

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF102318\
 Data File : BF110083.D
 Acq On : 23 Oct 2018 17:52
 Operator : JU/SJ
 Sample : J5164-01
 Misc : LOD 2PPM
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018

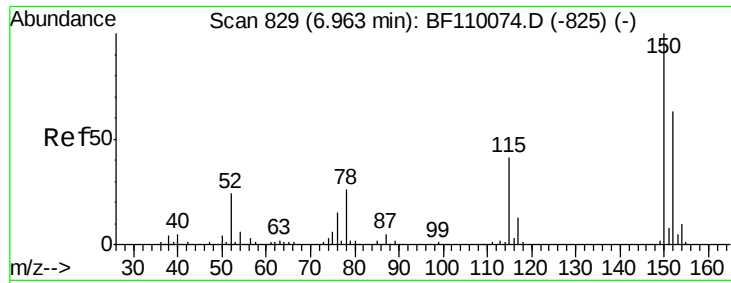
Manual Integrations
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Quant Time: Oct 24 04:35:00 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 23 15:06:18 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	186116	20.00	ng	-0.02
21) Naphthalene-d8	8.25	136	788522	20.00	ng	-0.02
39) Acenaphthene-d10	10.01	164	386451	20.00	ng	-0.02
64) Phenanthrene-d10	11.50	188	754528	20.00	ng	-0.02
76) Chrysene-d12	14.14	240	636988	20.00	ng	-0.02
87) Perylene-d12	15.67	264	559754	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.58	112	1446883	126.60	ng	-0.02
7) Phenol-d6	6.59	99	1847458	126.38	ng	-0.02
23) Nitrobenzene-d5	7.53	82	1095475	82.40	ng	-0.02
42) 2,4,6-Tribromophenol	10.80	330	486914	127.20	ng	-0.01
45) 2-Fluorobiphenyl	9.33	172	1952748	79.35	ng	-0.01
79) Terphenyl-d14	13.09	244	2052335	67.01	ng	-0.01
Target Compounds						
17) 2-Methylphenol	7.20	107	22012	2.096	ng	Qvalue # 82
19) n-Nitroso-di-n-propylamine	7.36	70	20324	2.167	ng	96
20) 3+4-Methylphenols	7.36	107	29033	2.139	ng	93
22) Acetophenone	7.36	105	42047	2.314	ng	# 95
25) Isophorone	7.77	82	54320	2.397	ng	96
26) 2-Nitrophenol	7.86	139	12015	1.840	ng	94
27) 2,4-Dimethylphenol	7.89	122	23069	2.130	ng	97
28) bis(2-Chloroethoxy)methane	7.99	93	34693	2.254	ng	100
29) 2,4-Dichlorophenol	8.10	162	21580	1.973	ng	99
30) 1,2,4-Trichlorobenzene	8.19	180	25376	2.071	ng	95
36) 4-Chloro-3-methylphenol	8.78	107	23773	2.010	ng	91
43) 2,4,6-Trichlorophenol	9.23	196	15201	1.957	ng	97
44) 2,4,5-Trichlorophenol	9.27	196	15924	1.940	ng	95
57) 2,4-Dinitrotoluene	10.19	165	16104	2.063	ng	# 87
61) 4-Chlorophenyl-phenylether	10.54	204	30820	2.289	ng	91
62) 4-Nitroaniline	10.56	138	13775	1.895	ng	92
77) Benzidine	12.83	184	16241m	0.606	ng	
82) 3,3'-Dichlorobenzidine	14.09	252	20145	1.531	ng	96

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



#1

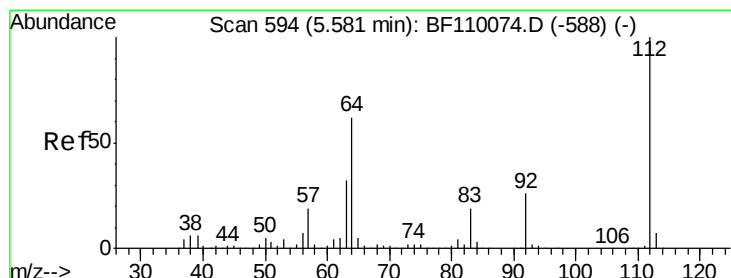
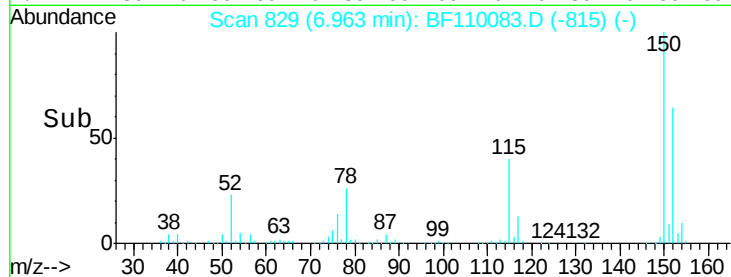
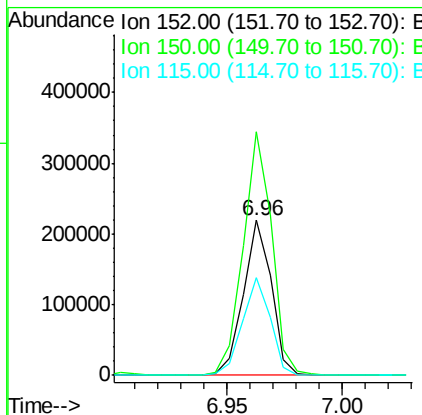
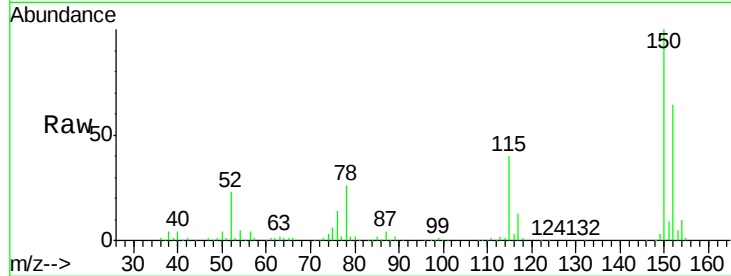
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 829
Delta R.T. -0.02 min
Lab File: BF110083.D
Acq: 23 Oct 2018 17:52

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018

Tgt Ion	Ratio	Lower	Upper
152	100		
150	157.1	122.7	184.1
115	62.8	49.1	73.7

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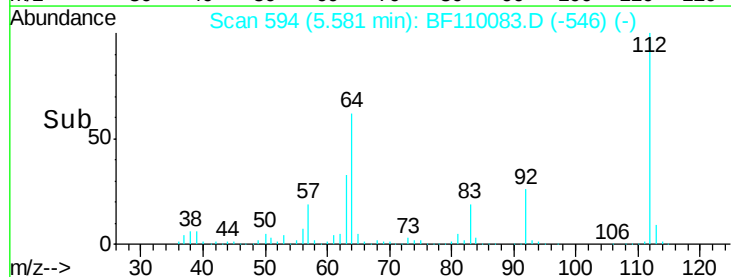
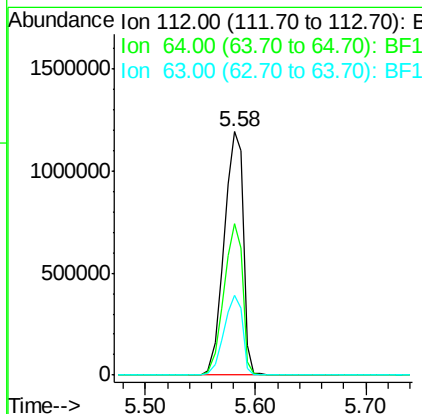
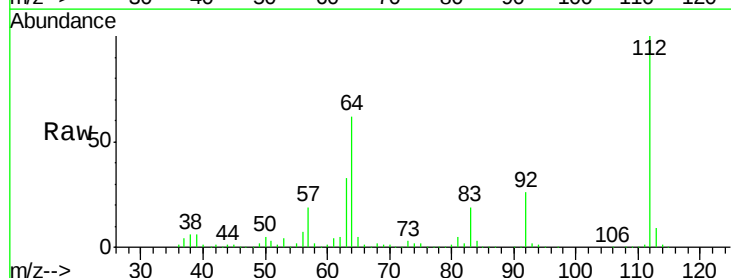
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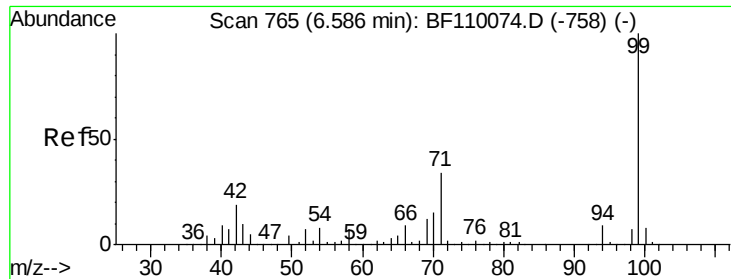


#5

2-Fluorophenol
Concen: 126.597 ng
RT: 5.58 min Scan# 594
Delta R.T. -0.02 min
Lab File: BF110083.D
Acq: 23 Oct 2018 17:52

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.0	44.1	66.1
63	32.5	23.7	35.5





#7

Phenol-d6

Concen: 126.377 ng

RT: 6.59 min Scan# 765

Delta R.T. -0.02 min

Lab File: BF110083.D

Acq: 23 Oct 2018 17:52

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018

Tgt Ion: 99 Resp: 1847458

Ion Ratio Lower Upper

99 100

42 20.0 15.8 23.6

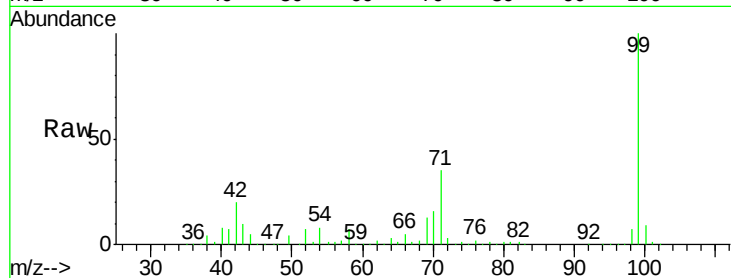
71 35.3 28.0 42.0

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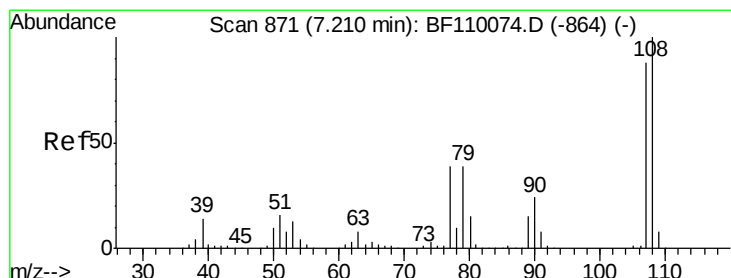
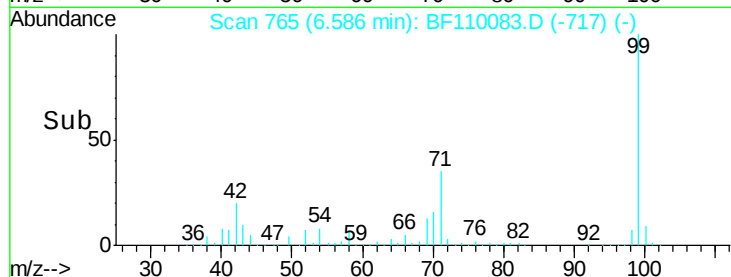
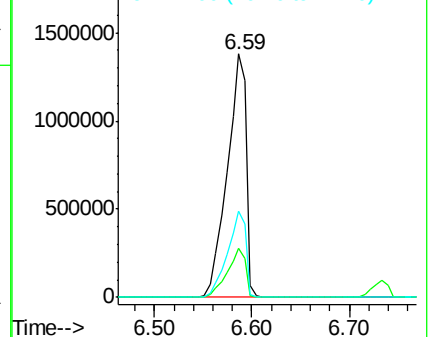
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Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#17

2-Methylphenol

Concen: 2.096 ng

RT: 7.20 min Scan# 869

Delta R.T. -0.02 min

Lab File: BF110083.D

Acq: 23 Oct 2018 17:52

Tgt Ion: 107 Resp: 22012

Ion Ratio Lower Upper

107 100

108 122.2 92.6 138.8

77 50.3 59.4 89.2#

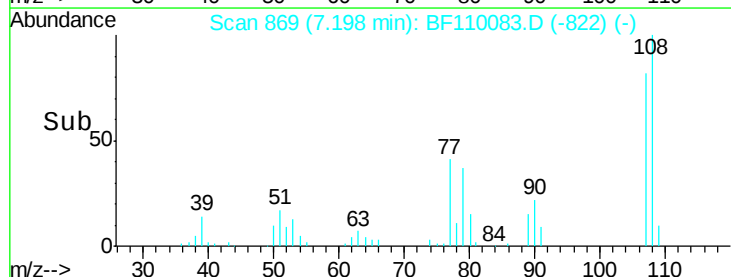
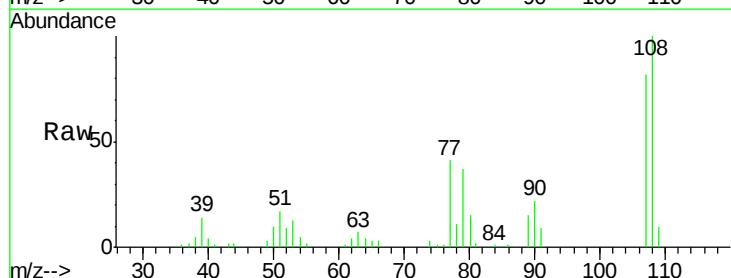
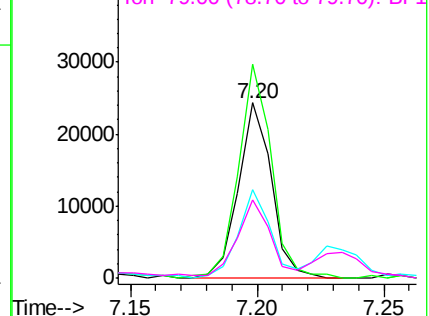
79 44.7 54.0 81.0#

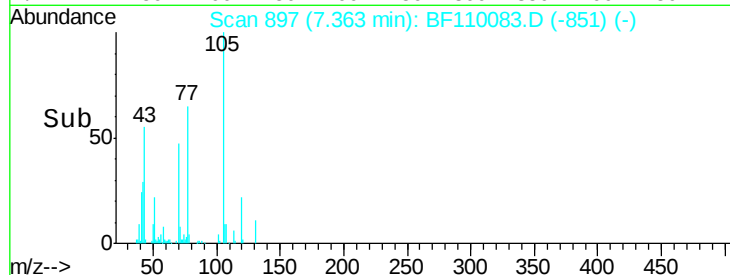
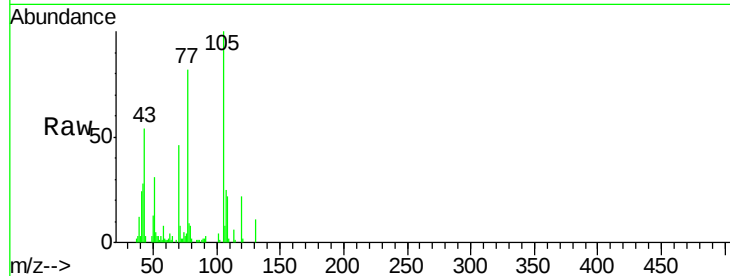
Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF1

Ion 79.00 (78.70 to 79.70): BF1





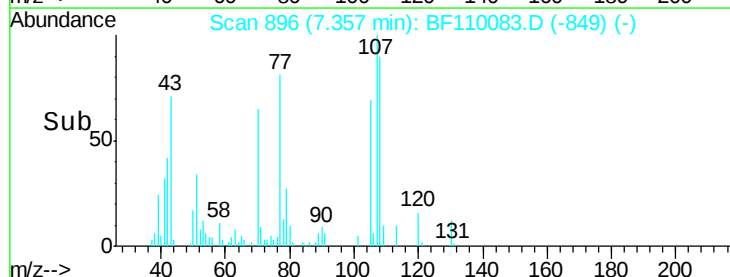
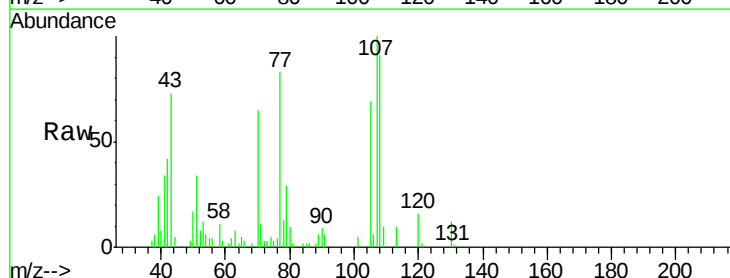
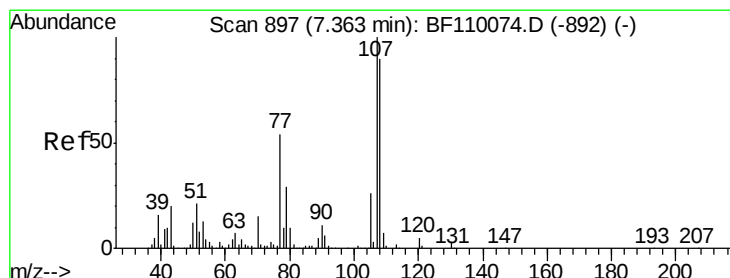
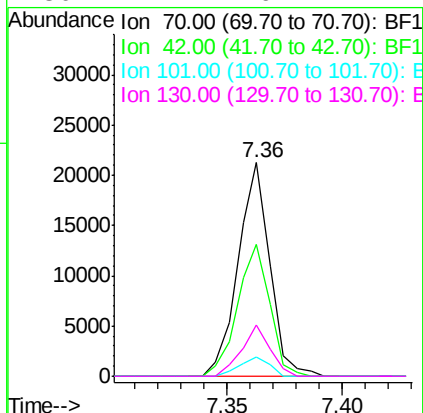
#19
n-Nitroso-di-n-propylamine
Concen: 2.167 ng
RT: 7.36 min Scan# 897
Delta R.T. -0.03 min
Lab File: BF110083.D
Acq: 23 Oct 2018 17:52

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018

Tgt Ion	Ratio	Lower	Upper
70	100		
42	61.6	47.4	71.2
101	9.2	7.3	10.9
130	24.1	16.2	24.2

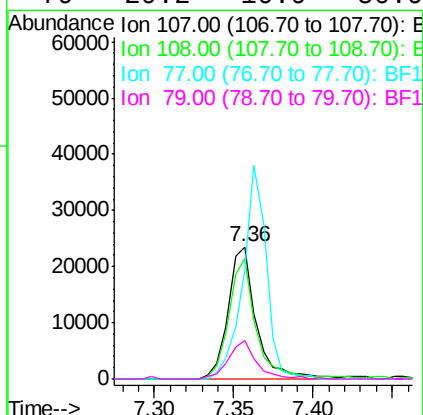
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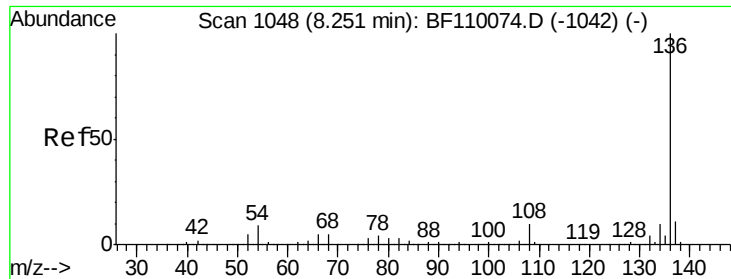
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#20
3+4-Methylphenols
Concen: 2.139 ng
RT: 7.36 min Scan# 896
Delta R.T. -0.02 min
Lab File: BF110083.D
Acq: 23 Oct 2018 17:52

Tgt Ion	Ratio	Lower	Upper
107	100		
108	91.4	71.4	111.4
77	82.7	47.3	87.3
79	29.2	10.9	50.9





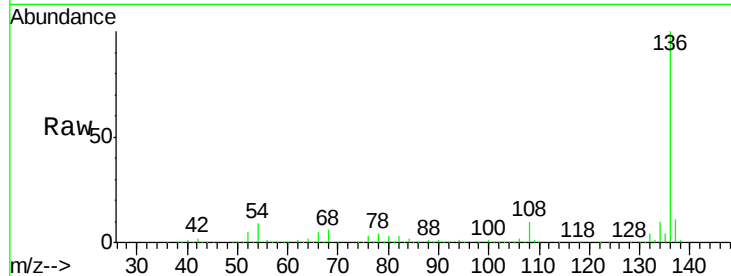
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.25 min Scan# 1047
Delta R.T. -0.02 min
Lab File: BF110083.D
Acq: 23 Oct 2018 17:52

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	788522		
137	11.3	8.8	13.2	
54	8.5	5.4	8.2#	
68	5.7	4.2	6.2	

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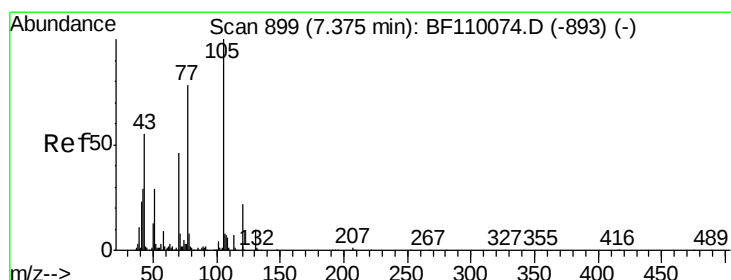
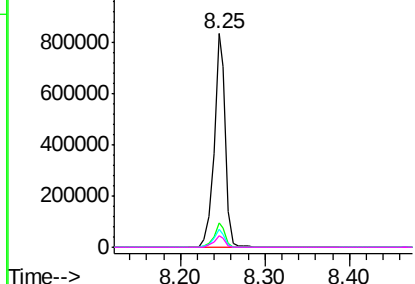
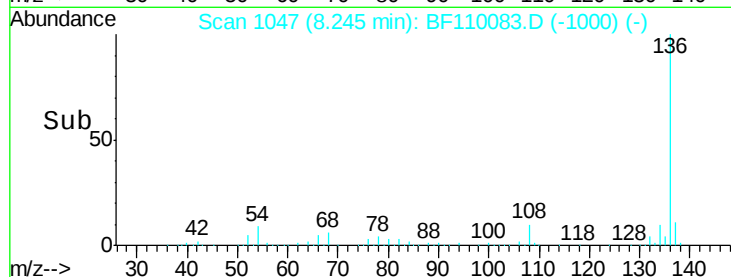
Abundance

Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

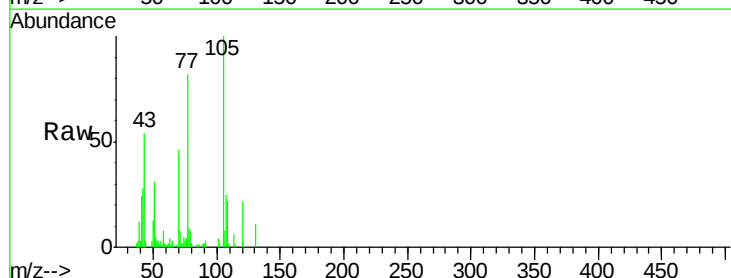
Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#22
Acetophenone
Concen: 2.314 ng
RT: 7.36 min Scan# 897
Delta R.T. -0.03 min
Lab File: BF110083.D
Acq: 23 Oct 2018 17:52

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	42047		
71	8.2	5.2	7.8#	
51	31.1	21.8	32.8	
120	21.9	17.0	25.4	



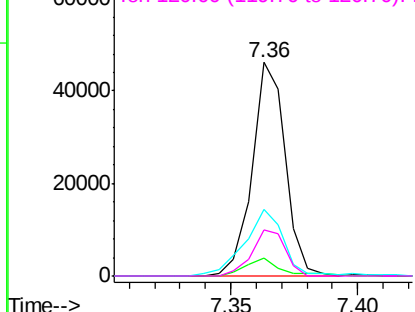
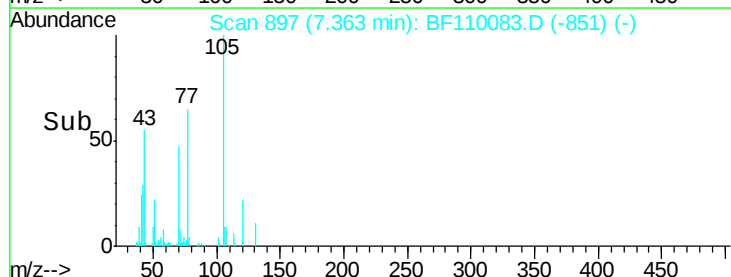
Abundance

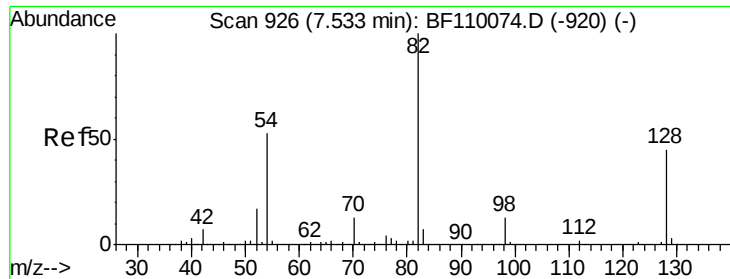
Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF1

Ion 51.00 (50.70 to 51.70): BF1

Ion 120.00 (119.70 to 120.70): E





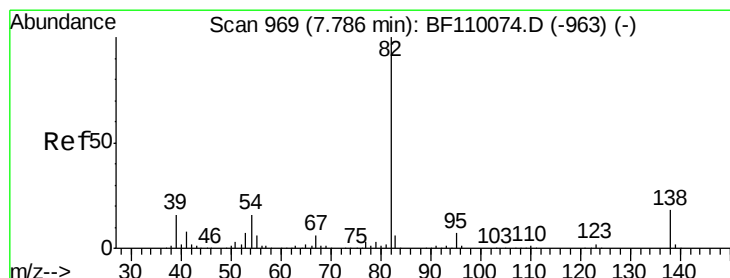
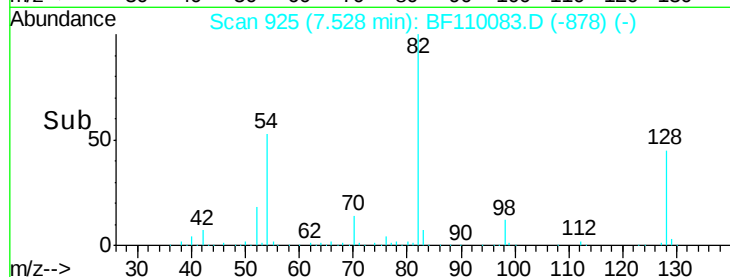
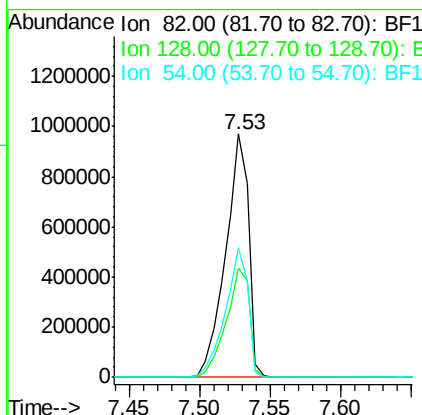
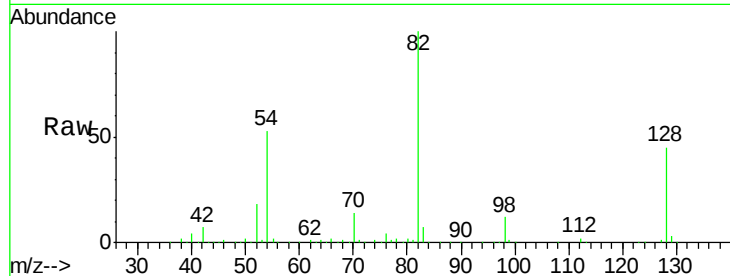
#23
 Nitrobenzene-d5
 Concen: 82.402 ng
 RT: 7.53 min Scan# 925
 Delta R.T. -0.02 min
 Lab File: BF110083.D
 Acq: 23 Oct 2018 17:52

Instrument :
 BNA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018

Tgt Ion: 82 Resp: 1095475
 Ion Ratio Lower Upper
 82 100
 128 44.7 34.2 51.2
 54 53.2 38.6 58.0

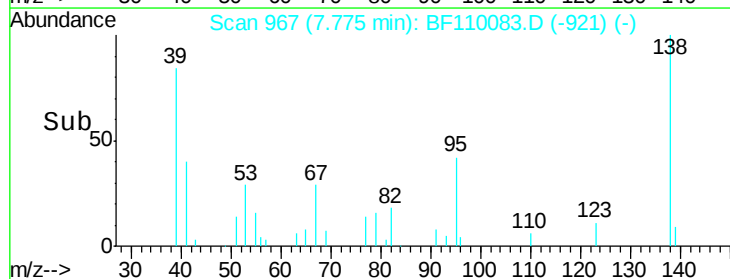
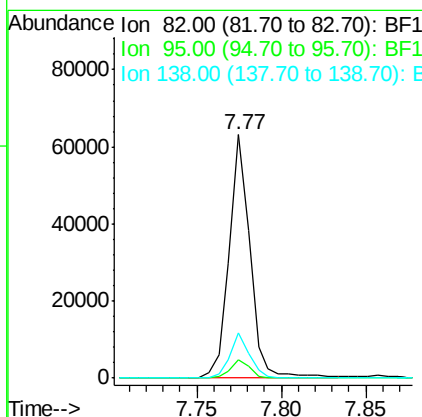
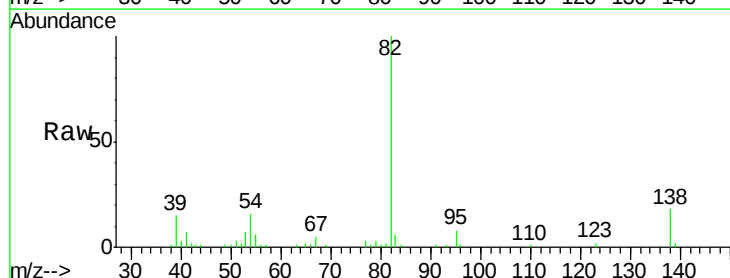
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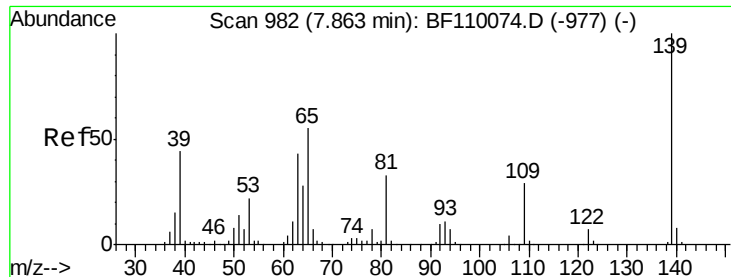
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#25
 Isophorone
 Concen: 2.397 ng
 RT: 7.77 min Scan# 967
 Delta R.T. -0.03 min
 Lab File: BF110083.D
 Acq: 23 Oct 2018 17:52

Tgt Ion: 82 Resp: 54320
 Ion Ratio Lower Upper
 82 100
 95 7.7 5.7 8.5
 138 18.5 13.2 19.8





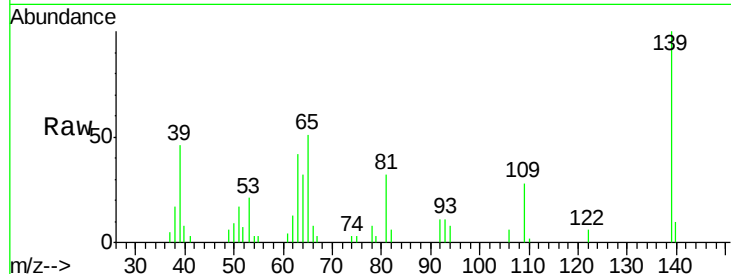
#26
2-Nitrophenol
Concen: 1.840 ng
RT: 7.86 min Scan# 981
Delta R.T. -0.02 min
Lab File: BF110083.D
Acq: 23 Oct 2018 17:52

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018

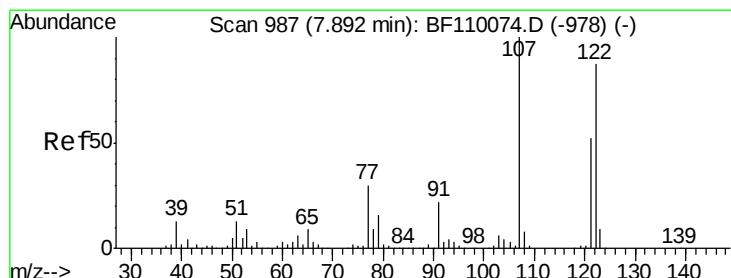
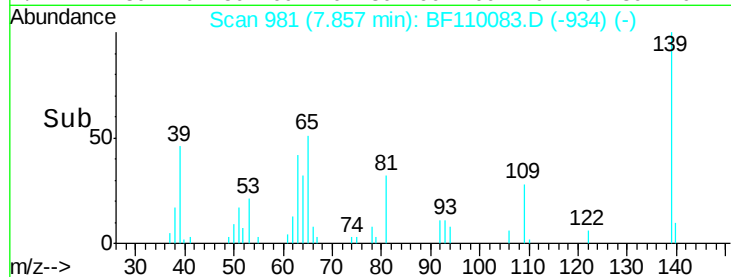
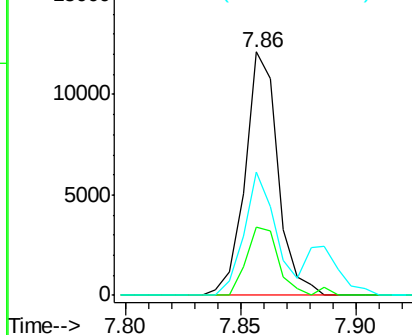
Tgt Ion	Ratio	Resp	Lower	Upper
139	100	12015		
109	28.2	25.0	37.6	
65	50.7	44.0	66.0	

Manual Integrations
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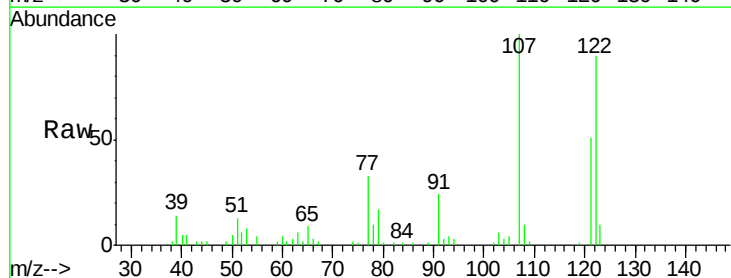


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

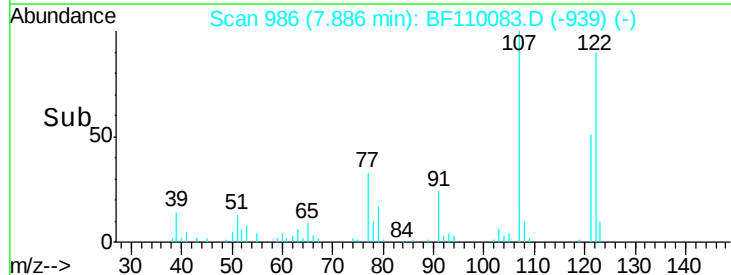
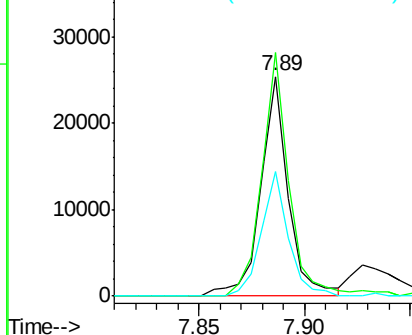


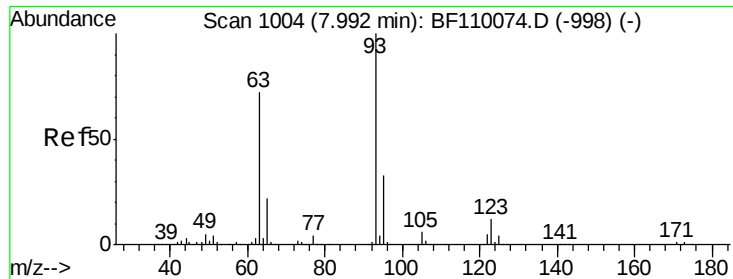
#27
2,4-Dimethylphenol
Concen: 2.130 ng
RT: 7.89 min Scan# 986
Delta R.T. -0.02 min
Lab File: BF110083.D
Acq: 23 Oct 2018 17:52

Tgt Ion	Ratio	Resp	Lower	Upper
122	100	23069		
107	110.9	92.5	138.7	
121	56.9	45.8	68.8	



Abundance Ion 122.00 (121.70 to 122.70): E
Ion 107.00 (106.70 to 107.70): E
Ion 121.00 (120.70 to 121.70): E





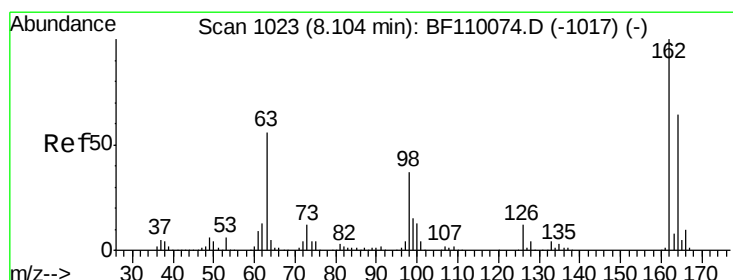
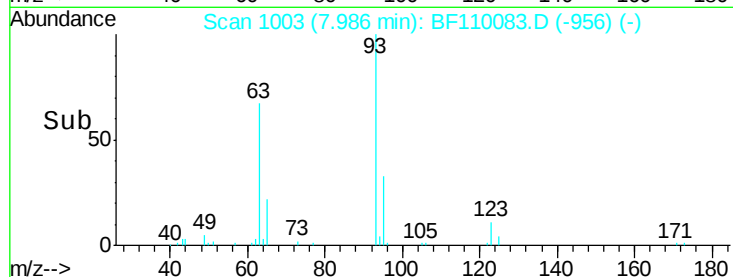
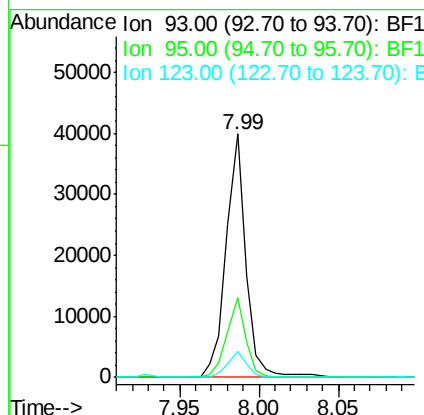
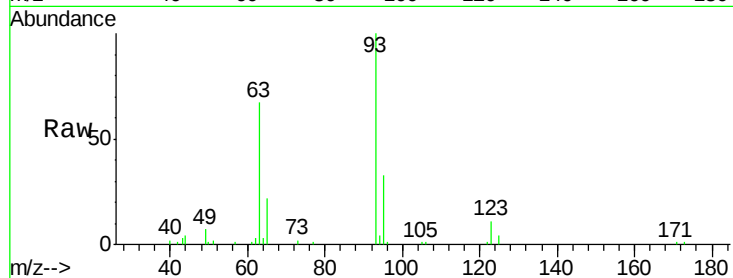
#28
bis(2-Chloroethoxy)methane
Concen: 2.254 ng
RT: 7.99 min Scan# 1003
Delta R.T. -0.02 min
Lab File: BF110083.D
Acq: 23 Oct 2018 17:52

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018

Tgt Ion	Ratio	Lower	Upper
93	100		
95	33.0	26.4	39.6
123	10.8	9.0	13.6

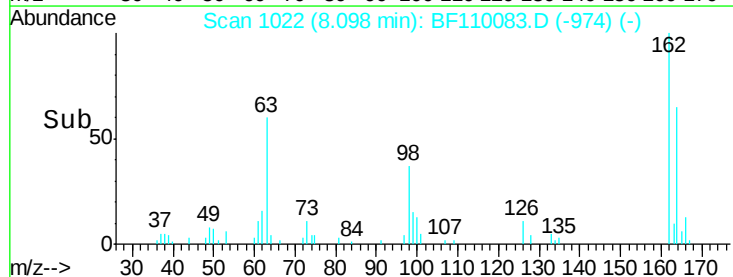
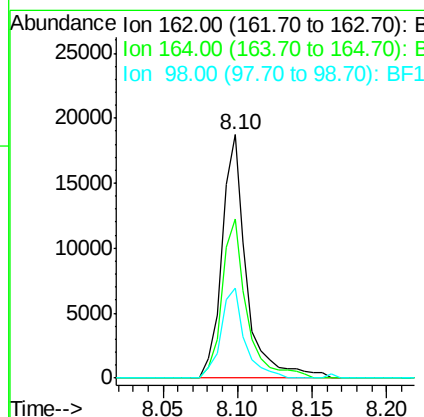
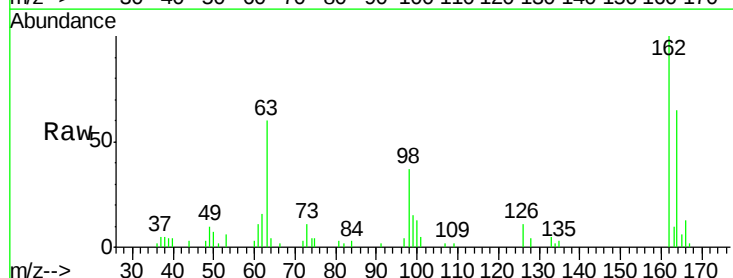
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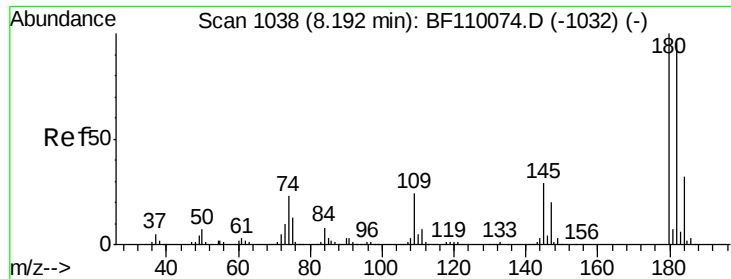
Sohil
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#29
2,4-Dichlorophenol
Concen: 1.973 ng
RT: 8.10 min Scan# 1022
Delta R.T. -0.02 min
Lab File: BF110083.D
Acq: 23 Oct 2018 17:52

Tgt Ion	Ratio	Lower	Upper
162	100		
164	65.4	44.6	84.6
98	37.0	17.4	57.4





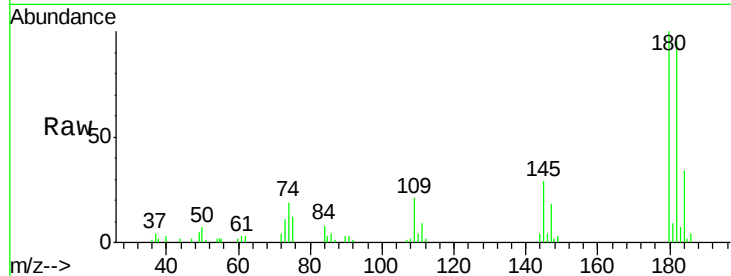
#30
 1,2,4-Trichlorobenzene
 Concen: 2.071 ng
 RT: 8.19 min Scan# 1037
 Delta R.T. -0.02 min
 Lab File: BF110083.D
 Acq: 23 Oct 2018 17:52

Instrument :
 BNA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018

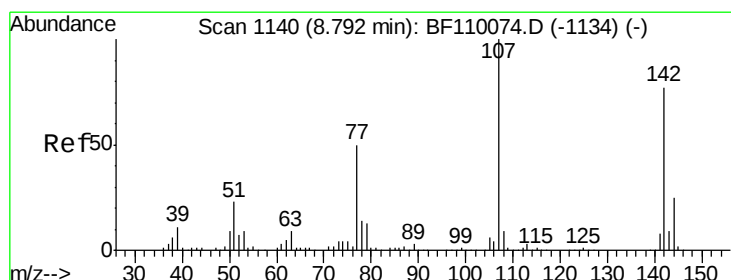
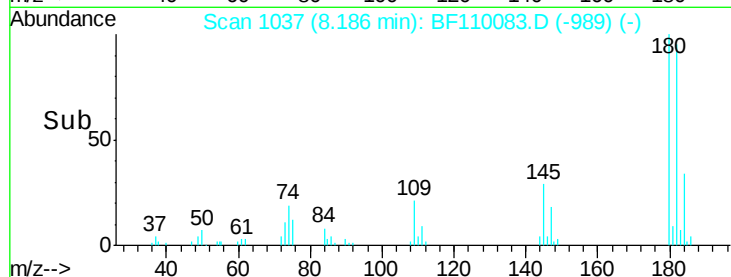
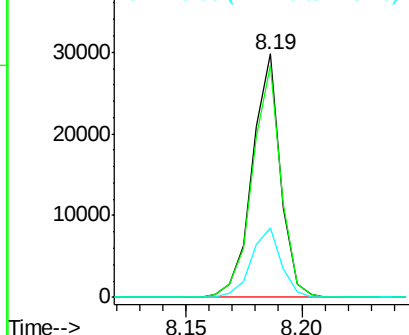
Tgt Ion	Ratio	Resp	Lower	Upper
180	100	25376		
182	95.4	80.3	120.5	
145	28.8	25.4	38.0	

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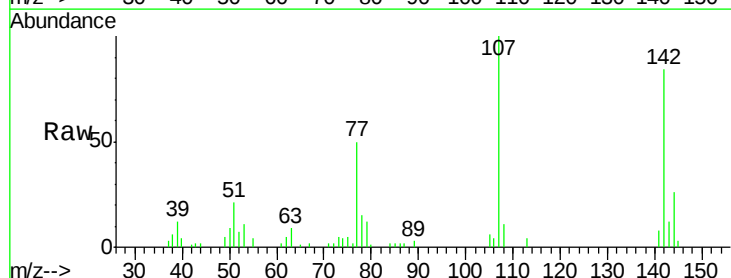


Abundance Ion 180.00 (179.70 to 180.70): E
 Ion 182.00 (181.70 to 182.70): E
 Ion 145.00 (144.70 to 145.70): E

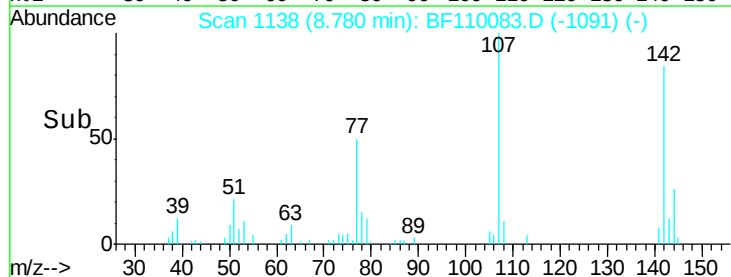
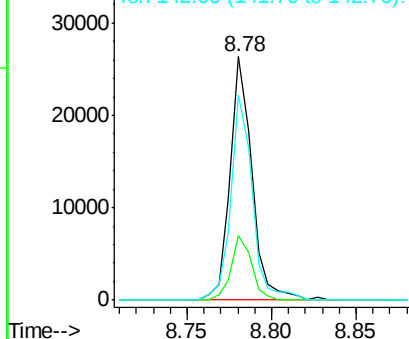


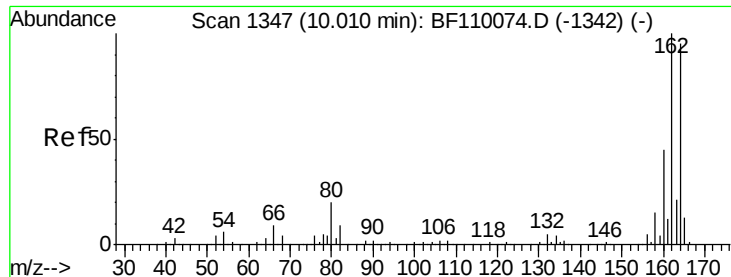
#36
 4-Chloro-3-methylphenol
 Concen: 2.010 ng
 RT: 8.78 min Scan# 1138
 Delta R.T. -0.02 min
 Lab File: BF110083.D
 Acq: 23 Oct 2018 17:52

Tgt Ion	Ratio	Resp	Lower	Upper
107	100	23773		
144	26.4	20.0	30.0	
142	84.2	59.7	89.5	



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





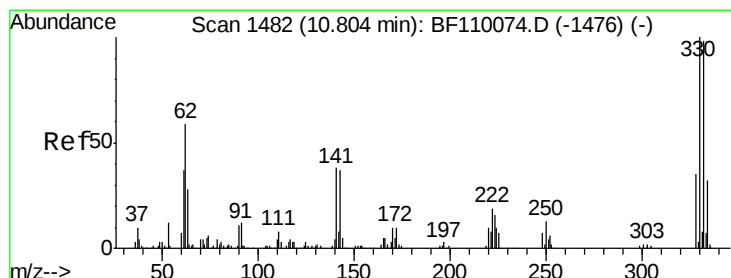
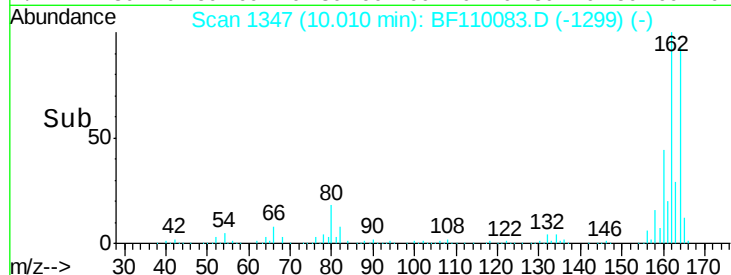
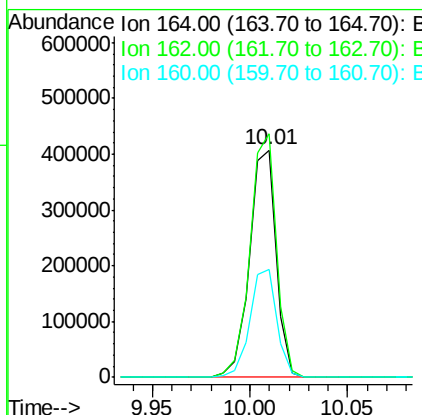
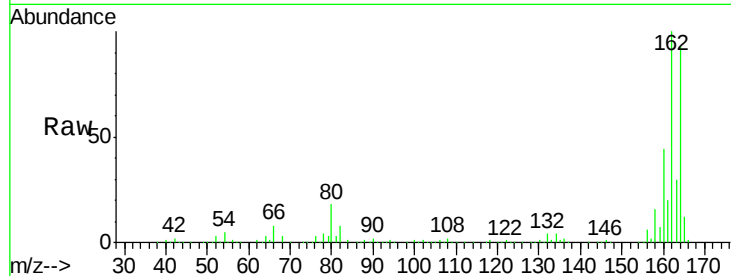
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.01 min Scan# 1347
Delta R.T. -0.02 min
Lab File: BF110083.D
Acq: 23 Oct 2018 17:52

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	386451		
162	107.0	83.0	124.6	
160	47.5	37.0	55.6	

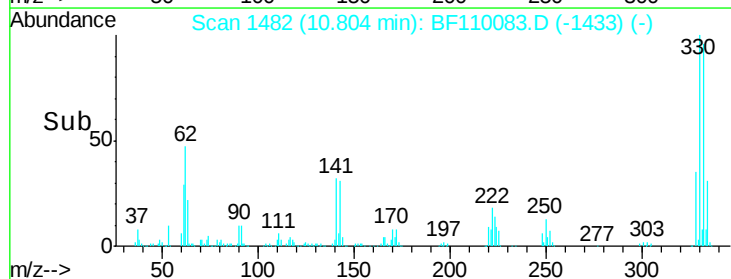
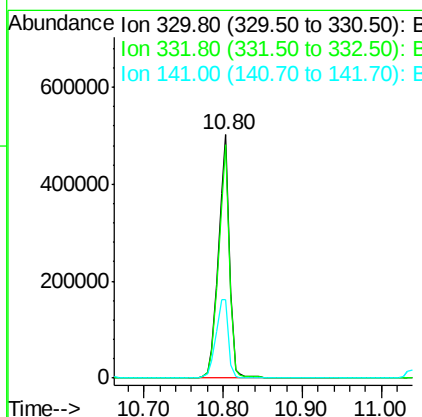
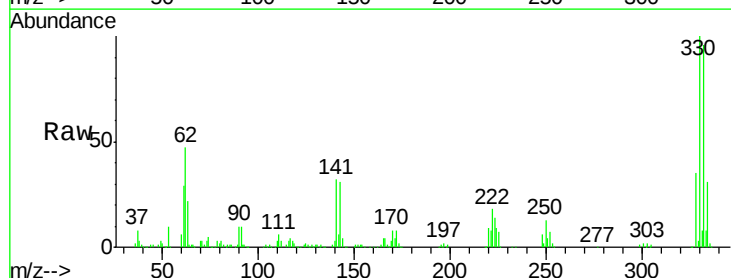
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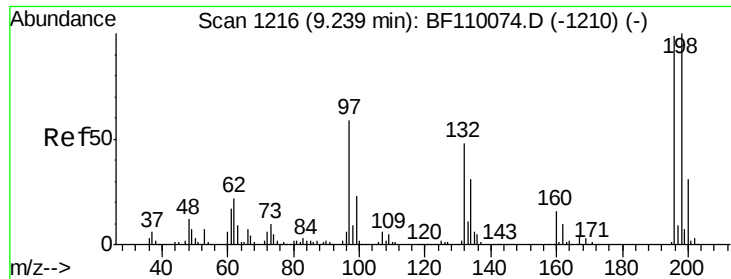
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#42
2,4,6-Tribromophenol
Concen: 127.196 ng
RT: 10.80 min Scan# 1482
Delta R.T. -0.01 min
Lab File: BF110083.D
Acq: 23 Oct 2018 17:52

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	486914		
332	94.5	77.1	115.7	
141	36.8	27.0	40.4	





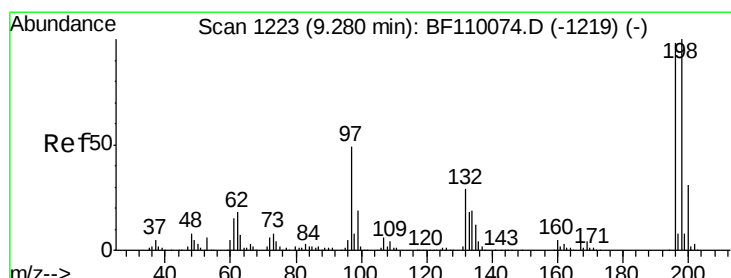
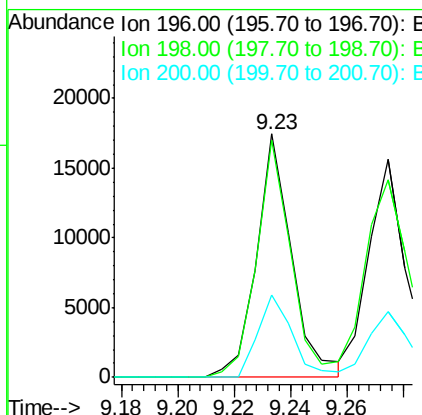
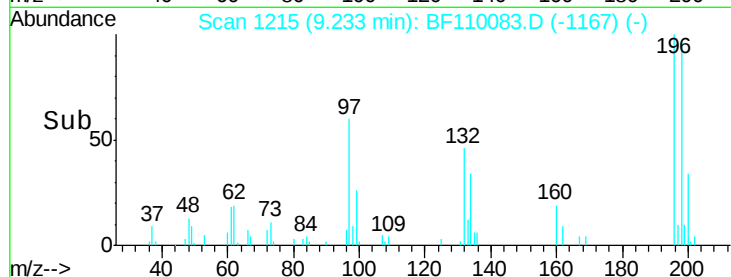
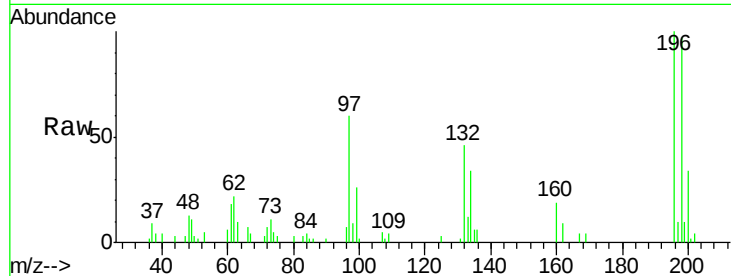
#43
 2,4,6-Trichlorophenol
 Concen: 1.957 ng
 RT: 9.23 min Scan# 1215
 Delta R.T. -0.02 min
 Lab File: BF110083.D
 Acq: 23 Oct 2018 17:52

Instrument :
 BNA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018

Tgt Ion:	196	Resp:	15201
Ion Ratio	Lower	Upper	
196	100		
198	97.3	76.2	114.4
200	33.6	24.4	36.6

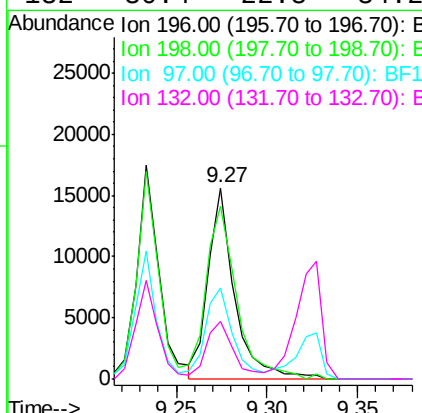
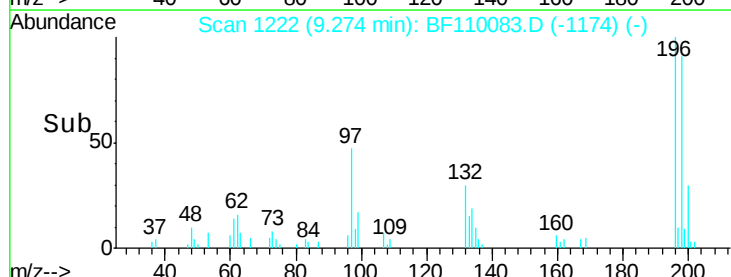
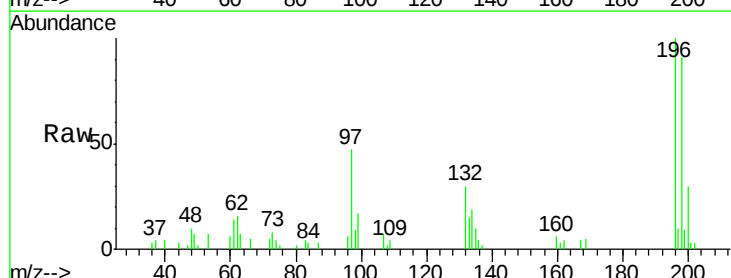
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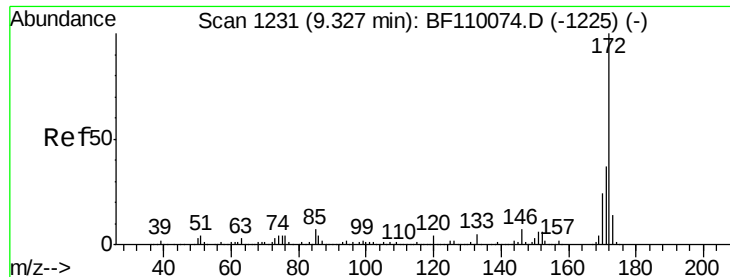
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#44
 2,4,5-Trichlorophenol
 Concen: 1.940 ng
 RT: 9.27 min Scan# 1222
 Delta R.T. -0.02 min
 Lab File: BF110083.D
 Acq: 23 Oct 2018 17:52

Tgt Ion:	196	Resp:	15924
Ion Ratio	Lower	Upper	
196	100		
198	90.7	75.8	113.6
97	47.5	42.4	63.6
132	30.4	22.8	34.2





#45
 2-Fluorobiphenyl
 Concen: 79.346 ng
 RT: 9.33 min Scan# 1231
 Delta R.T. -0.01 min
 Lab File: BF110083.D
 Acq: 23 Oct 2018 17:52

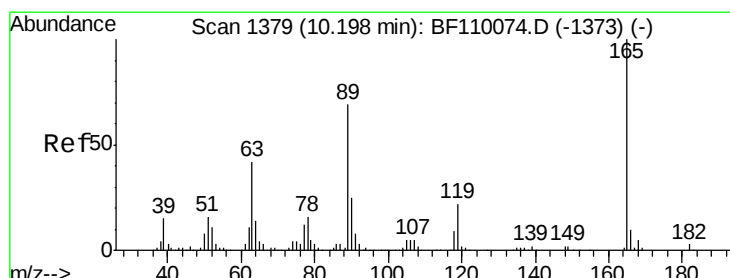
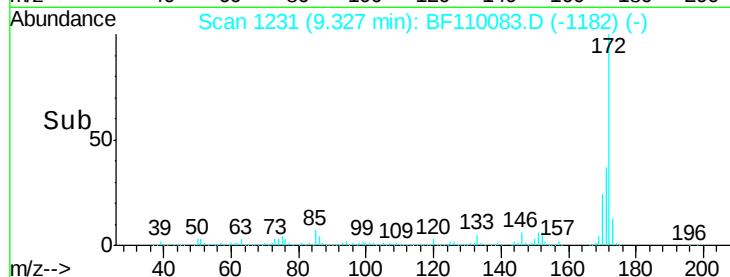
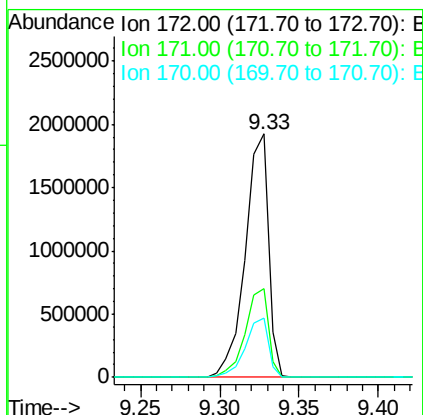
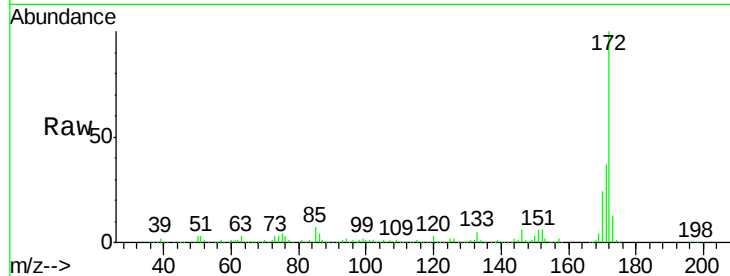
Instrument :
 BNA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018

Tgt Ion:172 Resp: 1952748

Ion	Ratio	Lower	Upper
172	100		
171	36.5	28.6	43.0
170	24.1	19.7	29.5

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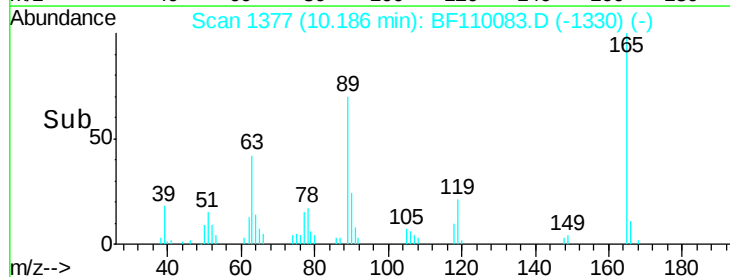
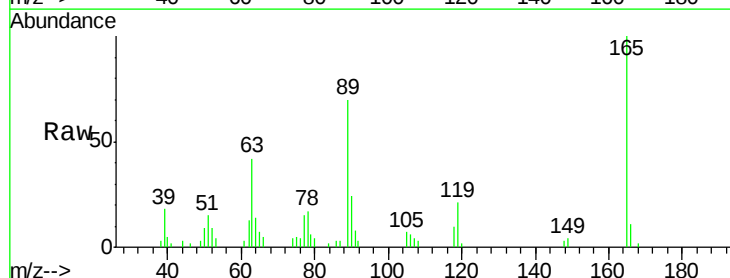
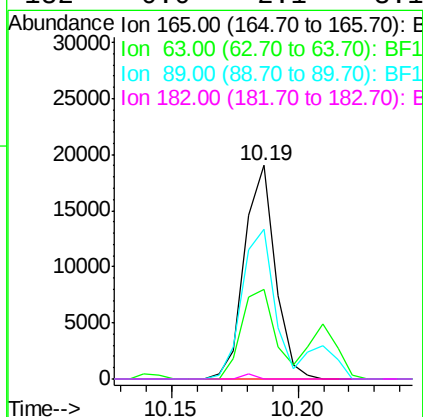
Sohil
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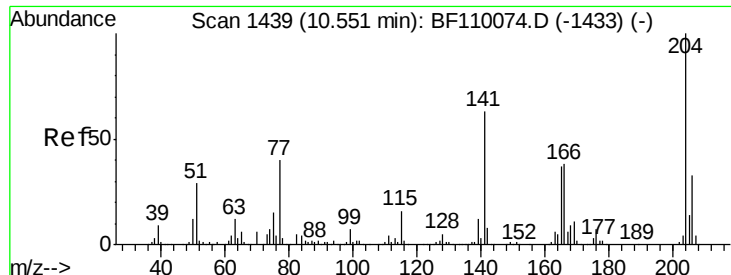


#57
 2,4-Dinitrotoluene
 Concen: 2.063 ng
 RT: 10.19 min Scan# 1377
 Delta R.T. -0.02 min
 Lab File: BF110083.D
 Acq: 23 Oct 2018 17:52

Tgt Ion:165 Resp: 16104

Ion	Ratio	Lower	Upper
165	100		
63	41.9	44.8	67.2#
89	70.3	62.2	93.4
182	0.0	2.1	3.1#





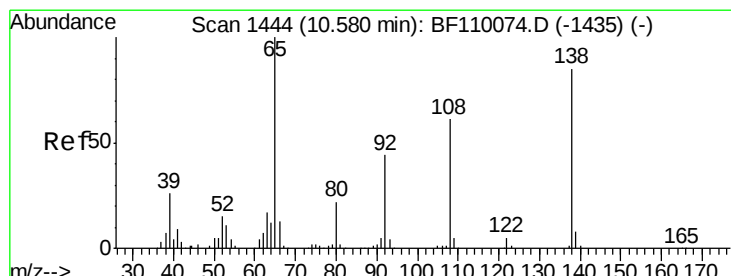
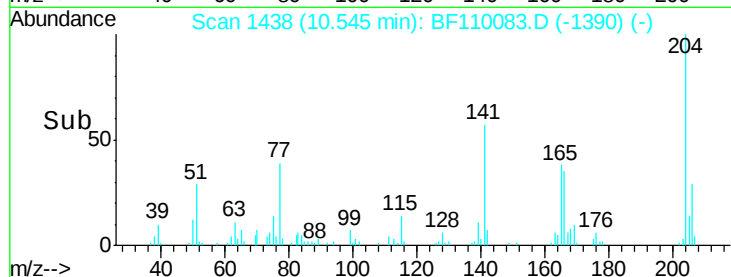
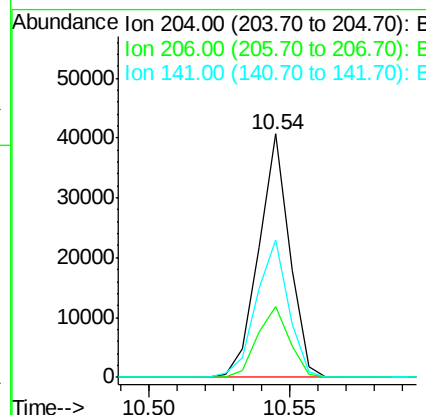
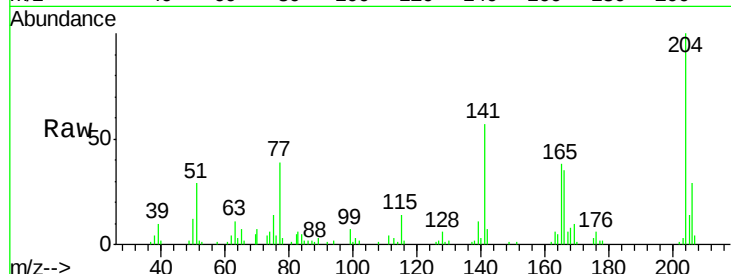
#61
4-Chlorophenyl-phenylether
Concen: 2.289 ng
RT: 10.54 min Scan# 1438
Delta R.T. -0.02 min
Lab File: BF110083.D
Acq: 23 Oct 2018 17:52

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
204	100	30820		
206	29.1	26.5	39.7	
141	56.6	51.8	77.8	

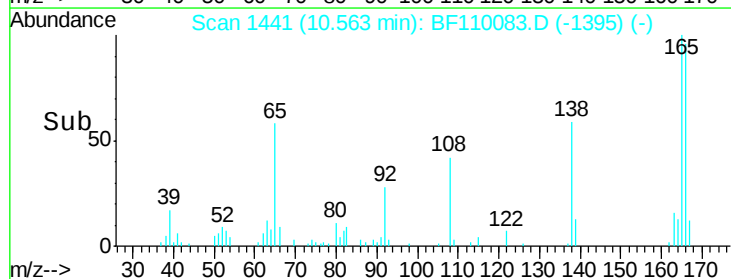
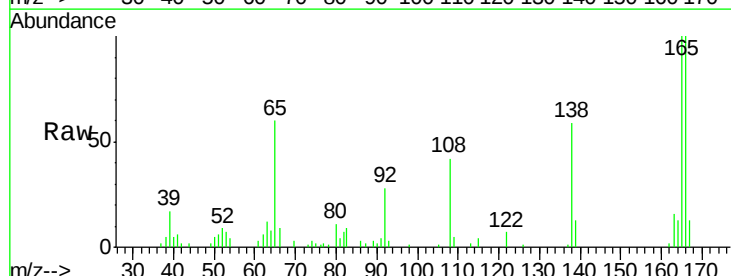
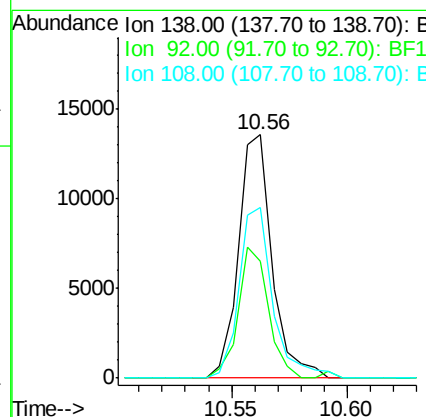
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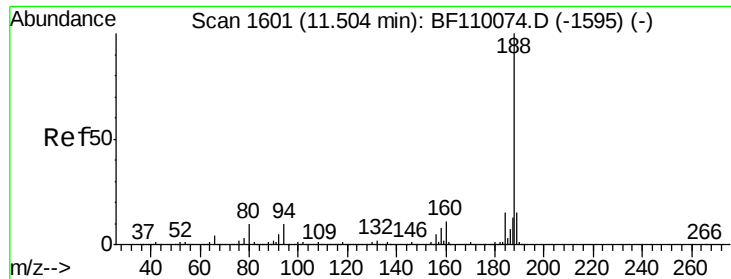
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#62
4-Nitroaniline
Concen: 1.895 ng
RT: 10.56 min Scan# 1441
Delta R.T. -0.03 min
Lab File: BF110083.D
Acq: 23 Oct 2018 17:52

Tgt Ion	Ratio	Resp	Lower	Upper
138	100	13775		
92	48.0	31.7	71.7	
108	70.1	59.3	99.3	





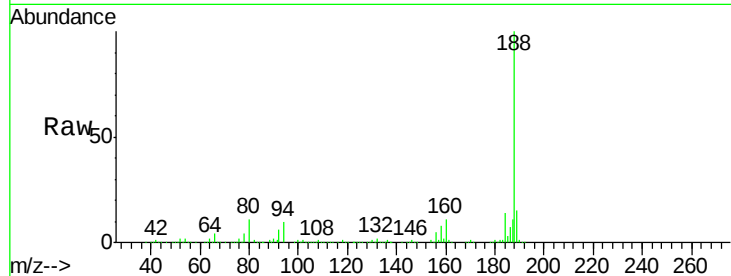
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.50 min Scan# 1600
Delta R.T. -0.02 min
Lab File: BF110083.D
Acq: 23 Oct 2018 17:52

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018

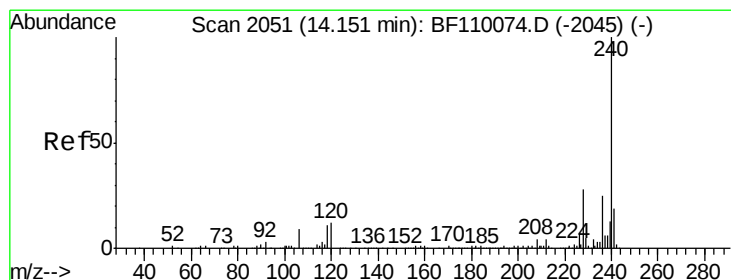
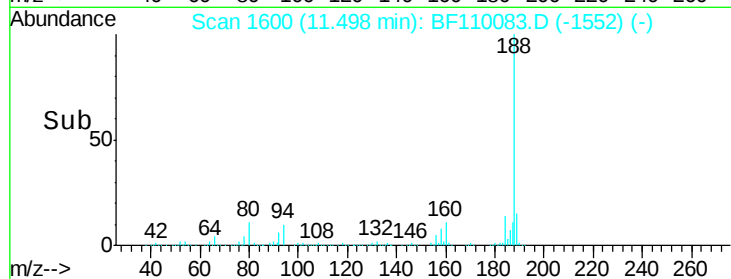
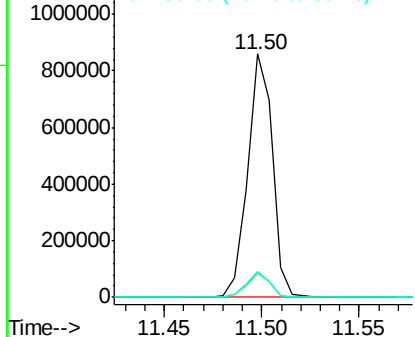
Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	10.3	7.2	10.8
80	10.9	7.9	11.9

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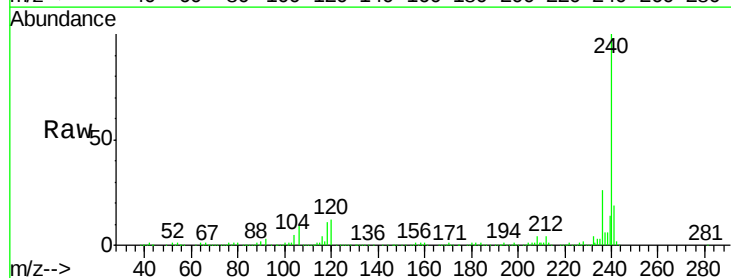


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

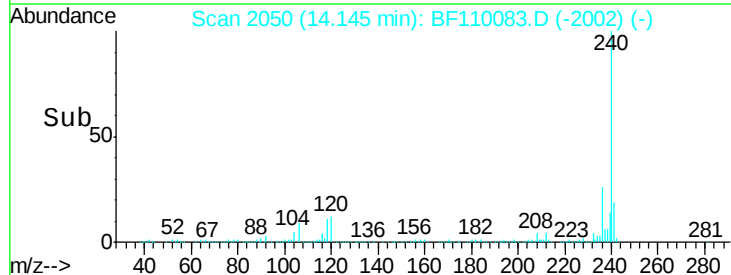
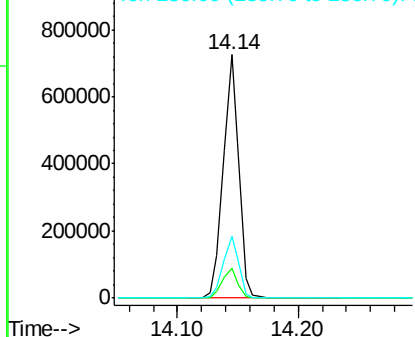


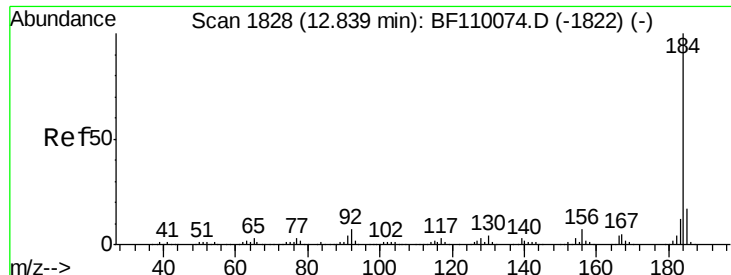
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.14 min Scan# 2050
Delta R.T. -0.02 min
Lab File: BF110083.D
Acq: 23 Oct 2018 17:52

Tgt Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	12.3	8.3	12.5
236	25.7	21.2	31.8



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





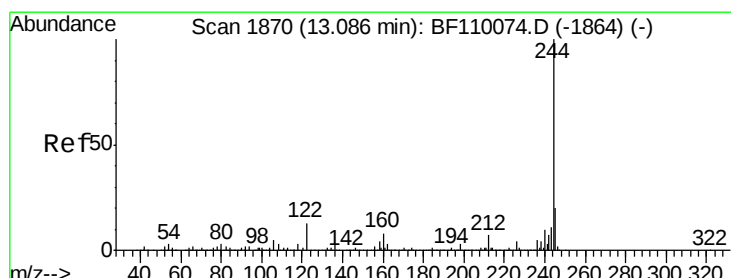
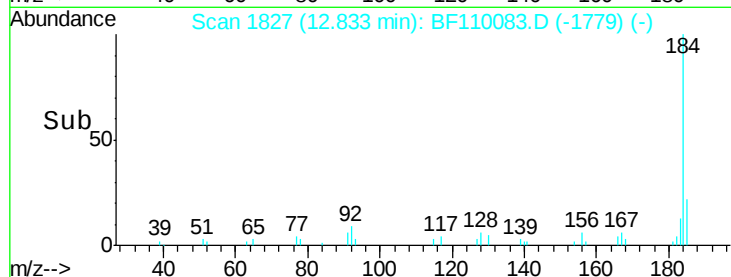
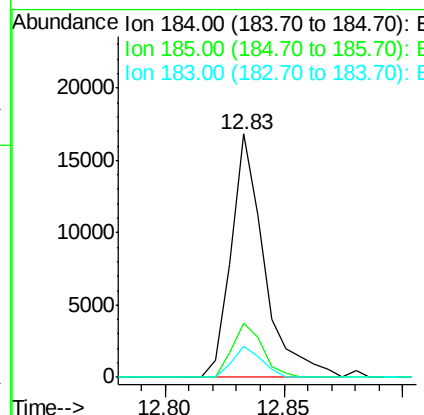
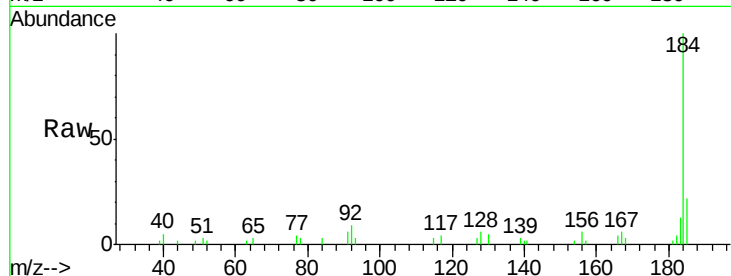
#77
Benzidine
Concen: 0.606 ng m
RT: 12.83 min Scan# 1827
Delta R.T. -0.02 min
Lab File: BF110083.D
Acq: 23 Oct 2018 17:52

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018

Tgt Ion	Ratio	Lower	Upper
184	100		
185	22.3	13.4	20.2#
183	12.6	9.4	14.2

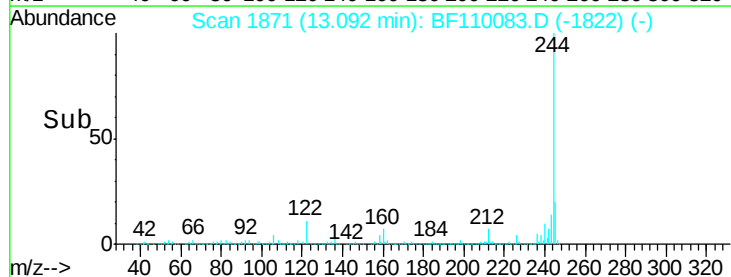
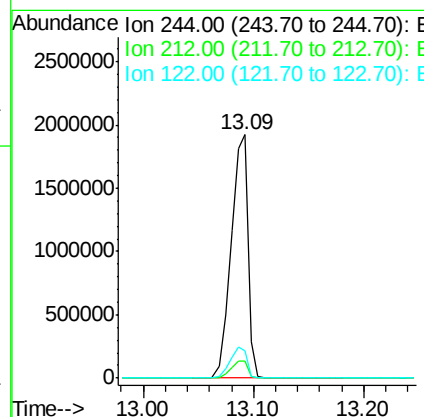
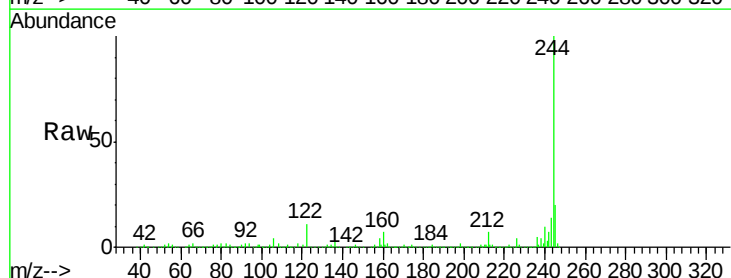
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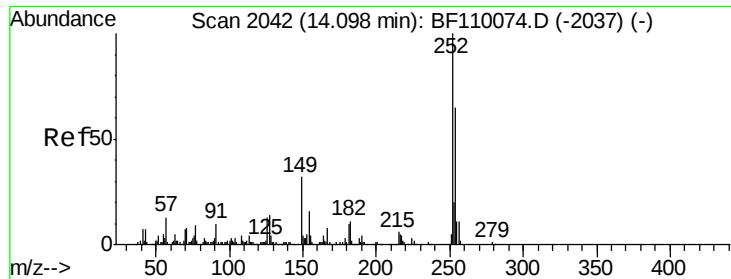
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#79
Terphenyl-d14
Concen: 67.007 ng
RT: 13.09 min Scan# 1871
Delta R.T. -0.01 min
Lab File: BF110083.D
Acq: 23 Oct 2018 17:52

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.8	8.8
122	11.1	8.7	13.1





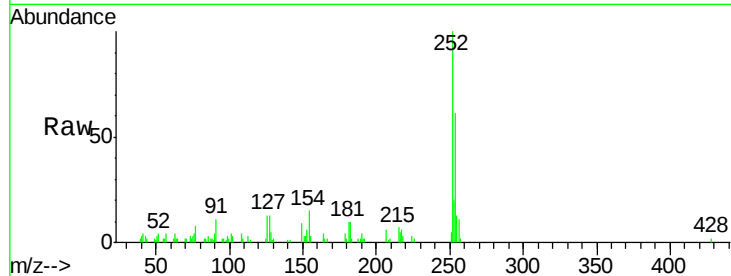
#82
 3,3'-Dichlorobenzidine
 Concen: 1.531 ng
 RT: 14.09 min Scan# 2041
 Delta R.T. -0.02 min
 Lab File: BF110083.D
 Acq: 23 Oct 2018 17:52

Instrument :
 BNA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018

Tgt Ion	Ratio	Lower	Upper
252	100		
254	61.1	51.3	76.9
126	12.5	9.4	14.2

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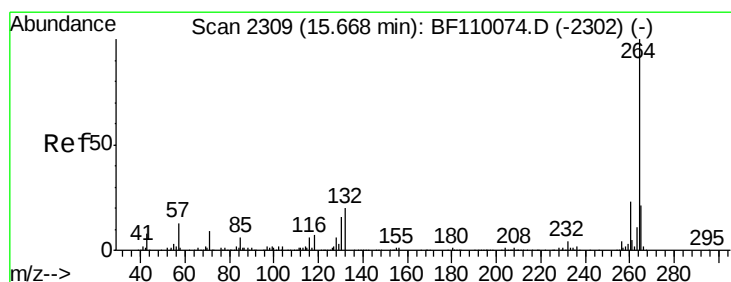
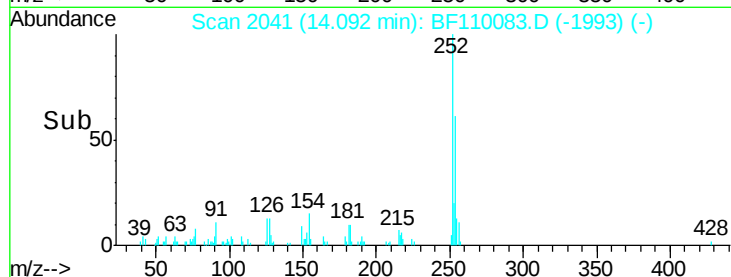
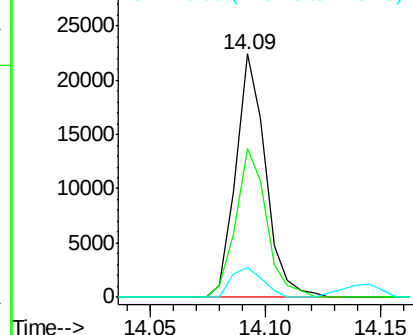


Abundance

Ion 252.00 (251.70 to 252.70): E

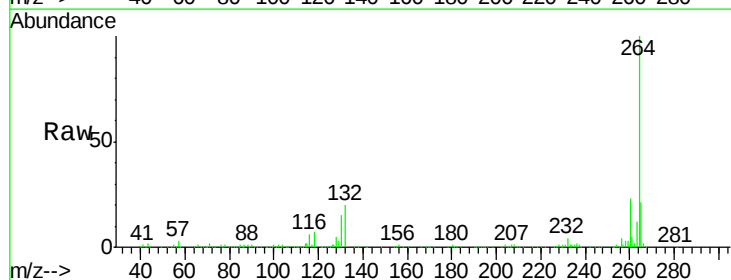
Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.67 min Scan# 2309
 Delta R.T. -0.02 min
 Lab File: BF110083.D
 Acq: 23 Oct 2018 17:52

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.7	28.1
265	21.5	16.7	25.1



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

