

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
 Data File : BF117635.D
 Acq On : 30 Oct 2019 19:59
 Operator : JU
 Sample : K5542-15 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 31 01:26:16 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 18:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	39078	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	151927	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	69698	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	108233	20.00	ng	0.00
76) Chrysene-d12	13.90	240	75093	20.00	ng	0.00
87) Perylene-d12	15.34	264	57857	20.00	ng	0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.36	112	88618	33.74	ng	0.01
7) Phenol-d6	6.39	99	124870	35.39	ng	0.01
23) Nitrobenzene-d5	7.30	82	62968	20.46	ng	0.00
42) 2,4,6-Tribromophenol	10.56	330	18009	29.86	ng	0.00
45) 2-Fluorobiphenyl	9.08	172	111078	22.46	ng	-0.01
79) Terphenyl-d14	12.83	244	96950	21.06	ng	0.00

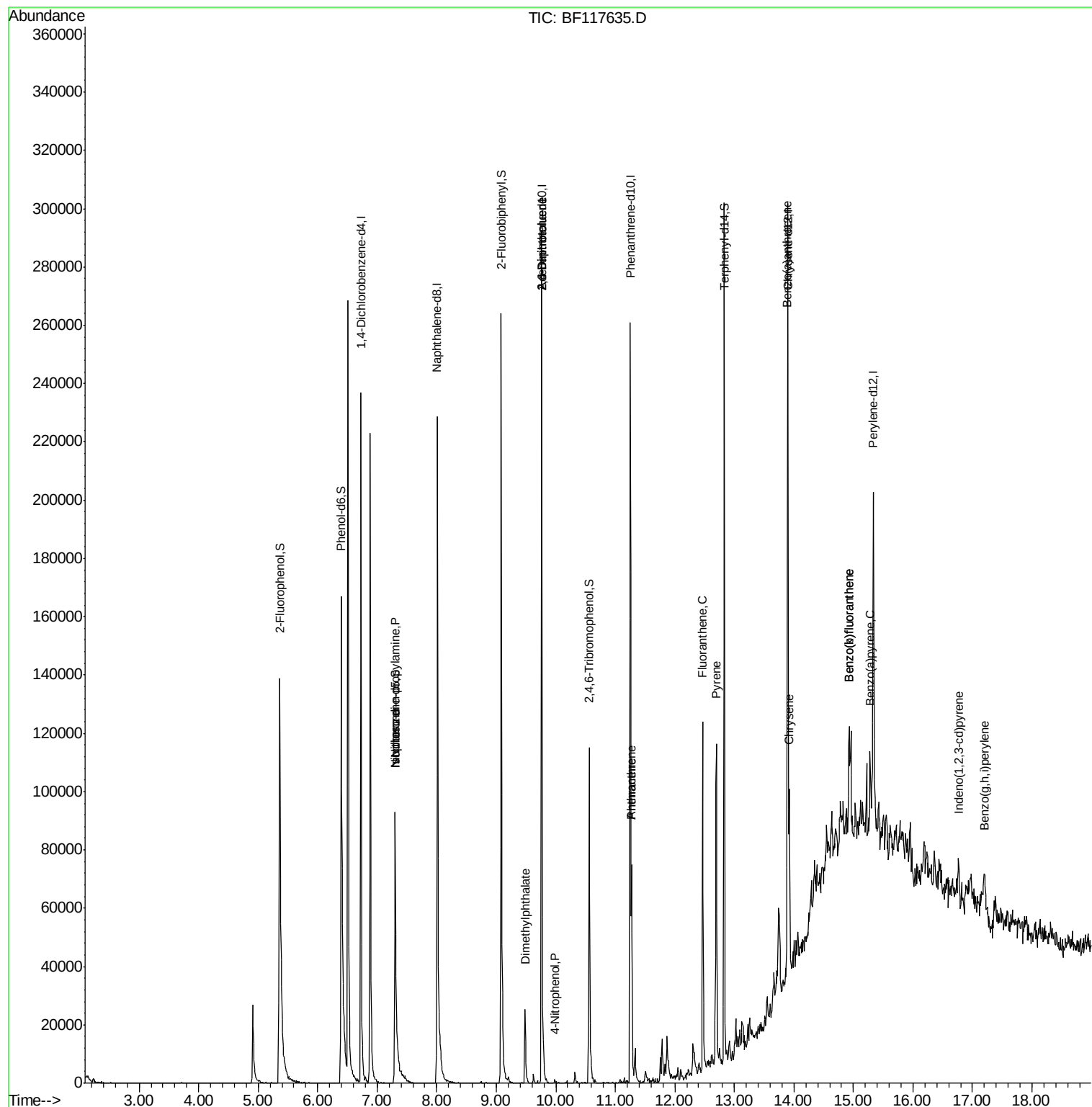
Target Compounds				Qvalue		
9) Benzaldehyde	6.50	77	2064	Below Cal	#	82
19) n-Nitroso-di-n-propylamine	7.30	70	8259	3.833	ng	# 82
25) Isophorone	7.30	82	62968	11.828	ng	# 65
50) Dimethylphthalate	9.49	163	16810	3.383	ng	# 97
51) 2,6-Dinitrotoluene	9.76	165	8875	8.560	ng	# 22
56) 4-Nitrophenol	9.98	139	161	4.394	ng	# 6
57) 2,4-Dinitrotoluene	9.76	165	8875	6.438	ng	# 12
71) Phenanthrene	11.27	178	28128	4.476	ng	# 99
72) Anthracene	11.27	178	28128	4.362	ng	# 98
75) Fluoranthene	12.47	202	55573	8.833	ng	# 97
77) Benzidine	12.83	184	1159	Below Cal	#	67
78) Pyrene	12.70	202	50459	7.823	ng	# 99
81) Benzo(a)anthracene	13.89	228	23767	4.692	ng	# 99
83) Chrysene	13.92	228	22488	4.530	ng	# 97
86) Indeno(1,2,3-cd)pyrene	16.77	276	9525	2.570	ng	# 81
88) Benzo(b)fluoranthene	14.93	252	27971	8.187	ng	# 88
89) Benzo(k)fluoranthene	14.93	252	27971	7.988	ng	# 88
90) Benzo(a)pyrene	15.28	252	13954	4.492	ng	# 87
92) Benzo(a,h,i)perylene	17.20	276	9209	3.624	ng	# 95

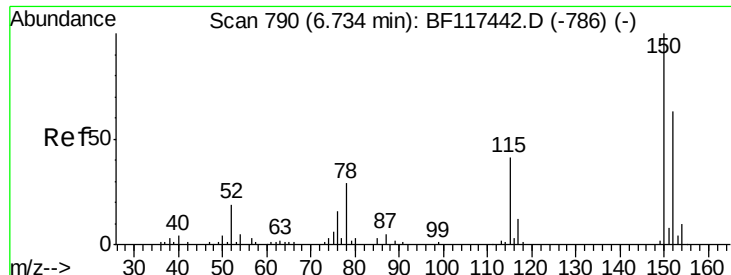
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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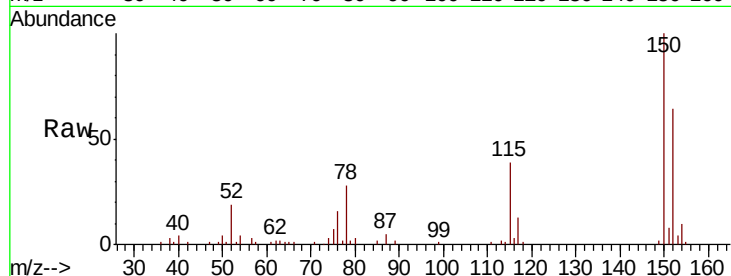


#1

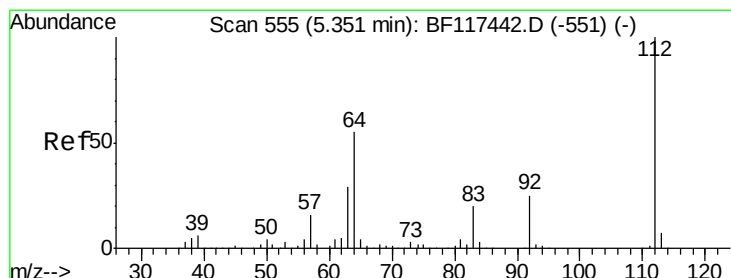
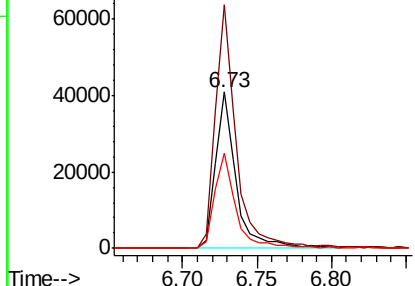
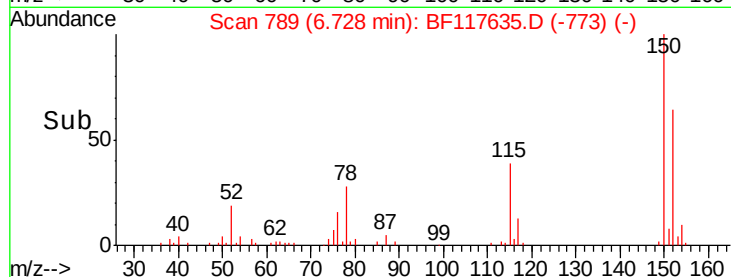
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF117635.D
Acq: 30 Oct 2019 19:59

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 39078
Ion Ratio Lower Upper
152 100
150 156.1 126.8 190.2
115 61.0 51.6 77.4



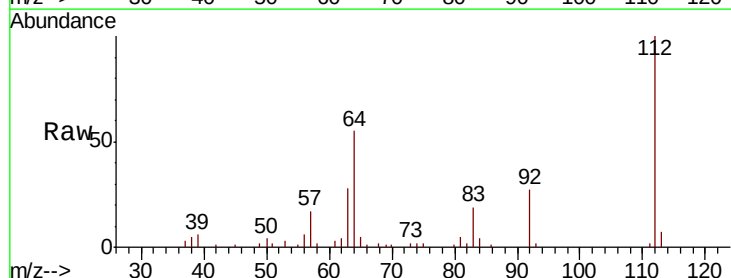
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



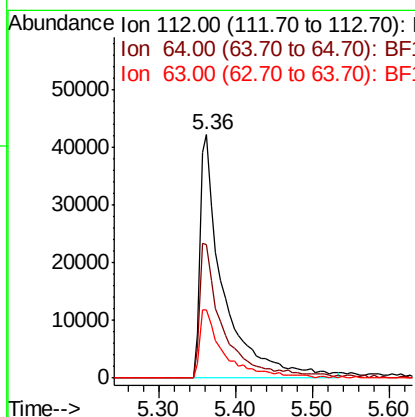
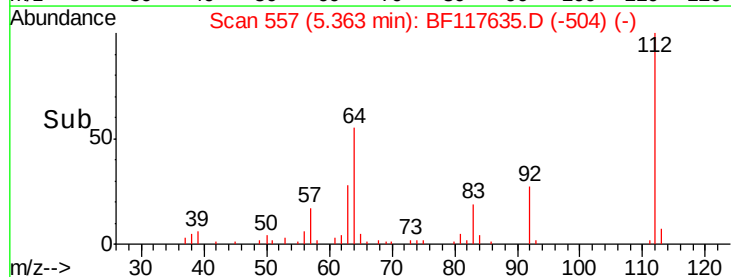
#5

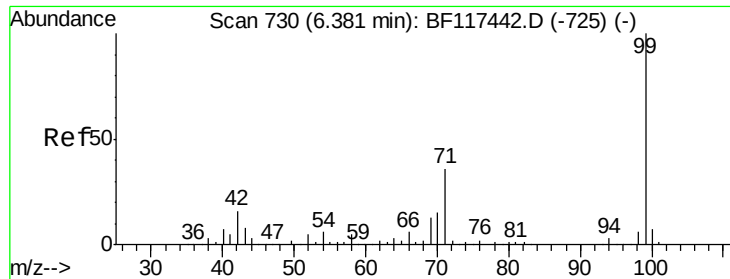
2-Fluorophenol
Concen: 33.737 ng
RT: 5.36 min Scan# 557
Delta R.T. 0.01 min
Lab File: BF117635.D
Acq: 30 Oct 2019 19:59

Tgt Ion:112 Resp: 88618
Ion Ratio Lower Upper
112 100
64 55.1 44.1 66.1
63 28.1 23.4 35.2



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





#7

Phenol-d6

Concen: 35.394 ng

RT: 6.39 min Scan# 732

Delta R.T. 0.01 min

Lab File: BF117635.D

Acq: 30 Oct 2019 19:59

Instrument :

BNA_F

ClientSampleId :

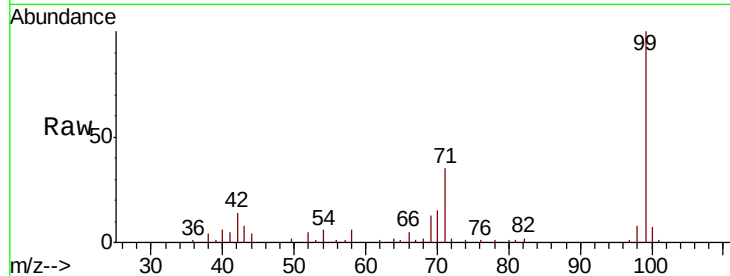
Tot Ion: 99 Resp: 124870

Ion Ratio Lower Upper

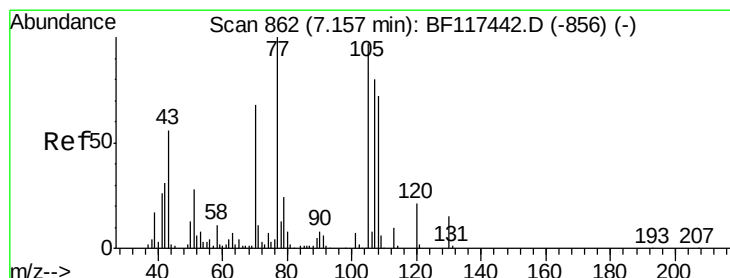
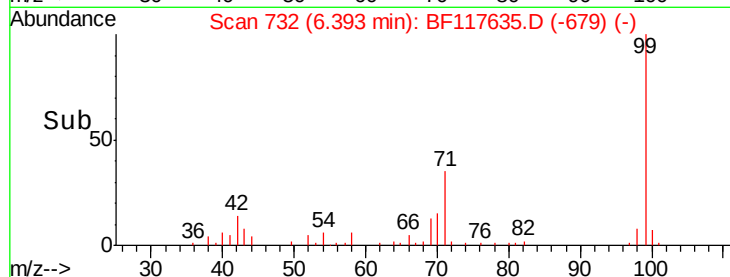
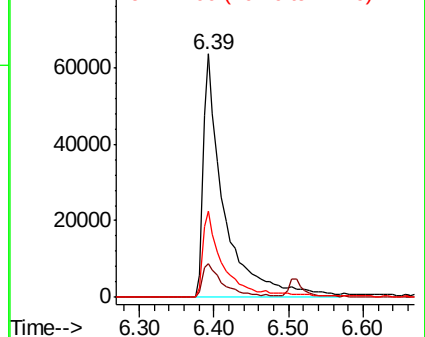
99 100

42 14.0 12.8 19.2

71 35.3 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



#19

n-Nitroso-di-n-propylamine

Concen: 3.833 ng

RT: 7.30 min Scan# 886

Delta R.T. 0.14 min

Lab File: BF117635.D

Acq: 30 Oct 2019 19:59

Tgt Ion: 70 Resp: 8259

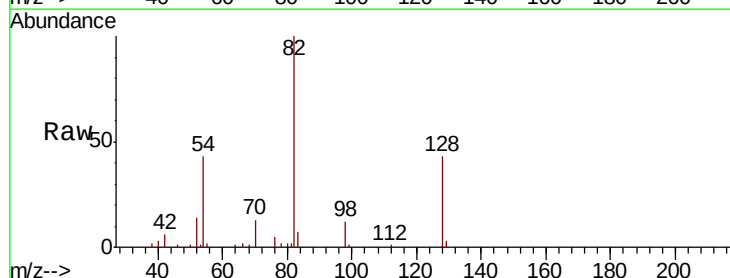
Ion Ratio Lower Upper

70 100

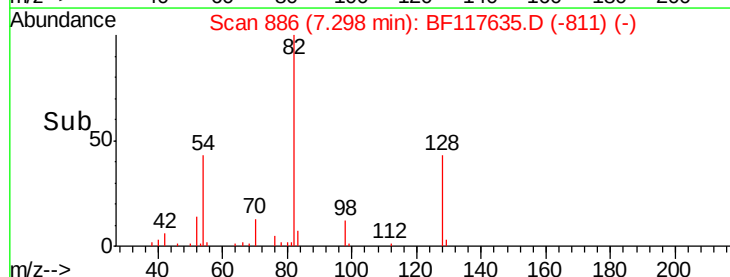
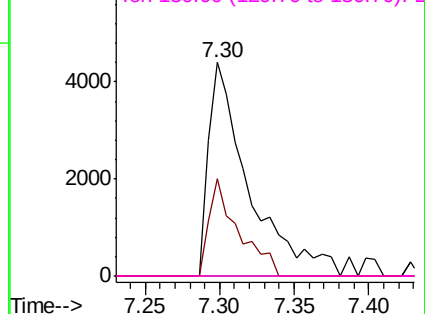
42 45.4 36.7 55.1

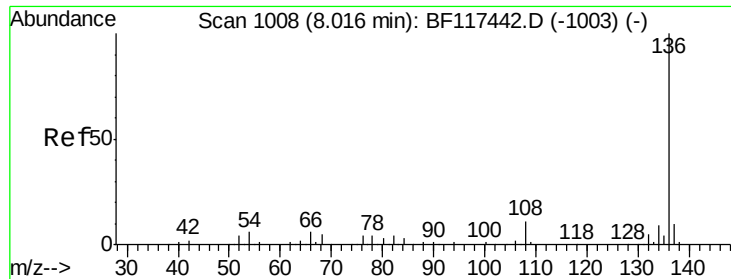
101 0.0 8.3 12.5#

130 0.0 18.1 27.1#



Abundance Ion 70.00 (69.70 to 70.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 101.00 (100.70 to 101.70): E
Ion 130.00 (129.70 to 130.70): E

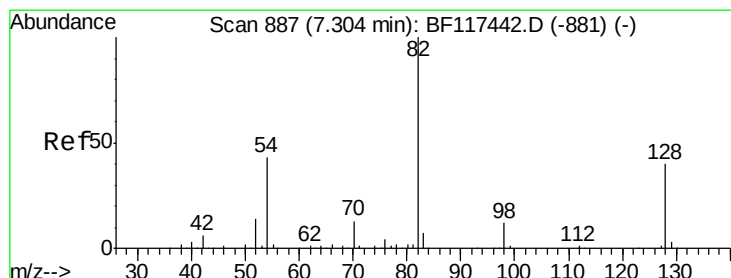
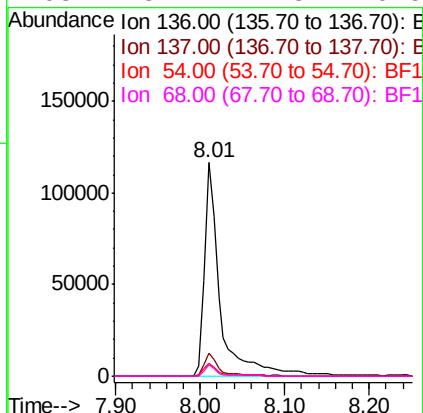
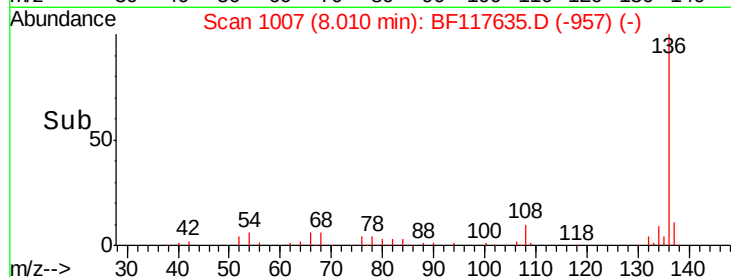
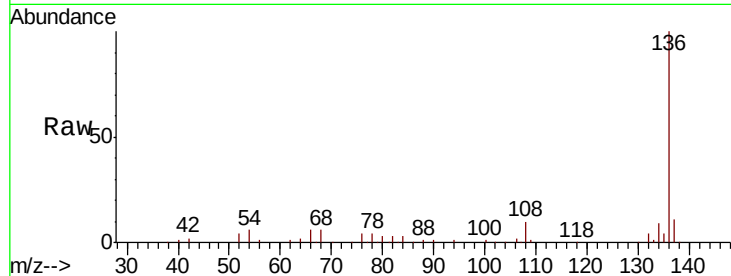




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.01 min Scan# 1007
Delta R.T. -0.01 min
Lab File: BF117635.D
Acq: 30 Oct 2019 19:59

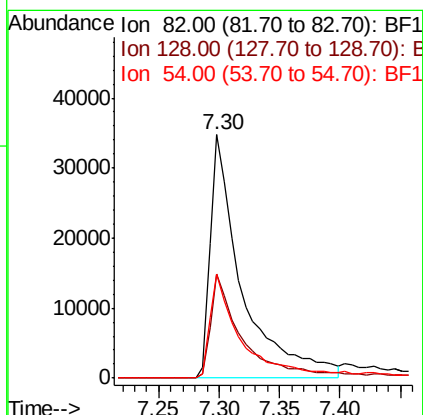
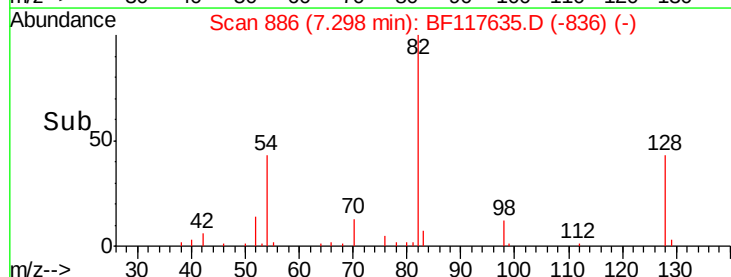
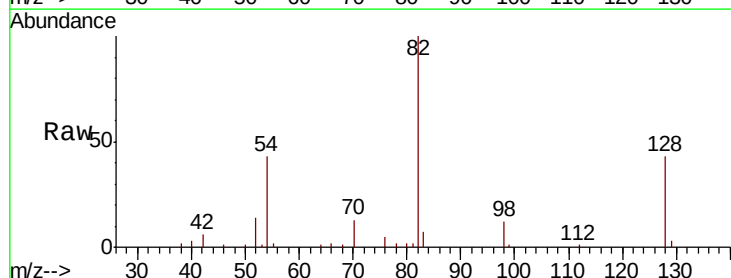
Instrument :
BNA_F
ClientSampleId :

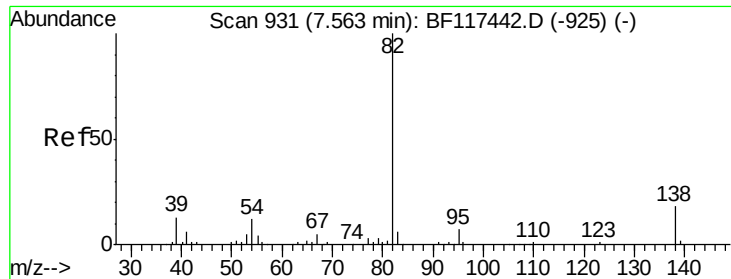
Tot Ion:136	Resp:	151927
Ion	Ratio	Lower Upper
136	100	
137	10.8	8.2 12.4
54	6.1	4.5 6.7
68	5.7	4.3 6.5



#23
Nitrobenzene-d5
Concen: 20.461 ng
RT: 7.30 min Scan# 886
Delta R.T. -0.01 min
Lab File: BF117635.D
Acq: 30 Oct 2019 19:59

Tgt Ion: 82	Resp:	62968
Ion	Ratio	Lower Upper
82	100	
128	42.6	32.2 48.2
54	42.9	34.2 51.2





#25

Isophorone

Concen: 11.828 ng

RT: 7.30 min Scan# 886

Delta R.T. -0.26 min

Lab File: BF117635.D

Acq: 30 Oct 2019 19:59

Instrument :

BNA_F

ClientSampled :

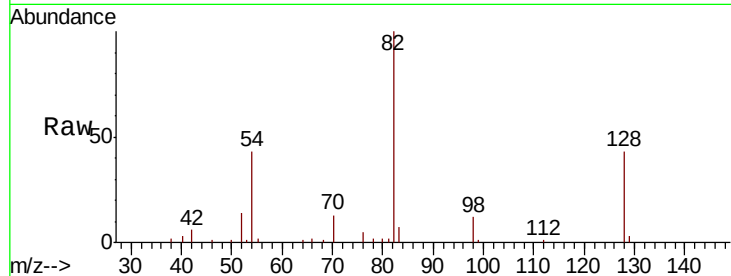
Tot Ion: 82 Resp: 62968

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.0#

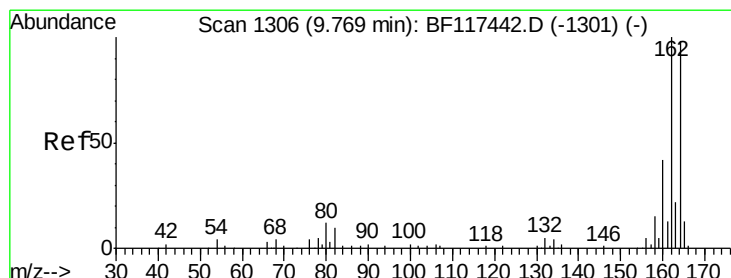
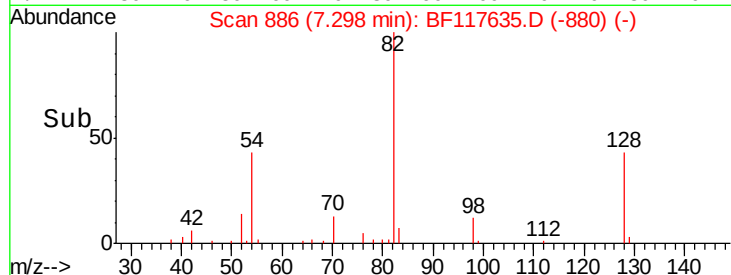
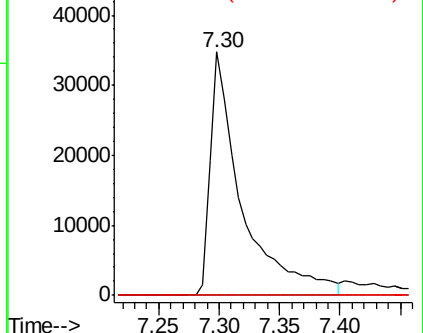
138 0.0 14.2 21.2#



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



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.76 min Scan# 1305

Delta R.T. -0.01 min

Lab File: BF117635.D

Acq: 30 Oct 2019 19:59

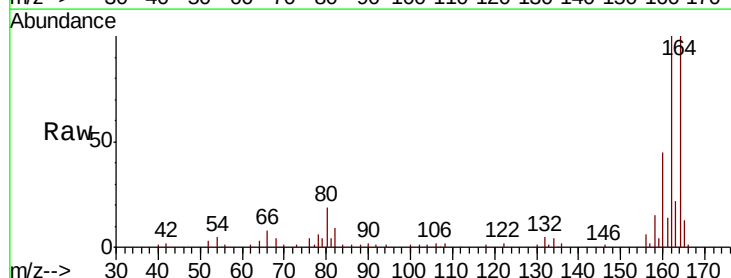
Tgt Ion:164 Resp: 69698

Ion Ratio Lower Upper

164 100

162 100.4 81.8 122.6

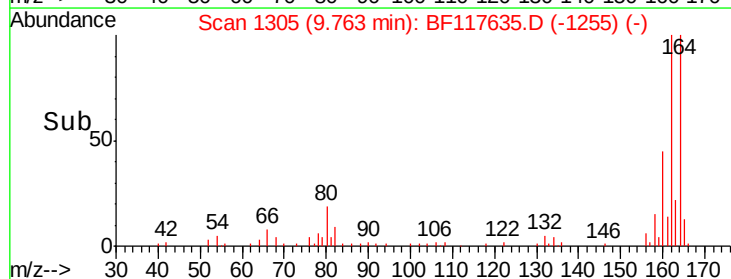
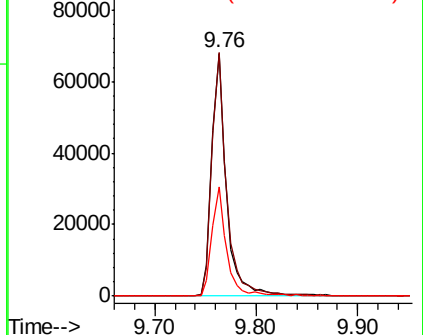
160 45.3 34.4 51.6

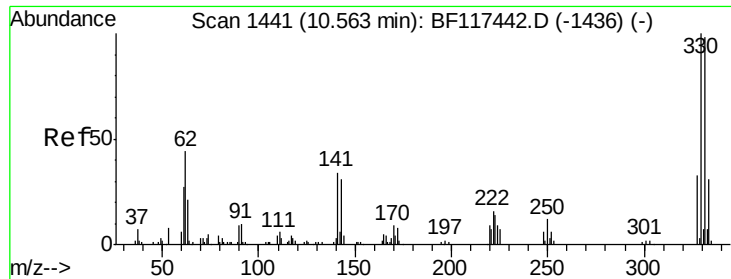


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 29.862 ng

RT: 10.56 min Scan# 1441

Delta R.T. 0.00 min

Lab File: BF117635.D

Acq: 30 Oct 2019 19:59

Instrument :

BNA_F

ClientSampleId :

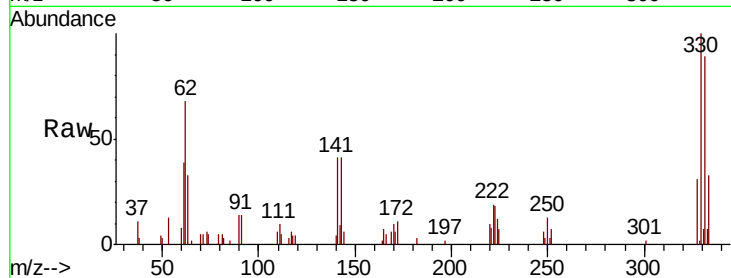
Tot Ion:330 Resp: 18009

Ion Ratio Lower Upper

330 100

332 94.0 78.5 117.7

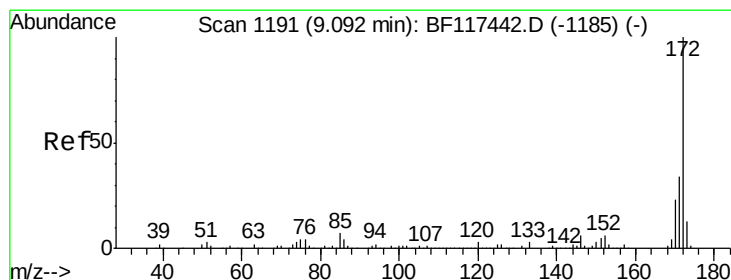
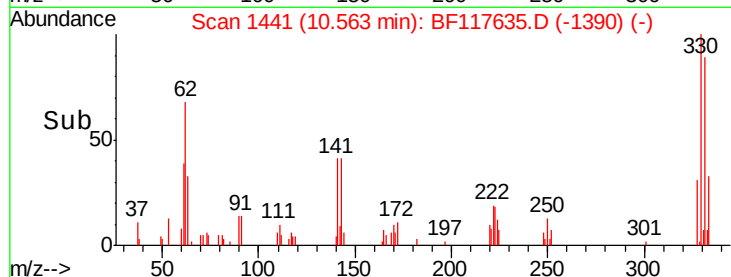
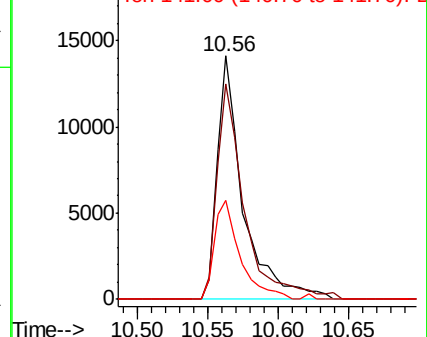
141 40.4 37.0 55.6



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



#45

2-Fluorobiphenyl

Concen: 22.455 ng

RT: 9.08 min Scan# 1189

Delta R.T. -0.01 min

Lab File: BF117635.D

Acq: 30 Oct 2019 19:59

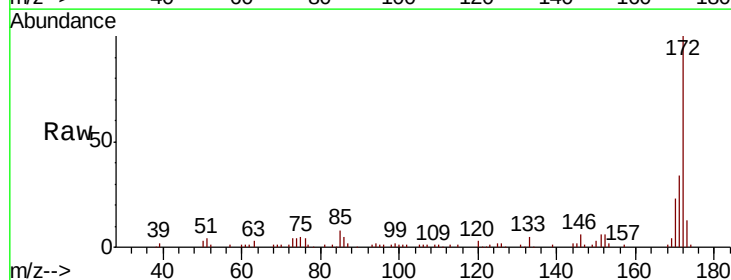
Tgt Ion:172 Resp: 111078

Ion Ratio Lower Upper

172 100

171 33.7 27.5 41.3

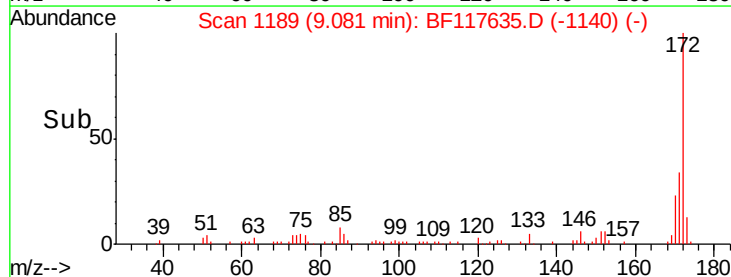
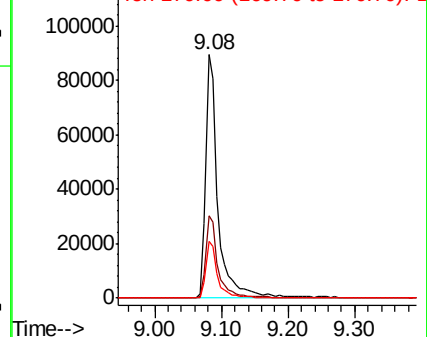
170 23.2 18.6 27.8

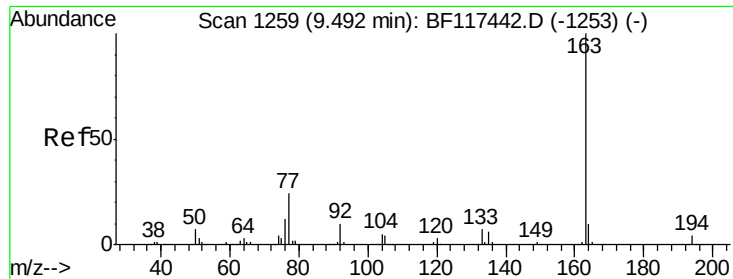


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 3.383 ng

RT: 9.49 min Scan# 1258

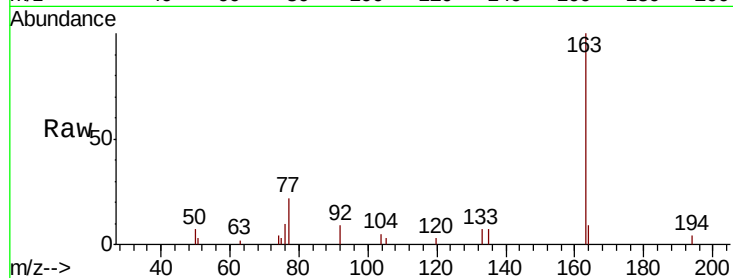
Delta R.T. -0.01 min

Lab File: BF117635.D

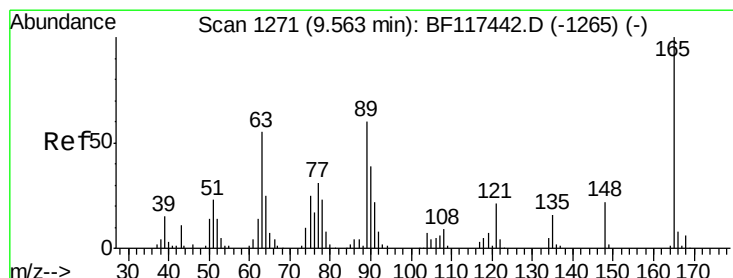
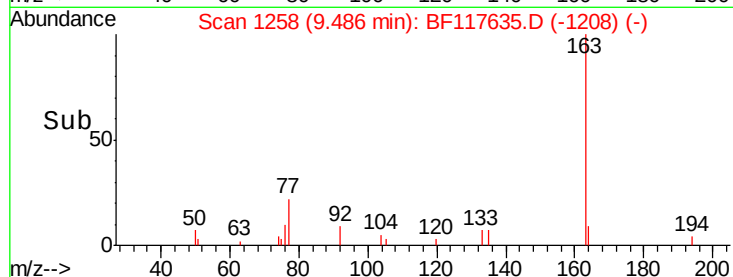
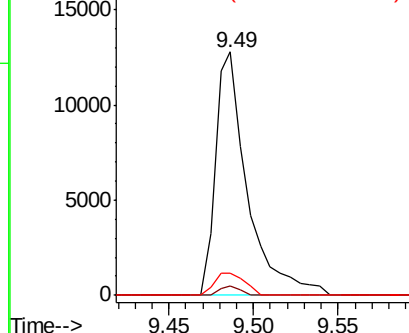
Acq: 30 Oct 2019 19:59

Instrument :
BNA_F
ClientSampleId :

Tot Ion:163	Resp:	16810
Ion Ratio	Lower	Upper
163	100	
194	4.0	2.9 4.3
164	9.0	8.2 12.2



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: 8.560 ng

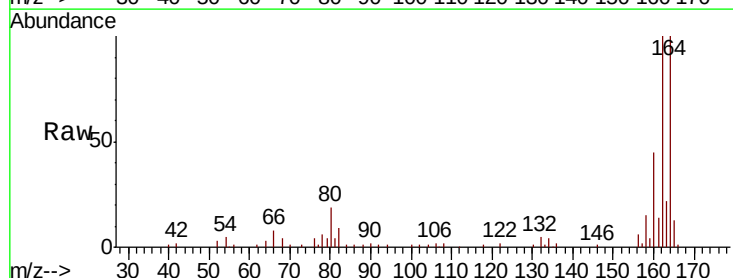
RT: 9.76 min Scan# 1305

Delta R.T. 0.20 min

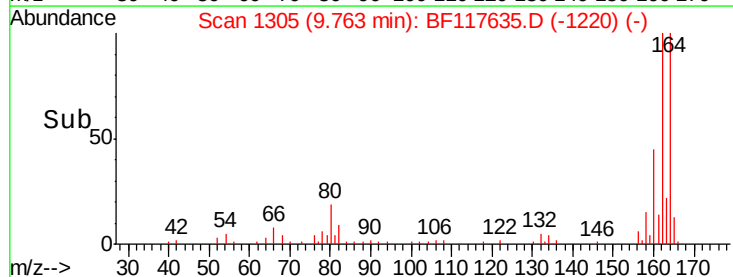
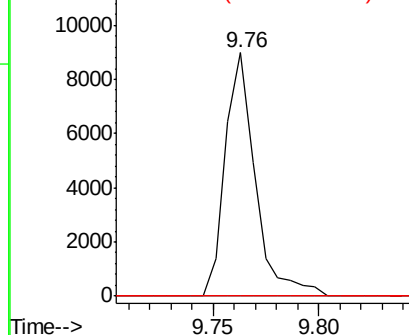
Lab File: BF117635.D

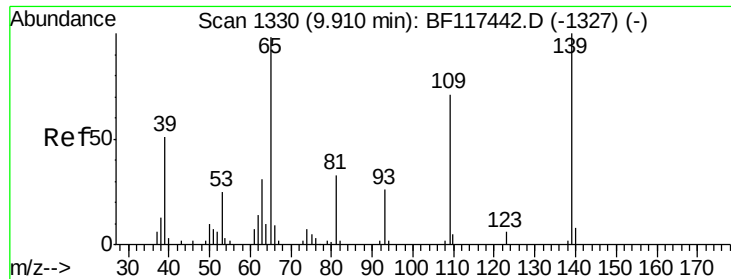
Acq: 30 Oct 2019 19:59

Tgt Ion:165	Resp:	8875
Ion Ratio	Lower	Upper
165	100	
63	0.0	43.8 65.8#
89	0.0	47.6 71.4#



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

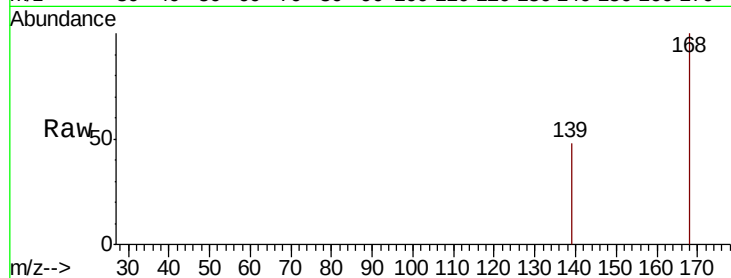




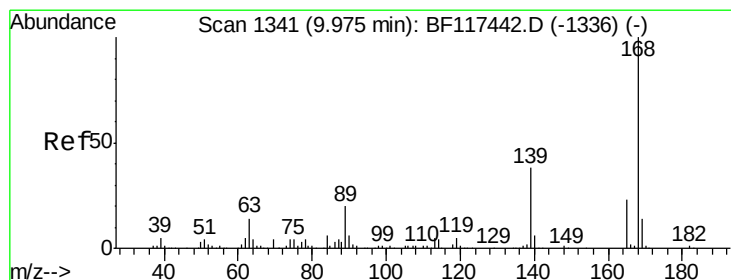
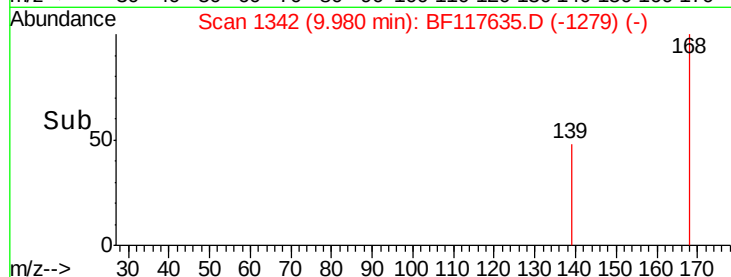
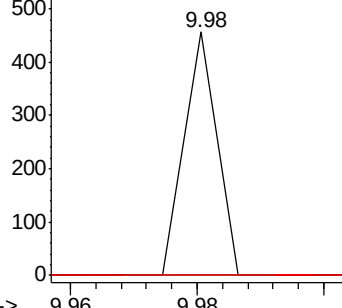
#56
4-Nitrophenol
Concen: 4.394 ng
RT: 9.98 min Scan# 1342
Delta R.T. 0.07 min
Lab File: BF117635.D
Acq: 30 Oct 2019 19:59

Instrument :
BNA_F
ClientSampleId :

Tot Ion:139 Resp: 161
Ion Ratio Lower Upper
139 100
109 0.0 51.4 91.4#
65 0.0 79.4 119.4#

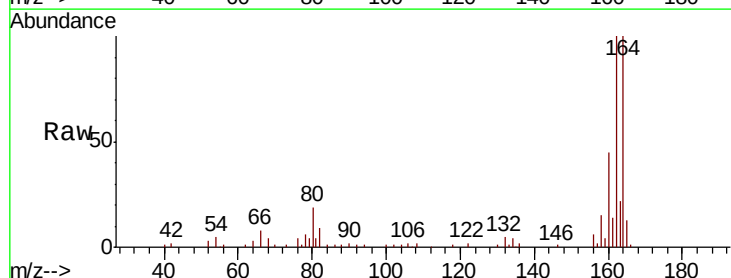


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

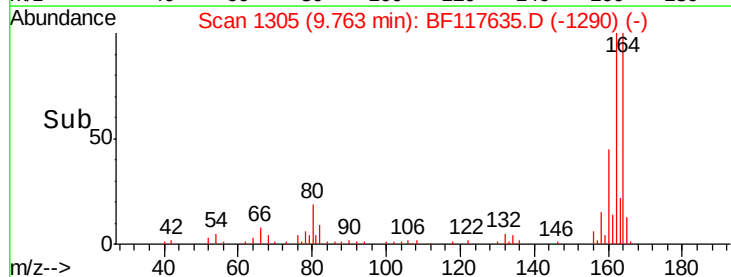
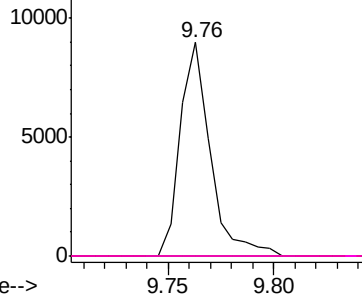


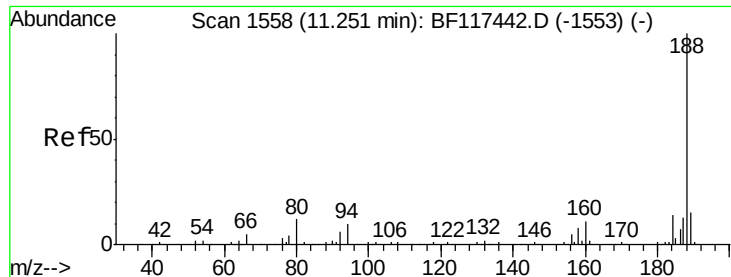
#57
2,4-Dinitrotoluene
Concen: 6.438 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.21 min
Lab File: BF117635.D
Acq: 30 Oct 2019 19:59

Tgt Ion:165 Resp: 8875
Ion Ratio Lower Upper
165 100
63 0.0 51.4 77.0#
89 0.0 69.9 104.9#
182 0.0 1.9 2.9#



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
Ion 182.00 (181.70 to 182.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.25 min Scan# 1558

Delta R.T. 0.00 min

Lab File: BF117635.D

Acq: 30 Oct 2019 19:59

Instrument :

BNA_F

ClientSampled :

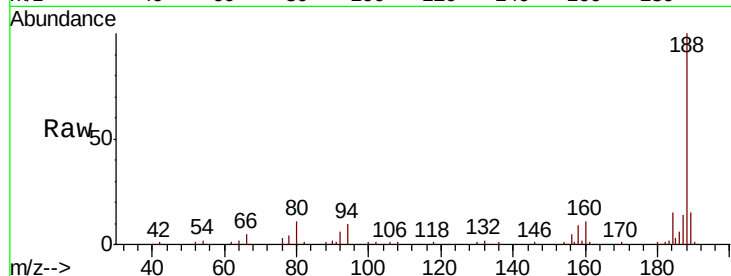
Tot Ion:188 Resp: 108233

Ion Ratio Lower Upper

188 100

94 10.1 8.0 12.0

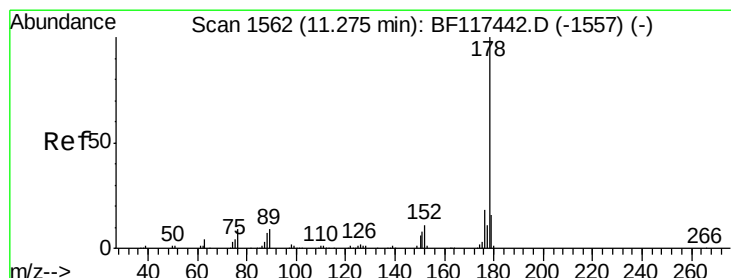
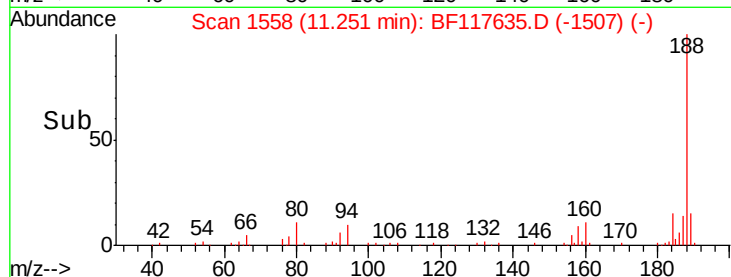
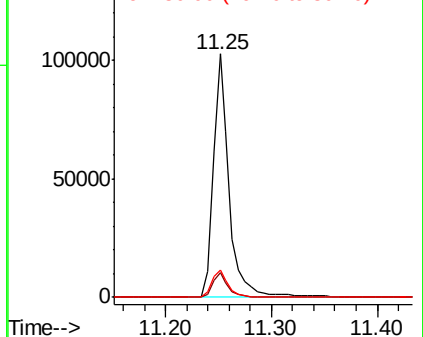
80 11.2 9.5 14.3



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



#71

Phenanthrene

Concen: 4.476 ng

RT: 11.27 min Scan# 1562

Delta R.T. 0.00 min

Lab File: BF117635.D

Acq: 30 Oct 2019 19:59

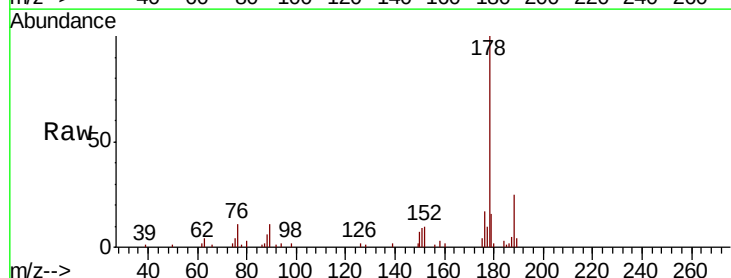
Tgt Ion:178 Resp: 28128

Ion Ratio Lower Upper

178 100

176 17.5 14.6 22.0

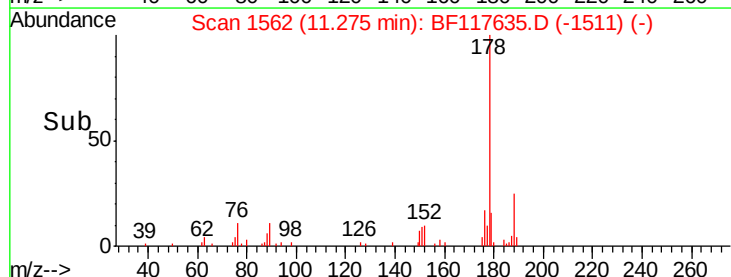
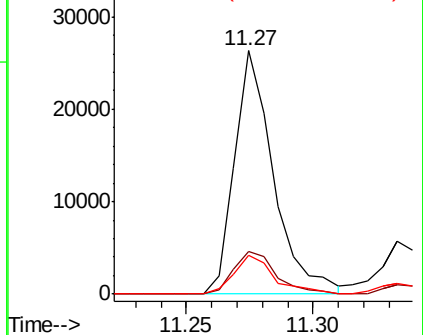
179 16.0 12.6 19.0

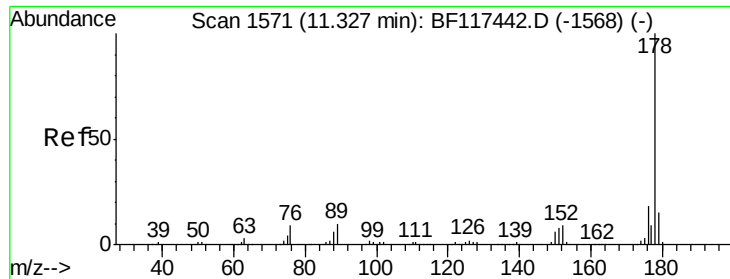


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

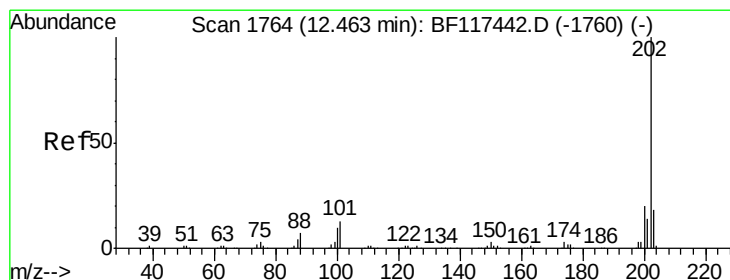
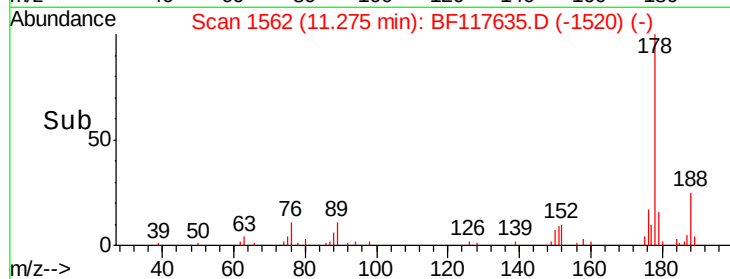
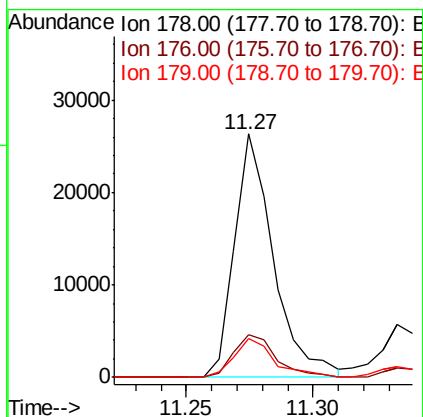
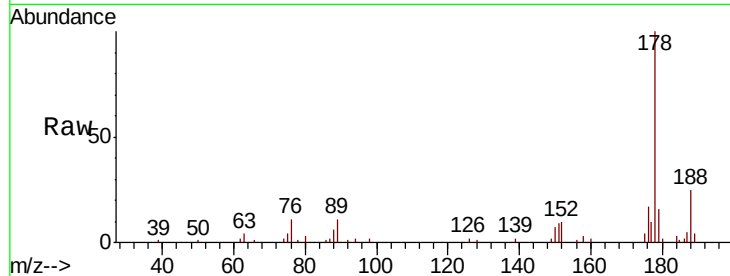




#72
 Anthracene
 Concen: 4.362 ng
 RT: 11.27 min Scan# 1562
 Delta R.T. -0.05 min
 Lab File: BF117635.D
 Acq: 30 Oct 2019 19:59

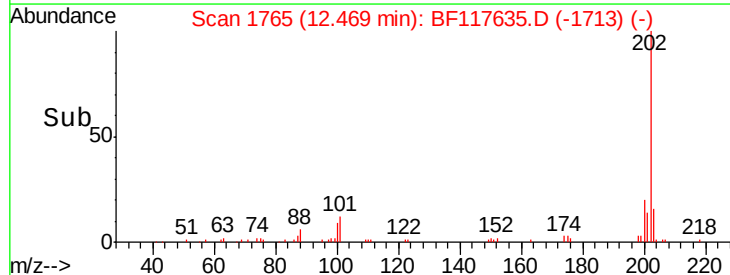
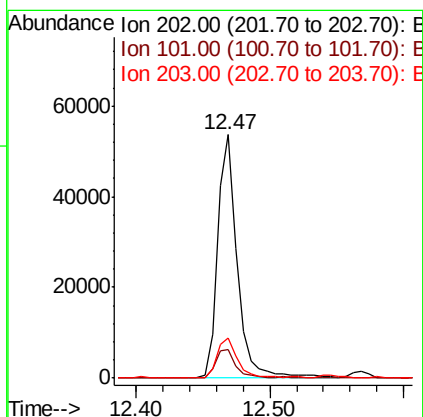
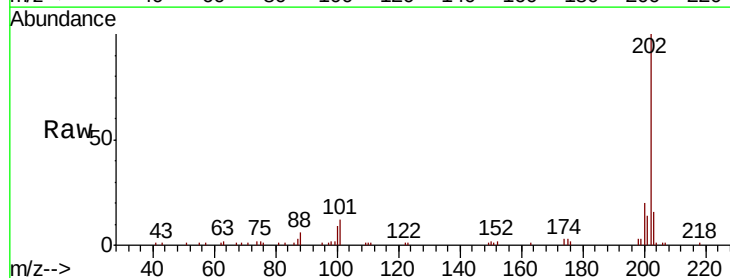
Instrument :
 BNA_F
 ClientSampleId :

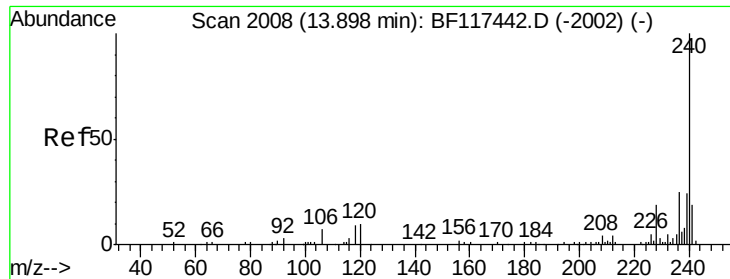
Tot Ion:178 Resp: 28128
 Ion Ratio Lower Upper
 178 100
 176 17.5 14.7 22.1
 179 16.0 12.2 18.2



#75
 Fluoranthene
 Concen: 8.833 ng
 RT: 12.47 min Scan# 1765
 Delta R.T. 0.01 min
 Lab File: BF117635.D
 Acq: 30 Oct 2019 19:59

Tgt Ion:202 Resp: 55573
 Ion Ratio Lower Upper
 202 100
 101 11.6 0.0 32.7
 203 16.3 0.0 37.6

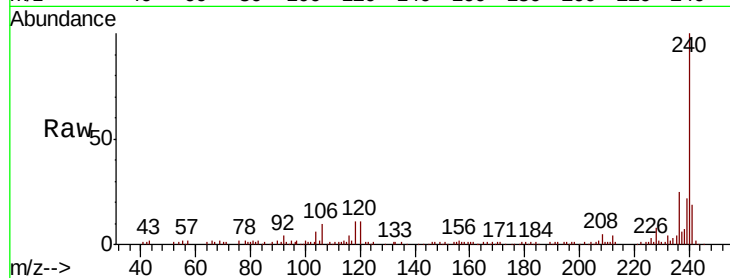




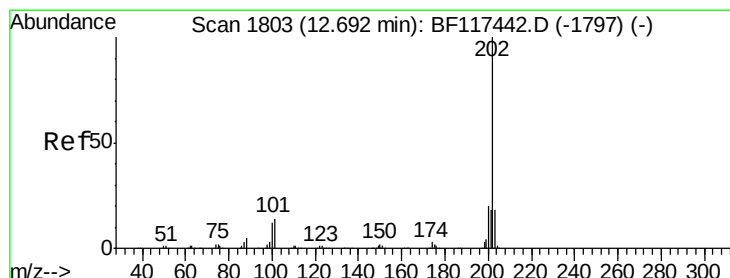
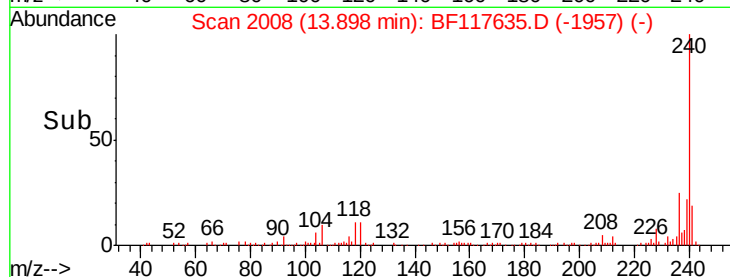
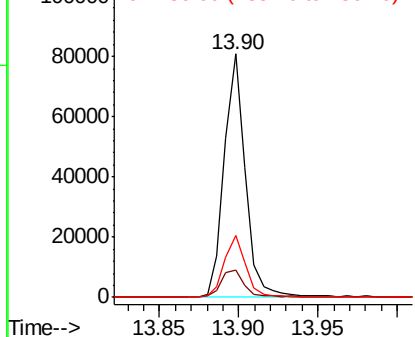
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.90 min Scan# 2008
Delta R.T. 0.00 min
Lab File: BF117635.D
Acq: 30 Oct 2019 19:59

Instrument :
BNA_F
ClientSampled :

Tot Ion:240 Resp: 75093
Ion Ratio Lower Upper
240 100
120 11.3 8.4 12.6
236 25.3 20.0 30.0

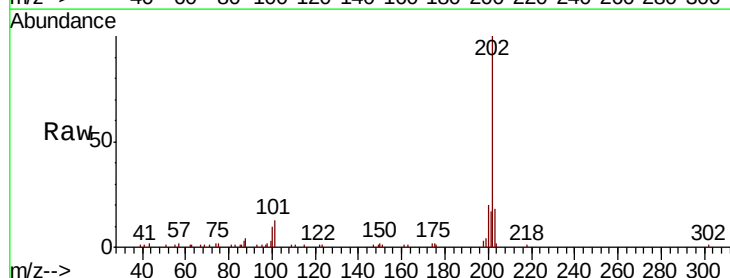


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

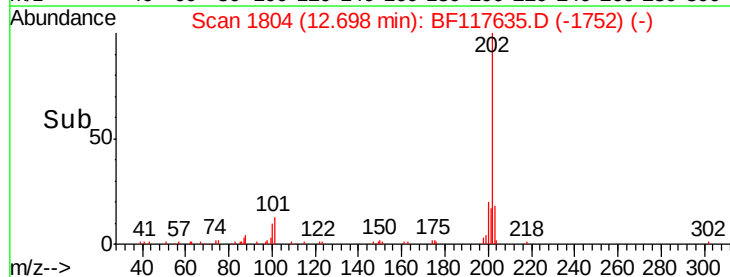
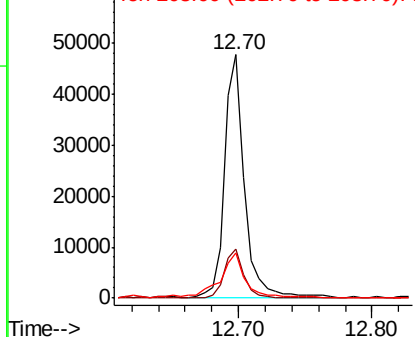


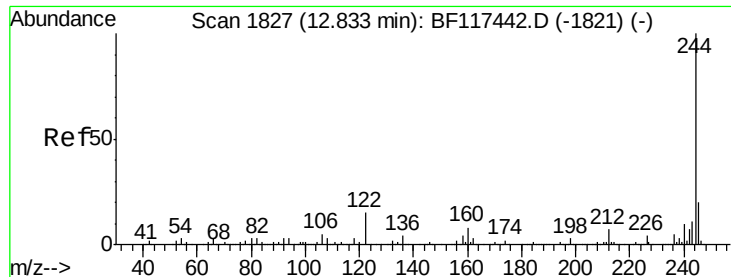
#78
Pyrene
Concen: 7.823 ng
RT: 12.70 min Scan# 1804
Delta R.T. 0.01 min
Lab File: BF117635.D
Acq: 30 Oct 2019 19:59

Tgt Ion:202 Resp: 50459
Ion Ratio Lower Upper
202 100
200 19.9 16.2 24.2
203 18.4 14.0 21.0



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: 21.059 ng

RT: 12.83 min Scan# 1826

Delta R.T. -0.01 min

Lab File: BF117635.D

Acq: 30 Oct 2019 19:59

Instrument :

BNA_F

ClientSampled :

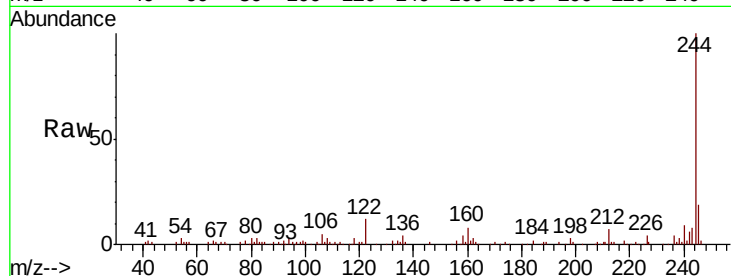
Tot Ion:244 Resp: 96950

Ion Ratio Lower Upper

244 100

212 7.1 5.8 8.6

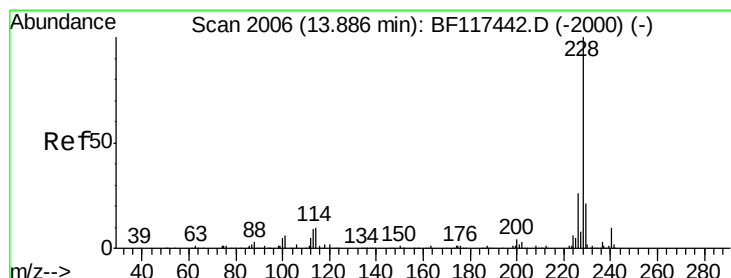
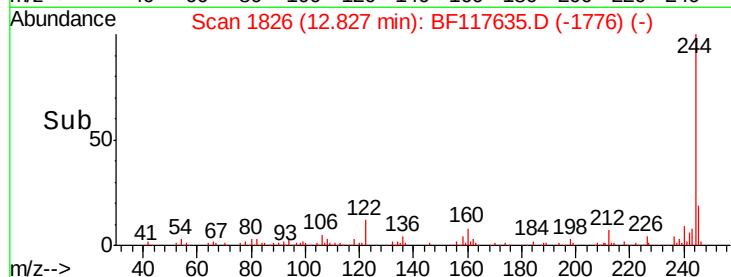
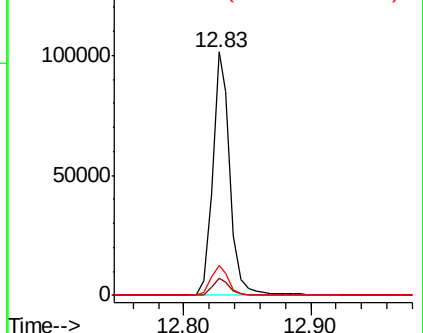
122 12.3 11.8 17.8



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 4.692 ng

RT: 13.89 min Scan# 2006

Delta R.T. 0.00 min

Lab File: BF117635.D

Acq: 30 Oct 2019 19:59

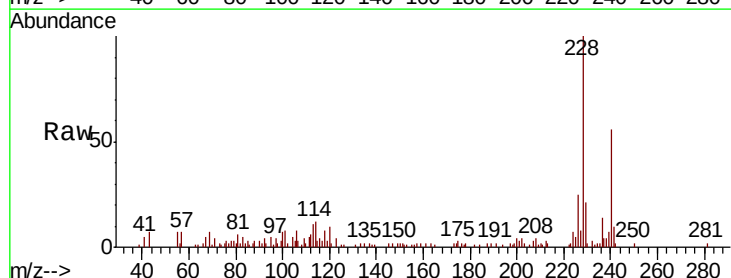
Tgt Ion:228 Resp: 23767

Ion Ratio Lower Upper

228 100

226 25.4 21.0 31.4

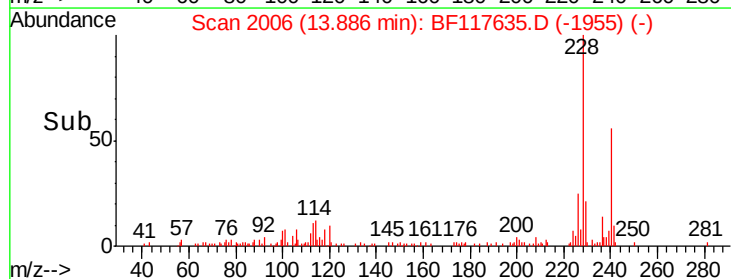
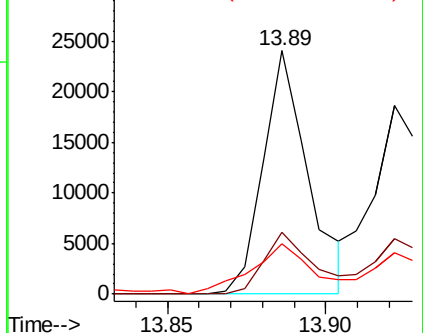
229 20.7 16.4 24.6

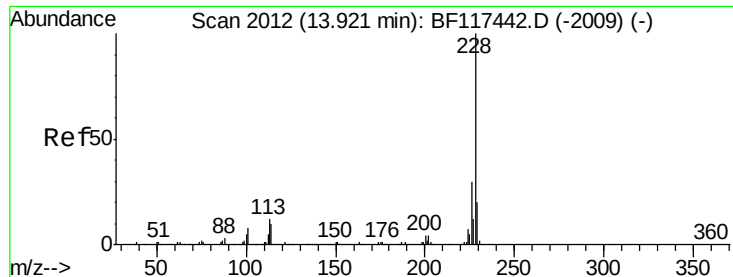


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

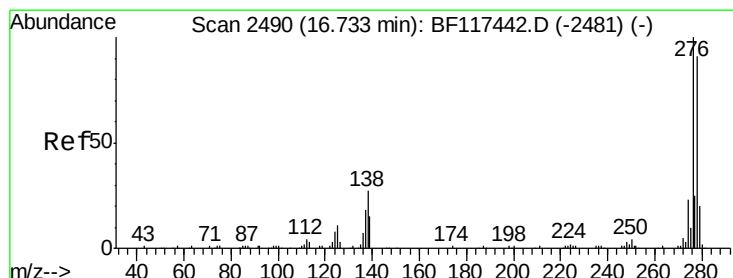
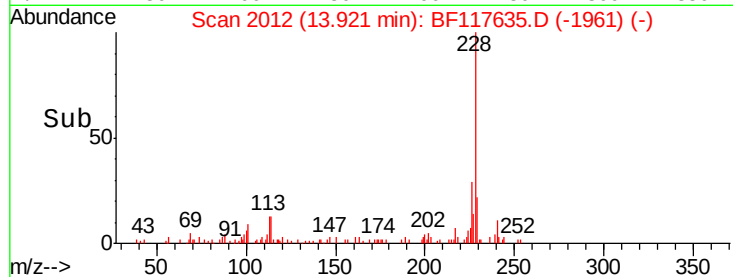
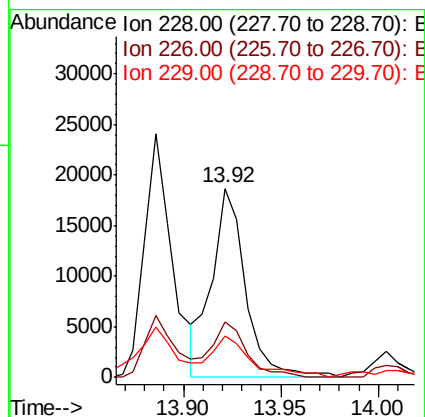
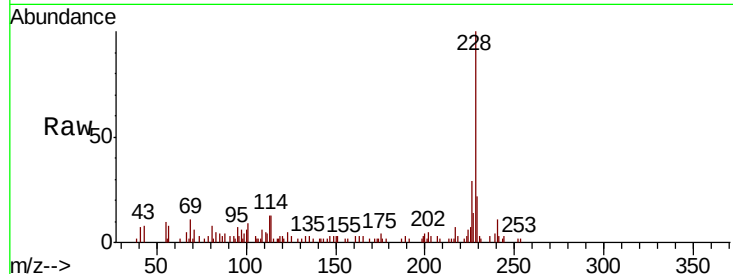




#83
Chrysene
Concen: 4.530 ng
RT: 13.92 min Scan# 2012
Delta R.T. 0.00 min
Lab File: BF117635.D
Acq: 30 Oct 2019 19:59

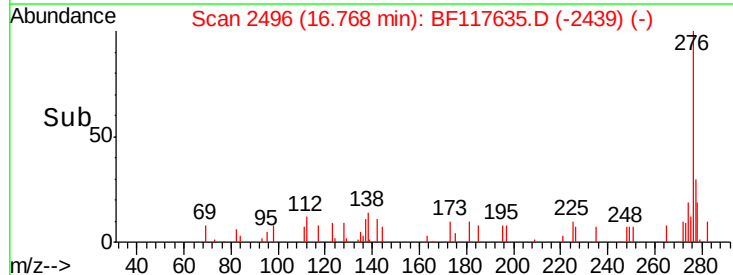
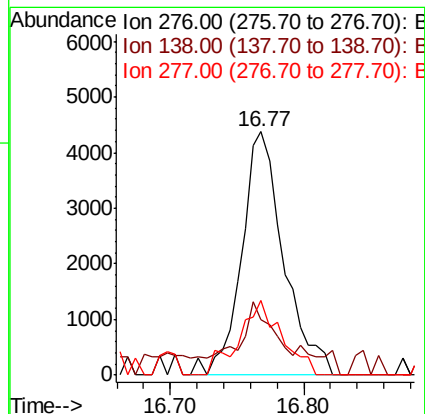
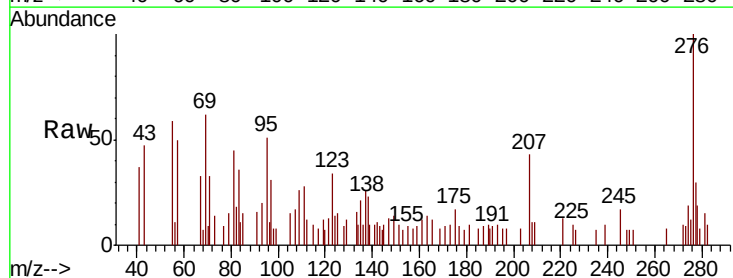
Instrument :
BNA_F
ClientSampleId :

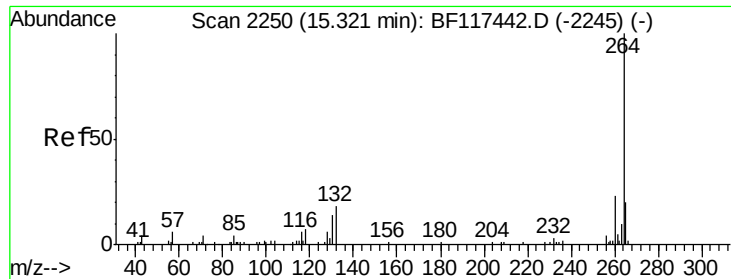
Tot Ion:228 Resp: 22488
Ion Ratio Lower Upper
228 100
226 29.4 23.9 35.9
229 22.1 15.8 23.6



#86
Indeno(1,2,3-cd)pyrene
Concen: 2.570 ng
RT: 16.77 min Scan# 2496
Delta R.T. 0.04 min
Lab File: BF117635.D
Acq: 30 Oct 2019 19:59

Tgt Ion:276 Resp: 9525
Ion Ratio Lower Upper
276 100
138 14.8 21.8 32.8#
277 31.6 20.0 30.0#



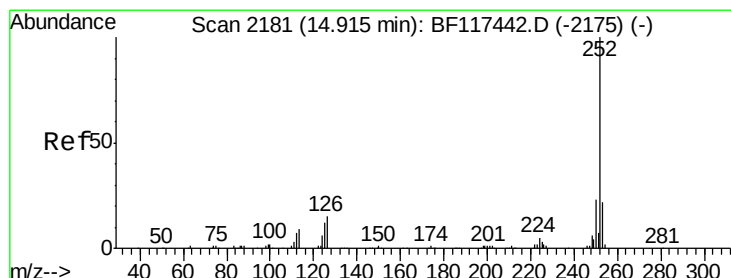
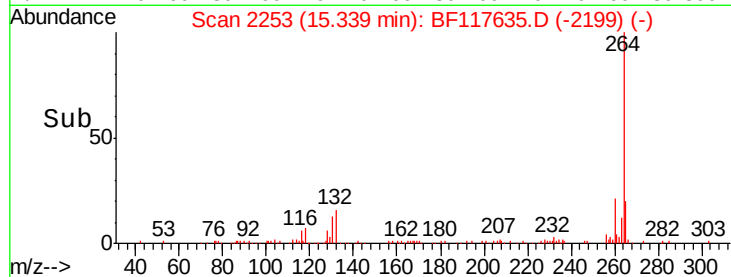
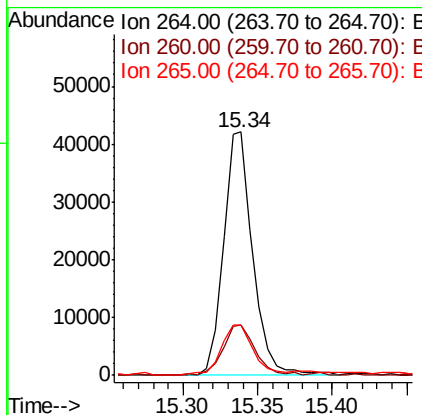
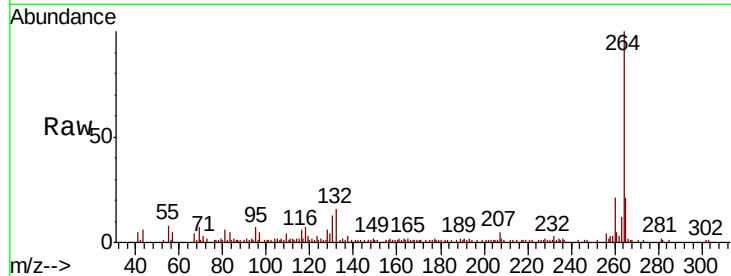


#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.34 min Scan# 2253
Delta R.T. 0.02 min
Lab File: BF117635.D
Acq: 30 Oct 2019 19:59

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 57857

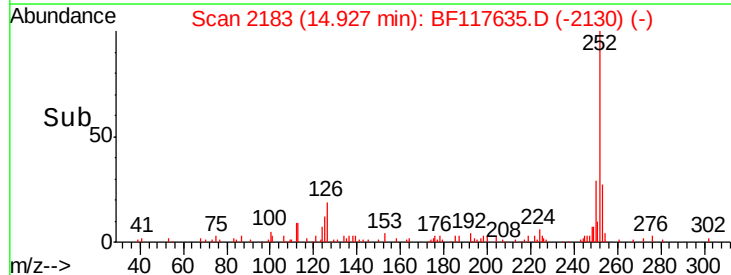
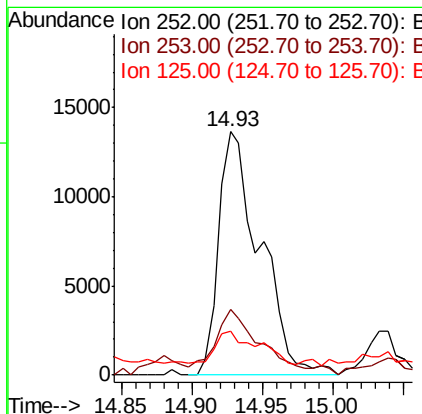
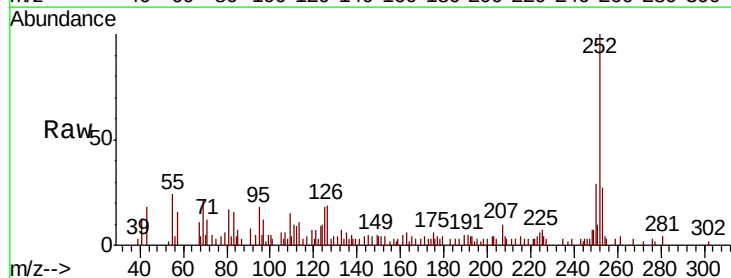
Ion	Ratio	Lower	Upper
264	100		
260	20.6	18.4	27.6
265	20.6	16.1	24.1

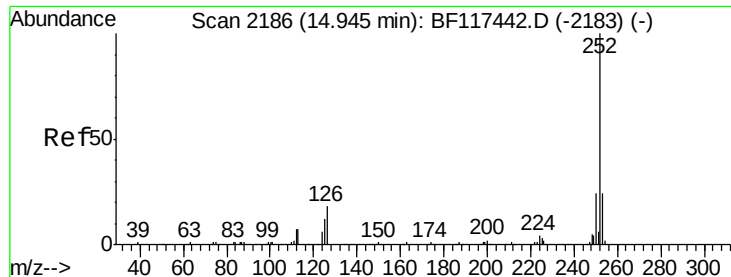


#88
Benzo(b)fluoranthene
Concen: 8.187 ng
RT: 14.93 min Scan# 2183
Delta R.T. 0.01 min
Lab File: BF117635.D
Acq: 30 Oct 2019 19:59

Tgt Ion:252 Resp: 27971

Ion	Ratio	Lower	Upper
252	100		
253	27.1	17.8	26.6#
125	18.0	9.9	14.9#





#89

Benzo(k)fluoranthene

Concen: 7.988 ng

RT: 14.93 min Scan# 2183

Delta R.T. -0.02 min

Lab File: BF117635.D

Acq: 30 Oct 2019 19:59

Instrument :

BNA_F

ClientSampleId :

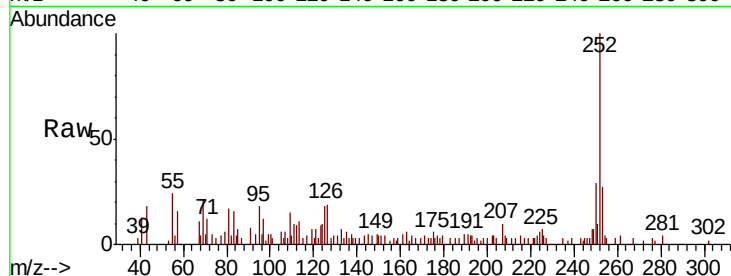
Tot Ion:252 Resp: 27971

Ion Ratio Lower Upper

252 100

253 27.1 18.0 27.0#

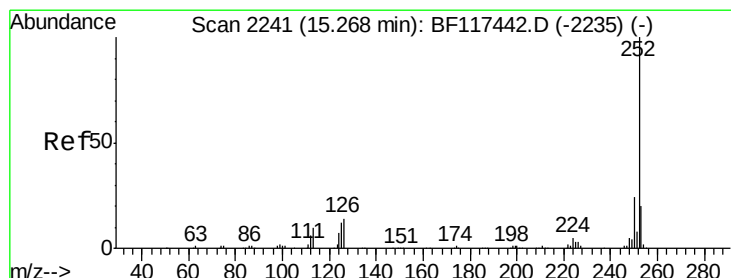
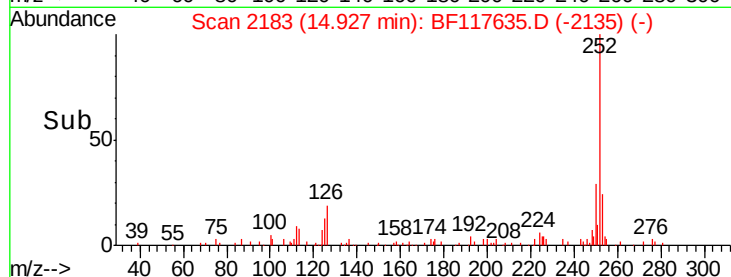
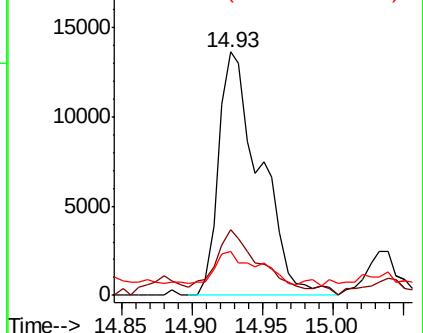
125 18.0 8.9 13.3#



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



#90

Benzo(a)pyrene

Concen: 4.492 ng

RT: 15.28 min Scan# 2243

Delta R.T. 0.01 min

Lab File: BF117635.D

Acq: 30 Oct 2019 19:59

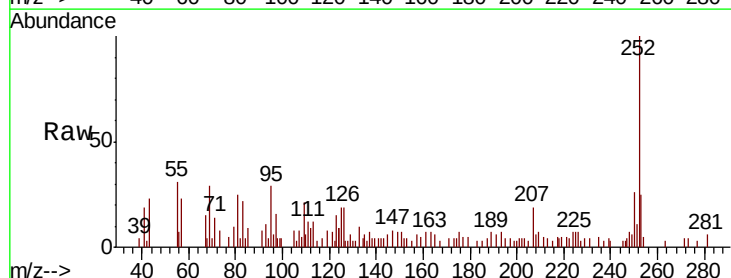
Tgt Ion:252 Resp: 13954

Ion Ratio Lower Upper

252 100

253 25.1 16.3 24.5#

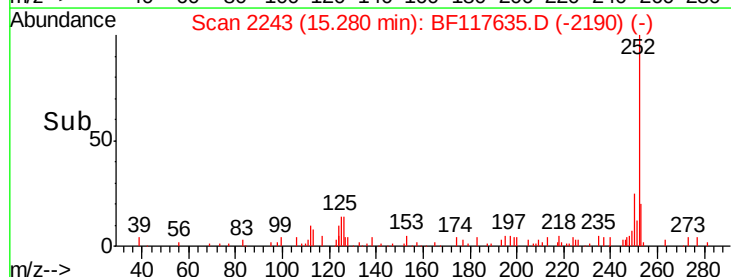
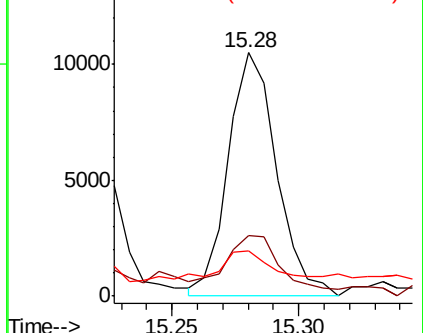
125 18.6 9.2 13.8#

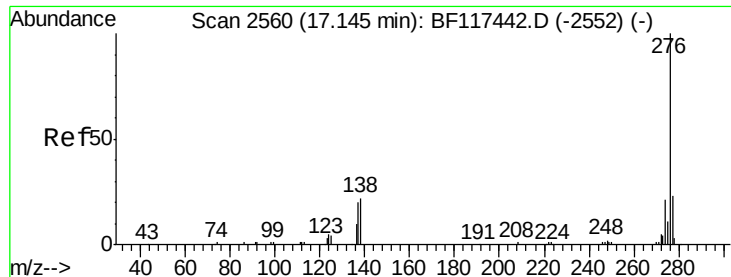


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

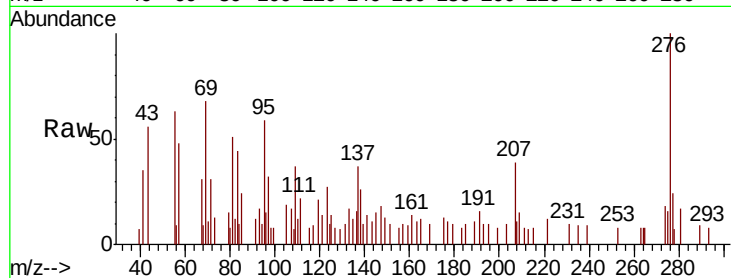




#92
 Benzo(a,h,i)perylene
 Concen: 3.624 ng
 RT: 17.20 min Scan# 2570
 Delta R.T. 0.06 min
 Lab File: BF117635.D
 Acq: 30 Oct 2019 19:59

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ion	Ratio	Lower	Upper
276	100			
277	24.0	18.4	27.6	
138	26.2	17.8	26.6	



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

