	138.4
800	144.0	140.3
1K	140.6	136.1
1.25K	139.9	136.5
1.6K	142.5	135.9
2K	143.4	138.0
2.5K	144.0	138.9
3.15K	146.7	140.4
4K	148.5	143.0
5K	146.6	141.5
6.3K	145.9	140.7
8K	145.5	140.2
10K	144.2	139.6
63	126.6	125.5
125	131.2	131.1
250	138.3	137.8
500	148.3	141.4
1K	146.7	142.8
2K	148.1	142.5
4K	152.1	146.6
8K	150.0	145.0
LP-8	156.6	151.3
SIL	149.0	144.0
80BA	156.5	151.2
PN08	170.5	165.4

STOP 0

YF-12 INLET NOISE SUPPRESSION
 10157 APR 28, 1960 TEST 10645
 YF-12 INLET NOISE SUPPRESSION
 RUN 57
 SPIKE MIDWAY
 BYPASS DOORS OPEN
 5600 RPM

RUN	57		58		59		60		61		62		63		64		65		66	
	FREQ (Hz)	TR 1 F1 0° DEG	TR 2 F2 10° DEG	TR 3 F3 20° DEG	TR 4 F4 20° DEG	TR 5 F5 40° DEG	TR 6 F6 50° DEG	TR 7 F7 70° DEG	TR 8 F8 90° DEG	TR 9 F9 110° DEG	TR 10 F10 135° DEG									
50	80.3	83.0	81.6	82.9	83.4	82.9	86.5	87.5	90.5	97.8										
63	83.2	84.3	83.4	83.6	86.2	87.7	89.2	90.6	93.8	96.7										
80	82.7	84.6	83.5	84.2	86.9	87.7	87.8	90.2	92.7	96.9										
100	85.9	85.7	83.6	85.7	87.1	88.0	88.6	90.9	91.8	98.3										
125	86.5	85.4	84.6	86.5	86.4	86.1	88.8	90.4	91.5	98.4										
160	86.6	85.6	84.2	87.4	86.4	87.7	90.6	89.7	89.6	100.2										
200	86.6	87.7	86.3	87.9	88.0	89.2	88.4	89.7	90.9	101.7										
250	89.3	88.7	88.7	89.7	89.5	88.1	88.8	89.2	91.8	101.4										
315	89.7	89.7	88.1	89.2	89.1	89.0	88.4	89.0	91.2	101.1										
400	90.6	90.3	90.7	91.7	90.7	89.2	88.1	88.1	90.3	99.8										
500	92.0	92.8	92.7	92.6	91.2	89.3	87.8	87.5	89.4	98.4										
630	94.8	95.4	94.1	94.0	93.9	91.2	90.9	88.9	90.8	97.1										
800	98.9	96.8	95.2	94.2	92.4	90.3	88.5	88.2	90.5	94.5										
1K	95.1	95.0	92.7	92.1	90.7	90.0	88.4	88.3	90.5	93.8										
1.25K	94.6	93.9	92.1	92.5	91.0	90.0	89.2	88.6	91.7	97.6										
1.6K	96.1	94.7	93.5	93.6	91.7	91.3	89.0	88.0	89.7	93.1										
2K	97.6	96.0	95.4	94.5	92.3	91.9	89.3	88.7	90.0	90.7										
2.5K	102.0	101.5	100.4	99.4	96.3	94.9	89.4	89.1	88.9	90.5										
3.15K	104.5	104.0	102.9	103.0	100.6	98.0	93.0	89.4	88.8	91.4										
4K	99.7	99.3	98.4	97.9	95.8	91.0	89.1	89.1	87.6	90.7										
5K	95.6	95.8	95.3	94.6	94.0	92.3	87.2	86.2	85.8	89.5										
6.3K	94.9	94.1	92.8	92.6	92.0	89.6	86.2	84.6	84.6	88.7										
8K	94.6	94.1	93.0	92.6	91.7	89.9	89.1	88.4	89.7	96.1										
10K	90.1	90.8	89.7	89.0	88.0	87.2	84.9	85.4	86.7	98.3										
63	87.0	88.8	87.7	88.4	90.5	91.2	92.7	94.4	97.3	101.9										
125	91.1	90.4	89.7	91.3	91.4	92.1	94.2	95.1	98.8	103.8										
250	93.5	93.6	92.6	93.8	93.7	93.6	93.3	94.1	96.1	106.2										
500	97.6	98.1	97.6	97.6	96.9	94.8	93.9	93.0	95.0	103.3										
1K	101.4	100.2	98.3	97.8	96.2	94.9	93.5	93.1	95.7	100.4										
2K	104.1	103.2	102.2	101.4	98.8	97.8	94.0	93.4	94.3	96.3										
4K	106.1	105.7	104.8	104.7	102.8	100.7	95.8	93.2	92.3	95.4										
8K	98.5	98.0	94.9	94.4	95.7	93.8	91.9	91.2	92.3	100.6										
LP-B	109.9	109.3	108.3	108.0	106.4	105.0	102.8	102.6	104.2	111.2										
SIL	103.9	103.0	101.7	101.3	99.2	97.8	94.4	93.3	94.1	97.4										
ODBA	110.6	109.8	108.7	108.4	106.4	104.7	101.2	100.0	101.1	106.6										
PNDB	124.8	124.4	123.3	123.3	121.5	119.7	116.3	114.7	115.2	120.1										
*STOP 0																				

VF-12 INLET NOISE SUPPRESSION
 08131 FEB 07, 80 TEST 9950
 VF-12 INLET NOISE SUPPRESSION
 RUN 59
 SPIKE MIDWAY
 BYPASS DOORS OPEN
 6200 RPM

RUN	48	49	50	51	52	53	54	55	56	57
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR10 F10 135. DEG
50	83.5	85.1	83.5	84.8	85.6	85.3	88.0	89.4	92.2	101.6
63	85.7	86.8	85.8	88.7	88.7	89.7	90.3	92.4	95.5	100.8
80	85.4	87.3	84.3	86.6	89.2	89.3	89.6	92.2	95.3	100.6
100	87.9	87.8	85.5	87.8	89.2	89.1	89.2	93.0	94.9	101.4
125	89.3	88.5	87.5	89.5	89.7	89.2	92.2	94.1	94.8	102.6
160	89.4	89.4	88.9	90.1	89.3	90.9	93.1	92.1	93.5	104.6
200	88.8	89.6	88.7	90.3	91.0	91.6	92.0	92.9	94.8	104.0
250	91.4	90.6	90.6	91.4	91.4	90.7	91.0	92.4	95.2	103.4
315	91.5	92.1	90.5	91.6	91.9	92.0	90.9	92.0	94.5	103.1
400	92.2	92.0	92.6	93.5	92.7	91.0	90.8	91.1	93.7	101.6
500	93.5	94.5	94.0	94.2	92.6	91.1	90.0	90.6	92.9	99.8
630	95.5	96.4	95.4	95.4	94.2	92.2	90.7	90.8	93.7	98.4
800	97.3	97.9	96.4	95.1	94.6	92.5	91.1	90.8	93.8	97.9
1K	96.6	95.9	93.6	92.7	92.7	91.8	90.6	91.0	94.4	98.1
1.25K	96.1	94.9	93.6	94.4	93.2	92.5	91.7	91.8	96.5	100.0
1.6K	97.7	96.3	94.9	95.4	94.0	93.9	92.6	92.7	97.5	102.1
2K	98.1	96.5	95.7	96.6	93.9	93.6	91.0	91.2	93.2	96.9
2.5K	101.1	100.2	98.9	98.2	95.7	94.9	90.8	91.4	91.7	95.0
3.15K	104.0	103.3	101.8	101.6	99.4	97.5	92.9	90.9	91.0	94.0
4K	100.2	100.0	99.2	98.8	97.7	96.8	92.1	91.7	91.2	94.1
5K	95.2	95.2	94.8	94.8	94.3	93.3	89.5	89.0	89.4	94.4
6.3K	93.4	92.8	91.3	91.5	91.0	89.0	86.7	85.9	86.6	91.1
8K	93.8	93.4	92.2	91.9	91.1	89.5	89.0	88.6	90.8	93.6
10K	89.0	90.0	88.7	88.4	87.5	86.8	85.8	86.8	89.3	97.9
63	89.7	91.3	90.1	90.5	92.7	93.2	94.2	96.3	99.3	105.8
125	93.7	93.0	92.3	94.0	94.2	94.4	94.5	97.9	99.2	107.9
250	95.5	95.6	94.8	95.2	96.2	96.2	96.1	97.2	99.6	108.3
500	98.7	99.4	98.9	99.2	98.0	96.2	95.3	95.4	98.2	104.9
1K	101.5	101.2	99.1	99.2	98.4	97.0	95.9	96.0	99.9	103.6
2K	103.0	102.9	101.7	101.4	99.3	99.0	96.2	96.6	99.6	103.8
4K	105.9	105.4	104.2	104.0	102.4	101.0	96.9	95.4	95.4	98.9
8K	97.3	97.1	95.7	95.4	94.9	93.4	92.2	92.0	93.7	99.9
LP-8	109.9	109.4	108.2	108.2	107.1	106.1	104.7	105.2	107.6	114.2
51L	103.8	103.2	101.7	101.5	100.0	99.0	96.3	96.0	98.3	102.1
80BA	110.2	109.6	108.4	108.2	106.7	105.6	102.8	102.6	105.1	109.8
PNDB	124.8	124.3	123.0	123.0	121.5	120.2	117.4	117.1	118.7	123.9
56TBP-0										

-----YF-12 INLET NOISE SUPPRESSION-----
 17128 FEB 06, '80 TEST 9950
 YF-12 INLET NOISE SUPPRESSION
 RUN 60
 SPIKE MIDWAY
 BYPASS DOORS OPEN
 4400 RPM

FREQ (HZ)	TR 1 F1 0° DEG	TR 2 F2 10° DEG	TR 3 F3 20° DEG	TR 4 F4 30° DEG	TR 5 F5 40° DEG	TR 6 F6 50° DEG	TR 7 F7 70° DEG	TR 8 F8 90° DEG	TR 9 F9 110° DEG	TR 10 F10 135° DEG
50	82.8	85.5	84.4	86.0	86.8	86.9	89.2	91.0	92.3	103.4
63	86.5	87.2	87.0	87.0	89.1	90.2	91.2	92.4	94.6	103.1
80	87.4	89.5	88.5	88.7	91.1	90.9	91.6	94.1	95.5	102.9
100	89.3	89.0	86.9	89.3	90.5	90.6	90.7	95.0	98.2	104.2
125	91.1	90.1	89.3	91.5	91.3	91.1	94.0	95.9	98.1	104.5
160	90.9	89.6	90.5	91.4	90.4	92.4	94.7	93.8	93.6	106.4
200	90.0	90.1	89.9	91.3	92.1	92.8	92.7	94.1	94.9	106.3
250	92.2	91.4	91.1	92.1	92.1	91.4	92.1	94.1	95.1	104.4
315	92.2	93.0	91.5	92.9	93.0	93.0	92.0	93.4	94.1	104.4
400	92.9	92.9	93.3	94.3	93.3	91.6	91.7	92.2	93.5	102.5
500	94.4	95.0	94.7	94.7	93.2	92.1	91.1	91.9	93.0	101.1
630	95.9	96.4	95.7	95.9	94.5	92.9	91.3	91.9	93.4	100.3
800	97.2	98.3	95.7	96.1	94.9	93.9	91.8	91.9	93.8	99.3
1K	96.5	96.0	94.6	94.8	93.4	92.4	92.6	93.0	94.2	99.2
1.25K	96.1	95.2	94.0	94.7	93.3	93.0	92.5	92.5	95.3	99.6
1.6K	97.6	96.1	94.7	94.1	94.5	94.5	93.8	94.4	99.1	103.4
2K	97.6	96.2	95.2	95.5	94.1	94.1	91.9	92.1	94.0	99.4
2.5K	99.1	98.1	97.0	94.7	94.9	94.4	91.0	92.3	92.6	94.2
3.15K	100.7	99.9	98.5	98.4	96.5	95.0	91.4	90.9	89.7	94.9
4K	98.0	97.7	94.7	94.3	95.4	94.8	91.2	91.8	89.8	94.6
5K	93.3	93.4	92.9	93.0	92.7	91.8	88.9	89.1	88.4	94.7
6.3K	91.0	90.4	88.9	89.2	89.0	87.4	86.2	86.0	85.3	91.7
8K	91.5	91.1	89.9	89.8	89.1	87.9	87.9	88.4	88.2	93.2
10K	86.9	87.9	86.6	86.5	85.9	85.4	84.9	86.6	87.6	96.4
63	90.7	92.6	91.7	92.1	94.1	94.3	95.6	97.8	99.1	107.9
125	95.3	94.4	93.9	95.7	95.5	94.2	98.2	99.7	99.5	109.9
250	96.4	96.4	95.7	94.9	97.2	97.2	97.1	98.7	99.5	109.9
500	99.3	99.8	99.4	99.8	98.5	97.0	96.2	96.8	98.1	106.2
1K	101.4	101.5	99.6	100.0	98.7	97.9	97.1	97.3	99.2	104.1
2K	102.9	101.7	100.6	100.9	99.3	99.2	92.2	92.8	100.9	105.8
4K	103.0	102.5	101.4	101.2	99.9	98.9	95.7	95.5	94.1	99.5
8K	95.0	94.8	93.4	93.8	93.0	91.9	91.3	91.9	89.0	99.0
LP-8	108.7	108.3	107.2	107.6	106.6	106.1	105.4	106.4	107.6	115.8
81L	102.5	101.9	100.5	100.7	98.3	98.7	94.4	94.9	98.1	103.0
808A	108.6	108.0	106.8	107.0	105.6	105.0	103.1	103.8	105.2	110.9
PNDB	122.9	122.3	121.1	121.3	120.1	119.2	117.3	117.7	119.0	125.1

-----PST02.0-----

YF-12 INLET NOISE SUPPRESSION
 16147 FEB 06, '80 TEST 9950
 YF-12 INLET NOISE SUPPRESSION
 RUN 61
 SPIKE MIDWAY
 BYPASS D00AS OPEN
 6600 RPM

RUN	70	71	72	73	74	75	76	77	78	79
FREQ (HZ)	TR 1 F1 0° DEG	TR 2 F2 10° DEG	TR 3 F3 20° DEG	TR 4 F4 30° DEG	TR 5 F5 40° DEG	TR 6 F6 50° DEG	TR 7 F7 70° DEG	TR 8 F8 90° DEG	TR 9 F9 110° DEG	TR10 F10 135° DEG
50	86.4	87.0	88.1	89.4	90.5	89.7	92.4	94.2	95.7	106.4
63	89.3	90.7	89.8	90.0	92.2	93.0	94.2	95.8	97.3	106.2
80	93.6	96.0	94.1	94.8	97.2	97.0	97.4	99.9	101.5	106.4
100	92.3	92.7	90.6	92.8	94.0	94.4	94.5	98.5	98.7	107.1
125	95.3	94.1	93.2	95.6	95.1	94.7	98.1	99.7	99.1	107.9
160	96.3	94.0	95.2	95.9	95.1	97.4	98.7	97.5	98.4	108.3
200	95.1	94.4	94.3	98.2	96.6	97.3	97.2	98.5	100.0	108.2
250	94.0	93.2	92.8	94.2	94.8	94.9	95.7	97.5	98.7	106.7
315	93.6	94.5	93.4	94.9	95.5	94.7	94.4	96.2	97.5	105.9
400	93.5	93.8	94.2	95.5	94.1	93.2	94.2	95.1	96.3	104.1
500	94.5	95.5	95.3	95.2	94.0	93.3	92.9	94.4	95.8	102.8
630	96.5	97.0	95.9	96.1	94.9	94.0	92.8	94.1	94.1	101.5
800	97.1	97.5	96.0	96.9	95.4	94.5	93.1	94.1	94.6	100.5
1K	96.5	96.0	94.7	94.9	93.9	93.2	92.8	93.8	95.8	99.1
1.25K	96.3	95.2	94.4	95.1	93.8	93.4	93.5	93.7	94.4	98.5
1.6K	97.3	96.0	94.9	95.9	95.0	95.3	94.1	95.2	99.1	99.8
2K	97.0	95.8	96.3	95.4	94.3	94.4	92.5	93.2	95.6	97.0
2.5K	97.5	96.7	96.0	95.8	94.3	94.3	91.4	93.0	92.8	94.3
3.15K	97.8	97.2	96.2	96.1	94.6	93.4	91.3	91.1	90.9	93.2
4K	95.7	95.6	94.7	94.1	92.8	92.2	91.2	91.6	90.1	92.4
5K	91.7	91.9	91.6	91.5	91.4	90.9	88.3	89.2	88.9	92.0
6.3K	89.4	88.9	87.6	87.8	87.8	86.6	85.7	86.1	85.7	89.5
8K	90.0	89.2	88.7	88.2	87.8	86.8	86.9	87.8	87.5	90.6
10K	85.7	86.9	85.8	85.2	84.7	84.4	83.7	85.7	86.8	92.3
63	95.5	97.8	96.2	96.9	99.0	99.0	99.9	102.1	103.6	111.1
125	99.7	98.4	98.1	99.7	99.6	100.5	102.2	103.4	103.5	112.6
250	99.0	98.8	98.3	99.4	100.5	100.4	100.7	102.3	103.6	111.8
500	99.8	100.4	100.0	100.4	99.1	98.3	98.1	99.3	100.9	107.7
1K	101.4	101.1	99.8	100.8	99.2	98.4	97.9	98.7	101.1	104.2
2K	102.0	101.0	100.2	100.5	99.2	99.5	97.6	98.7	101.4	102.4
4K	100.5	100.2	99.3	99.1	98.1	97.8	95.2	95.5	94.8	97.3
8K	93.5	93.8	92.3	92.1	91.8	90.9	90.4	91.4	91.5	95.7
LP-8	108.7	108.4	107.6	108.2	107.9	107.8	107.9	109.2	110.5	117.6
SIL	101.2	100.8	99.8	100.0	98.9	98.8	96.9	97.6	99.1	101.3
8DBA	107.6	107.1	106.2	106.4	105.4	105.1	103.8	104.7	106.5	110.4
PNOB	121.6	121.3	120.4	120.4	119.7	119.7	118.0	118.9	120.3	124.1
STOP										

YF-12 INLET NOISE SUPPRESSION
 17154 FEB 06 '80 TEST 9950
 YF-12 INLET NOISE SUPPRESSION
 RUN 73
 SPIKE MIDWAY
 BYPASS DOORS CLOSED
 5000 RPM

RUN	81	82	83	84	85	86	87	88	89	90
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 60. DEG	TR 8 F8 70. DEG	TR 9 F9 80. DEG	TR 10 F10 90. DEG
50	78.2	82.4	81.3	81.7	82.5	81.4	86.0	87.7	91.1	95.9
63	78.4	79.2	78.6	78.7	81.9	83.9	86.0	87.4	91.4	92.9
80	79.7	81.3	80.0	79.9	82.8	83.9	84.7	85.8	89.6	93.3
100	81.9	81.3	79.1	81.0	82.3	82.8	82.4	85.2	87.8	94.1
125	83.5	82.3	81.6	83.8	84.1	83.8	85.7	87.7	88.0	94.5
160	82.0	81.6	82.3	83.3	83.3	84.0	88.0	87.3	85.9	97.6
200	81.9	82.9	81.5	83.3	83.0	84.0	85.8	87.0	86.6	99.3
250	84.6	84.0	84.6	86.0	85.3	84.7	85.3	86.6	89.0	98.7
315	85.0	85.3	84.3	86.3	85.7	85.3	86.3	85.6	89.3	98.5
400	85.8	86.1	86.6	87.4	86.6	86.9	85.9	86.1	88.6	97.8
500	89.5	90.0	89.3	89.2	88.8	88.3	88.6	88.5	91.4	98.4
630	91.0	91.7	90.8	90.8	90.9	91.2	90.7	91.7	93.2	98.6
800	93.6	94.1	92.4	92.3	91.4	90.9	90.8	90.0	92.0	97.1
1K	92.1	92.1	91.3	91.7	91.1	91.2	90.0	89.1	91.2	96.8
1.25K	93.4	92.5	91.0	91.6	90.9	90.9	90.3	88.6	90.0	94.9
1.6K	93.8	92.5	91.1	91.6	91.1	91.8	89.8	88.0	89.8	92.6
2K	95.8	94.2	92.8	92.1	91.6	92.0	90.1	88.8	89.7	91.7
2.5K	105.0	103.7	102.0	101.2	99.1	97.5	92.1	89.9	89.1	92.4
3.15K	102.1	102.1	100.8	101.0	99.7	98.7	94.7	89.7	87.5	92.2
4K	95.2	95.8	94.2	93.8	92.8	92.9	89.2	86.1	85.4	90.3
5K	95.3	95.3	94.1	93.6	92.7	91.3	87.0	84.1	84.2	89.7
6.3K	93.9	92.9	91.5	91.8	91.3	90.7	87.3	83.2	83.9	89.9
8K	94.4	93.3	92.4	91.9	90.7	90.8	89.7	87.9	88.6	98.3
10K	90.4	90.4	89.8	88.2	86.8	86.8	84.0	79.8	81.7	92.6
63	83.6	86.1	84.9	85.1	87.2	88.0	90.4	91.8	95.5	99.0
125	87.3	86.5	86.0	87.5	88.1	88.2	90.7	91.7	92.1	100.5
250	88.8	88.9	88.5	90.1	89.8	89.5	90.4	91.2	92.2	103.6
500	94.0	94.6	94.0	94.1	93.9	94.0	93.6	94.2	96.2	103.1
1K	97.9	97.8	96.4	96.6	95.9	95.8	95.0	94.0	95.9	101.0
2K	105.8	104.5	102.8	102.1	100.4	99.4	95.8	93.7	94.2	97.0
4K	103.7	103.7	102.4	102.4	101.2	100.3	96.4	92.1	90.7	95.6
8K	98.0	97.2	96.1	95.7	94.8	94.8	92.4	89.6	90.8	99.8
LP-8	108.9	108.3	106.9	106.6	105.8	104.9	102.7	101.6	103.1	109.7
SIL	102.4	102.0	100.5	100.4	99.2	98.5	95.7	93.3	93.6	97.9
8DBA	109.7	109.0	107.5	107.2	105.9	104.7	102.1	100.0	100.9	106.5
PNOB	123.7	122.8	121.4	121.4	120.4	119.7	117.0	114.1	114.2	120.1
STOP	0									

YF-12 INLET NOISE SUPPRESSION
 12:00 FEB 07, '80 TEST 9950
 YF-12 INLET NOISE SUPPRESSION
 RUN-83
 SPIKE MIDWAY
 BYPASS DOORS CLOSED
 6200 RPM

RUN	103	104	105	106	107	108	109	110	111	112
FREQ (Hz)	TR 1 F1 0° DEG	TR 2 F2 10° DEG	TR 3 F3 20° DEG	TR 4 F4 30° DEG	TR 5 F5 40° DEG	TR 6 F6 50° DEG	TR 7 F7 70° DEG	TR 8 F8 90° DEG	TR 9 F9 110° DEG	TR 10 F10 135° DEG
50	80.0	82.8	81.8	83.2	84.4	84.1	84.7	87.8	90.9	100.8
63	84.7	86.1	86.1	86.0	87.7	89.1	89.4	91.8	94.9	100.8
80	84.2	86.6	85.8	85.9	88.6	88.4	89.2	92.0	94.8	99.9
100	87.9	87.9	85.0	87.4	89.0	88.6	88.8	92.2	94.7	101.0
125	88.2	87.4	84.6	88.5	89.0	88.5	91.6	93.4	94.0	101.7
160	88.2	87.0	87.9	88.7	89.9	89.8	92.6	91.0	97.5	103.9
200	87.1	87.8	87.2	88.2	89.1	89.9	91.4	92.1	94.4	103.7
250	88.6	88.2	87.9	88.8	89.8	88.5	89.2	91.4	94.4	103.1
315	87.6	88.7	87.7	89.4	89.7	89.6	90.1	89.9	93.5	102.9
400	89.1	89.8	90.2	90.9	89.7	88.6	88.3	89.3	92.7	101.8
500	91.8	92.9	92.5	92.6	91.2	89.7	88.1	88.3	91.4	100.0
630	93.7	93.8	93.4	93.3	92.0	90.5	88.3	88.8	92.2	98.5
800	94.9	95.6	94.2	94.7	93.5	91.3	88.3	88.7	97.7	97.5
1K	94.0	94.4	92.4	92.4	91.1	89.9	87.7	88.1	93.1	97.7
1.25K	94.7	94.6	93.4	93.6	92.1	91.5	89.5	89.7	95.7	100.1
1.6K	96.1	95.5	94.8	94.3	92.9	93.0	90.5	89.9	96.3	101.3
2K	96.3	95.5	94.6	94.2	92.8	92.6	89.2	87.1	90.7	96.8
2.5K	97.8	97.3	96.1	95.7	93.4	92.7	88.5	87.0	88.7	94.1
3.15K	101.0	100.8	99.6	99.4	97.2	95.9	91.9	88.0	87.9	93.1
4K	98.2	99.2	98.3	97.9	97.1	96.9	92.8	88.9	88.2	93.4
5K	93.7	94.4	94.0	94.1	93.6	93.0	89.0	85.9	87.1	94.2
6.3K	91.1	90.6	89.3	90.0	89.6	88.8	85.7	82.7	84.2	90.8
8K	91.6	91.1	90.4	90.7	89.6	89.8	88.4	86.8	90.5	93.8
10K	87.1	87.9	87.5	86.9	86.1	85.7	85.6	84.8	90.4	98.1
63	88.2	90.2	89.3	89.6	92.0	92.5	93.4	95.7	98.7	105.1
125	92.9	92.2	91.4	93.0	93.4	93.8	96.0	97.1	98.6	107.2
250	92.6	93.0	92.4	93.6	94.1	94.1	95.2	96.0	98.9	108.0
500	96.7	97.2	97.0	97.2	95.8	94.4	93.0	93.6	96.9	105.0
1K	99.3	99.7	98.2	98.4	97.1	95.7	93.3	93.6	98.8	103.4
2K	101.6	101.0	100.0	99.5	97.8	97.5	94.2	93.0	97.9	103.0
4K	103.5	103.6	102.7	102.4	101.0	100.3	96.3	92.5	92.6	98.3
8K	95.1	94.8	94.0	94.3	93.5	93.1	91.6	89.8	93.9	100.0
LP-8	107.6	107.6	106.7	106.7	105.6	105.0	103.4	103.5	104.6	113.8
SIL	101.5	101.4	100.3	100.1	98.4	97.9	94.6	93.1	94.4	101.6
BDNA	107.9	107.8	106.8	106.6	105.2	104.5	101.3	99.8	103.7	109.4
PNDB	122.3	122.2	121.2	121.2	119.8	119.3	116.5	114.6	117.3	123.4
PSDBE.0										

YF-12 INLET NOISE SUPPRESSION
 16:15 MAY 23, 60 TEST 10915
 YF-12 INLET NOISE SUPPRESSION
 RUN 87
 SPIKE FORWARD
 BYPASS DOORS OPEN
 5000 RPM

RUN	16	17	18	19	20	21	22	23
FREQ (Hz)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	.0	125.9	129.6	121.0	126.4	139.9	116.7	125.2
63	.0	127.3	131.0	122.8	127.6	141.3	118.1	125.4
80	103.5	128.4	132.1	124.4	129.2	142.5	119.7	125.6
100	106.6	129.8	133.2	126.4	130.3	143.9	121.3	125.4
125	111.2	131.3	133.8	128.6	131.1	144.2	122.5	125.8
160	115.2	132.8	133.7	129.5	131.9	145.2	123.9	126.4
200	117.7	134.9	133.9	131.3	133.1	146.1	125.6	127.4
250	122.9	137.7	133.5	133.6	133.8	146.6	127.6	129.5
315	124.4	141.5	133.0	132.2	132.8	146.3	129.8	129.0
400	124.1	143.9	133.5	130.1	132.0	146.3	132.1	129.0
500	120.5	142.1	133.2	127.4	130.4	145.8	136.3	128.7
630	118.4	138.0	131.6	126.7	130.6	145.0	138.8	129.7
800	118.3	133.4	126.8	127.2	135.4	144.0	136.0	131.0
1K	118.8	131.5	123.8	128.5	132.2	142.9	131.1	127.5
1.25K	120.4	133.1	122.8	127.6	128.2	141.9	131.1	128.3
1.6K	122.4	131.6	125.0	127.3	130.4	140.5	133.1	128.6
2K	124.6	131.6	127.4	128.4	133.5	140.2	134.3	131.6
2.5K	133.5	136.7	136.4	134.8	138.8	143.4	142.4	138.6
3.15K	132.8	138.6	136.7	135.1	139.2	144.4	143.7	140.5
4K	126.8	133.9	130.8	129.4	133.7	139.4	139.3	135.6
5K	127.4	134.0	130.7	129.8	133.4	138.9	138.9	135.3
6.3K	127.6	134.6	131.7	130.5	133.9	140.1	140.5	137.4
8K	126.3	133.7	130.3	129.3	132.3	138.6	139.3	136.7
10K	125.2	132.4	129.4	129.0	131.4	137.7	139.1	136.8
125	.0	132.1	135.8	127.7	132.8	148.1	123.1	130.2
160	117.0	136.3	138.3	133.1	135.9	149.1	127.5	130.6
200	127.2	141.6	138.3	137.2	138.1	151.1	132.8	133.5
250	126.4	146.7	137.6	133.1	135.9	150.5	141.3	133.9
315	124.2	137.5	129.5	132.6	137.6	147.8	138.2	133.8
400	134.3	140.1	137.2	136.3	140.4	146.4	143.4	139.7
500	134.7	140.9	138.5	137.1	141.1	146.4	146.0	142.6
630	131.3	138.4	135.3	134.4	137.4	143.7	144.4	141.8
LP-8	139.2	150.5	146.0	143.8	147.1	157.3	150.5	147.2
SIL	131.1	139.5	135.1	135.3	139.7	146.9	142.5	138.6
ODEA	159.5	148.1	143.7	142.5	146.4	154.2	150.6	147.1
PINdB	153.5	162.4	159.2	157.7	161.3	169.1	164.8	161.7

Add 4.0 dB to all values of K8

YF-12 INLET NOISE SUPPRESSION
 16115 MAY 23, 80 TEST 10916
 YF-12 INLET NOISE SUPPRESSION
 RUN 88
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6000 RPM

FREQ (Hz)	27		28		29		30		31		32		33		34	
	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG	TR 7 K14 0. DEG	TR 8 K12 0. DEG								
50	104.3	127.7	131.2	122.4	127.9	143.4	119.5	119.9								
63	104.5	129.0	132.1	123.7	129.4	144.4	120.2	121.4								
80	106.5	130.7	133.4	126.1	131.0	145.4	121.4	122.0								
100	110.4	132.2	135.2	129.4	132.5	146.4	123.1	123.8								
125	117.4	133.8	135.7	132.1	134.1	147.6	124.1	125.8								
160	118.7	135.4	136.8	133.3	134.7	147.7	125.6	127.1								
200	122.8	137.4	138.3	135.0	136.4	148.8	127.9	129.2								
250	127.8	140.0	138.6	135.9	137.1	149.2	131.0	131.8								
315	128.6	143.6	138.8	135.2	136.8	150.0	133.2	133.7								
400	129.0	146.7	139.4	133.5	136.2	150.5	135.5	133.8								
500	125.2	145.5	138.2	131.4	135.2	150.2	141.1	133.7								
630	123.4	141.9	135.6	130.8	135.3	150.0	143.9	138.0								
800	123.9	137.2	131.5	131.7	140.7	149.4	141.3	137.7								
1K	123.6	135.8	128.3	133.0	136.9	148.3	137.9	133.0								
1.25K	124.6	136.9	127.3	132.4	133.0	147.8	137.1	134.4								
1.6K	124.9	135.6	128.9	132.2	134.9	146.7	139.4	135.4								
2K	126.8	135.1	130.5	131.9	137.4	146.0	139.3	136.4								
2.5K	131.1	137.1	133.4	133.4	137.7	145.6	142.5	140.1								
3.15K	135.3	141.1	136.9	137.1	140.9	146.4	150.5	147.3								
4K	132.6	140.2	136.8	136.2	140.5	147.7	150.0	147.0								
5K	129.4	137.4	134.0	133.7	137.2	146.6	147.2	143.4								
6.3K	128.5	136.6	132.7	132.4	135.6	145.1	146.4	142.4								
8K	127.4	136.1	132.1	131.7	134.6	144.0	145.8	142.1								
10K	126.2	134.6	130.6	130.9	133.1	143.1	144.7	141.0								
63	110.0	134.1	137.1	129.1	134.4	149.2	125.2	125.9								
125	121.4	138.7	140.8	136.7	138.7	152.0	129.2	130.5								
250	131.8	145.8	143.4	140.1	141.6	154.1	136.0	136.7								
500	131.3	149.9	142.8	136.8	140.4	155.0	146.1	140.4								
1K	128.8	141.5	134.2	137.2	142.7	153.3	143.9	140.3								
2K	133.2	140.8	136.1	137.3	141.6	150.9	145.4	142.6								
4K	137.9	144.6	140.9	140.7	144.6	151.7	154.2	151.0								
8K	132.2	140.6	136.7	136.5	139.3	148.9	150.4	146.6								
LP-8	141.3	153.3	149.1	146.8	150.2	161.4	156.8	153.4								
SIL	133.3	142.3	137.1	138.4	143.0	152.0	147.9	144.6								
ODBA	141.3	151.0	145.9	145.4	149.4	159.1	157.1	153.7								
PNDB	156.1	165.1	161.1	160.3	164.0	173.2	171.1	167.8								

Add 4.0 dB to all values of K8

YF-12 INLET NOISE SUPPRESSION
 16:15 MAY 23, 1960 TEST 10915
 YF-12 INLET NOISE SUPPRESSION

RUN 39
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6200 RPM

FREQ (Hz)	38		39		40		41		42		43		44		45	
	TP 1 K1 0. DEG	TR 2' K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG	TR 7 K14 0. DEG	TR 8 K12 0. DEG								
50	104.5	128.1	132.0	122.9	128.4	143.7	119.5	118.6								
63	104.5	129.1	132.4	124.0	129.7	144.8	120.4	120.4								
80	105.7	131.1	133.8	126.3	131.2	146.1	121.3	121.7								
100	110.6	132.4	135.4	129.9	133.0	147.4	123.5	123.7								
125	117.3	133.8	136.2	133.0	134.7	148.2	124.7	125.6								
160	119.4	135.5	137.1	134.3	135.5	148.3	126.1	127.0								
200	123.4	139.0	139.0	135.8	137.3	149.1	128.2	129.3								
250	128.4	140.4	139.3	136.7	137.5	149.6	131.3	131.9								
315	129.1	144.0	139.6	135.7	137.2	150.5	133.9	134.3								
400	129.5	147.2	140.3	134.1	136.8	151.2	135.8	134.4								
500	126.0	146.0	138.9	132.1	136.0	150.7	141.8	134.5								
630	124.4	142.4	136.0	131.4	135.6	150.8	144.3	137.7								
800	124.5	133.0	132.2	132.5	141.4	150.1	141.8	139.3								
1K	123.5	136.4	128.9	133.7	137.7	149.0	138.6	136.2								
1.25K	124.4	137.7	127.8	133.0	133.7	148.7	138.1	138.4								
1.6K	125.4	136.2	129.4	132.8	135.5	147.6	141.0	134.9								
2K	127.1	135.5	130.8	132.3	137.9	147.1	140.5	137.6								
2.5K	129.9	136.5	132.6	132.9	137.5	146.6	143.1	141.2								
3.15K	132.3	138.9	134.6	134.9	138.8	146.4	149.0	142.6								
4K	130.6	138.6	134.8	134.5	138.6	146.8	150.2	145.4								
5K	128.3	136.6	132.9	132.9	136.3	146.6	146.9	142.8								
6.3K	127.0	135.8	131.7	131.5	134.6	145.6	146.2	141.4								
8K	125.8	135.3	130.8	130.7	133.5	144.3	145.7	141.1								
10K	124.8	134.2	129.6	130.0	132.1	143.4	144.5	140.1								

63	121.5	134.4	137.6	129.4	134.7	149.8	125.2	125.2								
125	121.8	138.8	141.0	137.5	139.3	152.8	129.7	130.4								
250	132.4	146.3	144.1	140.9	142.1	154.5	136.5	137.1								
500	131.9	150.4	143.5	137.4	140.9	155.7	146.6	140.6								
1K	128.9	142.2	134.8	137.9	143.4	154.1	144.6	142.9								
2K	132.6	140.9	135.9	137.5	141.9	151.9	146.5	143.4								
4K	135.5	143.0	138.9	139.0	142.8	151.4	153.6	148.6								
8K	130.7	139.9	135.5	135.5	138.3	149.3	150.3	145.7								

LP-8	140.3	153.4	149.3	146.8	150.1	162.0	156.7	152.3								
51L	132.3	142.0	136.6	138.1	142.7	152.4	148.2	145.0								
8DBA	139.8	150.8	145.4	144.8	148.9	159.6	156.9	152.4								
114DB	154.4	164.3	160.2	159.4	163.1	173.3	171.0	166.7								

Add 4.0 dB to all values of K8

YF-12 INLET NOISE SUPPRESSION
 16:15 MAY 23, 1960 TEST 10915
 YF-12 INLET NOISE SUPPRESSION

RUN 90

SPIKE FORWARD
 BYPASS DOORS OPEN
 6400 RPM

RUN	50	51	52	53	54	56	57	58
FREQ (Hz)	TR 1 K1 O. DEG	TR 2-K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K8 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	0	128.2	131.7	122.5	128.4	144.4	119.8	119.8
63	104.3	129.8	132.7	123.9	130.1	145.7	120.2	120.6
80	105.5	130.9	133.7	126.5	131.8	147.0	121.4	122.0
100	110.7	132.4	135.5	130.4	133.5	148.1	123.6	124.0
125	117.0	134.3	136.2	133.0	134.9	149.4	125.0	125.9
160	119.8	135.6	137.3	134.8	136.0	149.2	126.4	127.3
200	123.9	138.0	139.1	136.2	137.5	150.2	128.4	129.7
250	128.6	140.5	139.7	137.0	138.0	150.5	131.3	132.2
315	129.3	144.1	140.3	136.1	137.8	151.4	134.4	134.8
400	129.8	147.5	141.0	134.4	137.2	152.4	136.2	135.1
500	126.3	146.4	139.8	132.7	136.4	152.0	142.7	135.2
630	124.7	142.9	136.5	131.9	136.2	152.1	145.0	137.1
800	124.8	139.3	132.8	133.0	141.9	151.6	142.6	139.3
1K	123.9	136.8	129.6	134.4	138.1	150.3	139.4	140.6
1.25K	124.4	138.0	128.3	133.6	134.3	150.1	138.5	139.2
1.6K	125.3	136.6	129.6	133.2	135.8	149.0	141.1	136.4
2K	127.2	135.8	130.9	132.6	138.2	148.3	140.8	137.8
2.5K	128.7	136.1	132.1	132.7	137.3	147.9	143.0	139.3
3.15K	129.8	137.1	132.5	133.1	137.2	147.2	147.4	141.1
4K	125.4	136.9	132.6	132.7	136.7	146.9	149.2	144.1
5K	127.0	135.7	131.4	131.8	135.1	146.9	146.0	141.8
6.3K	125.7	135.1	130.5	130.6	133.7	146.4	145.5	140.8
8K	124.6	134.6	129.6	129.9	132.6	145.2	145.1	140.2
10K	123.7	133.8	128.5	129.3	131.4	144.4	143.8	139.3

50	122.0	134.5	137.8	129.4	135.1	150.6	125.3	125.7
125	122.0	139.1	141.2	137.9	139.7	153.7	129.9	130.7
250	132.6	146.4	144.5	141.2	142.5	155.5	136.8	137.5
500	132.2	150.7	144.2	137.9	141.4	156.9	147.3	140.7
1K	129.1	142.5	135.4	138.5	143.9	155.5	145.3	144.5
2K	132.1	141.0	135.8	137.6	142.0	153.2	146.6	142.7
4K	133.3	141.4	137.0	137.4	141.2	151.8	152.5	147.3
8K	129.5	139.3	134.4	134.7	137.4	150.2	149.6	144.9

LP-8	139.6	153.5	149.5	146.8	150.1	163.0	156.1	151.8
SIL	131.5	141.6	136.0	137.8	142.4	153.5	148.1	144.9
OCBA	138.7	150.7	145.2	144.6	148.7	160.7	158.2	151.8
PNOB	153.0	163.5	159.3	158.7	162.4	174.2	170.3	166.0

*STEP 0

Add 4.0 dB to all values of K8

YF-12 INLET NOISE SUPPRESSION
 16:25 MAY 23, '60 TEST 10915
 YF-12 INLET NOISE SUPPRESSION
 RUN 91

SPiRE FORWARD
 BYPASS DRUMS OPEN
 6600 RPM

RUN	62	63	64	65	66	67	68	69
FREQ (MC)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	103.1	128.8	131.8	123.2	128.7	145.2	119.3	118.9
63	103.9	129.7	132.8	124.6	130.3	146.1	120.6	120.7
80	106.7	131.1	134.0	126.5	131.8	147.5	121.8	122.0
100	111.6	132.8	135.6	130.6	133.4	148.5	123.8	124.5
125	117.2	134.4	136.7	133.0	134.9	149.7	125.0	126.1
160	120.7	136.1	137.7	135.4	136.3	149.8	126.7	127.6
200	124.5	138.4	139.7	136.8	138.0	150.4	128.7	130.0
250	129.2	140.6	140.0	137.5	138.4	150.9	131.8	132.4
315	129.7	144.3	140.8	136.3	138.2	151.8	135.0	135.1
400	130.2	147.7	141.6	134.8	137.8	152.9	136.7	135.7
500	127.0	146.8	140.2	133.0	136.8	152.6	143.2	135.7
630	124.9	143.0	136.9	132.2	136.6	152.5	145.2	138.3
800	125.4	138.6	132.7	133.2	142.7	151.9	142.7	141.1
1K	123.8	137.2	129.7	134.9	138.7	150.8	140.0	136.4
1.25K	124.7	138.4	128.5	134.3	135.1	150.7	139.4	136.6
1.6K	125.8	136.9	129.9	133.7	136.4	149.6	142.1	135.5
2K	127.3	136.1	131.0	132.8	138.5	149.0	142.6	138.1
2.5K	128.2	136.2	131.8	132.6	137.3	148.6	143.1	138.7
3.15K	128.3	136.3	131.5	132.3	136.6	147.8	146.0	140.4
4K	127.0	135.8	131.1	131.7	135.6	147.1	147.1	142.6
5K	126.2	135.1	130.5	131.1	134.4	147.0	145.8	141.2
6.3K	125.2	134.8	129.9	130.2	133.3	146.7	145.0	140.4
8K	124.0	134.4	129.1	129.5	132.3	145.6	144.5	139.7
10K	123.1	133.8	128.1	129.0	131.2	144.8	143.5	139.0
63	109.8	134.7	137.7	129.8	135.2	151.1	125.5	125.5
125	122.6	139.4	141.5	138.2	139.8	154.2	130.1	131.0
250	133.1	146.6	145.0	141.7	143.0	155.9	137.3	137.8
500	132.7	151.0	144.7	138.2	141.9	157.4	147.7	141.5
1K	129.5	142.9	135.5	139.0	144.6	155.9	145.8	143.4
2K	132.0	141.2	135.7	137.8	142.3	153.9	147.4	142.4
4K	132.0	140.5	135.8	136.5	140.4	152.1	151.1	146.3
8K	129.0	139.1	133.9	134.4	137.1	150.5	149.2	144.5
LP-6	139.5	153.7	149.8	147.0	150.4	163.5	155.7	151.2
SIL	131.1	141.5	135.7	137.8	142.4	154.0	148.1	144.0
WDBA	138.3	150.8	145.2	144.6	148.9	161.2	155.8	151.0
PNUB	152.3	163.6	158.9	158.5	162.2	174.6	169.4	165.1

Add 4.0 dB to all values of K8

YF-12 INLET NOISE SUPPRESSION
16125 MAY 23, 1960 TEST 10915
YF-12 INLET NOISE SUPPRESSION
RUN 99

SPIKE FORWARD
BYPASS DOORS CLOSED
5000 RPM

HUN	73	74	75	76	77	78	79	80
FREQ (Hz)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	103.9	129.2	132.0	123.9	129.9	131.0	116.6	122.1
63	104.6	130.5	132.8	125.7	133.9	134.7	118.2	122.5
80	105.2	131.8	134.0	127.6	132.9	134.7	119.3	123.0
100	110.7	133.4	135.5	131.0	135.1	136.5	120.9	124.8
125	114.7	134.8	136.7	132.9	136.4	139.9	121.6	125.7
160	121.5	136.7	138.0	136.6	138.0	139.4	122.5	127.1
200	124.4	139.2	140.3	138.3	139.3	138.2	123.0	128.9
250	126.3	141.0	141.4	137.8	139.8	137.8	124.8	127.1
315	125.3	143.8	142.1	136.1	139.2	136.0	127.3	126.9
400	122.5	146.3	142.8	134.5	138.4	135.0	129.2	126.7
500	120.2	146.1	141.7	133.1	137.1	134.1	133.2	126.9
630	117.7	143.0	137.9	132.7	136.9	134.7	135.9	127.9
800	120.2	139.5	133.3	133.5	141.4	134.8	133.6	129.6
1K	119.2	138.4	129.3	134.3	138.0	133.9	129.1	127.3
1.25K	119.1	138.9	127.3	133.6	134.9	134.0	129.1	125.7
1.6K	119.8	136.6	126.9	131.9	134.3	134.0	131.6	127.4
2K	122.8	135.9	128.2	131.7	135.6	135.0	131.1	130.4
2.5K	133.3	139.8	134.6	135.4	139.5	143.2	138.1	140.4
3.15K	132.9	141.5	137.3	137.5	142.1	144.8	140.9	142.1
4K	124.4	138.1	133.2	132.8	136.3	138.2	136.9	134.9
5K	126.4	136.5	130.9	131.8	134.9	138.2	136.7	135.1
6.3K	127.3	137.4	132.4	132.8	136.1	140.4	139.3	137.8
8K	125.5	136.8	131.8	131.9	134.7	138.5	137.6	137.5
10K	124.9	136.0	131.0	131.7	134.1	137.5	137.5	137.1
63	109.4	135.4	137.7	130.8	136.2	138.6	123.0	127.3
125	122.6	140.0	141.6	138.9	141.4	143.6	126.5	130.6
250	130.2	146.5	146.1	142.3	144.2	142.2	130.1	131.4
500	125.3	150.2	146.0	138.3	142.3	139.4	138.3	132.0
1K	124.3	143.7	145.4	138.6	143.7	139.0	135.9	132.6
2K	133.8	142.6	136.1	138.1	141.9	144.2	139.6	141.0
4K	134.5	144.0	139.4	139.6	143.7	146.4	143.4	143.8
8K	130.8	141.5	136.6	136.9	139.8	143.8	143.0	142.3
LP-8	139.2	153.9	150.9	147.8	151.2	152.0	148.0	147.7
SIL	130.9	143.4	137.0	138.8	143.1	143.2	139.7	139.1
BOBA	139.2	151.6	146.8	145.7	149.6	151.0	148.0	147.9
MNOB	153.6	165.7	161.5	160.9	164.8	166.3	162.3	162.4

Add 4.0 dB to all values of K8

YF-12 INLET NOISE SUPPRESSION
 16:25 MAY 23, '60 TEST 10915
 YF-12 INLET NOISE SUPPRESSION
 RUN 103
 SPIKE FORWARD
 BYPASS DRUMS CLOSED
 5600 RPM

FREQ (Hz)	84		85		86		87		88		89		90		91	
	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG	TR 7 K14 0. DEG	TR 8 K12 0. DEG								
50	106.4	131.0	132.6	124.7	131.2	132.0	117.3	117.3								
63	108.2	132.2	133.3	127.1	132.4	135.2	118.8	118.8								
80	108.3	133.2	134.2	128.5	133.9	134.6	119.9	119.4								
100	112.1	134.3	135.8	131.9	135.9	137.5	121.9	123.1								
125	117.2	136.1	137.2	134.9	138.0	141.8	122.9	126.2								
160	123.1	137.7	138.2	138.2	139.6	140.8	124.0	127.1								
200	126.5	140.1	140.7	140.5	141.7	141.0	125.3	128.0								
250	130.2	142.7	143.1	141.0	142.4	141.3	127.1	129.3								
315	129.5	144.6	144.4	139.0	142.1	139.4	130.0	130.4								
400	125.9	146.8	145.9	136.6	141.3	138.6	131.4	130.2								
500	123.6	147.4	145.5	135.4	139.9	138.0	136.6	130.2								
630	121.6	144.8	142.1	135.1	140.0	139.1	139.0	132.4								
800	122.5	141.6	136.3	136.0	144.0	138.5	136.4	132.8								
1K	121.8	140.6	131.6	137.2	140.2	137.4	132.3	130.7								
1.25K	123.6	141.5	129.8	136.8	138.0	138.7	132.3	129.3								
1.6K	124.1	139.5	130.1	135.1	137.4	138.8	134.3	131.0								
2K	124.9	138.6	130.7	134.6	138.5	138.7	133.9	133.0								
2.5K	130.3	139.5	132.1	135.0	138.3	140.7	137.5	136.9								
3.15K	133.3	142.6	136.0	138.1	142.1	146.7	144.0	143.4								
4K	131.6	142.2	136.6	137.8	141.7	144.9	141.9	140.0								
5K	128.5	139.8	134.8	135.4	138.3	142.5	139.8	137.5								
6.3K	128.1	138.7	133.4	134.2	137.2	142.6	141.0	140.1								
8K	127.3	138.3	133.1	134.2	136.8	141.8	140.2	138.8								
10K	126.0	137.4	132.5	133.4	135.7	140.3	140.1	138.6								
63	112.5	137.0	138.2	131.8	137.4	138.9	123.5	123.4								
125	124.4	141.1	142.0	140.5	142.9	145.2	127.8	130.5								
250	133.8	147.6	147.8	145.0	146.8	145.4	132.7	134.1								
500	128.8	151.2	149.6	140.5	145.2	143.4	141.4	135.8								
1K	127.5	146.0	148.3	141.4	146.2	143.0	138.9	135.8								
2K	132.2	144.0	135.8	139.7	142.9	144.3	140.3	139.1								
4K	136.3	146.5	140.6	142.0	145.8	149.8	147.0	145.7								
8K	132.0	142.9	137.8	138.7	141.4	146.5	145.2	144.0								
LP-8	140.6	155.3	153.0	150.1	153.4	154.5	150.7	149.1								
SIL	132.0	145.5	138.2	141.0	145.0	145.7	142.1	140.2								
OOBA	140.1	153.3	149.1	147.9	151.8	153.6	150.8	149.3								
PAOB	154.9	167.3	162.5	162.6	166.2	168.8	165.1	163.9								
*STOP = 0																

Add 4.0 dB to all values of 88

YF-12 INLET NOISE SUPPRESSION
 16:38 MAY 23, '80 TEST 10933
 YF-12 INLET NOISE SUPPRESSION
 RUN 107
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6000 RPM

RUN	17	18	19	20	22	23	24	25
FREQ (Hz)	TR 1 K1 O. DEG	T4 2' K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K18 O. DEG
50	113.4	131.6	133.2	129.0	131.7	122.5	117.4	116.3
63	114.0	133.1	133.9	131.3	133.1	125.3	118.9	118.3
80	114.4	134.3	134.9	132.5	134.7	124.6	120.5	119.3
100	115.8	135.4	135.7	135.4	136.4	128.3	122.1	122.8
125	118.7	136.7	136.9	136.2	136.6	132.6	124.0	126.6
160	122.2	138.3	138.0	141.0	140.1	130.6	125.1	127.4
200	126.7	140.9	140.2	144.6	142.5	132.8	126.6	128.9
250	130.5	143.4	143.3	145.6	143.8	132.4	128.6	129.9
315	130.1	145.2	145.1	143.9	143.6	130.9	131.2	131.9
400	126.8	147.8	147.2	141.4	142.8	130.6	132.4	131.2
500	124.3	148.1	147.1	140.1	141.3	130.1	138.1	131.9
630	123.3	146.0	144.3	140.1	141.7	131.5	141.1	136.0
800	123.3	142.9	138.4	140.9	145.3	130.3	138.7	136.2
1K	122.7	142.0	133.2	142.1	141.5	129.4	134.4	131.8
1.25K	125.2	142.8	131.2	141.8	139.8	131.1	134.1	133.2
1.6K	125.0	141.1	132.0	140.6	139.2	130.7	136.9	135.4
2K	125.6	140.4	132.2	140.1	140.6	130.9	136.3	136.4
2.5K	128.4	140.5	133.0	140.0	139.6	131.8	139.3	139.9
3.15K	130.9	142.4	134.7	141.6	142.0	136.8	147.3	143.8
4K	131.8	143.7	137.3	143.6	144.3	139.1	146.6	144.8
5K	129.7	142.6	137.6	142.6	142.3	137.5	143.9	141.2
6.3K	128.2	141.1	136.7	140.3	139.9	135.5	143.4	140.6
8K	127.4	139.7	135.2	139.7	138.9	134.3	142.9	140.7
10K	126.2	138.7	134.5	139.1	138.0	133.0	142.0	139.2
63	118.7	137.9	138.9	136.0	138.1	129.1	123.9	122.9
125	124.5	141.7	141.8	143.5	143.4	135.6	128.7	130.8
250	134.2	144.3	148.1	149.5	148.1	136.9	134.0	135.2
500	129.8	152.1	151.2	145.3	146.8	135.5	143.3	138.4
1K	128.7	147.4	140.2	146.4	147.6	135.1	141.0	138.9
2K	131.4	145.5	137.2	145.0	144.6	135.9	142.5	142.4
4K	135.7	147.7	141.5	147.5	147.7	142.7	150.9	148.3
8K	132.1	144.7	140.4	144.5	143.8	139.2	147.6	145.0
LP-8	140.6	156.3	154.1	154.9	154.9	146.7	153.7	151.3
0.1L	131.9	146.8	139.6	146.3	146.7	137.9	144.8	143.2
00BA	139.7	154.5	150.5	153.1	153.4	146.1	154.0	151.6
PADB	154.5	168.4	163.5	167.8	168.0	161.1	168.0	165.8

Add 10.0 dB to all values of K10

YF-12 INLET NOISE SUPPRESSION
 16138 MAY 23, 1960 TEST 109J3
 YF-12 INLET NOISE SUPPRESSION
 RUN 109
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6200 RPM

RUN	29	30	31	32	33	34	35	36
FREQ (MC)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG	TR 7 K14 0. DEG	TR 8 K12 0. DEG
50	117.6	131.5	133.0	129.4	131.6	122.3	117.3	116.0
63	118.1	133.1	134.2	131.0	133.0	125.1	119.5	118.1
80	118.0	134.8	135.2	132.6	134.8	124.3	120.6	119.4
100	118.4	136.1	136.0	135.5	136.7	128.9	122.5	123.4
125	120.5	136.9	136.9	138.0	138.5	132.9	124.3	126.6
160	123.0	138.6	137.8	140.7	139.7	129.9	125.3	127.7
200	128.0	141.3	139.9	145.1	142.5	133.5	126.9	129.3
250	131.6	144.0	143.4	145.8	144.1	133.0	129.3	130.7
315	131.3	145.5	144.8	144.1	144.0	130.8	131.7	132.5
400	128.2	148.0	147.5	142.0	143.3	131.4	132.9	132.0
500	125.5	148.5	147.5	140.2	141.9	131.0	138.9	132.9
630	124.0	146.5	145.0	140.3	142.1	132.2	141.1	136.0
800	124.0	143.5	139.3	141.4	145.7	130.9	139.3	137.3
1K	124.7	142.7	143.7	142.4	142.0	130.2	136.4	143.8
1.25K	127.0	143.6	141.6	142.3	140.5	132.6	134.8	138.6
1.6K	125.9	141.8	132.5	141.1	139.8	131.7	138.1	135.9
2K	126.3	141.1	132.6	140.6	141.3	132.0	138.0	136.7
2.5K	127.8	140.8	133.2	140.4	139.9	132.1	139.0	138.5
3.15K	128.5	140.9	133.1	140.6	140.3	134.1	143.5	142.6
4K	129.3	141.4	134.3	141.6	141.5	136.6	145.4	144.4
5K	128.7	140.9	135.1	141.2	140.8	138.2	142.8	140.6
6.3K	128.2	140.9	135.3	139.8	139.2	134.7	142.5	139.6
8K	127.6	139.3	134.7	139.1	138.1	133.1	142.3	139.5
10K	126.6	138.4	134.0	138.5	137.1	132.0	141.3	138.4
63	122.7	138.1	139.0	136.0	138.1	128.9	124.1	122.8
125	125.8	142.1	141.7	143.3	143.3	135.7	129.0	131.0
250	135.4	148.7	147.9	149.8	148.4	137.4	134.5	135.8
500	131.0	152.5	151.6	145.7	147.2	136.3	143.5	138.8
1K	130.2	148.0	140.9	146.8	148.1	136.1	142.0	145.7
2K	131.5	146.0	137.5	145.5	145.2	136.7	143.2	141.9
4K	133.6	145.9	139.1	145.9	145.7	140.5	148.8	147.6
8K	132.3	144.2	139.4	143.9	143.0	138.2	146.8	144.0
LP-B	140.7	156.5	154.2	154.9	154.8	146.1	152.7	151.7
SIL	131.8	146.6	139.2	146.1	146.3	137.8	144.7	145.1
OGBA	139.2	154.5	150.9	152.9	153.0	145.1	152.8	151.9
PND8	153.6	167.6	163.2	166.9	166.9	159.9	166.9	165.8

Add 10.0 dB to all values of K10

YF-12 INLET NOISE SUPPRESSION
 16138 MAY 23 30 TEST 10933
 YF-12 INLET NOISE SUPPRESSION
 RUN 111
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6400 RPM

RUN	40		41		42		43		44		45		46		47	
	FREQ (Hz)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K16 O. DEG	TR 8 K12 O. DEG							
50	115.0	132.1	133.2	126.6	130.6	123.4	117.6	117.0								
63	115.8	132.7	134.1	128.8	132.3	125.6	119.4	118.8								
80	116.1	134.1	134.7	130.4	133.7	125.0	120.6	120.1								
100	116.6	135.6	135.8	133.3	135.6	129.9	122.5	123.6								
125	118.9	137.1	137.0	135.6	137.1	133.5	124.3	127.2								
150	121.5	138.8	137.9	137.9	138.9	130.0	125.3	128.3								
200	127.0	141.3	139.8	143.0	141.9	134.2	127.2	129.6								
250	130.7	144.0	143.4	143.5	143.5	133.9	129.6	131.2								
315	136.7	145.6	144.8	144.6	143.4	131.7	132.1	133.1								
400	127.6	148.1	147.7	139.8	142.6	132.4	133.2	132.5								
500	124.7	148.6	147.6	138.3	141.2	132.0	139.2	133.9								
630	123.3	146.6	145.3	138.2	141.5	133.1	141.4	136.2								
800	123.4	143.8	139.6	139.3	145.1	132.1	138.7	139.7								
1K	124.3	143.1	134.2	140.3	141.3	131.8	135.5	138.4								
1.25K	126.5	144.0	132.0	140.2	139.8	133.2	135.3	137.8								
1.6K	125.2	142.1	132.8	138.9	139.1	132.5	137.5	135.3								
2K	125.4	141.4	132.7	138.4	140.5	132.7	138.0	136.8								
2.5K	126.2	141.1	133.4	137.9	139.1	132.6	138.9	137.5								
3.15K	126.0	140.6	132.8	137.5	138.8	133.4	142.1	140.1								
4K	126.5	140.4	133.0	137.3	138.9	134.8	144.1	141.5								
5K	126.6	139.8	133.6	136.6	138.4	134.9	142.1	139.7								
6.3K	126.6	139.5	134.1	135.1	137.4	134.0	141.9	139.1								
8K	126.5	138.9	134.1	133.9	136.5	132.6	141.9	138.8								
10K	125.6	138.2	133.7	132.7	135.7	131.5	140.9	137.8								
63	120.4	137.8	138.8	133.6	137.1	129.5	124.1	123.6								
125	124.2	142.1	141.8	140.8	142.2	136.2	129.0	131.6								
250	134.5	148.7	147.9	147.5	147.8	138.1	134.9	136.3								
500	130.4	152.6	151.8	143.6	146.6	137.3	143.8	139.2								
1K	129.7	148.4	141.3	144.7	147.4	137.2	141.5	143.5								
2K	130.4	146.3	137.7	143.2	144.4	137.4	142.9	141.4								
4K	131.1	145.1	137.9	141.9	143.8	139.2	147.8	145.3								
8K	131.0	143.7	138.7	138.8	141.4	137.6	146.4	143.3								
LP-8	139.9	156.5	154.3	152.2	153.9	146.2	152.1	150.2								
SIL	130.4	146.6	139.0	143.3	145.1	137.9	144.0	143.4								
008K	137.7	154.5	150.5	150.1	152.0	144.9	152.0	150.2								
M408	151.8	167.3	163.1	163.6	165.3	159.3	166.1	164.1								

Add 10.0 dB to all values of K10

YF-12 INLET NOISE SUPPRESSION
 1613A MAY 23, '80 TEST 10933
 YF-12 INLET NOISE SUPPRESSION
 RUN 113

EPIKE FORWARD
 BYPASS DOORS CLOSED
 6600 RPM

FREQ (Hz)	51		52		53		54		55		56		57		58	
	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG								
50	116.8	132.3	133.2	126.6	131.6	123.8	117.5	116.7								
63	117.4	133.4	134.1	127.9	133.0	125.7	119.5	118.6								
80	117.3	134.6	135.0	129.8	134.8	125.6	120.8	119.8								
100	118.1	135.8	135.7	132.6	136.3	130.7	122.6	123.9								
125	119.8	137.3	136.8	134.8	138.2	133.7	124.8	127.1								
160	122.4	138.5	137.9	137.4	139.8	135.6	125.7	128.1								
200	127.8	141.3	139.7	142.1	142.8	134.8	127.6	130.0								
250	131.2	143.8	142.9	143.0	144.4	134.8	130.1	131.6								
315	131.5	145.6	144.7	141.4	144.6	132.8	132.5	133.7								
400	128.7	148.2	147.7	139.4	143.9	133.6	133.2	133.1								
500	125.6	149.0	147.8	137.9	142.4	133.2	139.8	134.2								
630	124.1	146.9	145.6	137.7	142.8	134.3	141.8	137.6								
800	124.5	144.1	140.3	138.8	146.4	134.6	149.5	140.5								
1K	125.4	143.5	134.5	139.9	142.5	132.3	145.8	138.3								
1.25K	127.5	144.2	132.3	139.9	141.1	134.1	135.2	137.8								
1.6K	126.0	142.5	132.9	138.7	140.4	133.3	136.6	134.8								
2K	126.1	141.8	132.9	138.1	141.8	133.6	137.9	139.5								
2.5K	126.7	141.2	133.5	137.5	140.4	133.3	138.9	137.5								
3.15K	126.5	140.7	132.8	137.0	139.8	133.9	141.8	139.8								
4K	126.9	140.2	132.8	136.6	139.7	135.2	144.7	142.7								
5K	127.0	139.7	133.3	135.9	139.3	135.6	142.6	140.3								
6.3K	127.1	139.5	133.8	134.4	138.4	134.8	142.2	139.4								
8K	127.2	139.0	134.1	133.1	137.6	133.1	142.0	139.0								
10K	126.4	138.3	133.9	131.9	136.8	132.1	141.0	138.0								
63	121.9	138.3	138.9	133.1	138.1	129.9	124.2	123.3								
125	125.2	142.1	141.6	140.1	143.1	136.7	129.3	131.5								
250	135.2	148.7	147.7	147.0	148.8	139.0	135.3	136.8								
500	131.4	152.9	151.9	143.2	147.9	139.5	144.3	140.2								
1K	130.8	148.7	141.8	144.3	148.7	138.5	142.0	143.8								
2K	131.1	146.6	137.9	142.9	145.7	138.2	142.7	142.5								
4K	131.5	149.0	137.7	141.3	144.4	139.7	148.0	145.9								
8K	131.7	143.7	138.7	138.0	142.4	138.2	146.5	143.6								
LP-8	140.2	156.7	154.3	151.7	155.0	147.0	152.4	150.8								
SIL	131.1	146.8	139.1	142.8	146.3	138.8	144.2	144.1								
ODDA	138.4	154.7	150.7	149.6	153.2	145.7	152.3	150.8								
PADB	152.4	167.4	163.2	163.1	166.3	160.0	166.8	164.9								

*S10P: 0

Add 10.0 dB to all values of K10

YF-12 INLET NOISE SUPPRESSION
 09120 APR 29, 1960 TEST 1071A
 YF-12 INLET NOISE SUPPRESSION
 RUN 125
 SPIKE AFT
 BYPASS DOWNS OFFEN
 4200 RPM

RUN	23	24	25	26	27	28	29	30	31	32
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DFG	TR 3 F3 20. DEG	TR 4 F4 30. DFG	TR 5 F5 40. DEG	TR 6 F6 50. DFG	TR 7 F7 70. DFG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR 10 F10 135. DEG
50	74.3	56.9	77.1	78.6	78.5	78.3	81.5	83.4	84.3	79.6
63	74.9	55.2	76.3	78.9	80.8	81.7	83.4	86.0	89.8	83.1
80	74.9	57.4	76.4	77.6	79.3	80.0	81.3	83.4	84.6	81.0
100	80.7	59.5	77.9	80.1	80.9	80.9	81.0	82.3	83.7	80.9
125	81.9	61.2	80.7	81.8	82.5	82.1	84.9	85.3	85.6	81.7
160	81.0	60.9	80.4	82.3	82.4	83.5	85.3	85.7	86.2	84.3
200	83.0	63.7	83.4	84.4	84.0	84.4	83.6	85.7	86.5	86.7
250	87.0	66.8	86.7	86.3	85.9	85.4	86.3	86.2	86.1	86.1
315	87.2	66.6	85.6	87.5	86.0	85.8	85.8	85.5	87.9	86.2
400	88.1	68.5	88.5	87.9	86.5	86.9	86.0	86.0	86.8	85.0
500	89.4	70.1	88.6	88.7	88.5	87.9	89.4	89.2	90.8	86.2
630	91.7	71.0	90.5	89.9	89.4	89.7	90.2	89.6	90.8	86.3
800	103.1	73.8	97.8	93.4	91.3	90.4	89.6	88.4	90.1	85.5
1K	91.6	70.7	89.0	89.2	88.9	88.9	89.5	87.4	87.9	83.7
1.25K	92.7	71.7	89.3	90.0	89.4	89.1	88.9	87.0	87.6	82.5
1.6K	96.2	72.5	90.7	91.2	90.3	90.9	89.1	87.3	87.7	81.4
2K	100.8	73.9	96.3	96.4	94.8	93.4	89.6	88.4	88.3	81.0
2.5K	103.7	83.0	98.4	99.3	99.2	96.8	90.9	89.9	89.8	82.6
3.15K	97.3	75.1	93.0	93.1	91.2	90.4	87.0	85.9	86.6	80.3
4K	97.6	76.9	93.7	92.3	91.5	90.2	86.1	84.8	83.5	79.3
5K	98.7	76.8	93.8	92.5	91.1	89.7	85.3	84.5	83.1	78.3
6.3K	96.6	74.0	91.9	90.1	89.0	88.0	84.1	84.1	81.6	83.3
8K	98.2	74.5	92.7	91.7	88.7	87.2	83.5	82.4	80.3	81.0
10K	96.1	71.1	89.0	87.6	86.4	83.2	79.9	78.2	77.8	73.4
63	80.3	61.4	81.4	83.1	84.4	85.0	86.9	89.2	92.7	86.3
125	84.0	65.4	86.6	86.3	86.5	87.1	88.9	89.5	89.4	87.4
250	90.9	70.7	90.2	91.0	90.2	90.0	90.2	90.6	91.1	90.6
500	96.8	74.7	94.1	93.7	93.1	93.6	93.3	93.3	94.6	90.7
1K	103.8	80.8	98.8	96.0	94.8	94.6	94.1	92.4	93.5	88.8
2K	105.8	84.7	100.9	101.4	100.9	99.1	94.7	93.5	93.4	86.5
4K	102.7	81.1	98.3	97.5	96.0	94.9	90.9	89.9	88.6	84.2
8K	101.4	78.2	96.2	94.8	92.6	91.4	87.6	87.0	86.9	85.6
LP-A	110.0	88.2	105.4	104.9	104.0	102.9	100.8	100.2	100.9	97.1
SIL	104.1	82.2	99.4	98.4	97.2	96.2	93.3	91.9	91.8	86.5
ODBA	110.3	88.4	105.6	105.3	104.3	103.0	99.9	98.8	99.0	94.3
PND8	123.8	102.5	119.3	119.6	118.8	117.3	113.7	113.0	112.9	108.0

STOP 0

Add 20.0 dB to all values of F2

Add 10.0 dB to all values of F10

YF-12 INLET NOISE SUPPRESSION
 16147 MAY 23 1960 TEST 10933
 YF-12 INLET NOISE SUPPRESSION
 RUN 125
 SPIKE AFT
 BYPASS DOORS OPEN
 4200 RPM

RUN	62	63	64	65	66	67	68	69
FREQ (MHz)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	113.8	126.8	115.0	117.8	120.2	127.8	119.7	132.0
63	114.6	128.1	115.8	119.1	121.3	129.6	121.1	132.1
80	114.6	128.7	116.3	119.5	122.5	130.9	122.1	131.2
100	114.2	129.1	117.1	120.6	123.2	132.4	123.8	130.6
125	115.6	129.4	117.8	122.7	125.7	134.0	125.0	130.8
160	116.5	129.3	118.9	125.2	128.0	135.3	125.8	130.9
200	119.0	130.0	120.8	127.9	130.3	136.8	126.5	132.6
250	122.7	131.4	125.0	131.0	131.6	137.1	128.6	133.7
315	124.7	134.7	128.4	131.1	130.3	136.4	130.2	133.5
400	123.5	136.7	131.9	128.5	131.3	135.9	132.6	132.8
500	118.7	133.1	134.7	125.7	131.6	134.9	134.6	132.1
630	116.3	128.1	133.8	124.8	131.3	133.5	136.1	132.0
800	124.7	124.5	138.0	129.5	139.2	133.1	136.5	134.4
1K	116.3	119.8	126.5	125.9	133.4	130.8	130.1	131.0
1.25K	117.8	122.1	126.4	126.2	131.6	129.5	131.4	131.0
1.6K	118.7	122.0	130.6	126.9	135.2	128.6	132.4	132.9
2K	124.7	126.7	134.4	130.4	141.8	130.5	136.2	139.1
2.5K	127.8	130.6	139.0	133.8	144.5	134.9	143.1	145.5
3.15K	122.2	125.7	133.1	127.4	137.7	128.5	137.6	138.6
4K	122.8	126.4	132.3	127.4	137.2	127.4	136.6	138.0
5K	124.9	128.1	133.7	128.1	138.4	129.1	139.7	140.2
6.3K	124.2	127.9	132.8	126.5	137.5	129.0	138.7	140.4
8K	124.4	128.0	132.9	125.7	137.5	129.0	139.6	142.4
10K	122.5	125.7	131.5	123.6	135.7	127.6	139.2	142.0
63	119.2	132.7	120.5	123.6	126.2	134.4	125.8	136.6
125	120.3	134.1	122.8	128.0	130.9	138.8	129.7	136.5
250	127.5	137.3	130.5	135.0	135.5	141.6	133.5	138.1
500	125.3	138.6	138.4	131.4	136.2	139.6	139.4	137.1
1K	126.0	127.3	138.6	132.2	140.8	136.1	138.3	137.2
2K	129.9	132.5	140.7	136.0	146.7	136.9	144.2	146.6
4K	128.2	131.6	137.8	132.4	142.5	133.2	142.9	143.8
8K	128.5	132.1	137.2	130.2	141.8	133.4	143.9	146.5
LP-8	135.8	143.5	145.9	141.4	150.0	146.7	149.5	151.4
51L	124.0	130.5	139.1	133.6	143.3	135.4	141.8	142.5
ODBA	135.1	139.9	145.7	140.4	150.4	143.3	149.5	151.2
PNDB	149.6	154.6	159.7	155.2	164.5	158.3	163.7	165.8

Subtract 4.0 dB from all values of K12

YF-12 INLET NOISE SUPPRESSION
 09150 RPM 29.1" AN TPST 1071A
 YF-12 INLET NOISE SUPPRESSION
 RUN 127
 SPIKE AFT
 BYPASS DROUGS OPEN
 4400 RPM

RUN	34	35	36	37	38	39	40	41	42	43
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR 10 F10 135. DEG
50	74.2	78.8	78.7	79.9	79.4	79.7	83.4	85.4	83.1	81.0
63	75.7	76.4	76.3	76.7	73.2	73.7	81.7	83.8	82.1	80.8
80	78.1	78.8	77.6	77.8	79.5	80.5	82.2	83.5	82.0	81.2
100	81.1	80.0	78.2	80.1	81.0	81.4	81.5	83.1	79.6	81.6
125	82.2	81.5	80.9	82.3	83.2	82.4	84.9	85.9	80.3	82.4
160	81.9	81.7	81.4	83.2	82.8	83.9	85.9	87.1	80.3	85.3
200	84.3	85.1	84.7	85.4	85.2	85.3	84.7	86.8	80.7	87.6
250	88.0	88.1	88.2	87.2	86.6	86.1	87.2	86.5	81.8	86.7
315	88.2	87.8	86.6	88.7	87.1	86.9	86.2	86.3	83.6	85.0
400	89.1	89.4	89.7	89.3	87.8	87.9	87.5	87.0	82.4	85.7
500	90.3	91.3	89.6	90.2	89.9	88.8	89.9	89.4	85.4	86.8
630	92.6	91.9	91.4	91.1	90.5	90.4	91.2	90.2	86.3	86.9
800	105.7	101.0	98.6	95.3	94.2	92.0	91.7	90.3	85.4	85.8
1K	93.4	91.8	90.1	90.4	90.1	91.1	90.5	88.2	83.8	84.6
1.25K	92.3	91.6	89.5	90.4	89.9	90.1	89.6	87.8	83.0	83.4
1.6K	94.0	92.5	91.0	91.4	90.6	91.4	89.8	88.4	83.3	82.4
2K	99.7	97.0	95.1	95.1	93.3	92.8	90.1	88.8	83.5	81.4
2.5K	105.0	102.1	99.6	100.4	98.6	97.3	92.1	90.7	85.0	83.2
3.15K	98.2	95.9	94.2	94.2	92.2	91.8	88.1	87.0	80.8	80.5
4K	96.8	96.2	93.3	91.9	91.1	90.4	88.7	85.8	79.6	79.8
5K	98.4	96.5	93.8	92.4	90.8	89.8	85.9	85.1	79.0	78.5
6.3K	94.6	93.1	91.0	89.4	88.4	87.7	84.9	84.7	77.9	82.6
8K	97.1	93.7	91.9	90.9	88.0	86.8	85.2	83.9	77.5	84.9
10K	93.0	90.3	88.4	86.7	83.8	82.9	80.2	78.3	74.0	74.7
50	51.6	82.9	82.4	83.1	83.9	85.0	87.3	89.1	87.2	85.8
125	84.5	85.9	85.2	86.8	87.2	87.4	89.2	90.4	86.8	88.2
250	91.9	92.0	91.5	92.1	91.2	90.9	90.9	91.3	87.0	91.4
500	95.7	95.8	95.1	95.0	94.3	94.1	94.6	93.9	89.8	91.3
1K	106.2	101.9	99.6	97.5	96.6	95.9	95.4	93.7	89.0	89.5
2K	104.4	103.6	101.3	102.1	100.2	99.4	95.5	94.2	88.8	87.2
4K	102.6	101.0	98.6	97.7	96.2	94.5	91.7	90.8	84.6	84.5
8K	100.3	97.4	94.4	94.1	92.0	91.0	88.7	87.8	81.5	87.2
LR-R	110.8	108.0	105.8	105.5	104.1	103.5	101.7	101.0	94.3	97.7
SIL	105.1	102.2	99.8	99.1	97.7	96.9	94.2	92.9	87.5	87.0
80BA	111.1	108.2	106.0	105.8	104.2	103.8	100.9	99.4	94.5	95.0
PHOD	124.5	122.1	120.0	120.2	118.7	117.9	114.7	113.8	108.4	108.7

Add 5.0 dB to all values of F9

Add 10.0 dB to all values of F10

YF-12 INLET NOISE SUPPRESSION
 16147 MAY 23, 1960 TEST 10933
 YF-12 INLET NOISE SUPPRESSION
 RUN 127
 SPIKE AFT
 BYPASS DOORS OPEN
 4400 RPM

FREQ (Hz)	75		76		77		78		79		80		81		82	
	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG	TR 7 K14 0. DEG	TR 8 K12 0. DEG								
50	115.9	127.1	115.9	118.8	121.4	129.2	119.6	132.3								
63	116.3	128.1	116.6	119.8	122.7	130.2	121.6	132.3								
80	116.3	128.7	116.9	120.4	123.9	131.5	122.7	132.0								
100	116.2	129.5	117.6	121.3	124.6	133.0	124.2	131.4								
125	117.5	129.9	118.1	123.1	126.0	134.5	125.2	131.6								
160	118.3	129.9	119.3	125.6	128.7	135.9	126.1	131.9								
200	120.9	130.8	121.8	129.1	131.3	137.3	127.4	133.4								
250	124.4	132.4	125.5	131.8	133.3	138.1	129.3	134.7								
315	126.5	135.8	129.3	131.7	131.8	137.4	131.1	134.5								
400	125.3	137.8	132.9	129.6	132.4	137.3	133.6	134.0								
500	120.7	134.3	135.6	126.8	133.3	136.4	135.9	133.4								
630	118.0	129.3	135.2	126.0	132.6	135.1	137.7	133.5								
800	125.6	125.8	140.4	131.5	138.2	134.6	137.1	136.0								
1K	116.3	120.9	128.7	127.2	134.7	132.5	131.2	132.0								
1.25K	118.8	123.0	127.0	127.2	132.1	131.2	131.4	131.6								
1.6K	119.9	122.6	131.0	127.7	135.6	130.0	133.2	133.3								
2K	124.3	125.7	133.2	129.4	140.5	130.5	135.5	138.5								
2.5K	131.0	133.3	140.4	136.4	146.4	136.8	143.9	148.1								
3.15K	124.7	127.0	135.1	129.3	140.1	130.7	139.8	141.3								
4K	123.4	126.4	132.2	127.5	137.4	128.2	137.3	138.7								
5K	125.8	128.4	133.9	128.4	139.0	129.7	139.4	141.2								
6.3K	124.6	127.7	132.5	126.4	137.8	129.7	139.0	140.7								
8K	124.6	127.8	132.4	125.4	137.4	129.1	139.7	143.2								
10K	123.0	125.7	131.1	123.4	125.8	127.9	139.7	142.1								
63	121.0	132.8	121.2	124.5	127.6	135.2	126.3	137.0								
125	122.2	134.5	123.1	128.5	131.8	139.4	130.0	136.4								
250	129.3	138.3	131.3	135.8	137.0	142.4	134.3	139.0								
500	127.1	139.8	139.5	132.5	137.4	141.1	140.8	138.4								
1K	127.0	128.5	140.8	133.9	140.5	137.8	138.9	138.5								
2K	132.1	134.3	141.6	137.6	147.7	138.4	144.8	148.7								
4K	129.5	132.1	138.7	133.2	143.8	134.5	143.8	145.3								
8K	128.9	131.9	136.8	130.0	141.9	133.7	144.3	146.9								
LP-8	137.4	144.4	146.9	142.5	150.9	147.8	150.2	152.7								
5IL	129.5	131.6	140.4	134.9	144.0	136.9	142.5	144.2								
00BA	136.7	141.0	146.7	141.7	151.3	144.6	150.2	152.8								
PR06	151.7	156.0	160.7	156.7	165.8	159.7	164.4	167.5								

Subtract 4.0 dB from all values of K12

YF-12 INLET NOISE SUPPRESSION
 10111 APR 29, 1980 TEST 1071A
 YF-12 INLET NOISE SUPPRESSION
 RUN 129
 SPIKE 4FT
 BYPASS DRUMS 8PFN
 4600 RPM

RUN	45	46	47	48	49	50	51	52	53	54
FREQ (Hz)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 60. DEG	TR 8 F8 70. DEG	TR 9 F9 80. DEG	TR 10 F10 90. DEG
50	79.2	81.2	81.0	81.7	81.4	81.4	85.3	87.1	82.8	83.1
63	78.1	78.2	77.9	77.9	79.7	82.4	83.2	85.1	81.3	81.8
80	79.1	79.2	78.5	79.0	80.7	81.4	82.5	84.4	81.2	82.9
100	82.3	80.9	79.4	81.2	81.6	82.4	82.3	84.5	78.7	82.2
125	83.4	82.7	82.0	83.2	83.6	83.5	85.2	86.8	78.8	83.1
160	82.9	82.5	82.4	84.1	83.8	85.4	87.4	87.7	79.2	86.2
200	85.4	86.1	85.5	86.5	86.1	86.5	85.8	87.4	79.2	88.4
250	89.0	89.0	89.1	88.3	87.9	87.1	88.1	87.4	80.5	87.4
315	89.2	88.8	87.6	89.7	88.5	87.9	87.3	87.1	81.7	86.0
400	90.7	90.9	91.2	90.8	89.3	88.9	88.9	88.3	80.8	86.3
500	91.5	92.3	90.4	91.1	90.6	90.1	90.4	90.1	83.7	87.2
630	93.2	92.9	92.4	91.9	91.4	91.5	91.4	90.6	84.4	87.4
800	104.1	102.2	96.2	95.3	94.7	93.4	92.1	91.0	83.3	86.4
1K	94.1	93.5	90.9	91.7	91.5	91.9	91.4	89.9	82.5	85.6
1.25K	92.5	92.1	90.1	91.2	90.9	90.8	90.4	89.0	81.1	84.0
1.6K	94.3	92.6	91.2	92.0	91.4	92.1	90.5	89.3	81.1	82.5
2K	99.1	96.2	94.4	94.3	93.1	93.0	90.8	89.5	81.1	81.8
2.5K	105.6	102.5	100.5	100.2	99.0	97.8	92.6	91.4	82.7	88.0
3.15K	99.8	97.4	96.0	96.0	94.3	94.1	89.6	88.7	79.5	81.9
4K	96.8	95.7	93.3	92.1	91.5	91.0	87.3	86.5	77.4	79.8
5K	98.5	95.9	93.7	92.4	91.1	90.4	86.2	85.6	76.8	79.2
6.3K	95.2	92.5	90.6	89.2	88.7	88.1	85.0	84.9	75.7	82.3
8K	94.2	92.8	91.2	90.2	88.0	86.9	84.0	83.4	74.6	87.2
10K	92.3	89.5	87.9	86.2	83.9	82.8	80.4	78.9	72.1	74.5
63	83.6	84.5	84.1	84.4	85.4	86.7	88.6	90.4	86.6	87.4
125	87.6	86.8	86.2	87.8	87.9	88.8	90.2	91.3	83.7	89.0
250	92.9	92.9	92.4	93.1	92.4	92.0	91.9	92.1	85.4	92.1
500	94.7	96.9	96.2	96.1	95.3	95.0	95.1	94.5	88.0	91.7
1K	104.7	103.1	98.1	97.9	97.5	97.0	96.1	94.8	87.2	90.2
2K	106.8	103.8	101.8	101.7	100.5	99.9	96.1	95.0	86.4	87.6
4K	103.3	101.2	99.3	98.4	97.3	96.9	92.7	91.9	82.8	85.2
8K	99.6	96.6	94.9	93.6	92.1	91.2	89.2	88.4	80.0	88.7
LP-A	110.6	108.4	106.0	105.7	104.4	104.3	102.4	101.9	96.7	98.6
SIL	104.9	102.7	99.7	99.4	98.4	97.9	95.0	93.9	85.5	87.7
80DBA	111.0	108.6	106.2	105.9	104.8	104.3	101.6	100.5	92.5	95.8
PADB	124.9	122.5	120.6	120.3	119.2	118.6	115.4	114.6	106.4	109.4

*STOP n
 Add 5.0 dB to all values of F9

Add 10.0 dB to all values of F10

YF-12 INLET NOISE SUPPRESSION
 16147 MAY 23, 1960 TEST 10933
 YF-12 INLET NOISE SUPPRESSION
 RUN 129
 SPIKE AT
 BYPASS DOORS OPEN
 8600 RPM

FREQ (HZ)	86		87		88		89		90		91		92		93	
	TR 1 K1 O. DEG	T 2 K6 O. DEG	TN 3 K3 O. DEG	TN 4 K8 O. DEG	TN 5 K5 O. DEG	TN 6 K10 O. DEG	TR 7 K4 O. DEG	TR 8 K12 O. DEG								
50	114.7	127.2	115.5	119.2	122.4	129.6	120.4	132.9								
63	115.5	128.8	116.7	120.3	123.4	131.2	121.8	132.7								
80	116.0	129.1	117.0	120.8	124.6	132.4	123.3	132.3								
100	115.6	130.2	117.8	121.8	125.6	133.8	124.7	131.7								
125	116.9	130.5	118.6	123.8	127.9	135.0	125.6	132.0								
160	118.3	131.0	119.8	126.5	129.9	136.1	126.8	132.5								
200	120.5	131.6	122.3	129.7	132.3	137.6	128.2	134.4								
250	124.5	133.3	126.4	132.8	134.5	138.9	130.3	135.7								
315	126.4	136.8	130.0	132.5	133.4	138.6	132.1	135.3								
400	125.8	139.0	134.3	130.9	133.8	138.2	134.2	135.4								
500	121.3	135.6	136.9	127.9	134.3	137.9	137.1	134.8								
630	118.2	130.7	136.5	127.1	134.2	136.6	139.2	135.1								
800	126.3	128.1	137.8	134.7	142.8	136.1	137.5	137.1								
1K	119.7	122.4	129.5	129.0	136.8	134.1	132.4	133.2								
1.25K	118.9	124.0	128.0	128.3	133.3	132.7	132.0	132.4								
1.6K	119.7	123.1	132.0	128.6	136.3	131.4	134.0	134.1								
2K	123.1	125.1	133.2	129.5	140.3	131.2	135.8	138.3								
2.5K	131.6	132.8	142.3	136.4	147.4	136.8	145.2	146.1								
3.15K	126.2	128.8	137.6	131.8	143.2	133.4	142.2	143.8								
4K	122.9	126.6	132.7	128.1	138.7	129.4	139.1	139.9								
5K	125.0	128.3	134.0	128.7	139.5	130.3	140.2	142.0								
6.3K	123.8	127.6	132.9	126.9	138.4	130.7	139.9	141.6								
8K	123.2	127.2	132.0	125.1	137.4	129.3	140.1	142.4								
10K	121.8	125.5	131.0	123.4	136.0	128.3	140.0	142.2								

63	120.2	133.2	121.2	124.9	128.3	136.0	126.7	137.4								
125	121.8	135.3	123.6	129.2	132.9	139.9	130.6	136.9								
250	129.2	139.2	132.0	136.6	138.2	143.2	135.2	139.9								
500	127.6	141.1	140.8	133.7	138.9	142.4	142.1	139.9								
1K	127.8	130.3	138.8	136.5	144.1	139.3	139.5	139.5								
2K	132.4	133.9	143.1	137.8	148.4	138.7	146.0	147.0								
4K	129.7	132.8	140.1	134.6	145.7	136.2	145.4	147.0								
8K	127.8	131.6	136.8	130.2	142.2	134.3	144.8	146.9								

LP-6	137.4	145.3	147.6	143.5	152.2	148.7	151.3	152.7								
51L	130.0	132.3	140.7	136.3	146.1	138.1	143.6	144.5								
80BA	136.9	141.6	147.6	142.6	152.6	145.7	151.4	152.6								
PMOB	151.9	156.2	161.6	157.3	166.9	160.3	165.6	167.0								

Subtract 4.0 dB from all values of K12

YF-12 INLET NOISE SUPPRESSION
 16147 MAY 23, 1960 TEST 10933
 YF-12 INLET NOISE SUPPRESSION
 RUN 129

SPIKE AFT
 BYPASS DOORS OPEN
 4600 RPM

FREQ (MC)	86		87		88		89		90		91		92		93	
	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K4 O. DEG	TR 8 K12 O. DEG								
50	114.7	127.2	115.5	119.2	122.4	129.6	120.4	132.9								
63	115.5	128.8	116.7	120.3	123.4	131.2	121.8	132.7								
80	116.0	129.1	117.0	120.8	124.6	132.4	123.3	132.3								
100	115.6	130.2	117.8	121.8	125.6	133.8	124.7	131.7								
125	116.9	130.5	118.6	123.8	127.9	135.0	125.6	132.0								
160	118.3	131.0	119.8	126.5	129.9	136.1	126.8	132.5								
200	120.5	131.6	122.3	129.7	132.3	137.6	128.2	134.4								
250	124.5	133.3	126.4	132.8	134.5	138.9	130.3	135.7								
315	126.4	136.8	130.0	132.5	133.4	138.6	132.1	135.3								
400	125.8	139.0	134.3	130.9	133.8	138.2	134.2	135.4								
500	121.3	135.6	136.9	127.9	134.3	137.9	137.1	134.8								
630	118.2	130.7	136.5	127.1	134.2	136.6	139.2	135.1								
800	126.3	124.1	137.8	134.7	142.8	136.1	147.5	137.1								
1K	119.7	122.4	129.5	129.0	136.8	134.1	132.4	133.2								
1.25K	118.9	124.0	128.0	128.3	133.3	132.7	132.0	132.4								
1.6K	119.7	123.1	132.0	128.6	136.3	131.4	134.0	134.1								
2K	123.1	125.1	133.2	129.5	140.3	131.2	135.8	138.3								
2.5K	131.6	132.8	142.3	136.4	147.4	136.8	145.2	146.1								
J.15K	126.2	128.8	137.6	131.8	143.2	133.4	142.2	143.8								
4K	122.9	126.6	132.7	128.1	138.7	129.4	139.1	139.9								
5K	125.0	128.3	134.0	128.7	139.5	130.3	140.2	142.0								
6.3K	123.8	127.6	132.9	126.9	138.4	130.7	139.9	141.6								
8K	123.2	127.2	132.0	125.1	137.4	129.3	140.1	142.4								
10K	121.8	125.5	131.0	123.4	136.0	128.3	140.0	142.2								
63	125.2	133.2	121.2	124.9	128.3	136.0	126.7	137.4								
125	121.8	135.3	123.6	129.2	132.9	139.9	130.6	136.9								
250	129.2	139.2	132.0	136.6	138.2	143.2	135.2	139.9								
500	127.6	141.1	140.8	133.7	138.9	142.6	142.1	139.9								
1K	127.8	130.3	138.8	136.5	144.1	139.3	139.5	139.5								
2K	132.4	133.9	143.1	137.8	148.4	138.7	146.0	147.0								
4K	129.7	132.8	140.1	134.6	145.7	136.2	145.4	147.0								
8K	127.8	131.6	136.8	130.2	142.2	134.3	144.8	146.9								
LP-6	137.4	145.3	147.6	143.5	152.2	148.7	151.3	152.7								
SIL	130.0	132.3	140.7	136.3	146.1	138.1	143.6	144.5								
ODBA	136.9	141.6	147.6	142.6	152.6	145.7	151.4	152.6								
PNUB	151.9	156.2	161.6	157.3	166.9	160.3	165.6	167.0								

Subtract 4.0 dB from all values of K12

YF-12 INLET NOISE SUPPRESSION
 1013R APR 29, 60 TFST 1071A
 YF-12 INLET NOISE SUPPRESSION
 RUN 131
 SPIKE AFT
 BYPASS DOORS OPEN
 4800 RPM

RUN	56	57	58	59	60	61	62	63	64	65
FREQ (Hz)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR 10 F10 135. DEG
50	79.9	81.8	81.6	82.6	82.2	82.7	86.3	87.8	81.0	84.1
63	79.5	79.5	79.0	79.1	81.1	84.1	84.4	86.4	80.3	82.6
80	79.9	80.2	79.3	79.6	81.8	83.8	83.1	85.2	78.4	82.7
100	82.7	81.3	80.0	81.7	82.3	83.3	82.8	85.1	77.6	83.2
125	83.9	82.9	82.3	83.4	84.1	84.9	84.2	87.8	77.9	83.9
160	83.4	82.9	82.6	84.4	84.2	85.9	87.8	87.8	77.5	84.7
200	86.2	86.9	86.4	87.0	86.8	87.2	86.7	88.0	78.0	84.8
250	90.1	89.9	89.8	88.9	88.5	87.9	88.8	87.8	79.1	87.8
315	90.0	89.5	88.2	90.3	89.2	88.4	87.9	87.7	80.3	86.6
400	91.4	92.0	92.4	92.1	90.0	89.4	90.6	89.3	79.7	87.0
500	92.5	93.1	91.4	92.8	91.3	90.4	91.0	90.4	81.8	87.7
630	94.0	93.8	93.2	93.0	92.1	92.1	92.0	91.3	83.0	88.3
800	99.9	97.3	95.4	95.2	93.2	93.1	92.1	90.5	81.8	87.1
1K	94.3	93.8	92.1	93.2	92.6	92.8	92.2	90.3	81.2	86.6
1.25K	93.0	92.5	90.7	91.8	91.4	91.6	91.2	89.8	79.9	84.9
1.6K	94.6	92.8	91.5	92.3	91.7	92.7	91.0	89.7	80.3	83.8
2K	98.7	96.0	94.2	94.0	92.7	93.1	91.0	89.8	79.9	82.5
2.5K	105.0	101.9	100.2	99.3	97.8	97.0	92.1	91.0	80.4	83.7
3.15K	100.8	98.8	97.6	97.4	95.2	95.2	90.6	89.4	78.4	82.8
4K	97.0	95.9	94.8	92.7	91.4	91.6	88.2	87.8	76.4	81.0
5K	98.2	95.6	93.5	92.3	90.5	90.1	86.8	85.7	74.9	79.7
6.3K	95.2	92.5	90.6	89.3	88.6	88.3	85.1	84.9	73.9	80.9
8K	95.7	92.5	91.0	90.1	87.8	87.2	87.0	86.5	76.6	88.2
10K	92.1	89.4	87.8	86.2	83.6	82.9	80.9	79.7	71.2	78.8
63	84.6	85.4	84.9	85.8	86.5	88.3	89.6	91.4	86.8	88.0
125	88.1	87.2	88.6	88.2	88.4	89.4	90.8	91.8	82.4	89.7
250	93.8	93.7	93.1	93.7	93.0	92.6	92.7	92.6	84.0	92.6
500	97.6	97.8	97.2	97.3	98.0	95.7	96.0	95.2	86.8	92.4
1K	101.6	99.8	98.0	98.4	97.2	97.3	96.6	94.9	85.8	91.1
2K	106.2	103.3	101.6	101.1	99.7	99.4	96.2	95.0	85.0	88.2
4K	103.8	101.8	100.2	99.8	97.7	97.8	93.6	92.7	81.6	84.1
8K	99.4	96.4	94.8	93.4	91.9	91.6	89.8	89.3	79.2	89.4
LP-8	109.9	107.8	106.3	106.0	104.6	104.8	103.0	102.3	93.2	99.2
SIL	103.8	101.6	99.9	99.7	98.2	98.1	95.5	94.2	86.1	88.4
ODRA	110.4	108.0	106.4	106.0	104.6	104.8	102.0	100.9	91.1	96.5
PNOB	124.5	122.2	120.6	120.2	118.8	118.8	115.6	114.8	104.7	110.0

Add 5.0 dB to all values of F9

Add 10.0 dB to all values of F10

YF-12 INLET NOISE SUPPRESSION
 16156 MAY 23, 1960 TEST 109J3
 YF-12 INLET NOISE SUPPRESSION
 RUN 131
 SPIKE ALT
 BYPASS DOORS OPEN
 4800 RPM

FREQ (Hz)	98		99		100		101		102		103		104		105	
	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	116.3	128.4	117.0	119.8	123.5	130.3	120.5	132.9								
63	117.2	129.5	118.0	121.2	125.1	131.9	122.3	132.9								
80	117.7	130.3	118.0	121.7	125.7	133.6	123.7	132.7								
100	117.4	130.7	118.9	122.8	126.7	134.2	125.3	132.5								
125	118.3	131.5	119.4	124.8	129.0	135.3	126.1	132.6								
160	119.5	131.7	120.7	127.5	130.9	136.4	126.9	133.4								
200	122.4	132.7	123.1	130.9	133.2	137.8	128.9	135.0								
250	126.3	134.4	127.2	133.7	135.5	139.3	130.8	136.5								
315	128.0	138.2	130.8	133.2	134.9	139.6	132.9	136.4								
400	128.0	140.4	135.4	132.3	135.4	139.2	135.2	136.8								
500	123.3	136.9	137.8	129.4	135.9	138.9	138.5	135.9								
630	120.4	132.0	137.7	128.4	135.7	137.8	140.5	136.8								
800	125.3	126.7	135.6	129.9	141.0	136.8	138.3	138.0								
1K	122.2	123.6	130.6	130.2	137.9	135.3	133.6	134.4								
1.25K	120.5	124.9	129.3	129.8	134.9	134.1	133.0	133.5								
1.6K	120.9	123.4	132.5	129.7	137.3	132.8	134.8	135.1								
2K	123.9	125.1	133.4	129.9	140.6	132.2	136.2	138.5								
2.5K	131.3	132.0	140.4	136.1	146.9	135.6	144.7	146.6								
3.15K	128.7	130.1	138.9	133.5	145.0	135.1	144.0	146.0								
4K	124.3	127.1	133.4	129.4	140.1	131.1	140.8	141.7								
5K	125.5	127.9	133.6	128.9	139.7	130.9	140.7	142.7								
6.3K	124.7	127.6	133.1	127.7	139.1	131.5	141.1	143.0								
8K	123.9	127.0	131.9	125.7	137.9	130.3	141.0	143.0								
10K	122.7	125.6	131.0	124.1	136.6	129.5	140.9	143.0								
63	121.9	134.2	122.5	126.7	129.6	136.9	127.2	137.6								
125	123.2	136.1	124.5	130.2	133.9	140.2	130.9	137.6								
250	130.9	140.5	132.9	137.5	139.4	143.8	136.0	140.8								
500	129.8	142.4	141.9	135.1	140.4	143.5	143.4	141.2								
1K	127.9	130.0	137.5	134.7	143.4	140.3	140.4	140.5								
2K	132.3	133.3	141.8	137.8	148.2	138.5	145.7	147.6								
4K	137.4	133.3	140.9	135.9	147.1	137.6	146.9	148.6								
8K	128.6	131.6	136.9	130.8	142.8	135.3	145.7	147.8								
LP-8	138.4	146.2	147.5	143.9	152.6	149.5	152.1	153.7								
51L	130.5	132.2	140.1	136.1	146.2	138.8	144.3	145.5								
000K	137.6	142.2	147.2	142.8	152.9	148.4	152.1	153.8								
PNDB	152.4	156.3	161.2	157.5	167.1	160.6	166.0	167.9								
STOP 0																

Subtract 4.0 dB from all values of K12

YF-12 INLET NOISE SUPPRESSION
 14116 FEB 14, 80 TEST 10021
 YF-12 INLET NOISE SUPPRESSION
 RUN 132
 SPIKE AFT
 BYPASS DOORS OPEN
 5000 RPM

	23	24	25	26	27	28	29	30	31	32
FREQ (HZ)	TR 1 F1 0° DEG	TR 2 F2 10° DEG	TR 3 F3 20° DEG	TR 4 F4 20° DEG	TR 5 F5 40° DEG	TR 6 F6 50° DEG	TR 7 F7 70° DEG	TR 8 F8 90° DEG	TR 9 F9 110° DEG	TR 10 F10 135° DEG
50	80.1	82.2	81.8	82.4	81.9	82.1	84.0	87.5	85.7	94.7
63	79.2	79.7	79.4	79.2	62.1	84.7	84.7	87.0	85.6	93.2
80	81.0	81.0	80.4	80.9	83.1	84.7	84.7	86.3	84.2	93.9
100	83.0	81.5	80.4	82.2	82.8	83.7	83.1	85.4	82.7	93.9
125	84.2	83.2	83.0	84.5	84.9	85.0	86.7	88.0	82.8	94.5
160	84.1	83.6	83.1	84.7	84.6	86.5	88.1	88.3	82.3	97.6
200	87.3	87.7	87.1	87.8	87.6	88.0	87.7	88.8	83.5	99.7
250	91.2	90.9	90.8	90.0	89.7	88.4	89.4	88.6	84.2	98.7
315	91.2	90.5	89.2	91.0	89.7	89.1	89.0	88.4	85.3	97.4
400	92.6	92.7	93.5	92.4	90.7	90.9	91.4	89.7	85.1	97.8
500	93.4	93.9	92.5	93.4	92.5	91.5	92.0	91.0	87.4	97.7
630	95.4	95.1	94.6	94.5	93.8	93.5	93.2	92.3	89.0	98.3
800	98.2	96.9	94.7	94.5	93.1	93.5	92.8	91.1	88.1	97.1
1K	95.0	94.7	93.1	93.6	93.2	93.4	93.0	91.2	87.0	96.8
1.25K	93.6	93.1	91.6	92.6	92.2	92.5	91.6	90.4	86.0	94.8
1.6K	95.0	93.2	92.1	93.0	92.2	93.5	91.5	90.3	85.5	92.8
2K	98.6	95.8	94.3	94.1	92.9	93.5	91.4	90.4	85.5	92.6
2.5K	103.8	101.1	99.6	98.8	96.7	94.4	91.9	90.8	85.4	93.4
3.15K	101.3	99.2	98.2	98.0	95.5	95.4	91.3	90.3	84.0	92.4
4K	97.4	95.9	94.4	93.4	92.2	92.4	88.9	88.3	82.2	90.6
5K	97.7	94.7	93.2	92.0	90.2	90.3	86.8	86.2	80.6	89.6
6.3K	94.7	91.9	90.5	89.1	88.3	88.4	85.1	85.0	78.4	89.9
8K	94.5	91.4	90.3	89.8	87.4	87.2	87.3	87.2	81.9	98.8
10K	91.2	88.2	87.0	85.5	83.0	82.8	81.5	80.4	76.8	92.7
63	84.9	85.8	85.4	85.9	87.2	88.8	89.9	91.8	89.9	98.8
125	88.5	87.4	87.1	88.7	88.9	90.0	91.2	92.2	87.4	100.4
250	95.0	94.7	94.1	94.5	93.8	93.3	93.6	93.5	89.2	103.5
500	98.7	98.8	98.4	98.3	97.0	96.9	97.1	95.9	92.2	102.7
1K	100.8	99.9	98.1	98.4	97.6	97.9	97.3	95.7	91.9	101.1
2K	105.4	102.7	101.3	100.7	99.2	99.5	96.4	95.2	90.2	97.2
4K	103.9	101.8	100.6	100.1	98.0	98.1	94.2	93.3	87.2	95.8
8K	98.8	95.4	94.3	93.1	91.6	91.8	90.0	89.8	84.4	100.2
LP-8	109.5	107.7	106.5	106.2	104.8	105.0	103.4	102.9	94.7	109.7
8IL	103.4	101.5	100.0	99.7	98.3	98.5	98.9	94.8	89.8	98.2
8UBA	109.9	107.5	106.5	106.1	104.6	104.8	102.6	101.5	96.8	104.6
PNDB	124.0	121.9	120.6	120.2	118.5	118.6	116.0	115.2	110.1	120.4
*STDP: D										

YF-12 INLET NOISE SUPPRESSION
 09141 MAY 23, '80 TEST 10933
 YF-12 INLET NOISE SUPPRESSION
 RUN 133

SPIKE AFT
 BYPASS DOWNS OPEN
 5000 RPM

HUN	109	110	111	112	113	114	115	116
FREQ (Hz)	TR 1 K1 Q: DEG	TR 2 K6 Q: DEG	TR 3 K3 Q: DEG	TR 4 K8 Q: DEG	TR 5 K5 Q: DEG	TR 6 K10 Q: DEG	TR 7 K10 Q: DEG	TR 8 K12 Q: DEG
50	115.9	129.4	117.1	120.3	124.6	131.6	121.1	133.2
63	117.2	130.2	118.5	121.2	126.2	133.2	122.8	133.6
80	117.6	131.4	118.6	122.0	127.1	134.1	124.3	133.4
100	117.6	132.1	119.5	123.4	128.3	135.1	125.6	133.3
125	118.2	132.7	120.2	125.0	130.4	136.2	126.8	133.3
160	118.7	132.9	121.3	127.3	131.8	136.8	128.1	133.8
200	122.5	134.0	124.1	131.3	134.4	138.2	129.6	135.8
250	126.1	135.9	128.3	134.0	136.3	139.8	131.9	137.7
315	126.0	137.4	131.7	133.5	136.8	140.8	133.7	137.4
400	128.0	141.4	136.3	132.8	137.0	140.5	136.0	137.8
500	123.5	138.4	139.1	130.3	137.9	140.5	139.7	137.1
630	121.0	133.7	139.1	128.9	138.0	139.4	142.2	138.3
800	122.9	127.0	135.5	129.4	142.6	138.4	139.6	139.3
1K	122.2	124.9	131.5	130.9	139.4	137.1	135.1	135.9
1.25K	120.8	126.2	130.8	130.7	138.9	135.9	134.8	135.1
1.6K	121.0	124.4	133.6	130.3	139.0	134.6	136.1	136.5
2K	123.3	125.1	133.9	130.0	141.5	133.9	137.2	139.2
2.5K	129.3	130.9	139.1	134.1	146.3	135.0	143.4	145.8
3.15K	128.6	130.8	139.3	133.3	146.1	135.8	145.7	148.1
4K	124.5	128.1	134.7	130.0	142.0	133.1	143.1	143.9
5K	124.6	127.6	133.7	128.4	140.4	132.3	141.7	142.9
6.3K	123.9	127.4	133.1	127.0	139.8	132.5	142.5	144.4
8K	122.6	126.6	131.8	124.9	138.4	131.5	142.0	143.6
10K	121.4	125.2	130.8	123.1	136.9	130.5	141.8	143.4
12.5K	121.7	139.2	122.9	126.0	130.8	137.8	127.7	138.2
16K	123.0	137.3	125.2	130.3	135.2	140.9	131.7	138.3
20K	130.9	141.8	133.8	137.9	140.7	144.5	136.8	141.8
250	129.9	143.6	143.1	135.7	142.5	144.9	144.8	142.5
1K	126.8	130.9	137.9	135.2	145.0	142.0	141.9	141.9
2K	130.8	132.6	141.1	136.6	148.1	139.3	144.9	146.9
4K	131.1	133.9	141.4	135.8	148.3	138.8	148.5	150.4
8K	127.5	131.3	136.8	130.1	143.3	136.4	146.8	148.6
LP-8	137.8	147.3	147.9	143.8	153.4	150.6	153.1	154.7
SIL	129.6	132.4	140.1	135.9	147.1	140.0	145.1	146.4
WDGA	136.8	143.0	147.4	142.5	153.8	147.7	153.0	154.6
PNDB	151.5	156.7	161.4	156.8	167.8	161.7	167.3	169.4

*STOP 0

Subtract 4.0 dB from all values of K12

YF-12 INLET NOISE SUPPRESSION
 12117 APR 29, '60 TEST 1071A
 YF-12 INLET NOISE SUPPRESSION
 RUN 13A
 SPIKE AFT
 BYPASS DRONE OPEN
 5400 RPM

RUN	68	69	70	71	72	73	74	75	76	77
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR 10 F10 135. DEG
50	62.1	81.0	82.7	84.3	83.2	83.7	86.9	88.5	82.6	87.5
63	62.7	83.2	83.1	83.0	85.0	87.8	87.5	89.8	82.1	85.9
80	62.9	83.4	82.7	83.2	85.2	86.5	87.3	88.8	80.3	86.1
100	85.3	84.5	83.0	84.6	85.1	86.3	86.7	88.3	79.6	86.6
125	85.5	84.9	84.3	85.7	85.2	85.4	86.3	87.3	78.9	87.0
160	85.1	84.6	83.8	85.4	85.0	86.5	86.4	89.0	80.5	89.1
200	87.6	87.8	87.9	88.5	88.6	89.6	88.8	89.9	80.9	91.3
250	92.3	91.7	91.5	90.3	90.4	89.4	90.0	89.6	81.0	90.0
315	92.6	91.9	90.1	91.6	90.7	90.1	89.2	89.3	80.6	88.8
400	94.2	94.1	94.2	93.2	91.7	91.5	89.7	89.4	80.2	88.7
500	94.7	95.4	93.6	94.2	93.0	91.7	90.9	89.2	81.6	88.5
630	94.6	96.3	95.7	94.4	93.1	92.2	91.4	90.4	81.2	85.7
800	95.2	95.9	93.6	93.1	91.8	92.0	90.6	89.8	80.7	84.3
1K	95.8	95.6	92.7	92.6	91.8	92.0	91.5	90.4	81.0	86.3
1.25K	94.7	94.6	92.0	92.5	91.8	92.1	91.2	90.1	79.8	86.6
1.6K	95.3	93.9	91.8	92.1	91.5	92.4	90.1	89.2	79.6	82.0
2K	57.7	95.6	93.8	93.1	92.0	92.4	90.0	89.9	79.1	81.1
2.5K	101.3	99.2	97.8	96.2	94.5	94.3	90.0	89.7	78.4	80.8
3.15K	100.5	98.8	97.7	97.0	94.3	94.3	90.3	89.8	77.4	80.8
4K	97.1	96.0	94.4	93.0	91.9	92.0	88.8	88.8	76.2	80.1
5K	95.8	93.8	92.2	90.6	89.1	89.5	86.9	86.7	75.5	79.4
6.3K	93.0	90.9	89.5	87.4	87.0	87.2	84.2	84.9	75.5	79.2
8K	93.0	90.3	89.4	88.1	86.6	86.3	84.8	87.2	74.4	87.1
10K	89.6	87.3	86.2	84.5	82.7	82.4	83.0	82.8	78.7	86.8

63	67.4	88.4	87.6	88.3	89.3	91.1	92.0	93.8	86.5	91.3
125	90.1	89.4	88.5	90.1	89.9	90.9	92.6	93.7	86.5	92.4
250	96.1	95.6	94.9	95.1	94.7	94.5	94.1	94.4	85.5	94.9
500	100.1	100.1	99.4	98.8	97.4	96.4	95.5	94.5	85.8	91.9
1K	100.0	100.2	97.6	97.4	96.4	96.8	95.9	94.9	85.3	90.0
2K	103.6	101.6	100.0	99.0	97.6	98.0	94.8	94.4	83.9	84.1
4K	103.0	101.4	100.1	99.1	97.0	97.1	93.7	93.4	81.3	86.9
8K	98.9	94.6	93.4	91.7	90.6	90.6	89.7	90.1	81.9	90.3

LP-A	108.7	107.6	106.1	105.5	104.3	104.4	102.9	102.9	93.7	100.2
SIL	102.2	101.1	99.2	98.5	97.1	97.3	94.8	94.2	83.5	87.0
SDHA	108.8	107.4	105.9	105.0	103.6	103.7	101.4	100.8	90.7	95.9
PNDB	122.7	121.4	120.1	119.4	117.7	117.8	115.3	115.1	104.5	109.8

Add 5.0 dB to all values of F9

Add 10.0 dB to all values of F10

YF-12 INLET NOISE SUPPRESSION
 09:58 MAY 23, '60 TEST 10933
 YF-12 INLET NOISE SUPPRESSION
 RUN 13

SPIKE AFT
 BYPASS DOORS OPEN
 5400 RPM

FREQ (Hz)	120		121		122		123		124		125		126		127	
	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG	TR 7 K14 0. DEG	TR 8 K12 0. DEG								
50	117.5	129.6	117.9	120.3	126.0	133.0	121.9	129.4								
63	118.8	130.9	119.2	122.0	126.0	133.8	123.6	129.8								
80	119.4	132.0	119.6	123.0	129.1	135.2	124.7	130.2								
100	119.6	132.9	120.5	124.0	130.3	136.4	126.4	131.0								
125	120.4	133.4	121.1	125.8	132.1	137.6	127.7	132.2								
160	120.2	134.1	122.4	128.4	133.3	137.8	128.5	133.6								
200	124.4	135.4	125.0	132.2	135.7	139.0	130.5	136.2								
250	128.3	137.4	129.7	135.3	137.4	140.0	132.3	138.4								
315	130.4	140.7	133.0	137.6	138.8	141.6	134.6	138.9								
400	130.2	142.8	137.6	133.8	139.6	142.3	137.2	139.6								
500	126.0	140.1	140.7	132.4	140.8	141.9	141.5	139.2								
630	123.5	135.2	141.1	130.7	141.6	141.1	144.3	141.0								
800	123.0	128.4	136.8	130.6	145.7	140.5	141.7	141.3								
1K	123.4	126.5	133.0	132.7	141.7	139.3	137.8	138.0								
1.25K	123.6	128.2	133.2	133.0	139.8	138.3	137.1	137.1								
1.6K	123.3	125.8	135.5	132.1	141.5	137.2	138.4	138.6								
2K	124.8	126.0	155.0	131.2	143.4	136.2	138.9	140.5								
2.5K	126.9	129.7	138.2	133.2	146.3	136.4	143.3	144.3								
J. 1.5K	129.3	130.9	138.9	133.1	147.0	136.9	148.2	149.0								
4K	126.2	128.9	135.8	131.3	144.3	136.2	145.8	146.6								
5K	125.5	127.9	134.2	129.3	142.4	135.4	144.4	145.0								
6.3K	124.6	127.8	133.3	127.5	141.1	135.0	144.6	145.9								
8K	123.4	127.3	132.2	125.5	139.7	134.1	144.0	145.2								
10K	122.4	126.2	131.1	123.8	138.3	133.1	143.7	144.7								
15	123.4	139.8	123.7	126.7	132.8	138.8	128.3	134.6								
125	124.9	138.3	126.2	131.2	136.8	142.1	132.4	137.1								
250	133.1	143.2	135.1	139.0	142.3	145.1	137.6	142.8								
500	132.2	145.1	144.8	137.3	145.5	146.6	146.6	144.8								
1K	128.3	132.5	139.5	137.0	147.9	144.2	144.1	143.9								
2K	131.1	132.3	141.3	137.0	148.9	141.4	145.5	146.6								
4K	132.1	134.2	141.5	136.3	149.8	141.0	151.2	152.0								
8K	128.4	131.9	137.1	130.7	144.6	138.9	148.9	150.1								
LP-8	139.3	148.5	148.8	144.8	155.1	152.1	155.1	155.9								
SIL	130.5	133.0	140.7	136.8	148.9	142.2	147.0	147.5								
NOBA	137.8	144.1	148.1	143.4	155.1	149.7	155.1	155.8								
PNDB	152.6	157.7	161.7	157.4	169.2	163.3	169.4	170.4								

*STEP# 0

Subtract 4.0 dB from all values of K12

YF-12 INLET NOISE SUPPRESSION
 15152 APR 29, '80 TEST 10716
 YF-12 INLET NOISE SUPPRESSION
 RUN 135
 SPIKE AFT
 BYPASS DOORS OPEN
 5800 RPM

RUN	79	80	81	82	83	84	85	86	87	88
FREQ (Hz)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR10 F10 135. DEG
50	80.4	81.4	80.7	82.4	82.1	83.1	85.1	86.0	77.9	87.1
63	83.0	83.6	83.4	83.4	85.3	88.3	88.0	90.0	81.8	86.8
80	82.7	83.6	82.7	83.1	85.3	86.2	86.6	88.7	80.5	86.8
100	85.8	84.9	83.1	85.3	84.1	87.3	87.4	89.7	80.3	87.3
125	86.1	85.3	84.6	85.9	85.9	86.6	89.0	90.5	80.2	88.6
160	86.2	85.6	85.1	86.6	85.9	87.8	90.3	90.4	79.2	90.7
200	88.2	88.4	88.8	89.8	90.4	91.2	89.6	91.2	81.8	92.5
250	92.7	92.4	92.2	91.2	90.9	90.4	90.8	90.9	80.9	91.7
315	93.3	92.8	91.0	92.7	91.6	91.0	90.0	90.1	81.5	90.1
400	94.7	94.9	94.9	94.0	92.7	92.2	90.6	90.3	80.4	90.3
500	95.4	96.4	94.7	95.3	93.9	92.7	91.9	90.8	80.6	87.6
630	97.0	96.9	96.4	96.3	94.7	93.6	92.9	91.4	81.6	86.9
800	95.0	96.1	93.8	93.9	92.9	93.2	91.9	90.9	80.8	86.0
1K	96.0	96.5	93.4	93.4	92.8	93.1	92.3	91.7	81.0	86.3
1.25K	95.5	96.0	93.3	93.9	93.6	92.2	91.5	92.2	81.9	89.2
1.6K	96.0	94.3	92.5	92.9	92.3	93.4	91.2	90.5	79.6	85.3
2K	97.3	95.0	93.5	93.3	92.2	92.9	90.9	90.6	79.3	83.8
2.5K	99.6	97.2	96.2	95.2	93.4	93.5	90.4	90.6	78.4	83.0
3.15K	99.5	97.3	96.3	96.0	93.1	93.2	90.2	90.5	78.0	82.4
4K	96.9	95.2	93.6	92.8	91.5	91.7	89.4	89.8	77.7	83.8
5K	95.0	92.9	91.4	90.3	83.6	89.2	87.6	87.7	75.8	82.1
6.3K	92.2	89.9	88.7	87.0	86.3	86.8	84.6	85.6	73.4	80.7
8K	92.6	89.6	88.7	87.9	85.9	85.9	86.5	87.0	78.2	85.9
10K	89.3	86.9	85.8	84.9	82.7	82.9	84.4	84.4	76.5	88.6
63	86.9	87.8	87.2	87.8	89.2	91.1	91.5	93.3	85.1	91.7
125	90.8	90.1	89.1	90.7	90.7	92.0	93.8	95.0	84.7	93.9
250	96.7	96.4	95.7	96.1	95.8	95.7	95.0	95.5	86.2	96.3
500	100.6	100.9	100.1	100.1	98.6	97.6	96.7	95.6	85.7	93.3
1K	100.3	101.0	98.3	98.5	97.6	98.1	96.9	96.1	86.0	92.2
2K	102.6	100.5	99.1	98.7	97.5	98.0	95.6	95.3	83.9	88.9
4K	102.3	100.2	99.0	98.4	96.2	96.4	94.0	94.3	82.0	87.6
8K	96.4	93.8	92.7	91.6	90.0	90.2	90.0	90.5	81.2	90.9
LP-8	108.3	107.4	106.0	105.9	104.7	104.9	103.7	103.8	93.7	101.6
SIL	101.7	100.6	98.8	98.5	97.1	97.5	95.5	95.2	84.0	89.6
ODBA	108.2	106.9	105.4	105.1	103.7	103.9	102.2	101.8	91.1	97.7
PNDB	122.2	120.6	119.4	119.2	117.4	117.6	115.8	115.9	104.7	111.5

Add 5.0 dB to all values of F9

Add 10.0 dB to all values of F10

YF-12 INLET NOISE SUPPRESSION
 09127 MAY 23, 1960 TEST 10933
 YF-12 INLET NOISE SUPPRESSION
 RUN 135
 SPIKE AFT
 BYPASS DOORS OPEN
 5800 RPM

NUM	131	132	133	134	135	136	137	138
FREQ (MC)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	117.0	129.9	118.6	121.1	127.8	134.5	122.3	127.0
63	118.2	130.9	119.6	122.5	129.5	135.3	123.8	128.2
80	119.2	131.7	120.0	123.8	130.7	136.5	125.0	129.2
100	119.5	133.1	121.3	124.8	131.6	137.3	127.4	130.8
125	120.6	134.2	121.8	126.8	133.6	138.3	128.1	132.2
160	120.1	134.6	122.9	129.2	134.4	138.7	129.1	133.9
200	124.4	136.0	125.9	133.0	136.7	139.6	130.9	136.7
250	128.0	137.8	130.5	136.3	138.3	140.5	133.2	139.1
315	130.4	141.6	133.8	135.4	140.0	141.7	135.4	140.2
400	130.4	143.7	138.6	134.7	141.6	143.3	137.9	141.3
500	126.6	141.2	142.4	134.2	143.0	142.9	143.0	141.1
630	124.2	135.9	142.9	132.5	144.3	142.1	145.8	144.1
800	122.5	129.2	138.3	132.2	148.3	141.4	143.1	143.1
1K	123.8	127.1	133.9	134.1	143.3	140.7	139.7	139.7
1.25K	124.6	129.6	134.7	134.8	142.4	140.0	139.1	139.3
1.6K	123.2	126.8	136.6	133.5	143.3	138.9	141.6	141.3
2K	124.3	126.5	145.8	132.3	145.0	137.9	140.9	142.7
2.5K	127.1	128.8	137.6	133.4	146.7	137.8	144.1	144.8
3.15K	127.5	129.9	138.0	132.8	147.4	137.9	150.0	150.6
4K	125.3	128.7	135.8	131.7	145.8	137.9	148.8	150.4
5K	124.9	127.7	134.3	129.9	144.3	137.6	147.4	148.2
6.3K	123.6	127.7	133.5	128.4	142.8	137.4	147.1	148.2
8K	122.7	127.4	132.5	126.6	141.4	136.3	146.5	147.9
10K	121.8	126.7	131.6	124.9	140.1	135.2	145.9	147.1
125	123.0	139.7	124.2	127.3	134.3	140.3	128.6	133.0
160	124.9	138.8	126.8	132.1	138.1	142.9	133.0	137.2
200	133.0	143.9	135.9	139.9	143.3	145.5	138.3	143.7
250	132.6	146.1	146.4	138.7	147.9	147.6	148.1	147.2
1K	128.5	133.5	140.8	138.6	150.3	145.7	145.8	145.8
2K	129.9	132.3	141.5	137.9	150.0	143.0	147.2	147.9
4K	130.7	133.6	141.1	136.4	150.8	142.6	153.7	154.7
8K	127.5	132.0	137.4	131.6	146.3	141.2	151.3	152.6
LP-8	138.9	149.2	149.7	145.9	156.6	153.2	157.2	158.2
SJL	129.7	133.1	141.1	137.6	150.4	143.8	148.9	149.5
DDJA	137.0	144.7	144.3	144.3	156.9	151.1	157.3	158.2
PND8	151.6	158.3	161.8	157.9	170.3	164.6	171.4	172.3
*S18P=0								

Subtract 4.0 dB from all values of K12

YF-12 INLET NOISE SUPPRESSION
 14142 FEB 14, '80 TEST 10021
 YF-12 INLET NOISE SUPPRESSION
 RUN 136
 SPIKE AFT
 BYPASS DOORS OPEN
 6000 RPM

RUN	34	35	36	37	38	39	40	41	42	43
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR 10 F10 135. DEG
50	81.1	81.8	81.6	83.4	83.1	83.9	85.6	86.9		98.4
63	83.8	84.1	84.2	84.1	86.3	88.4	87.9	90.7		98.5
80	83.5	84.4	84.0	84.6	86.9	87.4	87.9	90.4		98.2
100	86.9	85.8	84.6	86.7	87.2	88.2	88.1	91.0		98.7
125	86.9	86.1	85.8	87.2	86.9	87.5	89.9	91.8		100.0
160	87.5	86.5	86.1	87.7	87.1	89.6	91.0	91.0		102.1
200	89.1	89.5	90.2	91.5	92.6	93.0	90.6	93.2		103.0
250	93.1	93.0	93.0	92.1	92.1	91.7	91.6	92.7		102.3
315	93.9	93.4	92.2	93.7	92.4	92.1	90.8	91.2		100.5
400	95.2	95.3	95.9	94.9	93.5	92.9	91.5	91.2		100.3
500	96.2	96.9	95.7	96.2	95.2	93.8	93.1	92.7		98.0
630	97.4	97.1	96.8	96.2	94.9	94.2	92.6	91.8		97.5
800	95.1	96.0	94.3	93.9	93.1	93.9	92.6	91.9		97.1
1K	95.3	95.6	93.6	93.5	92.8	93.5	92.8	92.3		94.6
1.25K	95.2	95.5	93.8	94.3	93.7	94.6	94.4	92.6		101.0
1.6K	95.5	94.1	92.7	93.0	92.5	94.0	92.3	91.6		97.6
2K	95.9	94.0	93.3	93.2	92.3	93.1	91.4	91.5		95.0
2.5K	96.4	94.4	94.0	93.5	92.1	92.7	90.6	91.0		93.8
3.15K	96.2	94.0	93.5	93.5	91.0	91.4	90.1	90.5		92.9
4K	94.5	93.1	91.9	91.2	89.9	90.8	89.8	90.3		94.2
5K	92.8	91.1	89.9	88.9	87.5	88.5	87.8	88.0		93.3
6.3K	90.4	88.2	87.2	85.8	85.3	86.2	84.8	85.9		90.7
8K	91.0	88.2	87.5	86.8	85.0	85.3	84.6	87.0		94.3
10K	88.2	85.7	85.0	84.2	82.3	83.1	85.0	85.2		97.9
63	87.7	88.3	88.2	88.8	90.5	91.7	92.1	94.4		103.1
125	91.9	90.9	90.3	92.0	91.8	93.3	94.6	96.1		105.3
250	97.3	97.1	96.7	97.3	97.2	97.1	98.8	97.2		106.8
500	101.1	101.3	100.9	100.6	99.4	98.5	97.2	96.7		103.5
1K	100.0	100.5	98.7	98.7	98.0	98.8	98.1	97.0		103.5
2K	100.7	98.9	98.1	98.0	97.1	98.1	96.2	96.1		100.5
4K	99.5	97.7	96.8	96.4	94.5	95.2	94.1	94.5		98.3
8K	94.8	92.3	91.5	90.5	89.2	89.8	90.3	90.9		100.0
LP-8	107.3	106.7	105.9	105.8	105.0	105.3	104.5	104.8		112.4
SIL	100.1	99.0	97.9	97.7	96.5	97.3	96.2	95.9		100.8
80BA	106.7	105.7	104.7	104.6	103.5	104.0	102.9	102.6		108.5
PNOB	120.3	118.9	118.1	118.1	116.7	117.2	116.1	116.4		122.1
*810P= 0										

YF-12 INLET NOISE SUPPRESSION
 10:34 MAY 23, '80 TEST 109J3
 YF-12 INLET NOISE SUPPRESSION

RUN 137
 SPIKE AFT
 BYPASS DOORS OPEN
 6000 RPM
 6200

FREQ (Hz)	153		154		155		156		157		158		159		160	
	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG	TR 7 K14 0. DEG	TR 8 K12 0. DEG	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG	TR 7 K14 0. DEG	TR 8 K12 0. DEG
50	117.1	130.3	119.2	121.4	129.1	136.1	123.7	126.7								
63	118.8	131.8	120.8	122.4	130.8	136.8	125.2	128.3								
80	119.8	133.0	121.5	123.4	132.4	137.7	126.3	129.8								
100	120.4	133.9	122.2	125.4	133.6	138.6	127.7	131.1								
125	121.9	134.5	122.9	127.0	135.5	139.5	129.2	133.1								
160	121.1	135.4	123.9	129.5	136.1	139.4	130.3	134.8								
200	125.4	137.1	127.0	133.3	138.0	140.5	131.8	137.4								
250	129.2	139.3	131.6	136.6	139.5	141.5	134.2	139.6								
315	131.6	142.9	135.1	138.1	141.5	142.3	136.2	141.4								
400	131.4	144.6	140.2	135.3	145.4	144.5	138.9	142.4								
500	124.1	142.2	144.6	135.6	145.6	144.6	145.1	142.9								
630	124.0	136.9	143.3	133.2	149.2	143.8	147.7	145.4								
800	122.6	130.4	139.2	132.7	151.4	143.5	145.7	145.8								
1K	123.7	128.3	134.5	134.7	145.8	142.9	142.2	142.3								
1.25K	125.3	132.0	137.3	135.9	145.1	142.7	141.3	143.5								
1.6K	122.9	127.3	136.9	133.9	145.1	141.4	143.2	143.5								
2K	122.6	126.2	135.6	132.1	146.5	140.6	143.2	144.9								
2.5K	122.9	126.6	135.8	132.1	145.9	140.6	145.5	147.1								
3.15K	122.9	126.4	135.0	130.7	145.4	140.0	150.3	150.1								
4K	122.4	126.4	133.8	130.1	143.9	139.7	151.3	152.9								
5K	122.4	126.1	133.0	128.6	143.2	140.1	149.2	150.2								
6.3K	121.9	126.4	132.7	127.4	142.3	140.1	148.6	149.1								
8K	121.7	126.6	132.0	125.8	141.3	139.1	148.0	148.7								
10K	121.1	126.4	131.5	124.3	140.3	138.3	147.1	147.9								
83	123.5	136.6	125.4	127.4	135.8	141.7	130.0	133.2								
125	125.9	139.4	127.9	132.4	140.0	143.9	134.0	138.0								
250	134.2	145.2	137.2	140.3	144.7	146.3	139.2	144.6								
500	133.6	147.1	147.8	139.6	151.9	149.1	149.9	148.5								
1K	128.8	135.2	142.2	139.4	153.2	147.8	148.3	148.9								
2K	127.5	131.5	140.9	137.6	150.7	145.6	148.9	150.2								
4K	127.3	131.1	138.8	134.7	149.0	144.7	155.1	156.0								
8K	126.4	131.2	136.9	130.8	146.1	144.0	152.7	153.4								
LP-8	139.0	150.2	150.3	146.1	158.1	155.0	158.9	159.6								
SIL	127.9	132.6	140.6	137.2	151.0	146.1	150.8	151.7								
ODJA	136.0	145.4	148.9	144.3	157.5	153.2	158.9	159.6								
PNOB	149.5	158.6	160.7	157.2	170.1	166.6	172.9	174.1								

*STNR = 0

Subtract 4.0 dB from all values of K12

YF-12 INLET NOISE SUPPRESSION
 09117 FEB 15, '80 TEST 10021
 YF-12 INLET NOISE SUPPRESSION
 RUN 138
 SPIKE AFT
 BYPASS DOORS OPEN
 6400 RPM

RUN	56	57	58	59	60	61	62	63	64	65
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR 10 F10 135. DEG
50	84.4	85.0	85.1	87.1	86.7	86.9	88.6	90.0	85.9	102.5
63	87.5	87.7	88.2	87.3	89.7	91.1	90.6	94.0	89.1	103.1
80	88.4	89.0	88.5	88.4	90.8	91.3	91.8	94.1	89.9	102.9
100	90.0	88.8	87.8	89.5	90.0	90.7	91.2	94.9	90.0	103.0
125	91.3	90.4	90.1	91.0	91.2	91.6	94.5	96.0	90.0	103.8
160	91.1	89.6	89.1	90.1	89.5	91.9	93.6	93.9	88.3	105.5
200	90.2	90.0	91.2	92.2	93.2	94.4	92.4	95.1	90.5	105.6
250	93.7	93.7	94.1	93.7	94.1	93.8	93.3	95.4	88.9	103.2
315	94.9	94.3	93.0	94.8	93.9	93.5	92.7	92.8	88.4	102.2
400	95.5	95.8	96.4	96.1	94.5	93.7	92.8	92.7	87.7	101.7
500	95.8	96.4	95.6	96.5	95.5	94.6	94.2	93.7	88.5	100.4
630	95.9	95.7	95.6	95.2	93.9	93.7	92.9	93.0	88.7	100.1
800	94.0	94.9	93.6	93.7	93.4	94.2	93.5	92.9	88.8	99.1
1K	94.4	94.8	93.2	93.9	93.2	93.9	94.0	93.7	88.4	98.3
1.25K	94.2	94.7	93.5	94.4	93.6	94.9	95.0	93.7	89.8	99.5
1.6K	94.5	93.6	92.6	93.3	92.6	94.3	93.8	93.8	89.8	100.7
2K	93.2	92.0	92.1	92.4	91.5	92.8	91.8	92.4	86.7	96.6
2.5K	92.5	91.2	91.7	91.9	91.2	92.1	91.2	92.2	85.6	95.0
3.15K	92.2	90.9	91.0	91.5	89.4	90.5	90.2	91.2	84.0	93.7
4K	91.5	90.6	89.9	89.5	88.5	90.3	90.1	91.2	84.1	94.0
5K	90.1	88.9	88.1	87.6	86.4	87.9	88.3	89.0	82.2	93.7
6.3K	87.9	86.3	85.6	84.4	84.3	85.6	85.0	86.6	79.3	91.0
8K	89.1	86.7	86.2	85.5	84.0	84.6	86.1	87.0	81.7	92.6
10K	86.6	84.6	84.1	83.2	81.7	82.6	84.4	85.1	81.6	95.2
63	91.9	92.3	92.3	92.4	94.2	94.9	95.3	97.9	93.4	107.6
125	95.6	94.4	93.9	95.0	95.0	96.1	98.1	99.8	94.3	109.0
250	98.1	97.8	97.7	98.5	98.5	98.7	97.6	99.4	94.2	108.7
500	100.5	100.8	100.7	100.7	99.4	98.7	98.1	97.9	93.1	105.5
1K	99.0	99.6	98.2	98.8	98.2	99.1	99.0	98.2	93.8	103.7
2K	98.2	97.1	96.9	97.3	96.6	97.9	97.2	97.6	92.5	102.9
4K	96.1	95.0	94.6	94.6	93.1	94.5	94.4	95.3	88.3	98.6
8K	92.7	90.7	90.2	89.3	88.2	89.9	90.0	91.1	85.8	98.1
LP-B	106.4	106.1	105.7	106.1	105.5	106.0	105.9	106.8	101.7	114.8
SIL	97.8	97.2	96.6	96.9	95.9	97.8	96.8	97.1	91.6	101.7
ODBA	104.7	104.4	103.8	104.1	103.2	104.0	103.7	103.8	98.6	109.6
PMOB	118.1	117.3	117.0	117.3	116.4	117.7	116.9	117.7	112.0	123.6
*STOP= 0										

YF-12 INLET NOISE SUPPRESSION
 10132 MAY 23 1960 TEST 10933
 YF-12 INLET NOISE SUPPRESSION
 RUN 138
 SPIKE AFT
 BYPASS DROGS OPEN
 6400 RPM

RUN	164		165		166		167		168		169		170		171	
	FREQ (Hz)	TR 1 K1 0: DEG	TR 2 K6 0: DEG	TR 3 K3 0: DEG	TR 4 K8 0: DEG	TR 5 K5 0: DEG	TR 6 K10 0: DEG	TR 7 K14 0: DEG	TR 8 K12 0: DEG							
50	118.1	130.6	119.4	121.5	129.5	136.4	123.7	127.2								
63	119.6	132.1	120.5	123.0	131.5	137.6	125.3	128.5								
80	120.6	132.9	121.5	124.1	133.0	138.3	126.5	130.0								
100	121.3	134.0	122.6	125.7	134.1	138.9	128.3	131.4								
125	122.8	135.1	122.9	127.3	136.0	139.6	129.1	133.6								
160	122.1	135.8	124.1	129.8	136.6	139.8	130.8	135.4								
200	126.3	137.3	126.9	133.3	138.6	141.0	132.2	137.9								
250	130.1	139.8	131.8	136.8	139.9	141.6	134.7	140.0								
315	132.4	143.1	135.5	138.4	142.1	142.5	136.5	141.9								
400	132.3	144.8	140.3	135.4	146.9	144.8	139.2	142.9								
500	128.1	142.1	143.8	135.2	149.5	144.9	145.9	143.6								
630	124.1	136.8	142.2	133.0	151.3	144.6	148.2	145.8								
800	122.9	130.5	137.9	132.6	150.8	144.2	147.4	146.2								
1K	124.2	128.5	134.4	134.9	146.7	143.6	143.0	146.3								
1.25K	125.9	131.4	136.9	136.1	145.7	143.8	142.3	145.4								
1.6K	123.4	127.5	136.8	134.1	145.7	142.4	143.8	144.2								
2K	122.5	126.2	135.4	132.2	146.4	141.7	144.0	145.4								
2.5K	122.6	126.4	135.4	132.1	145.8	141.7	145.7	146.2								
3.15K	123.1	126.1	134.8	130.8	145.0	141.1	148.7	148.1								
4K	122.8	126.0	133.7	130.2	143.4	140.9	150.4	150.9								
5K	122.9	125.8	132.9	128.8	142.7	141.2	148.6	149.4								
6.3K	122.6	126.3	132.6	127.6	141.8	141.1	148.1	148.6								
8K	122.5	126.6	132.0	126.1	141.0	140.1	147.6	148.1								
10K	122.0	126.4	131.6	124.5	140.1	139.3	146.7	147.3								
63	124.4	136.7	125.3	127.8	136.3	142.3	130.1	133.5								
125	126.9	139.8	128.0	132.7	140.5	144.2	134.2	138.5								
250	135.1	145.5	137.4	140.5	145.2	146.5	139.6	145.0								
500	134.2	147.1	147.1	139.4	154.4	149.5	150.6	149.1								
1K	129.3	135.1	141.4	139.5	153.1	148.6	149.6	150.7								
2K	127.6	131.5	140.7	137.7	150.6	146.7	149.3	150.1								
4K	127.7	130.8	138.6	134.8	148.8	145.8	154.1	154.4								
8K	127.2	131.2	136.9	131.0	145.8	145.0	152.3	152.8								
LP-8	139.6	150.3	149.8	146.2	158.8	155.7	158.6	159.1								
SIL	128.2	132.4	140.3	137.3	150.8	147.1	151.0	151.8								
00BA	136.4	145.5	148.4	144.4	157.9	154.1	158.5	159.0								
PNDB	150.0	158.7	160.5	157.3	170.2	167.5	172.4	173.2								
*STEP= 0																

Subtract 4.0 dB from all values of K12

YF-12 INLET NOISE SUPPRESSION
 16107 FER 14, 180 TEST 10021
 YF-12 INLET NOISE SUPPRESSION
 RUN 139
 SPIKE AFT
 BYPASS DBORS OPEN
 6600 RPM

FREQ (HZ)	TR 1 F1 0° DEG	TR 2 F2 10° DEG	TR 3 F3 20° DEG	TR 4 F4 30° DEG	TR 5 F5 40° DEG	TR 6 F6 50° DEG	TR 7 F7 70° DEG	TR 8 F8 90° DEG	TR 9 F9 110° DEG	TR 10 F10 135° DEG
50	87.8	88.4	88.6	90.4	90.1	90.5	92.1	93.8	95.9	108.4
63	90.1	90.6	91.0	90.7	92.0	93.6	93.5	96.0	98.2	109.0
80	95.4	96.5	96.9	95.6	97.4	98.0	98.2	100.8	103.1	109.2
100	93.8	93.3	92.2	94.0	94.7	95.9	95.7	99.1	100.6	109.0
125	96.0	94.7	94.2	96.0	95.0	96.0	99.0	100.2	100.4	109.9
140	96.9	94.4	94.0	95.0	95.0	97.8	98.8	98.4	100.6	110.0
200	96.0	95.0	95.8	96.4	97.4	98.8	97.4	99.7	102.5	110.8
250	95.2	95.7	95.8	95.5	96.3	96.7	97.6	99.0	99.7	109.1
315	95.5	95.4	94.4	96.4	95.8	95.4	95.9	96.6	99.2	107.4
400	95.1	95.8	96.4	96.1	94.9	94.7	94.5	95.8	97.5	106.2
500	94.8	95.7	95.0	95.9	94.9	94.9	95.3	95.6	97.8	104.9
630	94.7	95.1	95.1	94.6	93.9	94.8	94.5	95.3	97.9	103.8
800	93.5	94.8	93.6	94.5	93.9	95.1	94.8	95.2	97.7	102.8
1K	93.8	94.2	93.4	94.2	93.6	94.5	94.5	94.8	96.4	101.1
1.25K	93.4	94.4	93.6	94.4	93.7	95.0	95.1	94.7	97.4	101.0
1.6K	93.7	93.1	92.9	93.5	92.9	94.7	94.0	94.7	97.5	100.8
2K	92.4	91.8	92.2	92.7	91.8	93.2	92.5	93.2	94.9	97.9
2.5K	91.9	91.0	91.8	92.3	91.3	92.5	91.7	92.9	93.9	96.4
3.15K	91.7	90.7	91.1	92.0	89.7	90.4	90.7	92.0	91.7	95.2
4K	90.9	90.5	89.9	89.7	88.8	90.6	90.8	91.7	91.3	94.9
5K	89.8	88.7	88.2	87.9	86.6	88.1	88.5	89.5	89.4	94.0
6.3K	87.7	86.3	85.7	84.8	84.5	85.8	85.1	87.2	86.4	91.5
8K	88.8	86.9	86.5	86.0	84.2	84.4	86.0	87.3	87.9	92.9
10K	86.4	85.0	84.5	83.6	81.7	82.2	83.7	84.8	87.6	93.4
63	97.1	98.0	97.0	97.7	99.1	99.9	100.2	102.7	104.9	113.7
125	100.5	98.9	98.3	99.8	99.7	101.4	102.8	104.1	108.3	114.4
250	100.4	100.1	100.2	100.9	101.3	101.9	101.8	103.4	105.5	114.1
500	99.6	100.3	100.3	100.4	99.3	99.6	99.5	100.3	102.5	109.9
1K	98.4	99.3	98.3	99.2	98.5	99.6	99.7	99.7	101.9	106.5
2K	97.5	96.8	97.1	97.6	96.8	98.4	97.6	98.4	100.5	103.5
4K	95.6	94.9	94.7	95.0	93.3	94.7	94.9	96.0	95.7	99.5
8K	92.5	90.9	90.4	89.7	88.4	89.9	89.8	91.4	92.1	97.5
LF-8	107.4	107.2	106.9	107.5	107.3	108.3	108.6	109.9	111.8	119.8
SIL	97.2	97.0	96.7	97.2	96.2	97.6	97.4	98.0	99.4	103.2
80BA	104.2	104.2	103.9	104.4	103.6	104.7	104.6	105.2	107.0	112.4
PNDS	118.2	117.7	117.6	118.2	117.2	118.3	118.2	119.3	120.6	124.2
OSTOP = 0										

YF-12 INLET NOISE SUPPRESSION
 10144 MAY 23, 1960 TEST 10933
 YF-12 INLET NOISE SUPPRESSION
 RUN 139
 SPIKE AFT
 BYPASS DRUMS OPEN
 6600 RPM

FREQ (HZ)	175		176		177		178		179		180		181		182	
	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	117.5	131.3	119.2	121.9	130.1	137.1	123.7	127.3								
63	118.9	132.6	121.0	123.3	131.7	138.3	125.2	129.1								
80	120.2	133.7	121.6	124.1	133.2	138.8	126.7	130.6								
100	120.9	134.9	122.6	125.8	134.7	139.5	128.1	132.0								
125	122.5	135.8	122.8	127.4	136.6	140.2	129.6	133.6								
160	121.6	136.5	124.1	130.0	137.3	140.4	130.8	135.6								
200	125.4	138.3	126.9	133.6	139.1	141.4	132.3	137.9								
250	129.6	140.2	131.9	137.1	140.7	142.1	134.7	140.1								
315	131.8	143.7	135.6	136.5	143.1	142.8	136.8	142.2								
400	131.1	145.3	139.2	135.0	148.2	144.7	139.5	143.6								
500	126.4	142.5	142.1	134.3	149.6	145.4	146.4	144.3								
630	122.3	138.9	141.1	132.9	149.7	145.3	148.6	146.5								
800	121.7	130.9	137.0	132.8	149.7	144.8	147.2	147.0								
1K	122.9	129.0	134.1	134.9	146.9	144.2	143.7	143.7								
1.25K	124.5	131.3	136.5	136.0	145.9	144.5	142.7	143.9								
1.6K	122.3	127.6	136.8	134.2	145.8	143.3	144.2	144.2								
2K	121.3	126.4	135.3	132.3	145.7	142.8	144.8	145.8								
2.5K	121.4	126.4	135.5	132.2	145.0	142.7	145.7	146.1								
3.15K	122.0	126.1	134.9	130.9	144.6	142.2	147.6	147.7								
4K	121.8	126.0	133.7	130.3	143.0	142.0	148.9	149.3								
5K	122.0	129.9	132.9	128.9	142.3	142.3	148.0	148.8								
6.3K	121.8	126.2	132.7	127.8	141.5	142.0	147.5	148.1								
8K	121.8	126.5	132.2	126.2	140.6	141.0	147.1	147.6								
10K	121.3	126.4	131.7	124.6	139.8	140.2	146.3	147.0								
63	123.8	137.4	125.9	128.0	136.8	142.9	130.1	133.9								
125	126.5	140.5	128.0	132.8	141.1	144.8	134.4	138.8								
250	134.4	146.1	137.5	140.7	146.0	146.9	139.7	145.2								
500	132.8	147.5	145.7	138.9	154.0	149.9	151.0	149.7								
1K	128.0	135.3	140.8	139.5	152.6	149.1	149.8	149.9								
2K	126.4	131.6	140.7	137.8	150.3	147.7	149.7	150.3								
4K	126.7	130.8	138.7	134.9	148.2	147.0	153.0	153.3								
8K	126.4	131.2	137.0	131.2	145.5	145.9	151.8	152.3								
LP-8	138.6	150.8	149.0	146.2	158.4	156.3	158.3	158.6								
SIL	127.0	132.6	140.1	137.4	150.3	148.0	150.8	151.2								
00BA	135.3	145.8	147.8	144.4	157.4	154.9	158.1	158.4								
PADB	148.9	159.1	160.3	157.3	169.9	168.4	171.7	172.3								
*STOP 0																

Subtract 4.0 dB from all values of K12

YF-12 INLET NOISE SUPPRESSION
 16134 DEC 05, 1979 TEST 9224
 YF-12 INLET NOISE SUPPRESSION
 RUN 148
 SPIKE FORWARD
 BYPASS DOORS OPEN
 5000 RPM

NUM	103	104	105	106	107	108	109	110	111	114
FREQ (Hz)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR10 F10 135. DEG
50	81.1	83.3	84.6	82.4	82.6	82.2	86.2	88.4	90.7	93.2
63	81.8	81.5	83.0	80.7	82.7	85.7	86.2	88.7	90.8	92.0
80	83.6	82.9	84.9	83.0	84.9	86.4	86.6	87.9	89.0	92.8
100	92.1	88.5	89.6	88.6	87.9	87.6	88.6	89.8	89.9	93.9
125	89.8	88.0	90.5	88.2	88.8	88.4	89.9	90.4	89.1	94.9
160	89.3	89.3	90.5	89.5	90.2	90.4	89.8	89.5	88.3	98.1
200	87.2	88.0	90.1	89.1	88.1	89.5	87.7	89.5	88.8	98.7
250	89.6	88.9	92.7	82.5	90.5	88.3	89.0	88.8	90.2	99.3
315	89.2	88.3	90.0	88.9	87.7	88.3	87.5	88.0	89.8	97.4
400	91.2	90.9	94.3	90.7	89.6	89.7	87.7	88.0	89.6	97.8
500	93.6	94.2	94.7	92.5	91.4	90.8	90.4	90.6	92.6	98.0
630	95.0	94.8	96.7	93.8	93.1	93.1	93.3	92.8	93.8	98.2
800	94.6	95.2	95.5	93.3	92.6	93.4	91.9	91.5	92.6	96.6
1K	95.3	95.0	95.2	92.7	93.0	93.1	91.7	91.2	92.5	95.5
1.25K	94.8	94.0	93.7	92.5	92.9	92.9	91.2	90.0	91.4	94.0
1.6K	95.6	94.9	95.6	93.8	93.9	93.7	91.4	90.2	91.1	93.2
2K	98.7	98.1	98.2	95.0	94.8	94.3	91.7	90.2	90.6	93.5
2.5K	106.2	106.1	105.9	102.7	101.6	100.1	94.3	91.3	90.7	94.0
3.15K	102.9	104.1	104.0	102.1	101.3	99.7	95.3	91.5	89.9	92.5
4K	96.6	98.7	97.5	94.2	94.2	94.2	90.3	88.5	86.5	90.6
5K	96.7	98.1	96.7	94.5	93.5	92.2	88.8	86.4	86.2	90.2
6.3K	94.4	96.2	93.6	92.3	92.5	90.6	88.0	86.6	86.6	90.4
8K	93.7	95.5	94.5	92.7	92.0	91.3	90.3	90.1	90.2	98.6
10K	91.2	92.4	91.0	88.7	87.6	86.8	85.6	83.0	83.3	91.7
63	87.1	87.4	89.0	86.9	88.3	89.9	91.1	93.1	94.9	97.5
125	95.3	93.4	95.0	93.6	93.8	93.7	94.2	94.6	93.9	100.8
250	93.5	93.2	95.9	94.0	93.7	93.5	92.2	93.6	94.4	103.3
500	98.3	98.4	100.1	97.3	96.4	96.2	95.8	95.6	97.1	102.7
1K	99.7	99.5	99.6	97.6	97.6	97.9	96.4	95.7	97.0	100.2
2K	107.2	107.0	106.2	103.2	103.0	101.8	97.5	95.4	95.4	98.3
4K	104.6	106.0	105.5	103.5	102.7	101.4	97.2	94.1	92.7	96.0
8K	98.1	99.8	98.0	96.3	96.0	94.7	93.2	92.2	92.3	99.9
LP-8	110.4	110.8	110.7	108.3	107.6	106.8	104.3	103.5	104.1	109.5
SIL	103.8	104.2	104.0	101.7	101.1	100.4	97.0	95.1	95.1	98.2
80BA	111.0	111.4	111.2	108.7	108.0	106.9	103.5	101.8	102.2	106.4
PNDB	125.3	125.5	125.4	122.9	122.3	121.3	118.1	116.1	115.7	120.3

8210:0

Subtract 2.0 dB from all values of F3

YE-12 INLET NOISE SUPPRESSION
 13147 NOV 08, 1979 TEST 9156
 YF-12 INLET NOISE SUPPRESSION
 RUN 148
 SPIKE FORWARD
 BYPASS DOORS OPEN
 5000 RPM

RUN	86	87	88	89	90	91
FREQ (Hz)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG
50	102.7	138.9	122.8	129.9	124.3	142.6
63	104.7	139.8	124.5	130.8	125.4	143.4
80	107.0	140.9	126.3	132.2	126.7	144.1
100	115.9	141.9	128.5	133.9	128.7	144.6
125	118.6	142.9	130.4	135.5	130.1	145.5
160	122.0	143.9	132.7	135.8	131.1	146.1
200	123.7	145.0	133.5	138.0	132.8	147.4
250	127.2	146.7	135.3	139.2	133.3	147.9
315	127.4	149.3	136.7	137.2	132.5	147.3
400	126.8	149.7	138.9	134.3	132.0	147.1
500	123.2	146.1	139.9	131.5	131.4	146.3
630	121.0	140.9	138.6	130.2	131.6	145.5
800	121.5	135.6	133.8	130.7	135.7	144.9
1K	122.4	133.3	129.2	132.0	132.6	143.7
1.25K	122.7	133.8	128.7	131.0	128.9	142.8
1.6K	123.4	131.1	130.3	131.1	131.3	141.4
2K	126.2	130.6	132.0	132.0	135.1	140.9
2.5K	135.2	136.3	140.0	138.5	140.5	143.8
3.15K	134.8	137.6	140.1	139.5	140.8	144.8
4K	128.4	133.1	134.4	133.5	135.0	140.1
5K	128.7	132.7	133.9	133.7	134.6	139.5
6.3K	128.8	134.0	134.5	134.5	134.8	140.5
8K	127.3	133.3	133.0	133.3	133.2	139.1
10K	126.3	132.8	132.2	132.9	132.1	138.2
63	109.9	144.7	129.5	135.8	130.4	148.2
125	124.3	147.7	135.6	139.9	134.8	150.2
250	131.2	152.1	140.1	143.0	137.7	152.3
500	129.1	151.6	143.9	137.1	136.4	151.1
1K	127.0	139.2	136.0	136.0	138.0	148.6
2K	135.9	138.2	141.0	140.0	142.0	147.0
4K	136.5	139.9	141.9	141.3	142.5	146.9
8K	132.4	138.2	138.1	138.4	138.3	144.1
LP-8	141.1	156.3	148.9	148.6	147.9	158.2
SIL	133.1	139.1	139.6	139.1	140.9	147.5
80BA	141.3	150.9	147.7	146.6	147.7	154.9
PNDB	155.6	164.7	162.4	162.1	162.4	169.7

YF-12 INLET NOISE SUPPRESSION
 13:47 NOV 08, 1979 TEST 915A
 YF-12 INLET NOISE SUPPRESSION
 RUN 148
 SPIKE FORWARD
 BYPASS DOORS OPEN
 5000 RPM

RUN	92	93
FREQ (HZ)	TR 7 K14 0. DEG	TR 8 K12 0. DEG
50	119.5	124.4
63	121.1	124.5
80	122.3	124.4
100	123.3	124.8
125	124.5	125.5
160	125.6	125.5
200	127.2	127.2
250	129.2	128.7
315	131.4	128.5
400	133.5	128.4
500	137.5	128.0
630	139.7	129.0
800	137.0	130.1
1K	131.9	126.6
1.25K	132.0	125.4
1.6K	133.6	127.8
2K	134.8	130.6
2.5K	142.5	138.6
3.15K	144.1	140.3
4K	140.0	134.8
5K	139.5	134.5
6.3K	141.0	136.8
8K	139.9	136.1
10K	139.5	136.3
63	125.9	129.2
125	129.3	130.0
250	134.3	132.9
500	142.4	133.3
1K	139.1	132.6
2K	143.7	139.6
4K	146.5	142.2
8K	145.0	141.1
LP-8	151.1	146.7
SIL	143.1	138.1
0DBA	151.1	146.7
PNDB	165.4	161.3

YF-12 INLET NOISE SUPPRESSION
 16155 DEC 05, 1979 TEST 9226
 YF-12 INLET NOISE SUPPRESSION
 RUN 152
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6000 RPM

RUN	115	116	117	118	119	120	121	122	123	124
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR 10 F10 135. DEG
50	82.6	83.6	85.2	83.8	84.2	84.7	87.1	89.0	91.0	98.3
63	87.5	87.0	88.7	85.6	87.6	90.1	89.6	92.7	93.8	98.6
80	87.9	87.4	88.9	87.1	88.8	89.8	90.3	92.1	93.7	98.5
100	91.8	89.3	90.6	89.4	89.7	90.8	91.1	93.6	94.7	99.5
125	94.3	92.7	96.0	93.1	94.0	94.3	94.6	95.3	94.8	101.2
160	93.0	92.9	93.3	92.5	93.0	93.5	93.0	93.0	93.3	103.6
200	91.3	92.1	94.1	93.1	92.6	94.0	92.5	93.6	94.3	102.1
250	93.1	92.4	95.7	92.3	93.1	91.9	92.8	92.5	94.8	103.0
315	92.5	91.7	93.6	92.6	91.8	92.3	90.9	92.1	93.4	100.8
400	93.7	93.6	97.3	93.8	93.0	92.1	90.4	91.0	92.7	100.0
500	95.8	96.9	98.0	95.6	93.9	92.8	91.0	90.4	91.9	97.8
630	98.4	98.1	99.8	97.0	95.8	93.6	91.9	91.1	93.5	96.9
800	98.3	98.7	98.6	96.0	94.4	93.2	91.2	91.1	92.9	96.4
1K	97.8	97.7	97.5	94.2	93.3	92.1	90.7	91.1	93.5	96.2
1.25K	97.2	97.0	96.8	94.3	94.4	93.3	92.0	92.4	98.0	100.1
1.6K	97.6	97.1	97.9	95.5	95.2	94.2	91.6	91.7	94.9	98.4
2K	98.6	98.5	98.9	95.8	95.8	94.5	91.6	90.8	92.0	94.3
2.5K	102.2	102.3	102.3	98.4	97.9	96.6	92.2	90.8	90.8	93.6
3.15K	104.7	106.0	105.4	102.7	101.4	99.8	95.6	92.6	90.9	93.2
4K	100.8	103.4	102.3	99.5	99.5	98.5	95.0	93.1	90.3	93.3
5K	96.4	98.1	97.3	94.7	94.1	93.1	91.3	89.7	89.9	93.1
6.3K	93.8	95.9	93.3	91.5	91.6	89.6	87.9	87.5	87.6	90.6
8K	93.2	95.4	94.5	92.5	91.7	90.2	82.9	80.1	81.2	94.6
10K	89.9	91.5	90.5	88.7	87.9	87.2	88.1	87.9	90.4	97.8
63	91.3	91.1	92.7	90.5	92.1	93.4	94.0	96.3	97.8	103.2
125	97.9	96.7	98.6	96.7	97.3	97.8	97.9	98.8	99.0	106.5
250	97.1	96.9	99.4	97.4	97.3	97.6	96.2	97.6	99.0	106.8
500	101.2	101.3	103.3	100.4	99.0	97.6	95.9	95.6	97.5	103.2
1K	102.5	102.6	102.5	99.7	98.9	97.7	96.1	96.4	100.2	102.7
2K	104.7	104.7	104.2	101.6	101.2	100.0	96.4	95.9	97.6	100.7
4K	106.6	108.3	107.6	104.8	104.1	102.7	99.1	96.8	95.4	98.0
8K	97.4	99.4	97.9	95.9	95.5	94.2	93.5	93.4	94.8	100.0
LP-8	110.9	111.7	111.8	109.1	108.5	107.6	105.6	105.6	107.0	112.6
SIL	104.6	105.2	105.0	102.0	101.9	100.1	97.3	96.4	97.7	100.5
QUBA	111.1	112.0	111.7	108.9	108.2	106.9	104.0	103.0	104.6	108.3
PNDB	125.7	126.7	126.5	123.9	123.1	121.8	119.0	117.9	117.9	121.9

*818P. Q

Subtract 2.0 dB from all values of F3

YF-12 INLET NOISE SUPPRESSION
 13:47 NOV 08, 1979 TEST 9154
 YF-12 INLET NOISE SUPPRESSION
 RUN 152
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6000 RPM

RUN	98	99	100	101	102	103
FREQ (HZ)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG
50	107.4	140.8	124.9	132.0	126.1	146.9
63	108.2	141.9	126.3	132.7	127.2	147.9
80	111.1	143.1	128.1	134.4	129.0	148.2
100	114.8	144.4	130.5	136.1	131.1	148.5
125	125.5	145.7	132.1	138.4	132.5	149.5
160	125.7	146.9	134.3	139.8	134.2	149.2
200	128.8	148.8	137.2	141.5	136.0	149.7
250	131.0	150.8	138.3	142.3	136.7	150.4
315	131.6	153.6	140.3	140.9	136.4	151.5
400	130.8	154.2	142.5	138.3	136.4	151.5
500	127.7	150.6	143.8	135.9	135.8	151.2
630	126.2	145.6	143.2	134.8	136.5	150.8
800	126.0	140.7	139.1	135.5	140.6	150.2
1K	126.1	138.4	134.4	136.7	137.0	149.2
1.25K	126.4	138.6	134.2	136.0	134.2	148.9
1.6K	127.0	135.7	135.2	135.9	136.1	147.8
2K	128.5	135.0	135.8	135.5	138.8	147.0
2.5K	132.2	135.7	138.4	137.0	139.7	146.4
3.15K	136.2	138.9	141.9	140.6	142.5	147.4
4K	134.7	139.4	141.2	140.5	141.7	148.3
5K	130.6	137.2	137.8	138.0	138.5	147.2
6.3K	128.9	136.5	136.2	136.4	136.7	145.8
8K	127.5	136.4	135.3	135.8	135.6	144.6
10K	125.8	135.3	133.8	135.1	134.1	143.7
63	114.0	146.8	131.4	137.9	132.4	152.5
125	128.8	150.6	137.3	143.1	137.6	153.9
250	135.4	156.3	143.6	146.4	141.2	155.4
500	133.4	156.2	148.0	141.4	141.0	155.9
1K	131.0	144.1	141.3	140.8	142.8	154.3
2K	134.6	140.3	141.5	141.0	143.2	151.9
4K	139.2	143.3	145.4	144.6	146.0	152.5
8K	132.3	140.9	140.0	140.6	140.4	149.6
LP-8	143.1	160.3	152.2	151.7	150.9	162.7
SIL	134.9	142.6	142.7	142.1	144.0	152.9
ODBA	142.7	155.0	150.7	149.4	150.5	160.0
PNDB	157.6	168.6	165.1	164.5	165.1	174.2

YF-12 INLET NOISE SUPPRESSION
 13:47 NOV 08, '79 TEST 915A
 YF-12 INLET NOISE SUPPRESSION
 RUN 152

SPIKE FORWARD
 BYPASS DOORS OPEN
 6000 RPM

RUN	104	105
FREQ (HZ)	TR 7 K14 0. DEG	TR 8 K12 0. DEG
50	121.7	118.3
63	122.8	119.9
80	123.8	120.9
100	125.4	122.7
125	126.5	124.6
160	127.5	126.2
200	129.4	128.6
250	132.2	131.1
315	134.6	132.7
400	136.4	132.5
500	142.0	132.3
630	144.5	136.7
800	141.7	136.0
1K	138.1	131.7
1.25K	137.6	132.5
1.6K	139.9	133.9
2K	139.6	135.0
2.5K	142.9	138.4
3.15K	150.8	145.9
4K	150.3	145.3
5K	147.6	141.8
6.3K	146.6	141.0
8K	145.9	140.9
10K	144.8	139.9
63	127.6	124.6
125	131.3	129.5
250	137.3	135.9
500	146.8	139.1
1K	144.3	138.6
2K	145.8	141.0
4K	154.5	149.4
8K	150.6	145.4
LP-8	157.2	151.9
SIL	148.2	143.0
80BA	157.4	152.2
PNDB	171.5	166.4

STOP

YF-12 INLET NOISE SUPPRESSION
 17123 DEC 05, 1979 TEST 9224
 YF-12 INLET NOISE SUPPRESSION

RUN 153
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6200 RPM

RUN	126	127	128	129	130	131	132	133	134	135
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR 10 F10 135. DEG
50	84.2	84.9	86.6	85.1	85.8	85.8	87.8	89.7	91.9	99.8
63	88.2	87.7	89.5	88.4	88.8	90.8	90.8	93.9	94.8	100.5
80	89.1	88.7	90.0	88.1	90.0	90.9	91.7	93.6	94.9	100.1
100	91.9	89.5	90.7	90.0	90.5	90.8	91.8	94.3	95.7	100.7
125	95.2	93.6	96.9	93.9	95.0	94.8	95.8	96.1	95.7	102.3
160	93.7	93.6	93.7	92.9	93.3	94.0	93.7	93.8	94.4	105.0
200	92.6	93.7	95.0	94.4	93.6	95.3	93.5	94.5	95.5	102.8
250	93.6	92.9	96.0	92.8	93.7	92.4	93.7	93.4	96.0	103.3
315	93.5	92.7	94.4	93.4	92.6	93.1	91.7	93.2	94.7	101.2
400	94.1	94.2	97.7	94.5	93.7	92.9	91.4	92.0	93.9	100.9
500	96.5	97.4	98.4	96.1	94.3	93.4	92.2	91.7	93.2	99.0
630	99.0	98.4	100.1	96.9	95.8	94.2	92.1	91.7	94.2	98.2
800	99.1	99.4	98.9	98.3	95.2	94.5	91.4	92.0	94.2	97.6
1K	98.3	97.8	97.8	95.1	94.2	92.2	91.3	92.0	95.0	97.3
1.25K	97.5	96.9	96.8	95.0	94.7	93.9	92.3	92.8	97.8	98.8
1.6K	98.0	97.1	98.2	96.2	96.4	95.2	93.3	93.8	98.4	101.6
2K	98.7	98.1	98.8	96.0	96.2	95.1	92.1	91.4	93.6	96.6
2.5K	100.3	100.3	100.7	97.3	97.0	96.1	92.2	91.1	91.6	94.9
3.15K	101.9	102.7	102.4	100.2	98.8	97.4	93.8	91.7	91.5	93.6
4K	99.3	101.1	100.3	97.6	97.6	96.8	93.4	92.2	91.8	93.4
5K	95.5	96.6	96.1	93.7	93.1	92.2	90.7	89.7	90.6	93.9
6.3K	92.3	93.7	91.6	90.1	90.3	88.4	87.1	87.3	88.0	91.0
8K	91.7	93.3	92.9	91.0	90.9	89.6	89.0	89.3	90.7	93.2
10K	88.4	89.5	89.2	87.6	86.8	86.3	87.5	87.5	90.6	96.9
63	92.4	92.1	93.7	91.5	93.3	94.8	95.0	97.5	98.8	104.9
125	98.6	97.4	99.2	97.3	98.1	98.3	98.8	99.7	100.1	107.8
250	98.0	97.9	100.0	98.4	98.1	98.6	97.8	98.5	100.2	107.3
500	101.7	101.8	103.6	100.7	99.5	98.3	96.7	96.6	98.5	104.3
1K	103.1	103.0	102.7	100.3	99.5	98.6	96.5	97.0	100.7	102.7
2K	103.9	103.5	104.1	101.3	101.3	100.2	97.2	97.1	100.3	103.5
4K	104.4	105.6	105.1	102.7	101.9	100.8	97.6	96.1	96.0	98.4
8K	95.9	97.3	96.2	94.5	94.2	93.1	92.7	92.9	94.7	99.4
LP-8	110.3	110.5	110.9	108.5	108.1	107.4	105.9	106.3	108.1	113.6
SIL	103.8	104.0	104.0	101.5	100.9	99.9	97.1	96.2	99.0	101.5
80BA	110.0	110.3	110.4	107.9	107.3	106.3	103.7	103.4	105.8	109.2
PNOB	124.3	124.8	124.8	122.5	121.8	120.8	118.4	117.9	119.4	123.4

Subtract 2.0 dB from all values of F3

YE-12 INLET NOISE SUPPRESSION
 16109 NOV 08, 1979 TEST 915A
 YF-12 INLET NOISE SUPPRESSION
 RUN 153
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6200 RPM

RUN	109	110	111	112	113	114
FREQ (Hz)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG
50	107.3	142.0	124.7	132.8	126.5	147.9
63	108.5	142.7	126.5	133.8	127.5	148.1
80	111.5	143.7	128.7	135.3	129.1	148.5
100	114.4	144.4	130.5	137.0	131.3	149.0
125	126.7	145.9	132.5	139.0	133.3	149.9
160	125.6	147.3	134.4	140.2	134.6	149.6
200	129.6	149.8	137.9	142.3	136.3	150.5
250	131.4	151.6	138.9	142.9	137.1	150.7
315	132.1	154.4	141.0	141.6	137.2	151.8
400	131.4	155.1	143.4	138.8	137.1	152.3
500	128.5	151.5	144.5	136.5	136.6	152.0
630	126.6	146.3	144.0	135.4	137.1	151.7
800	127.0	141.5	140.1	136.2	141.4	151.2
1K	126.8	139.2	135.4	137.3	137.9	150.1
1.25K	127.4	139.4	135.0	136.6	135.2	149.9
1.6K	127.5	136.5	135.9	136.6	136.8	148.7
2K	128.7	135.7	136.3	136.1	139.2	148.0
2.5K	130.8	135.7	137.7	136.6	139.3	147.4
3.15K	133.4	137.4	139.6	138.4	140.4	147.1
4K	132.6	137.9	139.3	138.5	139.9	147.4
5K	129.5	136.6	136.9	137.1	137.5	147.1
6.3K	127.3	136.0	135.3	135.4	135.8	146.2
8K	125.8	135.9	134.3	134.7	134.6	144.8
10K	124.1	135.2	133.3	134.1	133.2	143.9
63	114.3	147.6	131.7	138.8	132.6	153.0
125	129.3	150.8	137.5	143.7	138.0	154.3
250	135.9	157.1	144.3	147.1	141.7	155.8
500	134.1	157.1	148.8	141.9	141.7	156.8
1K	131.9	144.9	142.3	141.5	143.7	155.2
2K	134.0	140.8	141.5	141.2	143.4	152.8
4K	136.9	142.1	143.5	142.9	144.2	152.0
8K	130.7	140.5	139.2	139.5	139.4	149.8
LP-8	142.4	161.0	152.3	151.9	150.7	163.2
SIL	134.3	142.6	142.4	141.9	143.7	153.3
00BA	141.4	155.7	150.4	148.9	150.0	160.6
PNDB	156.1	169.1	164.1	163.7	164.1	174.2

YF-12 INLET NOISE SUPPRESSION
 16:09 NOV 08, 1979 TEST 915A
 YF-12 INLET NOISE SUPPRESSION
 RUN 153
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6200 RPM

RUN		115	116
FREQ (HZ)	TR 7 K14 Q. DEG	TR 8 K12 Q. DEG	
50	121.3	118.3	
63	123.1	119.9	
80	124.2	121.1	
100	126.3	123.4	
125	127.1	125.1	
160	128.1	126.5	
200	129.9	129.0	
250	132.7	131.4	
315	135.2	133.3	
400	136.8	133.1	
500	142.6	133.2	
630	145.1	136.3	
800	142.4	137.8	
1K	139.3	134.7	
1.25K	138.6	137.0	
1.6K	141.4	134.0	
2K	140.7	136.3	
2.5K	143.5	138.9	
3.15K	148.6	141.4	
4K	149.9	144.0	
5K	147.3	141.5	
6.3K	146.5	140.1	
8K	145.9	140.0	
10K	144.6	139.2	
63	127.8	124.7	
125	132.0	129.9	
250	137.9	136.3	
500	147.4	139.3	
1K	145.2	141.4	
2K	146.8	141.6	
4K	153.5	147.3	
8K	150.5	144.6	
LP-8	156.8	150.9	
SIL	148.5	143.4	
OCBA	157.0	151.0	
PNDB	171.1	165.4	

YF-12 INLET NOISE SUPPRESSION
 17:40 DEC 05, 79 TEST 9224
 YF-12 INLET NOISE SUPPRESSION
 RUN 154
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6400 RPM

RUN	137	138	139	140	141	142	143	144	145	146
FREQ (Hz)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR10 F10 135. DEG
50	85.4	86.6	88.3	87.0	87.8	87.9	90.0	92.2	94.7	102.9
63	89.7	89.2	91.2	88.0	89.8	91.7	92.0	95.0	96.1	103.3
80	92.4	92.3	93.5	91.0	92.9	93.7	94.9	96.4	98.3	103.3
100	92.9	90.6	92.3	91.5	91.8	92.3	93.4	96.7	98.1	104.3
125	96.4	94.8	97.7	95.1	96.0	95.9	97.0	98.2	98.0	105.8
160	95.6	94.8	95.1	94.0	94.4	95.4	95.9	95.8	97.3	107.1
200	94.2	95.0	96.5	95.7	95.0	96.5	94.8	96.0	97.8	105.8
250	94.8	94.1	97.1	93.5	94.9	93.8	95.2	95.8	97.8	104.7
315	94.1	93.8	95.2	94.3	93.6	94.4	93.1	94.6	96.3	103.0
400	95.0	94.9	98.4	95.1	94.2	93.4	92.8	93.4	95.7	102.3
500	96.9	98.1	98.9	96.5	94.8	94.1	93.2	93.3	95.0	101.1
630	99.1	98.8	100.4	97.4	96.1	94.8	93.0	93.0	96.3	100.3
800	99.0	100.0	99.1	97.1	95.9	95.5	92.3	93.3	95.7	99.2
1K	98.8	98.4	98.2	95.8	94.8	93.7	92.9	93.6	96.4	98.3
1.25K	97.5	97.1	97.0	95.3	95.0	94.5	92.8	93.6	98.4	98.7
1.6K	98.0	97.2	98.1	96.5	96.4	95.9	94.0	95.3	101.1	101.5
2K	98.3	97.7	98.5	95.7	96.0	95.2	92.5	92.6	95.9	97.9
2.5K	98.7	98.8	99.3	96.2	95.9	95.6	92.4	92.3	93.5	95.2
3.15K	98.7	99.8	99.5	97.4	96.2	95.1	92.3	91.8	92.0	93.9
4K	96.7	98.6	97.8	95.1	95.2	94.6	91.7	92.1	92.0	93.3
5K	93.7	95.0	94.3	92.0	91.5	90.8	89.7	89.8	91.6	93.5
6.3K	90.3	91.8	89.8	88.3	88.7	87.1	86.2	87.6	88.6	91.1
8K	89.4	91.3	91.0	89.0	88.6	88.1	87.6	87.3	90.4	93.1
10K	86.4	87.7	87.7	85.9	85.3	85.1	86.5	87.6	90.7	95.4
63	94.8	94.8	96.3	93.8	95.5	96.5	97.5	99.7	101.4	107.9
125	100.0	98.5	100.3	98.5	99.2	99.6	100.8	101.8	102.6	110.6
250	99.1	99.1	101.1	99.4	99.3	99.8	99.2	100.3	102.1	109.4
500	102.1	102.3	104.1	101.2	99.9	98.9	97.7	98.0	100.5	106.1
1K	103.3	103.5	103.0	100.9	100.0	99.4	97.5	98.3	101.8	103.5
2K	102.1	102.7	103.4	100.9	100.2	100.3	97.8	98.4	102.8	103.7
4K	101.6	103.0	102.5	100.1	99.5	98.7	96.2	96.1	96.7	98.4
8K	93.8	95.4	94.5	92.7	92.6	91.7	91.6	93.0	94.8	98.3
LP-8	109.8	110.0	110.6	108.3	108.0	107.7	106.8	107.9	110.1	115.6
SIL	102.7	103.1	102.9	100.4	100.1	99.5	97.1	97.6	100.8	101.9
80BA	108.9	109.3	109.4	107.1	106.5	105.9	103.8	104.4	107.8	110.0
PNOB	122.6	123.2	123.4	121.2	120.6	120.0	118.2	118.6	121.3	124.2
8780.0										

Subtract 2.0 dB from all values of F3

YF-12 INLET NOISE SUPPRESSION
 16109 NOV 08, 1979 TEST 915A
 YF-12 INLET NOISE SUPPRESSION
 RUN 154

SPIKE FORWARD
 BYPASS DOORS OPEN
 6400 RPM

RUN	122	123	124	125	126	127
FREQ (Hz)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG
50	110.2	141.8	125.7	132.9	127.0	148.5
63	111.0	143.2	126.7	134.1	128.3	148.3
80	113.2	144.3	128.8	135.4	129.7	149.3
100	115.7	145.2	131.1	137.4	131.8	149.4
125	127.1	146.6	132.9	139.0	133.3	150.3
160	126.2	147.6	134.8	140.5	134.9	149.9
200	130.7	150.3	138.5	142.7	136.7	150.8
250	132.1	152.3	139.5	143.3	137.3	151.2
315	132.8	154.9	141.7	141.9	137.4	152.9
400	132.1	155.4	143.7	139.6	137.4	153.2
500	129.1	152.2	145.0	137.2	137.0	152.7
630	127.0	147.2	144.4	135.9	137.6	152.4
800	126.9	142.4	140.6	136.7	142.0	151.8
1K	127.5	140.2	136.1	138.0	138.4	150.9
1.25K	128.0	140.3	135.8	137.3	135.8	150.7
1.6K	127.6	137.4	136.3	136.9	137.2	149.4
2K	128.5	136.7	136.6	136.2	139.5	148.6
2.5K	129.8	136.7	137.2	136.4	138.9	148.0
3.15K	130.9	137.3	137.7	136.7	138.7	147.2
4K	130.2	137.6	137.3	136.6	138.0	146.8
5K	127.9	137.5	135.7	135.8	136.4	146.6
6.3K	126.0	137.5	134.4	134.6	134.9	146.1
8K	124.3	137.1	133.4	133.7	133.7	144.9
10K	122.8	135.8	132.7	133.2	132.4	144.0
63	116.4	148.0	132.0	139.0	133.3	153.5
125	129.9	151.3	138.0	143.9	138.3	154.6
250	136.7	157.7	144.9	147.5	141.9	156.2
500	134.7	157.5	149.2	142.6	142.1	157.5
1K	132.3	145.9	142.9	142.1	144.2	155.9
2K	133.5	141.7	141.5	141.3	143.4	153.5
4K	134.6	142.2	141.7	141.2	142.6	151.7
8K	129.3	141.6	138.3	138.6	138.6	149.9
LP-8	142.1	161.6	152.5	152.0	150.6	163.7
SIL	133.5	143.3	142.0	141.5	143.4	153.7
80BA	140.4	156.2	150.3	148.6	149.7	161.1
PNOB	154.8	169.6	163.4	163.0	163.3	174.4

YF-12-INLET NOISE SUPPRESSION
 16:09 NOV 08, '79 TEST 915A
 YF-12 INLET NOISE SUPPRESSION
 RUN 15A
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6400 RPM

RUN	129	130			
FREQ (HZ)	TR 7 K14 0. DEG	TR 8 K12 0. DEG			
50	122.1	118.9			
63	122.8	120.6			
80	124.5	121.7			
100	126.1	124.0			
125	127.3	125.6			
160	128.3	127.0			
200	130.1	129.1			
250	133.1	131.7			
315	135.6	133.6			
400	137.4	133.7			
500	143.5	133.5			
630	145.6	135.9			
800	142.9	138.5			
1K	140.0	138.8			
1.25K	139.2	137.5			
1.6K	141.3	135.1			
2K	141.2	136.2			
2.5K	143.5	137.9			
3.15K	147.6	139.8			
4K	149.2	142.3			
5K	146.5	140.4			
6.3K	146.0	139.5			
8K	145.4	139.1			
10K	144.1	138.4			
63	128.0	125.3			
125	132.1	130.5			
250	138.3	136.6			
500	148.1	139.3			
1K	145.8	143.1			
2K	146.9	141.3			
4K	152.7	145.7			
8K	150.0	143.8			
LP-8	156.5	150.4			
SIL	148.5	143.4			
8DBA	156.5	150.3			
PNDB	170.7	164.5			

YF-12 INLET NOISE SUPPRESSION
 17157 DEC 05, 1979 TEST 9226
 YF-12 INLET NOISE SUPPRESSION
 RUN 155
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6600 RPM

RWN	148	149	150	151	160	161	154	162	156	157
FREQ (Hz)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR 10 F10 135. DEG
50	89.8	91.1	92.6	91.2	91.8	91.8	93.8	96.7	98.8	109.8
63	92.8	92.5	94.5	91.9	93.4	95.2	95.2	98.1	99.8	110.5
80	98.5	99.0	99.1	97.7	99.3	100.9	100.0	103.8	104.1	111.8
100	99.0	97.6	98.3	97.3	98.4	99.6	99.4	102.7	103.9	112.0
125	99.7	97.6	100.3	98.1	98.7	99.4	101.0	101.9	102.8	113.0
160	100.5	98.1	99.6	97.8	98.8	100.2	100.1	100.5	103.0	113.8
200	99.4	98.8	101.3	99.4	99.9	101.5	99.7	101.9	104.4	112.4
250	97.6	97.1	99.7	97.6	99.0	98.5	99.5	100.7	103.1	112.5
315	95.3	95.6	97.5	97.4	97.3	97.6	97.2	99.5	101.6	110.6
400	95.7	96.2	100.0	96.9	96.1	96.5	95.8	98.1	100.7	109.6
500	97.4	98.4	99.6	97.5	96.4	96.4	96.0	97.3	99.7	107.9
630	99.2	98.9	101.0	98.0	97.4	96.9	95.7	97.1	100.1	106.5
800	99.4	100.2	99.9	97.9	97.0	96.8	95.3	97.5	99.7	105.2
1K	98.8	98.4	98.2	96.4	96.1	95.3	94.2	96.1	98.7	103.6
1.25K	97.6	97.3	97.6	95.9	96.0	95.7	94.7	95.9	100.1	102.5
1.6K	97.8	97.1	98.1	96.6	96.8	96.6	94.8	96.4	101.2	102.2
2K	98.1	97.6	98.4	95.9	96.3	95.8	93.7	94.5	97.6	99.8
2.5K	97.6	98.2	98.7	95.7	95.8	95.8	92.8	93.7	95.6	98.2
3.15K	96.6	97.6	97.8	95.7	94.8	94.1	92.3	92.8	93.6	96.5
4K	95.0	96.8	96.0	93.6	93.5	93.2	91.0	92.5	93.1	95.6
5K	92.5	93.6	93.1	91.0	90.4	89.9	89.3	90.5	92.5	94.8
6.3K	89.2	90.5	88.7	87.5	87.7	86.5	86.1	88.1	89.4	92.7
8K	88.5	90.3	89.9	88.1	87.4	87.3	87.0	88.8	89.6	94.1
10K	85.8	87.1	86.8	84.9	84.1	84.2	84.9	86.8	89.4	94.1
63	100.0	100.4	101.0	99.4	100.8	102.3	102.0	105.4	106.2	115.6
125	104.5	102.5	104.3	102.5	103.4	104.5	105.0	106.6	108.0	117.8
250	102.5	102.2	104.5	103.0	103.6	104.3	103.7	105.6	108.0	116.7
500	102.4	102.8	105.0	102.3	101.5	101.4	100.6	102.3	104.9	112.9
1K	103.4	103.6	103.6	101.6	101.1	100.7	99.8	101.3	104.3	108.7
2K	102.6	102.4	103.2	100.2	101.1	100.8	98.6	99.8	103.5	105.1
4K	99.8	101.1	100.8	98.6	98.6	97.5	95.8	96.8	97.8	100.5
8K	92.8	94.3	93.4	91.8	91.4	91.0	90.8	92.7	94.2	98.5
LP-8	111.0	110.8	112.0	110.0	110.2	110.7	110.2	112.1	114.1	122.4
SIL	102.0	102.4	102.6	100.4	100.1	99.7	98.1	99.3	101.9	109.8
80BA	108.5	108.8	109.4	107.2	107.0	106.7	105.3	106.7	109.6	114.8
PNDB	122.2	122.7	123.2	121.2	120.9	120.9	119.5	120.8	123.2	128.6
*920P.0										

Subtract 2.0 dB from all values of F3

YF-12 INLET NOISE SUPPRESSION
 16:09 NOV 08, 1979 TEST 915A
 YF-12 INLET NOISE SUPPRESSION
 RUN 155
 SPIKE FORWARD
 BYPASS DOORS 8PFN
 6600 RPM

RUN	134	135	136	137	138	139
FREQ (Hz)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG
50	108.4	141.5	126.2	133.0	127.2	148.8
63	109.3	142.7	127.6	133.9	128.3	149.0
80	111.0	143.6	128.7	135.5	130.0	149.6
100	114.7	145.1	131.2	137.3	132.0	150.0
125	126.0	146.4	132.8	139.2	133.4	150.6
160	125.6	147.5	134.6	140.8	135.3	150.3
200	131.0	150.6	138.9	142.8	137.5	151.4
250	132.3	152.6	139.7	143.5	137.7	151.3
315	133.0	155.5	142.0	142.3	137.8	152.0
400	131.9	156.0	144.1	139.9	138.0	153.4
500	129.4	152.8	145.4	137.7	137.5	152.7
630	127.2	147.7	144.9	136.7	138.0	152.6
800	127.4	142.7	141.2	137.4	142.5	152.1
1K	127.7	140.5	136.7	138.6	139.0	151.1
1.25K	127.8	140.7	136.4	138.0	136.3	151.2
1.6K	127.3	137.8	136.9	137.5	137.7	150.1
2K	128.4	136.9	137.0	136.8	139.9	149.5
2.5K	129.0	136.8	137.1	136.5	138.8	148.9
3.15K	129.0	137.0	136.6	136.1	138.0	148.0
4K	128.1	137.0	136.0	135.5	136.9	147.3
5K	126.4	137.1	134.8	135.1	135.6	147.0
6.3K	124.9	137.5	133.9	134.1	134.5	146.6
8K	123.3	137.2	133.2	133.3	133.3	145.6
10K	122.0	136.0	132.6	132.9	132.3	144.8
63	114.5	147.4	132.4	139.0	133.4	153.9
125	129.0	151.2	137.9	144.1	138.6	155.1
250	136.9	158.2	145.2	147.7	142.4	156.3
500	134.7	158.1	149.6	143.1	142.6	157.7
1K	132.4	146.2	143.5	142.8	144.7	156.2
2K	133.0	142.0	141.8	141.7	143.7	154.3
4K	132.7	141.8	140.6	140.3	141.7	152.2
8K	128.3	141.7	138.0	138.2	138.2	150.5
LP-8	141.8	162.0	152.7	152.1	150.8	164.1
SIL	132.7	143.3	142.0	141.6	143.4	154.2
8DBA	139.7	156.7	150.4	148.8	149.7	161.5
PND8	153.7	169.9	163.0	162.8	163.1	175.0

YF-12-INLET NOISE SUPPRESSION
 16709 NOV 08, 1979 TEST 9156
 YF-12 INLET NOISE SUPPRESSION
 RUN 155
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6600 RPM

RUN		140	141
FREQ (HZ)	TR 7 K14 0. DEG	TR 8 K12 0. DEG	
50	121.9	118.9	
63	123.9	120.6	
80	124.6	122.0	
100	126.7	124.6	
125	127.4	126.2	
160	128.6	127.1	
200	130.5	129.9	
250	133.6	132.0	
315	136.2	134.2	
400	137.7	134.3	
500	144.1	134.4	
630	145.9	137.1	
800	143.3	139.9	
1K	140.7	135.1	
1.25K	140.0	134.9	
1.6K	142.4	134.4	
2K	142.7	136.8	
2.5K	143.6	137.4	
3.15K	146.3	139.0	
4K	147.4	141.0	
5K	146.1	139.8	
6.3K	145.5	139.1	
8K	144.9	138.6	
10K	143.8	138.0	
63	128.4	125.5	
125	132.4	130.9	
250	138.8	137.2	
500	148.5	140.2	
1K	146.4	142.1	
2K	147.7	141.1	
4K	151.4	144.8	
8K	149.5	143.4	
LP-8	156.1	149.9	
SIL	148.5	142.7	
80BA	156.0	149.7	
PND8	169.9	163.8	
STOP 0			

YF-12 INLET NOISE SUPPRESSION
 10124 DEC 12, '79 TEST 9477
 YF-12 INLET NOISE SUPPRESSION
 RUN 158
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 5000 RPM

BL TAPED

RUN	102	103	107	108	109	110	111	112	113	114
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR 10 F10 135. DEG
50	81.6	82.8	88.9	83.2	82.7	82.7	86.3	88.5	90.7	93.9
63	81.9	81.0	87.1	80.6	82.9	85.5	85.5	88.6	90.7	92.1
80	88.0	85.7	92.1	85.8	86.9	87.8	87.2	88.9	90.2	93.1
100	88.9	86.2	92.2	87.3	87.3	87.4	87.8	88.7	89.5	93.5
125	94.2	92.6	99.1	93.0	93.3	93.3	92.7	92.2	91.7	95.1
160	91.1	91.5	97.0	92.8	92.2	92.8	91.8	91.6	90.4	98.0
200	91.9	94.1	100.0	94.2	92.5	94.3	91.0	91.5	90.5	98.3
250	91.6	91.0	98.6	91.4	91.9	90.1	90.3	88.9	90.8	99.0
315	89.7	89.6	95.2	90.8	89.5	90.2	88.5	88.2	89.9	96.8
400	90.4	91.1	98.0	91.3	90.1	90.3	88.6	88.4	89.6	97.1
500	94.5	95.7	99.8	93.7	92.5	91.8	91.0	90.3	92.6	97.4
630	94.9	95.3	100.8	94.2	93.7	93.8	93.0	92.3	93.4	97.7
800	95.7	96.1	100.3	94.5	93.5	93.6	91.9	91.2	92.4	96.3
1K	94.8	94.7	99.3	93.4	93.0	93.2	91.1	90.5	91.9	95.7
1.25K	93.6	93.4	97.3	92.2	92.5	92.3	90.6	89.1	89.9	93.5
1.6K	93.4	93.2	97.8	92.7	93.2	93.1	90.7	88.7	89.3	91.1
2K	95.8	95.6	99.7	93.3	93.7	93.7	91.1	89.0	89.1	90.7
2.5K	102.7	102.8	106.7	99.7	98.8	97.8	93.0	89.7	88.7	91.8
3.15K	100.1	101.9	105.6	100.2	99.1	98.3	94.9	90.3	87.5	90.9
4K	94.9	97.3	100.2	94.3	94.0	93.6	90.3	87.5	84.8	88.6
5K	93.6	95.0	98.0	92.4	91.3	90.4	87.7	84.7	84.2	88.6
6.3K	91.3	93.1	94.9	90.3	90.2	88.5	86.5	85.0	84.7	88.8
8K	90.9	92.7	96.1	90.9	90.1	89.7	88.6	88.5	89.0	97.3
10K	87.9	88.9	92.1	86.6	85.5	84.9	84.2	81.7	81.5	90.8
63	89.7	88.4	94.7	88.5	89.4	90.4	91.1	93.4	95.3	97.9
125	96.7	95.6	101.7	96.5	96.3	96.6	96.0	95.9	95.4	100.7
250	95.9	96.8	103.1	97.2	96.3	96.8	94.8	94.5	95.2	102.9
500	98.5	99.3	104.4	98.0	97.1	97.0	96.0	95.4	96.9	102.2
1K	99.5	99.6	103.9	98.2	97.8	97.8	96.0	95.1	96.3	100.1
2K	103.9	103.9	107.9	101.2	100.8	100.2	96.5	93.9	93.8	96.0
4K	102.0	103.8	107.2	101.7	100.8	100.1	96.8	92.8	90.5	94.3
8K	95.0	96.7	99.4	94.4	93.9	92.9	91.6	90.7	90.9	98.7
LP-M	108.4	109.0	113.3	107.3	106.7	106.4	104.3	103.3	103.8	108.9
SIL	101.8	102.5	106.3	100.4	99.4	99.4	96.4	94.0	93.6	96.8
60DBA	108.4	109.1	113.0	106.9	106.3	105.8	102.9	100.8	101.1	105.5
PND8	122.9	123.4	127.4	121.7	121.0	120.5	117.8	115.2	114.5	119.2

Subtract 1.0 dB from all values of F3

YF-12 INLET NOISE SUPPRESSION
 12122 DEC 07, 1979 TEST 935A
 YF-12 INLET NOISE SUPPRESSION
 RUN 15A
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 5000 RPM

RUN	72	73	74	75	76	77	78	79
FREQ (HZ)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	106.8	142.2	126.2	133.3	128.1	133.1	117.7	122.4
63	107.1	143.2	127.9	134.1	128.3	135.2	119.5	122.3
80	109.2	144.5	129.6	135.9	130.1	136.4	120.4	122.5
100	111.4	145.4	131.7	137.9	132.4	135.1	121.6	123.1
125	120.0	146.7	132.7	139.2	133.0	139.0	122.6	124.0
160	122.0	148.0	134.1	140.3	134.7	139.5	123.6	124.9
200	126.9	151.1	139.0	142.3	136.4	139.6	125.1	126.2
250	126.3	152.8	139.6	142.9	137.3	138.3	126.2	126.6
315	125.3	155.7	142.0	142.0	137.7	136.2	128.3	126.3
400	123.5	156.3	144.0	139.9	138.0	135.3	130.6	126.2
500	122.1	153.1	145.1	137.8	137.1	135.0	135.3	126.1
630	118.9	148.2	144.2	136.8	137.2	135.4	137.7	127.3
800	119.5	143.5	141.0	137.2	141.5	135.4	135.5	129.1
1K	118.9	141.2	136.0	137.3	137.3	134.2	130.9	125.7
1.25K	118.6	141.1	134.5	136.4	134.4	134.2	130.4	124.2
1.6K	118.8	137.9	134.5	134.9	134.4	134.3	132.7	126.4
2K	120.9	137.0	135.5	134.7	137.1	135.5	133.2	129.3
2.5K	127.9	138.1	141.2	139.1	142.4	142.4	141.0	139.1
3.15K	129.1	140.2	142.5	141.7	143.7	144.4	143.1	140.5
4K	124.3	138.6	138.4	137.3	138.3	138.6	138.5	133.6
5K	122.2	137.7	136.1	135.9	136.7	138.1	138.2	133.6
6.3K	122.1	138.5	136.6	136.6	137.3	140.1	140.3	136.0
8K	120.6	138.3	135.6	135.8	136.0	138.4	138.8	135.6
10K	119.3	137.4	134.9	135.6	135.1	137.4	138.4	135.7
63	112.6	144.2	132.9	139.5	133.7	140.1	124.1	127.2
125	124.3	151.6	137.7	144.0	138.3	143.0	127.4	128.8
250	131.0	158.4	145.2	147.2	142.0	143.0	131.6	131.2
500	126.7	158.4	149.2	143.2	142.2	140.0	140.1	131.3
1K	123.8	146.9	142.9	141.8	143.5	139.4	137.7	131.6
2K	129.1	142.5	142.2	141.5	144.0	143.7	142.2	132.7
4K	131.0	143.8	144.6	143.8	145.4	146.2	145.4	142.0
8K	125.6	142.9	140.6	140.8	141.0	143.6	144.0	140.5
LP-8	136.7	162.3	153.1	152.4	151.3	151.9	149.8	146.2
STL	128.0	144.4	143.5	142.4	144.3	143.1	141.7	137.8
ODBA	135.6	157.2	151.3	149.6	150.8	150.8	149.9	146.4
PNOB	150.7	170.5	168.6	165.1	163.6	166.2	164.2	160.9
STOP	0							

YF-12 INLET NOISE SUPPRESSION
 13141 APR PA, '80 TEST 10679
 YF-12 INLET NOISE SUPPRESSION
 RUN 159
 SPIKE FORWARD
 BYPASS DOWNS CLOSED
 5600 RPM

RUN	24	25	26	27	28	29	30	31	32	33
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR10 F10 135. DEG
50	83.7	84.5	83.6	84.6	83.6	84.5	87.3	89.3	91.2	97.3
63	86.4	85.7	85.3	85.1	76.9	88.9	88.9	92.1	93.3	96.3
80	89.0	87.5	87.2	87.3	88.7	89.0	89.2	91.2	92.5	96.5
100	92.1	89.5	88.9	89.9	90.2	90.7	91.4	92.0	92.4	97.3
125	93.0	91.3	91.6	90.8	91.3	91.3	91.6	91.9	91.8	98.3
160	95.2	94.7	94.1	94.7	95.0	94.8	93.2	93.1	92.5	100.6
200	93.8	95.4	96.7	97.0	95.9	96.5	93.8	93.2	93.8	100.4
250	93.9	93.1	94.8	94.1	94.3	93.0	93.2	91.6	93.5	101.5
315	92.7	92.4	92.3	93.4	91.7	92.2	90.1	90.4	91.6	99.0
400	93.6	93.8	94.8	93.8	91.8	91.5	89.6	89.7	90.8	98.7
500	96.9	97.7	96.4	95.9	93.5	92.4	90.6	89.2	90.3	96.2
630	96.7	96.0	96.2	95.4	94.2	92.9	91.9	89.2	90.7	95.2
800	96.6	96.8	95.0	94.6	93.0	92.2	89.8	88.9	90.1	93.6
1K	96.5	95.8	94.0	93.6	92.3	91.3	89.0	87.8	90.1	92.7
1.25K	95.9	95.1	93.3	93.1	92.2	91.4	89.0	87.9	91.7	97.1
1.6K	95.2	94.1	93.1	93.2	92.4	91.7	88.1	85.8	87.7	90.8
2K	95.5	95.1	93.8	92.3	91.6	91.2	88.0	85.8	87.1	88.5
2.5K	94.5	98.5	97.0	95.7	94.0	93.0	88.9	85.7	85.7	88.4
3.15K	99.0	100.0	98.2	98.3	95.7	94.2	91.4	87.9	86.2	88.6
4K	96.3	97.8	95.6	94.8	93.9	92.5	89.7	87.4	84.7	88.3
5K	93.7	94.7	92.4	92.1	90.4	89.0	87.0	84.6	84.5	87.6
6.3K	90.5	92.3	88.7	89.1	88.2	86.2	84.3	84.1	84.1	87.6
8K	89.8	91.6	89.8	90.1	88.5	87.9	87.3	88.4	89.6	95.0
10K	87.1	88.2	86.3	86.8	85.4	84.6	85.6	85.2	86.5	95.9
63	91.7	90.8	90.4	90.6	91.7	92.7	93.3	95.8	97.2	101.5
125	98.4	97.2	96.8	97.1	97.5	97.4	96.9	97.2	97.0	103.7
250	98.3	98.6	99.7	99.9	99.1	99.1	97.4	96.7	97.9	105.2
500	100.7	100.9	100.6	99.9	98.1	97.0	95.6	94.2	95.4	101.7
1K	101.1	100.7	98.9	98.6	97.3	96.4	94.0	93.0	95.5	99.7
2K	101.5	101.1	99.7	98.8	97.5	96.8	93.1	90.6	91.7	94.2
4K	101.7	102.8	100.8	100.6	98.6	97.1	94.5	91.6	90.0	93.0
8K	94.1	95.8	93.3	93.7	92.3	91.2	90.6	91.1	92.1	98.8
LP-6	108.5	108.7	107.7	107.4	106.2	105.6	103.9	103.4	104.4	110.3
SIL	101.4	101.5	99.8	99.3	97.8	96.8	93.9	91.7	92.4	95.6
0JBA	107.7	108.0	106.5	106.0	104.4	103.4	100.9	99.2	100.2	105.1
PADB	122.1	122.6	121.1	121.0	119.3	118.2	116.0	114.1	114.1	118.7

*STOP 0

YF-12 INLET NOISE SUPPRESSION
 11139 JUN 05, '80 TEST 11117
 YF-12 INLET NOISE SUPPRESSION
 RUN 159
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 5600 RPM

FREQ (Hz)	16		17		18		19		20		21		22		23	
	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG								
50	112.7	143.6	127.3	134.9	129.1	134.4	119.2	121.0								
63	113.4	144.7	129.3	135.9	130.0	137.3	121.3	122.2								
80	115.5	145.5	130.7	137.7	131.7	137.0	121.8	122.6								
100	117.9	147.2	133.8	139.6	134.0	137.6	123.4	124.1								
125	122.5	148.3	133.6	140.7	134.3	140.9	124.7	126.0								
150	129.3	149.8	135.0	142.8	136.6	141.3	125.9	126.7								
200	133.7	153.1	140.8	144.4	138.3	142.7	128.0	129.1								
250	134.0	155.5	141.7	145.1	139.8	142.2	129.4	130.3								
315	132.6	158.2	143.5	143.7	140.3	139.1	131.3	130.0								
400	131.1	159.1	145.8	142.4	140.9	138.4	132.9	129.8								
500	129.9	156.1	147.0	140.4	140.1	138.4	138.9	129.9								
630	126.4	150.9	146.3	139.6	140.7	139.2	141.3	131.5								
800	127.0	146.6	144.4	140.5	145.3	139.1	139.1	132.4								
1K	126.7	144.6	139.4	140.6	140.4	137.8	135.0	130.5								
1.25K	126.5	144.4	138.0	139.8	138.0	138.3	134.4	128.5								
1.6K	126.1	141.3	138.3	138.6	138.3	138.4	136.6	130.4								
2K	126.0	140.5	138.8	137.9	140.1	138.8	136.5	132.4								
2.5K	128.6	140.1	140.2	138.5	141.4	140.6	140.3	135.6								
3.15K	130.8	140.9	142.7	141.8	144.6	145.6	147.5	143.5								
4K	129.8	141.0	142.1	141.8	143.3	144.3	143.9	139.1								
5K	127.7	140.2	139.5	139.9	140.2	142.3	141.7	136.8								
6.3K	126.5	140.3	138.2	138.6	139.1	142.2	143.1	138.9								
8K	125.2	140.6	137.5	138.3	138.2	141.5	141.9	138.0								
10K	123.9	140.4	136.8	137.6	137.0	140.0	141.5	137.9								
63	118.8	149.4	134.1	141.1	135.2	141.2	125.7	126.8								
125	130.4	153.3	138.9	146.0	139.9	146.0	129.6	130.5								
250	138.2	160.8	146.9	149.2	144.3	146.4	134.6	134.6								
500	134.3	161.3	161.2	145.7	145.3	143.8	143.6	135.3								
1K	131.5	150.1	146.3	145.1	147.1	143.2	141.5	135.5								
2K	131.8	145.5	144.0	143.1	144.9	144.1	143.0	138.1								
4K	134.4	145.5	146.4	146.0	147.8	149.0	149.8	145.5								
8K	130.1	145.2	142.3	142.9	142.9	146.1	147.0	143.1								
LP-8	142.4	164.9	155.0	154.6	153.7	154.4	153.1	148.7								
SIL	132.6	147.0	145.6	144.8	146.6	145.5	144.7	139.7								
QUBA	139.9	159.9	153.3	151.9	153.0	153.1	153.3	148.8								
PNDB	154.7	173.0	167.0	166.7	167.5	168.4	167.9	163.7								
*STOP O																

YF-12 INLET NOISE SUPPRESSION
 16154 DEC 13, '79 TEST 9477
 YF-12 INLET NOISE SUPPRESSION
 RUN 160
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6000 RPM

RUN	123	124	125	126	127	128	129	130	131	132
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR10 F10 135. DEG
50	82.5	82.4	89.0	83.9	83.7	84.4	86.4	88.5	90.3	97.8
63	86.5	85.8	92.2	85.2	87.6	89.8	88.9	92.2	93.8	98.2
80	89.2	87.7	94.2	87.7	89.1	89.8	90.3	91.8	93.6	98.2
100	92.7	90.2	96.0	90.9	90.8	91.3	91.6	93.6	94.6	98.9
125	92.1	90.3	97.1	90.6	91.2	91.5	92.9	93.7	93.8	100.5
160	95.1	94.8	100.3	95.0	95.4	95.4	94.2	94.0	94.5	102.9
200	93.9	95.3	102.9	96.1	95.8	95.9	94.1	94.5	95.4	101.7
250	95.4	95.1	102.4	95.5	96.4	95.1	95.5	93.7	95.4	102.5
315	94.3	94.0	99.5	94.6	93.2	93.9	91.8	92.8	93.5	100.3
400	94.5	95.1	101.9	94.7	93.1	92.9	91.5	91.5	93.0	99.5
500	96.2	97.4	101.7	95.7	93.9	93.3	91.9	90.8	92.1	97.2
630	96.0	95.8	101.7	95.0	93.7	93.0	91.5	90.7	93.1	96.3
800	96.3	96.7	100.5	94.6	93.3	92.9	91.4	91.0	92.8	95.8
1K	96.5	96.5	100.4	93.9	93.2	92.3	90.8	90.6	93.3	95.6
1.25K	95.7	95.8	99.6	93.8	93.6	93.1	91.3	91.4	97.8	99.4
1.6K	94.2	94.0	94.4	91.9	91.6	91.3	89.4	89.6	93.8	97.2
2K	94.8	95.4	100.1	92.4	91.3	90.8	88.6	87.5	89.8	92.8
2.5K	95.0	95.9	99.9	93.1	92.0	91.2	88.2	87.0	88.1	92.0
3.15K	95.4	96.9	100.5	94.8	93.0	91.5	89.6	88.4	88.1	90.7
4K	94.1	96.3	99.4	92.3	91.8	90.7	88.4	88.2	88.2	91.4
5K	91.8	93.8	96.4	90.2	88.8	87.8	86.5	85.6	87.4	91.5
6.3K	88.3	91.0	92.9	87.4	86.9	85.1	83.7	84.1	85.2	88.8
8K	88.0	90.8	94.5	89.1	88.1	87.7	87.2	88.2	90.1	93.1
10K	85.8	87.6	91.6	86.5	85.5	85.2	86.6	86.5	89.5	96.5
63	91.6	90.6	97.1	90.8	92.1	93.4	93.6	95.9	97.6	102.8
125	98.3	97.1	102.9	97.5	97.8	97.9	97.8	98.6	99.1	105.9
250	99.4	99.6	106.6	100.2	100.1	99.8	98.8	98.5	99.6	106.4
500	100.4	101.0	106.6	99.9	98.3	97.8	96.4	95.8	97.5	102.6
1K	100.9	101.1	105.0	98.9	98.2	97.6	95.9	95.8	100.1	102.1
2K	99.4	100.0	104.3	97.3	96.4	95.9	93.5	93.0	94.0	99.4
4K	98.8	100.6	103.9	97.6	96.3	95.0	93.1	92.4	92.7	96.0
8K	92.3	94.8	94.0	92.4	91.7	90.9	90.9	91.4	92.5	94.6
LP-8	107.6	108.2	113.1	106.8	106.2	105.8	104.7	104.9	106.7	111.9
SIL	99.7	100.6	104.4	97.9	97.0	96.2	94.2	93.7	96.2	99.2
8DBA	106.2	107.0	111.2	104.7	103.8	103.1	101.3	101.0	103.8	107.3
PNOB	120.0	121.1	125.3	119.2	118.0	117.2	115.7	115.2	116.7	120.8

*STOP: 0

Subtract 1.0 dB from all values of F3

YF-12 INLET NOISE SUPPRESSION
 12129 DEC 07, '79 TEST 9358
 YF-12 INLET NOISE SUPPRESSION
 RUN 160
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 4000 RPM

RUN	83	84	85	86	87	88	89	90
FREQ (HZ)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	109.7	143.9	128.3	135.0	129.0	135.3	118.9	118.4
63	110.5	145.1	129.9	136.2	130.5	132.3	121.0	120.1
80	111.8	146.3	131.4	138.2	132.3	136.8	122.1	121.3
100	114.1	147.4	135.0	140.0	134.4	139.1	123.7	123.0
125	117.4	148.7	134.6	141.2	134.6	142.4	125.5	126.0
160	125.2	150.2	135.1	143.6	134.6	141.0	126.2	127.0
200	129.4	153.5	140.7	145.6	138.8	143.4	128.5	129.2
250	131.5	156.4	143.1	146.0	140.5	142.8	130.7	131.0
315	129.5	159.0	143.9	144.6	141.3	140.2	132.4	131.9
400	127.7	160.4	146.7	143.5	142.0	140.1	133.8	131.0
500	125.5	157.3	144.1	141.6	141.5	140.0	140.1	131.5
630	121.9	152.5	147.7	141.0	142.4	141.2	143.3	135.3
800	122.6	148.3	146.1	142.2	147.0	140.8	141.7	135.4
1K	123.0	146.3	141.0	142.2	142.0	139.6	132.3	131.6
1.25K	123.1	146.0	139.8	141.6	139.9	140.5	136.4	131.7
1.6K	120.3	143.0	140.0	140.1	139.7	140.0	139.2	134.3
2K	121.1	142.1	140.5	139.6	141.7	140.6	138.7	135.3
2.5K	121.5	141.8	141.0	139.6	142.3	141.6	141.7	139.4
3.15K	122.8	141.9	143.0	142.4	145.7	146.5	141.0	147.7
4K	122.6	142.2	143.9	144.5	146.4	148.5	150.0	146.0
5K	121.4	141.9	142.4	143.7	144.1	147.1	146.5	141.5
6.3K	120.9	141.7	140.7	141.4	141.8	145.5	145.9	141.1
8K	120.3	141.8	139.4	140.7	140.4	144.3	145.5	141.4
10K	119.4	142.0	138.7	140.1	139.1	142.9	144.3	140.2
63	115.5	150.0	134.8	141.6	135.6	141.3	125.7	124.9
125	126.1	153.7	139.7	146.6	140.1	145.8	130.0	130.4
250	135.0	161.6	147.5	150.2	145.1	147.1	125.8	135.6
500	130.4	162.6	152.3	148.9	146.7	145.2	145.3	137.8
1K	127.7	151.8	148.0	146.8	148.8	145.1	143.9	138.1
2K	125.8	147.1	145.3	144.6	146.2	145.5	144.8	141.7
4K	127.1	146.8	147.9	148.4	150.3	152.2	154.4	150.5
8K	125.0	146.6	144.4	145.5	148.4	149.1	140.0	145.7
LP-8	138.1	149.9	156.3	156.0	155.5	156.5	156.7	152.6
SIL	126.8	148.6	147.1	146.6	148.4	147.6	147.7	143.4
ODBA	134.6	161.1	164.7	153.7	155.0	155.7	157.1	153.1
PNOB	148.7	174.3	168.3	168.7	169.2	170.8	171.1	167.5
STOP 0								

YF-12 INLET NOISE SUPPRESSION
 12125 DEC 13, 1979 TEST 9477
 YF-12 INLET NOISE SUPPRESSION

RUN 161
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6200 RPM

BL TAPED

RUN	134	135	136	137	138	139	140	141	142	143
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR10 F10 135. DEG
50	83.6	83.7	90.4	85.7	85.6	85.8	87.6	89.9	91.3	99.7
63	88.0	87.5	94.1	87.2	88.9	90.9	90.1	93.5	94.9	100.1
80	89.6	88.4	95.2	89.2	90.6	90.9	91.6	93.6	95.1	100.2
100	93.5	91.1	96.8	91.7	91.6	92.2	92.6	95.0	94.2	100.8
125	92.9	91.0	97.8	91.7	92.5	92.5	94.0	95.3	95.4	102.0
160	96.0	95.8	100.8	95.9	96.2	95.9	95.1	95.0	95.8	104.9
200	94.3	95.4	102.8	96.1	96.1	96.2	94.4	95.3	94.4	102.6
250	96.3	96.1	103.6	96.4	97.6	95.7	95.8	94.7	96.6	103.9
315	95.5	95.2	100.6	96.1	94.5	95.0	93.2	93.9	94.9	101.0
400	94.5	95.2	101.8	95.0	93.8	93.3	92.0	92.1	94.4	100.4
500	95.0	96.4	101.1	94.9	93.5	92.5	91.8	91.3	93.3	98.4
630	94.5	94.8	100.6	94.2	93.2	92.6	91.3	91.3	93.9	97.6
800	96.0	96.3	100.3	94.4	93.5	93.4	91.7	92.1	94.0	97.2
1K	96.3	96.4	100.5	94.3	93.7	93.0	91.5	91.5	94.6	96.7
1.25K	94.7	95.0	99.2	93.5	93.5	93.0	91.2	91.8	97.2	98.2
1.6K	93.7	93.6	94.8	92.6	92.6	92.3	91.2	92.1	97.3	100.9
2K	93.3	93.9	98.9	91.6	90.7	90.3	88.6	87.9	91.4	95.5
2.5K	91.4	92.6	96.4	90.2	89.6	89.2	87.2	87.0	89.3	93.6
3.15K	89.9	91.8	95.6	90.3	89.0	88.1	87.0	87.3	88.2	91.9
4K	89.1	91.4	94.6	88.1	87.9	87.7	86.2	87.2	89.0	91.9
5K	87.1	89.1	92.1	86.6	86.6	85.2	85.0	85.6	88.4	92.6
6.3K	83.6	86.4	88.7	84.0	84.0	82.8	82.2	83.2	85.5	89.3
8K	83.7	86.5	91.0	86.1	85.8	85.7	85.8	87.1	89.6	92.3
10K	82.2	84.1	88.9	84.5	83.7	83.9	85.8	85.9	89.8	95.5
63	92.5	91.7	98.4	92.4	93.6	94.5	94.8	97.4	98.9	104.8
125	99.1	98.1	103.6	98.3	98.7	98.7	98.8	99.9	100.6	107.7
250	100.2	100.4	107.3	101.0	101.0	100.4	99.4	99.4	100.8	107.2
500	99.5	100.3	106.0	99.5	98.3	97.6	96.5	96.4	98.7	103.7
1K	100.5	100.7	104.8	98.9	98.3	97.9	96.2	96.6	100.2	102.2
2K	97.7	98.2	103.0	96.4	95.9	95.6	94.1	94.4	94.8	102.6
4K	93.6	95.7	99.1	93.4	92.5	92.0	90.9	91.6	93.3	96.9
8K	88.0	90.6	94.4	89.7	89.4	89.0	89.7	90.5	93.4	97.8
LP-8	106.9	107.2	112.7	106.5	106.3	105.9	105.1	105.8	107.9	113.2
SIL	97.3	98.2	102.3	96.2	95.4	95.2	93.8	94.2	97.5	100.6
ODBA	104.5	105.1	109.8	103.4	103.0	102.5	101.2	101.5	104.8	108.4
PNDB	117.2	118.2	122.8	114.9	114.2	115.8	114.8	115.3	118.4	122.6

STOP 0 Subtract 6.0 dB from all values of F3

YF-12 INLET NOISE SUPPRESSION
 11157 DEC 07, 1979 TEST 935A
 YF-12 INLET NOISE SUPPRESSION
 RUN 161
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6200 RPM

RUN	94	95	96	97	98	99	100	101
FREQ (HZ)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K10 O. DEG	TR 8 K12 O. DEG
50	110.1	144.0	128.6	135.6	129.3	136.1	121.4	118.3
63	110.6	145.2	130.3	136.9	130.5	137.2	121.5	120.5
80	111.8	146.2	131.5	138.7	131.9	137.2	122.6	121.6
100	114.5	147.6	135.6	140.8	134.6	140.0	124.6	123.5
125	117.7	148.8	135.3	141.8	134.7	143.4	125.9	126.2
160	126.0	150.4	135.2	144.1	136.8	141.4	127.1	127.8
200	129.4	153.5	140.5	146.1	139.1	144.2	128.6	129.6
250	132.1	157.0	143.2	146.2	140.7	143.3	131.5	131.7
315	130.4	159.5	143.9	145.1	141.8	140.7	133.4	133.2
400	128.0	160.8	146.8	144.0	142.6	140.9	134.4	132.0
500	124.2	157.7	148.3	142.3	142.3	141.0	140.8	132.7
630	121.1	153.0	148.2	141.8	143.2	142.4	143.4	135.4
800	122.6	148.9	146.9	142.9	144.1	142.2	142.5	137.0
1K	123.2	146.9	142.1	142.9	142.2	140.8	138.5	136.4
1.25K	122.7	146.5	140.9	142.4	141.0	141.7	137.4	137.3
1.6K	119.2	143.6	141.0	140.9	140.5	141.1	140.1	135.2
2K	120.0	142.7	141.4	140.4	142.4	141.5	140.4	136.5
2.5K	119.1	142.3	141.2	140.2	142.2	142.0	142.6	139.0
3.15K	118.9	142.1	141.5	141.1	143.6	144.3	148.3	141.5
4K	118.4	141.7	142.0	142.7	144.3	146.6	149.2	144.1
5K	118.0	141.6	141.3	142.6	142.9	146.4	146.3	141.3
6.3K	118.0	141.6	140.3	141.0	141.1	145.1	145.7	140.0
8K	117.6	141.5	139.2	140.1	139.6	143.4	145.4	140.1
10K	116.8	141.1	138.6	139.5	138.4	142.3	144.0	139.2
63	115.7	150.0	145.0	142.0	135.5	141.9	126.7	125.1
125	126.8	153.8	140.1	147.2	140.3	146.4	130.7	131.0
250	135.5	162.0	147.8	150.6	145.4	147.7	136.9	136.5
500	130.1	163.0	152.6	147.4	147.5	146.3	145.6	138.4
1K	127.6	152.3	148.9	147.5	149.8	146.4	144.8	141.7
2K	124.2	147.7	146.0	145.3	146.4	144.3	144.0	142.0
4K	123.2	146.6	146.4	147.0	148.4	150.7	153.1	147.2
8K	122.3	146.2	144.2	145.0	144.6	148.8	149.8	144.6
LP-8	138.0	166.3	146.5	156.2	155.4	156.4	156.2	151.0
SPL	125.0	148.9	147.1	146.6	148.3	147.8	148.0	143.4
ODBA	133.6	161.5	154.8	153.6	154.6	155.2	154.4	151.1
PNDB	144.8	174.5	147.7	168.1	168.3	170.1	170.5	165.5
*STOP *								

YF-12 INLET NOISE SUPPRESSION
 16:41 DEC 13, 1979 TEST 9477
 YF-12 INLET NOISE SUPPRESSION
 RUN 162
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6400 RPM

RUN	145	146	147	148	149	150	151	152	153	154
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR10 F10 135. DEG
50	85.7	85.8	92.6	87.9	87.6	87.9	90.1	92.5	94.0	103.0
63	90.0	89.4	94.3	89.3	90.6	92.2	92.3	95.1	96.5	103.7
80	92.4	91.9	98.2	91.9	93.5	93.8	95.4	96.7	98.7	103.4
100	93.7	91.5	97.4	92.5	92.7	93.1	93.9	97.1	98.3	104.0
125	94.8	92.7	99.3	93.5	93.7	94.3	96.5	97.5	98.2	105.2
160	96.8	96.4	101.4	96.5	96.5	96.8	96.5	96.5	97.7	107.2
200	94.6	95.4	103.2	96.6	96.6	97.0	94.7	96.3	98.0	105.3
250	97.0	96.7	104.4	96.8	98.4	96.4	96.3	96.4	97.9	104.4
315	95.9	95.7	100.9	96.6	95.1	95.8	93.9	95.2	96.2	102.4
400	93.0	93.8	101.0	94.3	93.3	93.1	92.7	93.3	95.8	101.6
500	93.6	94.7	99.6	93.6	92.7	92.4	92.3	92.4	94.9	100.4
630	92.9	93.2	99.3	93.3	92.5	92.4	92.0	92.6	95.9	99.8
800	95.7	95.6	99.9	94.3	93.3	93.5	92.6	93.3	94.7	98.8
1K	95.8	95.8	100.4	94.6	94.0	93.8	93.5	93.7	96.1	97.6
1.25K	92.9	93.8	94.1	92.7	92.6	92.4	91.5	92.9	97.8	97.4
1.6K	92.7	92.9	98.0	92.6	91.7	92.5	91.7	93.9	100.0	100.2
2K	91.0	92.1	97.5	90.5	89.8	89.6	88.5	89.5	94.2	96.3
2.5K	88.6	90.4	95.2	88.8	88.5	88.7	87.3	88.9	91.5	93.7
3.15K	86.5	89.0	93.1	88.1	87.2	87.2	86.3	87.2	89.6	92.0
4K	86.2	88.1	92.1	86.2	86.2	87.5	85.0	86.8	89.9	91.8
5K	84.1	85.7	89.6	84.6	84.0	84.0	84.1	85.6	89.7	91.8
6.3K	81.0	83.5	86.5	82.2	82.6	81.7	81.3	83.1	84.1	89.0
8K	81.8	84.0	88.9	84.4	84.1	84.3	84.5	86.4	89.0	91.2
10K	80.9	82.1	87.2	82.9	82.3	82.9	84.7	85.4	89.5	93.8
63	95.0	94.5	101.0	94.8	95.9	96.7	97.9	99.9	101.5	108.1
125	100.1	98.8	104.5	99.3	99.4	99.8	100.6	101.8	102.9	110.4
250	100.7	100.7	107.8	101.5	101.7	101.2	99.9	100.8	102.2	108.9
500	97.9	98.7	104.8	98.5	97.6	97.4	97.1	97.6	100.3	105.4
1K	99.7	99.9	104.3	98.7	98.1	98.1	97.4	98.1	101.4	102.7
2K	95.8	96.7	101.8	95.7	95.0	95.4	94.3	96.2	101.4	102.3
4K	90.5	92.6	96.6	91.3	90.8	91.3	90.0	91.4	94.5	96.6
8K	86.0	88.0	92.5	88.0	87.9	87.9	88.6	89.9	93.2	96.6
LP-8	106.6	106.7	112.6	106.6	106.5	106.8	106.3	107.4	109.7	115.2
SIL	95.4	96.4	100.9	95.2	94.6	94.9	93.9	95.2	99.1	100.5
ODBA	103.2	103.8	108.8	103.0	102.4	102.5	101.7	102.8	106.5	109.0
PNDB	115.7	116.6	121.8	118.9	115.5	115.7	115.0	116.5	120.3	123.1

FURTRAN RUN-TIME ERROR IN 19BCDHEAD CALLED AT LOC X'06A741.
 END-OF-FILE ON UNIT 105

LER

Subtract 6.0 dB from all values of F3

YF-12 INLET NOISE SUPPRESSION
 12115 DEC 07, 1979 TEST 935A
 YF-12 INLET NOISE SUPPRESSION
 RUN 162
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6400 RPM

RUN	105	106	107	108	109	110	111	112
FREQ (HZ)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K10 O. DEG	TR 8 K12 O. DEG
50	107.5	144.3	128.9	135.4	129.3	136.2	120.2	118.9
63	109.1	145.5	130.4	136.9	130.3	137.8	121.7	120.5
80	110.1	146.8	131.6	139.0	132.5	136.9	123.2	122.0
100	113.6	148.1	135.6	140.7	134.3	140.6	124.7	123.5
125	117.2	148.9	135.6	142.1	135.0	143.4	126.8	124.5
160	125.6	150.4	135.6	144.5	137.0	142.0	128.0	128.5
200	128.9	153.6	140.4	146.7	139.6	144.8	129.3	130.1
250	131.9	157.1	144.3	148.9	141.1	144.0	132.0	131.3
315	130.7	159.7	144.0	145.6	142.1	141.1	134.1	133.5
400	126.9	161.0	147.0	144.4	142.8	141.6	135.1	132.7
500	122.5	158.1	148.8	142.7	142.8	141.3	141.9	133.2
630	118.7	153.3	148.6	142.3	143.9	142.7	143.7	135.6
800	122.3	149.3	147.7	143.6	148.7	142.7	142.7	138.8
1K	123.2	147.4	147.8	143.6	143.6	141.4	139.3	142.2
1.25K	121.5	147.1	141.6	143.1	141.7	142.5	138.3	138.3
1.6K	117.9	144.1	141.8	141.5	141.1	141.7	140.0	135.9
2K	118.5	143.1	141.9	141.0	142.8	142.0	140.7	136.4
2.5K	117.3	142.9	141.4	140.5	142.2	142.2	142.8	138.3
3.15K	116.6	142.5	141.1	140.7	142.2	142.8	146.4	139.9
4K	116.3	141.9	140.9	141.3	142.2	144.3	148.5	142.1
5K	116.1	141.5	140.4	141.4	141.4	144.7	145.5	140.2
6.3K	116.5	141.6	139.8	140.3	140.1	143.9	145.0	139.3
8K	116.2	141.7	139.1	139.6	138.8	142.3	144.7	139.0
10K	115.5	141.3	138.7	139.1	137.7	141.3	143.4	138.3
63	113.8	150.5	135.2	142.1	135.7	141.8	126.7	125.4
125	126.5	154.0	140.4	147.5	140.4	146.9	131.5	131.4
250	135.5	162.2	148.0	151.0	145.8	148.9	137.0	136.8
500	128.7	163.3	153.0	148.0	148.0	146.7	144.1	138.8
1K	127.2	152.8	149.6	148.2	150.5	147.0	145.3	144.9
2K	122.7	148.2	146.5	145.8	146.4	146.7	146.1	141.8
4K	121.1	146.7	145.6	145.9	146.7	148.8	151.7	145.4
8K	120.9	146.3	144.0	144.4	143.8	147.4	149.2	143.7
LP-8	137.5	166.5	164.7	156.4	155.4	156.1	155.5	150.8
SIL	123.6	149.2	147.2	146.6	148.0	147.5	147.7	144.1
80BA	132.7	161.8	155.0	153.7	154.5	154.5	155.6	150.7
PNDB	145.9	174.8	167.5	167.7	167.5	169.0	169.8	164.6
*STOP	0							

YF-12 INLET NOISE SUPPRESSION
 17115 DEC 13, 1979 TEST 9477
 YF-12 INLET NOISE SUPPRESSION
 RUN 163
 SPIKE FORWARD
 BYPASS DAMPS CLOSED
 6600 RPM

FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR 10 F10 135. DEG
50	89.6	89.9	96.8	92.1	91.8	92.1	93.7	91.4	98.0	109.4
63	92.1	91.9	98.5	92.0	93.0	94.5	94.8	92.4	99.3	110.8
80	98.7	98.7	107.6	98.2	99.0	100.6	100.2	98.7	104.3	111.1
100	98.7	97.3	107.4	97.4	98.0	99.2	99.3	97.4	103.6	111.3
125	98.7	96.2	107.7	97.4	97.3	98.1	100.6	96.3	102.4	112.3
160	100.5	98.8	104.2	98.9	99.4	100.6	100.1	95.1	107.8	113.1
200	99.0	98.7	105.9	99.4	99.8	101.2	99.5	96.6	104.2	111.6
250	98.8	98.5	105.4	98.9	100.3	99.1	99.8	95.8	102.7	111.5
315	96.1	96.4	101.6	97.8	96.7	97.5	97.0	94.0	101.1	109.6
400	92.7	93.9	100.9	94.6	94.0	94.8	94.9	92.3	100.2	108.4
500	91.8	92.9	98.5	93.2	93.3	93.8	94.8	91.3	99.3	107.0
630	91.8	92.1	98.7	93.4	93.5	94.4	94.5	91.4	99.7	105.4
800	95.9	95.7	100.1	95.2	94.5	95.3	94.6	92.4	99.3	104.1
1K	95.1	95.5	100.9	94.7	94.4	94.7	94.3	90.1	98.3	102.6
1.25K	91.0	92.5	97.8	92.6	92.8	93.4	93.0	89.6	99.6	101.5
1.6K	90.5	92.1	97.5	92.1	92.3	93.2	92.4	89.8	100.6	101.2
2K	88.5	90.7	96.2	89.9	89.6	90.1	89.9	86.7	96.6	98.5
2.5K	85.9	89.6	93.7	88.1	88.0	90.3	88.6	85.2	94.1	96.9
3.15K	84.2	87.2	92.0	87.4	86.6	84.9	87.3	83.6	92.1	95.1
4K	84.1	86.6	90.9	85.6	85.9	86.6	85.7	82.9	91.6	94.3
5K	82.2	84.7	88.3	83.8	83.4	83.6	83.9	81.4	90.9	93.4
6.3K	79.3	82.7	85.4	81.3	81.7	81.1	81.2	78.7	87.4	91.0
8K	80.8	83.5	87.8	82.8	82.8	83.1	83.0	80.3	87.9	92.8
10K	80.2	81.7	86.4	81.4	80.8	81.2	82.4	78.9	87.9	93.1
63	99.9	99.9	105.4	99.9	100.6	102.0	102.0	100.2	106.2	115.2
125	104.2	102.3	107.9	102.8	103.1	104.1	104.8	101.1	107.7	117.1
250	102.9	102.7	109.5	103.5	104.0	104.3	103.7	100.3	107.6	115.8
500	96.9	97.8	104.3	98.6	98.4	99.1	99.5	96.5	104.6	111.9
1K	99.2	99.5	104.4	99.1	98.7	99.2	98.8	95.7	103.9	107.6
2K	93.4	95.7	100.9	95.1	95.1	96.2	95.4	92.4	102.7	104.0
4K	88.4	91.1	95.4	90.4	90.3	90.7	90.6	87.5	94.3	99.1
8K	84.9	87.5	91.4	86.7	86.6	86.7	87.1	84.1	92.5	97.2
LP-8	108.6	108.2	114.1	108.5	108.8	109.6	109.6	106.5	113.7	121.7
SIL	93.7	95.4	100.2	94.9	94.7	95.4	94.9	91.9	101.0	103.6
DUBA	102.5	103.3	108.6	103.2	103.1	103.7	103.4	100.2	108.9	113.8
PNDB	115.2	116.6	121.7	116.2	116.3	117.2	116.7	113.7	122.5	127.5

*STOP 0

Subtract 6.0 dB from all values of F3

Add 5.0 dB to all values of F8

YF-12 INLET NOISE SUPPRESSION
 11145 DEC 07, 1979 TEST 935A
 YF-12 INLET NOISE SUPPRESSION
 RUN 163
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6600 RPM

RUN	116	117	118	119	120	121	122	123
FREQ (Hz)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	107.5	144.5	128.8	135.4	129.2	136.6	120.5	118.1
63	109.4	145.7	130.7	137.3	130.5	137.9	122.1	120.5
80	110.1	146.7	131.9	139.2	132.7	137.2	123.2	122.2
100	114.1	147.8	136.4	140.9	134.6	141.3	124.8	124.1
125	116.9	148.9	135.9	142.3	135.2	143.6	127.0	126.4
160	125.6	150.7	135.5	144.9	137.4	142.0	128.5	128.9
200	127.8	153.3	139.5	146.7	139.6	144.9	129.4	130.1
250	131.7	157.5	144.6	146.7	141.2	144.5	132.4	132.1
315	129.7	159.8	143.8	145.8	142.2	141.5	134.7	133.8
400	124.1	160.8	147.0	144.6	143.0	142.1	135.2	133.0
500	118.8	158.3	149.1	143.1	142.8	142.1	141.9	133.5
630	115.3	153.6	149.0	142.7	144.5	143.5	144.0	137.2
800	122.2	149.7	148.5	144.0	149.1	143.7	143.1	140.2
1K	122.6	147.7	143.5	144.2	144.1	142.4	139.7	137.9
1.25K	119.4	147.4	142.1	143.6	142.3	143.3	138.4	136.7
1.6K	116.2	144.5	142.2	142.1	141.5	142.2	140.7	134.7
2K	116.4	143.5	142.3	141.4	143.1	142.4	141.5	136.7
2.5K	115.3	143.3	141.7	141.1	142.3	142.3	142.9	137.2
3.15K	114.4	143.0	141.1	141.0	141.8	142.5	145.7	139.1
4K	114.4	142.3	140.7	141.1	141.2	143.1	147.5	141.6
5K	114.9	141.8	140.1	141.0	140.5	143.7	145.2	139.7
6.3K	115.4	141.9	139.7	140.1	139.5	143.2	144.7	138.9
8K	115.2	141.9	139.3	139.5	138.4	141.4	144.2	138.5
10K	114.6	141.7	139.0	139.1	137.5	140.4	143.1	137.8
63	113.9	150.5	135.4	142.3	135.8	142.0	126.9	125.3
125	126.4	154.1	140.7	147.8	140.7	147.2	131.8	131.7
250	134.8	162.4	147.2	151.2	145.9	148.7	132.4	137.0
500	125.6	163.2	153.2	148.3	148.3	147.4	146.4	139.7
1K	126.4	153.2	150.4	148.7	151.0	147.9	145.7	143.3
2K	120.7	148.6	146.8	146.3	147.1	147.1	146.6	141.1
4K	119.4	147.2	145.4	145.8	146.0	147.9	151.0	145.0
8K	119.8	146.4	144.1	144.4	143.3	146.8	148.8	143.2
LP-8	136.6	166.6	147.0	156.6	155.6	156.2	155.3	150.1
SIL	122.2	149.6	147.5	146.9	148.0	147.7	147.7	143.1
OUBA	131.4	162.0	155.4	154.0	154.6	154.5	155.3	150.0
PNDB	144.8	174.9	147.6	167.8	167.3	168.7	169.3	164.1
STOP	0							

YF-12 INLET NOISE SUPPRESSION
 11151 JUN 05, '80 TEST 11117
 YF-12 INLET NOISE SUPPRESSION
 RUN 175
 SPIKE AFT
 BYPASS DOORS OPEN
 5600 RPM

RUN	27	28	29	30	31	32	33	34
FREQ (Hz)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K18 O. DEG
50	118.3	132.7	119.2	124.2	129.6	144.7	123.2	122.7
63	120.3	134.3	121.1	125.9	132.0	145.3	124.7	123.5
80	121.4	135.5	122.0	127.4	132.1	146.3	125.9	123.8
100	122.3	136.5	123.3	129.4	132.9	147.3	127.8	125.0
125	125.8	137.6	123.6	131.1	135.0	148.2	128.7	126.6
160	125.6	138.4	124.5	134.2	135.8	148.5	129.7	128.0
200	130.1	140.1	127.5	137.9	137.2	149.7	130.9	130.4
250	132.6	142.3	130.4	140.0	138.5	150.5	133.8	133.0
315	133.8	146.0	133.5	139.3	139.9	151.5	136.1	133.4
400	133.2	147.4	138.5	139.2	141.2	153.0	138.4	134.1
500	128.9	144.6	142.7	137.9	142.2	152.6	143.4	133.8
630	127.1	139.6	143.1	136.1	144.1	151.6	145.7	135.7
800	126.4	133.3	139.1	135.9	147.7	151.3	143.0	135.4
1K	126.7	131.6	134.7	138.0	143.1	150.3	139.4	132.7
1.25K	126.3	133.6	135.6	138.8	142.8	149.6	139.0	132.1
1.6K	125.7	130.2	137.4	137.7	143.4	148.6	140.4	133.4
2K	126.9	129.5	136.7	136.8	145.3	147.4	140.4	135.2
2.5K	129.1	131.1	139.3	138.2	147.0	147.3	144.2	137.8
3.15K	129.1	132.1	139.3	137.8	147.3	147.3	149.0	143.1
4K	127.6	130.9	137.2	137.0	145.8	146.9	147.2	141.5
5K	126.4	129.8	135.7	135.8	143.8	146.6	145.9	139.8
6.3K	125.3	129.6	134.8	135.1	142.3	146.2	145.9	140.2
8K	124.3	128.9	133.6	134.2	141.0	145.1	145.2	139.9
10K	123.6	127.5	132.4	133.6	139.7	144.2	144.7	139.6
63	125.0	139.1	125.7	130.8	136.2	150.2	129.5	128.1
125	129.6	142.3	128.6	136.8	139.4	152.8	133.6	131.4
250	137.2	148.3	135.9	143.9	143.5	155.4	138.9	137.2
500	135.3	143.7	146.7	142.7	147.5	157.2	148.2	139.4
1K	131.3	137.7	141.7	142.5	149.9	155.2	145.6	138.5
2K	132.2	135.1	142.7	142.4	150.3	152.6	146.9	140.6
4K	132.6	135.8	142.4	141.7	150.5	151.7	152.3	146.4
8K	129.2	133.5	138.5	139.1	145.9	150.0	150.1	144.7
LP-8	141.9	153.0	150.4	150.3	156.5	162.9	156.4	150.3
SIL	132.0	136.2	142.3	142.2	150.2	153.2	148.3	141.8
ODBA	139.4	148.3	149.6	148.9	156.4	160.5	156.4	150.2
PNOB	153.9	161.6	162.9	162.8	170.2	174.0	170.6	164.7
STOP 0								

YF-12 INLET NOISE SUPPRESSION
 11158 JUN 05, '80 TEST 11117
 YF-12 INLET NOISE SUPPRESSION
 RUN 185
 SPIKE AFT
 BYPASS DB08S CLOSED
 5000 RPM

RUN	38	39	40	41	42	43	44	45
FREQ (HZ)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	120.1	135.3	124.5	130.3	126.0	124.1	119.8	125.0
63	122.5	136.5	126.9	131.7	127.4	126.3	121.2	125.8
80	123.9	138.4	127.7	133.4	127.9	127.3	122.6	125.8
100	125.3	139.6	129.3	134.8	128.8	128.8	124.4	126.1
125	127.5	141.2	130.8	136.9	130.1	131.0	126.3	126.9
160	131.0	142.5	131.5	138.5	131.5	132.1	128.3	128.4
200	132.8	144.7	132.9	140.9	132.9	132.7	130.0	130.3
250	133.6	147.8	135.1	142.9	134.9	132.9	131.4	131.4
315	132.6	150.8	136.1	141.9	134.0	131.9	133.0	131.0
400	131.1	151.9	138.8	141.2	134.6	131.6	135.0	130.5
500	128.2	149.0	141.0	140.5	135.1	130.9	139.0	129.8
630	125.2	144.2	143.1	140.8	136.6	129.9	141.4	130.7
800	125.3	139.1	141.1	142.0	140.1	129.8	138.6	131.8
1K	125.5	137.2	138.7	144.0	136.2	129.0	133.7	128.6
1.25K	126.1	137.7	140.4	144.6	134.5	129.0	133.5	127.6
1.6K	128.6	135.5	142.8	143.7	137.6	129.8	135.7	130.0
2K	129.8	134.9	143.0	143.8	140.1	130.3	137.2	132.7
2.5K	133.5	134.9	147.0	143.7	145.6	134.6	145.3	140.8
3.15K	133.1	135.5	147.4	144.2	146.0	136.3	147.5	142.6
4K	130.4	134.1	145.2	143.5	140.9	130.9	142.0	136.4
5K	129.3	133.5	143.4	142.7	139.4	130.6	141.0	135.6
6.3K	128.8	133.7	142.7	142.1	139.7	131.8	142.3	137.7
8K	127.9	133.3	142.1	142.2	138.7	130.7	141.4	136.9
10K	127.2	132.4	141.1	142.0	137.9	129.8	141.1	137.1
63	127.2	141.7	131.3	136.7	131.9	130.9	126.1	130.1
125	133.4	146.1	135.4	141.8	135.0	135.6	131.4	132.0
250	137.8	153.1	139.7	146.8	138.8	137.3	136.4	135.7
500	133.6	154.2	144.1	145.4	140.3	135.6	144.1	135.1
1K	130.4	142.9	144.9	148.4	142.4	134.1	140.7	134.8
2K	135.9	139.9	149.5	148.5	147.2	136.9	146.3	141.8
4K	136.0	139.2	150.4	148.3	147.8	138.2	149.3	144.2
8K	132.8	138.0	146.8	146.9	143.6	135.8	146.4	142.0
LP#8	143.4	157.8	155.2	155.6	152.8	145.0	153.3	148.4
SIL	134.1	140.7	148.3	148.4	145.8	136.4	145.4	140.1
ODBA	141.7	152.8	155.4	154.9	152.7	143.6	153.5	148.5
PNDB	156.6	166.0	169.8	168.7	167.1	159.0	168.0	163.3
*STOP# 0								

YF-12 INLET NOISE SUPPRESSION
 12114 JUN 05 '80 TEST 11117
 YF-12 INLET NOISE SUPPRESSION
 RUN 188
 SPIKE FORWARD
 BYPASS DOORS OPEN
 4200 RPM

RUN	60	61	62	63	64	65	66	67
FREQ (Hz)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	102.8	134.7	120.7	126.7	122.0	132.5	119.3	128.0
63	103.3	135.6	122.0	127.1	122.6	133.3	120.8	127.9
80	104.5	136.1	123.9	127.9	124.1	134.5	121.2	128.1
100	107.3	136.8	125.4	128.4	124.7	135.0	122.5	127.9
125	111.4	137.0	126.5	129.4	125.9	136.1	123.7	127.9
150	112.8	137.1	126.5	130.3	126.3	137.1	124.4	128.5
200	116.3	137.6	127.7	132.4	127.4	138.5	125.5	129.7
250	121.7	138.5	128.7	134.6	128.0	138.6	127.1	130.5
315	122.7	140.8	129.9	132.8	127.1	137.1	129.2	130.3
400	122.5	141.5	132.1	129.3	126.4	136.1	131.7	129.9
500	118.0	137.7	132.4	125.6	128.4	134.7	133.6	128.9
630	115.2	132.7	131.1	123.9	125.0	133.4	135.2	129.1
800	115.5	127.2	126.5	124.7	125.4	132.1	133.2	131.0
1K	116.8	124.9	122.6	127.2	127.4	130.4	128.6	128.1
1.25K	119.0	126.4	123.4	126.4	123.4	129.2	129.8	127.4
1.6K	120.8	125.5	126.3	127.3	127.3	128.1	131.2	129.6
2K	127.7	129.5	131.9	133.3	136.1	129.1	136.3	135.8
2.5K	133.2	135.3	138.5	139.7	141.6	134.0	146.1	142.5
3.15K	125.9	129.3	131.1	131.0	131.7	127.5	136.9	135.8
4K	126.6	129.5	130.9	130.9	131.9	126.1	136.0	135.3
5K	128.8	131.9	133.1	133.5	133.8	127.9	140.0	138.0
6.3K	128.1	131.5	132.4	133.0	133.0	127.7	138.3	138.5
8K	128.4	132.6	133.1	134.0	133.6	128.2	139.6	141.6
10K	126.2	130.6	131.4	132.7	131.8	127.1	139.3	140.8
63	108.4	140.3	127.2	132.0	127.8	138.2	125.1	132.8
125	115.8	141.7	130.9	134.2	130.4	141.0	128.4	132.9
250	125.8	144.0	133.7	138.1	132.3	142.9	132.3	134.9
500	124.4	143.4	136.7	131.4	130.4	139.6	138.5	134.1
1K	122.1	131.1	129.3	131.0	132.1	135.5	135.7	133.9
2K	134.5	136.7	139.5	140.8	142.8	136.0	146.6	143.5
4K	132.1	135.2	136.6	136.8	137.3	132.0	142.8	141.3
8K	132.4	136.4	137.1	138.0	137.6	132.5	143.9	145.3
LP-8	138.5	149.3	144.5	145.6	145.6	147.7	150.1	149.1
SIL	129.5	134.3	135.1	136.2	137.4	134.5	141.7	139.6
OUSA	136.7	144.5	144.0	144.7	145.9	142.8	150.4	148.8
PHOB	152.9	159.4	159.0	160.0	160.6	158.0	164.9	163.0
STOP 0								

YF-12 INLET NOISE SUPPRESSION
 12135 JUN 05, '80 TEST 11117
 YF-12 INLET NOISE SUPPRESSION
 RUN 201
 SPIKE MIDWAYD
 BYPASS DOORS OPEN
 5000 RPM

RUN	83	84	85	86	87	88	89	90
FREQ (Hz)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K10 O. DEG	TR 8 K12 O. DEG
50	116.2	129.6	115.0	124.0	118.2	133.6	120.0	128.9
63	118.0	131.1	116.5	124.7	119.6	135.0	121.5	129.2
80	117.9	132.3	117.9	125.7	121.0	135.8	123.2	129.1
100	118.5	133.7	119.5	127.0	123.0	136.5	124.5	129.1
125	122.8	134.7	121.6	129.4	125.7	137.7	125.4	129.4
160	123.5	135.9	122.3	131.1	126.5	138.2	126.6	130.0
200	125.9	137.6	124.0	134.3	129.5	139.4	128.4	131.1
250	129.5	140.0	126.5	137.6	130.5	140.5	131.0	133.3
315	130.6	143.2	128.9	136.7	129.8	140.3	133.1	132.8
400	129.2	144.6	132.4	134.1	130.0	139.9	135.3	132.8
500	125.7	141.4	134.5	131.1	130.8	139.0	139.0	132.3
630	123.6	136.8	134.9	130.2	131.3	137.8	141.4	133.2
800	122.4	131.0	130.4	129.6	135.1	136.4	138.7	134.6
1K	123.6	128.4	124.1	132.8	132.3	134.7	133.6	130.9
1.25K	124.8	129.7	125.5	131.8	127.7	133.6	133.5	129.7
1.6K	125.4	128.6	128.5	130.5	131.6	132.4	134.9	131.8
2K	128.2	128.4	129.3	132.5	135.0	131.9	136.4	134.4
2.5K	136.4	134.7	137.6	138.4	140.5	133.4	144.3	141.4
3.15K	136.2	135.2	137.2	138.7	140.3	134.7	145.8	143.3
4K	130.9	131.1	131.7	133.5	135.5	130.7	141.4	138.7
5K	130.8	131.0	131.8	133.5	134.6	129.9	140.6	138.1
6.3K	130.5	131.5	131.7	133.7	134.5	130.7	141.9	140.1
8K	128.8	130.7	130.2	132.7	133.1	129.8	141.0	139.7
10K	127.2	129.6	129.3	132.1	132.1	128.5	140.7	140.0
63	122.2	135.9	121.4	129.7	124.5	139.7	126.5	133.8
125	126.9	139.7	126.0	134.2	130.1	142.3	130.4	134.3
250	133.8	145.7	131.7	141.2	134.7	144.9	136.0	137.2
500	131.8	146.7	138.8	136.9	135.4	143.8	144.0	137.8
1K	128.5	134.6	132.3	136.4	137.4	139.8	140.8	137.0
2K	137.3	136.4	138.7	140.0	142.0	137.4	145.4	142.5
4K	138.2	137.7	139.1	140.8	142.4	137.1	148.1	145.5
8K	133.8	135.4	135.3	137.6	138.1	134.4	146.0	144.7
LP-8	142.9	150.6	144.8	147.3	147.2	150.1	152.6	150.2
SIL	134.6	136.2	136.7	139.0	140.6	138.1	144.7	141.7
ODBA	142.8	146.5	144.6	146.2	147.4	146.1	152.7	150.0
PNDB	157.4	160.4	158.8	161.2	161.7	160.5	167.0	164.7
STOP 0								

YF-12 INLET NOISE SUPPRESSION
 12:47 JUN 05, '80 TEST 11117
 YF-12 INLET NOISE SUPPRESSION
 RUN 210
 SPIKE AFT
 BYPASS DOORS OPEN
 5000 RPM

RUN	105	106	107	108	109	110	111	112
FREQ (Hz)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	116.3	129.5	116.7	122.9	129.7	140.3	122.6	130.0
63	117.7	130.7	117.6	124.3	131.0	141.0	124.2	130.3
80	118.2	131.7	118.3	124.9	131.7	142.0	125.8	130.3
100	118.8	132.3	119.1	126.3	132.7	143.0	127.2	130.1
125	120.7	133.0	119.3	128.6	133.8	143.9	128.3	130.5
160	121.8	133.4	120.2	131.6	134.6	144.0	129.2	131.5
200	127.3	134.5	123.6	135.2	136.1	145.2	130.8	133.1
250	130.1	136.8	127.8	138.9	137.5	146.2	132.8	135.0
315	132.3	140.4	131.8	138.8	137.4	147.0	135.5	135.4
400	131.8	142.7	135.6	137.2	137.8	147.3	137.4	135.2
500	127.0	140.2	139.8	134.4	138.6	147.4	141.0	134.4
630	124.2	135.5	140.3	133.3	139.0	148.7	143.5	135.8
800	129.5	131.3	138.8	136.7	144.1	145.7	141.3	137.1
1K	123.7	126.2	131.0	134.1	140.4	144.4	136.3	133.7
1.25K	122.3	127.5	130.4	134.0	138.3	143.3	135.8	132.8
1.6K	122.7	126.4	133.8	134.1	139.7	142.2	137.1	134.1
2K	125.1	126.9	134.3	134.1	141.9	141.2	138.1	136.8
2.5K	129.4	131.9	139.3	138.2	146.7	141.4	144.3	142.5
3.15K	129.2	132.2	139.7	138.1	146.1	141.7	146.6	145.1
4K	125.9	129.3	135.6	135.5	142.6	139.7	143.9	141.1
5K	125.1	127.9	134.5	134.4	140.8	139.0	142.5	140.1
6.3K	123.8	127.7	133.8	133.7	139.9	138.9	143.2	141.6
8K	123.1	126.9	132.7	132.9	138.6	137.9	142.7	141.1
10K	122.0	125.4	131.6	132.5	137.2	136.8	142.3	141.2
63	122.2	135.5	122.4	128.9	135.7	145.9	129.2	135.0
125	125.4	137.7	124.3	134.2	138.5	148.4	133.1	135.5
250	135.1	142.7	133.7	142.7	141.8	151.0	138.2	139.4
500	133.6	145.1	143.8	140.0	143.3	151.9	146.1	139.9
1K	131.2	133.7	140.0	139.9	144.4	149.4	143.3	139.7
2K	131.4	134.0	141.3	140.7	148.6	146.4	145.8	144.0
4K	131.9	134.9	142.0	141.1	148.5	145.0	149.5	147.5
8K	127.8	131.5	137.5	137.8	143.5	142.7	147.5	146.1
LP-4	140.4	148.4	148.6	148.6	154.1	157.6	154.1	151.9
5IL	131.5	144.2	141.1	140.4	147.8	146.9	146.2	143.7
8D8A	138.4	144.4	148.1	147.3	154.1	154.6	154.0	151.8
PNDB	152.9	157.9	161.9	161.7	168.3	168.2	168.3	166.6

*STOP 0

(THIS PAGE LEFT INTENTIONALLY BLANK)

APPENDIX C

TABULATIONS OF ACOUSTIC DATA FOR BELLMOUTH INLET/J58 ENGINE TESTS

(THIS PAGE LEFT INTENTIONALLY BLANK)

APPENDIX C

TABULATIONS OF ACOUSTIC DATA FOR BELLMOUTH INLET/J58 ENGINE TESTS

This appendix contains one-third octave band SPL tabulations of the acoustic data taken from the J58 engine/bellmouth inlet tests. Table C-1 shows the run numbers and corresponding engine speeds.

(THIS PAGE LEFT INTENTIONALLY BLANK)

TABLE C-1. RUN NUMBERS FOR BELLMOUTH INLET/J58 ENGINE
ACOUSTIC TESTS AT BEALE AFB

RUN NO.	ENGINE SPEED (RPM)
1	3640
2	4000
3	4200
4	4400
5	4500
6	4600
7	4800
8	5000
9	5200
10	5400
11	5500
12	5600
13	5800
14	6000
15	6100
16	6200

RUN NO.	ENGINE SPEED (RPM)
17	6300
18	6400
19	6500
20	6600
21	6700

YF-12 BEAL TEST 3/26/80
 16:28 JUN 25, '80 TEST 11274
 YF-12 BEAL TEST 3/26/80
 BARE ENGINE WITH BELLSOUTH
 RUN 1
 3640 RPM

RUN	15	16	17	18	19	20	21
FREQ (HZ)	TR 1 B1 40° DEG	TR 2 B2 0° DEG	TR 3 B3 0° DEG	TR 4 B4 0° DEG	TR 5 B5 20° DEG	TR 6 B6 40° DEG	TR 8 B8 0° DEG
50	98.0	99.6	83.0	80.9	78.7	87.3	91.4
63	95.5	94.9	78.0	74.8	80.7	86.2	90
80	93.8	93.2	80.3	77.5	79.4	80.1	86.9
100	92.0	93.9	81.9	79.3	79.9	79.8	87.8
125	97.5	93.7	84.2	81.5	81.9	80.4	90.5
160	99.7	96.0	86.2	83.8	82.7	83.1	91.0
200	98.2	97.6	85.3	83.5	84.6	85.1	89.0
250	100.3	97.7	85.2	82.9	85.1	85.1	92.2
315	102.7	100.9	87.3	84.6	88.8	87.5	94.0
400	107.2	104.8	91.7	89.3	92.1	91.5	98.4
500	112.7	110.7	96.0	93.7	96.6	95.8	104.3
630	113.5	111.1	96.4	92.9	98.4	96.9	103.8
800	114.2	110.6	97.0	94.0	98.1	97.2	104.5
1K	114.1	111.8	97.3	94.1	98.0	97.9	104.4
1.25K	115.1	113.4	99.3	96.5	99.2	98.8	106.5
1.6K	116.1	114.0	98.9	95.8	99.9	99.7	106.5
2K	126.8	120.8	103.8	100.4	105.6	105.0	110.9
2.5K	116.8	114.1	99.6	96.2	99.8	99.6	107.2
3.15K	114.3	114.6	100.9	97.9	99.4	99.5	108.8
4K	115.6	114.4	102.0	97.4	102.0	101.3	110.1
5K	113.8	113.4	99.7	96.4	101.5	99.5	109.7
6.3K	116.5	113.9	99.0	94.5	100.9	102.2	109.3
8K	113.7	113.0	97.8	93.7	98.9	99.6	108.3
10K	109.7	110.2	94.1	89.6	95.9	93.8	106.5
63	100.9	101.5	85.7	83.2	84.5	90.3	90.0
125	102.2	99.4	89.2	86.7	86.4	86.1	94.8
250	105.6	103.8	90.8	88.5	91.3	90.8	96.9
500	116.6	114.4	99.9	97.1	101.2	100.1	107.7
1K	119.3	116.9	102.7	99.8	103.3	102.8	110.0
2K	127.6	122.3	106.1	102.8	107.4	107.0	113.4
4K	119.4	118.9	105.7	102.0	105.9	105.0	114.3
8K	118.9	117.4	102.2	97.9	103.8	104.5	112.9
LP-8	129.4	125.9	111.0	107.6	111.9	111.5	119.3
SIL	122.1	119.4	104.9	101.5	105.5	104.9	112.6
ODBA	130.2	126.4	111.4	108.0	112.3	111.9	119.6
PNDB	143.4	139.5	124.6	121.0	125.2	124.9	132.8

YF-12 BFAL TEST 3/26/80
 16128 JUN 25, '80 TEST 11274
 YF-12 BEALE TEST 3/26/80
 BARE ENGINE WITH BELLMOUTH
 RUN 2
 4000 RPM

RUN	22	23	24	25	26	27	28
FREQ (MHz)	TR 1 B1 40° DEG	TR 2 B2 0° DEG	TR 3 B3 0° DEG	TR 4 B4 0° DEG	TR 5 B5 20° DEG	TR 6 B6 40° DEG	TR 8 B8 0° DEG
50	97.4	99.3	82.9	80.8	78.5	87.4	91.3
63	98.6	95.3	80.1	77.3	84.7	88.6	88.4
80	94.9	94.4	81.4	78.5	80.6	81.5	87.8
100	93.6	95.1	82.6	80.0	80.3	80.6	88.4
125	98.1	95.2	84.8	82.2	82.4	81.9	91.3
160	100.6	97.3	87.1	84.7	83.6	84.8	92.2
200	98.7	99.2	86.7	84.8	85.1	86.4	90.2
250	101.3	98.2	85.9	83.5	85.5	85.7	92.7
315	103.5	101.8	87.9	85.2	89.2	88.1	94.7
400	108.3	105.7	92.5	90.2	92.5	92.0	99.4
500	113.4	111.6	96.7	94.3	97.3	96.3	105.1
630	114.7	112.4	97.6	94.2	99.3	98.0	105.3
800	115.5	112.1	98.1	95.2	99.1	98.2	105.9
1K	115.5	113.0	98.2	95.1	98.8	98.9	105.5
1.25K	116.4	114.3	99.7	96.9	99.7	99.7	106.9
1.6K	117.0	114.9	99.8	96.8	100.4	100.4	107.7
2K	122.6	119.2	102.3	98.2	101.5	103.6	109.8
2.5K	128.4	123.6	105.6	100.5	104.1	107.7	112.9
3.15K	115.5	114.8	101.0	98.1	100.0	100.7	109.5
4K	115.0	114.3	100.8	96.8	100.9	101.2	110.2
5K	116.5	115.9	101.3	97.6	101.9	102.1	111.4
6.3K	115.0	114.2	100.5	96.2	101.3	102.2	110.6
8K	114.8	113.9	97.9	94.4	98.7	101.4	108.6
10K	112.7	112.4	95.2	91.1	96.1	97.3	108.3
63	102.0	101.6	86.4	83.9	86.8	91.5	94.2
125	103.1	100.8	90.0	87.5	87.1	87.6	95.7
250	106.4	104.8	91.7	89.3	91.8	91.6	97.7
500	117.7	115.5	100.9	98.0	102.0	100.9	108.7
1K	120.6	118.0	103.5	100.6	104.0	103.8	110.9
2K	129.7	125.3	108.0	103.5	107.1	109.7	115.4
4K	120.5	119.8	105.8	102.3	105.8	106.2	115.2
8K	119.1	118.3	103.2	99.1	104.0	105.5	114.1
LP-8	131.1	127.9	112.0	108.3	112.0	113.2	120.6
SIL	123.6	121.1	105.8	102.1	105.6	106.5	113.8
00BA	132.0	128.5	112.5	108.6	112.3	113.7	120.9
PNDB	145.9	142.5	126.2	122.1	125.6	127.7	134.3
STOP 0							

YF-12 BEAL TEST 3/26/80
 16:36 JUN 25, '80 TEST 11274
 YF-12 BEALE TEST 3/26/80
 BARE ENGINE WITH BELLMOUTH
 RUN 3
 4200 RPM

RUN	29	30	31	32	33	34	35
FREQ (HZ)	TR 1 B1 40. DEG	TR 2 B2 0. DEG	TR 3 B3 0. DEG	TR 4 B4 0. DEG	TR 5 B5 20. DEG	TR 6 B6 40. DEG	TR 8 B8 0. DEG
50	98.3	99.4	82.6	80.5	78.0	87.2	90.9
63	97.3	94.7	80.4	77.3	82.6	86.0	88.0
80	96.8	96.3	83.0	80.2	82.8	81.8	89.6
100	94.1	95.8	83.4	80.6	81.1	81.3	89.2
125	98.9	95.9	85.5	82.7	82.6	82.4	92.1
160	101.6	98.8	88.0	85.4	84.5	85.2	93.1
200	100.4	100.7	87.3	85.3	86.2	87.1	91.1
250	102.7	99.5	86.4	83.9	86.1	86.9	93.3
315	104.6	102.6	88.3	85.6	89.8	88.8	95.3
400	108.7	106.7	92.8	90.3	93.2	92.3	99.6
500	114.0	112.1	97.1	94.5	97.7	96.9	105.3
630	115.5	113.1	98.3	94.7	100.1	98.6	105.9
800	116.4	113.0	98.8	95.5	99.9	99.0	106.6
1K	116.5	113.9	98.8	95.4	99.6	99.6	106.4
1.25K	117.2	114.9	99.6	96.4	100.2	100.2	107.1
1.6K	117.8	115.8	100.2	96.8	100.7	101.0	108.0
2K	119.0	116.7	101.2	97.5	101.1	102.3	109.1
2.5K	127.7	121.6	105.1	101.7	105.4	110.8	114.2
3.15K	116.0	114.7	100.7	97.7	100.2	100.6	108.9
4K	114.9	114.3	100.7	96.5	101.4	100.8	110.0
5K	115.3	115.8	102.0	97.5	102.5	102.4	112.3
6.3K	114.0	113.8	100.4	95.5	100.5	100.1	111.1
8K	115.0	114.3	99.5	95.5	99.5	100.9	109.6
10K	113.3	112.6	95.2	90.2	96.4	95.4	107.7
63	102.3	102.0	86.9	84.3	86.4	90.3	94.4
125	104.0	101.8	90.8	88.1	87.7	88.0	96.5
250	107.7	105.9	92.2	89.8	92.5	92.5	98.3
500	118.3	116.2	101.4	98.4	102.6	101.4	109.2
1K	121.5	118.8	103.9	100.6	104.7	104.4	111.5
2K	128.6	123.6	107.5	104.0	107.8	111.8	116.1
4K	120.2	119.7	106.0	102.0	106.2	106.1	115.4
8K	118.9	118.4	103.7	99.1	103.9	104.1	114.4
LP-8	130.5	127.1	112.0	108.4	112.5	114.2	121.0
SIL	123.4	120.7	105.8	102.2	106.2	107.4	114.3
DBA	131.3	127.6	112.4	108.8	112.8	114.9	121.4
PNDB	145.4	141.5	126.1	122.6	126.4	129.2	135.0

YF-12 BEAL TEST 3/26/80
 16136 JUN 25, '80 TEST 11274
 YF-12 BEALE TEST 3/26/80
 BARE ENGINE WITH BELLMOUTH
 RUN 4
 4400 RPM

RUN	36	37	38	39	40	41	42
FREQ (HZ)	TR 1 B1 40: DEG	TR 2 B2 0: DEG	TR 3 B3 0: DEG	TR 4 B4 0: DEG	TR 5 B5 20: DEG	TR 6 B6 40: DEG	TR 8 B8 0: DEG
50	97.5	99.2	82.8	80.6	78.7	87.3	91.1
63	96.1	94.1	79.4	76.0	81.1	86.1	87.5
80	97.8	96.5	84.3	81.1	81.5	84.4	90.3
100	94.5	96.0	84.0	81.3	81.3	82.2	89.9
125	99.2	95.8	85.9	83.1	83.1	82.8	92.4
160	102.3	98.7	88.4	86.1	84.9	85.7	93.4
200	100.5	100.5	87.8	85.8	86.5	87.8	91.7
250	103.2	99.4	87.0	84.6	86.8	87.2	93.7
315	105.4	102.3	88.8	86.4	90.5	89.2	95.7
400	109.1	106.7	93.3	91.0	94.0	92.8	100.1
500	114.2	112.1	97.4	95.0	98.2	97.2	105.6
630	115.5	113.7	98.8	95.4	100.8	99.5	106.5
800	116.4	113.5	99.4	96.4	100.5	99.8	107.2
1K	116.9	114.5	99.6	96.4	100.3	100.5	107.0
1.25K	117.6	115.2	99.9	97.1	100.8	101.1	107.6
1.6K	118.1	116.1	100.8	97.7	101.3	101.8	108.5
2K	118.6	116.8	101.5	98.2	101.8	102.3	109.4
2.5K	123.3	119.1	105.3	102.5	108.4	107.4	113.1
3.15K	116.2	114.8	100.9	98.4	100.7	101.5	109.3
4K	115.2	114.3	100.7	97.3	101.3	101.6	110.4
5K	122.7	117.6	101.8	99.1	103.1	104.3	111.9
6.3K	114.7	114.2	100.8	96.5	101.3	101.3	109.9
8K	116.0	113.7	98.7	95.9	101.4	102.0	109.4
10K	114.4	112.4	94.9	91.2	96.8	96.8	107.4
53	102.0	101.9	87.4	84.5	85.4	90.9	94.7
125	104.5	101.8	91.2	88.7	88.1	88.6	96.9
250	108.2	105.7	92.7	90.4	93.1	92.9	98.8
500	118.5	116.5	101.8	99.0	103.3	102.0	109.6
1K	121.8	119.2	104.4	101.4	105.3	105.3	112.0
2K	125.5	122.3	107.8	104.8	109.9	109.4	115.6
4K	124.2	120.6	105.9	103.1	106.6	107.5	115.4
8K	119.8	118.3	103.5	99.8	105.1	105.3	113.8
LP-8	129.7	126.9	112.3	109.2	113.7	113.6	120.9
SIL	123.8	120.7	106.0	103.1	107.3	107.4	114.4
QDBA	130.2	127.2	112.6	109.6	114.1	114.1	121.2
PND8	143.6	140.5	126.3	123.4	128.2	127.9	134.6

*STOP 0

YF-12 BEAL TEST 3/26/80
 16:44 JUN 25, '80 TEST 11274
 YF-12 BEALE TEST 3/26/80
 BARE ENGINE WITH BELLMOUTH
 RUN 5
 4500 RPM

RUN	43	44	45	46	47	48	49
FREQ (HZ)	TR 1 B1 40. DEG	TR 2 B2 0. DEG	TR 3 B3 0. DEG	TR 4 B4 0. DEG	TR 5 B5 20. DEG	TR 6 B6 40. DEG	TR 8 B8 0. DEG
50	97.8	99.5	83.6	80.4	79.4	87.7	91.3
63	95.5	93.7	78.6	75.5	80.9	86.1	87.2
80	96.2	95.3	82.8	79.9	81.6	83.1	89.2
100	94.5	95.9	83.9	81.2	81.3	81.9	89.7
125	99.7	96.1	85.9	83.3	83.0	82.9	92.1
160	102.8	99.1	88.7	86.4	85.1	86.5	93.4
200	100.2	100.8	88.3	86.4	86.5	88.6	92.0
250	102.1	99.6	87.3	84.9	86.7	87.6	94.1
315	104.7	102.6	89.2	86.5	90.2	89.1	95.8
400	109.1	106.8	93.7	91.4	93.6	92.7	100.3
500	114.4	112.3	97.6	95.3	98.2	97.0	105.6
630	116.0	113.9	99.2	95.9	100.7	99.3	106.7
800	116.6	113.7	99.9	96.9	100.7	99.6	107.5
1K	117.2	114.7	100.1	96.9	100.5	100.6	107.4
1.25K	118.0	115.5	100.5	97.5	101.1	101.0	107.7
1.6K	118.3	116.8	102.0	98.9	101.7	101.6	109.0
2K	118.8	117.2	101.9	98.6	102.0	102.3	109.7
2.5K	128.6	120.2	104.6	101.6	107.0	106.0	113.7
3.15K	117.5	115.2	101.2	98.6	101.4	101.7	109.5
4K	116.0	114.6	101.0	97.4	102.1	101.7	110.2
5K	119.2	115.5	102.7	99.3	103.0	102.6	113.7
6.3K	114.7	114.3	101.3	96.6	101.3	101.2	111.2
8K	116.4	114.6	100.2	96.6	102.0	102.4	109.7
10K	113.9	112.9	95.9	91.4	97.2	97.5	107.9
63	101.4	101.7	86.9	83.8	85.5	90.8	94.3
125	104.9	102.1	91.4	88.9	88.2	89.0	96.8
250	107.5	105.9	93.1	90.7	92.9	93.2	99.0
500	118.8	116.6	102.1	99.4	103.2	101.9	109.7
1K	122.1	119.5	105.0	101.9	105.6	105.2	112.3
2K	129.4	123.1	107.8	104.7	109.1	108.5	116.1
4K	122.5	119.9	106.5	103.3	107.0	106.8	116.3
8K	119.9	118.8	104.5	100.2	105.4	105.6	114.6
LP-8	131.4	127.2	112.7	109.4	113.5	113.2	121.5
SIL	124.7	120.8	106.4	103.3	107.2	106.8	114.9
ODBA	132.2	127.5	113.0	109.7	113.9	113.5	121.8
PNOB	146.4	141.1	126.3	123.2	127.6	127.1	135.1

YF-12 BEAL TEST 3/26/80

16144 JUN 25, 1980 TEST 11274

YF-12 BEALE TEST 3/26/80

BARE ENGINE WITH BELLMOUTH

RUN 6

4600 RPM

RUN	50	51	52	53	54	55	56
FREQ (HZ)	TR 1 B1 40. DEG	TR 2 B2 0. DEG	TR 3 B3 0. DEG	TR 4 B4 0. DEG	TR 5 B5 20. DEG	TR 6 B6 40. DEG	TR 8 B8 0. DEG
50	97.8	99.9	84.1	81.1	79.9	88.1	91.9
63	95.6	93.5	78.4	75.2	80.6	85.8	87.2
80	96.3	96.1	82.8	79.8	82.5	83.0	89.6
100	95.3	96.3	84.3	81.6	81.5	82.6	90.0
125	99.6	96.3	86.1	83.5	83.1	83.7	92.2
160	102.0	99.3	88.7	86.5	85.4	86.9	93.6
200	99.7	100.8	88.4	86.5	86.7	88.8	92.3
250	101.7	99.9	87.5	85.2	87.2	88.2	94.3
315	104.5	102.9	89.3	86.6	90.5	89.7	96.1
400	109.0	106.9	93.8	91.5	93.9	93.4	100.7
500	114.4	112.4	97.8	95.5	98.6	97.6	105.8
630	116.2	113.9	99.6	96.2	101.0	100.6	107.0
800	116.6	113.9	100.2	97.3	100.9	100.9	107.9
1K	117.4	115.1	100.5	97.4	101.1	101.6	107.8
1.25K	118.0	115.7	100.7	97.8	101.8	101.9	108.0
1.6K	118.3	117.0	102.5	99.5	102.4	102.9	109.4
2K	118.7	117.4	102.3	99.0	102.8	103.6	110.0
2.5K	126.3	119.2	106.0	102.6	110.5	109.6	112.4
3.15K	117.5	115.4	101.9	99.2	102.7	103.8	109.8
4K	115.5	114.9	102.0	97.9	103.1	103.9	110.9
5K	119.5	118.3	103.1	98.8	104.5	105.1	112.9
6.3K	115.4	114.9	102.2	97.0	102.4	103.5	111.4
8K	115.8	114.9	101.3	96.8	102.5	104.3	109.6
10K	114.5	113.4	98.5	91.6	98.9	100.2	108.6
63	101.4	102.0	87.1	84.1	85.9	90.9	94.8
125	104.5	102.3	91.5	89.1	88.4	89.5	97.0
250	107.2	106.2	93.3	90.9	93.3	93.7	99.3
500	118.8	116.7	102.4	99.6	103.5	102.9	110.0
1K	122.1	119.7	105.2	102.3	106.0	106.3	112.7
2K	127.6	122.7	108.8	105.4	111.7	111.2	115.6
4K	122.6	121.2	107.1	103.5	108.3	109.1	116.1
8K	120.0	119.2	105.7	100.5	106.4	107.8	114.8
LP#8	130.4	127.4	113.4	109.9	115.1	115.3	121.4
SIL	124.1	121.2	107.0	103.7	108.7	108.9	114.8
ODBA	131.0	127.7	113.7	110.2	115.6	115.8	121.7
PNDB	145.1	140.9	127.3	123.8	129.8	129.7	134.8
STOP 0							

YF-12 BEAL TEST 3/26/80
 16152 JUN 25, 1980 TEST 11274
 YF-12 BEALE TEST 3/26/80
 BARE ENGINE WITH BELLMOUTH
 RUN 7
 4800 RPM

RUN	57	58	59	60	61	62	63
FREQ (HZ)	TR 1 B1 40. DEG	TR 2 B2 0. DEG	TR 3 B3 0. DEG	TR 4 B4 0. DEG	TR 5 B5 20. DEG	TR 6 B6 40. DEG	TR 8 B8 0. DEG
50	98.4	99.8	82.9	81.2	79.8	87.7	91.6
63	96.6	94.2	78.9	75.7	81.1	86.3	87.6
80	96.6	96.9	82.8	80.0	83.3	84.6	89.1
100	96.2	96.8	84.6	81.8	82.2	83.4	90.4
125	100.2	96.8	86.3	83.6	83.7	83.6	92.6
160	102.3	99.7	89.3	86.9	85.6	86.6	94.0
200	100.5	101.5	89.2	87.2	87.3	89.2	92.8
250	103.1	100.8	88.4	86.2	88.1	88.9	95.1
315	105.1	103.4	89.8	87.1	91.1	90.2	96.6
400	109.5	107.6	94.2	91.9	94.5	93.5	101.0
500	114.7	112.6	98.1	95.8	98.7	97.6	106.0
630	116.7	114.5	99.8	96.5	101.5	100.5	107.4
800	117.4	114.6	100.7	97.6	101.6	100.8	108.3
1K	118.1	115.7	101.0	97.7	101.7	101.9	108.4
1.25K	118.7	116.2	101.2	98.2	102.2	102.0	108.4
1.6K	119.0	117.6	102.8	99.8	102.8	102.9	109.6
2K	119.2	117.7	102.6	99.1	103.1	103.2	110.2
2.5K	122.3	120.8	106.0	103.4	106.9	108.4	116.5
3.15K	119.0	117.6	103.8	101.2	103.7	104.7	113.0
4K	116.3	115.1	101.9	97.9	102.5	102.9	110.7
5K	116.8	115.6	101.8	98.2	103.7	103.0	113.9
6.3K	116.7	115.4	102.6	98.2	103.8	103.4	114.2
8K	115.9	114.7	100.8	97.3	101.6	103.3	111.3
10K	114.0	113.4	97.0	91.9	98.4	98.8	107.8
63	102.0	102.3	86.7	84.3	86.4	91.2	94.5
125	105.0	102.8	91.9	89.4	88.9	89.5	97.3
250	108.0	106.8	93.9	91.6	93.9	94.3	99.8
500	119.3	117.2	102.7	99.9	103.9	102.8	110.3
1K	122.9	120.3	105.7	102.6	106.6	106.4	113.1
2K	125.2	123.8	108.8	106.0	109.5	110.4	118.1
4K	122.3	121.0	107.4	104.1	108.1	108.4	117.5
8K	120.4	119.3	105.5	101.3	106.6	107.1	116.6
LP-8	129.6	127.9	113.6	110.4	114.4	114.7	123.0
SIL	123.5	121.7	107.3	104.2	108.1	108.4	116.2
808A	129.9	128.3	113.9	110.8	114.7	115.2	123.4
PNDB	143.3	141.8	127.4	124.4	128.2	128.9	137.0

YF-12 BRAL TEST 3/26/80
 16:52 JUN 25, '80 TEST 11274
 YF-12 BEALE TEST 3/26/80
 BARE ENGINE WITH BELLMOUTH
 RUN 8
 5000 RPM

RUN	64	65	66	67	68	69	70
FREQ (HZ)	TR 1 B1 40° DEG	TR 2 B2 0° DEG	TR 3 B3 0° DEG	TR 4 B4 0° DEG	TR 5 B5 20° DEG	TR 6 B6 40° DEG	TR 8 B8 0° DEG
50	98.8	100.1	83.3	81.7	79.6	87.8	91.6
63	96.2	94.5	79.2	75.8	81.3	86.6	87.6
80	96.9	96.3	84.7	81.5	82.4	83.5	90.8
100	96.5	97.0	85.1	82.4	82.5	83.3	90.8
125	100.6	97.1	86.8	84.3	84.2	84.3	93.0
160	102.8	99.9	89.5	87.2	86.2	87.6	94.4
200	100.7	101.7	89.5	87.6	87.9	89.8	92.8
250	103.5	101.0	88.7	86.4	88.2	89.4	95.5
315	105.2	103.6	90.1	87.4	91.2	90.6	96.6
400	109.5	107.6	94.6	92.3	94.7	93.7	101.3
500	114.5	112.8	98.4	96.1	99.1	97.9	105.9
630	117.1	114.7	100.4	97.0	101.6	101.0	107.6
800	117.4	114.7	101.0	97.8	101.8	101.1	108.6
1K	118.2	116.1	101.4	98.2	101.9	102.1	108.7
1.25K	118.9	116.5	101.4	98.4	102.5	102.4	108.7
1.6K	119.1	118.1	103.2	100.2	103.1	103.1	110.0
2K	119.4	118.2	102.8	99.4	103.2	103.6	110.4
2.5K	125.0	121.5	105.0	103.1	106.1	108.0	115.6
3.15K	123.8	120.3	104.7	102.9	105.2	107.1	114.9
4K	116.1	115.3	101.8	97.8	102.7	103.3	110.8
5K	115.9	115.8	101.5	97.7	102.5	103.3	111.0
6.3K	116.9	116.9	103.1	98.5	104.3	104.8	113.2
8K	115.8	114.7	100.9	96.9	101.9	103.6	111.4
10K	113.5	112.8	96.4	91.7	98.4	99.1	107.5
125	102.2	102.4	87.7	85.2	86.0	91.1	95.1
160	105.5	103.0	92.3	89.8	89.3	90.2	97.7
200	108.3	107.0	94.3	91.9	94.1	94.7	100.0
250	119.5	117.4	103.1	100.3	104.1	103.2	110.4
315	123.0	120.6	106.0	102.9	106.8	106.7	113.4
400	126.9	124.4	108.5	106.0	109.1	110.2	117.6
500	125.0	122.5	107.7	104.9	108.4	109.7	117.4
630	120.4	119.9	105.7	101.3	107.0	107.9	116.0
LP-8	130.9	128.6	113.7	110.7	114.5	115.2	122.7
SIL	125.0	122.5	107.4	104.6	108.1	108.9	116.1
OOBA	131.5	129.1	114.0	111.1	114.8	115.7	123.2
PNOB	144.9	142.4	127.4	124.7	128.0	129.1	136.7
STOP 0							

YF-12 BEAL TEST 3/26/80
 16:59 JUN 25 1980 TEST 11274
 YF-12 BEALE TEST 3/26/80
 BARE ENGINE WITH BELLMOUTH
 RUN 9
 5200 RPM

RUN	71	72	73	74	75	76	77
FREQ (HZ)	TR 1 B1 40. DEG	TR 2 B2 0. DEG	TR 3 B3 0. DEG	TR 4 B4 0. DEG	TR 5 B5 20. DEG	TR 6 B6 40. DEG	TR 8 B8 0. DEG
50	98.5	100.0	83.7	80.8	80.3	88.5	91.4
63	97.1	94.2	79.6	76.4	81.6	86.9	87.6
80	97.5	97.5	84.8	81.6	82.5	83.6	90.9
100	97.0	97.5	85.5	82.7	82.8	84.1	91.2
125	101.0	97.5	87.2	84.5	84.3	84.9	93.3
160	102.8	100.6	90.1	87.9	86.4	88.0	95.2
200	100.9	102.2	90.1	88.2	88.1	90.3	93.7
250	103.3	101.7	89.5	87.4	88.8	90.4	96.2
315	105.5	104.0	90.7	87.9	91.7	91.5	97.4
400	109.8	108.2	95.0	92.8	95.0	94.2	101.8
500	114.8	113.0	98.7	96.8	99.5	98.2	106.6
630	117.4	115.1	100.6	97.7	102.1	101.5	107.9
800	118.0	115.5	101.6	98.7	102.3	101.8	109.1
1K	118.9	116.7	102.0	99.0	102.5	102.7	109.3
1.25K	119.4	117.1	102.0	99.3	103.4	103.1	109.2
1.6K	119.5	118.1	103.4	100.6	104.5	104.1	111.4
2K	119.4	118.4	103.5	100.5	103.7	103.8	111.0
2.5K	120.4	120.0	104.2	102.0	106.0	106.0	112.2
3.15K	123.4	124.8	108.2	107.3	110.3	110.7	117.0
4K	116.7	115.8	102.2	98.7	103.3	103.7	111.4
5K	118.0	115.5	101.4	98.0	102.3	102.8	110.0
6.3K	118.4	117.0	104.0	99.6	105.6	106.4	113.7
8K	115.0	114.6	100.8	97.6	101.9	102.5	110.5
10K	114.6	113.7	98.2	94.0	99.5	99.9	108.9
63	102.5	102.6	88.0	84.9	86.3	91.5	95.0
125	105.6	103.6	92.8	90.4	89.5	90.8	98.3
250	108.4	107.5	94.9	92.6	94.6	95.5	100.8
500	119.7	117.7	103.5	101.0	104.5	103.7	110.9
1K	123.6	121.2	106.6	103.8	107.5	107.4	114.0
2K	124.6	123.7	108.5	105.9	109.6	109.5	116.3
4K	124.8	125.8	109.8	108.3	111.8	112.1	118.7
8K	121.1	120.1	106.4	102.4	107.9	108.5	116.3
LP=8	130.2	129.6	114.5	112.1	115.9	116.1	123.0
SIL	124.3	123.6	108.3	106.0	109.6	109.6	116.3
ODBA	130.8	130.2	114.9	112.7	116.4	116.6	123.4
PNOB	144.5	144.6	129.2	127.3	130.7	131.0	137.7

*STOP 0

YF-12 BEAL TEST 3/26/80
 07:21 JUN 25, '80 TEST 11274
 YF-12 BEALE TEST 3/26/80
 BARE ENGINE WITH BELLMOUTH
 RUN 10
 5400 RPM

MUN	78	79	80	81	82	83	84
TR 1 B1 (M4) 40° DEG	TR 2 B2 0° DEG	TR 3 B3 0° DEG	TR 4 B4 0° DEG	TR 5 B5 20° DEG	TR 6 B6 40° DEG	TR 8 B8 0° DEG	
90	97.1	100.1	84.2	81.4	81.7	88.7	91.9
83	95.3	93.4	81.0	78.0	82.2	86.7	87.8
90	96.7	96.5	84.8	81.3	82.3	84.0	91.9
100	95.4	97.1	86.0	83.2	83.0	84.0	92.4
123	100.0	96.3	87.0	84.4	84.5	84.8	93.1
190	100.9	98.9	90.4	88.2	84.6	87.9	95.2
200	99.3	101.5	89.5	87.8	87.0	89.6	92.0
230	101.5	100.5	88.6	86.5	86.8	90.1	95.0
225	101.1	100.0	87.3	84.6	88.6	89.6	93.2
240	102.7	100.5	86.5	84.5	87.7	87.7	95.3
250	101.9	101.2	88.3	85.4	88.4	88.5	95.5
340	105.6	102.3	89.8	87.0	89.7	89.4	96.6
350	103.7	102.3	89.1	86.2	90.0	89.6	96.3
36	111.2	105.3	91.4	88.2	92.5	93.4	98.8
1004	112.1	107.4	94.3	91.6	98.0	96.5	101.2
1004	112.4	113.0	99.5	96.7	102.4	99.2	108.0
24	111.4	111.7	99.3	96.9	96.3	97.0	104.6
1034	115.3	112.6	99.1	96.9	102.6	101.5	107.2
1034	120.8	119.7	106.5	104.7	106.8	107.3	116.3
44	111.6	110.4	98.4	95.0	98.1	100.4	107.2
54	112.4	110.4	97.6	93.8	97.3	99.8	106.3
1034	118.8	115.0	103.0	97.1	102.5	106.3	112.3
84	112.8	112.3	99.7	96.0	99.8	101.3	108.6
204	113.6	113.5	98.5	93.8	99.2	100.7	110.0
78	101.2	102.3	88.4	85.2	86.9	91.6	95.7
43	104.1	102.3	93.0	90.6	88.9	90.7	98.5
24	105.5	105.5	93.3	91.3	92.3	94.5	98.4
1034	108.5	106.2	93.2	90.5	93.4	93.4	100.6
14	115.0	110.2	96.9	94.0	99.6	98.8	104.0
44	118.1	117.2	104.1	101.6	106.0	104.4	111.6
44	121.6	120.6	107.6	105.5	107.8	108.7	117.1
44	120.7	118.5	105.6	100.6	105.5	108.3	115.3
1003	125.8	124.1	111.2	108.3	111.8	112.7	120.2
1014	118.3	116.0	102.8	100.4	104.5	103.9	110.9
1034	126.2	124.6	111.6	108.9	112.3	113.0	120.7
1034	140.6	139.3	126.3	123.8	126.6	127.4	135.3

YF-12 BEAL TEST 3/26/80

07:21 JUN 25, 80 TEST 11274

YF-12 BEALE TEST 3/26/80
BARE ENGINE WITH BELLMOUTH

RUN 11
5500 RPM

RUN	86		85		87		88		89		90		91	
	FREQ (Hz)	TR 1 B1 40° DEG	TR 2 B2 0° DEG	TR 3 B3 0° DEG	TR 4 B4 0° DEG	TR 5 B5 20° DEG	TR 6 B6 40° DEG	TR 7 B7 40° DEG	TR 8 B8 0° DEG	TR 9 B9 40° DEG	TR 10 B10 0° DEG	TR 11 B11 40° DEG	TR 12 B12 0° DEG	
50		97.3	100.5	84.4	81.7	82.4	89.3	92.6						
63		95.7	94.5	81.5	79.9	82.3	87.6	88.6						
80		96.9	96.5	84.5	80.8	82.6	84.4	91.2						
100		96.0	97.3	85.9	83.0	83.6	84.6	92.2						
125		100.2	96.3	86.9	83.9	84.8	84.8	93.0						
160		101.0	99.1	90.2	87.7	85.3	88.2	95.0						
200		99.7	101.9	90.0	87.6	87.5	90.3	92.7						
250		102.4	101.1	89.1	86.9	87.6	90.5	95.4						
315		102.0	100.6	87.8	84.4	89.3	90.1	93.8						
400		103.7	101.7	87.4	84.3	88.7	89.9	96.4						
500		103.0	102.0	89.0	85.8	88.7	89.3	96.0						
630		104.2	106.5	92.5	89.6	90.7	90.9	98.0						
800		104.5	102.5	89.1	86.5	90.4	90.1	96.5						
1K		113.0	106.9	92.1	89.1	94.4	94.9	100.7						
1.25K		113.7	108.8	94.5	92.3	98.8	98.2	102.5						
1.6K		111.9	113.6	100.9	97.6	104.4	99.4	109.5						
2K		110.9	112.2	100.1	97.7	97.3	97.0	105.6						
2.5K		115.9	112.6	99.4	97.3	103.7	102.4	107.4						
3.15K		124.8	122.6	108.0	109.1	108.0	108.9	118.9						
4K		112.8	111.5	99.1	96.4	99.7	101.8	108.6						
5K		112.1	111.3	98.4	94.9	98.9	100.8	107.0						
6.3K		118.7	115.6	105.8	99.8	104.5	107.6	111.6						
8K		113.2	112.3	99.6	96.1	100.5	102.0	108.3						
10K		113.9	113.7	98.7	94.6	100.7	100.9	109.1						
63		101.4	102.7	88.4	85.6	87.2	92.3	95.8						
125		104.3	102.5	92.8	90.2	89.4	91.0	98.4						
250		106.3	106.0	93.8	91.3	93.0	95.1	98.9						
500		108.4	108.8	95.0	91.9	94.3	94.9	101.7						
1K		116.7	111.6	97.2	94.7	100.6	100.3	105.3						
2K		118.3	117.6	104.9	102.3	107.5	104.9	112.6						
4K		125.3	123.2	109.0	109.5	109.1	110.2	119.5						
8K		120.8	118.8	107.4	102.1	107.1	109.3	114.7						
LP-8		127.7	125.7	112.5	111.1	113.1	113.8	121.6						
SIL		120.1	117.5	103.7	102.2	105.7	105.1	112.5						
DBA		128.4	126.4	113.0	112.0	113.7	114.2	122.3						
PNDB		143.1	141.2	127.5	126.8	127.8	128.6	137.0						

YF-12 BEAL TEST 3/26/80
 08:04 JUN 25, 1980 TEST 11274
 YF-12 BEALE TEST 3/26/80
 BARE ENGINE WITH BELLMOUTH
 RUN 12
 5600 RPM

RUN	92	93	94	95	96	97	98
FREQ (HZ)	TR 1 B1 40° DEG	TR 2 B2 0° DEG	TR 3 B3 0° DEG	TR 4 B4 0° DEG	TR 5 B5 20° DEG	TR 6 B6 40° DEG	TR 8 B8 0° DEG
50	96.7	100.0	83.8	81.7	83.1	88.9	92.3
63	95.8	94.9	81.4	78.9	83.2	87.9	88.5
80	96.8	96.6	83.9	81.0	82.8	84.4	91.1
100	96.5	97.1	85.3	82.9	83.8	84.8	92.2
125	100.9	96.6	86.5	84.3	84.9	85.0	93.5
160	101.9	99.2	89.8	87.9	85.1	88.0	95.4
200	100.0	102.0	89.3	87.8	87.3	89.9	92.6
250	102.4	100.9	88.7	86.9	87.5	90.1	95.4
315	101.9	100.4	87.2	84.5	89.1	90.1	93.7
400	103.4	102.1	86.9	84.9	89.2	89.9	96.6
500	103.0	102.3	88.2	85.3	88.4	88.7	95.9
630	104.3	106.9	92.5	90.0	90.9	90.2	98.2
800	104.1	102.3	88.4	86.4	90.5	89.9	96.3
1K	113.3	106.8	91.2	88.7	93.9	95.0	100.2
1.25K	113.9	109.5	93.8	92.1	98.3	97.9	102.6
1.6K	111.5	113.2	99.8	96.9	103.3	98.4	109.8
2K	110.3	112.0	98.9	96.4	96.1	95.5	105.6
2.5K	115.4	112.2	97.6	95.6	102.0	101.5	107.2
3.15K	125.3	120.9	107.1	106.7	105.6	109.4	120.1
4K	112.9	111.6	97.3	94.4	97.9	100.5	108.3
5K	111.7	111.4	96.1	92.9	97.2	99.1	106.8
6.3K	117.6	115.9	103.2	97.7	102.4	105.5	111.5
8K	112.8	112.3	97.8	95.1	99.0	100.4	108.2
10K	113.7	113.5	96.2	93.4	98.6	99.1	108.8
63	101.2	102.4	87.9	85.5	87.8	92.2	95.7
125	105.1	102.6	92.4	90.4	89.4	91.0	98.6
250	106.3	105.9	93.2	91.4	92.8	94.8	98.8
500	108.4	109.1	94.7	92.2	94.4	94.4	101.8
1K	116.9	111.9	96.5	94.5	100.1	100.1	105.2
2K	117.7	117.3	103.6	101.1	106.2	103.9	112.7
4K	125.8	121.8	107.9	107.1	108.8	110.3	120.5
8K	120.0	118.9	105.0	100.6	105.1	107.4	114.5
LP-8	127.8	125.0	111.0	109.2	111.4	113.1	122.2
SIL	120.1	117.0	102.6	100.9	104.4	104.8	112.8
DBA	128.5	125.4	111.8	109.9	111.9	113.6	123.0
PND8	143.3	140.2	126.3	124.9	126.0	128.4	137.7

YF-12 BEAL TEST 3/26/80
 08:04 JUN 25, '80 TEST 11274
 YF-12 BEALE TEST 3/26/80
 BARE ENGINE WITH BELLMOUTH
 RUN 13
 5800 RPM

RUN	99	100	101	102	103	104	106
FREQ (HZ)	TR 1 B1 40° DEG	TR 2 B2 0° DEG	TR 3 B3 0° DEG	TR 4 B4 0° DEG	TR 5 B5 20° DEG	TR 6 B6 40° DEG	TR 8 B8 0° DEG
50	96.6	99.7	83.8	82.3	82.9	88.8	•0
63	96.5	96.2	82.1	80.8	83.1	89.3	•0
80	96.9	96.8	84.2	81.3	83.3	85.2	•0
100	96.8	97.2	85.0	82.9	84.5	85.3	•0
125	101.4	97.8	87.3	85.4	85.5	86.3	•0
160	102.0	100.7	91.4	89.4	86.4	89.6	96.2
200	99.7	102.7	89.9	88.2	87.7	90.6	•0
250	103.4	102.0	89.3	87.6	88.3	91.2	95.9
315	104.0	101.7	88.3	85.5	89.9	91.3	95.0
400	102.8	100.8	86.6	84.2	87.8	88.2	94.7
500	104.2	102.5	88.3	86.0	89.0	89.6	95.7
630	110.3	105.5	92.9	90.5	91.5	95.2	99.2
800	105.7	104.0	90.2	87.8	91.9	91.9	97.2
1K	115.4	107.9	93.2	90.1	93.7	95.9	101.3
1.25K	116.2	110.3	95.9	94.1	99.5	101.7	105.0
1.6K	115.1	116.2	103.4	100.4	105.6	101.8	113.9
2K	112.7	116.6	102.9	100.2	97.8	98.0	108.7
2.5K	116.5	114.8	99.7	97.5	103.9	102.8	109.1
3.15K	129.3	125.5	113.6	113.8	109.1	112.3	125.4
4K	117.6	115.5	103.0	100.9	101.2	103.5	112.6
5K	114.1	112.8	99.6	96.5	100.4	101.1	109.5
6.3K	120.7	117.4	106.7	101.9	103.7	105.9	113.0
8K	115.1	113.8	100.5	97.4	100.8	102.1	109.8
10K	114.6	114.1	100.3	95.7	100.1	99.8	110.5
63	101.4	102.6	88.2	86.3	87.9	92.9	95.7
125	105.4	103.6	93.6	91.5	90.3	92.2	98.6
250	107.5	106.9	94.0	92.0	93.5	95.8	98.8
500	111.8	108.1	94.9	92.6	94.5	96.9	101.8
1K	119.1	112.9	98.4	96.2	101.0	103.1	107.0
2K	119.8	120.7	107.0	104.3	108.3	106.1	116.0
4K	129.8	126.1	114.1	114.1	110.3	113.1	125.7
8K	122.5	120.2	108.4	103.9	106.6	108.1	116.1
LP-8	131.2	128.2	115.9	115.0	113.8	115.4	126.6
SIL	122.9	119.9	106.5	104.9	106.5	107.4	116.2
098A	132.1	129.0	116.7	116.0	114.4	116.0	127.6
PNDB	146.7	143.7	131.3	130.4	128.7	130.8	141.6
*STOP 0							

YF-12 BEAL TEST 3/26/80

08:13 JUN 25, 1980 TEST 11274

YF-12 BEALE TEST 3/26/80

BARE ENGINE WITH BELLMOUTH

RUN 14

6000 RPM

RUN	107	108	109	110	111	112	113
FREQ (HZ)	TR 1 B1 40 DEG	TR 2 B2 0 DEG	TR 3 B3 0 DEG	TR 4 B4 0 DEG	TR 5 B5 20 DEG	TR 6 B6 40 DEG	TR 8 B8 0 DEG
50	97.8	100.3	85.9	84.5	85.3	89.4	93.9
63	98.4	96.4	84.2	81.4	85.8	90.3	91.3
80	98.6	98.9	86.1	83.4	85.7	87.3	93.0
100	97.4	98.7	86.8	84.7	86.6	87.2	92.7
125	102.1	99.2	89.2	87.1	87.7	88.0	96.0
160	102.5	101.5	92.3	90.5	88.1	90.6	97.4
200	100.9	103.5	91.3	89.9	89.6	91.9	95.1
250	103.8	103.3	90.7	89.0	89.8	93.0	97.5
315	106.1	103.1	90.0	87.4	92.3	93.2	96.8
400	103.1	101.9	88.3	86.0	90.0	90.3	96.4
500	104.4	104.0	89.5	87.1	91.1	92.0	97.7
630	112.7	110.9	94.7	93.6	97.0	100.0	100.6
800	110.3	107.3	93.2	91.6	94.3	96.8	98.5
1K	118.6	111.0	94.7	92.2	95.6	97.3	103.0
1.25K	118.3	114.8	97.5	96.1	99.7	103.6	104.7
1.6K	116.7	114.7	102.4	99.7	107.9	103.8	114.1
2K	114.4	115.9	104.4	101.7	101.1	101.7	112.1
2.5K	117.6	113.7	101.5	98.9	104.2	102.8	109.8
3.15K	127.9	124.0	113.8	113.7	108.4	114.1	119.8
4K	119.6	117.0	106.1	104.9	104.0	106.7	112.6
5K	115.6	114.6	100.8	98.6	102.4	102.1	110.2
6.3K	119.6	117.2	104.6	101.8	105.1	106.6	117.0
8K	116.6	115.6	102.2	100.2	102.9	104.1	113.0
10K	115.0	114.8	99.0	95.9	101.4	101.0	111.1
125	103.0	103.6	90.3	88.0	90.4	93.9	97.6
250	106.0	104.8	94.8	92.9	92.3	93.6	100.6
500	108.9	108.1	95.5	93.7	95.5	97.5	101.3
1K	113.7	112.2	96.6	95.0	98.6	101.0	103.4
2K	121.8	116.8	100.3	98.5	101.9	105.2	107.5
4K	121.2	119.6	107.7	105.0	110.1	107.6	117.1
8K	128.7	125.2	114.6	114.4	110.5	115.0	121.0
8K	122.3	120.8	107.3	104.7	108.2	109.2	119.2
LP=8	130.9	127.9	116.3	115.4	114.9	117.1	124.3
SIL	123.9	120.5	107.5	106.0	107.5	109.3	115.2
OSBA	131.7	128.5	117.1	116.4	115.4	117.8	124.9
PNDB	146.3	143.2	131.8	131.0	129.3	132.7	139.1

YF-12 BEAL TEST 3/26/80
 08:13 JUN 25 1980 TEST 11274
 YF-12 BEALE TEST 3/26/80
 BARE ENGINE WITH BELLMOUTH
 RUN 15
 6100 RPM

RUN	114	115	116	117	118	119	120
FREQ (Hz)	TR 1 B1 40° DEG	TR 2 B2 0° DEG	TR 3 B3 0° DEG	TR 4 B4 0° DEG	TR 5 B5 20° DEG	TR 6 B6 40° DEG	TR 8 B8 0° DEG
50	98.2	100.5	86.8	85.5	86.9	90.2	94.5
63	99.6	97.0	85.9	83.4	86.9	91.8	92.8
80	100.2	100.2	88.1	85.4	87.0	89.2	94.9
100	98.7	100.6	88.2	86.2	87.8	88.4	94.4
125	103.3	100.3	90.8	88.6	89.1	89.2	97.5
160	103.8	102.5	93.4	91.5	89.5	91.8	98.9
200	101.9	104.8	93.0	91.6	91.0	93.2	96.8
250	104.8	104.2	92.0	90.3	91.1	93.9	98.4
319	108.3	104.6	91.6	88.9	93.2	94.8	98.0
400	104.1	102.9	89.7	87.5	91.4	91.0	98.3
500	106.1	104.2	91.1	88.7	91.8	92.0	99.0
630	111.8	108.8	96.6	94.1	96.2	97.3	103.9
800	114.1	108.4	97.8	95.4	96.0	98.6	104.4
1K	116.1	112.4	95.6	92.5	97.4	101.9	102.6
1.25K	119.3	115.2	99.5	95.7	99.7	104.8	106.9
1.5K	121.3	116.6	102.5	99.3	108.9	104.4	113.7
2K	115.6	116.8	104.5	100.9	102.4	101.6	112.4
2.5K	116.3	114.4	102.5	99.6	102.6	103.6	111.9
3.5K	124.3	122.3	111.8	109.1	112.0	112.0	121.6
4K	121.5	118.9	108.4	105.6	108.6	108.4	117.9
5K	118.1	114.8	102.0	98.4	103.0	102.9	111.7
6.3K	118.6	116.6	103.1	98.5	103.6	105.4	113.3
8K	117.7	116.6	103.0	99.3	103.2	105.1	112.7
10K	114.3	114.6	99.5	95.1	100.8	100.7	110.5
15K	104.2	104.3	91.8	89.6	91.7	95.3	98.9
25K	107.2	106.1	96.0	94.1	93.6	94.8	102.1
50K	110.5	109.3	97.0	95.2	96.7	98.8	102.6
100K	113.4	110.8	98.3	95.9	98.5	99.1	105.9
1K	121.8	117.6	102.7	99.5	102.8	107.2	109.8
2K	123.3	120.8	108.0	104.8	110.5	108.1	117.5
3K	126.5	124.4	113.7	111.0	114.0	113.9	123.4
4K	122.0	120.8	106.9	102.7	107.5	108.9	117.1
LP-8	130.1	127.8	115.9	112.9	116.6	116.7	125.4
3IL	123.9	121.0	108.2	105.1	109.1	109.8	116.9
9.3A	130.6	128.3	116.5	113.8	117.3	117.2	126.1
10B	144.6	142.7	131.1	128.2	131.5	131.8	140.5

YF-12 BEAL TEST 3/26/80
 08:25 JUN 25 '80 TEST 11274
 YF-12 BEALE TEST 3/26/80
 BARE ENGINE WITH BELLMOUTH
 RUN 16
 6200 RPM

RUN	121	122	123	124	125	126	127
FREQ (HZ)	TR 1 B1 40° DEG	TR 2 B2 0° DEG	TR 3 B3 0° DEG	TR 4 B4 0° DEG	TR 5 B5 20° DEG	TR 6 B6 40° DEG	TR 8 B8 0° DEG
50	98.5	101.0	87.8	86.5	87.8	90.6	95.5
63	100.0	97.9	86.0	83.5	87.5	92.2	93.1
80	100.5	100.2	88.4	85.8	88.0	89.5	95.6
100	99.4	101.0	89.1	87.0	88.0	89.6	95.2
125	103.6	100.6	91.3	89.4	89.5	90.0	97.7
160	103.9	102.9	93.9	92.1	89.8	92.3	99.2
200	102.4	104.9	93.0	91.6	91.5	93.5	97.2
250	105.2	104.4	92.1	90.4	91.9	94.3	98.9
315	108.6	104.7	91.2	88.8	93.8	95.6	98.5
400	104.4	103.6	89.6	87.5	92.5	92.3	98.8
500	106.9	104.6	90.8	88.1	92.1	92.9	99.5
630	110.8	108.8	95.6	93.3	96.4	96.9	102.1
800	113.7	108.7	97.1	95.7	99.3	99.5	101.7
1K	113.9	112.7	94.7	92.6	97.6	100.0	104.2
1.25K	120.2	116.5	98.5	96.6	102.5	103.5	108.2
1.6K	120.3	116.1	101.2	98.6	109.5	105.7	112.2
2K	117.5	116.9	102.4	99.2	103.2	102.1	112.1
2.5K	116.9	116.1	101.3	97.9	101.8	102.1	111.1
3.15K	121.6	121.1	107.6	105.4	108.2	108.6	121.4
4K	120.9	119.7	107.0	104.6	106.9	107.1	120.2
5K	116.2	114.8	100.1	96.7	102.2	101.4	112.2
6.3K	116.6	116.5	100.6	96.2	101.9	102.2	112.4
8K	116.0	117.4	101.0	97.3	102.2	102.7	113.1
10K	113.2	114.1	97.0	93.7	100.2	98.4	110.6
63	104.5	104.6	92.3	90.2	92.6	95.7	99.7
125	107.5	106.4	96.6	94.8	93.9	95.6	102.4
250	110.9	109.4	96.9	95.2	97.3	99.3	103.0
500	112.9	111.0	97.6	95.2	98.9	99.4	105.1
1K	121.8	118.5	101.8	100.0	105.0	106.2	110.3
2K	123.3	121.1	106.4	103.4	111.0	108.4	116.6
4K	124.9	124.1	110.7	108.3	111.2	111.4	124.1
8K	120.3	121.0	104.6	100.7	106.3	106.2	116.9
LP-8	129.2	127.8	113.5	110.9	115.4	115.0	125.7
SIL	123.3	121.2	106.3	103.9	109.1	108.6	117.0
8DBA	129.7	128.3	114.0	111.4	116.0	115.4	126.5
PND8	143.2	142.3	128.3	125.8	129.4	129.6	140.5

YF-12 BEAL TEST 3/26/80
 08:25 JUN 25/80 TEST 11274
 YF-12 BEALE TEST 3/26/80
 BARE ENGINE WITH BELLMOUTH
 RUN 17
 6300 RPM

RUN	128	129	130	131	132	133	134
FREQ (HZ)	TR 1 B1 40° DEG	TR 2 B2 0° DEG	TR 3 B3 0° DEG	TR 4 B4 0° DEG	TR 5 B5 20° DEG	TR 6 B6 40° DEG	TR 8 B8 0° DEG
50	98.2	100.4	88.2	87.1	88.4	90.6	95.3
63	100.0	97.0	87.1	84.6	88.2	92.3	93.3
80	100.7	100.7	89.4	86.5	88.7	90.4	95.9
100	100.0	101.1	89.4	87.0	89.1	90.2	95.7
125	104.1	101.3	91.7	89.7	90.2	90.7	98.4
160	104.2	103.1	94.0	92.2	90.4	92.8	99.4
200	102.7	105.2	93.6	92.2	92.2	93.8	98.2
250	105.1	104.7	92.6	90.9	92.2	94.6	99.2
315	107.4	104.6	92.5	89.8	94.3	95.3	99.4
400	105.0	104.4	90.6	88.4	92.8	92.8	99.1
500	107.8	105.2	92.1	89.4	92.7	93.2	99.9
630	110.1	107.6	92.8	91.3	95.0	97.4	101.1
800	113.1	110.2	93.8	93.8	96.5	98.6	102.4
1K	118.7	113.5	98.1	94.9	99.6	103.6	108.1
1.25K	120.8	118.0	101.3	98.9	100.7	106.3	109.8
1.6K	120.2	116.7	102.6	100.3	109.6	106.0	112.7
2K	119.0	116.5	103.9	101.5	103.3	102.4	113.5
2.5K	117.0	115.6	103.3	100.1	101.0	103.0	112.0
3.15K	122.8	121.7	106.8	105.3	108.2	110.5	121.4
4K	123.6	122.9	108.2	106.5	109.3	111.4	122.8
5K	116.8	113.9	101.8	98.5	102.8	103.2	112.4
6.3K	116.8	115.7	102.5	97.9	102.4	103.5	112.4
8K	117.9	116.8	103.7	99.4	102.7	104.6	114.2
10K	113.4	113.9	98.4	94.5	99.7	99.9	110.8
125	104.5	104.4	93.1	91.0	93.2	95.9	99.8
250	107.9	105.7	96.9	94.9	94.7	96.2	102.9
500	110.2	109.6	97.7	95.9	97.8	99.4	103.7
1K	112.9	110.7	96.7	94.6	98.4	99.8	104.9
2K	123.2	119.8	103.5	101.2	104.0	108.6	112.5
4K	123.7	121.1	108.1	105.5	111.0	108.9	117.5
8K	128.7	125.8	111.1	109.3	112.3	114.4	125.4
LP-8	130.3	128.7	114.5	112.1	115.9	117.1	126.9
SIL	124.5	122.2	107.6	105.3	109.1	110.6	118.5
00BA	130.9	129.3	115.0	112.7	116.5	117.6	127.7
PADB	144.6	143.4	129.2	127.0	130.1	131.8	141.7
*STOP 0							

YF-12 BEAL TEST 3/26/80
 08:35 JUN 25 1980 TEST 11274
 YF-12 BEALE TEST 3/26/80
 BARE ENGINE WITH BELLMOUTH
 RUN 18
 6400 RPM

RUN	135	136	137	138	139	140	141
FREQ (HZ)	TR 1 B1 40. DEG	TR 2 B2 0. DEG	TR 3 B3 0. DEG	TR 4 B4 0. DEG	TR 5 B5 20. DEG	TR 6 B6 40. DEG	TR 8 B8 0. DEG
50	98.1	100.1	89.7	88.8	90.7	91.3	96.1
63	100.7	97.8	89.0	86.8	89.6	93.7	94.8
80	101.9	101.7	90.7	88.0	90.6	91.8	97.0
100	101.3	101.9	90.7	88.3	90.5	91.7	96.7
125	104.7	102.5	93.4	91.4	91.9	92.0	99.6
160	105.2	103.9	95.5	93.8	92.0	94.2	100.7
200	103.4	105.6	95.1	93.7	93.3	95.1	99.8
250	105.2	105.1	93.6	92.0	93.6	96.0	100.1
315	107.2	105.8	93.4	90.9	95.4	96.3	99.8
400	105.5	105.1	92.0	89.8	94.0	93.9	100.3
500	107.4	105.9	92.3	90.0	94.1	95.0	100.7
630	111.4	108.5	93.8	91.3	95.4	98.3	102.2
800	118.1	111.0	94.8	94.1	98.0	100.6	102.9
1K	123.9	112.1	98.0	93.8	100.0	100.2	107.5
1.25K	123.0	116.8	101.4	99.4	102.6	104.4	109.7
1.6K	121.7	118.1	103.3	100.7	111.7	106.5	111.5
2K	119.8	115.2	104.3	101.6	105.5	103.6	112.4
2.5K	118.7	116.0	103.2	100.6	101.8	103.3	112.0
3.15K	121.9	117.0	104.8	102.7	106.4	109.8	115.6
4K	126.0	120.4	109.0	106.6	110.1	113.6	120.3
5K	117.5	118.2	102.1	99.3	103.8	103.9	111.3
6.3K	116.7	115.3	102.2	98.1	103.1	103.9	111.3
8K	116.5	115.7	102.0	98.8	102.9	105.0	112.2
10K	113.0	112.9	98.7	94.6	100.3	100.2	109.6
125	105.3	104.9	94.6	92.7	95.1	97.1	100.8
150	108.8	107.6	98.4	96.5	96.3	97.6	104.1
200	110.3	110.3	98.9	97.1	98.9	100.6	104.7
250	113.6	111.5	97.6	95.2	99.3	100.9	105.9
1K	127.1	118.9	103.6	101.3	105.4	106.9	112.3
2K	125.0	121.4	108.4	105.8	113.0	109.5	116.8
3K	127.9	123.1	111.0	108.6	112.3	115.4	122.0
4K	120.5	119.6	106.0	102.3	107.0	108.2	115.9
LP-8	132.0	127.3	114.5	111.9	116.8	117.7	124.3
51L	126.6	121.1	107.7	105.2	110.2	110.6	117.0
328A	132.6	127.7	114.9	112.3	117.4	118.3	125.0
PNOB	146.2	141.8	129.6	127.0	130.9	133.0	139.7

YF-12 BEAL TEST 3/26/80
 08:35 JUN 25, 1980 TEST 11274
 YF-12 BEALE TEST 3/26/80
 BARE ENGINE WITH BELLMOUTH
 RUN 19
 6500 RPM

RUN	142	143	144	145	146	147	148
FREQ (Hz)	TR 1 B1 40° DEG	TR 2 B2 0° DEG	TR 3 B3 0° DEG	TR 4 B4 0° DEG	TR 5 B5 20° DEG	TR 6 B6 40° DEG	TR 8 B8 0° DEG
50	98.0	99.8	90.8	89.8	92.1	92.1	97.2
63	101.0	98.5	90.9	88.9	91.7	95.1	96.3
80	103.1	102.5	93.0	90.3	92.5	93.7	98.6
100	103.0	103.2	92.6	90.3	92.6	93.4	98.6
125	105.8	103.9	95.4	93.7	94.0	93.7	101.7
160	106.7	105.9	97.4	95.7	94.4	96.5	102.5
200	104.9	106.9	97.2	95.9	95.4	97.3	101.9
250	106.0	106.2	94.7	93.1	95.6	97.5	101.6
315	107.8	106.6	94.0	91.8	96.9	97.5	101.8
400	106.7	106.4	93.1	91.1	95.1	95.5	101.9
500	109.0	107.2	93.5	91.3	95.6	95.8	102.3
630	113.9	108.8	94.5	92.6	96.7	99.2	102.8
800	121.5	114.1	96.5	94.0	100.4	104.1	103.8
1K	119.9	113.2	96.6	95.1	98.4	105.8	105.2
1.25K	120.7	115.6	99.1	97.3	103.4	107.1	107.9
1.6K	120.5	117.1	102.8	101.7	111.2	107.4	112.4
2K	118.1	118.2	104.5	102.4	107.2	104.3	113.1
2.5K	119.2	115.1	103.7	100.9	103.5	103.8	110.8
3.15K	121.5	117.1	103.3	101.0	105.8	109.9	112.4
4K	124.6	119.5	108.0	104.8	109.6	113.8	118.2
5K	117.0	116.2	102.0	98.8	103.3	104.1	110.7
6.3K	116.5	115.1	101.6	97.3	102.9	104.4	110.5
8K	117.1	115.1	101.5	98.3	102.2	105.2	110.9
10K	112.9	112.4	98.1	93.4	99.7	100.3	108.7
12.5K	105.9	105.4	96.5	94.5	96.9	98.6	102.2
16K	110.2	109.2	100.3	98.5	98.5	99.5	106.0
20K	111.2	111.3	100.3	98.7	100.8	102.2	106.6
250	115.7	112.3	98.5	96.5	100.6	101.9	107.1
1K	125.5	119.2	102.3	100.5	106.0	110.6	110.8
2K	124.1	121.7	108.5	106.4	113.2	110.2	117.0
4K	126.8	122.6	110.0	107.0	111.8	115.6	119.8
8K	120.6	119.2	105.4	101.6	106.6	108.5	114.9
LP-8	131.1	127.3	114.1	111.5	116.8	118.5	123.1
SIL	125.5	121.2	107.0	104.6	110.3	112.1	115.8
905A	131.5	127.7	114.3	111.7	117.3	118.9	123.5
P10B	145.4	141.5	129.1	126.2	130.9	133.6	138.3

YF-12 BEAL TEST 3/26/80

08:45 JUN 25, '80 TEST 11274

YF-12 BEALE TEST 3/26/80

BARE ENGINE WITH BELLMOUTH

RUN-20

6600 RPM

RUN	149	150	151	152	153	154	155
FREQ (HZ)	TR 1 B1 40 DEG	TR 2 B2 0 DEG	TR 3 B3 0 DEG	TR 4 B4 0 DEG	TR 5 B5 20 DEG	TR 6 B6 40 DEG	TR 8 B8 0 DEG
50	99.1	100.3	92.2	91.8	94.7	93.8	98.4
63	102.0	99.4	93.4	91.4	93.8	96.6	98.1
80	104.3	104.1	95.2	92.6	95.3	95.4	100.0
100	104.9	104.5	94.6	92.3	94.7	96.2	100.3
125	107.6	106.0	97.6	95.9	96.6	96.1	103.7
180	108.8	107.9	99.6	97.9	96.4	98.3	104.7
200	107.5	109.4	99.7	98.4	98.0	99.7	104.6
250	107.9	107.8	96.2	94.6	98.2	99.7	103.5
315	109.2	107.4	95.3	93.3	99.0	99.1	103.7
400	108.4	108.0	94.9	92.9	97.2	97.0	103.4
500	110.8	109.0	95.0	92.8	97.4	97.5	103.9
630	114.6	111.2	96.9	93.5	97.7	99.8	104.9
800	119.1	118.9	96.8	94.6	99.9	102.4	104.9
1K	121.8	113.2	97.0	94.6	100.2	102.8	110.5
1.25K	122.2	116.5	99.8	97.3	103.7	107.6	110.0
1.6K	119.6	117.1	101.7	99.7	109.9	106.7	113.2
2K	118.5	118.1	103.0	100.5	105.7	104.6	112.0
2.5K	116.3	115.6	102.2	99.4	102.0	101.5	109.5
3.15K	120.3	117.2	102.0	99.8	105.2	105.9	112.1
4K	129.2	122.5	107.4	103.3	108.6	108.0	120.8
5K	117.1	115.8	100.8	97.4	102.2	102.2	109.9
6.3K	116.3	114.9	100.2	96.2	102.3	101.7	109.9
8K	115.8	114.2	99.7	96.7	101.4	101.6	110.2
10K	112.4	112.2	96.3	92.1	98.6	97.2	108.1
125	107.1	106.6	98.5	96.7	99.4	100.2	103.7
125	112.2	111.1	102.5	100.7	100.8	101.8	108.0
250	113.0	113.0	102.3	100.8	103.2	104.3	108.7
500	116.8	114.3	100.5	97.8	102.2	103.1	108.9
1K	126.0	121.6	102.9	100.4	106.4	109.7	113.8
2K	123.1	121.8	107.1	104.7	111.8	109.5	116.6
4K	129.9	124.3	109.2	105.6	110.9	110.8	121.6
8K	119.9	118.6	103.8	100.2	105.8	105.4	114.3
LP-8	132.5	128.5	113.6	110.9	116.2	116.1	124.3
SIL	126.3	122.6	106.4	103.6	109.7	110.0	117.4
SOBA	133.1	128.7	113.4	110.4	116.4	116.1	124.7
PNDB	147.8	143.3	128.6	125.3	130.4	130.3	139.9

YF-12 BEAL TEST 3/26/80
 08:45 JUN 25, '80 TEST 11274
 YF-12 BEALE TEST 3/26/80
 BARE ENGINE WITH BELLMOUTH
 RUN 21
 6700 RPM

RUN	156	157	158	159	160	161	162
FREQ (HZ)	TR 1 B1 40. DEG	TR 2 B2 0. DEG	TR 3 B3 0. DEG	TR 4 B4 0. DEG	TR 5 B5 20. DEG	TR 6 B6 40. DEG	TR 8 B8 0. DEG
50	101.8	102.8	98.1	97.4	100.6	98.6	102.4
63	105.8	102.6	100.0	98.1	99.7	101.8	102.0
80	108.9	108.2	101.6	99.4	102.0	100.3	104.7
100	109.9	109.9	101.2	98.7	101.1	102.0	105.5
125	113.5	113.0	106.4	104.7	104.0	103.9	111.5
160	116.1	115.2	108.2	106.3	104.4	107.4	113.0
200	114.5	114.8	104.8	103.0	106.3	108.0	110.9
250	114.3	113.9	103.1	101.6	106.6	107.0	110.9
315	115.8	113.5	103.5	102.1	107.0	106.6	111.5
400	116.0	116.0	103.3	101.6	106.0	105.7	111.2
500	116.4	116.8	102.1	99.7	106.0	104.7	111.4
630	119.3	117.0	103.1	100.0	106.3	105.5	112.0
800	122.7	121.6	103.5	100.3	107.2	106.2	112.1
1K	125.5	118.9	103.0	99.9	106.0	106.3	112.3
1.25K	124.8	120.7	104.1	100.9	106.7	107.5	112.0
1.6K	120.8	118.1	102.6	100.2	110.0	107.3	112.8
2K	120.0	120.1	103.9	101.0	107.9	107.2	113.2
2.5K	117.8	117.8	102.6	99.9	105.2	105.0	111.1
3.15K	120.7	117.4	102.7	100.4	105.5	105.5	111.7
4K	127.0	122.4	106.3	102.8	108.9	106.4	117.0
5K	117.7	116.2	100.4	97.4	103.1	102.9	110.8
6.3K	116.1	115.4	100.2	96.6	103.1	102.4	110.4
8K	115.8	114.1	99.0	96.8	102.1	101.4	110.1
10K	112.3	111.6	94.9	91.5	98.9	96.8	107.9
83	111.1	110.1	104.9	103.2	105.4	105.2	108.0
125	118.6	118.0	110.9	109.0	108.2	109.8	115.8
250	119.6	118.9	108.6	107.0	111.4	112.0	115.9
500	122.3	121.4	107.6	105.3	110.9	110.1	116.3
1K	129.3	125.3	108.3	105.2	111.4	111.5	116.9
2K	124.5	123.5	107.9	105.1	112.9	111.4	117.3
4K	128.3	124.3	108.6	105.5	111.2	109.9	118.8
8K	119.8	118.7	103.3	100.3	106.5	105.6	114.4
LP-8	133.5	130.8	117.1	114.7	119.4	119.0	125.2
SIL	127.4	124.4	108.3	105.3	111.8	110.9	117.7
ODBA	133.5	130.5	114.8	111.9	115.3	117.4	124.2
PNDB	147.8	144.7	129.9	126.9	132.6	131.4	139.3
*STOP 0							

End of Document