

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080818\
 Data File : BF108018.D
 Acq On : 8 Aug 2018 14:38
 Operator : JU/SJ
 Sample : J3762-01
 Misc : LOD 1 PPM
 ALS Vial : 5 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

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 8/9/2018 5:01:11 PM

Quant Time: Aug 09 13:42:06 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	276924	20.00	ng	0.00
21) Naphthalene-d8	8.30	136	1104504	20.00	ng	0.00
38) Acenaphthene-d10	10.06	164	603532	20.00	ng	0.00
63) Phenanthrene-d10	11.55	188	1248817	20.00	ng	0.00
75) Chrysene-d12	14.21	240	1089503	20.00	ng	0.00
86) Perylene-d12	15.77	264	931303	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.64	112	1924832	125.84	ng	0.00
7) Phenol-d6	6.63	99	2572364	126.55	ng	0.00
23) Nitrobenzene-d5	7.58	82	1703071	86.04	ng	0.00
41) 2,4,6-Tribromophenol	10.86	330	824776	137.00	ng	0.00
44) 2-Fluorobiphenyl	9.38	172	3105885	82.62	ng	0.00
78) Terphenyl-d14	13.15	244	3690352	86.12	ng	0.00

Target Compounds

						Qvalue
6) Aniline	6.68	93	14939	0.540	ng	96
8) 2-Chlorophenol	6.80	128	17917	1.040	ng	# 72
9) Benzaldehyde	6.57	77	14838	0.942	ng	86
10) Phenol	6.64	94	22186	1.055	ng	# 1
11) bis(2-Chloroethyl)ether	6.74	93	18105	1.065	ng	97
12) 1,3-Dichlorobenzene	6.95	146	21231	1.066	ng	94
13) 1,4-Dichlorobenzene	7.03	146	21836	1.091	ng	98
14) 1,2-Dichlorobenzene	7.18	146	18915	1.016	ng	88
15) Benzyl Alcohol	7.17	79	31503	1.841	ng	# 40
16) 2,2'-oxybis(1-Chloropropan	7.28	45	38039	1.086	ng	96
18) Hexachloroethane	7.53	117	6758	0.948	ng	# 89
24) Nitrobenzene	7.59	77	26647	1.331	ng	92
31) Naphthalene	8.32	128	57334	1.141	ng	99
34) Hexachlorobutadiene	8.43	225	11458	1.065	ng	93
37) 2-Methylnaphthalene	9.01	142	39121	1.101	ng	97
39) 1,2,4,5-Tetrachlorobenzene	9.17	216	19714	1.064	ng	# 96
45) 1,1'-Biphenyl	9.47	154	56197	1.263	ng	93
46) 2-Chloronaphthalene	9.50	162	38094	1.083	ng	96
47) 2-Nitroaniline	9.59	65	8734m	0.768	ng	
48) Acenaphthylene	9.92	152	61437	1.105	ng	98
49) Dimethylphthalate	9.77	163	46654	1.110	ng	# 95
50) 2,6-Dinitrotoluene	9.83	165	7052	0.802	ng	# 73
51) Acenaphthene	10.09	154	39561	1.162	ng	99
54) Dibenzofuran	10.27	168	57076	1.157	ng	99
57) Fluorene	10.61	166	45438	1.163	ng	97
58) 2,3,4,6-Tetrachlorophenol	10.38	232	6898	0.652	ng	# 84
59) Diethylphthalate	10.47	149	43853	1.077	ng	98
62) Azobenzene	10.76	77	44653	1.062	ng	95
65) n-Nitrosodiphenylamine	10.71	169	39824	1.079	ng	91
66) 4-Bromophenyl-phenylether	11.09	248	13925	1.026	ng	88
67) Hexachlorobenzene	11.16	284	15230	1.067	ng	# 86
68) Atrazine	11.23	200	11161	0.902	ng	93
70) Phenanthrene	11.58	178	69280	1.176	ng	97
71) Anthracene	11.63	178	70953	1.175	ng	98

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Manual Integrations
 APPROVED

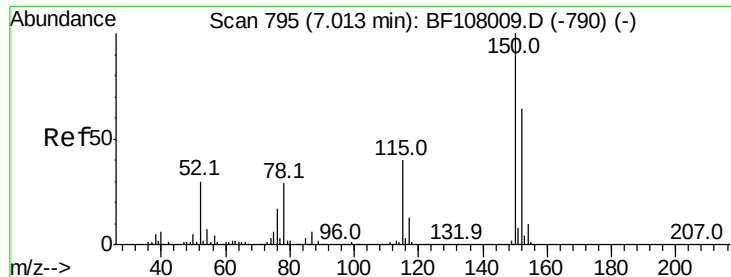
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 8/9/2018 5:01:11 PM

Quant Time: Aug 09 13:42:06 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)

72) Carbazole	11.78	167	59429	1.108	nq	97
73) Di-n-butylphthalate	12.11	149	59663	0.982	nq	100
74) Fluoranthene	12.77	202	73399	1.142	nq	95
77) Pyrene	13.01	202	74346	1.078	nq	99
79) Butylbenzylphthalate	13.62	149	19630	0.717	nq	96
80) Benzo(a)anthracene	14.20	228	70860	1.133	nq	97
82) Chrysene	14.24	228	65019	1.134	nq	97
83) Bis(2-ethylhexyl)phthalate	14.17	149	28878	0.779	nq #	97
84) Di-n-octyl phthalate	14.80	149	37093	0.656	nq #	81
85) Indeno(1,2,3-cd)pyrene	17.37	276	40981	0.825	nq	93
87) Benzo(b)fluoranthene	15.29	252	54474	0.979	nq	95
88) Benzo(k)fluoranthene	15.32	252	50928	0.996	nq	99
89) Benzo(a)pyrene	15.69	252	45710	0.917	nq	99
90) Dibenzo(a,h)anthracene	17.39	278	34772	0.843	nq #	95
91) Benzo(a,h,i)perylene	17.87	276	33873	0.834	nq	94

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



#1

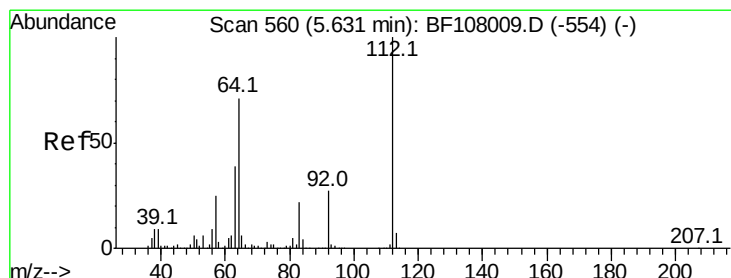
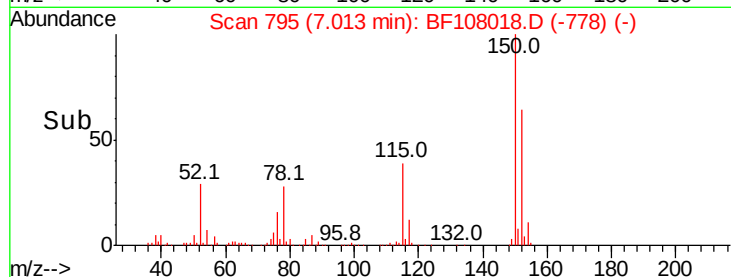
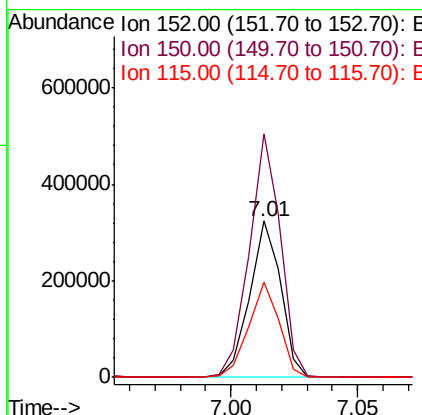
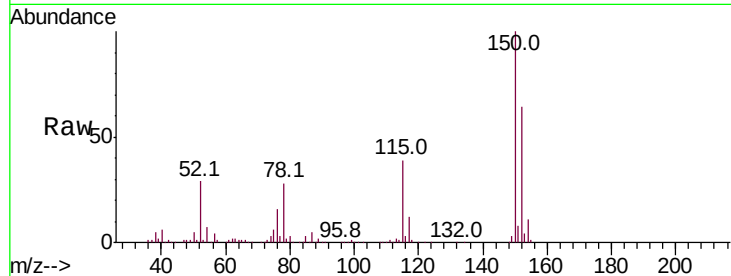
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.01 min Scan# 795
Delta R.T. -0.00 min
Lab File: BF108018.D
Acq: 8 Aug 2018 14:38

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

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.9	124.6	186.8
115	61.2	50.1	75.1

Manual Integrations
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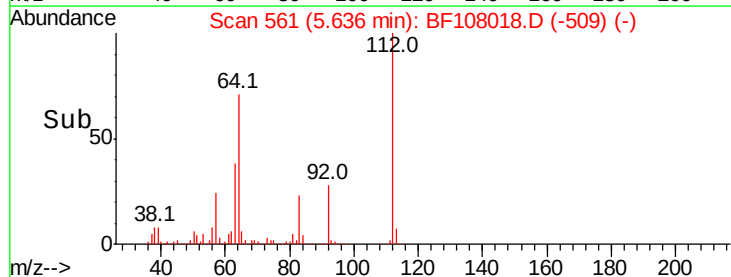
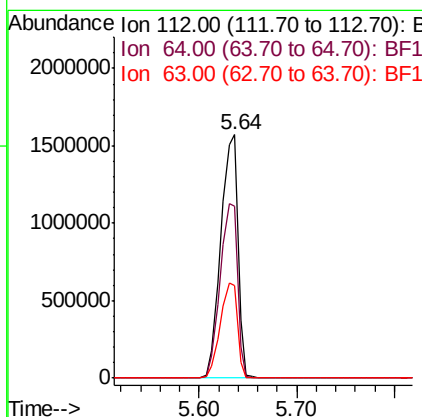
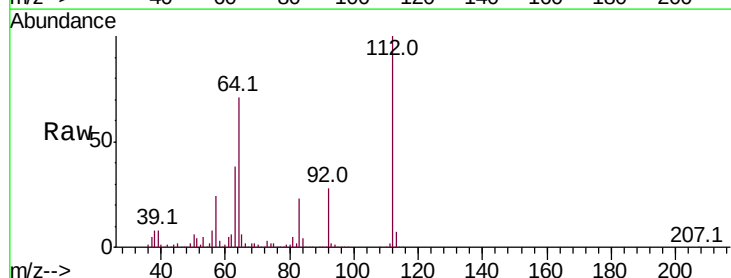
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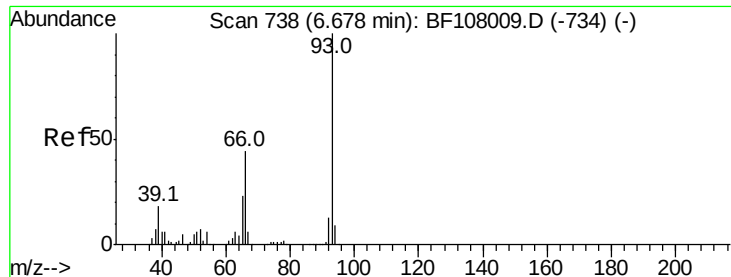


#5

2-Fluorophenol
Concen: 125.840 ng
RT: 5.64 min Scan# 561
Delta R.T. 0.01 min
Lab File: BF108018.D
Acq: 8 Aug 2018 14:38

Tgt Ion	Ratio	Lower	Upper
112	100		
64	70.7	47.9	71.9
63	38.3	23.7	35.5





#6

Aniline

Concen: 0.540 ng

RT: 6.68 min Scan# 738

Delta R.T. -0.00 min

Lab File: BF108018.D

Acq: 8 Aug 2018 14:38

Instrument :

BNA_F

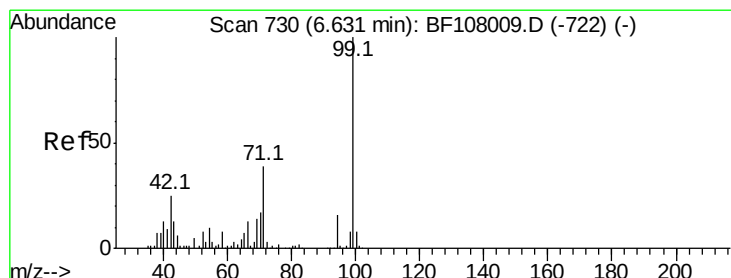
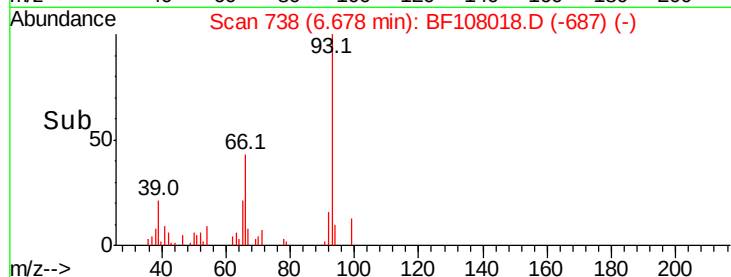
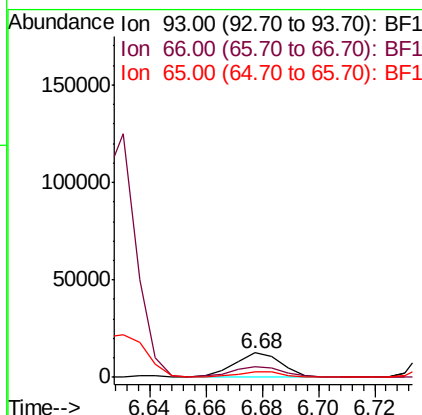
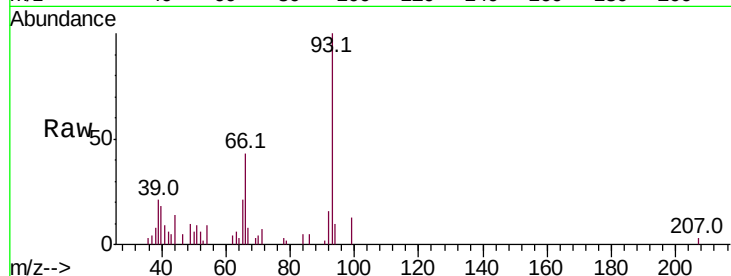
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion:	93	Resp:	14939
Ion	Ratio	Lower	Upper
93	100		
66	43.1	32.2	48.2
65	21.4	16.4	24.6

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#7

Phenol-d6

Concen: 126.555 ng

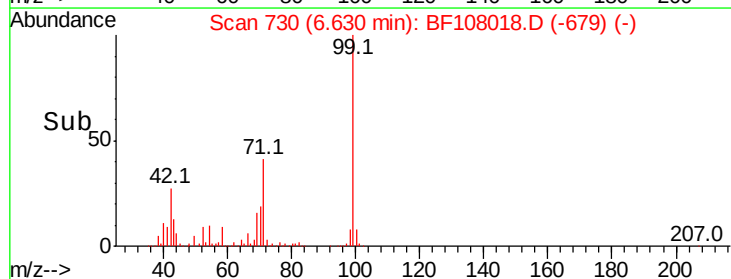
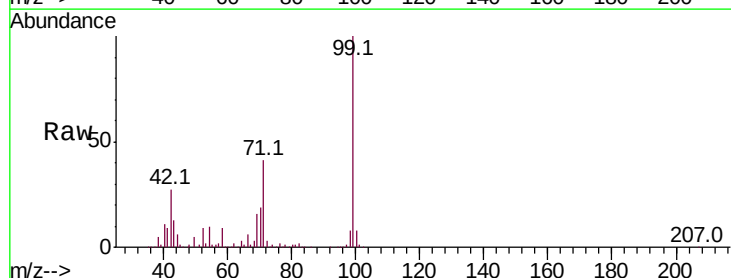
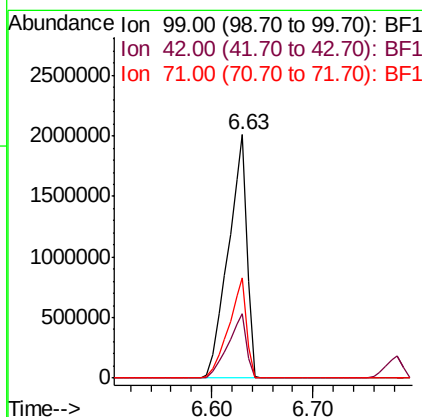
RT: 6.63 min Scan# 730

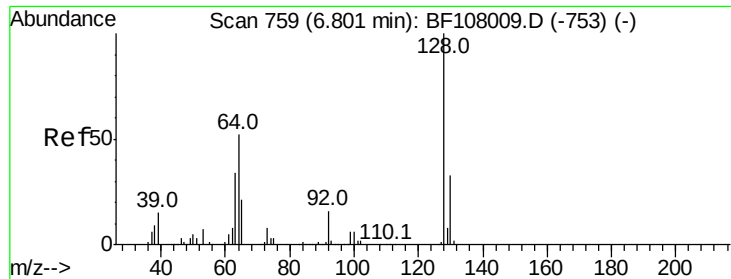
Delta R.T. -0.00 min

Lab File: BF108018.D

Acq: 8 Aug 2018 14:38

Tgt Ion:	99	Resp:	2572364
Ion	Ratio	Lower	Upper
99	100		
42	26.7	14.5	21.7#
71	41.0	25.4	38.0#





#8

2-Chlorophenol

Concen: 1.040 ng

RT: 6.80 min Scan# 758

Delta R.T. -0.01 min

Lab File: BF108018.D

Acq: 8 Aug 2018 14:38

Instrument :

BNA_F

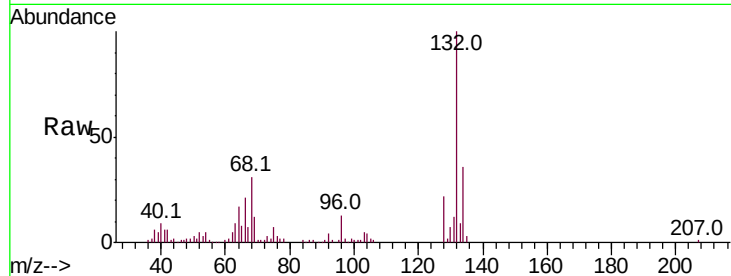
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

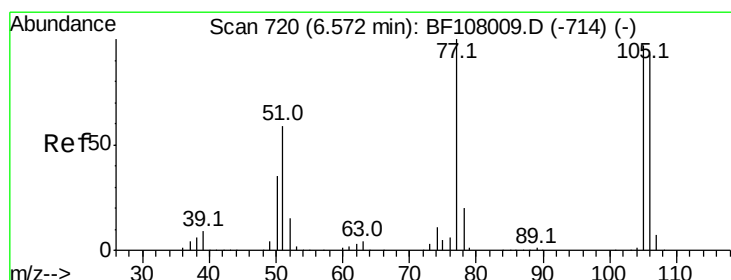
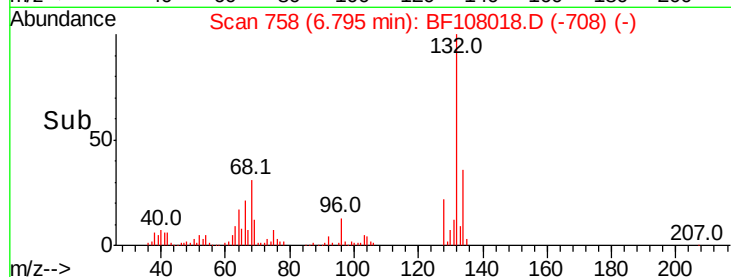
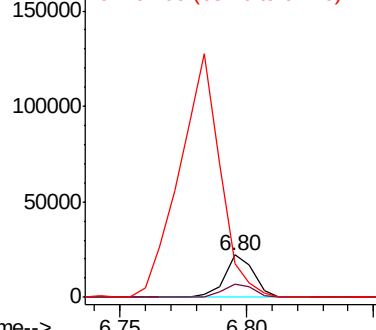
Tot Ion:	128	Resp:	17917
Ion Ratio	Lower	Upper	
128	100		
130	30.2	13.0	53.0
64	79.5	29.4	69.4#

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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): BF1



#9

Benzaldehyde

Concen: 0.942 ng

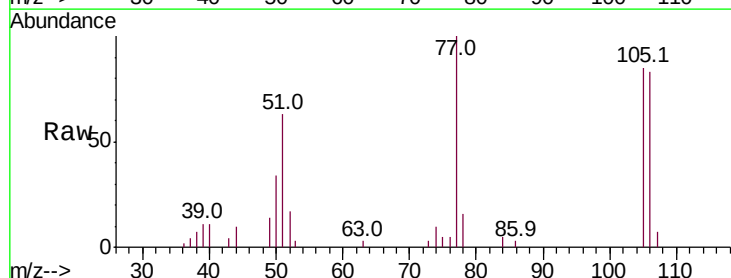
RT: 6.57 min Scan# 719

Delta R.T. -0.01 min

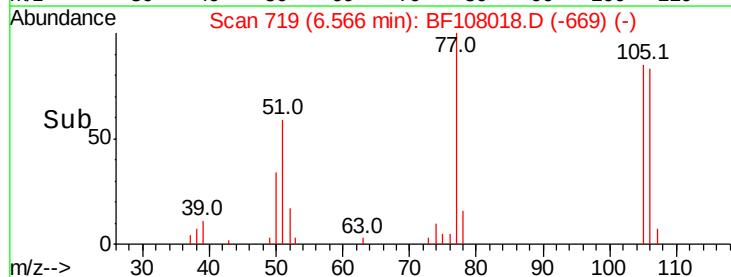
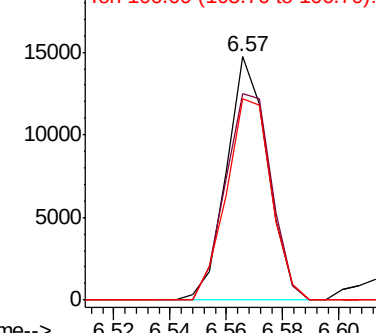
Lab File: BF108018.D

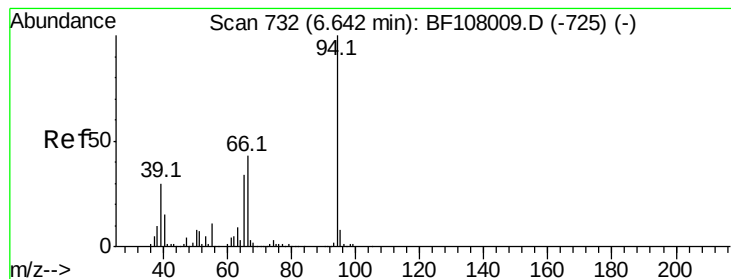
Acq: 8 Aug 2018 14:38

Tgt Ion:	77	Resp:	14838
Ion Ratio	Lower	Upper	
77	100		
105	84.6	81.1	121.1
106	82.6	74.5	114.5



Abundance Ion 77.00 (76.70 to 77.70): BF1
Ion 105.00 (104.70 to 105.70): E
Ion 106.00 (105.70 to 106.70): E





#10

Phenol

Concen: 1.055 ng

RT: 6.64 min Scan# 731

Delta R.T. -0.01 min

Lab File: BF108018.D

Acq: 8 Aug 2018 14:38

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 94 Resp: 22186

Ion Ratio Lower Upper

94 100

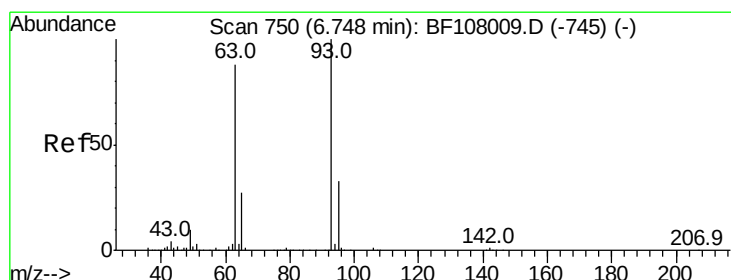
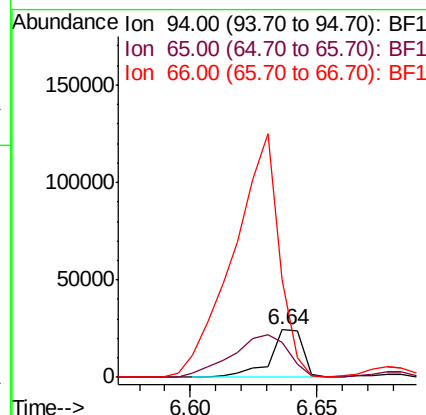
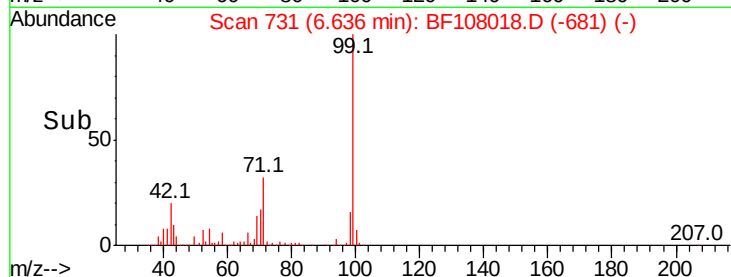
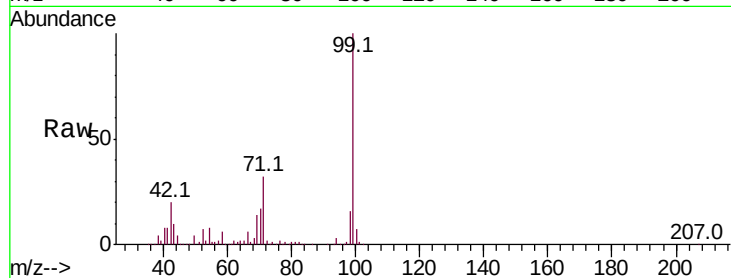
65 74.3 7.9 47.9#

66 204.0 16.2 56.2#

Manual Integrations
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#11

bis(2-Chloroethyl)ether

Concen: 1.065 ng

RT: 6.74 min Scan# 749

Delta R.T. -0.01 min

Lab File: BF108018.D

Acq: 8 Aug 2018 14:38

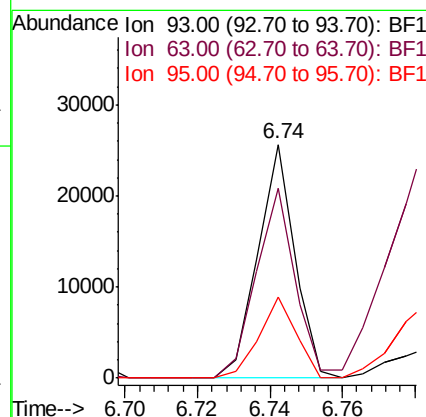
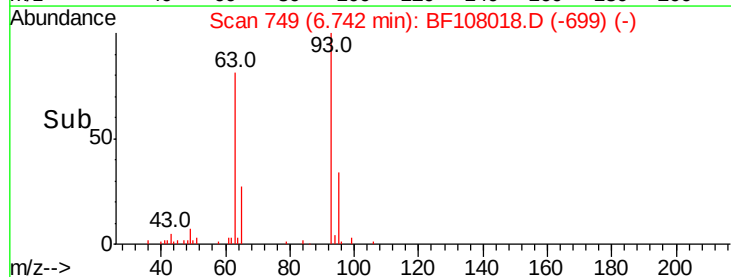
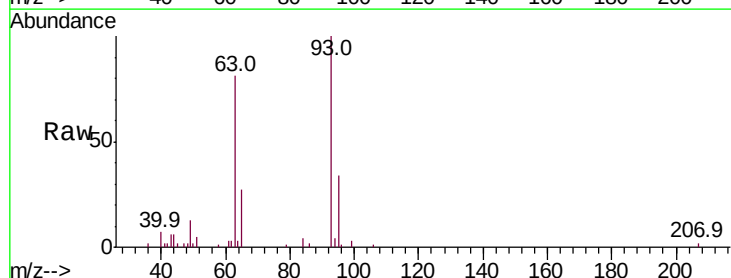
Tgt Ion: 93 Resp: 18105

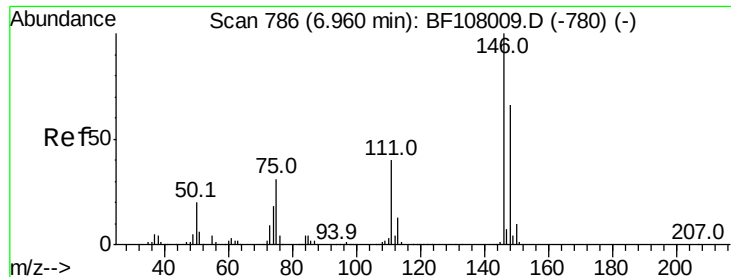
Ion Ratio Lower Upper

93 100

63 81.0 58.6 98.6

95 34.5 11.8 51.8





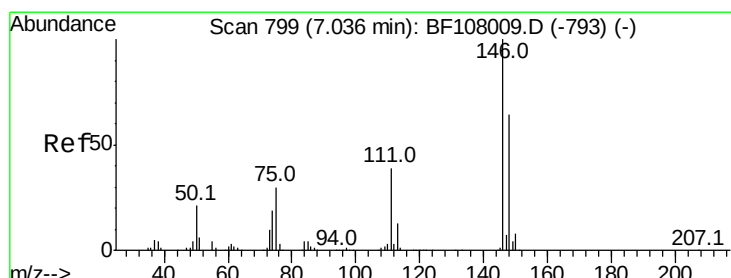
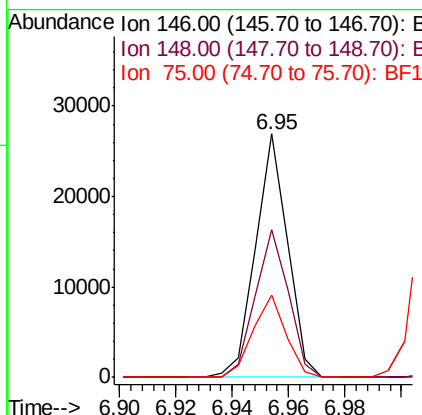
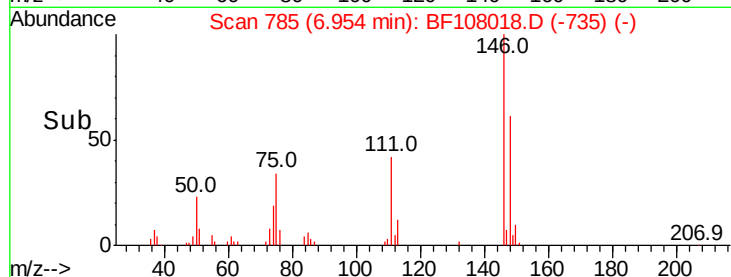
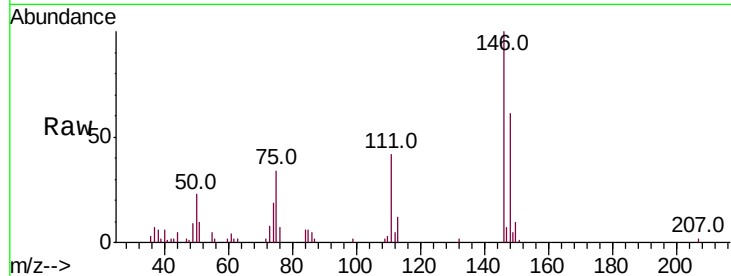
#12
1,3-Dichlorobenzene
Concen: 1.066 ng
RT: 6.95 min Scan# 785
Delta R.T. -0.01 min
Lab File: BF108018.D
Acq: 8 Aug 2018 14:38

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

Tot Ion:	146	Resp:	21231
Ion Ratio	Lower	Upper	
146	100		
148	60.6	51.8	77.8
75	33.6	24.2	36.4

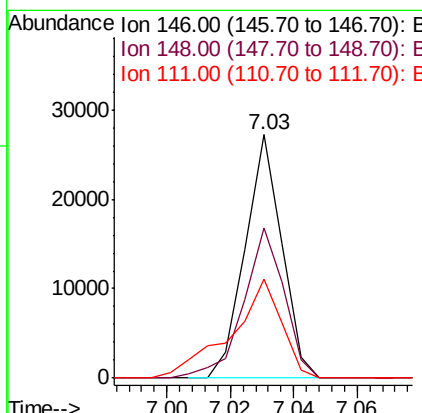
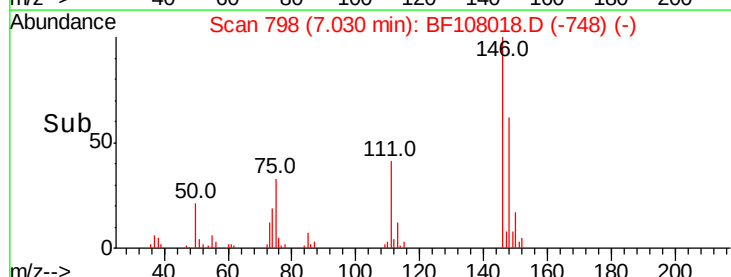
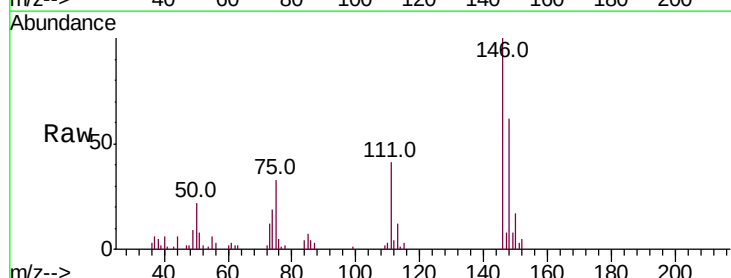
Manual Integrations
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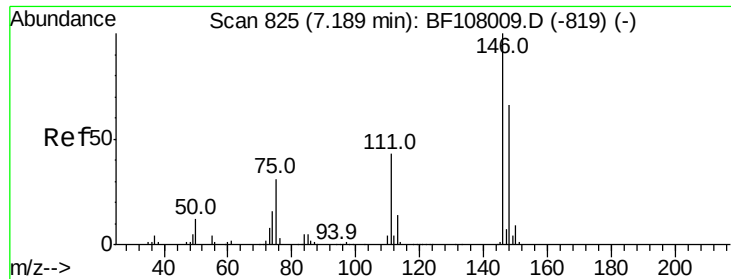
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#13
1,4-Dichlorobenzene
Concen: 1.091 ng
RT: 7.03 min Scan# 798
Delta R.T. -0.01 min
Lab File: BF108018.D
Acq: 8 Aug 2018 14:38

Tgt Ion:	146	Resp:	21836
Ion Ratio	Lower	Upper	
146	100		
148	61.9	50.8	76.2
111	40.8	34.2	51.2





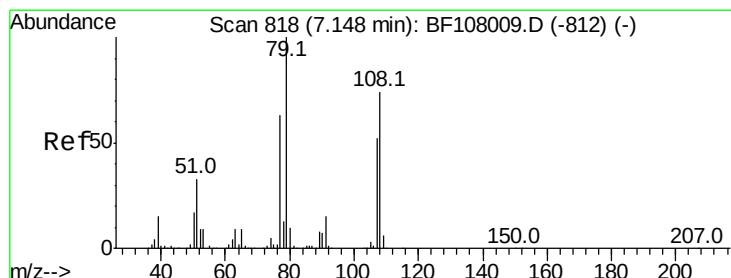
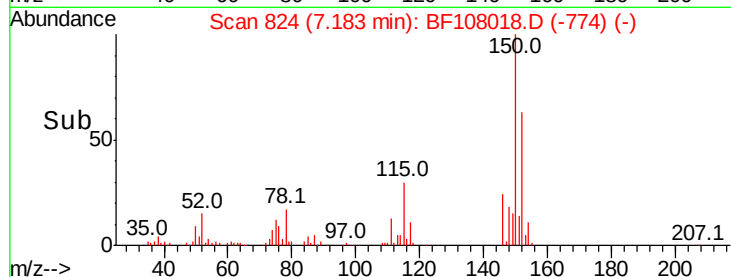
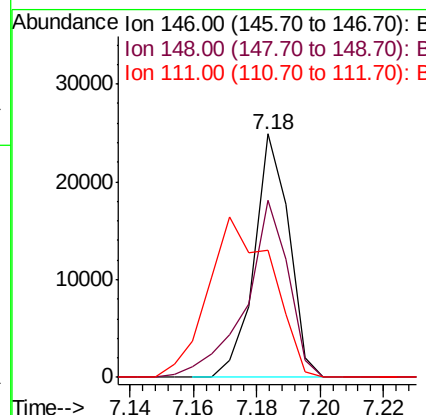
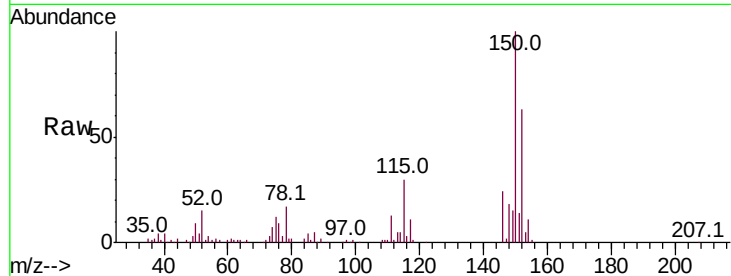
#14
1,2-Dichlorobenzene
Concen: 1.016 ng
RT: 7.18 min Scan# 824
Delta R.T. -0.01 min
Lab File: BF108018.D
Acq: 8 Aug 2018 14:38

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

Tot Ion	Ratio	Lower	Upper
146	100		
148	72.6	50.6	75.8
111	52.5	36.0	54.0

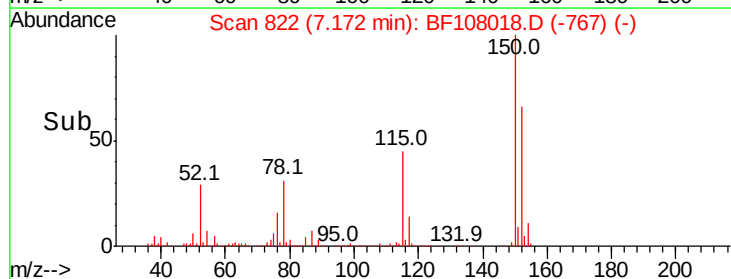
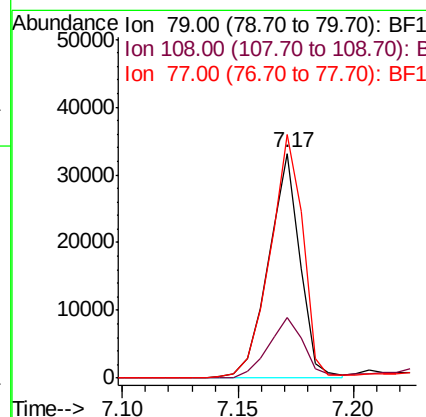
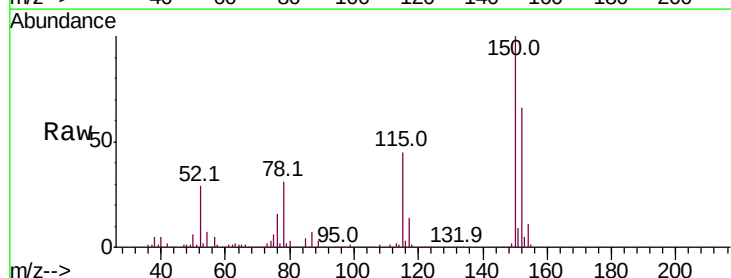
Manual Integrations
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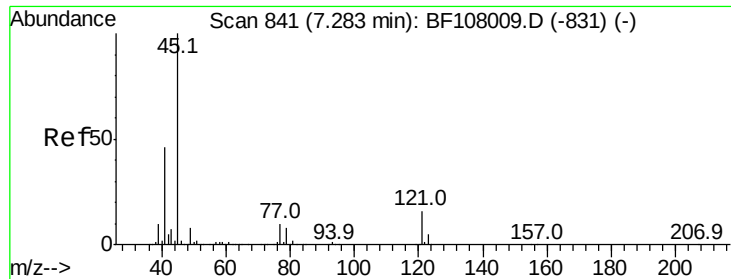
Sohil
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#15
Benzyl Alcohol
Concen: 1.841 ng
RT: 7.17 min Scan# 822
Delta R.T. 0.02 min
Lab File: BF108018.D
Acq: 8 Aug 2018 14:38

Tgt Ion	Ratio	Lower	Upper
79	100		
108	26.9	65.1	97.7#
77	108.2	50.6	75.8#





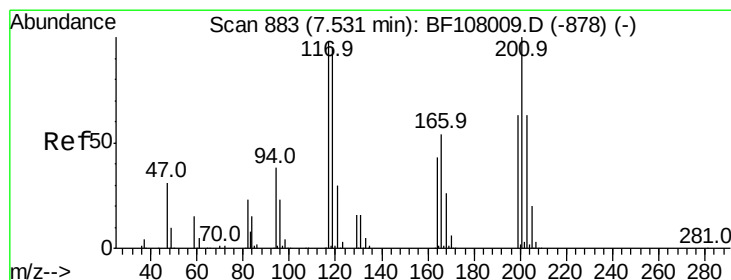
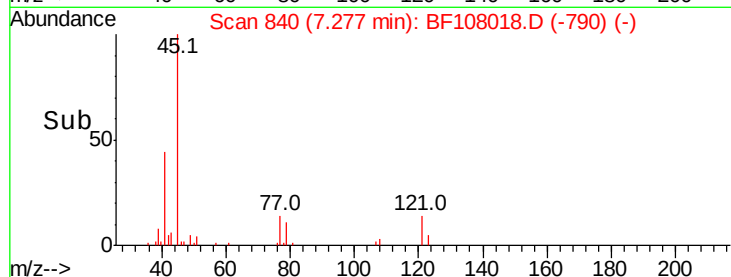
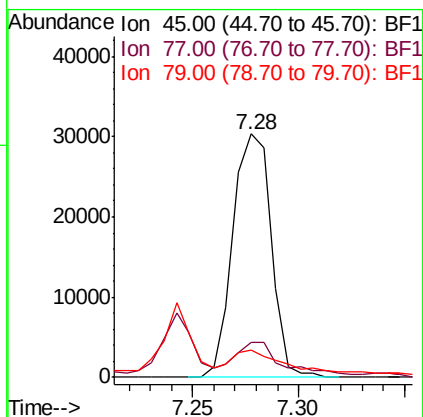
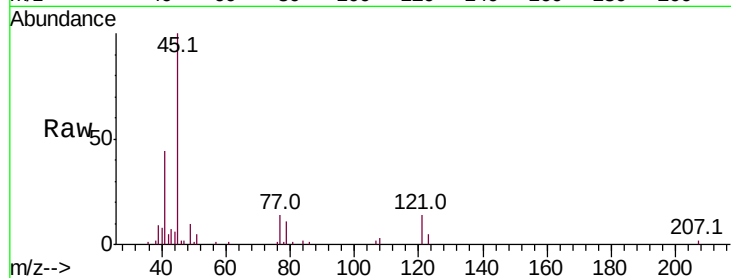
#16
2,2'-oxvbis(1-Chloropropane)
Concen: 1.086 ng
RT: 7.28 min Scan# 840
Delta R.T. -0.01 min
Lab File: BF108018.D
Acq: 8 Aug 2018 14:38

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

Tot Ion	Ratio	Lower	Upper
45	100		
77	14.5	0.0	32.9
79	11.1	0.0	29.6

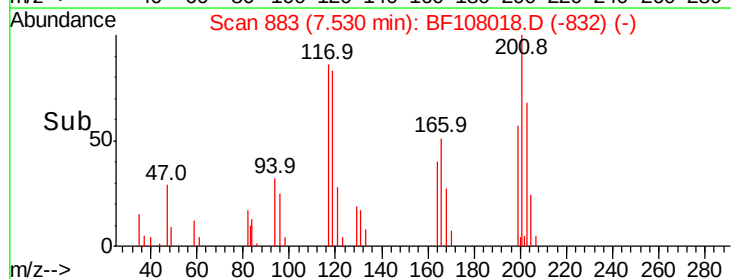
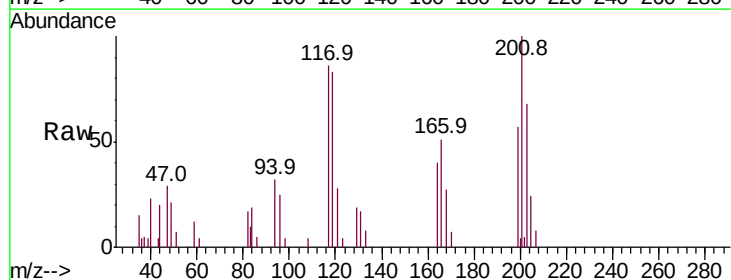
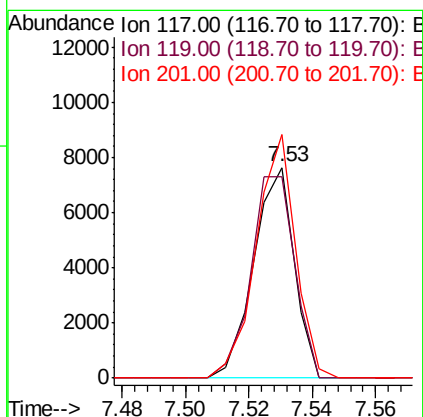
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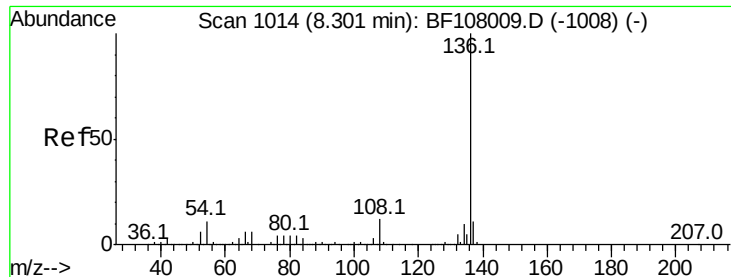
Sohil
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#18
Hexachloroethane
Concen: 0.948 ng
RT: 7.53 min Scan# 883
Delta R.T. -0.00 min
Lab File: BF108018.D
Acq: 8 Aug 2018 14:38

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.8	75.8	113.8
201	115.7	75.7	113.5#





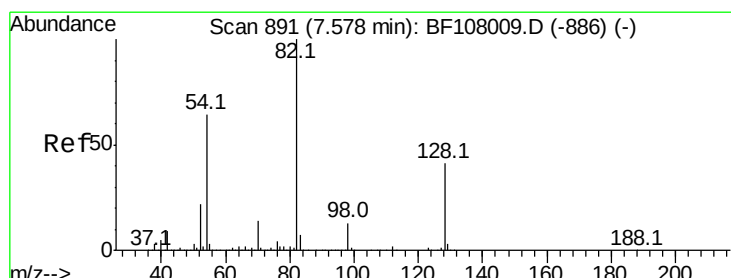
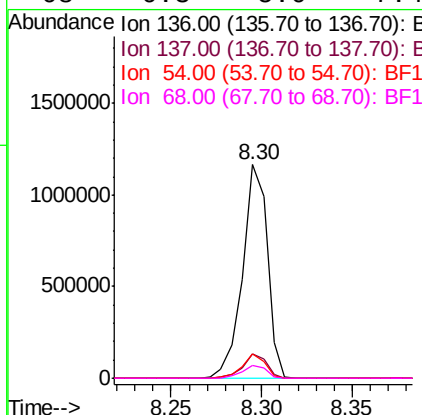
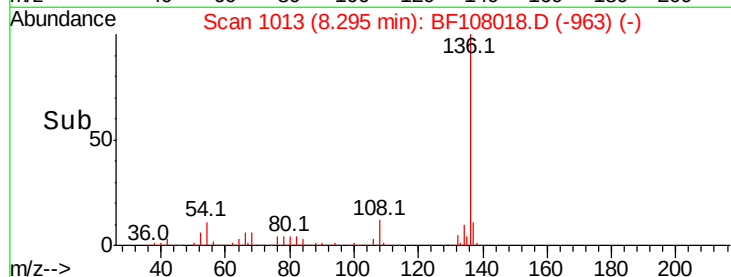
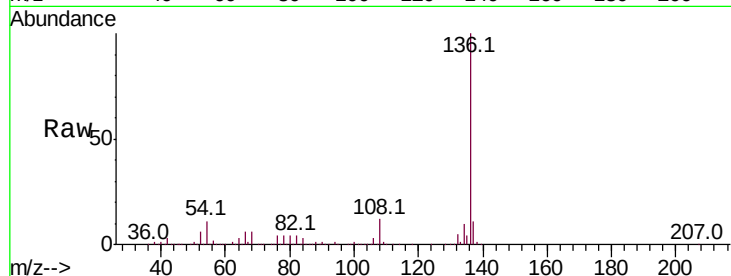
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.30 min Scan# 1013
Delta R.T. -0.01 min
Lab File: BF108018.D
Acq: 8 Aug 2018 14:38

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

Tot Ion	Ratio	Lower	Upper
136	100		
137	11.5	8.9	13.3
54	11.4	6.6	9.8#
68	6.3	5.0	7.4

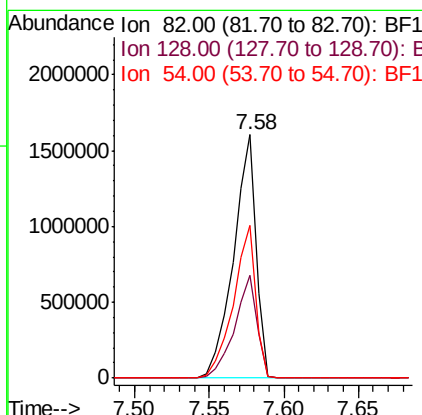
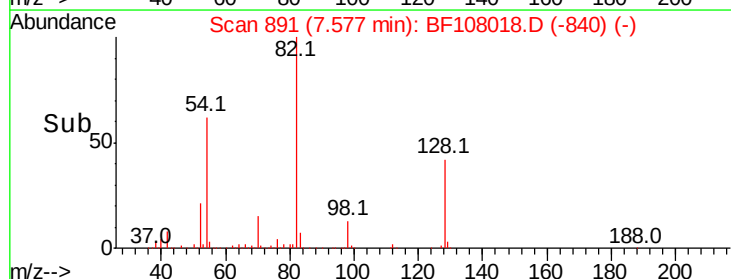
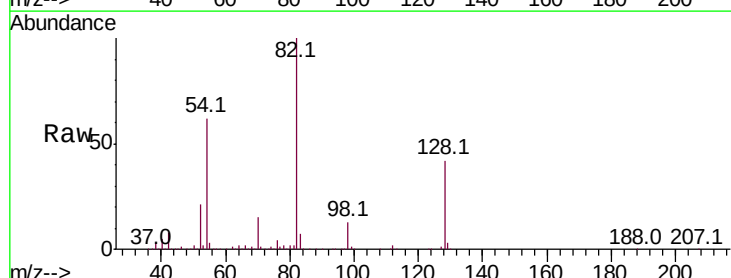
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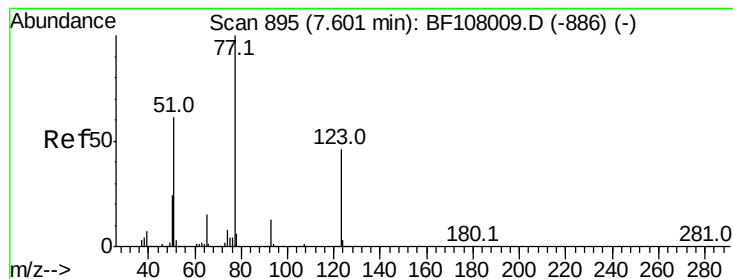
Sohil
8/9/2018 5:01:11 PM



#23
Nitrobenzene-d5
Concen: 86.042 ng
RT: 7.58 min Scan# 891
Delta R.T. -0.00 min
Lab File: BF108018.D
Acq: 8 Aug 2018 14:38

Tgt Ion	Ratio	Lower	Upper
82	100		
128	42.0	36.1	54.1
54	62.5	41.4	62.2#





#24

Nitrobenzene

Concen: 1.331 ng

RT: 7.59 min Scan# 893

Delta R.T. -0.01 min

Lab File: BF108018.D

Acq: 8 Aug 2018 14:38

Instrument :

BNA_F

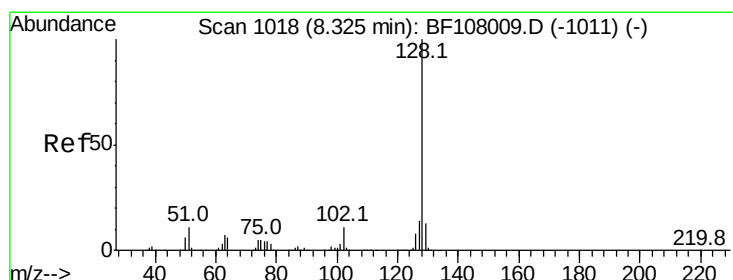
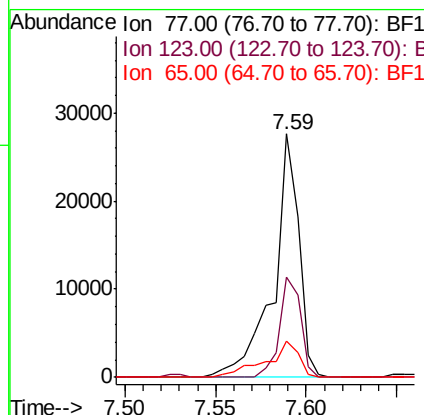
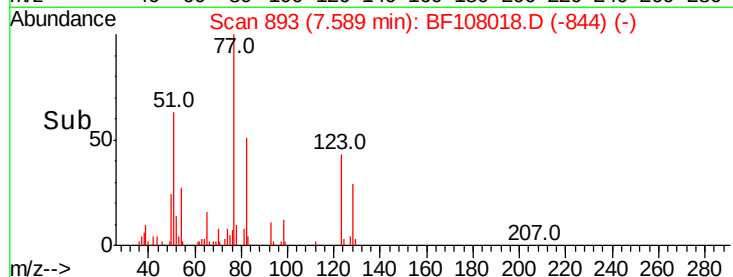
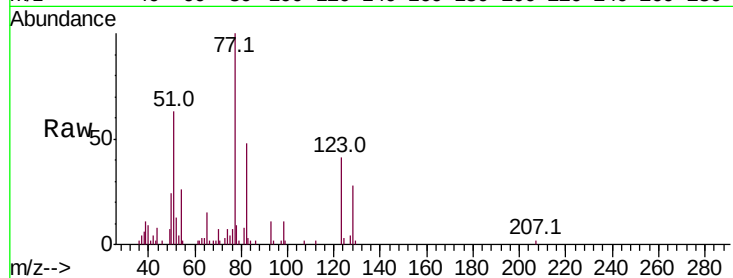
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion:	77	Resp:	26647
Ion Ratio	Lower	Upper	
77	100		
123	41.0	37.9	56.9
65	14.8	11.0	16.4

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#31

Naphthalene

Concen: 1.141 ng

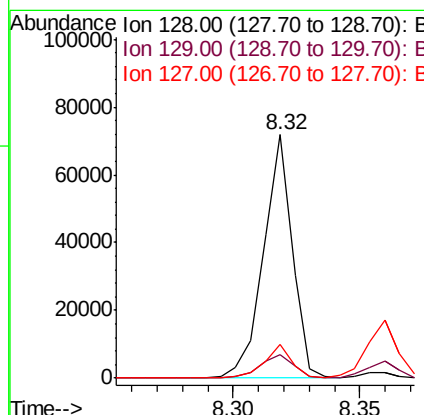
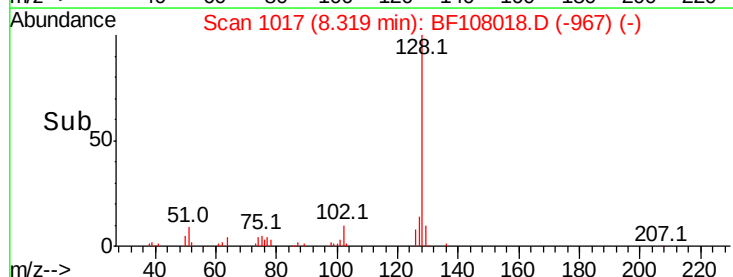
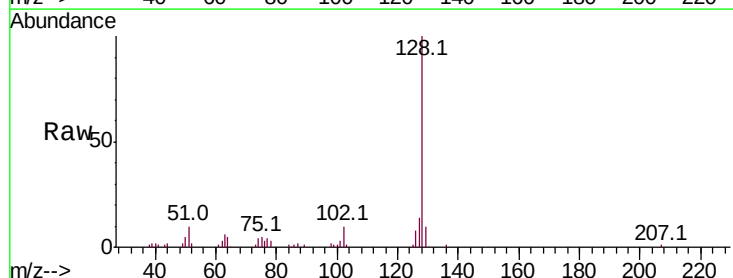
RT: 8.32 min Scan# 1017

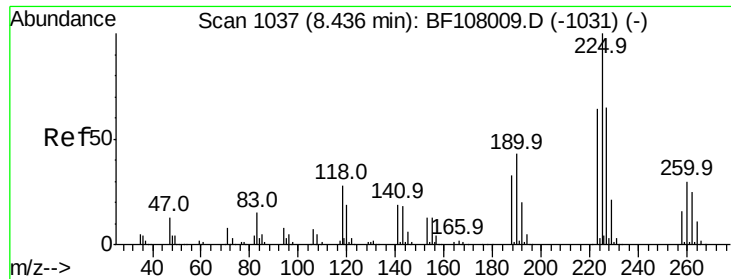
Delta R.T. -0.01 min

Lab File: BF108018.D

Acq: 8 Aug 2018 14:38

Tgt Ion:	128	Resp:	57334
Ion Ratio	Lower	Upper	
128	100		
129	9.9	8.8	13.2
127	13.6	10.9	16.3





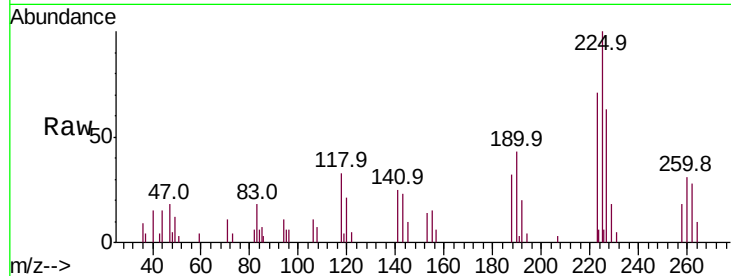
#34
Hexachlorobutadiene
Concen: 1.065 ng
RT: 8.43 min Scan# 1036
Delta R.T. -0.01 min
Lab File: BF108018.D
Acq: 8 Aug 2018 14:38

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

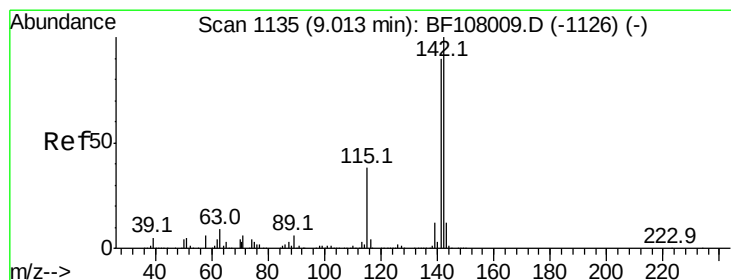
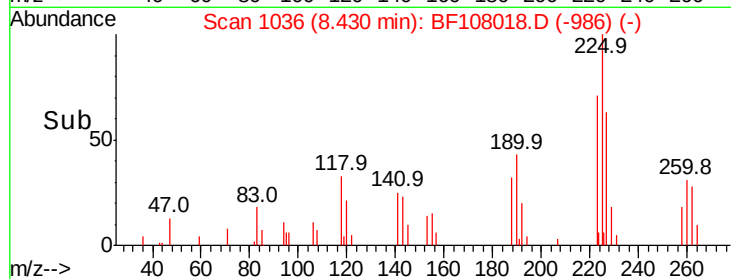
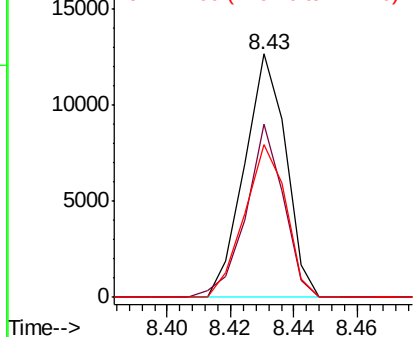
Tot Ion:	225	Resp:	11458
Ion Ratio	Lower	Upper	
225	100		
223	71.4	50.6	76.0
227	62.6	51.9	77.9

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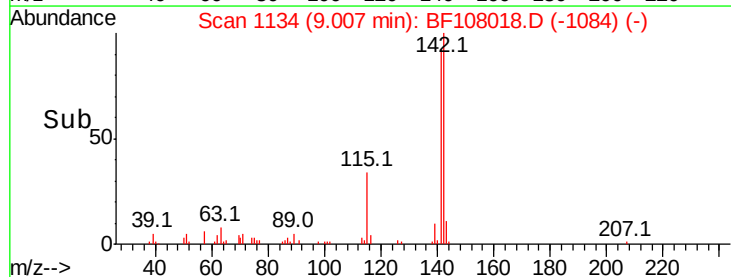
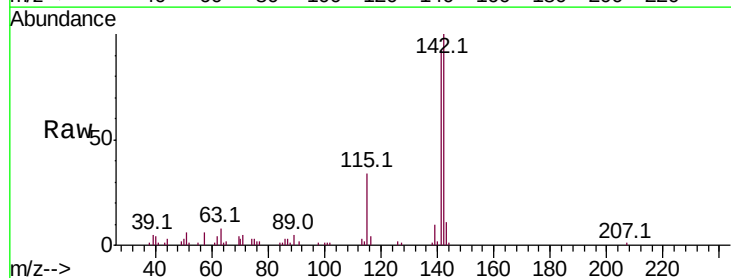
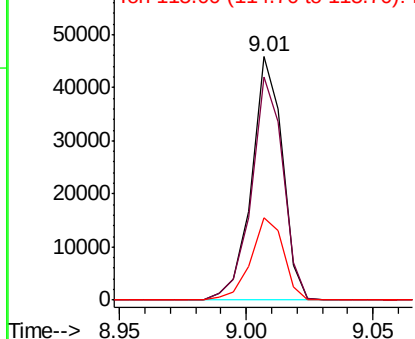
Abundance Ion 225.00 (224.70 to 225.70): E
Ion 223.00 (222.70 to 223.70): E
Ion 227.00 (226.70 to 227.70): E

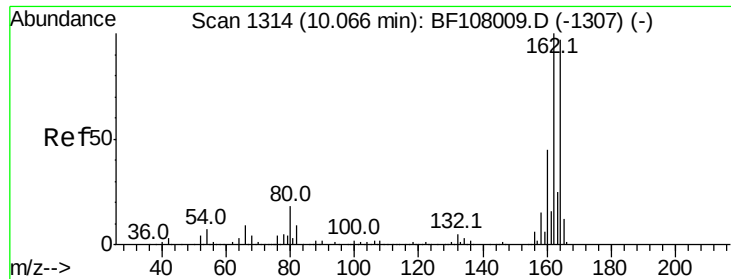


#37
2-Methylnaphthalene
Concen: 1.101 ng
RT: 9.01 min Scan# 1134
Delta R.T. -0.01 min
Lab File: BF108018.D
Acq: 8 Aug 2018 14:38

Tgt Ion:	142	Resp:	39121
Ion Ratio	Lower	Upper	
142	100		
141	91.8	70.8	106.2
115	34.1	26.1	39.1

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: 10.06 min Scan# 1313

Delta R.T. -0.01 min

Lab File: BF108018.D

Acq: 8 Aug 2018 14:38

Instrument :

BNA_F

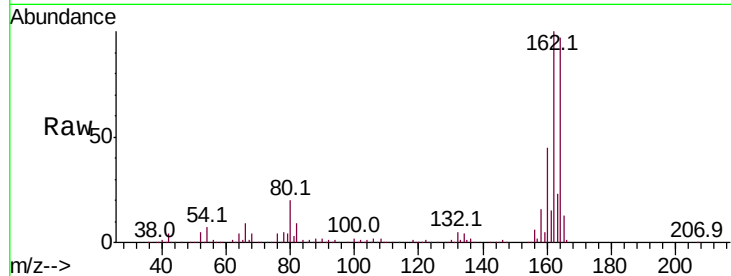
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion:	164	Resp:	603532
Ion Ratio	Lower	Upper	
164	100		
162	102.6	86.1	129.1
160	46.5	38.3	57.5

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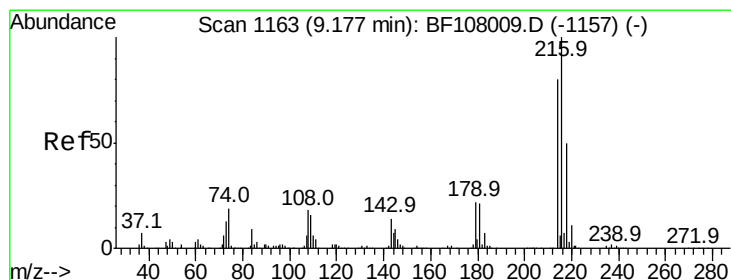
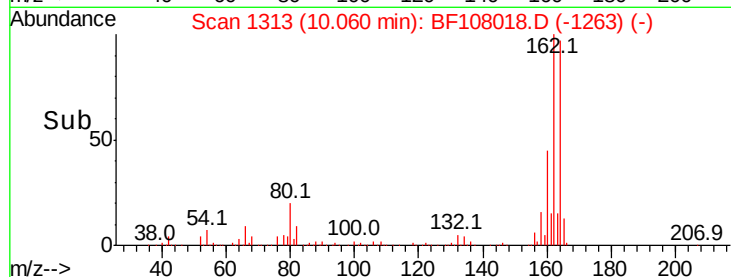
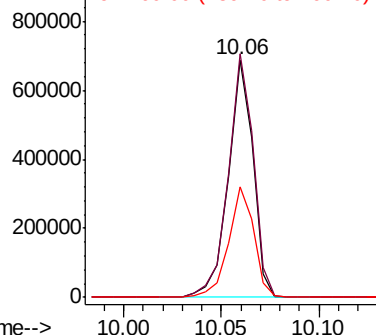


Abundance

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



#39

1,2,4,5-Tetrachlorobenzene

Concen: 1.064 ng

RT: 9.17 min Scan# 1162

Delta R.T. -0.01 min

Lab File: BF108018.D

Acq: 8 Aug 2018 14:38

Tgt Ion:	216	Resp:	19714
Ion Ratio	Lower	Upper	
216	100		
214	80.4	63.0	94.4
179	19.4	18.1	27.1
108	17.2	17.2	25.8#

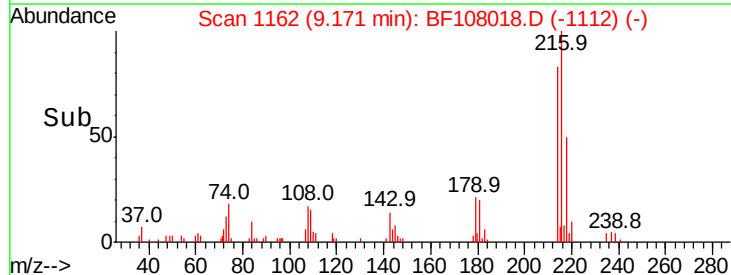
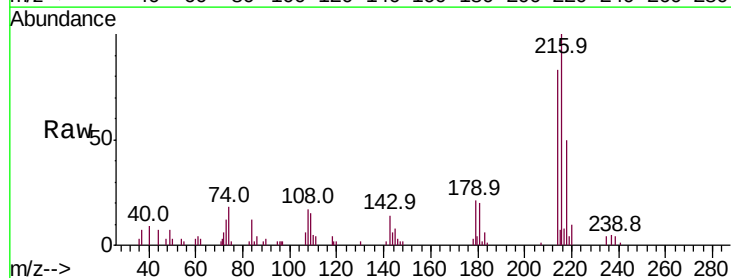
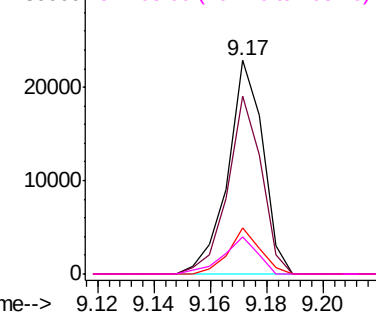
Abundance

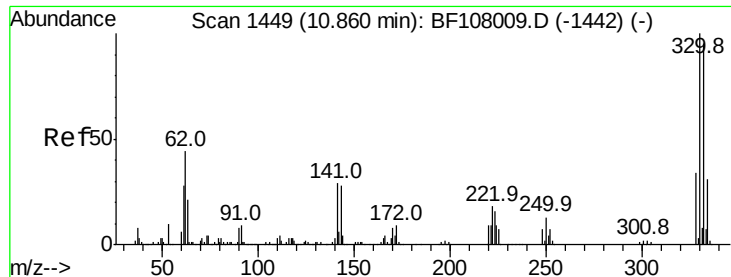
Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E





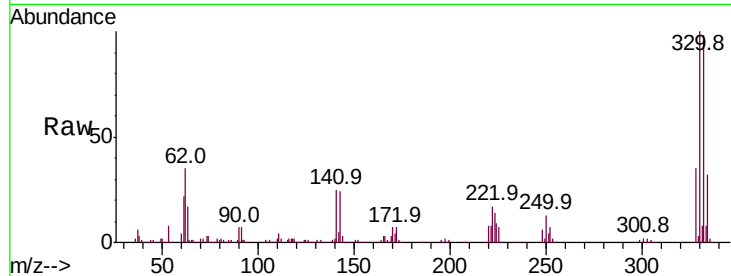
#41
 2,4,6-Tribromophenol
 Concen: 137.004 ng
 RT: 10.86 min Scan# 1449
 Delta R.T. -0.00 min
 Lab File: BF108018.D
 Acq: 8 Aug 2018 14:38

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

Tot Ion	Ratio	Lower	Upper
330	100		
332	98.3	77.0	115.6
141	34.9	29.9	44.9

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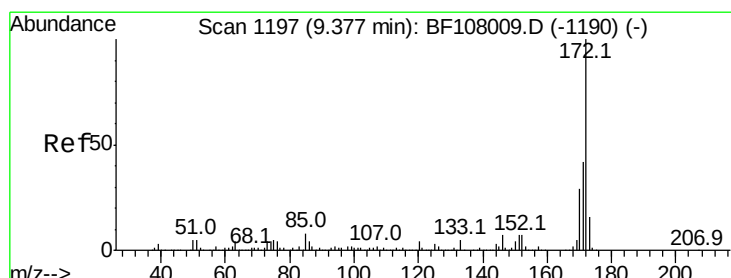
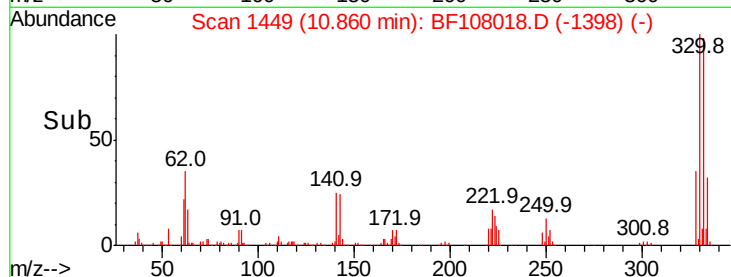
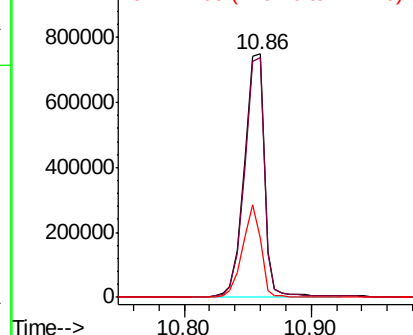


Abundance

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



#44
 2-Fluorobiphenyl
 Concen: 82.620 ng
 RT: 9.38 min Scan# 1197
 Delta R.T. -0.00 min
 Lab File: BF108018.D
 Acq: 8 Aug 2018 14:38

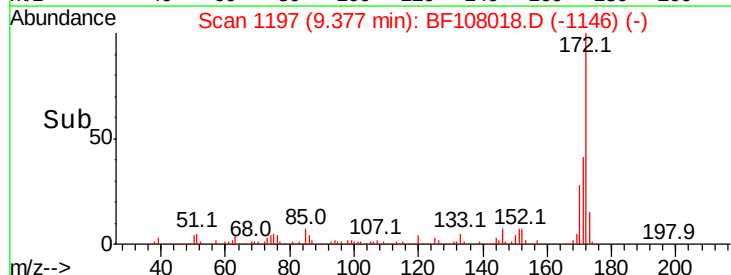
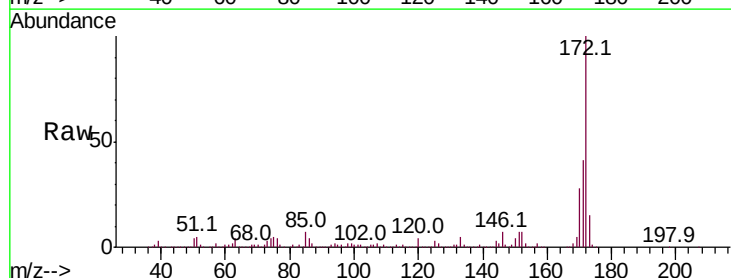
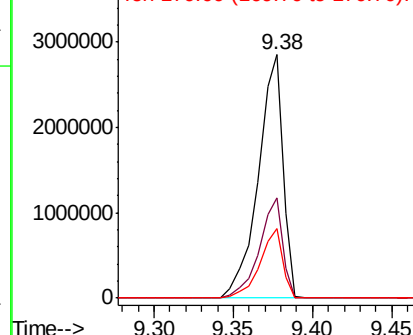
Tgt Ion	Ratio	Lower	Upper
172	100		
171	41.3	29.7	44.5
170	28.3	19.6	29.4

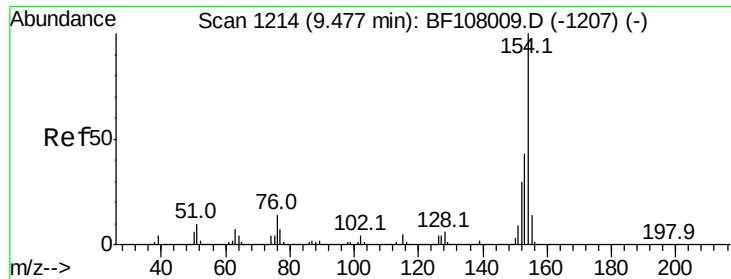
Abundance

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





#45

1,1'-Biphenyl

Concen: 1.263 ng

RT: 9.47 min Scan# 1213

Delta R.T. -0.01 min

Lab File: BF108018.D

Acq: 8 Aug 2018 14:38

Instrument :

BNA_F

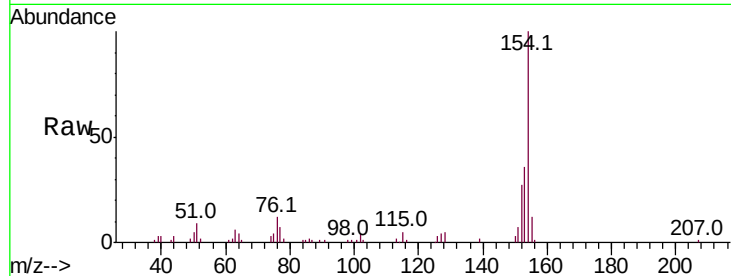
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

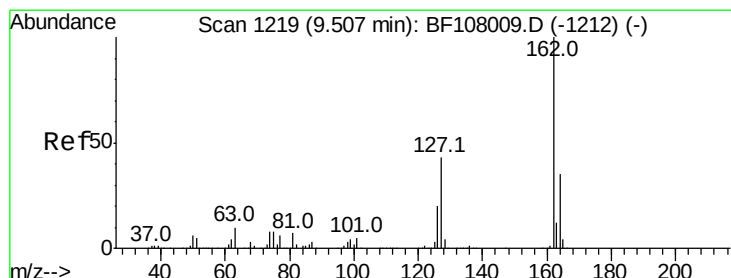
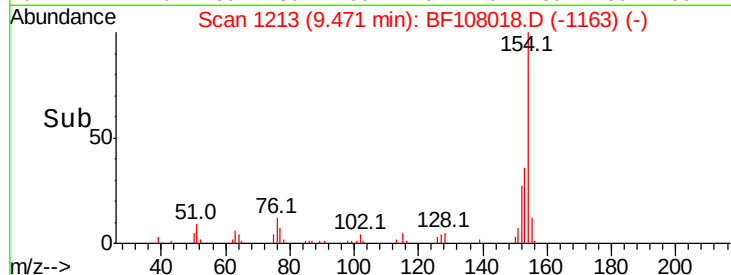
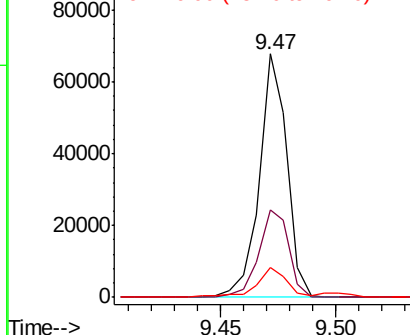
Tot Ion:	154	Resp:	56197
Ion Ratio	Lower	Upper	
154	100		
153	36.0	21.3	61.3
76	12.1	0.0	34.0

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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): BF1



#46

2-Chloronaphthalene

Concen: 1.083 ng

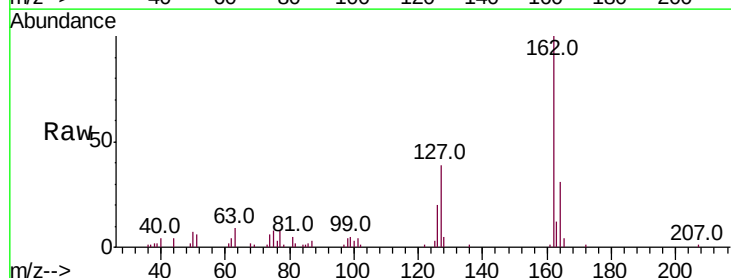
RT: 9.50 min Scan# 1218

Delta R.T. -0.01 min

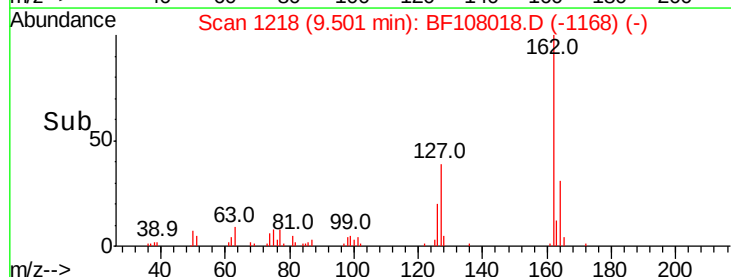
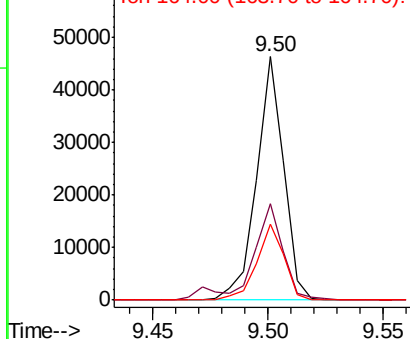
Lab File: BF108018.D

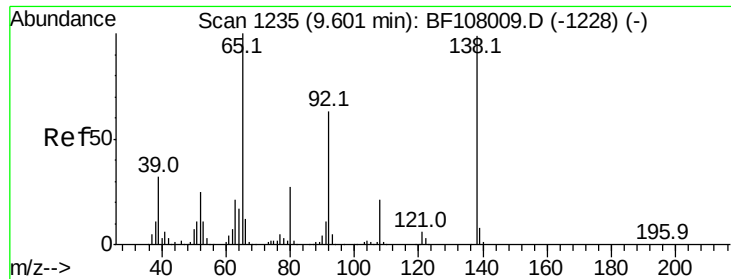
Acq: 8 Aug 2018 14:38

Tgt Ion:	162	Resp:	38094
Ion Ratio	Lower	Upper	
162	100		
127	39.5	33.9	50.9
164	31.3	26.5	39.7



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





#47

2-Nitroaniline

Concen: 0.768 ng/mL

RT: 9.59 min Scan# 1233

Delta R.T. -0.01 min

Lab File: BF108018.D

Acq: 8 Aug 2018 14:38

Instrument :

BNA_F

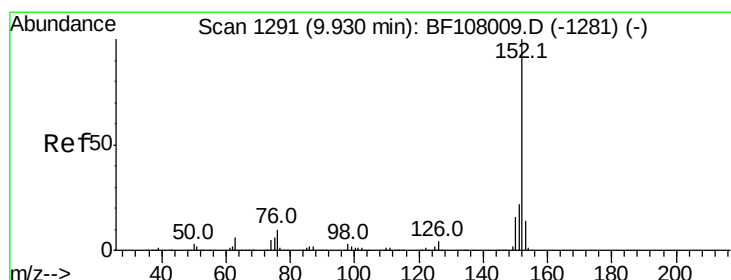
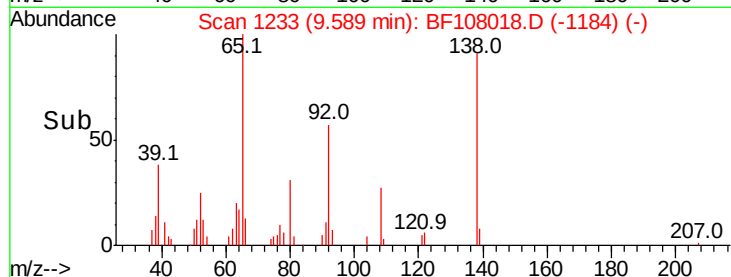
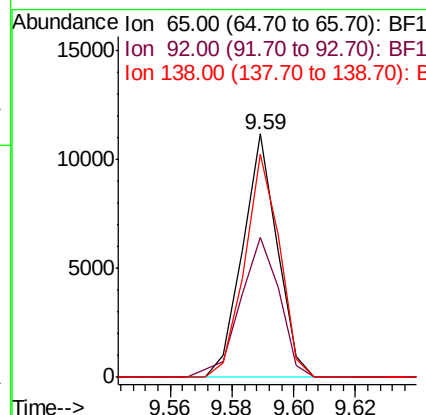
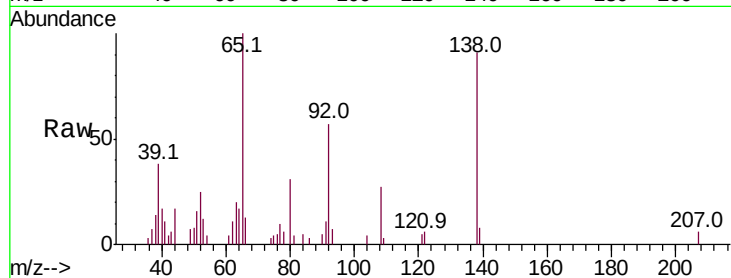
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion:	65	Resp:	8734
Ion Ratio	Lower	Upper	
65	100		
92	57.3	55.8	83.6
138	91.4	91.2	136.8

Manual Integrations
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#48

Acenaphthylene

Concen: 1.105 ng/mL

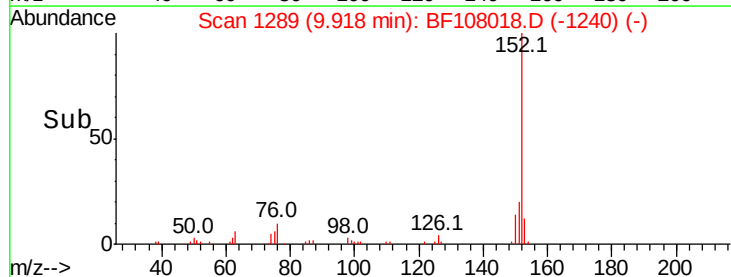
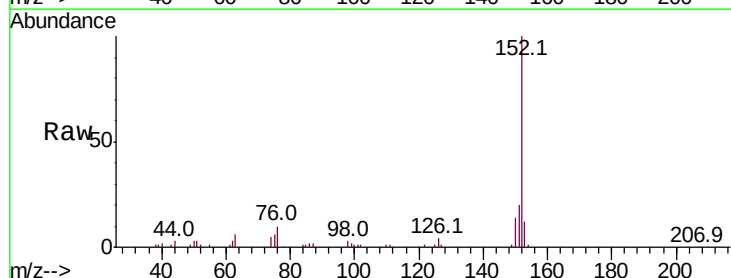
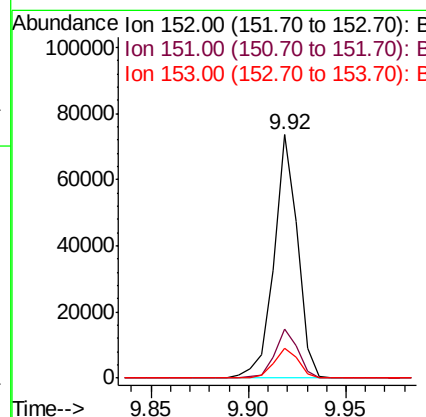
RT: 9.92 min Scan# 1289

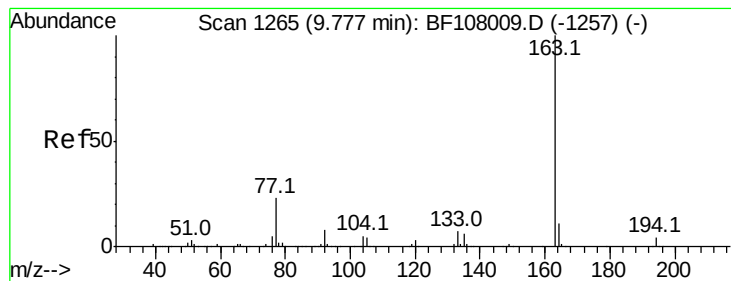
Delta R.T. -0.01 min

Lab File: BF108018.D

Acq: 8 Aug 2018 14:38

Tgt Ion:	152	Resp:	61437
Ion Ratio	Lower	Upper	
152	100		
151	19.9	16.3	24.5
153	12.2	10.7	16.1





#49

Dimethylphthalate

Concen: 1.110 ng

RT: 9.77 min Scan# 1263

Delta R.T. -0.01 min

Lab File: BF108018.D

Acq: 8 Aug 2018 14:38

Instrument :

BNA_F

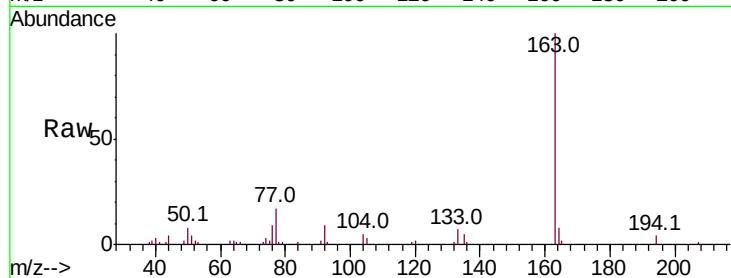
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

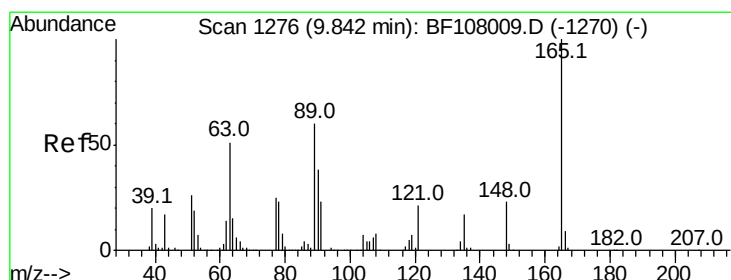
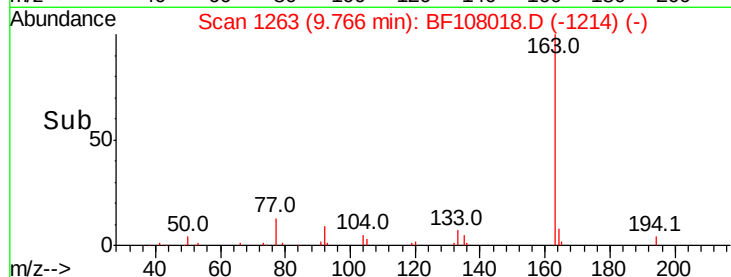
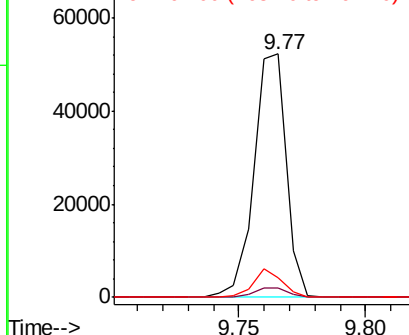
Tot Ion:	163	Resp:	46654
Ion Ratio	Lower	Upper	
163	100		
194	3.9	2.7	4.1
164	8.1	8.2	12.2#

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Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E



#50

2,6-Dinitrotoluene

Concen: 0.802 ng

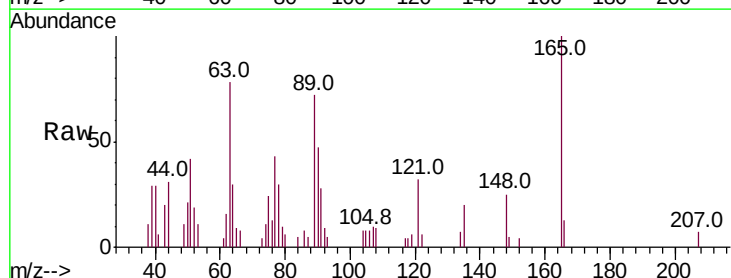
RT: 9.83 min Scan# 1274

Delta R.T. -0.01 min

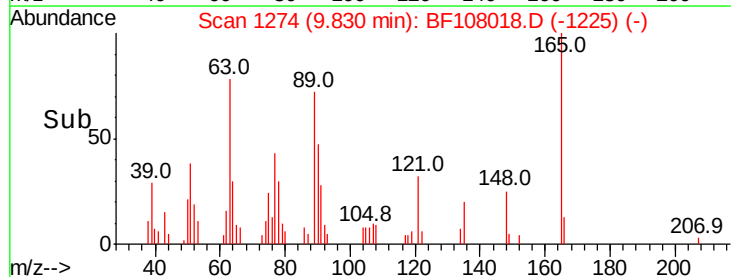
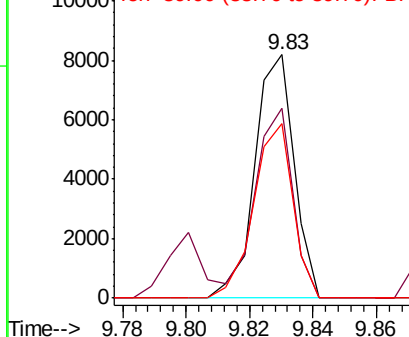
Lab File: BF108018.D

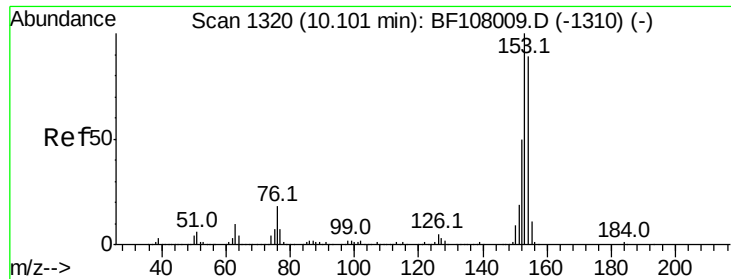
Acq: 8 Aug 2018 14:38

Tgt Ion:	165	Resp:	7052
Ion Ratio	Lower	Upper	
165	100		
63	78.2	44.7	67.1#
89	71.7	44.0	66.0#



Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1





#51

Acenaphthene

Concen: 1.162 ng

RT: 10.09 min Scan# 1318

Delta R.T. -0.01 min

Lab File: BF108018.D

Acq: 8 Aug 2018 14:38

Instrument :

BNA_F

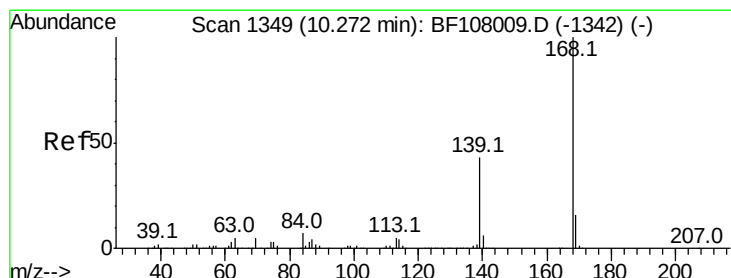
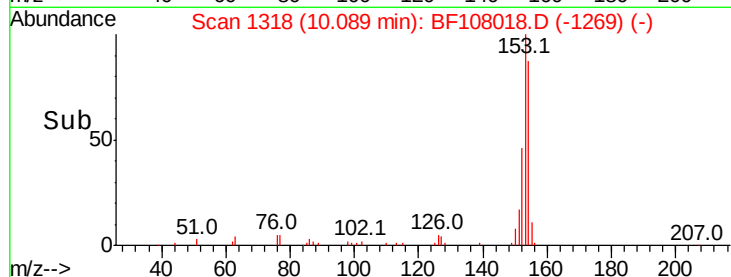
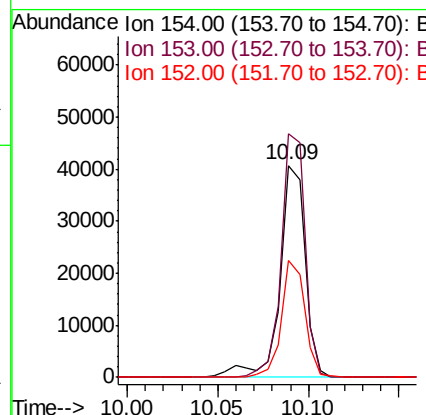
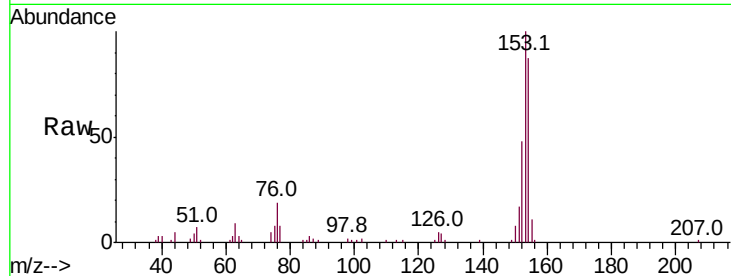
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion:	154	Resp:	39561
Ion Ratio	Lower	Upper	
154	100		
153	115.0	91.2	136.8
152	55.1	43.8	65.8

Manual Integrations
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#54

Dibenzofuran

Concen: 1.157 ng

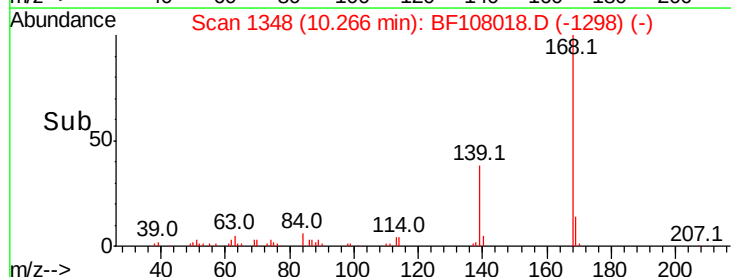
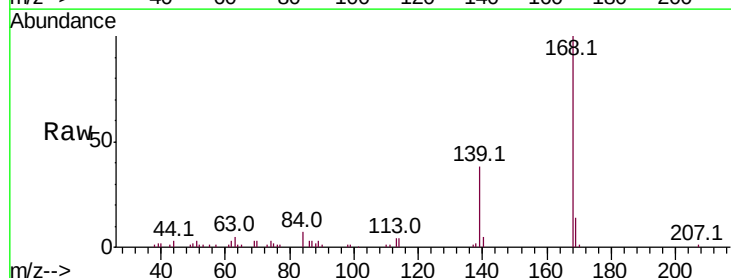
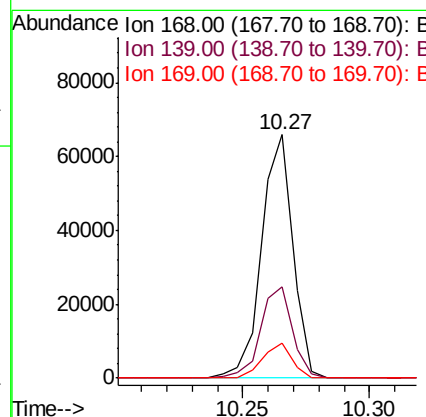
RT: 10.27 min Scan# 1348

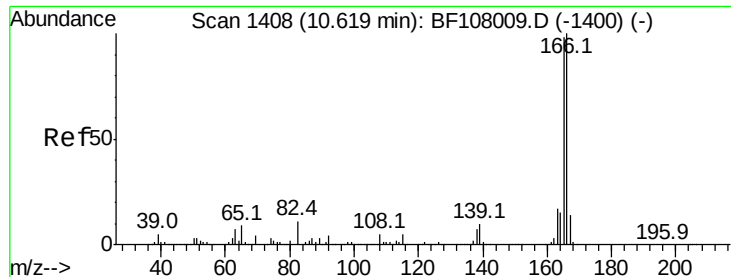
Delta R.T. -0.01 min

Lab File: BF108018.D

Acq: 8 Aug 2018 14:38

Tgt Ion:	168	Resp:	57076
Ion Ratio	Lower	Upper	
168	100		
139	37.7	30.1	45.1
169	14.5	10.9	16.3





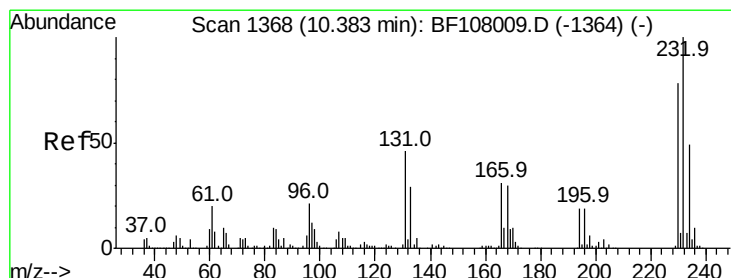
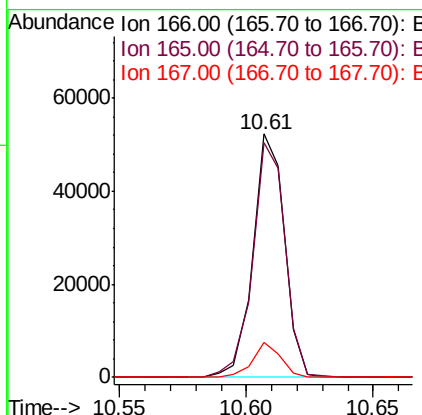
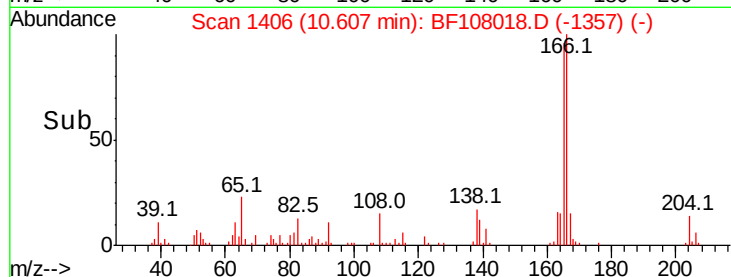
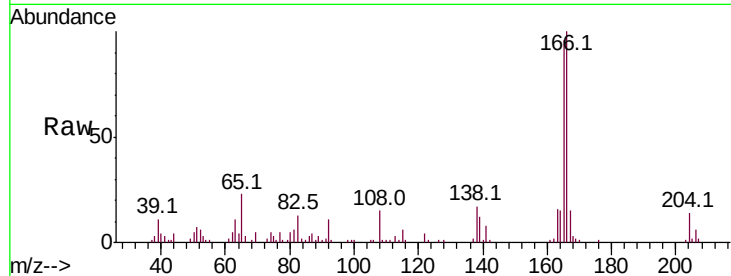
#57
 Fluorene
 Concen: 1.163 ng
 RT: 10.61 min Scan# 1406
 Delta R.T. -0.01 min
 Lab File: BF108018.D
 Acq: 8 Aug 2018 14:38

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

Tot Ion	Ratio	Lower	Upper
166	100		
165	96.3	79.8	119.8
167	14.6	10.6	16.0

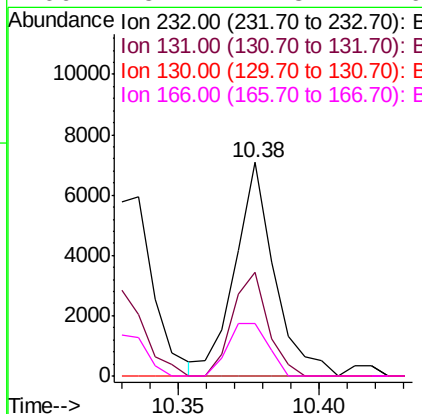
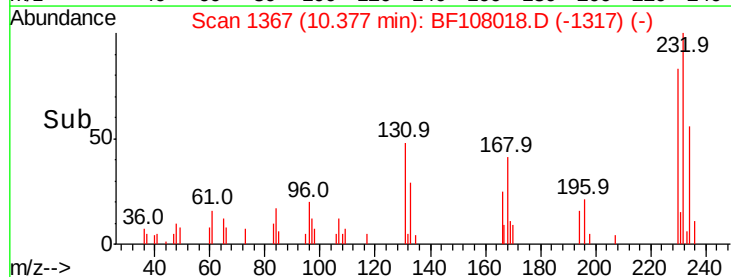
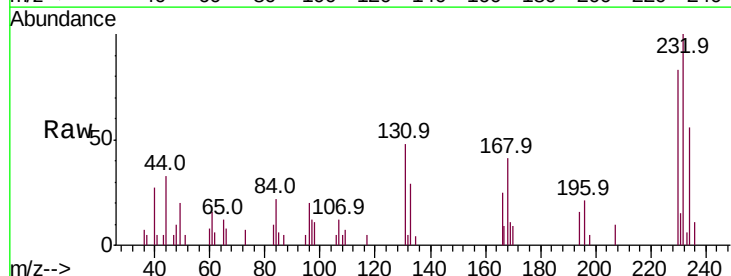
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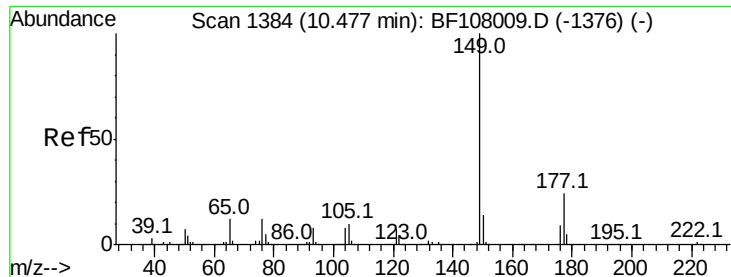
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#58
 2,3,4,6-Tetrachlorophenol
 Concen: 0.652 ng
 RT: 10.38 min Scan# 1367
 Delta R.T. -0.01 min
 Lab File: BF108018.D
 Acq: 8 Aug 2018 14:38

Tgt Ion	Ratio	Lower	Upper
232	100		
131	43.6	43.8	65.8#
130	0.0	2.1	3.1#
166	25.1	27.8	41.6#





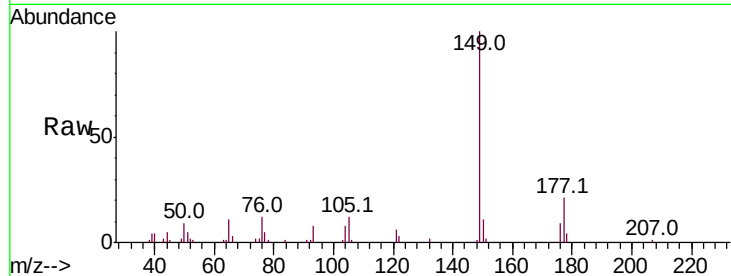
#59
Diethylphthalate
Concen: 1.077 ng
RT: 10.47 min Scan# 1382
Delta R.T. -0.01 min
Lab File: BF108018.D
Acq: 8 Aug 2018 14:38

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

Tot Ion	Ratio	Lower	Upper
149	100		
177	21.0	16.1	24.1
150	11.2	10.1	15.1

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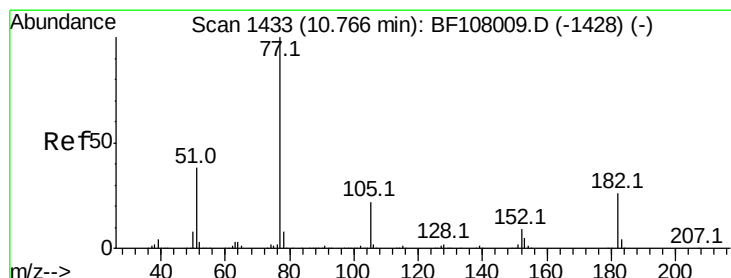
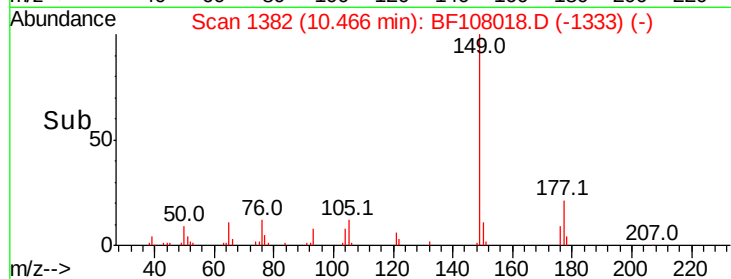
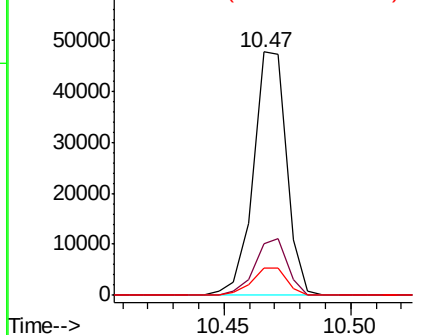


Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 177.00 (176.70 to 177.70): E

Ion 150.00 (149.70 to 150.70): E



#62
Azobenzene
Concen: 1.062 ng
RT: 10.76 min Scan# 1432
Delta R.T. -0.01 min
Lab File: BF108018.D
Acq: 8 Aug 2018 14:38

Tgt Ion	Ratio	Lower	Upper
77	100		
182	23.9	1.7	41.7
105	21.8	3.0	43.0
51	34.1	9.9	49.9

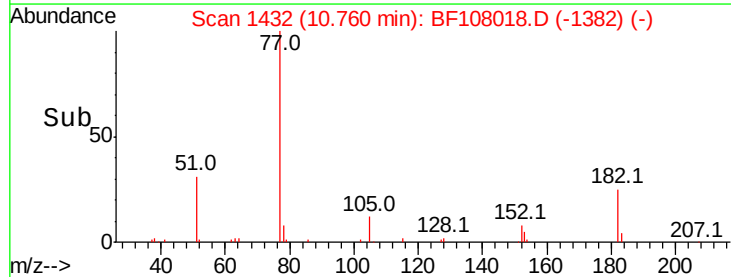
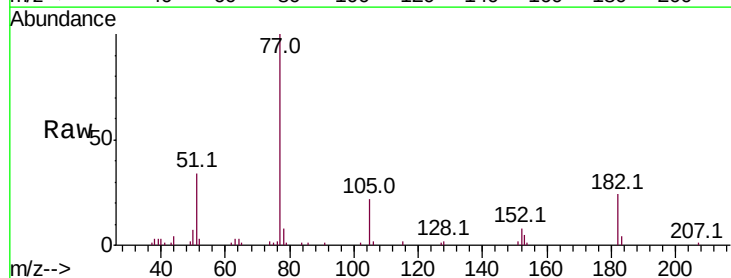
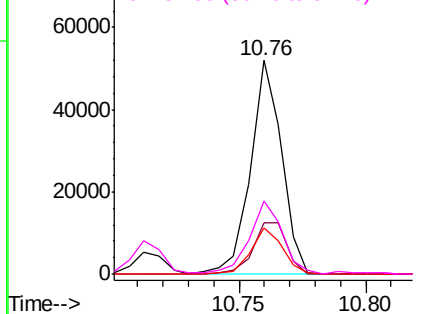
Abundance

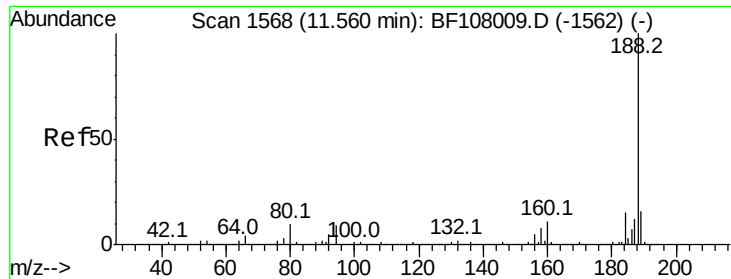
Ion 77.00 (76.70 to 77.70): BF1

Ion 182.00 (181.70 to 182.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 51.00 (50.70 to 51.70): BF1





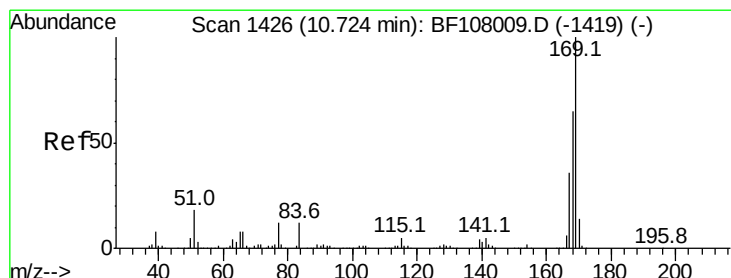
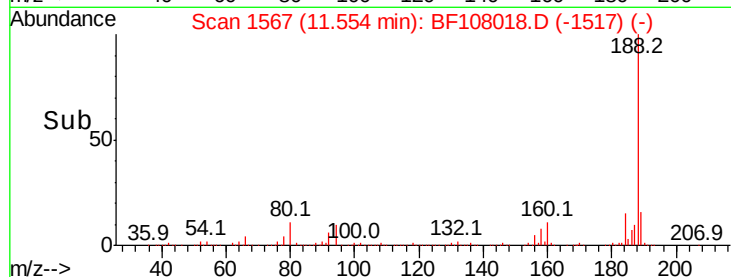
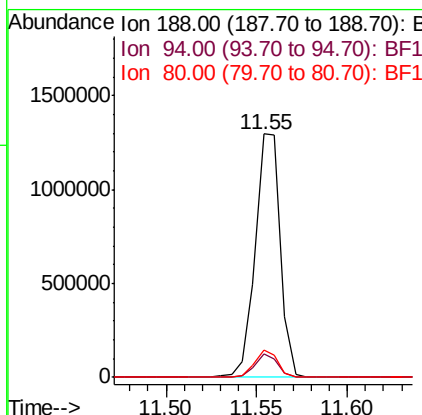
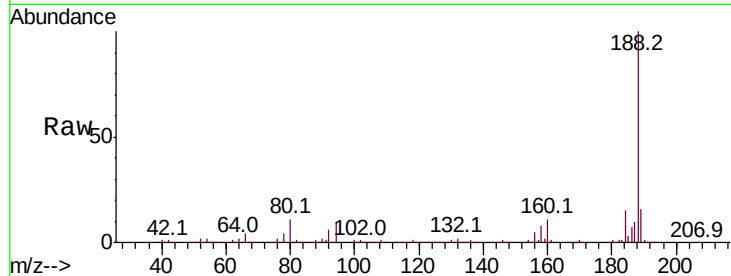
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.55 min Scan# 1567
Delta R.T. -0.01 min
Lab File: BF108018.D
Acq: 8 Aug 2018 14:38

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

Tot Ion	Ratio	Lower	Upper
188	100		
94	9.7	8.5	12.7
80	11.5	9.2	13.8

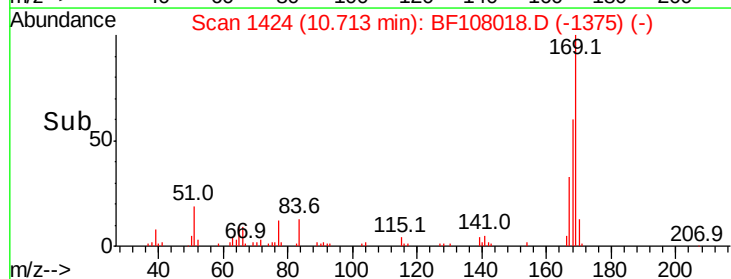
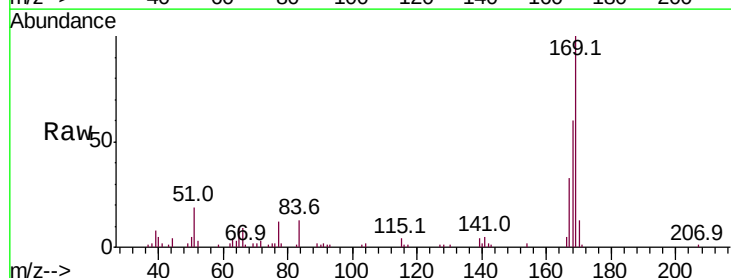
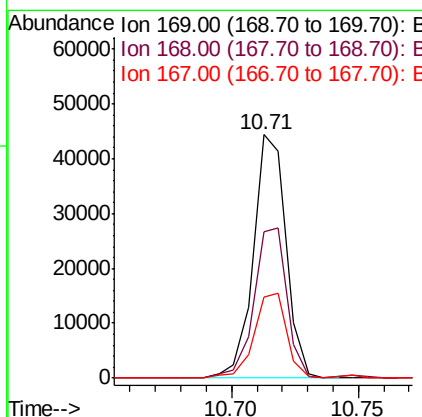
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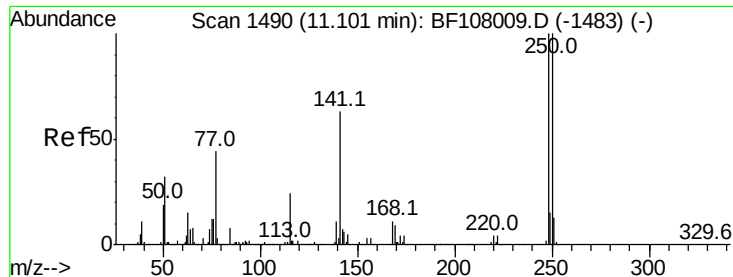
Sohil
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#65
n-Nitrosodiphenylamine
Concen: 1.079 ng
RT: 10.71 min Scan# 1424
Delta R.T. -0.01 min
Lab File: BF108018.D
Acq: 8 Aug 2018 14:38

Tgt Ion	Ratio	Lower	Upper
169	100		
168	59.9	54.4	81.6
167	33.4	29.8	44.6





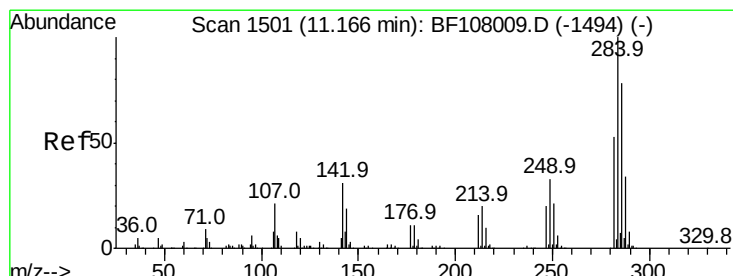
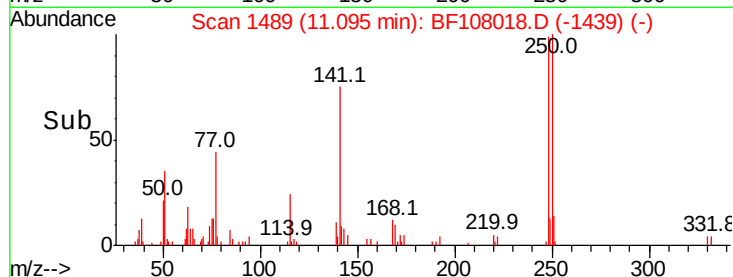
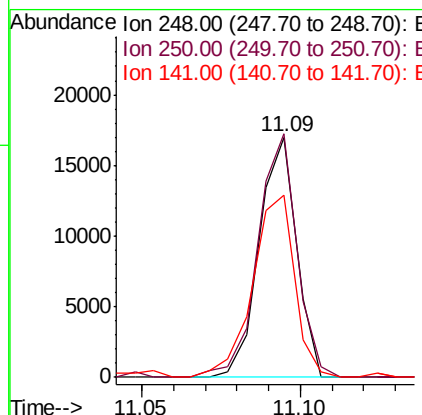
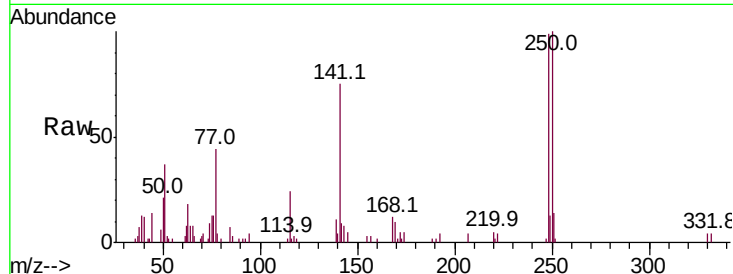
#66
4-Bromophenyl-phenylether
Concen: 1.026 ng
RT: 11.09 min Scan# 1489
Delta R.T. -0.01 min
Lab File: BF108018.D
Acq: 8 Aug 2018 14:38

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

Tot Ion	Ratio	Lower	Upper
248	100		
250	101.4	76.9	115.3
141	75.9	74.4	111.6

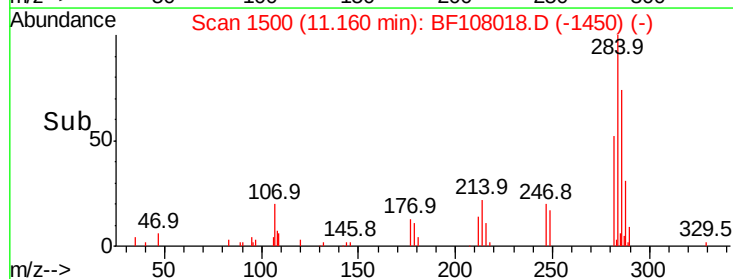
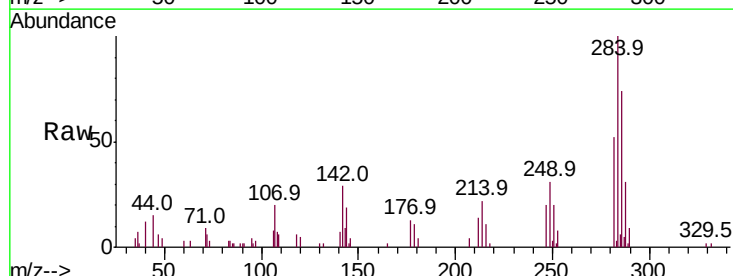
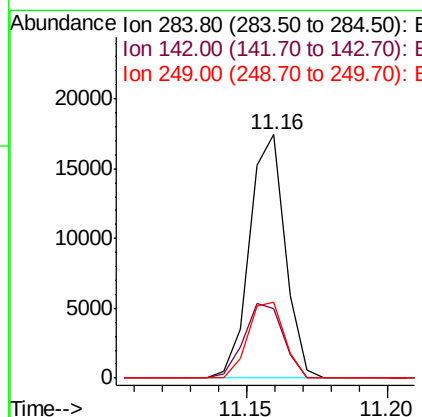
Manual Integrations
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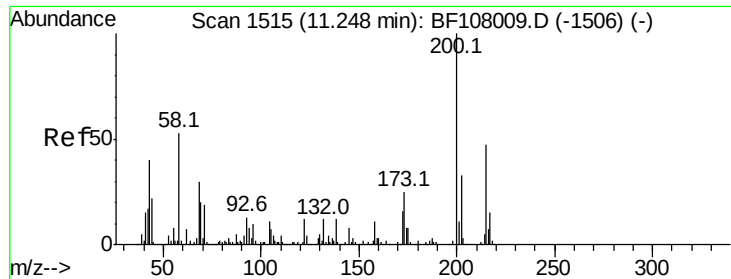
Sohil
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#67
Hexachlorobenzene
Concen: 1.067 ng
RT: 11.16 min Scan# 1500
Delta R.T. -0.01 min
Lab File: BF108018.D
Acq: 8 Aug 2018 14:38

Tgt Ion	Ratio	Lower	Upper
284	100		
142	28.6	34.6	52.0#
249	31.4	24.8	37.2





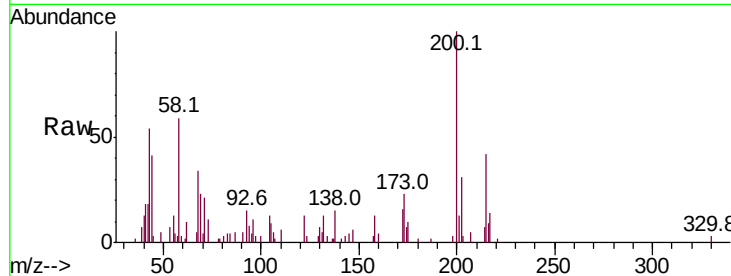
#68
Atrazine
Concen: 0.902 ng
RT: 11.23 min Scan# 1512
Delta R.T. -0.02 min
Lab File: BF108018.D
Acq: 8 Aug 2018 14:38

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

Tot Ion	Ratio	Lower	Upper
200	100		
173	23.5	8.6	48.6
215	42.2	25.1	65.1

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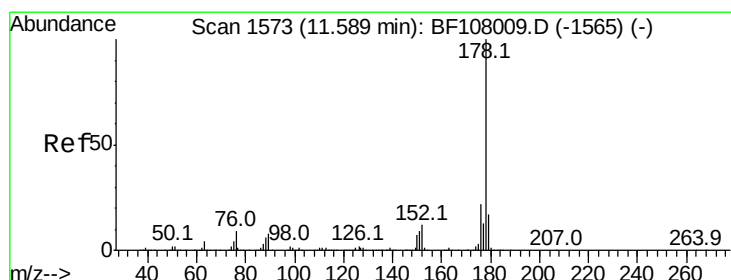
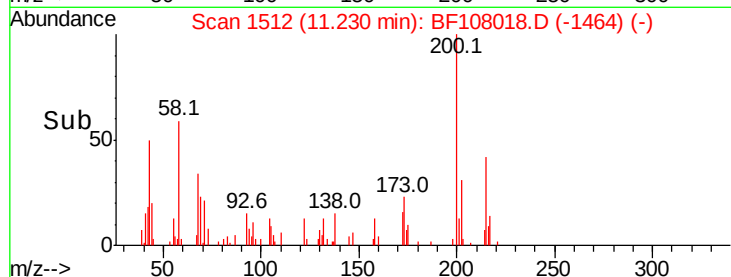
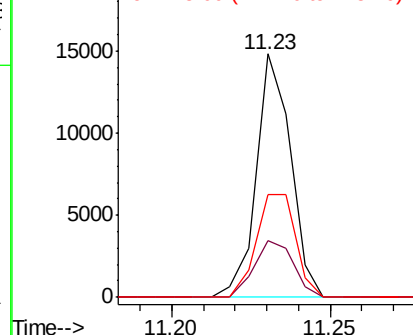


Abundance

Ion 200.00 (199.70 to 200.70): E

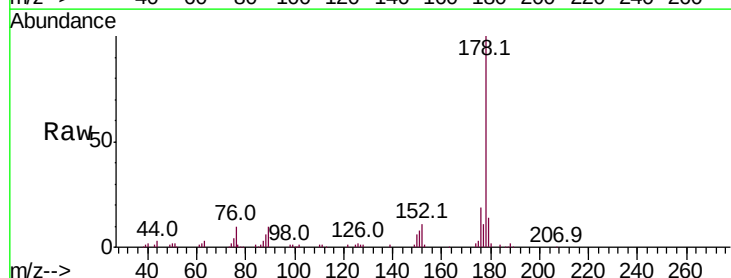
Ion 173.00 (172.70 to 173.70): E

Ion 215.00 (214.70 to 215.70): E



#70
Phenanthrene
Concen: 1.176 ng
RT: 11.58 min Scan# 1571
Delta R.T. -0.01 min
Lab File: BF108018.D
Acq: 8 Aug 2018 14:38

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.8	23.8
179	14.3	13.0	19.6

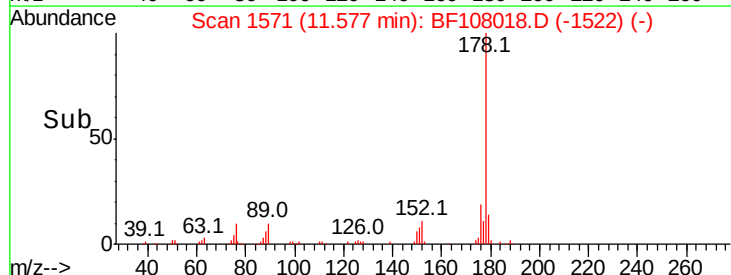
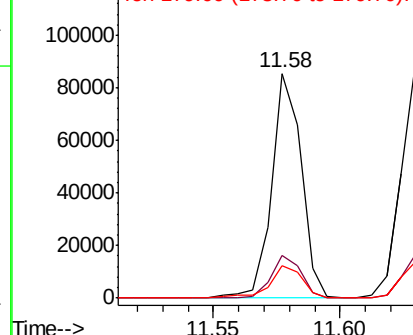


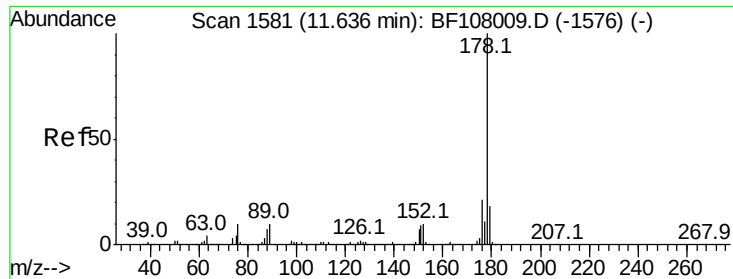
Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 1.175 ng

RT: 11.63 min Scan# 1580

Delta R.T. -0.01 min

Lab File: BF108018.D

Acq: 8 Aug 2018 14:38

Instrument :

BNA_F

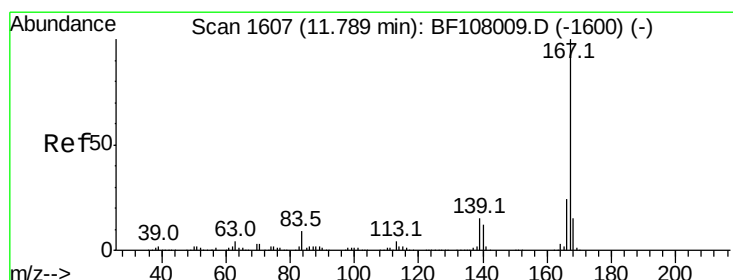
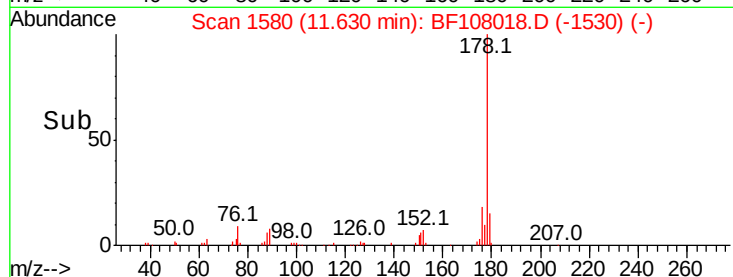
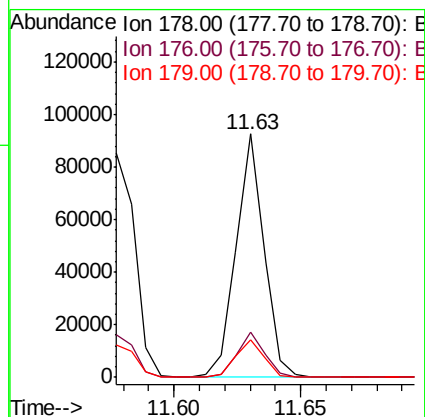
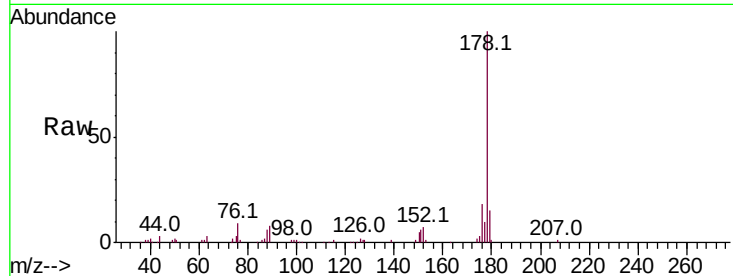
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion:	178	Resp:	70953
Ion Ratio	Lower	Upper	
178	100		
176	18.3	15.4	23.2
179	15.3	12.6	19.0

Manual Integrations
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8/9/2018 5:01:11 PM



#72

Carbazole

Concen: 1.108 ng

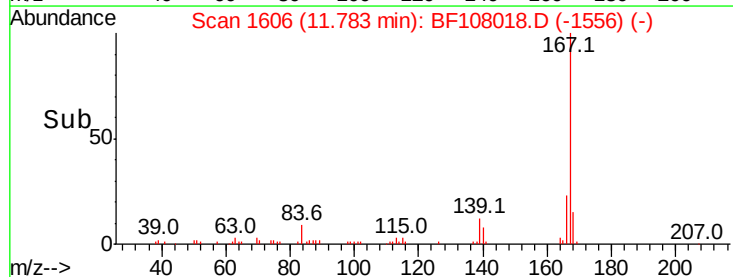
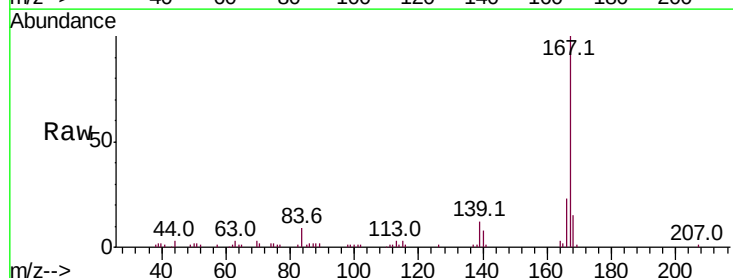
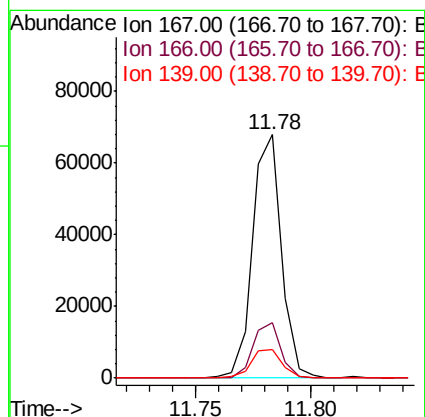
RT: 11.78 min Scan# 1606

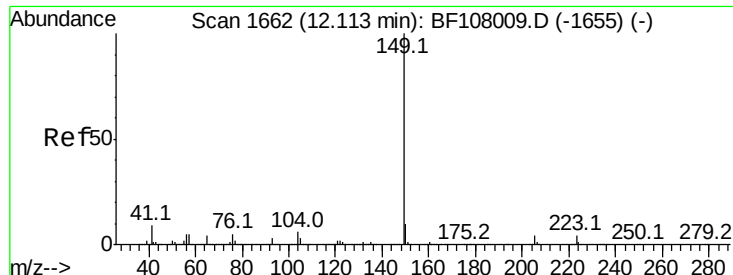
Delta R.T. -0.01 min

Lab File: BF108018.D

Acq: 8 Aug 2018 14:38

Tgt Ion:	167	Resp:	59429
Ion Ratio	Lower	Upper	
167	100		
166	22.7	17.6	26.4
139	11.7	10.9	16.3





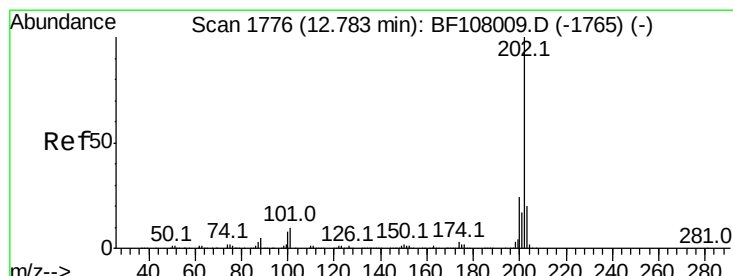
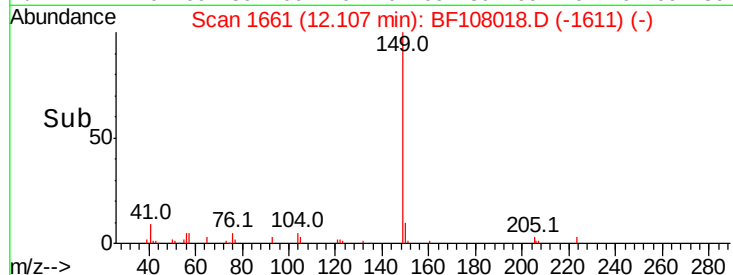
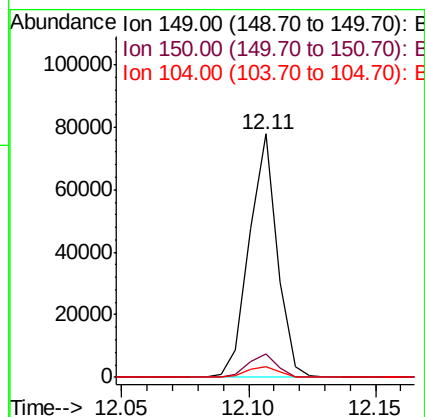
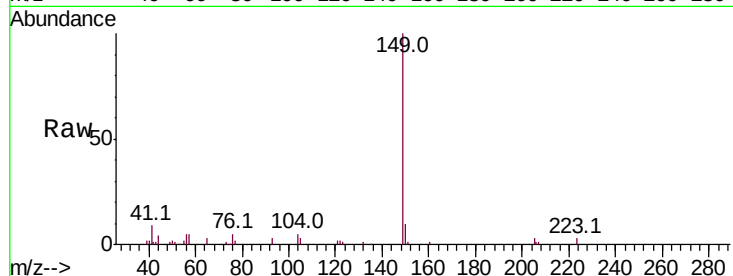
#73
Di-n-butylphthalate
Concen: 0.982 ng
RT: 12.11 min Scan# 1661
Delta R.T. -0.01 min
Lab File: BF108018.D
Acq: 8 Aug 2018 14:38

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

Tot Ion:	149	Resp:	59663
Ion Ratio	Lower	Upper	
149	100		
150	9.6	7.8	11.6
104	4.6	3.8	5.8

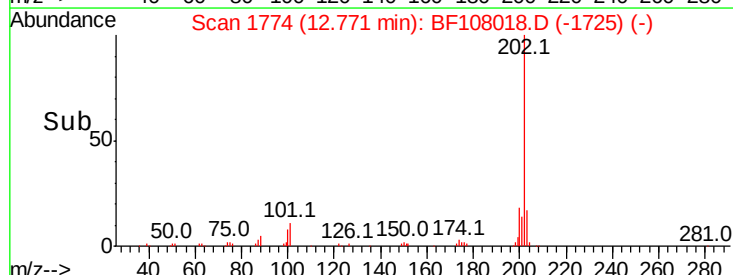
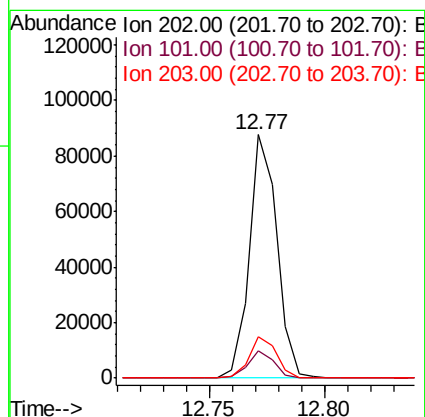
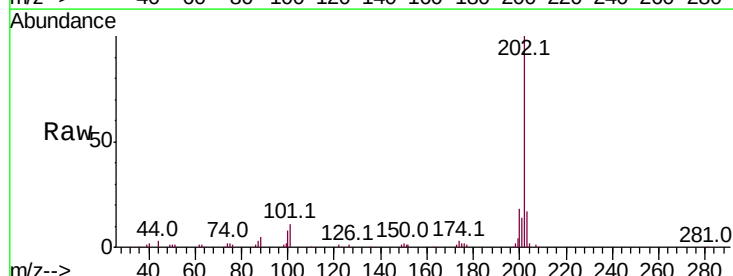
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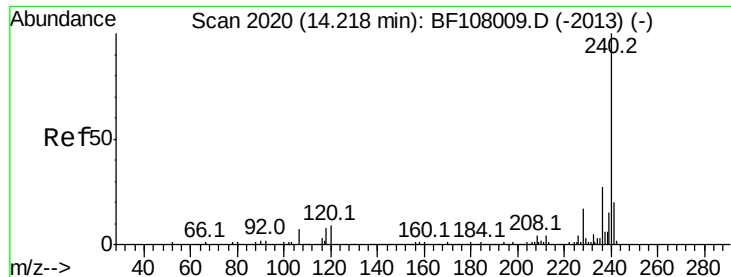
Sohil
8/9/2018 5:01:11 PM



#74
Fluoranthene
Concen: 1.142 ng
RT: 12.77 min Scan# 1774
Delta R.T. -0.01 min
Lab File: BF108018.D
Acq: 8 Aug 2018 14:38

Tgt Ion:	202	Resp:	73399
Ion Ratio	Lower	Upper	
202	100		
101	11.1	0.0	34.1
203	17.1	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.21 min Scan# 2019

Delta R.T. -0.01 min

Lab File: BF108018.D

Acq: 8 Aug 2018 14:38

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion:240 Resp: 1089503

Ion Ratio Lower Upper

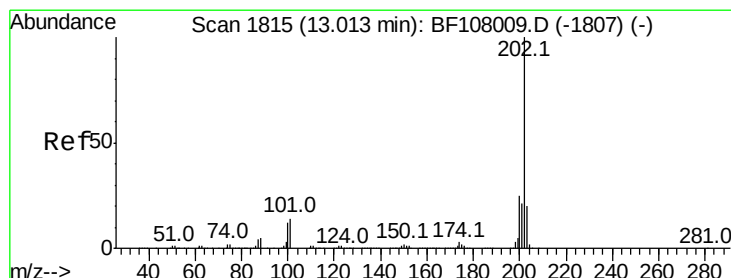
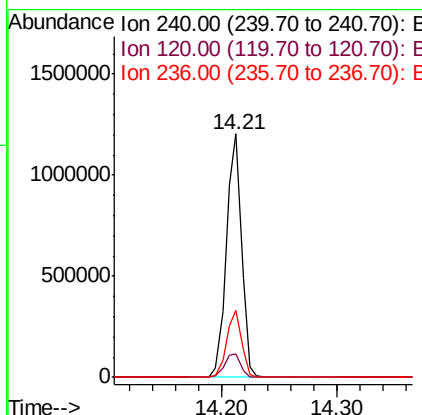
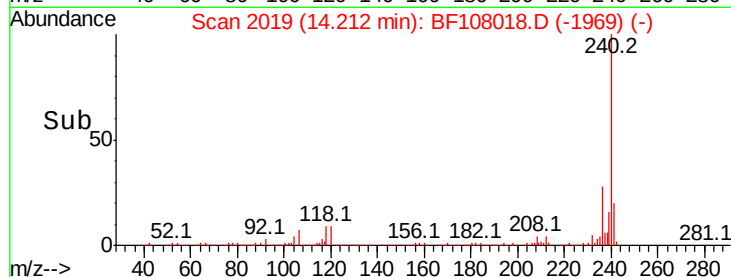
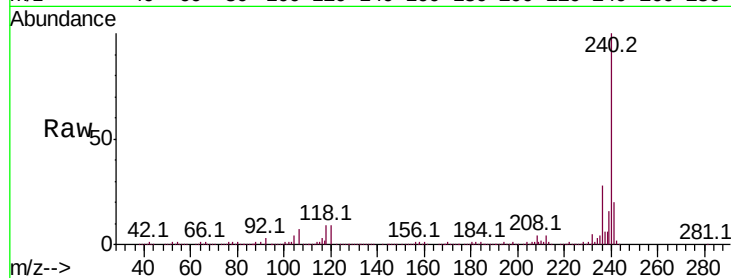
240 100

120 9.5 9.5 14.3#

236 27.6 20.7 31.1

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#77

Pyrene

Concen: 1.078 ng

RT: 13.01 min Scan# 1814

Delta R.T. -0.01 min

Lab File: BF108018.D

Acq: 8 Aug 2018 14:38

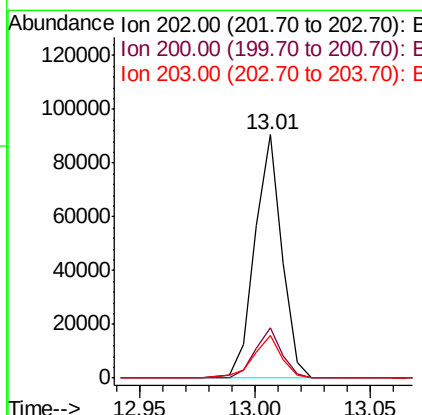
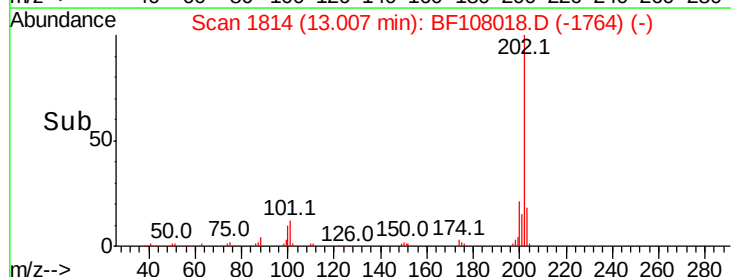
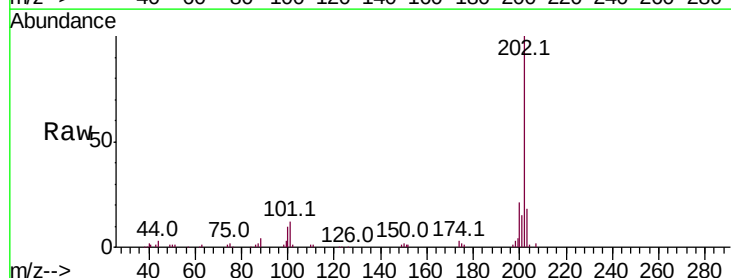
Tgt Ion:202 Resp: 74346

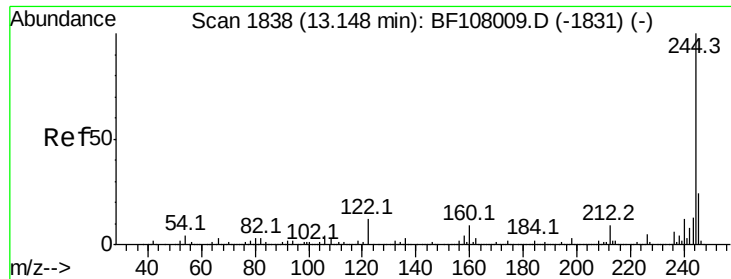
Ion Ratio Lower Upper

202 100

200 20.9 17.4 26.2

203 17.6 14.3 21.5





#78

Terphenyl-d14

Concen: 86.122 ng

RT: 13.15 min Scan# 1839

Delta R.T. 0.01 min

Lab File: BF108018.D

Acq: 8 Aug 2018 14:38

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion:244 Resp: 3690352

Ion Ratio Lower Upper

244 100

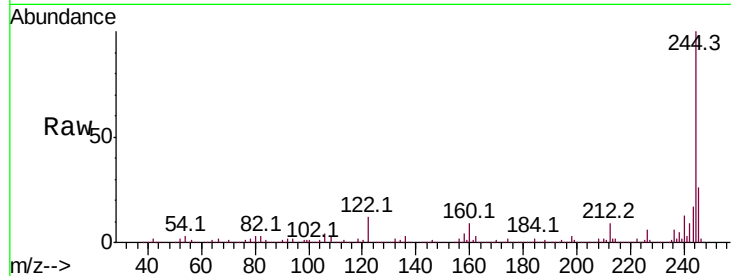
212 9.4 5.4 8.0#

122 12.2 11.0 16.4

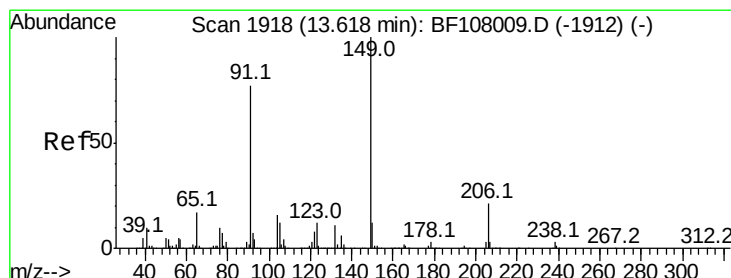
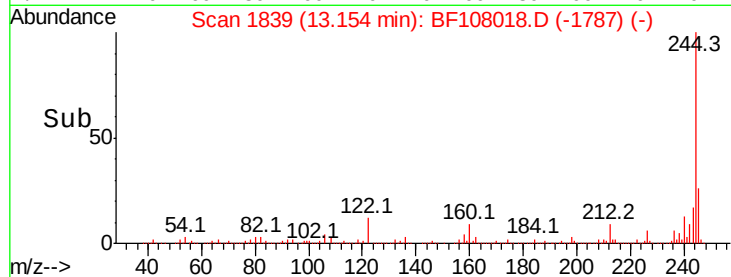
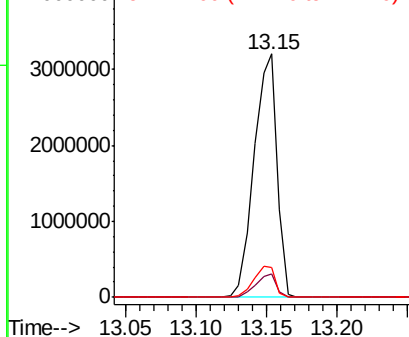
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Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#79

Butylbenzylphthalate

Concen: 0.717 ng

RT: 13.62 min Scan# 1918

Delta R.T. -0.00 min

Lab File: BF108018.D

Acq: 8 Aug 2018 14:38

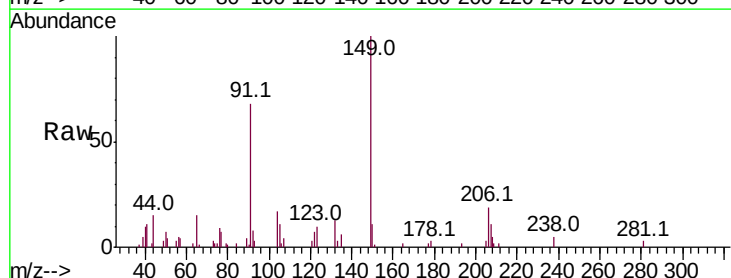
Tgt Ion:149 Resp: 19630

Ion Ratio Lower Upper

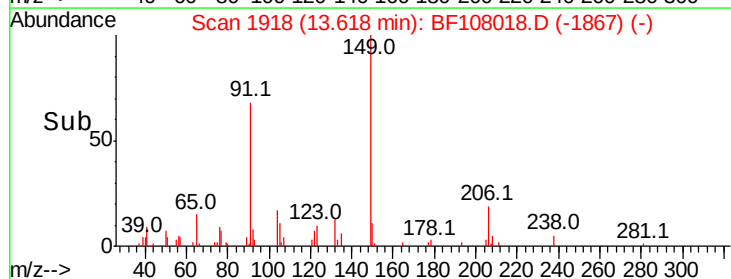
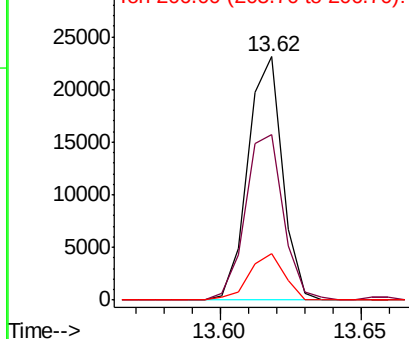
149 100

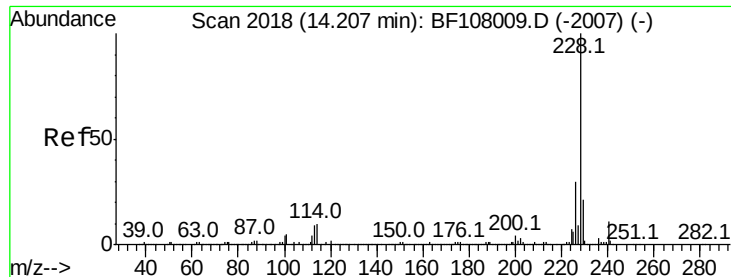
91 67.9 56.8 85.2

206 19.3 14.1 21.1



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 91.00 (90.70 to 91.70): BF1
Ion 206.00 (205.70 to 206.70): E





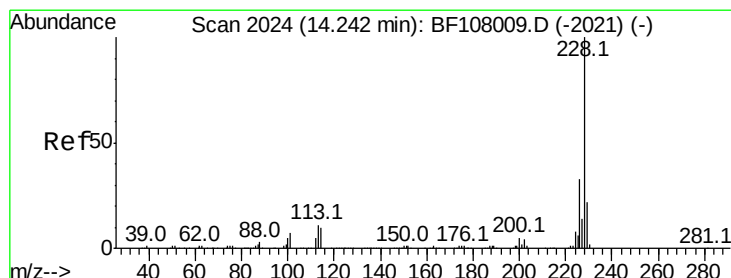
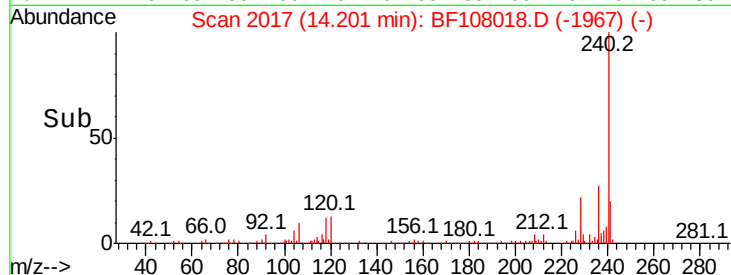
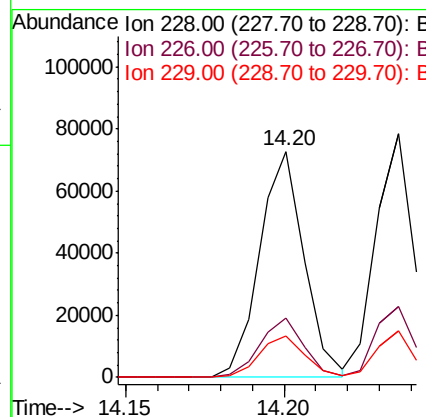
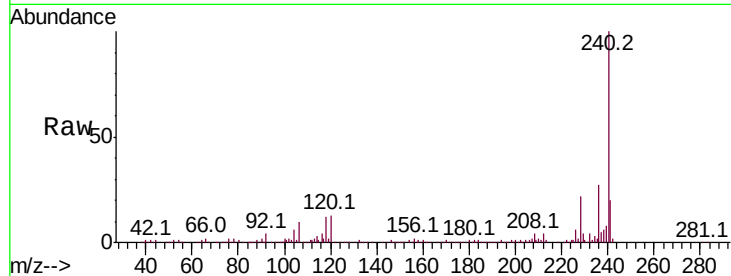
#80
Benzo(a)anthracene
Concen: 1.133 ng
RT: 14.20 min Scan# 2017
Delta R.T. -0.01 min
Lab File: BF108018.D
Acq: 8 Aug 2018 14:38

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

Tot Ion	Ratio	Lower	Upper
228	100		
226	26.4	22.6	33.8
229	18.3	15.8	23.6

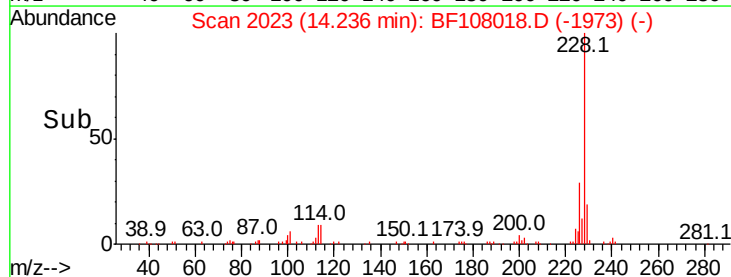
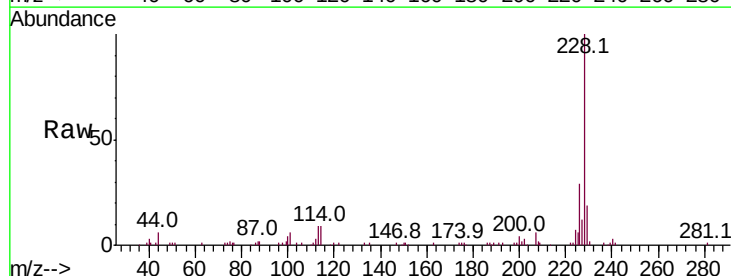
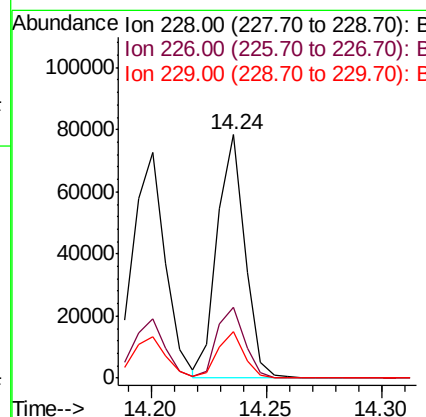
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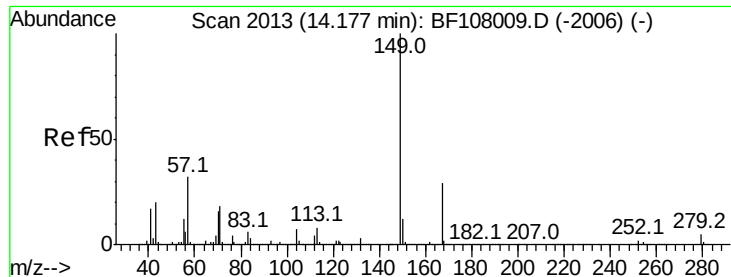
Sohil
8/9/2018 5:01:11 PM



#82
Chrysene
Concen: 1.134 ng
RT: 14.24 min Scan# 2023
Delta R.T. -0.01 min
Lab File: BF108018.D
Acq: 8 Aug 2018 14:38

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.1	25.0	37.6
229	19.1	16.2	24.4





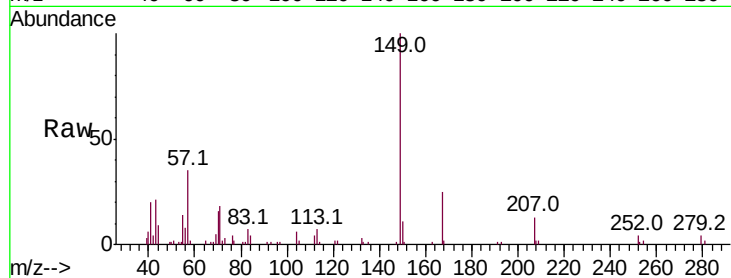
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 0.779 ng
 RT: 14.17 min Scan# 2012
 Delta R.T. -0.01 min
 Lab File: BF108018.D
 Acq: 8 Aug 2018 14:38

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

Tot Ion	Ratio	Resp	Lower	Upper
149	100	28878		
167	25.2	21.3	31.9	
279	4.5	3.0	4.4#	

Manual Integrations
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Sohil
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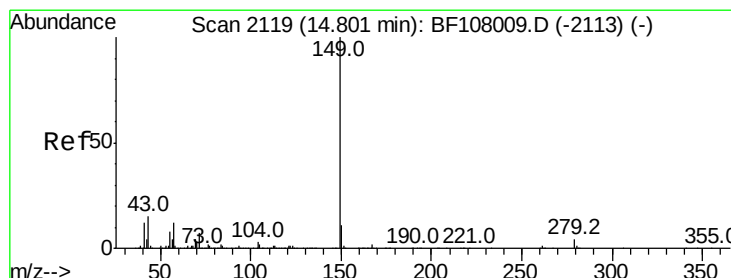
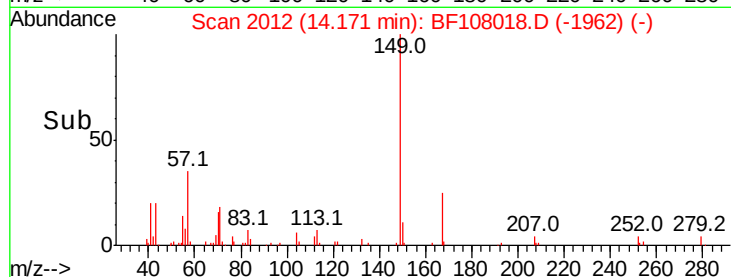
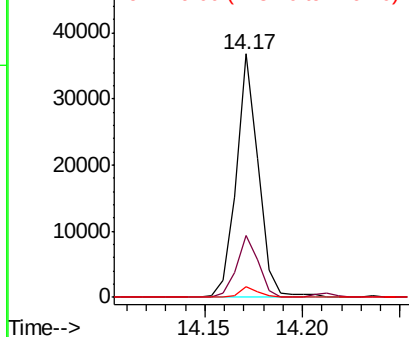


Abundance

Ion 149.00 (148.70 to 149.70): E

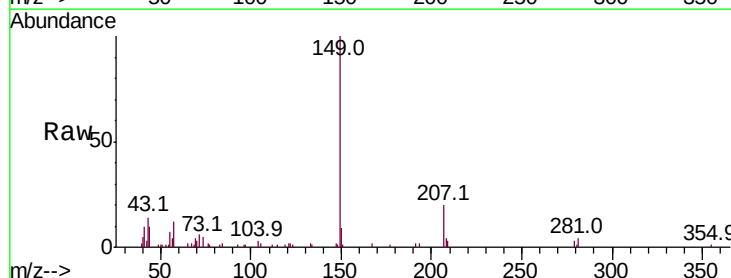
Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#84
 Di-n-octyl phthalate
 Concen: 0.656 ng
 RT: 14.80 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: BF108018.D
 Acq: 8 Aug 2018 14:38

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	37093		
167	1.8	1.2	1.8#	
43	18.5	8.4	12.6#	

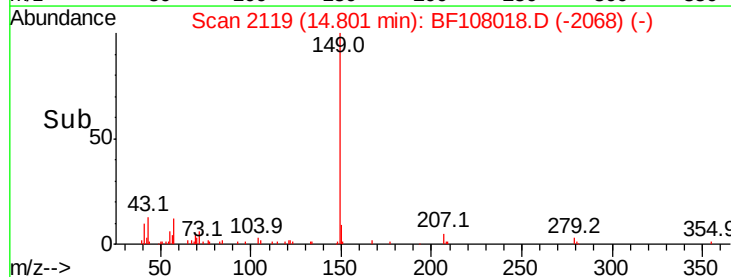
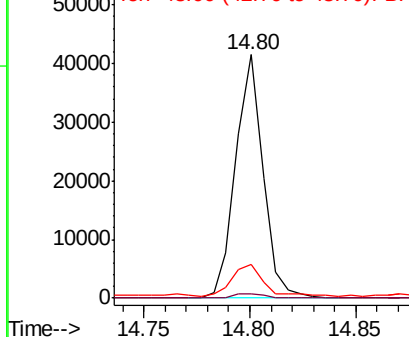


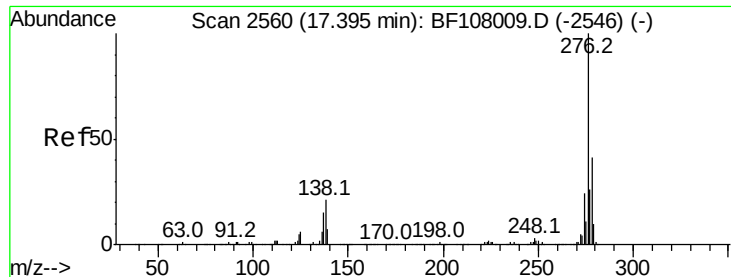
Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF1





#85

Indeno(1,2,3-cd)pyrene

Concen: 0.825 ng

RT: 17.37 min Scan# 2556

Delta R.T. -0.02 min

Lab File: BF108018.D

Acq: 8 Aug 2018 14:38

Instrument :

BNA_F

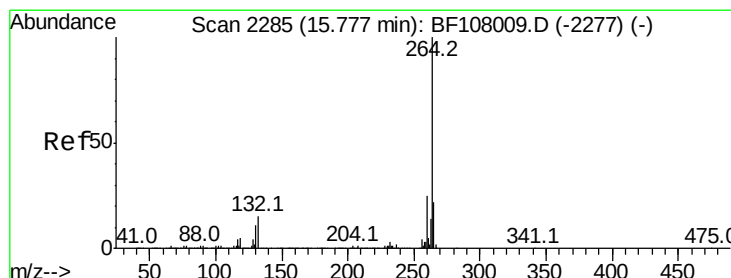
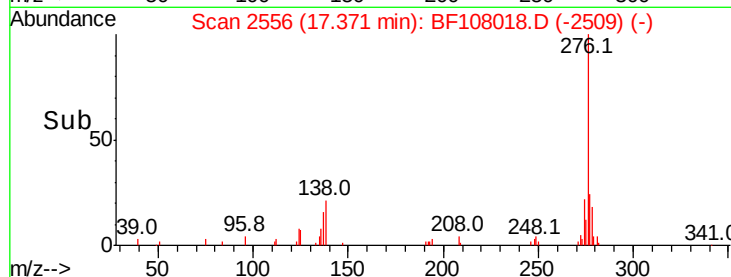
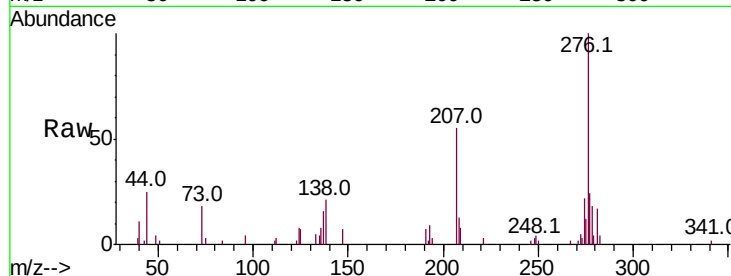
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion:	276	Resp:	40981
Ion Ratio	Lower	Upper	
276	100		
138	25.1	25.0	37.6
277	24.2	20.1	30.1

Manual Integrations
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#86

Perylene-d12

Concen: 20.000 ng

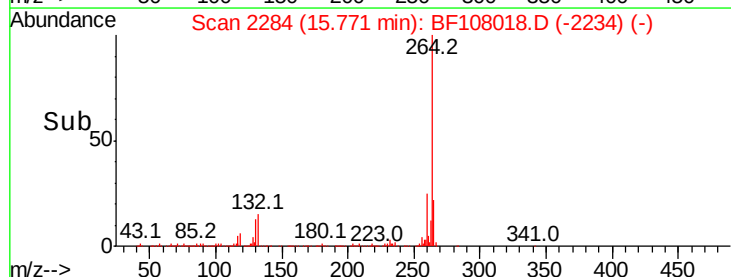
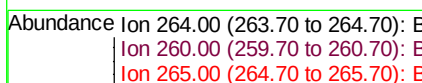
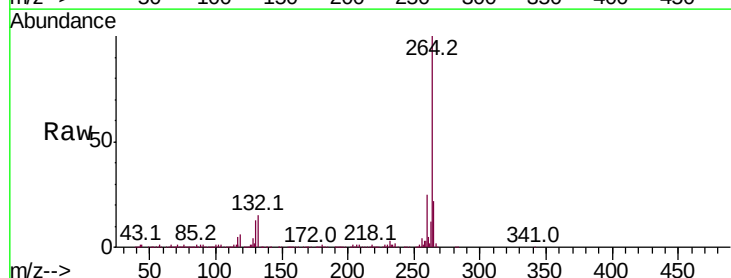
RT: 15.77 min Scan# 2284

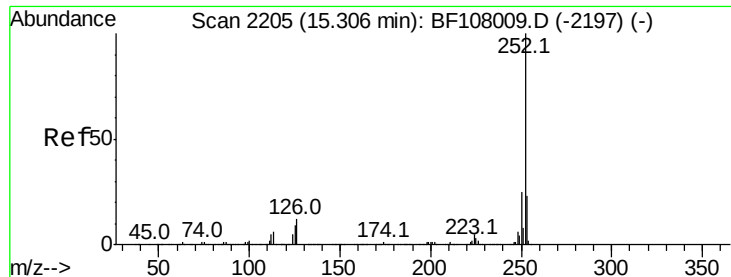
Delta R.T. -0.01 min

Lab File: BF108018.D

Acq: 8 Aug 2018 14:38

Tgt Ion:	264	Resp:	931303
Ion Ratio	Lower	Upper	
264	100		
260	25.2	19.2	28.8
265	21.8	17.5	26.3





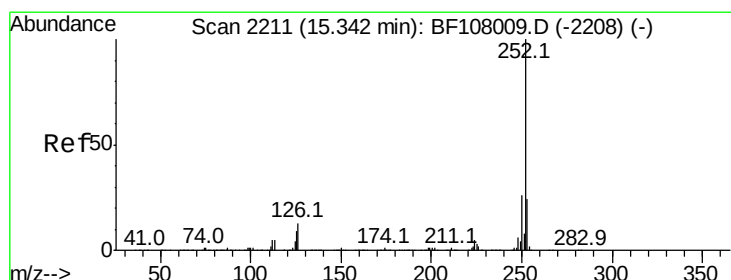
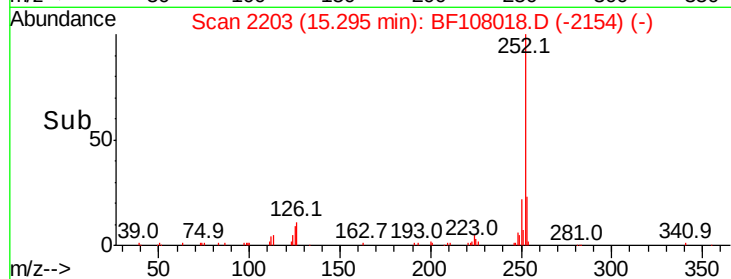
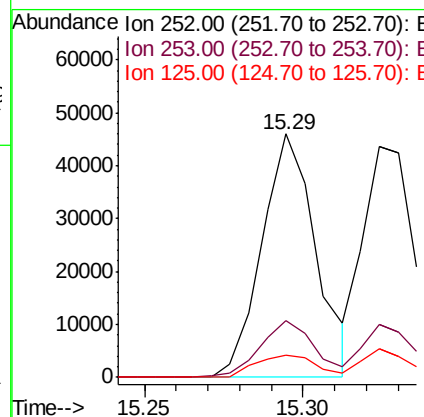
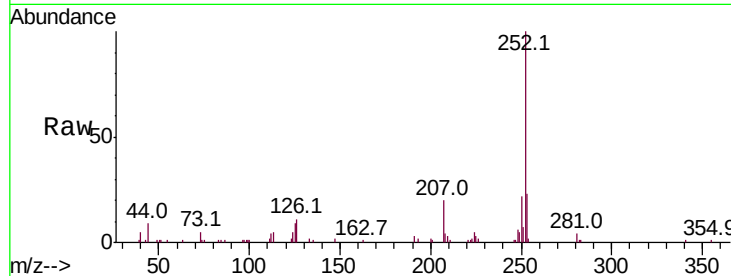
#87
Benzo(b)fluoranthene
Concen: 0.979 ng
RT: 15.29 min Scan# 2203
Delta R.T. -0.01 min
Lab File: BF108018.D
Acq: 8 Aug 2018 14:38

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

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.0	25.6
125	9.1	9.0	13.6

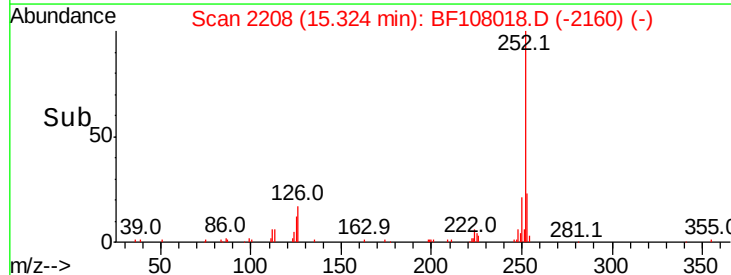
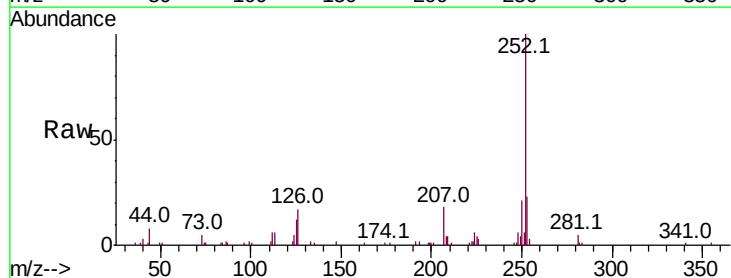
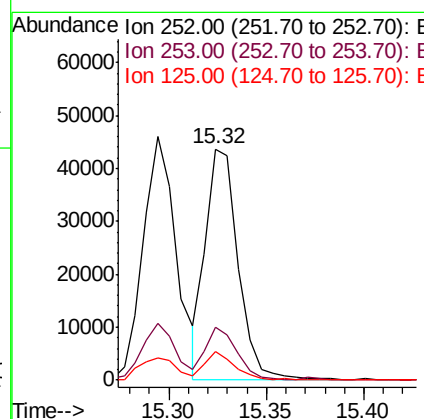
Manual Integrations
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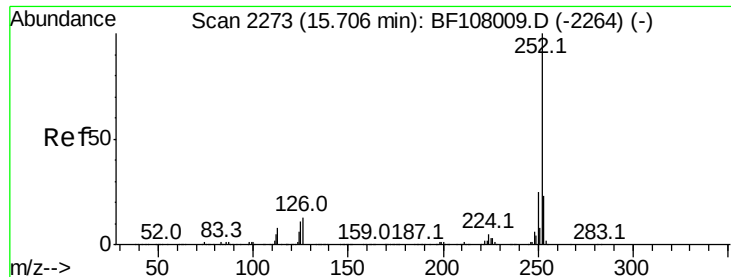
Sohil
8/9/2018 5:01:11 PM



#88
Benzo(k)fluoranthene
Concen: 0.996 ng
RT: 15.32 min Scan# 2208
Delta R.T. -0.02 min
Lab File: BF108018.D
Acq: 8 Aug 2018 14:38

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.9	26.9
125	12.5	10.2	15.2





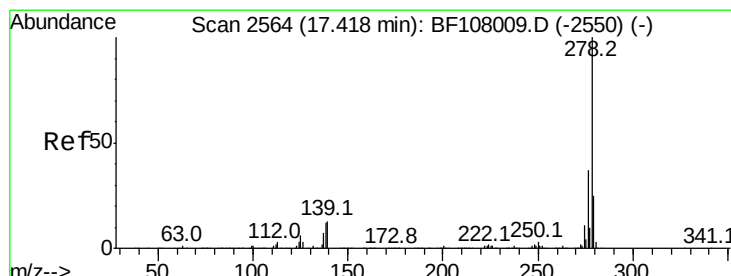
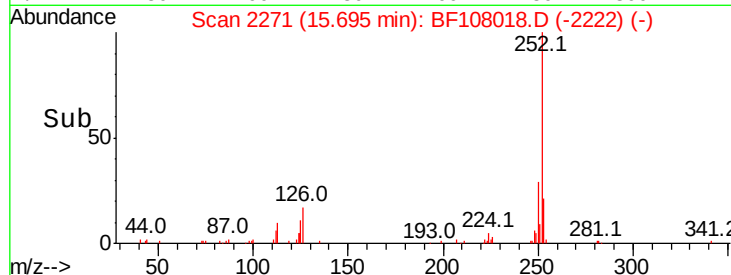
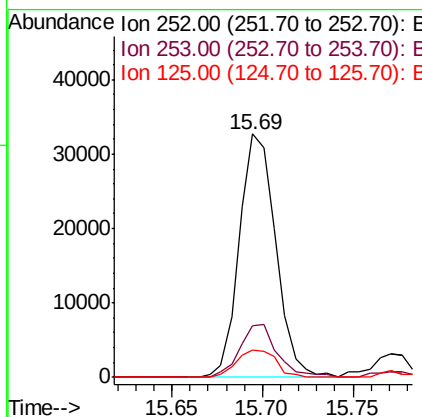
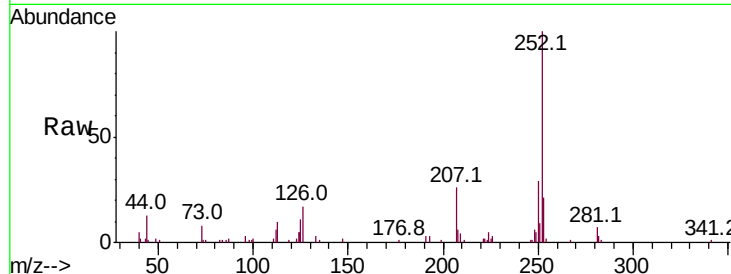
#89
Benzo(a)pyrene
Concen: 0.917 ng
RT: 15.69 min Scan# 2271
Delta R.T. -0.01 min
Lab File: BF108018.D
Acq: 8 Aug 2018 14:38

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

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.1	25.7
125	11.0	9.8	14.6

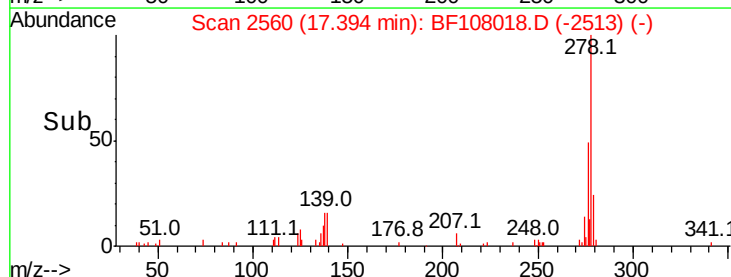
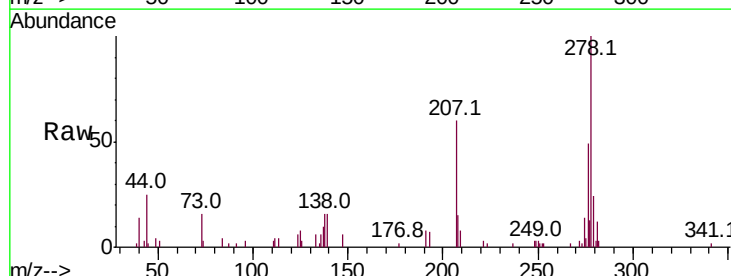
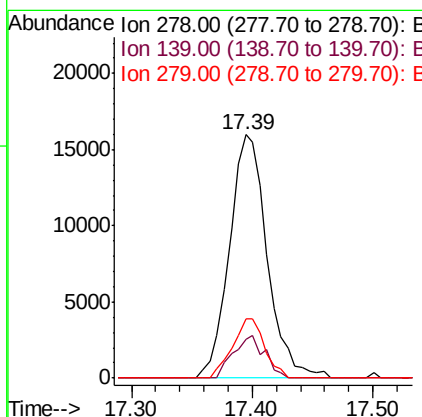
Manual Integrations
APPROVED

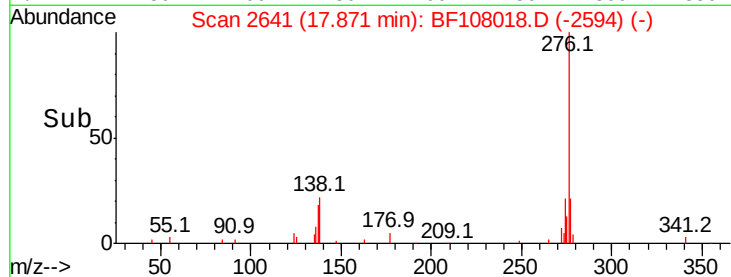
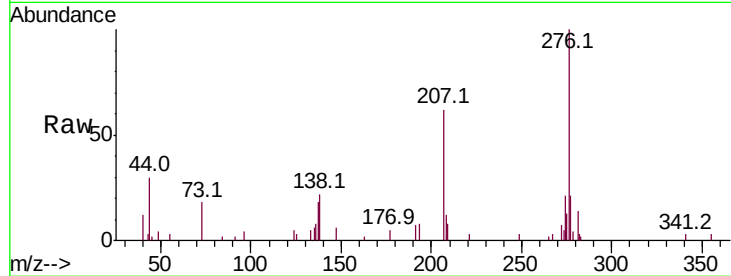
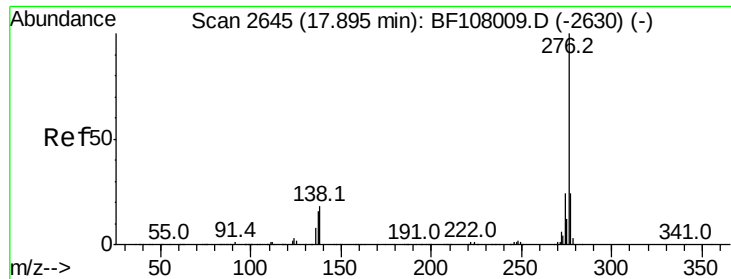
Sohil
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#90
Dibenzo(a,h)anthracene
Concen: 0.843 ng
RT: 17.39 min Scan# 2560
Delta R.T. -0.02 min
Lab File: BF108018.D
Acq: 8 Aug 2018 14:38

Tgt Ion	Ratio	Lower	Upper
278	100		
139	15.8	15.9	23.9#
279	24.1	19.0	28.4





#91
 Benzo(a,h,i)perylene
 Concen: 0.834 ng
 RT: 17.87 min Scan# 2641
 Delta R.T. -0.02 min
 Lab File: BF108018.D
 Acq: 8 Aug 2018 14:38

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

Tot Ion	Ratio	Lower	Upper
276	100		
277	21.5	17.9	26.9
138	22.0	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 8/9/2018 5:01:11 PM

