

Data Path : Z:\HPCHEM1\BNA M\DATA\BM032217\
 Data File : BM009326.D
 Acq On : 22 Mar 2017 19:59
 Operator : SJ/MA
 Sample : I2296-01
 Misc : LOD 2 PPB
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 LOD-SOIL-01-QT2-2017

Quant Time: Mar 23 15:09:51 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-BM032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 22 16:43:02 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.86	152	168358	20.00	ng	0.00
21) Naphthalene-d8	10.66	136	610151	20.00	ng	0.00
38) Acenaphthene-d10	14.50	164	339233	20.00	ng	0.00
63) Phenanthrene-d10	17.25	188	764873	20.00	ng	0.00
75) Chrysene-d12	21.43	240	947434	20.00	ng	0.00
86) Perylene-d12	23.75	264	903074	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	1466150	145.16	ng	0.00
7) Phenol-d6	7.02	99	1985551	144.16	ng	0.00
23) Nitrobenzene-d5	9.03	82	1487180	91.39	ng	0.00
41) 2,4,6-Tribromophenol	15.99	330	616163	146.21	ng	0.00
44) 2-Fluorobiphenyl	13.12	172	2624837	93.23	ng	0.00
78) Terphenyl-d14	19.87	244	3780265	83.38	ng	0.00

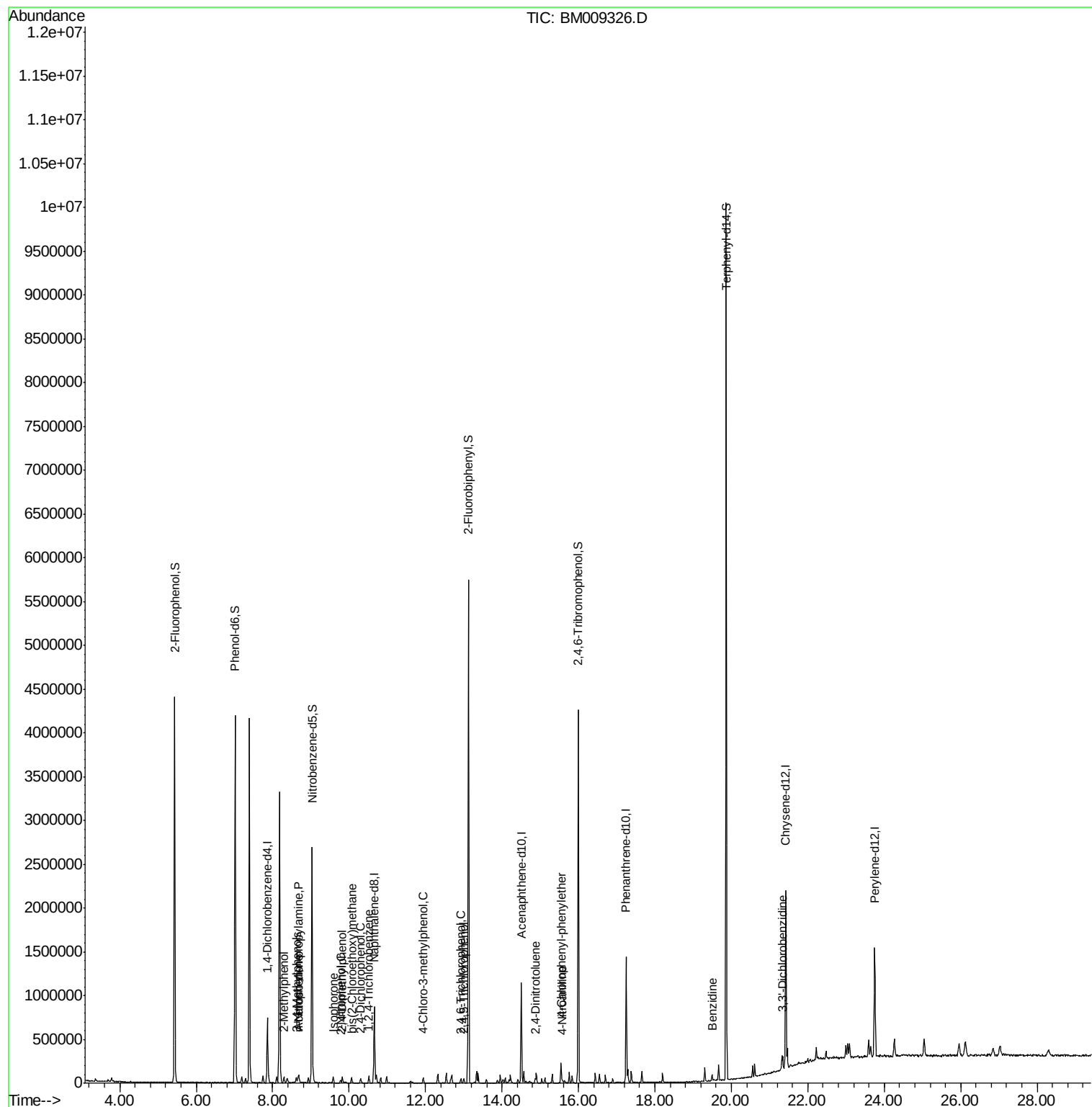
Target Compounds						Qvalue
17) 2-Methylphenol	8.29	107	17219	1.76	ng	# 82
19) n-Nitroso-di-n-propylamine	8.66	70	20129	1.81	ng	# 96
20) 3+4-Methylphenols	8.62	107	23200	1.75	ng	90
22) Acetophenone	8.69	105	34516	2.01	ng	# 86
25) Isophorone	9.59	82	45172	1.82	ng	# 86
26) 2-Nitrophenol	9.78	139	7819	1.63	ng	# 59
27) 2,4-Dimethylphenol	9.82	122	14769	1.68	ng	# 80
28) bis(2-Chloroethoxy)methane	10.06	93	28781	1.87	ng	97
29) 2,4-Dichlorophenol	10.30	162	15553	1.69	ng	79
30) 1,2,4-Trichlorobenzene	10.52	180	23524	2.06	ng	98
36) 4-Chloro-3-methylphenol	11.93	107	17740	1.71	ng	# 83
42) 2,4,6-Trichlorophenol	12.93	196	10833	1.48	ng	# 96
43) 2,4,5-Trichlorophenol	13.00	196	12610	1.54	ng	# 72
56) 2,4-Dinitrotoluene	14.87	165	10186	1.34	ng	# 90
60) 4-Chlorophenyl-phenylether	15.54	204	26772	1.79	ng	91
61) 4-Nitroaniline	15.58	138	7094	1.18	ng	# 1
76) Benzidine	19.50	184	35258	1.25	ng	94
81) 3,3'-Dichlorobenzidine	21.34	252	36094	1.74	ng	90

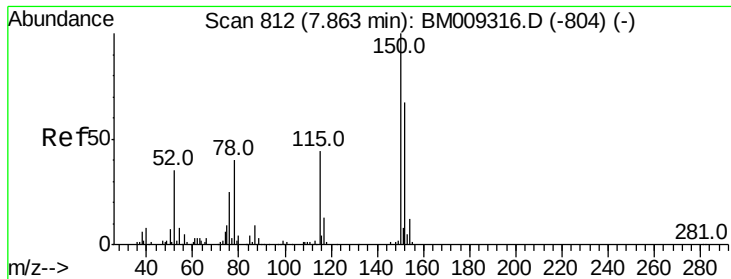
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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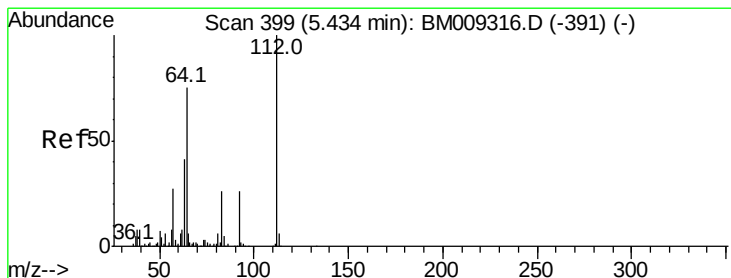
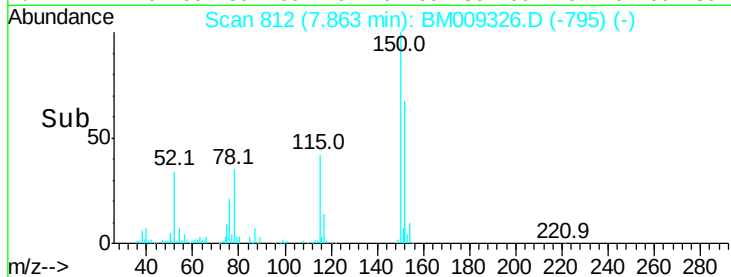
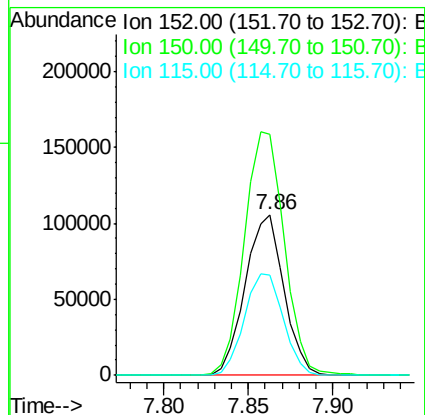
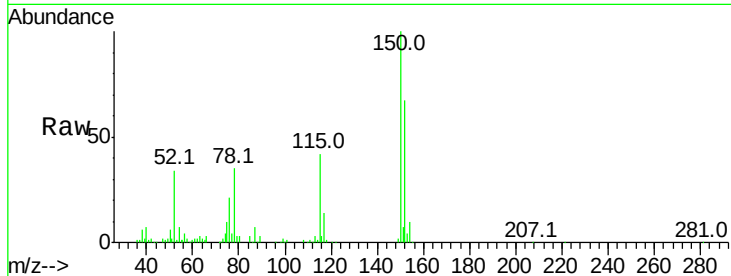


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.86 min Scan# 812
Delta R.T. 0.00 min
Lab File: BM009326.D
Acq: 22 Mar 2017 19:59

Instrument :
BNA_M
ClientSampleId :
LOD-SOIL-01-QT2-2017

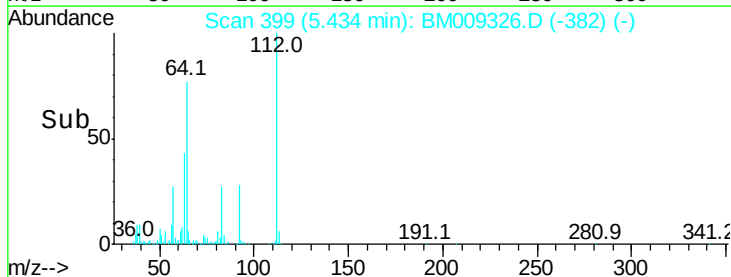
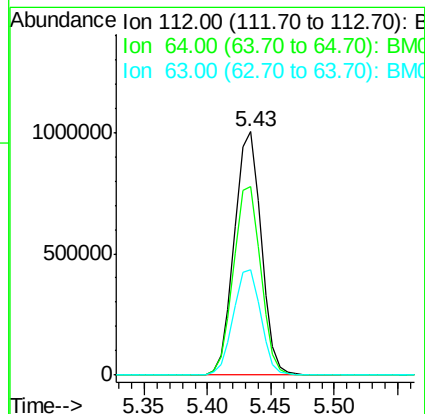
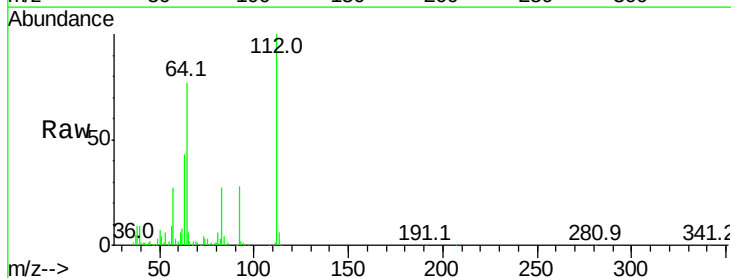
Tot Ion:152 Resp: 168358
Ion Ratio Lower Upper
152 100
150 149.8 119.5 179.3
115 62.3 43.0 64.4

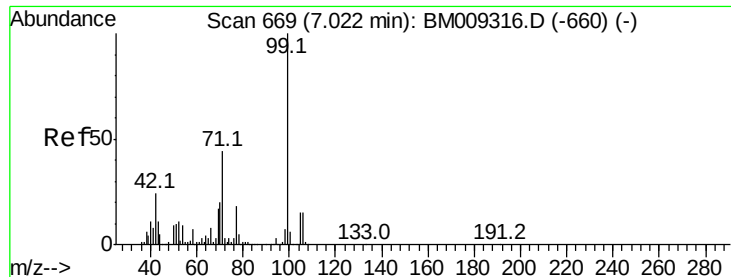


#5

2-Fluorophenol
Concen: 145.16 ng
RT: 5.43 min Scan# 399
Delta R.T. 0.00 min
Lab File: BM009326.D
Acq: 22 Mar 2017 19:59

Tgt Ion:112 Resp: 1466150
Ion Ratio Lower Upper
112 100
64 77.2 38.6 57.8#
63 43.1 19.3 28.9#





#7

Phenol-d6

Concen: 144.16 ng

RT: 7.02 min Scan# 669

Delta R.T. 0.00 min

Lab File: BM009326.D

Acq: 22 Mar 2017 19:59

Instrument :

BNA_M

ClientSampleId :

LOD-SOIL-01-QT2-2017

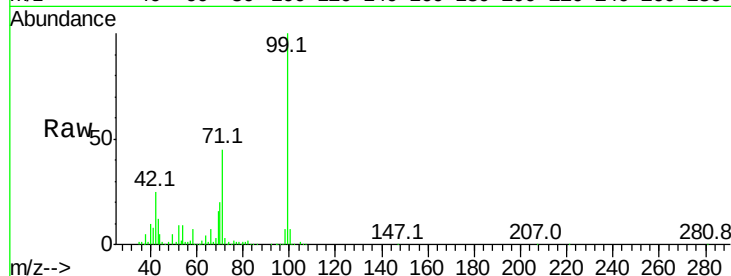
Tot Ion: 99 Resp: 1985551

Ion Ratio Lower Upper

99 100

42 24.7 11.0 16.4#

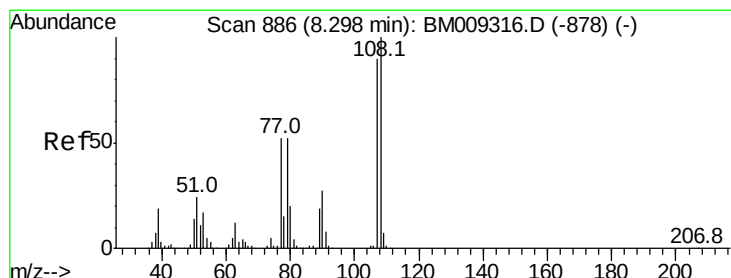
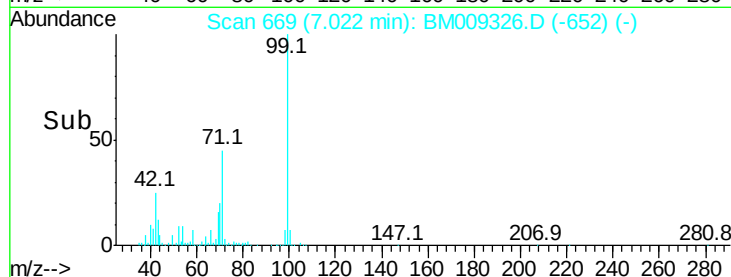
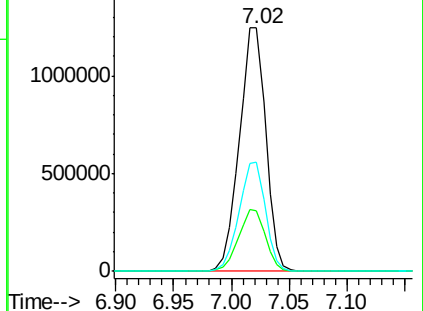
71 45.0 23.4 35.2#



Abundance Ion 99.00 (98.70 to 99.70): BM009326.D (-660) (-)

Ion 42.00 (41.70 to 42.70): BM009326.D (-660) (-)

Ion 71.00 (70.70 to 71.70): BM009326.D (-660) (-)



#17

2-Methylphenol

Concen: 1.76 ng

RT: 8.29 min Scan# 885

Delta R.T. -0.01 min

Lab File: BM009326.D

Acq: 22 Mar 2017 19:59

Tgt Ion: 107 Resp: 17219

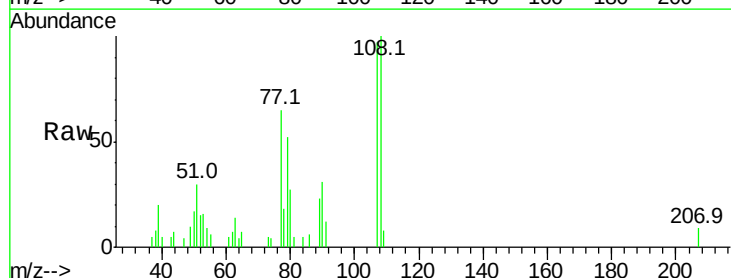
Ion Ratio Lower Upper

107 100

108 102.6 89.8 134.8

77 66.8 32.6 48.8#

79 53.7 32.8 49.2#

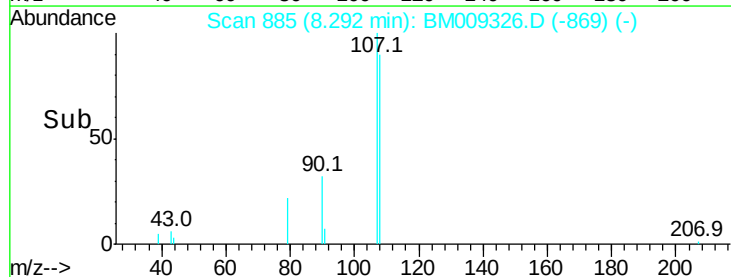
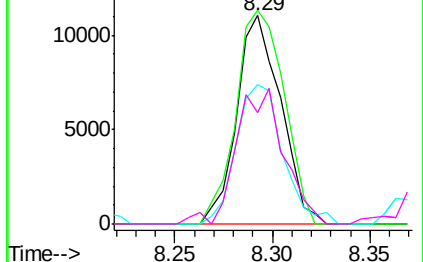


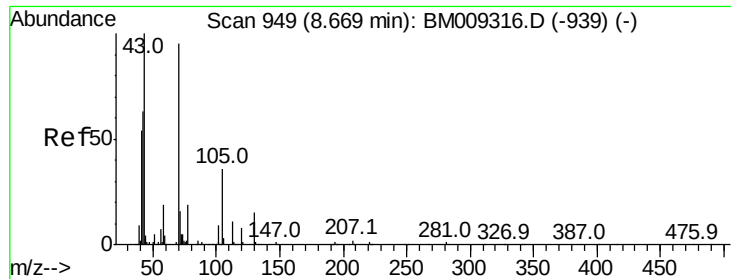
Abundance Ion 107.00 (106.70 to 107.70): BM009326.D (-869) (-)

Ion 108.00 (107.70 to 108.70): BM009326.D (-869) (-)

Ion 77.00 (76.70 to 77.70): BM009326.D (-869) (-)

Ion 79.00 (78.70 to 79.70): BM009326.D (-869) (-)





#19

n-Nitroso-di-n-propylamine

Concen: 1.81 ng

RT: 8.66 min Scan# 948

Delta R.T. -0.01 min

Lab File: BM009326.D

Acq: 22 Mar 2017 19:59

Instrument :

BNA_M

ClientSampleId :

LOD-SOIL-01-QT2-2017

Tot Ion: 70 Resp: 20129

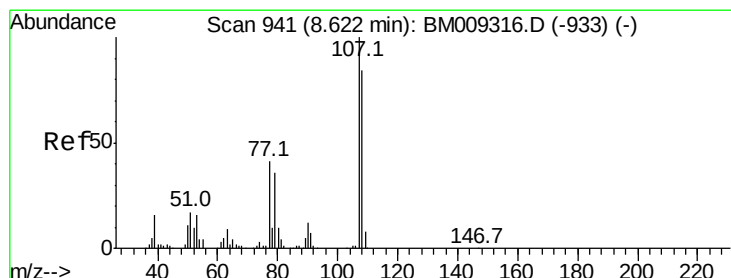
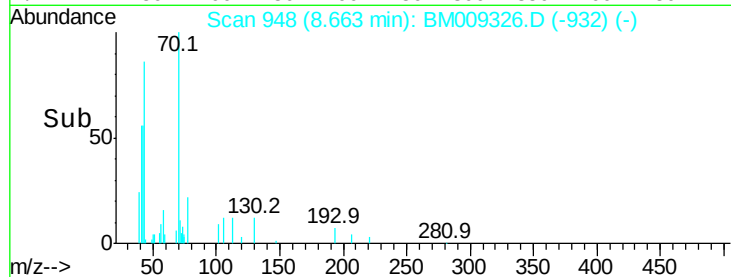
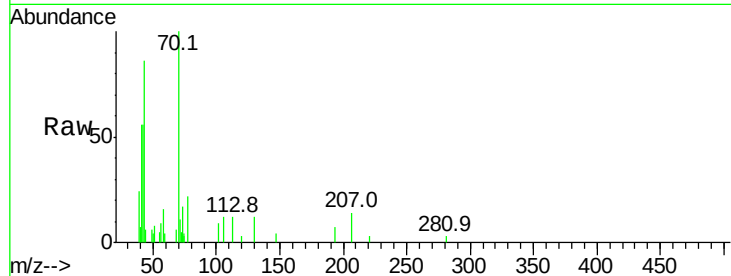
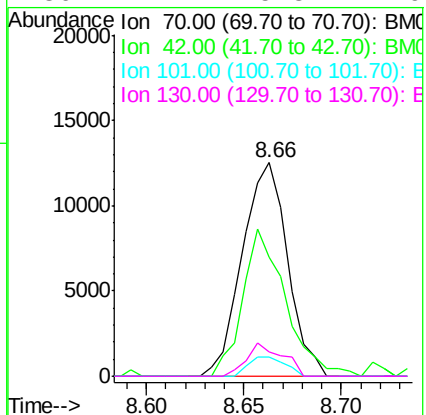
Ion	Ratio	Lower	Upper
70	100		
42	55.7	44.5	66.7
101	9.2	7.4	11.2
130	11.7	15.3	22.9

70 100

42 55.7 44.5 66.7

101 9.2 7.4 11.2

130 11.7 15.3 22.9



#20

3+4-Methylphenols

Concen: 1.75 ng

RT: 8.62 min Scan# 941

Delta R.T. 0.00 min

Lab File: BM009326.D

Acq: 22 Mar 2017 19:59

Tgt Ion: 107 Resp: 23200

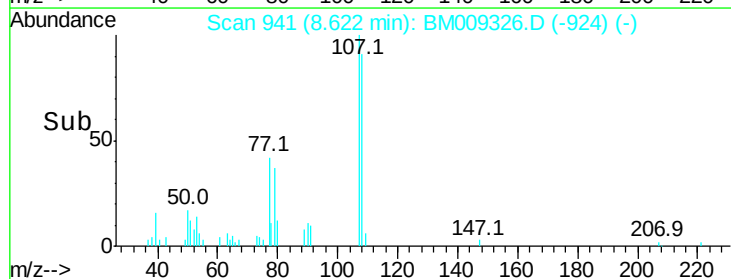
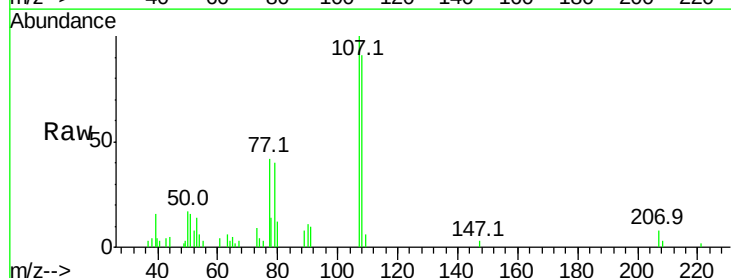
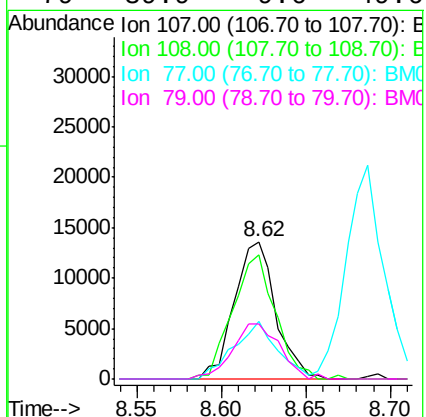
Ion	Ratio	Lower	Upper
107	100		
108	90.7	73.2	113.2
77	42.2	10.7	50.7
79	39.9	9.6	49.6

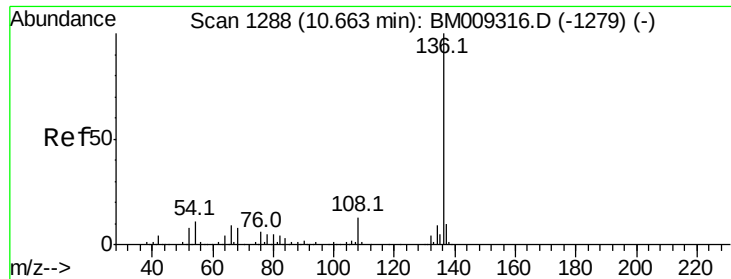
107 100

108 90.7 73.2 113.2

77 42.2 10.7 50.7

79 39.9 9.6 49.6

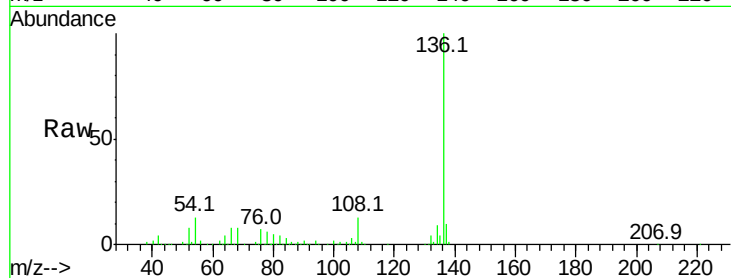




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 10.66 min Scan# 1287
Delta R.T. -0.01 min
Lab File: BM009326.D
Acq: 22 Mar 2017 19:59

Instrument :
BNA_M
ClientSampleId :
LOD-SOIL-01-QT2-2017

Tot Ion:	136	Resp:	610151
Ion	Ratio	Lower	Upper
136	100		
137	10.2	8.7	13.1
54	12.8	4.6	6.8#
68	8.3	3.7	5.5#



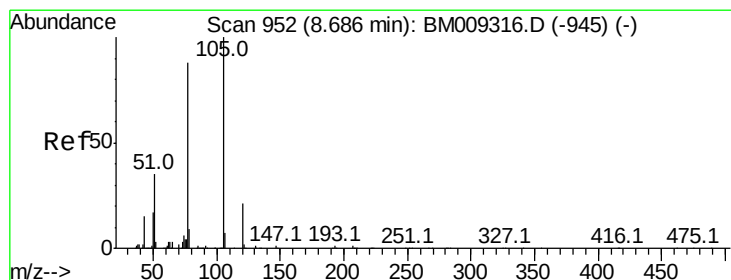
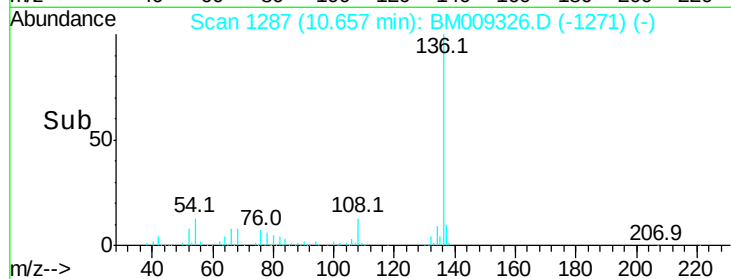
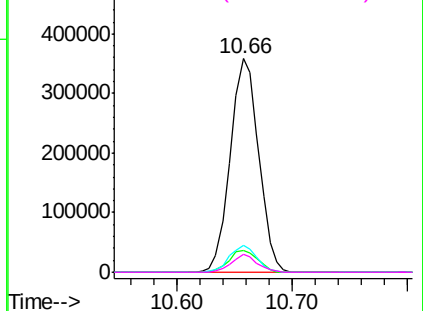
Abundance

Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

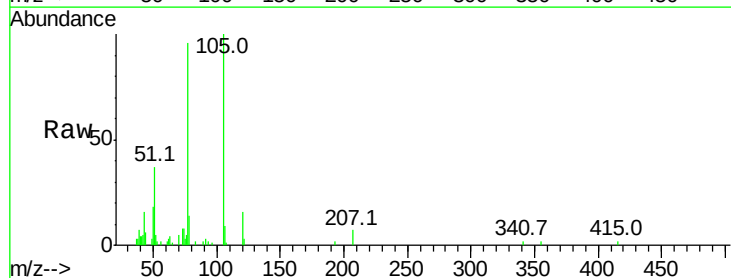
Ion 54.00 (53.70 to 54.70): BM

Ion 68.00 (67.70 to 68.70): BM



#22
Acetophenone
Concen: 2.01 ng
RT: 8.69 min Scan# 952
Delta R.T. 0.00 min
Lab File: BM009326.D
Acq: 22 Mar 2017 19:59

Tgt Ion:	105	Resp:	34516
Ion	Ratio	Lower	Upper
105	100		
71	0.0	0.6	1.0#
51	36.5	21.6	32.4#
120	16.3	16.1	24.1



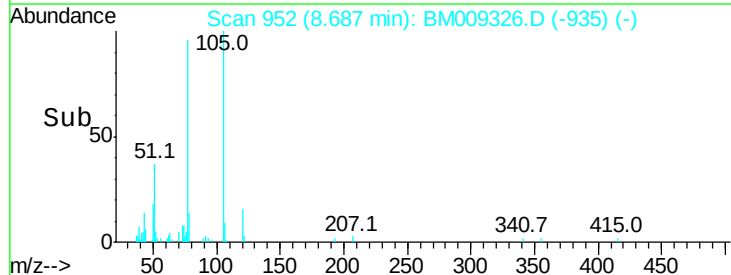
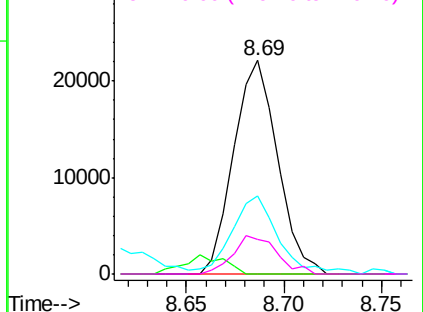
Abundance

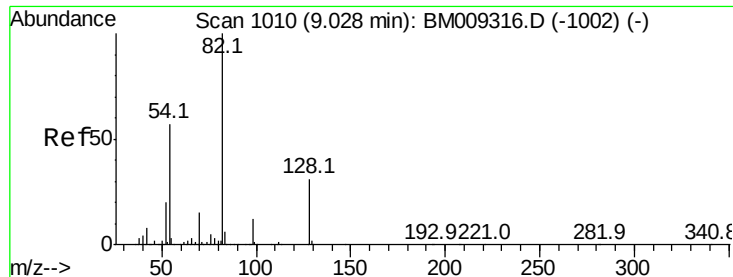
Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BM

Ion 51.00 (50.70 to 51.70): BM

Ion 120.00 (119.70 to 120.70): E

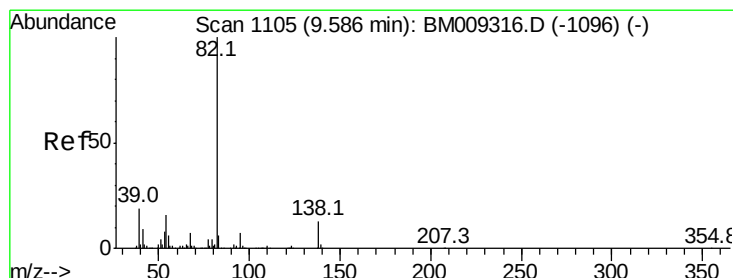
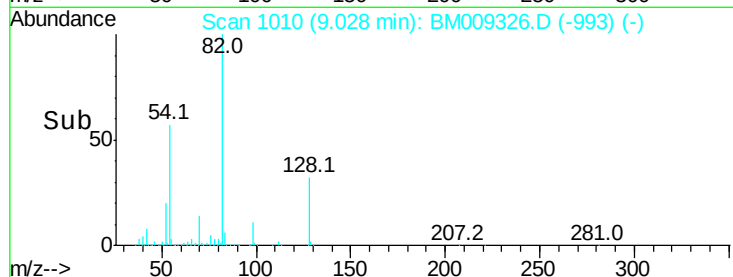
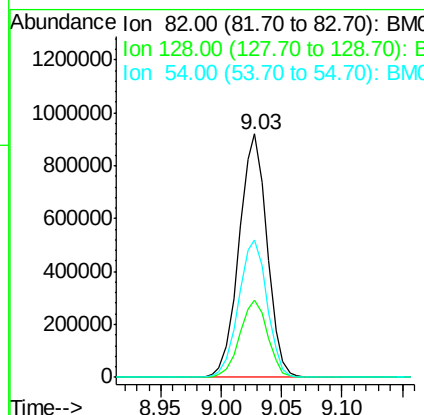
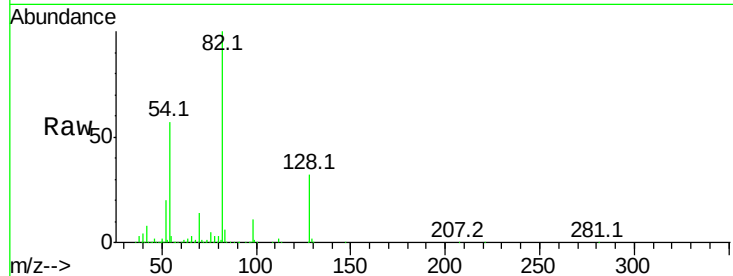




#23
 Nitrobenzene-d5
 Concen: 91.39 ng
 RT: 9.03 min Scan# 1010
 Delta R.T. 0.00 min
 Lab File: BM009326.D
 Acq: 22 Mar 2017 19:59

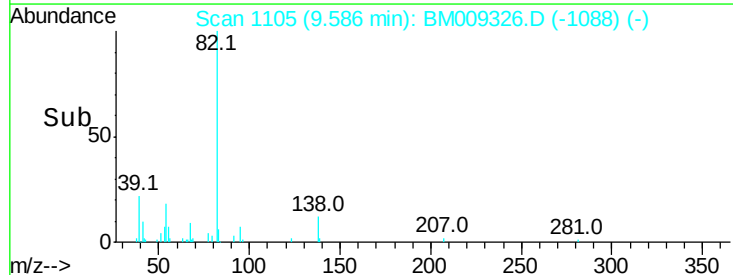
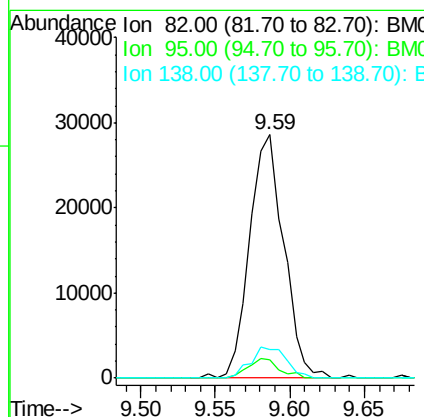
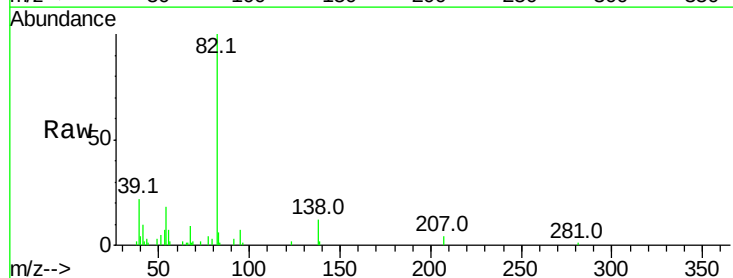
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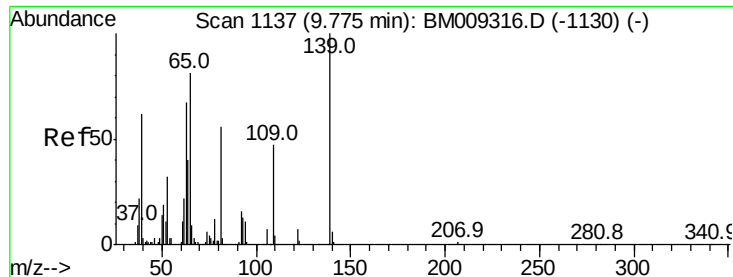
Tot Ion: 82 Resp: 1487180
 Ion Ratio Lower Upper
 82 100
 128 31.7 32.8 49.2#
 54 56.6 40.6 60.8



#25
 Isophorone
 Concen: 1.82 ng
 RT: 9.59 min Scan# 1105
 Delta R.T. 0.00 min
 Lab File: BM009326.D
 Acq: 22 Mar 2017 19:59

Tgt Ion: 82 Resp: 45172
 Ion Ratio Lower Upper
 82 100
 95 7.5 5.8 8.6
 138 12.0 16.3 24.5#

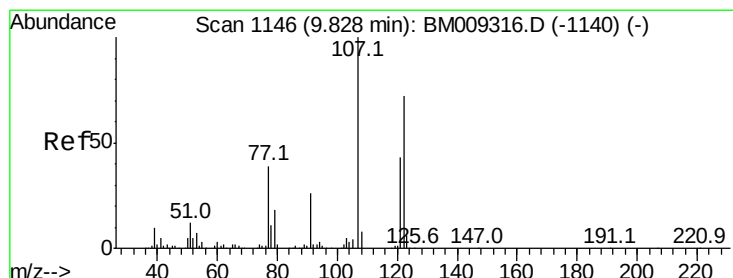
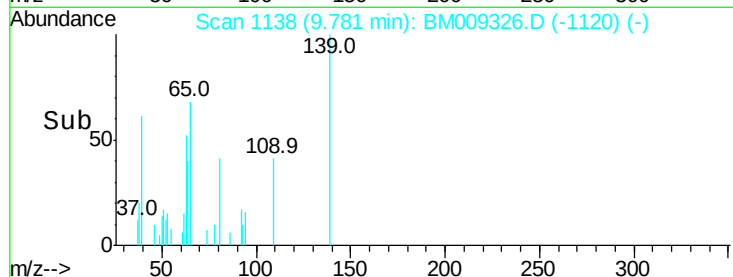
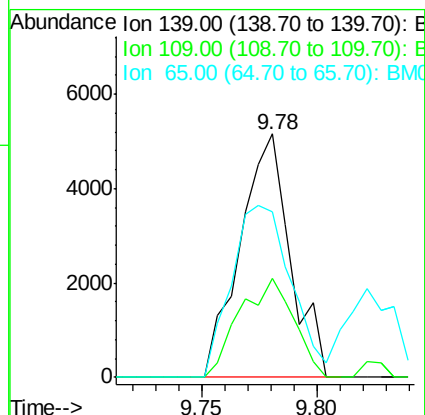
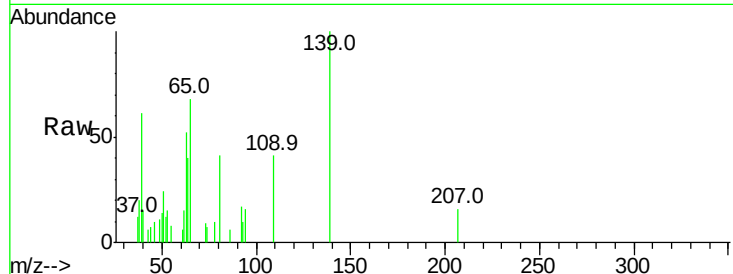




#26
2-Nitrophenol
Concen: 1.63 ng
RT: 9.78 min Scan# 1138
Delta R.T. 0.01 min
Lab File: BM009326.D
Acq: 22 Mar 2017 19:59

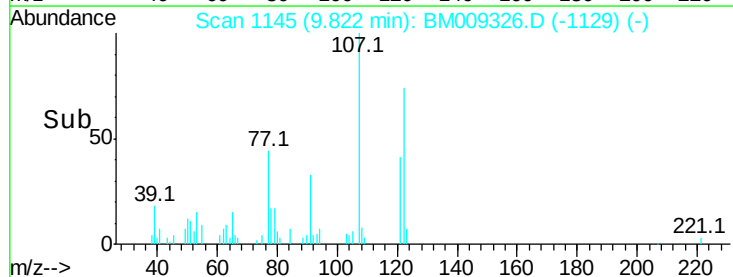
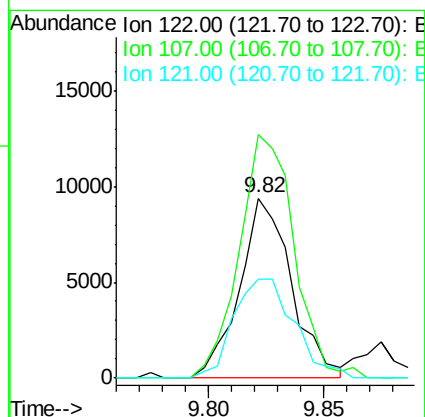
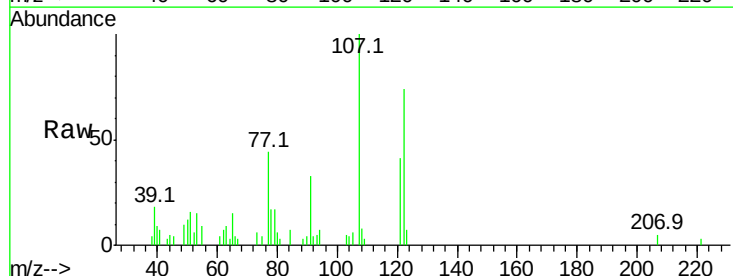
Instrument :
BNA_M
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LOD-SOIL-01-QT2-2017

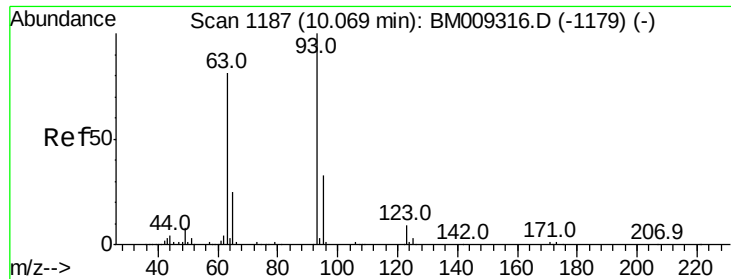
Tot Ion	Ratio	Lower	Upper
139	100		
109	40.9	20.1	30.1#
65	68.0	31.5	47.3#



#27
2,4-Dimethylphenol
Concen: 1.68 ng
RT: 9.82 min Scan# 1145
Delta R.T. -0.01 min
Lab File: BM009326.D
Acq: 22 Mar 2017 19:59

Tgt Ion	Ratio	Lower	Upper
122	100		
107	135.4	84.7	127.1#
121	55.0	46.6	69.8

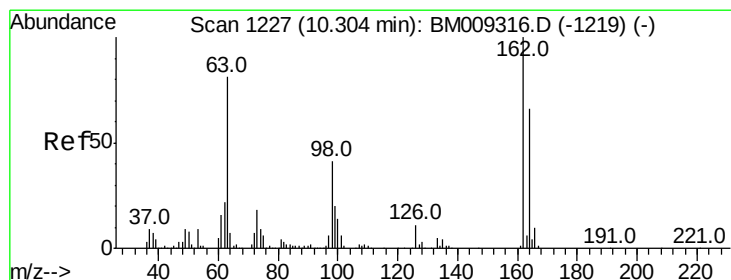
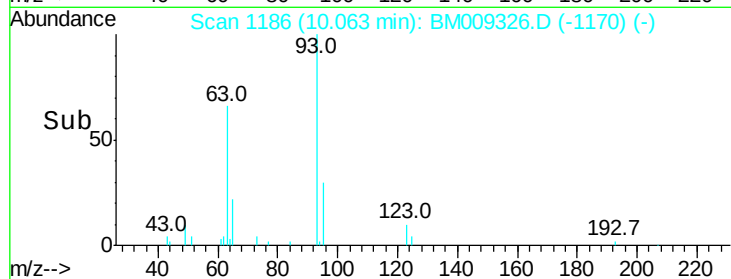
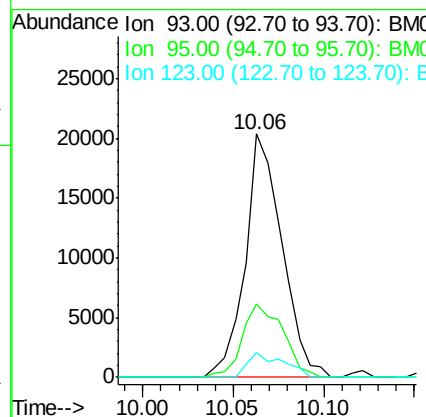
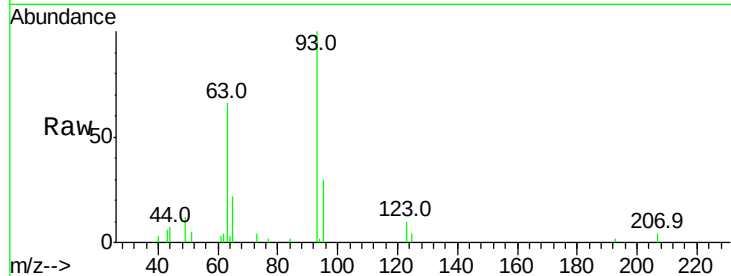




#28
bis(2-Chloroethoxy)methane
Concen: 1.87 ng
RT: 10.06 min Scan# 1186
Delta R.T. -0.01 min
Lab File: BM009326.D
Acq: 22 Mar 2017 19:59

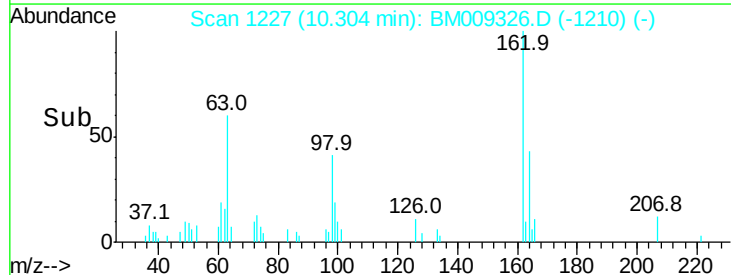
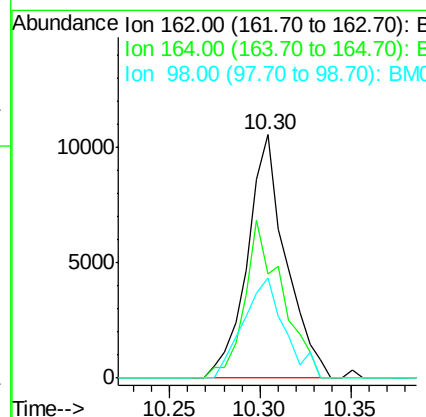
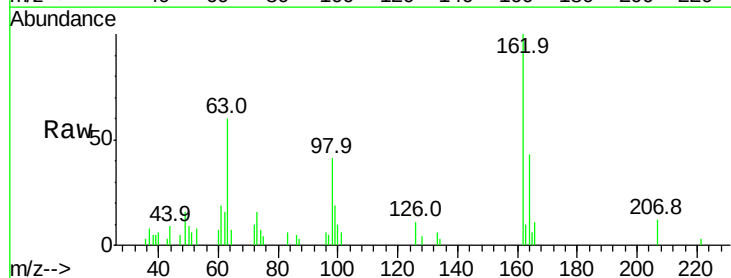
Instrument :
BNA_M
ClientSampleId :
LOD-SOIL-01-QT2-2017

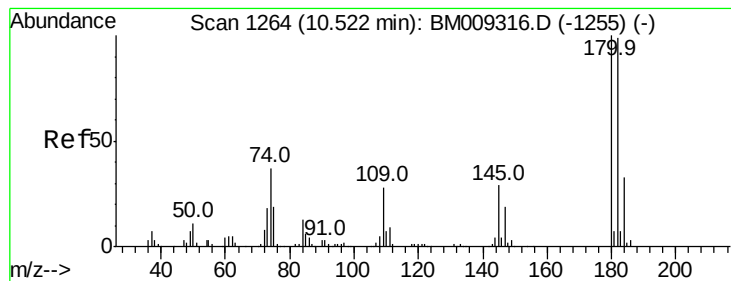
Tot Ion: 93 Resp: 28781
Ion Ratio Lower Upper
93 100
95 30.1 25.5 38.3
123 10.1 8.6 13.0



#29
2,4-Dichlorophenol
Concen: 1.69 ng
RT: 10.30 min Scan# 1227
Delta R.T. 0.00 min
Lab File: BM009326.D
Acq: 22 Mar 2017 19:59

Tgt Ion: 162 Resp: 15553
Ion Ratio Lower Upper
162 100
164 42.9 42.8 82.8
98 41.3 14.5 54.5





#30

1,2,4-Trichlorobenzene

Concen: 2.06 ng

RT: 10.52 min Scan# 1263

Delta R.T. -0.01 min

Lab File: BM009326.D

Acq: 22 Mar 2017 19:59

Instrument :

BNA_M

ClientSampleId :

LOD-SOIL-01-QT2-2017

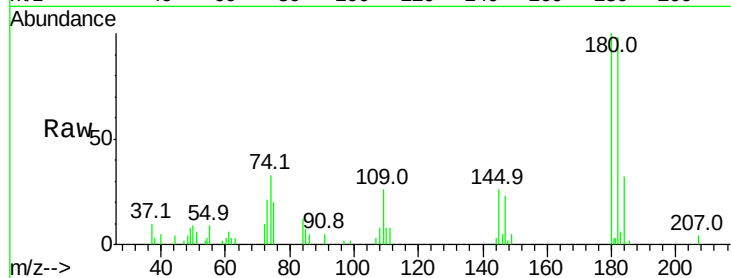
Tot Ion:180 Resp: 23524

Ion Ratio Lower Upper

180 100

182 97.6 77.6 116.4

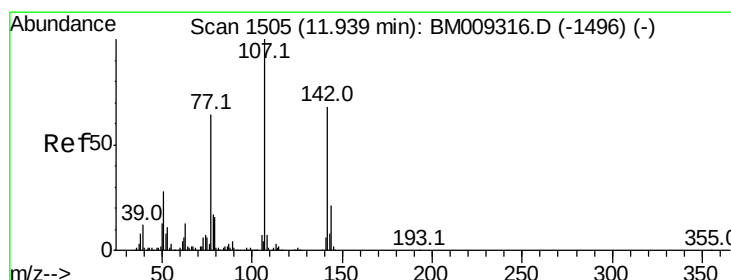
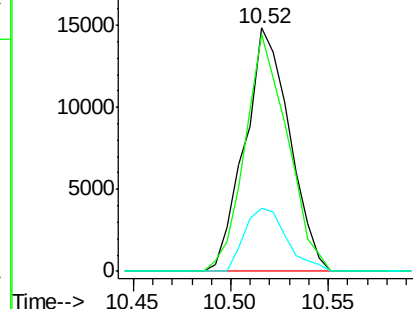
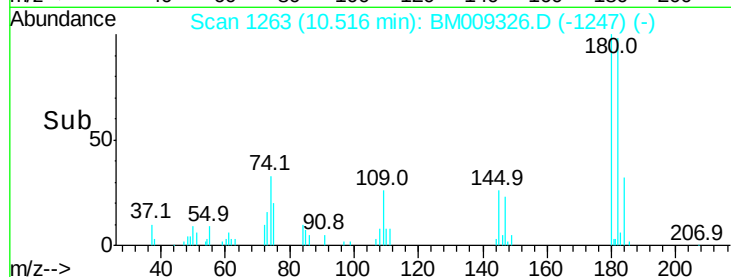
145 25.8 23.4 35.2



Abundance Ion 180.00 (179.70 to 180.70): E

Ion 182.00 (181.70 to 182.70): E

Ion 145.00 (144.70 to 145.70): E



#36

4-Chloro-3-methylphenol

Concen: 1.71 ng

RT: 11.93 min Scan# 1504

Delta R.T. -0.01 min

Lab File: BM009326.D

Acq: 22 Mar 2017 19:59

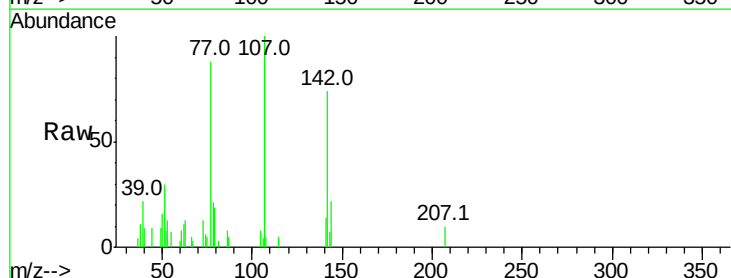
Tgt Ion:107 Resp: 17740

Ion Ratio Lower Upper

107 100

144 22.1 23.3 34.9#

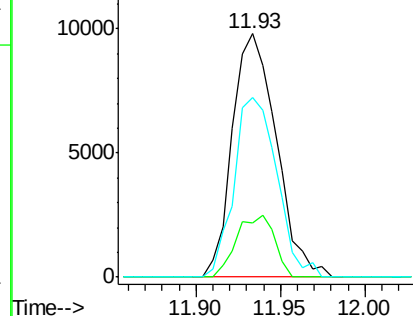
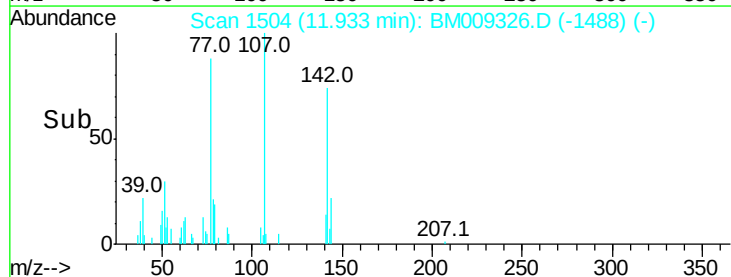
142 74.0 72.6 109.0

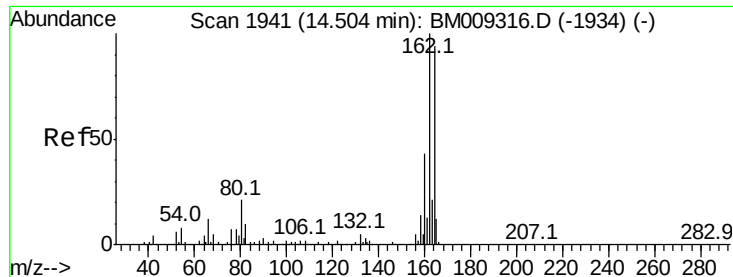


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.50 min Scan# 1941

Delta R.T. 0.00 min

Lab File: BM009326.D

Acq: 22 Mar 2017 19:59

Instrument :

BNA_M

ClientSampleId :

LOD-SOIL-01-QT2-2017

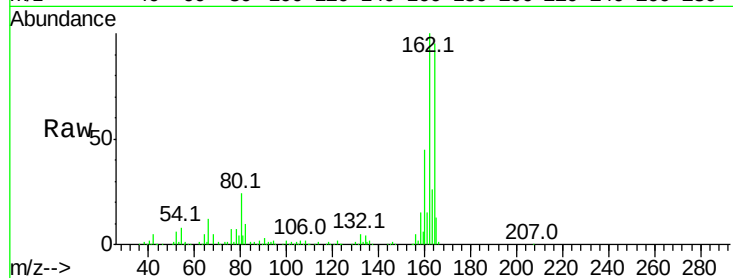
Tot Ion:164 Resp: 339233

Ion Ratio Lower Upper

164 100

162 105.1 82.4 123.6

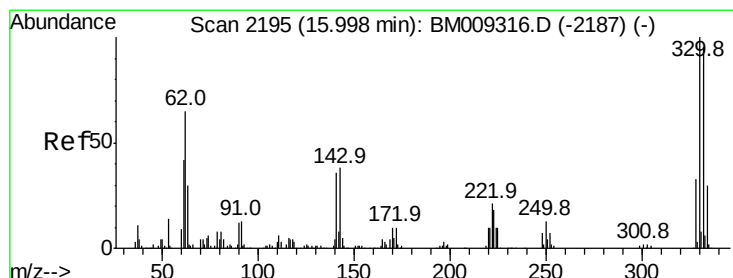
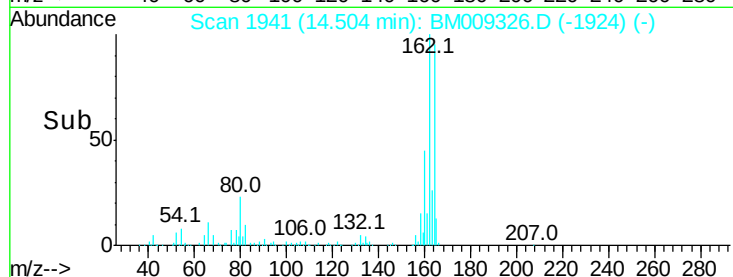
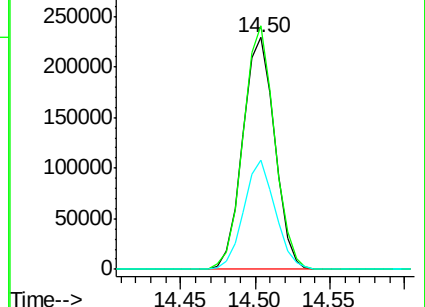
160 47.3 35.8 53.6



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 146.21 ng

RT: 15.99 min Scan# 2194

Delta R.T. -0.01 min

Lab File: BM009326.D

Acq: 22 Mar 2017 19:59

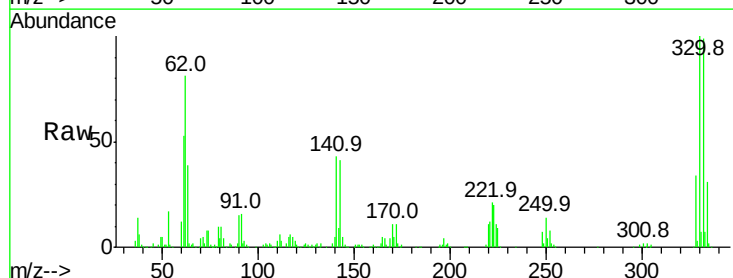
Tgt Ion:330 Resp: 616163

Ion Ratio Lower Upper

330 100

332 98.0 0.0 0.0#

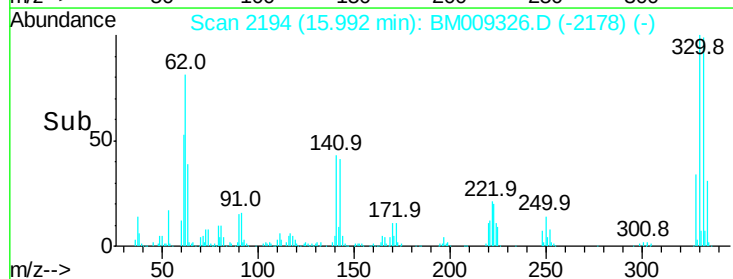
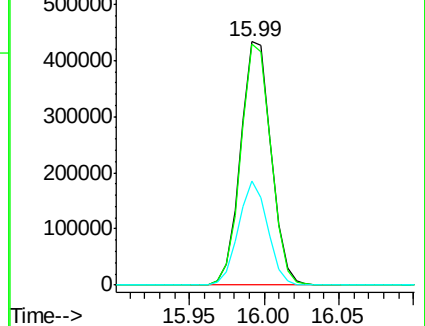
141 41.0 0.0 0.0#

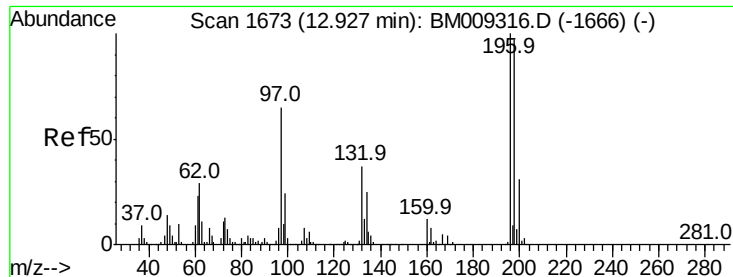


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

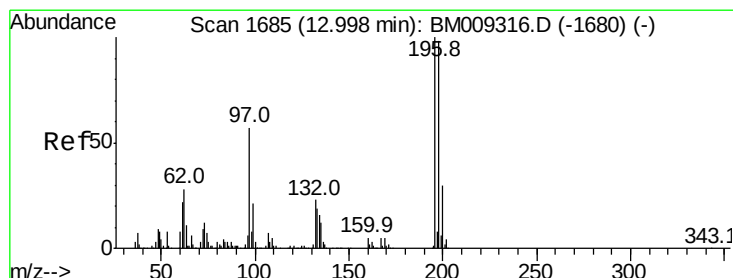
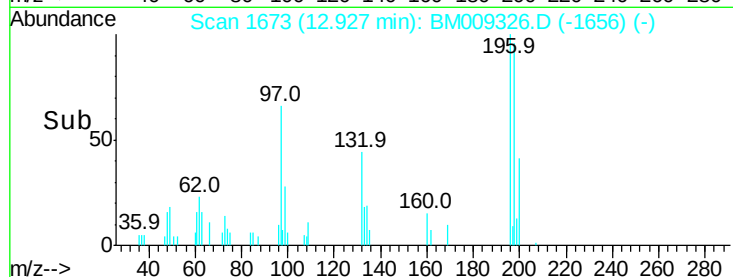
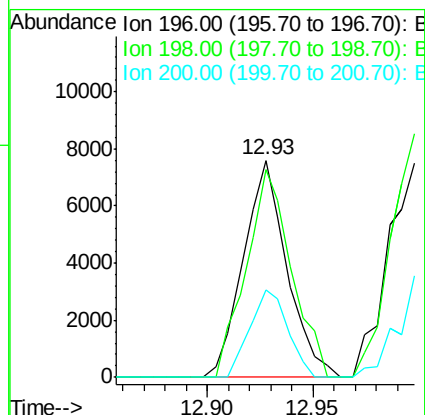
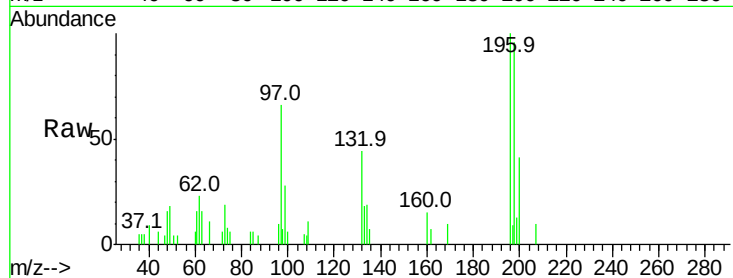




#42
2,4,6-Trichlorophenol
Concen: 1.48 ng
RT: 12.93 min Scan# 1673
Delta R.T. 0.00 min
Lab File: BM009326.D
Acq: 22 Mar 2017 19:59

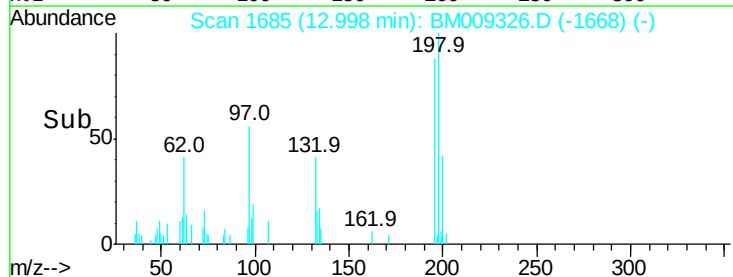
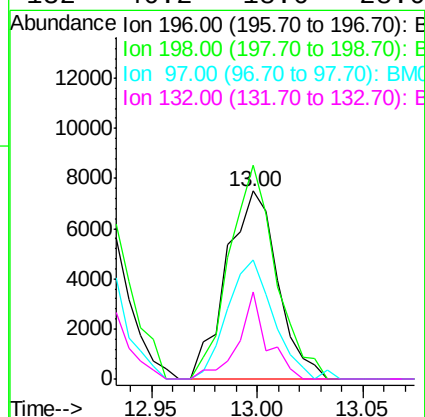
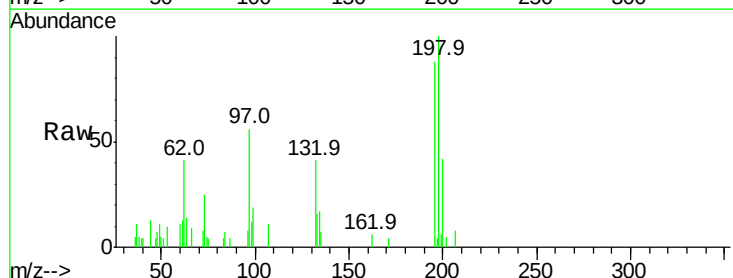
Instrument :
BNA_M
ClientSampleId :
LOD-SOIL-01-QT2-2017

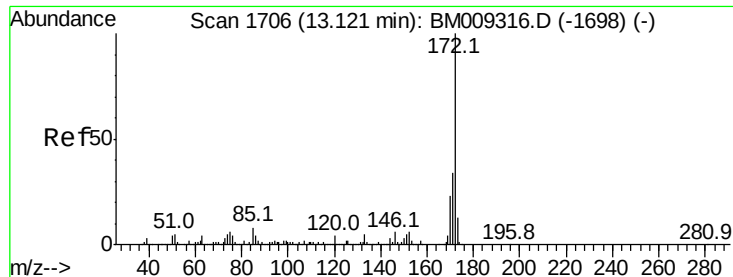
Tot Ion:196 Resp: 10833
Ion Ratio Lower Upper
196 100
198 96.1 76.3 114.5
200 40.5 25.6 38.4#



#43
2,4,5-Trichlorophenol
Concen: 1.54 ng
RT: 13.00 min Scan# 1685
Delta R.T. 0.00 min
Lab File: BM009326.D
Acq: 22 Mar 2017 19:59

Tgt Ion:196 Resp: 12610
Ion Ratio Lower Upper
196 100
198 113.6 79.4 119.0
97 63.5 26.8 40.2#
132 46.2 18.6 28.0#





#44

2-Fluorobiphenyl

Concen: 93.23 ng

RT: 13.12 min Scan# 1706

Delta R.T. 0.00 min

Lab File: BM009326.D

Acq: 22 Mar 2017 19:59

Instrument :

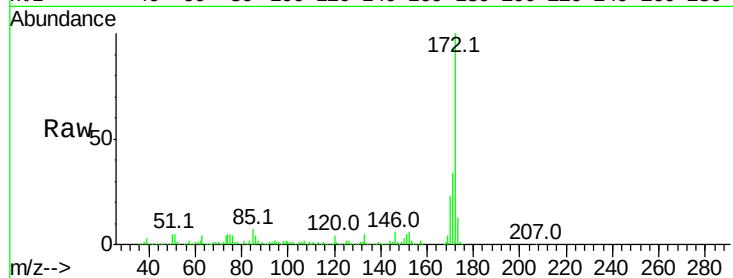
BNA_M

ClientSampleId :

LOD-SOIL-01-QT2-2017

Tot Ion:172 Resp: 2624837

Ion	Ratio	Lower	Upper
172	100		
171	33.9	28.5	42.7
170	23.2	18.8	28.2

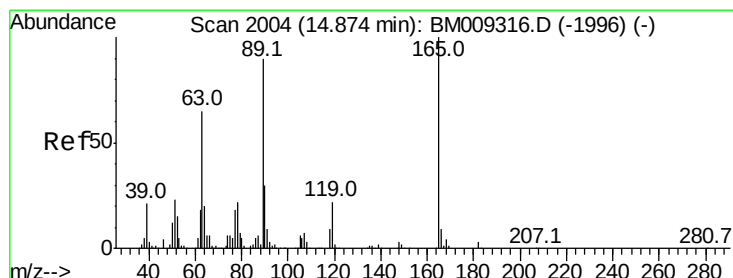
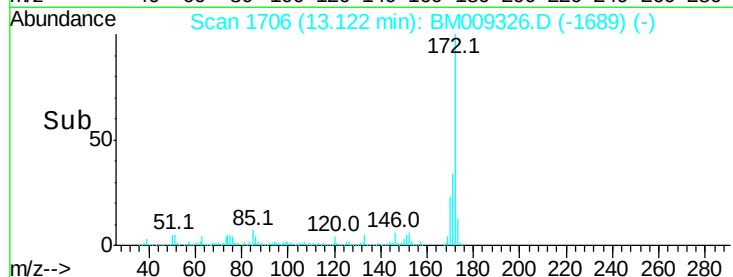
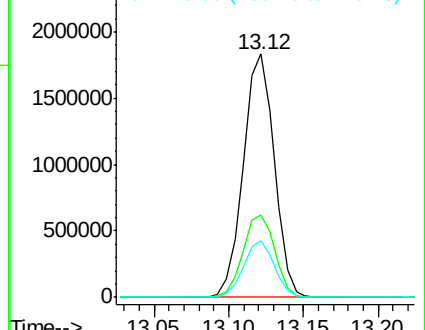


Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#56

2,4-Dinitrotoluene

Concen: 1.34 ng

RT: 14.87 min Scan# 2003

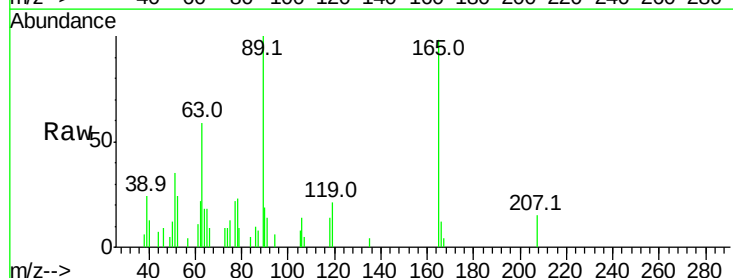
Delta R.T. -0.01 min

Lab File: BM009326.D

Acq: 22 Mar 2017 19:59

Tgt Ion:165 Resp: 10186

Ion	Ratio	Lower	Upper
165	100		
63	60.4	52.4	78.6
89	101.7	72.4	108.6
182	0.0	2.0	3.0#



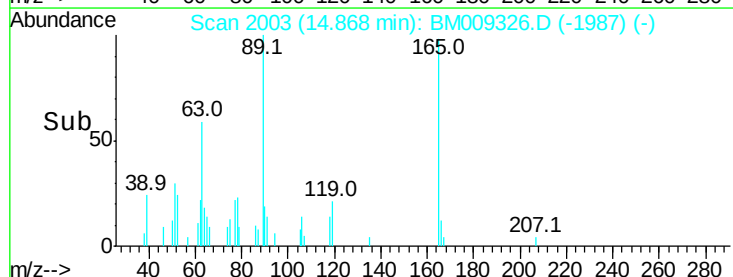
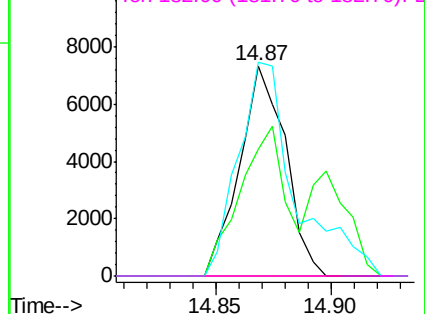
Abundance

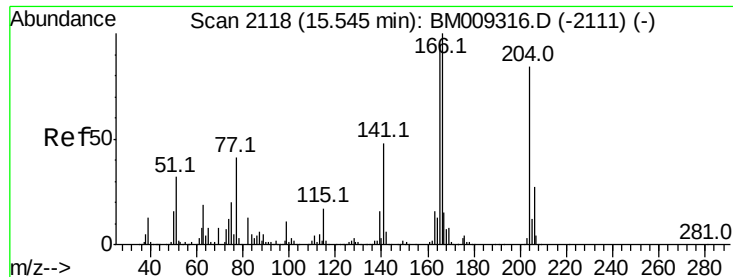
Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BM0

Ion 89.00 (88.70 to 89.70): BM0

Ion 182.00 (181.70 to 182.70): E

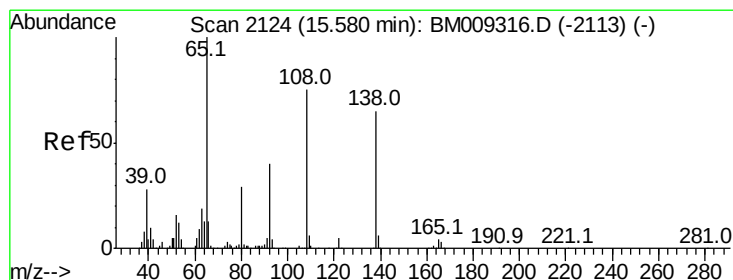
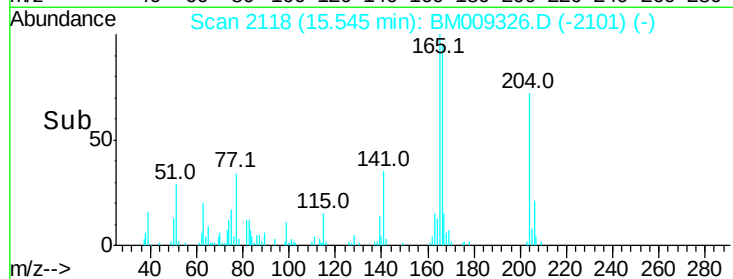
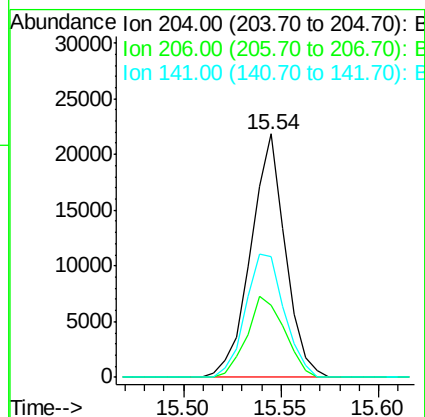
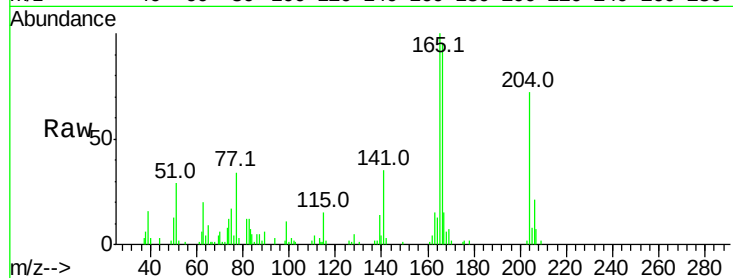




#60
4-Chlorophenyl-phenylether
Concen: 1.79 ng
RT: 15.54 min Scan# 2118
Delta R.T. 0.00 min
Lab File: BM009326.D
Acq: 22 Mar 2017 19:59

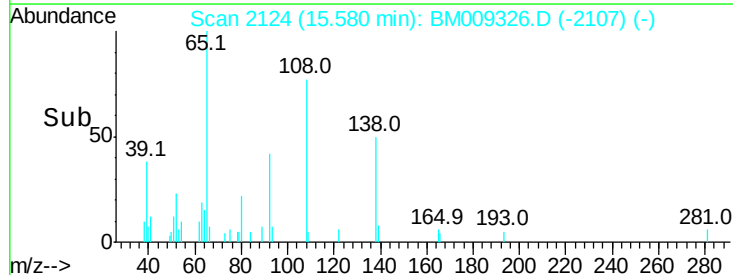
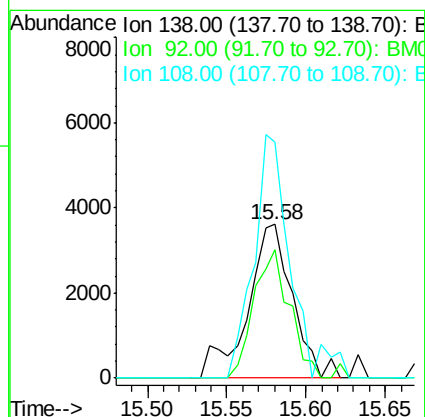
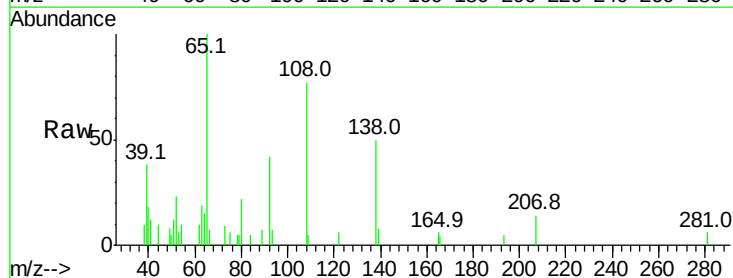
Instrument :
BNA_M
ClientSampleId :
LOD-SOIL-01-QT2-2017

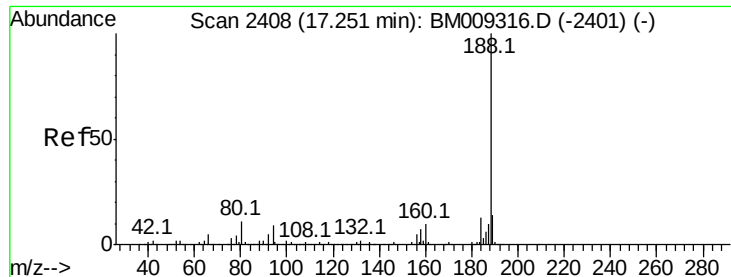
Tot Ion:204 Resp: 26772
Ion Ratio Lower Upper
204 100
206 29.4 26.6 39.8
141 49.4 45.2 67.8



#61
4-Nitroaniline
Concen: 1.18 ng
RT: 15.58 min Scan# 2124
Delta R.T. 0.00 min
Lab File: BM009326.D
Acq: 22 Mar 2017 19:59

Tgt Ion:138 Resp: 7094
Ion Ratio Lower Upper
138 100
92 83.9 16.7 56.7#
108 153.8 37.6 77.6#





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.25 min Scan# 2408

Delta R.T. 0.00 min

Lab File: BM009326.D

Acq: 22 Mar 2017 19:59

Instrument :

BNA_M

ClientSampleId :

LOD-SOIL-01-QT2-2017

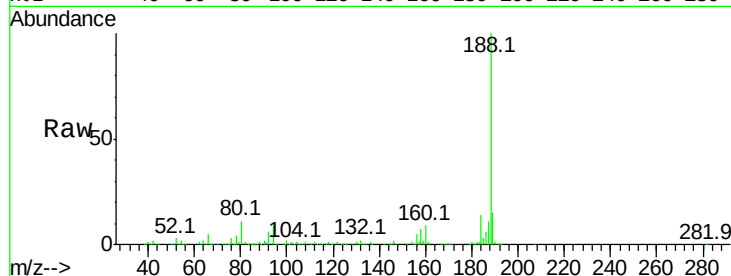
Tot Ion:188 Resp: 764873

Ion Ratio Lower Upper

188 100

94 8.9 8.7 13.1

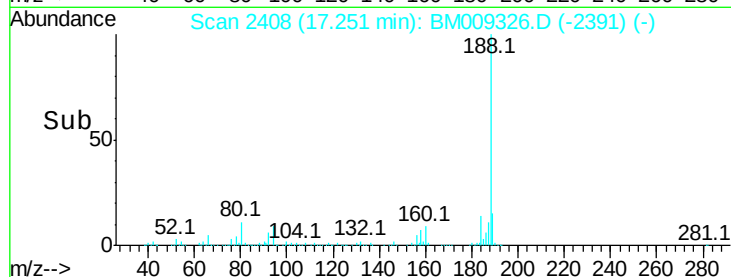
80 10.7 9.3 13.9



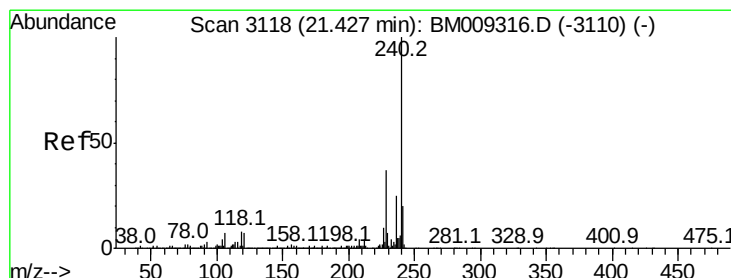
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM

Ion 80.00 (79.70 to 80.70): BM



Time-->



#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.43 min Scan# 3118

Delta R.T. 0.00 min

Lab File: BM009326.D

Acq: 22 Mar 2017 19:59

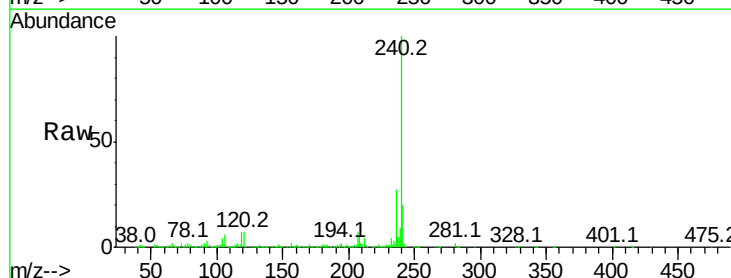
Tgt Ion:240 Resp: 947434

Ion Ratio Lower Upper

240 100

120 6.9 8.2 12.2#

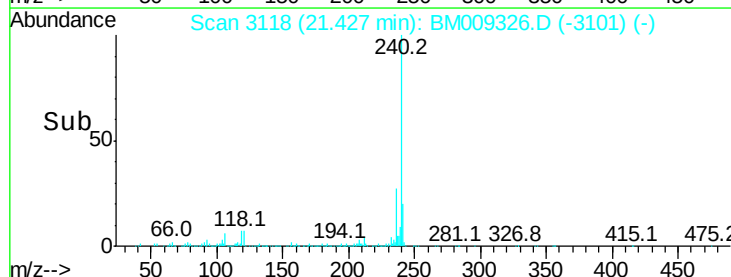
236 26.7 20.0 30.0



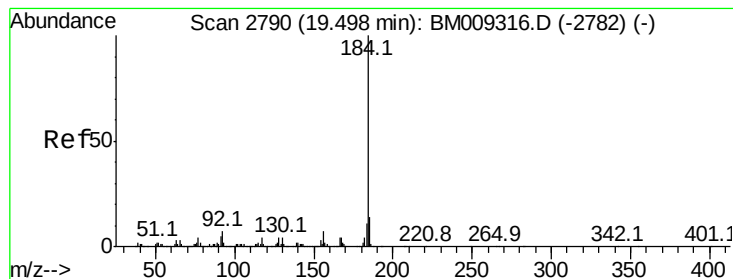
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



Time-->



#76

Benzidine

Concen: 1.25 ng

RT: 19.50 min Scan# 2790

Delta R.T. 0.00 min

Lab File: BM009326.D

Acq: 22 Mar 2017 19:59

Instrument :

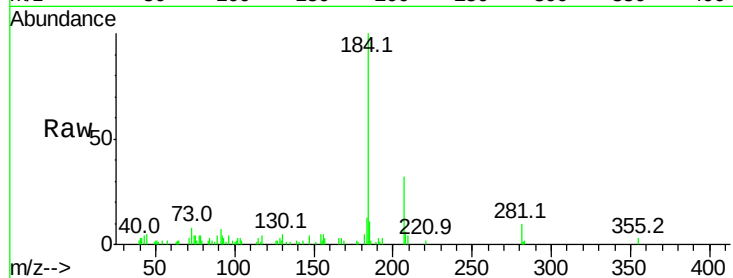
BNA_M

ClientSampleId :

LOD-SOIL-01-QT2-2017

Tot Ion:184 Resp: 35258

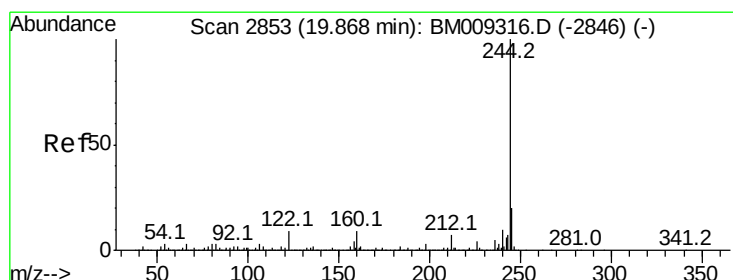
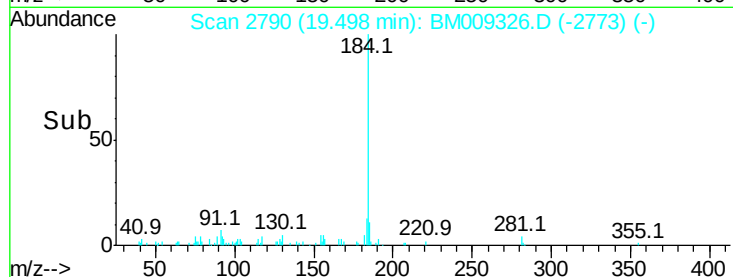
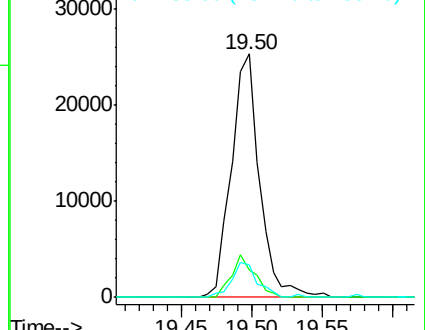
Ion	Ratio	Lower	Upper
184	100		
185	11.4	11.3	16.9
183	13.2	8.9	13.3



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Terphenyl-d14

Concen: 83.38 ng

RT: 19.87 min Scan# 2853

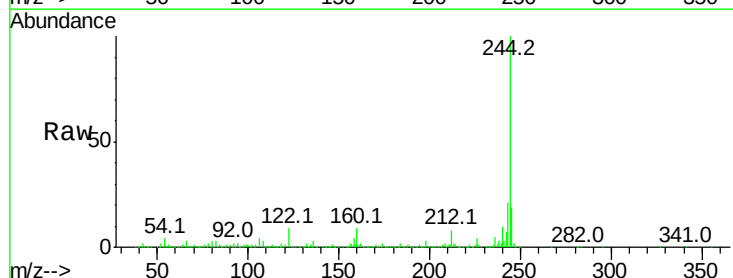
Delta R.T. 0.00 min

Lab File: BM009326.D

Acq: 22 Mar 2017 19:59

Tgt Ion:244 Resp: 3780265

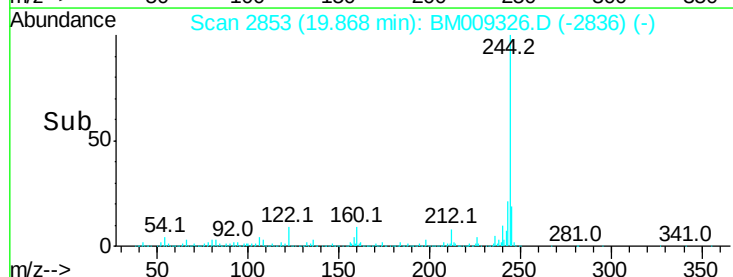
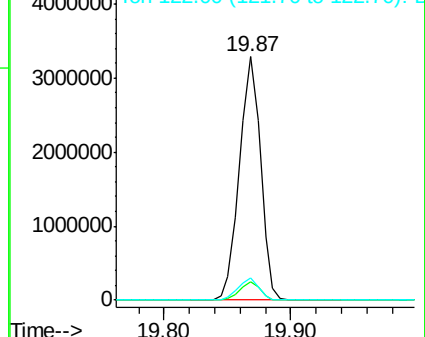
Ion	Ratio	Lower	Upper
244	100		
212	7.6	4.9	7.3#
122	8.9	6.2	9.4

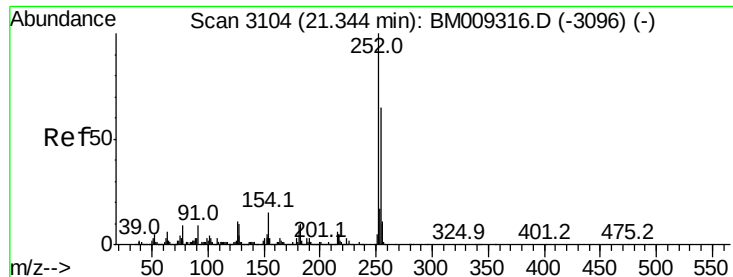


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

3,3'-Dichlorobenzidine

Concen: 1.74 ng

RT: 21.34 min Scan# 3104

Delta R.T. 0.00 min

Lab File: BM009326.D

Acq: 22 Mar 2017 19:59

Instrument :

BNA_M

ClientSampleId :

LOD-SOIL-01-QT2-2017

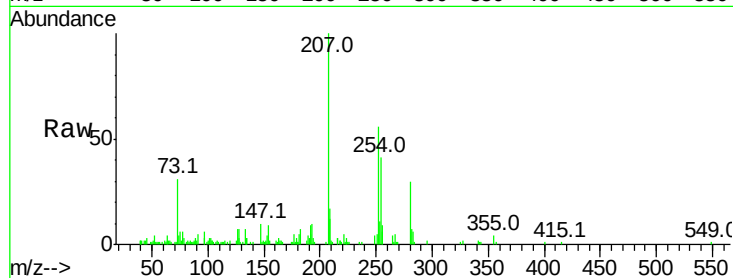
Tot Ion:252 Resp: 36094

Ion Ratio Lower Upper

252 100

254 74.1 51.9 77.9

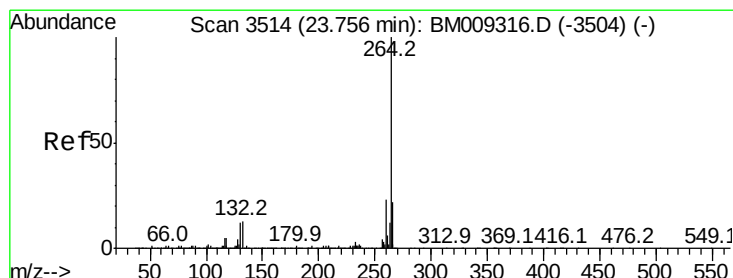
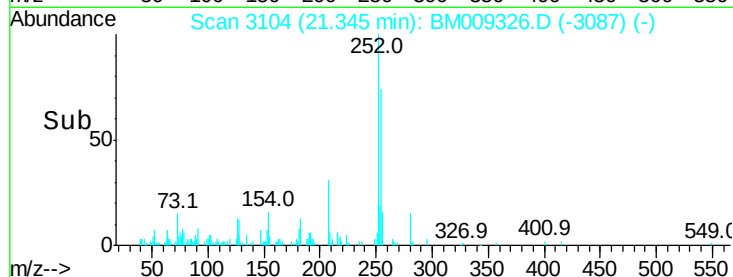
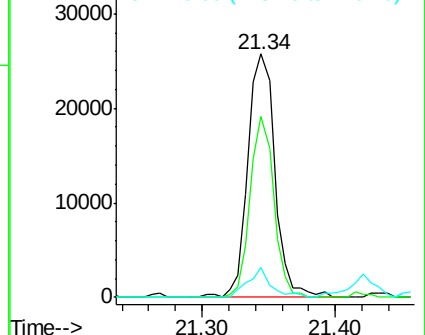
126 12.5 9.8 14.8



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 23.75 min Scan# 3513

Delta R.T. -0.01 min

Lab File: BM009326.D

Acq: 22 Mar 2017 19:59

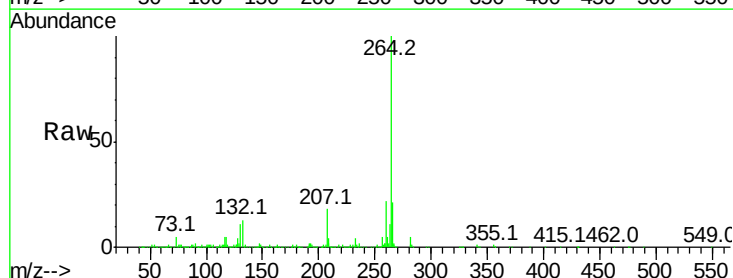
Tgt Ion:264 Resp: 903074

Ion Ratio Lower Upper

264 100

260 22.5 18.6 27.8

265 20.8 17.3 25.9



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

