

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080818\
 Data File : BF108019.D
 Acq On : 8 Aug 2018 15:05
 Operator : JU/SJ
 Sample : J3762-01
 Misc : LOD 2 PPM
 ALS Vial : 6 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

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Quant Time: Aug 09 09:44:53 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 08 12:24:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.01	152	270854	20.00	ng	0.00
21) Naphthalene-d8	8.30	136	1092699	20.00	ng	0.00
38) Acenaphthene-d10	10.06	164	590979	20.00	ng	0.00
63) Phenanthrene-d10	11.55	188	1243493	20.00	ng	0.00
75) Chrysene-d12	14.21	240	1090623	20.00	ng	0.00
86) Perylene-d12	15.77	264	937304	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.64	112	1900812	127.05	ng	0.00
7) Phenol-d6	6.63	99	2546970	128.11	ng	0.00
23) Nitrobenzene-d5	7.58	82	1702105	86.92	ng	0.00
41) 2,4,6-Tribromophenol	10.85	330	826189	140.15	ng	0.00
44) 2-Fluorobiphenyl	9.38	172	3055041	82.99	ng	0.00
78) Terphenyl-d14	13.15	244	3671178	85.59	ng	0.00

Target Compounds

						Qvalue
17) 2-Methylphenol	7.24	107	33485	2.317	ng	97
19) n-Nitroso-di-n-propylamine	7.41	70	29534	2.197	ng	# 79
20) 3+4-Methylphenols	7.40	107	42207	2.279	ng	88
22) Acetophenone	7.41	105	58650	2.295	ng	95
25) Isophorone	7.82	82	79068	2.118	ng	# 98
26) 2-Nitrophenol	7.91	139	11315	1.513	ng	90
27) 2,4-Dimethylphenol	7.93	122	36180	2.184	ng	96
28) bis(2-Chloroethoxy)methane	8.03	93	48829	2.241	ng	95
29) 2,4-Dichlorophenol	8.14	162	30635	2.010	ng	96
30) 1,2,4-Trichlorobenzene	8.24	180	37500	2.231	ng	94
36) 4-Chloro-3-methylphenol	8.82	107	31939	1.942	ng	99
42) 2,4,6-Trichlorophenol	9.28	196	19271	1.711	ng	96
43) 2,4,5-Trichlorophenol	9.31	196	22819	1.841	ng	96
56) 2,4-Dinitrotoluene	10.23	165	19449	1.754	ng	# 79
60) 4-Chlorophenyl-phenylether	10.60	204	48045	2.411	ng	89
61) 4-Nitroaniline	10.61	138	18201	1.954	ng	83
76) Benzidine	12.90	184	20869	0.512	ng	# 92
81) 3,3'-Dichlorobenzidine	14.16	252	24287	1.083	ng	# 96

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

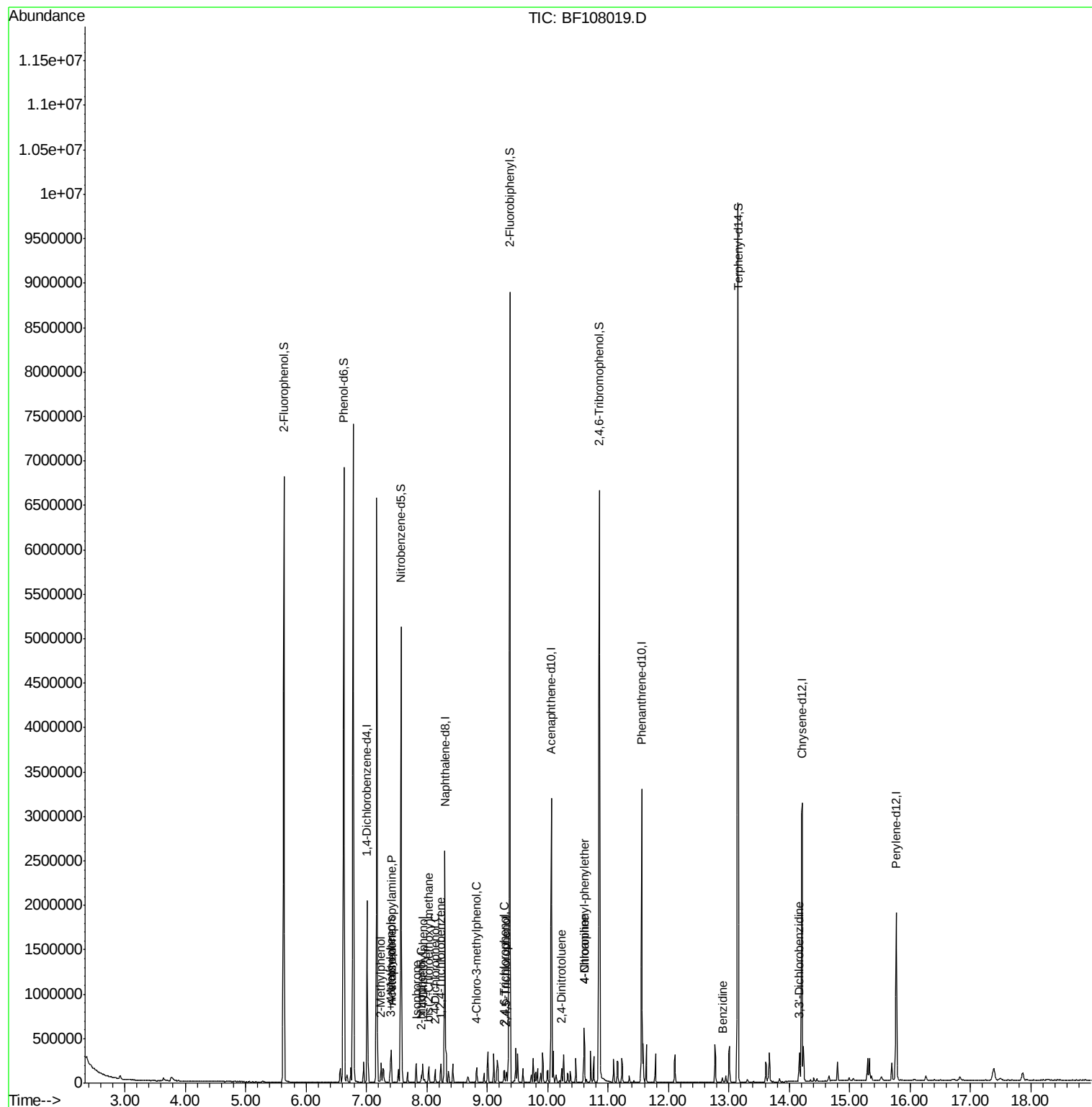
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080818\
Data File : BF108019.D
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Misc : LOD 2 PPM
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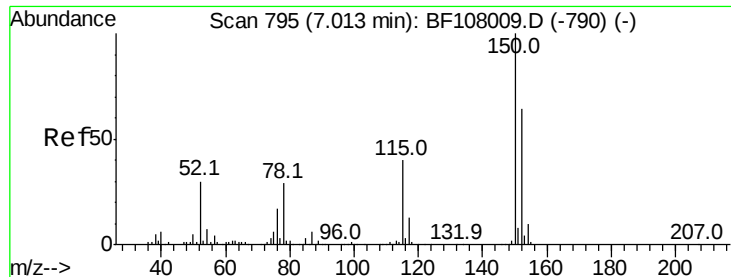
Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

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QLast Update : Wed Aug 08 12:24:24 2018
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#1

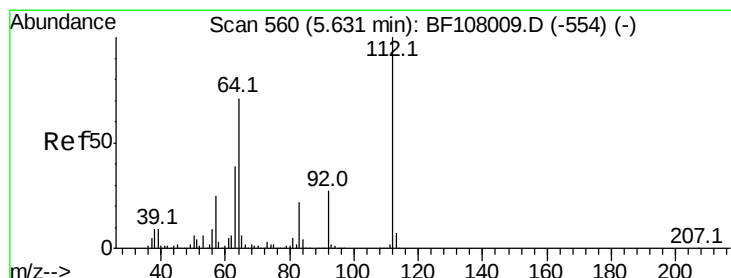
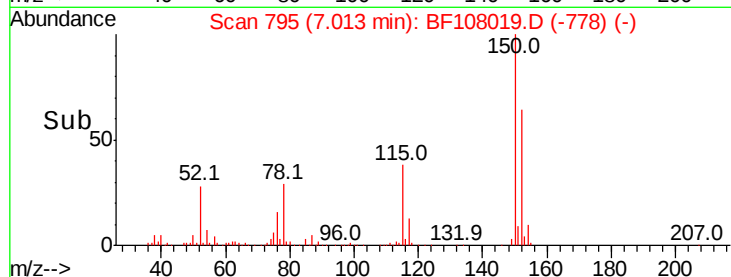
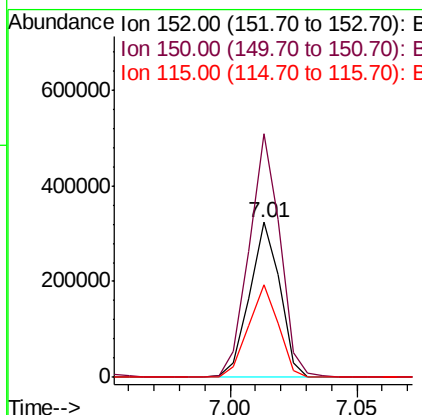
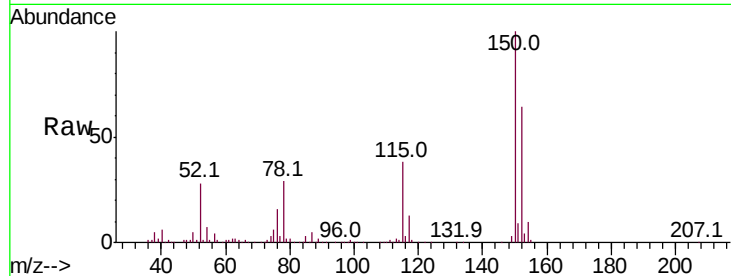
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.01 min Scan# 795
Delta R.T. 0.00 min
Lab File: BF108019.D
Acq: 8 Aug 2018 15:05

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

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.9	124.6	186.8
115	59.9	50.1	75.1

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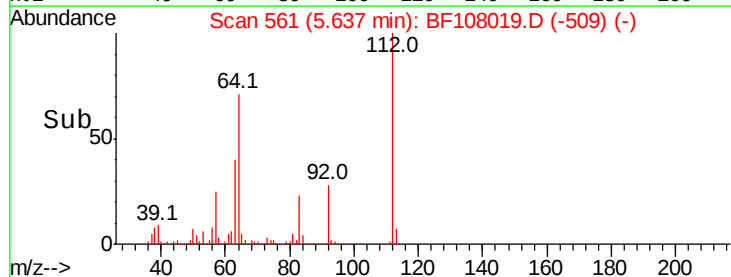
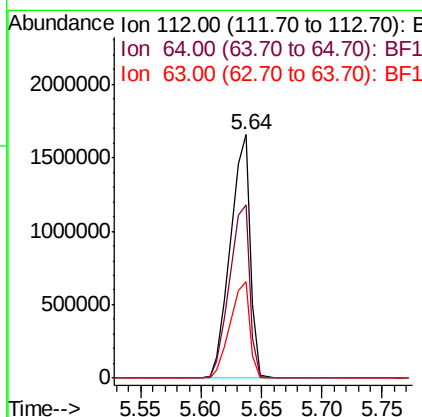
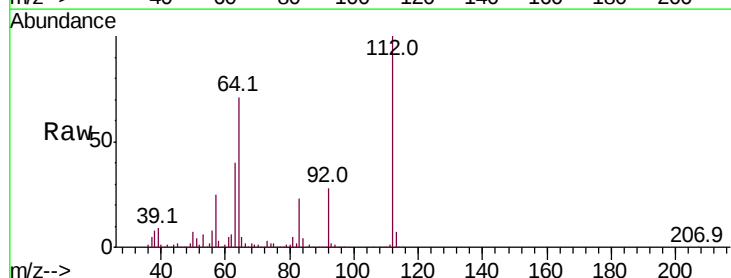
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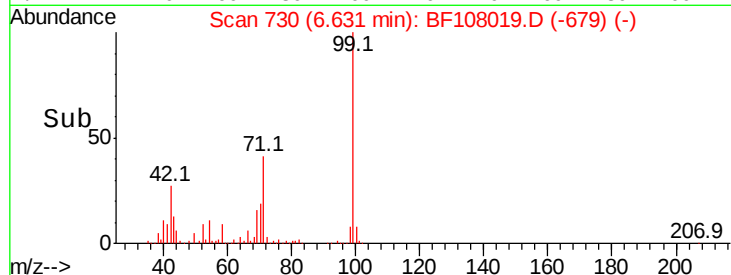
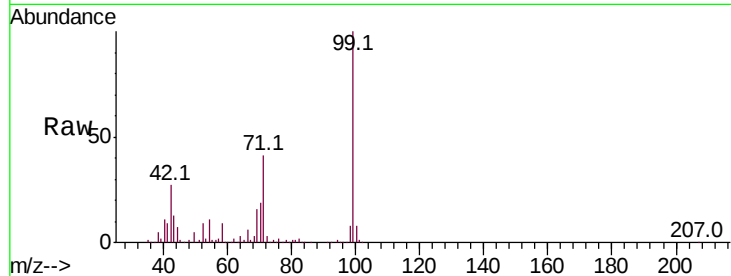
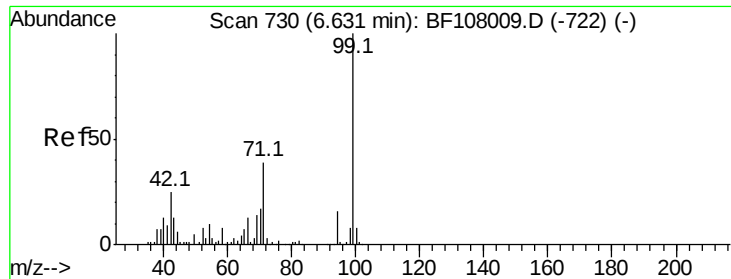


#5

2-Fluorophenol
Concen: 127.055 ng
RT: 5.64 min Scan# 561
Delta R.T. 0.01 min
Lab File: BF108019.D
Acq: 8 Aug 2018 15:05

Tgt Ion	Ratio	Lower	Upper
112	100		
64	71.3	47.9	71.9
63	39.7	23.7	35.5#





#7

Phenol-d6

Concen: 128.114 ng

RT: 6.63 min Scan# 730

Delta R.T. 0.00 min

Lab File: BF108019.D

Acq: 8 Aug 2018 15:05

Tot Ion: 99 Resp: 2546970

Ion Ratio Lower Upper

99 100

42 27.1 14.5 21.7#

71 41.0 25.4 38.0#

Instrument :

BNA_F

ClientSampleId :

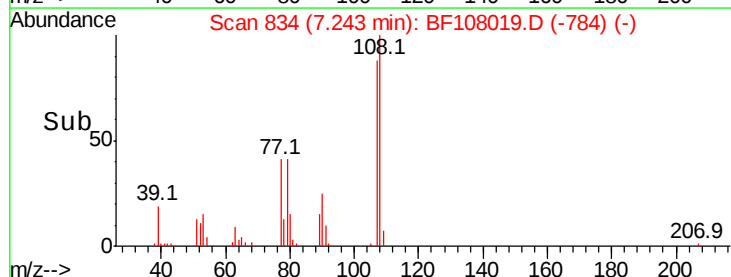
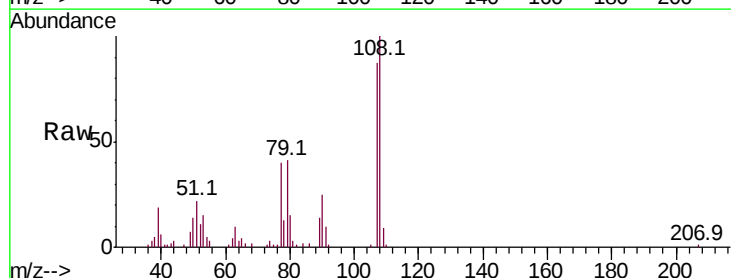
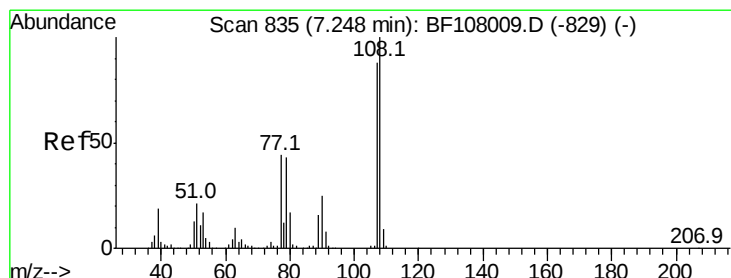
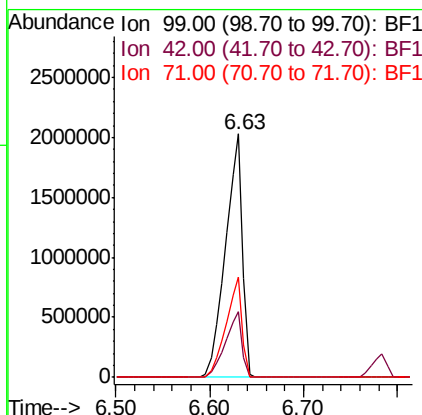
LOD-MDL-SOIL-01-QT3-2018

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#17

2-Methylphenol

Concen: 2.317 ng

RT: 7.24 min Scan# 834

Delta R.T. -0.01 min

Lab File: BF108019.D

Acq: 8 Aug 2018 15:05

Tgt Ion:107 Resp: 33485

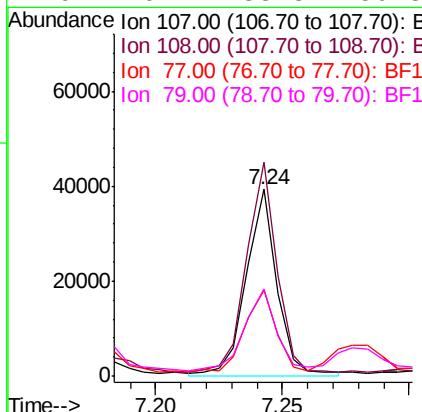
Ion Ratio Lower Upper

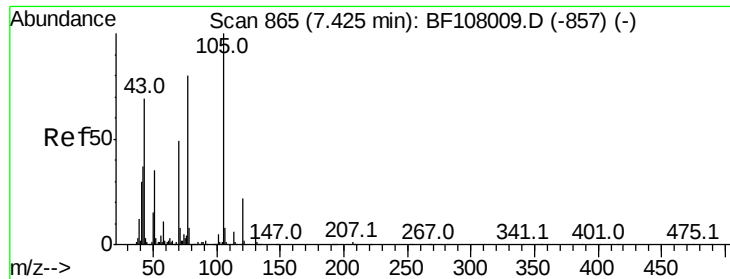
107 100

108 114.4 91.7 137.5

77 45.9 33.8 50.8

79 46.4 33.8 50.8





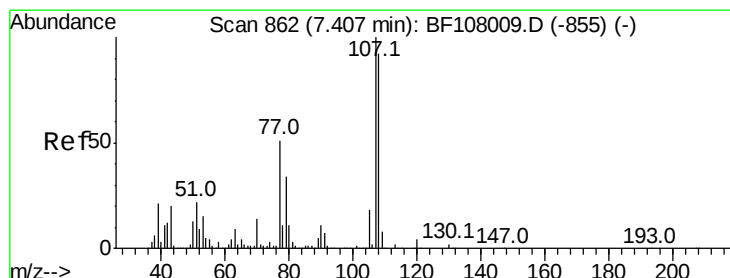
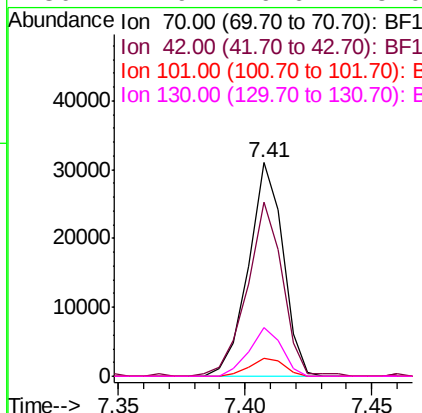
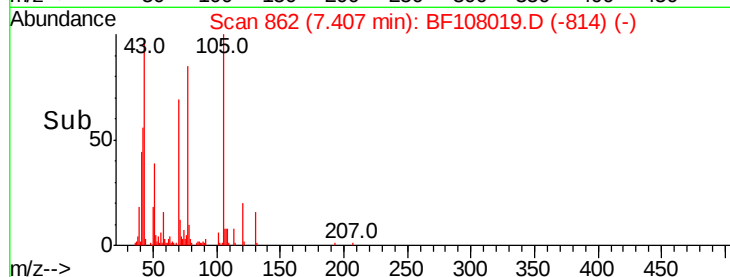
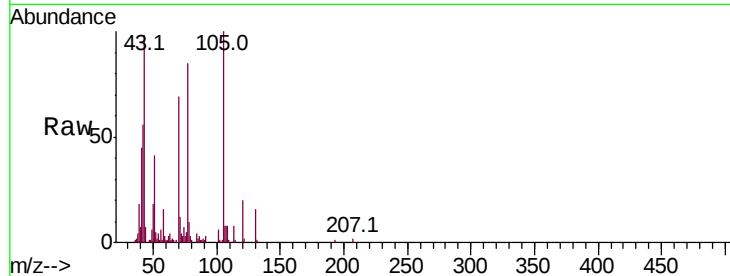
#19
n-Nitroso-di-n-propylamine
Concen: 2.197 ng
RT: 7.41 min Scan# 862
Delta R.T. -0.02 min
Lab File: BF108019.D
Acq: 8 Aug 2018 15:05

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

Tot Ion	Ratio	Lower	Upper
70	100		
42	81.5	47.5	71.3#
101	8.5	7.4	11.2
130	22.9	16.6	25.0

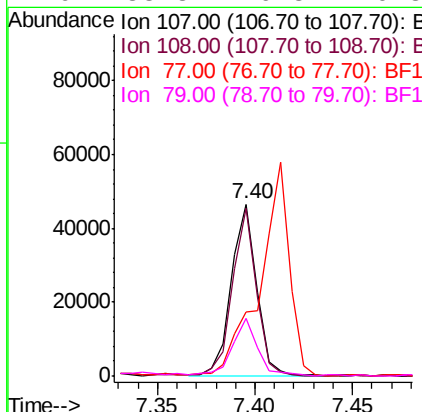
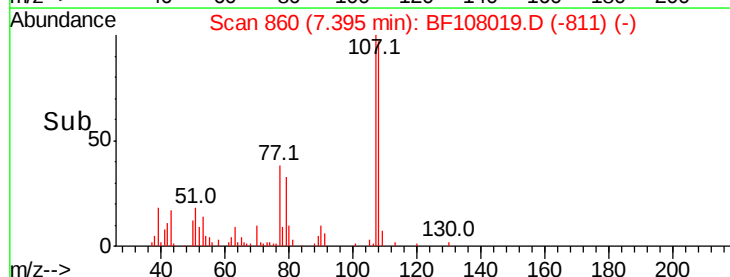
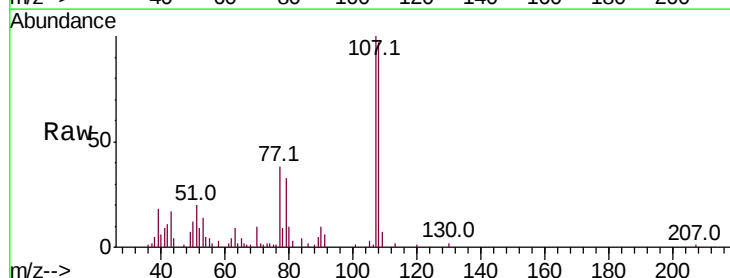
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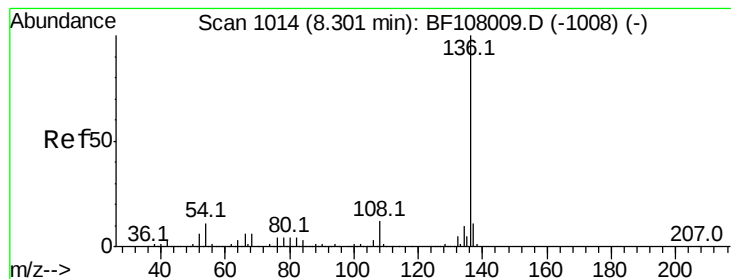
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#20
3+4-Methylphenols
Concen: 2.279 ng
RT: 7.40 min Scan# 860
Delta R.T. -0.01 min
Lab File: BF108019.D
Acq: 8 Aug 2018 15:05

Tgt Ion	Ratio	Lower	Upper
107	100		
108	97.5	68.2	108.2
77	37.6	26.7	66.7
79	33.3	6.3	46.3





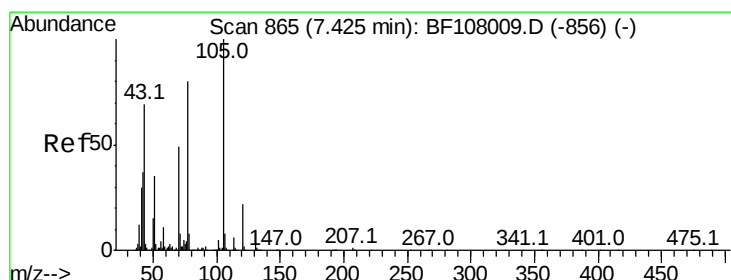
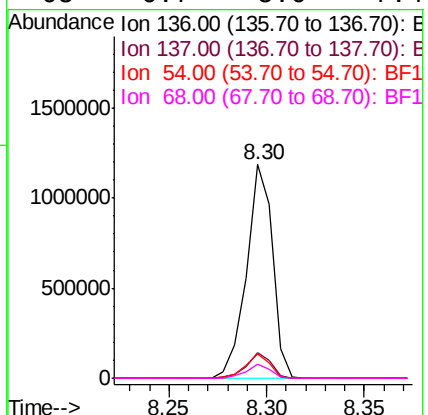
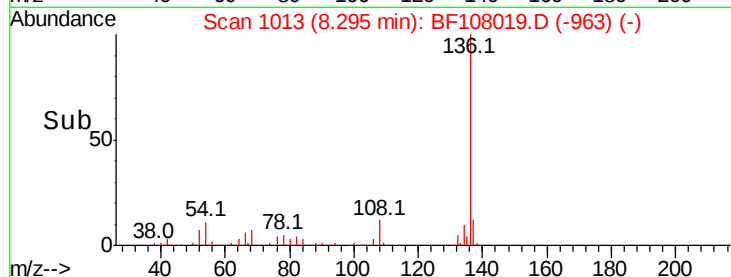
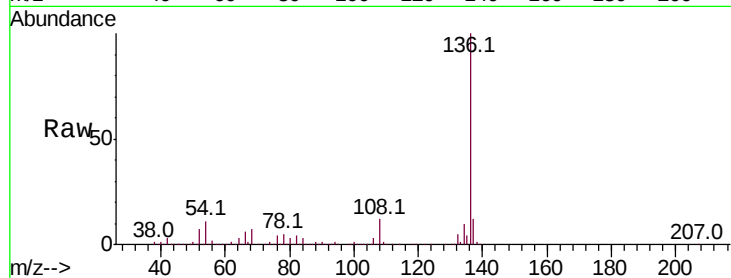
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.30 min Scan# 1013
Delta R.T. -0.01 min
Lab File: BF108019.D
Acq: 8 Aug 2018 15:05

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

Tot Ion	Ratio	Lower	Upper
136	100		
137	11.7	8.9	13.3
54	11.4	6.6	9.8#
68	6.7	5.0	7.4

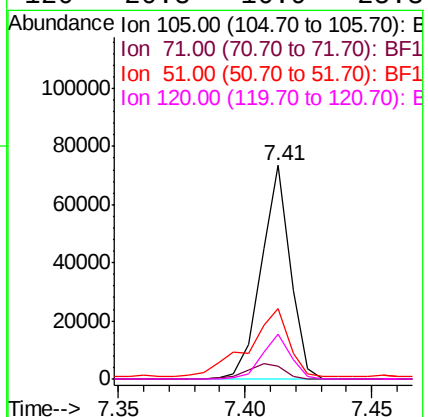
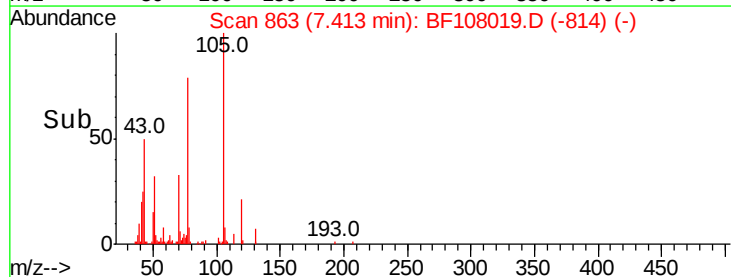
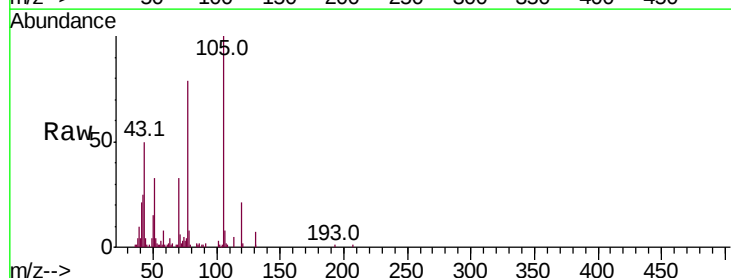
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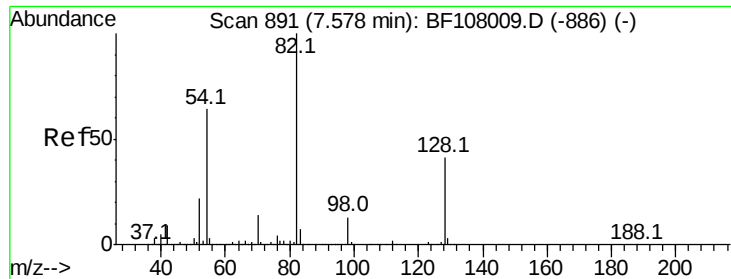
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#22
Acetophenone
Concen: 2.295 ng
RT: 7.41 min Scan# 863
Delta R.T. -0.01 min
Lab File: BF108019.D
Acq: 8 Aug 2018 15:05

Tgt Ion	Ratio	Lower	Upper
105	100		
71	5.9	4.4	6.6
51	32.9	22.3	33.5
120	20.8	16.9	25.3





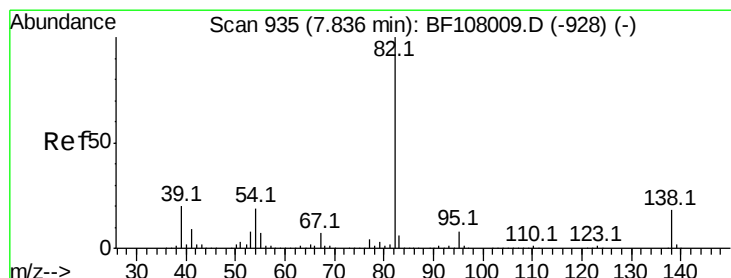
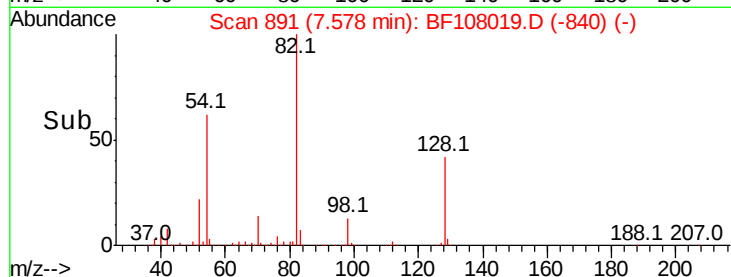
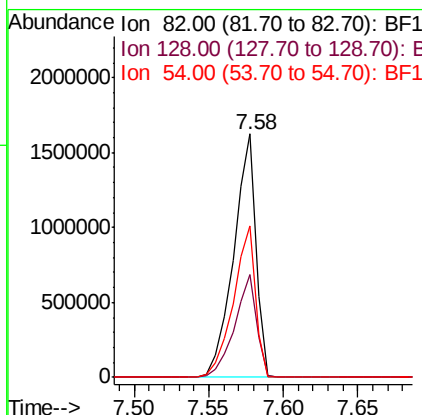
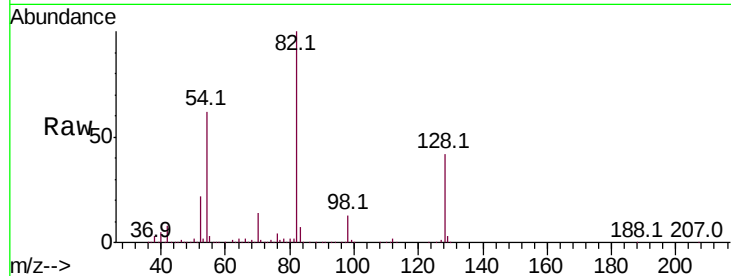
#23
 Nitrobenzene-d5
 Concen: 86.922 ng
 RT: 7.58 min Scan# 891
 Delta R.T. 0.00 min
 Lab File: BF108019.D
 Acq: 8 Aug 2018 15:05

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

Tot Ion: 82 Resp: 1702105
 Ion Ratio Lower Upper
 82 100
 128 42.4 36.1 54.1
 54 62.3 41.4 62.2#

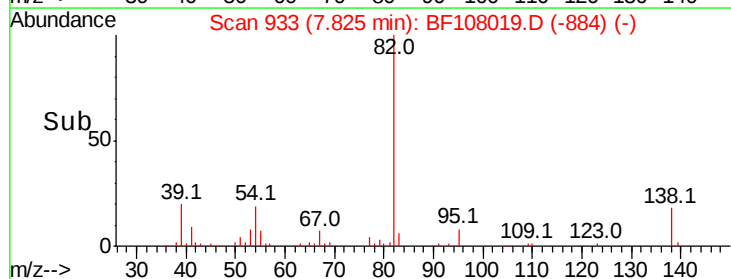
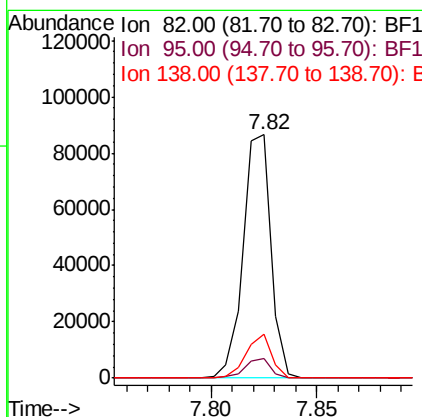
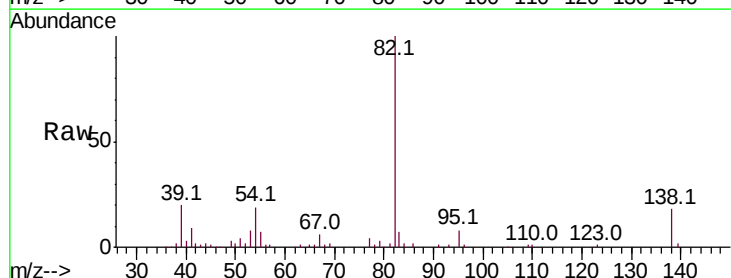
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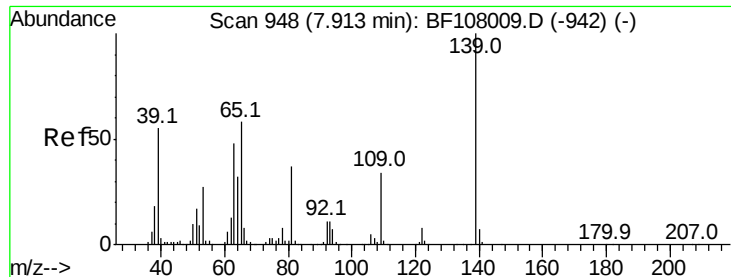
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#25
 Isophorone
 Concen: 2.118 ng
 RT: 7.82 min Scan# 933
 Delta R.T. -0.01 min
 Lab File: BF108019.D
 Acq: 8 Aug 2018 15:05

Tgt Ion: 82 Resp: 79068
 Ion Ratio Lower Upper
 82 100
 95 8.0 5.2 7.8#
 138 18.3 14.9 22.3





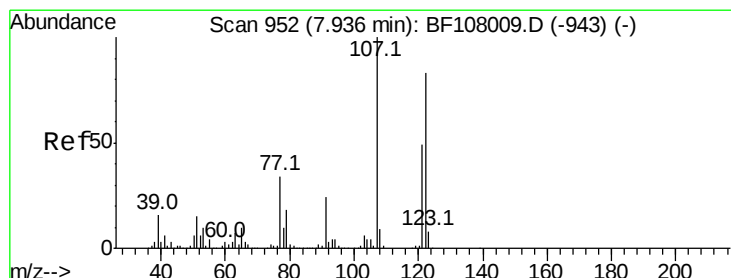
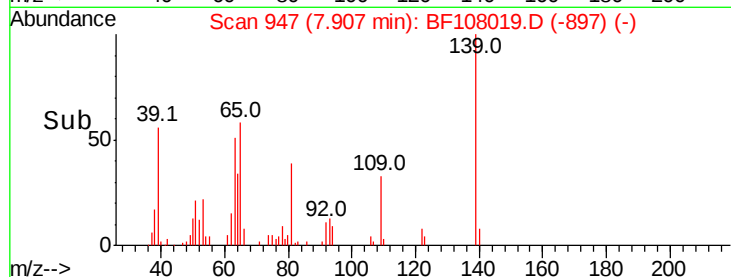
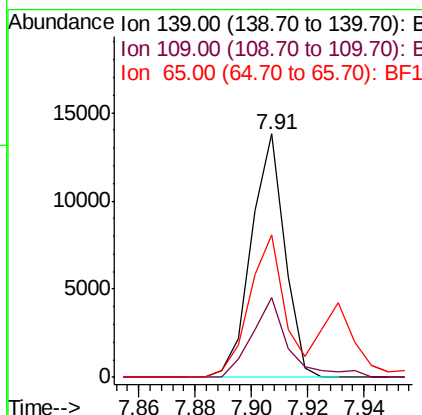
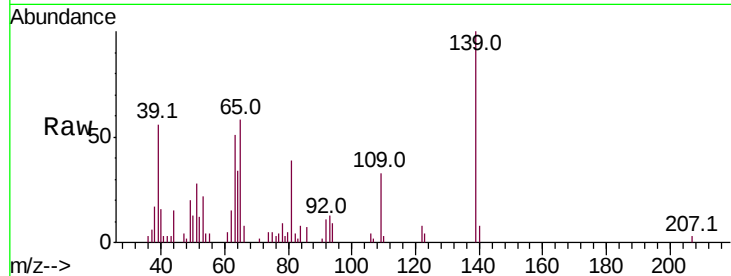
#26
2-Nitrophenol
Concen: 1.513 ng
RT: 7.91 min Scan# 947
Delta R.T. -0.01 min
Lab File: BF108019.D
Acq: 8 Aug 2018 15:05

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

Tot Ion:	139	Resp:	11315
Ion Ratio	Lower	Upper	
139	100		
109	32.6	22.7	34.1
65	58.4	40.5	60.7

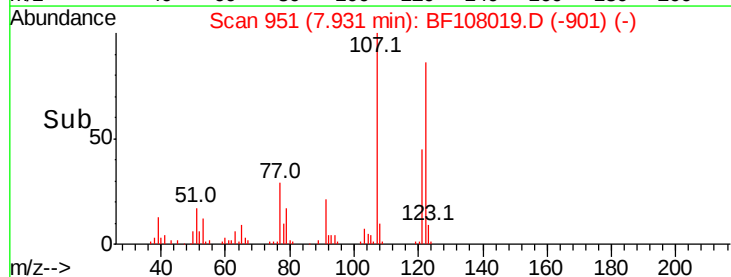
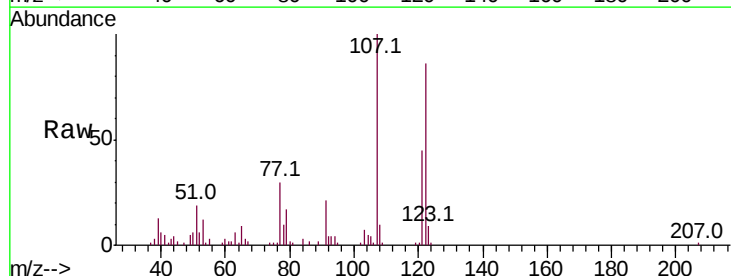
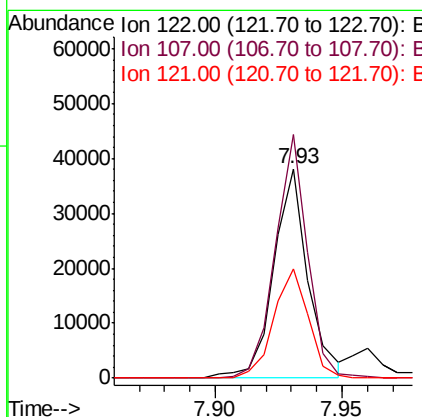
Manual Integrations
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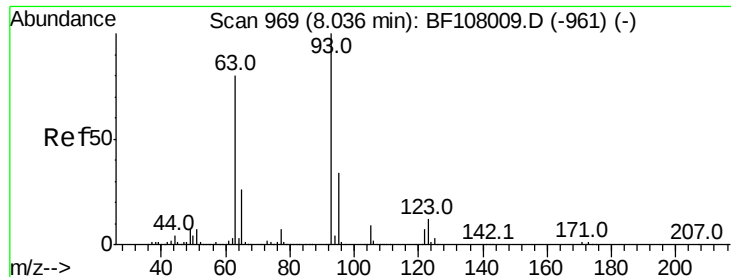
Sohil
8/9/2018 5:01:13 PM



#27
2,4-Dimethylphenol
Concen: 2.184 ng
RT: 7.93 min Scan# 951
Delta R.T. -0.01 min
Lab File: BF108019.D
Acq: 8 Aug 2018 15:05

Tgt Ion:	122	Resp:	36180
Ion Ratio	Lower	Upper	
122	100		
107	116.2	91.2	136.8
121	52.4	47.2	70.8





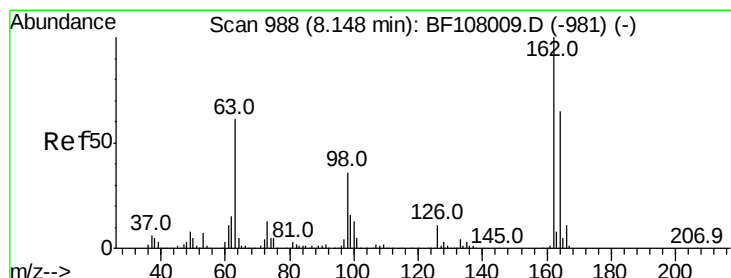
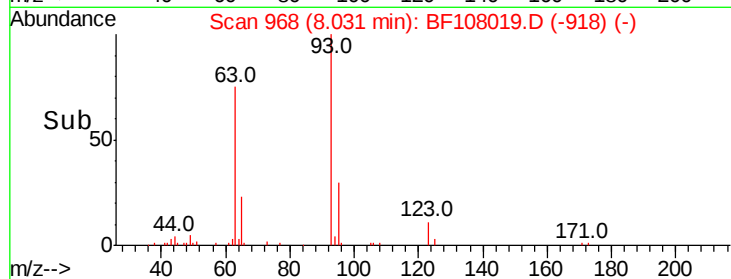
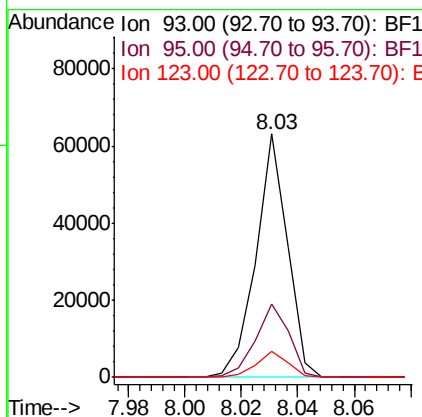
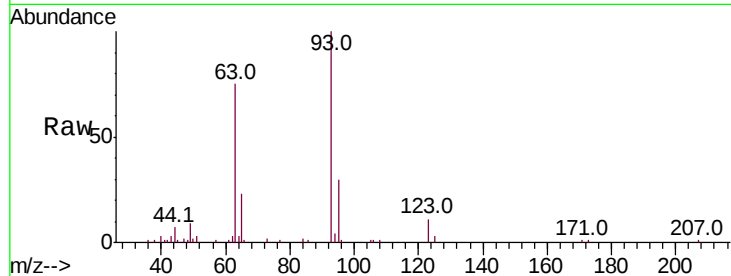
#28
bis(2-Chloroethoxy)methane
Concen: 2.241 ng
RT: 8.03 min Scan# 968
Delta R.T. -0.01 min
Lab File: BF108019.D
Acq: 8 Aug 2018 15:05

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

Tot Ion:	93	Resp:	48829
Ion Ratio	Lower	Upper	
93	100		
95	30.0	26.3	39.5
123	10.8	9.8	14.6

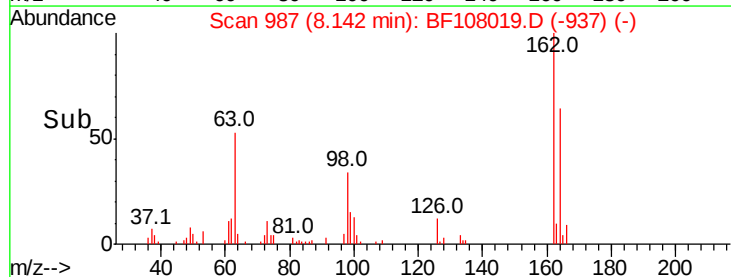
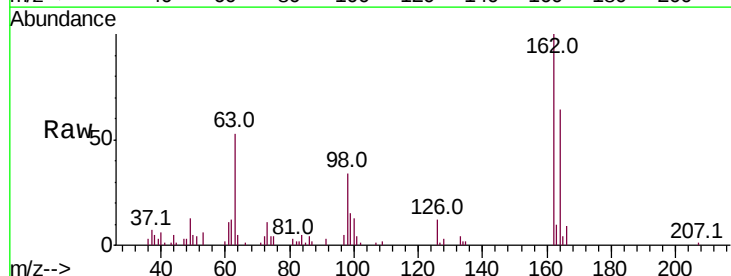
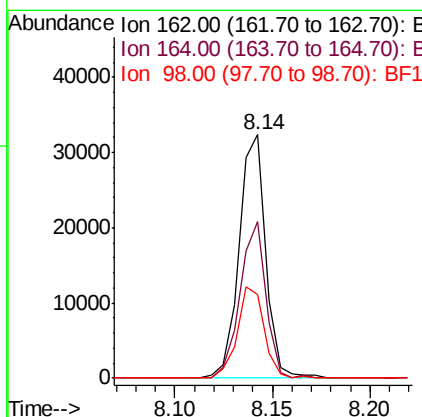
Manual Integrations
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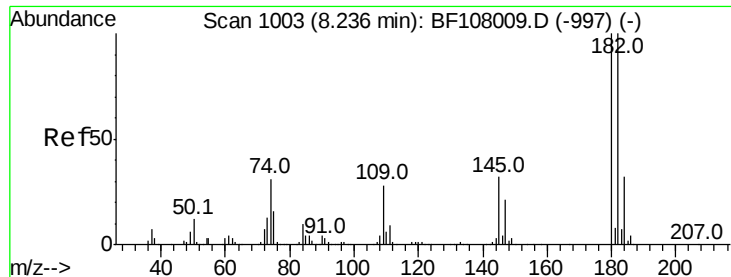
Sohil
8/9/2018 5:01:13 PM



#29
2,4-Dichlorophenol
Concen: 2.010 ng
RT: 8.14 min Scan# 987
Delta R.T. -0.01 min
Lab File: BF108019.D
Acq: 8 Aug 2018 15:05

Tgt Ion:	162	Resp:	30635
Ion Ratio	Lower	Upper	
162	100		
164	64.1	42.7	82.7
98	34.2	18.1	58.1





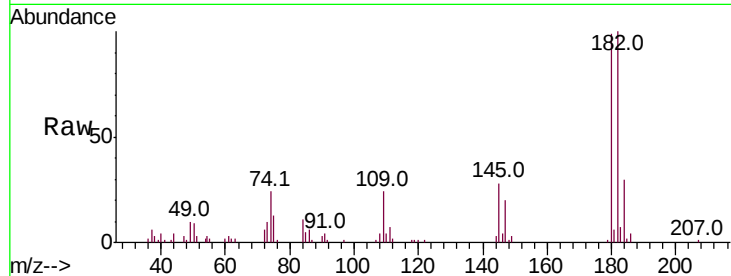
#30
 1,2,4-Trichlorobenzene
 Concen: 2.231 ng
 RT: 8.24 min Scan# 1003
 Delta R.T. 0.00 min
 Lab File: BF108019.D
 Acq: 8 Aug 2018 15:05

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

Tot Ion	Ratio	Lower	Upper
180	100		
182	100.7	76.8	115.2
145	28.0	26.5	39.7

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 8/9/2018 5:01:13 PM

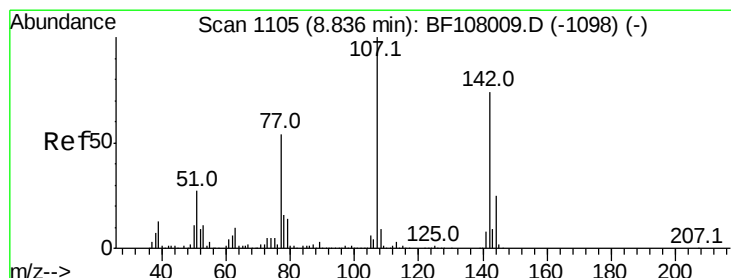
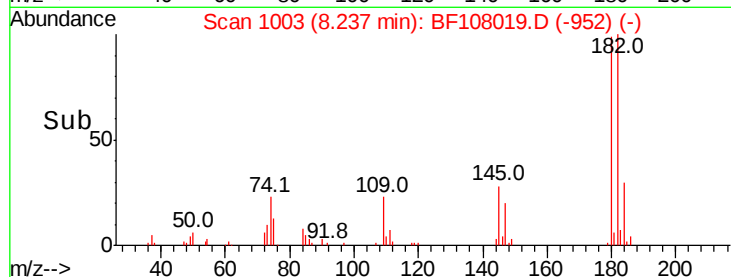
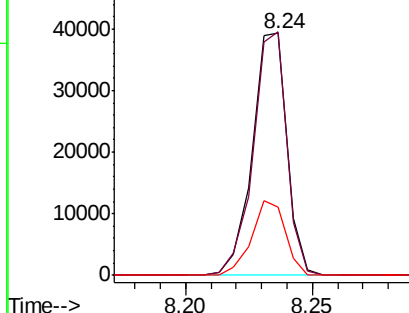


Abundance

Ion 180.00 (179.70 to 180.70): E

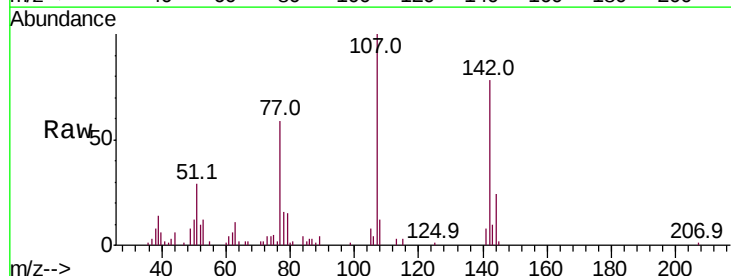
Ion 182.00 (181.70 to 182.70): E

Ion 145.00 (144.70 to 145.70): E



#36
 4-Chloro-3-methylphenol
 Concen: 1.942 ng
 RT: 8.82 min Scan# 1103
 Delta R.T. -0.01 min
 Lab File: BF108019.D
 Acq: 8 Aug 2018 15:05

Tgt Ion	Ratio	Lower	Upper
107	100		
144	24.2	20.5	30.7
142	78.3	62.0	93.0

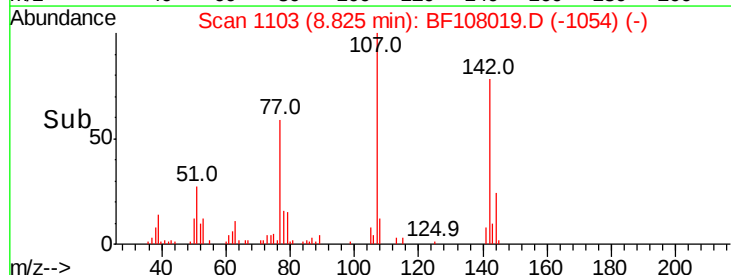
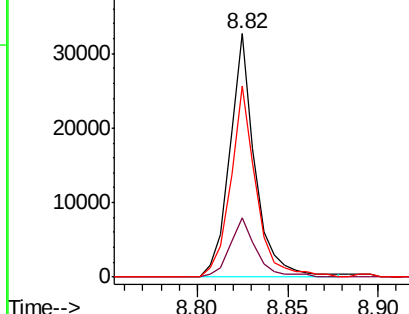


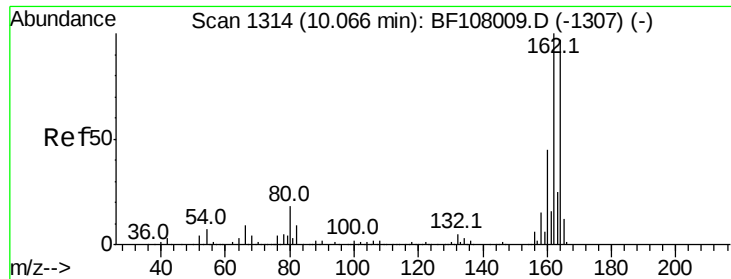
Abundance

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





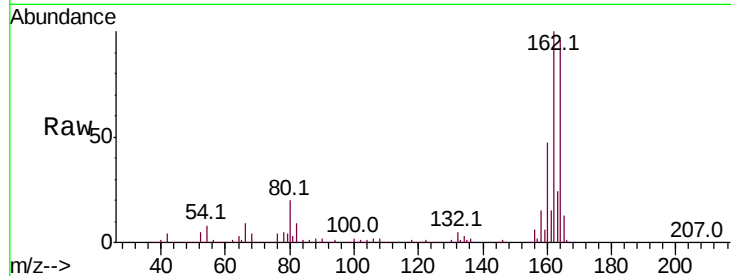
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.06 min Scan# 1313
Delta R.T. -0.01 min
Lab File: BF108019.D
Acq: 8 Aug 2018 15:05

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

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	104.3	86.1	129.1	
160	48.9	38.3	57.5	

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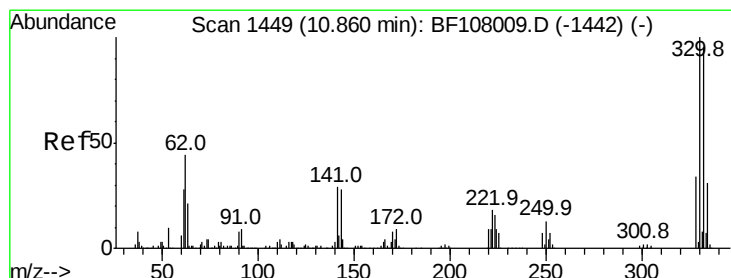
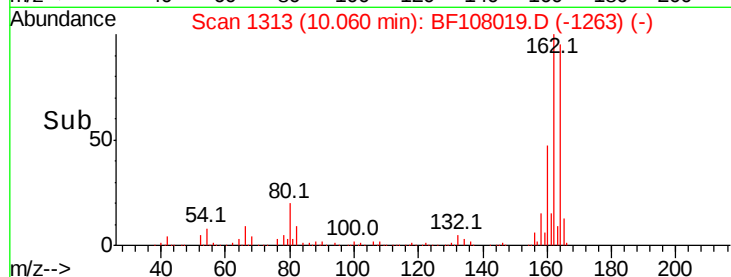
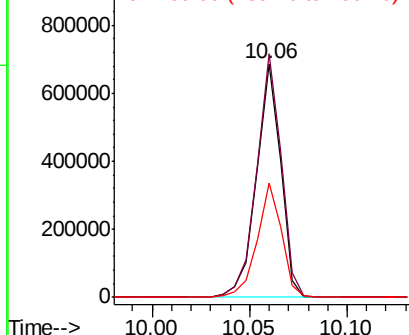


Abundance

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: 140.154 ng
RT: 10.85 min Scan# 1448
Delta R.T. -0.01 min
Lab File: BF108019.D
Acq: 8 Aug 2018 15:05

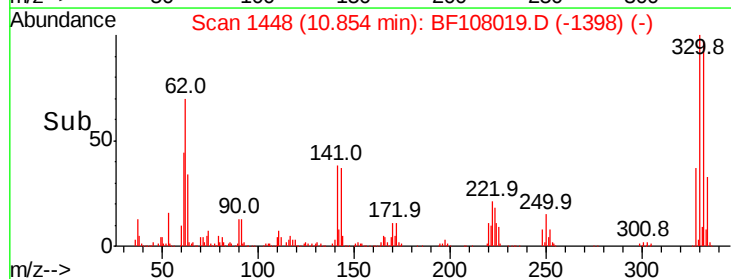
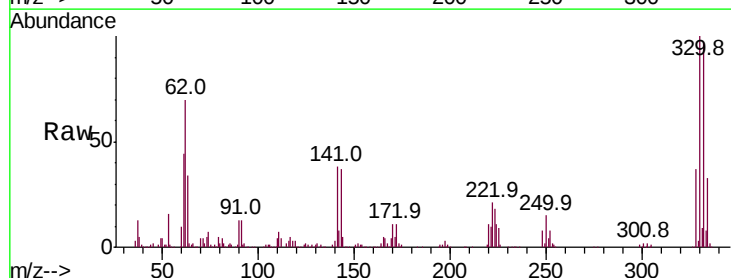
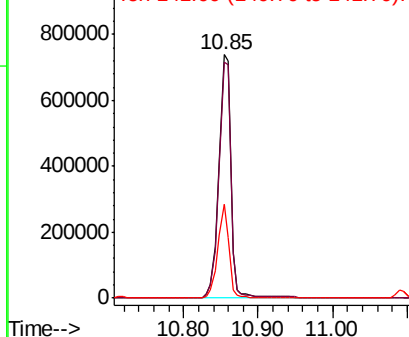
Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.5	77.0	115.6	
141	35.0	29.9	44.9	

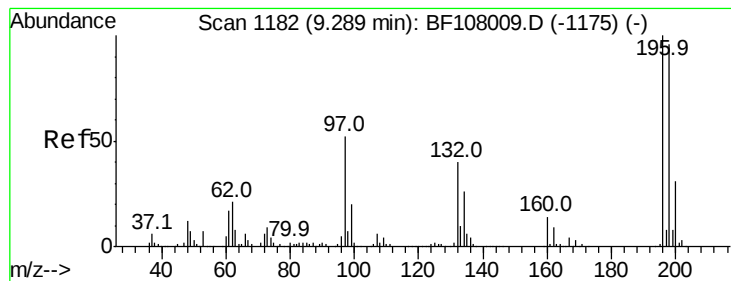
Abundance

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





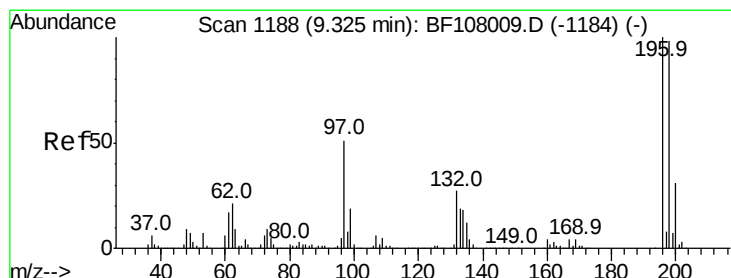
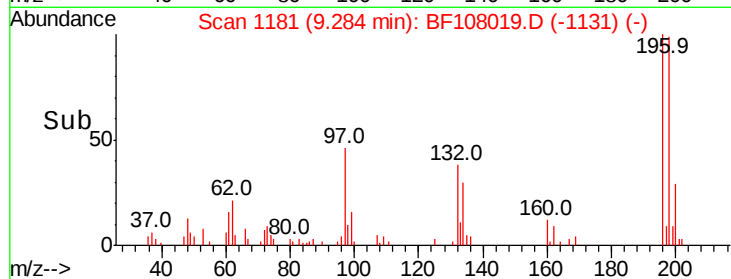
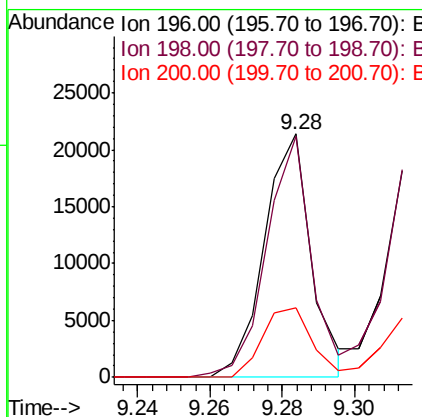
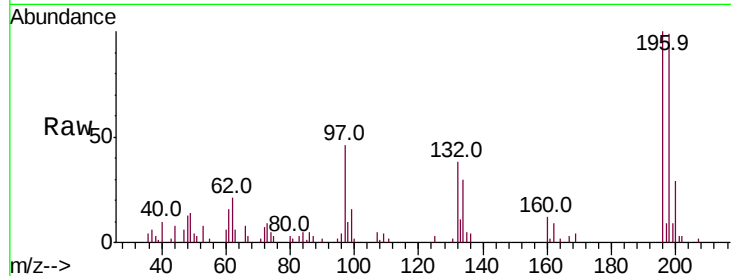
#42
 2,4,6-Trichlorophenol
 Concen: 1.711 ng
 RT: 9.28 min Scan# 1181
 Delta R.T. -0.01 min
 Lab File: BF108019.D
 Acq: 8 Aug 2018 15:05

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

Tot Ion:	196	Resp:	19271
Ion Ratio	Lower	Upper	
196	100		
198	99.2	75.7	113.5
200	28.8	24.5	36.7

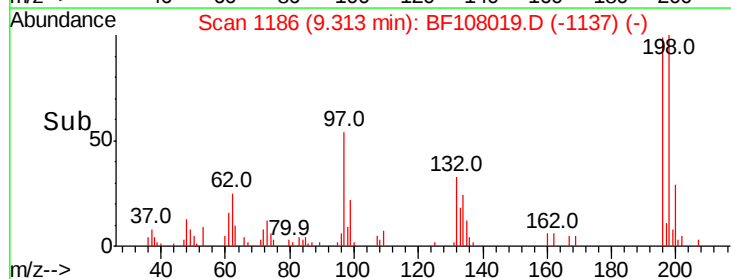
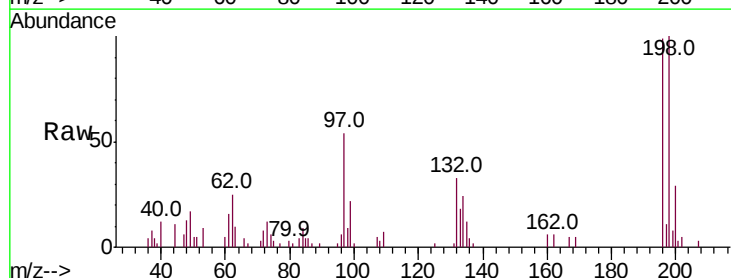
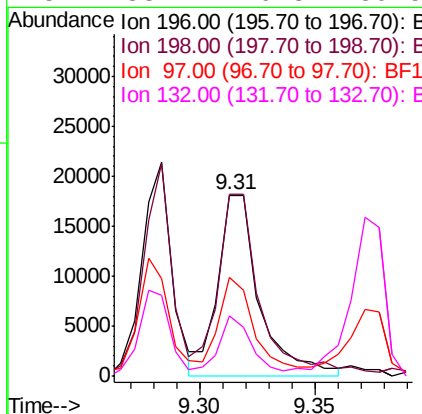
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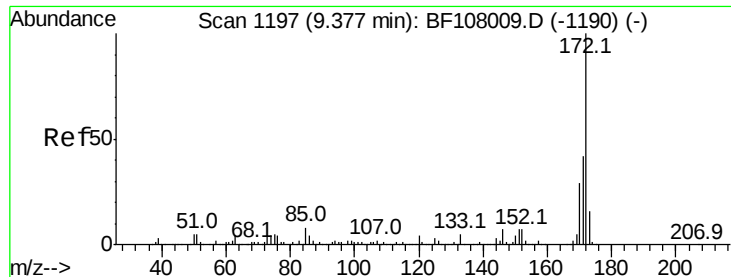
Sohil
 8/9/2018 5:01:13 PM



#43
 2,4,5-Trichlorophenol
 Concen: 1.841 ng
 RT: 9.31 min Scan# 1186
 Delta R.T. -0.01 min
 Lab File: BF108019.D
 Acq: 8 Aug 2018 15:05

Tgt Ion:	196	Resp:	22819
Ion Ratio	Lower	Upper	
196	100		
198	100.8	74.6	112.0
97	54.4	42.9	64.3
132	33.2	26.3	39.5





#44

2-Fluorobiphenyl

Concen: 82.994 ng

RT: 9.38 min Scan# 1197

Delta R.T. 0.00 min

Lab File: BF108019.D

Acq: 8 Aug 2018 15:05

Instrument :

BNA_F

ClientSampleId :

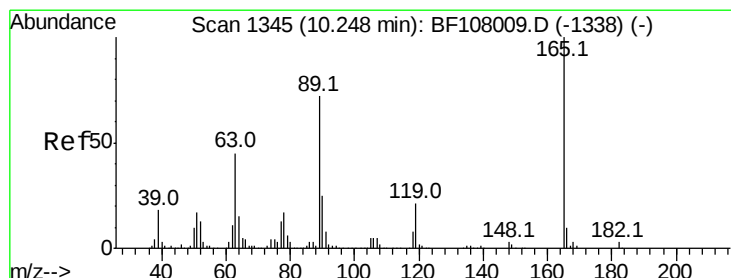
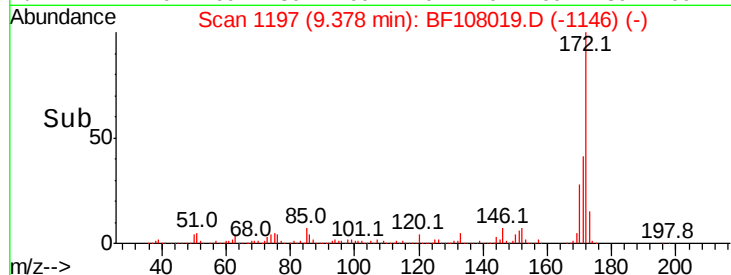
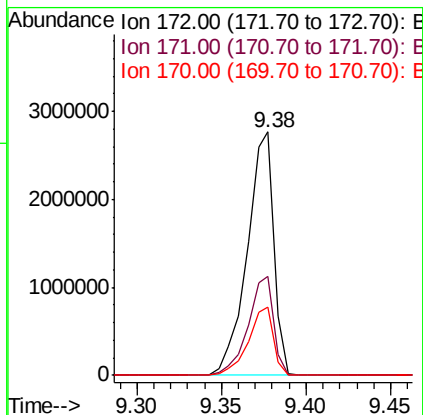
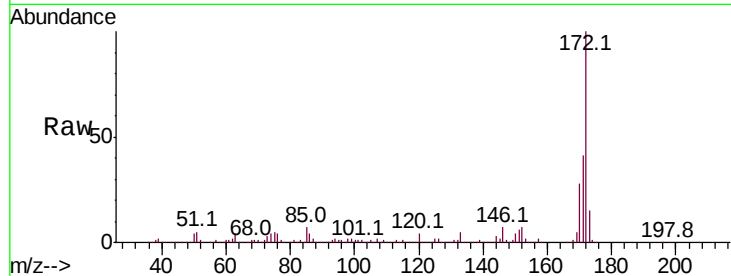
LOD-MDL-SOIL-01-QT3-2018

Tot Ion:172 Resp: 3055041

Ion	Ratio	Lower	Upper
172	100		
171	40.7	29.7	44.5
170	28.0	19.6	29.4

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#56

2,4-Dinitrotoluene

Concen: 1.754 ng

RT: 10.23 min Scan# 1342

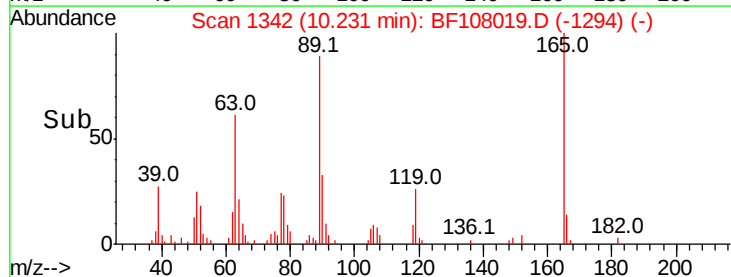
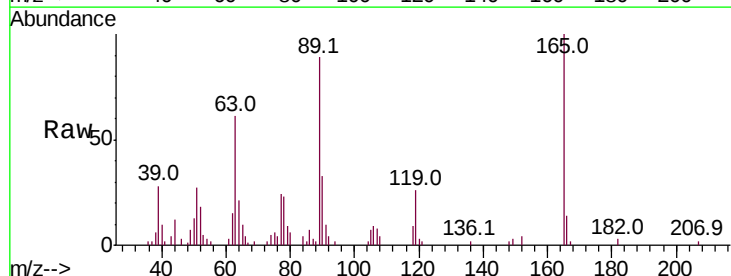
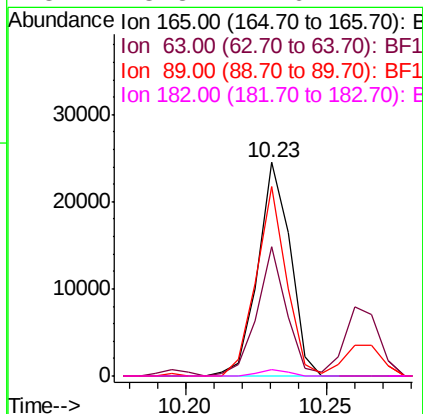
Delta R.T. -0.02 min

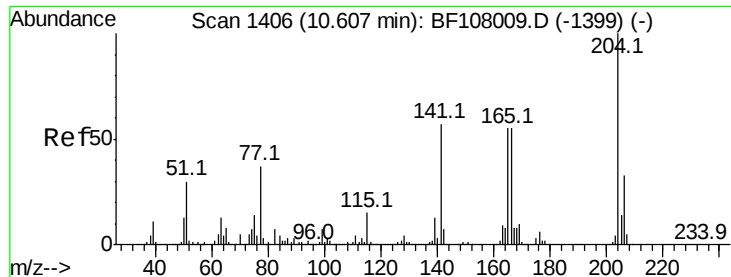
Lab File: BF108019.D

Acq: 8 Aug 2018 15:05

Tgt Ion:165 Resp: 19449

Ion	Ratio	Lower	Upper
165	100		
63	60.8	36.4	54.6#
89	88.5	57.8	86.6#
182	3.3	1.6	2.4#





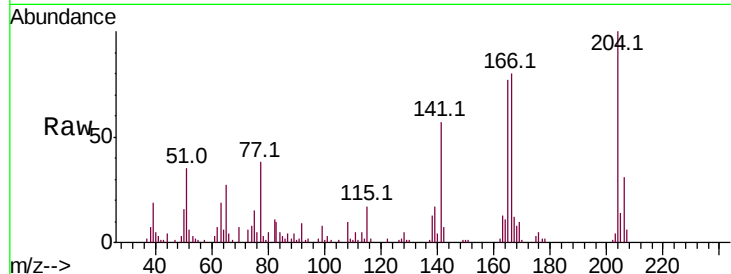
#60
4-Chlorophenyl-phenylether
Concen: 2.411 ng
RT: 10.60 min Scan# 1405
Delta R.T. -0.01 min
Lab File: BF108019.D
Acq: 8 Aug 2018 15:05

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

Tot Ion	Ratio	Lower	Upper
204	100		
206	30.9	26.5	39.7
141	56.8	54.6	81.8

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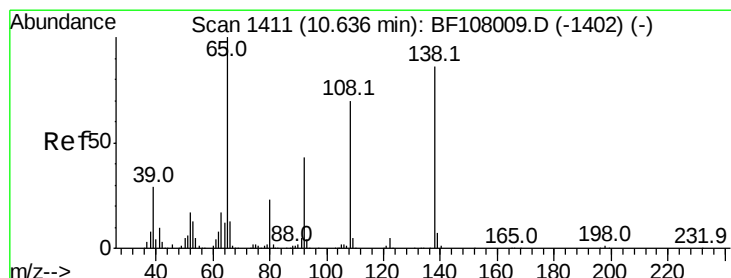
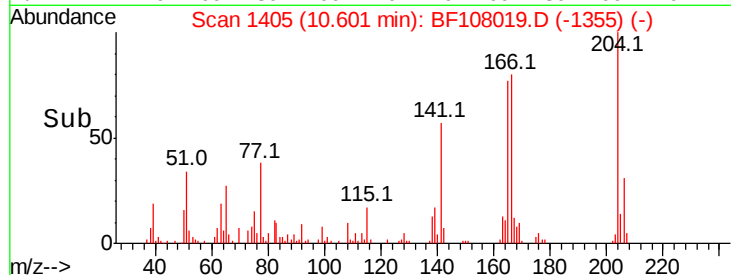
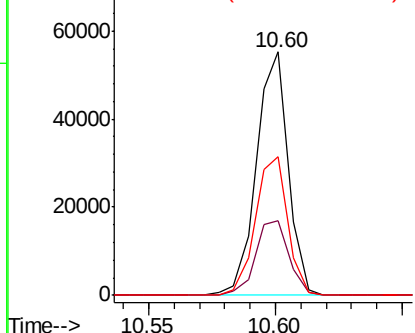


Abundance

Ion 204.00 (203.70 to 204.70): E

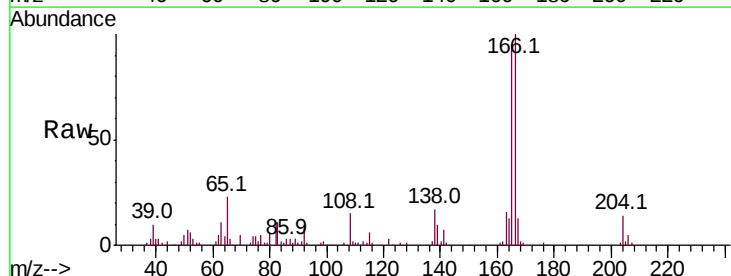
Ion 206.00 (205.70 to 206.70): E

Ion 141.00 (140.70 to 141.70): E



#61
4-Nitroaniline
Concen: 1.954 ng
RT: 10.61 min Scan# 1406
Delta R.T. -0.03 min
Lab File: BF108019.D
Acq: 8 Aug 2018 15:05

Tgt Ion	Ratio	Lower	Upper
138	100		
92	59.6	30.2	70.2
108	88.8	52.5	92.5

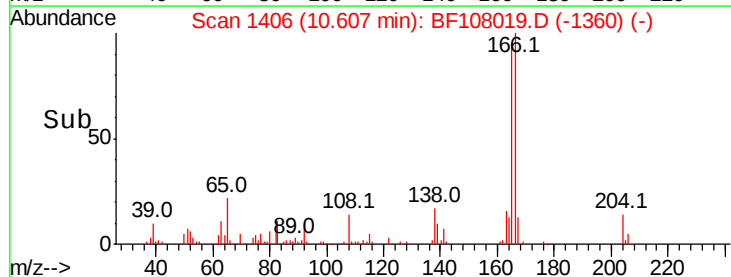
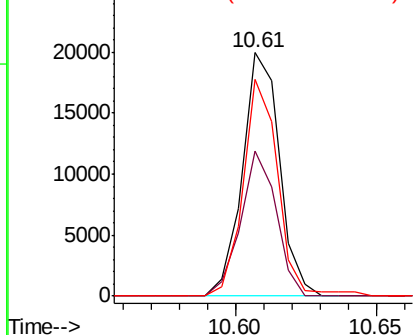


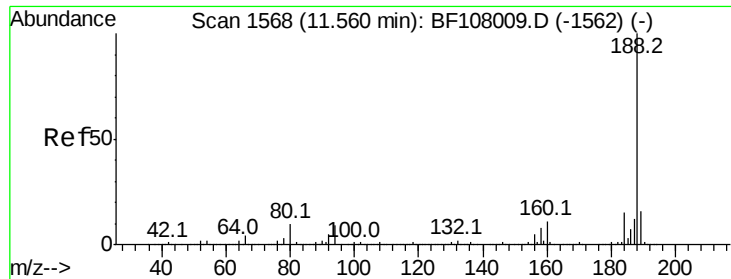
Abundance

Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BF1

Ion 108.00 (107.70 to 108.70): E





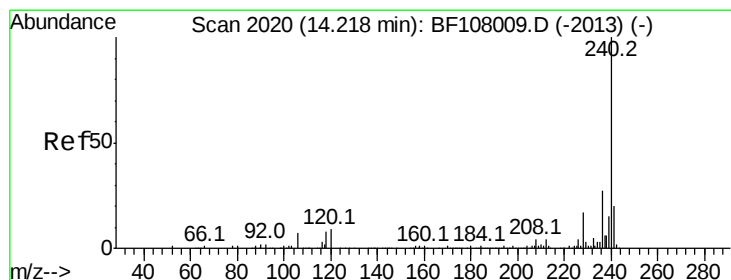
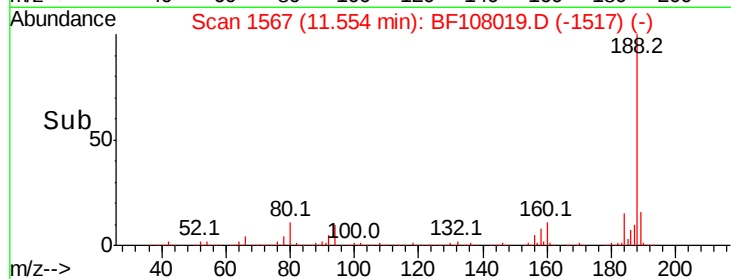
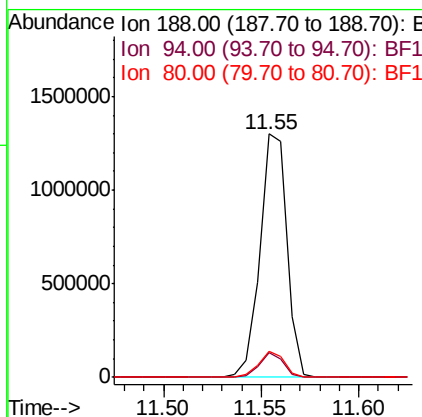
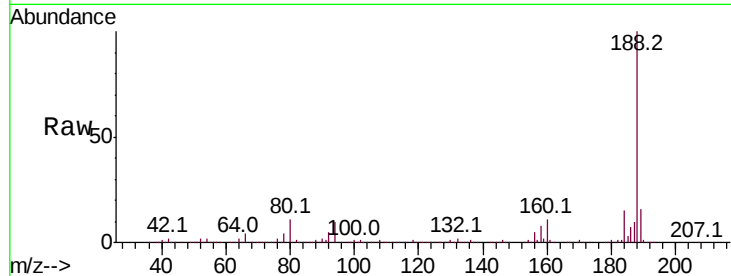
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.55 min Scan# 1567
Delta R.T. -0.01 min
Lab File: BF108019.D
Acq: 8 Aug 2018 15:05

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

Tot Ion	Ratio	Lower	Upper
188	100		
94	10.0	8.5	12.7
80	10.9	9.2	13.8

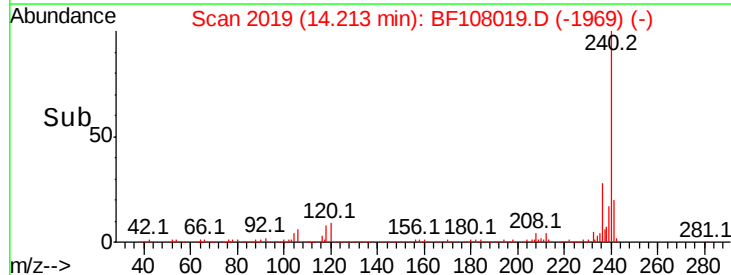
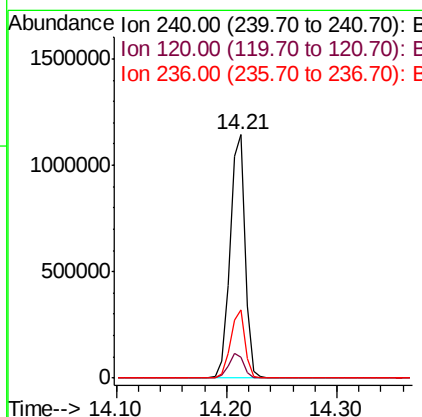
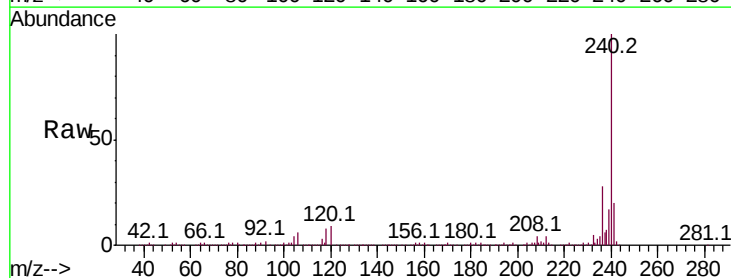
Manual Integrations
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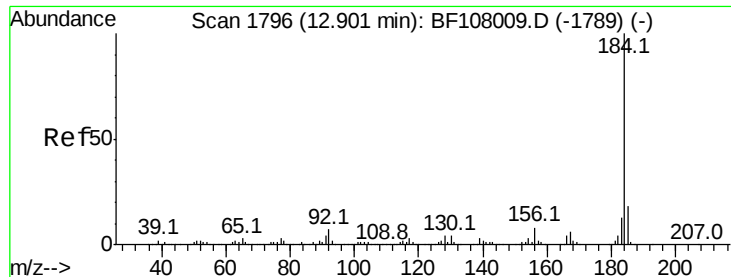
Sohil
8/9/2018 5:01:13 PM



#75
Chrysene-d12
Concen: 20.000 ng
RT: 14.21 min Scan# 2019
Delta R.T. -0.01 min
Lab File: BF108019.D
Acq: 8 Aug 2018 15:05

Tgt Ion	Ratio	Lower	Upper
240	100		
120	8.7	9.5	14.3#
236	27.8	20.7	31.1





#76

Benzidine

Concen: 0.512 ng

RT: 12.90 min Scan# 1795

Delta R.T. -0.01 min

Lab File: BF108019.D

Acq: 8 Aug 2018 15:05

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion:184 Resp: 20869

Ion Ratio Lower Upper

184 100

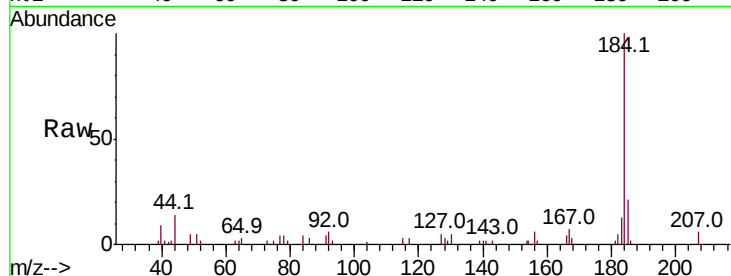
185 20.6 12.6 18.8#

183 12.9 9.3 13.9

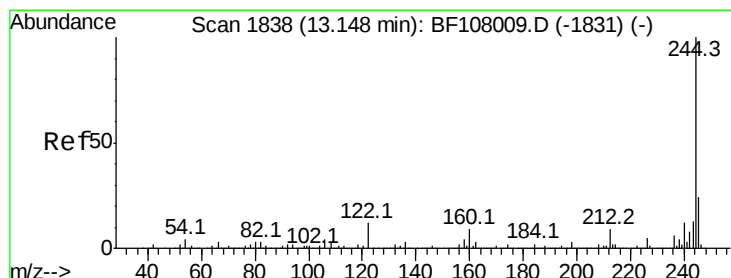
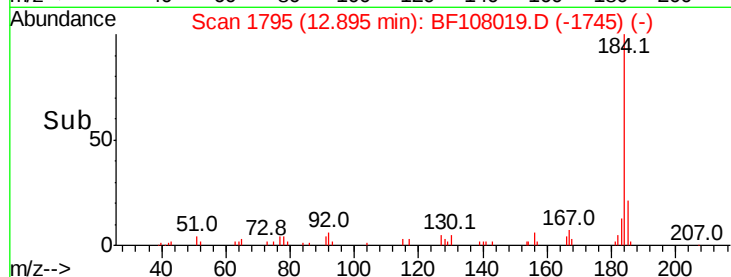
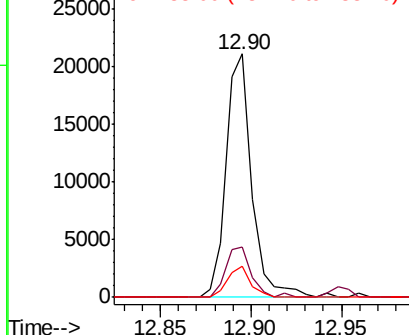
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Abundance Ion 184.00 (183.70 to 184.70): E
Ion 185.00 (184.70 to 185.70): E
Ion 183.00 (182.70 to 183.70): E



#78

Terphenyl-d14

Concen: 85.586 ng

RT: 13.15 min Scan# 1839

Delta R.T. 0.01 min

Lab File: BF108019.D

Acq: 8 Aug 2018 15:05

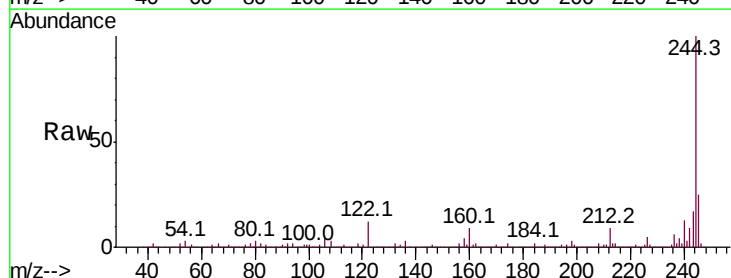
Tgt Ion:244 Resp: 3671178

Ion Ratio Lower Upper

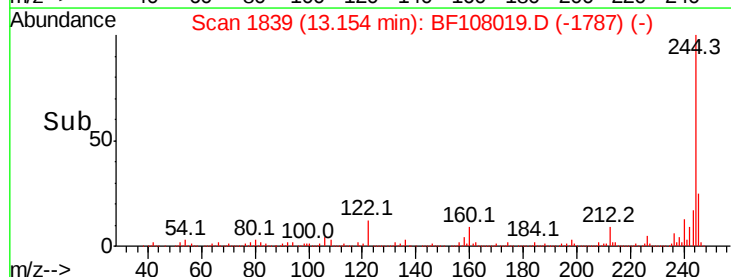
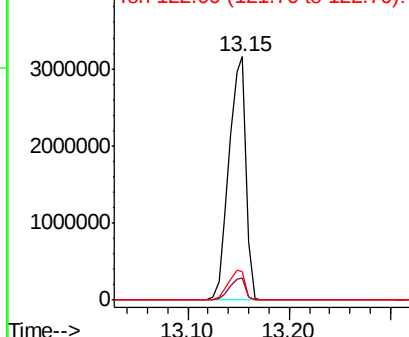
244 100

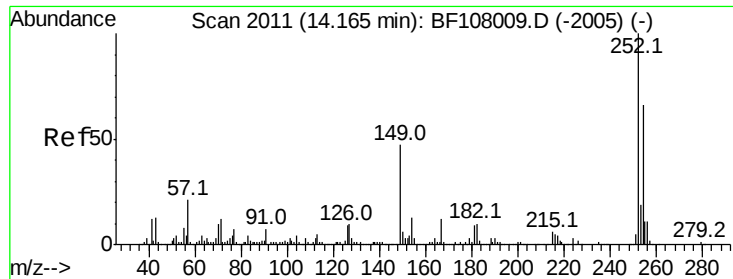
212 9.1 5.4 8.0#

122 11.5 11.0 16.4



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





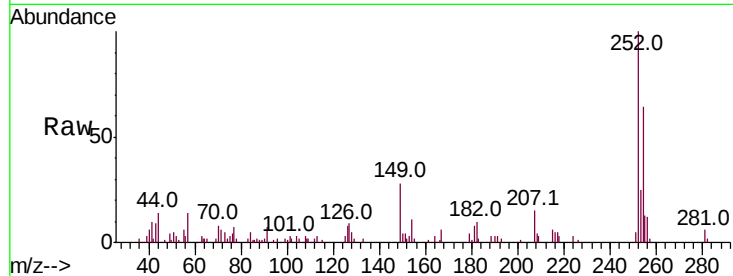
#81
 3,3'-Dichlorobenzidine
 Concen: 1.083 ng
 RT: 14.16 min Scan# 2010
 Delta R.T. -0.01 min
 Lab File: BF108019.D
 Acq: 8 Aug 2018 15:05

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

Tot Ion	Ratio	Lower	Upper
252	100		
254	64.3	50.4	75.6
126	8.0	11.3	16.9

Manual Integrations
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Sohil
 8/9/2018 5:01:13 PM

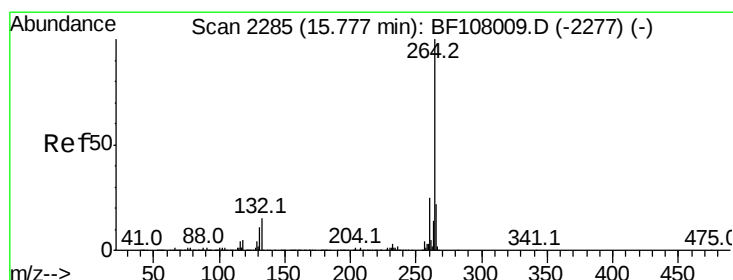
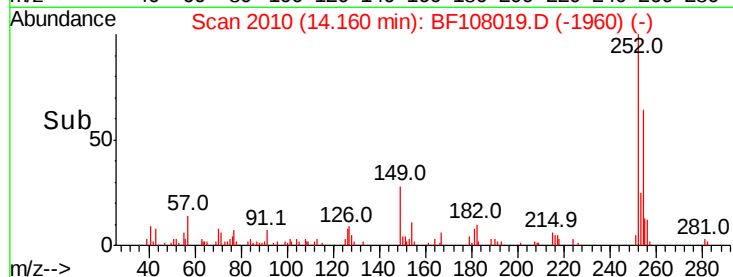
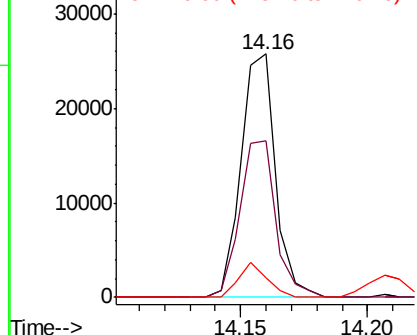


Abundance

Ion 252.00 (251.70 to 252.70): E

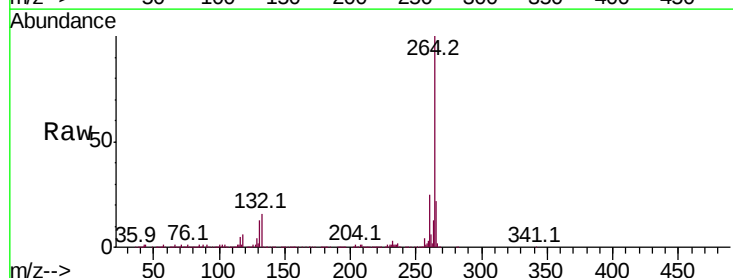
Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.77 min Scan# 2284
 Delta R.T. -0.01 min
 Lab File: BF108019.D
 Acq: 8 Aug 2018 15:05

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.2	28.8
265	21.6	17.5	26.3



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

