

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM072318\
 Data File : BM016031.D
 Acq On : 23 Jul 2018 18:23
 Operator : SJ/JU
 Sample : J3762-01
 Misc : LOD 1 PPM
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

Manual Integrations
 APPROVED

Sohil
 7/24/2018 5:28:50 PM

Quant Time: Jul 24 15:06:52 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM072318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 23 16:08:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.23	152	40251	20.00	ng	0.00
21) Naphthalene-d8	11.06	136	142623	20.00	ng	0.00
38) Acenaphthene-d10	14.86	164	76755	20.00	ng	0.00
63) Phenanthrene-d10	17.59	188	164263	20.00	ng	0.00
75) Chrysene-d12	21.70	240	178978	20.00	ng	0.00
86) Perylene-d12	24.07	264	194935	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.74	112	296227	122.25	ng	0.00
7) Phenol-d6	7.39	99	372953	117.86	ng	0.00
23) Nitrobenzene-d5	9.42	82	286613	93.47	ng	0.00
41) 2,4,6-Tribromophenol	16.34	330	123975	127.35	ng	0.00
44) 2-Fluorobiphenyl	13.48	172	554371	87.88	ng	0.00
78) Terphenyl-d14	20.16	244	1040016	121.64	ng	0.00

Target Compounds

						Qvalue
6) Aniline	7.57	93	1099	0.302	ng	# 74
8) 2-Chlorophenol	7.79	128	2036	0.707	ng	# 24
9) Benzaldehyde	7.38	77	1036	0.466	ng	# 2
10) Phenol	7.41	94	2563	0.810	ng	# 1
11) bis(2-Chloroethyl)ether	7.66	93	1667	0.667	ng	# 66
12) 1,3-Dichlorobenzene	8.13	146	2303	0.683	ng	# 91
13) 1,4-Dichlorobenzene	8.27	146	2459	0.719	ng	92
14) 1,2-Dichlorobenzene	8.59	146	2494	0.746	ng	88
15) Benzyl Alcohol	8.55	79	7351m	2.917	ng	
16) 2,2'-oxybis(1-Chloropropan	8.77	45	2857	0.747	ng	66
18) Hexachloroethane	9.31	117	1191	0.806	ng	# 86
24) Nitrobenzene	9.46	77	2818	0.913	ng	# 72
31) Naphthalene	11.11	128	6387	0.885	ng	# 95
34) Hexachlorobutadiene	11.36	225	1444	0.803	ng	95
37) 2-Methylnaphthalene	12.71	142	4021	0.832	ng	# 73
39) 1,2,4,5-Tetrachlorobenzene	13.07	216	1787	0.684	ng	# 100
45) 1,1'-Biphenyl	13.70	154	6022	0.869	ng	93
46) 2-Chloronaphthalene	13.75	162	4268	0.792	ng	91
48) Acenaphthylene	14.59	152	6041	0.766	ng	# 95
49) Dimethylphthalate	14.31	163	5087	0.757	ng	# 95
50) 2,6-Dinitrotoluene	14.46	165	444	0.329	ng	# 65
51) Acenaphthene	14.92	154	3815	0.786	ng	# 92
54) Dibenzofuran	15.26	168	6476	0.810	ng	# 88
57) Fluorene	15.90	166	4782	0.805	ng	96
58) 2,3,4,6-Tetrachlorophenol	15.50	232	557	0.384	ng	# 100
59) Diethylphthalate	15.66	149	5334	0.737	ng	99
62) Azobenzene	16.18	77	4660	0.611	ng	# 75
65) n-Nitrosodiphenylamine	16.11	169	4185	0.774	ng	87
66) 4-Bromophenyl-phenylether	16.78	248	1497	0.805	ng	# 70
67) Hexachlorobenzene	16.90	284	1487	0.726	ng	# 52
68) Atrazine	17.04	200	1211	0.625	ng	# 74
70) Phenanthrene	17.63	178	8213	0.893	ng	96
71) Anthracene	17.73	178	7215	0.807	ng	# 93
72) Carbazole	18.01	167	5967	0.644	ng	93

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
73) Di-n-butylphthalate	18.51	149	7388	0.640	nq	# 92
74) Fluoranthene	19.62	202	8495	0.828	nq	# 87
77) Pyrene	19.98	202	8690	0.810	nq	# 94
79) Butylbenzylphthalate	20.83	149	3928	0.721	nq	# 78
80) Benzo(a)anthracene	21.69	228	10447	0.948	nq	# 94
82) Chrysene	21.74	228	9547	0.903	nq	# 96
83) Bis(2-ethylhexyl)phthalate	21.57	149	5466	0.692	nq	# 84
84) Di-n-octyl phthalate	22.48	149	10402	0.784	nq	# 89
85) Indeno(1,2,3-cd)pyrene	26.52	276	11578	0.923	nq	# 95
87) Benzo(b)fluoranthene	23.36	252	10710	0.933	nq	# 98
88) Benzo(k)fluoranthene	23.41	252	9675	0.832	nq	# 89
89) Benzo(a)pyrene	23.98	252	10431	0.945	nq	# 91
90) Dibenzo(a,h)anthracene	26.51	278	9231	0.807	nq	# 78
91) Benzo(q,h,i)perylene	27.26	276	9739	0.901	nq	# 81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

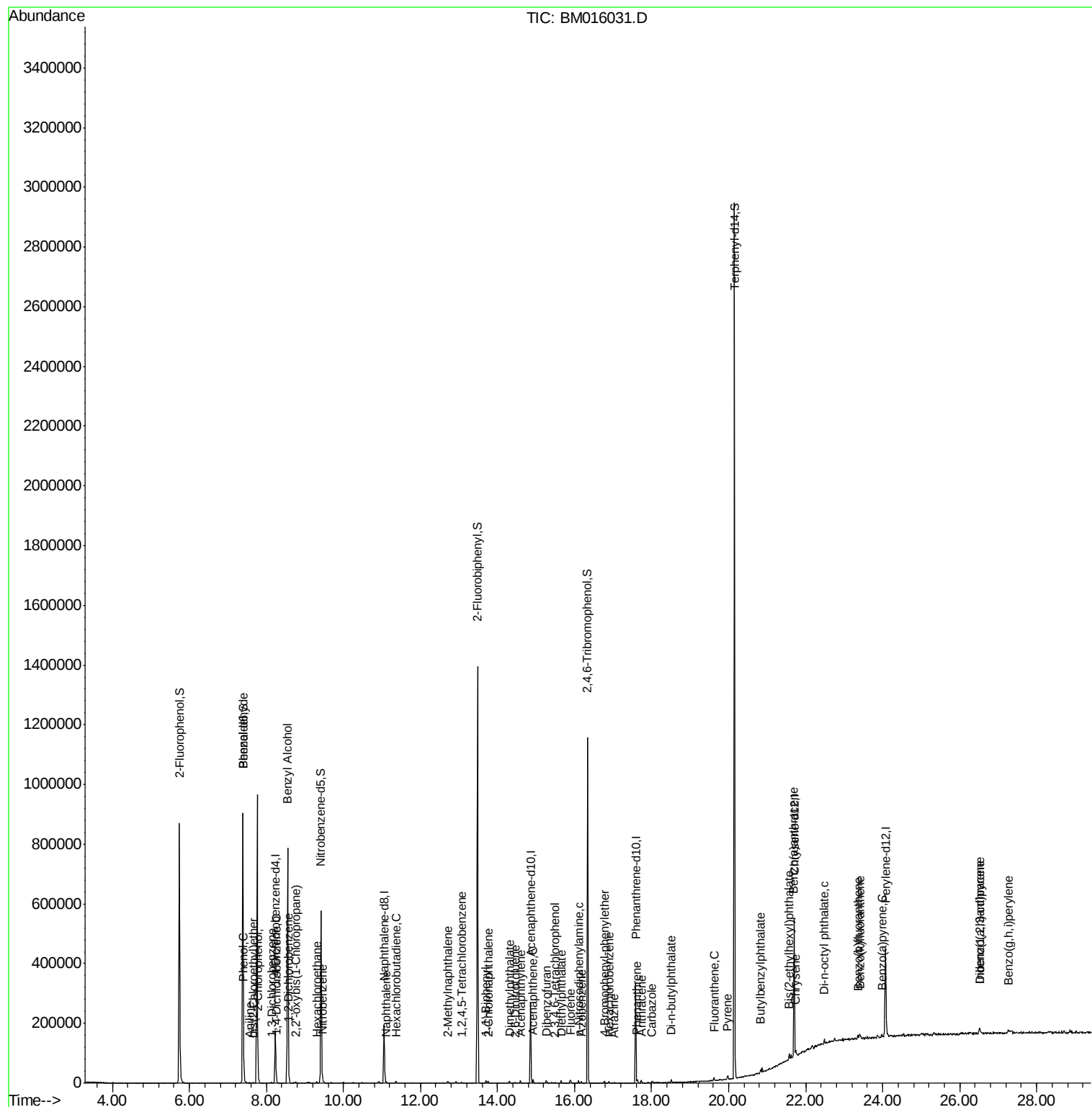
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM072318\
Data File : BM016031.D
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Operator : SJ/JU
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Misc : LOD 1 PPM
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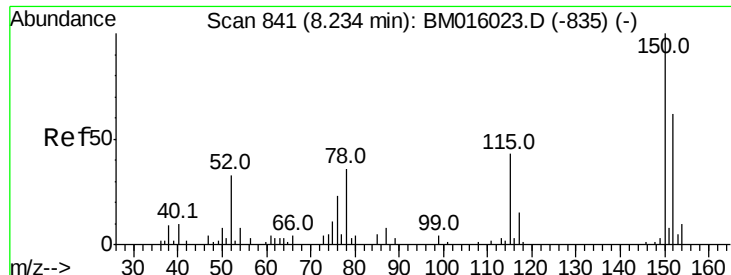
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LOD-MDL-SOIL-01-QT3-2018

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#1

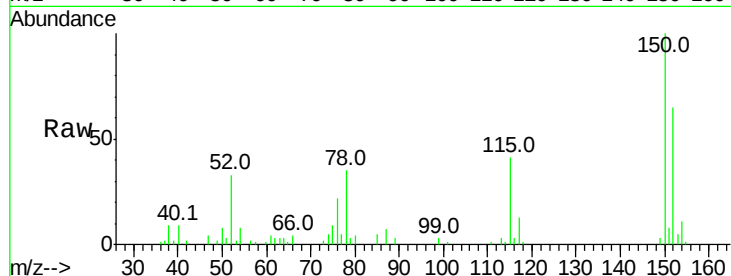
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.23 min Scan# 841
Delta R.T. -0.00 min
Lab File: BM016031.D
Acq: 23 Jul 2018 18:23

Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.3	119.5	179.3
115	63.6	43.0	64.4

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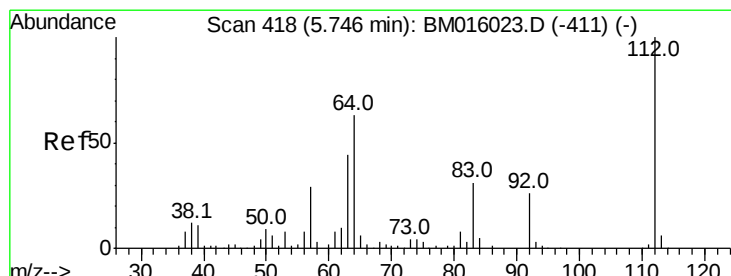
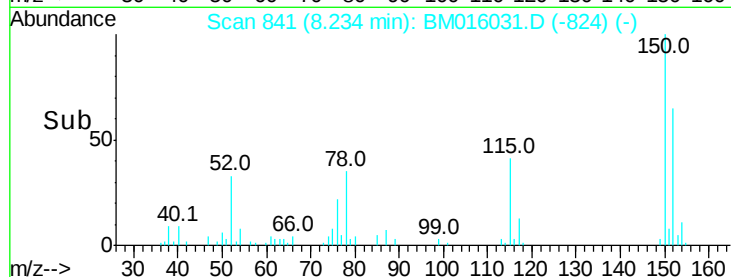
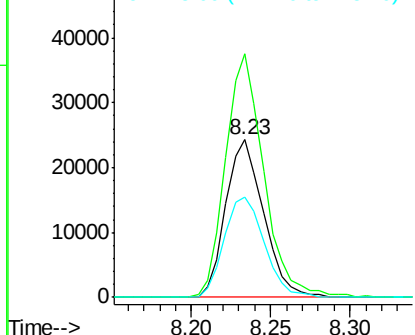


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

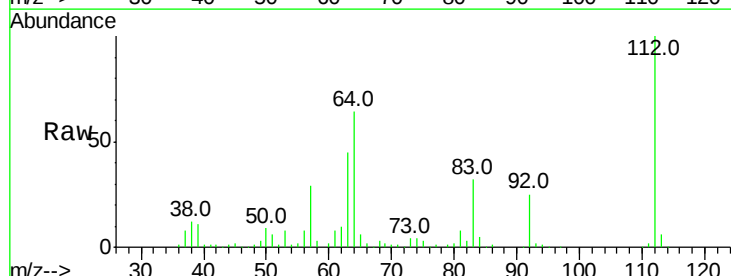
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: N.D. ng
RT: 5.74 min Scan# 417
Delta R.T. -0.01 min
Lab File: BM016031.D
Acq: 23 Jul 2018 18:23

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.6	38.6	57.8#
63	44.5	19.3	28.9#

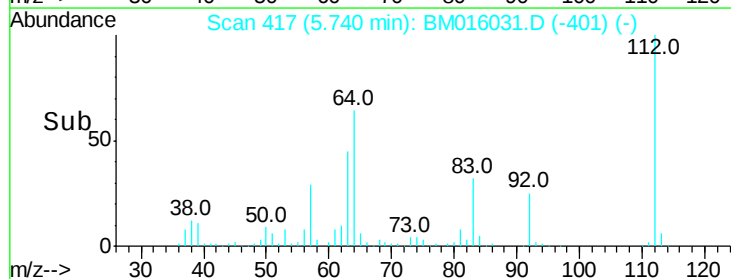
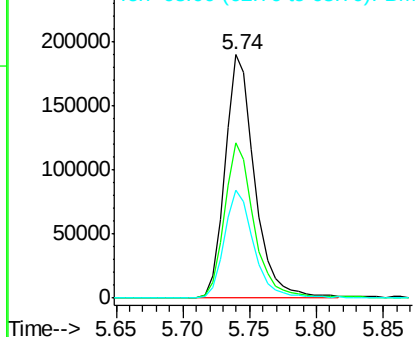


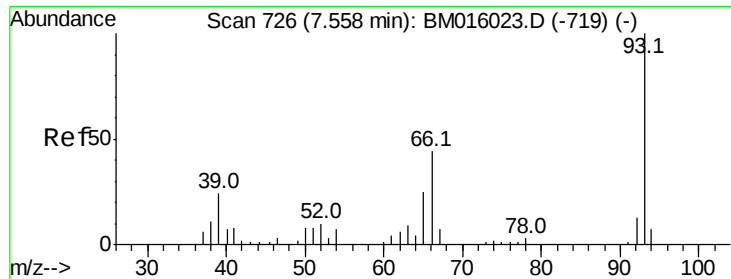
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BM0

Ion 63.00 (62.70 to 63.70): BM0





#6

Aniline

Concen: 0.302 ng

RT: 7.57 min Scan# 728

Delta R.T. 0.01 min

Lab File: BM016031.D

Acq: 23 Jul 2018 18:23

Instrument :

BNA_M

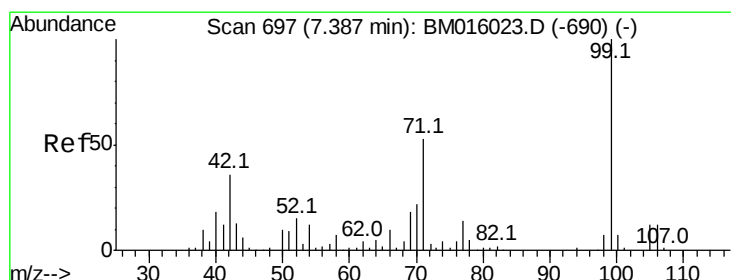
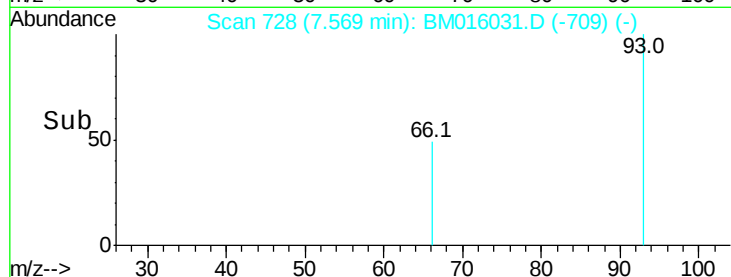
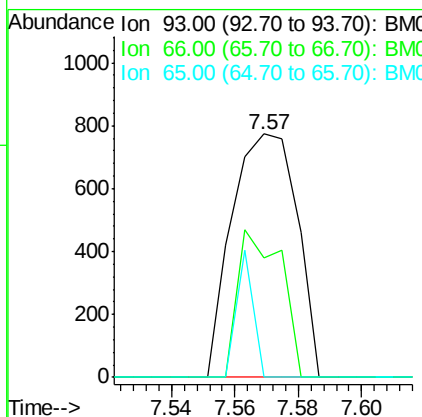
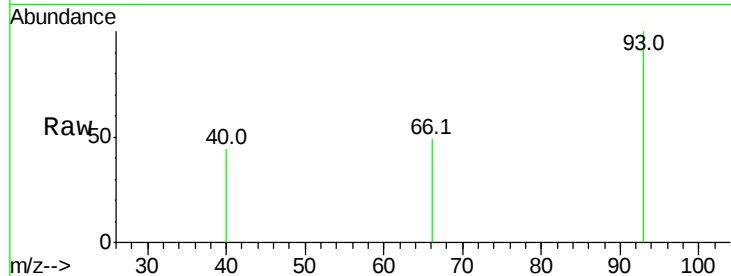
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion:	93	Resp:	1099
Ion Ratio	Lower	Upper	
93	100		
66	49.1	30.8	46.2#
65	0.0	16.0	24.0#

Manual Integrations
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#7

Phenol-d6

Concen: 0.302 ng

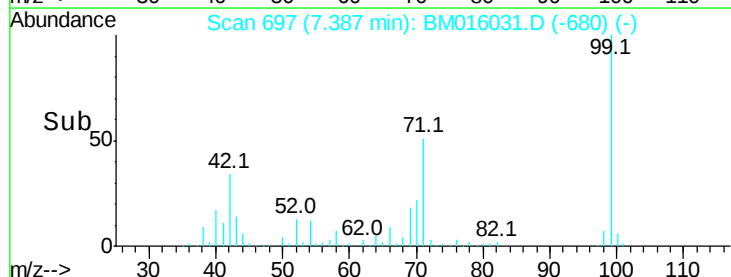
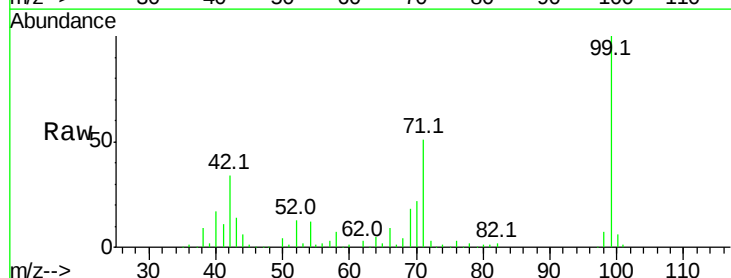
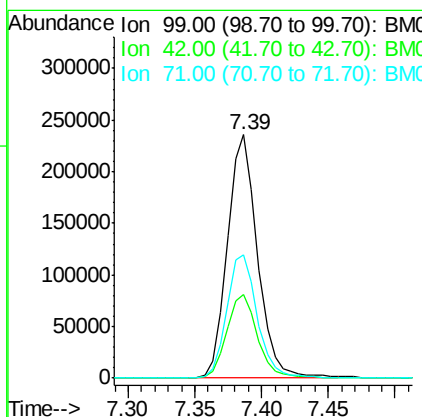
RT: 7.39 min Scan# 697

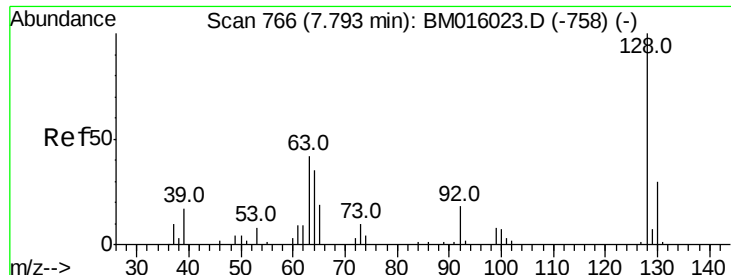
Delta R.T. -0.00 min

Lab File: BM016031.D

Acq: 23 Jul 2018 18:23

Tgt Ion:	99	Resp:	372953
Ion Ratio	Lower	Upper	
99	100		
42	34.2	11.0	16.4#
71	50.8	23.4	35.2#





#8

2-Chlorophenol

Concen: 0.707 ng

RT: 7.79 min Scan# 765

Delta R.T. -0.01 min

Lab File: BM016031.D

Acq: 23 Jul 2018 18:23

Instrument :

BNA_M

ClientSampleId :

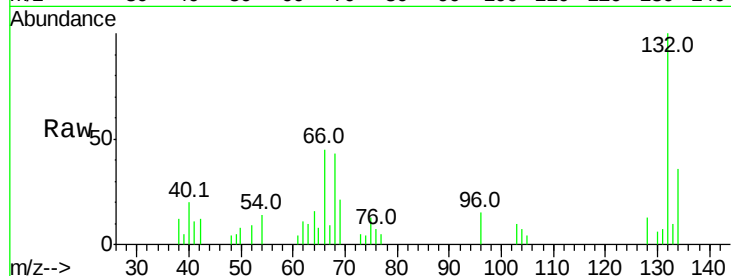
LOD-MDL-SOIL-01-QT3-2018

Tot Ion:	128	Resp:	2036
Ion Ratio	Lower	Upper	
128	100		
130	43.2	12.0	52.0
64	121.0	24.9	64.9#

Manual Integrations
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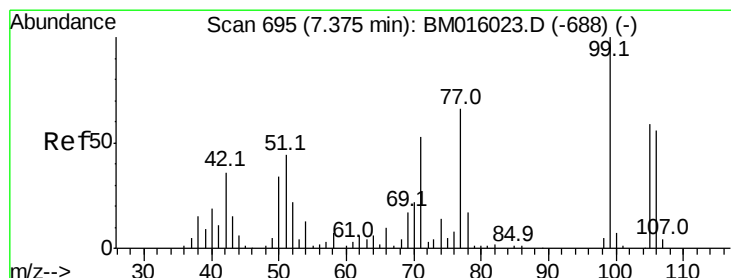
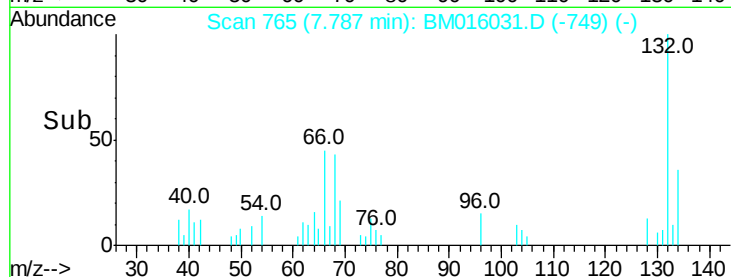
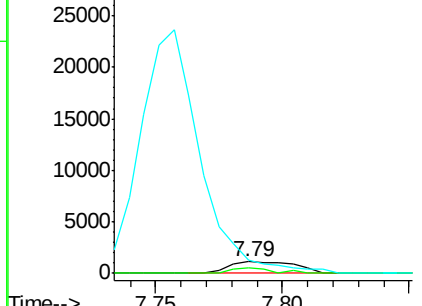
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Abundance Ion 128.00 (127.70 to 128.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 64.00 (63.70 to 64.70): BM



#9

Benzaldehyde

Concen: 0.466 ng

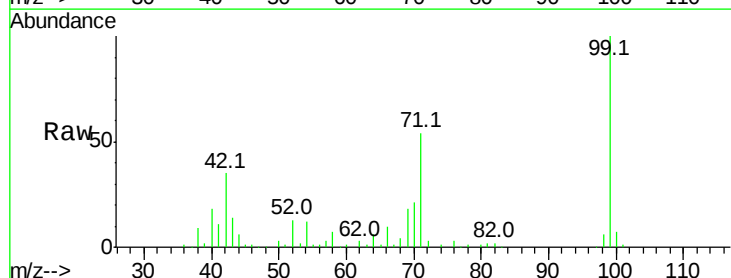
RT: 7.38 min Scan# 696

Delta R.T. 0.01 min

Lab File: BM016031.D

Acq: 23 Jul 2018 18:23

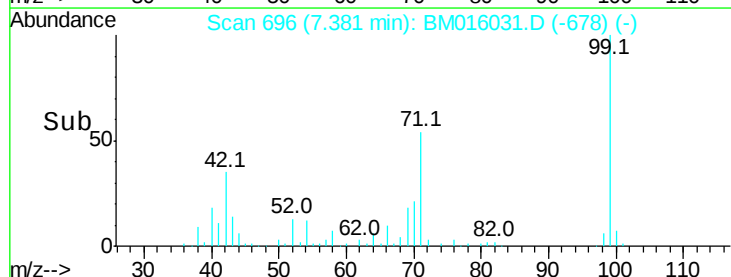
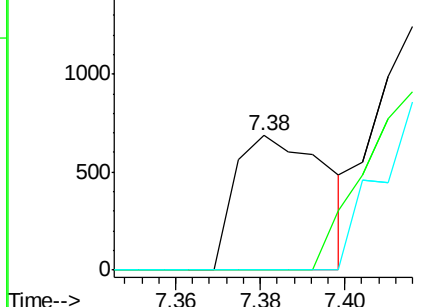
Tgt Ion:	77	Resp:	1036
Ion Ratio	Lower	Upper	
77	100		
105	0.0	78.8	118.8#
106	0.0	73.7	113.7#

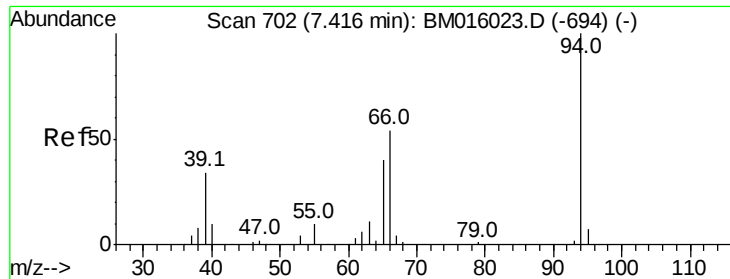


Abundance Ion 77.00 (76.70 to 77.70): BM

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





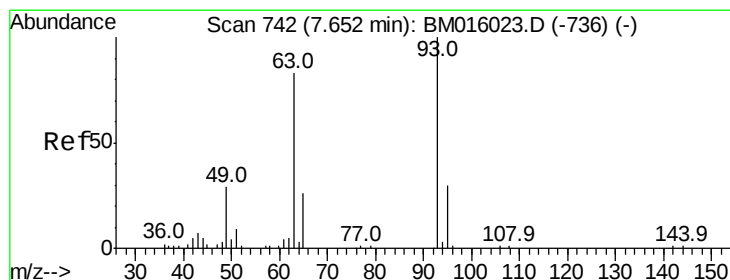
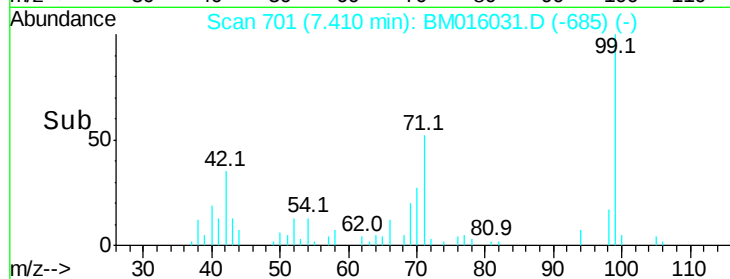
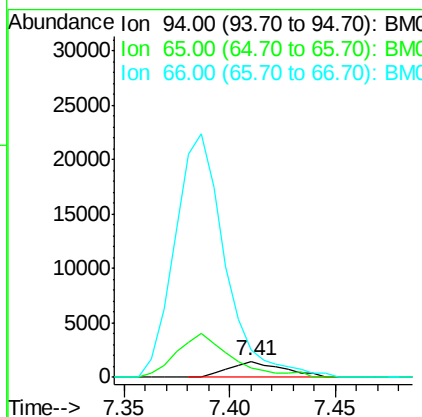
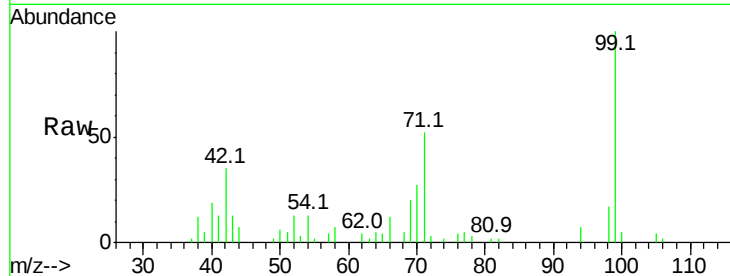
#10
Phenol
Concen: 0.810 ng
RT: 7.41 min Scan# 701
Delta R.T. -0.01 min
Lab File: BM016031.D
Acq: 23 Jul 2018 18:23

Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
94	100		
65	59.5	18.8	58.8#
66	171.3	39.9	79.9#

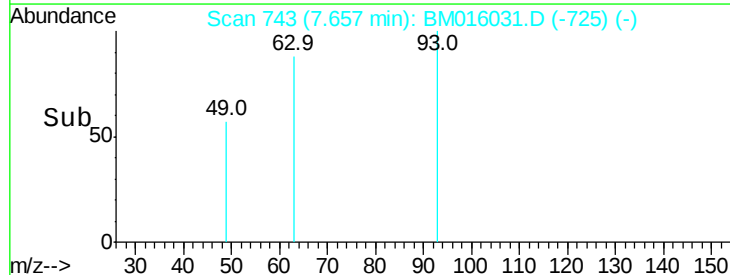
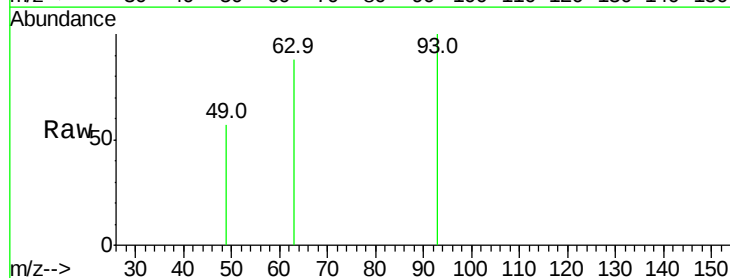
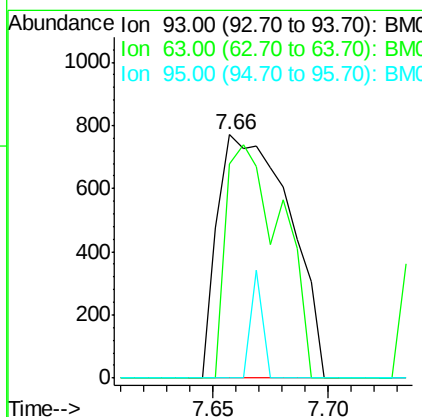
Manual Integrations
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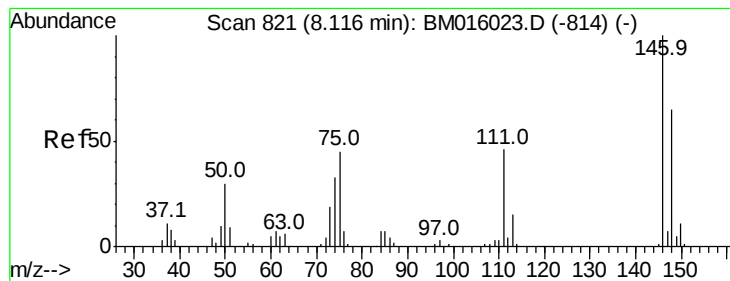
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#11
bis(2-Chloroethyl)ether
Concen: 0.667 ng
RT: 7.66 min Scan# 743
Delta R.T. 0.01 min
Lab File: BM016031.D
Acq: 23 Jul 2018 18:23

Tgt Ion	Ratio	Lower	Upper
93	100		
63	87.8	49.5	89.5
95	0.0	13.5	53.5#





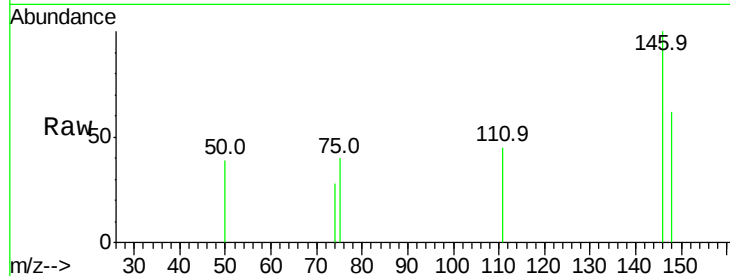
#12
 1,3-Dichlorobenzene
 Concen: 0.683 ng
 RT: 8.13 min Scan# 823
 Delta R.T. 0.01 min
 Lab File: BM016031.D
 Acq: 23 Jul 2018 18:23

Instrument :
 BNA_M
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
146	100		
148	61.7	50.9	76.3
75	39.9	21.4	32.2

Manual Integrations
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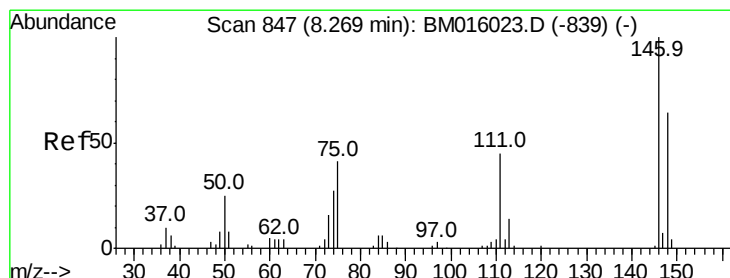
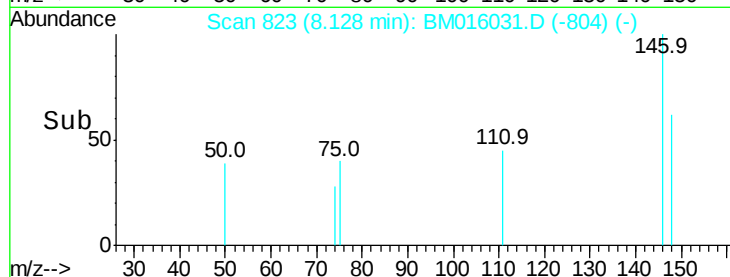
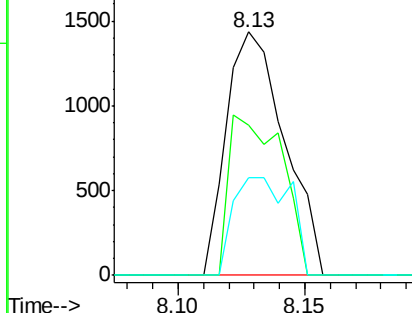


Abundance

Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 75.00 (74.70 to 75.70): BM



#13
 1,4-Dichlorobenzene
 Concen: 0.719 ng
 RT: 8.27 min Scan# 848
 Delta R.T. 0.01 min
 Lab File: BM016031.D
 Acq: 23 Jul 2018 18:23

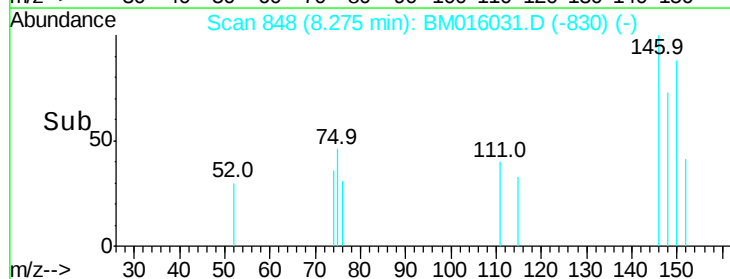
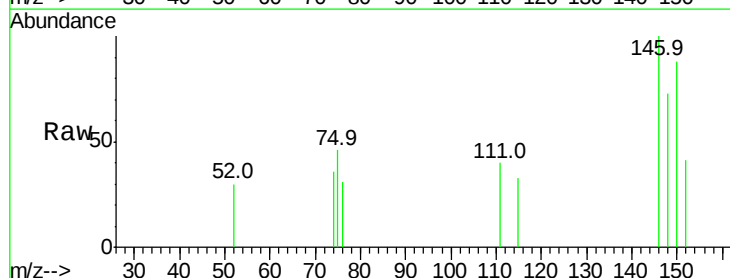
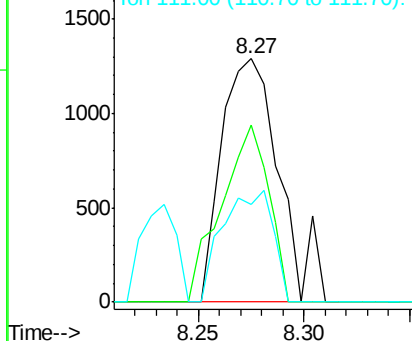
Tgt Ion	Ratio	Lower	Upper
146	100		
148	72.8	51.9	77.9
111	39.9	29.2	43.8

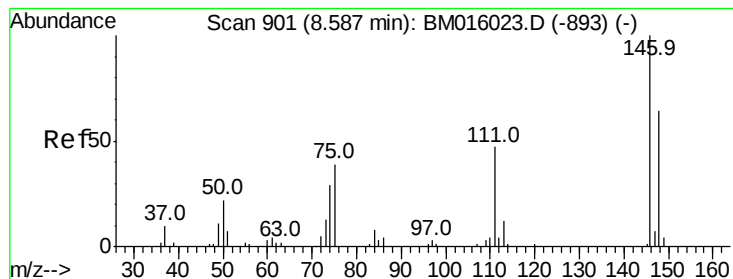
Abundance

Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E





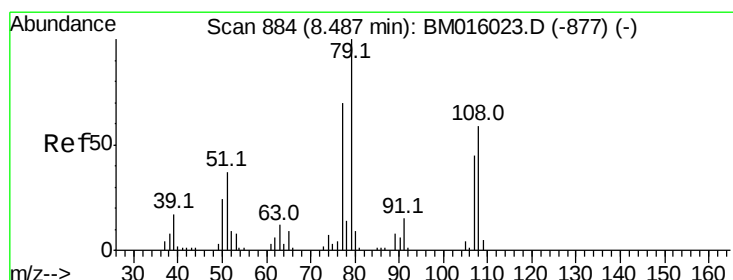
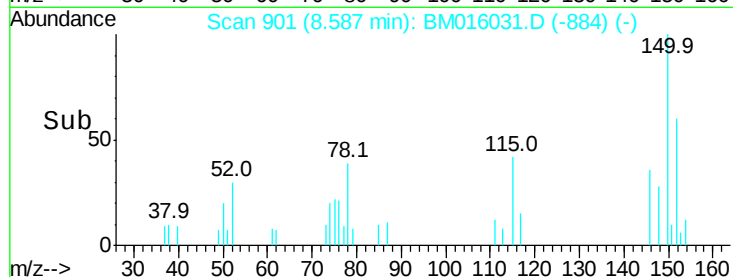
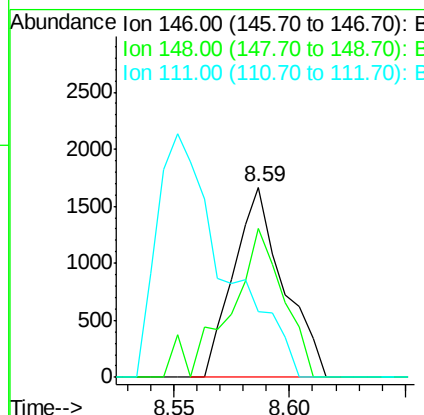
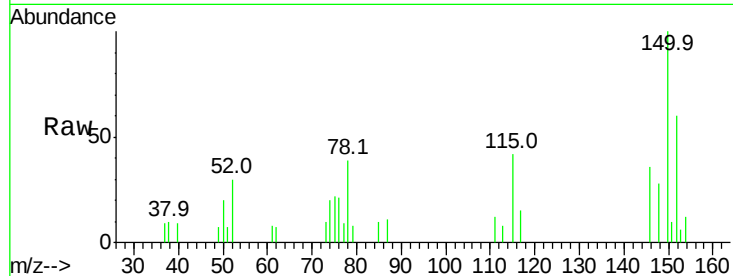
#14
 1,2-Dichlorobenzene
 Concen: 0.746 ng
 RT: 8.59 min Scan# 901
 Delta R.T. -0.00 min
 Lab File: BM016031.D
 Acq: 23 Jul 2018 18:23

Instrument :
 BNA_M
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
146	100		
148	78.1	52.3	78.5
111	34.6	30.6	45.8

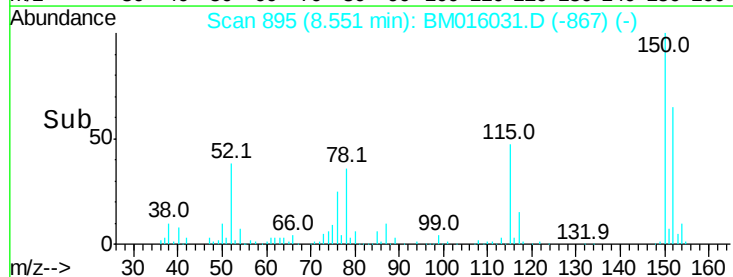
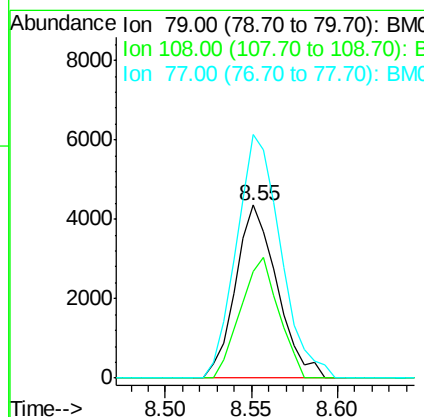
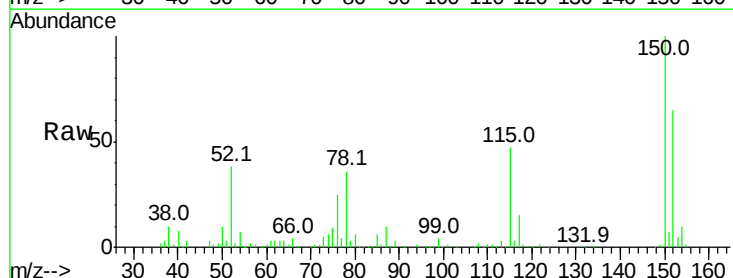
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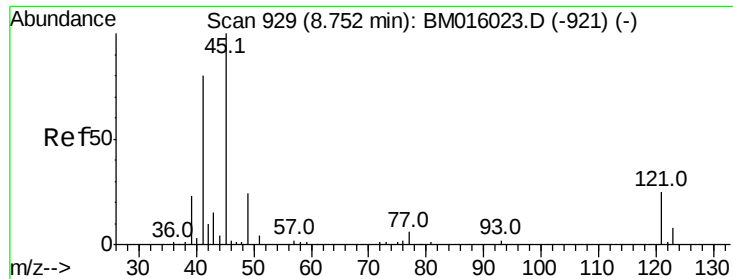
Sohil
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#15
 Benzyl Alcohol
 Concen: 2.917 ng m
 RT: 8.55 min Scan# 895
 Delta R.T. 0.06 min
 Lab File: BM016031.D
 Acq: 23 Jul 2018 18:23

Tgt Ion	Ratio	Lower	Upper
79	100		
108	61.9	65.0	97.4#
77	141.0	53.0	79.6#





#16

2,2'-oxvbis(1-Chloropropane)

Concen: 0.747 ng

RT: 8.77 min Scan# 932

Delta R.T. 0.02 min

Lab File: BM016031.D

Acq: 23 Jul 2018 18:23

Instrument :

BNA_M

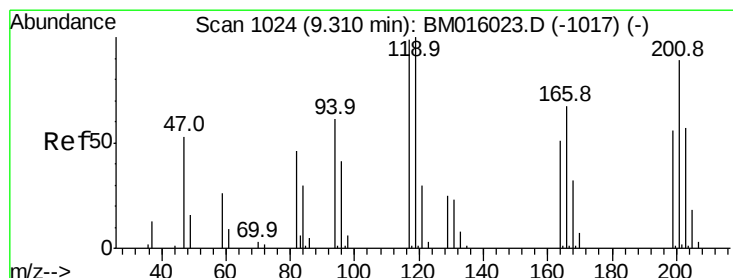
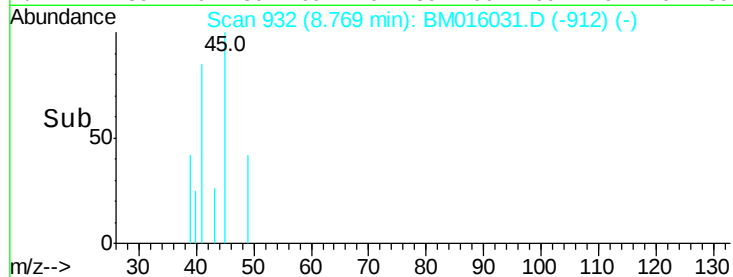
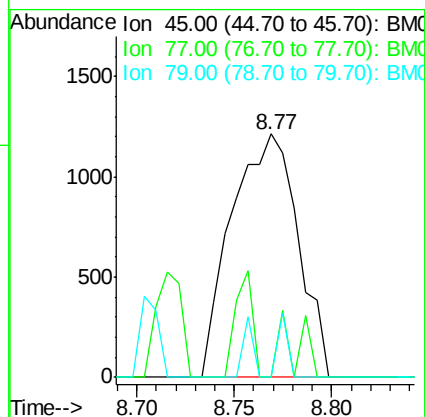
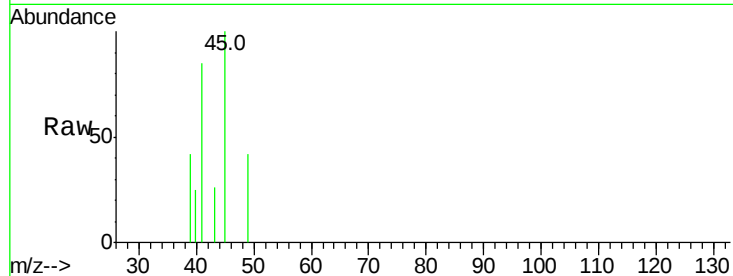
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion:	45	Resp:	2857
Ion Ratio	Lower	Upper	
45	100		
77	0.0	0.0	35.2
79	0.0	0.0	32.0

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#18

Hexachloroethane

Concen: 0.806 ng

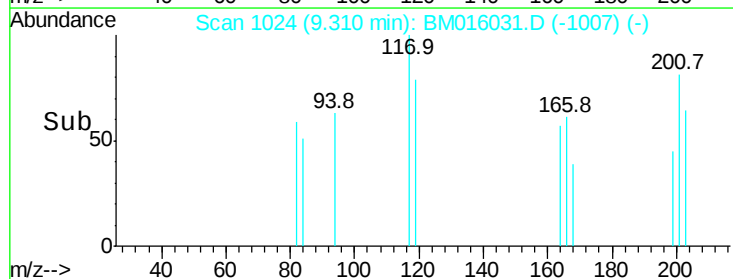
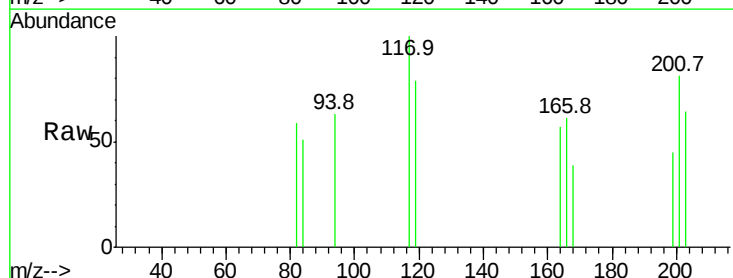
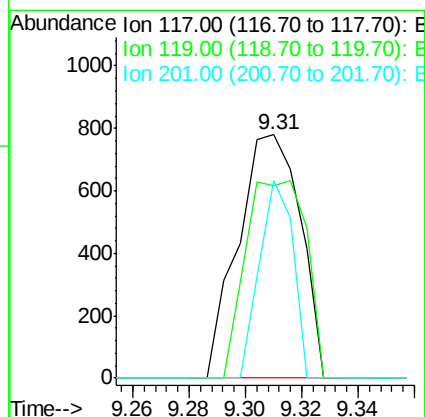
RT: 9.31 min Scan# 1024

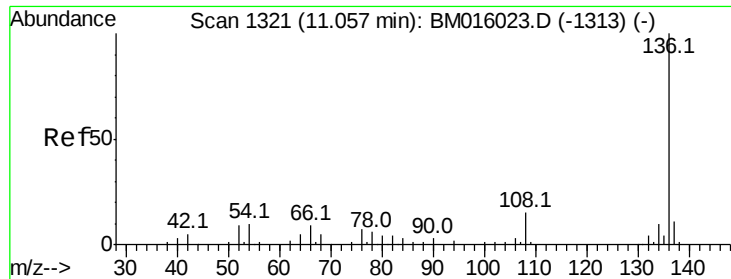
Delta R.T. -0.00 min

Lab File: BM016031.D

Acq: 23 Jul 2018 18:23

Tgt Ion:	117	Resp:	1191
Ion Ratio	Lower	Upper	
117	100		
119	79.1	79.2	118.8#
201	81.4	69.8	104.6





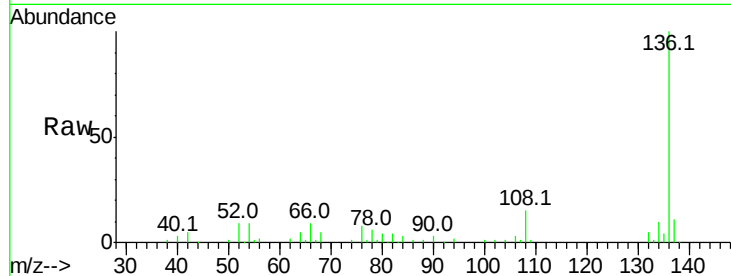
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.06 min Scan# 1321
Delta R.T. -0.00 min
Lab File: BM016031.D
Acq: 23 Jul 2018 18:23

Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

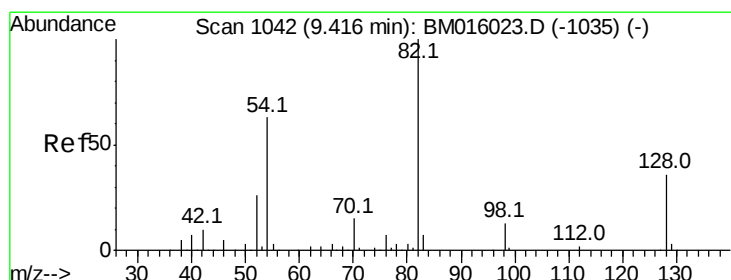
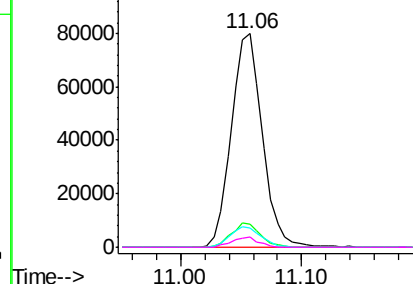
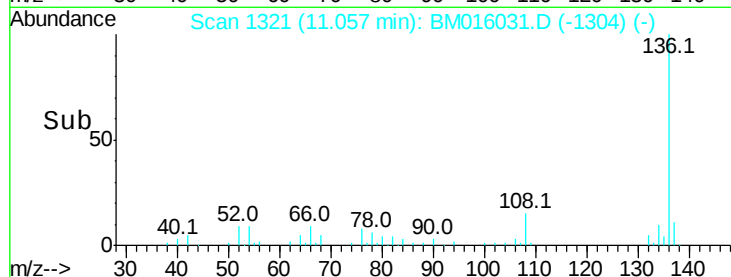
Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.8	8.7	13.1	
54	9.0	4.6	6.8	
68	4.6	3.7	5.5	

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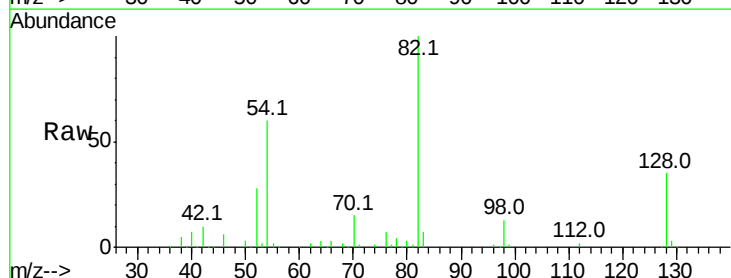


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BM
Ion 68.00 (67.70 to 68.70): BM

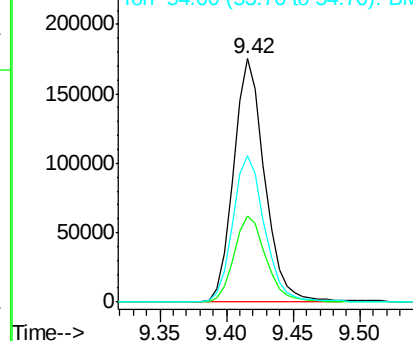
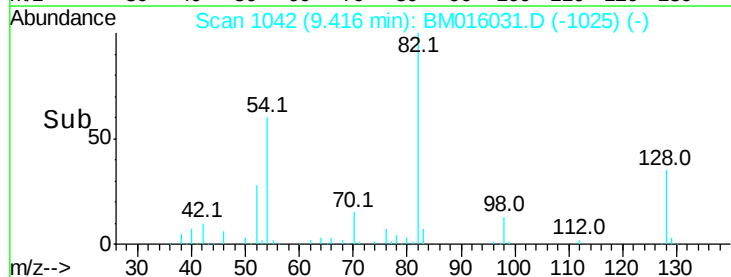


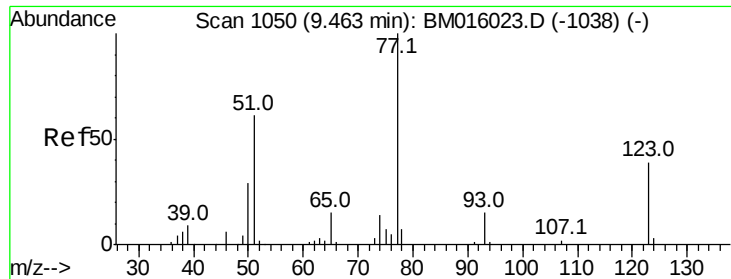
#23
Nitrobenzene-d5
Concen: N.D. ng
RT: 9.42 min Scan# 1042
Delta R.T. -0.00 min
Lab File: BM016031.D
Acq: 23 Jul 2018 18:23

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	35.2	32.8	49.2	
54	59.9	40.6	60.8	



Abundance Ion 82.00 (81.70 to 82.70): BM
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BM





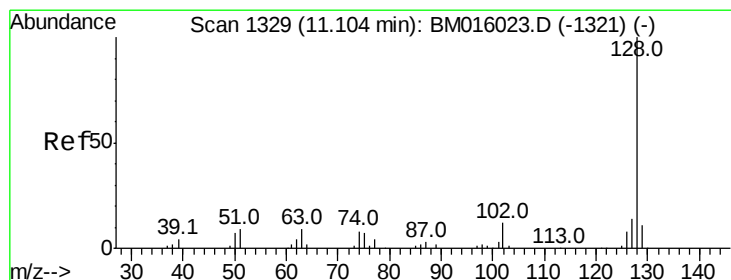
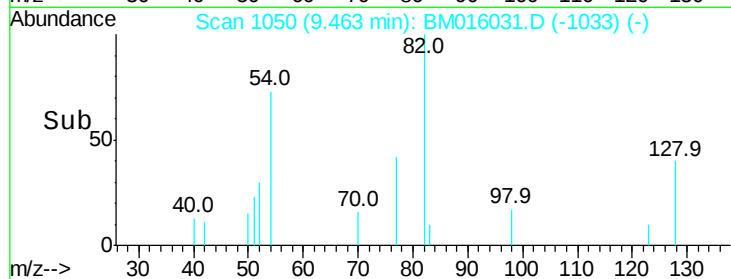
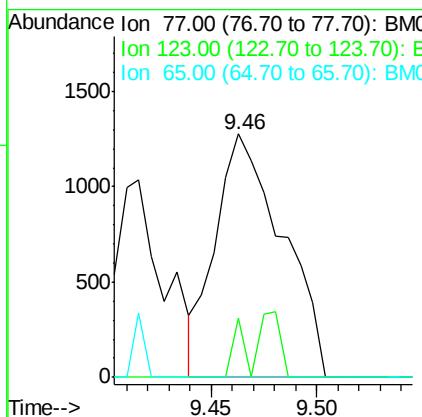
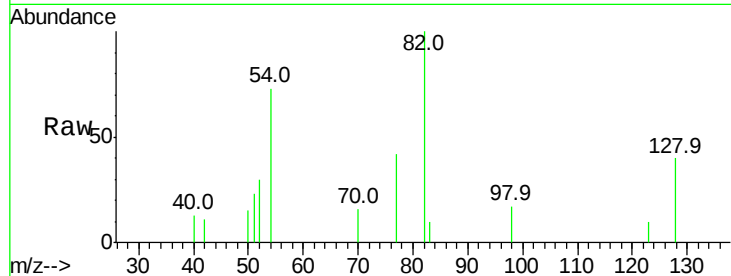
#24
 Nitrobenzene
 Concen: 0.913 ng
 RT: 9.46 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: BM016031.D
 Acq: 23 Jul 2018 18:23

Instrument :
 BNA_M
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
77	100		
123	24.5	32.6	49.0#
65	0.0	10.9	16.3#

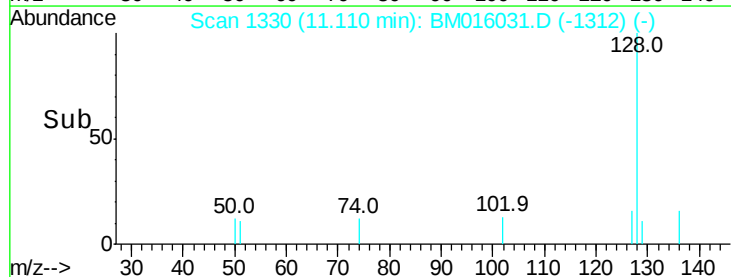
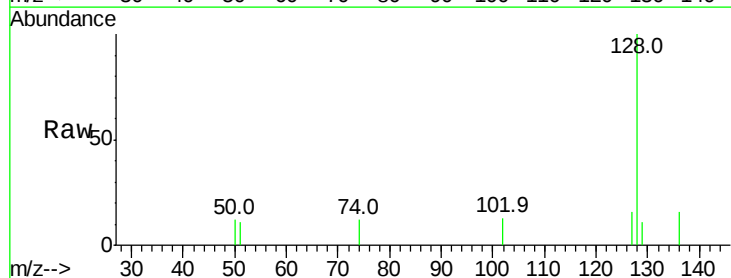
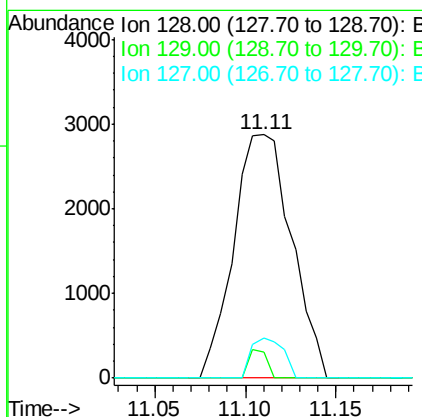
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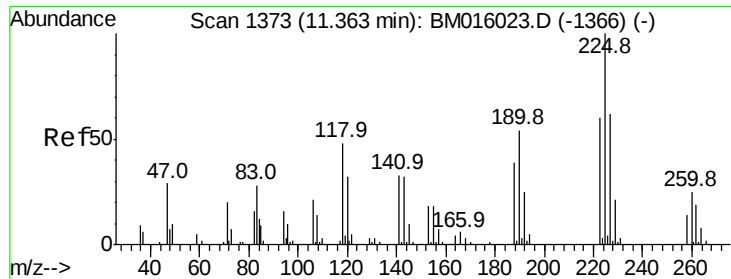
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#31
 Naphthalene
 Concen: 0.885 ng
 RT: 11.11 min Scan# 1330
 Delta R.T. 0.01 min
 Lab File: BM016031.D
 Acq: 23 Jul 2018 18:23

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.9	13.3
127	16.4	10.4	15.6#





#34

Hexachlorobutadiene

Concen: 0.803 ng

RT: 11.36 min Scan# 1372

Delta R.T. -0.01 min

Lab File: BM016031.D

Acq: 23 Jul 2018 18:23

Instrument :

BNA_M

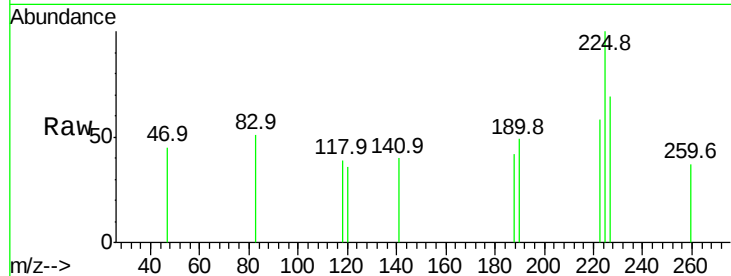
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

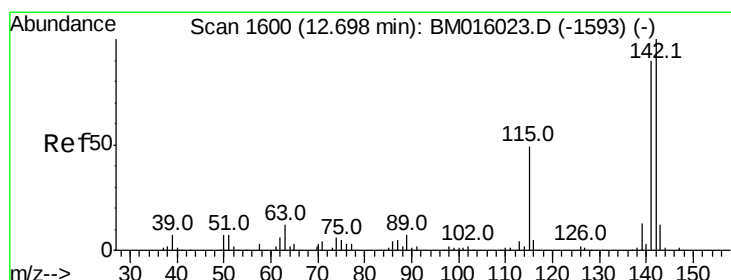
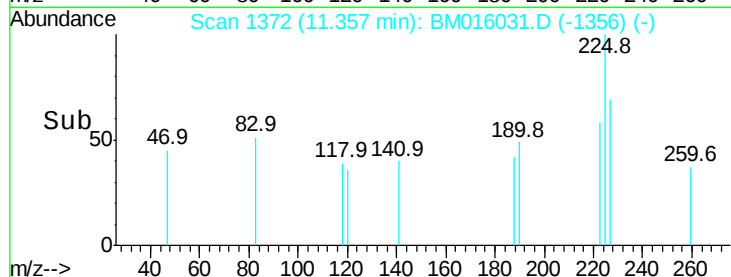
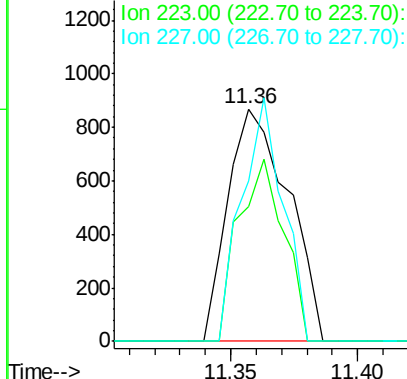
Tot Ion:	225	Resp:	1444
Ion Ratio	Lower	Upper	
225	100		
223	58.3	47.9	71.9
227	69.0	50.1	75.1

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Abundance Ion 225.00 (224.70 to 225.70): E
Ion 223.00 (222.70 to 223.70): E
Ion 227.00 (226.70 to 227.70): E



#37

2-Methylnaphthalene

Concen: 0.832 ng

RT: 12.71 min Scan# 1602

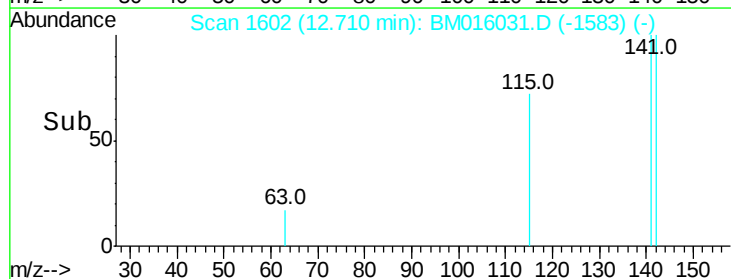
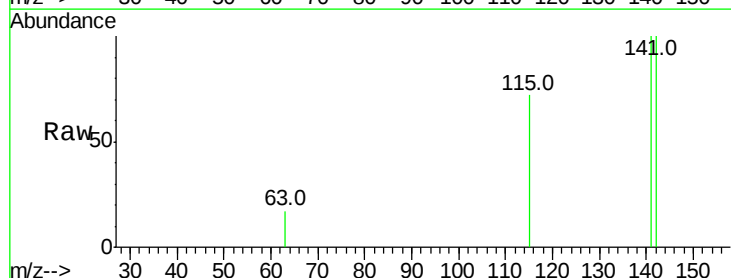
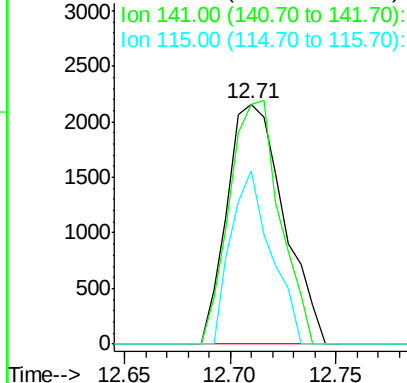
Delta R.T. 0.01 min

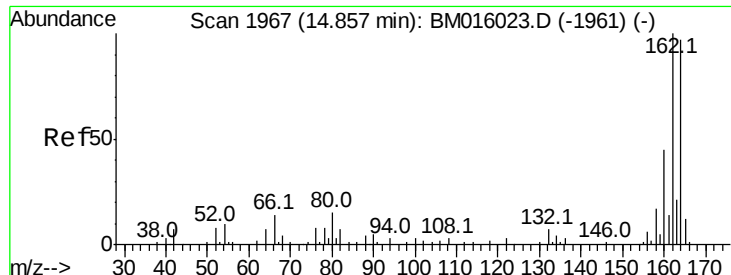
Lab File: BM016031.D

Acq: 23 Jul 2018 18:23

Tgt Ion:	142	Resp:	4021
Ion Ratio	Lower	Upper	
142	100		
141	99.8	71.9	107.9
115	71.9	25.4	38.0#

Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E





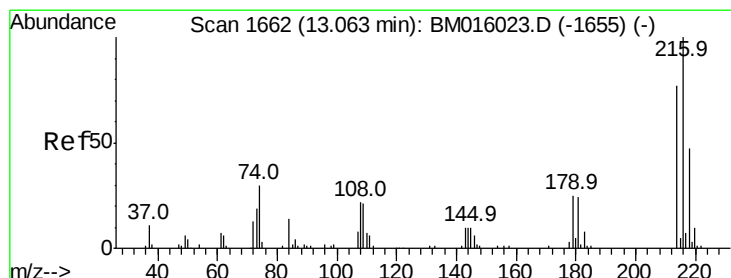
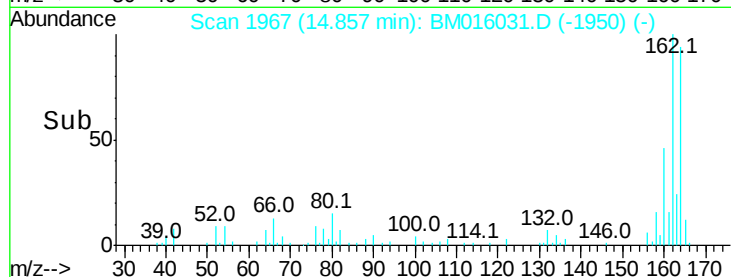
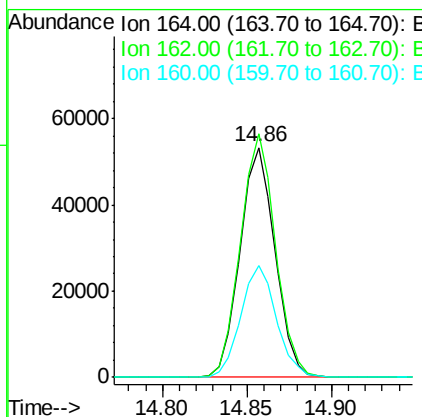
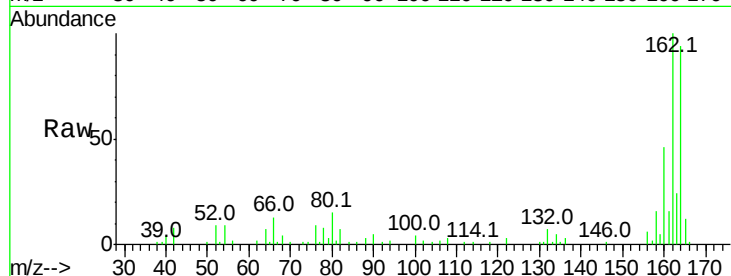
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.86 min Scan# 1967
Delta R.T. -0.00 min
Lab File: BM016031.D
Acq: 23 Jul 2018 18:23

Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
164	100		
162	106.0	82.4	123.6
160	48.9	35.8	53.6

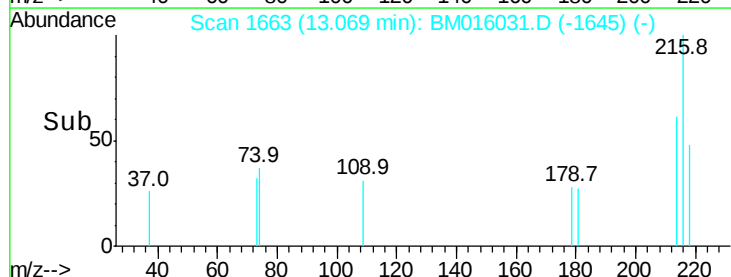
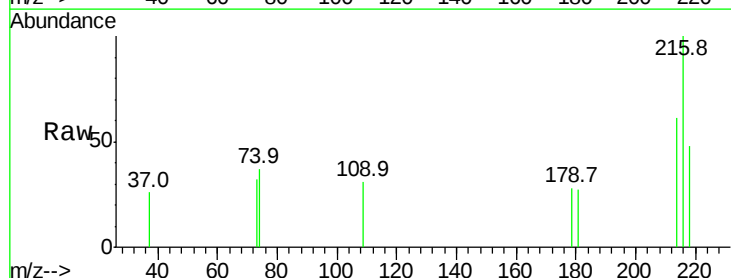
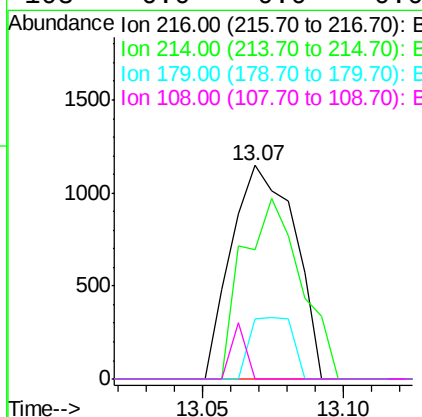
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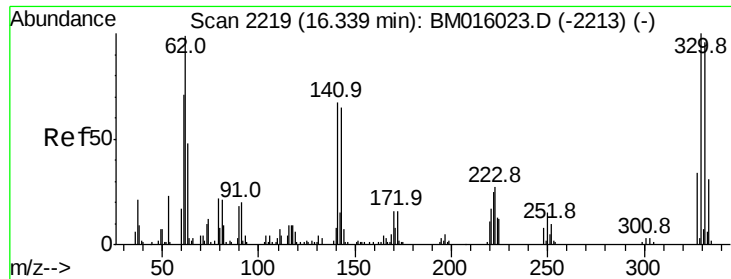
Sohil
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#39
1,2,4,5-Tetrachlorobenzene
Concen: 0.684 ng
RT: 13.07 min Scan# 1663
Delta R.T. 0.01 min
Lab File: BM016031.D
Acq: 23 Jul 2018 18:23

Tgt Ion	Ratio	Lower	Upper
216	100		
214	77.6	0.0	0.0#
179	19.3	0.0	0.0#
108	6.0	0.0	0.0#





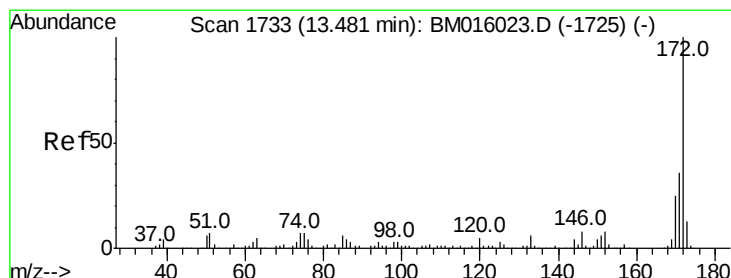
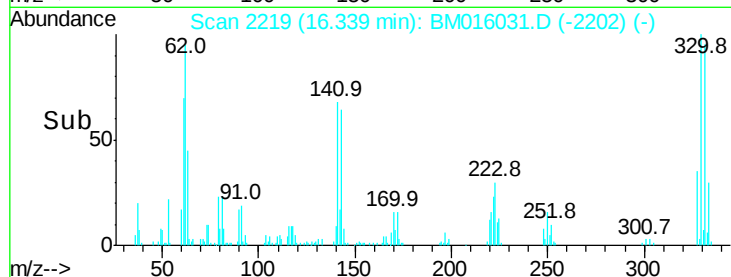
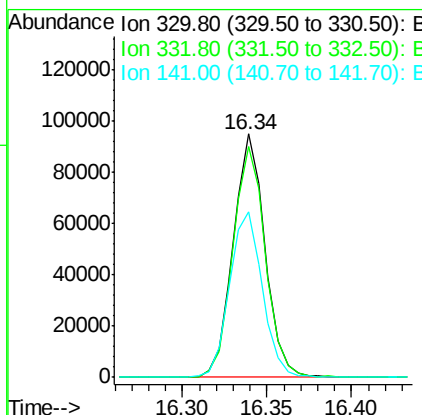
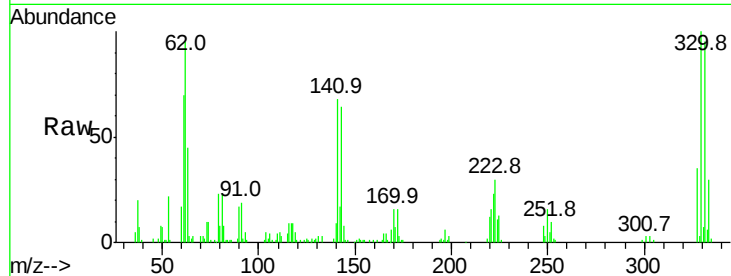
#41
 2,4,6-Tribromophenol
 Concen: N.D. ng
 RT: 16.34 min Scan# 2219
 Delta R.T. -0.00 min
 Lab File: BM016031.D
 Acq: 23 Jul 2018 18:23

Instrument :
 BNA_M
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Resp Lower	Resp Upper
330	100		
332	96.4	0.0	0.0#
141	70.2	0.0	0.0#

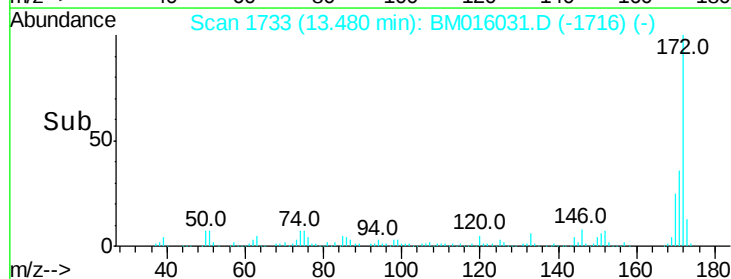
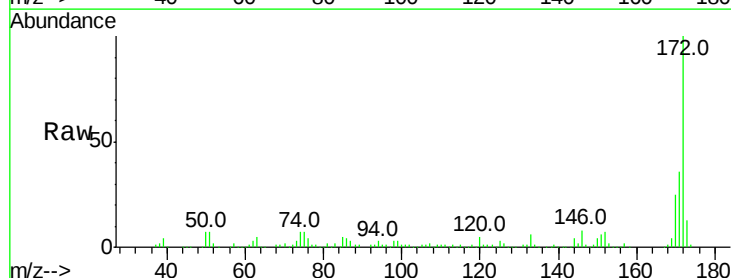
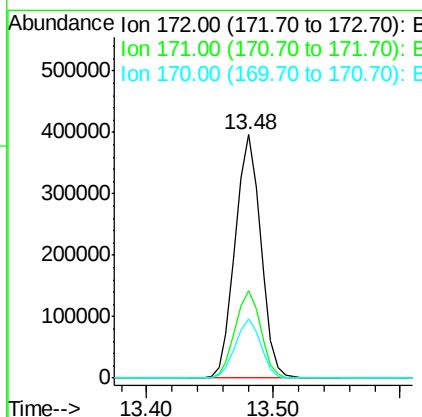
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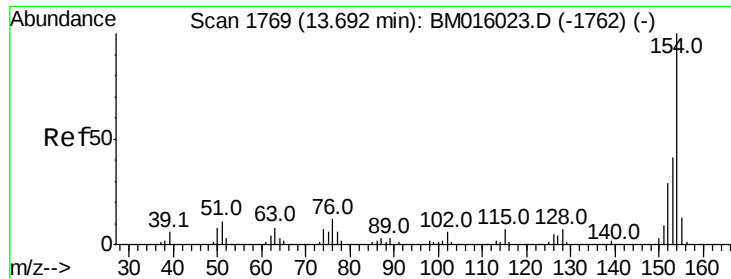
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#44
 2-Fluorobiphenyl
 Concen: N.D. ng
 RT: 13.48 min Scan# 1733
 Delta R.T. -0.00 min
 Lab File: BM016031.D
 Acq: 23 Jul 2018 18:23

Tgt Ion	Ratio	Resp Lower	Resp Upper
172	100		
171	36.1	28.5	42.7
170	24.5	18.8	28.2





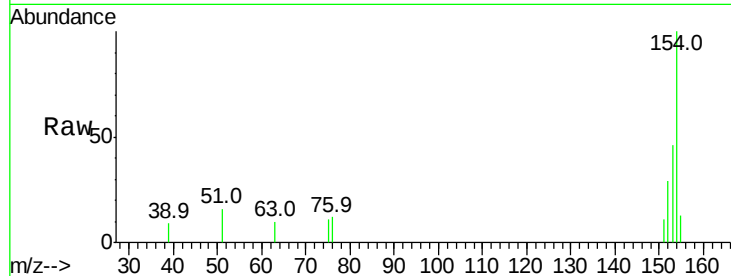
#45
 1,1'-Biphenyl
 Concen: 0.869 ng
 RT: 13.70 min Scan# 1770
 Delta R.T. 0.01 min
 Lab File: BM016031.D
 Acq: 23 Jul 2018 18:23

Instrument :
 BNA_M
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

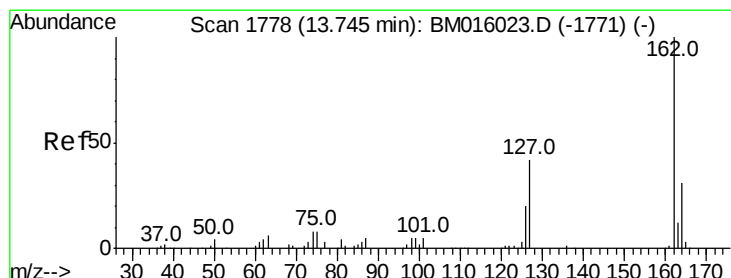
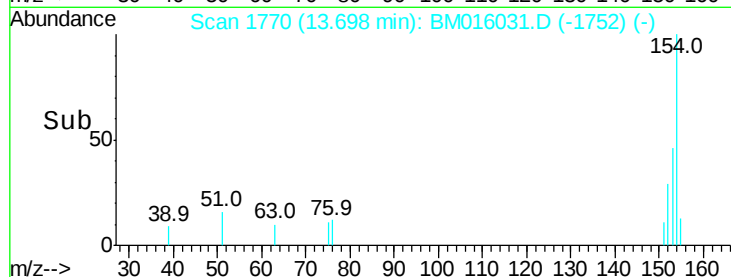
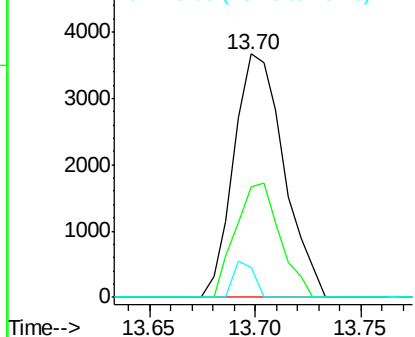
Tot Ion	Ratio	Lower	Upper
154	100		
153	45.6	20.7	60.7
76	12.2	0.0	30.9

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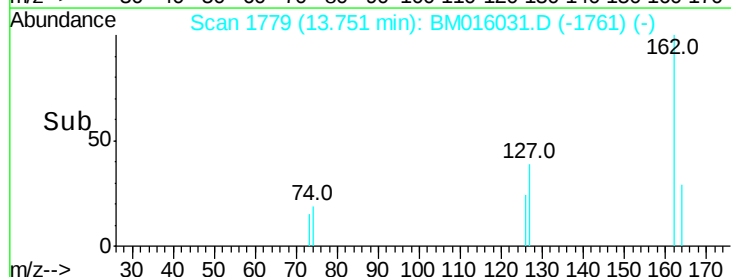
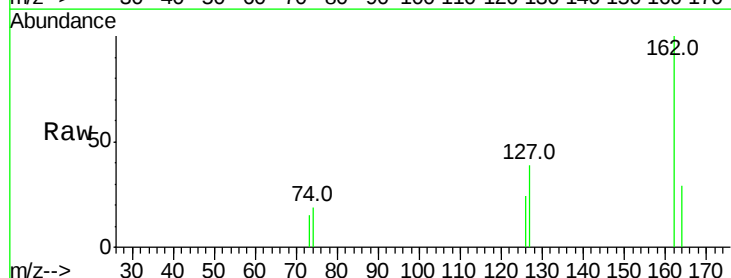
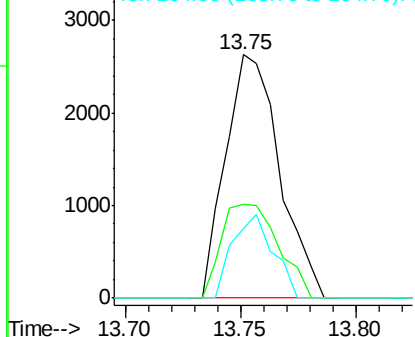
Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BM

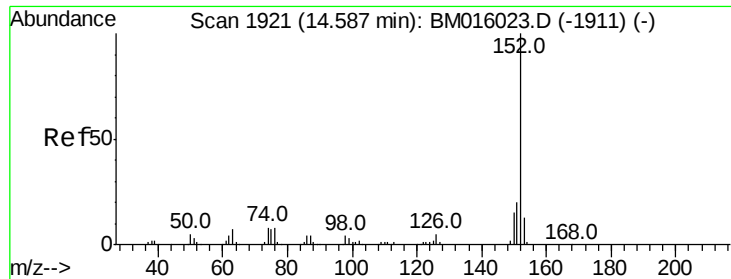


#46
 2-Chloronaphthalene
 Concen: 0.792 ng
 RT: 13.75 min Scan# 1779
 Delta R.T. 0.01 min
 Lab File: BM016031.D
 Acq: 23 Jul 2018 18:23

Tgt Ion	Ratio	Lower	Upper
162	100		
127	38.7	26.9	40.3
164	28.5	26.8	40.2

Abundance Ion 162.00 (161.70 to 162.70): E
 Ion 127.00 (126.70 to 127.70): E
 Ion 164.00 (163.70 to 164.70): E





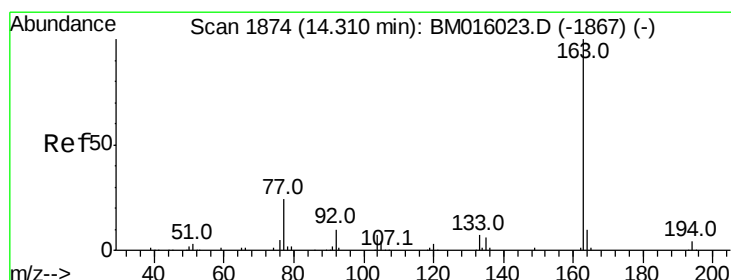
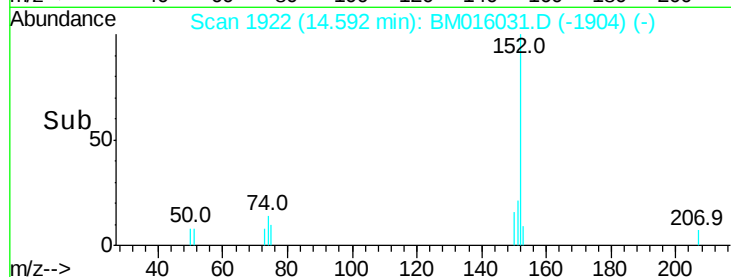
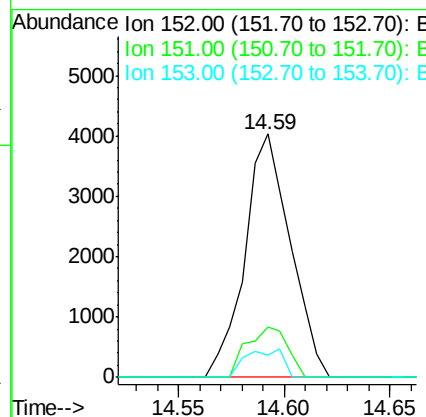
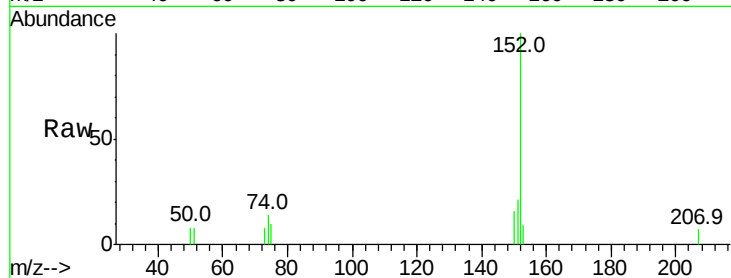
#48
Acenaphthylene
Concen: 0.766 ng
RT: 14.59 min Scan# 1922
Delta R.T. 0.01 min
Lab File: BM016031.D
Acq: 23 Jul 2018 18:23

Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.7	15.9	23.9
153	9.3	10.6	16.0

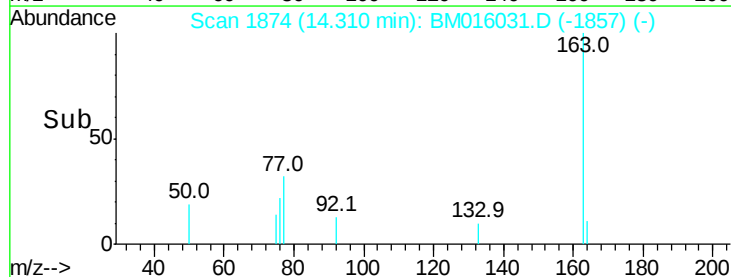
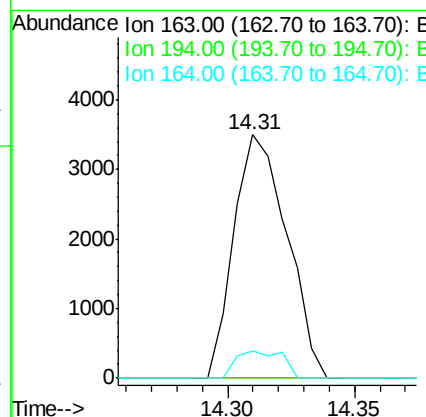
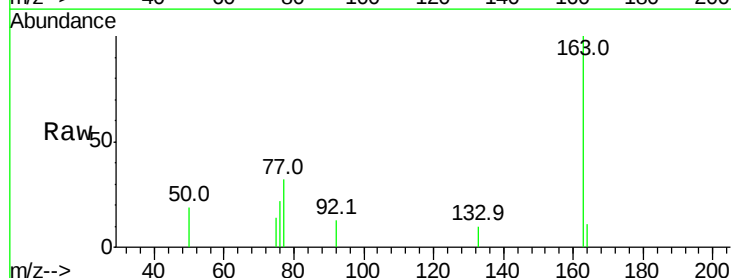
Manual Integrations
APPROVED

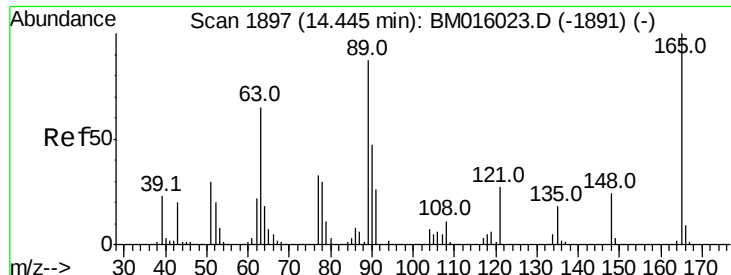
Sohil
7/24/2018 5:28:50 PM



#49
Dimethylphthalate
Concen: 0.757 ng
RT: 14.31 min Scan# 1874
Delta R.T. -0.00 min
Lab File: BM016031.D
Acq: 23 Jul 2018 18:23

Tgt Ion	Ratio	Lower	Upper
163	100		
194	0.0	2.7	4.1
164	11.2	8.2	12.2





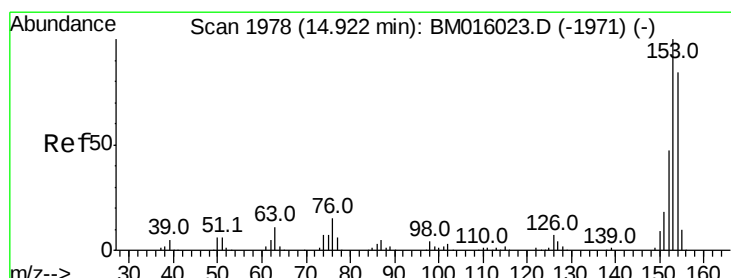
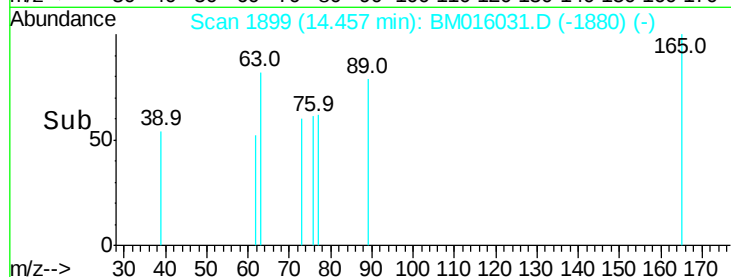
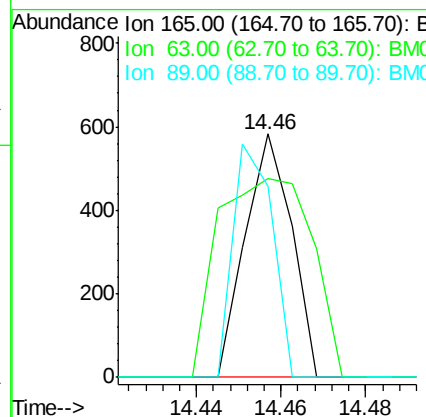
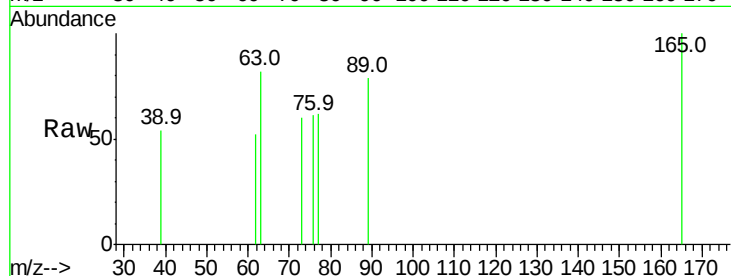
#50
 2,6-Dinitrotoluene
 Concen: 0.329 ng
 RT: 14.46 min Scan# 1899
 Delta R.T. 0.01 min
 Lab File: BM016031.D
 Acq: 23 Jul 2018 18:23

Instrument :
 BNA_M
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
165	100		
63	81.8	44.1	66.1#
89	78.7	44.3	66.5#

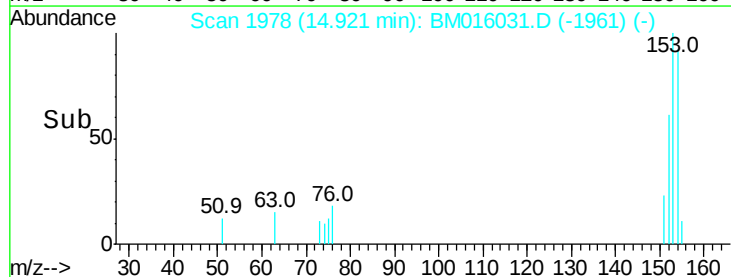
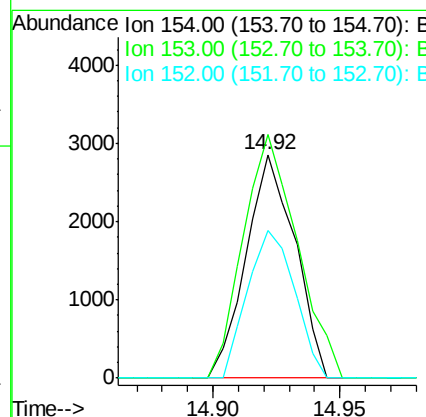
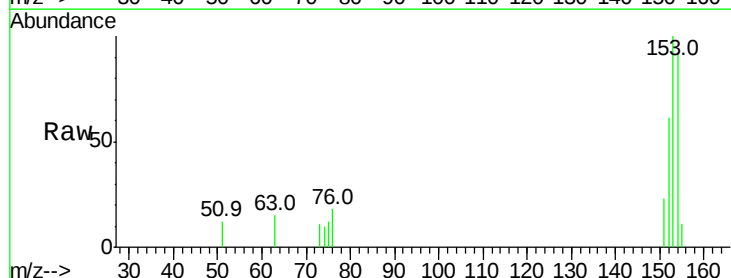
Manual Integrations
 APPROVED

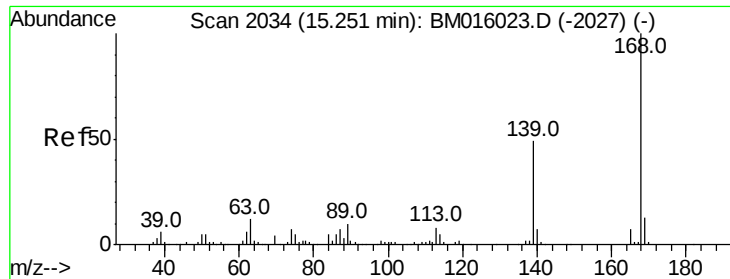
Sohil
 7/24/2018 5:28:50 PM



#51
 Acenaphthene
 Concen: 0.786 ng
 RT: 14.92 min Scan# 1978
 Delta R.T. -0.00 min
 Lab File: BM016031.D
 Acq: 23 Jul 2018 18:23

Tgt Ion	Ratio	Lower	Upper
154	100		
153	108.9	90.0	135.0
152	66.2	42.6	63.8#





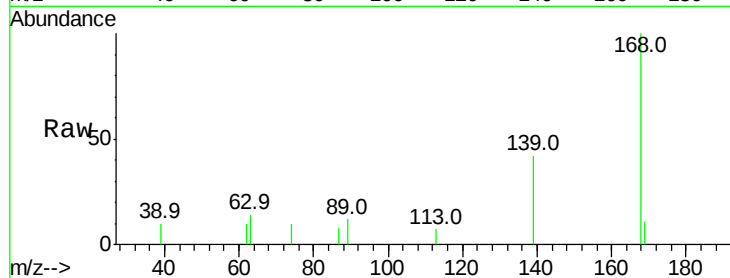
#54
Dibenzenofuran
Concen: 0.810 ng
RT: 15.26 min Scan# 2036
Delta R.T. 0.01 min
Lab File: BM016031.D
Acq: 23 Jul 2018 18:23

Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

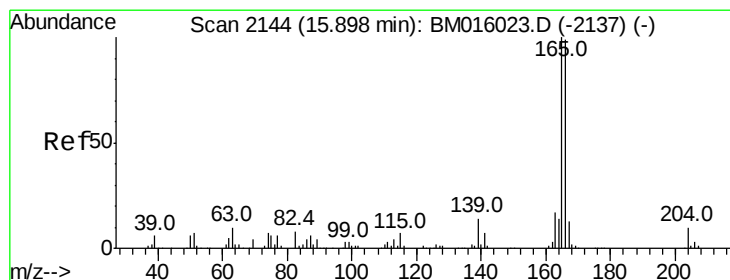
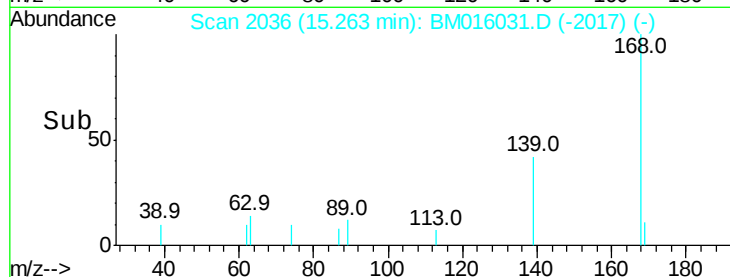
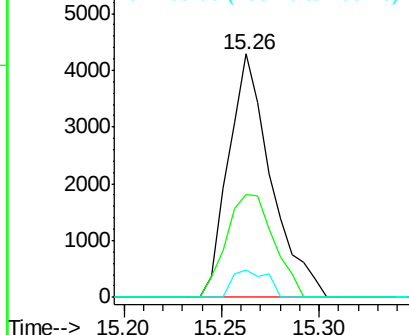
Tot Ion	Ratio	Lower	Upper
168	100		
139	42.4	27.3	40.9#
169	11.2	10.6	16.0

Manual Integrations
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Sohil
7/24/2018 5:28:50 PM



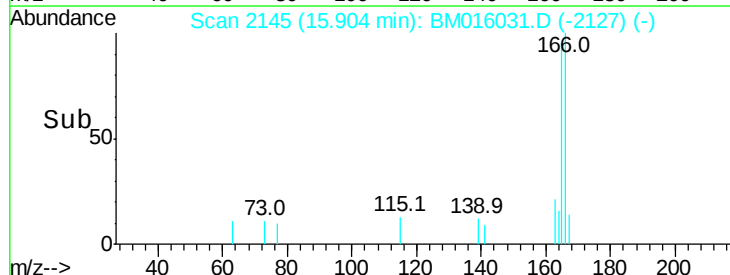
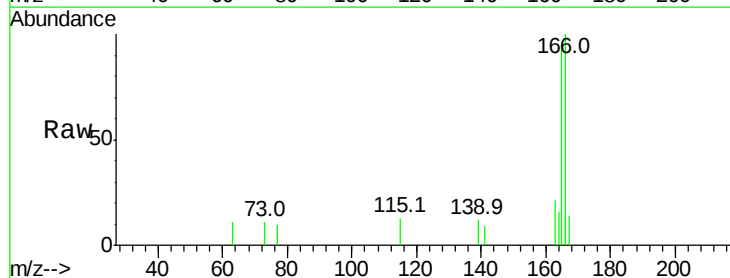
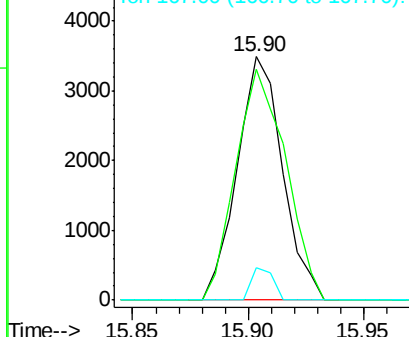
Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

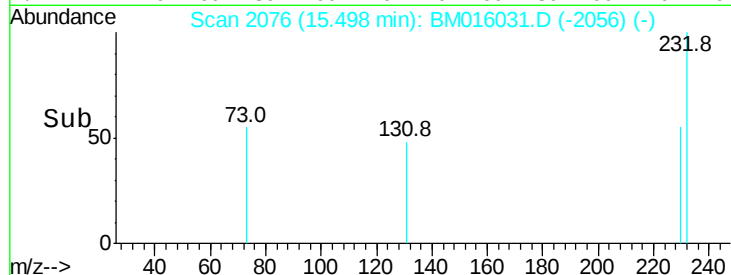
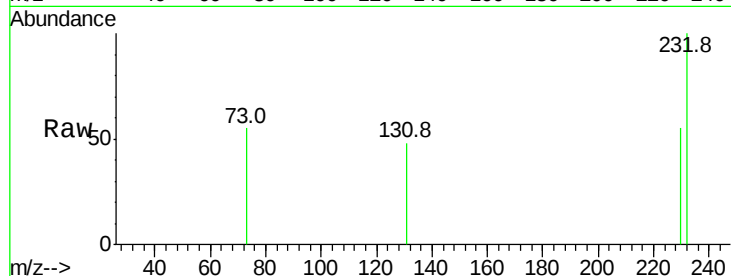
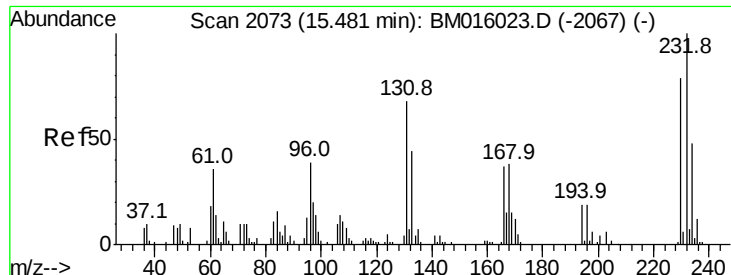


#57
Fluorene
Concen: 0.805 ng
RT: 15.90 min Scan# 2145
Delta R.T. 0.01 min
Lab File: BM016031.D
Acq: 23 Jul 2018 18:23

Tgt Ion	Ratio	Lower	Upper
166	100		
165	94.9	79.0	118.4
167	13.5	10.3	15.5

Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





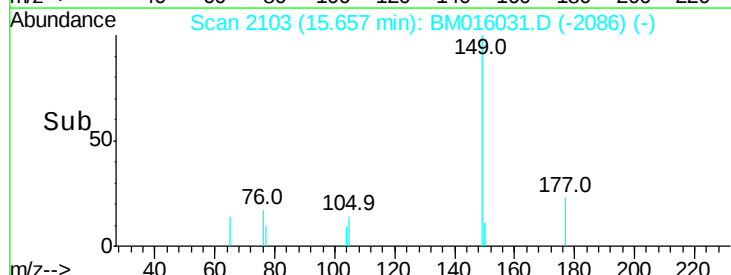
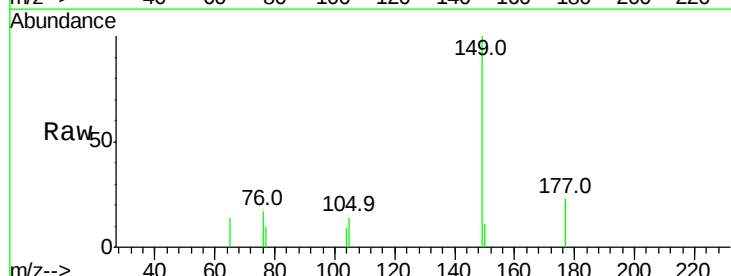
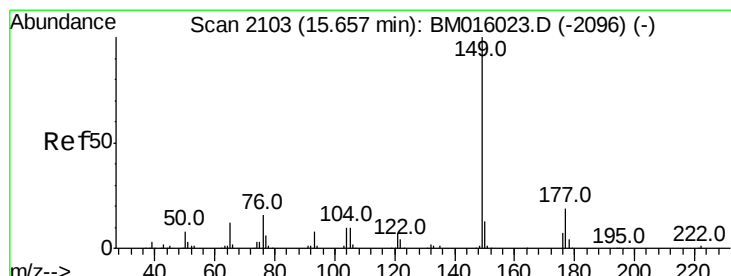
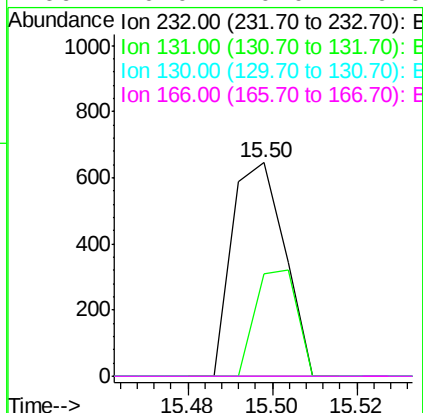
#58
2,3,4,6-Tetrachlorophenol
Concen: 0.384 ng
RT: 15.50 min Scan# 2076
Delta R.T. 0.02 min
Lab File: BM016031.D
Acq: 23 Jul 2018 18:23

Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
232	100		
131	40.2	0.0	0.0#
130	0.0	0.0	0.0
166	0.0	0.0	0.0

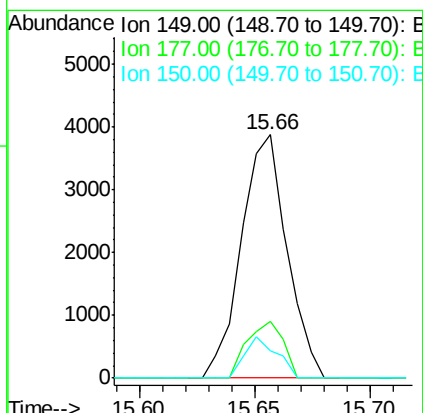
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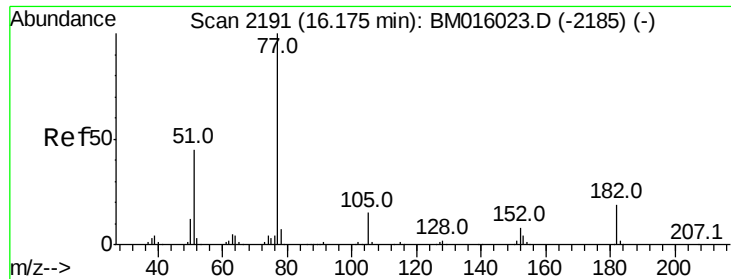
Sohil
7/24/2018 5:28:50 PM



#59
Diethylphthalate
Concen: 0.737 ng
RT: 15.66 min Scan# 2103
Delta R.T. -0.00 min
Lab File: BM016031.D
Acq: 23 Jul 2018 18:23

Tgt Ion	Ratio	Lower	Upper
149	100		
177	23.4	18.3	27.5
150	11.4	9.8	14.8





#62

Azobenzene

Concen: 0.611 ng

RT: 16.18 min Scan# 2192

Delta R.T. 0.01 min

Lab File: BM016031.D

Acq: 23 Jul 2018 18:23

Instrument :

BNA_M

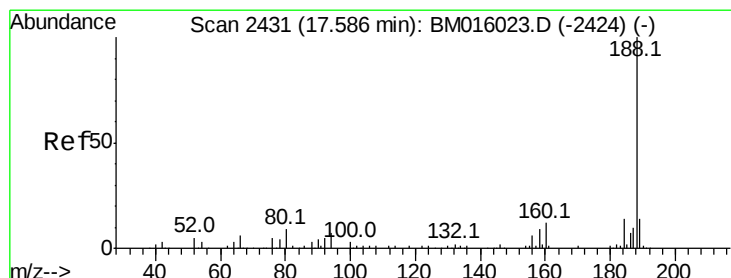
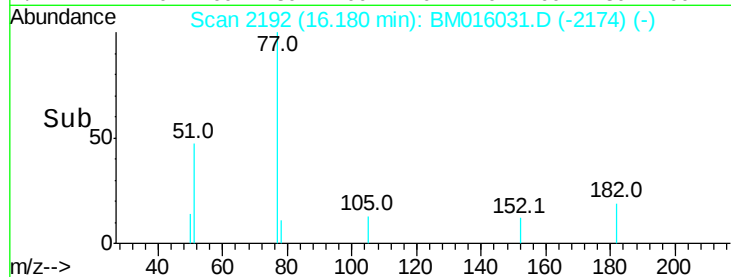
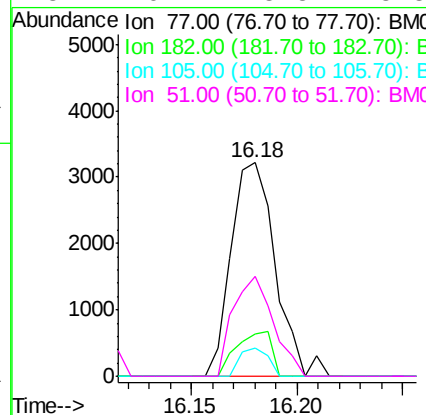
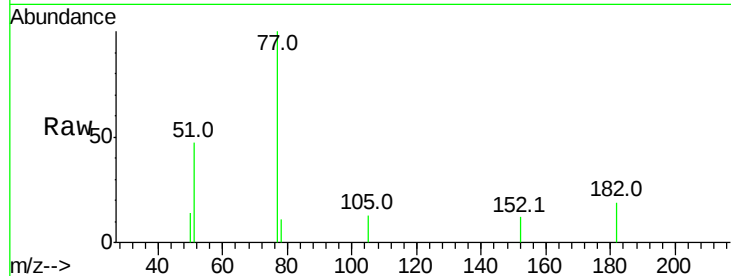
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ion	Ratio	Lower	Upper
77	100			
182	19.5	6.5	46.5	
105	13.5	3.8	43.8	
51	46.7	5.5	45.5#	

Manual Integrations
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7/24/2018 5:28:50 PM



#63

Phenanthrene-d10

Concen: 20.000 ng

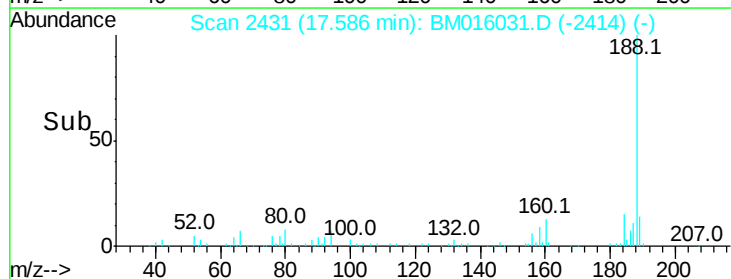
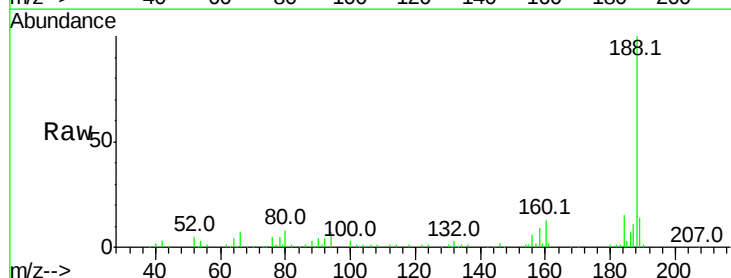
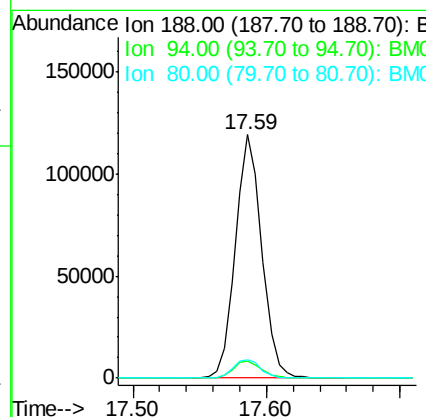
RT: 17.59 min Scan# 2431

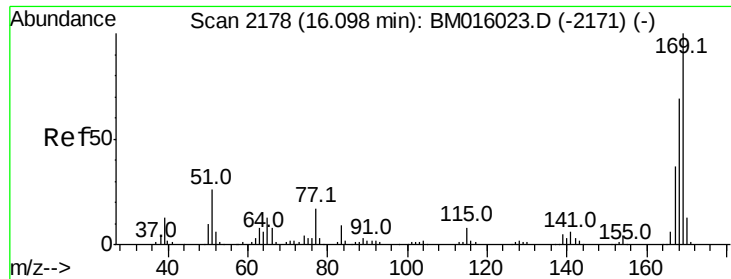
Delta R.T. -0.00 min

Lab File: BM016031.D

Acq: 23 Jul 2018 18:23

Tgt Ion	Ion	Ratio	Lower	Upper
188	100			
94	7.0	8.7	13.1#	
80	7.6	9.3	13.9#	





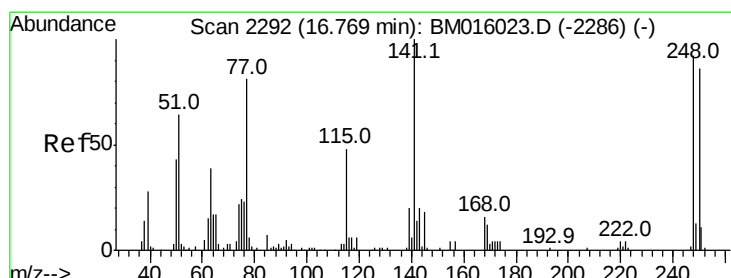
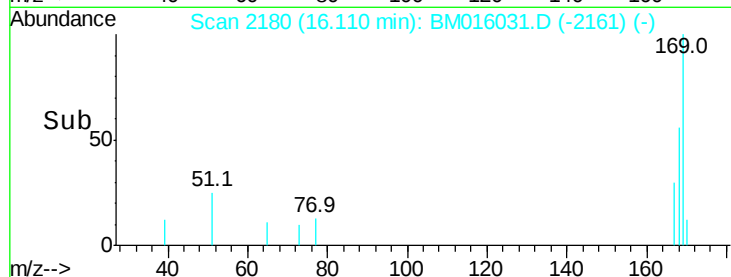
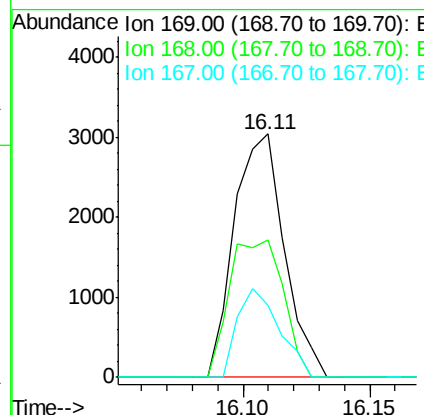
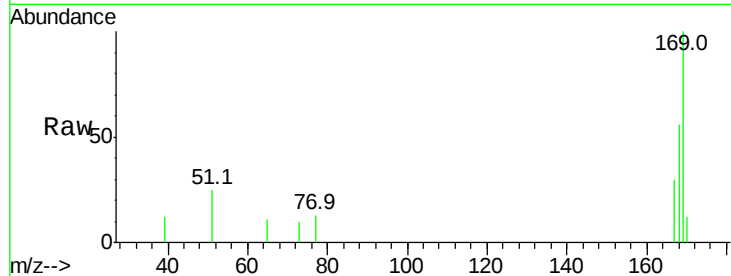
#65
 n-Nitrosodiphenylamine
 Concen: 0.774 ng
 RT: 16.11 min Scan# 2180
 Delta R.T. 0.01 min
 Lab File: BM016031.D
 Acq: 23 Jul 2018 18:23

Instrument :
 BNA_M
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
169	100		
168	56.3	53.9	80.9
167	29.6	28.9	43.3

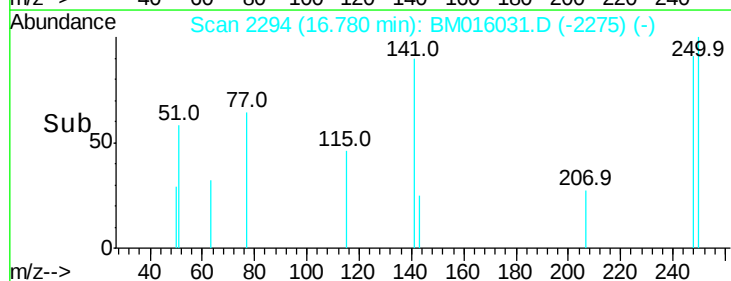
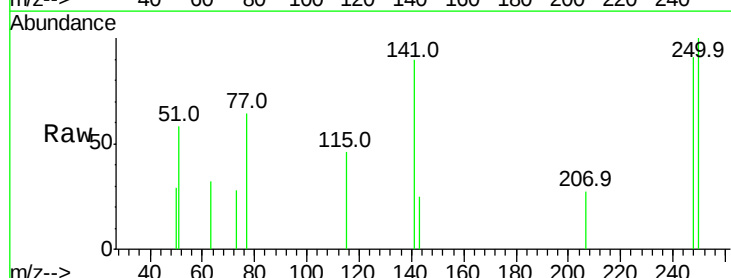
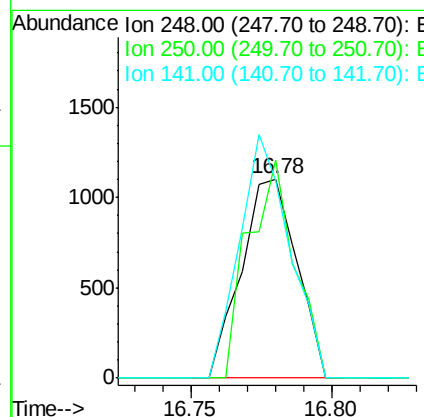
Manual Integrations
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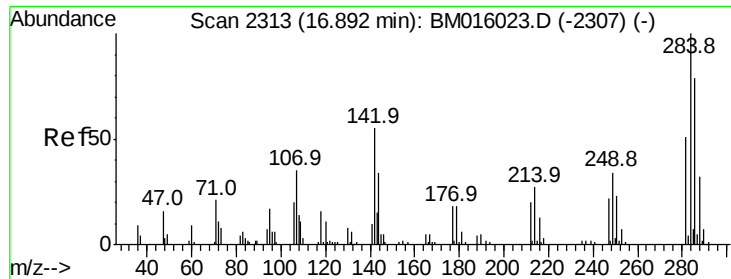
Sohil
 7/24/2018 5:28:50 PM



#66
 4-Bromophenyl-phenylether
 Concen: 0.805 ng
 RT: 16.78 min Scan# 2294
 Delta R.T. 0.01 min
 Lab File: BM016031.D
 Acq: 23 Jul 2018 18:23

Tgt Ion	Ratio	Lower	Upper
248	100		
250	109.6	77.4	116.0
141	99.1	45.2	67.8





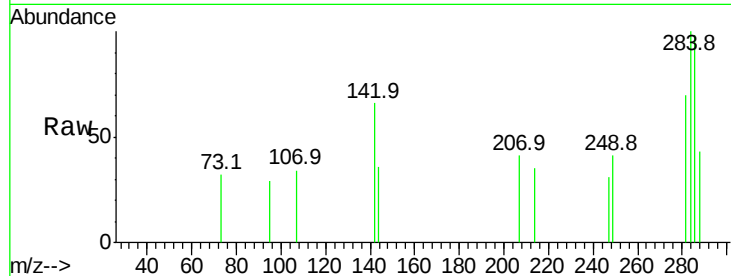
#67
Hexachlorobenzene
Concen: 0.726 ng
RT: 16.90 min Scan# 2314
Delta R.T. 0.01 min
Lab File: BM016031.D
Acq: 23 Jul 2018 18:23

Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
284	100		
142	65.8	20.4	30.6#
249	41.3	23.8	35.6#

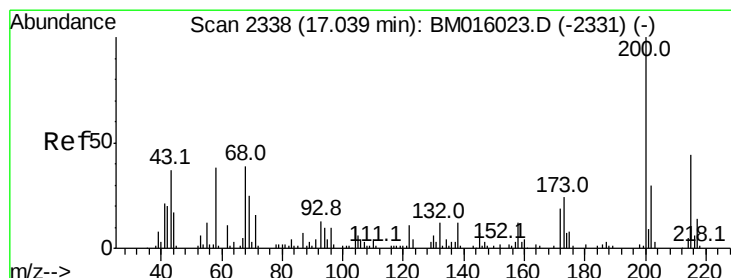
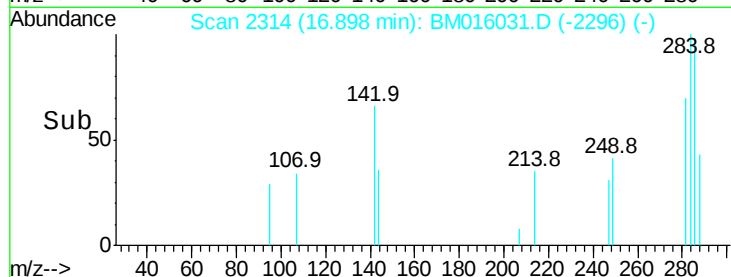
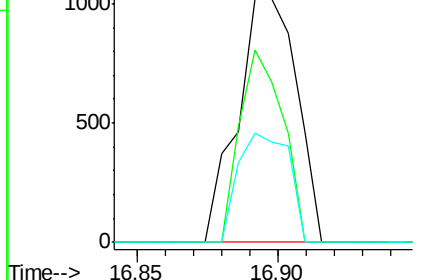
Manual Integrations
APPROVED

Sohil
7/24/2018 5:28:50 PM



Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

16.90

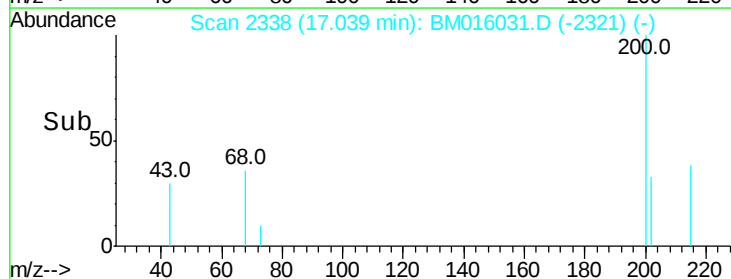
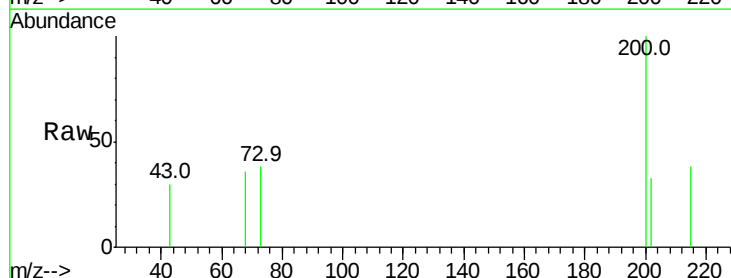
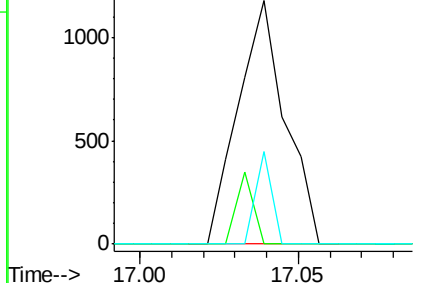


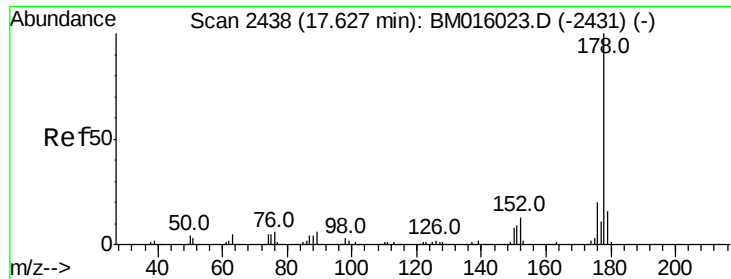
#68
Atrazine
Concen: 0.625 ng
RT: 17.04 min Scan# 2338
Delta R.T. -0.00 min
Lab File: BM016031.D
Acq: 23 Jul 2018 18:23

Tgt Ion	Ratio	Lower	Upper
200	100		
173	0.0	4.8	44.8#
215	37.8	26.9	66.9

Abundance Ion 200.00 (199.70 to 200.70): E
Ion 173.00 (172.70 to 173.70): E
Ion 215.00 (214.70 to 215.70): E

17.04





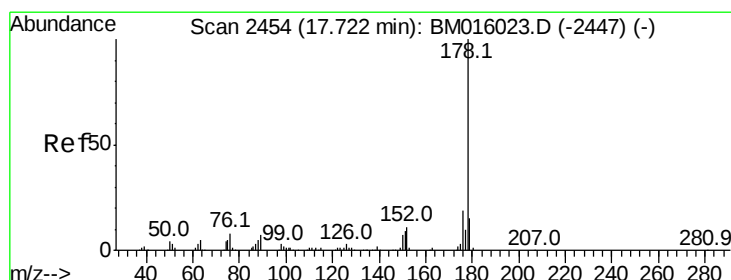
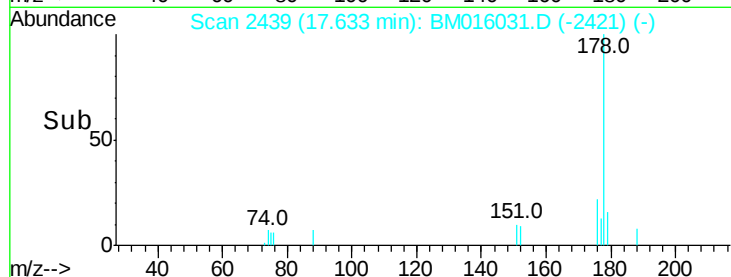
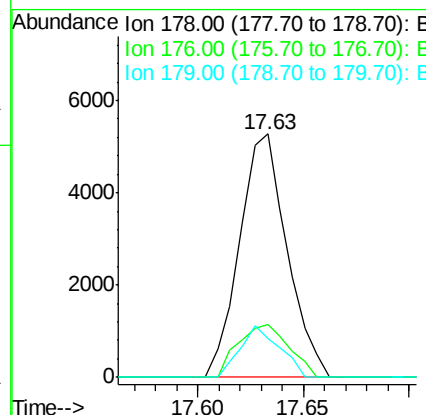
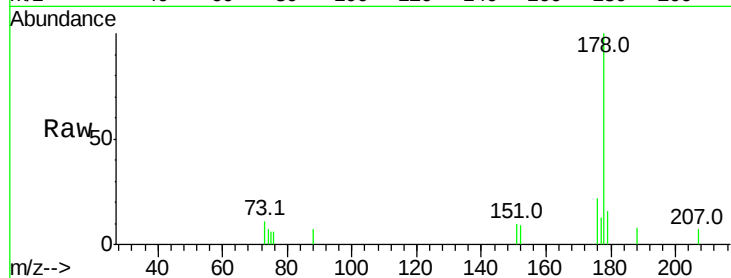
#70
Phenanthrene
Concen: 0.893 ng
RT: 17.63 min Scan# 2439
Delta R.T. 0.01 min
Lab File: BM016031.D
Acq: 23 Jul 2018 18:23

Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
178	100		
176	21.8	15.2	22.8
179	15.7	12.1	18.1

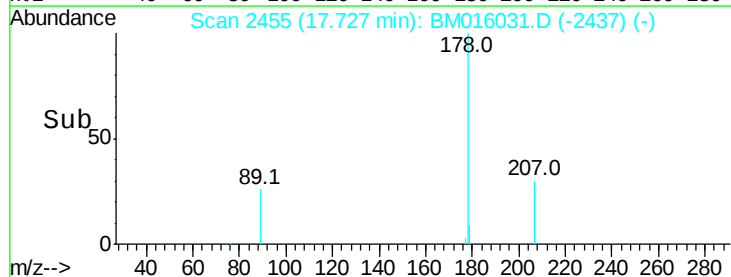
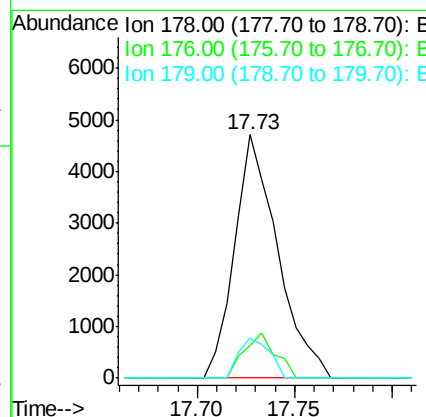
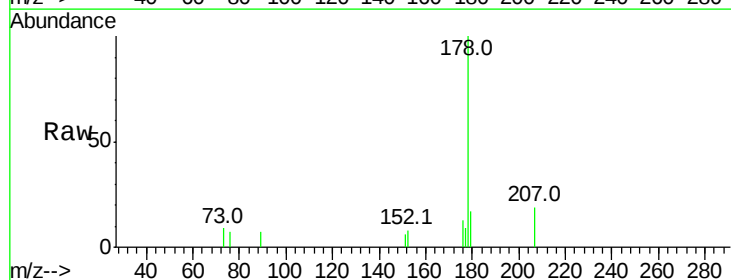
Manual Integrations
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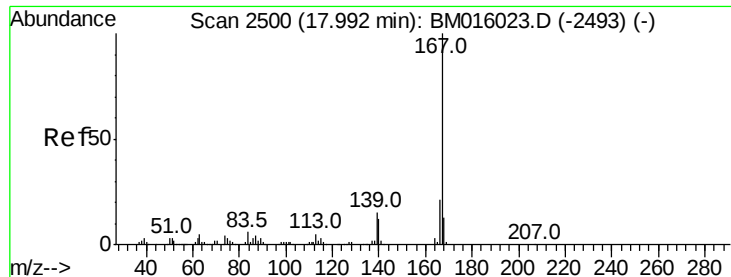
Sohil
7/24/2018 5:28:50 PM



#71
Anthracene
Concen: 0.807 ng
RT: 17.73 min Scan# 2455
Delta R.T. 0.01 min
Lab File: BM016031.D
Acq: 23 Jul 2018 18:23

Tgt Ion	Ratio	Lower	Upper
178	100		
176	13.4	14.6	22.0#
179	16.6	12.6	19.0





#72

Carbazole

Concen: 0.644 ng

RT: 18.01 min Scan# 2503

Delta R.T. 0.02 min

Lab File: BM016031.D

Acq: 23 Jul 2018 18:23

Instrument :

BNA_M

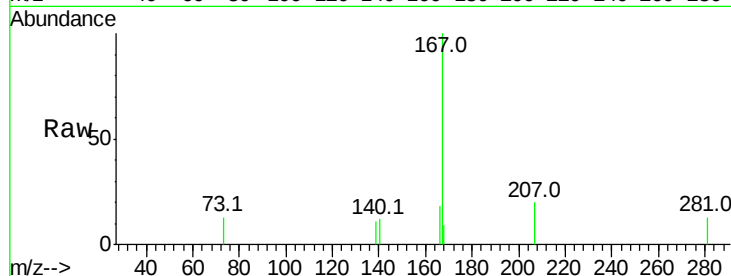
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

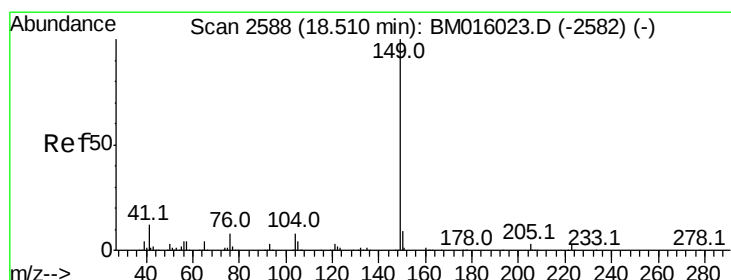
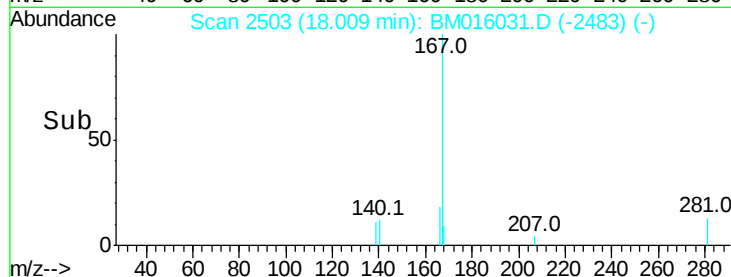
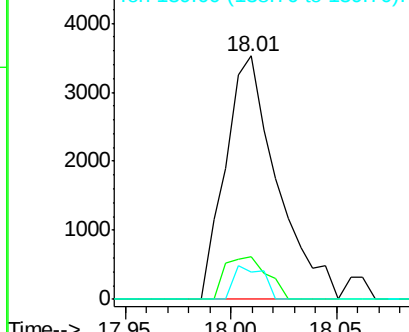
Tot Ion:	167	Resp:	5967
Ion Ratio	Lower	Upper	
167	100		
166	17.7	17.2	25.8
139	11.4	10.8	16.2

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Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E



#73

Di-n-butylphthalate

Concen: 0.640 ng

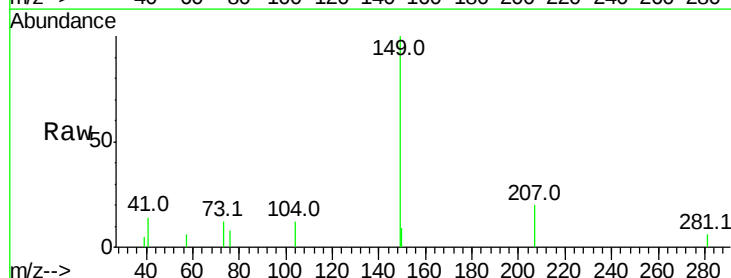
RT: 18.51 min Scan# 2588

Delta R.T. -0.00 min

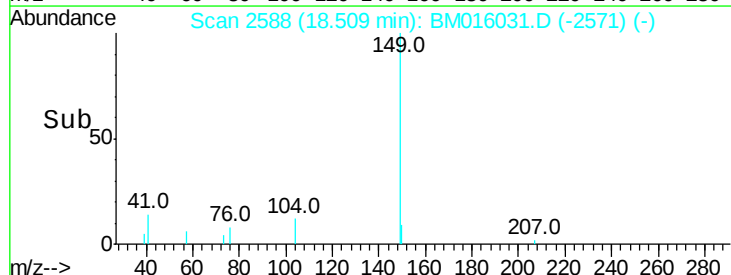
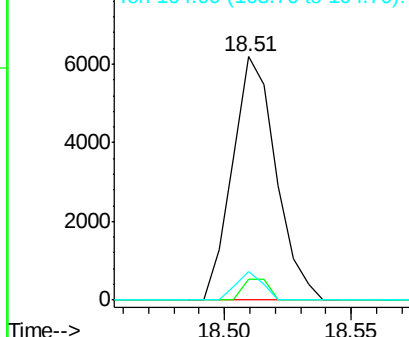
Lab File: BM016031.D

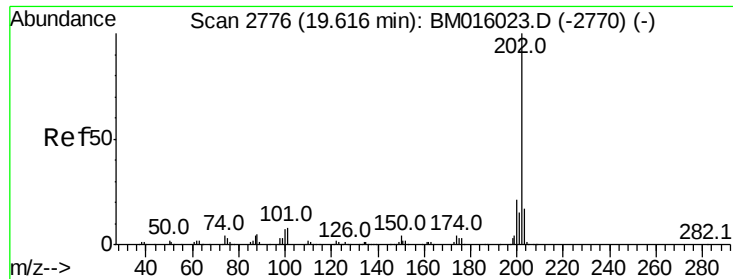
Acq: 23 Jul 2018 18:23

Tgt Ion:	149	Resp:	7388
Ion Ratio	Lower	Upper	
149	100		
150	8.7	7.5	11.3
104	11.7	3.7	5.5#



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 104.00 (103.70 to 104.70): E





#74

Fluoranthene

Concen: 0.828 ng

RT: 19.62 min Scan# 2777

Delta R.T. 0.01 min

Lab File: BM016031.D

Acq: 23 Jul 2018 18:23

Instrument :

BNA_M

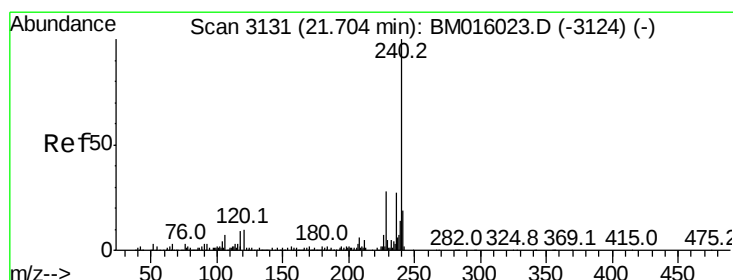
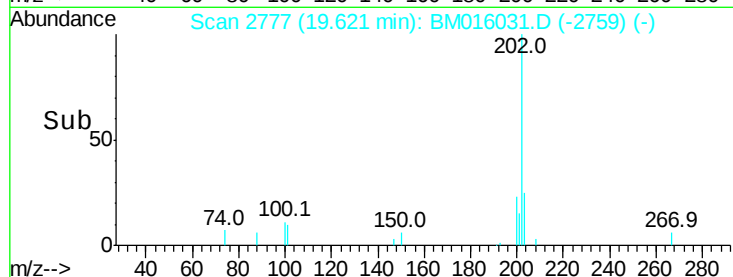
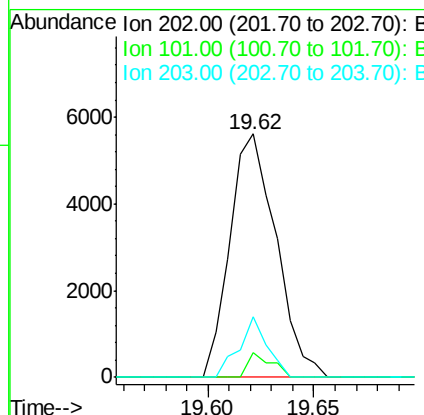
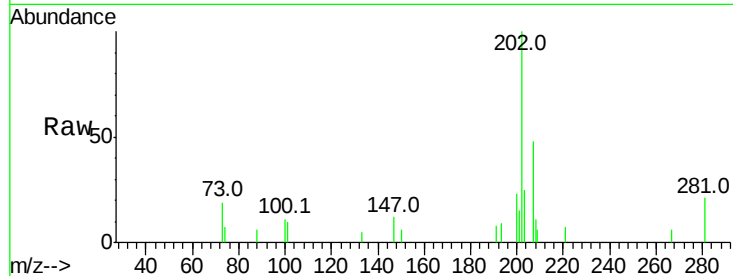
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Resp	Lower	Upper
202	100	8495		
101	10.3	0.0	28.7	
203	25.0	0.0	37.2	

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#75

Chrysene-d12

Concen: 20.000 ng

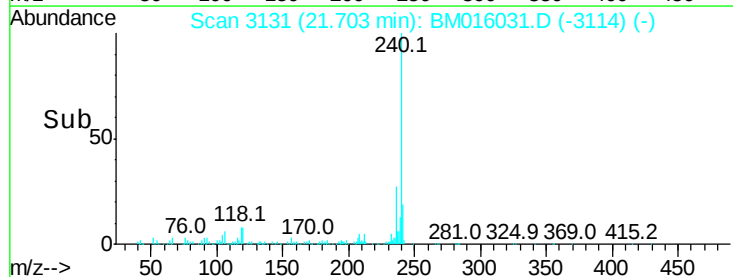
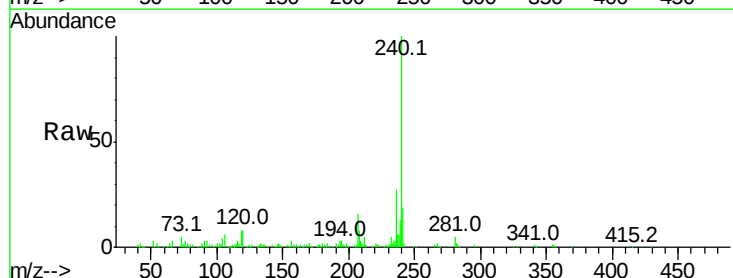
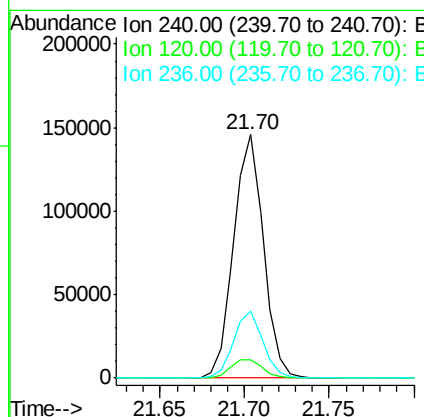
RT: 21.70 min Scan# 3131

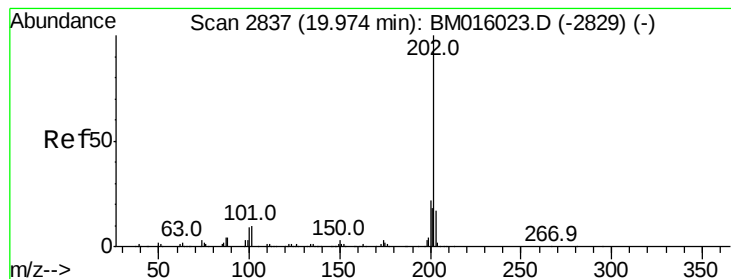
Delta R.T. -0.00 min

Lab File: BM016031.D

Acq: 23 Jul 2018 18:23

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	178978		
120	7.7	8.2	12.2#	
236	27.5	20.0	30.0	





#77

Pvrene

Concen: 0.810 ng

RT: 19.98 min Scan# 2838

Delta R.T. 0.01 min

Lab File: BM016031.D

Acq: 23 Jul 2018 18:23

Instrument :

BNA_M

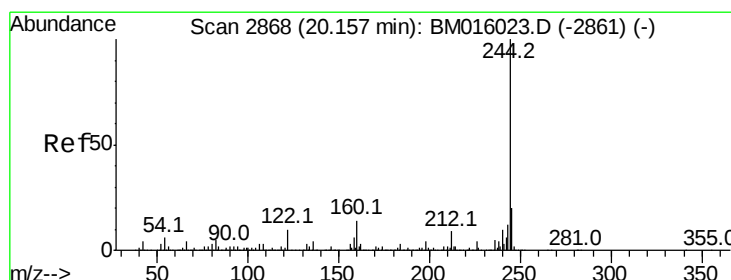
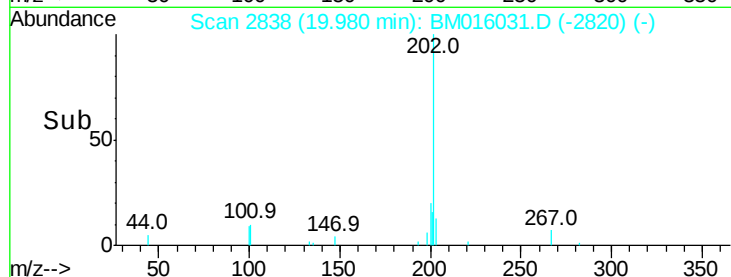
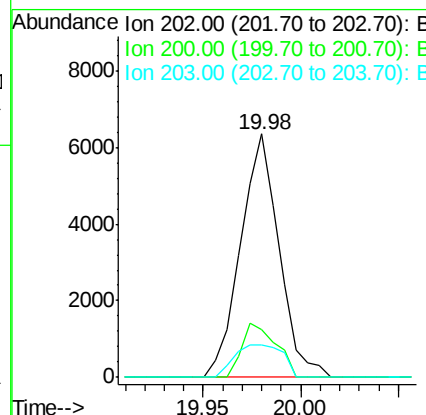
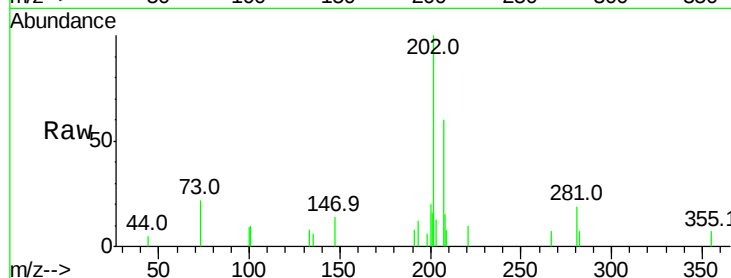
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
202	100		
200	19.6	16.9	25.3
203	13.4	14.1	21.1

Manual Integrations
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#78

Terphenyl-d14

Concen: 0.810 ng

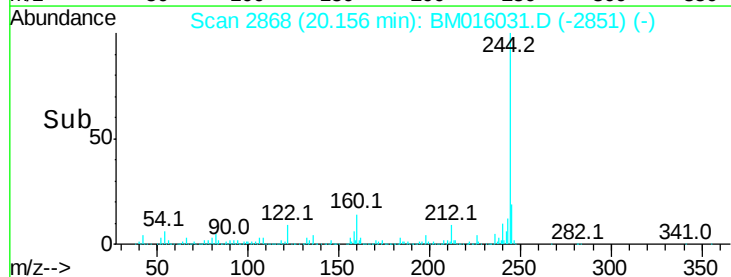
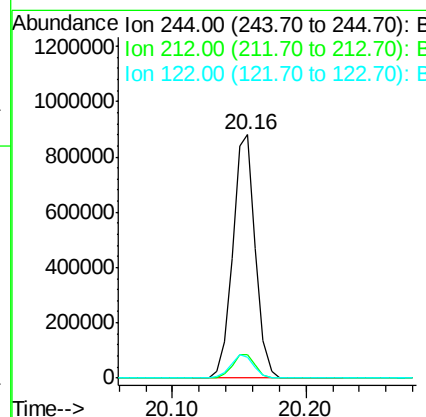
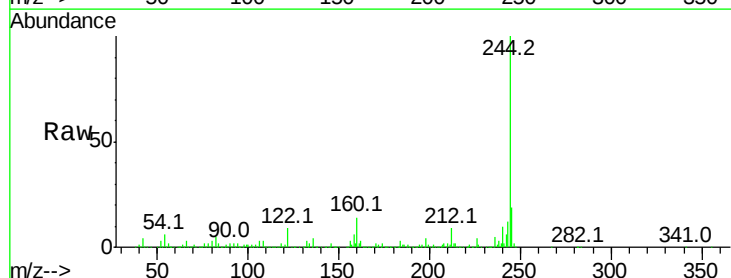
RT: 20.16 min Scan# 2868

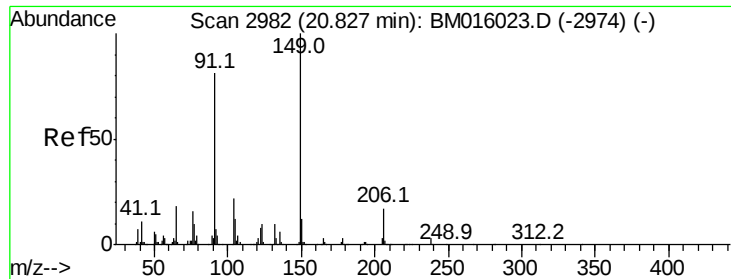
Delta R.T. -0.00 min

Lab File: BM016031.D

Acq: 23 Jul 2018 18:23

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.4	4.9	7.3
122	8.8	6.2	9.4





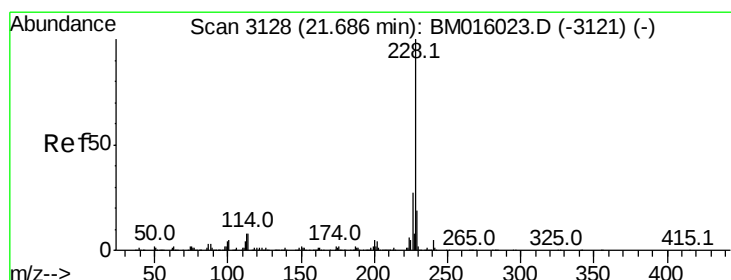
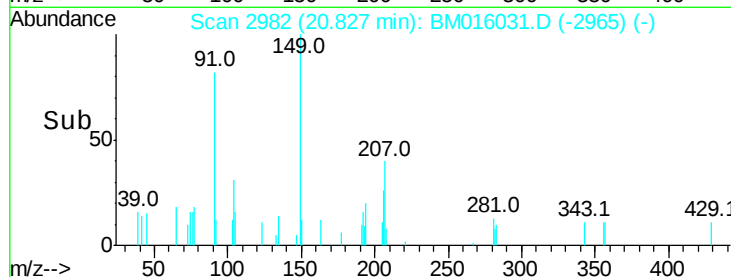
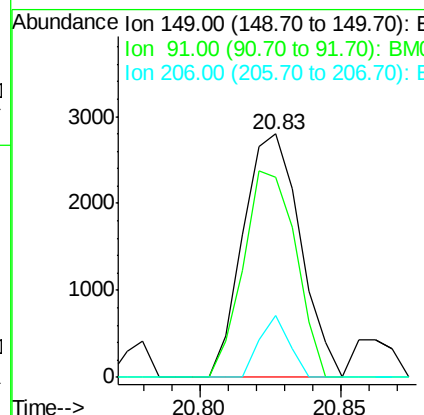
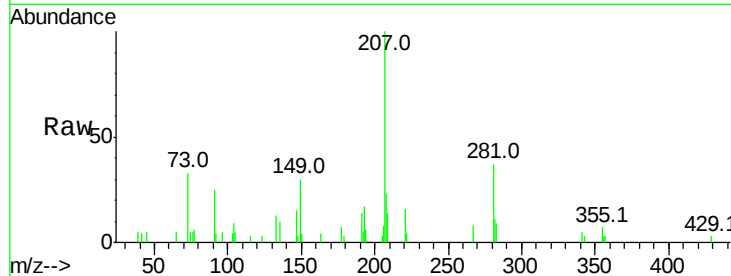
#79
Butylbenzylphthalate
Concen: 0.721 ng
RT: 20.83 min Scan# 2982
Delta R.T. -0.00 min
Lab File: BM016031.D
Acq: 23 Jul 2018 18:23

Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
149	100		
91	82.2	50.1	75.1#
206	25.6	16.2	24.2#

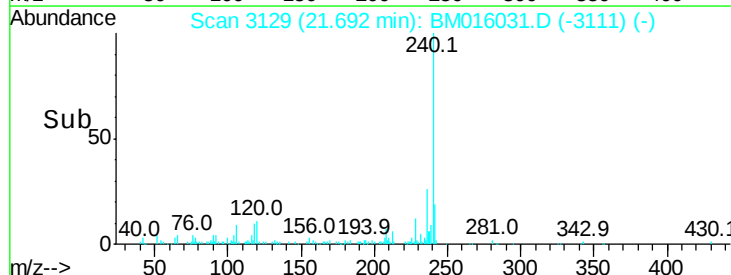
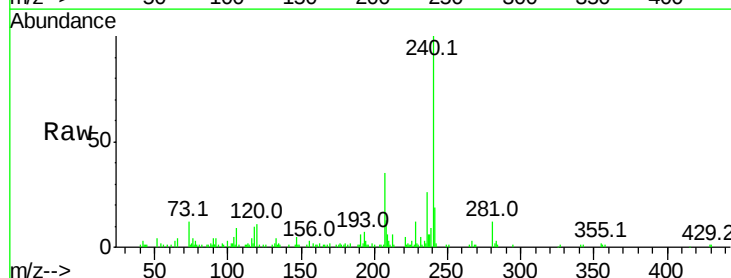
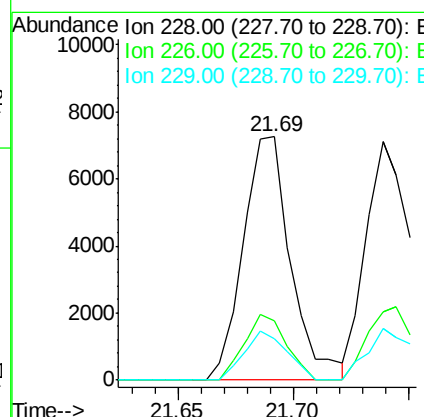
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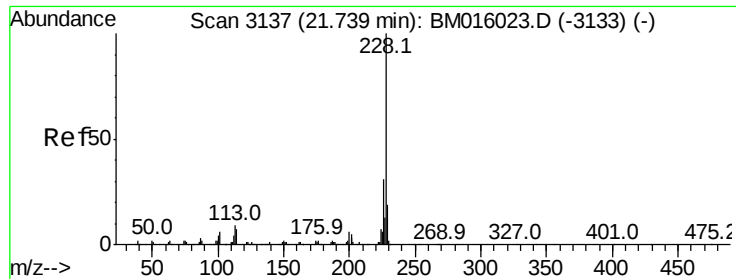
Sohil
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#80
Benzo(a)anthracene
Concen: 0.948 ng
RT: 21.69 min Scan# 3129
Delta R.T. 0.01 min
Lab File: BM016031.D
Acq: 23 Jul 2018 18:23

Tgt Ion	Ratio	Lower	Upper
228	100		
226	24.5	21.7	32.5
229	17.0	16.0	24.0





#82

Chrysene

Concen: 0.903 ng

RT: 21.74 min Scan# 3137

Delta R.T. -0.00 min

Lab File: BM016031.D

Acq: 23 Jul 2018 18:23

Instrument :

BNA_M

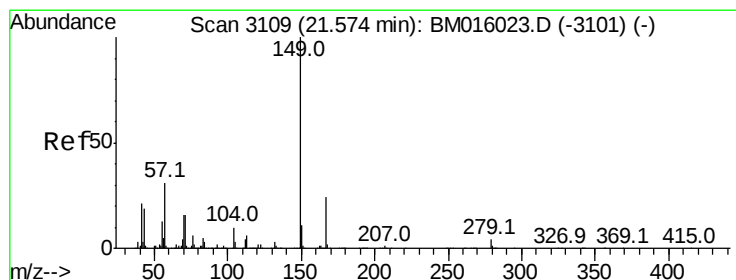
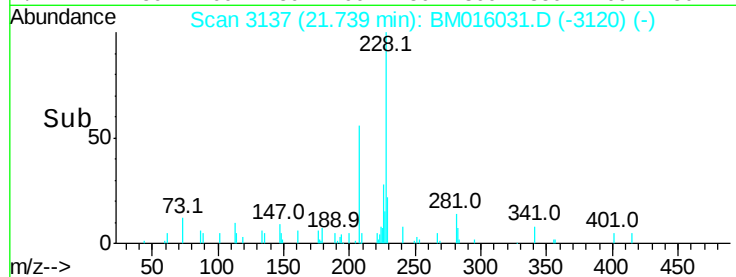
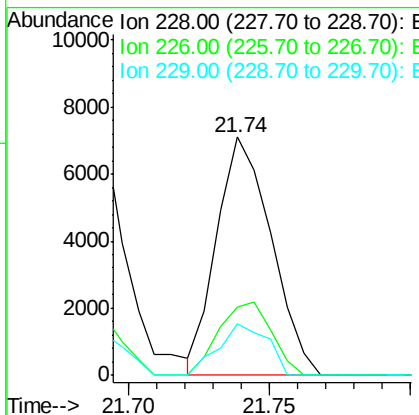
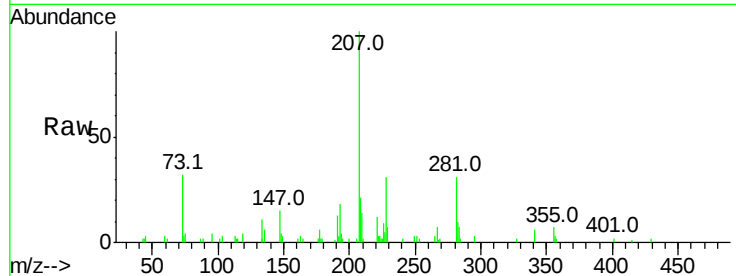
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion:	228	Resp:	9547
Ion Ratio	Lower	Upper	
228	100		
226	28.4	24.1	36.1
229	21.8	15.5	23.3

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#83

Bis(2-ethylhexyl)phthalate

Concen: 0.692 ng

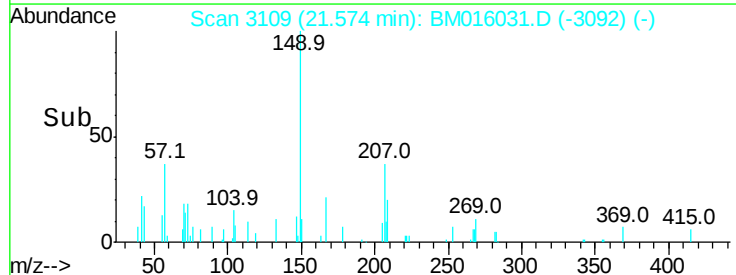
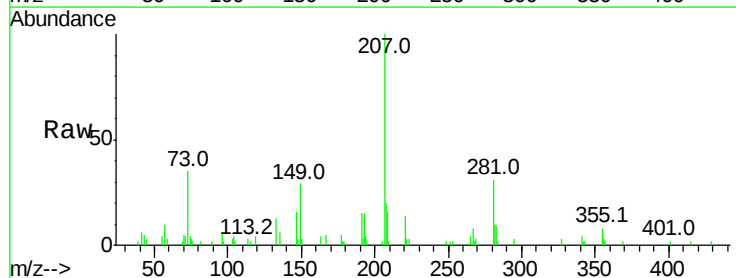
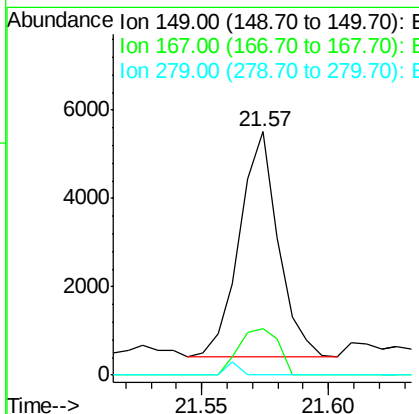
RT: 21.57 min Scan# 3109

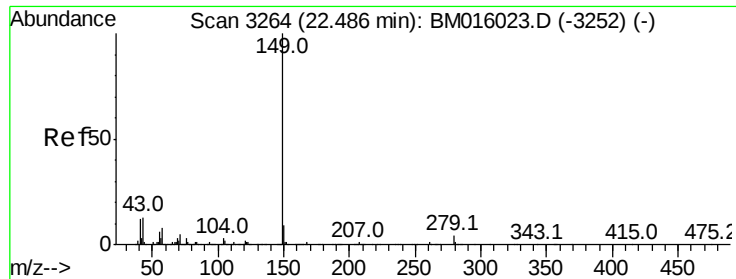
Delta R.T. -0.00 min

Lab File: BM016031.D

Acq: 23 Jul 2018 18:23

Tgt Ion:	149	Resp:	5466
Ion Ratio	Lower	Upper	
149	100		
167	19.2	22.4	33.6#
279	0.0	3.4	5.0#





#84

Di-n-octyl phthalate

Concen: 0.784 ng

RT: 22.48 min Scan# 3263

Delta R.T. -0.01 min

Lab File: BM016031.D

Acq: 23 Jul 2018 18:23

Instrument :

BNA_M

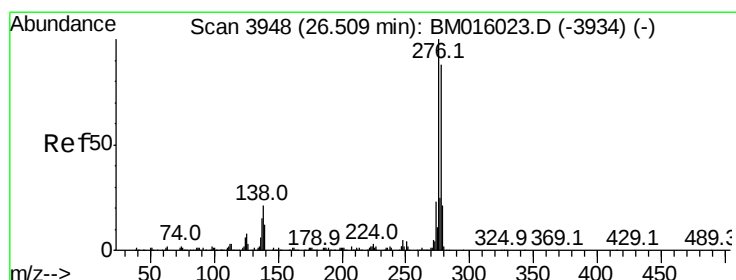
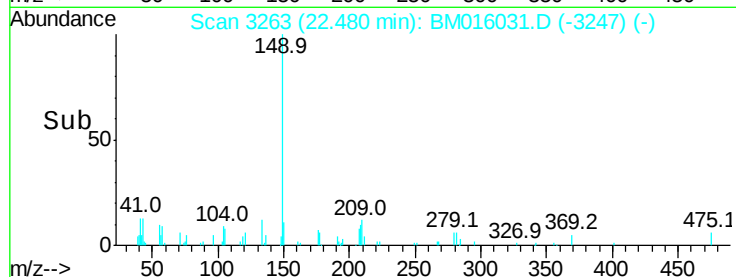
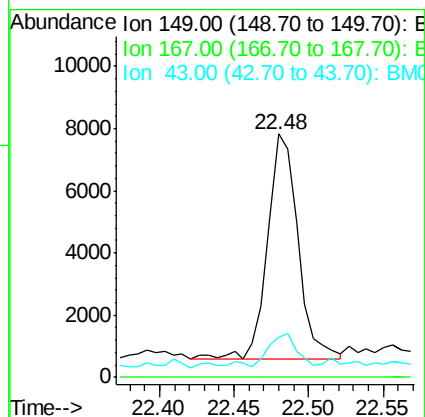
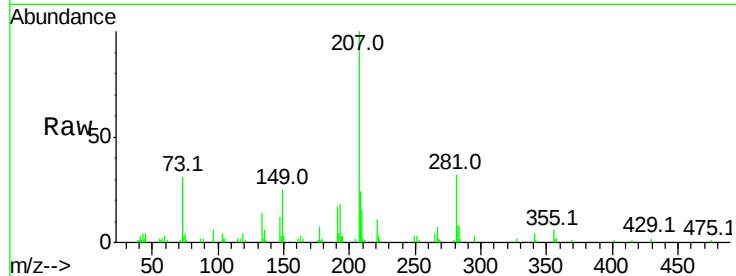
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion:	149	Resp:	10402
Ion Ratio	Lower	Upper	
149	100		
167	0.0	1.2	1.8#
43	13.7	7.3	10.9#

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 0.923 ng

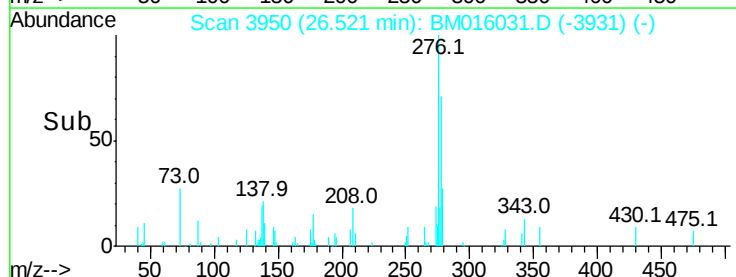
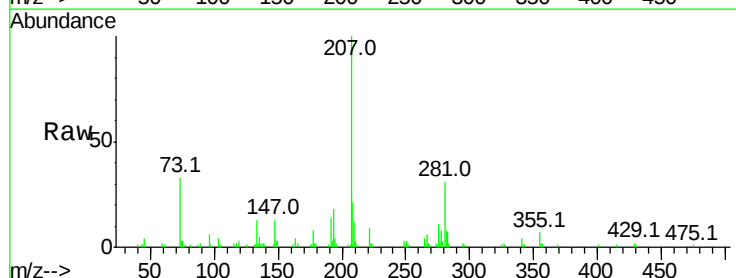
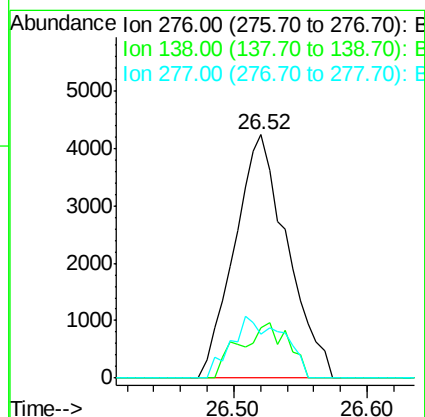
RT: 26.52 min Scan# 3950

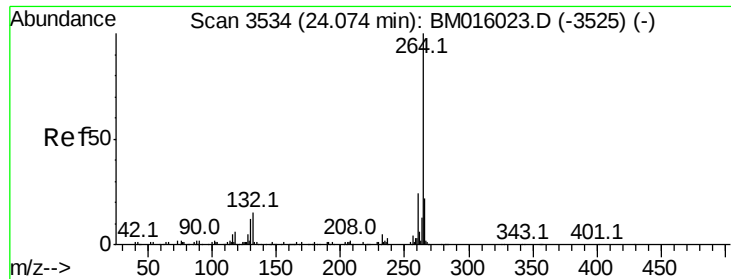
Delta R.T. 0.01 min

Lab File: BM016031.D

Acq: 23 Jul 2018 18:23

Tgt Ion:	276	Resp:	11578
Ion Ratio	Lower	Upper	
276	100		
138	20.8	12.0	18.0#
277	25.0	20.0	30.0





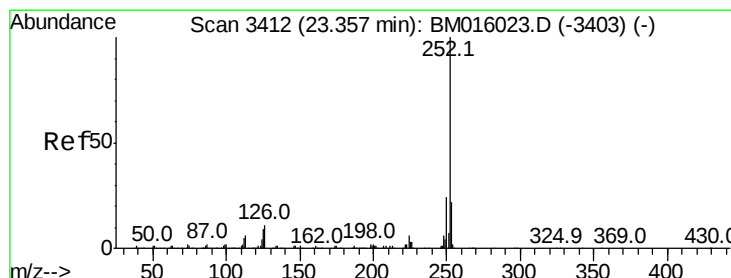
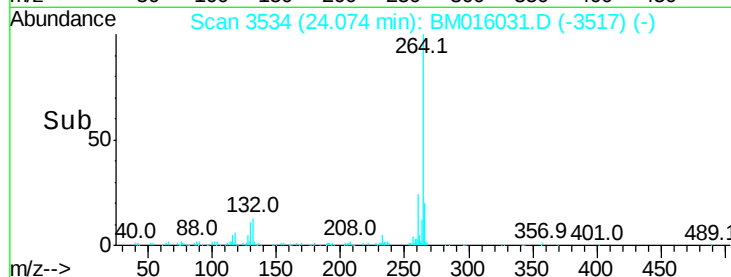
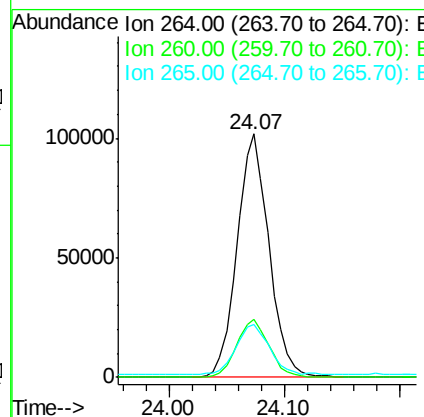
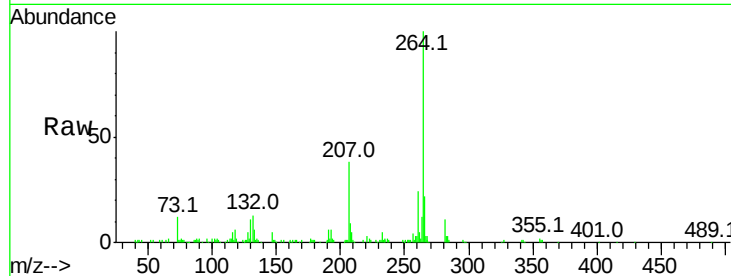
#86
Pervlene-d12
Concen: 20.000 ng
RT: 24.07 min Scan# 3534
Delta R.T. -0.00 min
Lab File: BM016031.D
Acq: 23 Jul 2018 18:23

Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.6	27.8
265	21.5	17.3	25.9

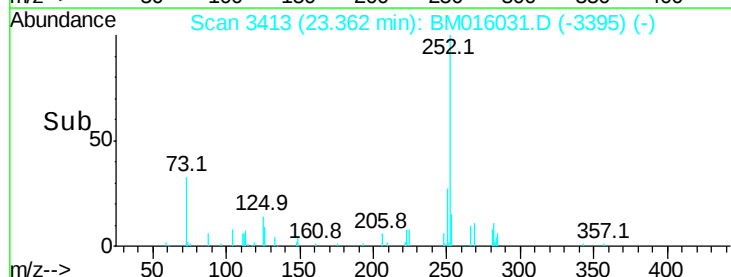
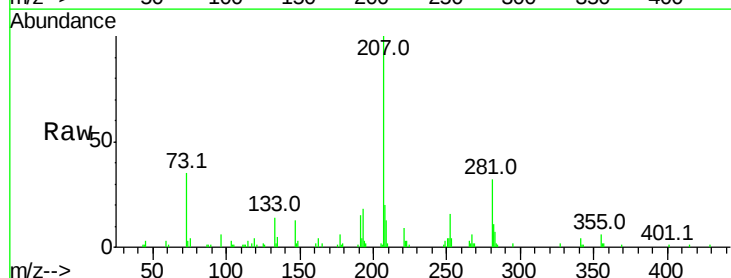
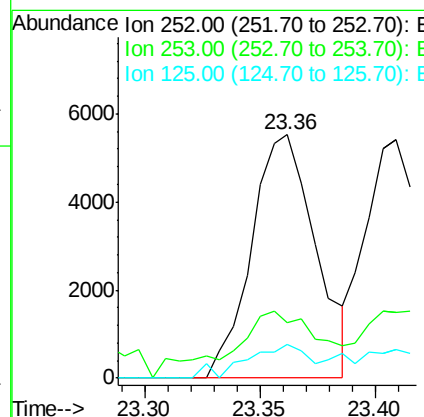
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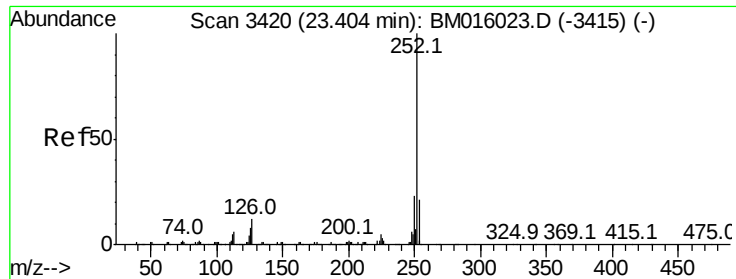
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#87
Benzo(b)fluoranthene
Concen: 0.933 ng
RT: 23.36 min Scan# 3413
Delta R.T. 0.01 min
Lab File: BM016031.D
Acq: 23 Jul 2018 18:23

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.0	27.0
125	13.8	9.9	14.9





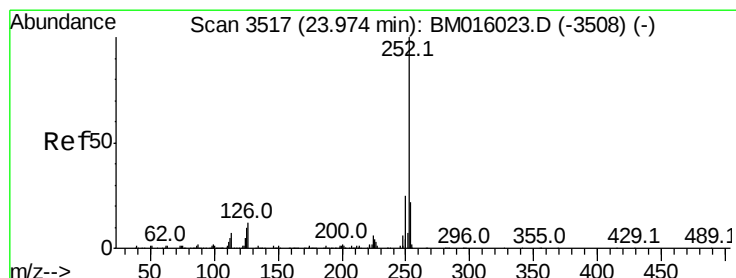
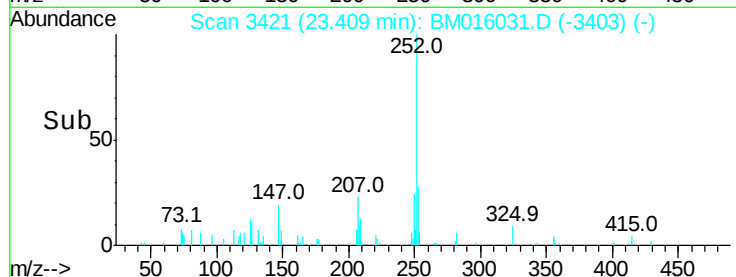
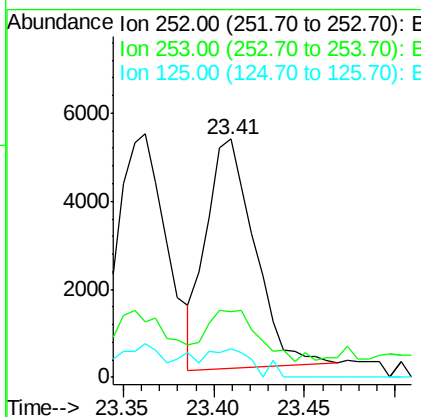
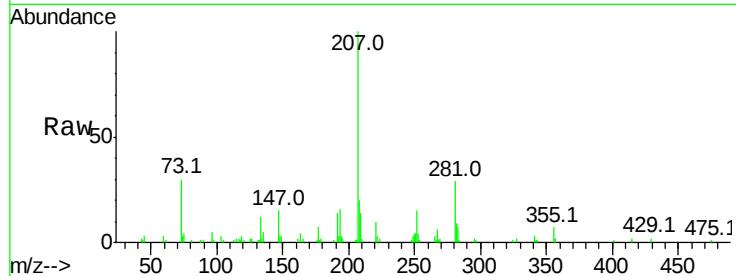
#88
Benzo(k)fluoranthene
Concen: 0.832 ng
RT: 23.41 min Scan# 3421
Delta R.T. 0.01 min
Lab File: BM016031.D
Acq: 23 Jul 2018 18:23

Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
252	100		
253	27.7	17.2	25.8#
125	12.0	8.1	12.1

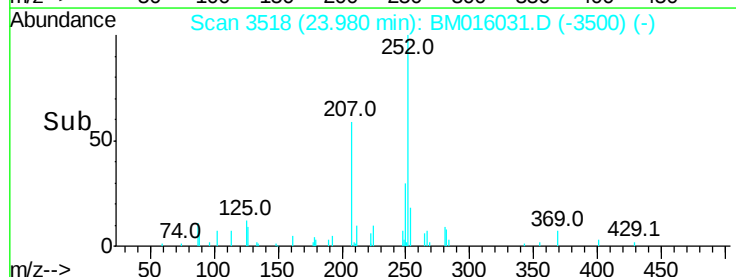
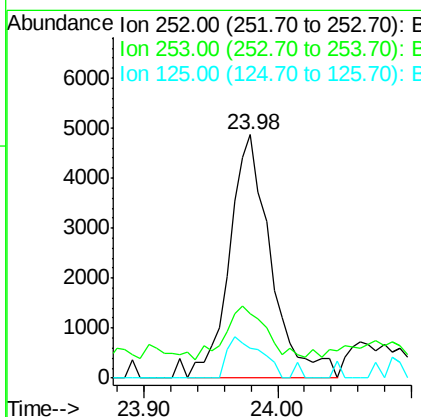
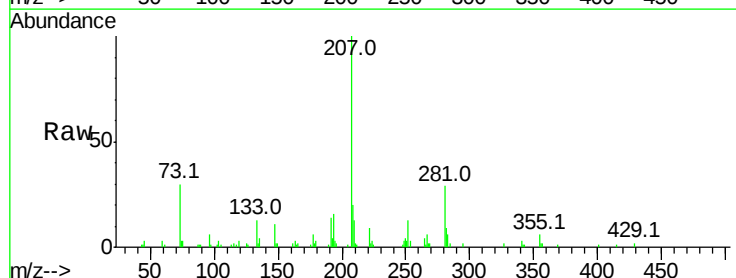
Manual Integrations
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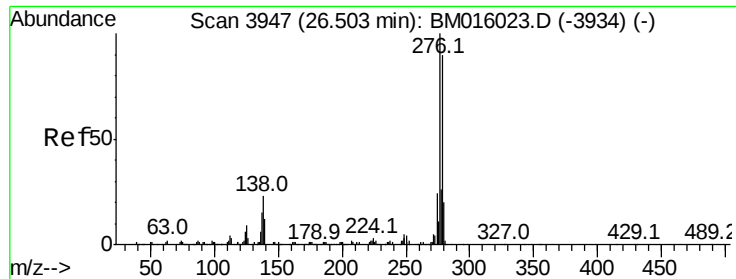
Sohil
7/24/2018 5:28:50 PM



#89
Benzo(a)pyrene
Concen: 0.945 ng
RT: 23.98 min Scan# 3518
Delta R.T. 0.01 min
Lab File: BM016031.D
Acq: 23 Jul 2018 18:23

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.5	17.6	26.4#
125	12.4	7.4	11.2#





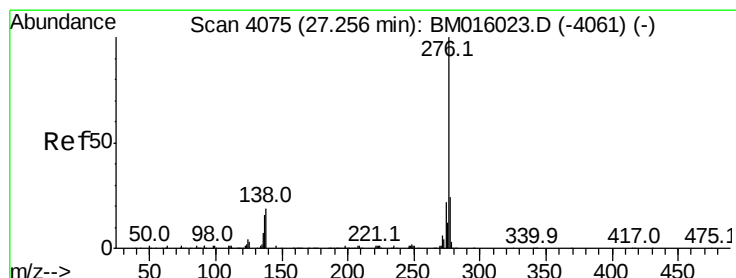
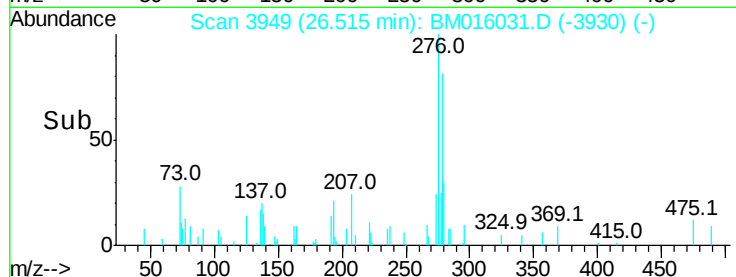
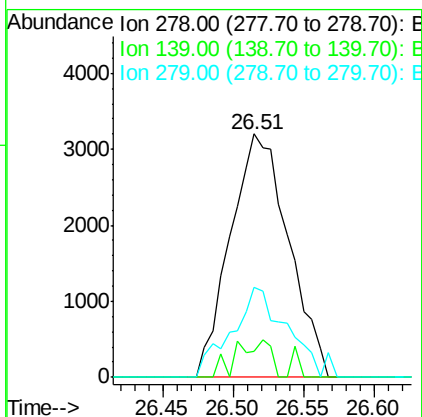
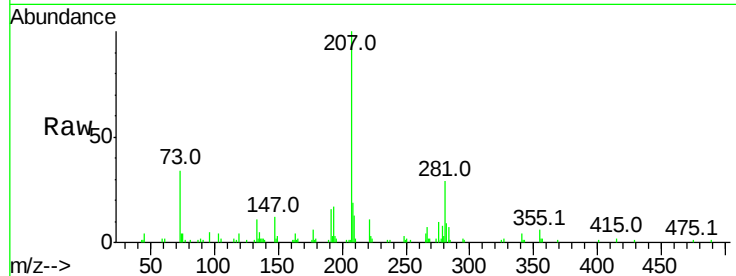
#90
Dibenzo(a,h)anthracene
Concen: 0.807 ng
RT: 26.51 min Scan# 3949
Delta R.T. 0.01 min
Lab File: BM016031.D
Acq: 23 Jul 2018 18:23

Instrument :
BNA_M
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
278	100		
139	10.5	13.4	20.0#
279	37.1	19.0	28.4#

Manual Integrations
APPROVED

Sohil
7/24/2018 5:28:50 PM



#91
Benzo(g,h,i)perylene
Concen: 0.901 ng
RT: 27.26 min Scan# 4076
Delta R.T. 0.01 min
Lab File: BM016031.D
Acq: 23 Jul 2018 18:23

Tgt Ion	Ratio	Lower	Upper
276	100		
277	12.3	18.5	27.7#
138	16.2	19.0	28.6#

