

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111519\
 Data File : BF117796.D
 Acq On : 15 Nov 2019 10:08
 Operator : JU
 Sample : K5111-03
 Misc : MDL-MDL-SOIL-8PPM
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019

Quant Time: Nov 15 11:58:48 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 18:36:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.93	152	285103	20.00	ng	0.00
21) Naphthalene-d8	8.21	136	1150323	20.00	ng	0.00
39) Acenaphthene-d10	9.97	164	635810	20.00	ng	0.00
64) Phenanthrene-d10	11.47	188	1231576	20.00	ng	0.00
76) Chrysene-d12	14.12	240	934480	20.00	ng	0.00
87) Perylene-d12	15.63	264	963436	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.54	112	2089880	129.75	ng	0.00
7) Phenol-d6	6.55	99	2515358	129.48	ng	0.00
23) Nitrobenzene-d5	7.49	82	1905944	98.49	ng	0.00
42) 2,4,6-Tribromophenol	10.77	330	917370	136.29	ng	0.00
45) 2-Fluorobiphenyl	9.30	172	3397336	95.86	ng	0.00
79) Terphenyl-d14	13.06	244	4187942	81.91	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.72	88	53743	7.138	ng	99
3) Pyridine	3.53	79	129556	6.560	ng	97
4) n-Nitrosodimethylamine	3.42	42	63219	7.333	ng	96
6) Aniline	6.59	93	227966	8.880	ng	99
8) 2-Chlorophenol	6.71	128	147505	8.440	ng	98
9) Benzaldehyde	6.47	77	121692	5.886	ng	97
10) Phenol	6.56	94	166977	8.271	ng	94
11) bis(2-Chloroethyl)ether	6.66	93	139291	8.592	ng	99
12) 1,3-Dichlorobenzene	6.87	146	170572	8.290	ng	97
13) 1,4-Dichlorobenzene	6.95	146	170178	8.182	ng	99
14) 1,2-Dichlorobenzene	7.10	146	162177	8.153	ng	98
15) Benzyl Alcohol	7.06	79	110008	7.335	ng	99
16) 2,2'-oxybis(1-Chloropropan	7.20	45	203992	8.173	ng	100
17) 2-Methylphenol	7.16	107	124094	8.384	ng	99
18) Hexachloroethane	7.45	117	60530	7.923	ng	98
19) n-Nitroso-di-n-propylamine	7.33	70	107777	8.993	ng	97
20) 3+4-Methylphenols	7.32	107	161886	8.811	ng	94
22) Acetophenone	7.33	105	219576	8.496	ng	98
24) Nitrobenzene	7.50	77	162805	8.155	ng	97
25) Isophorone	7.74	82	294206	8.295	ng	97
26) 2-Nitrophenol	7.82	139	74014	7.617	ng	95
27) 2,4-Dimethylphenol	7.85	122	132604	8.783	ng	100
28) bis(2-Chloroethoxy)methane	7.95	93	183996	8.175	ng	96
29) 2,4-Dichlorophenol	8.06	162	130771	7.985	ng	99
30) 1,2,4-Trichlorobenzene	8.15	180	149840	7.888	ng	98
31) Naphthalene	8.23	128	467569	8.719	ng	97
32) Benzoic acid	7.91	122	54585	4.318	ng	97
33) 4-Chloroaniline	8.27	127	196576	8.188	ng	99
34) Hexachlorobutadiene	8.35	225	85925	7.736	ng	96
35) Caprolactam	8.62	113	39802	7.647	ng	98
36) 4-Chloro-3-methylphenol	8.75	107	135893	8.176	ng	95
37) 2-Methylnaphthalene	8.93	142	324911	8.967	ng	96
38) 1-Methylnaphthalene	9.03	142	308278	8.999	ng	99
40) 1,2,4,5-Tetrachlorobenzene	9.09	216	144244	7.812	ng	99

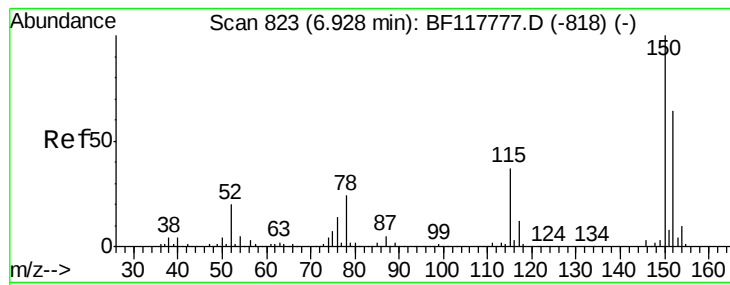
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111519\
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Hexachlorocyclopentadiene	9.08	237	80085	7.740	nq	99
43) 2,4,6-Trichlorophenol	9.20	196	94691	7.160	nq	98
44) 2,4,5-Trichlorophenol	9.24	196	103723	7.554	nq	97
46) 1,1'-Biphenyl	9.39	154	409795	8.687	nq	98
47) 2-Chloronaphthalene	9.42	162	306131	7.889	nq	99
48) 2-Nitroaniline	9.50	65	82521	7.044	nq	97
49) Acenaphthylene	9.83	152	495564	8.759	nq	98
50) Dimethylphthalate	9.69	163	369163	8.280	nq	98
51) 2,6-Dinitrotoluene	9.75	165	77075	7.910	nq	94
52) Acenaphthene	10.01	154	301676	8.324	nq	99
53) 3-Nitroaniline	9.92	138	82332	7.061	nq	98
54) 2,4-Dinitrophenol	10.02	184	23709	11.532	nq #	90
55) Dibenzofuran	10.18	168	445917	8.885	nq	94
56) 4-Nitrophenol	10.06	139	65745	7.554	nq	93
57) 2,4-Dinitrotoluene	10.15	165	96875	7.815	nq	92
58) Fluorene	10.52	166	342109	8.797	nq	99
59) 2,3,4,6-Tetrachlorophenol	10.29	232	89965	7.974	nq	99
60) Diethylphthalate	10.39	149	364676	8.389	nq	98
61) 4-Chlorophenyl-phenylether	10.52	204	172935	8.762	nq	96
62) 4-Nitroaniline	10.53	138	83928	7.189	nq	93
63) Azobenzene	10.67	77	341024	8.623	nq	98
65) 4,6-Dinitro-2-methylphenol	10.56	198	38407	6.680	nq	78
66) n-Nitrosodiphenylamine	10.63	169	300399	8.381	nq	100
67) 4-Bromophenyl-phenylether	11.01	248	106817	8.038	nq	96
68) Hexachlorobenzene	11.07	284	124088	8.008	nq	92
69) Atrazine	11.15	200	88144	7.476	nq	97
70) Pentachlorophenol	11.26	266	62480	6.902	nq	97
71) Phenanthrene	11.49	178	532528	8.600	nq	97
72) Anthracene	11.54	178	550561	8.968	nq	97
73) Carbazole	11.69	167	473126	8.819	nq	98
74) Di-n-butylphthalate	12.03	149	588348	8.808	nq	98
75) Fluoranthene	12.68	202	548827	2.652	nq	99
77) Benzidine	12.80	184	269885	8.817	nq	96
78) Pyrene	12.91	202	560943	7.428	nq	98
80) Butylbenzylphthalate	13.53	149	233146	7.188	nq	97
81) Benzo(a)anthracene	14.10	228	495062	8.017	nq	98
82) 3,3'-Dichlorobenzidine	14.06	252	188712	8.737	nq	99
83) Chrysene	14.14	228	477937	7.987	nq	98
84) Bis(2-ethylhexyl)phthalate	14.09	149	341753	8.691	nq	97
85) Di-n-octyl phthalate	14.71	149	545080	9.435	nq	100
86) Indeno(1,2,3-cd)pyrene	17.15	276	404520	7.943	nq	100
88) Benzo(b)fluoranthene	15.17	252	448457	7.164	nq	99
89) Benzo(k)fluoranthene	15.20	252	471143	7.988	nq	99
90) Benzo(a)pyrene	15.56	252	396426	7.202	nq	98
91) Dibenzo(a,h)anthracene	17.17	278	345054	7.283	nq	99
92) Benzo(g,h,i)perylene	17.61	276	326453	6.918	nq	99

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.93 min Scan# 823

Delta R.T. 0.00 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

Instrument :

BNA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019

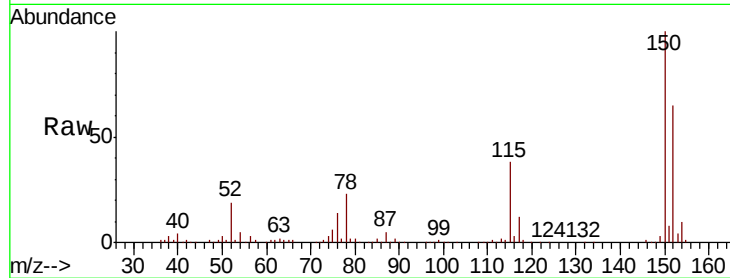
Tot Ion:152 Resp: 285103

Ion Ratio Lower Upper

152 100

150 153.9 125.3 187.9

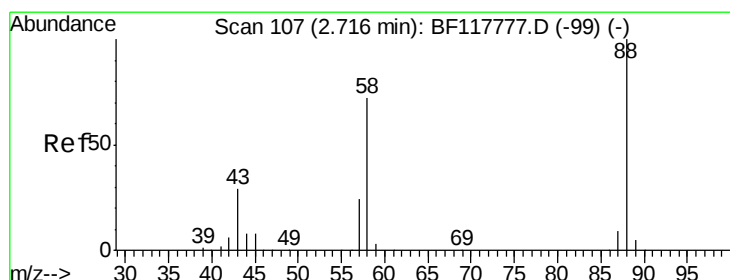
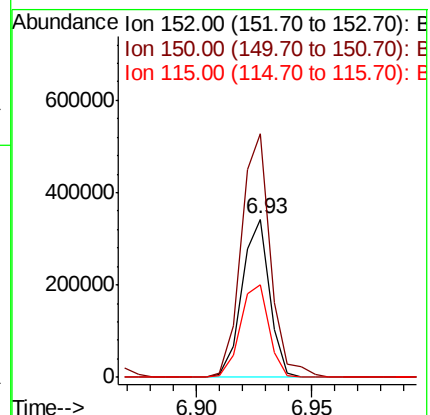
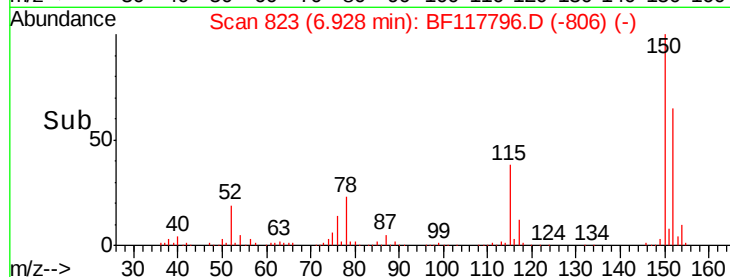
115 58.8 47.0 70.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 7.138 ng

RT: 2.72 min Scan# 108

Delta R.T. 0.01 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

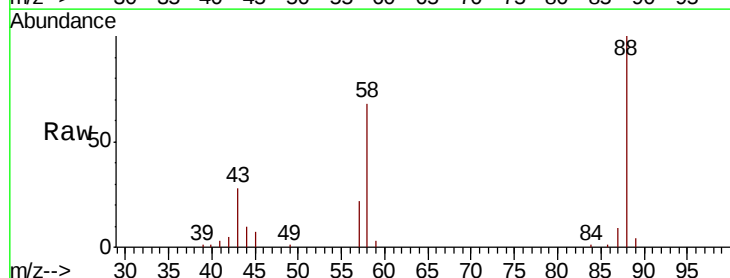
Tgt Ion: 88 Resp: 53743

Ion Ratio Lower Upper

88 100

58 71.9 58.2 87.2

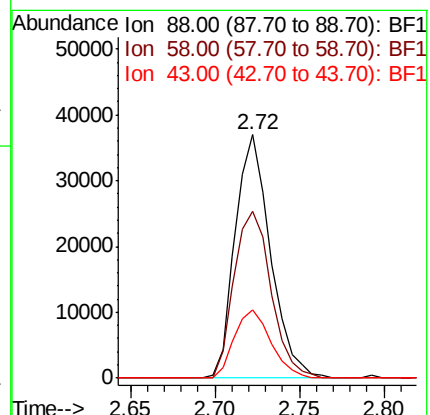
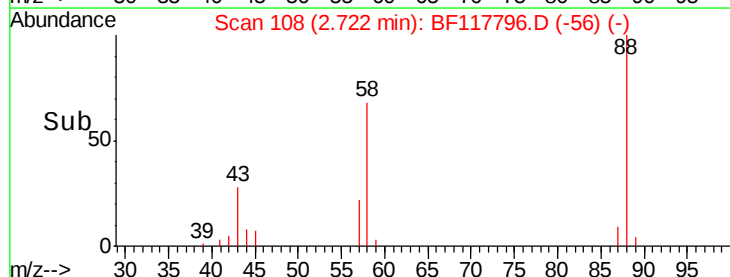
43 29.0 23.3 34.9

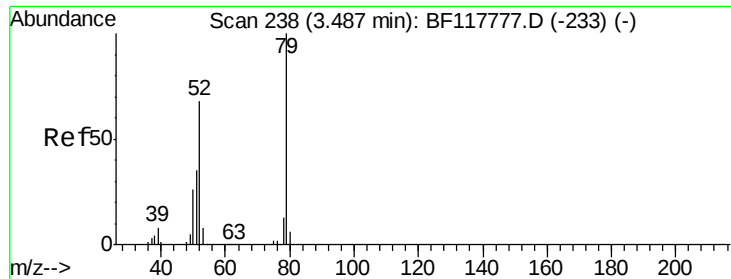


Abundance Ion 88.00 (87.70 to 88.70): BF1

Ion 58.00 (57.70 to 58.70): BF1

Ion 43.00 (42.70 to 43.70): BF1





#3

Pvridine

Concen: 6.560 ng

RT: 3.53 min Scan# 246

Delta R.T. 0.05 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

Instrument :

BNA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019

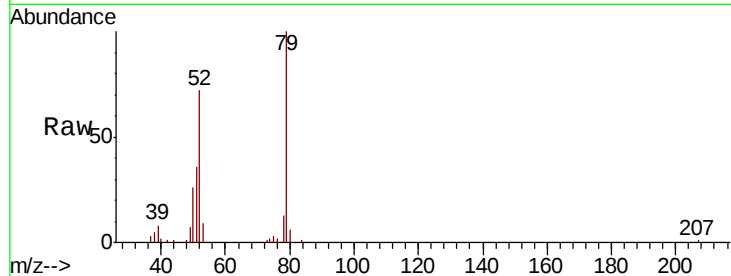
Tot Ion: 79 Resp: 129556

Ion Ratio Lower Upper

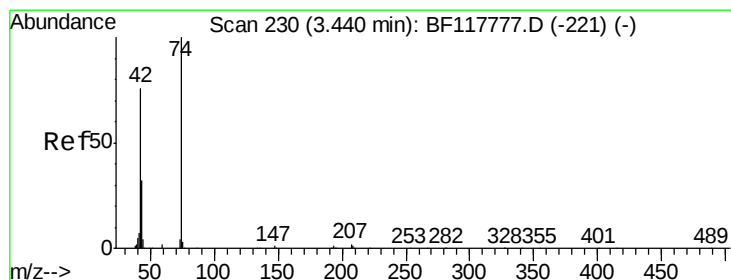
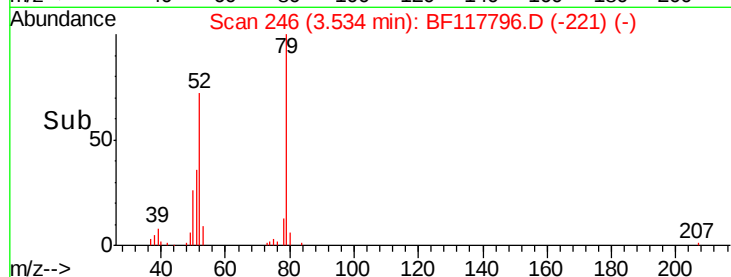
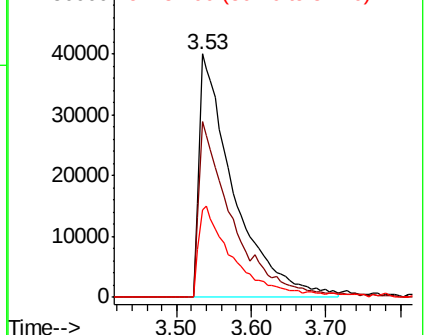
79 100

52 72.1 54.8 82.2

51 35.9 28.2 42.4



Abundance Ion 79.00 (78.70 to 79.70): BF1
Ion 52.00 (51.70 to 52.70): BF1
Ion 51.00 (50.70 to 51.70): BF1



#4

n-Nitrosodimethylamine

Concen: 7.333 ng

RT: 3.42 min Scan# 227

Delta R.T. -0.02 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

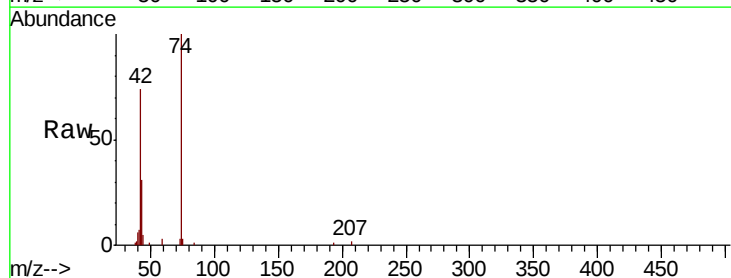
Tgt Ion: 42 Resp: 63219

Ion Ratio Lower Upper

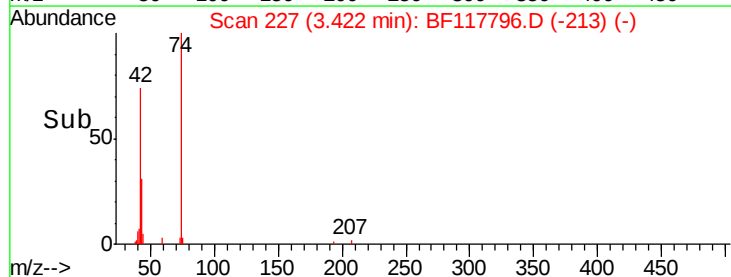
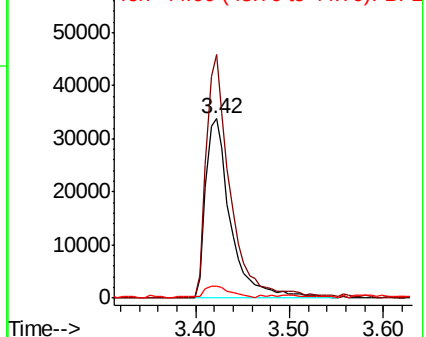
42 100

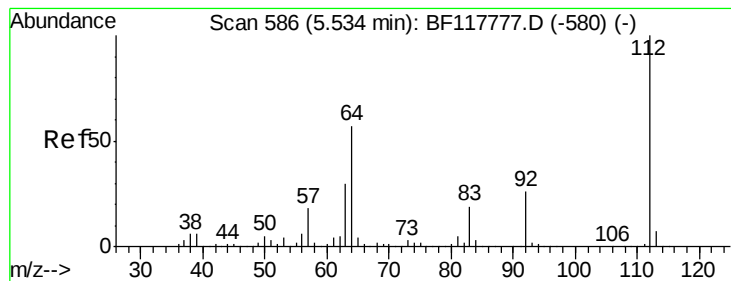
74 135.8 105.1 157.7

44 6.9 4.6 7.0



Abundance Ion 42.00 (41.70 to 42.70): BF1
Ion 74.00 (73.70 to 74.70): BF1
Ion 44.00 (43.70 to 44.70): BF1

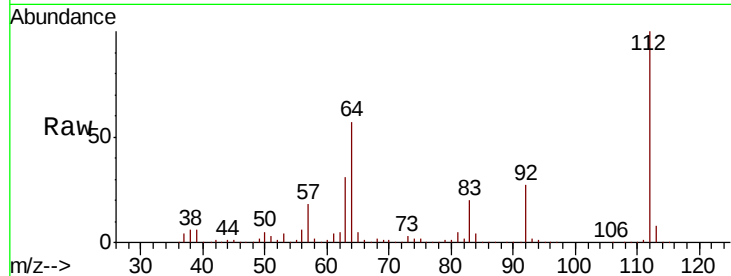




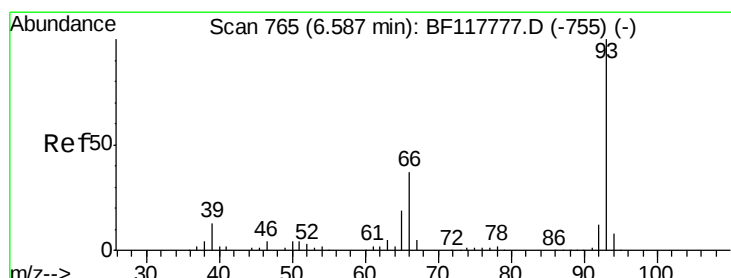
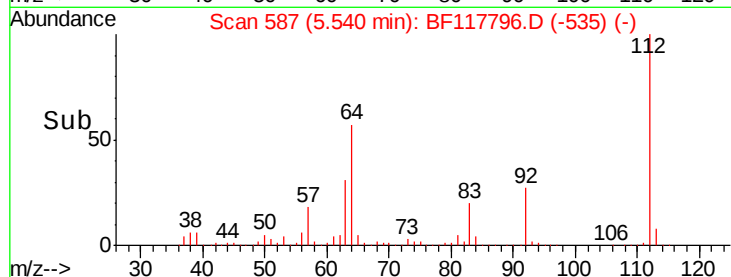
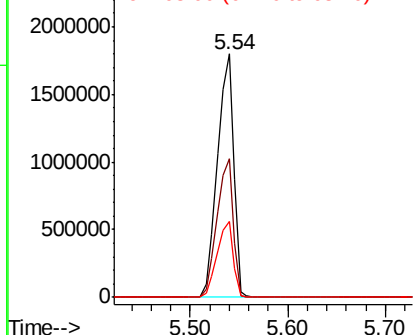
#5
 2-Fluorophenol
 Concen: 129.753 ng
 RT: 5.54 min Scan# 587
 Delta R.T. 0.01 min
 Lab File: BF117796.D
 Acq: 15 Nov 2019 10:08

Instrument :
 BNA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019

Tot Ion:112 Resp: 2089880
 Ion Ratio Lower Upper
 112 100
 64 57.2 45.6 68.4
 63 31.3 24.1 36.1

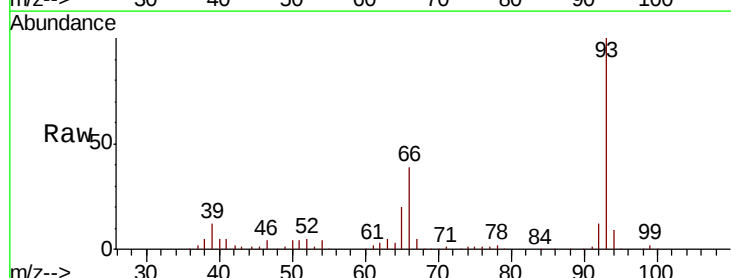


Abundance Ion 112.00 (111.70 to 112.70): BF1
 Ion 64.00 (63.70 to 64.70): BF1
 Ion 63.00 (62.70 to 63.70): BF1

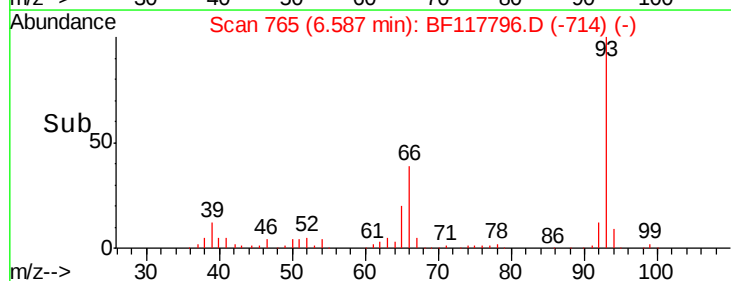
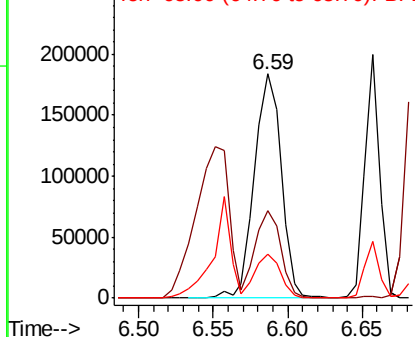


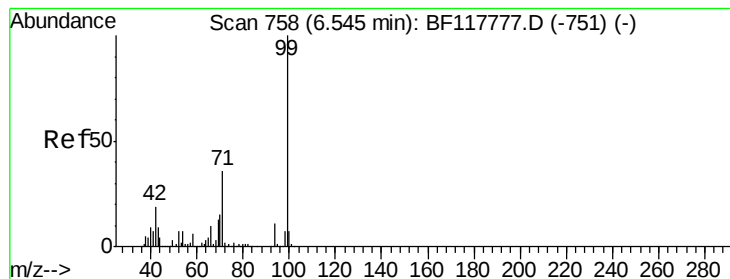
#6
 Aniline
 Concen: 8.880 ng
 RT: 6.59 min Scan# 765
 Delta R.T. 0.00 min
 Lab File: BF117796.D
 Acq: 15 Nov 2019 10:08

Tgt Ion: 93 Resp: 227966
 Ion Ratio Lower Upper
 93 100
 66 39.2 30.6 45.8
 65 19.8 15.6 23.4



Abundance Ion 93.00 (92.70 to 93.70): BF1
 Ion 66.00 (65.70 to 66.70): BF1
 Ion 65.00 (64.70 to 65.70): BF1





#7

Phenol-d6

Concen: 129.477 ng

RT: 6.55 min Scan# 759

Delta R.T. 0.01 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

Instrument :

BNA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019

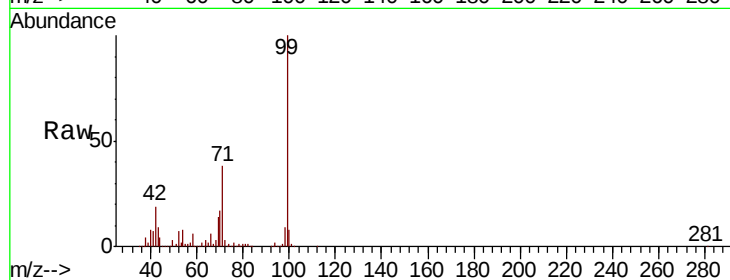
Tot Ion: 99 Resp: 2515358

Ion Ratio Lower Upper

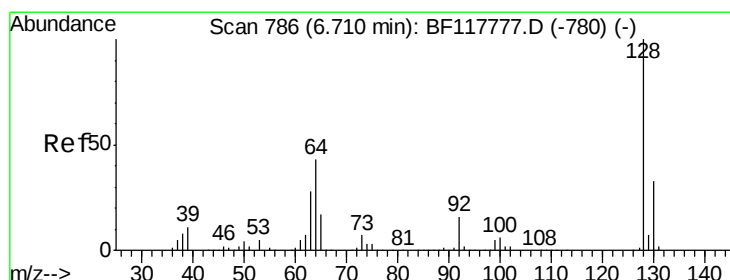
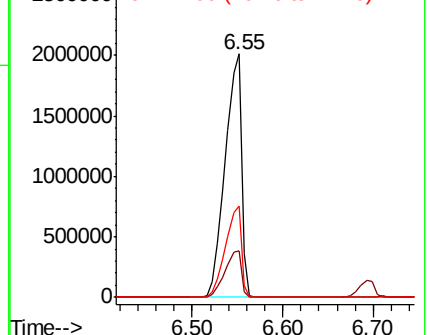
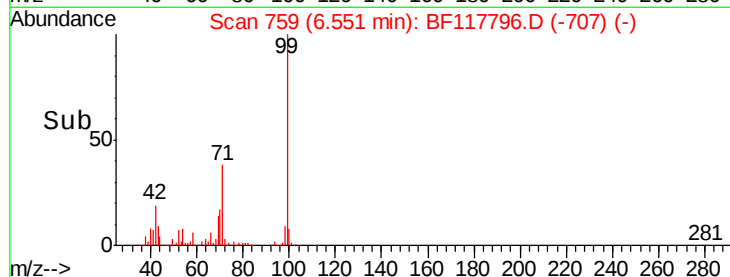
99 100

42 19.2 14.9 22.3

71 37.7 28.6 43.0



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



#8

2-Chlorophenol

Concen: 8.440 ng

RT: 6.71 min Scan# 786

Delta R.T. 0.00 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

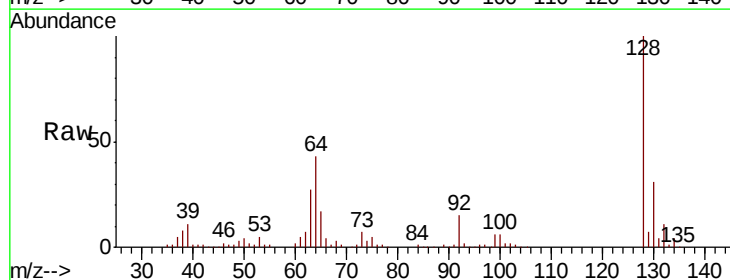
Tgt Ion: 128 Resp: 147505

Ion Ratio Lower Upper

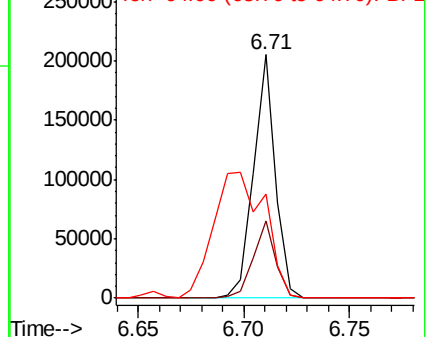
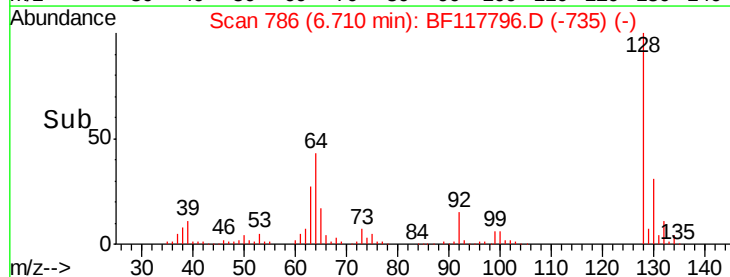
128 100

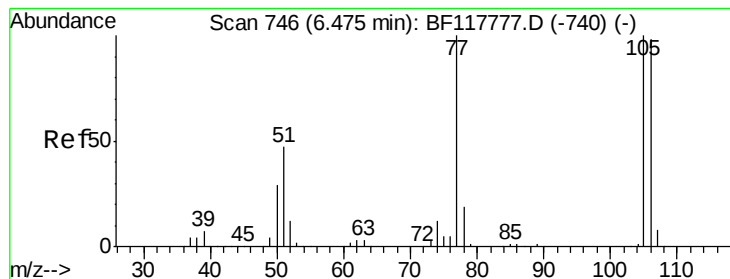
130 31.5 13.2 53.2

64 42.8 23.7 63.7



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: 5.886 ng

RT: 6.47 min Scan# 746

Delta R.T. 0.00 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

Instrument :

BNA_F

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MDL-MDL-SOIL-03-QT4-2019

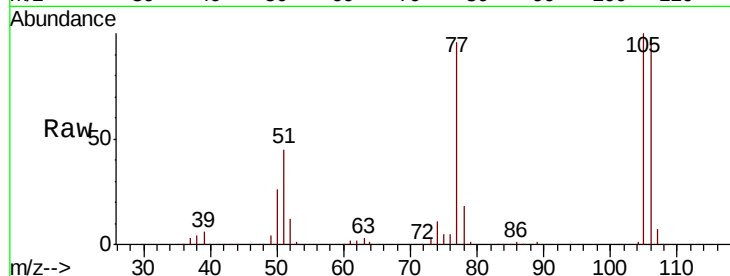
Tot Ion: 77 Resp: 121692

Ion Ratio Lower Upper

77 100

105 104.0 80.2 120.2

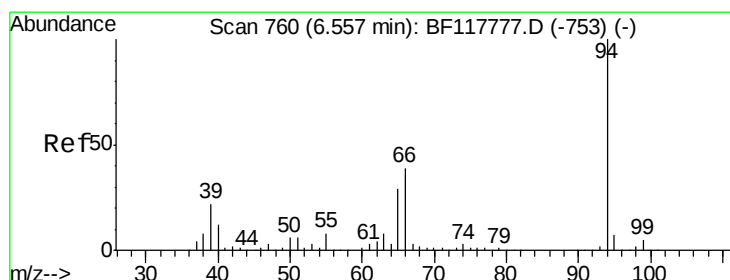
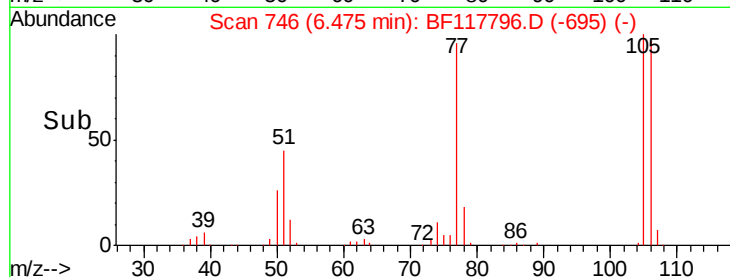
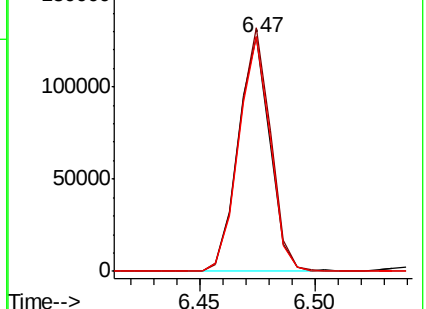
106 100.5 78.4 118.4



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: 8.271 ng

RT: 6.56 min Scan# 760

Delta R.T. 0.00 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

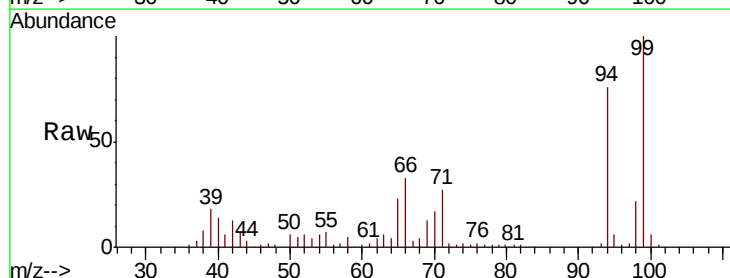
Tgt Ion: 94 Resp: 166977

Ion Ratio Lower Upper

94 100

65 30.3 8.9 48.9

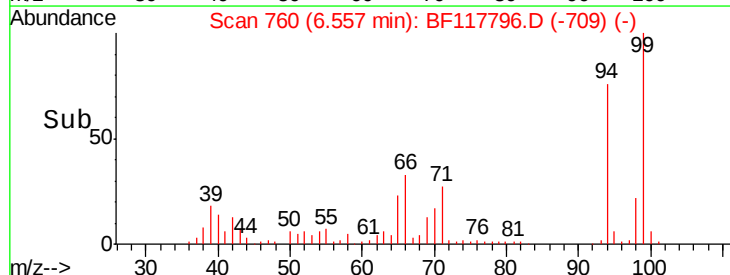
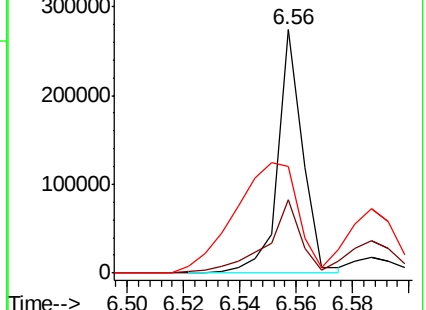
66 44.0 18.7 58.7

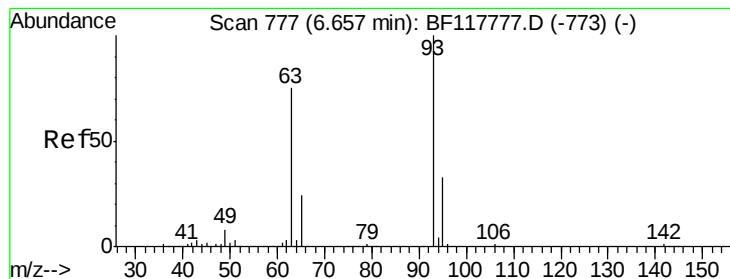


Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1





#11

bis(2-Chloroethyl)ether

Concen: 8.592 ng

RT: 6.66 min Scan# 777

Delta R.T. 0.00 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

Instrument :

BNA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019

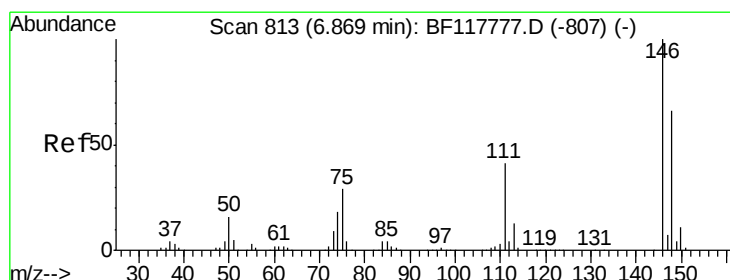
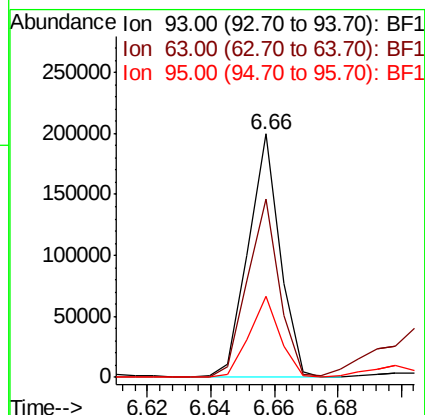
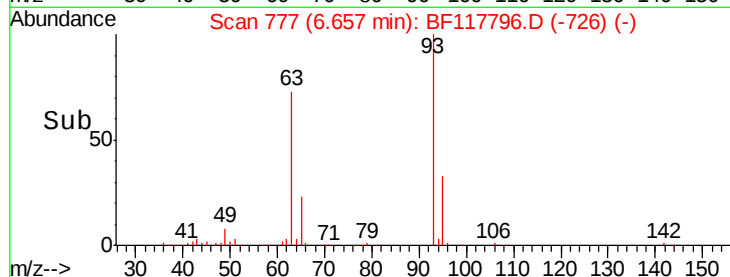
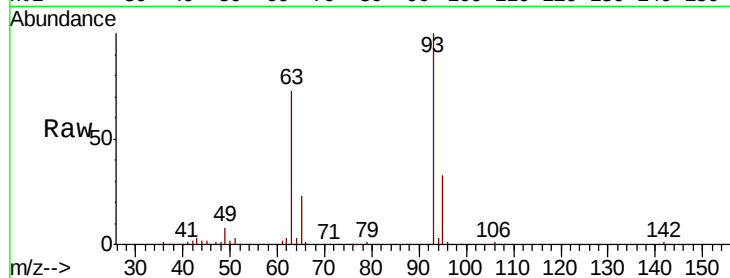
Tot Ion: 93 Resp: 139291

Ion Ratio Lower Upper

93 100

63 73.4 54.8 94.8

95 33.1 12.7 52.7



#12

1,3-Dichlorobenzene

Concen: 8.290 ng

RT: 6.87 min Scan# 813

Delta R.T. 0.00 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

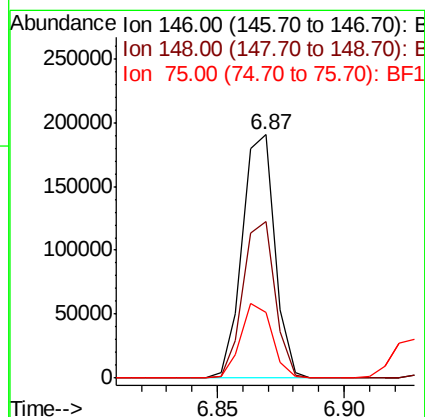
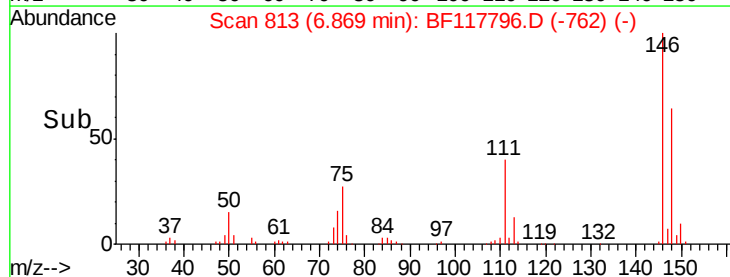
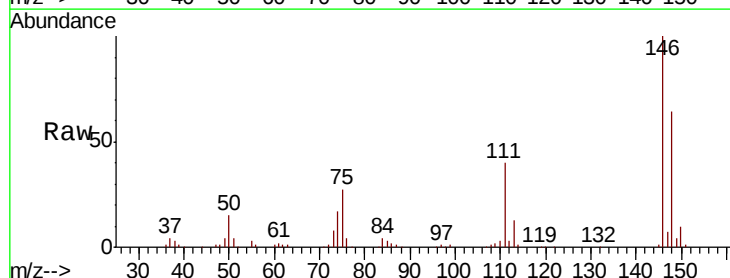
Tgt Ion: 146 Resp: 170572

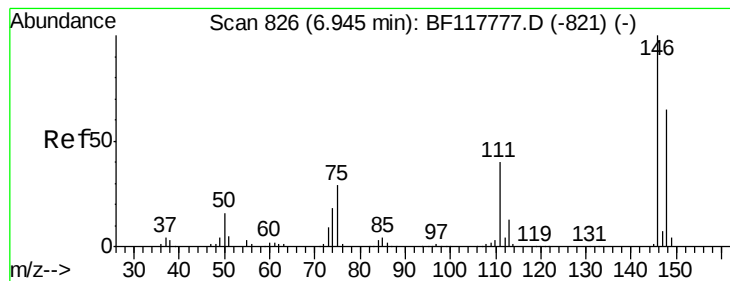
Ion Ratio Lower Upper

146 100

148 64.3 52.8 79.2

75 26.9 23.4 35.0

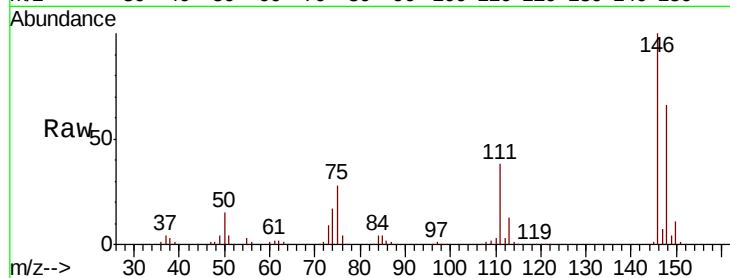




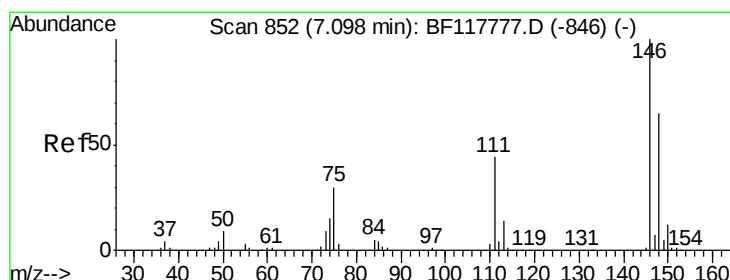
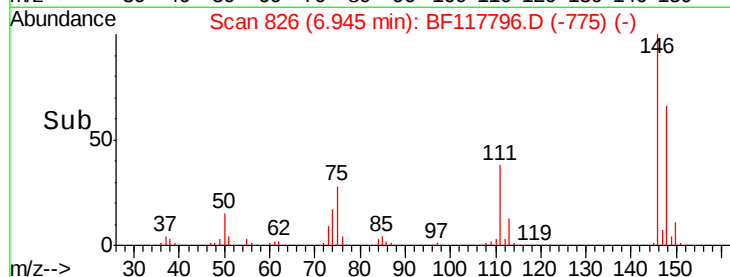
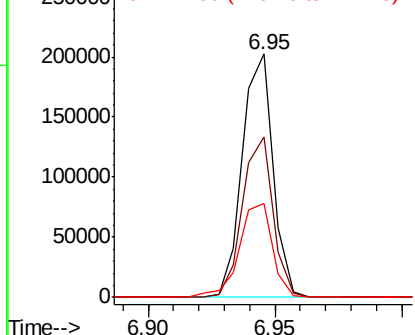
#13
 1,4-Dichlorobenzene
 Concen: 8.182 ng
 RT: 6.95 min Scan# 826
 Delta R.T. 0.00 min
 Lab File: BF117796.D
 Acq: 15 Nov 2019 10:08

Instrument :
 BNA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019

Tot Ion:146 Resp: 170178
 Ion Ratio Lower Upper
 146 100
 148 65.7 52.3 78.5
 111 38.4 32.2 48.4

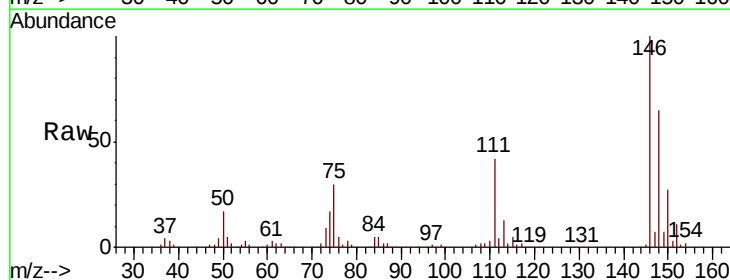


Abundance Ion 146.00 (145.70 to 146.70): E
 Ion 148.00 (147.70 to 148.70): E
 Ion 111.00 (110.70 to 111.70): E

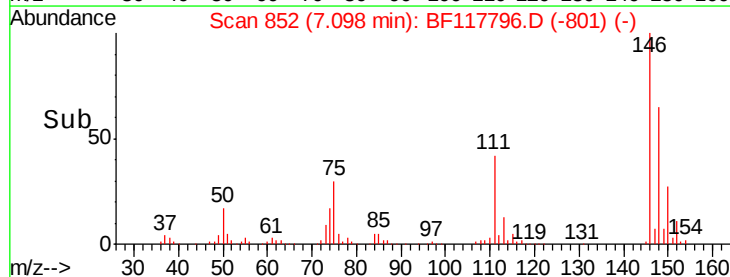
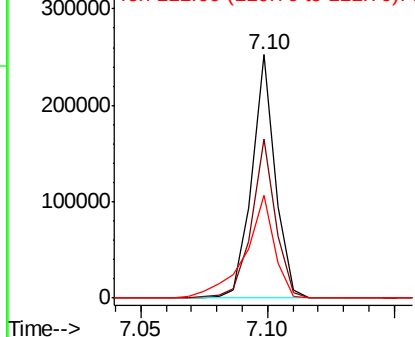


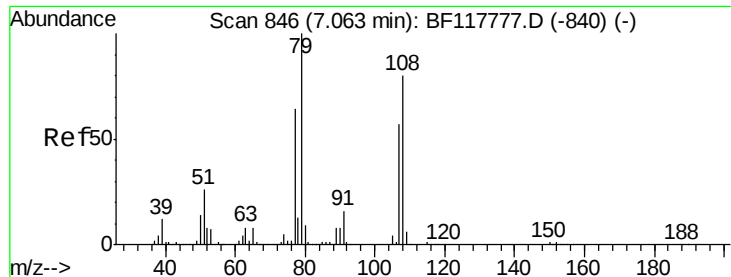
#14
 1,2-Dichlorobenzene
 Concen: 8.153 ng
 RT: 7.10 min Scan# 852
 Delta R.T. 0.00 min
 Lab File: BF117796.D
 Acq: 15 Nov 2019 10:08

Tgt Ion:146 Resp: 162177
 Ion Ratio Lower Upper
 146 100
 148 65.4 51.8 77.8
 111 42.0 35.0 52.6



Abundance Ion 146.00 (145.70 to 146.70): E
 Ion 148.00 (147.70 to 148.70): E
 Ion 111.00 (110.70 to 111.70): E





#15

Benzyl Alcohol

Concen: 7.335 ng

RT: 7.06 min Scan# 845

Delta R.T. -0.01 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

Instrument :

BNA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019

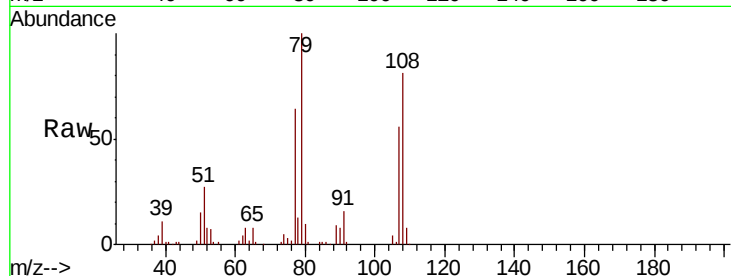
Tot Ion: 79 Resp: 110008

Ion Ratio Lower Upper

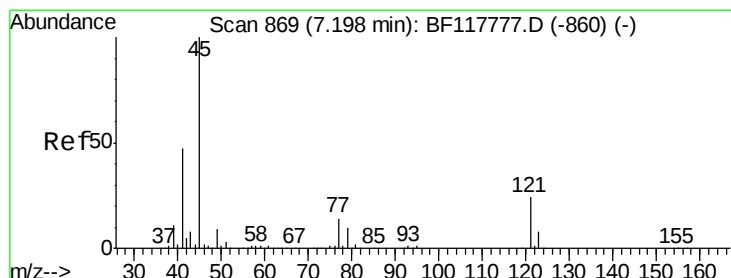
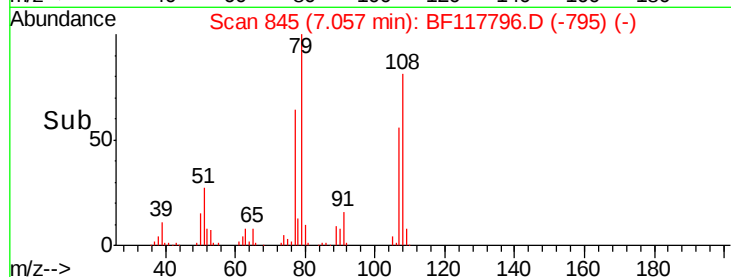
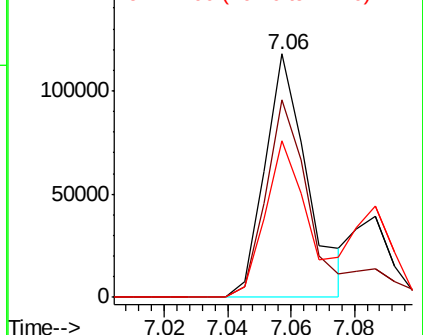
79 100

108 81.2 64.1 96.1

77 64.3 51.3 76.9



Abundance Ion 79.00 (78.70 to 79.70): BF1
Ion 108.00 (107.70 to 108.70): BF1
Ion 77.00 (76.70 to 77.70): BF1



#16

2,2'-oxybis(1-chloropropane)

Concen: 8.173 ng

RT: 7.20 min Scan# 869

Delta R.T. 0.00 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

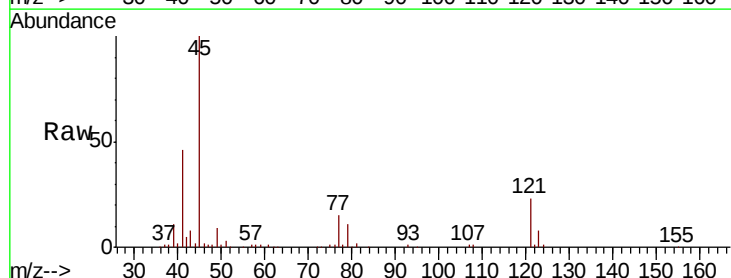
Tgt Ion: 45 Resp: 203992

Ion Ratio Lower Upper

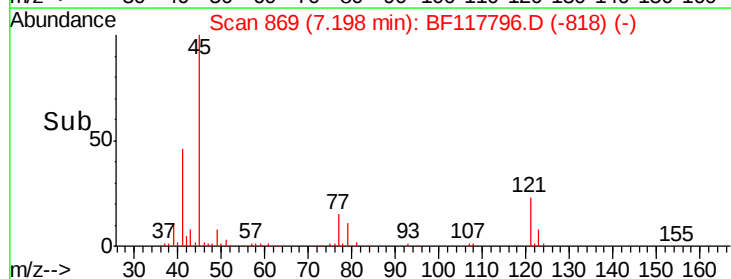
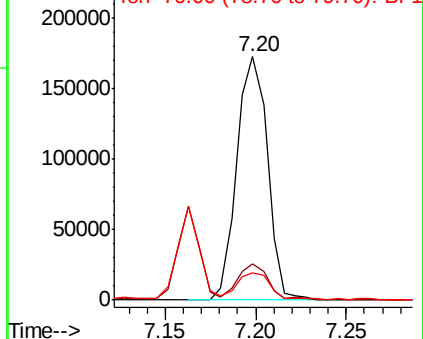
45 100

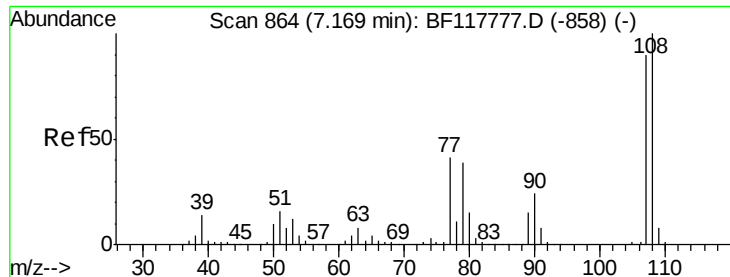
77 14.8 0.0 35.0

79 11.2 0.0 31.1



Abundance Ion 45.00 (44.70 to 45.70): BF1
Ion 77.00 (76.70 to 77.70): BF1
Ion 79.00 (78.70 to 79.70): BF1

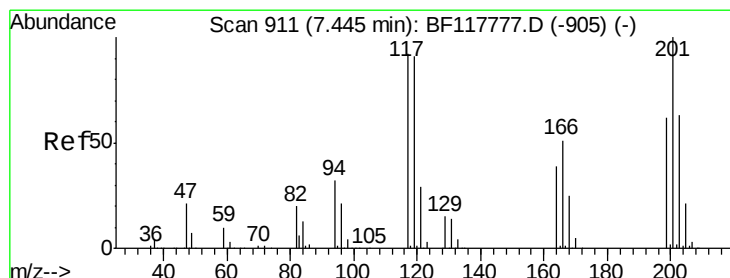
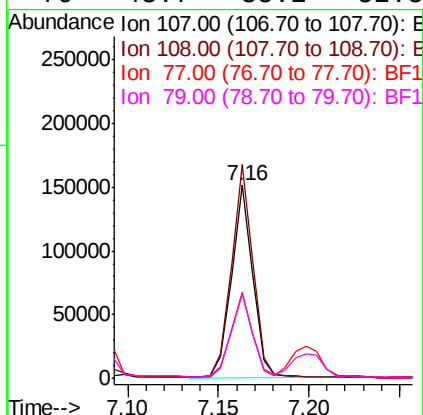
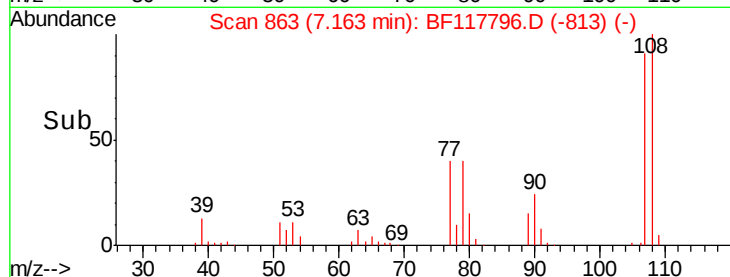
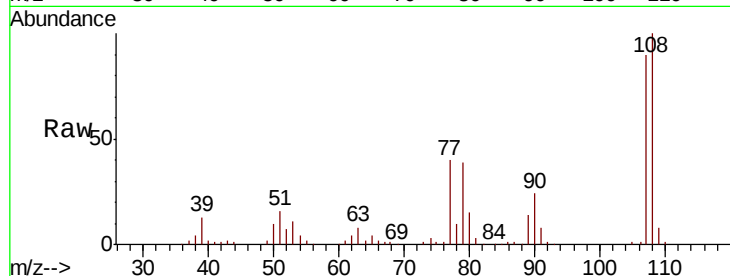




#17
2-Methylphenol
Concen: 8.384 ng
RT: 7.16 min Scan# 863
Delta R.T. -0.01 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

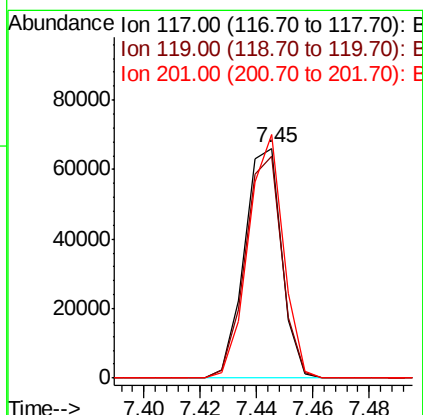
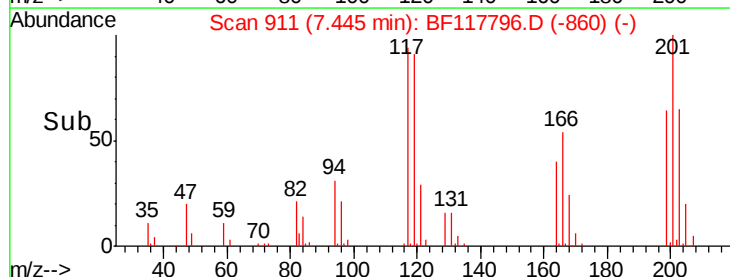
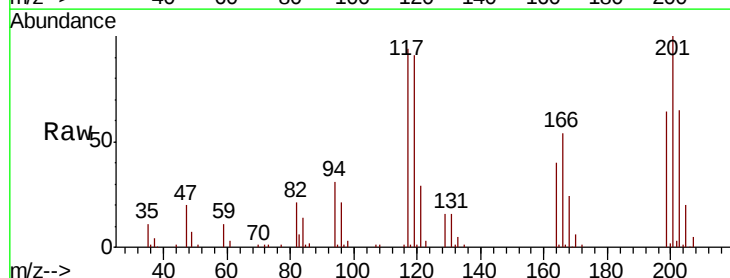
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019

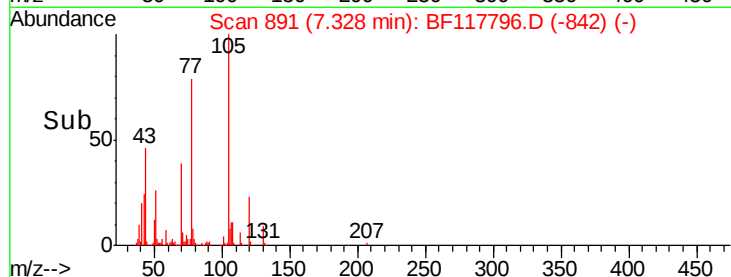
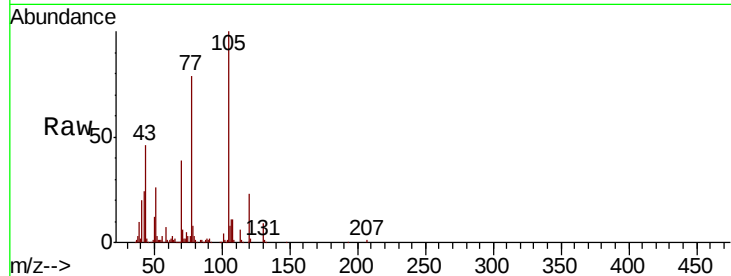
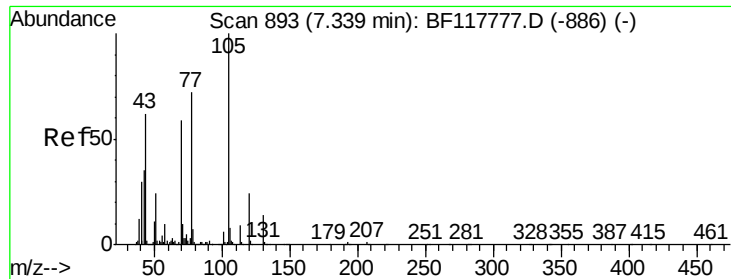
Tot Ion:	107	Resp:	124094
Ion	Ratio	Lower	Upper
107	100		
108	110.6	89.1	133.7
77	44.1	36.6	54.8
79	43.7	35.2	52.8



#18
Hexachloroethane
Concen: 7.923 ng
RT: 7.45 min Scan# 911
Delta R.T. 0.00 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

Tgt Ion:	117	Resp:	60530
Ion	Ratio	Lower	Upper
117	100		
119	96.6	78.7	118.1
201	106.0	86.5	129.7

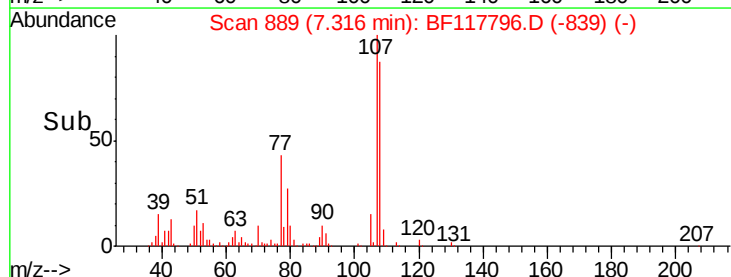
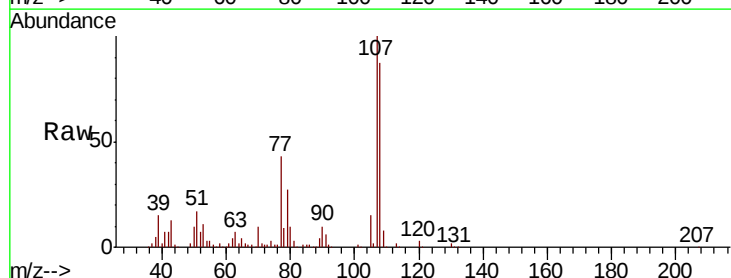
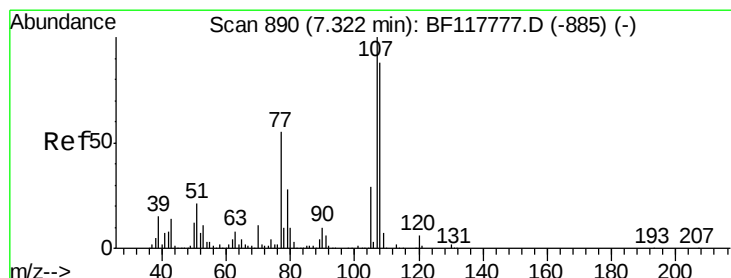
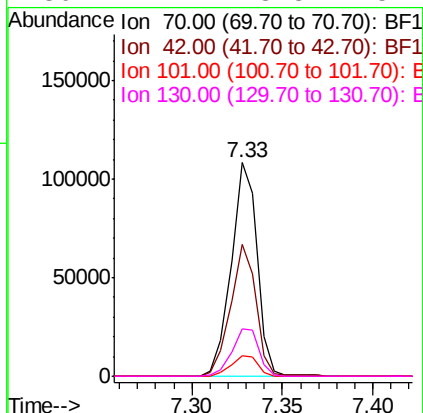




#19
n-Nitroso-di-n-propylamine
Concen: 8.993 ng
RT: 7.33 min Scan# 891
Delta R.T. -0.01 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

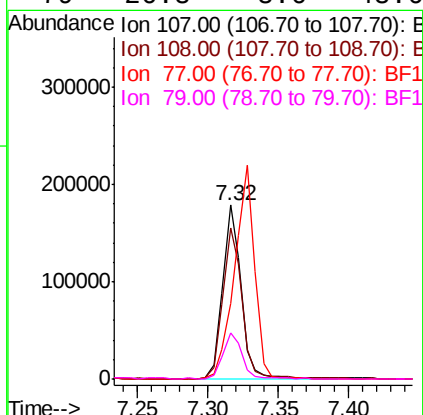
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019

Tot Ion:	70	Resp:	107777
Ion	Ratio	Lower	Upper
70	100		
42	61.5	47.4	71.2
101	9.8	8.4	12.6
130	22.1	18.8	28.2



#20
3+4-Methylphenols
Concen: 8.811 ng
RT: 7.32 min Scan# 889
Delta R.T. -0.01 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

Tgt Ion:	107	Resp:	161886
Ion	Ratio	Lower	Upper
107	100		
108	87.2	68.4	108.4
77	43.4	35.2	75.2
79	26.8	8.6	48.6



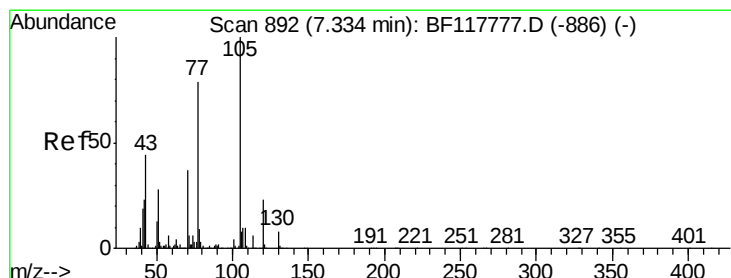
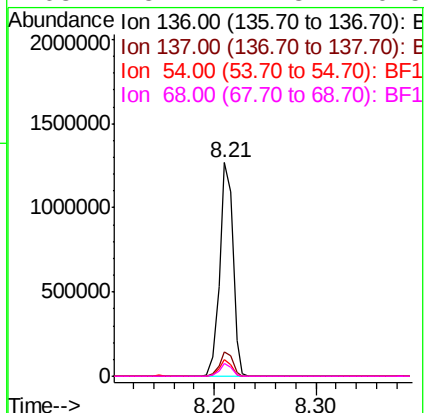
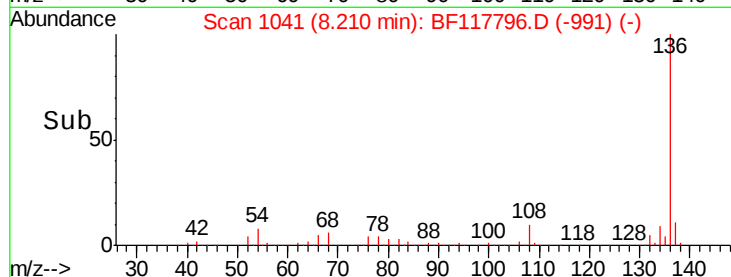
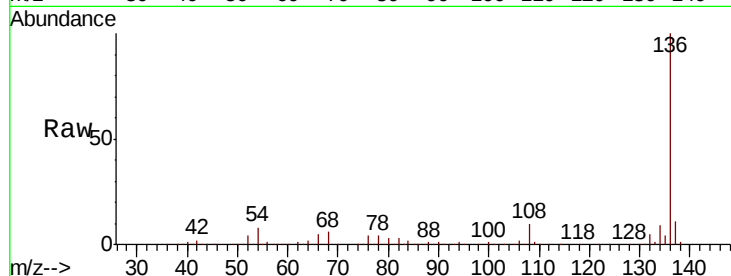


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.21 min Scan# 1041
Delta R.T. -0.01 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019

Tot Ion:136 Resp: 1150323

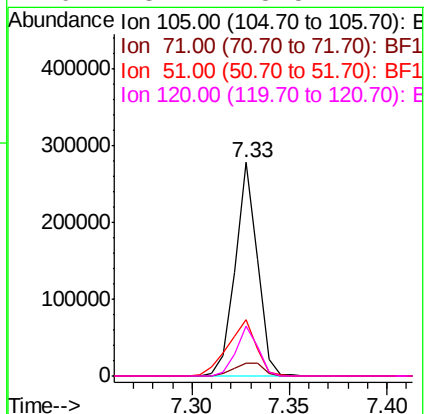
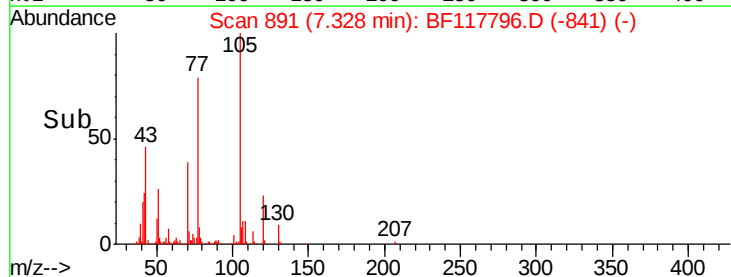
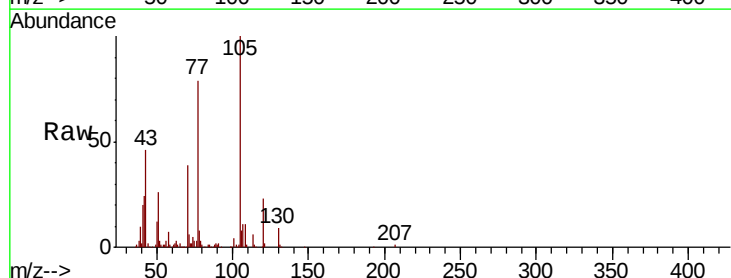
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	7.8	5.4	8.2
68	5.7	4.3	6.5

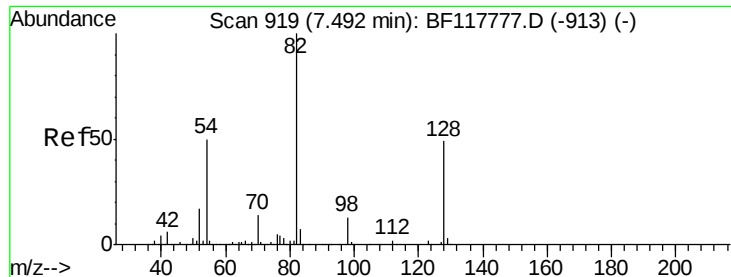


#22
Acetophenone
Concen: 8.496 ng
RT: 7.33 min Scan# 891
Delta R.T. -0.01 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

Tgt Ion:105 Resp: 219576

Ion	Ratio	Lower	Upper
105	100		
71	6.3	4.9	7.3
51	26.4	22.7	34.1
120	23.2	18.5	27.7

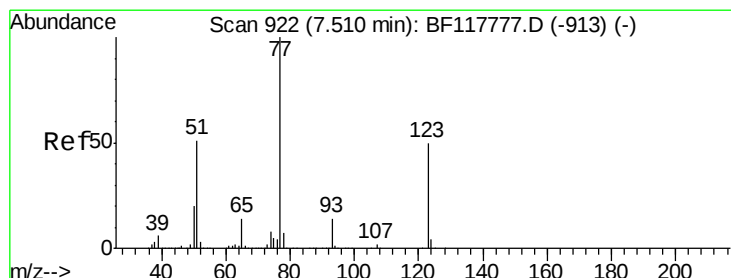
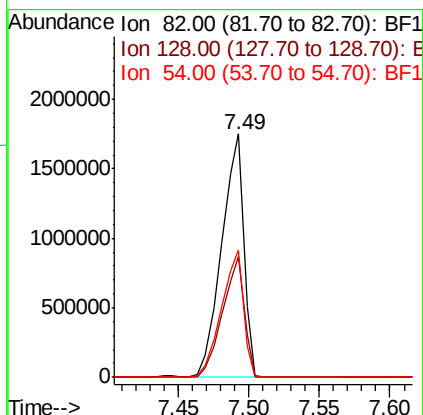
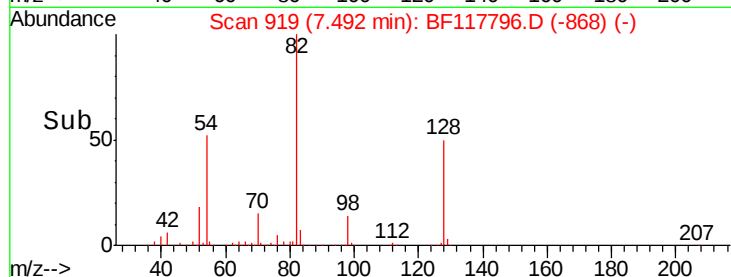
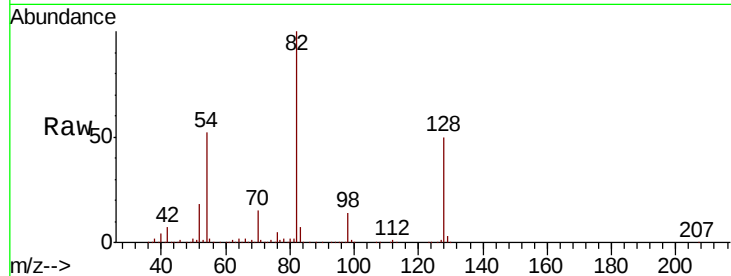




#23
Nitrobenzene-d5
Concen: 98.495 ng
RT: 7.49 min Scan# 919
Delta R.T. 0.00 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

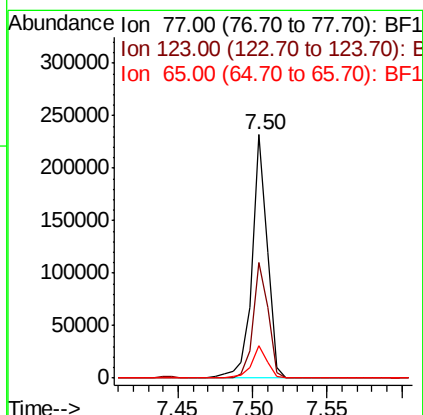
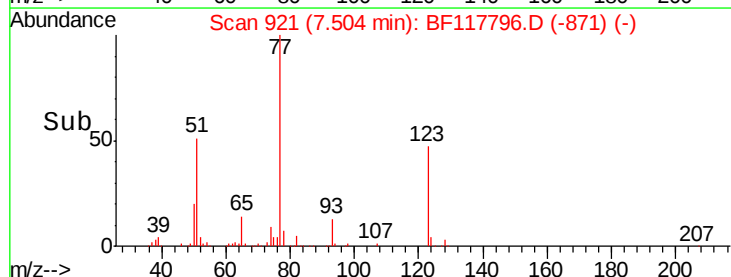
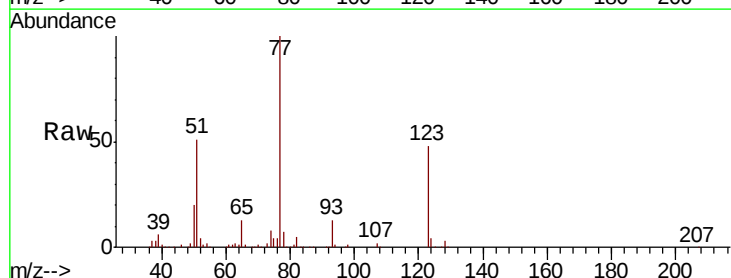
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019

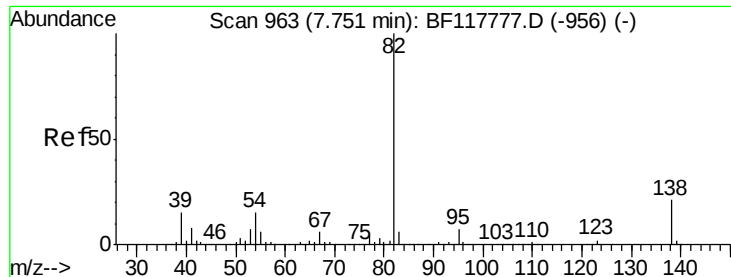
Tot Ion: 82 Resp: 1905944
Ion Ratio Lower Upper
82 100
128 49.8 38.9 58.3
54 52.1 39.8 59.6



#24
Nitrobenzene
Concen: 8.155 ng
RT: 7.50 min Scan# 921
Delta R.T. -0.01 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

Tgt Ion: 77 Resp: 162805
Ion Ratio Lower Upper
77 100
123 47.7 40.3 60.5
65 13.2 10.9 16.3





#25

Isophorone

Concen: 8.295 ng

RT: 7.74 min Scan# 961

Delta R.T. -0.01 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

Instrument :

BNA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019

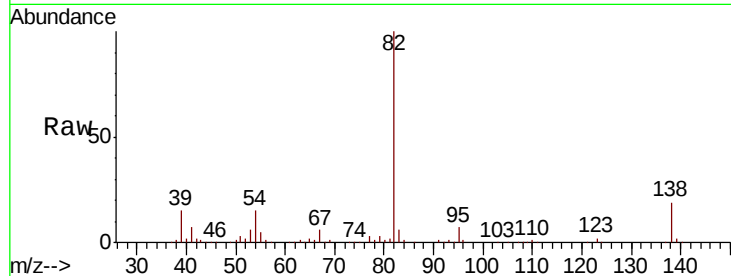
Tot Ion: 82 Resp: 294206

Ion Ratio Lower Upper

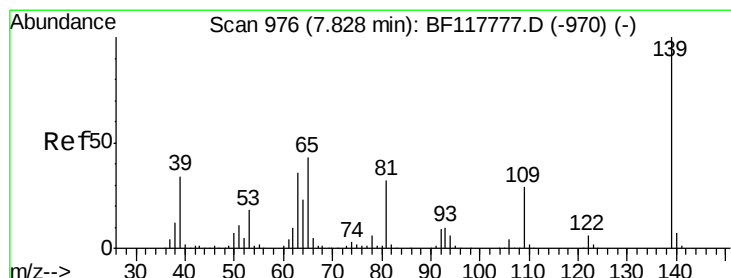
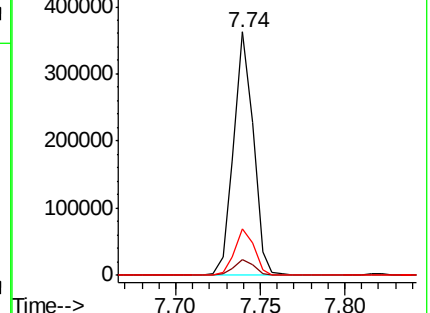
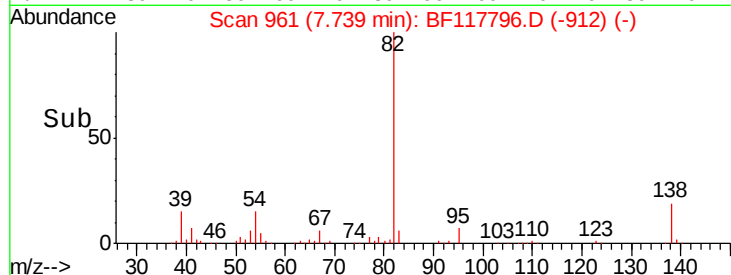
82 100

95 6.7 5.8 8.8

138 18.9 16.5 24.7



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 95.00 (94.70 to 95.70): BF1
Ion 138.00 (137.70 to 138.70): BF1



#26

2-Nitrophenol

Concen: 7.617 ng

RT: 7.82 min Scan# 975

Delta R.T. -0.01 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

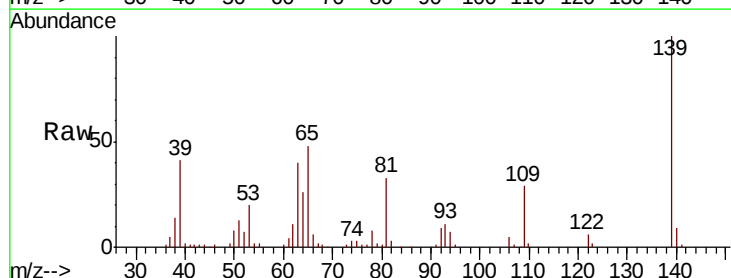
Tgt Ion: 139 Resp: 74014

Ion Ratio Lower Upper

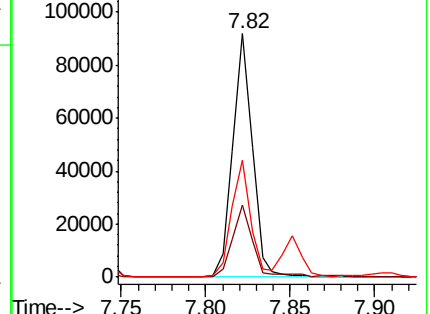
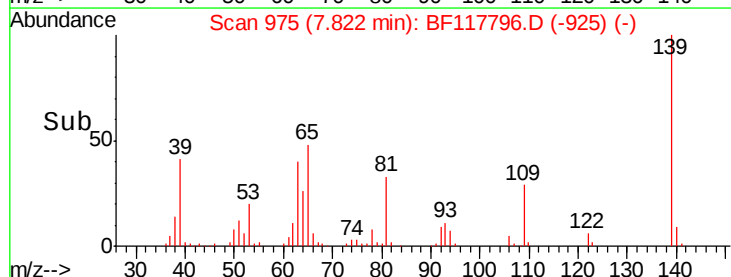
139 100

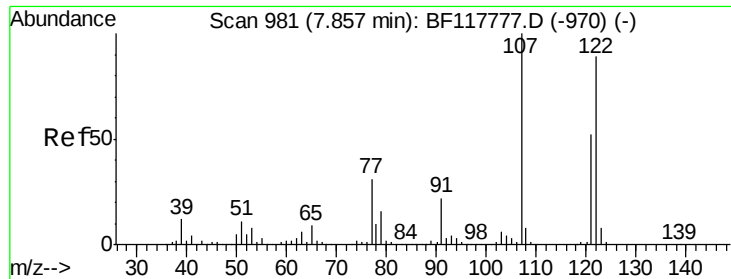
109 29.4 23.0 34.4

65 47.9 34.7 52.1



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





#27

2,4-Dimethylphenol

Concen: 8.783 ng

RT: 7.85 min Scan# 980

Delta R.T. -0.01 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

Instrument :

BNA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019

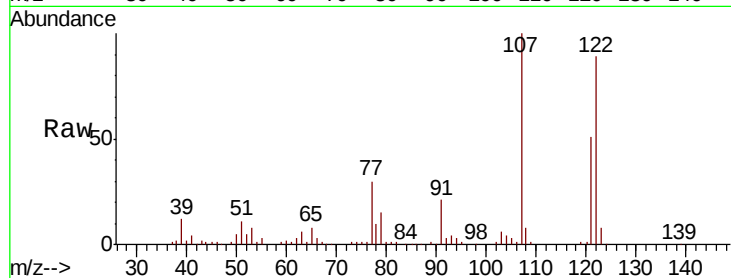
Tot Ion:122 Resp: 132604

Ion Ratio Lower Upper

122 100

107 112.6 90.0 135.0

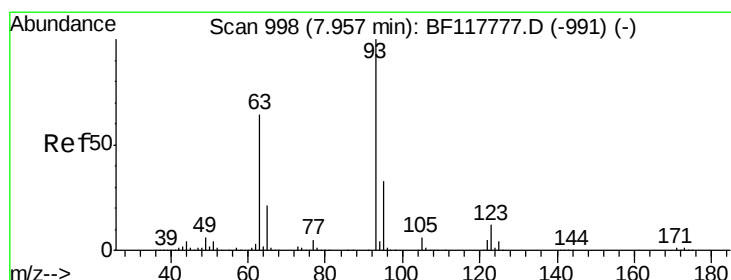
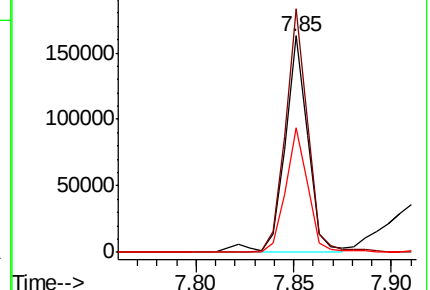
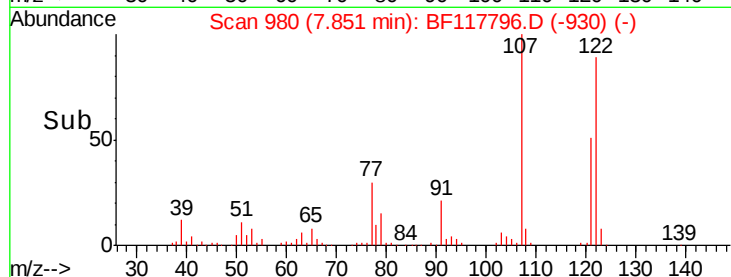
121 57.8 46.7 70.1



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: 8.175 ng

RT: 7.95 min Scan# 997

Delta R.T. -0.01 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

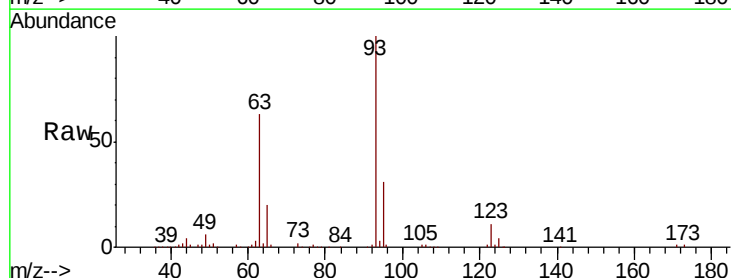
Tgt Ion: 93 Resp: 183996

Ion Ratio Lower Upper

93 100

95 31.4 26.6 40.0

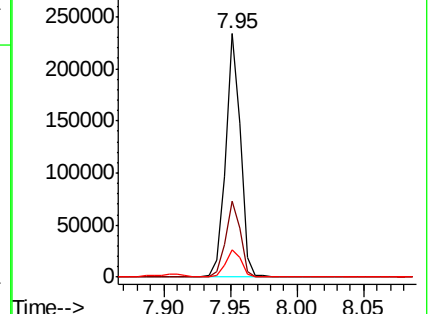
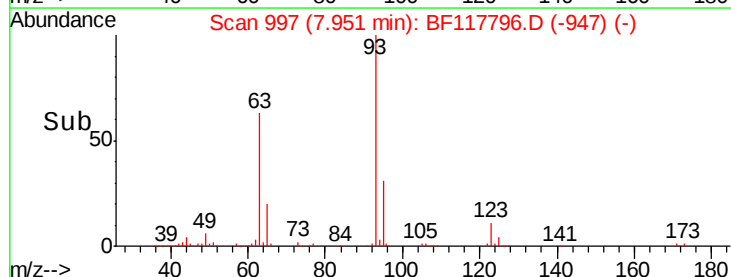
123 11.2 10.3 15.5

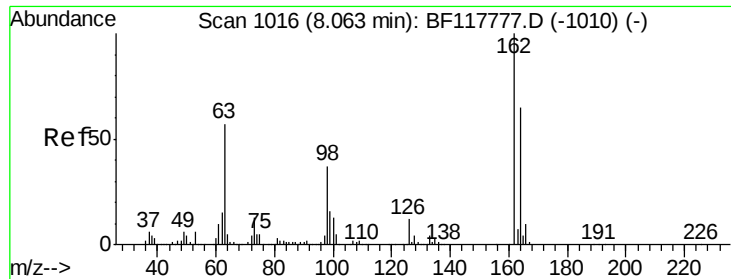


Abundance Ion 93.00 (92.70 to 93.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 123.00 (122.70 to 123.70): E

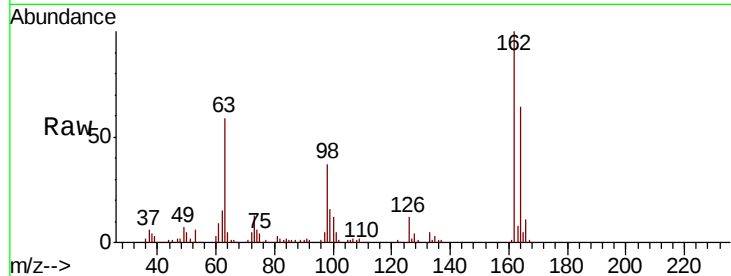




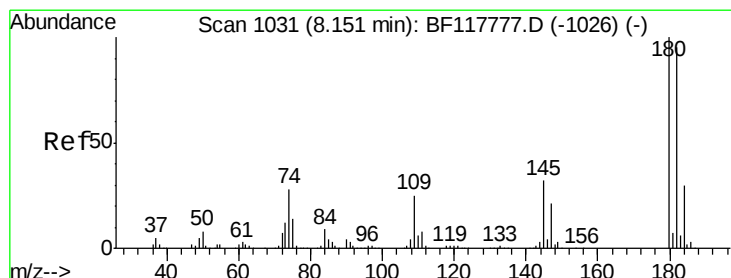
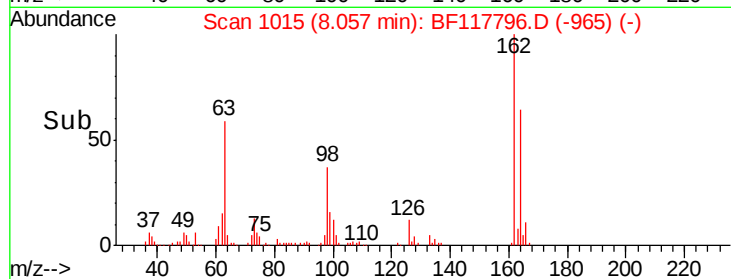
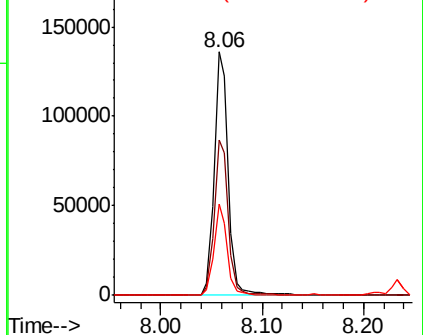
#29
2,4-Dichlorophenol
Concen: 7.985 ng
RT: 8.06 min Scan# 1015
Delta R.T. -0.01 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019

Tot Ion:162 Resp: 130771
Ion Ratio Lower Upper
162 100
164 63.6 45.1 85.1
98 37.3 17.2 57.2

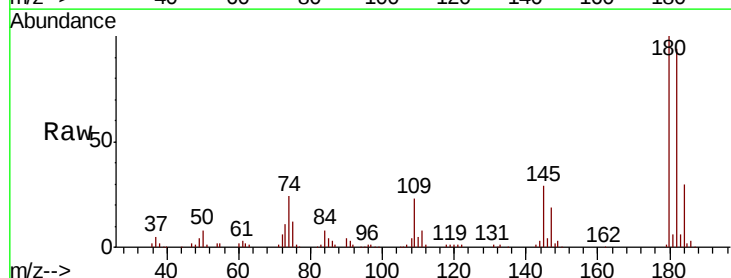


Abundance Ion 162.00 (161.70 to 162.70): E
Ion 164.00 (163.70 to 164.70): E
Ion 98.00 (97.70 to 98.70): BF1

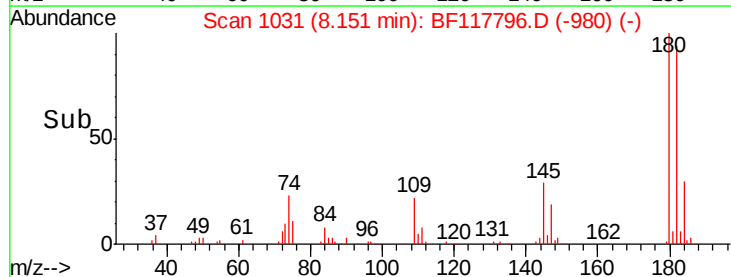
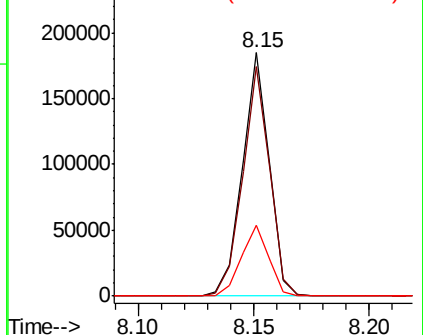


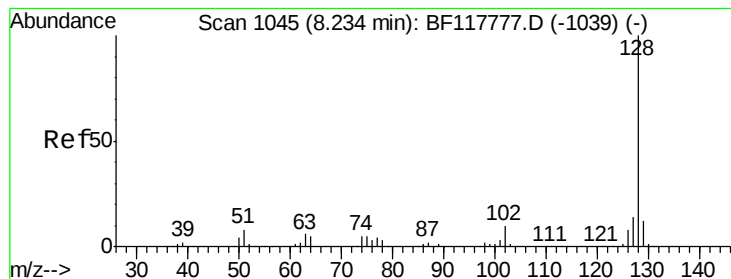
#30
1,2,4-Trichlorobenzene
Concen: 7.888 ng
RT: 8.15 min Scan# 1031
Delta R.T. 0.00 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

Tgt Ion:180 Resp: 149840
Ion Ratio Lower Upper
180 100
182 94.1 75.8 113.6
145 28.9 25.5 38.3



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





#31

Naphthalene

Concen: 8.719 ng

RT: 8.23 min Scan# 1045

Delta R.T. 0.00 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

Instrument :

BNA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019

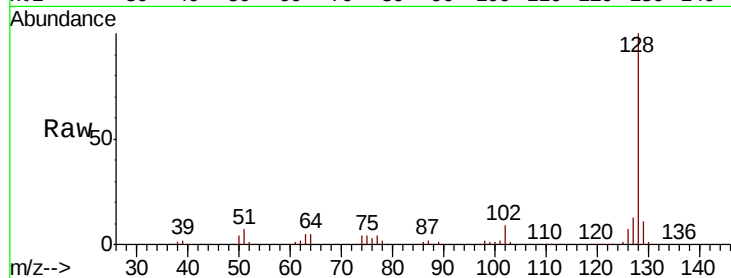
Tot Ion:128 Resp: 467569

Ion Ratio Lower Upper

128 100

129 11.1 9.5 14.3

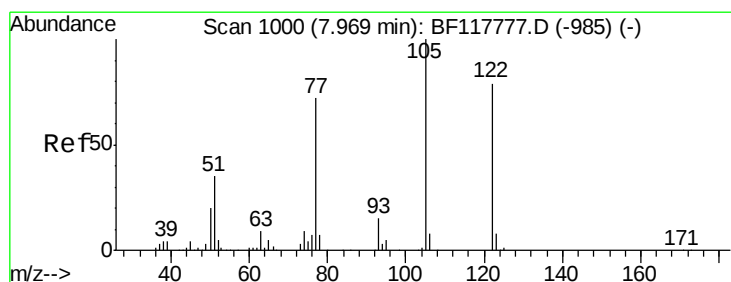
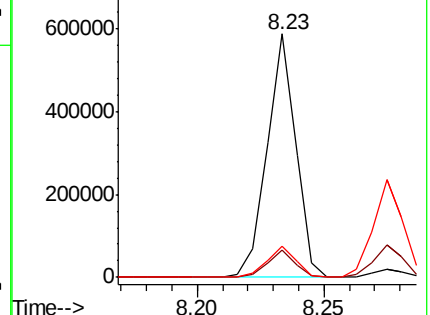
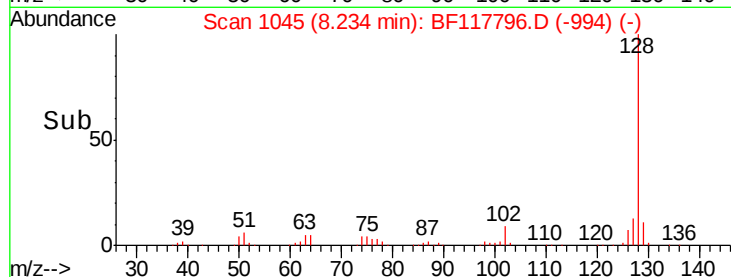
127 12.9 11.3 16.9



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 4.318 ng

RT: 7.91 min Scan# 990

Delta R.T. -0.06 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

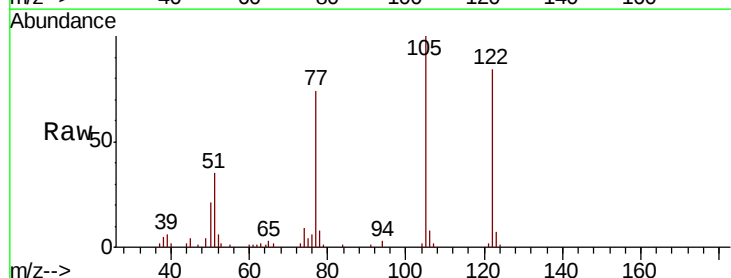
Tgt Ion:122 Resp: 54585

Ion Ratio Lower Upper

122 100

105 119.3 102.7 142.7

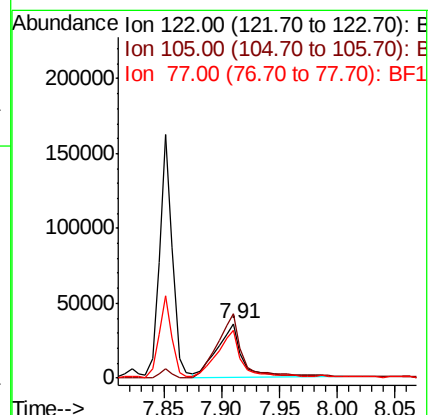
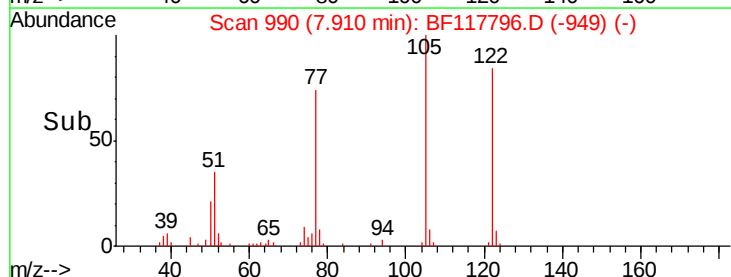
77 88.5 70.5 110.5



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1

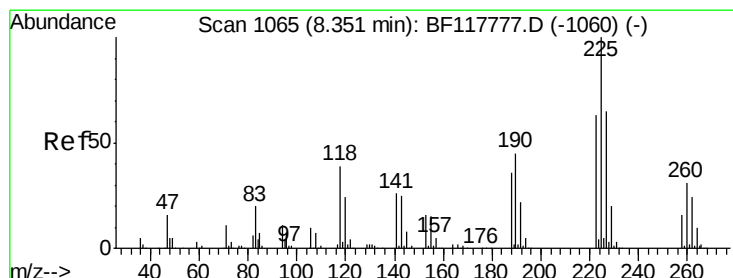
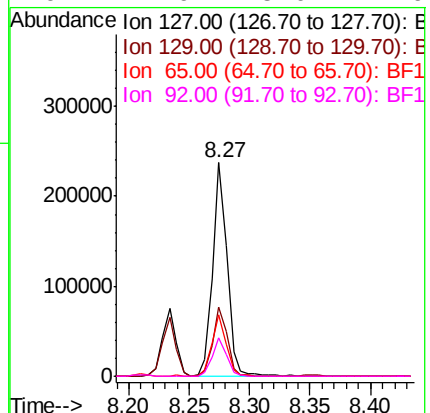
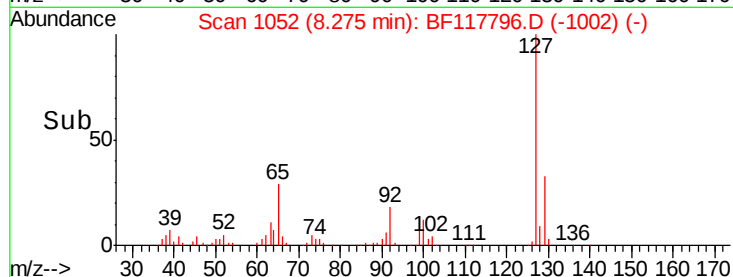
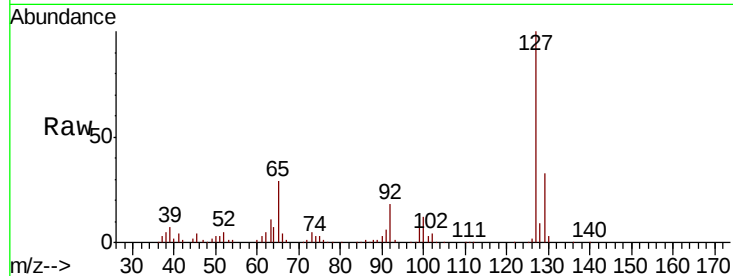




#33
4-Chloroaniline
Concen: 8.188 ng
RT: 8.27 min Scan# 1052
Delta R.T. -0.01 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

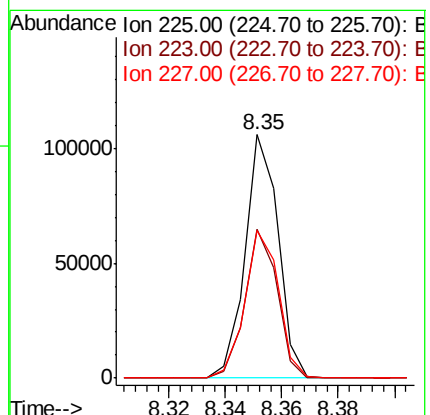
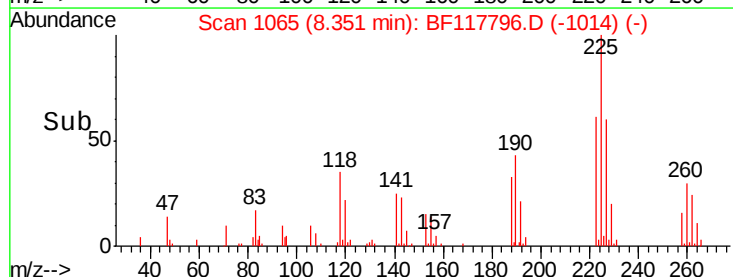
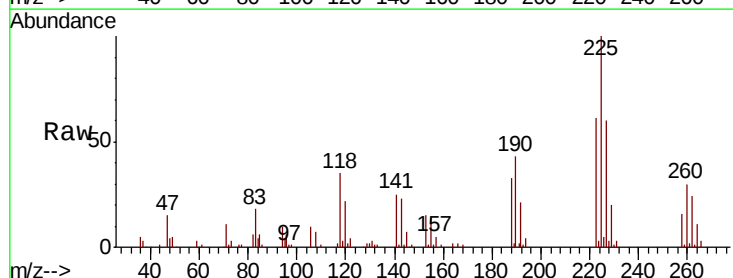
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019

Tot Ion:	127	Resp:	196576
Ion	Ratio	Lower	Upper
127	100		
129	32.6	26.5	39.7
65	28.5	22.9	34.3
92	17.9	15.0	22.6



#34
Hexachlorobutadiene
Concen: 7.736 ng
RT: 8.35 min Scan# 1065
Delta R.T. 0.00 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

Tgt Ion:	225	Resp:	85925
Ion	Ratio	Lower	Upper
225	100		
223	61.0	50.0	75.0
227	60.5	51.8	77.6

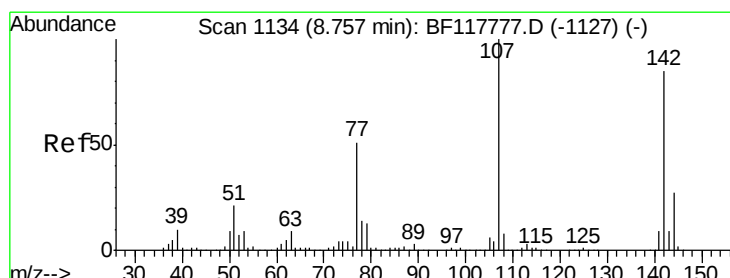
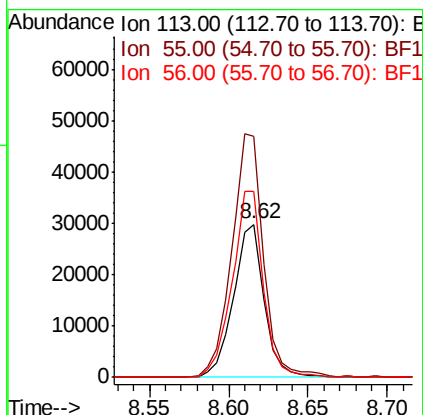
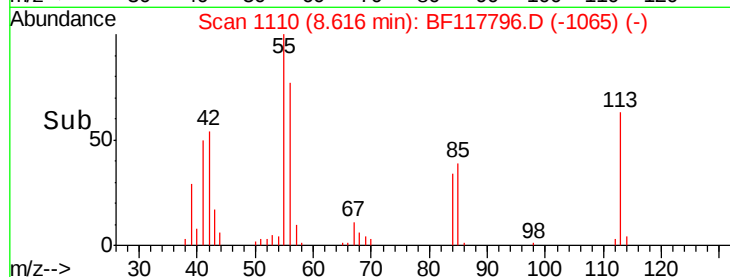
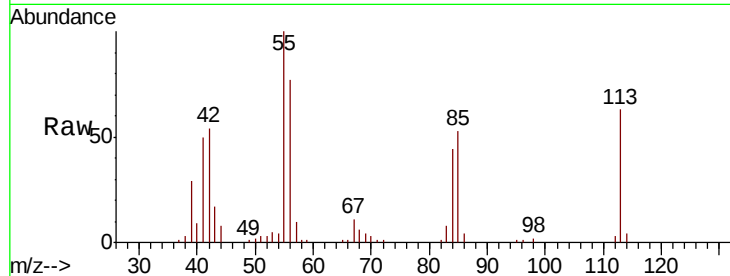




#35
Caprolactam
Concen: 7.647 ng
RT: 8.62 min Scan# 1110
Delta R.T. -0.04 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

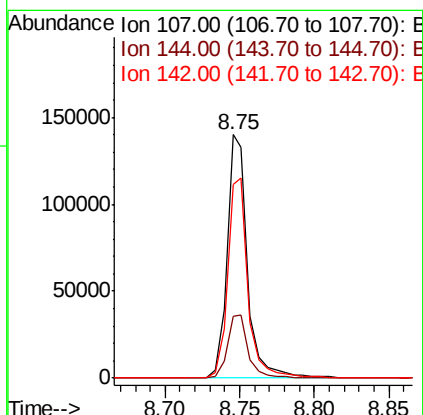
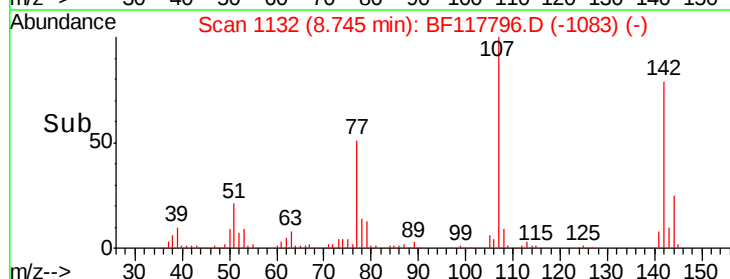
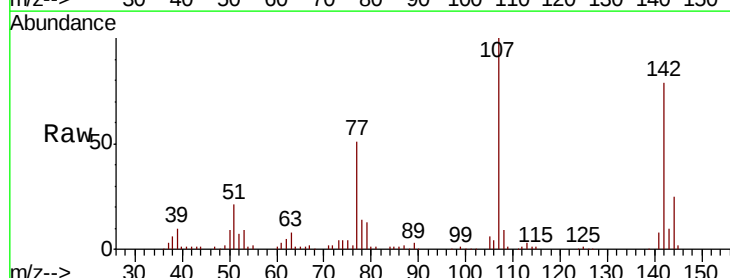
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019

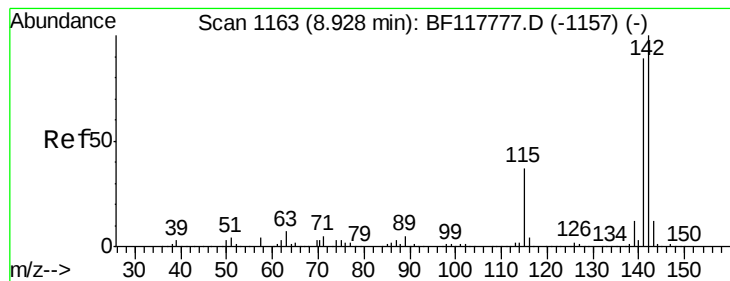
Tot Ion:113 Resp: 39802
Ion Ratio Lower Upper
113 100
55 157.7 141.1 181.1
56 122.0 100.5 140.5



#36
4-Chloro-3-methylphenol
Concen: 8.176 ng
RT: 8.75 min Scan# 1132
Delta R.T. -0.01 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

Tgt Ion:107 Resp: 135893
Ion Ratio Lower Upper
107 100
144 25.4 21.9 32.9
142 79.4 67.7 101.5





#37

2-Methylnaphthalene

Concen: 8.967 ng

RT: 8.93 min Scan# 1163

Delta R.T. 0.00 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

Instrument :

BNA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019

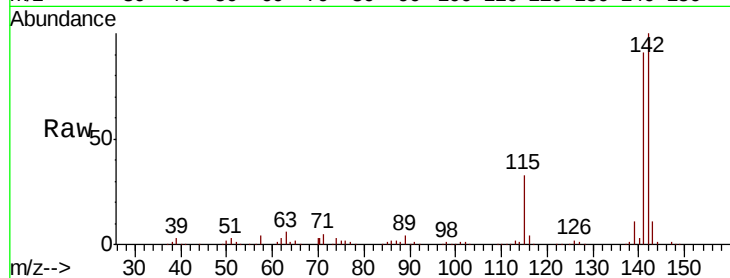
Tot Ion:142 Resp: 324911

Ion Ratio Lower Upper

142 100

141 91.3 71.1 106.7

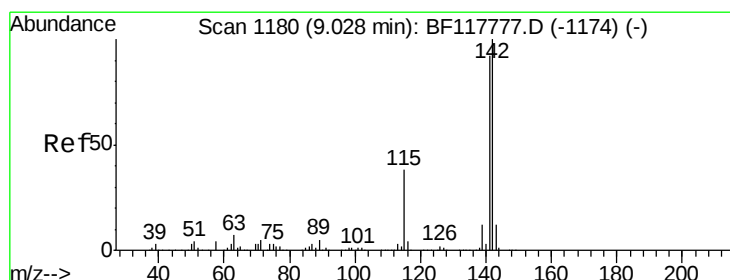
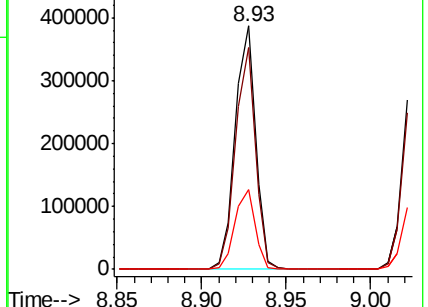
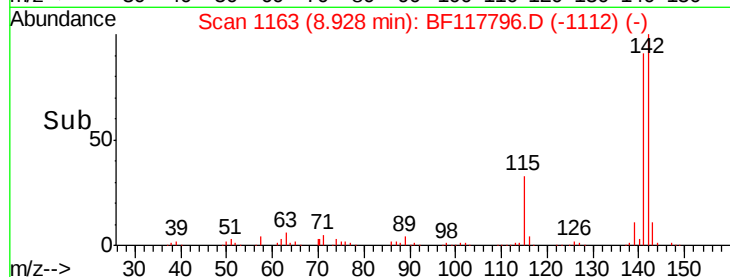
115 32.9 29.2 43.8



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

1-Methylnaphthalene

Concen: 8.999 ng

RT: 9.03 min Scan# 1180

Delta R.T. 0.00 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

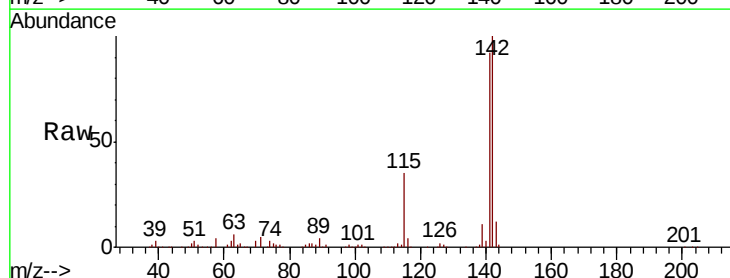
Tgt Ion:142 Resp: 308278

Ion Ratio Lower Upper

142 100

141 92.4 73.5 110.3

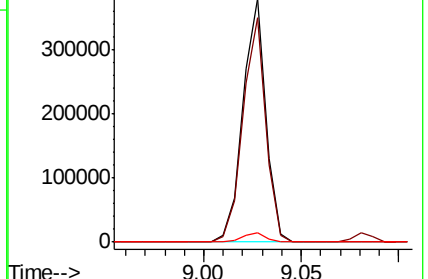
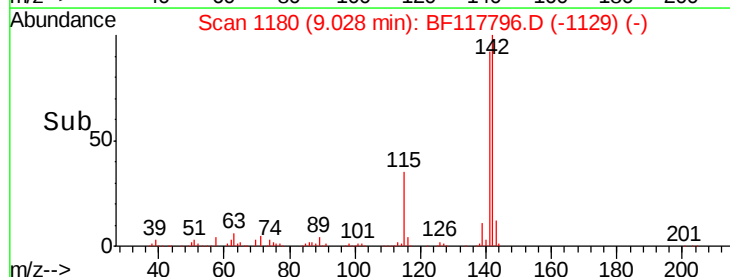
116 3.6 3.2 4.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E

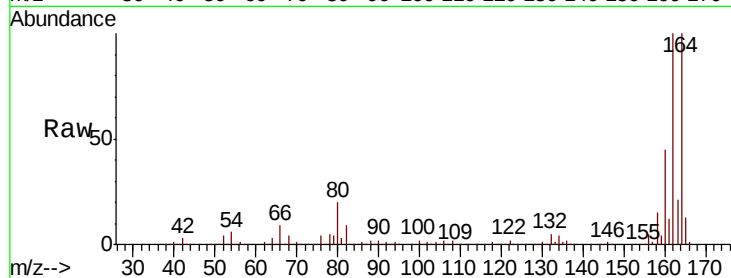




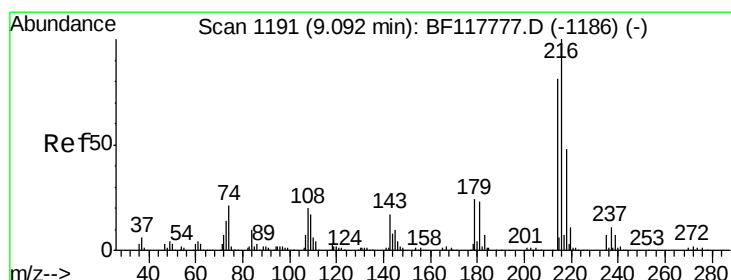
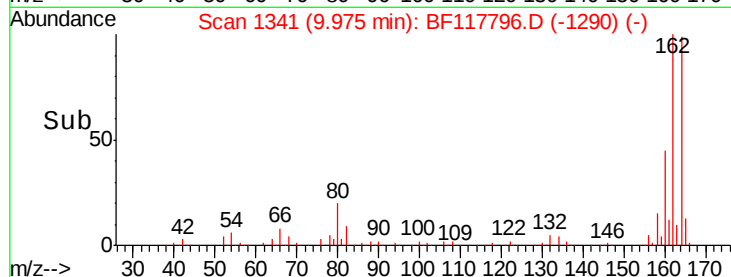
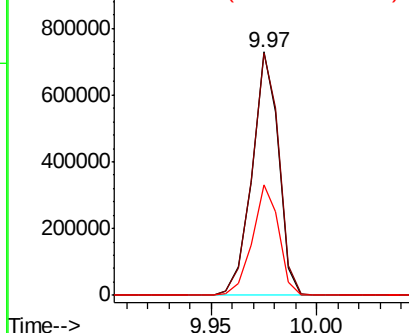
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.97 min Scan# 1341
Delta R.T. 0.00 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019

Tot Ion:164 Resp: 635810
Ion Ratio Lower Upper
164 100
162 99.8 81.3 121.9
160 45.2 36.6 55.0

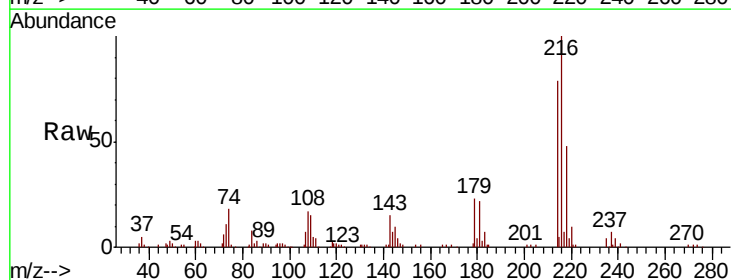


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

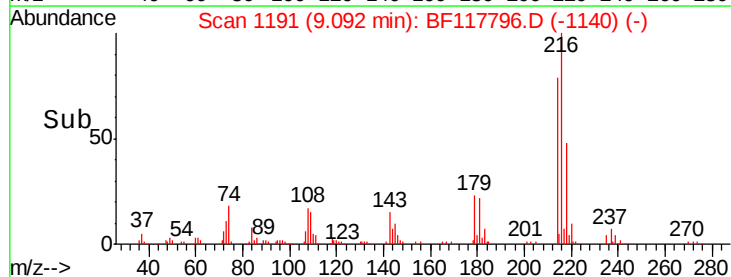
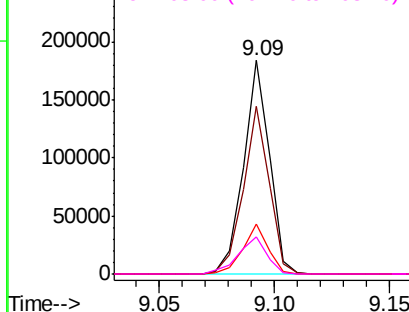


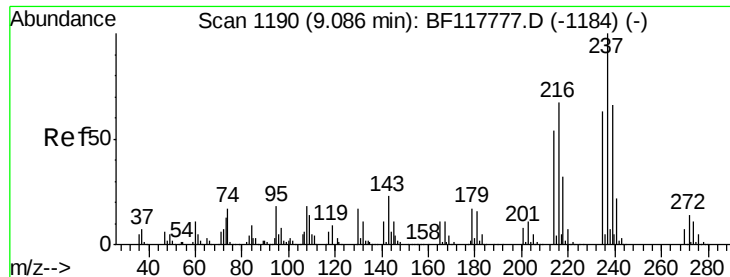
#40
1,2,4,5-Tetrachlorobenzene
Concen: 7.812 ng
RT: 9.09 min Scan# 1191
Delta R.T. 0.00 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

Tgt Ion:216 Resp: 144244
Ion Ratio Lower Upper
216 100
214 78.0 63.4 95.0
179 22.5 18.2 27.4
108 19.3 16.0 24.0



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

Hexachlorocyclopentadiene

Concen: 7.740 ng

RT: 9.08 min Scan# 1189

Delta R.T. -0.01 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

Instrument :

BNA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019

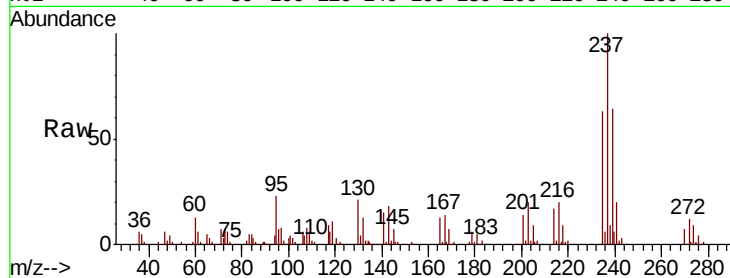
Tot Ion:237 Resp: 80085

Ion Ratio Lower Upper

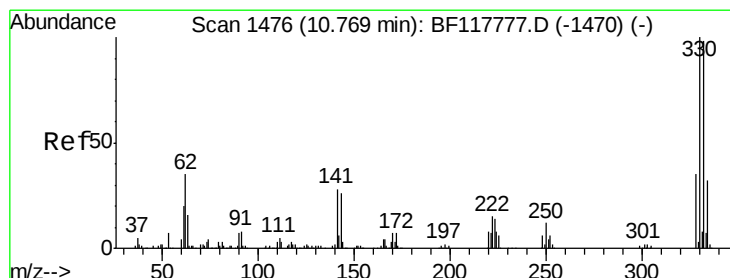
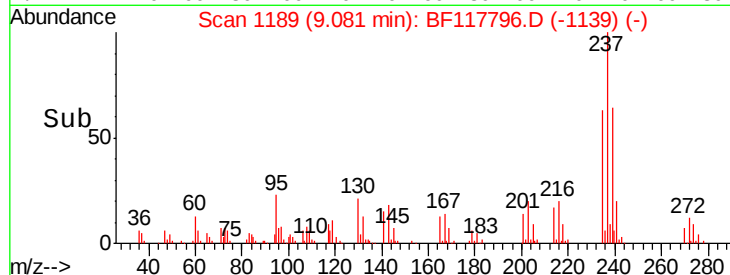
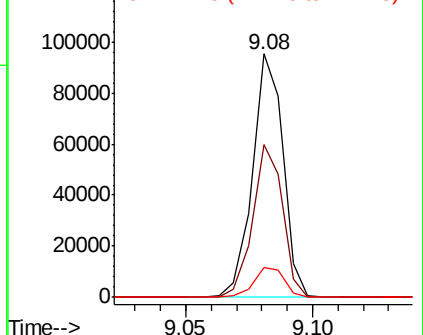
237 100

235 62.7 42.6 82.6

272 12.5 0.0 34.3



Abundance Ion 236.80 (236.50 to 237.50): E
Ion 234.90 (234.60 to 235.60): E
Ion 271.75 (271.45 to 272.45): E



#42

2,4,6-Tribromophenol

Concen: 136.285 ng

RT: 10.77 min Scan# 1476

Delta R.T. 0.00 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

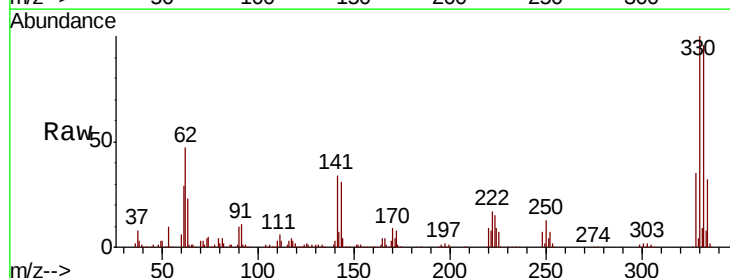
Tgt Ion:330 Resp: 917370

Ion Ratio Lower Upper

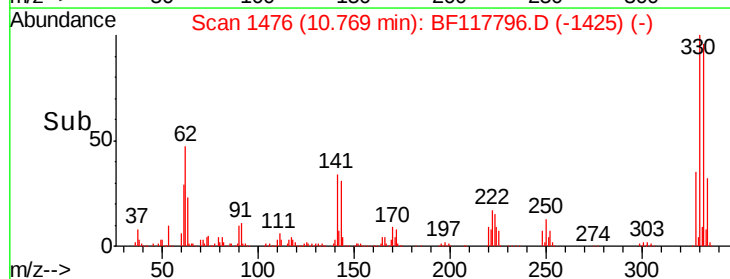
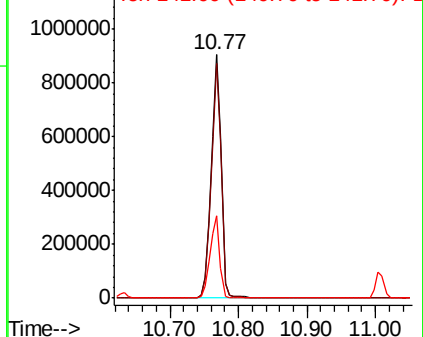
330 100

332 96.2 76.7 115.1

141 33.4 27.7 41.5



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

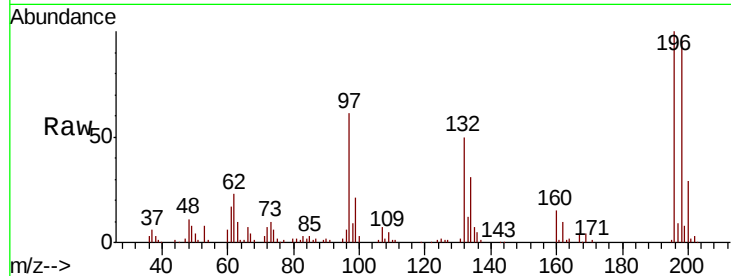




#43
 2,4,6-Trichlorophenol
 Concen: 7.160 ng
 RT: 9.20 min Scan# 1209
 Delta R.T. -0.01 min
 Lab File: BF117796.D
 Acq: 15 Nov 2019 10:08

Instrument :
 BNA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019

Tot Ion	196	Resp	94691
Ion	Ratio	Lower	Upper
196	100		
198	95.5	77.8	116.6
200	29.4	25.4	38.0

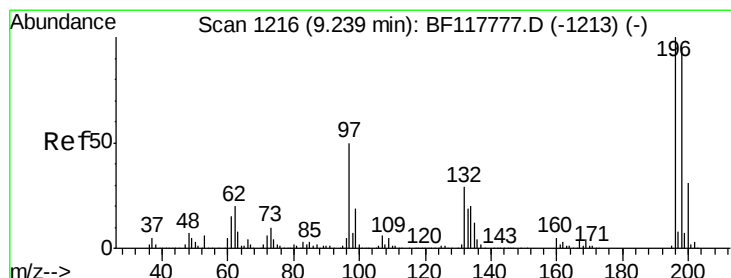
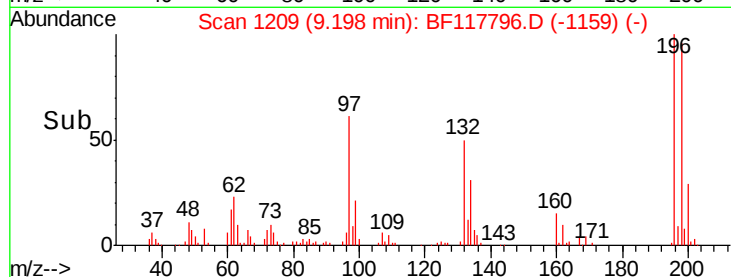
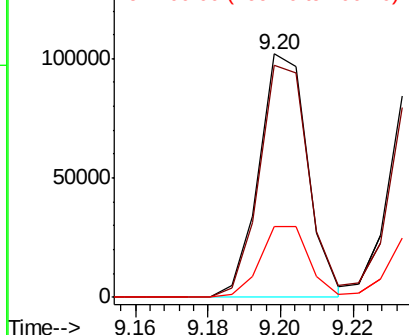


Abundance

Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

Ion 200.00 (199.70 to 200.70): E



#44
 2,4,5-Trichlorophenol
 Concen: 7.554 ng
 RT: 9.24 min Scan# 1216
 Delta R.T. 0.00 min
 Lab File: BF117796.D
 Acq: 15 Nov 2019 10:08

Tgt Ion	196	Resp	103723
Ion	Ratio	Lower	Upper
196	100		
198	95.0	76.3	114.5
97	43.7	40.0	60.0
132	28.2	23.6	35.4

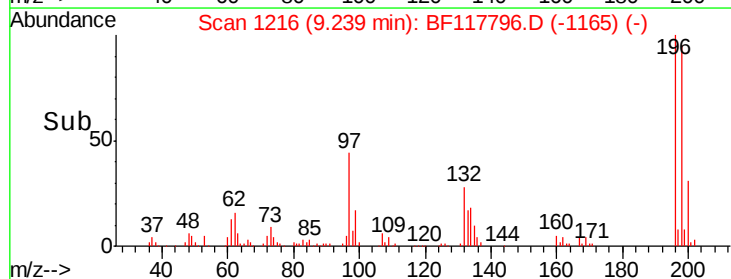
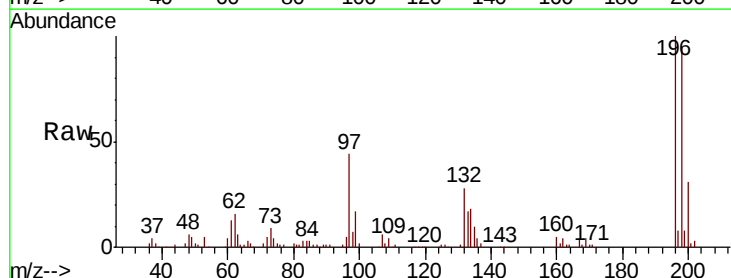
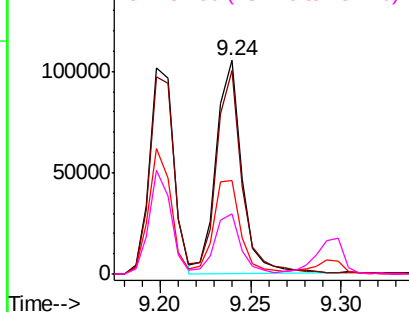
Abundance

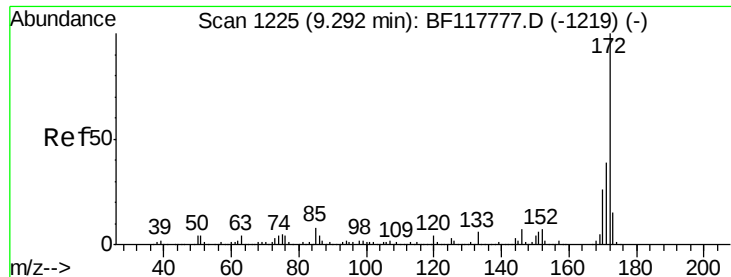
Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

Ion 97.00 (96.70 to 97.70): BF1

Ion 132.00 (131.70 to 132.70): E

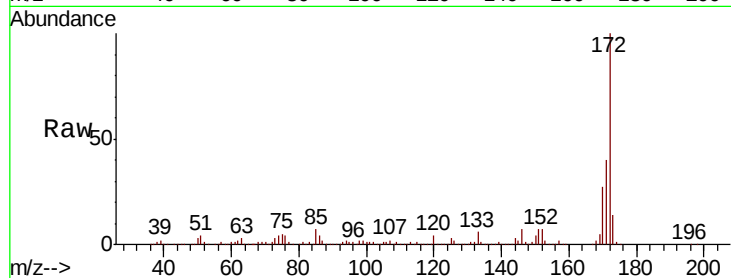




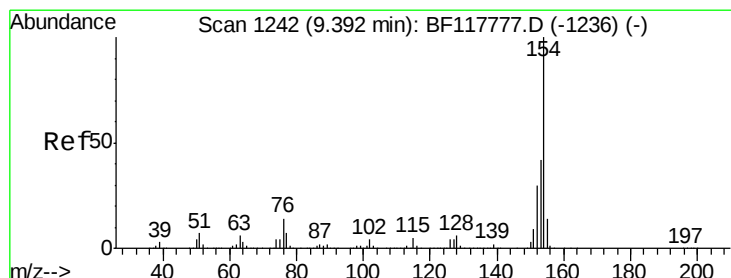
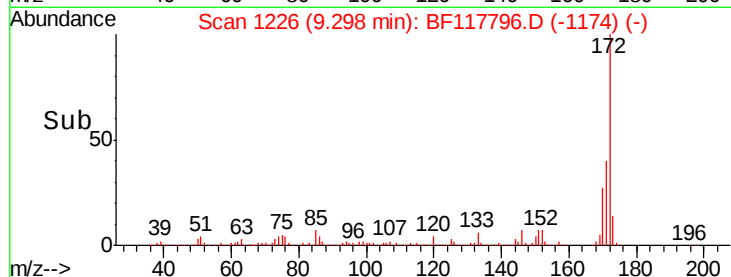
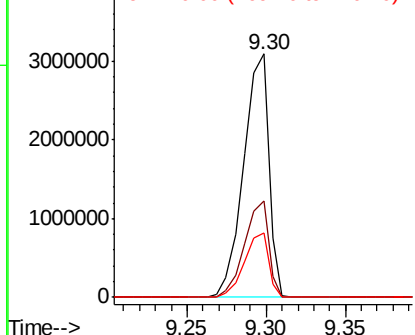
#45
 2-Fluorobiphenyl
 Concen: 95.861 ng
 RT: 9.30 min Scan# 1226
 Delta R.T. 0.01 min
 Lab File: BF117796.D
 Acq: 15 Nov 2019 10:08

Instrument :
 BNA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019

Tot Ion:172 Resp: 3397336
 Ion Ratio Lower Upper
 172 100
 171 39.5 30.9 46.3
 170 26.7 21.0 31.4

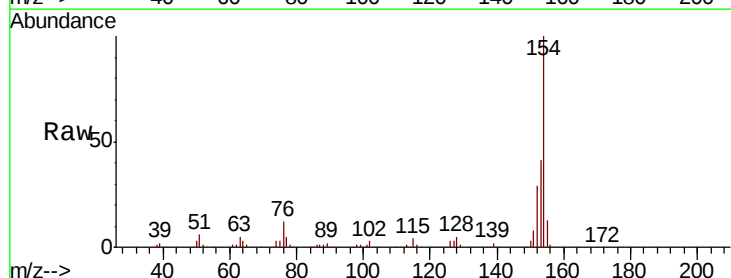


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

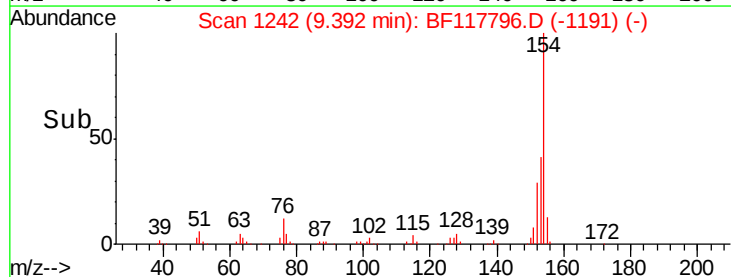
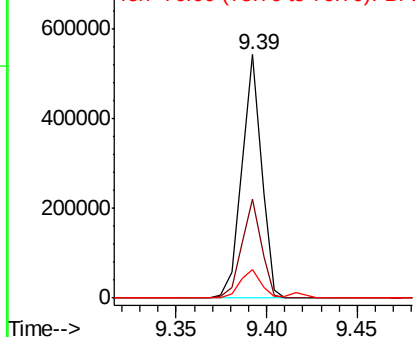


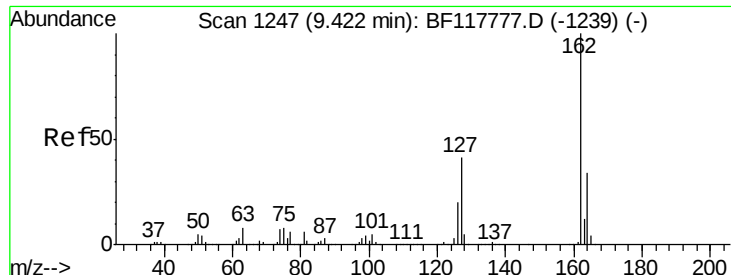
#46
 1,1'-Biphenyl
 Concen: 8.687 ng
 RT: 9.39 min Scan# 1242
 Delta R.T. 0.00 min
 Lab File: BF117796.D
 Acq: 15 Nov 2019 10:08

Tgt Ion:154 Resp: 409795
 Ion Ratio Lower Upper
 154 100
 153 40.7 21.9 61.9
 76 11.9 0.0 33.6



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





#47

2-Chloronaphthalene

Concen: 7.889 ng

RT: 9.42 min Scan# 1246

Delta R.T. -0.01 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

Instrument :

BNA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019

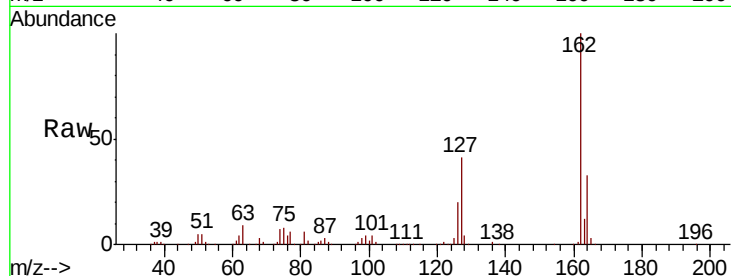
Tot Ion: 162 Resp: 306131

Ion Ratio Lower Upper

162 100

127 41.3 33.2 49.8

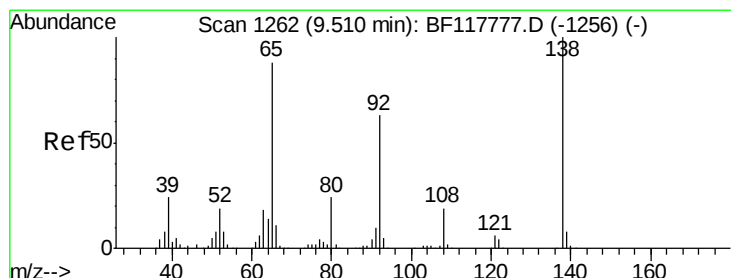
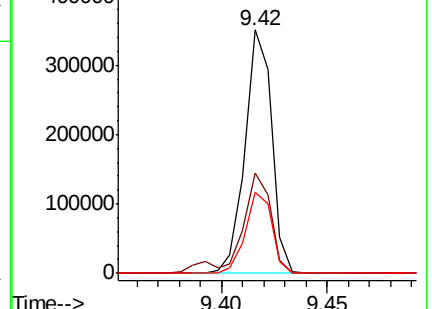
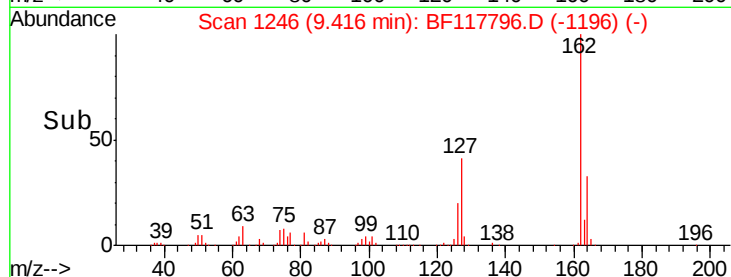
164 33.1 27.3 40.9



Abundance Ion 162.00 (161.70 to 162.70): E

Ion 127.00 (126.70 to 127.70): E

Ion 164.00 (163.70 to 164.70): E



#48

2-Nitroaniline

Concen: 7.044 ng

RT: 9.50 min Scan# 1261

Delta R.T. -0.01 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

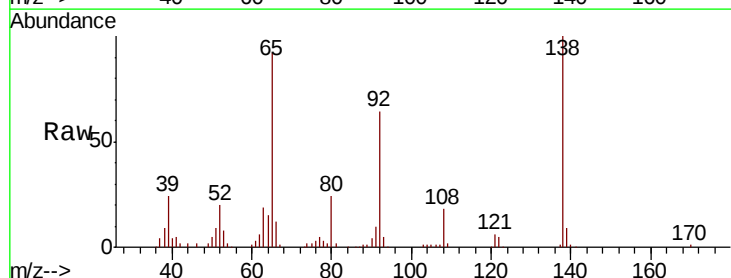
Tgt Ion: 65 Resp: 82521

Ion Ratio Lower Upper

65 100

92 69.7 56.6 84.8

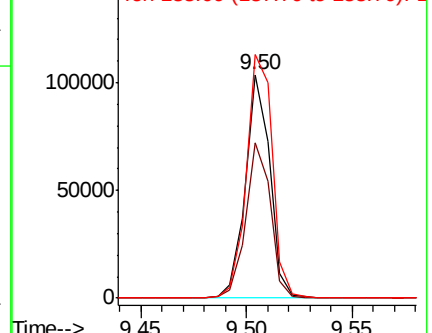
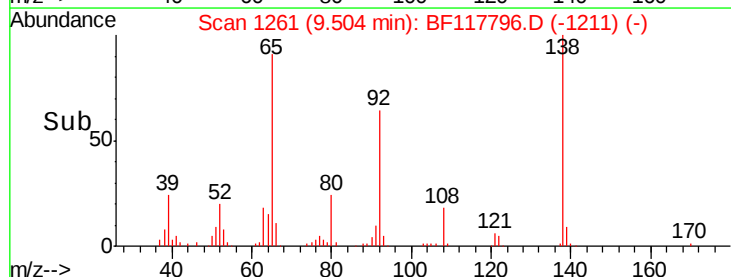
138 109.0 90.5 135.7

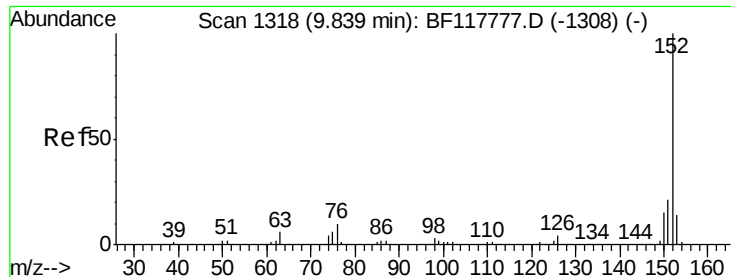


Abundance Ion 65.00 (64.70 to 65.70): BF1

Ion 92.00 (91.70 to 92.70): BF1

Ion 138.00 (137.70 to 138.70): E





#49

Acenaphthylene

Concen: 8.759 ng

RT: 9.83 min Scan# 1317

Delta R.T. -0.01 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

Instrument :

BNA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019

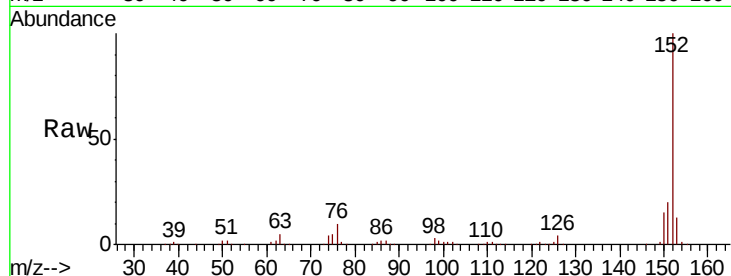
Tot Ion:152 Resp: 495564

Ion Ratio Lower Upper

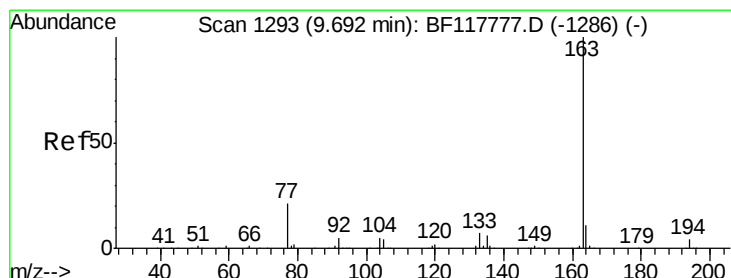
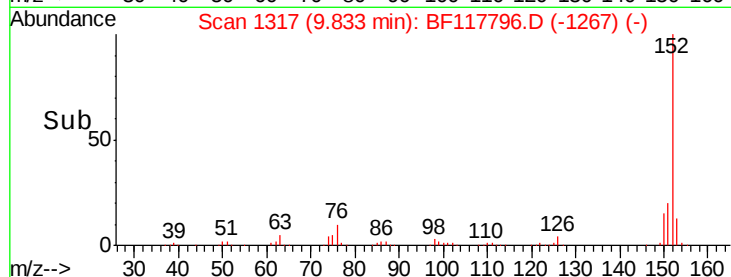
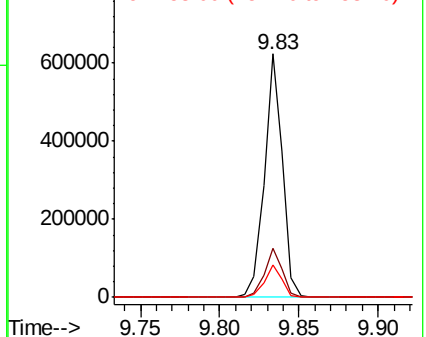
152 100

151 20.1 17.0 25.6

153 13.3 11.0 16.6



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 8.280 ng

RT: 9.69 min Scan# 1292

Delta R.T. -0.01 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

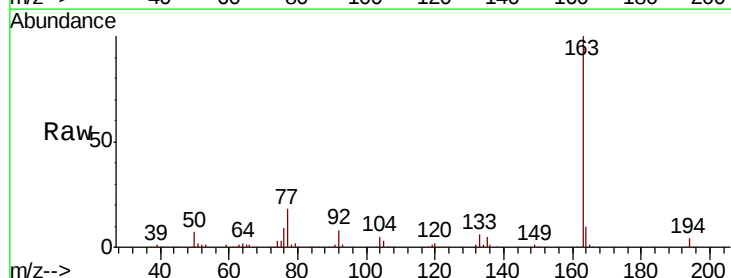
Tgt Ion:163 Resp: 369163

Ion Ratio Lower Upper

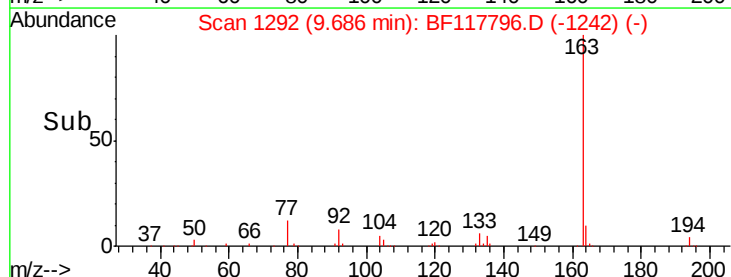
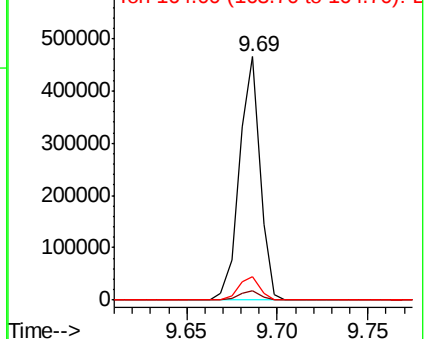
163 100

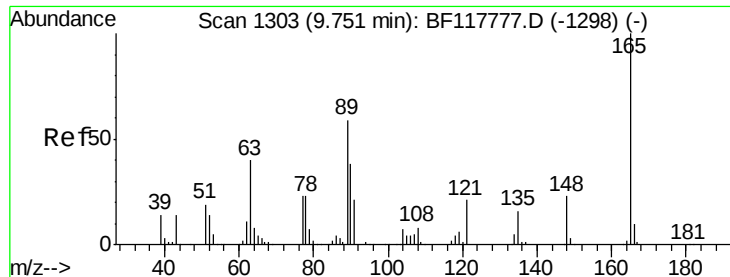
194 4.0 3.3 4.9

164 9.9 8.7 13.1



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

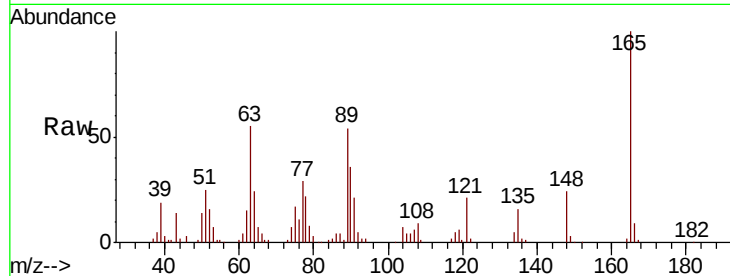




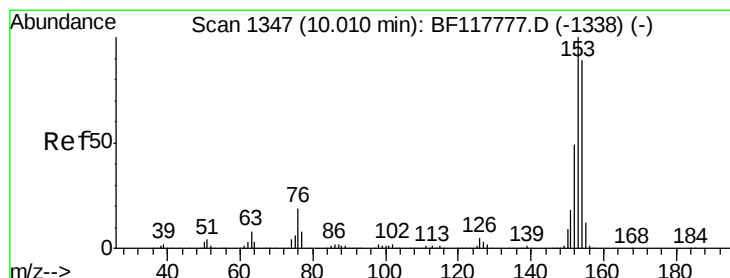
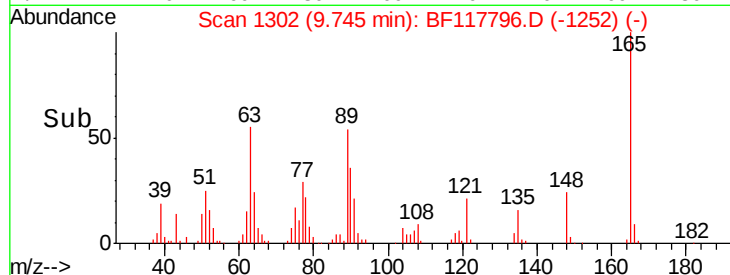
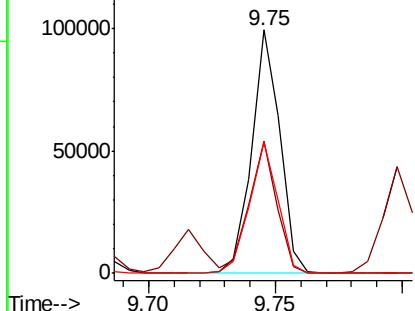
#51
2,6-Dinitrotoluene
Concen: 7.910 ng
RT: 9.75 min Scan# 1302
Delta R.T. -0.01 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019

Tot Ion:165 Resp: 77075
Ion Ratio Lower Upper
165 100
63 54.5 46.0 69.0
89 53.9 47.7 71.5

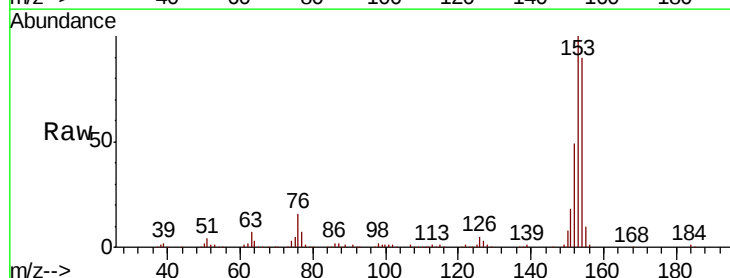


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1

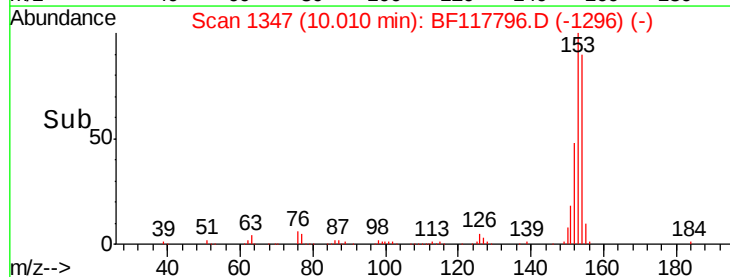
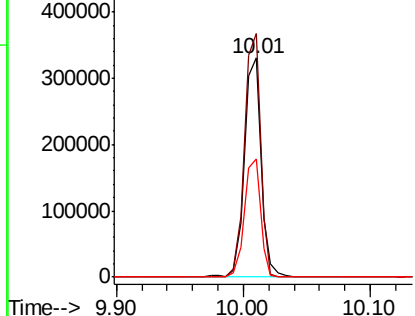


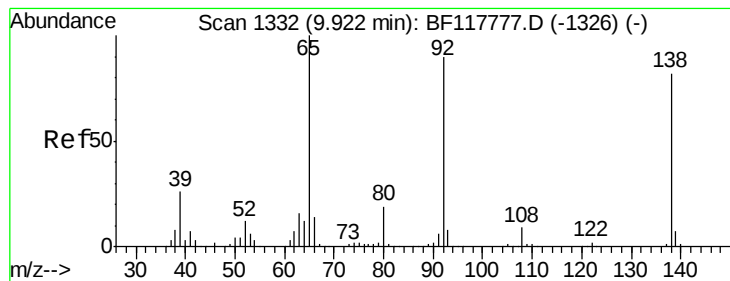
#52
Acenaphthene
Concen: 8.324 ng
RT: 10.01 min Scan# 1347
Delta R.T. 0.00 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

Tgt Ion:154 Resp: 301676
Ion Ratio Lower Upper
154 100
153 111.2 90.1 135.1
152 54.1 44.0 66.0



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





#53

3-Nitroaniline

Concen: 7.061 ng

RT: 9.92 min Scan# 1331

Delta R.T. -0.01 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

Instrument :

BNA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019

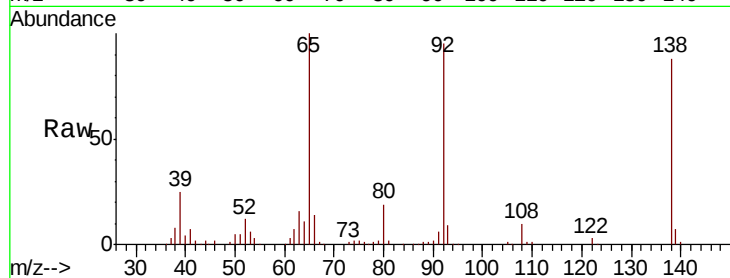
Tot Ion:138 Resp: 82332

Ion Ratio Lower Upper

138 100

108 10.8 8.6 12.8

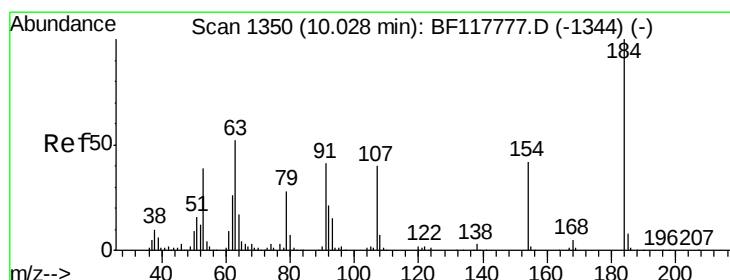
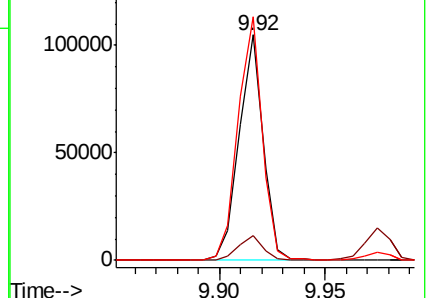
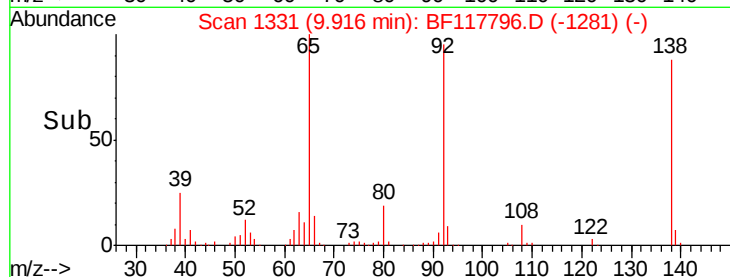
92 108.1 87.9 131.9



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF1



#54

2,4-Dinitrophenol

Concen: 11.532 ng

RT: 10.02 min Scan# 1349

Delta R.T. -0.01 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

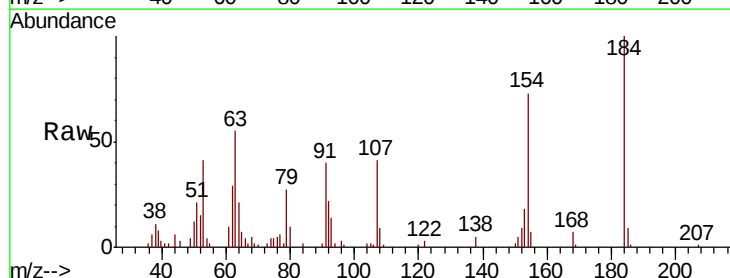
Tgt Ion:184 Resp: 23709

Ion Ratio Lower Upper

184 100

63 54.6 43.0 64.6

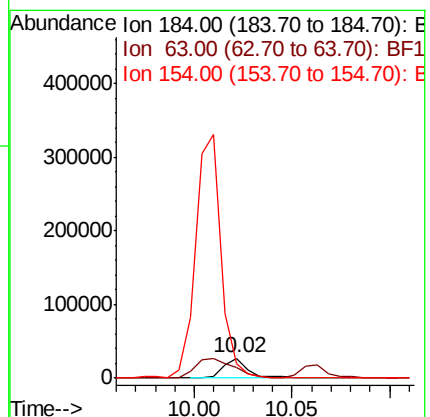
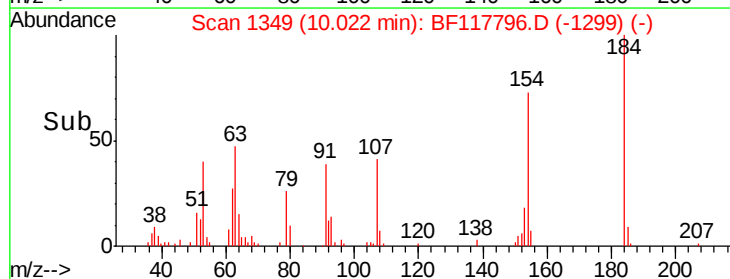
154 73.5 48.0 72.0#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 154.00 (153.70 to 154.70): E

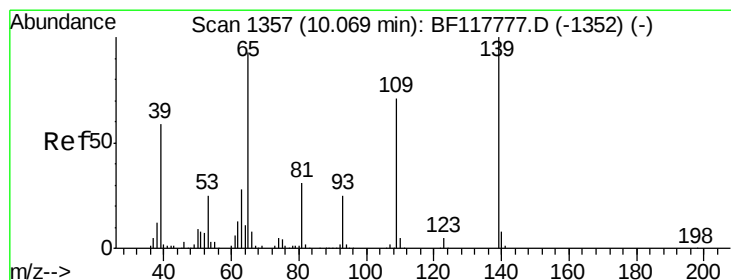
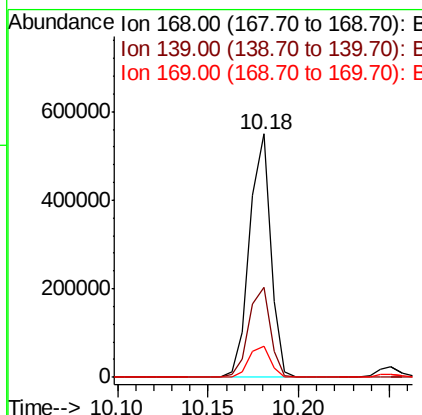
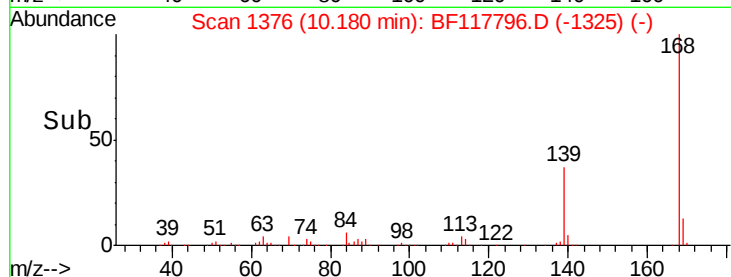
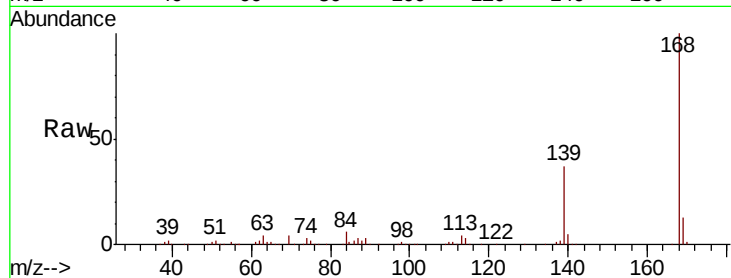




#55
Dibenzenofuran
Concen: 8.885 ng
RT: 10.18 min Scan# 1376
Delta R.T. 0.00 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

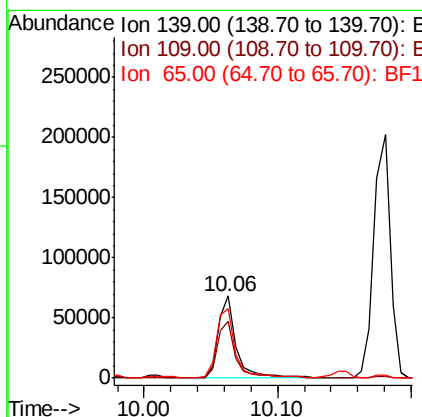
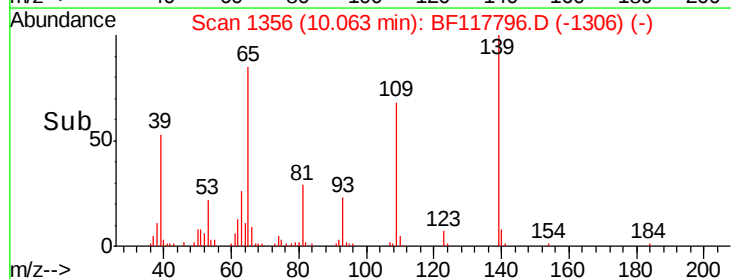
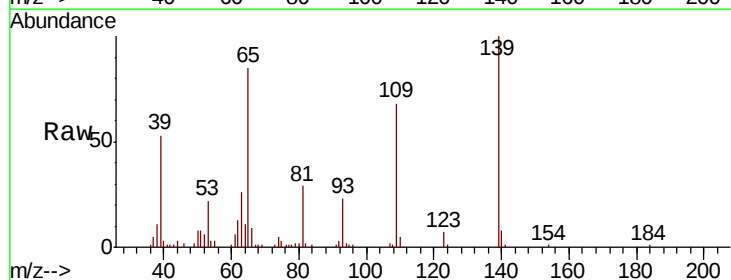
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019

Tot Ion:168 Resp: 445917
Ion Ratio Lower Upper
168 100
139 36.8 33.0 49.6
169 12.9 11.5 17.3



#56
4-Nitrophenol
Concen: 7.554 ng
RT: 10.06 min Scan# 1356
Delta R.T. -0.01 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

Tgt Ion:139 Resp: 65745
Ion Ratio Lower Upper
139 100
109 68.3 50.8 90.8
65 84.6 73.6 113.6

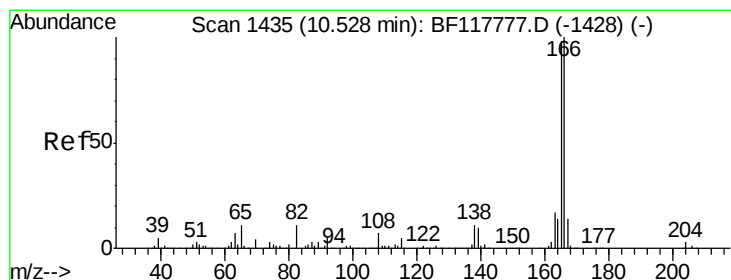
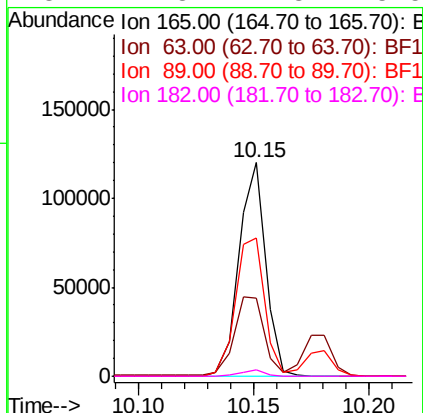
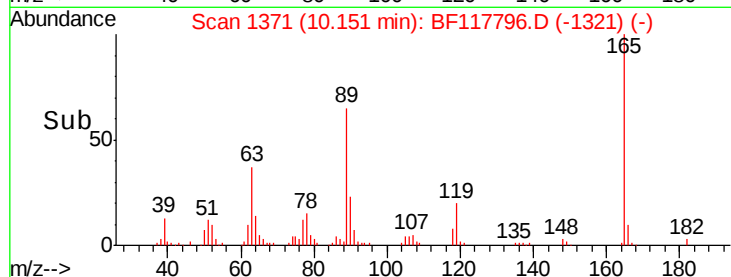
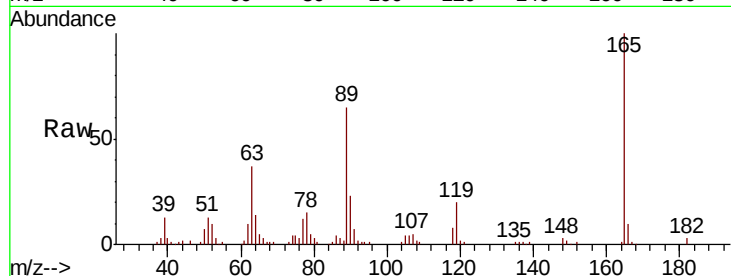




#57
2,4-Dinitrotoluene
Concen: 7.815 ng
RT: 10.15 min Scan# 1371
Delta R.T. -0.01 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

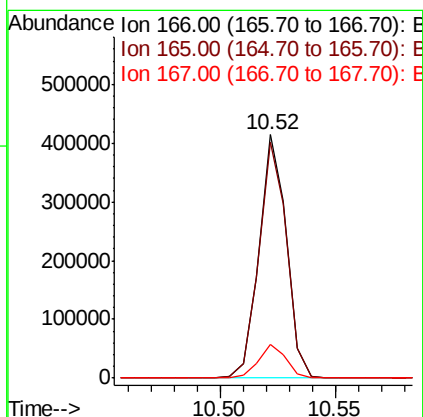
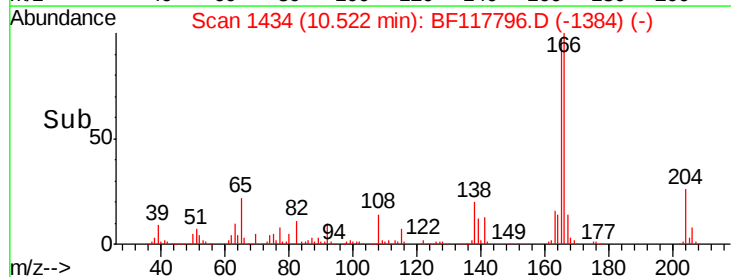
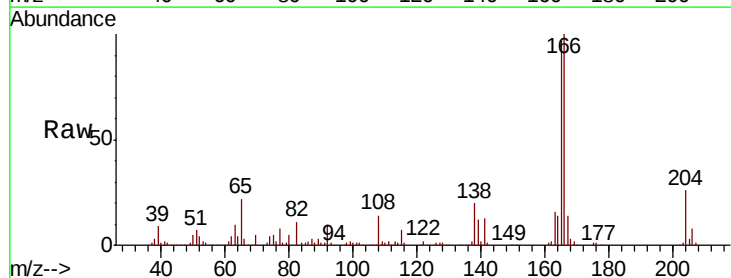
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019

Tot Ion:165 Resp: 96875
Ion Ratio Lower Upper
165 100
63 36.6 33.7 50.5
89 65.0 57.3 85.9
182 2.8 2.3 3.5



#58
Fluorene
Concen: 8.797 ng
RT: 10.52 min Scan# 1434
Delta R.T. -0.01 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

Tgt Ion:166 Resp: 342109
Ion Ratio Lower Upper
166 100
165 97.2 78.4 117.6
167 13.6 11.0 16.4

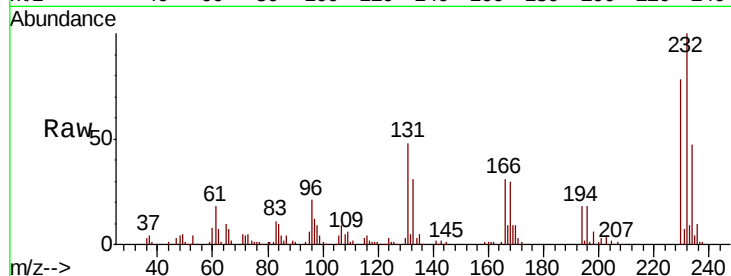




#59
 2,3,4,6-Tetrachlorophenol
 Concen: 7.974 ng
 RT: 10.29 min Scan# 1395
 Delta R.T. -0.01 min
 Lab File: BF117796.D
 Acq: 15 Nov 2019 10:08

Instrument :
 BNA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
232	100		
131	46.0	37.6	56.4
130	2.3	1.9	2.9
166	29.6	24.2	36.4



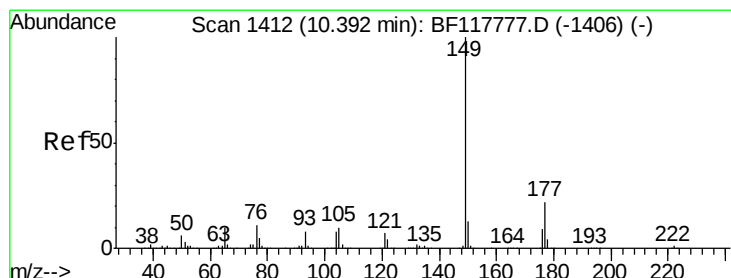
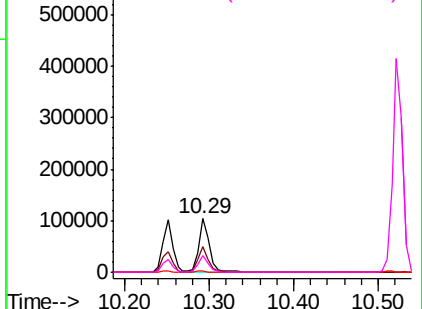
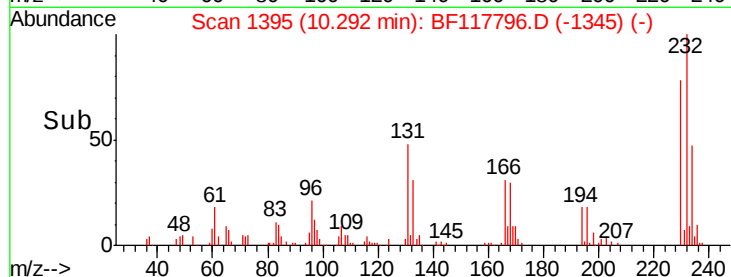
Abundance

Ion 232.00 (231.70 to 232.70): E

Ion 131.00 (130.70 to 131.70): E

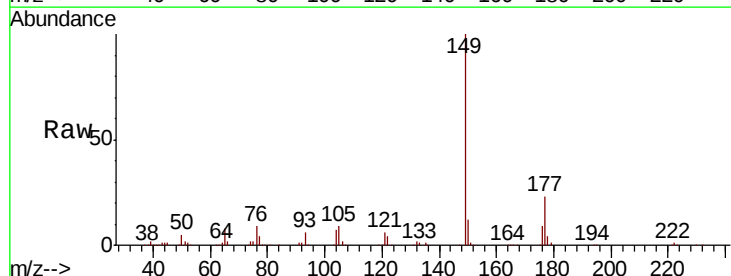
Ion 130.00 (129.70 to 130.70): E

Ion 166.00 (165.70 to 166.70): E



#60
 Diethylphthalate
 Concen: 8.389 ng
 RT: 10.39 min Scan# 1412
 Delta R.T. 0.00 min
 Lab File: BF117796.D
 Acq: 15 Nov 2019 10:08

Tgt Ion	Ratio	Lower	Upper
149	100		
177	23.2	18.0	27.0
150	12.3	10.5	15.7

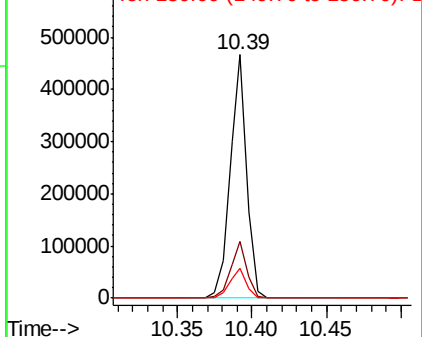
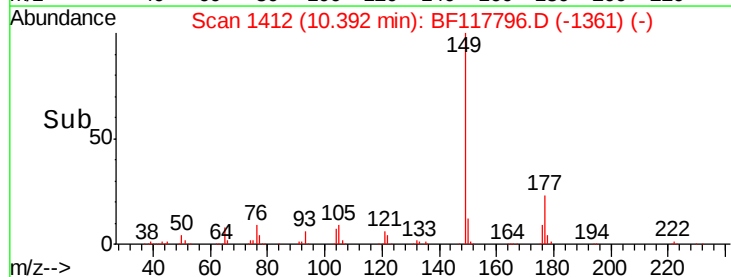


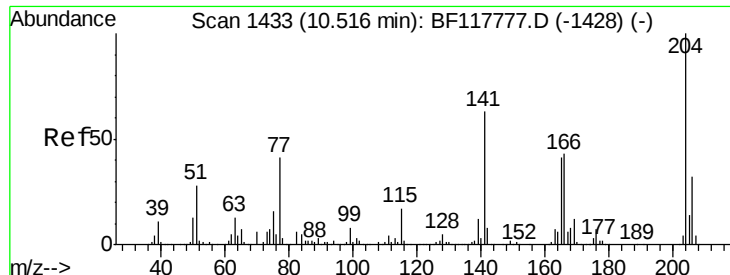
Abundance

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

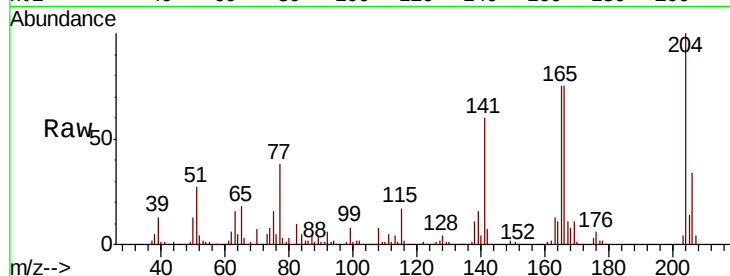




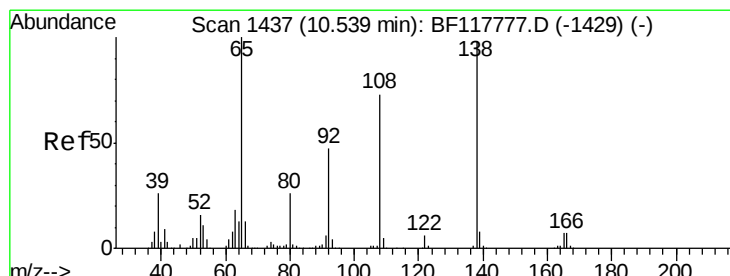
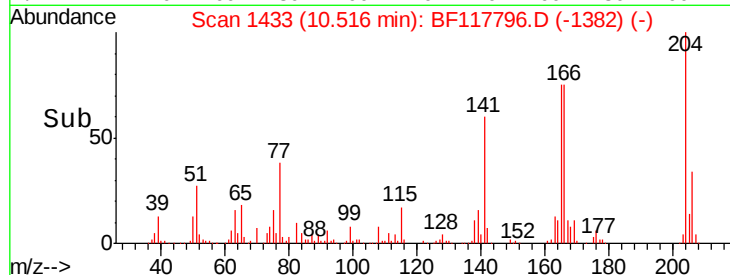
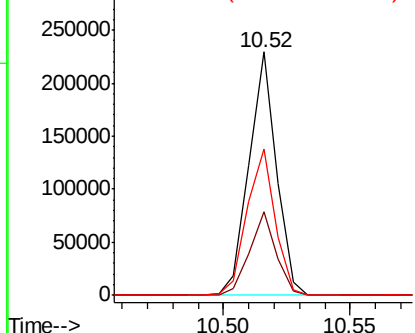
#61
 4-Chlorophenyl-phenylether
 Concen: 8.762 ng
 RT: 10.52 min Scan# 1433
 Delta R.T. 0.00 min
 Lab File: BF117796.D
 Acq: 15 Nov 2019 10:08

Instrument :
 BNA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019

Tot Ion:204 Resp: 172935
 Ion Ratio Lower Upper
 204 100
 206 34.1 25.6 38.4
 141 60.0 50.7 76.1

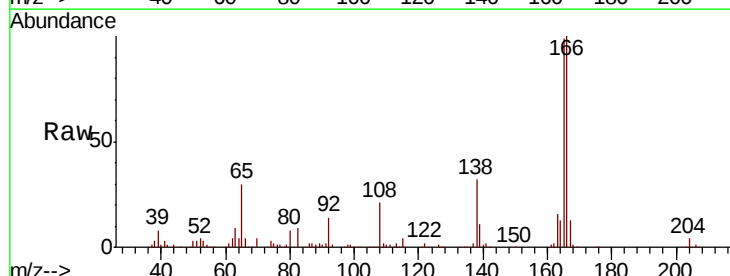


Abundance Ion 204.00 (203.70 to 204.70): E
 Ion 206.00 (205.70 to 206.70): E
 Ion 141.00 (140.70 to 141.70): E

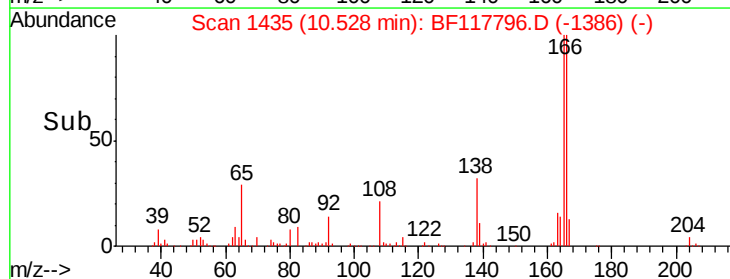
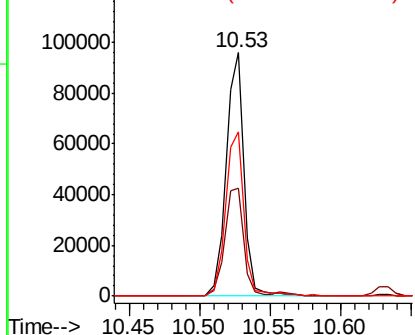


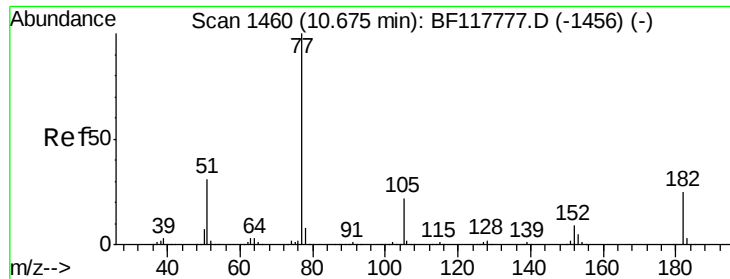
#62
 4-Nitroaniline
 Concen: 7.189 ng
 RT: 10.53 min Scan# 1435
 Delta R.T. -0.01 min
 Lab File: BF117796.D
 Acq: 15 Nov 2019 10:08

Tgt Ion:138 Resp: 83928
 Ion Ratio Lower Upper
 138 100
 92 44.1 28.3 68.3
 108 67.3 54.3 94.3



Abundance Ion 138.00 (137.70 to 138.70): E
 Ion 92.00 (91.70 to 92.70): BF1
 Ion 108.00 (107.70 to 108.70): E





#63

Azobenzene

Concen: 8.623 ng

RT: 10.67 min Scan# 1460

Delta R.T. 0.00 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

Instrument :

BNA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019

Tot Ion: 77 Resp: 341024

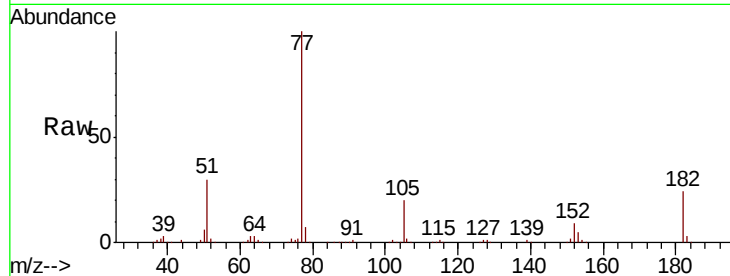
Ion Ratio Lower Upper

77 100

182 24.2 4.8 44.8

105 20.4 2.1 42.1

51 30.0 11.4 51.4

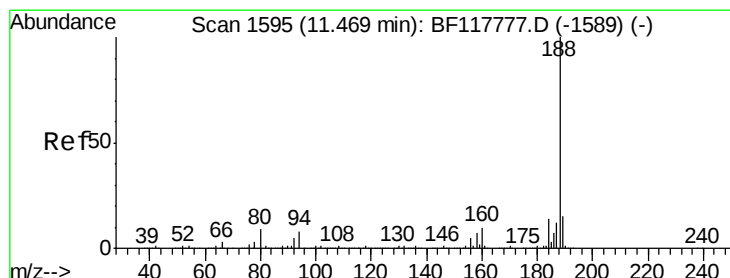
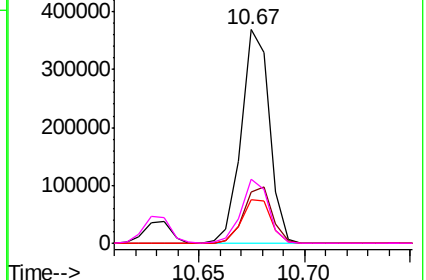
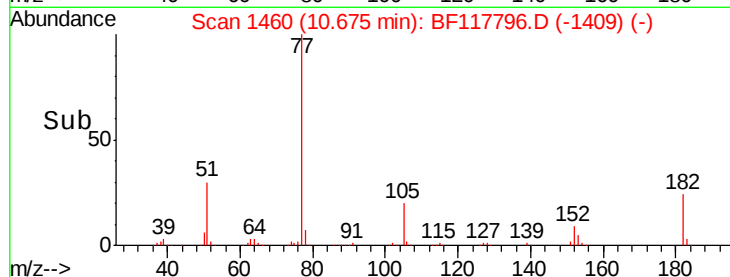


Abundance Ion 77.00 (76.70 to 77.70): BF1

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



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.47 min Scan# 1595

Delta R.T. 0.00 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

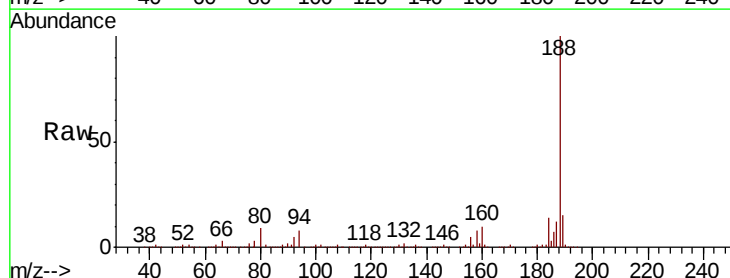
Tgt Ion: 188 Resp: 1231576

Ion Ratio Lower Upper

188 100

94 8.5 6.6 10.0

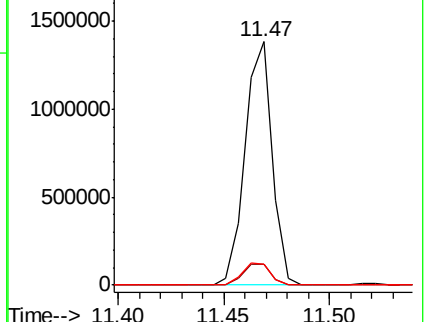
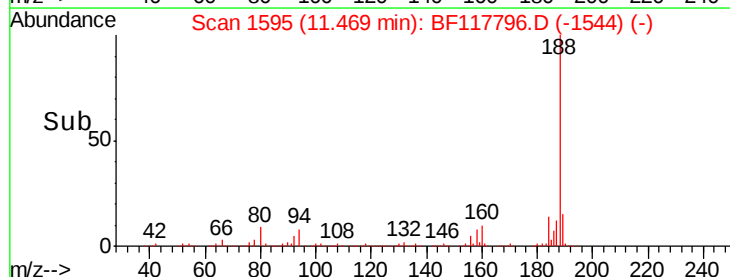
80 8.6 7.2 10.8



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





#65

4,6-Dinitro-2-methylphenol

Concen: 6.680 ng

RT: 10.56 min Scan# 1440

Delta R.T. -0.01 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

Instrument :

BNA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019

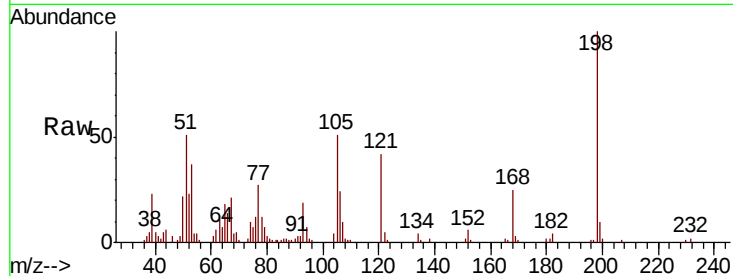
Tot Ion:198 Resp: 38407

Ion Ratio Lower Upper

198 100

51 51.2 16.0 56.0

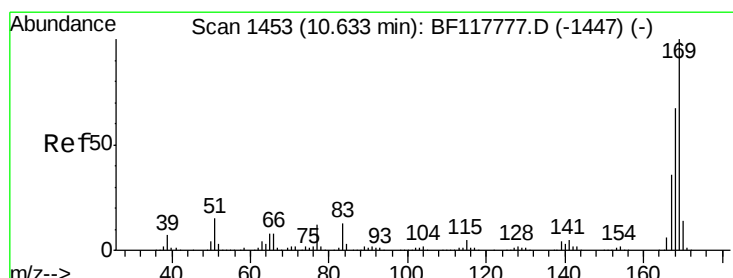
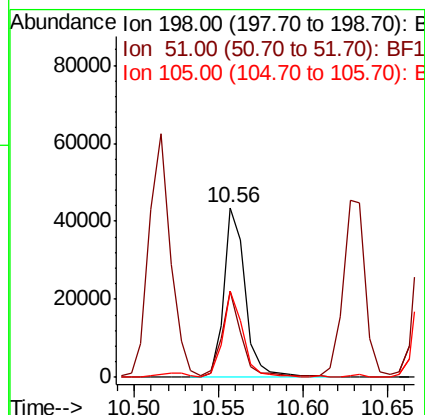
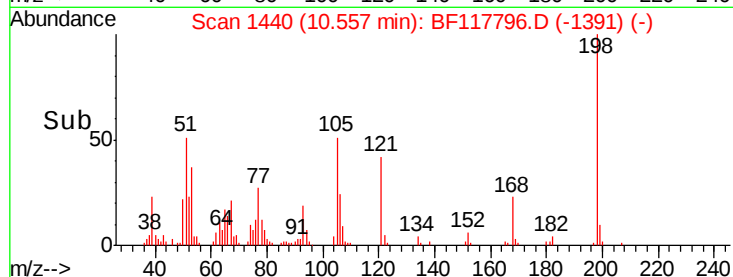
105 50.8 19.1 59.1



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E



#66

n-Nitrosodiphenylamine

Concen: 8.381 ng

RT: 10.63 min Scan# 1453

Delta R.T. 0.00 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

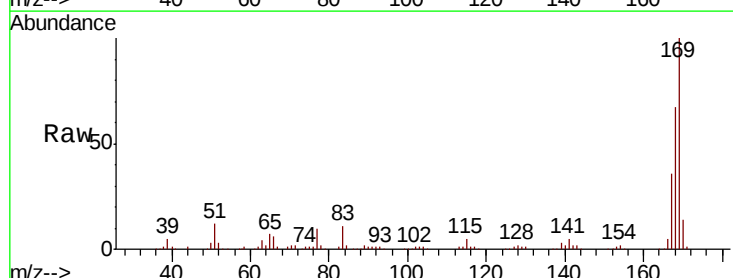
Tgt Ion:169 Resp: 300399

Ion Ratio Lower Upper

169 100

168 67.3 53.5 80.3

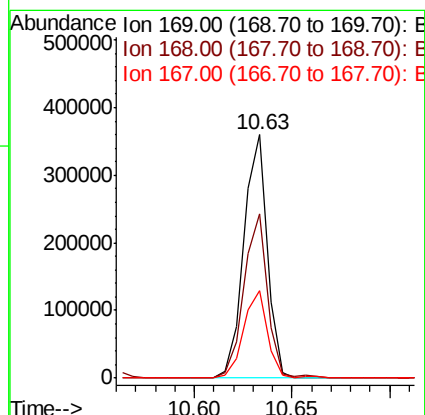
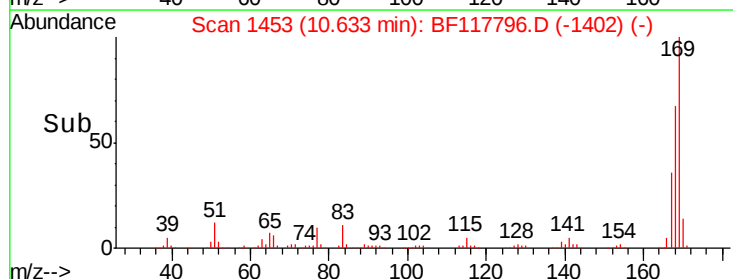
167 36.2 29.0 43.4

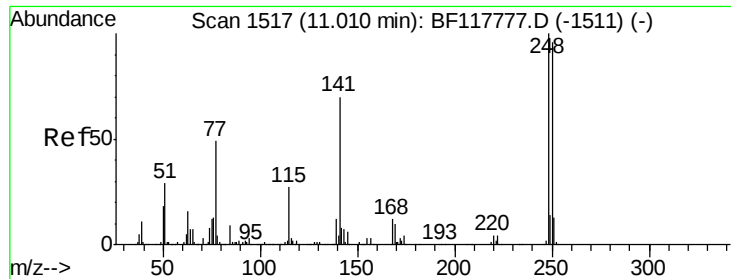


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E

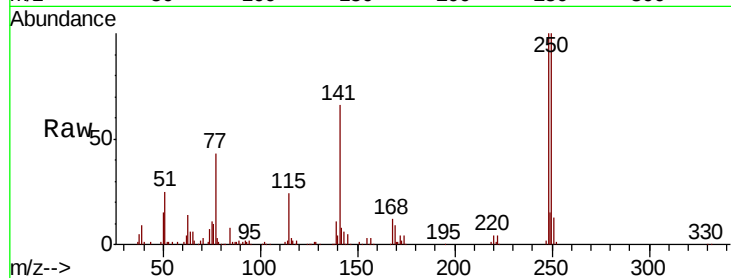




#67
4-Bromophenyl-phenylether
Concen: 8.038 ng
RT: 11.01 min Scan# 1517
Delta R.T. 0.00 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
248	100		
250	99.6	76.6	115.0
141	66.3	55.9	83.9

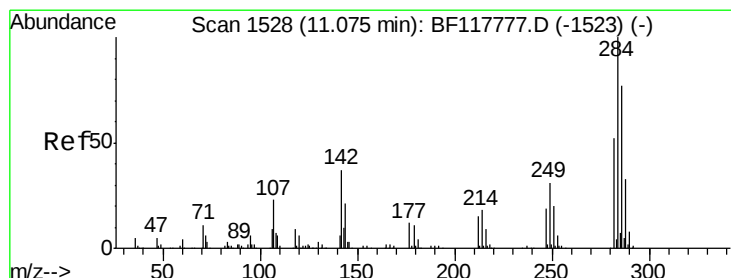
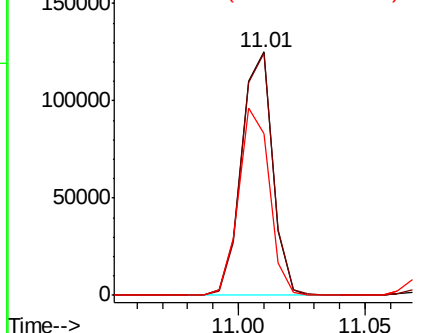
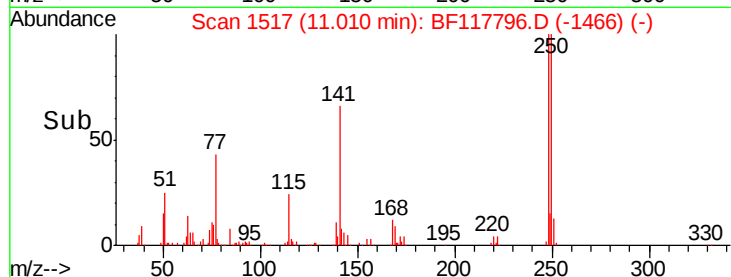


Abundance

Ion 248.00 (247.70 to 248.70): E

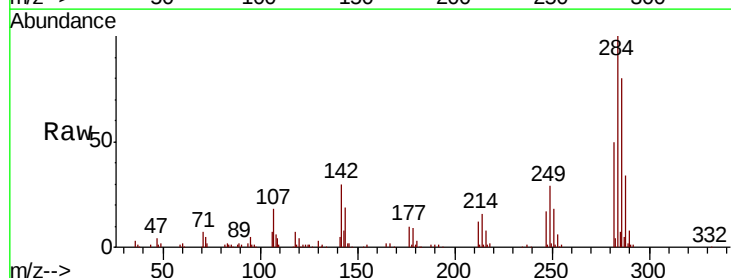
Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#68
Hexachlorobenzene
Concen: 8.008 ng
RT: 11.07 min Scan# 1528
Delta R.T. 0.00 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

Tgt Ion	Ratio	Lower	Upper
284	100		
142	30.2	29.4	44.2
249	28.7	24.6	37.0

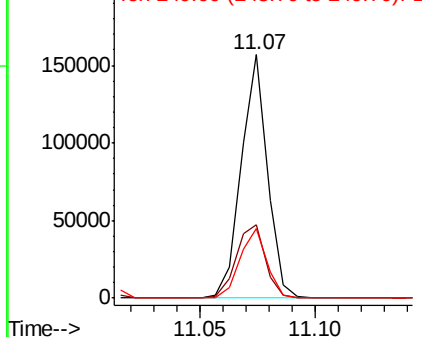
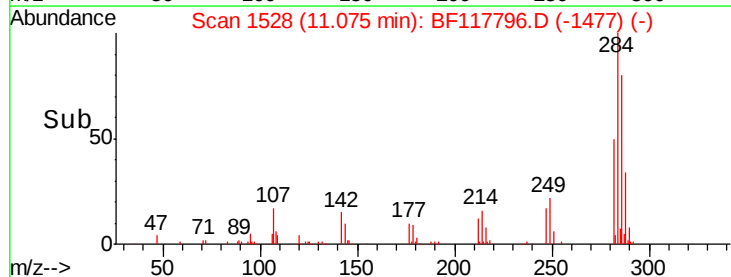


Abundance

Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

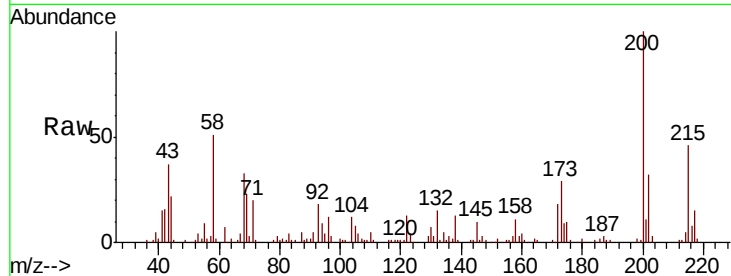




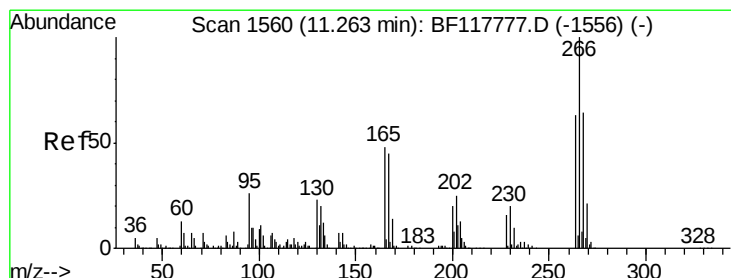
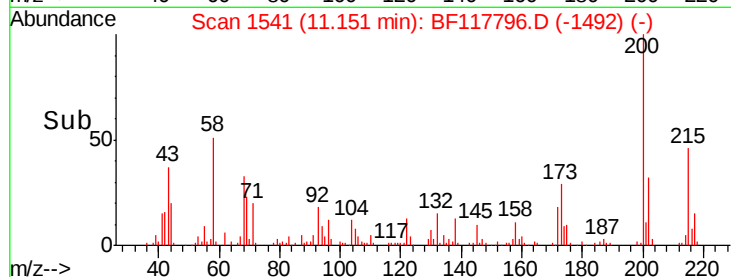
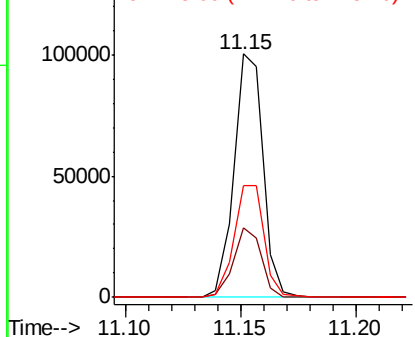
#69
Atrazine
Concen: 7.476 ng
RT: 11.15 min Scan# 1541
Delta R.T. -0.01 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019

Tot Ion:200 Resp: 88144
Ion Ratio Lower Upper
200 100
173 28.5 6.7 46.7
215 46.0 27.5 67.5

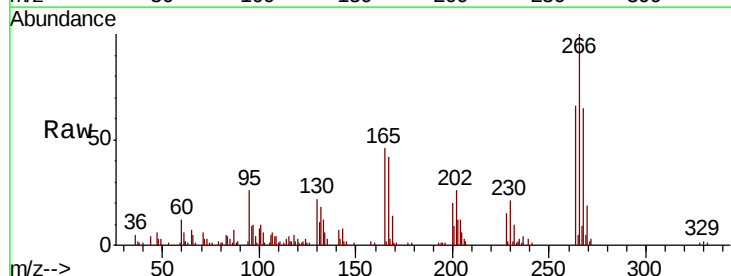


Abundance Ion 200.00 (199.70 to 200.70): E
Ion 173.00 (172.70 to 173.70): E
Ion 215.00 (214.70 to 215.70): E

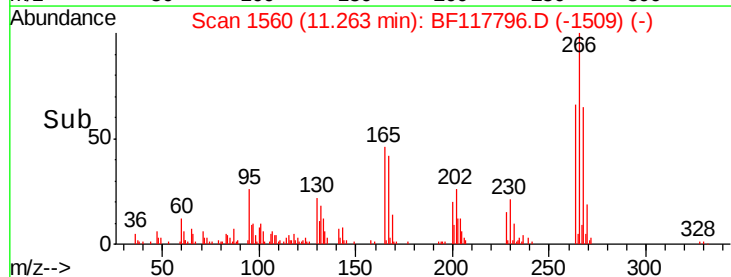
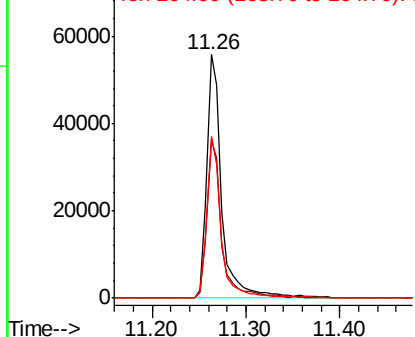


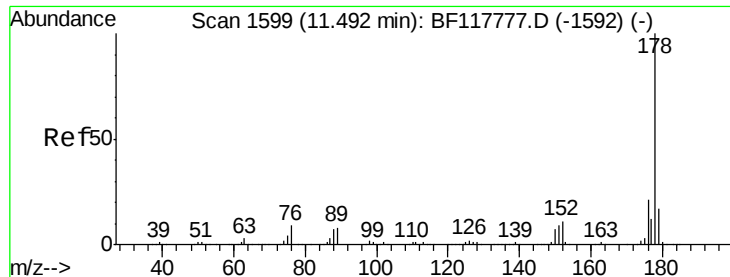
#70
Pentachlorophenol
Concen: 6.902 ng
RT: 11.26 min Scan# 1560
Delta R.T. 0.00 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

Tgt Ion:266 Resp: 62480
Ion Ratio Lower Upper
266 100
268 65.0 50.8 76.2
264 66.5 50.7 76.1



Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E

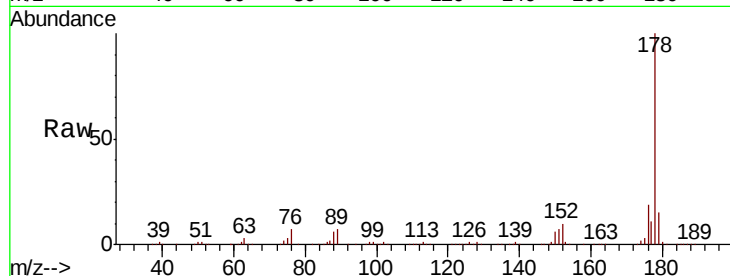




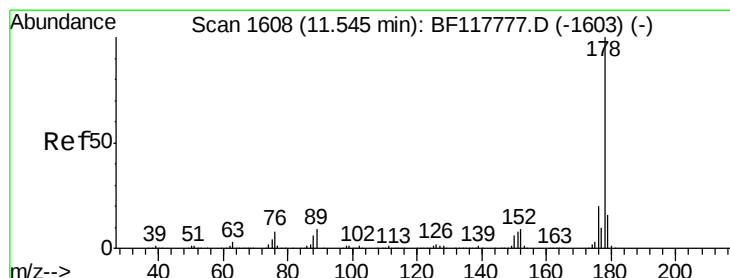
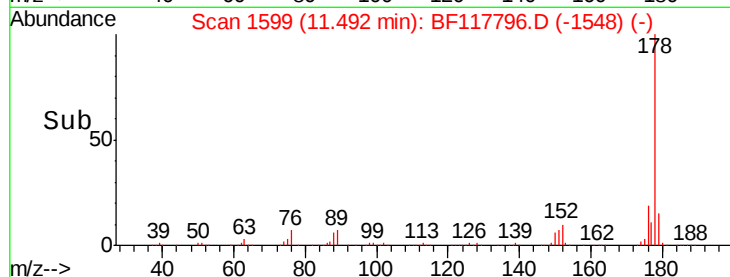
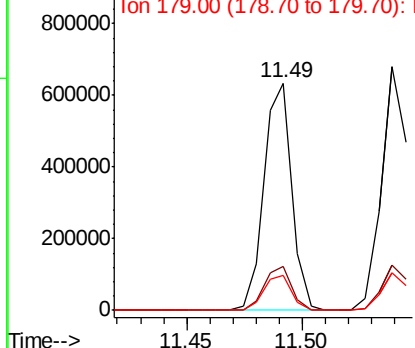
#71
Phenanthrene
Concen: 8.600 ng
RT: 11.49 min Scan# 1599
Delta R.T. 0.00 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019

Tot Ion:178 Resp: 532528
Ion Ratio Lower Upper
178 100
176 19.3 16.6 25.0
179 15.5 13.2 19.8

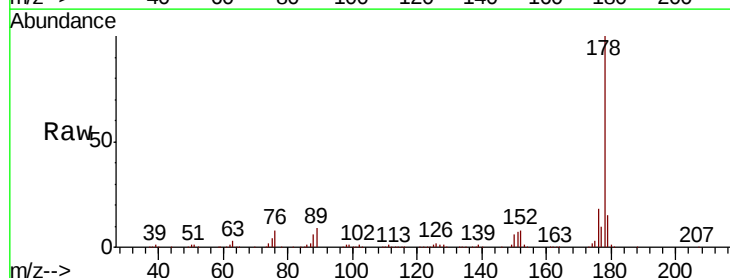


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

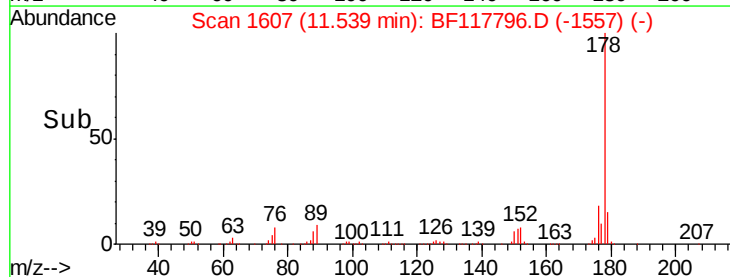
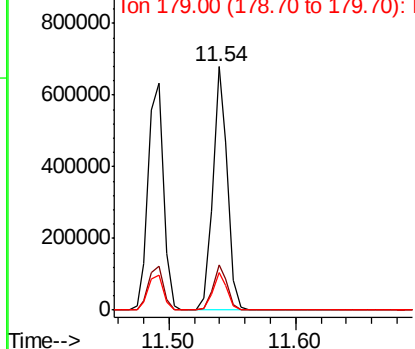


#72
Anthracene
Concen: 8.968 ng
RT: 11.54 min Scan# 1607
Delta R.T. -0.01 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

Tgt Ion:178 Resp: 550561
Ion Ratio Lower Upper
178 100
176 18.4 16.1 24.1
179 15.4 13.0 19.4



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

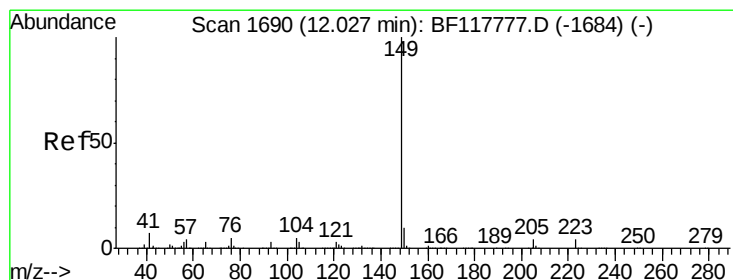
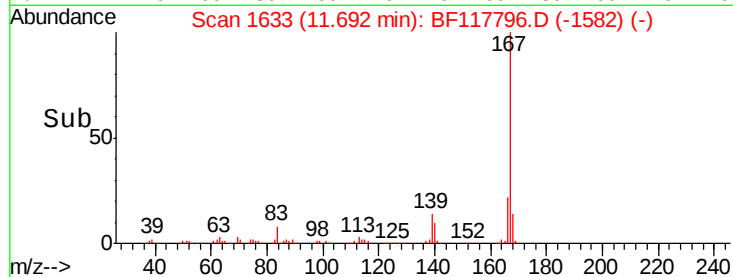
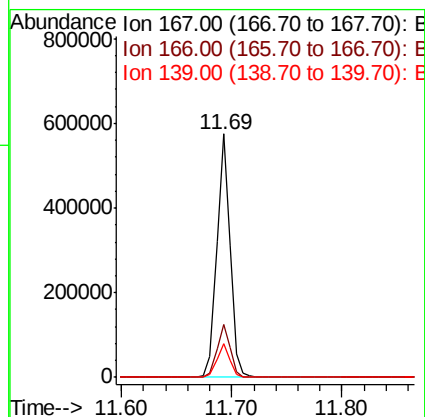
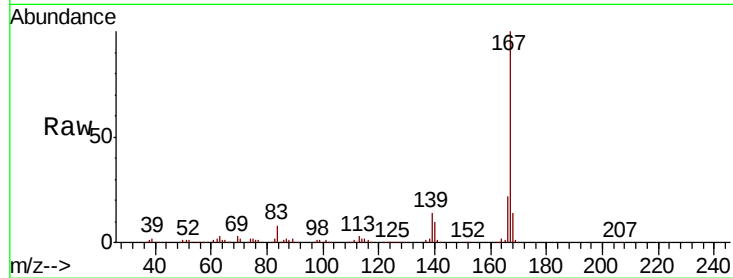




#73
 Carbazole
 Concen: 8.819 ng
 RT: 11.69 min Scan# 1633
 Delta R.T. 0.00 min
 Lab File: BF117796.D
 Acq: 15 Nov 2019 10:08

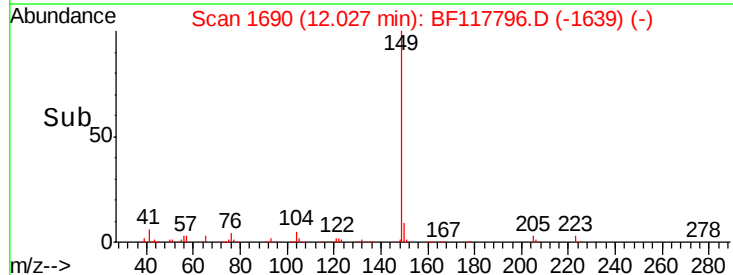
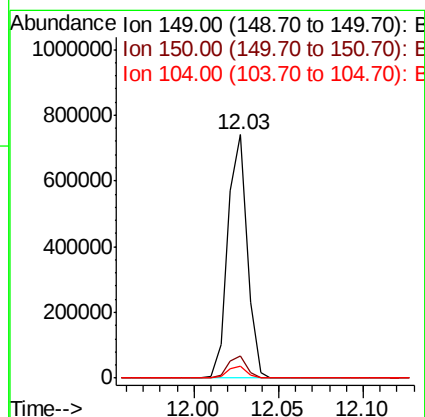
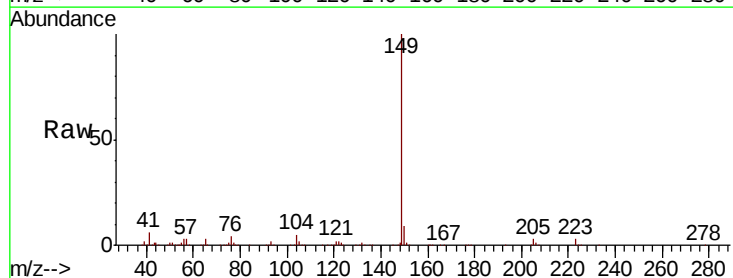
Instrument :
 BNA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019

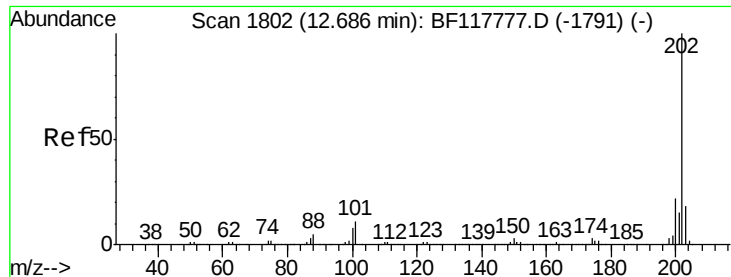
Tot Ion:167 Resp: 473126
 Ion Ratio Lower Upper
 167 100
 166 21.7 18.0 27.0
 139 13.6 11.7 17.5



#74
 Di-n-butylphthalate
 Concen: 8.808 ng
 RT: 12.03 min Scan# 1690
 Delta R.T. 0.00 min
 Lab File: BF117796.D
 Acq: 15 Nov 2019 10:08

Tgt Ion:149 Resp: 588348
 Ion Ratio Lower Upper
 149 100
 150 9.1 7.9 11.9
 104 4.7 4.2 6.4





#75

Fluoranthene

Concen: 2.652 ng

RT: 12.68 min Scan# 1801

Delta R.T. -0.01 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

Instrument :

BNA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019

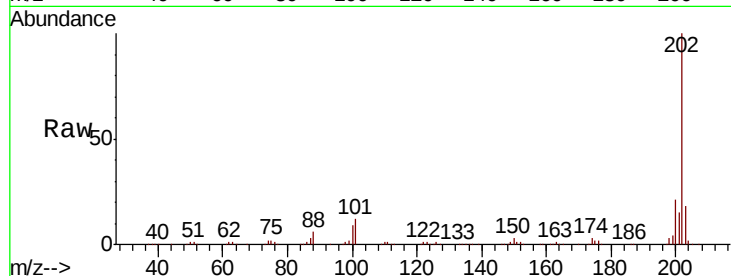
Tot Ion:202 Resp: 548827

Ion Ratio Lower Upper

202 100

101 12.1 0.0 31.1

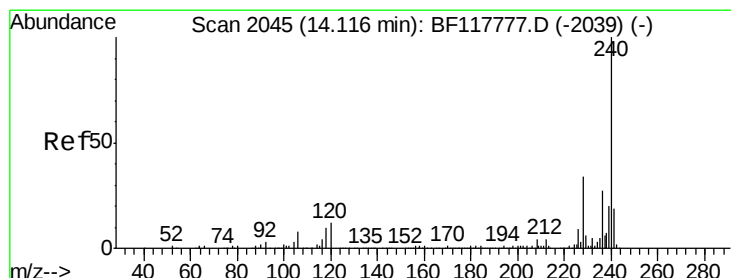
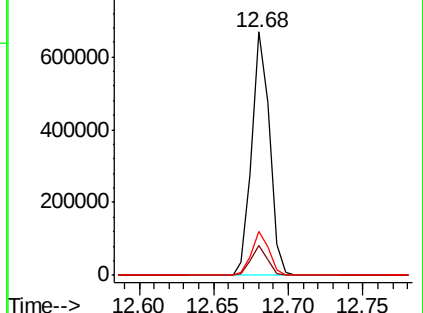
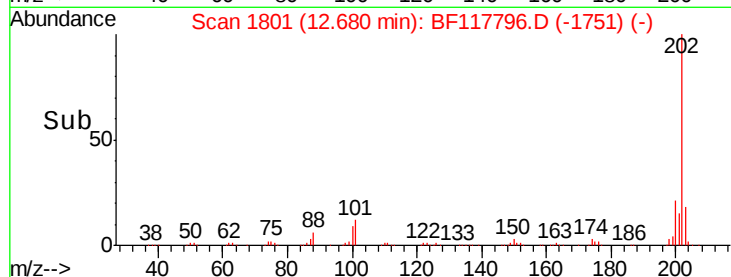
203 17.8 0.0 38.2



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.12 min Scan# 2045

Delta R.T. 0.00 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

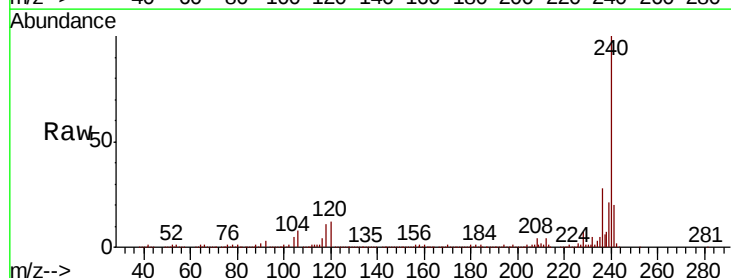
Tgt Ion:240 Resp: 934480

Ion Ratio Lower Upper

240 100

120 11.7 9.5 14.3

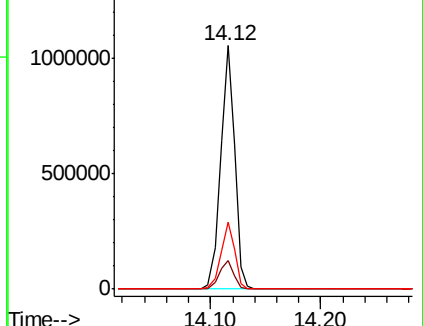
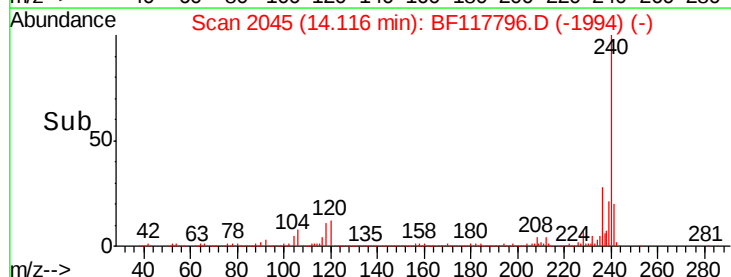
236 27.6 21.3 31.9

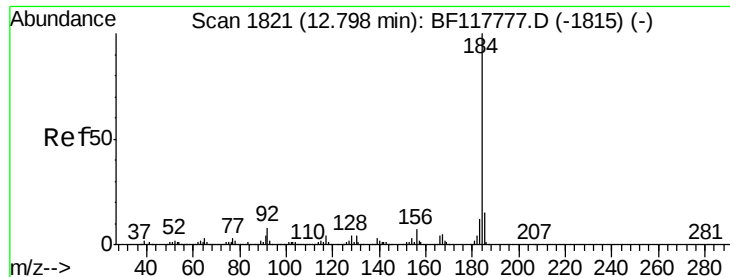


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: 8.817 ng

RT: 12.80 min Scan# 1821

Delta R.T. 0.00 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

Instrument :

BNA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019

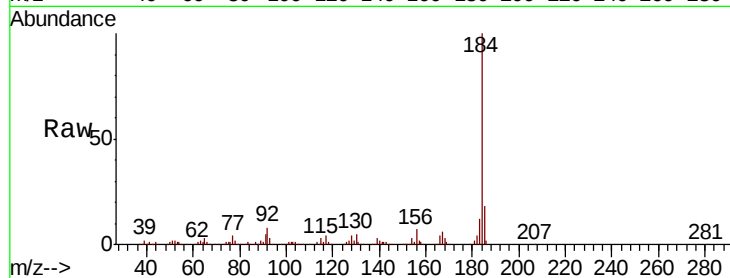
Tot Ion:184 Resp: 269885

Ion Ratio Lower Upper

184 100

185 17.6 12.2 18.4

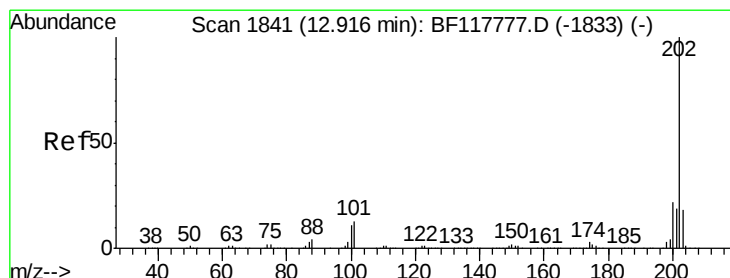
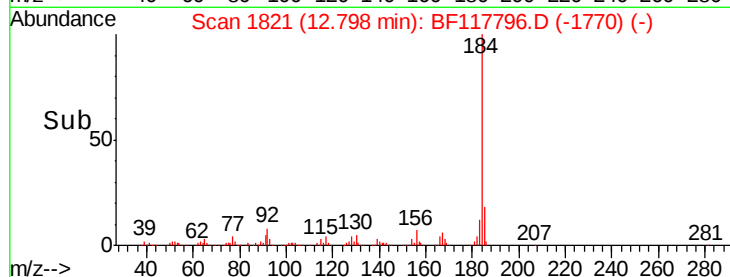
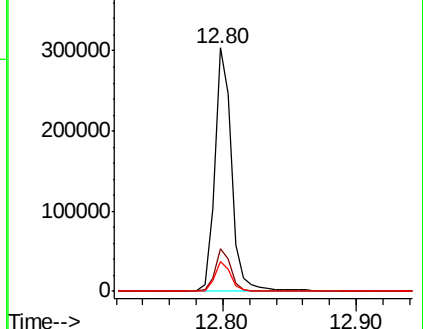
183 12.4 9.5 14.3



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Pyrene

Concen: 7.428 ng

RT: 12.91 min Scan# 1840

Delta R.T. -0.01 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

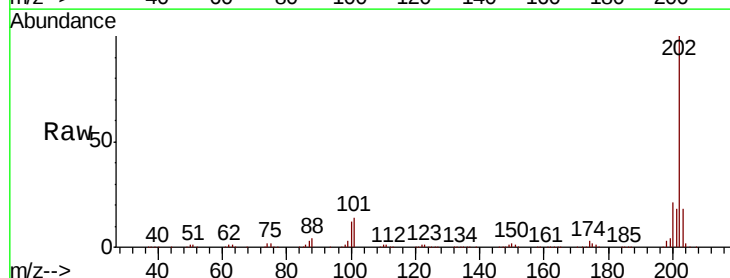
Tgt Ion:202 Resp: 560943

Ion Ratio Lower Upper

202 100

200 21.2 17.8 26.8

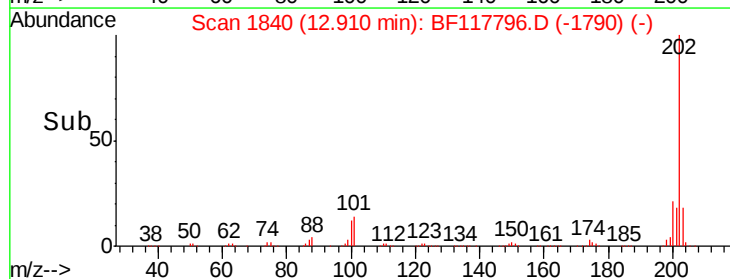
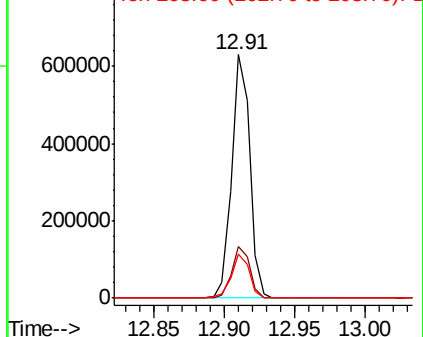
203 17.8 14.6 22.0

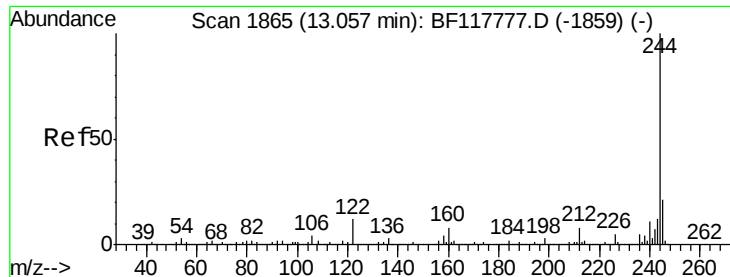


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

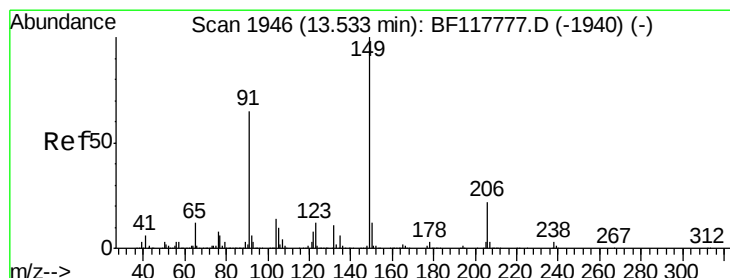
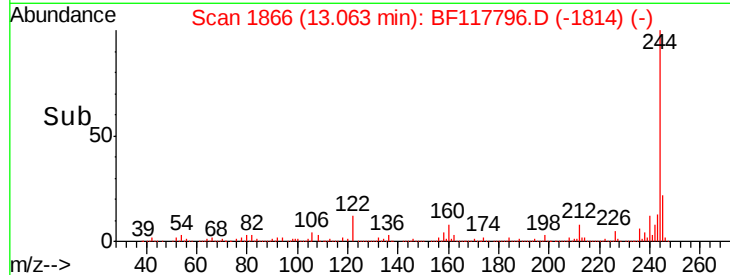
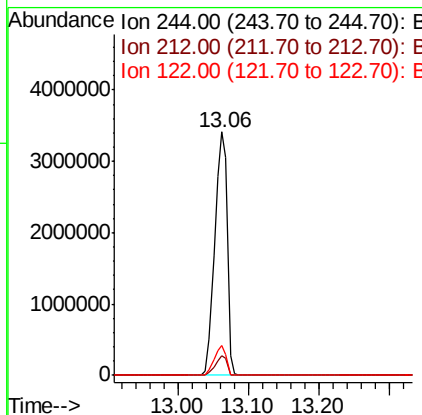
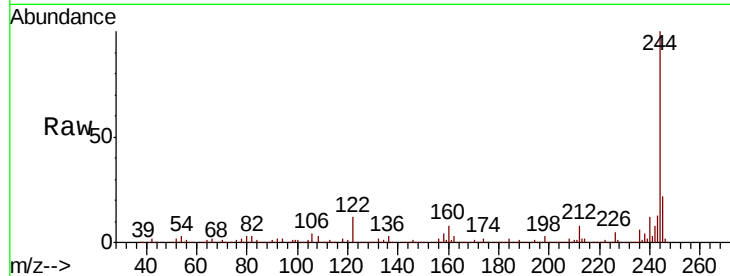




#79
 Terphenyl-d14
 Concen: 81.906 ng
 RT: 13.06 min Scan# 1866
 Delta R.T. 0.01 min
 Lab File: BF117796.D
 Acq: 15 Nov 2019 10:08

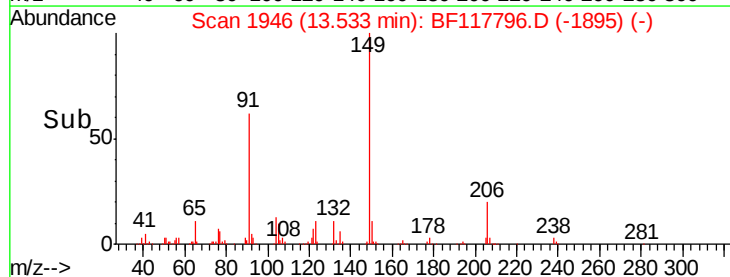
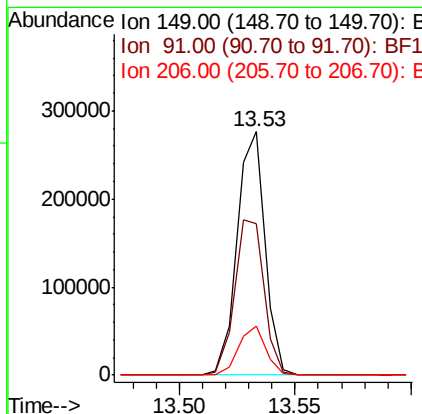
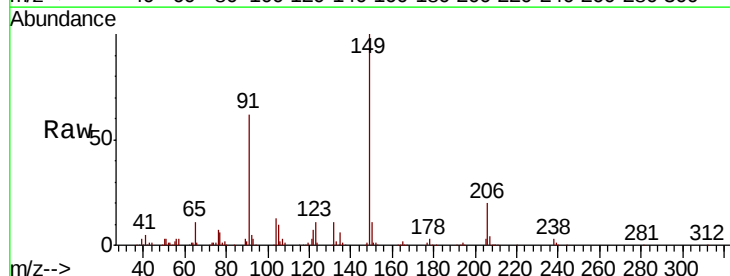
Instrument :
 BNA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019

Tot Ion:244 Resp: 4187942
 Ion Ratio Lower Upper
 244 100
 212 8.2 6.3 9.5
 122 12.3 9.4 14.2



#80
 Butylbenzylphthalate
 Concen: 7.188 ng
 RT: 13.53 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: BF117796.D
 Acq: 15 Nov 2019 10:08

Tgt Ion:149 Resp: 233146
 Ion Ratio Lower Upper
 149 100
 91 62.3 51.9 77.9
 206 20.1 17.2 25.8

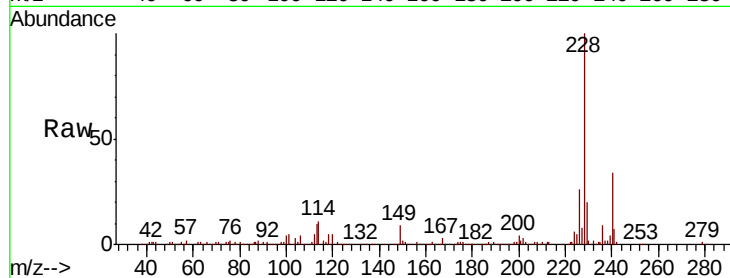




#81
Benzo(a)anthracene
Concen: 8.017 ng
RT: 14.10 min Scan# 2043
Delta R.T. 0.00 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
228	100		
226	26.4	22.2	33.2
229	19.7	15.9	23.9

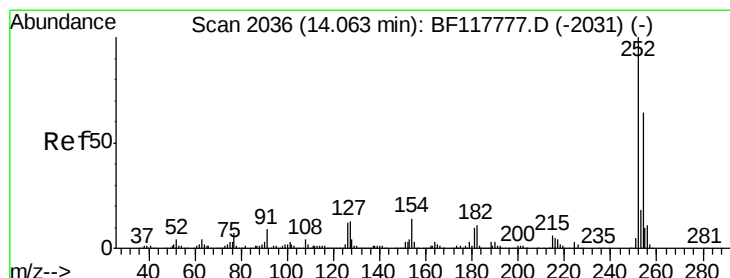
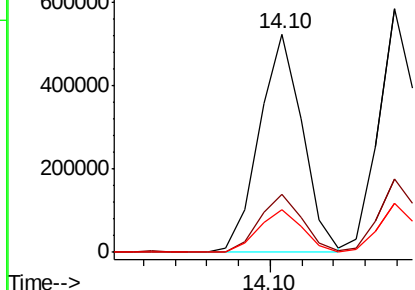
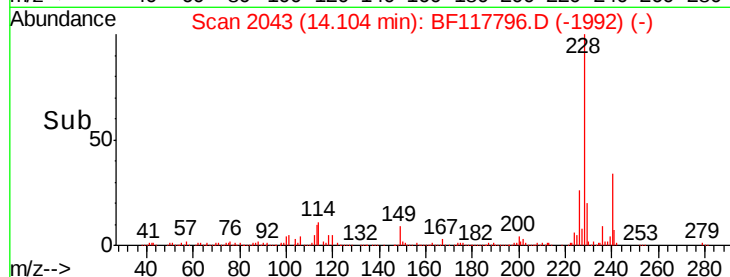


Abundance

Ion 228.00 (227.70 to 228.70): E

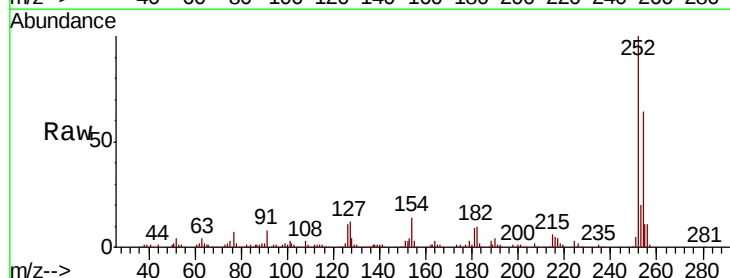
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82
3,3'-Dichlorobenzidine
Concen: 8.737 ng
RT: 14.06 min Scan# 2036
Delta R.T. 0.00 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

Tgt Ion	Ratio	Lower	Upper
252	100		
254	64.3	51.0	76.6
126	11.3	9.7	14.5

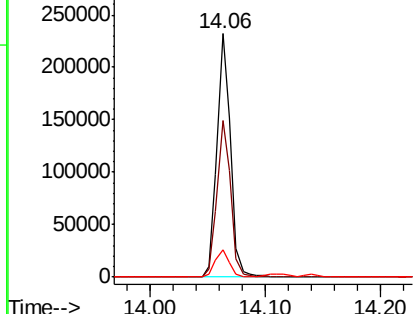
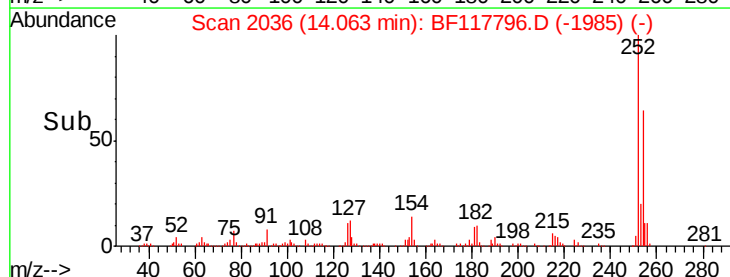


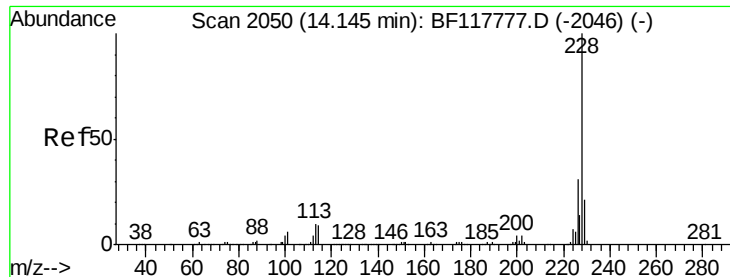
Abundance

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

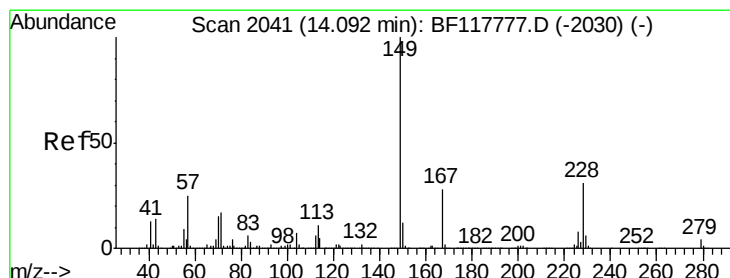
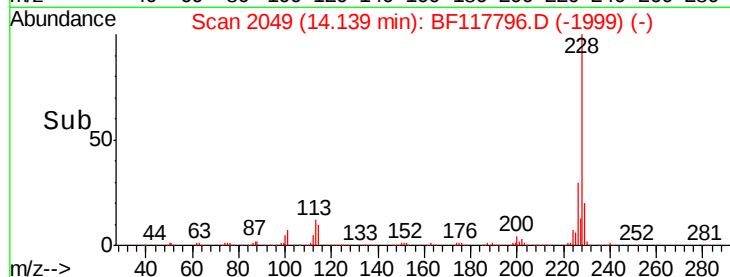
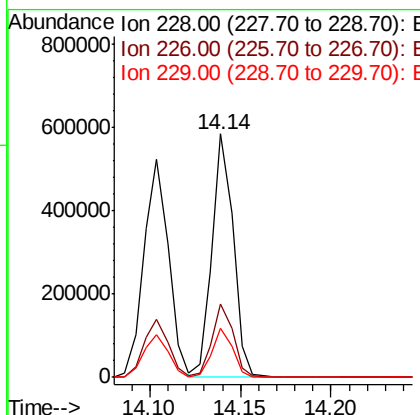
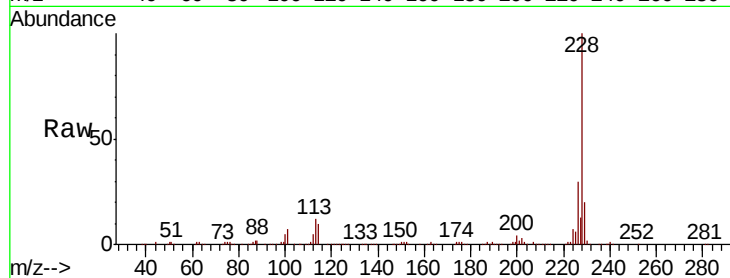




#83
Chrysene
Concen: 7.987 ng
RT: 14.14 min Scan# 2049
Delta R.T. -0.01 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

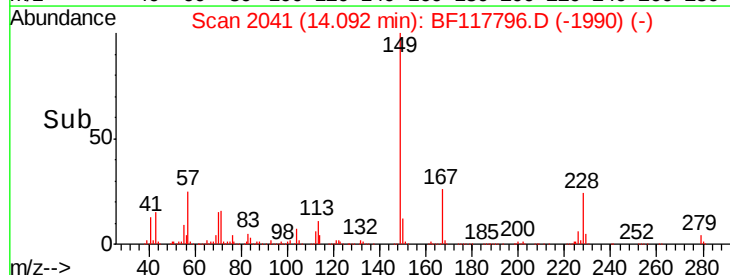
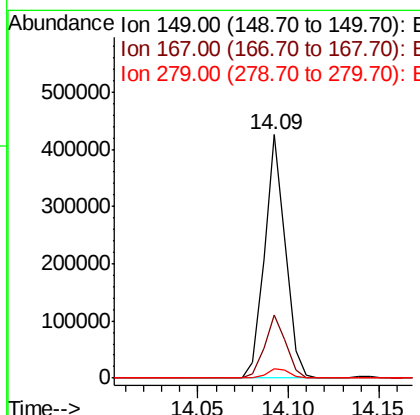
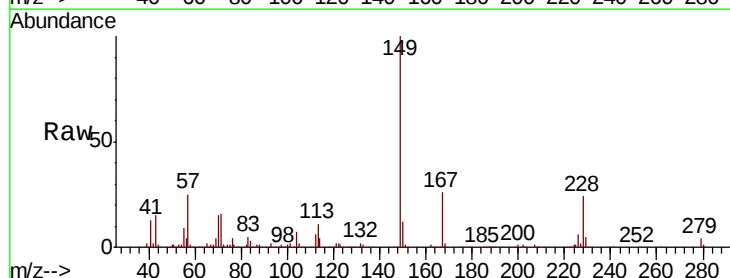
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019

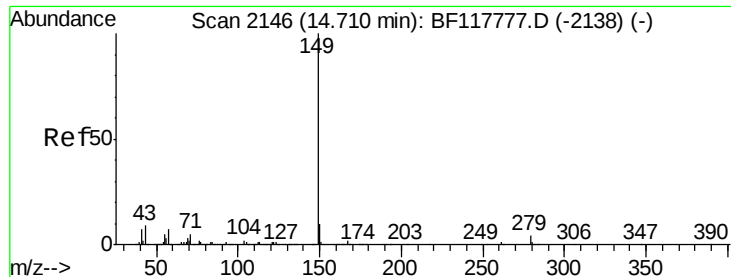
Tot Ion	Ratio	Lower	Upper
228	100		
226	30.2	25.0	37.4
229	20.1	16.6	25.0



#84
Bis(2-ethylhexyl)phthalate
Concen: 8.691 ng
RT: 14.09 min Scan# 2041
Delta R.T. 0.00 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.0	22.2	33.2
279	3.8	3.4	5.2





#85

Di-n-octyl phthalate

Concen: 9.435 ng

RT: 14.71 min Scan# 2146

Delta R.T. 0.00 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

Instrument :

BNA_F

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019

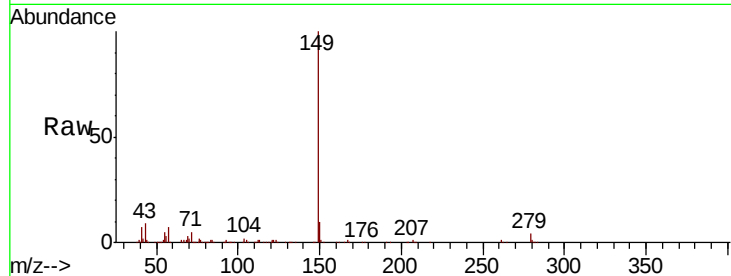
Tot Ion:149 Resp: 545080

Ion Ratio Lower Upper

149 100

167 1.5 1.2 1.8

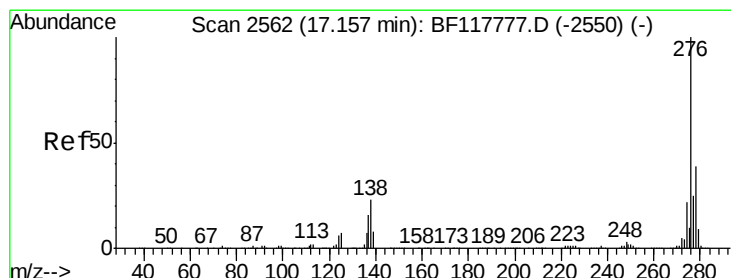
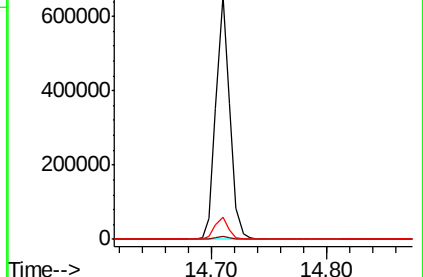
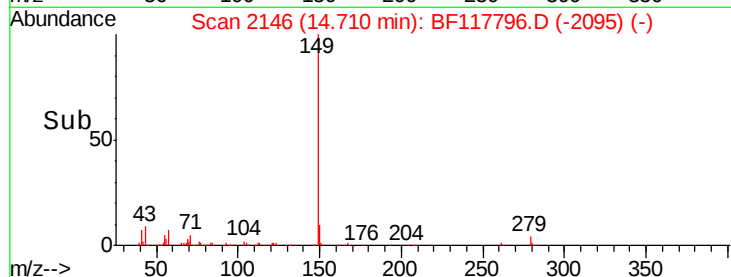
43 9.3 7.4 11.2



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



#86

Indeno(1,2,3-cd)pyrene

Concen: 7.943 ng

RT: 17.15 min Scan# 2561

Delta R.T. -0.01 min

Lab File: BF117796.D

Acq: 15 Nov 2019 10:08

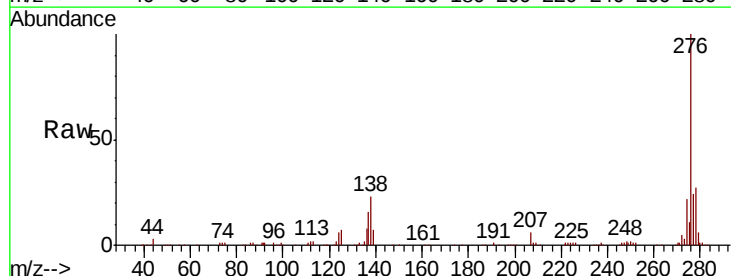
Tgt Ion:276 Resp: 404520

Ion Ratio Lower Upper

276 100

138 25.9 20.9 31.3

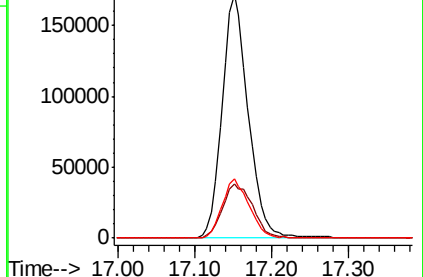
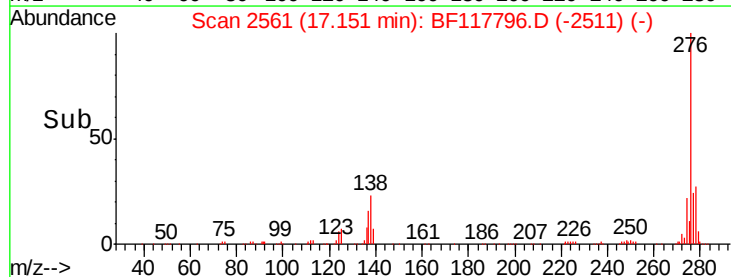
277 25.3 20.3 30.5

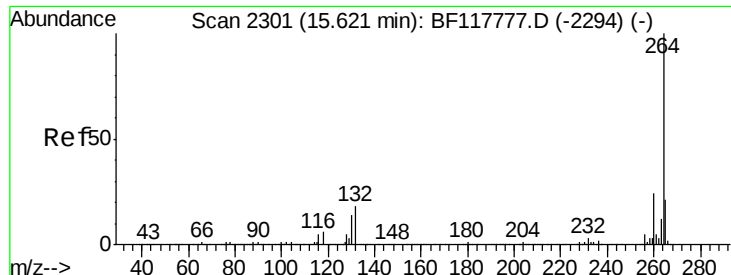


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

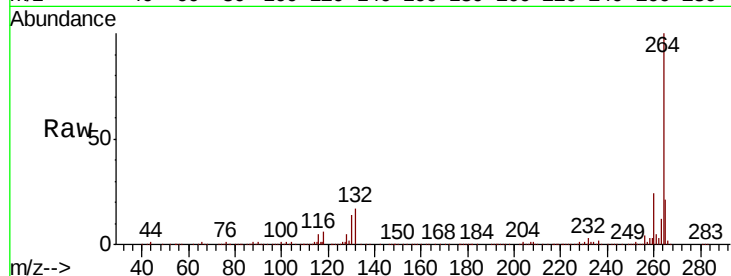




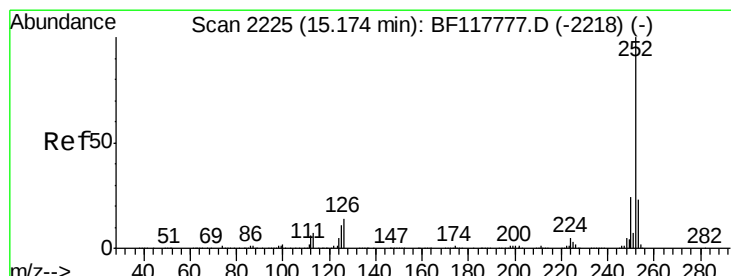
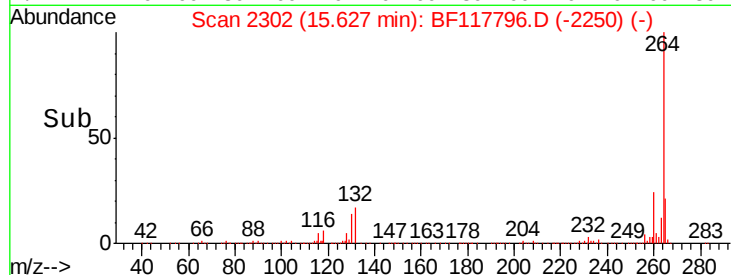
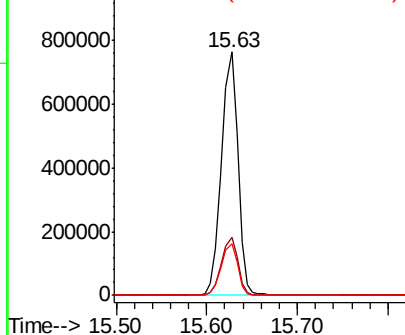
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.63 min Scan# 2302
Delta R.T. 0.01 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019

Tot Ion:264 Resp: 963436
Ion Ratio Lower Upper
264 100
260 23.7 19.4 29.0
265 21.3 17.1 25.7

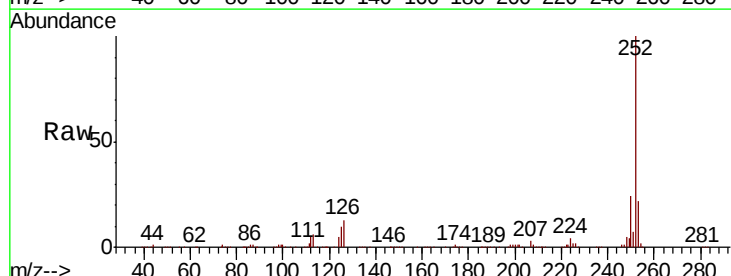


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

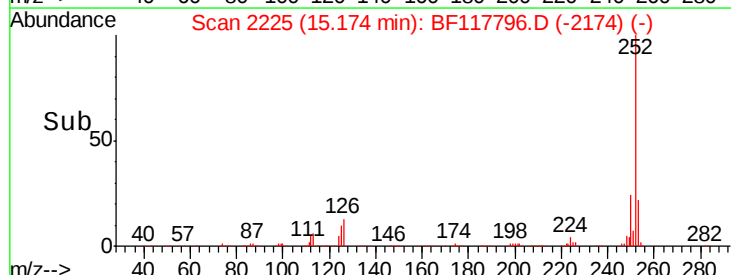
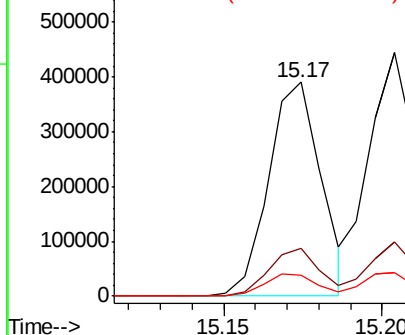


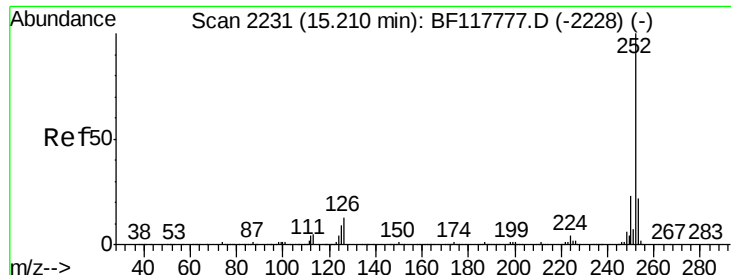
#88
Benzo(b)fluoranthene
Concen: 7.164 ng
RT: 15.17 min Scan# 2225
Delta R.T. 0.00 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

Tgt Ion:252 Resp: 448457
Ion Ratio Lower Upper
252 100
253 22.3 18.0 27.0
125 9.9 8.6 13.0



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

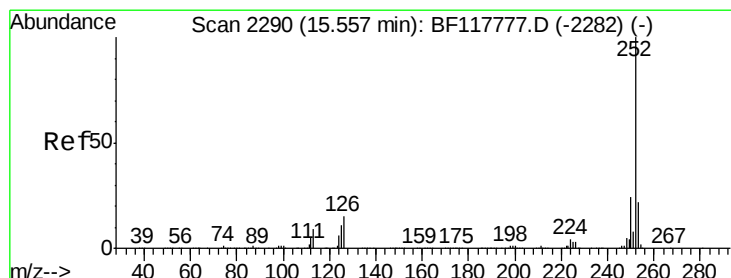
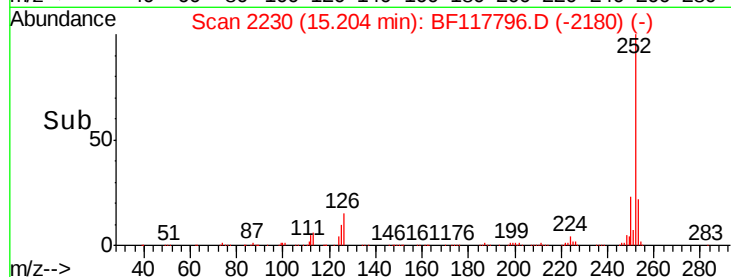
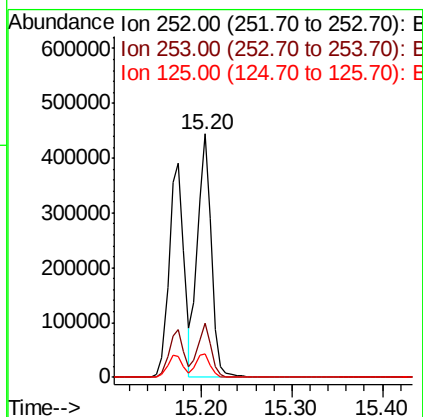
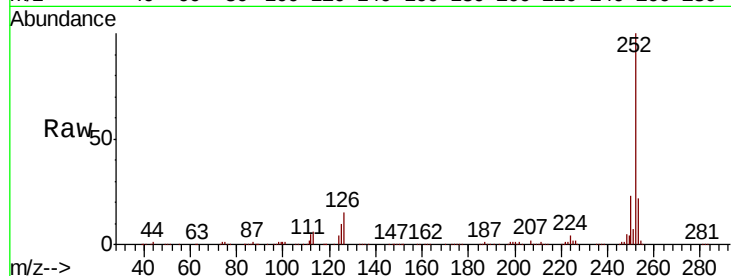




#89
Benzo(k)fluoranthene
Concen: 7.988 ng
RT: 15.20 min Scan# 2230
Delta R.T. -0.01 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

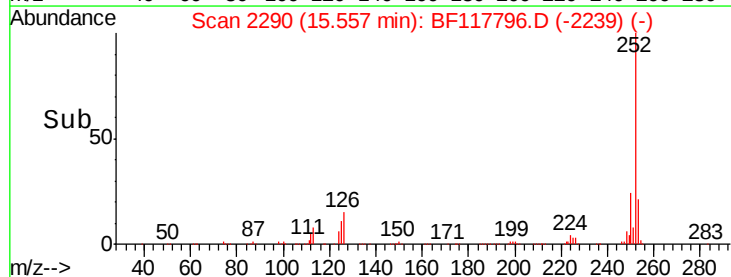
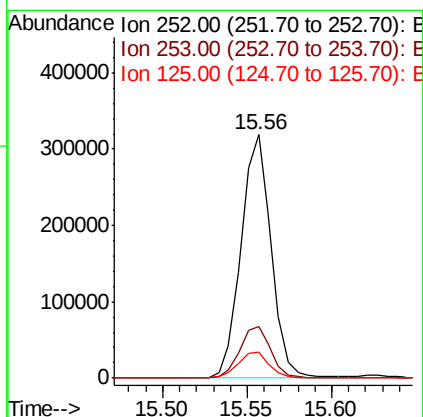
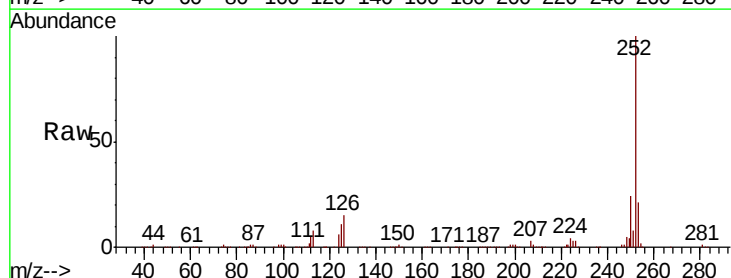
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019

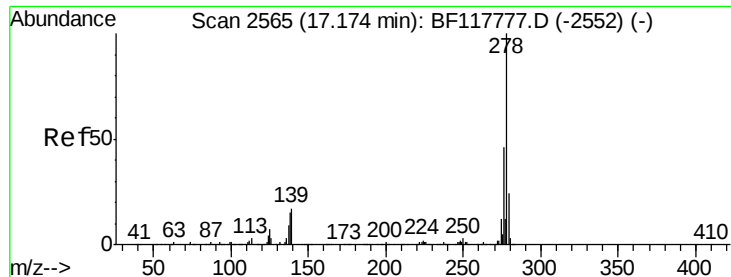
Tot Ion:252 Resp: 471143
Ion Ratio Lower Upper
252 100
253 22.3 17.5 26.3
125 9.7 7.9 11.9



#90
Benzo(a)pyrene
Concen: 7.202 ng
RT: 15.56 min Scan# 2290
Delta R.T. 0.00 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

Tgt Ion:252 Resp: 396426
Ion Ratio Lower Upper
252 100
253 21.5 17.8 26.6
125 10.9 9.2 13.8



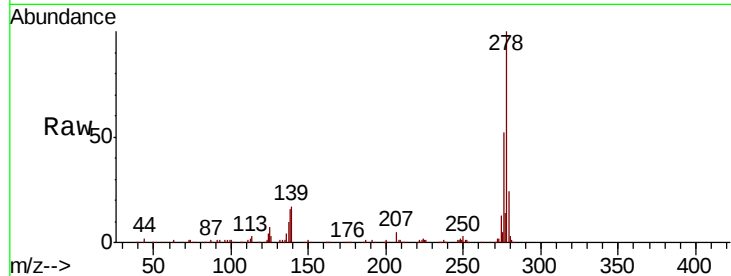


#91
Dibenzo(a,h)anthracene
Concen: 7.283 ng
RT: 17.17 min Scan# 2564
Delta R.T. -0.01 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

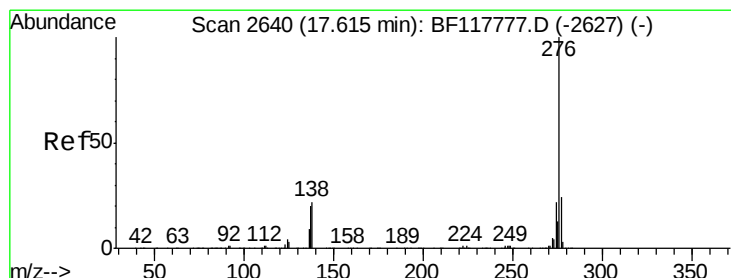
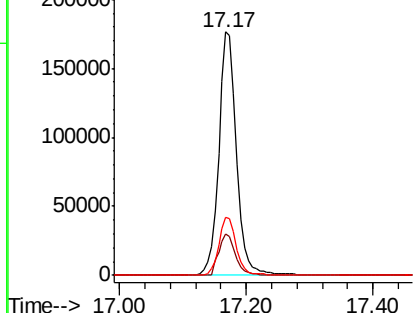
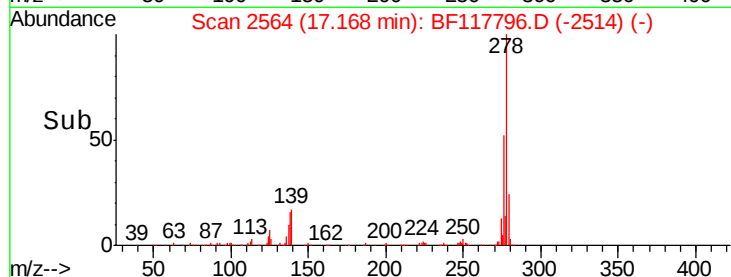
Instrument :
BNA_F
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019

Tot Ion:278 Resp: 345054

Ion	Ratio	Lower	Upper
278	100		
139	16.8	13.8	20.8
279	23.7	19.6	29.4



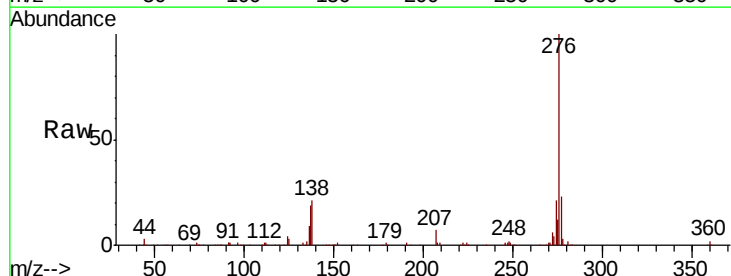
Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#92
Benzo(g,h,i)perylene
Concen: 6.918 ng
RT: 17.61 min Scan# 2639
Delta R.T. -0.01 min
Lab File: BF117796.D
Acq: 15 Nov 2019 10:08

Tgt Ion:276 Resp: 326453

Ion	Ratio	Lower	Upper
276	100		
277	23.3	18.9	28.3
138	21.4	17.4	26.2



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

