

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102519\
 Data File : BF117541.D
 Acq On : 25 Oct 2019 17:33
 Operator : JU
 Sample : K5502-01
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 182-08-(0-2)

Quant Time: Oct 26 00:12:39 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	33969	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	132242	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	64831	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	90095	20.00	ng	0.00
76) Chrysene-d12	13.89	240	64549	20.00	ng	0.00
87) Perylene-d12	15.33	264	60922	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.35	112	230422	100.92	ng	0.00
7) Phenol-d6	6.38	99	319084	104.05	ng	0.00
23) Nitrobenzene-d5	7.29	82	194347	72.55	ng	-0.01
42) 2,4,6-Tribromophenol	10.56	330	49666	88.54	ng	0.00
45) 2-Fluorobiphenyl	9.08	172	296301	64.40	ng	-0.01
79) Terphenyl-d14	12.83	244	199876	50.51	ng	0.00

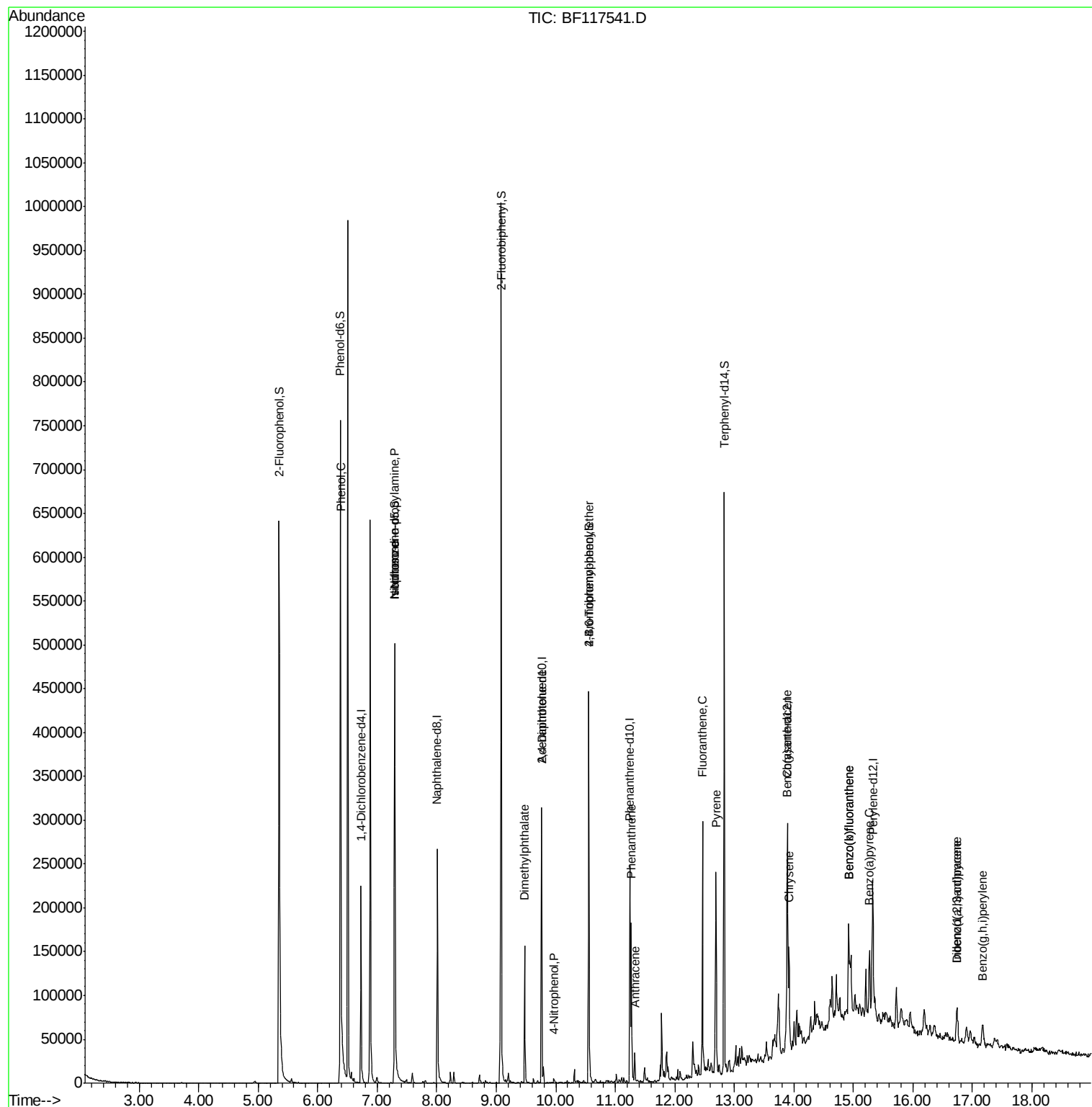
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.38	77	297	Below Cal	#	3
10) Phenol	6.39	94	7898	2.523	ng	# 76
19) n-Nitroso-di-n-propylamine	7.29	70	25632	13.686	ng	# 79
25) Isophorone	7.29	82	194345	41.939	ng	# 65
50) Dimethylphthalate	9.48	163	61443	13.294	ng	# 98
56) 4-Nitrophenol	9.97	139	1071	6.016	ng	# 6
57) 2,4-Dinitrotoluene	9.76	165	8140	6.348	ng	# 12
67) 4-Bromophenyl-phenylether	10.56	248	3077	3.171	ng	# 1
71) Phenanthrene	11.27	178	70690	13.512	ng	# 99
72) Anthracene	11.33	178	15648	2.915	ng	# 97
75) Fluoranthene	12.46	202	107060	20.443	ng	# 99
77) Benzidine	12.83	184	2517	Below Cal	#	93
78) Pvrene	12.69	202	91790	16.555	ng	# 99
81) Benzo(a)anthracene	13.88	228	46005	10.566	ng	# 95
83) Chrysene	13.92	228	40895	9.583	ng	# 97
86) Indeno(1,2,3-cd)pyrene	16.74	276	19730	6.193	ng	# 97
88) Benzo(b)fluoranthene	14.92	252	68986	19.176	ng	# 96
89) Benzo(k)fluoranthene	14.92	252	68986	18.709	ng	# 96
90) Benzo(a)pvrene	15.27	252	33665	10.292	ng	# 93
91) Dibenzo(a,h)anthracene	16.74	278	5996	2.120	ng	# 70
92) Benzo(g,h,i)perylene	17.17	276	17286	6.460	ng	# 86

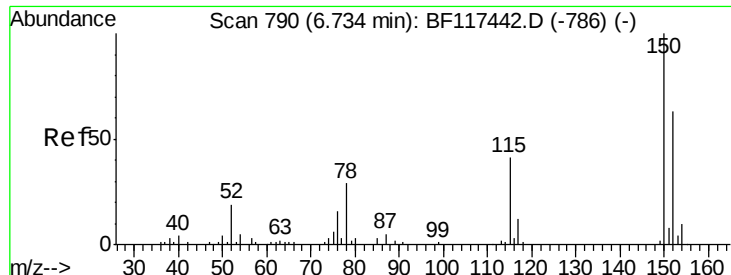
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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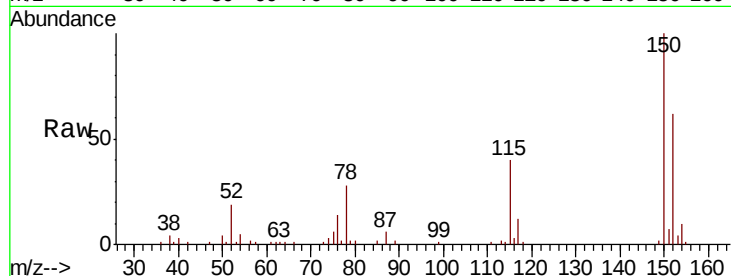


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF117541.D
Acq: 25 Oct 2019 17:33

Instrument :
BNA_F
ClientSampleId :
182-08-(0-2)

Tot Ion	Ratio	Lower	Upper
152	100		
150	161.8	126.8	190.2
115	65.2	51.6	77.4

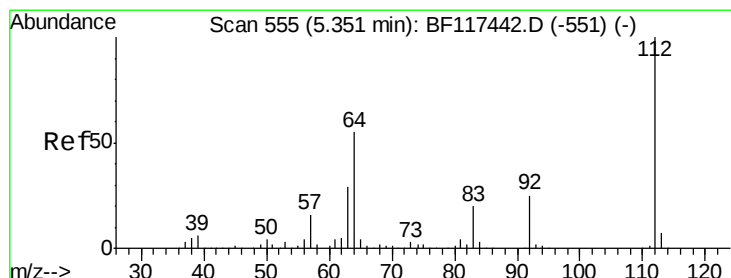
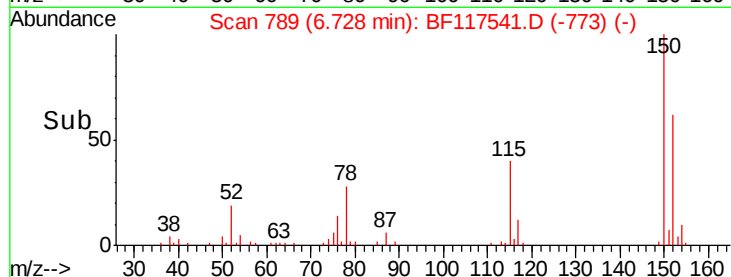
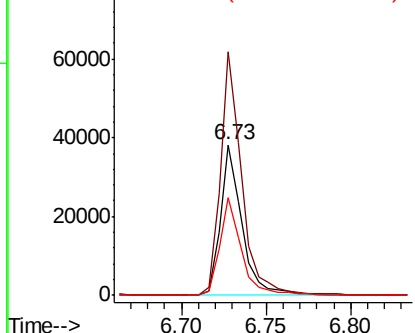


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

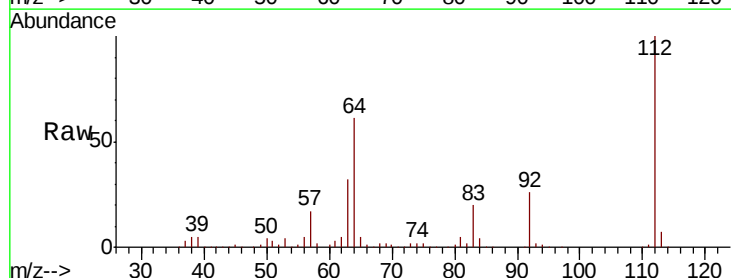
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 100.915 ng
RT: 5.35 min Scan# 555
Delta R.T. -0.00 min
Lab File: BF117541.D
Acq: 25 Oct 2019 17:33

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.5	44.1	66.1
63	32.1	23.4	35.2

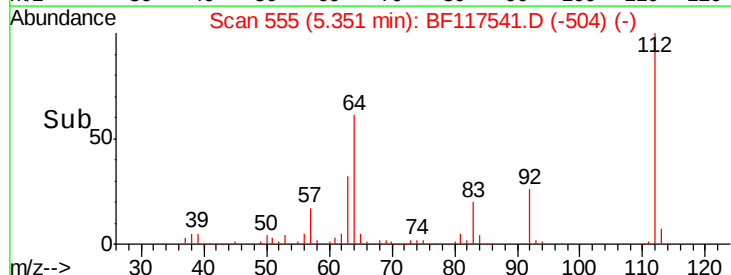
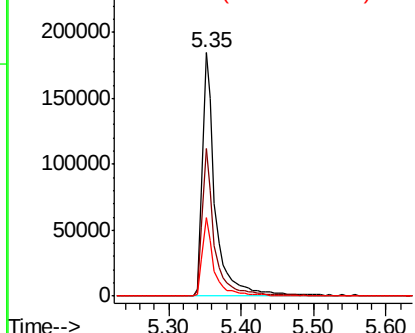


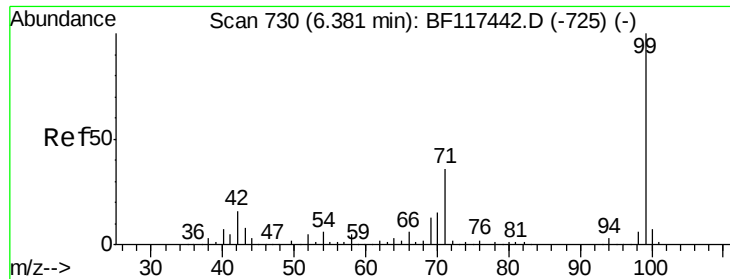
Abundance

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: 104.046 ng

RT: 6.38 min Scan# 730

Delta R.T. -0.00 min

Lab File: BF117541.D

Acq: 25 Oct 2019 17:33

Instrument :

BNA_F

ClientSampleId :

182-08-(0-2)

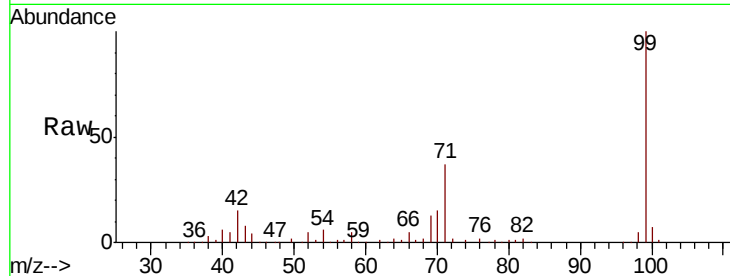
Tot Ion: 99 Resp: 319084

Ion Ratio Lower Upper

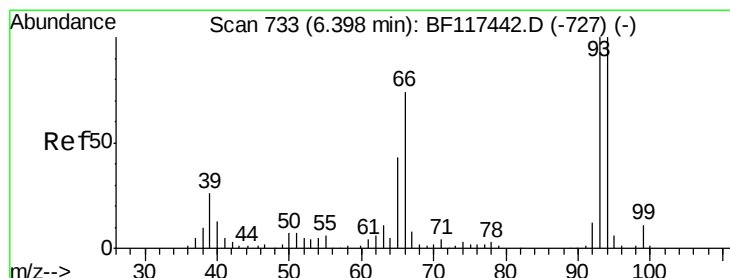
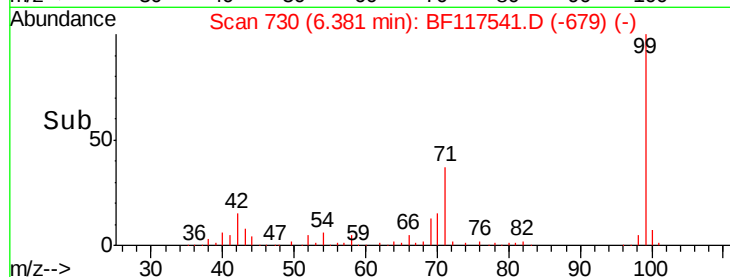
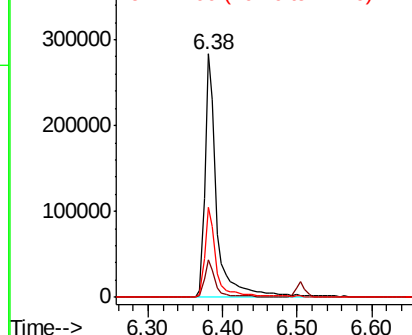
99 100

42 15.2 12.8 19.2

71 36.9 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



#10

Phenol

Concen: 2.523 ng

RT: 6.39 min Scan# 732

Delta R.T. -0.01 min

Lab File: BF117541.D

Acq: 25 Oct 2019 17:33

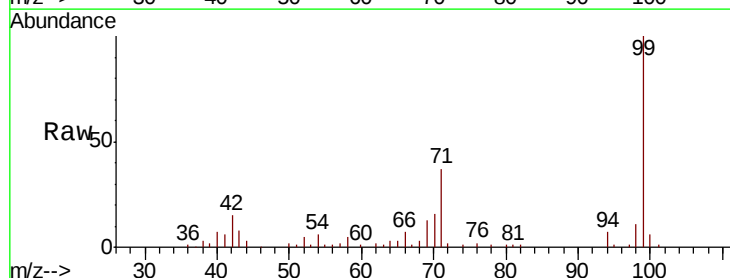
Tgt Ion: 94 Resp: 7898

Ion Ratio Lower Upper

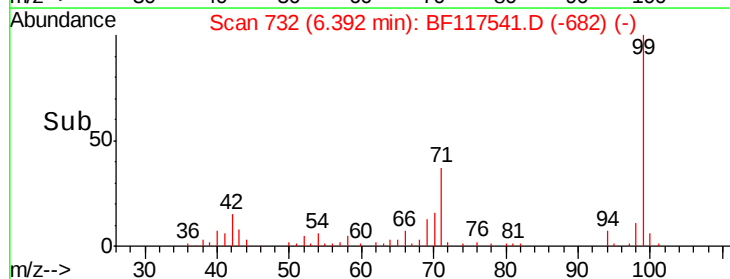
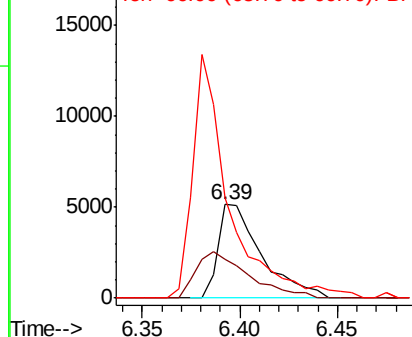
94 100

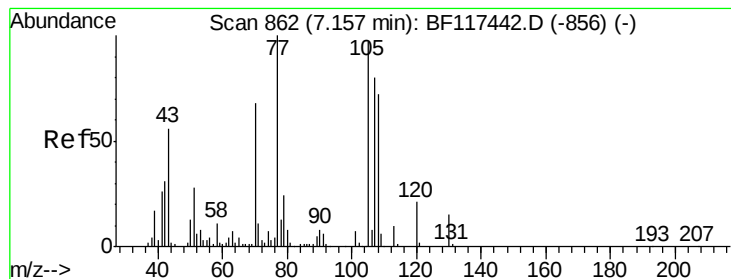
65 42.0 23.4 63.4

66 106.4 54.7 94.7#



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





#19

n-Nitroso-di-n-propylamine

Concen: 13.686 ng

RT: 7.29 min Scan# 885

Delta R.T. 0.14 min

Lab File: BF117541.D

Acq: 25 Oct 2019 17:33

Instrument :

BNA_F

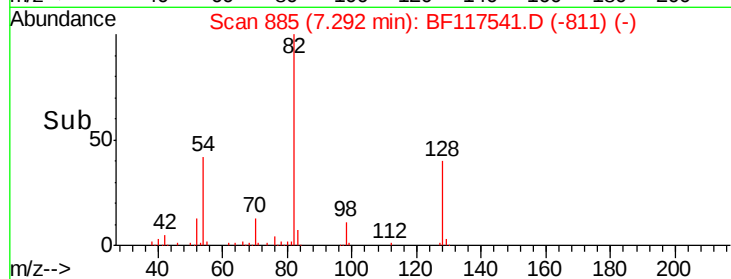
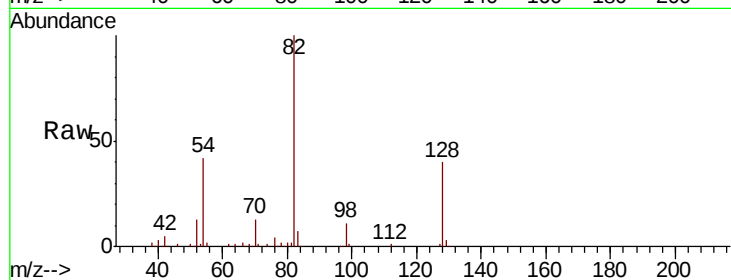
ClientSampleId :

182-08-(0-2)

Tot Ion: 70 Resp: 25632

Ion Ratio Lower Upper

70	100		
42	40.0	36.7	55.1
101	0.0	8.3	12.5#
130	1.6	18.1	27.1#



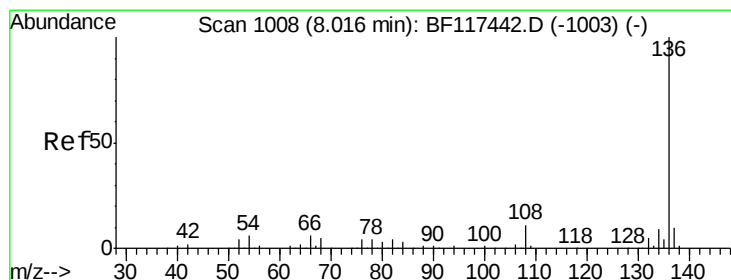
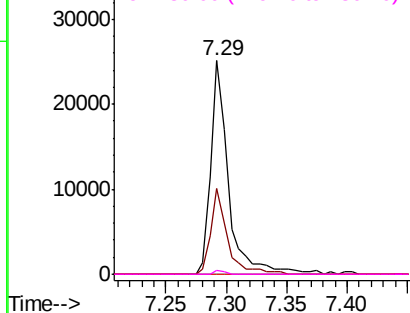
Abundance

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

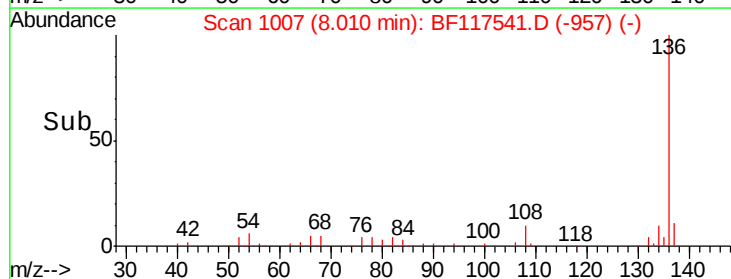
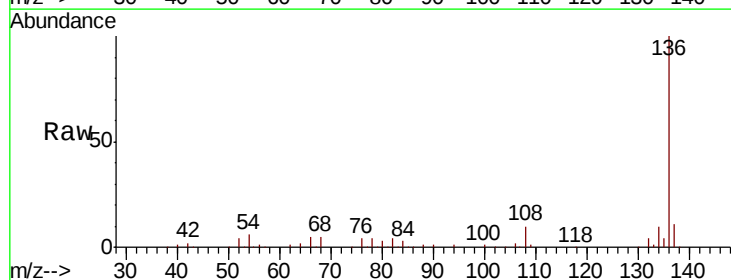
Lab File: BF117541.D

Acq: 25 Oct 2019 17:33

Tgt Ion: 136 Resp: 132242

Ion Ratio Lower Upper

136	100		
137	10.7	8.2	12.4
54	6.2	4.5	6.7
68	4.7	4.3	6.5



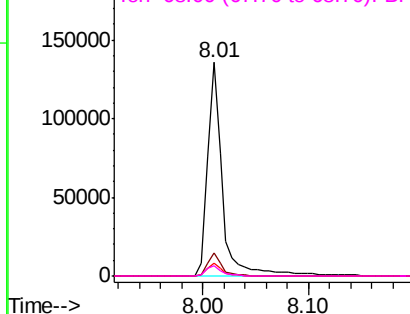
Abundance

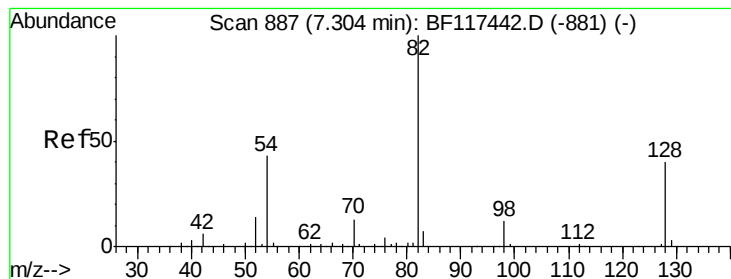
Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





#23

Nitrobenzene-d5

Concen: 72.553 ng

RT: 7.29 min Scan# 885

Delta R.T. -0.01 min

Lab File: BF117541.D

Acq: 25 Oct 2019 17:33

Instrument :

BNA_F

ClientSampleId :

182-08-(0-2)

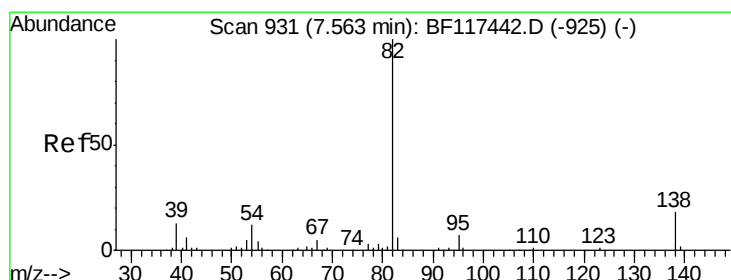
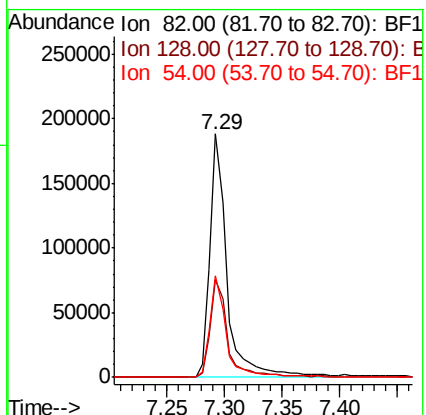
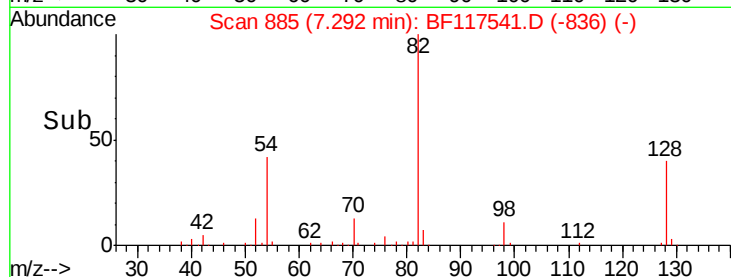
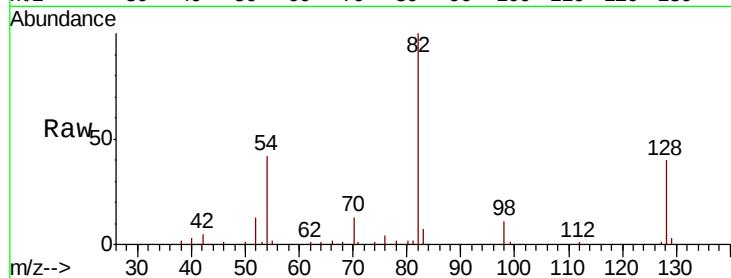
Tot Ion: 82 Resp: 194347

Ion Ratio Lower Upper

82 100

128 40.0 32.2 48.2

54 42.0 34.2 51.2



#25

Isophorone

Concen: 41.939 ng

RT: 7.29 min Scan# 885

Delta R.T. -0.27 min

Lab File: BF117541.D

Acq: 25 Oct 2019 17:33

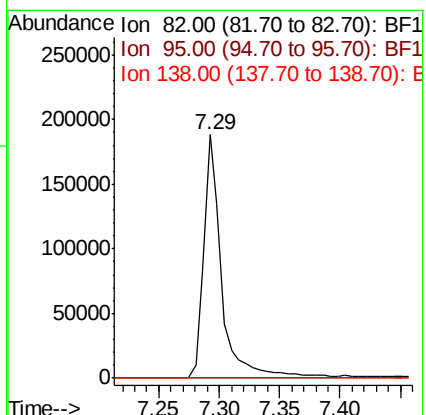
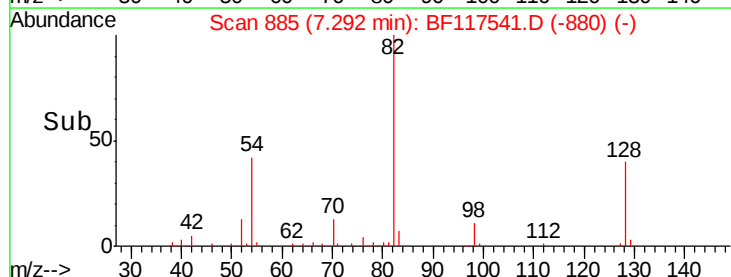
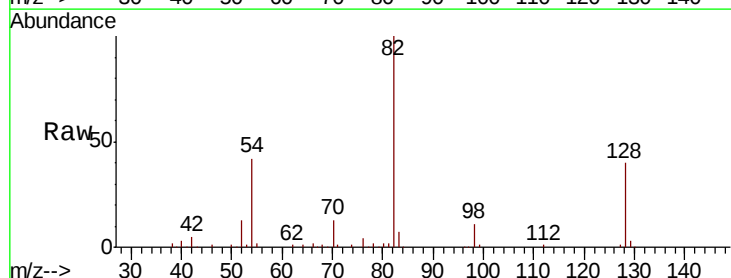
Tgt Ion: 82 Resp: 194345

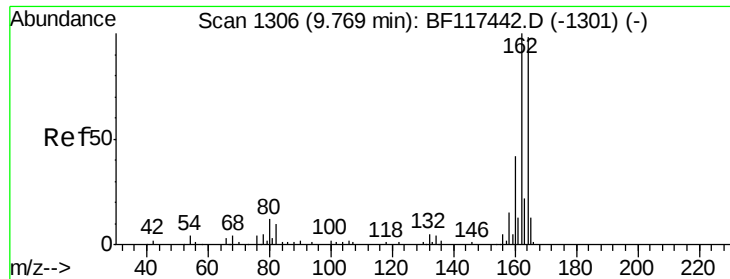
Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.0#

138 0.0 14.2 21.2#

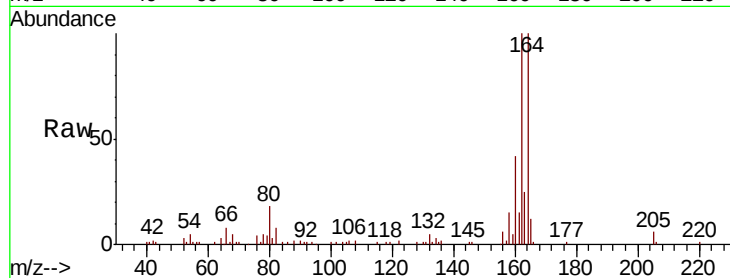




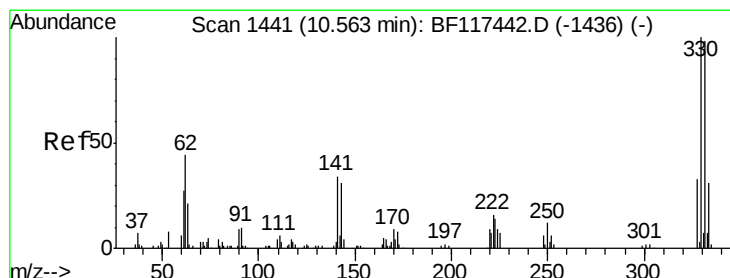
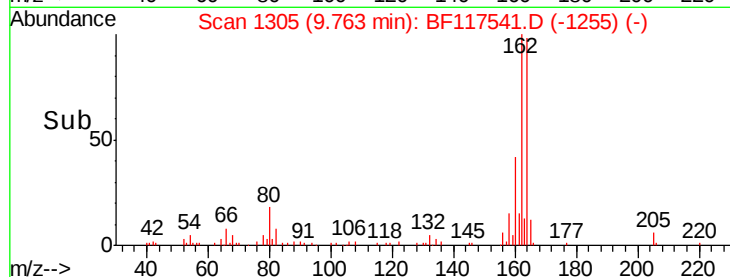
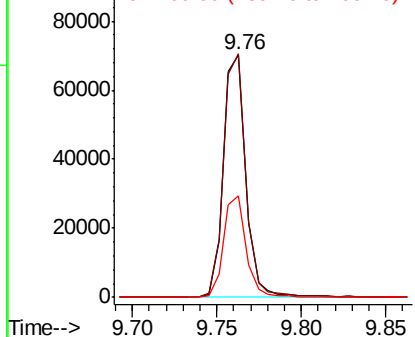
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF117541.D
Acq: 25 Oct 2019 17:33

Instrument :
BNA_F
ClientSampleId :
182-08-(0-2)

Tot Ion:164 Resp: 64831
Ion Ratio Lower Upper
164 100
162 100.2 81.8 122.6
160 42.0 34.4 51.6

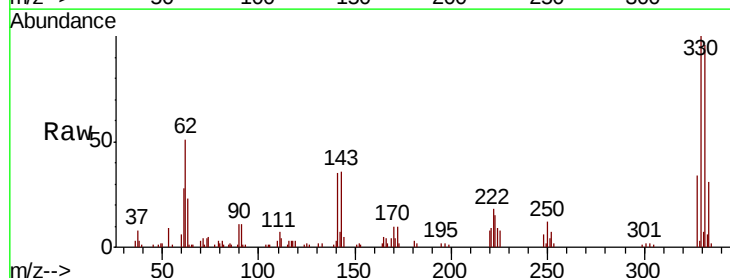


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

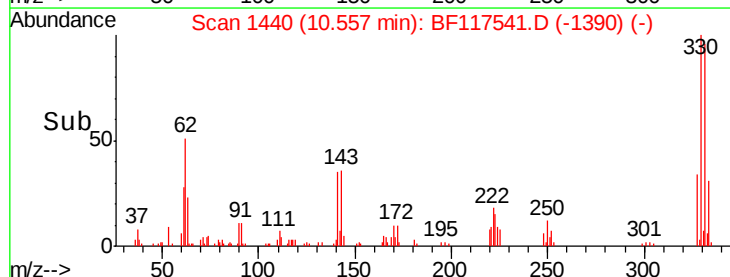
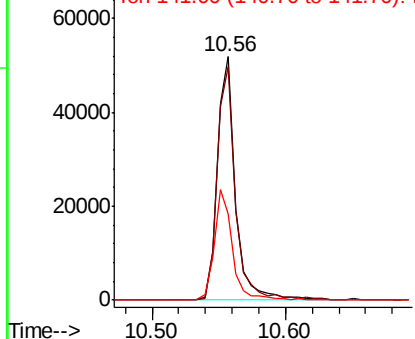


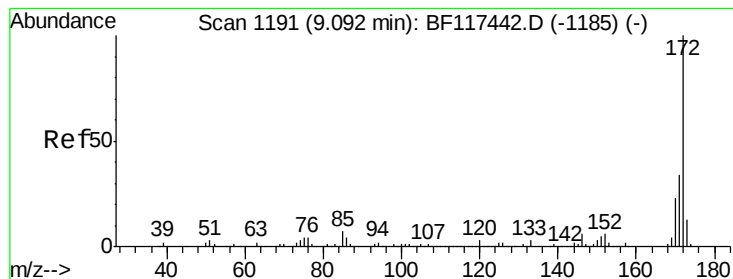
#42
2,4,6-Tribromophenol
Concen: 88.538 ng
RT: 10.56 min Scan# 1440
Delta R.T. -0.01 min
Lab File: BF117541.D
Acq: 25 Oct 2019 17:33

Tgt Ion:330 Resp: 49666
Ion Ratio Lower Upper
330 100
332 97.2 78.5 117.7
141 44.8 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: 64.396 ng

RT: 9.08 min Scan# 1189

Delta R.T. -0.01 min

Lab File: BF117541.D

Acq: 25 Oct 2019 17:33

Instrument :

BNA_F

ClientSampleId :

182-08-(0-2)

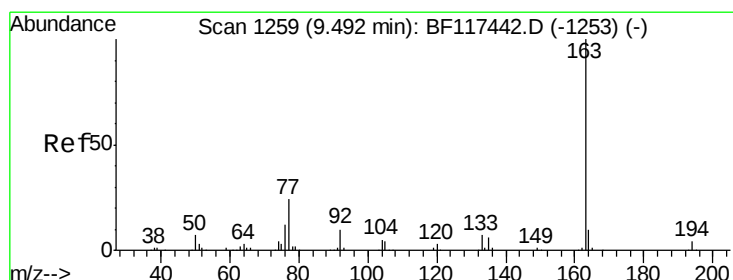
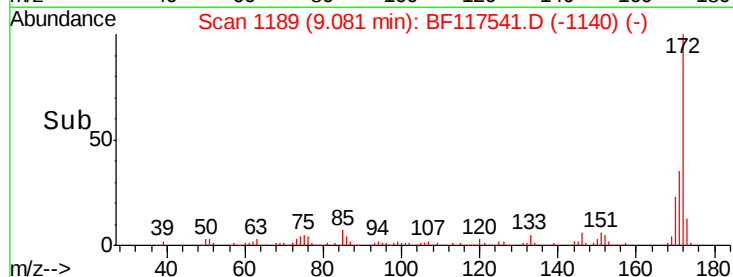
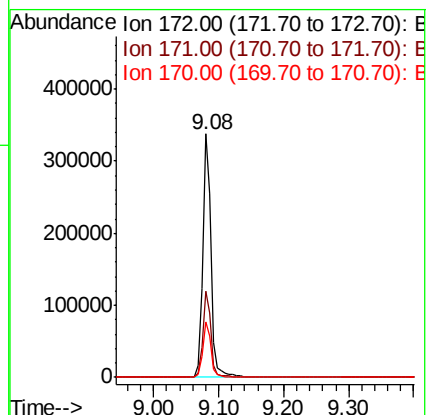
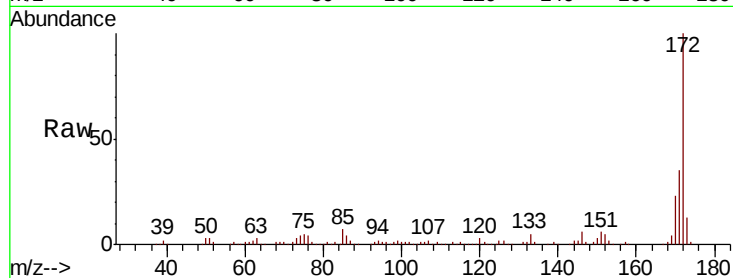
Tot Ion:172 Resp: 296301

Ion Ratio Lower Upper

172 100

171 35.3 27.5 41.3

170 22.9 18.6 27.8



#50

Dimethylphthalate

Concen: 13.294 ng

RT: 9.48 min Scan# 1257

Delta R.T. -0.01 min

Lab File: BF117541.D

Acq: 25 Oct 2019 17:33

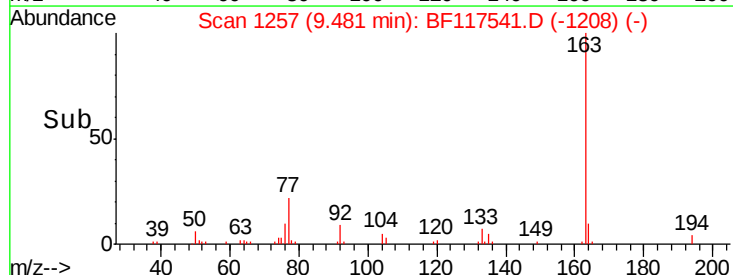
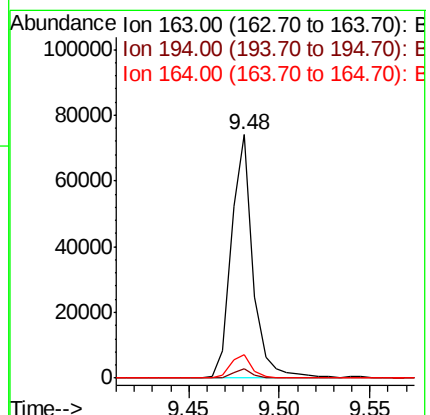
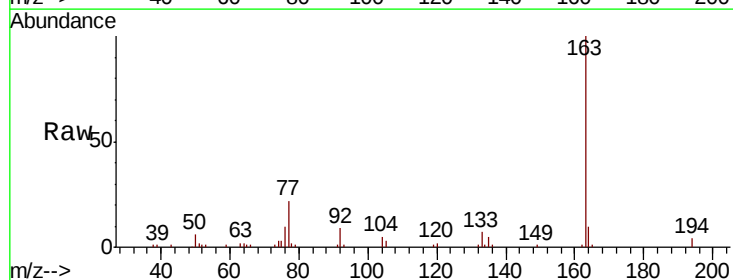
Tgt Ion:163 Resp: 61443

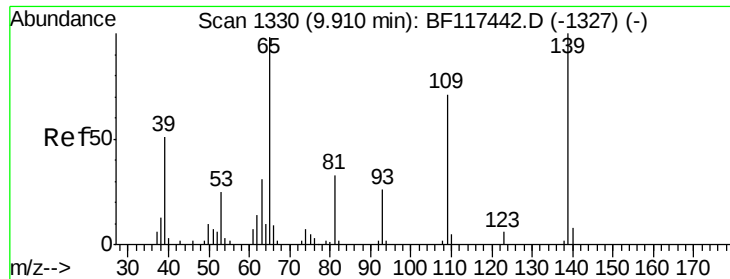
Ion Ratio Lower Upper

163 100

194 4.0 2.9 4.3

164 9.5 8.2 12.2

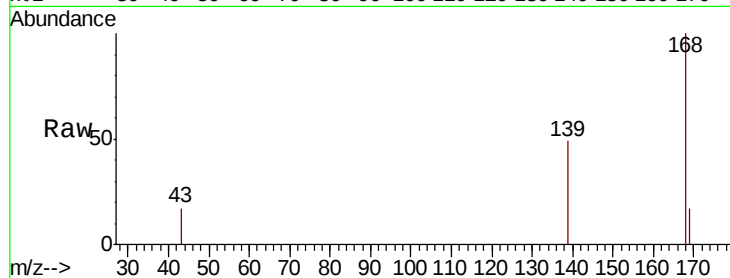




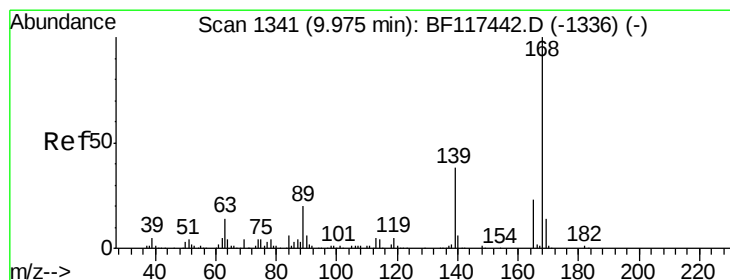
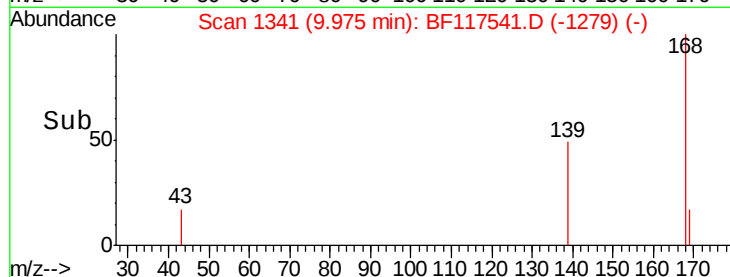
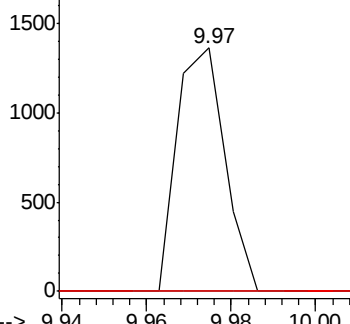
#56
4-Nitrophenol
Concen: 6.016 ng
RT: 9.97 min Scan# 1341
Delta R.T. 0.07 min
Lab File: BF117541.D
Acq: 25 Oct 2019 17:33

Instrument :
BNA_F
ClientSampleId :
182-08-(0-2)

Tot Ion:139 Resp: 1071
Ion Ratio Lower Upper
139 100
109 0.0 51.4 91.4#
65 0.0 79.4 119.4#

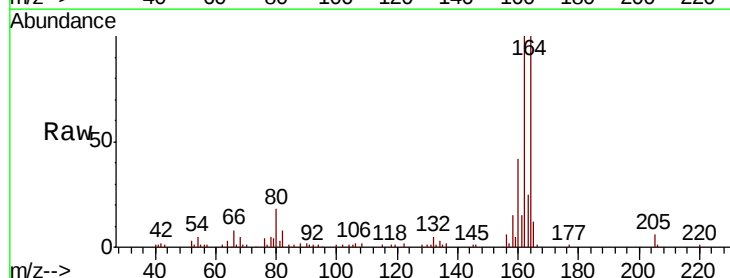


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

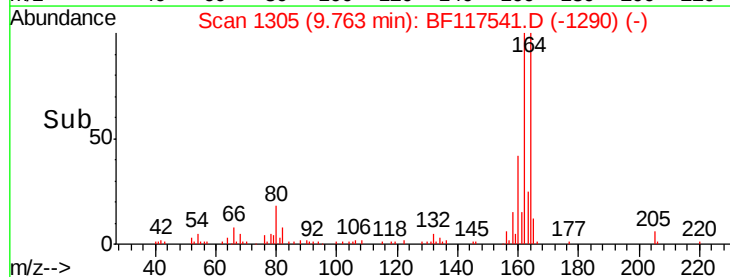
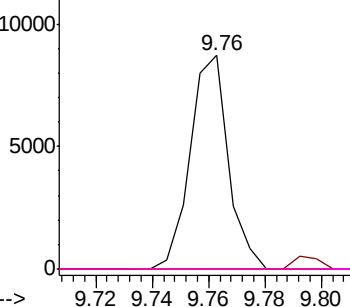


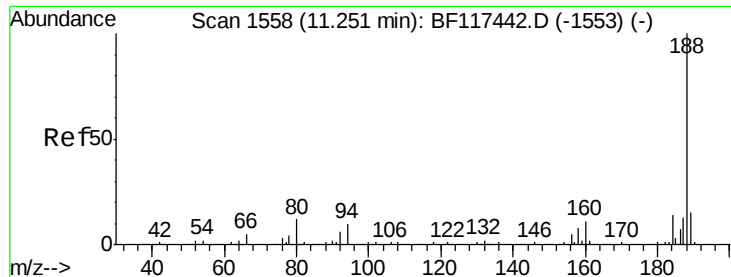
#57
2,4-Dinitrotoluene
Concen: 6.348 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.21 min
Lab File: BF117541.D
Acq: 25 Oct 2019 17:33

Tgt Ion:165 Resp: 8140
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# 1557

Delta R.T. -0.01 min

Lab File: BF117541.D

Acq: 25 Oct 2019 17:33

Instrument :

BNA_F

ClientSampleId :

182-08-(0-2)

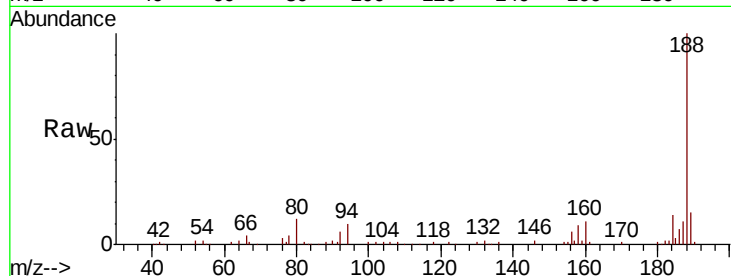
Tot Ion:188 Resp: 90095

Ion Ratio Lower Upper

188 100

94 10.0 8.0 12.0

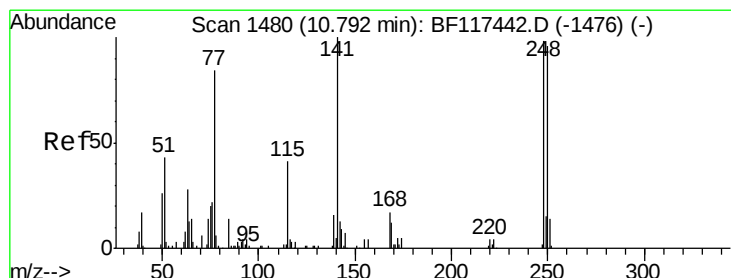
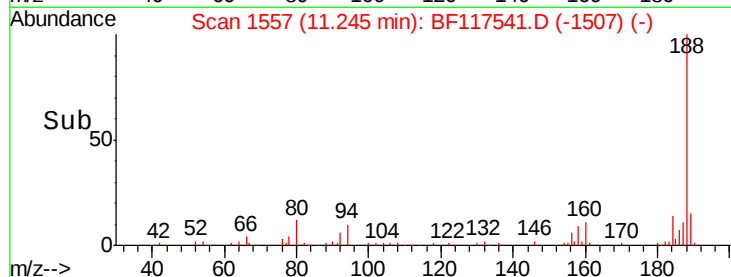
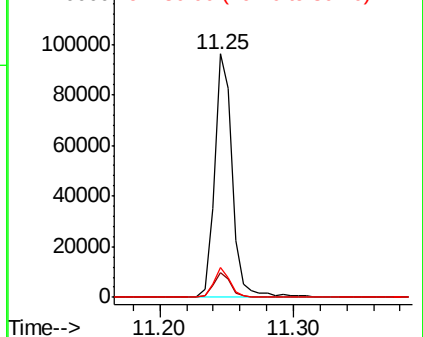
80 12.2 9.5 14.3



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



#67

4-Bromophenyl-phenylether

Concen: 3.171 ng

RT: 10.56 min Scan# 1440

Delta R.T. -0.24 min

Lab File: BF117541.D

Acq: 25 Oct 2019 17:33

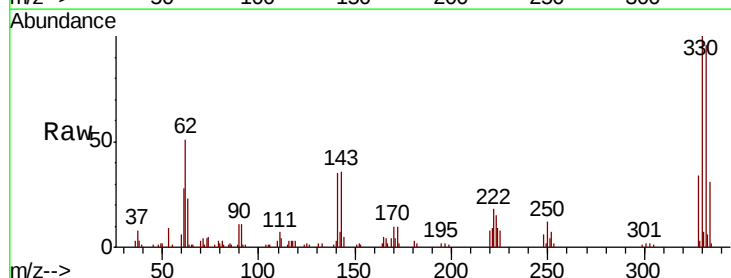
Tgt Ion:248 Resp: 3077

Ion Ratio Lower Upper

248 100

250 187.3 78.0 117.0#

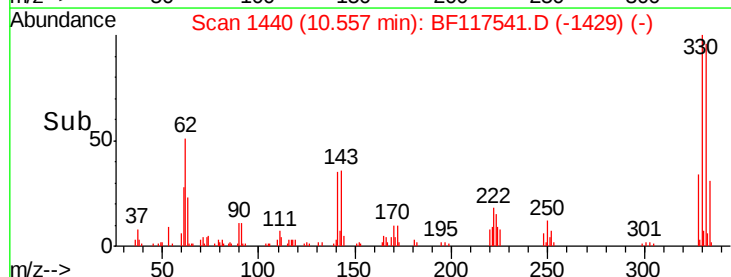
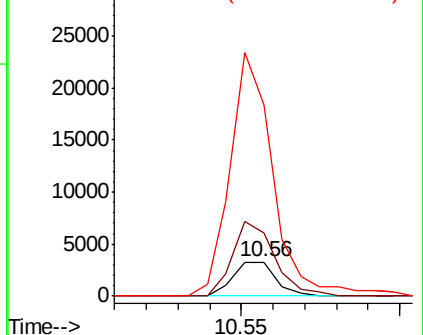
141 562.3 81.7 122.5#

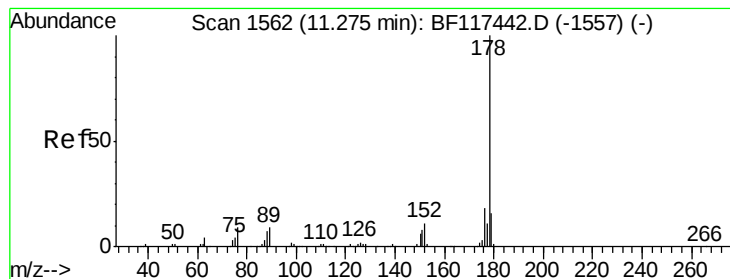


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#71

Phenanthrene

Concen: 13.512 ng

RT: 11.27 min Scan# 1561

Delta R.T. -0.01 min

Lab File: BF117541.D

Acq: 25 Oct 2019 17:33

Instrument :

BNA_F

ClientSampleId :

182-08-(0-2)

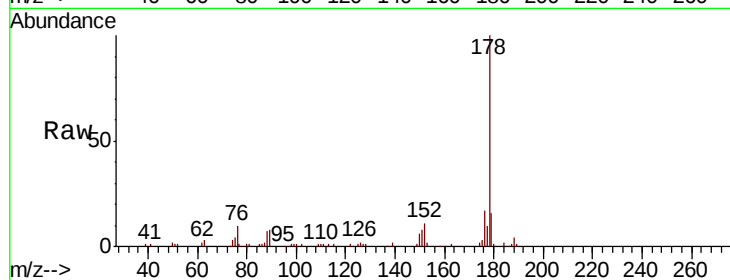
Tot Ion:178 Resp: 70690

Ion Ratio Lower Upper

178 100

176 17.4 14.6 22.0

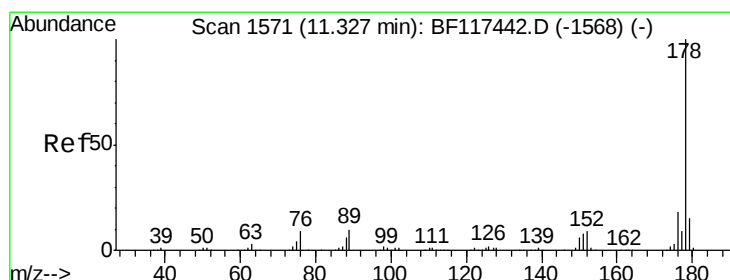
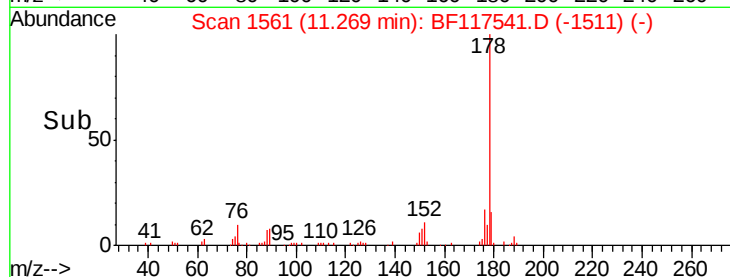
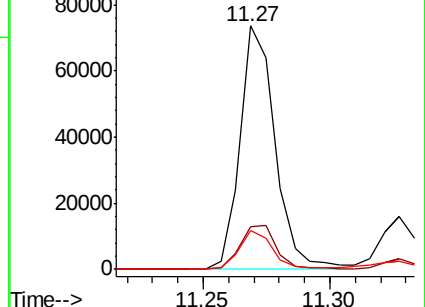
179 16.0 12.6 19.0



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: 2.915 ng

RT: 11.33 min Scan# 1571

Delta R.T. -0.00 min

Lab File: BF117541.D

Acq: 25 Oct 2019 17:33

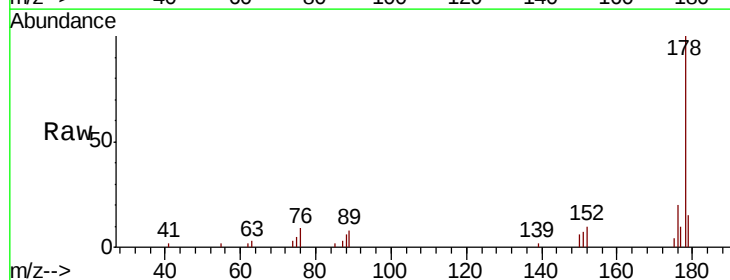
Tgt Ion:178 Resp: 15648

Ion Ratio Lower Upper

178 100

176 20.5 14.7 22.1

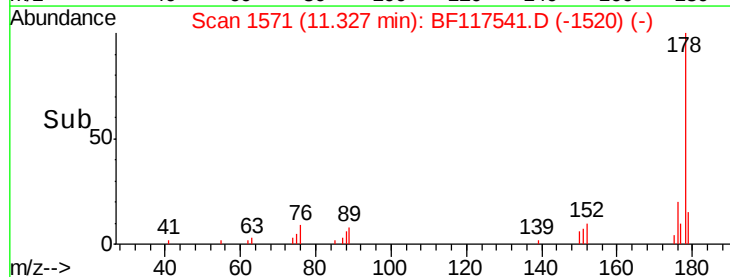
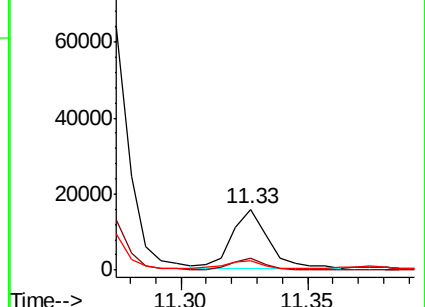
179 14.9 12.2 18.2

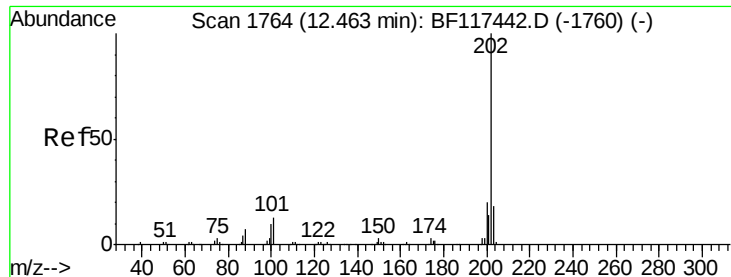


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 20.443 ng

RT: 12.46 min Scan# 1764

Delta R.T. 0.00 min

Lab File: BF117541.D

Acq: 25 Oct 2019 17:33

Instrument :

BNA_F

ClientSampleId :

182-08-(0-2)

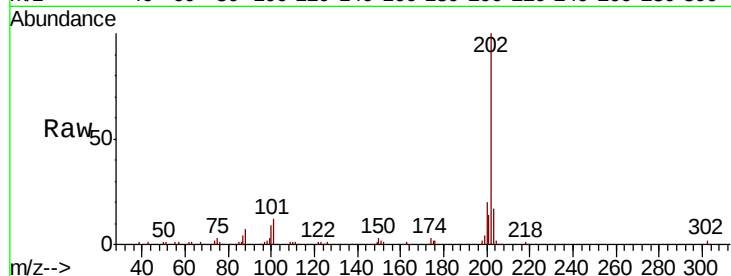
Tot Ion:202 Resp: 107060

Ion Ratio Lower Upper

202 100

101 12.3 0.0 32.7

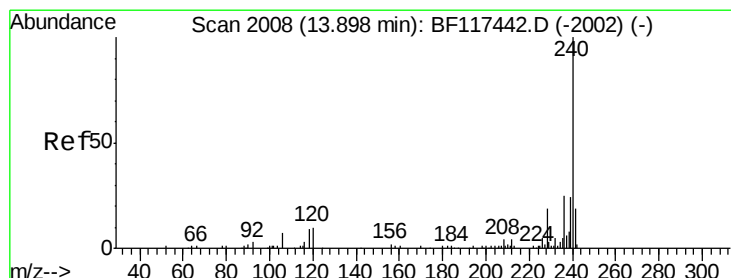
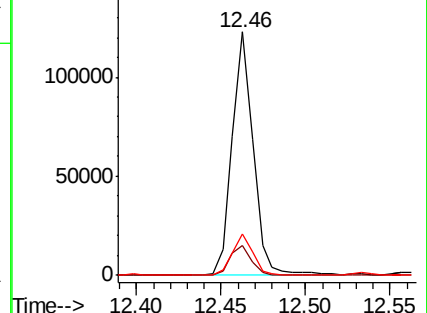
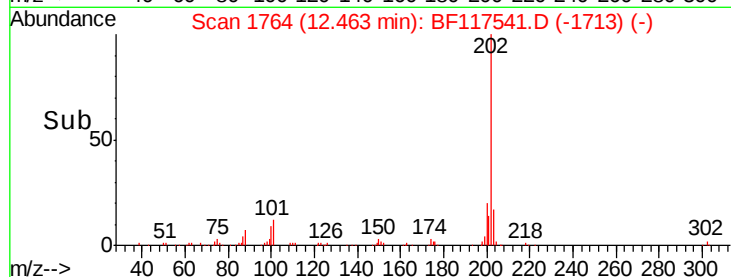
203 17.2 0.0 37.6



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: 13.89 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF117541.D

Acq: 25 Oct 2019 17:33

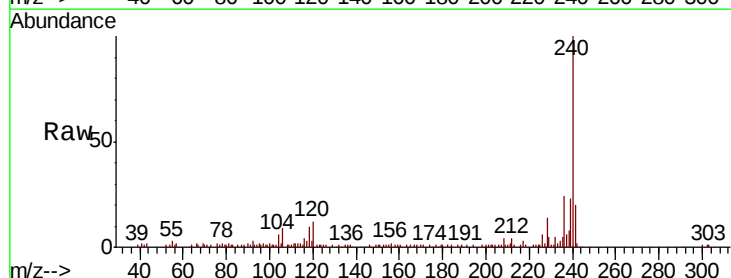
Tgt Ion:240 Resp: 64549

Ion Ratio Lower Upper

240 100

120 12.3 8.4 12.6

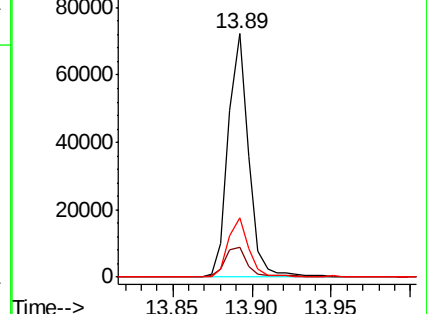
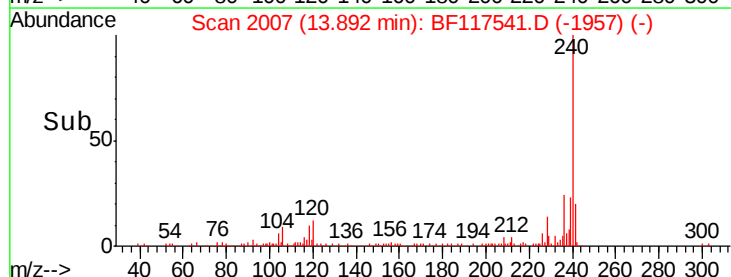
236 24.2 20.0 30.0

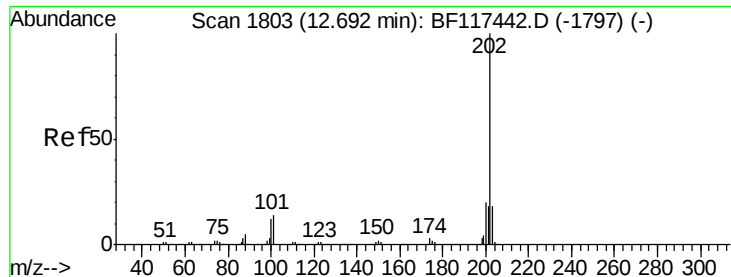


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 16.555 ng

RT: 12.69 min Scan# 1803

Delta R.T. -0.00 min

Lab File: BF117541.D

Acq: 25 Oct 2019 17:33

Instrument :

BNA_F

ClientSampleId :

182-08-(0-2)

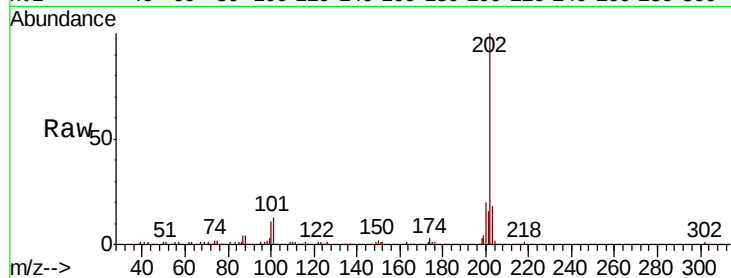
Tot Ion:202 Resp: 91790

Ion Ratio Lower Upper

202 100

200 19.6 16.2 24.2

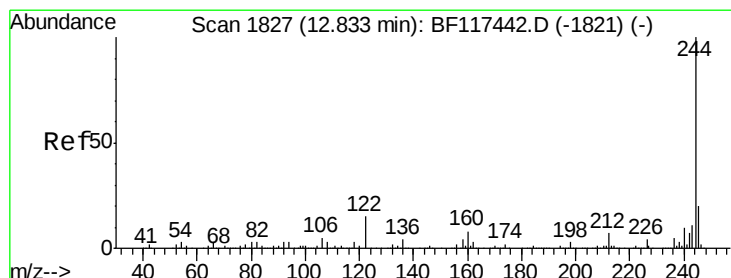
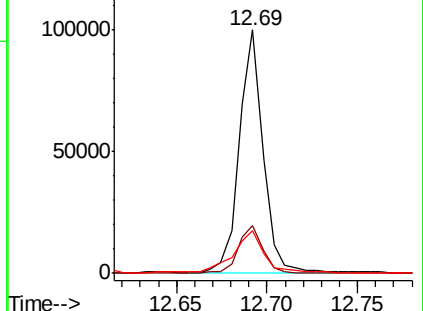
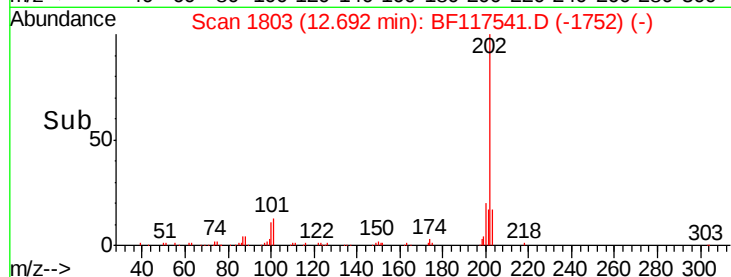
203 17.6 14.0 21.0



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: 50.507 ng

RT: 12.83 min Scan# 1826

Delta R.T. -0.01 min

Lab File: BF117541.D

Acq: 25 Oct 2019 17:33

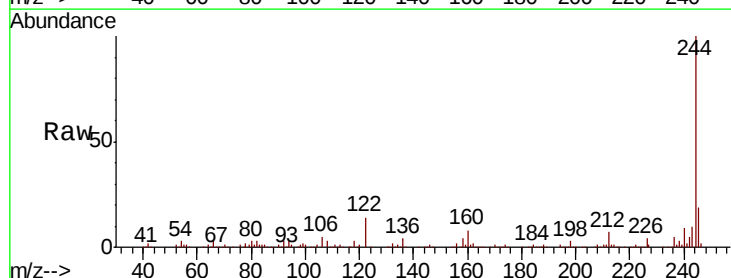
Tgt Ion:244 Resp: 199876

Ion Ratio Lower Upper

244 100

212 7.1 5.8 8.6

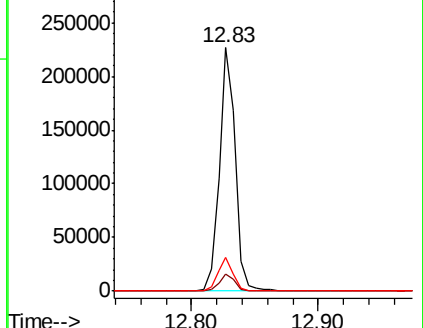
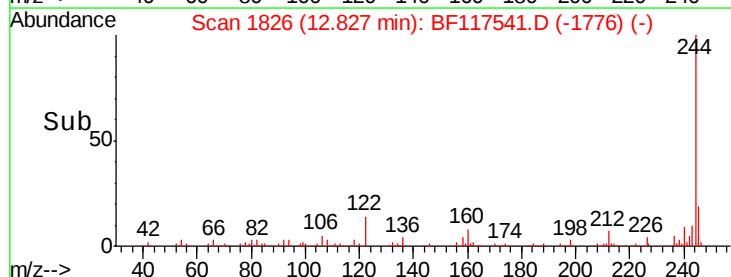
122 13.7 11.8 17.8

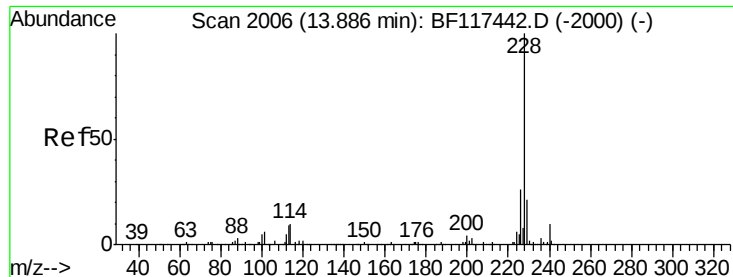


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 10.566 ng

RT: 13.88 min Scan# 2005

Delta R.T. -0.01 min

Lab File: BF117541.D

Acq: 25 Oct 2019 17:33

Instrument :

BNA_F

ClientSampleId :

182-08-(0-2)

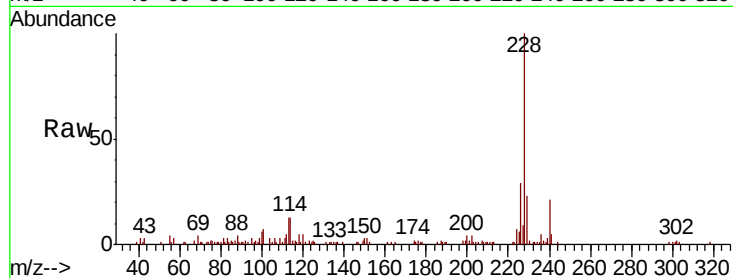
Tot Ion:228 Resp: 46005

Ion Ratio Lower Upper

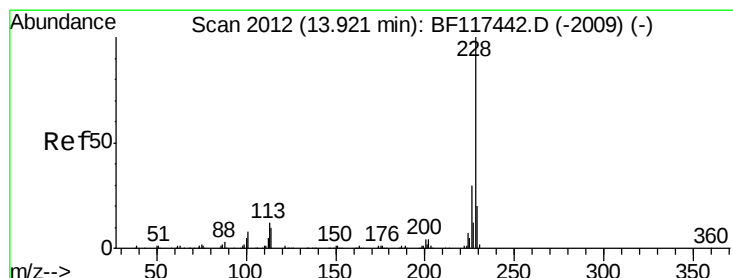
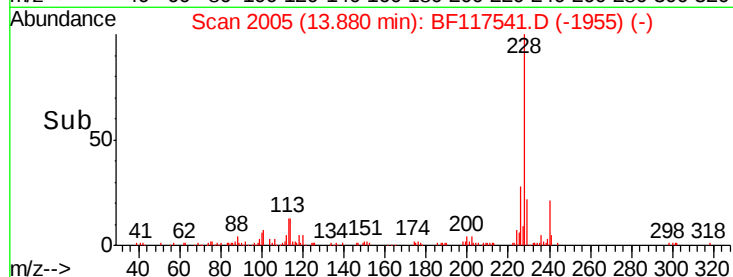
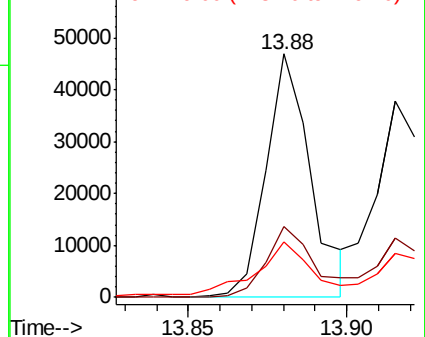
228 100

226 29.0 21.0 31.4

229 23.0 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: 9.583 ng

RT: 13.92 min Scan# 2011

Delta R.T. -0.01 min

Lab File: BF117541.D

Acq: 25 Oct 2019 17:33

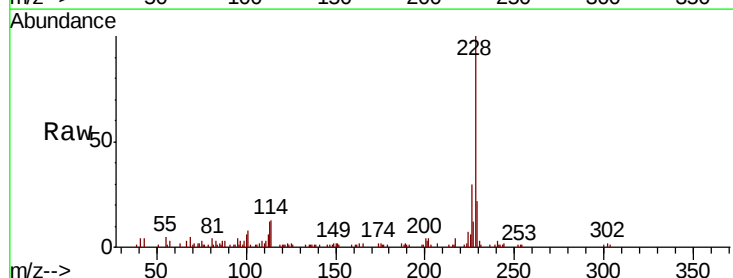
Tgt Ion:228 Resp: 40895

Ion Ratio Lower Upper

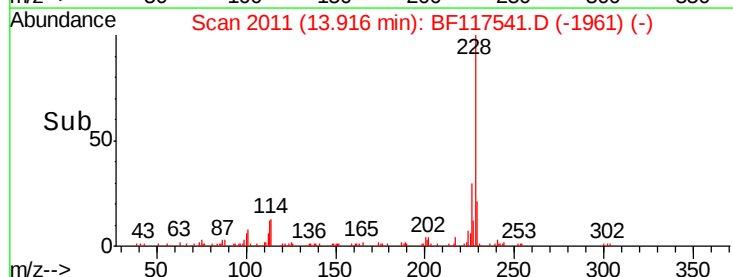
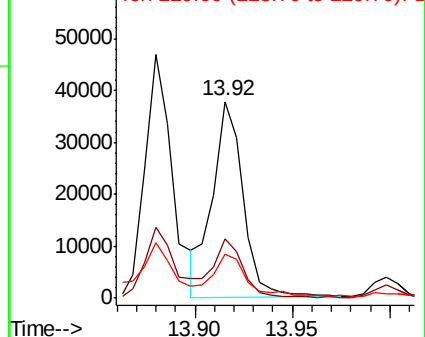
228 100

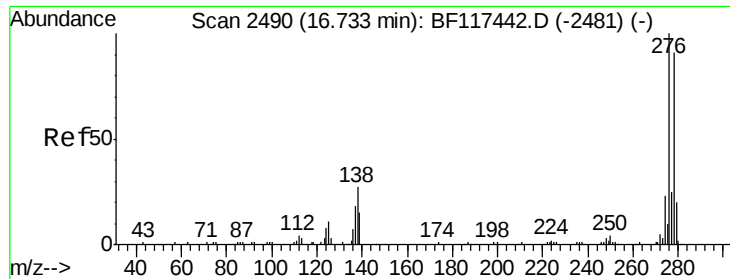
226 30.3 23.9 35.9

229 22.3 15.8 23.6



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

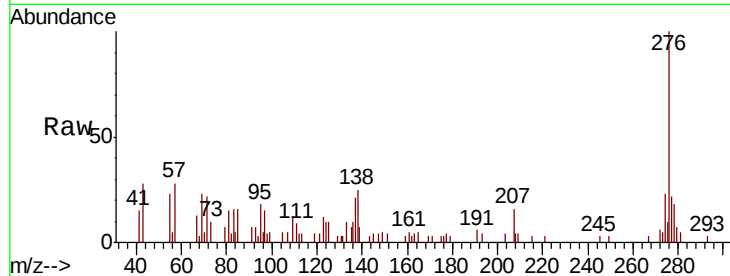




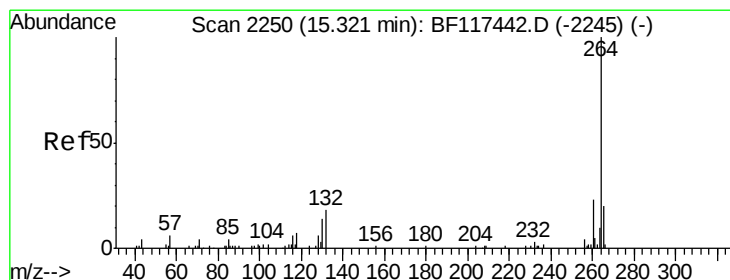
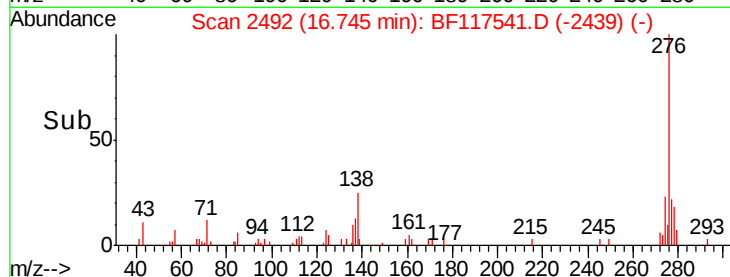
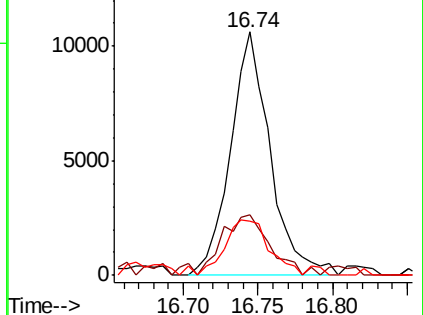
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 6.193 ng
 RT: 16.74 min Scan# 2492
 Delta R.T. 0.01 min
 Lab File: BF117541.D
 Acq: 25 Oct 2019 17:33

Instrument :
 BNA_F
 ClientSampleId :
 182-08-(0-2)

Tot Ion	Ratio	Lower	Upper
276	100		
138	29.7	21.8	32.8
277	25.8	20.0	30.0

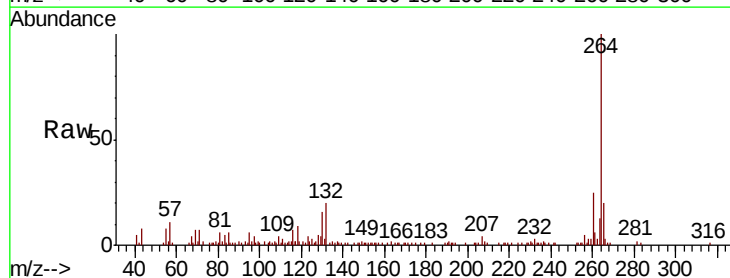


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

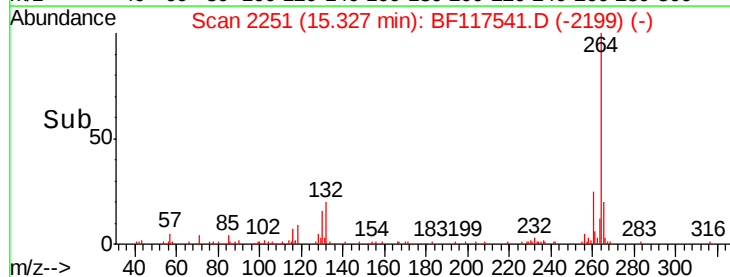
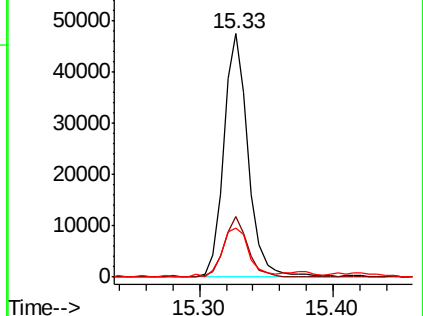


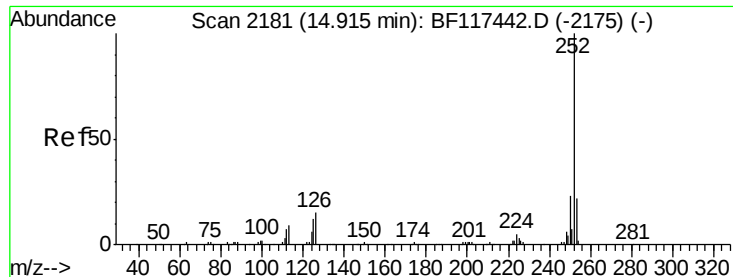
#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.33 min Scan# 2251
 Delta R.T. 0.01 min
 Lab File: BF117541.D
 Acq: 25 Oct 2019 17:33

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.7	18.4	27.6
265	20.1	16.1	24.1



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





#88

Benzo(b)fluoranthene

Concen: 19.176 ng

RT: 14.92 min Scan# 2182

Delta R.T. 0.01 min

Lab File: BF117541.D

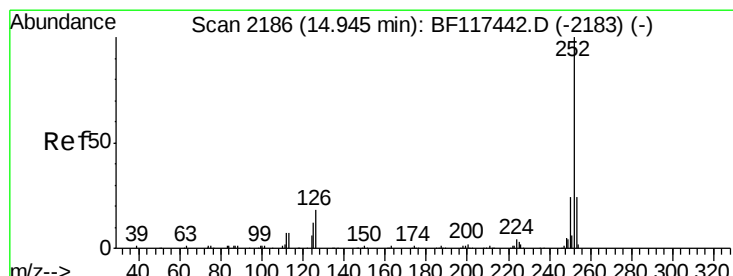
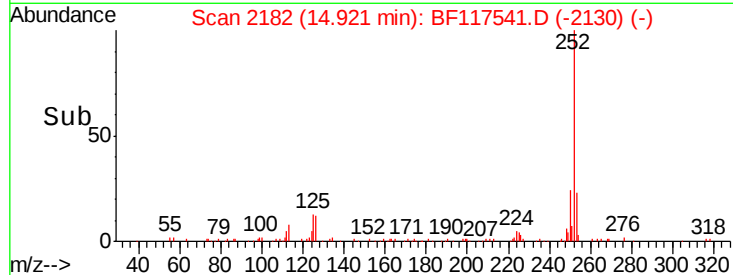
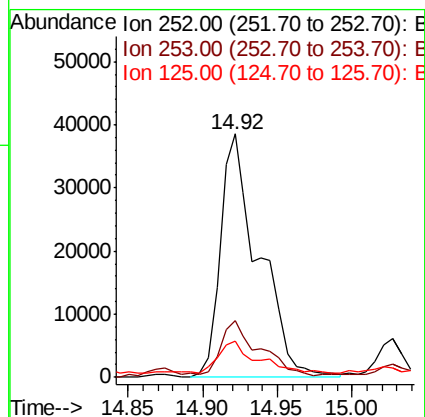
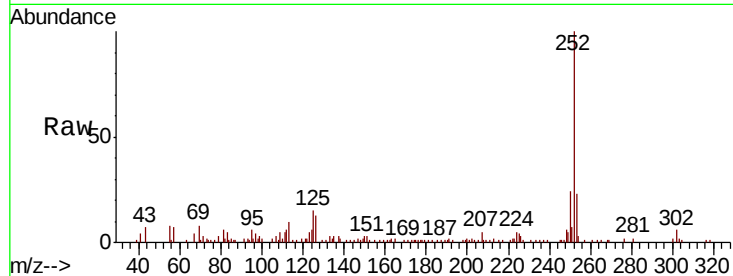
Acq: 25 Oct 2019 17:33

Instrument :
BNA_F

ClientSampleId :
182-08-(0-2)

Tot Ion:252 Resp: 68986

Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.8	26.6
125	14.7	9.9	14.9



#89

Benzo(k)fluoranthene

Concen: 18.709 ng

RT: 14.92 min Scan# 2182

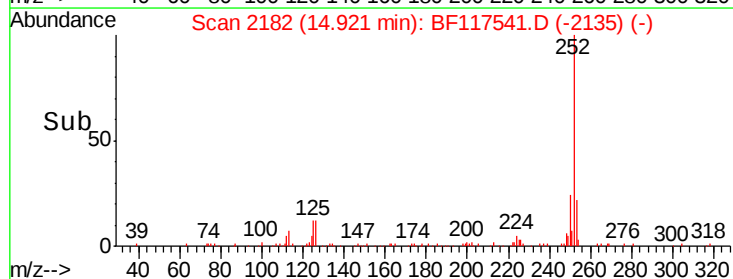
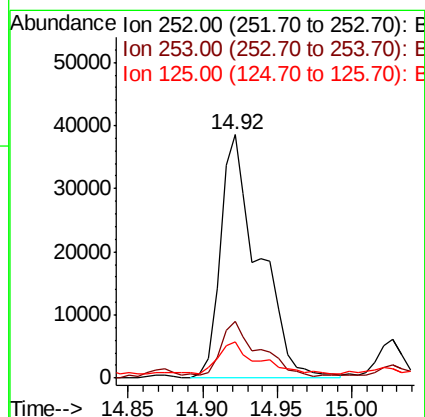
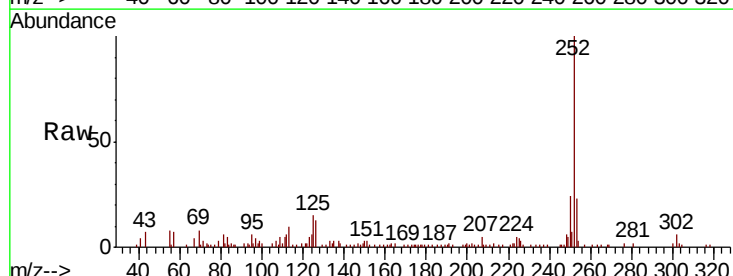
Delta R.T. -0.02 min

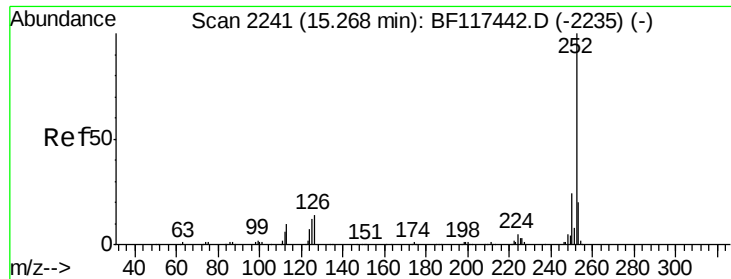
Lab File: BF117541.D

Acq: 25 Oct 2019 17:33

Tgt Ion:252 Resp: 68986

Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.0	27.0
125	14.7	8.9	13.3#

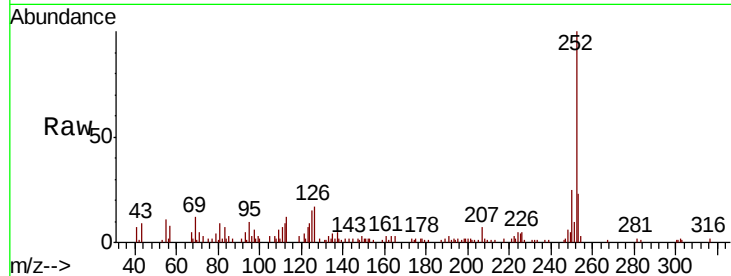




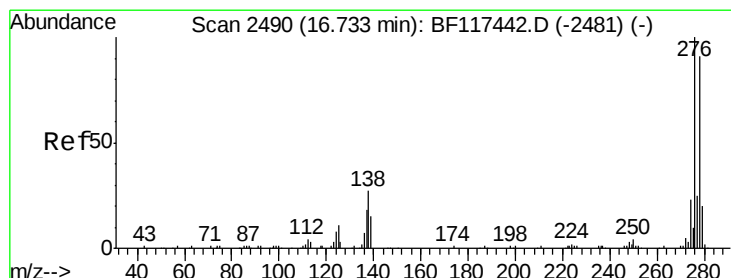
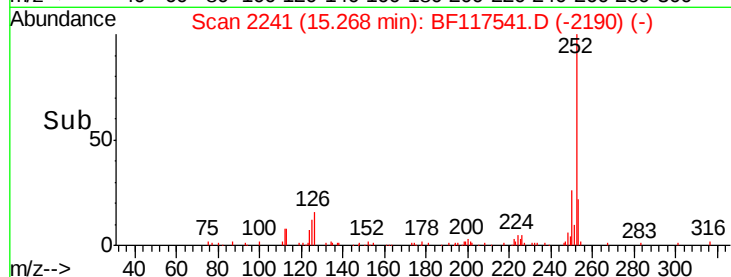
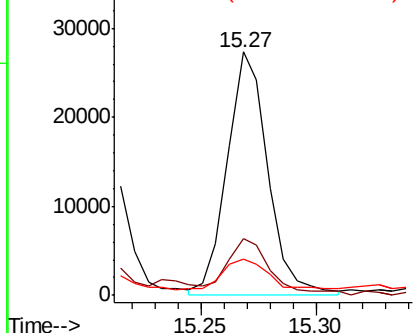
#90
Benzo(a)pyrene
Concen: 10.292 ng
RT: 15.27 min Scan# 2241
Delta R.T. 0.00 min
Lab File: BF117541.D
Acq: 25 Oct 2019 17:33

Instrument :
BNA_F
ClientSampleId :
182-08-(0-2)

Tot Ion:252 Resp: 33665
Ion Ratio Lower Upper
252 100
253 23.5 16.3 24.5
125 14.8 9.2 13.8#

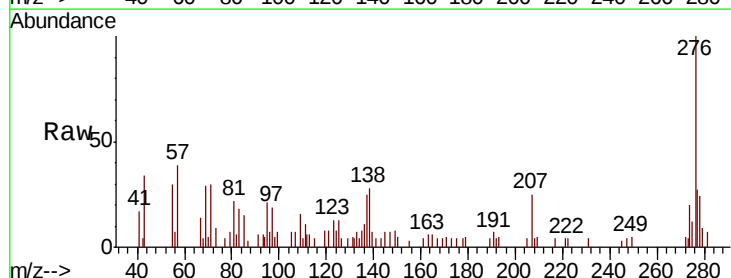


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

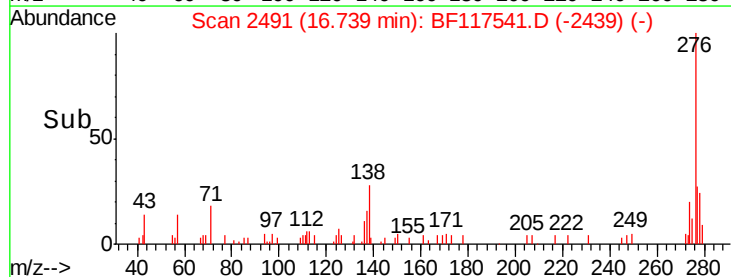
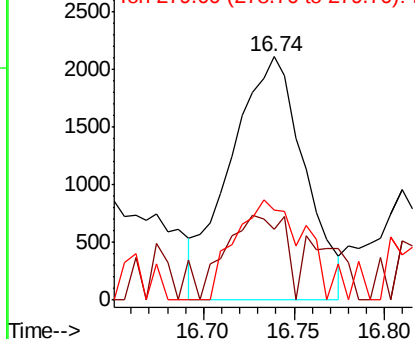


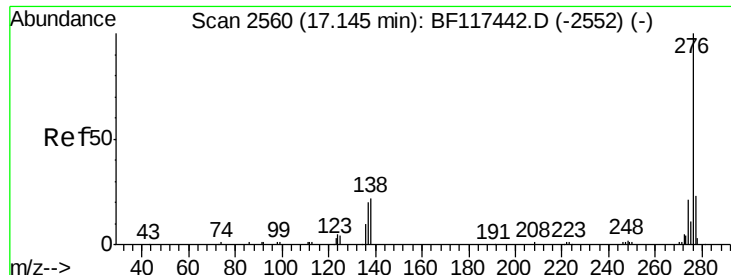
#91
Dibenzo(a,h)anthracene
Concen: 2.120 ng
RT: 16.74 min Scan# 2491
Delta R.T. 0.01 min
Lab File: BF117541.D
Acq: 25 Oct 2019 17:33

Tgt Ion:278 Resp: 5996
Ion Ratio Lower Upper
278 100
139 29.0 13.4 20.0#
279 37.2 17.8 26.6#



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(a,h,i)perylene
 Concen: 6.460 ng
 RT: 17.17 min Scan# 2564
 Delta R.T. 0.02 min
 Lab File: BF117541.D
 Acq: 25 Oct 2019 17:33

Instrument :
 BNA_F
 ClientSampleId :
 182-08-(0-2)

Tot Ion	Ratio	Lower	Upper
276	100		
277	28.3	18.4	27.6#
138	30.5	17.8	26.6#

