

A Photochemical Amplifier Based on Self-Immolative Dendritic Spacers

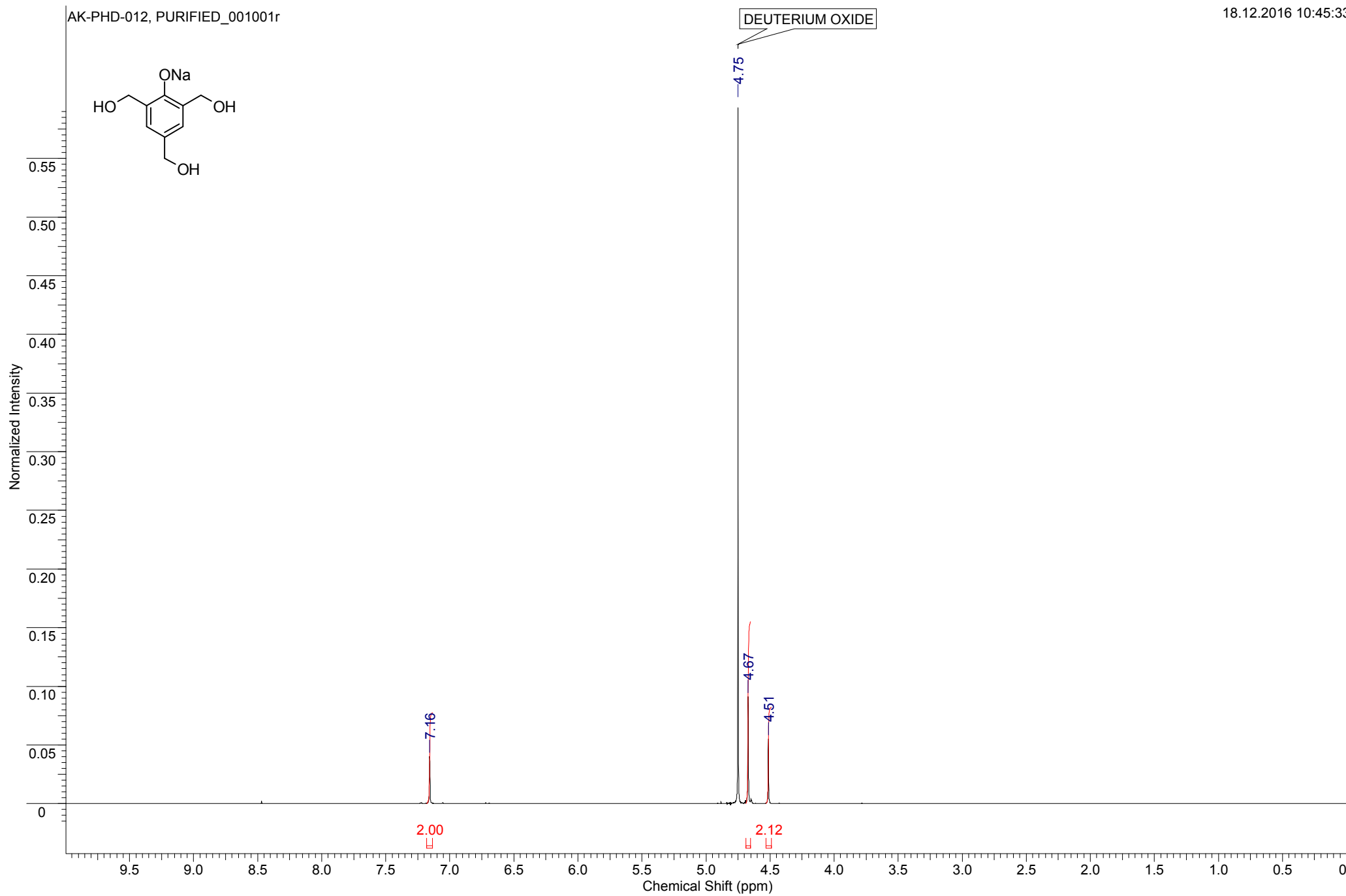
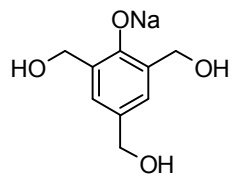
Agonist Kastrati and Christian G. Bochet*

*Department of chemistry, University of Fribourg,
9 Chemin du Musée, CH-1700 Fribourg, Switzerland
christian.bochet@unifr.ch*

Supplementary Information

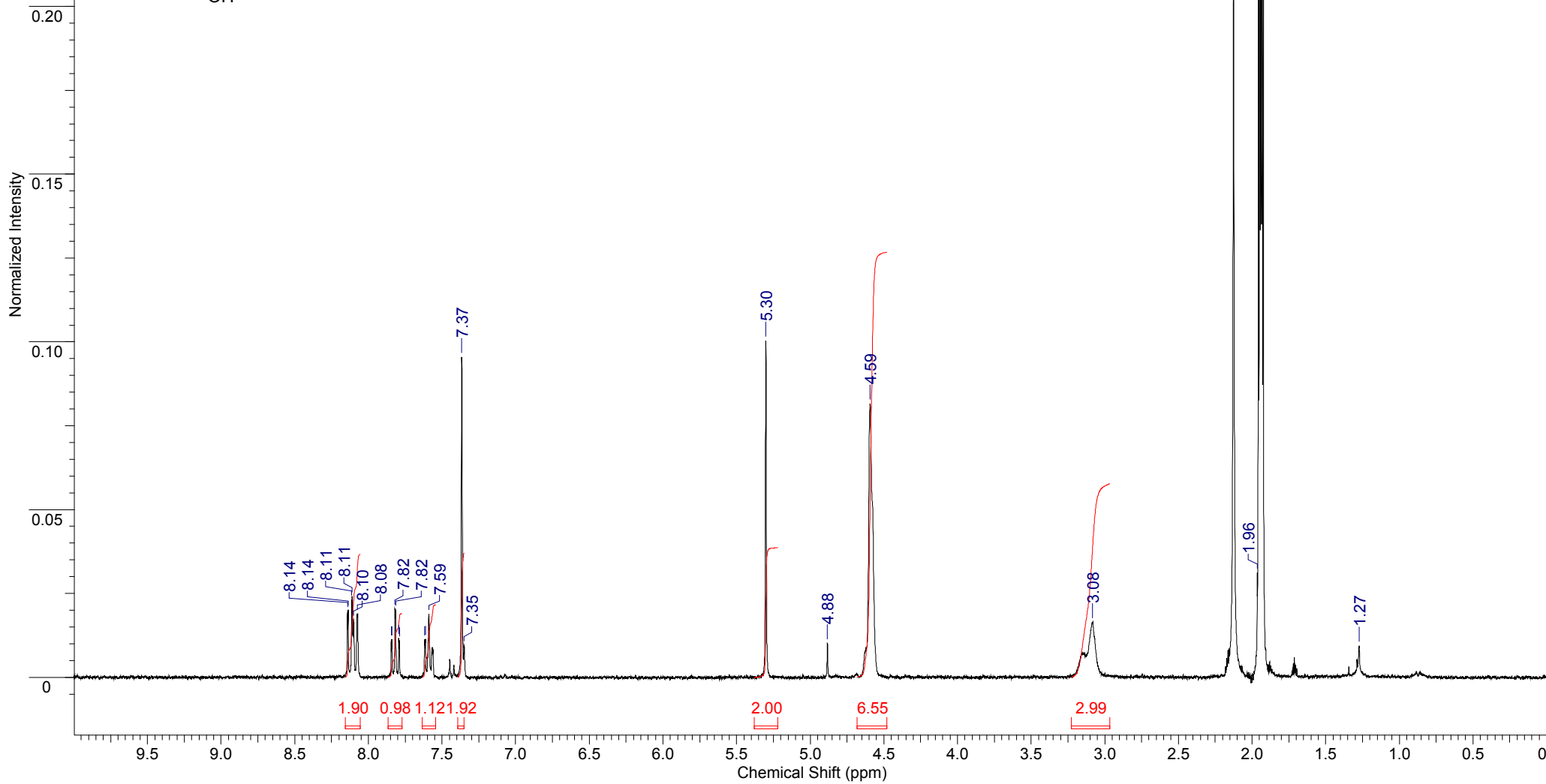
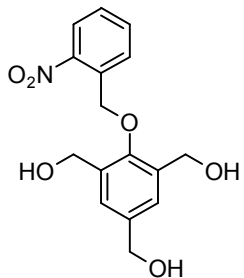
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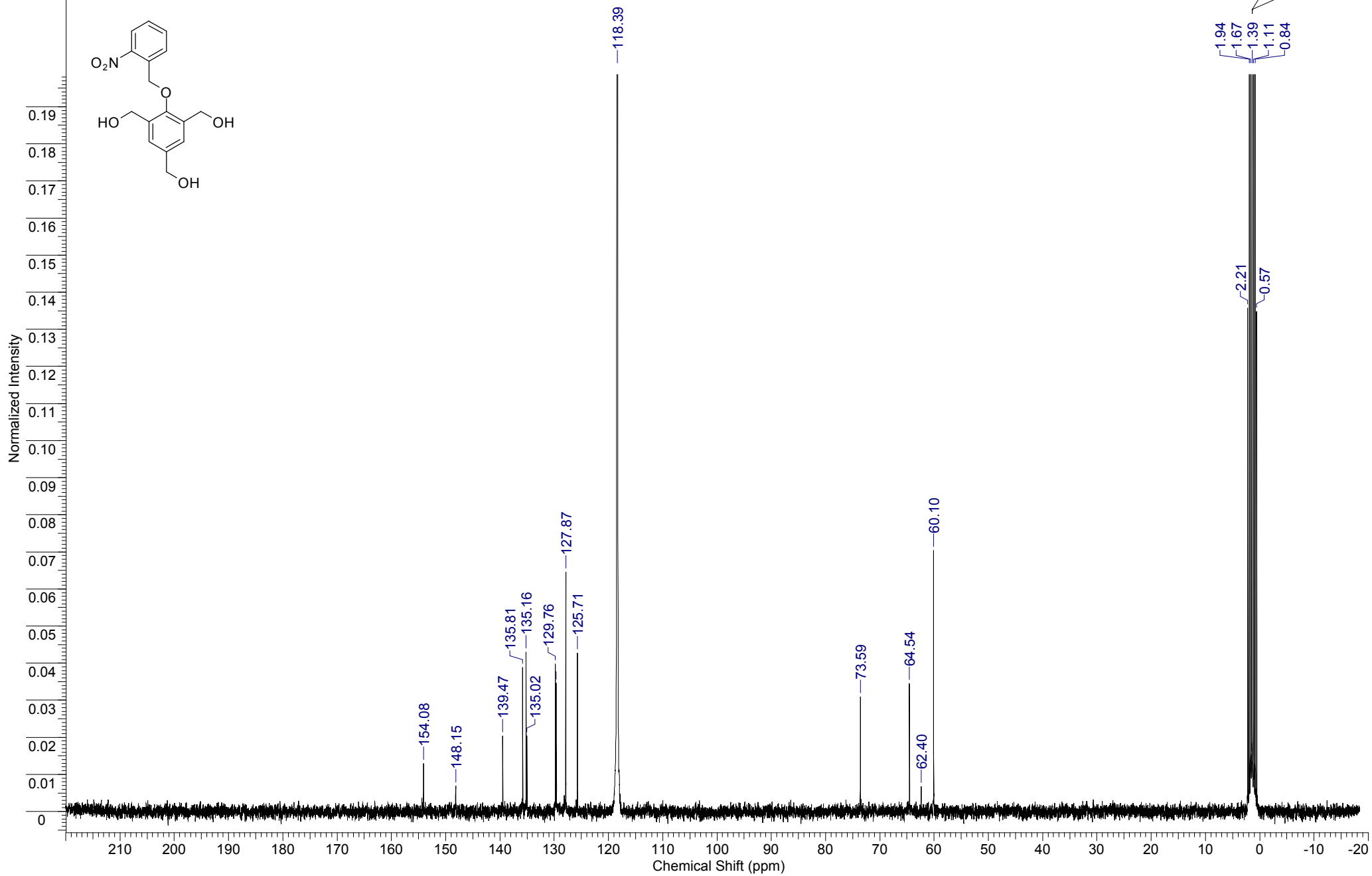
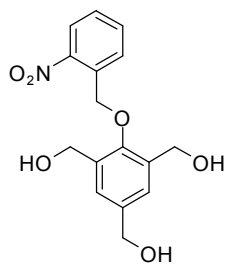


AK-PHD-013, CD3CN_001001r

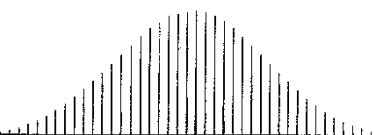
ACETONITRILE-d3 18.12.2016 11:11:53



AK-PHD-013, MELTING POINT_005001r



CDCl₃ solvent triplet at 0 ppm



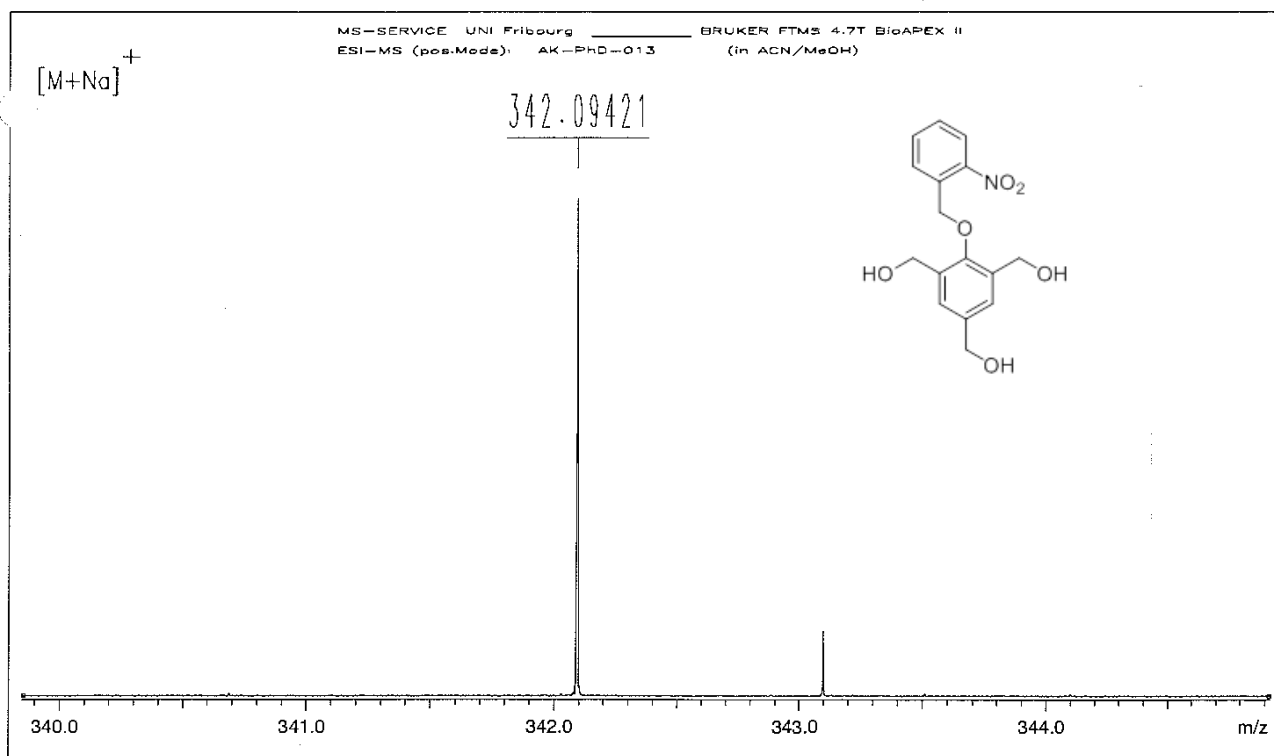
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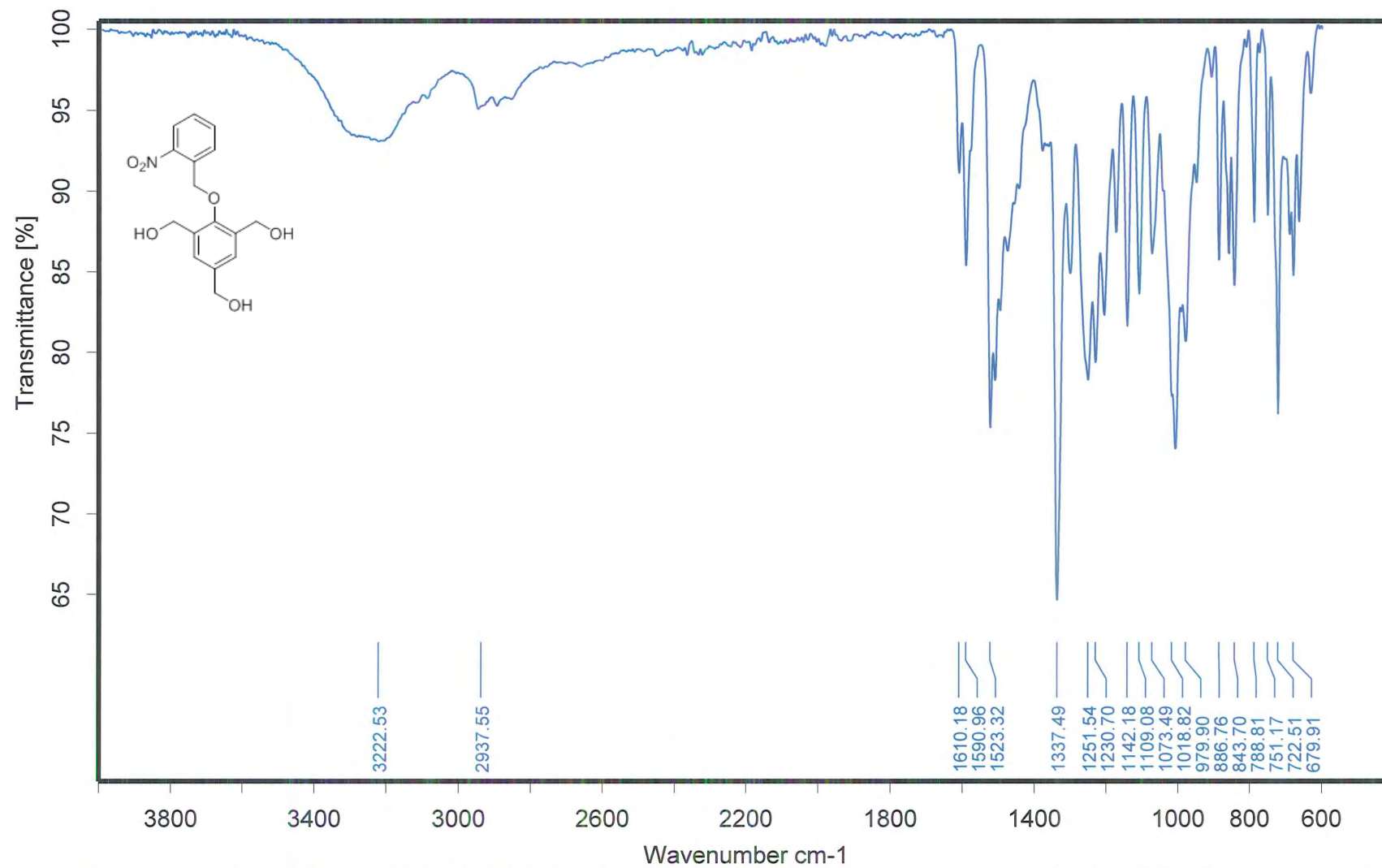
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Charge = +1

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3	13	16	3	8	0	342.0931909	7.5	1.020e-03
4	16	14	4	5	0	342.0958710	12.0	1.660e-03
5	25	12	1	1	0	342.0913404	20.5	2.871e-03
6	18	16	1	6	0	342.0972137	11.5	3.003e-03
7	19	15	2	3	1	342.0974884	13.0	3.277e-03
8	11	17	3	8	1	342.0907856	4.5	3.425e-03
9	7	19	4	10	1	342.0993389	0.0	5.128e-03
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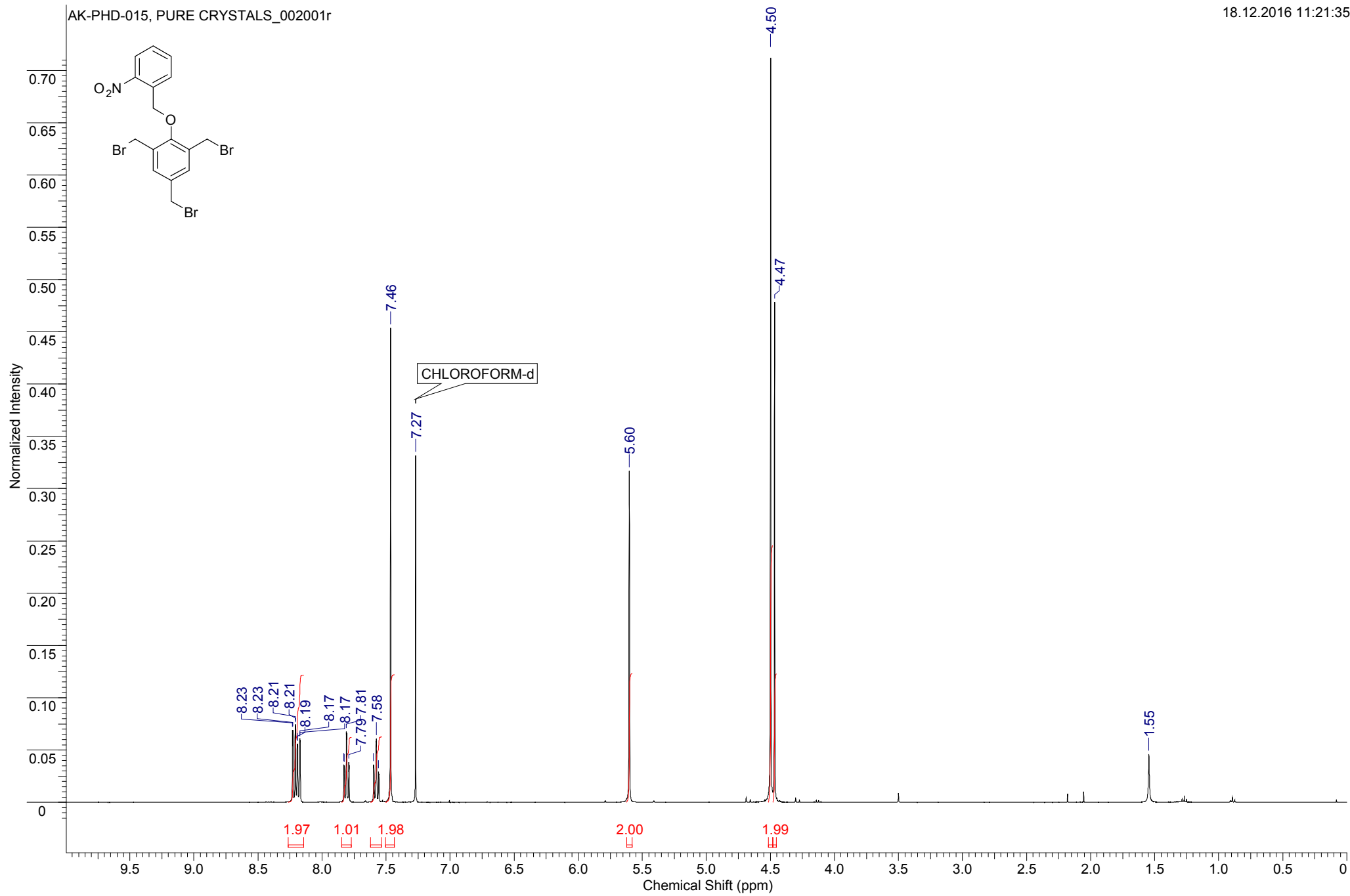


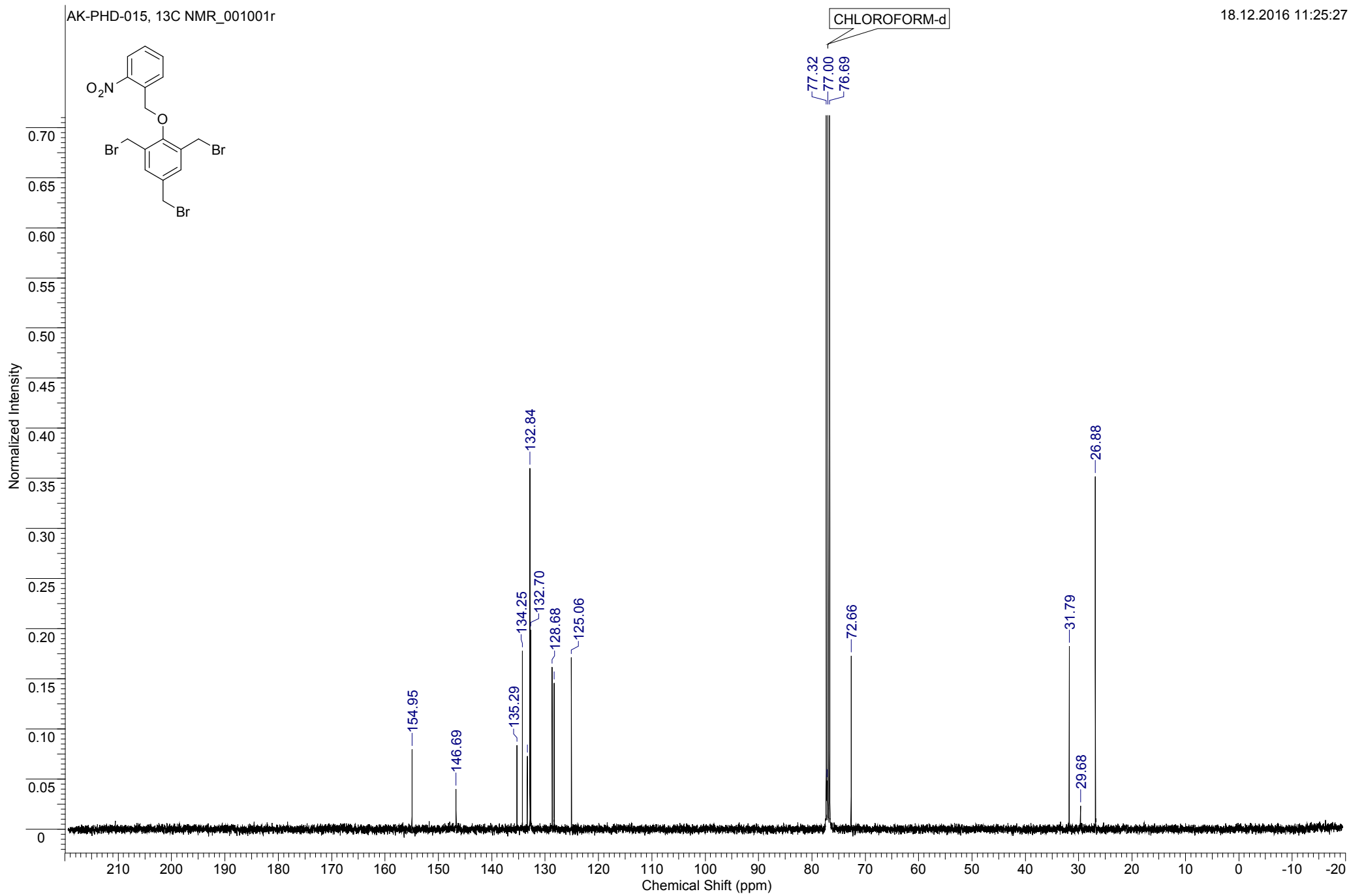


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AK-PhD-013.0

Date: 20.12.2016, 14:08:09





Comment 1

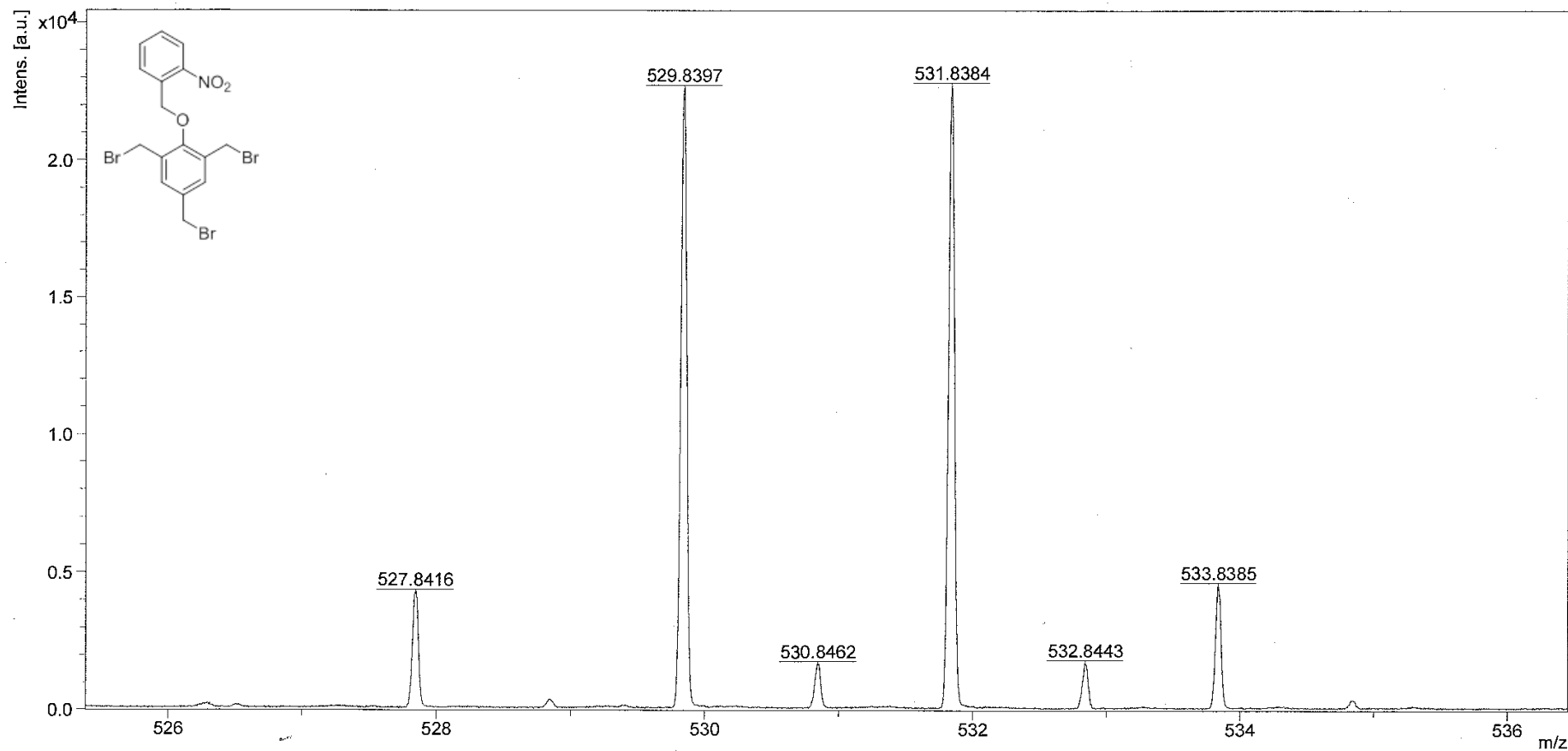
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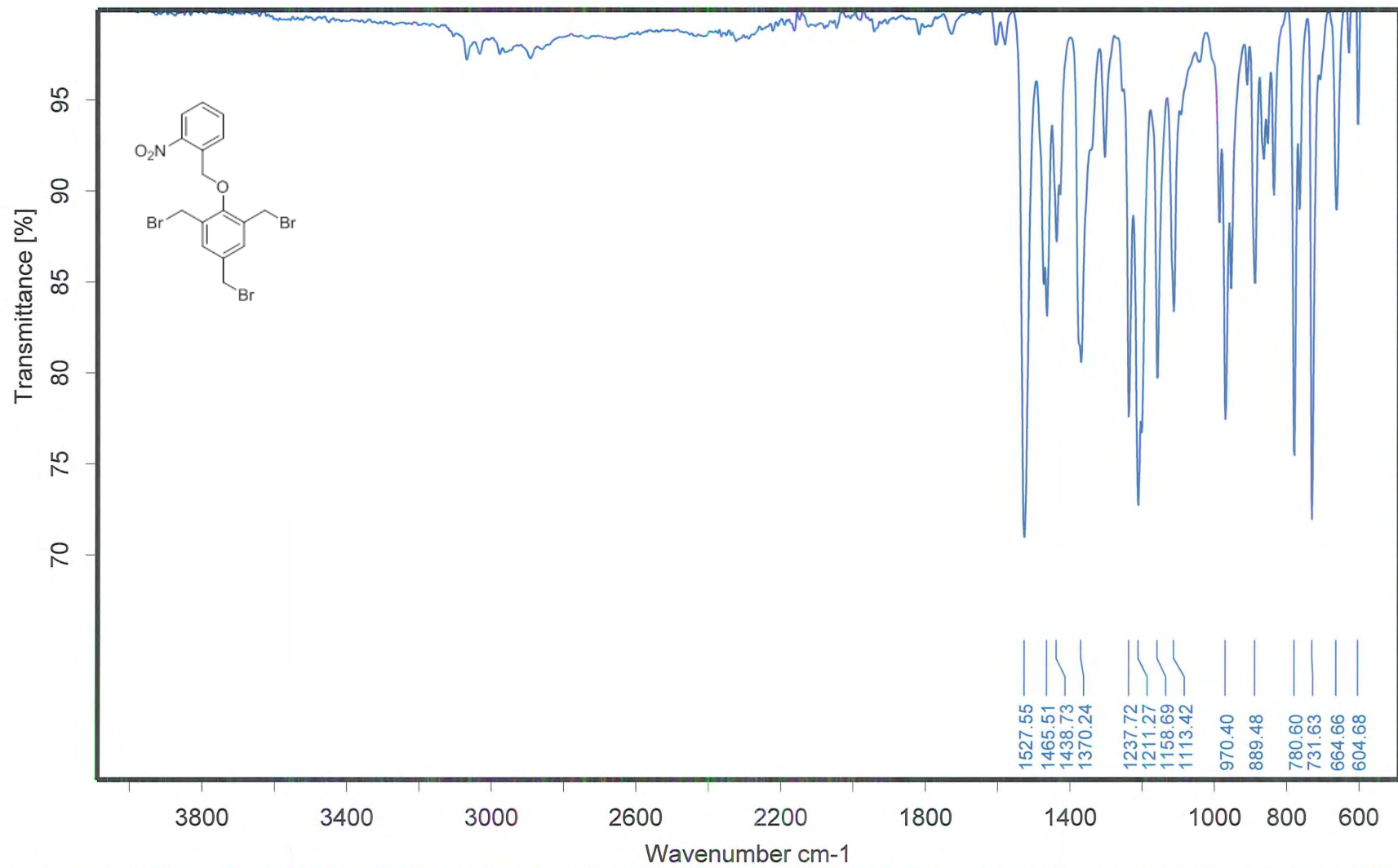
Instrument type: MALDI-TOF BRUKER ultrafleXtreme

Mass spectrometry service

University of Fribourg

Department of Chemistry



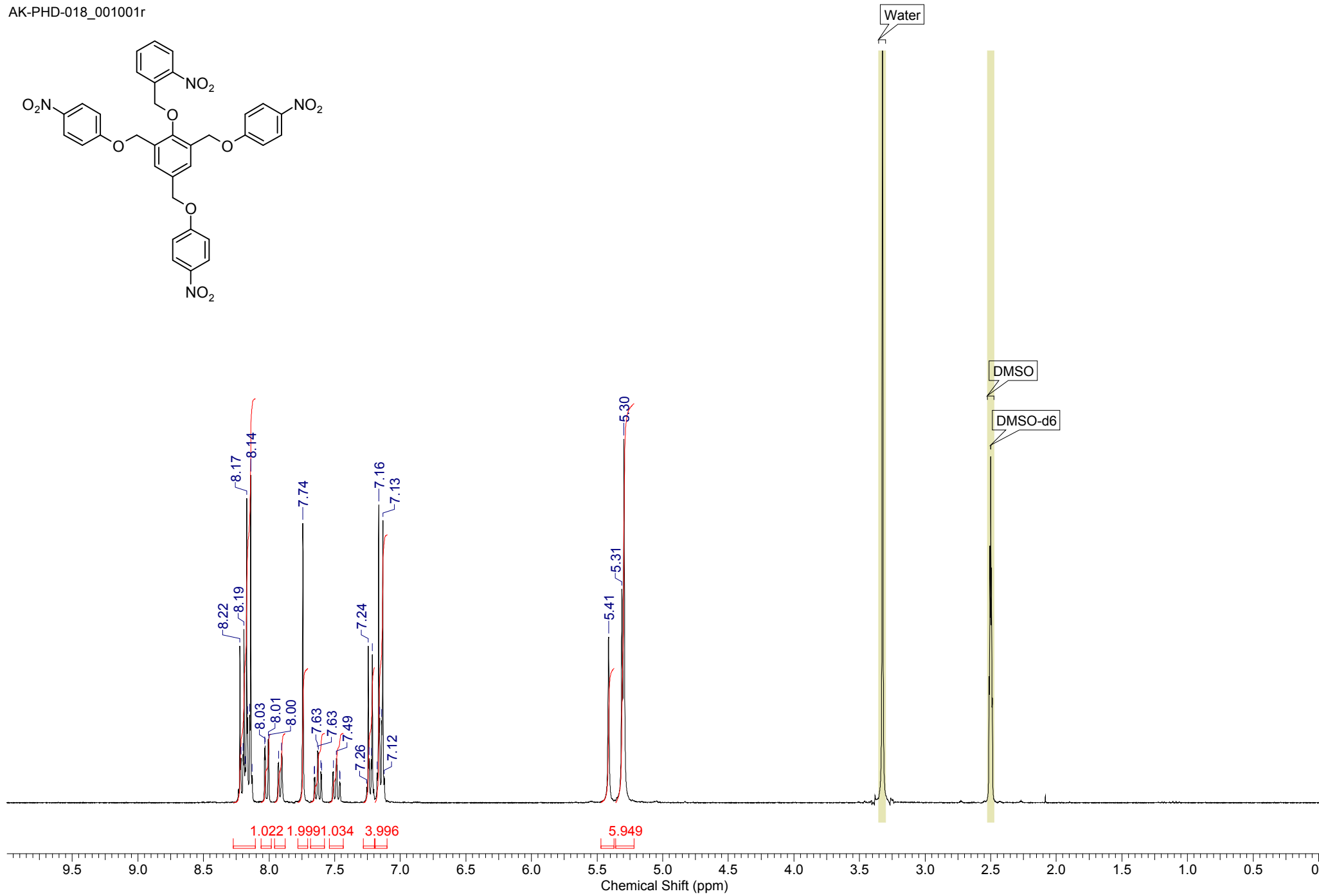
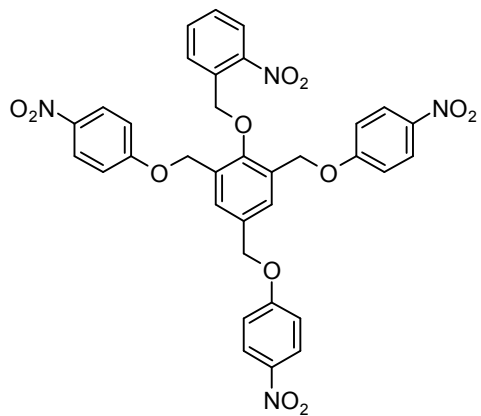


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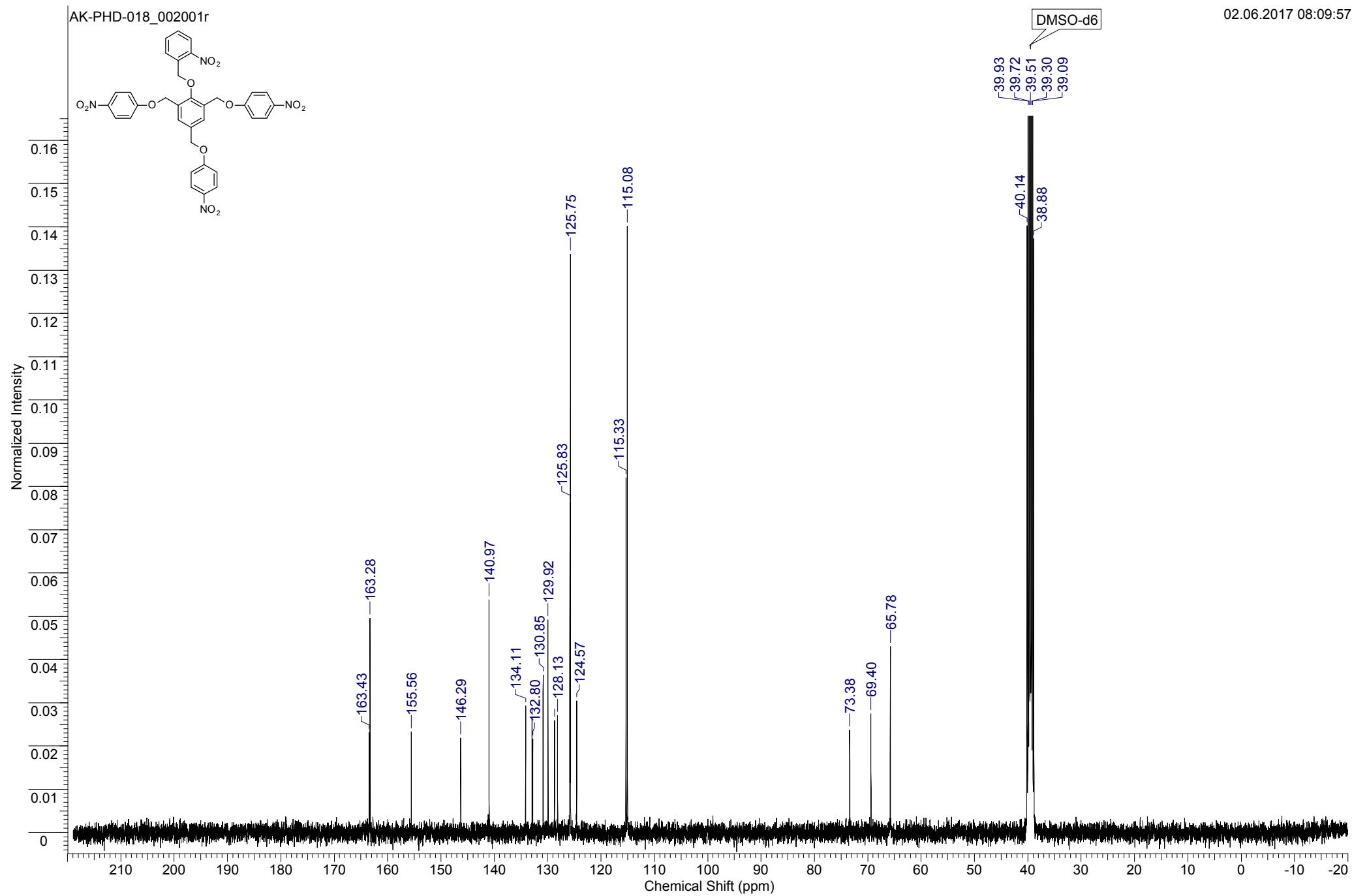
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AK-PHD-018_001001r



S11



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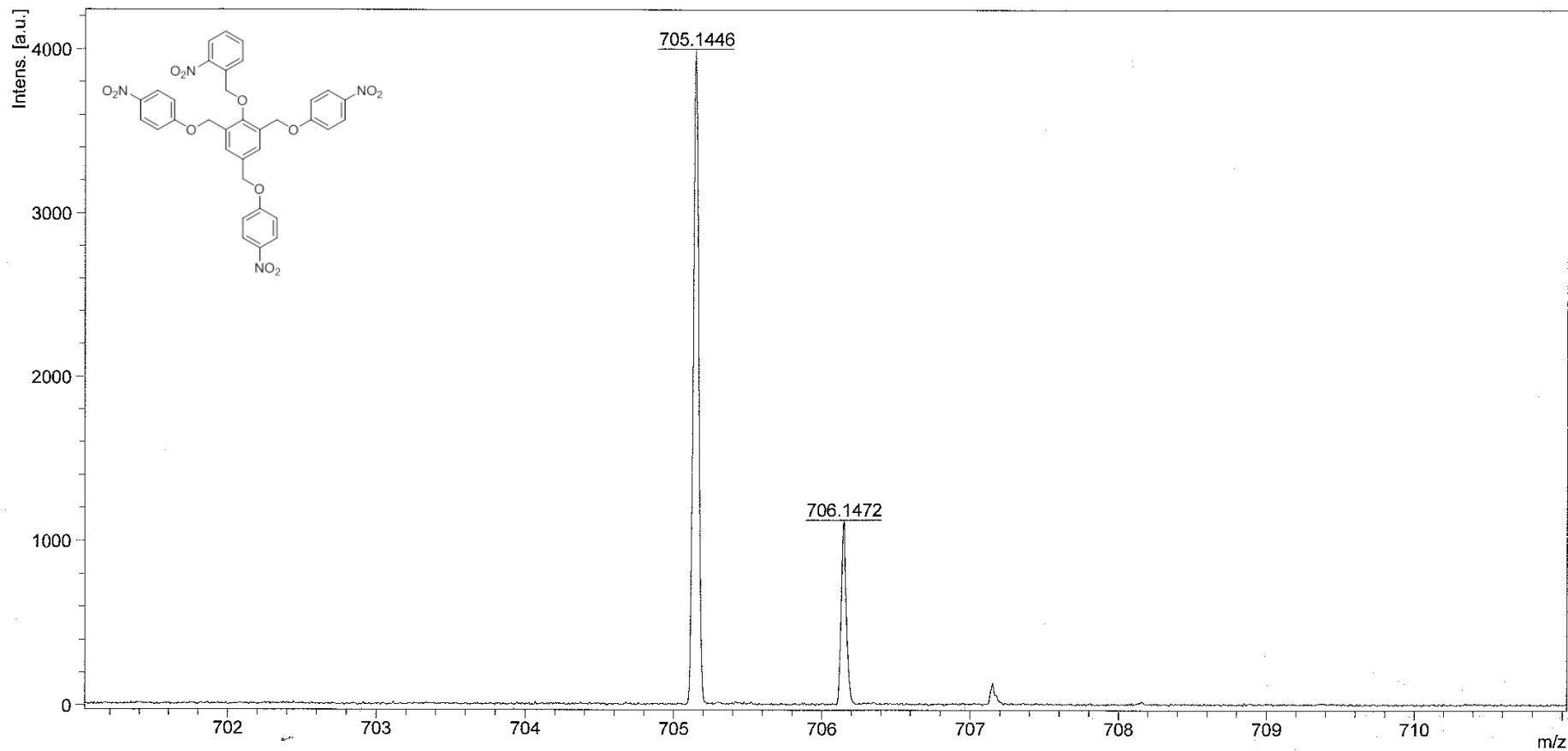
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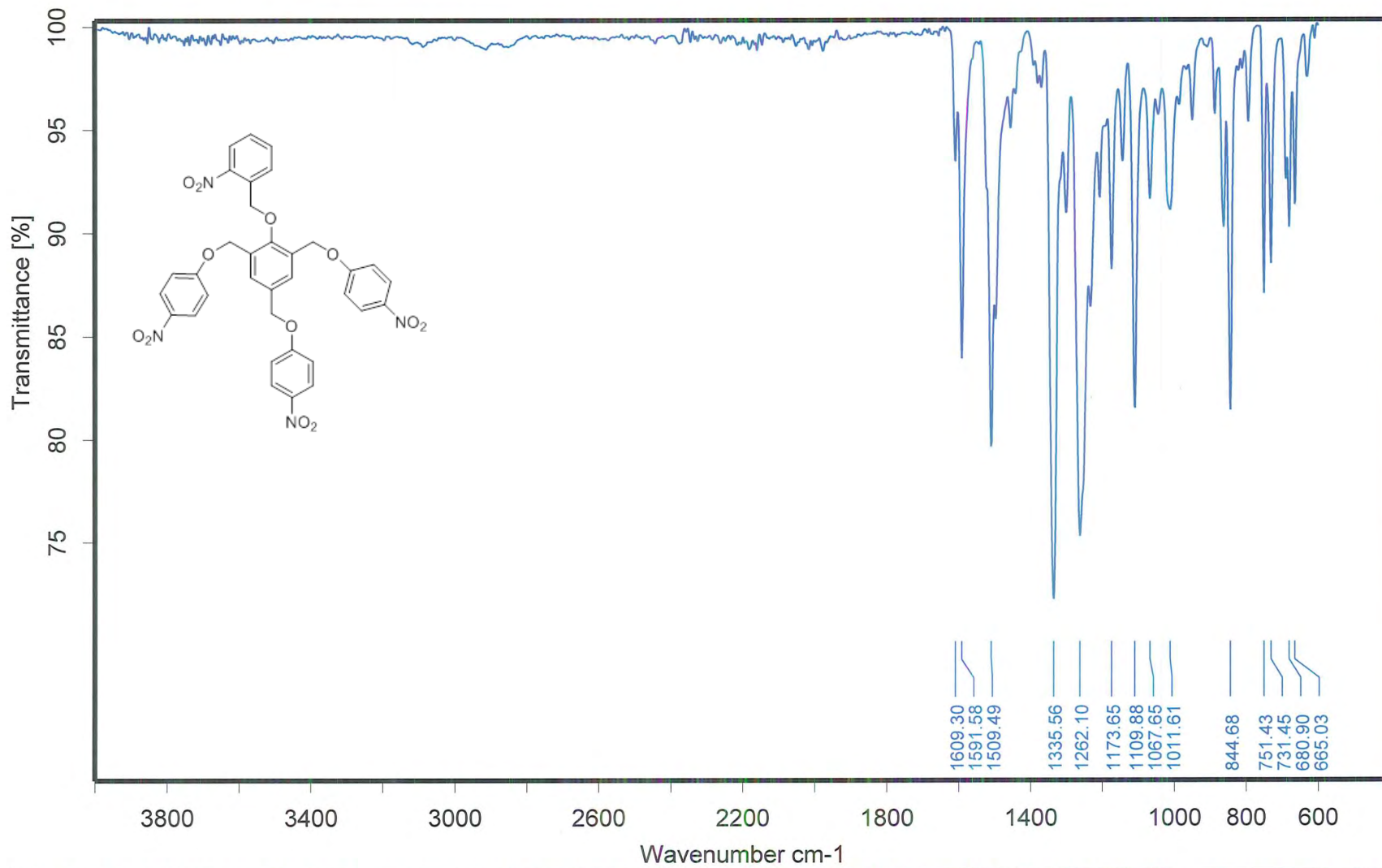
Instrument type: MALDI-TOF BRUKER ultrafleXtreme

Mass spectrometry service

University of Fribourg

Department of Chemistry



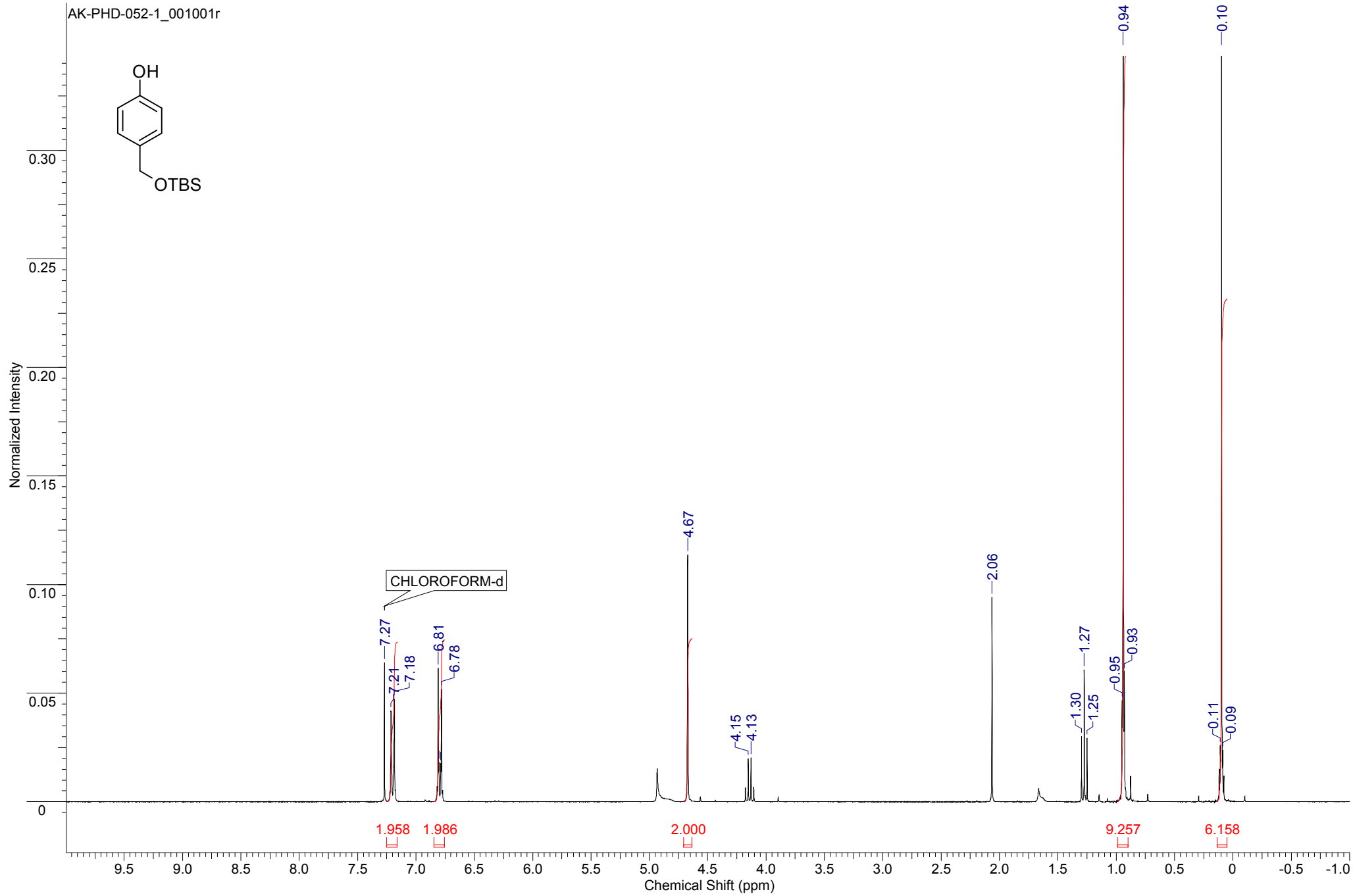
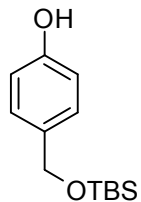


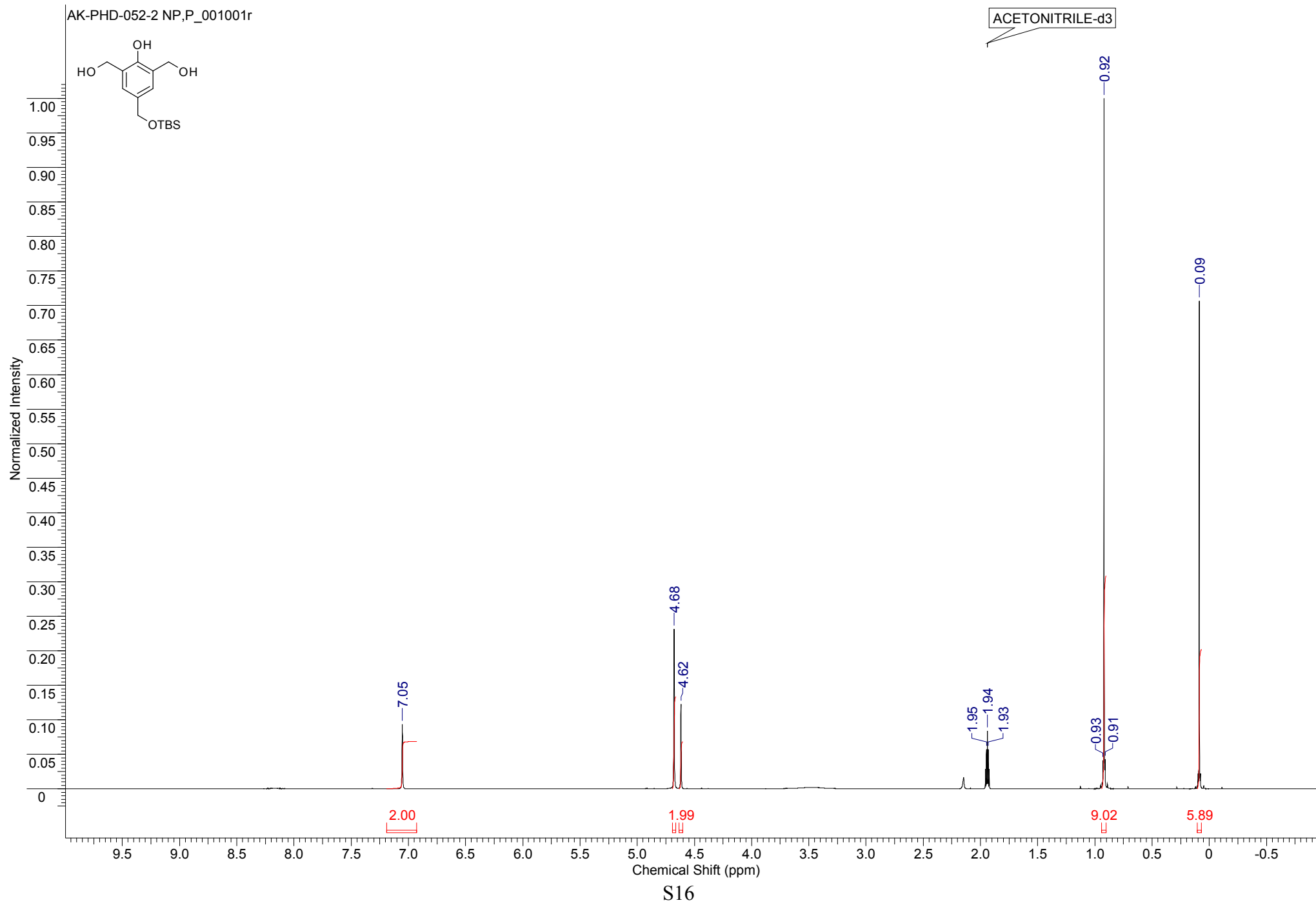
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AK-PhD-018.0

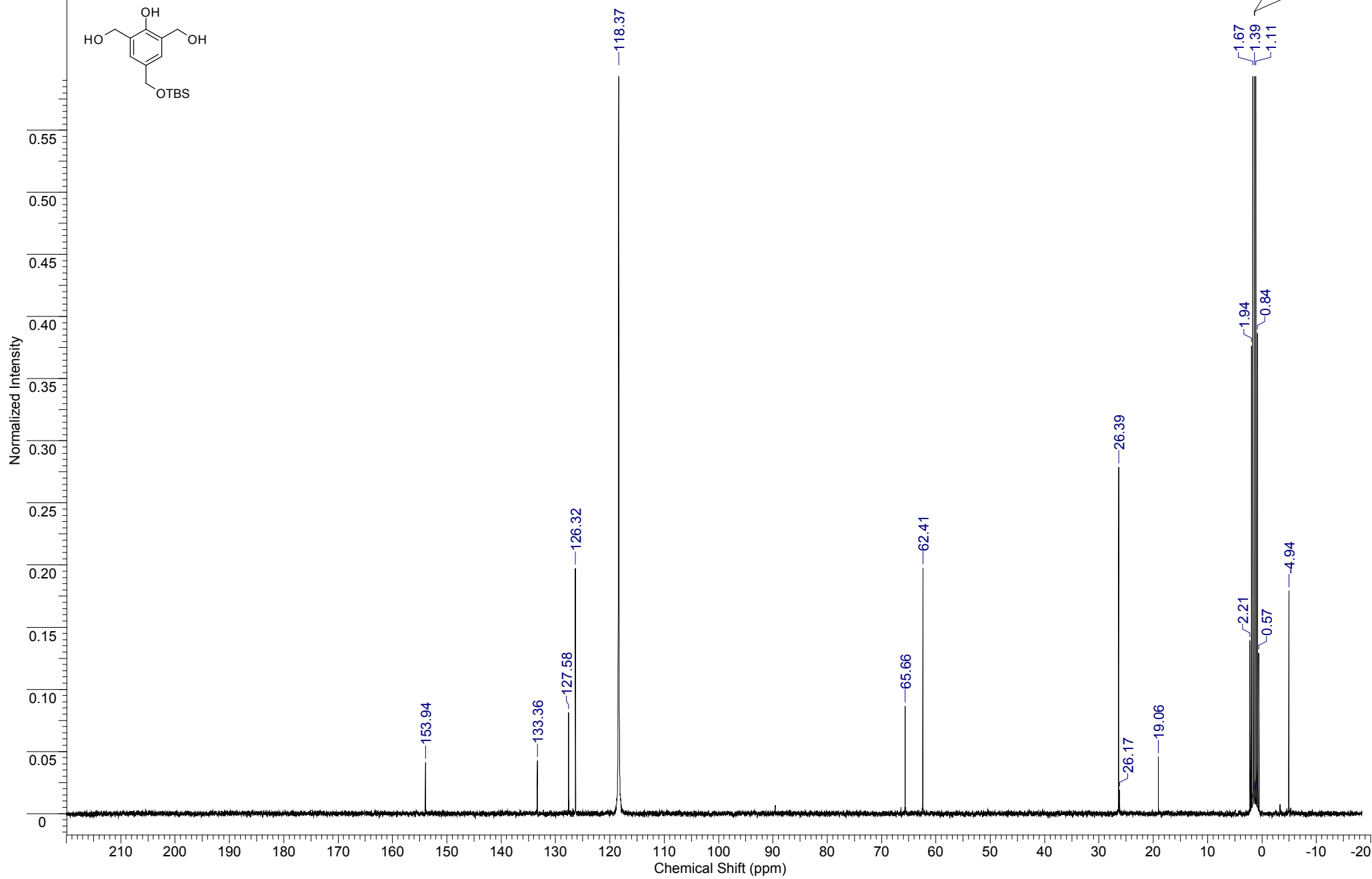
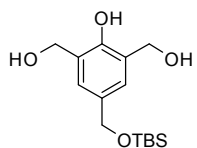
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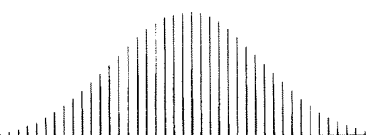
AK-PHD-052-1_001001r





AK-PHD052-2_002001r





ESI-MS: AK-PhD-052

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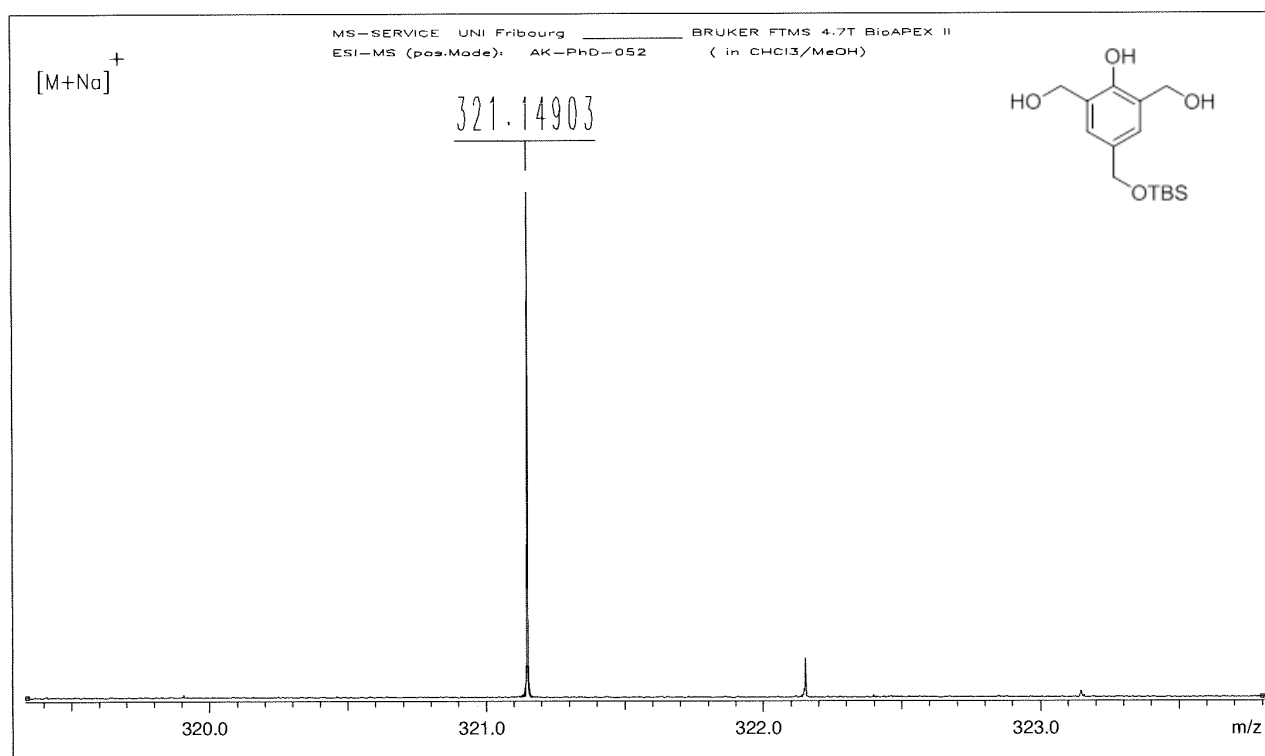
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Charge = +1

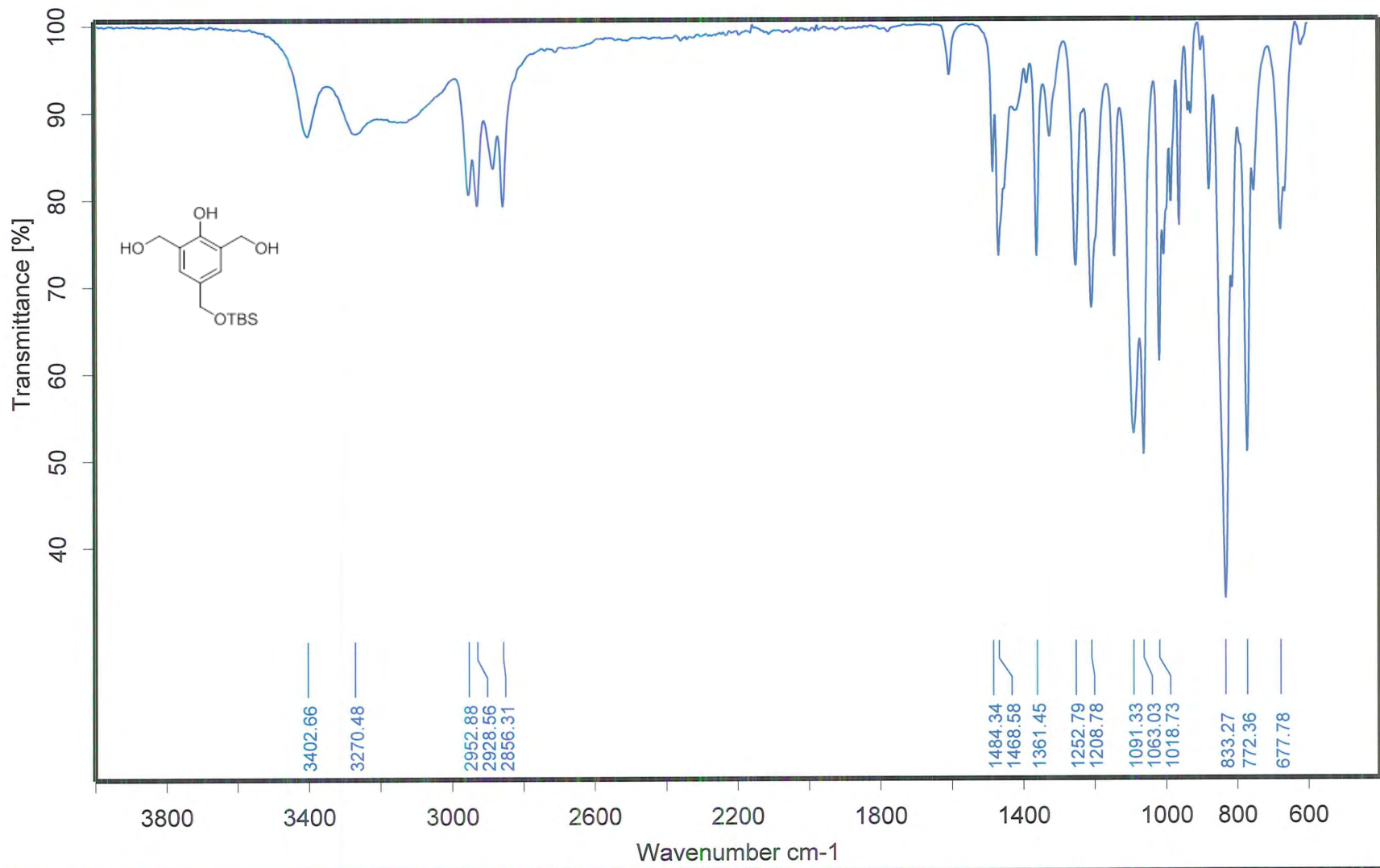
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*** Mass Analysis for mass 321.1490270

1	15	26	4	1	1	321.1492569	3.5	2.299e-04
2	17	25	4	1	0	321.1516622	6.5	2.635e-03
3	11	30	5	2	1	321.1523982	-1.5	3.371e-03
4	13	29	5	2	0	321.1548035	1.5	5.777e-03
5	10	29	9	1	0	321.1575355	-2.5	8.508e-03
6	9	29	8	2	0	321.1395474	-2.5	9.480e-03
7	13	25	7	1	0	321.1364061	2.5	1.262e-02
8	11	26	7	1	1	321.1340008	-0.5	1.503e-02
9	16	25	3	2	0	321.1336742	6.5	1.535e-02
10	19	26	1	1	1	321.1645131	7.5	1.549e-02



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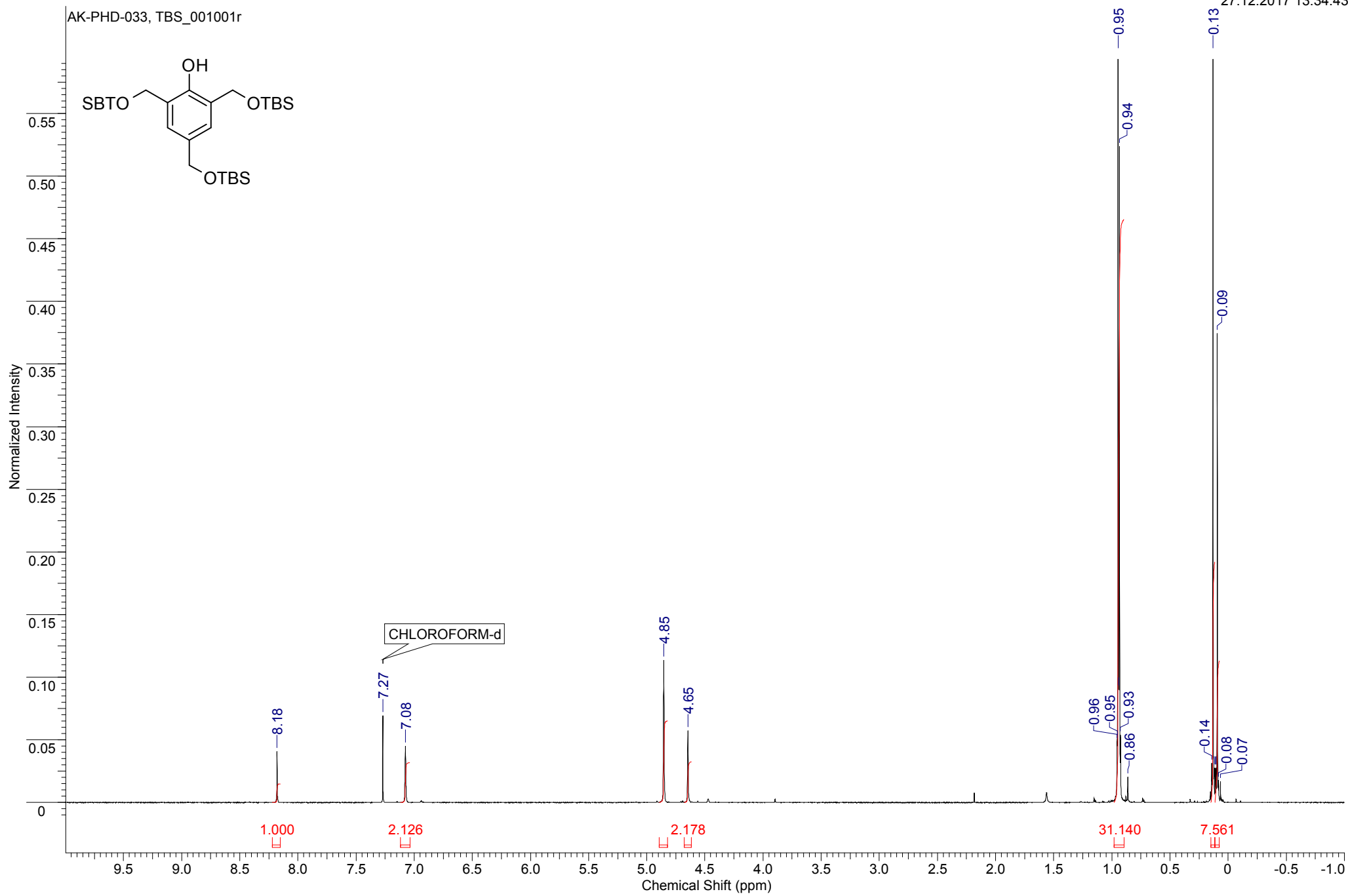
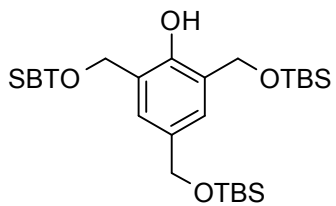


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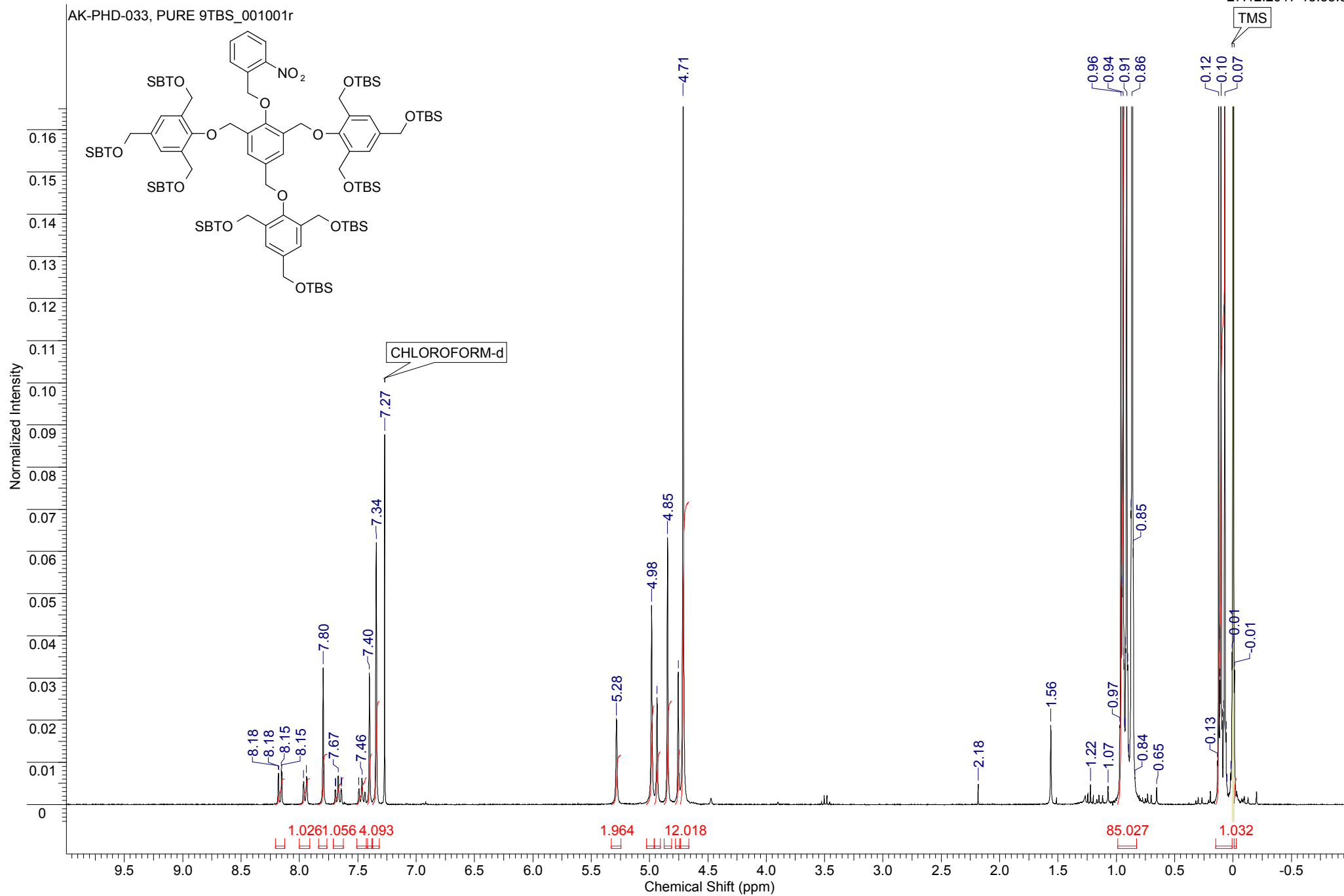
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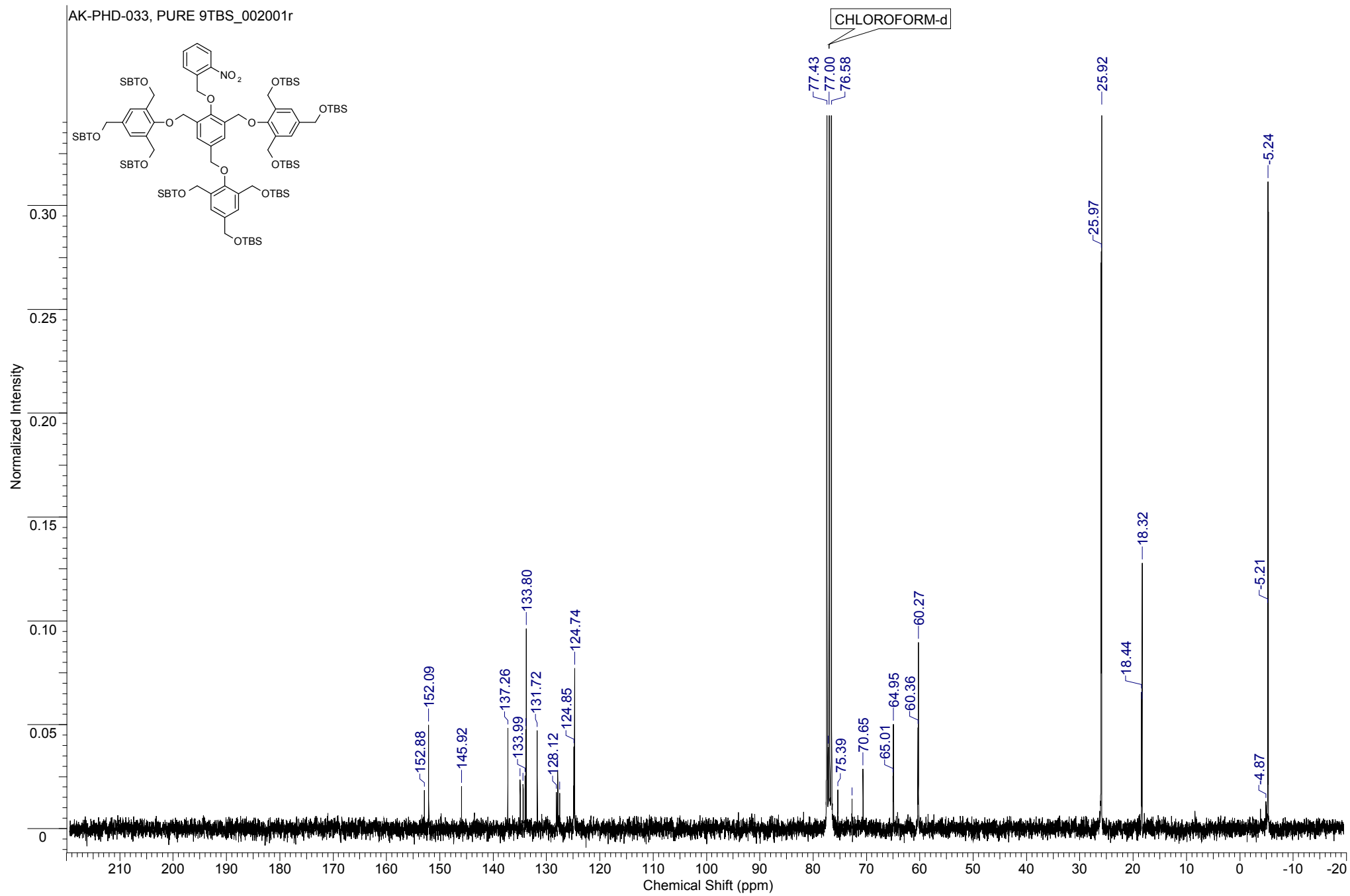
AK-PHD-033, TBS_001001r



AK-PHD-033, PURE 9TBS_001001r



S21



Comment 1

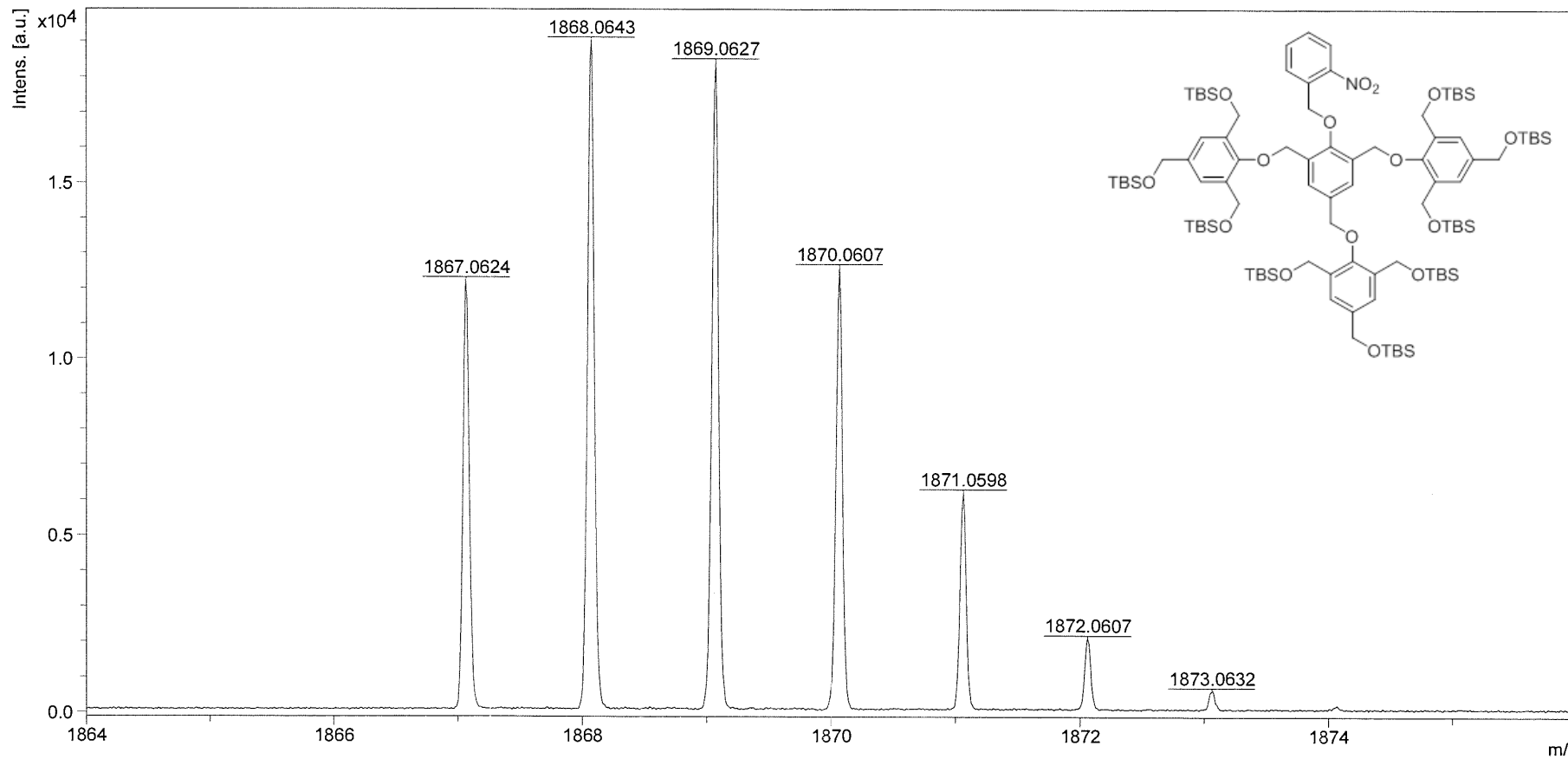
Comment 2 **AK-PhD-03 in DCTB+NaTFA**

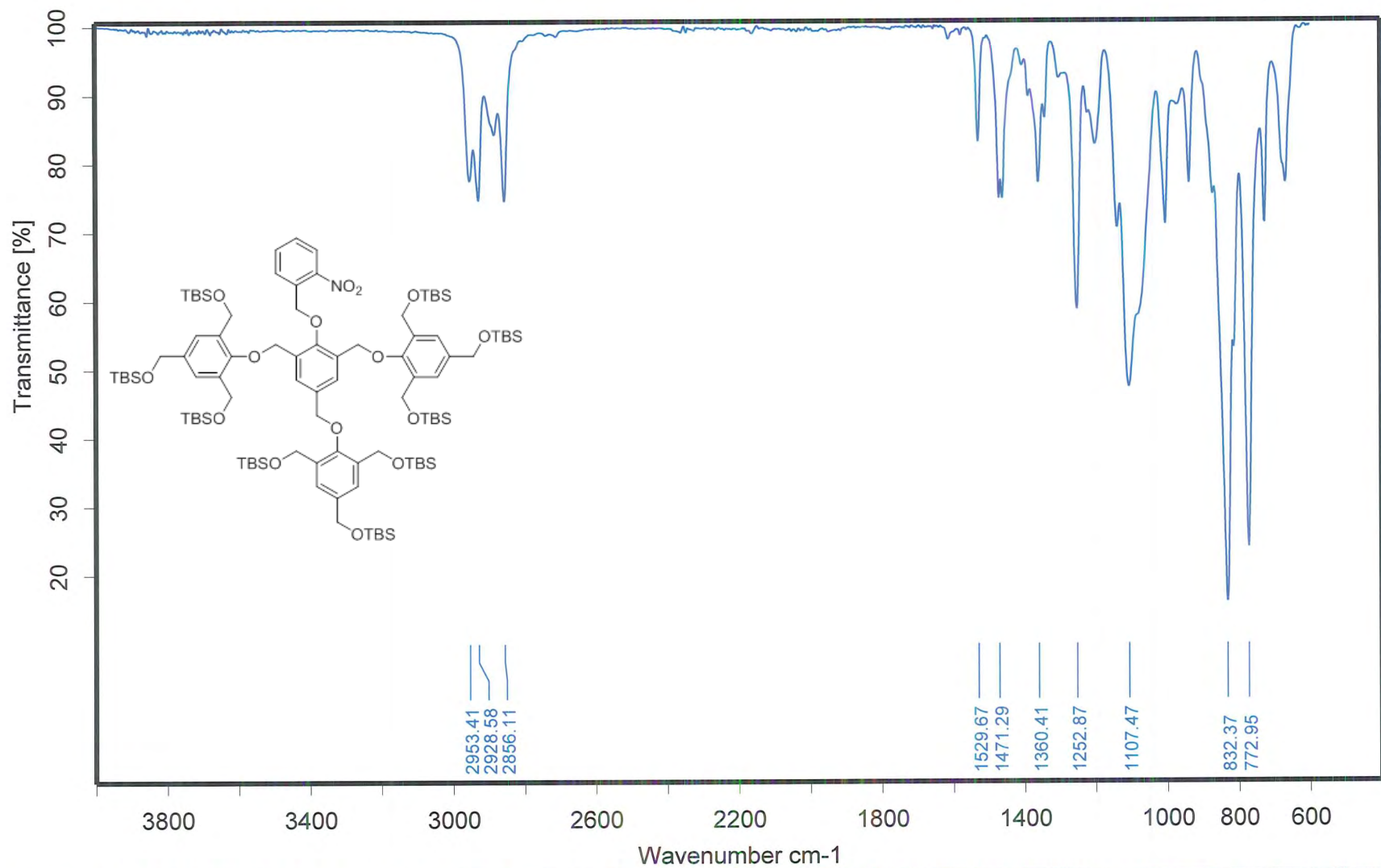
Instrument type: MALDI-TOF BRUKER ultrafleXtreme

Mass spectrometry service

University of Fribourg

Department of Chemistry

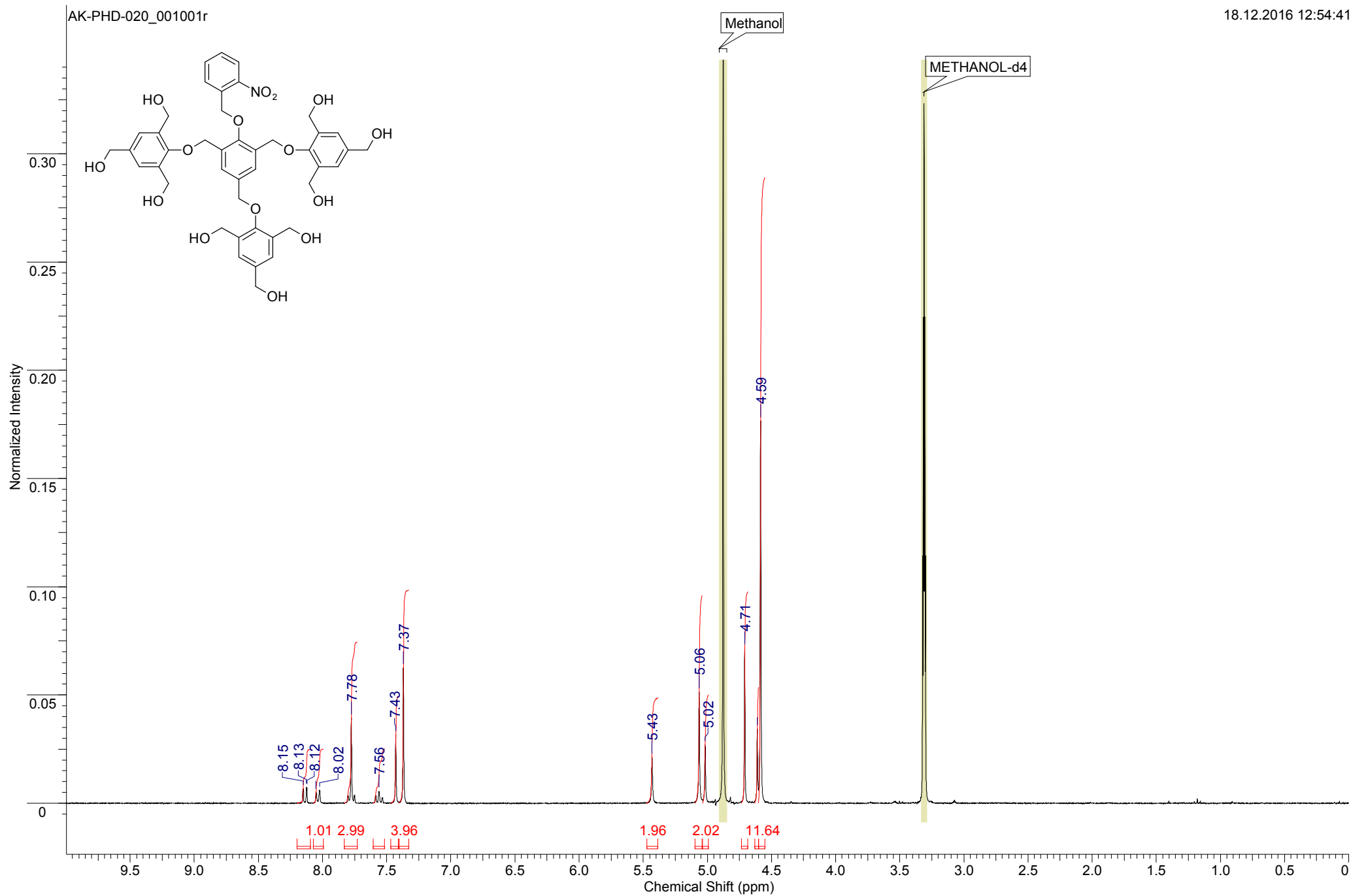


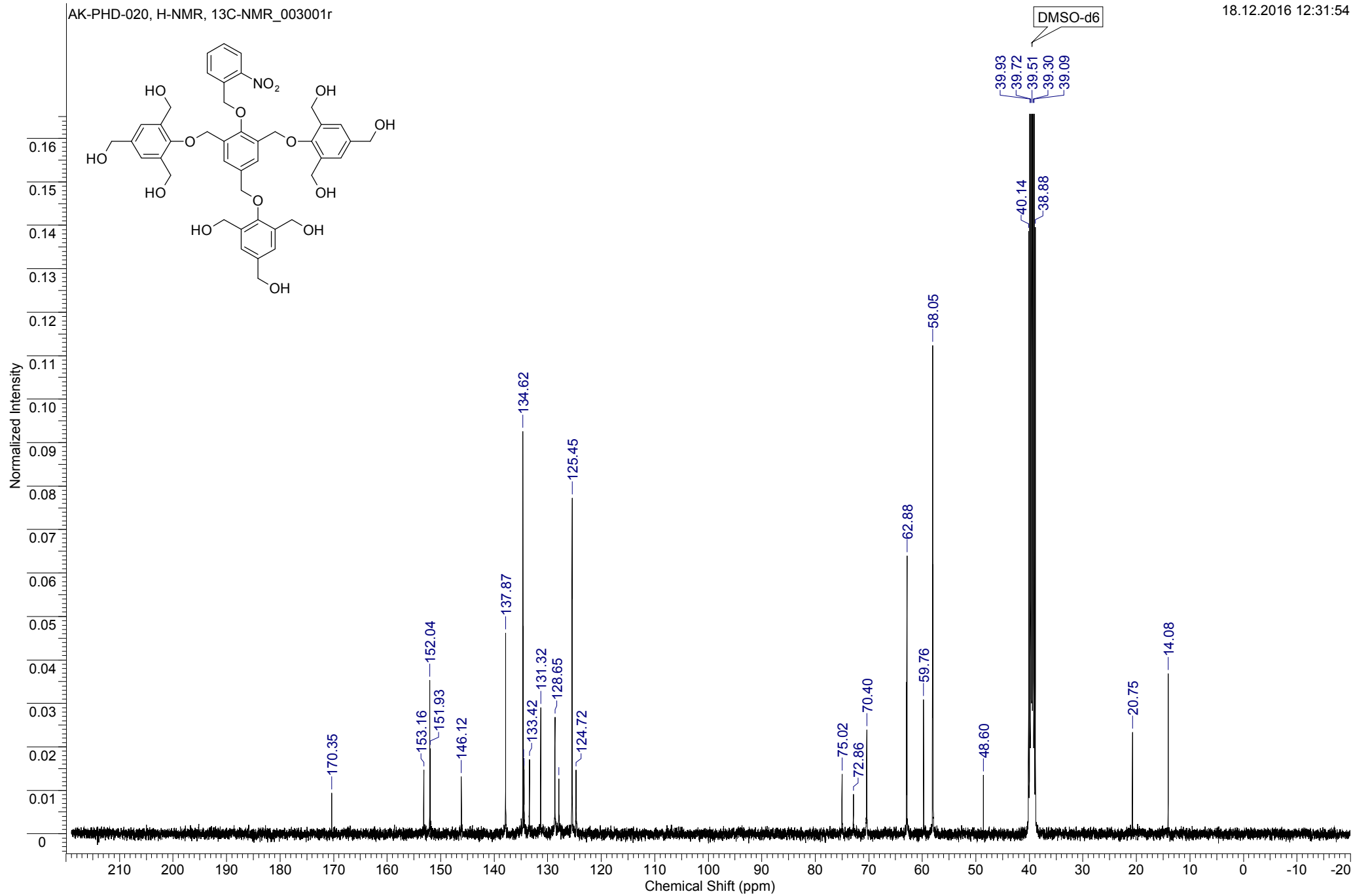


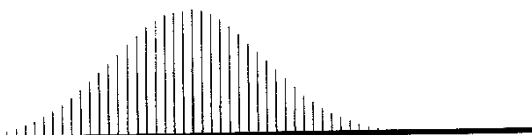
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AK-PhD-033.0

Date: 19.12.2016, 17:26:54







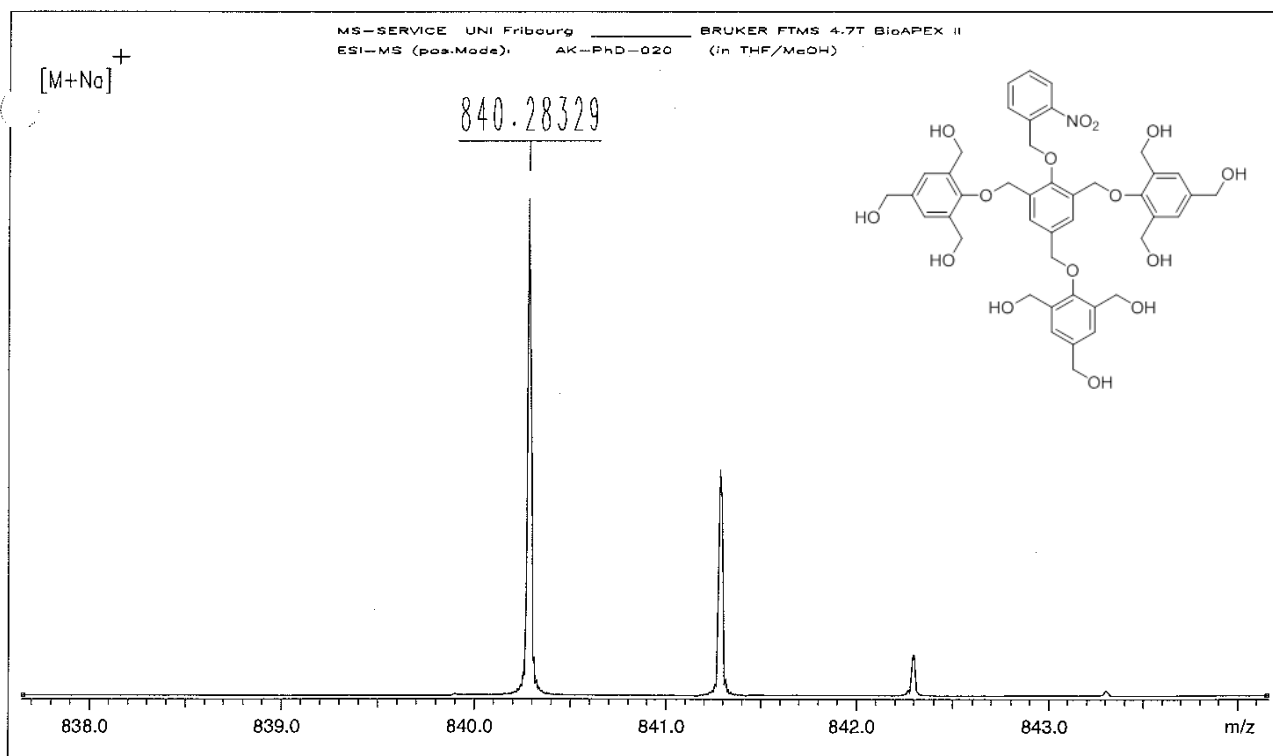
ESI-MS: AK-PhD-020

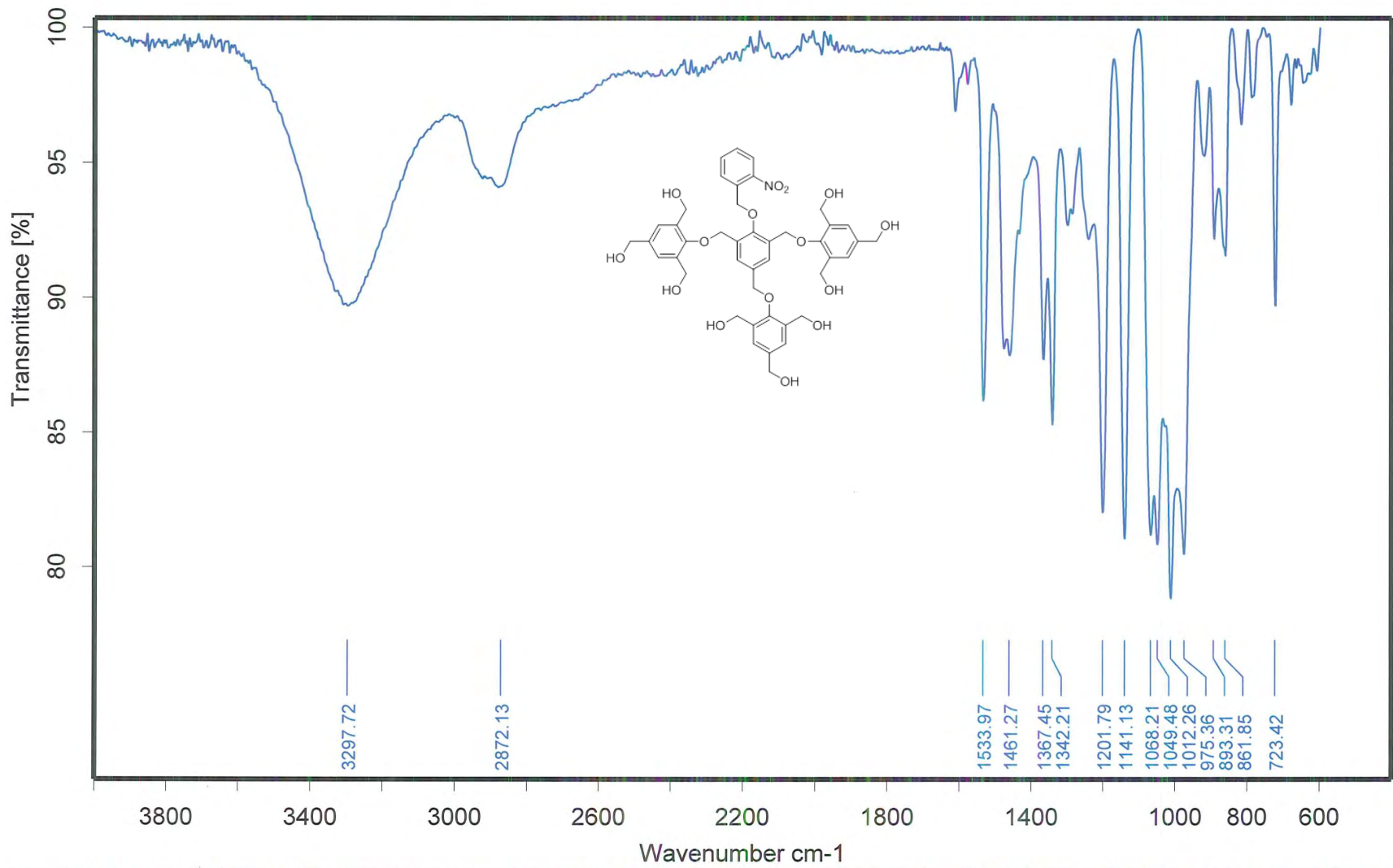
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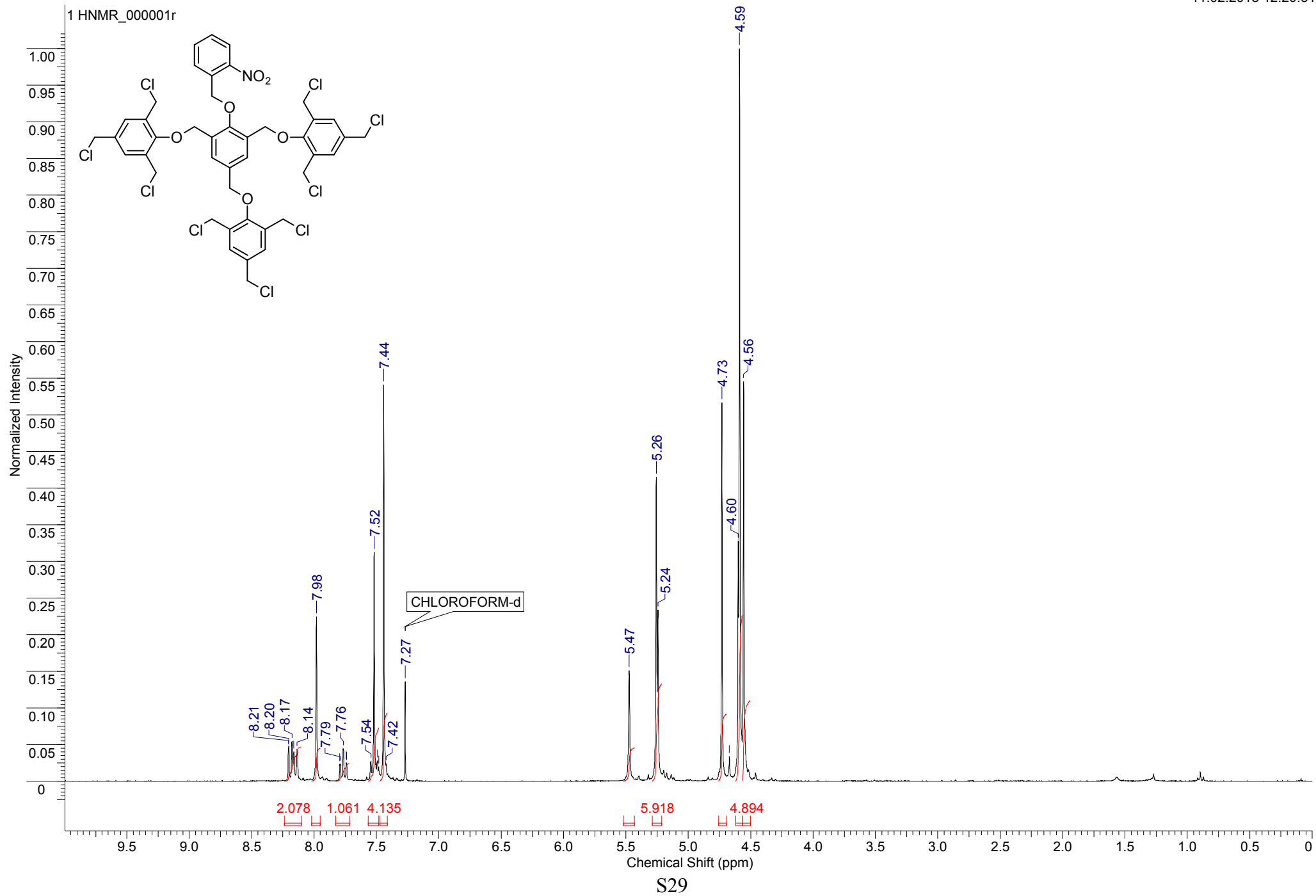
Charge = +1

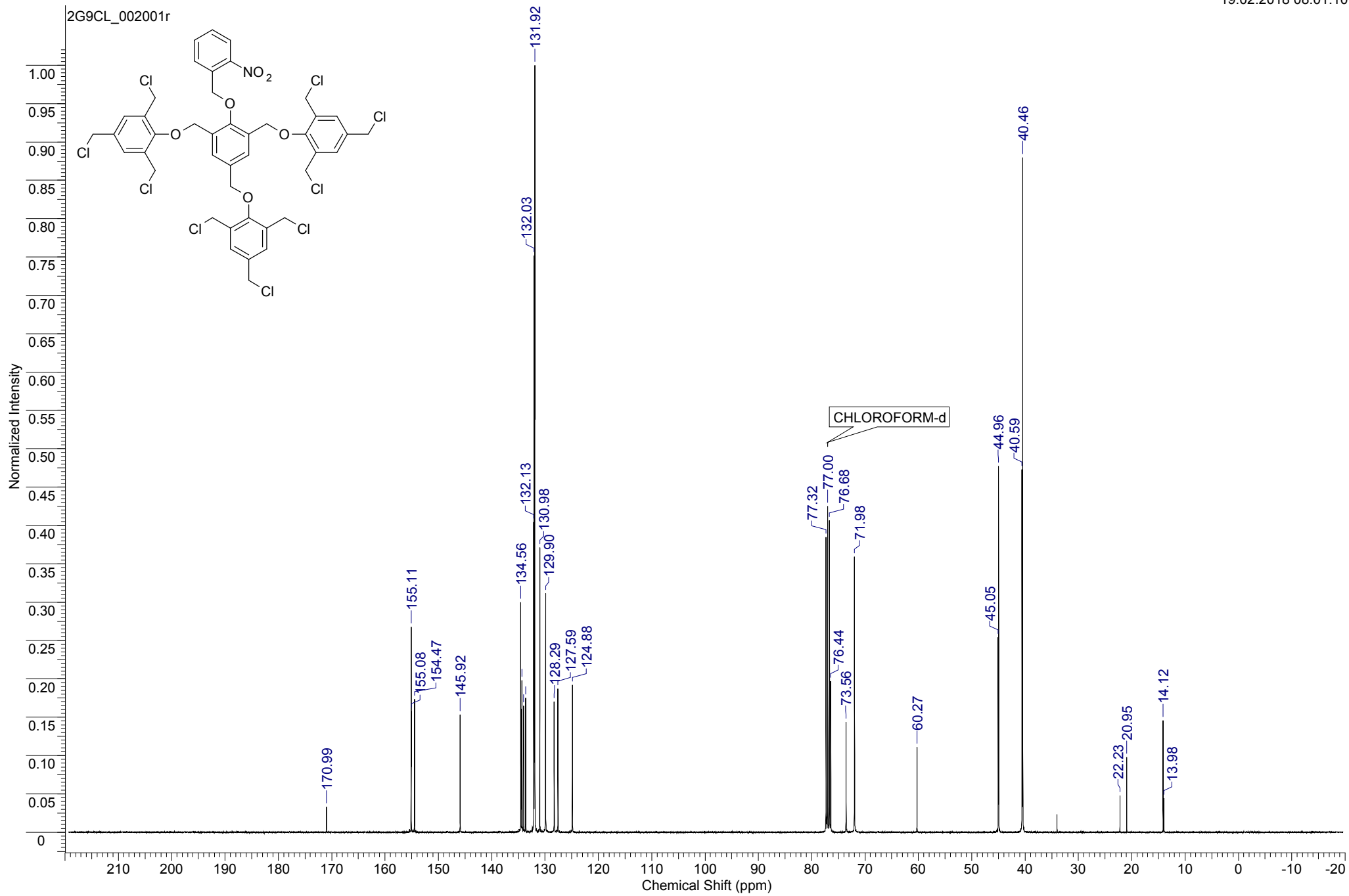
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2	45	46	1	15	0	840.2861962	23.5	2.903e-03
3	52	42	1	10	0	840.2803230	32.5	2.970e-03
4	46	45	2	12	1	840.2864710	25.0	3.178e-03
5	37	48	2	20	0	840.2794934	15.0	3.800e-03
6	50	43	1	10	1	840.2779177	29.5	5.375e-03
7	48	44	2	12	0	840.2888763	28.0	5.583e-03
8	35	49	2	20	1	840.2770881	12.0	6.205e-03
9	36	51	1	20	1	840.2896642	11.5	6.371e-03
10	38	50	1	20	0	840.2920695	14.5	8.776e-03





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(exact mass)

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Acquisition method name

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Comment 1

Comment 2

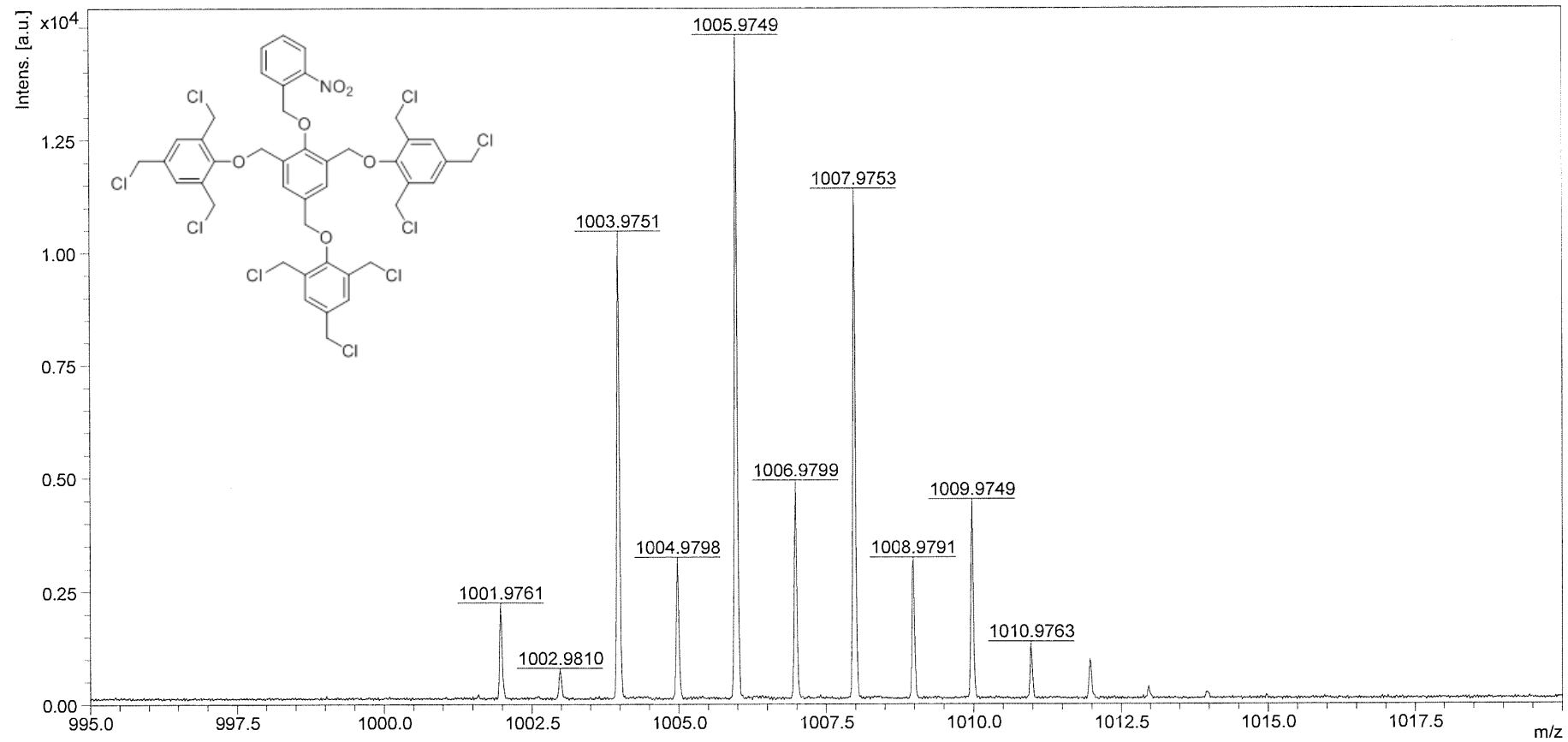
AK-PhD-060 in DCTB+NaTFA

Instrument type: MALDI-TOF BRUKER ultrafleXtreme

Mass spectrometry service

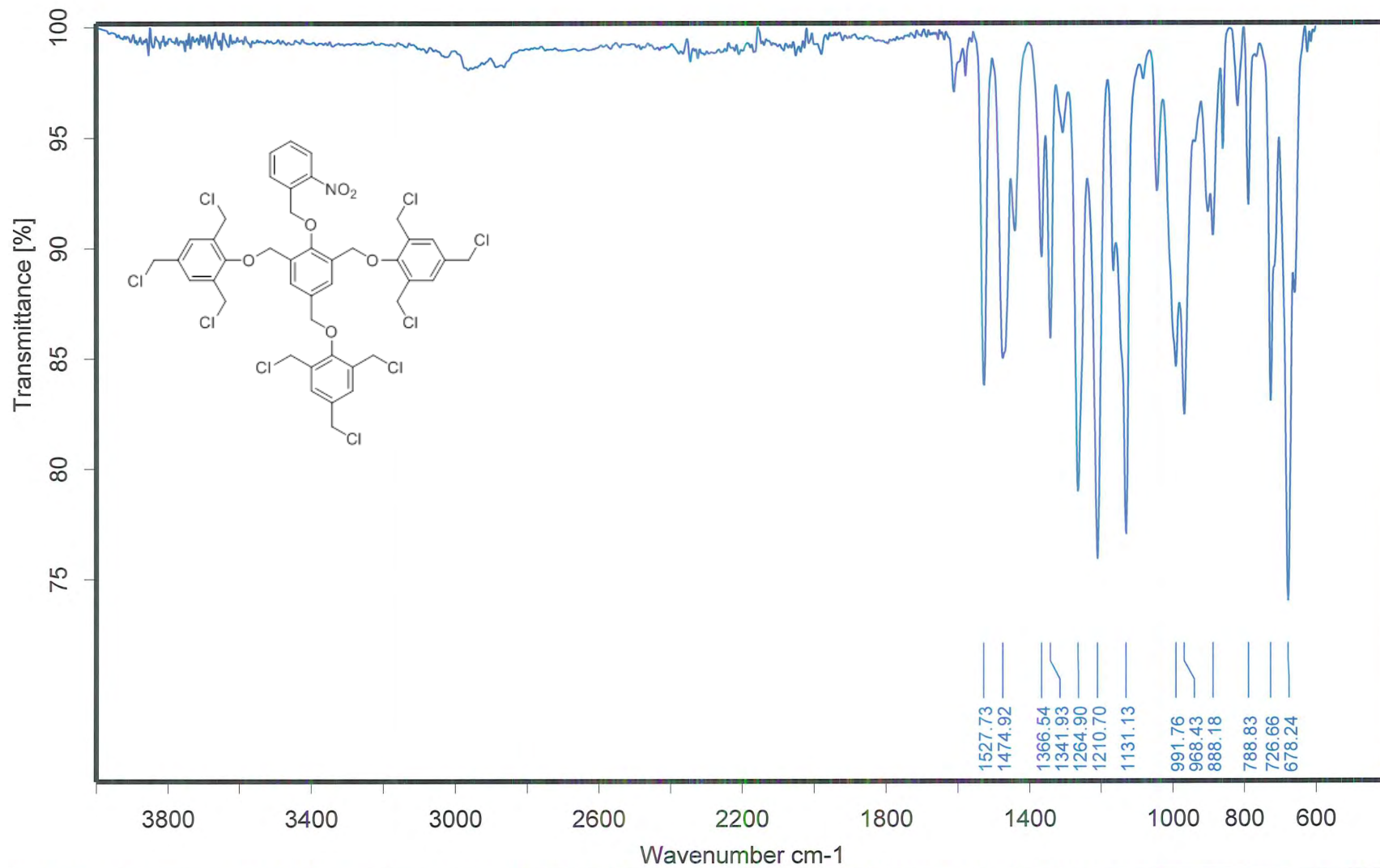
University of Fribourg

Department of Chemistry



Bruker Daltonics flexAnalysis

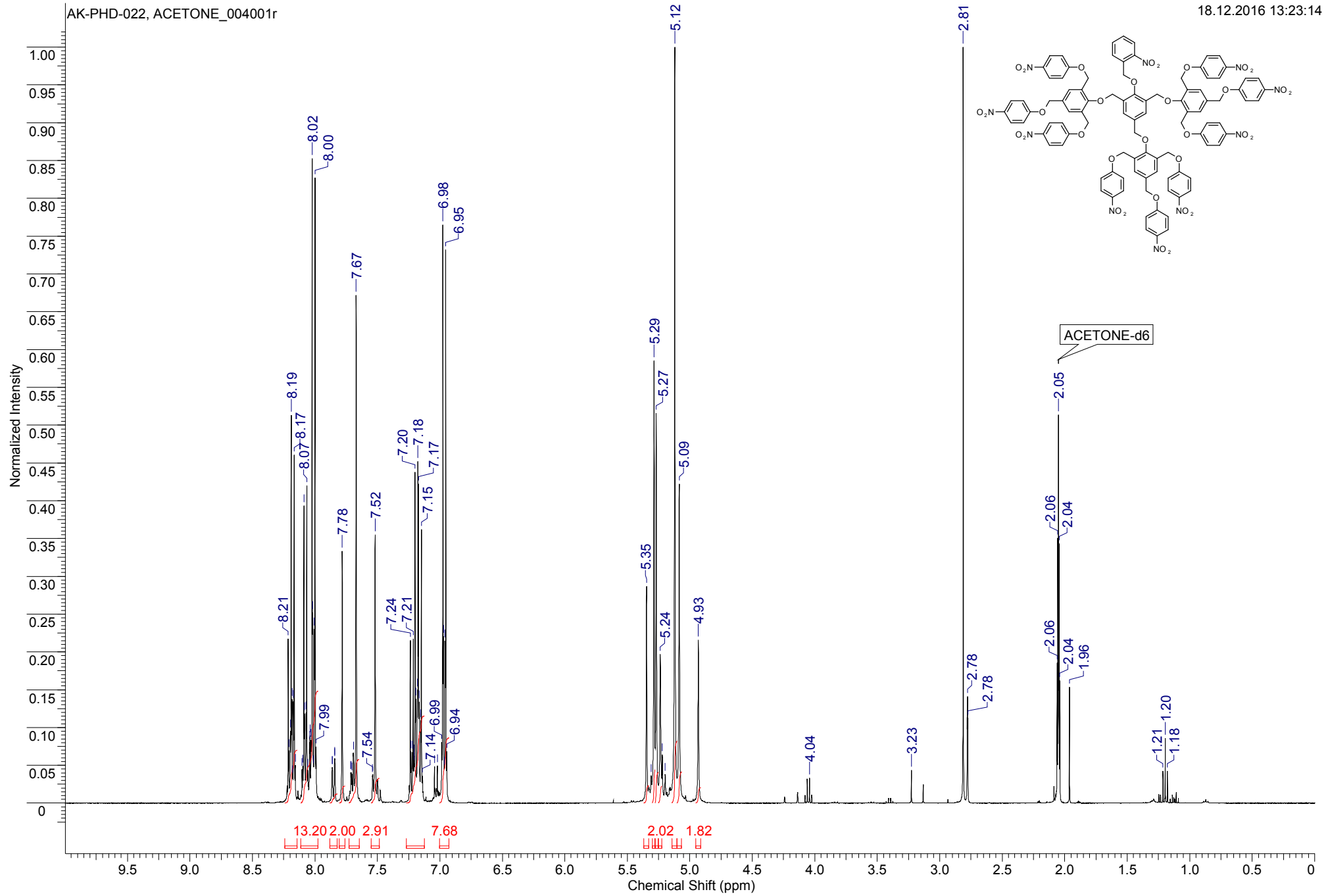
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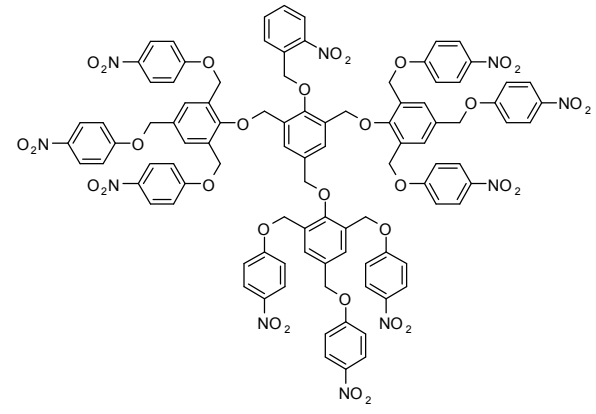
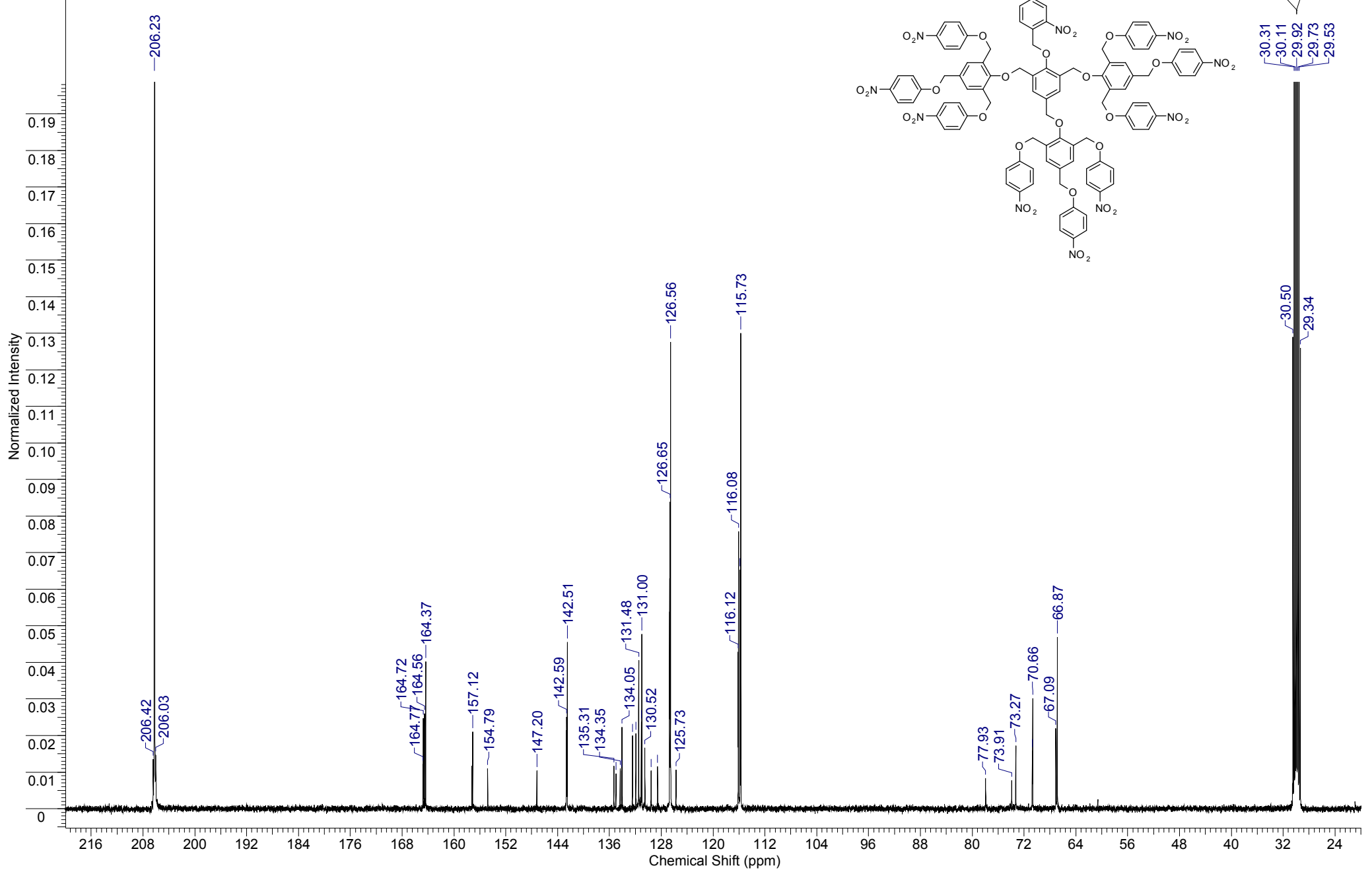


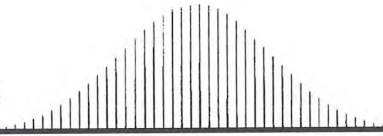
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AK-PhD-060-Cl.2

Date: 19.12.2016, 17:44:17







ESI-MS: AK-Ph0-022

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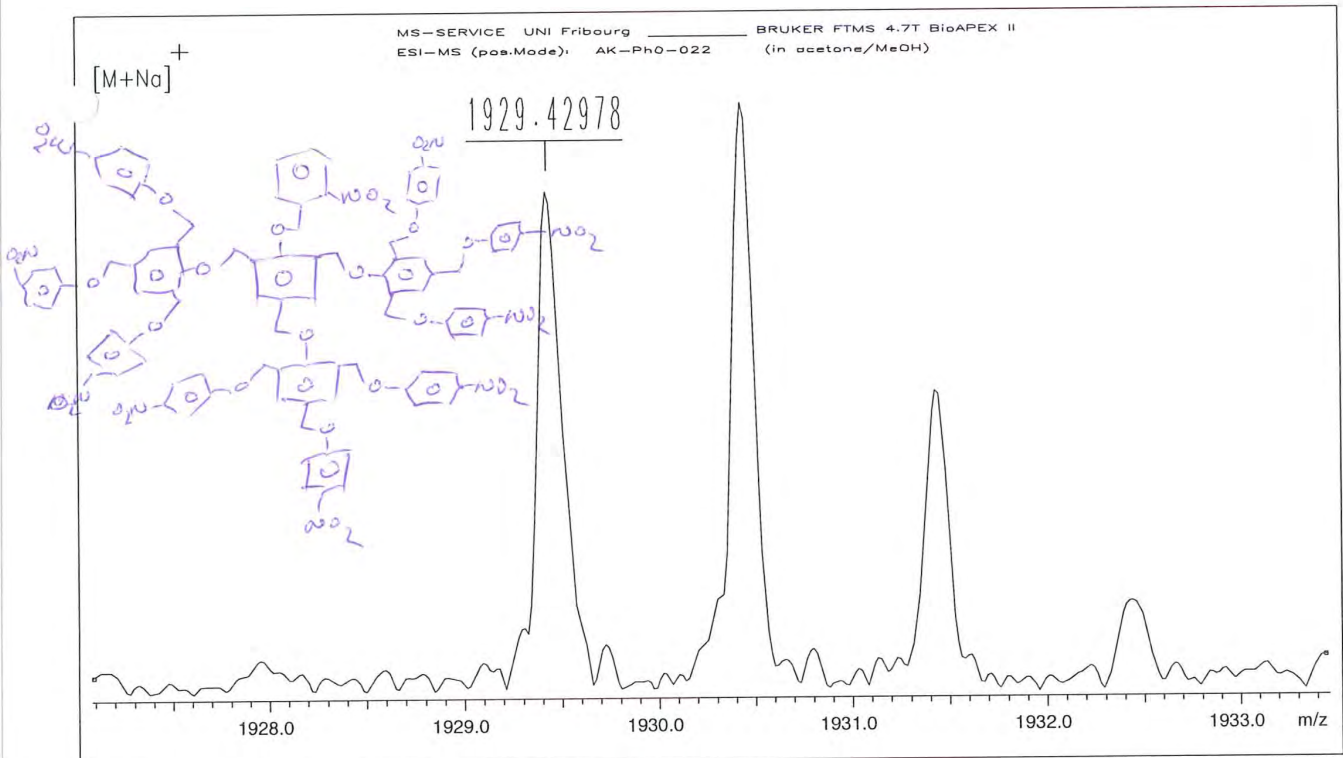
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Charge = +1

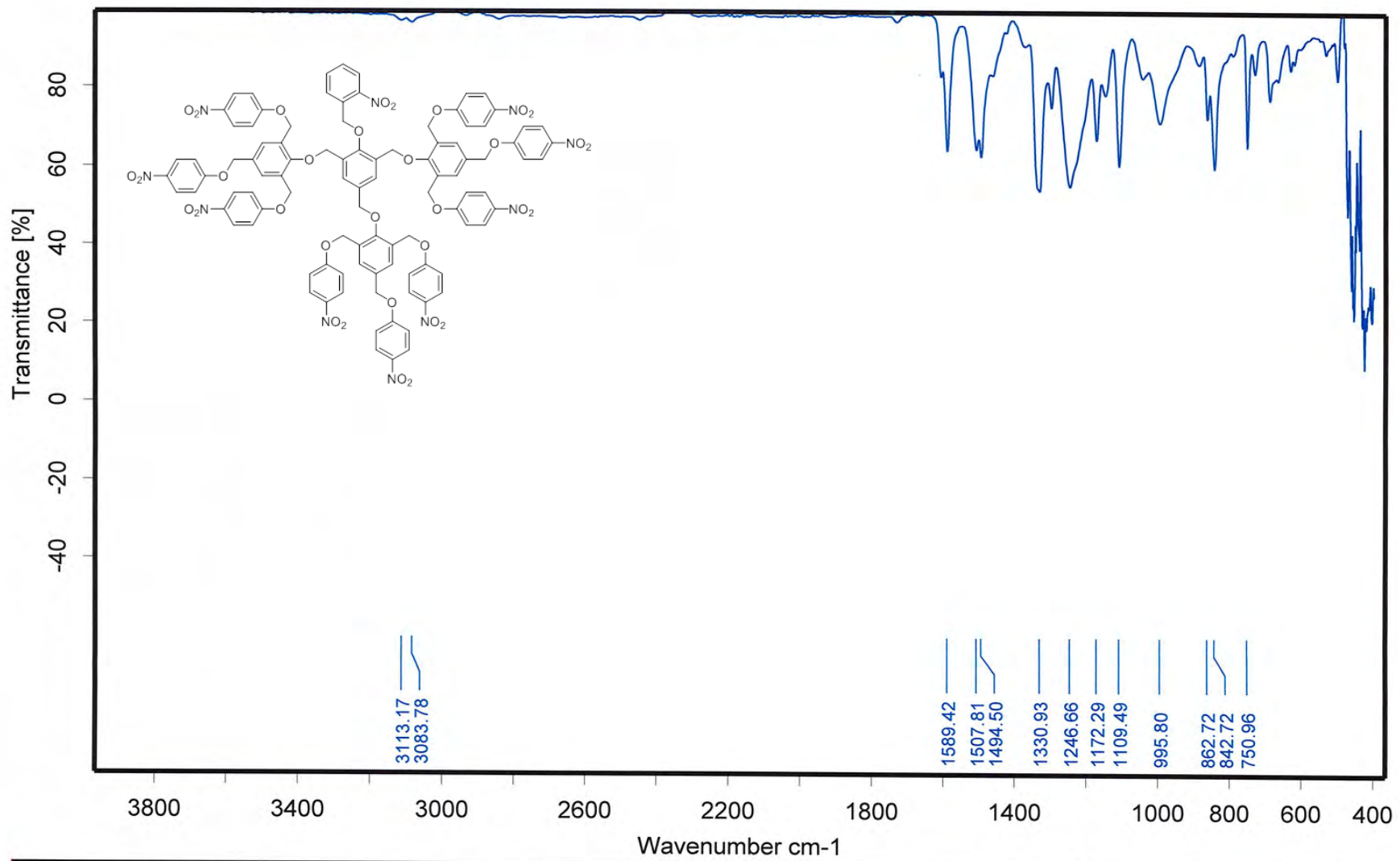
#	C	H	N	O	Na	mass	DBE	error
---	---	---	---	---	----	------	-----	-------

*** Mass Analysis for mass 1929.4297810

1	97	74	10	33	1	1929.4311960	65.5	1.415e-03
2	92	74	12	35	1	1929.4271733	61.5	2.608e-03
3	100	72	11	30	1	1929.4338761	70.0	4.095e-03
4	104	70	10	28	1	1929.4253228	74.5	4.458e-03
5	102	74	8	31	1	1929.4352188	69.5	5.438e-03
6	103	70	12	27	1	1929.4365562	74.5	6.775e-03
7	101	72	9	31	1	1929.4226427	70.0	7.138e-03
8	105	72	9	28	1	1929.4378989	74.0	8.118e-03
9	99	70	12	30	1	1929.4213001	70.5	8.481e-03
10	98	74	8	34	1	1929.4199627	65.5	9.818e-03



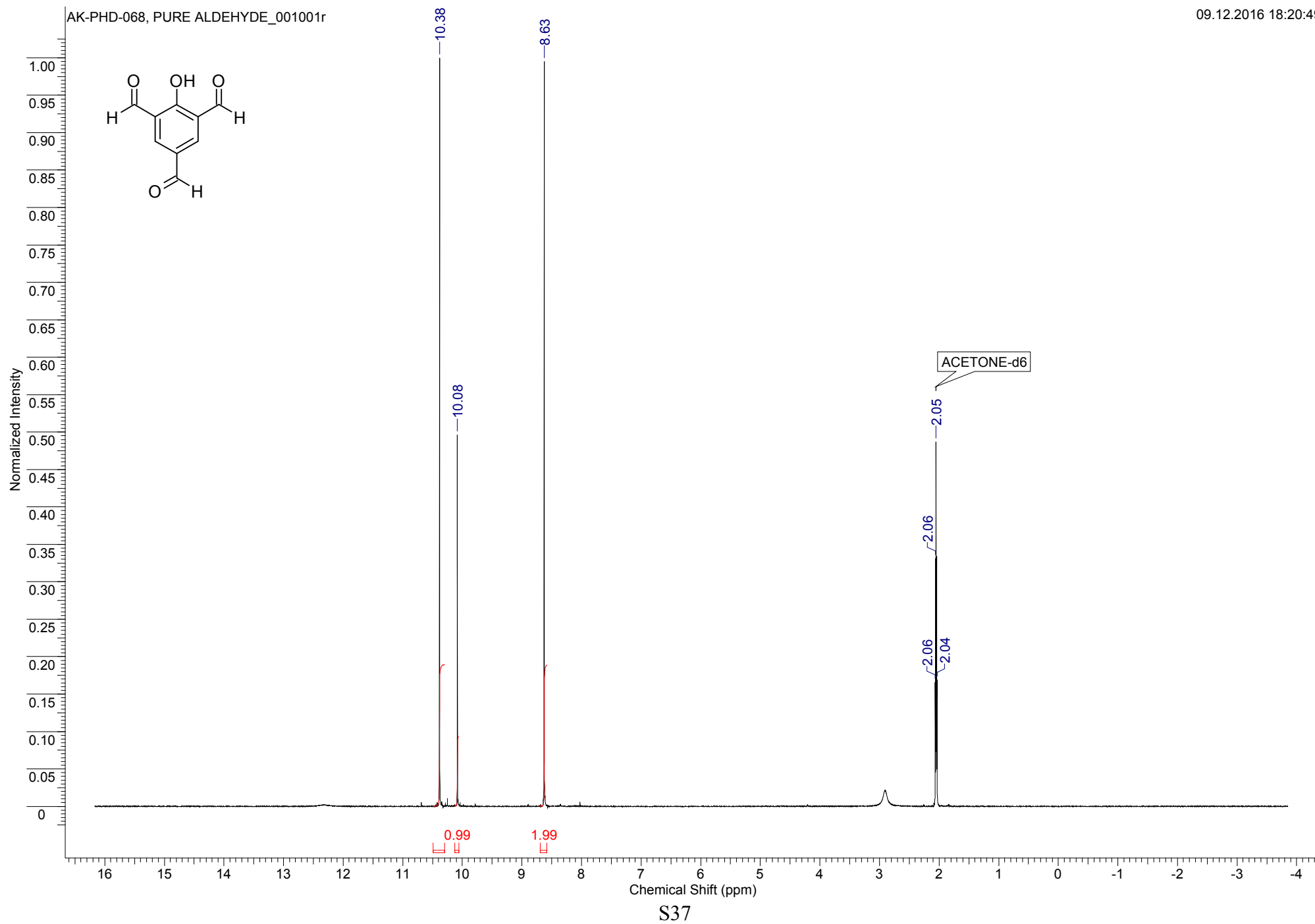
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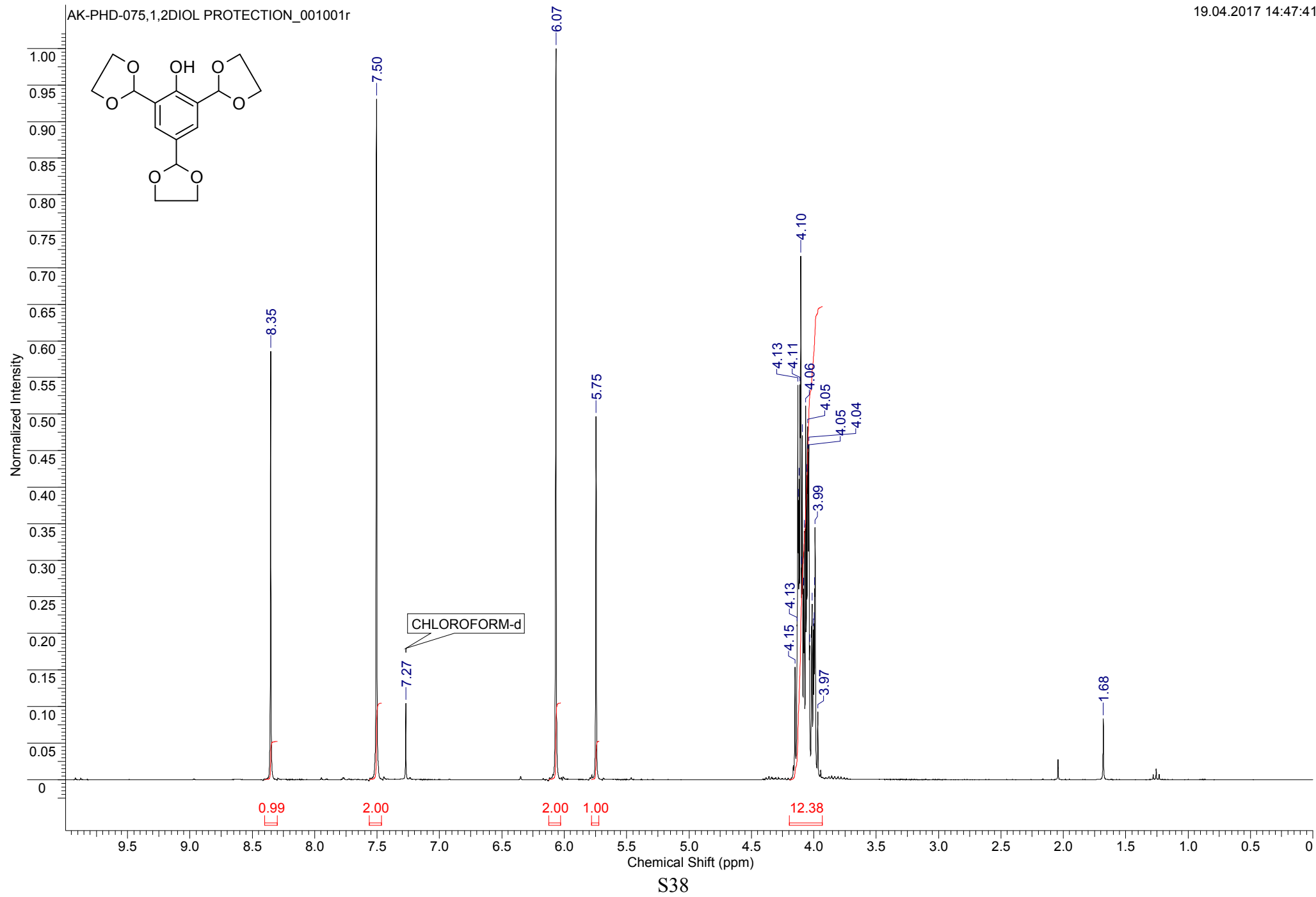


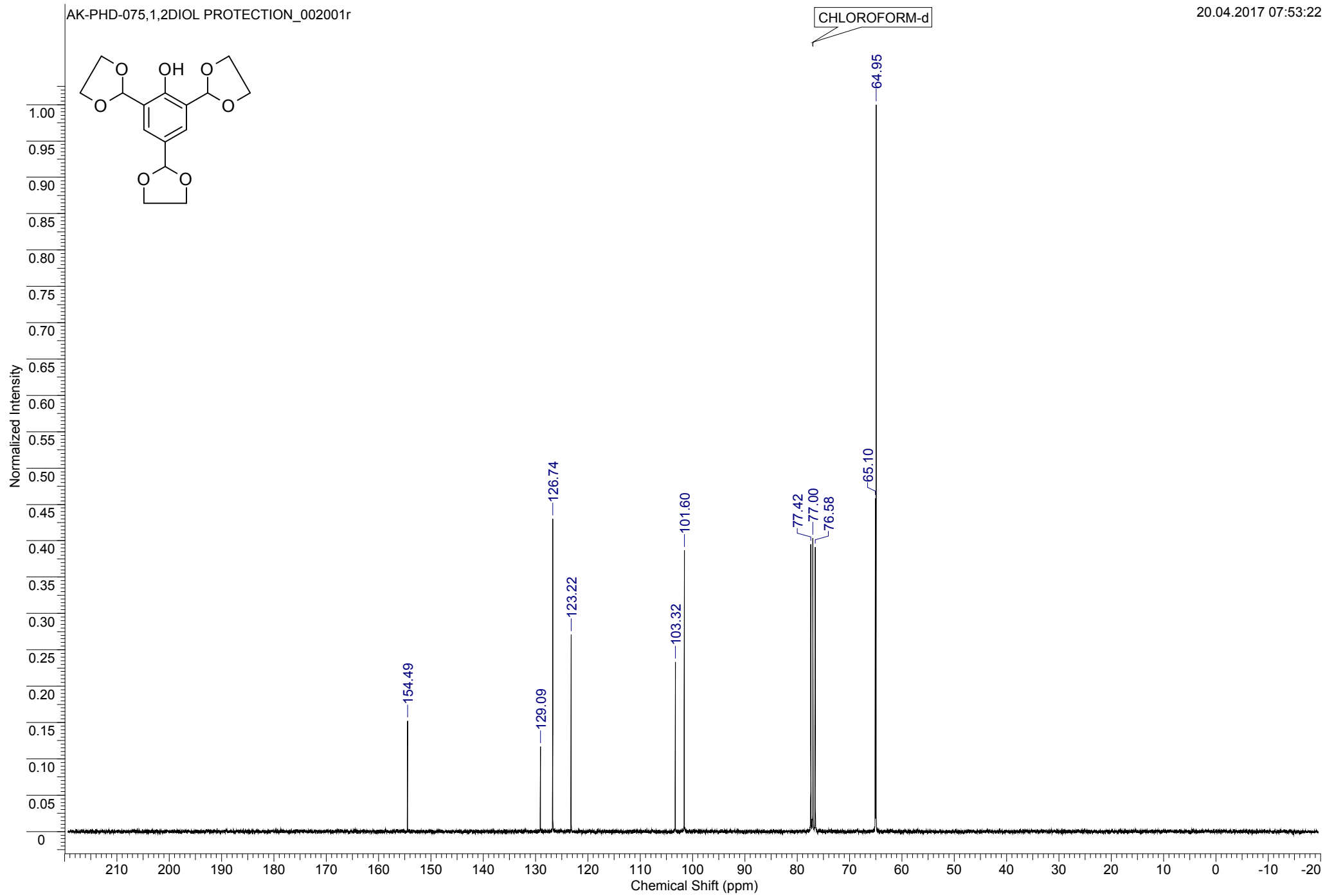
C:\Users\KastraAg

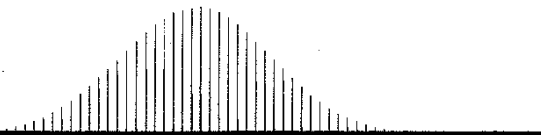
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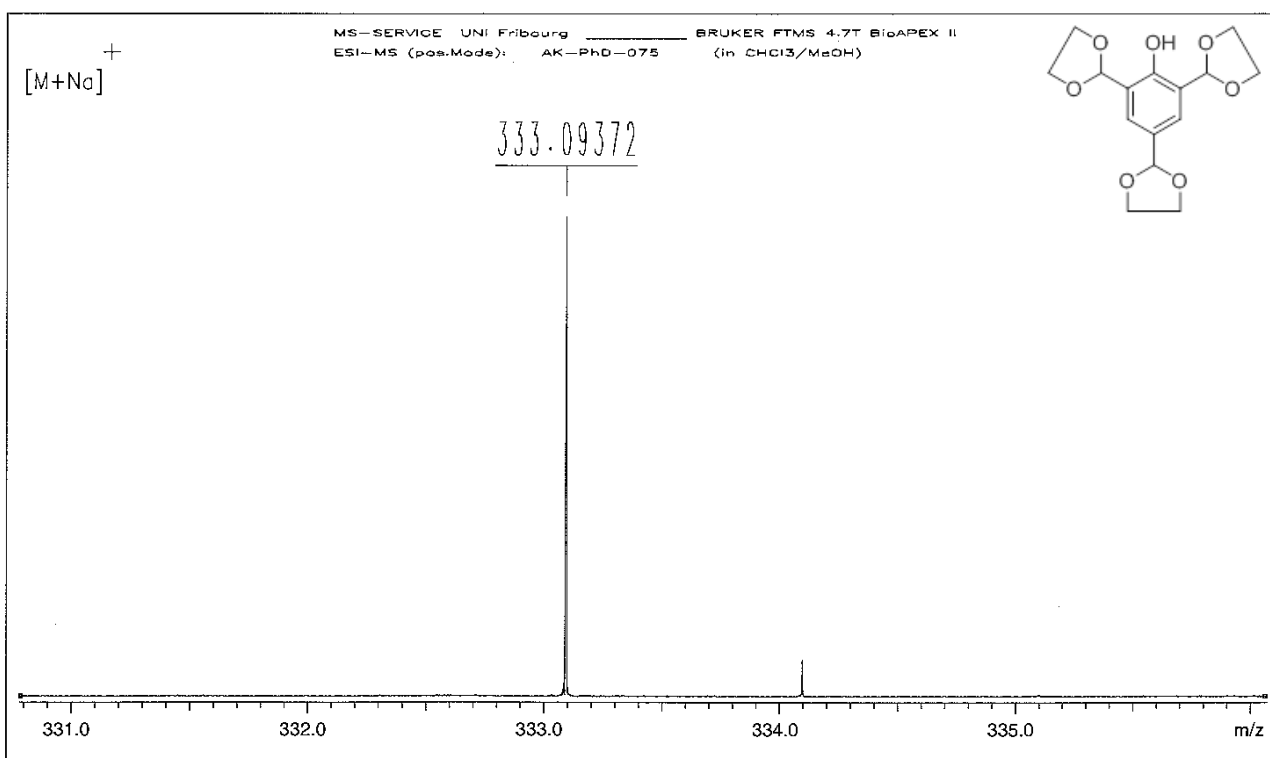
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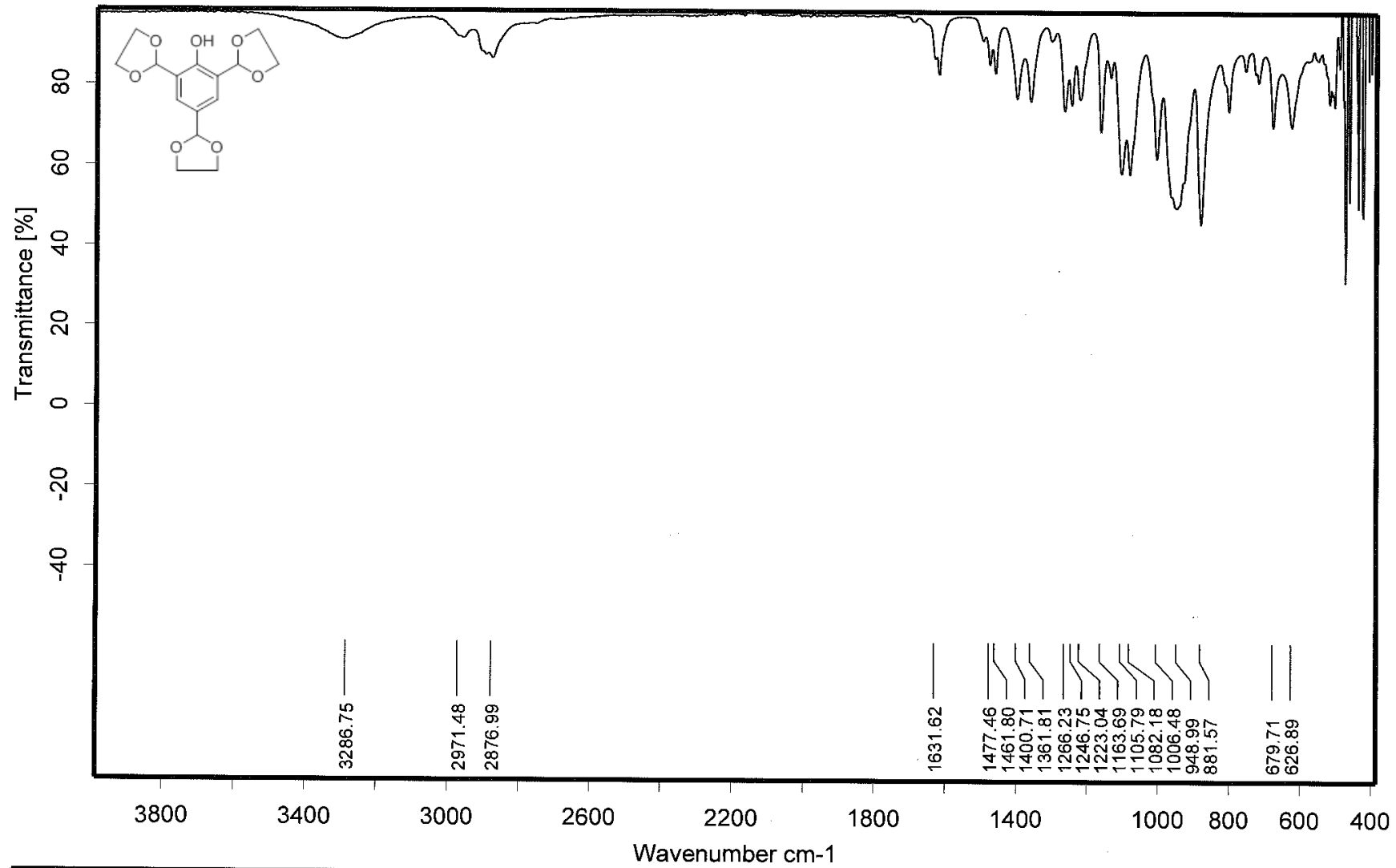
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Charge = +1

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2	24	13	2	0	333.0910061	18.5	2.715e-03
3	17	17	7	0	333.0968793	9.5	3.158e-03
4	22	14	2	1	333.0886008	15.5	5.120e-03
5	13	17	10	0	333.0816232	5.5	1.210e-02
6	11	18	10	1	333.0792179	2.5	1.450e-02
7	19	18	4	1	333.1097302	10.5	1.601e-02
8	20	13	5	0	333.0757499	14.5	1.797e-02
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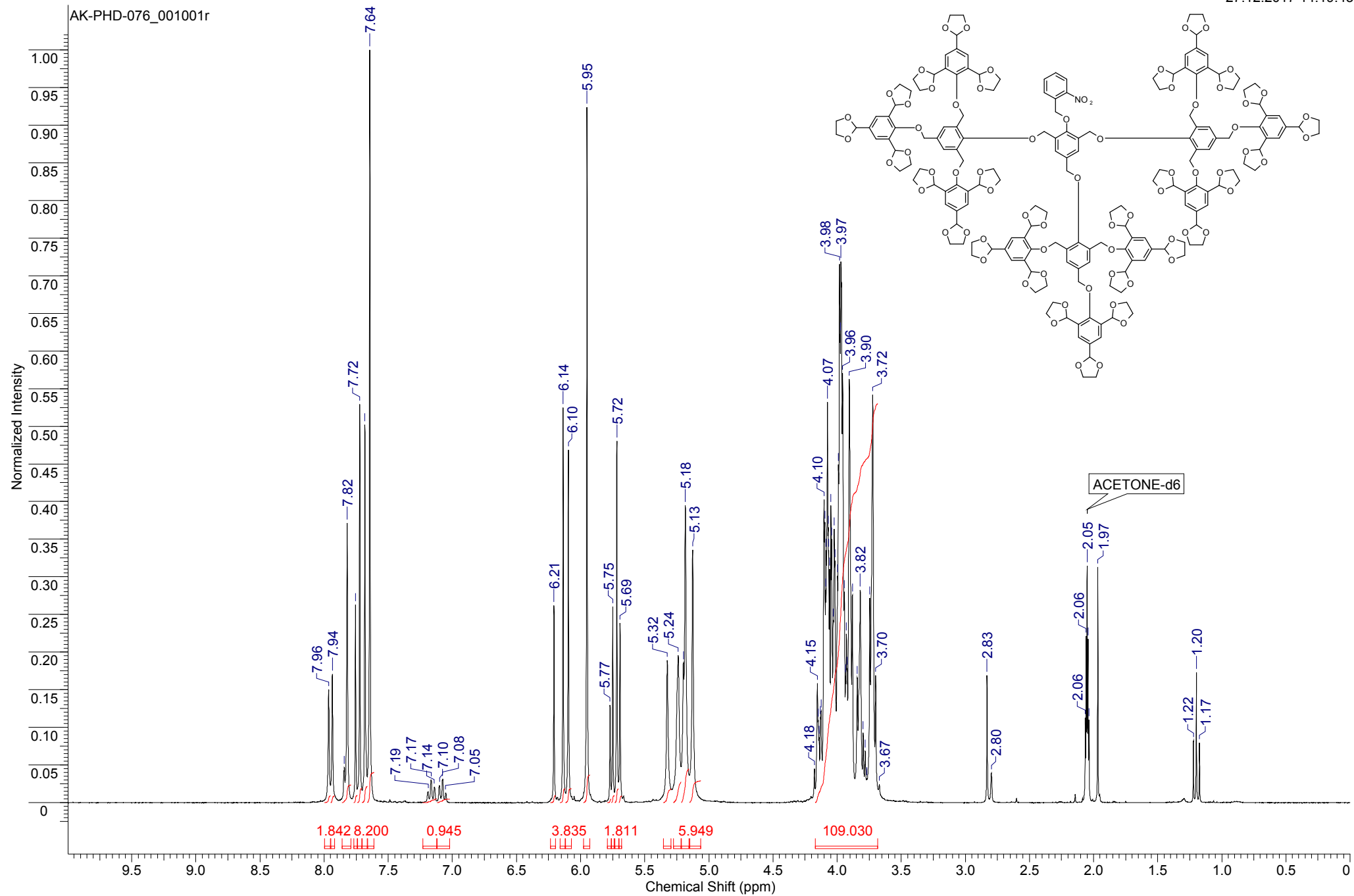


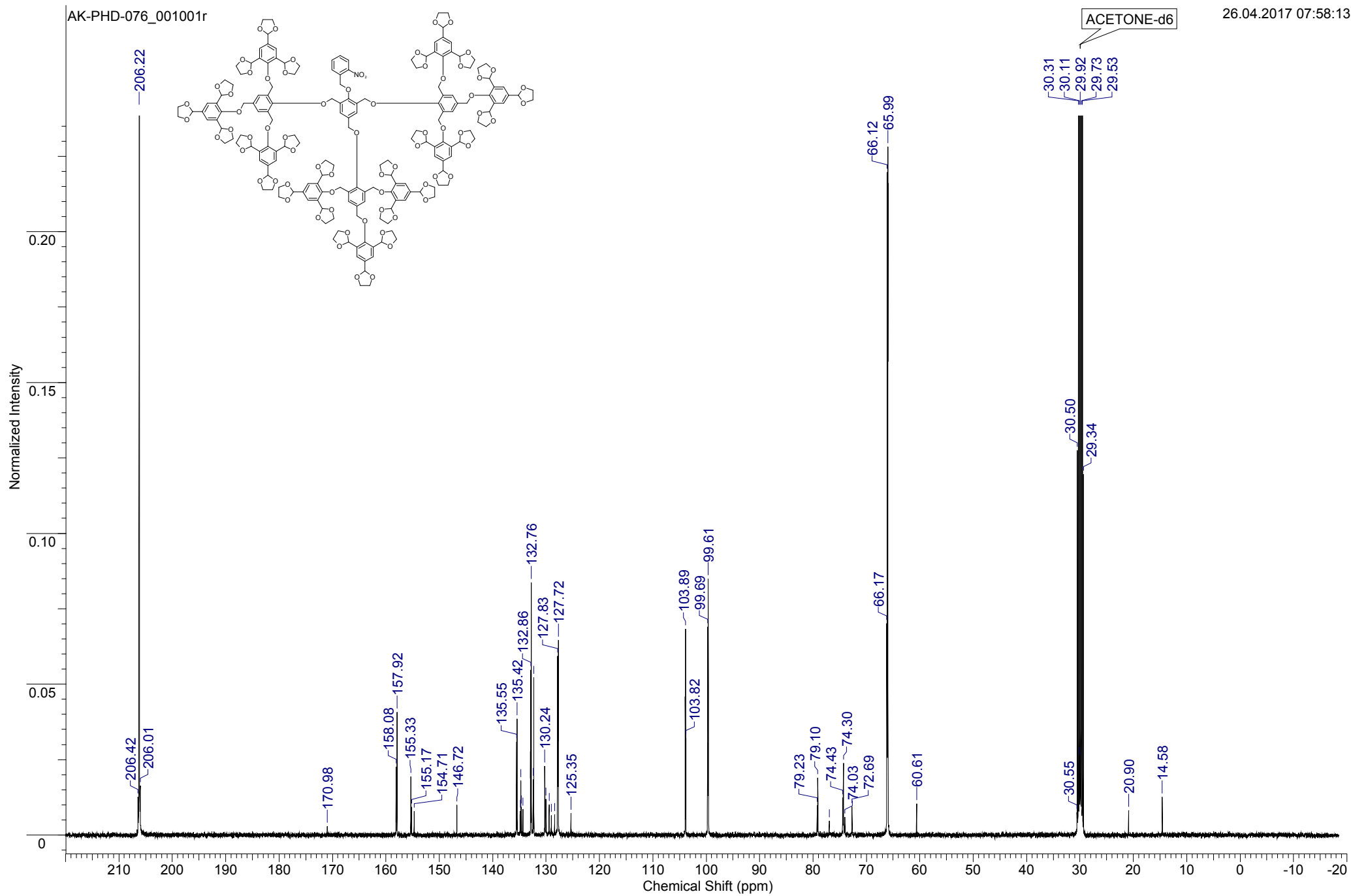


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AK-PhD-075.2

Date: 24.04.2017, 09:58:22





Comment 1

Comment 2

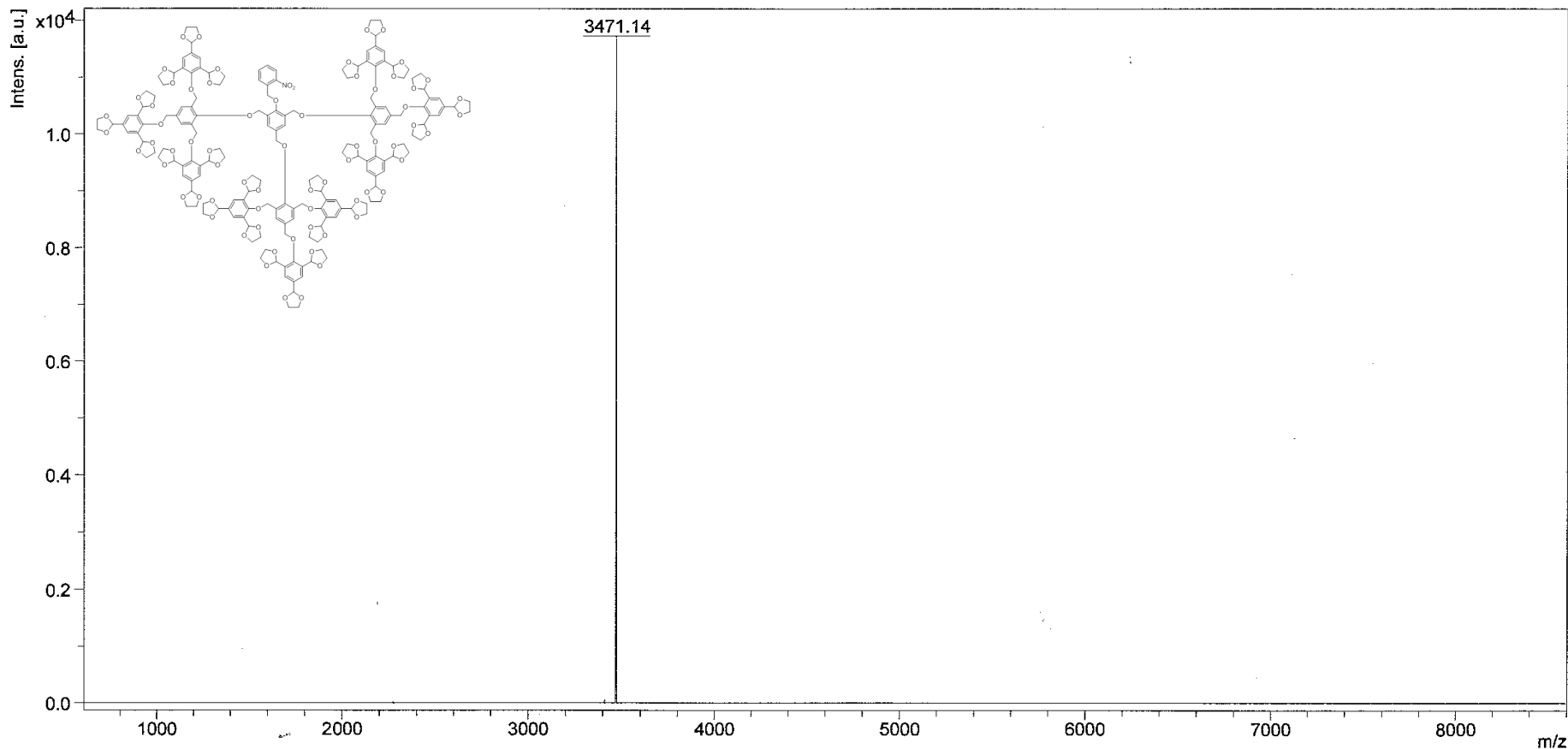
AK-PhD-076 in DCTB+NaTFA

Instrument type: MALDI-TOF BRUKER ultrafleXtreme

Mass spectrometry service

University of Fribourg

Department of Chemistry



Comment 1

Comment 2

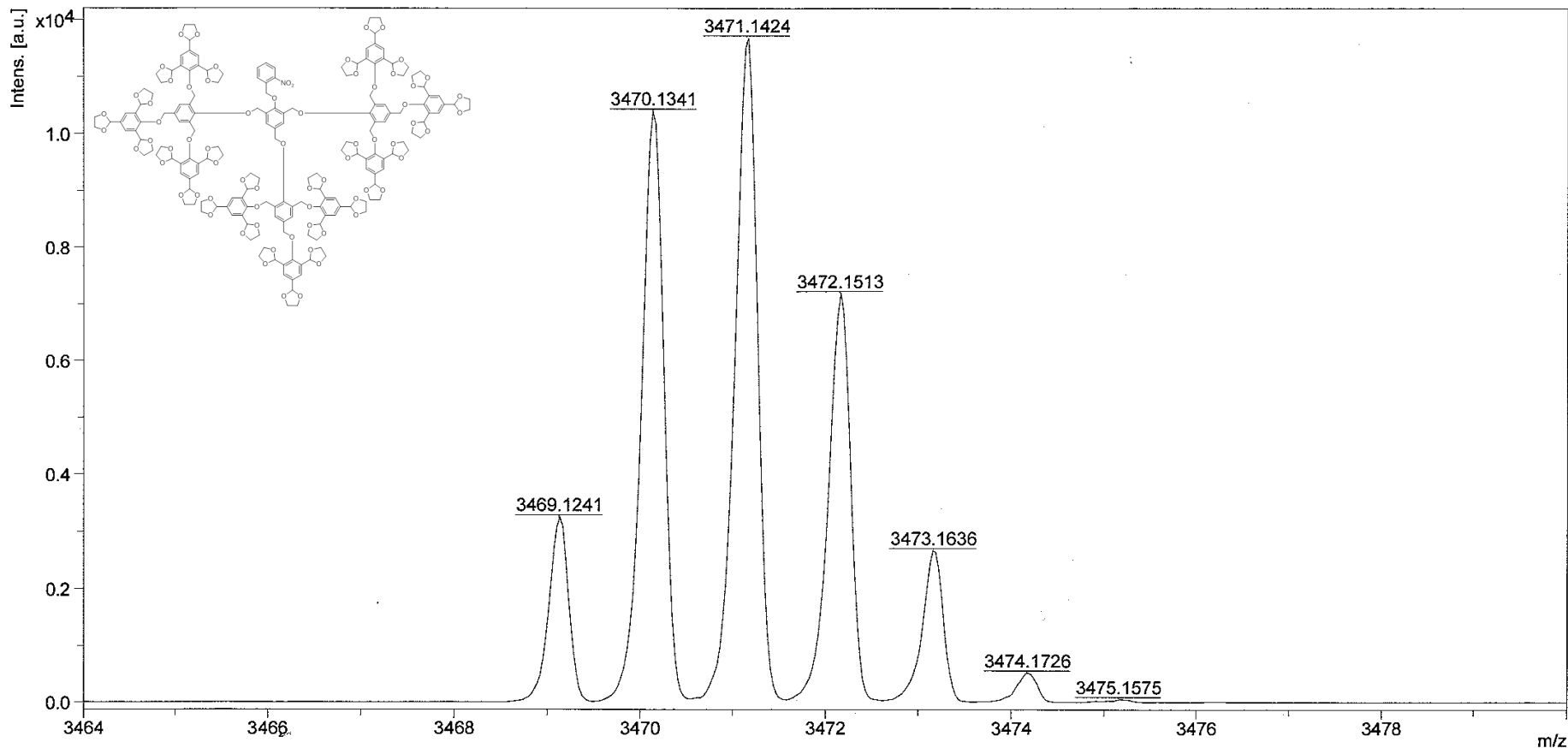
AK-PhD-076 in DCTB+NaTFA

Instrument type: MALDI-TOF BRUKER ultrafleXtreme

Mass spectrometry service

University of Fribourg

Department of Chemistry



Comment 1

Comment 2

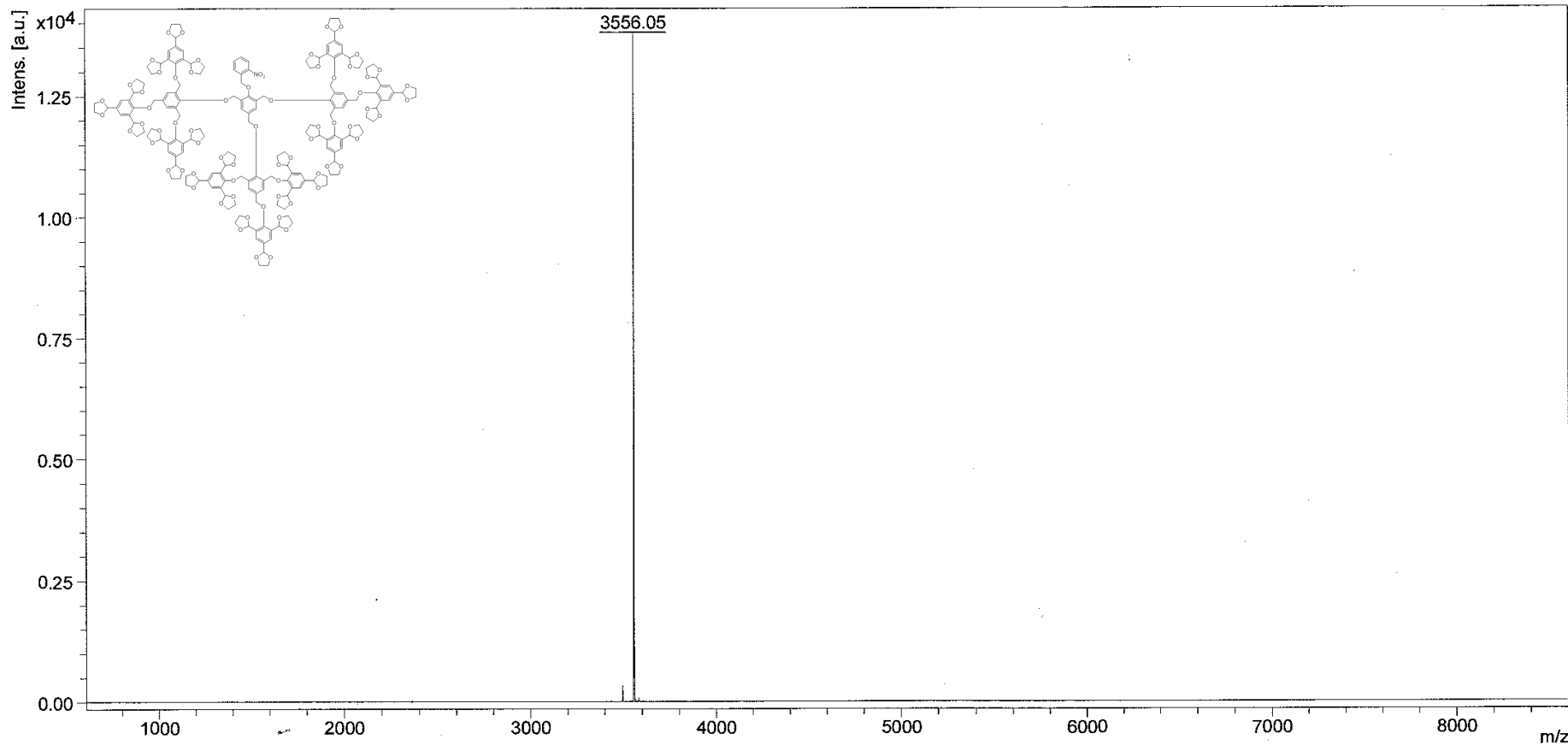
AK-PhD-076 in DCTB+AgTFA

Instrument type: MALDI-TOF BRUKER ultrafleXtreme

Mass spectrometry service

University of Fribourg

Department of Chemistry



Comment 1

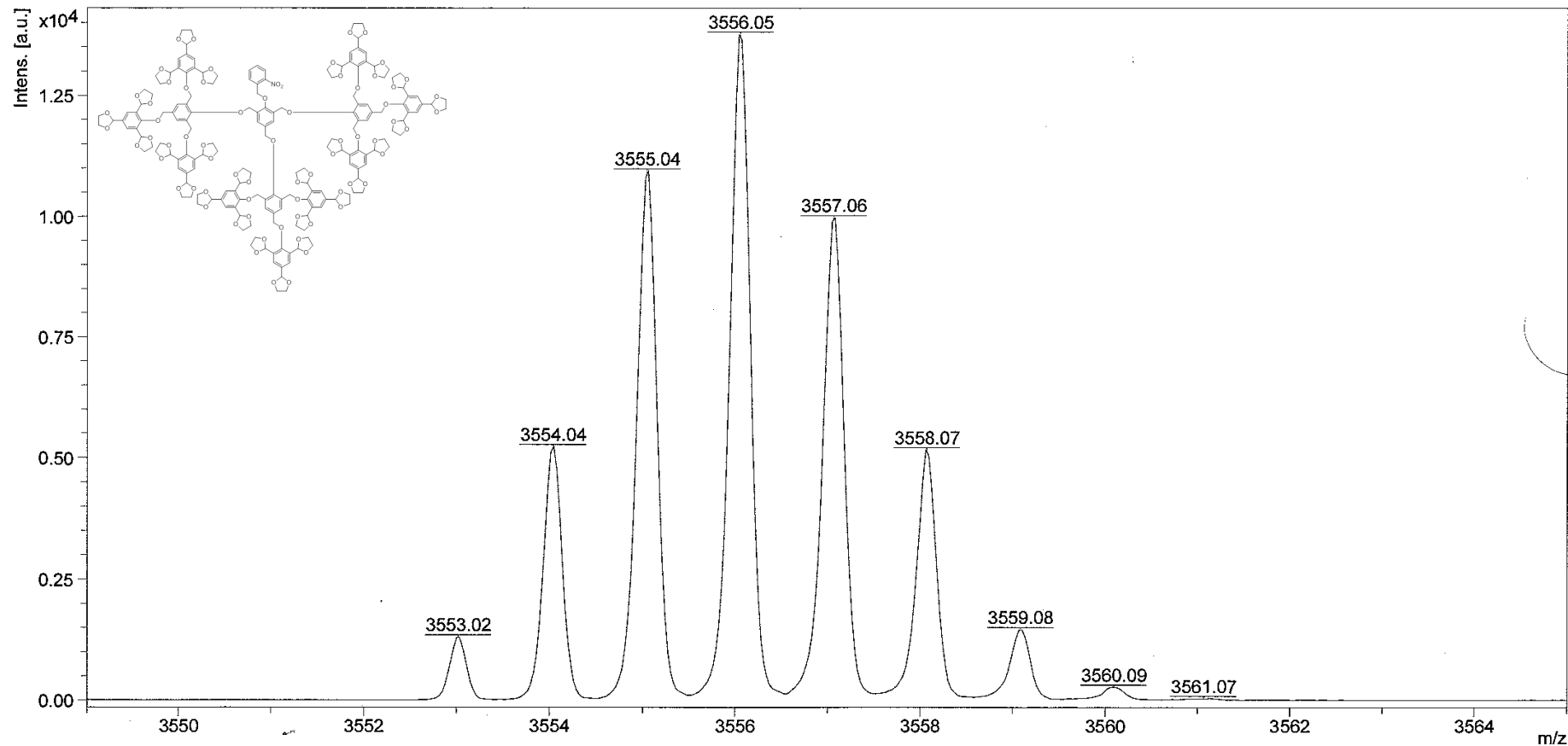
Comment 2 **AK-PhD-076 in DCTB+AgTFA**

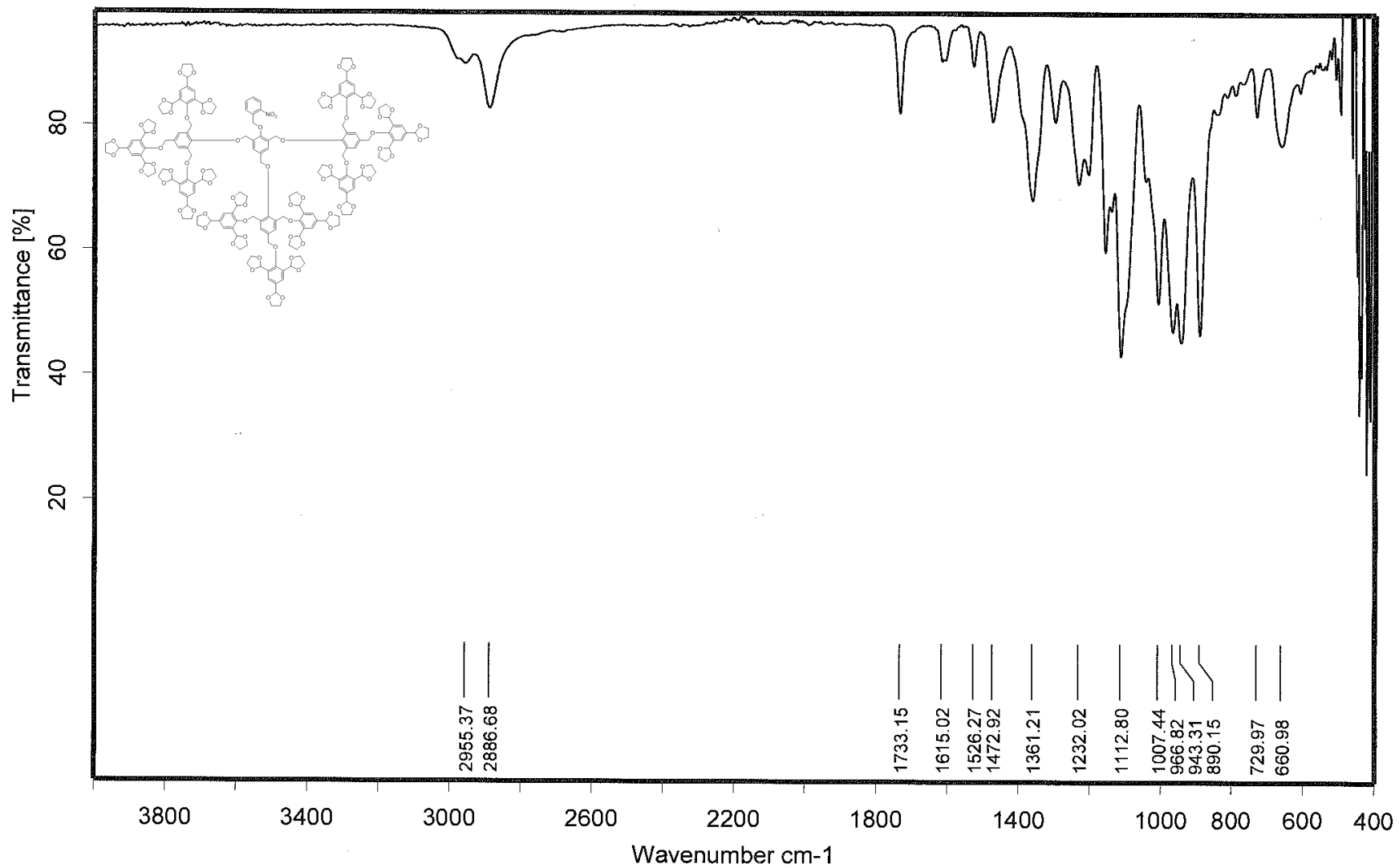
Instrument type: MALDI-TOF BRUKER ultrafleXtreme

Mass spectrometry service

University of Fribourg

Department of Chemistry



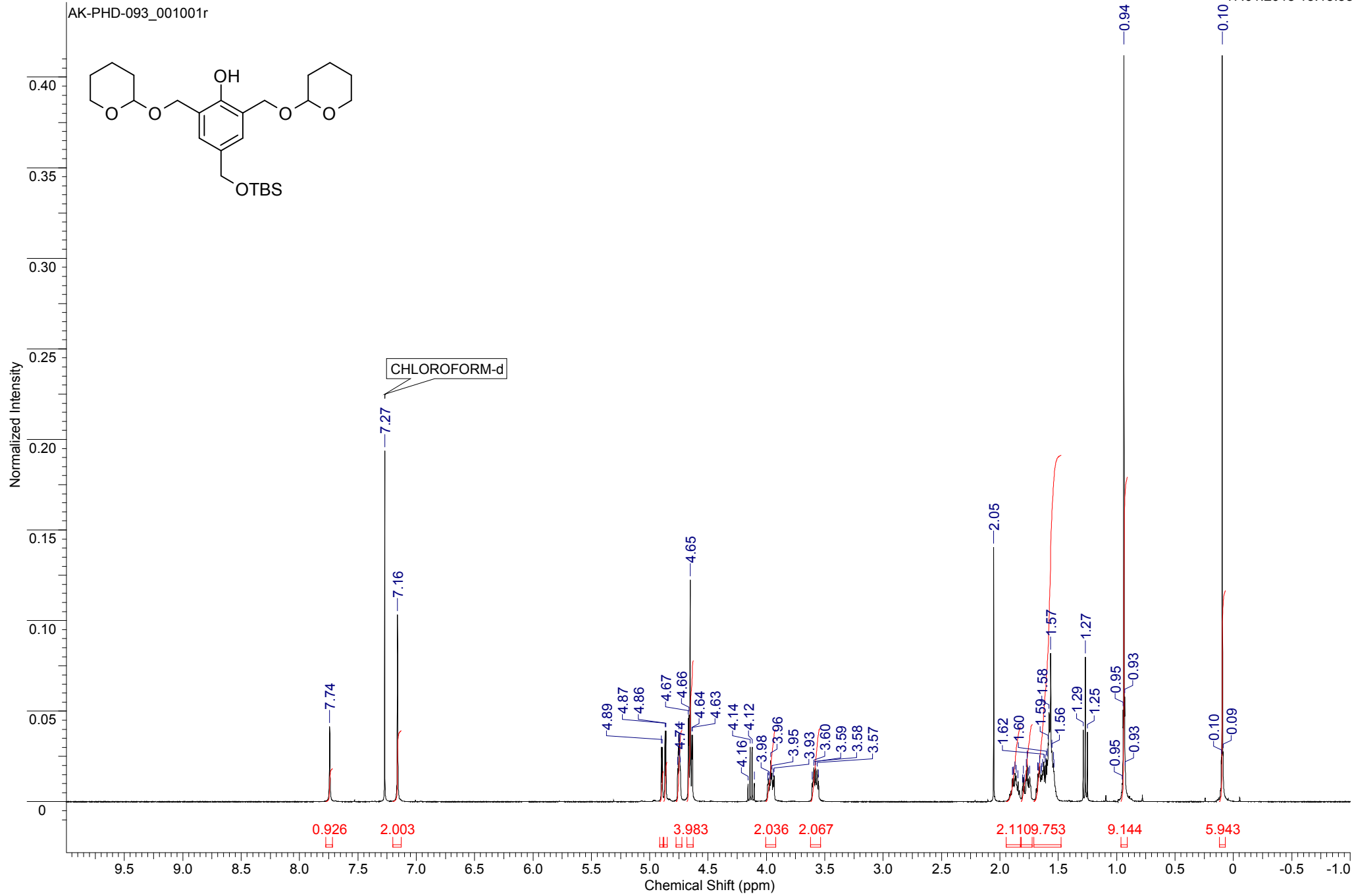
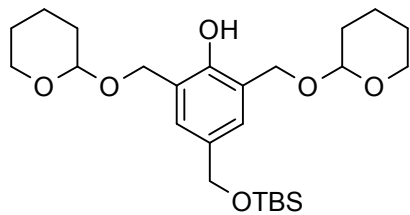


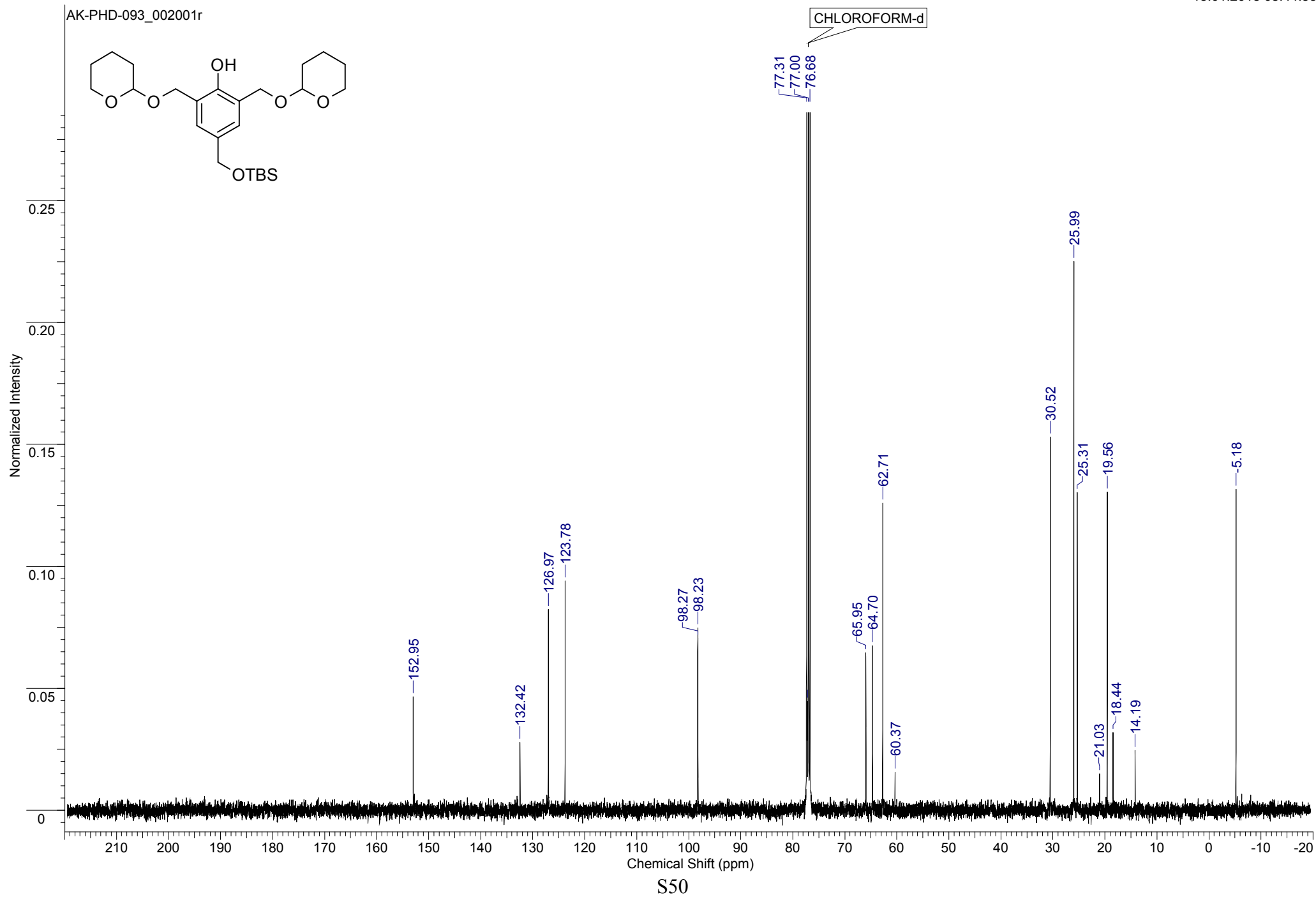
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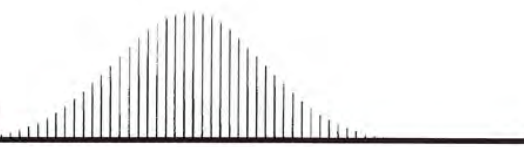
AK-PhD-076.1

Date: 26.04.2017, 08:22:00

AK-PHD-093_001001r







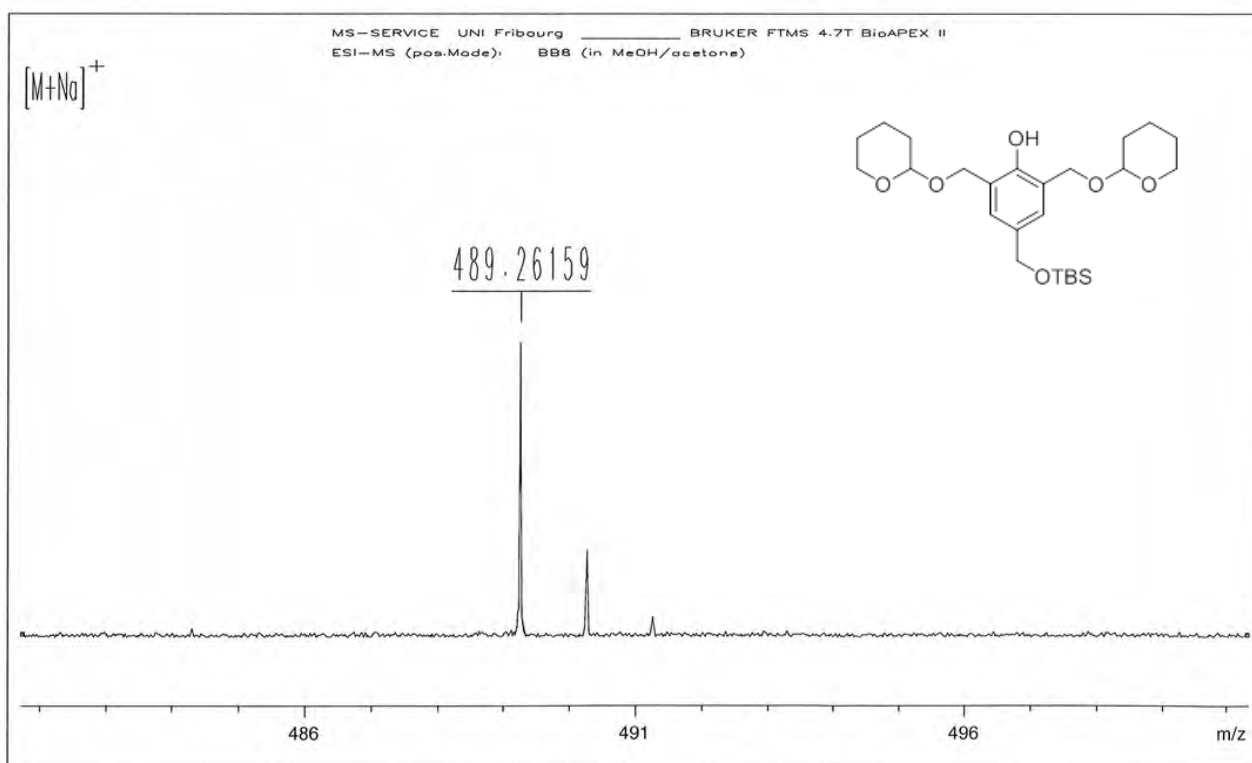
ESI-MS: BB8

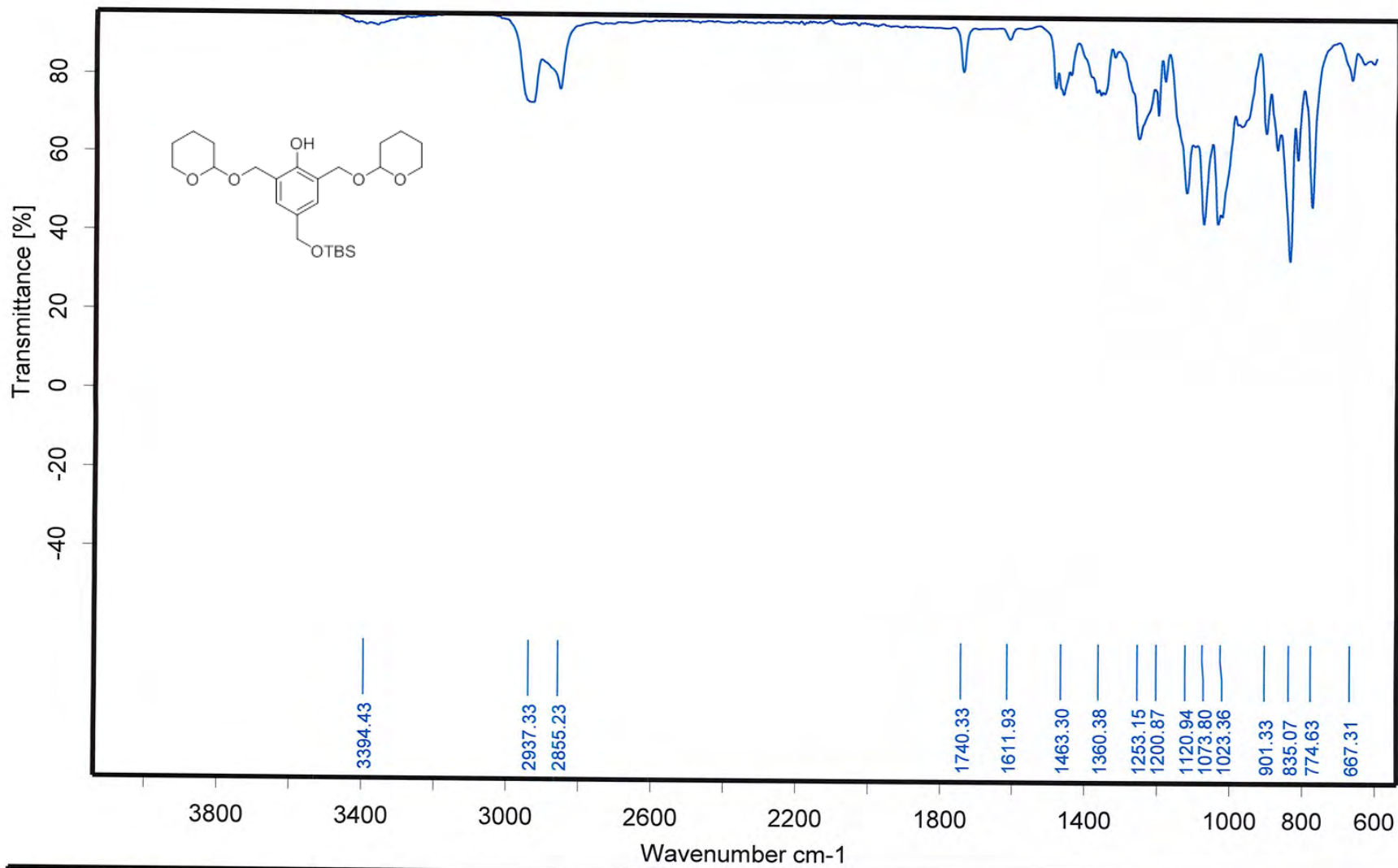
XMASS Mass Analysis for /Data/UNI_FR/KAST3758_ESI/1/pdata/1/massanal.res:
XMASS Mass Analysis Constraints

Ion mass = 489.2615910

Charge = +1

#	C	H	O	Si	Na	mass	DBE	error
*** Mass Analysis for mass 489.2615910								
1	25	42	6	1	1	489.2642867	5.5	2.696e-03
2	27	41	6	1	0	489.2666920	8.5	5.101e-03
3	27	37	8	0	0	489.2482946	9.5	1.330e-02
4	25	38	8	0	1	489.2458893	6.5	1.570e-02
5	26	42	7	0	1	489.2822748	5.5	2.068e-02
6	22	46	8	1	1	489.2854161	0.5	2.383e-02
7	24	45	8	1	0	489.2878214	3.5	2.623e-02
8	26	37	7	1	0	489.2303065	9.5	3.128e-02
9	24	38	7	1	1	489.2279012	6.5	3.369e-02
10	26	46	5	1	1	489.3006722	4.5	3.908e-02

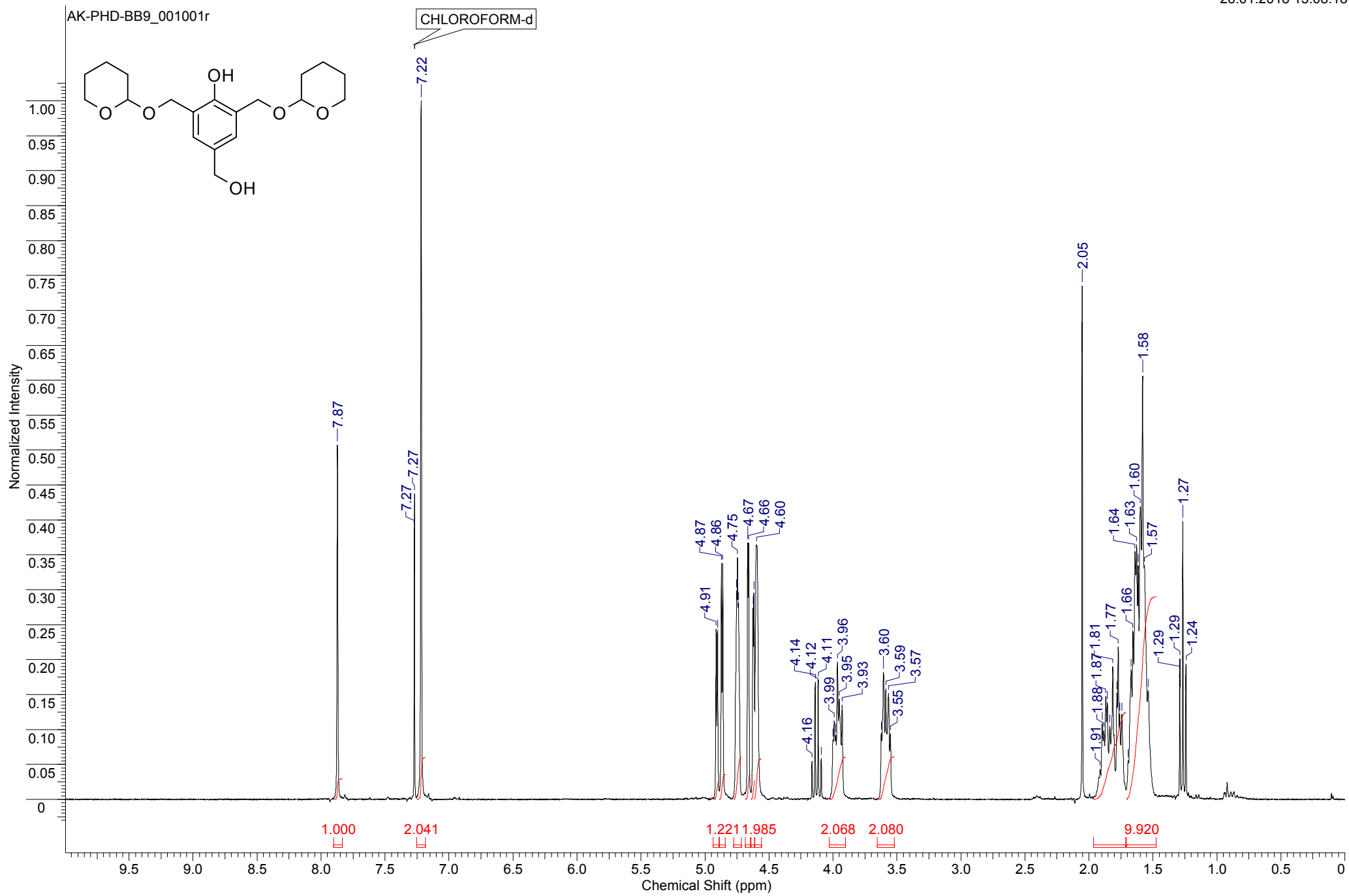


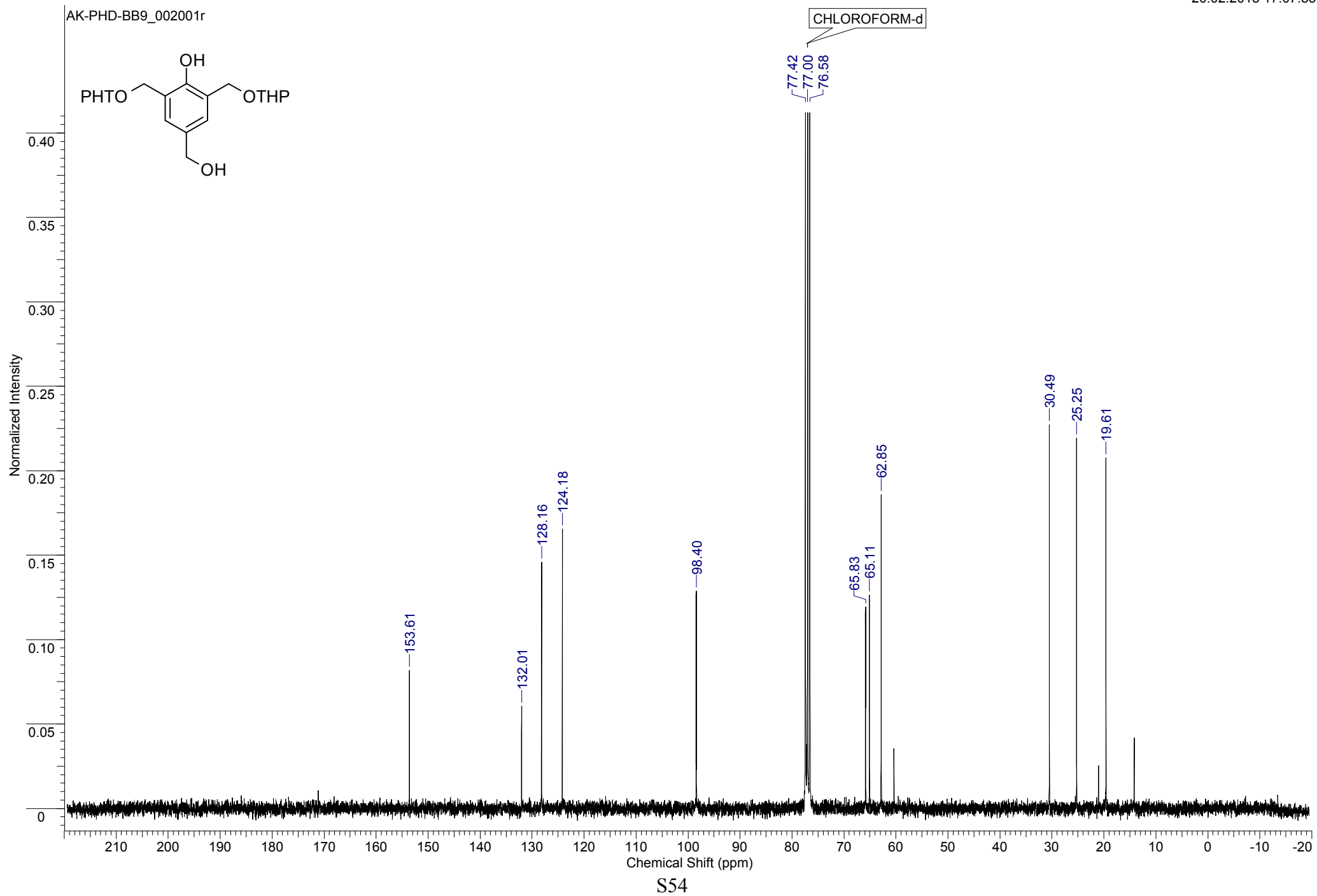


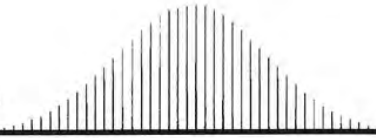
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AK-PhD-BB8.0

Date: 25.01.2018, 13:24:24







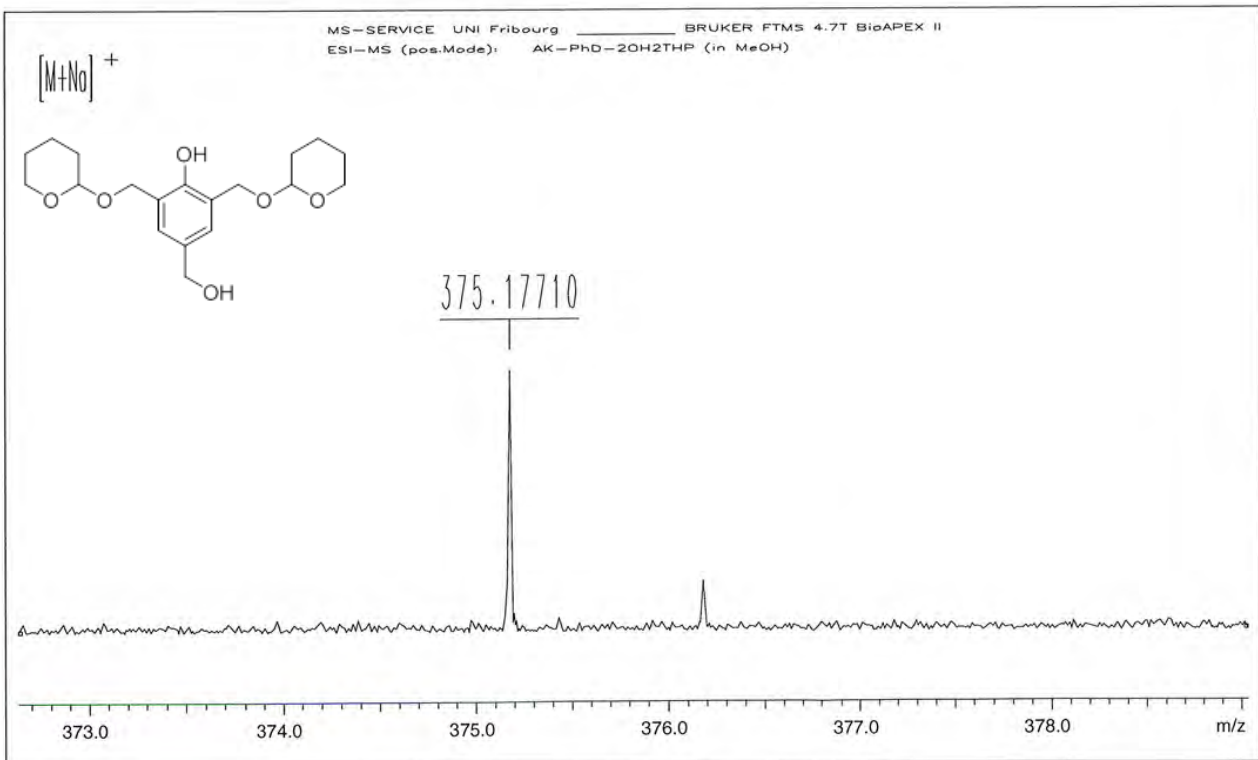
ESI-MS: AK-PhD-2OH2THP

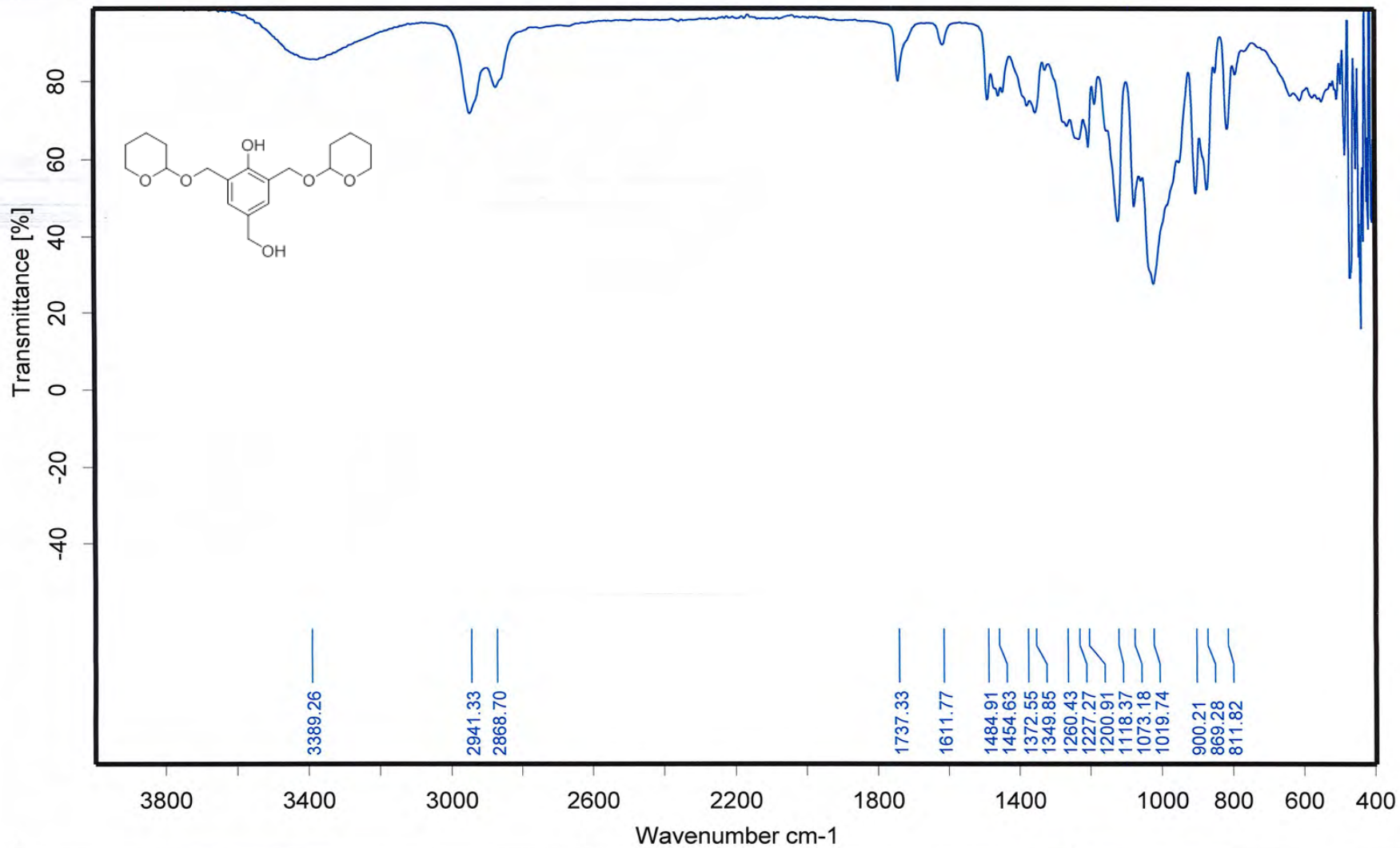
XMASS Mass Analysis for /Data/UNI_FR/KAST3862_ESI/1/pdata/1/massanal.res:
XMASS Mass Analysis Constraints

Ion mass = 375.1771040

Charge = +1

#	C	H	O	Na	mass	DBE	error
*** Mass Analysis for mass 375.1771040							
1	19	28	6	1	375.1778097	5.5	7.057e-04
2	21	27	6	0	375.1802150	8.5	3.111e-03
3	17	27	9	0	375.1649589	4.5	1.215e-02
4	15	28	9	1	375.1625536	1.5	1.455e-02
5	23	28	3	1	375.1930659	9.5	1.596e-02
6	24	23	4	0	375.1590856	13.5	1.802e-02
7	25	27	3	0	375.1954712	12.5	1.837e-02
8	22	24	4	1	375.1566803	10.5	2.042e-02
9	20	23	7	0	375.1438295	9.5	3.327e-02
10	18	24	7	1	375.1414242	6.5	3.568e-02



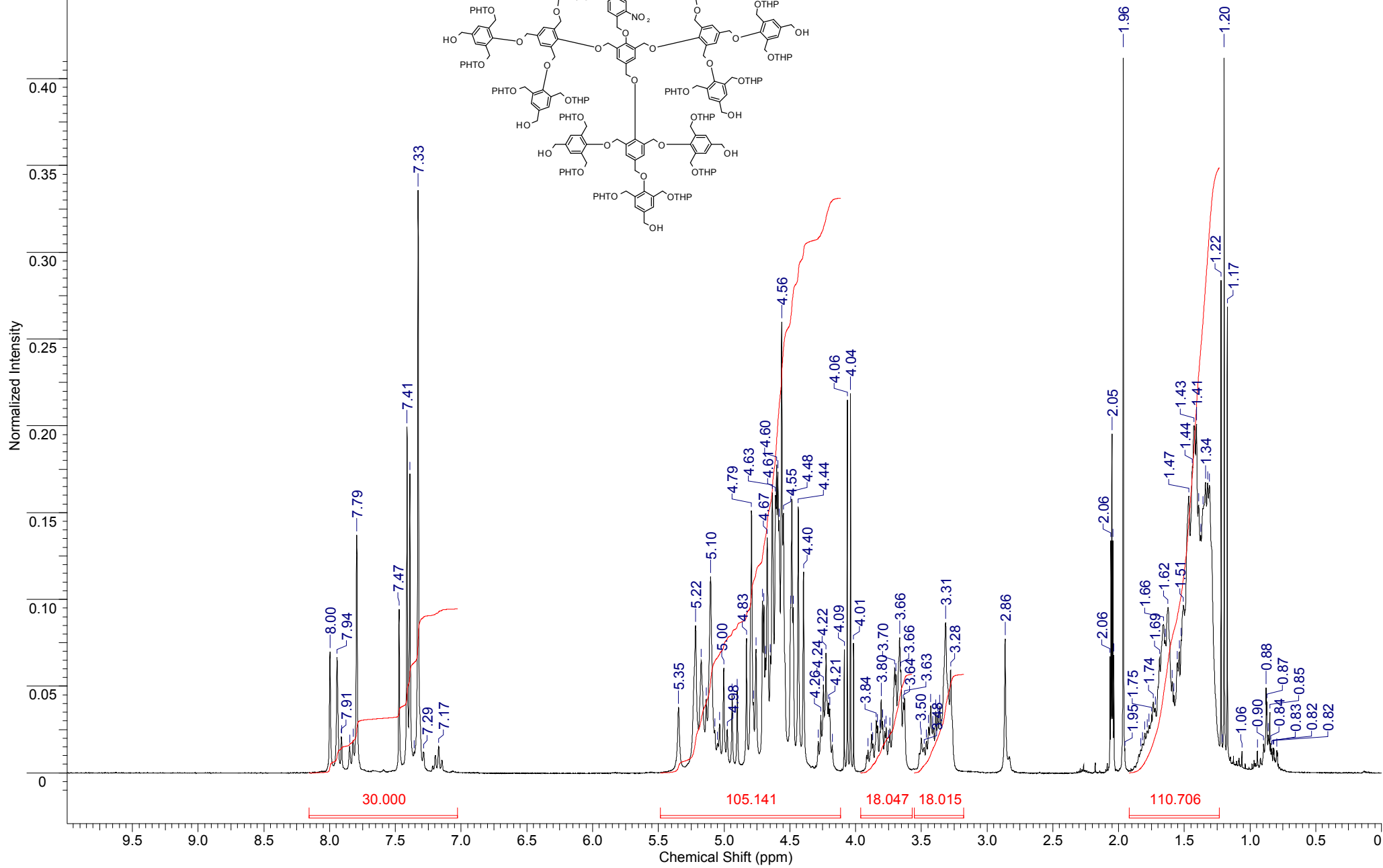
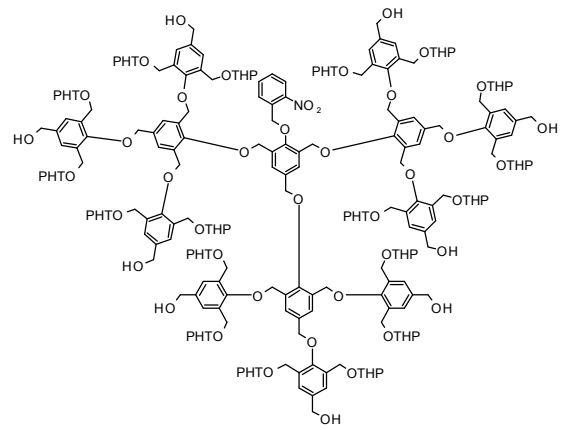


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AK-PhD-2OH2THP.0

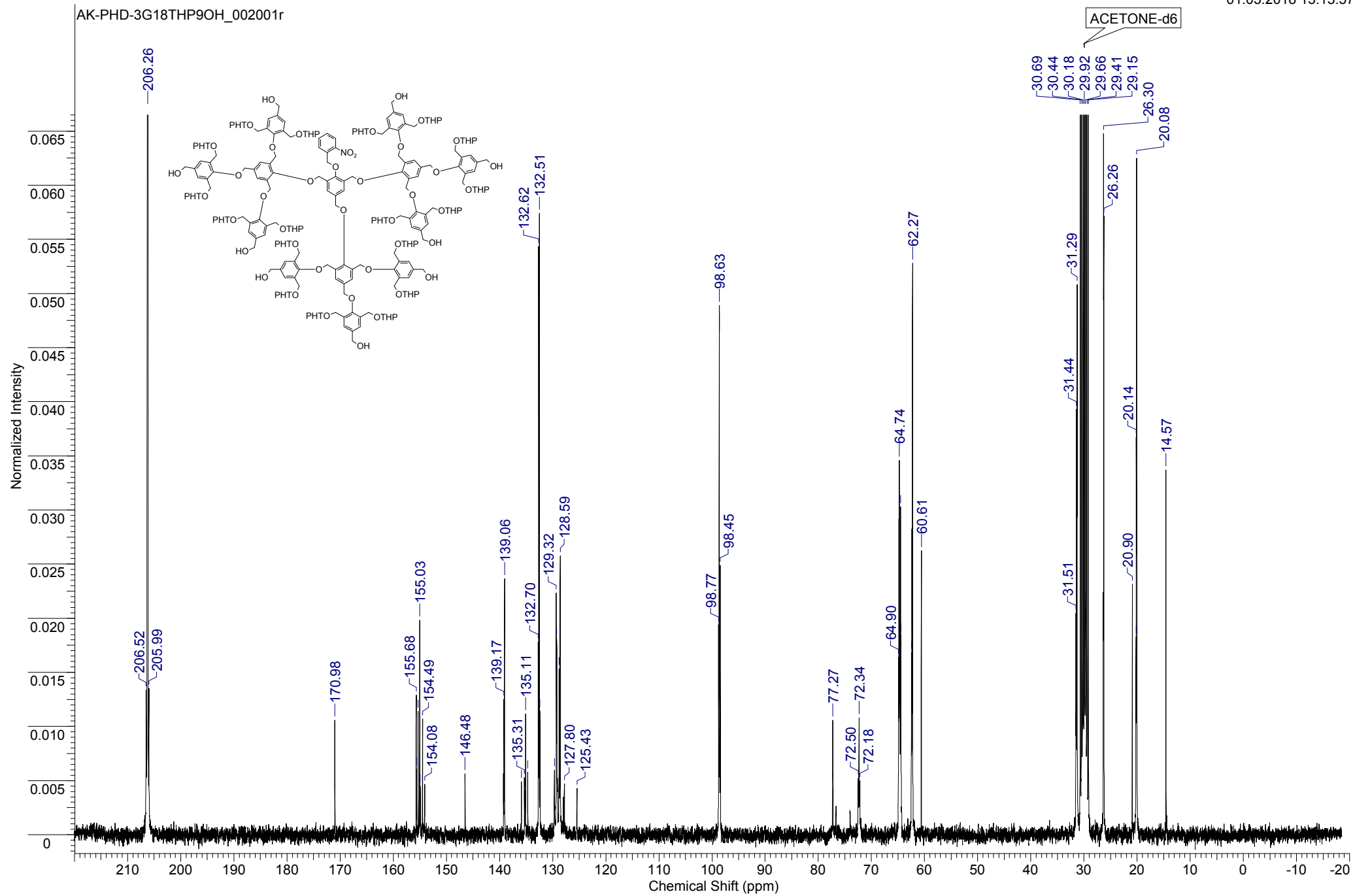
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AK-PHD-3G18THP9OH_001001r

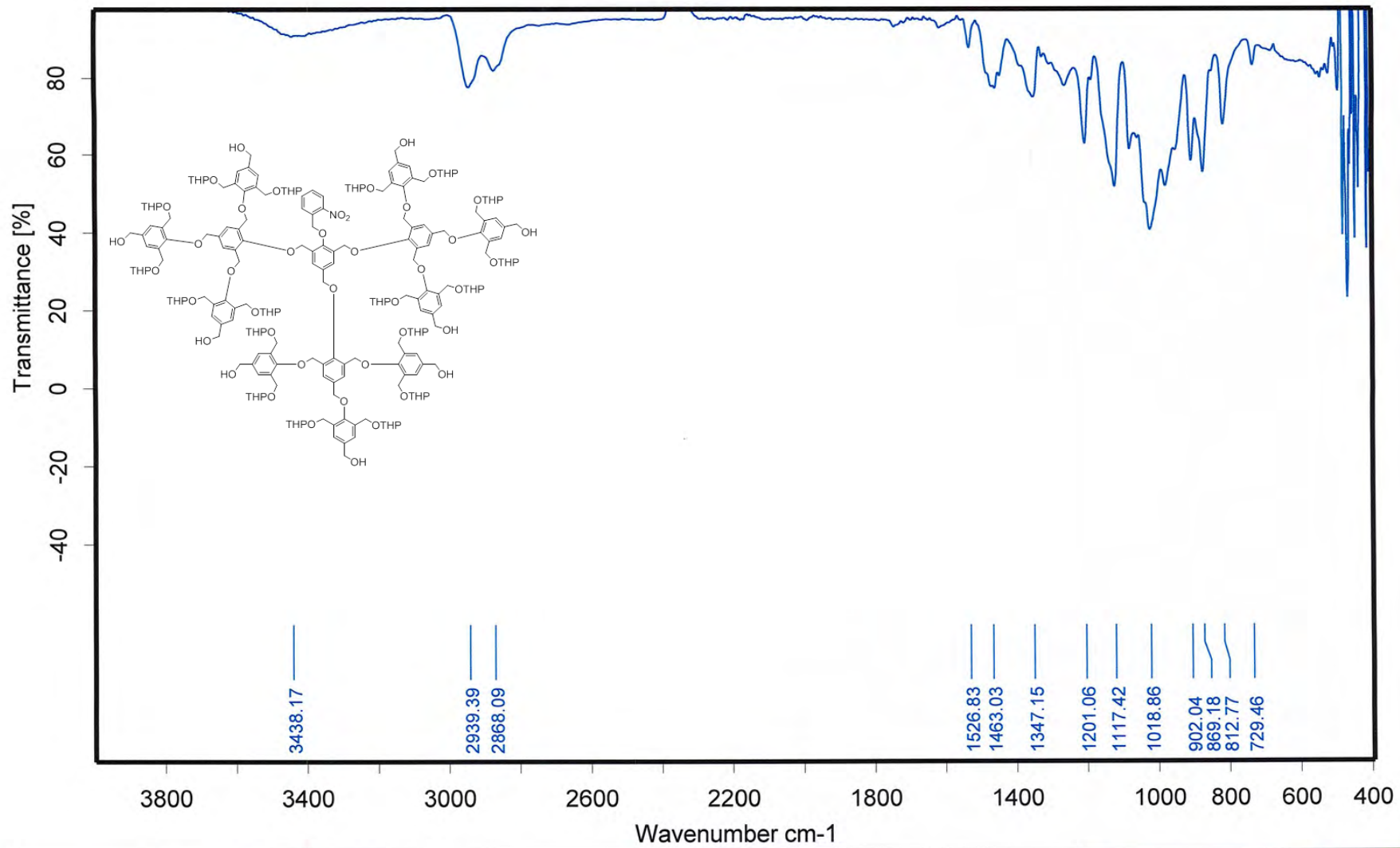


ACETONE-d6

AK-PHD-3G18THP9OH_002001r



S58



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3G18THP9OH.2

Date: 27.02.2018, 08:18:56

Comment 1

Comment 2

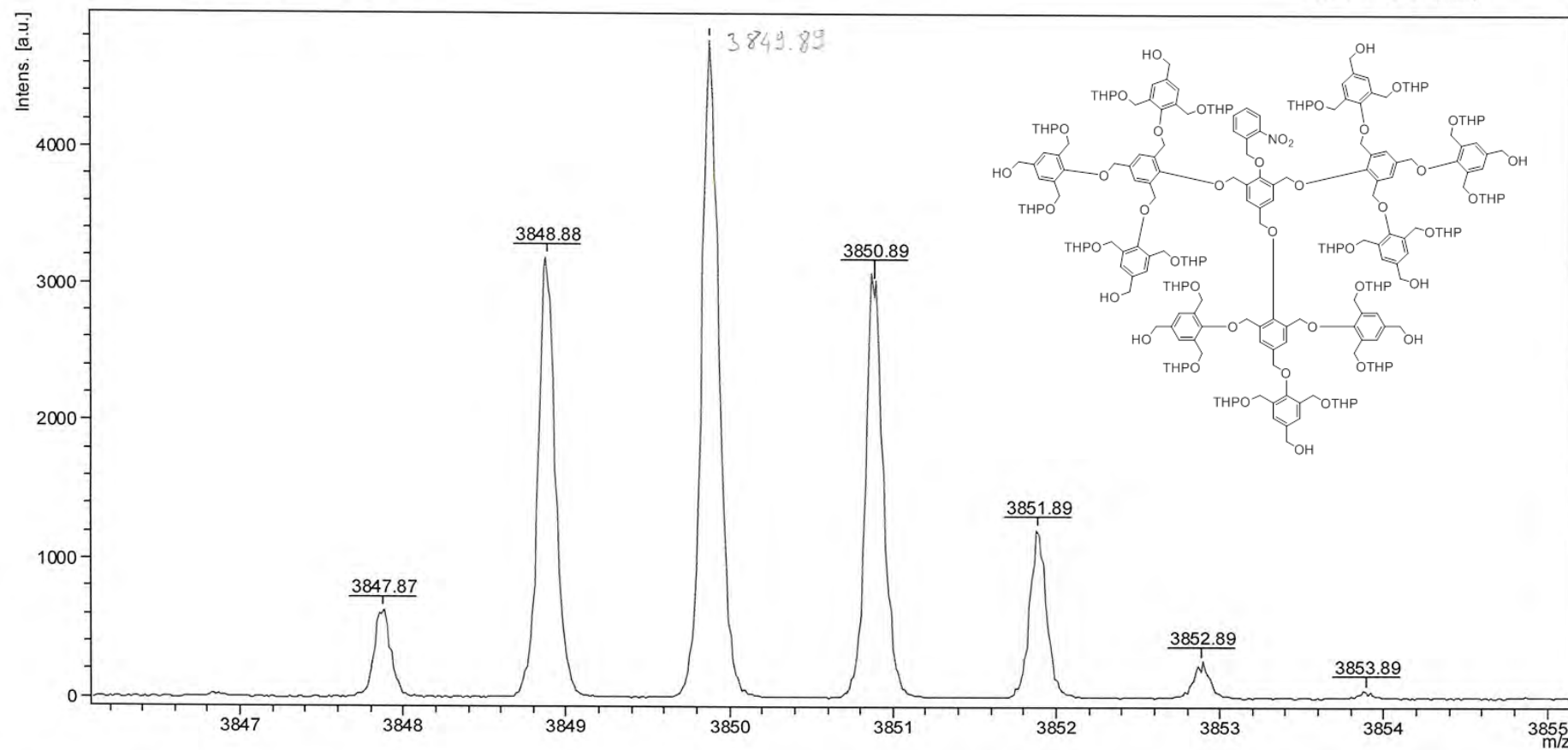
3G18THP9OH in DCTB + NaTFA

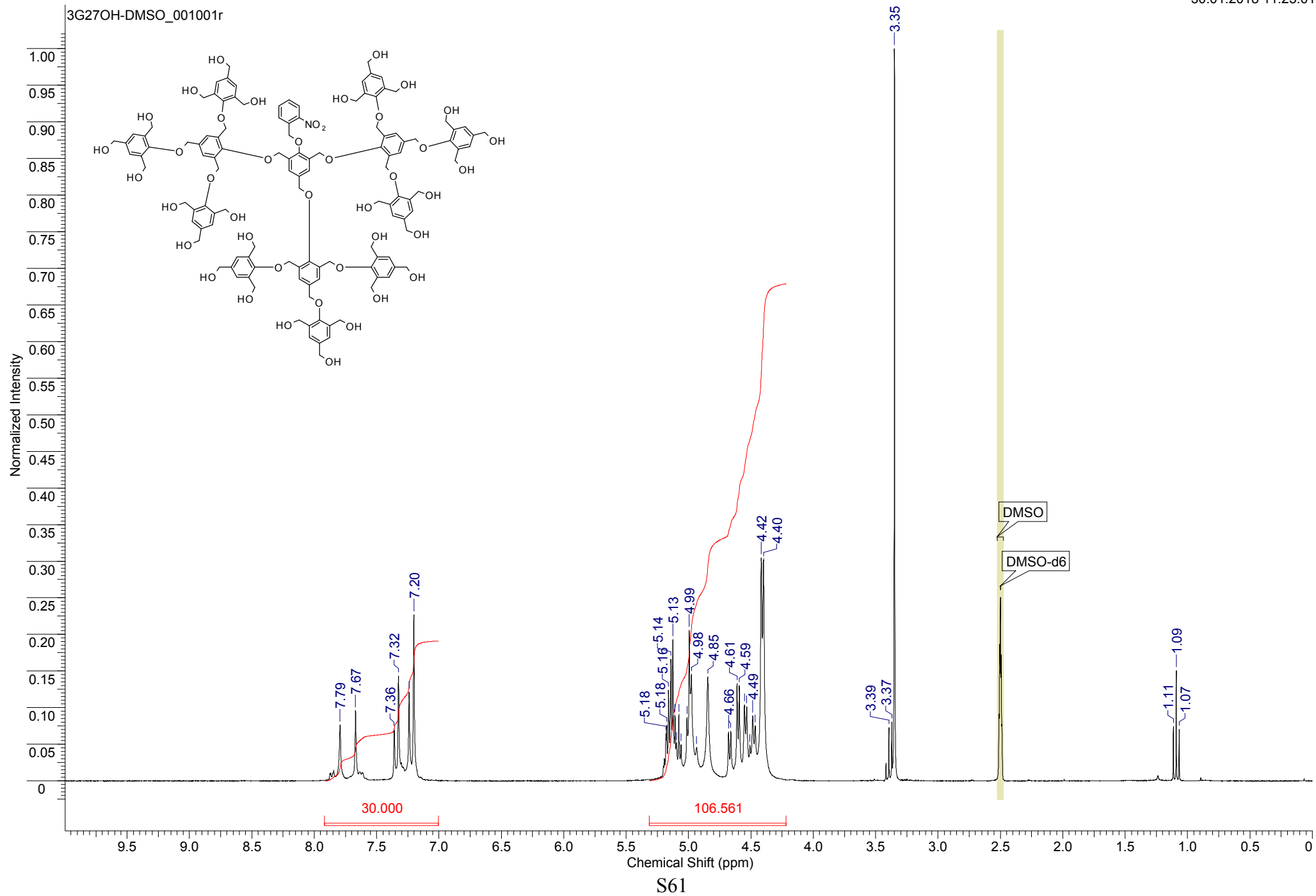
Instrument type: MALDI-TOF BRUKER ultrafleXtreme

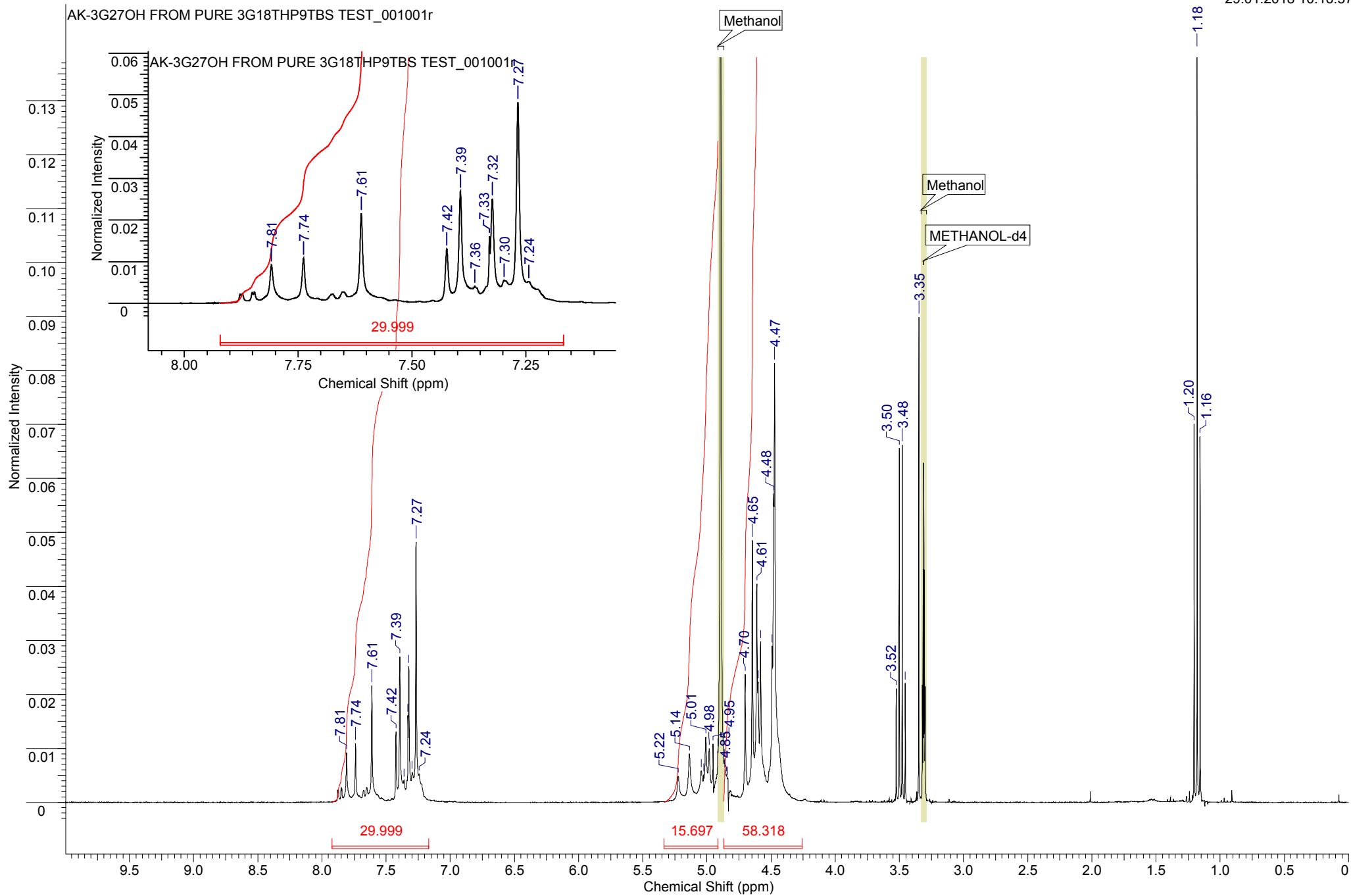
Mass spectrometry service

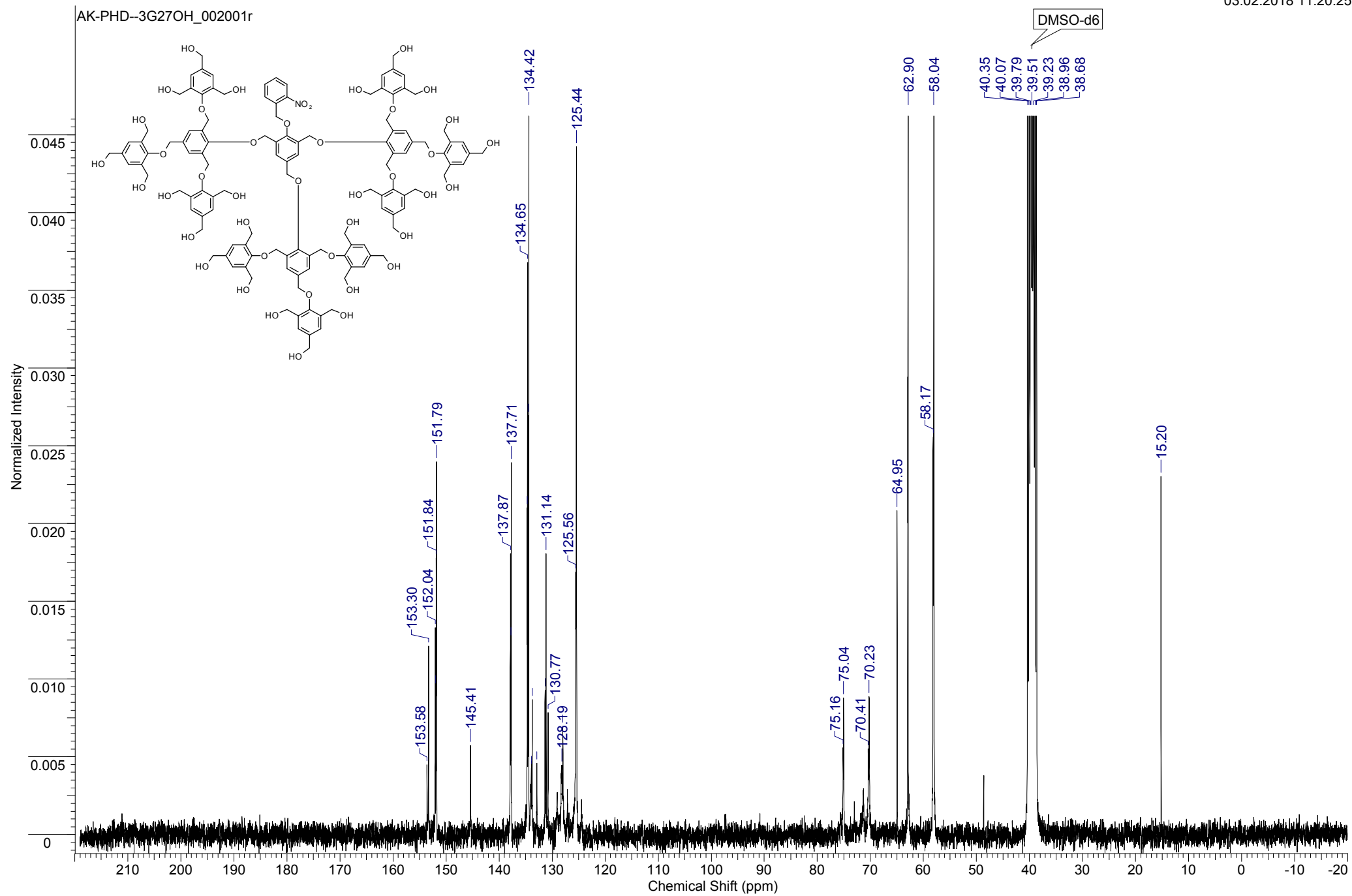
University of Fribourg

Department of Chemistry









Comment 1

Mass spectrometry service

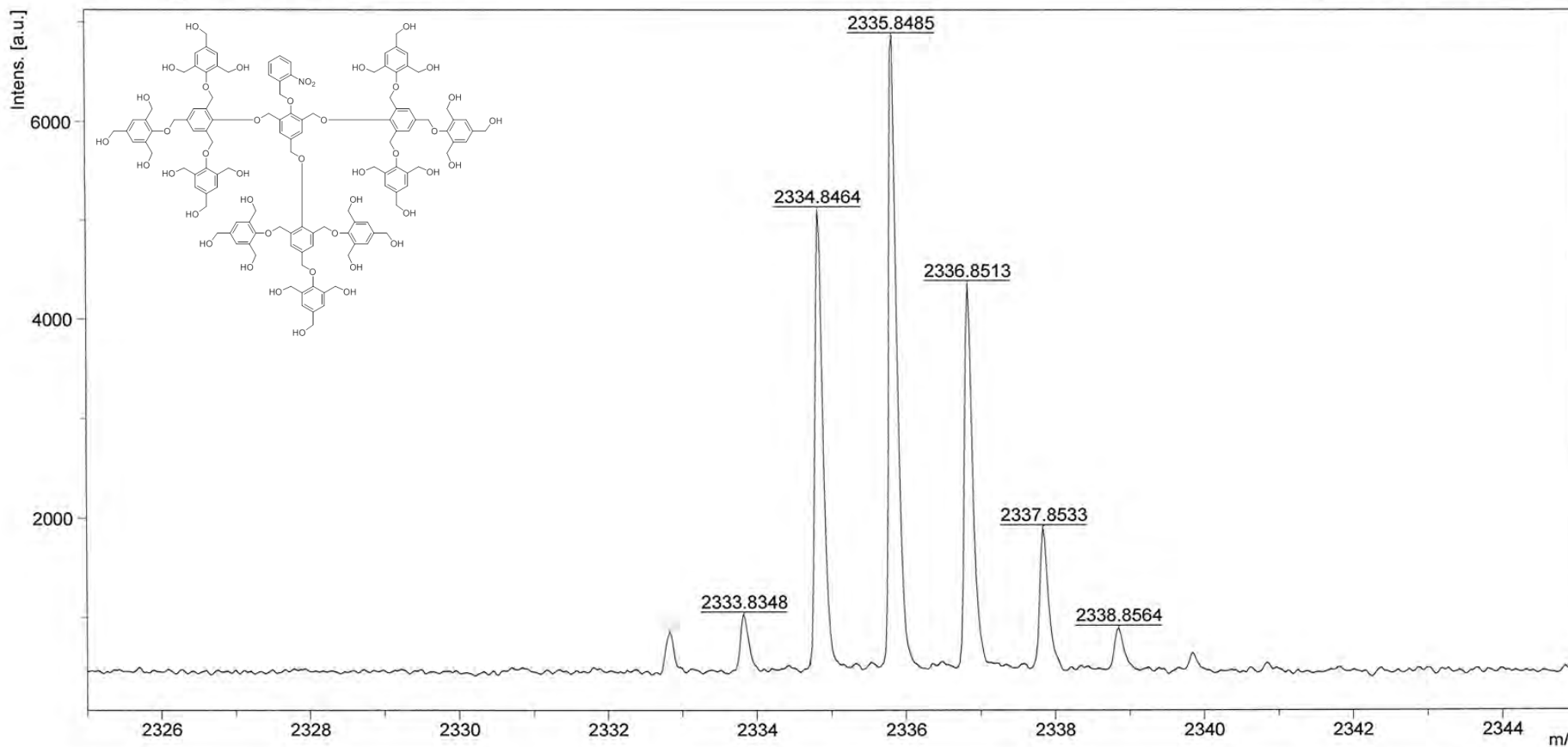
Comment 2

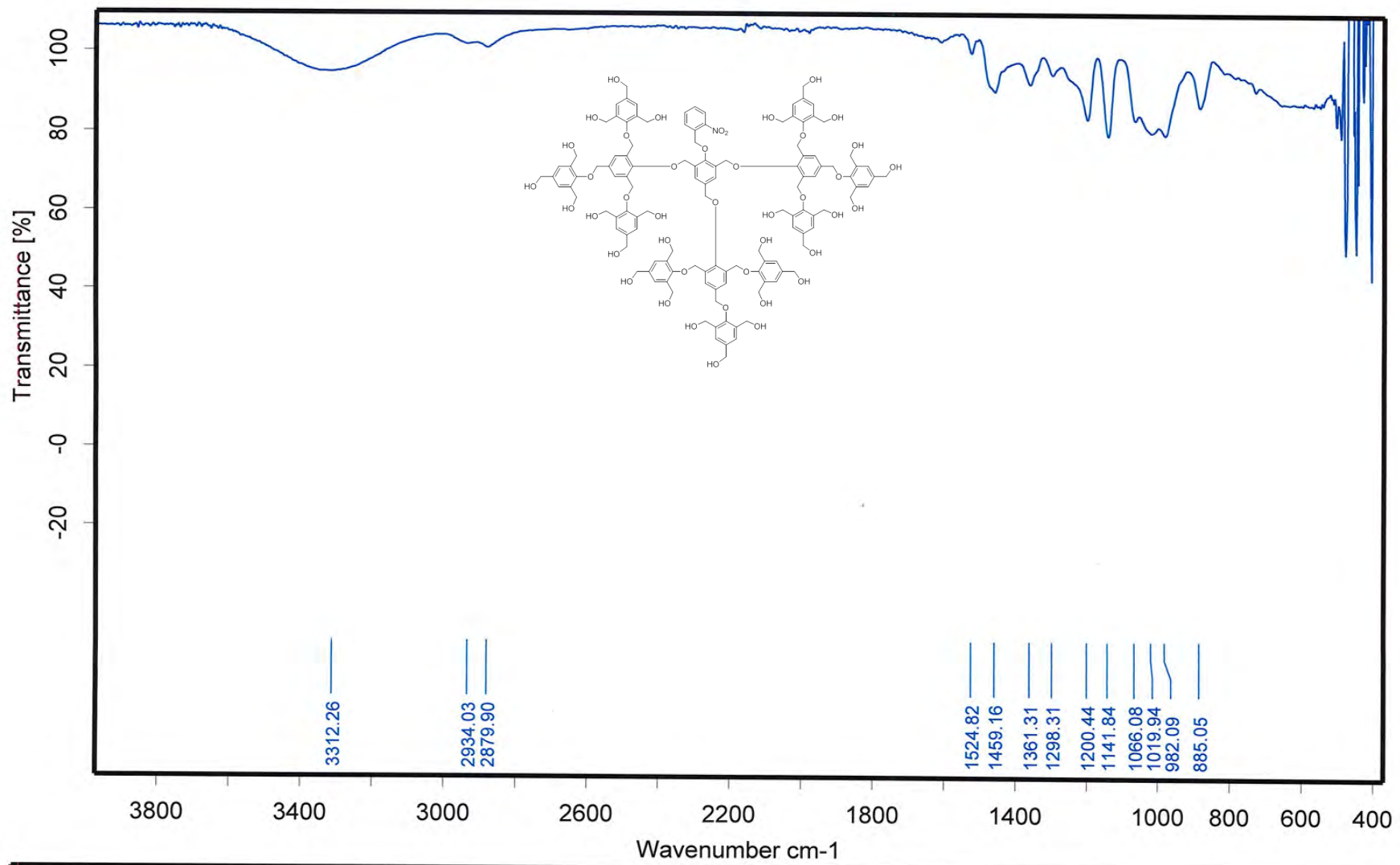
AK-PhD-078 in DHB

University of Fribourg

Instrument type: MALDI-TOF BRUKER ultrafleXtreme

Department of Chemistry

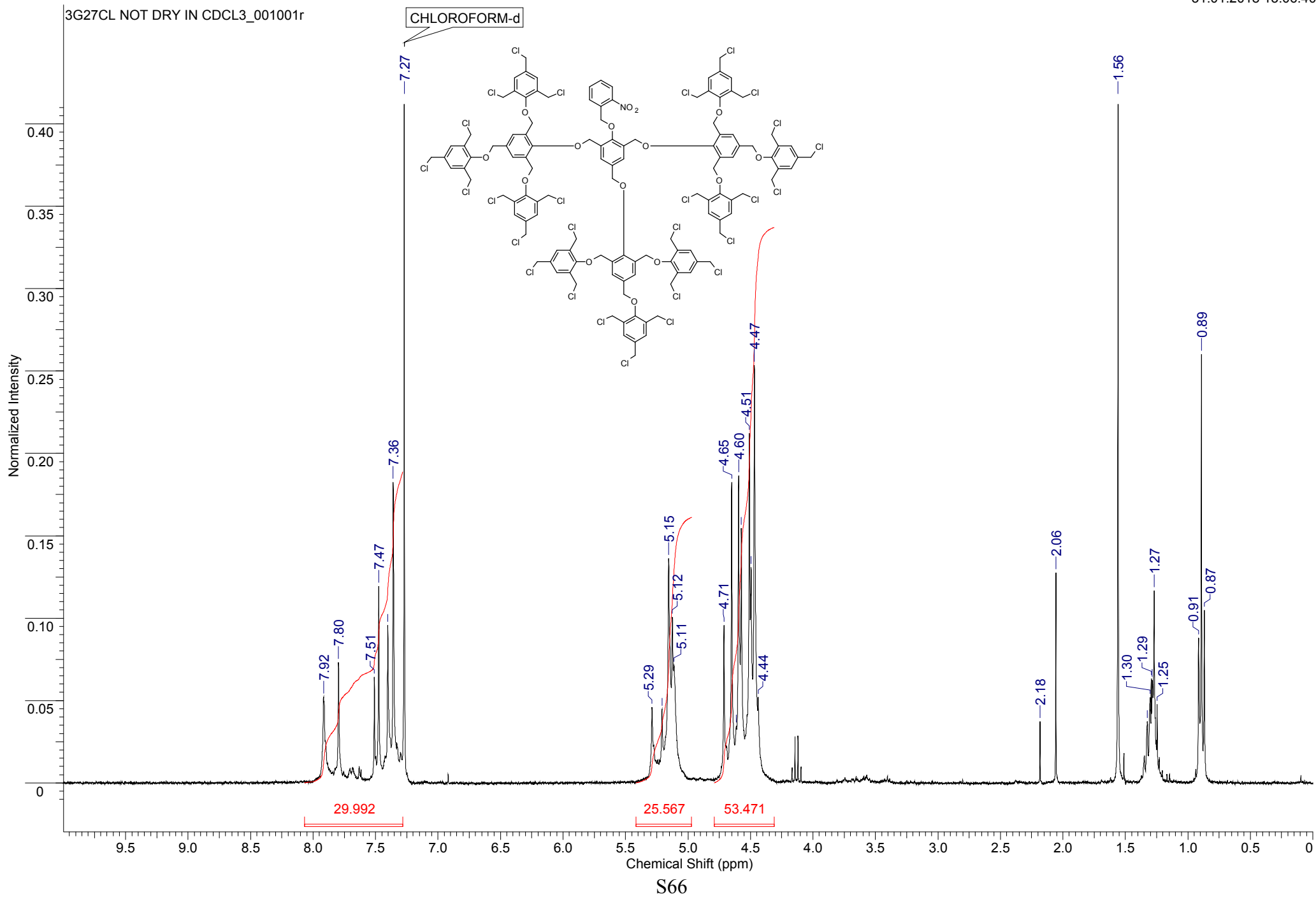




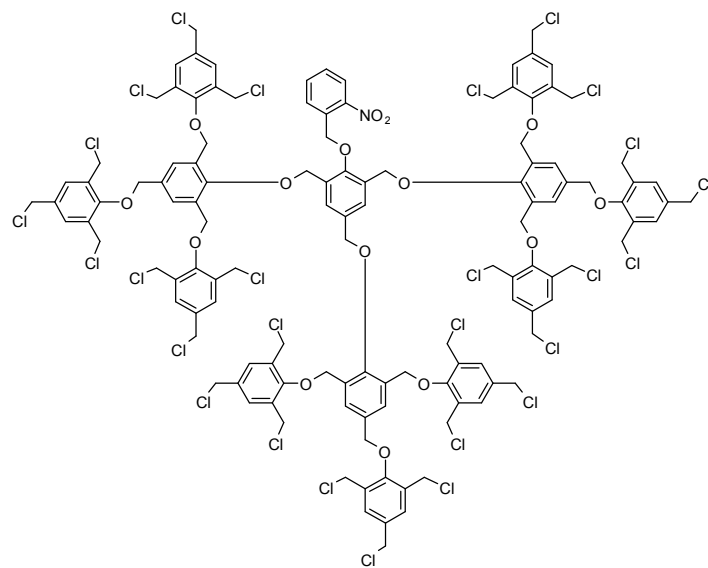
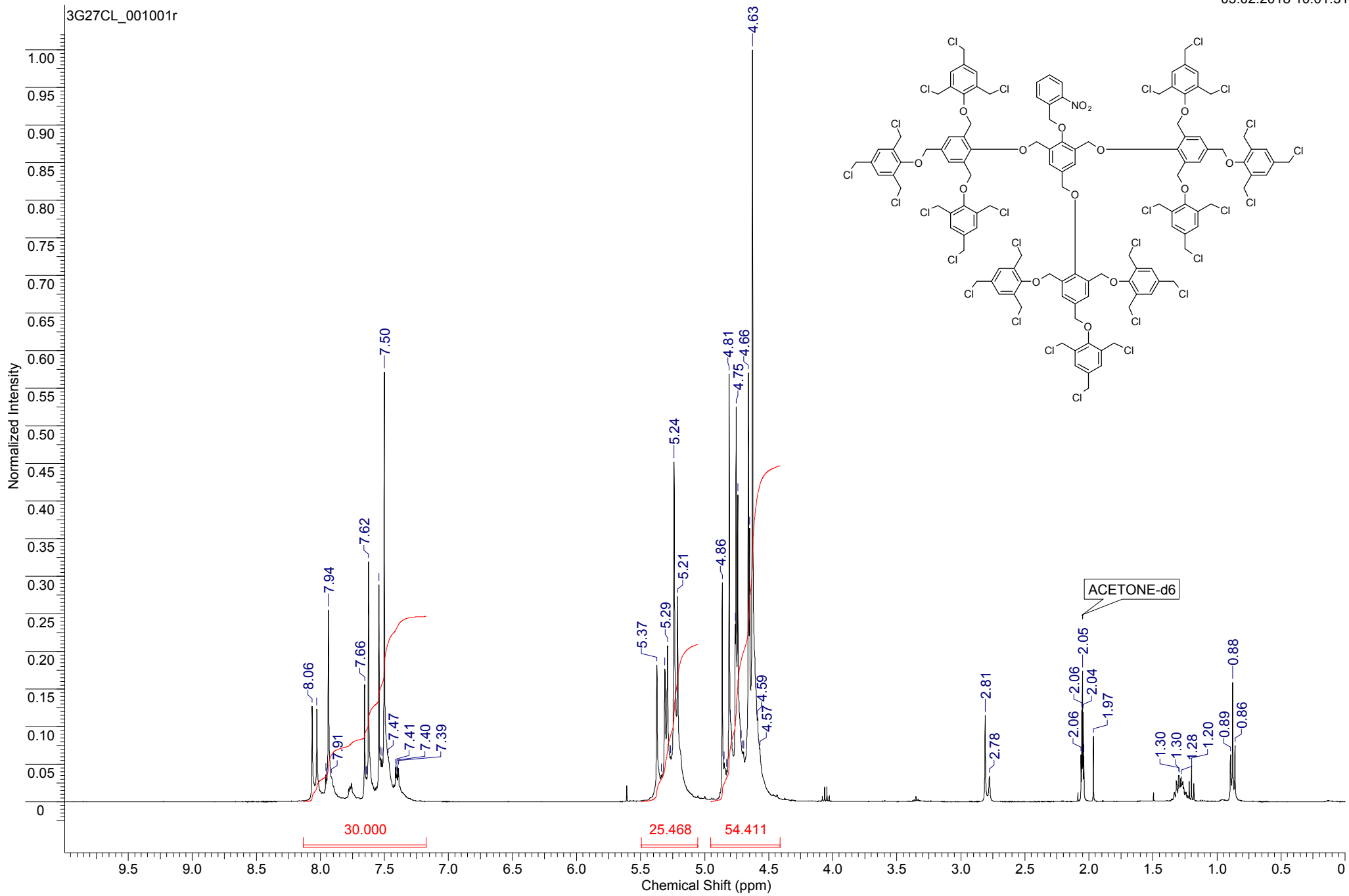
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AK-PhD-078.5

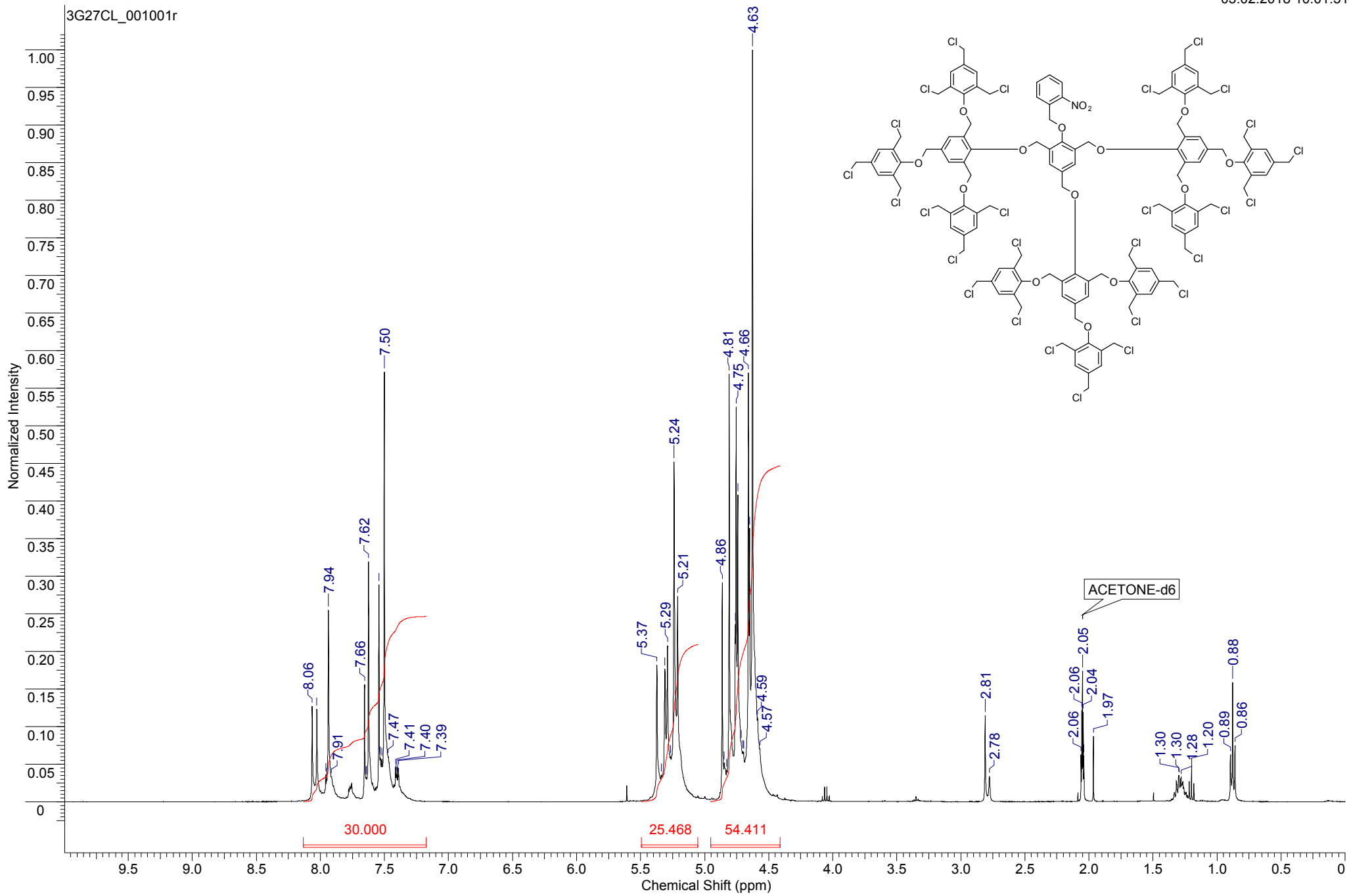
Date: 12.05.2017, 08:31:56

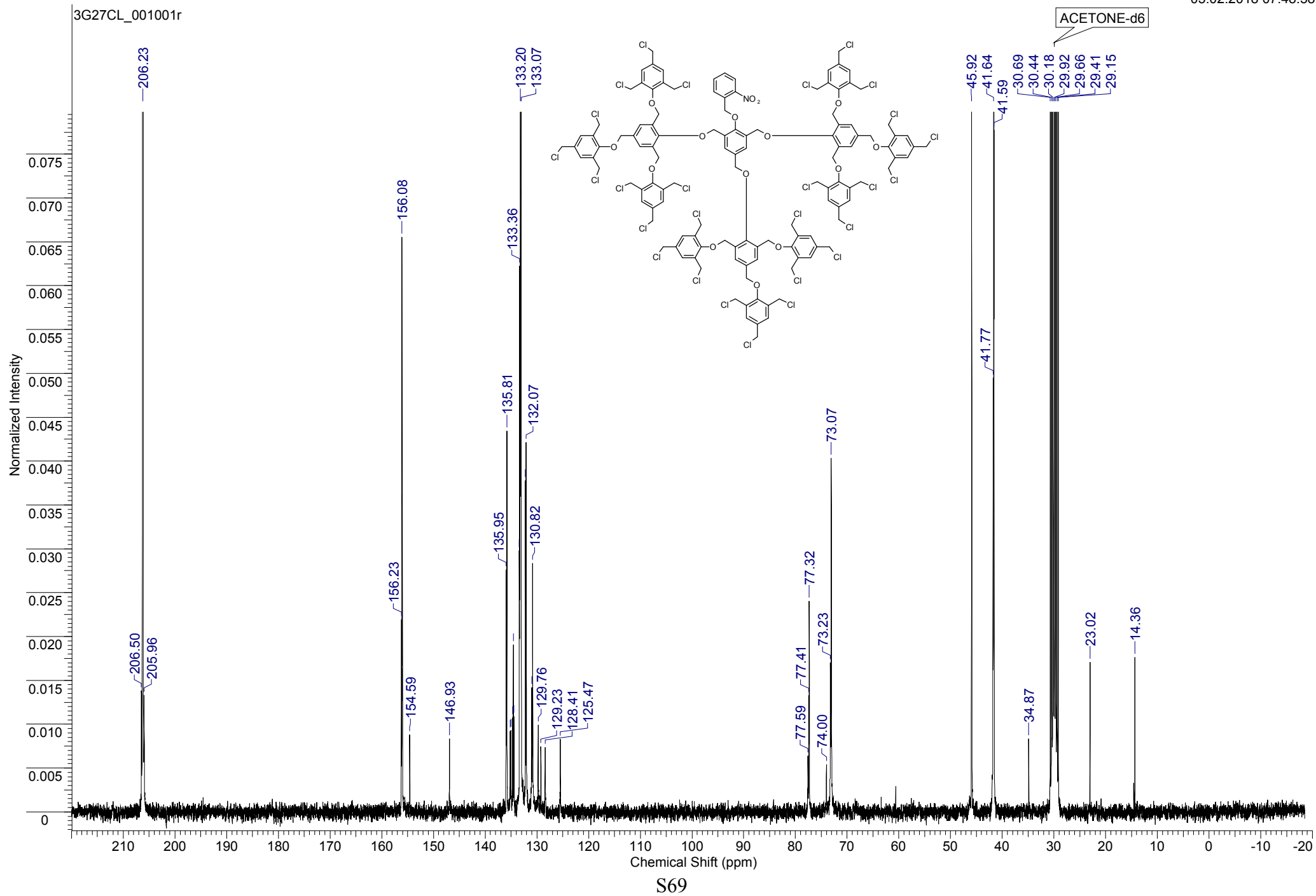


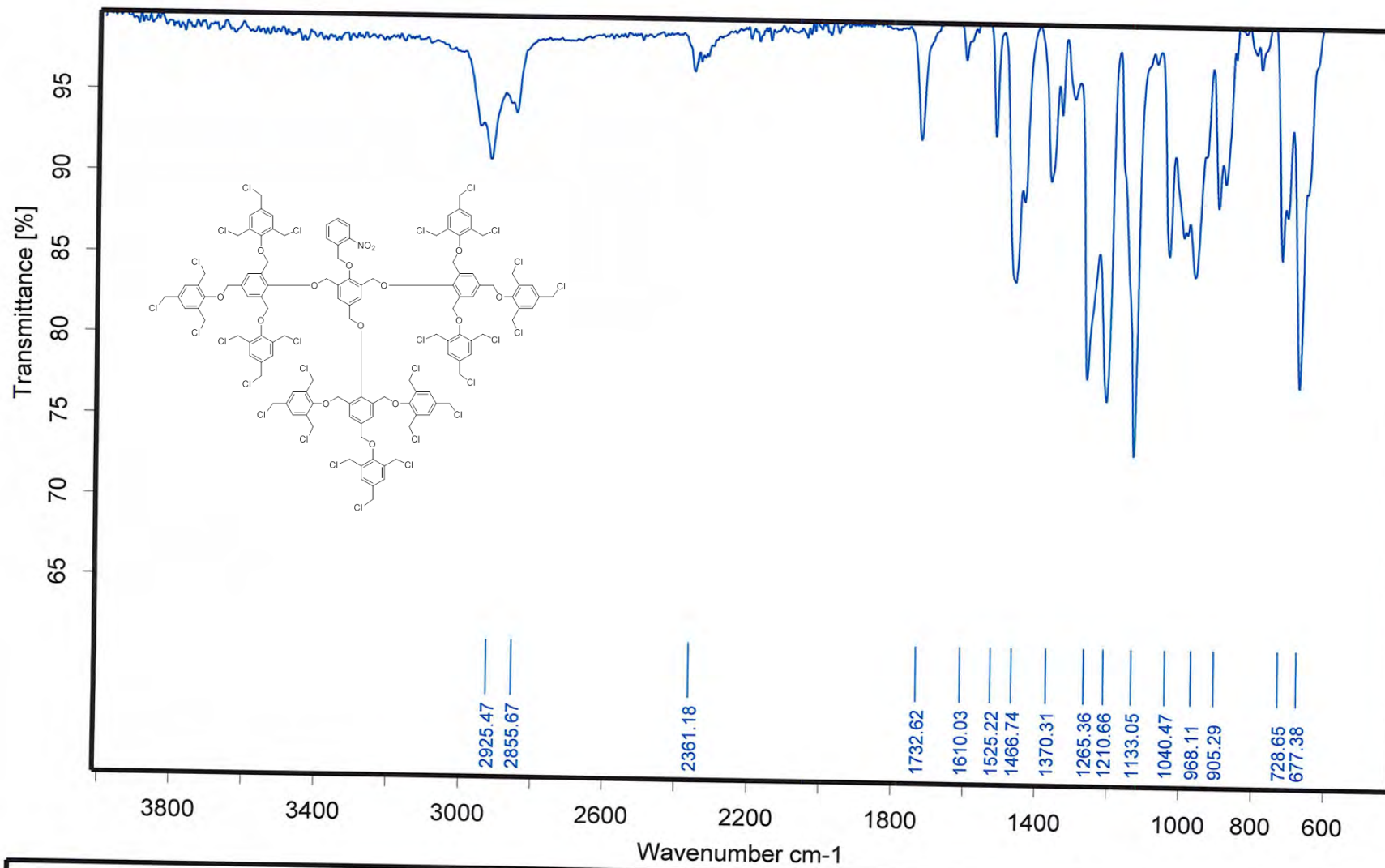
3G27CL_001001r



3G27CL_001001r







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3G27Cl.2

Date: 31.01.2018, 14:12:58

Comment 1

Comment 2

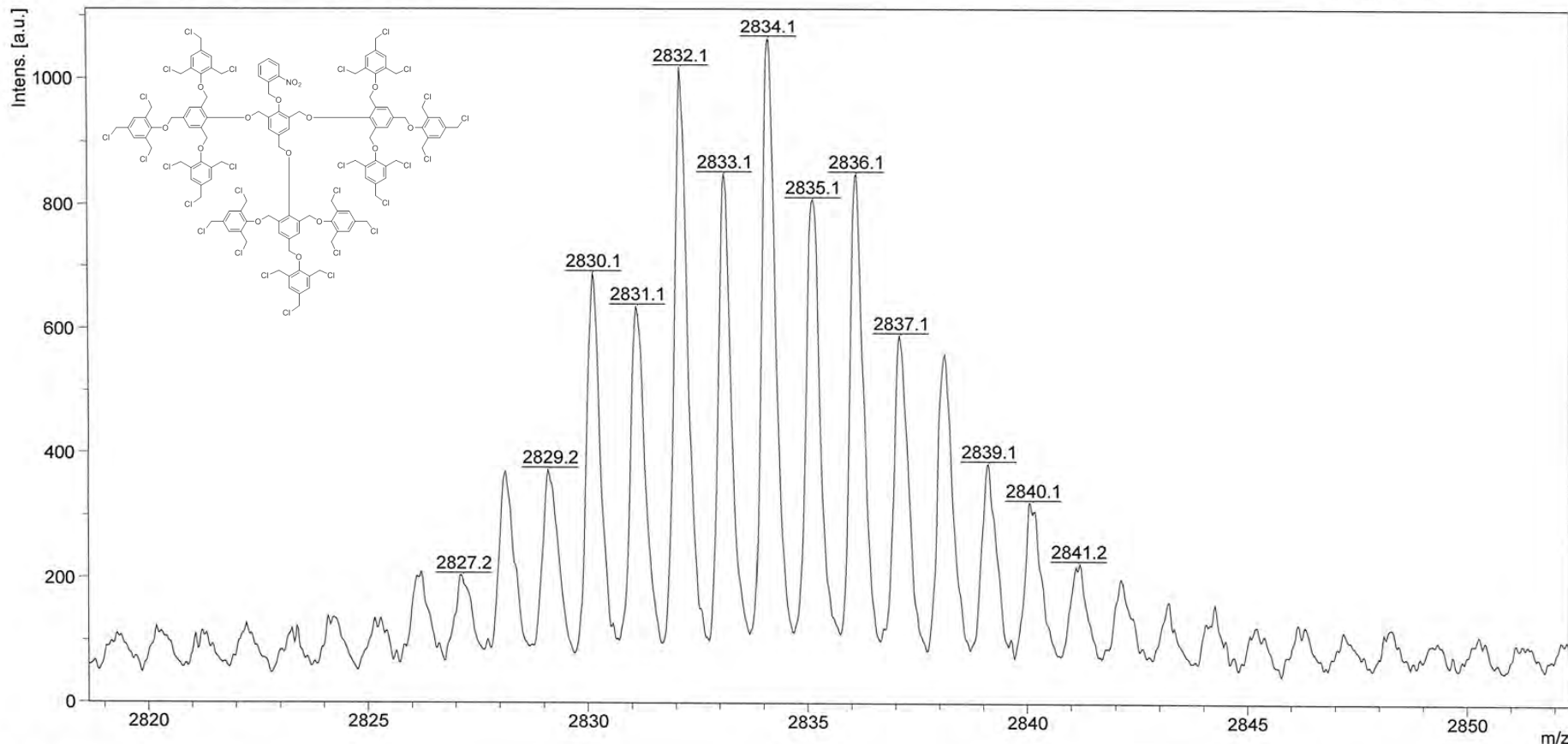
AK-PhD-081 in DCTB+NaTFA

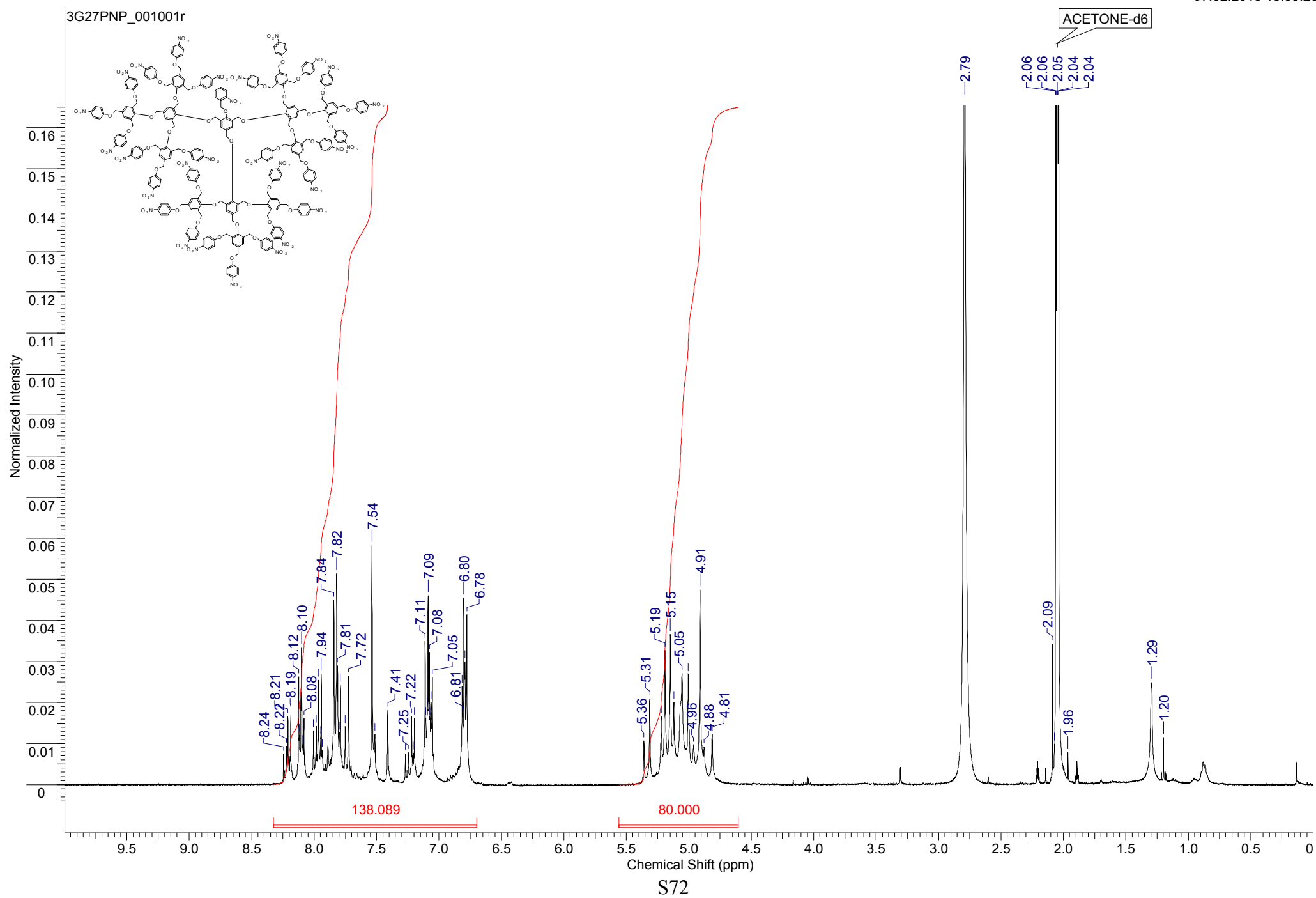
Instrument type: MALDI-TOF BRUKER ultrafleXtreme

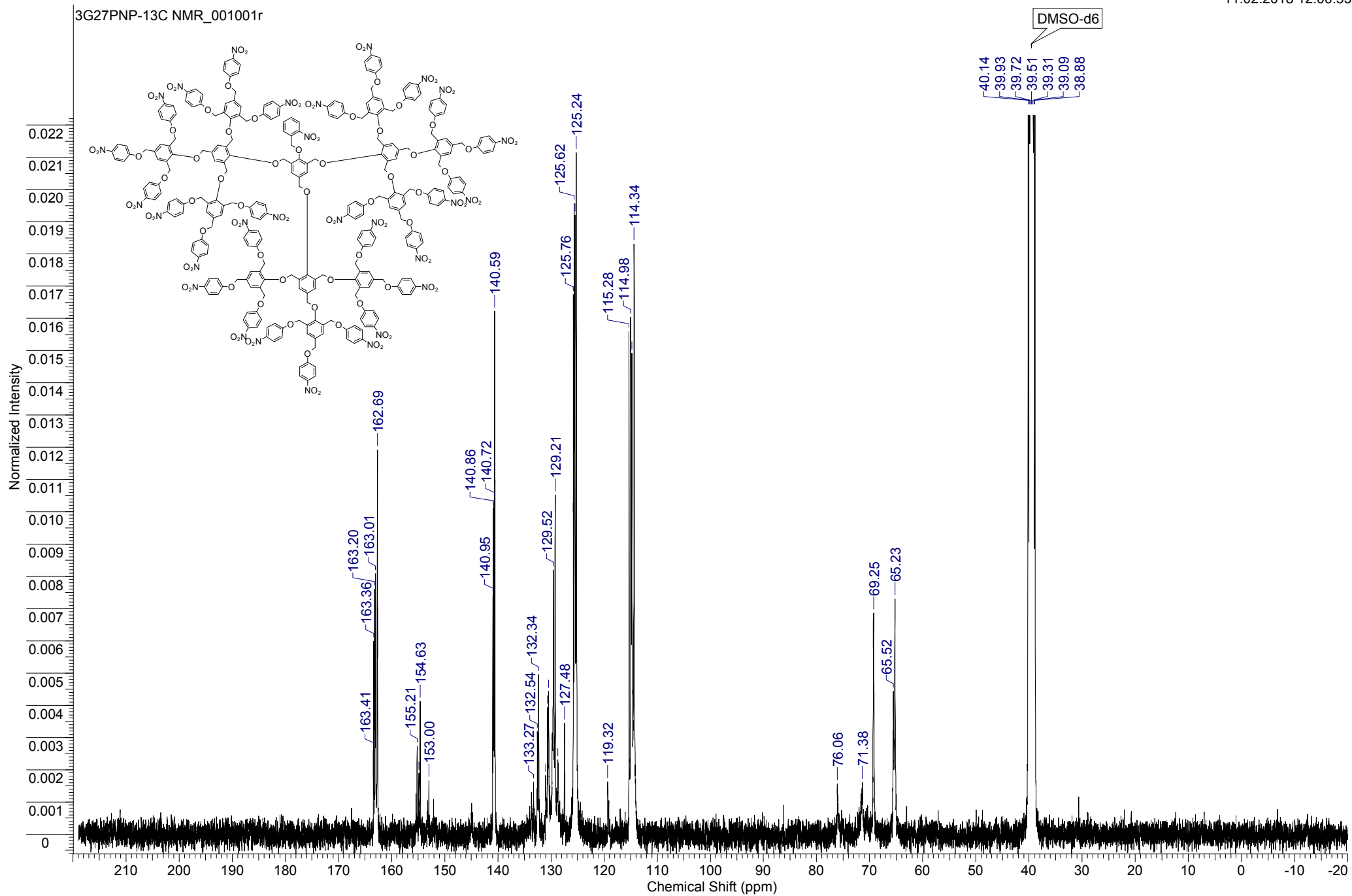
Mass spectrometry service

University of Fribourg

Department of Chemistry







Comment 1

Comment 2

AK-phD-082 in DCTB+NaTFA

Instrument type: MALDI-TOF BRUKER ultrafleXtreme

Mass spectrometry service

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