

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103119\
 Data File : BF117669.D
 Acq On : 31 Oct 2019 20:13
 Operator : JU
 Sample : K5576-14DL 25X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Nov 01 01:23:18 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	32788	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	164928	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	82922	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	127890	20.00	ng	0.00
76) Chrysene-d12	13.90	240	69883	20.00	ng	0.00
87) Perylene-d12	15.34	264	76810	20.00	ng	0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	1636	0.74	ng	0.08
7) Phenol-d6	6.46	99	3952	1.34	ng	0.08
23) Nitrobenzene-d5	7.35	82	4698	1.41	ng	0.05
42) 2,4,6-Tribromophenol	10.57	330	1712	2.39	ng	0.01
45) 2-Fluorobiphenyl	9.09	172	13060	2.22	ng	0.00
79) Terphenyl-d14	12.83	244	11693	2.73	ng	0.00

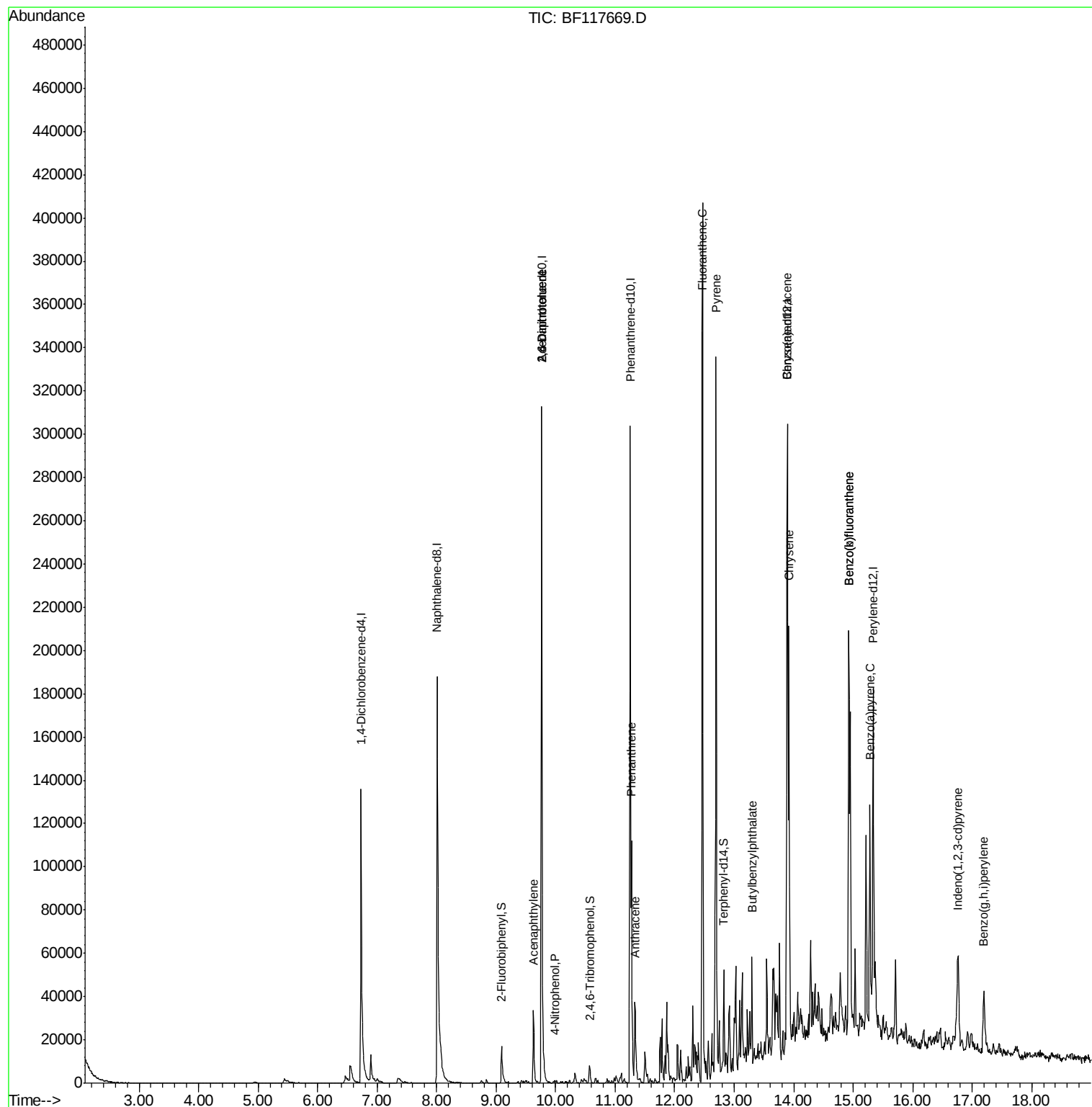
Target Compounds				Qvalue		
49) Acenaphthylene	9.63	152	21219	2.791	ng	99
51) 2,6-Dinitrotoluene	9.76	165	10771	8.732	ng	# 22
56) 4-Nitrophenol	9.99	139	414	4.700	ng	# 6
57) 2,4-Dinitrotoluene	9.76	165	10771	6.567	ng	# 12
71) Phenanthrene	11.27	178	43958	5.919	ng	99
72) Anthracene	11.33	178	23054	3.026	ng	99
75) Fluoranthene	12.47	202	171421	23.059	ng	98
77) Benzidine	12.83	184	113	Below Cal	#	67
78) Pyrene	12.70	202	143096	23.839	ng	99
80) Butylbenzylphthalate	13.30	149	9907	3.317	ng	98
81) Benzo(a)anthracene	13.89	228	77269	16.392	ng	98
83) Chrysene	13.92	228	75037	16.242	ng	98
86) Indeno(1,2,3-cd)pyrene	16.76	276	31798	9.219	ng	97
88) Benzo(b)fluoranthene	14.93	252	118487	26.123	ng	# 97
89) Benzo(k)fluoranthene	14.93	252	118487	25.487	ng	# 96
90) Benzo(a)pyrene	15.28	252	49491	12.001	ng	# 94
92) Benzo(a,h,i)perylene	17.20	276	25609	7.590	ng	94

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

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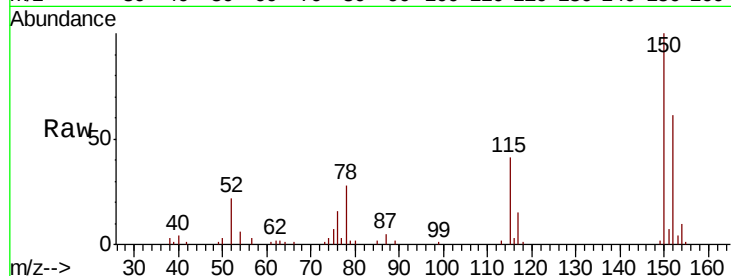


#1

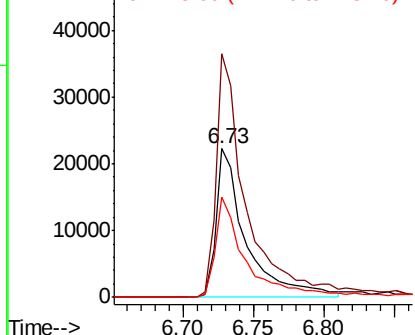
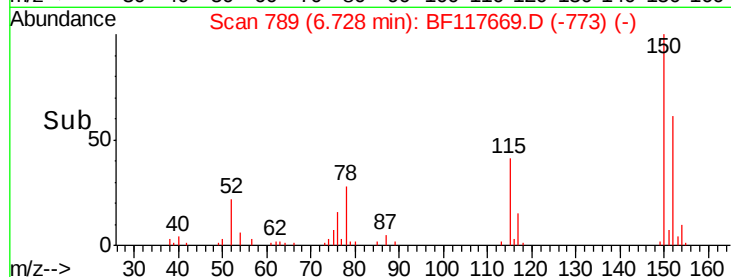
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF117669.D
Acq: 31 Oct 2019 20:13

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 32788
Ion Ratio Lower Upper
152 100
150 164.0 126.8 190.2
115 67.4 51.6 77.4



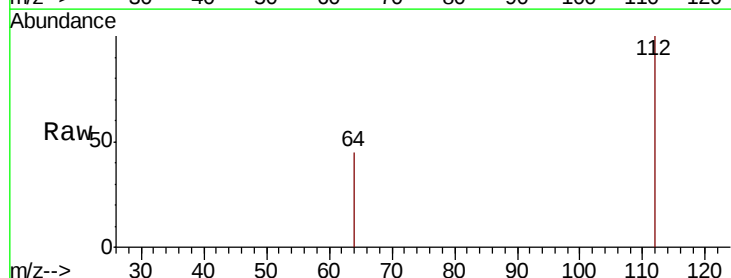
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



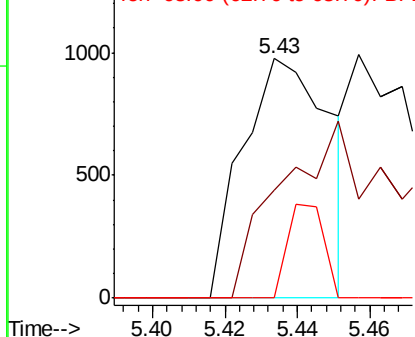
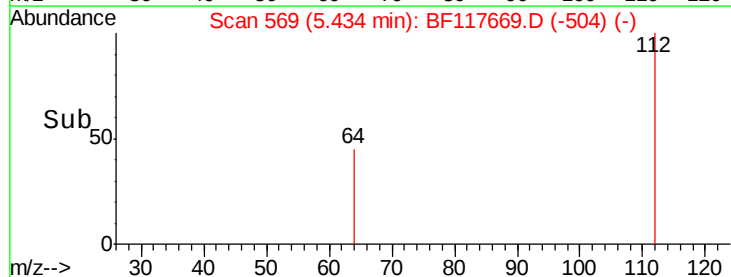
#5

2-Fluorophenol
Concen: 0.742 ng
RT: 5.43 min Scan# 569
Delta R.T. 0.08 min
Lab File: BF117669.D
Acq: 31 Oct 2019 20:13

Tgt Ion:112 Resp: 1636
Ion Ratio Lower Upper
112 100
64 44.9 44.1 66.1
63 0.0 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: 1.335 ng

RT: 6.46 min Scan# 744

Delta R.T. 0.08 min

Lab File: BF117669.D

Acq: 31 Oct 2019 20:13

Instrument :

BNA_F

ClientSampled :

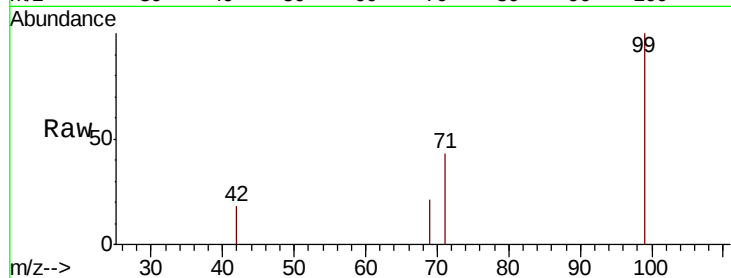
Tot Ion: 99 Resp: 3952

Ion Ratio Lower Upper

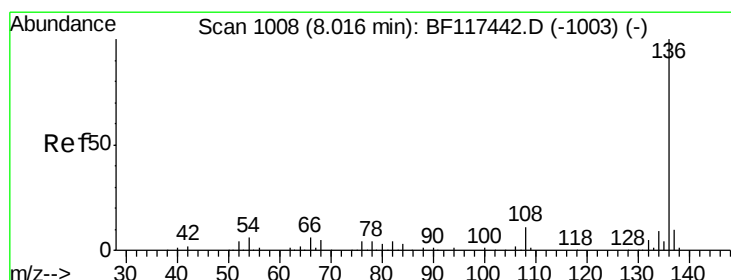
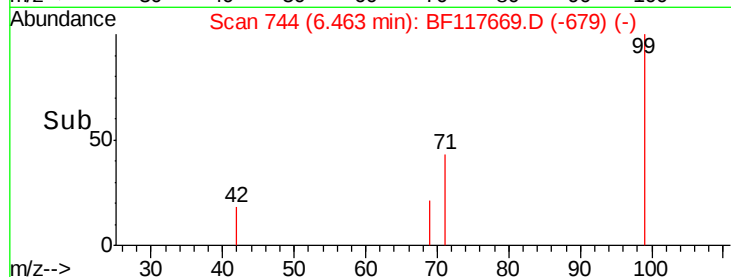
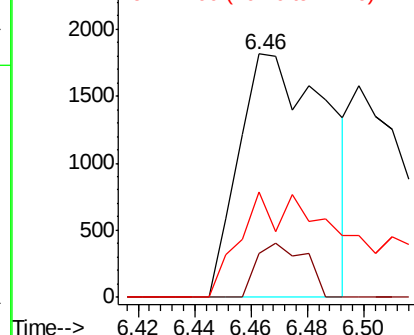
99 100

42 18.2 12.8 19.2

71 43.4 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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.01 min Scan# 1007

Delta R.T. -0.01 min

Lab File: BF117669.D

Acq: 31 Oct 2019 20:13

Tgt Ion: 136 Resp: 164928

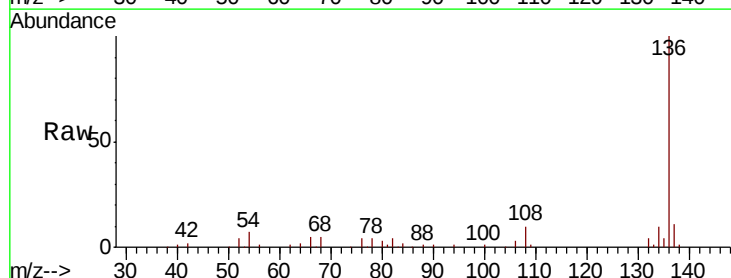
Ion Ratio Lower Upper

136 100

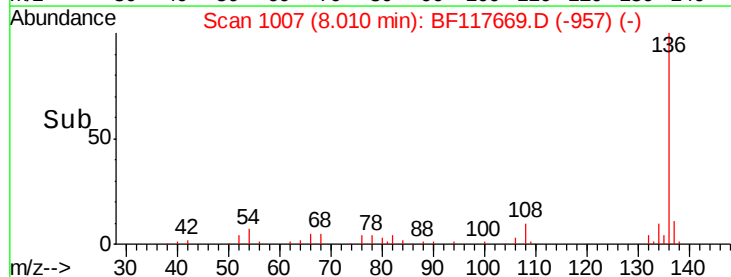
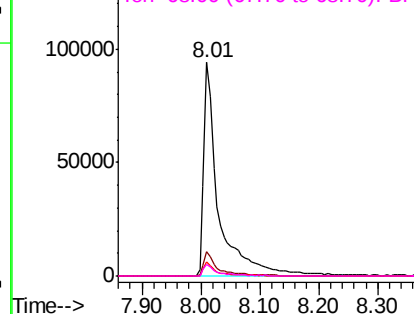
137 11.3 8.2 12.4

54 6.8 4.5 6.7#

68 5.4 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

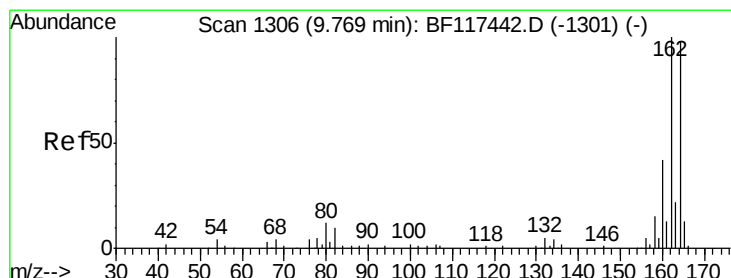
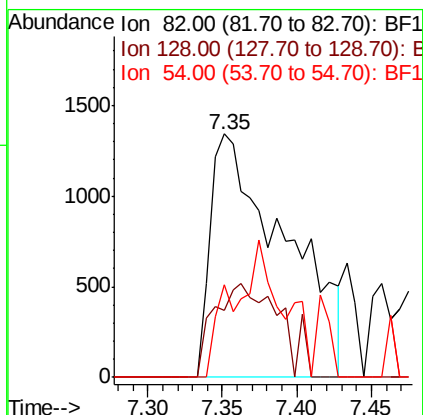
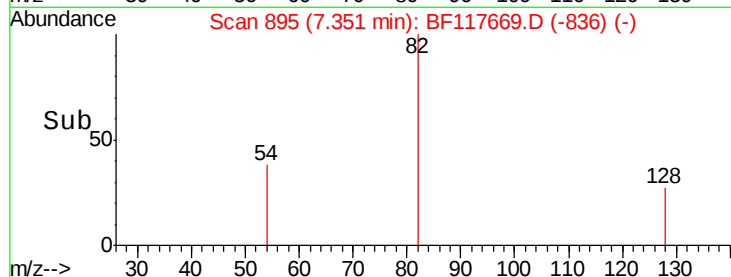
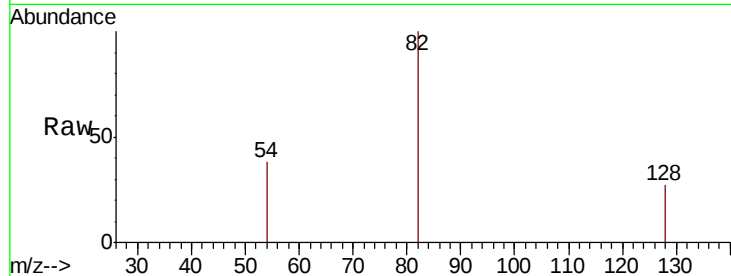




#23
Nitrobenzene-d5
Concen: 1.406 ng
RT: 7.35 min Scan# 895
Delta R.T. 0.05 min
Lab File: BF117669.D
Acq: 31 Oct 2019 20:13

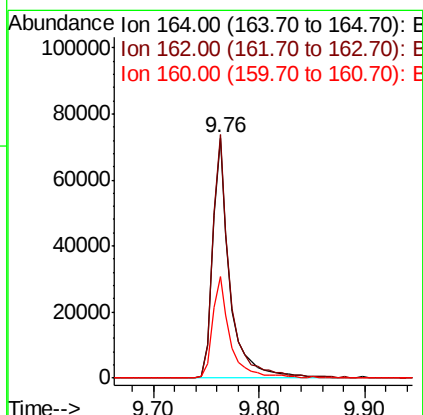
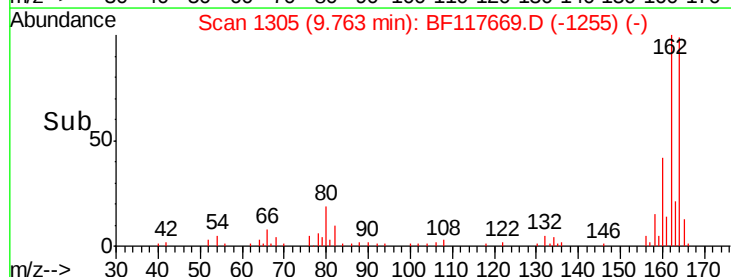
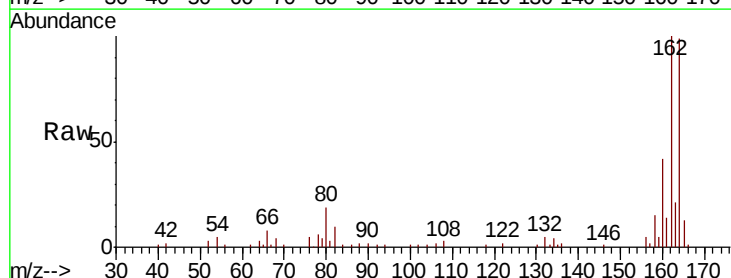
Instrument :
BNA_F
ClientSampleId :

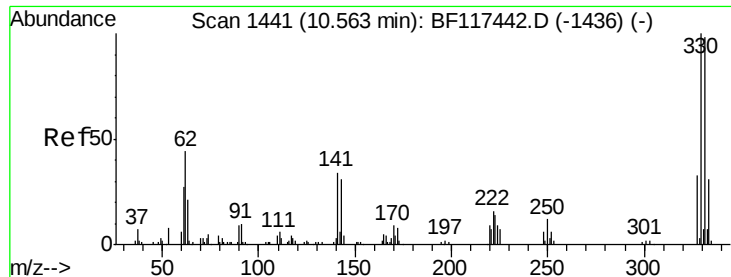
Tot Ion: 82 Resp: 4698
Ion Ratio Lower Upper
82 100
128 27.5 32.2 48.2#
54 38.3 34.2 51.2



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF117669.D
Acq: 31 Oct 2019 20:13

Tgt Ion: 164 Resp: 82922
Ion Ratio Lower Upper
164 100
162 101.3 81.8 122.6
160 42.2 34.4 51.6

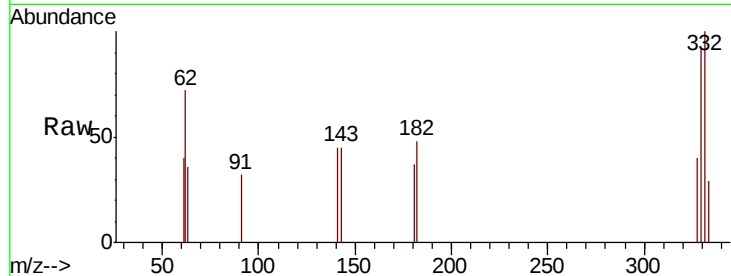




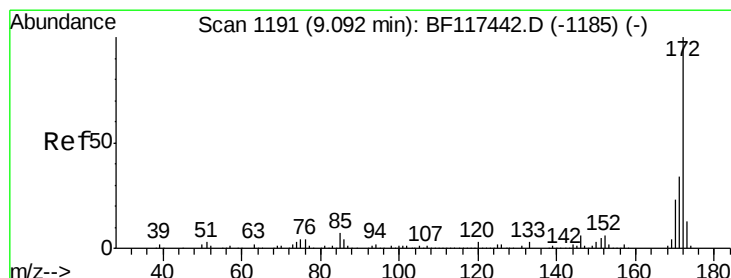
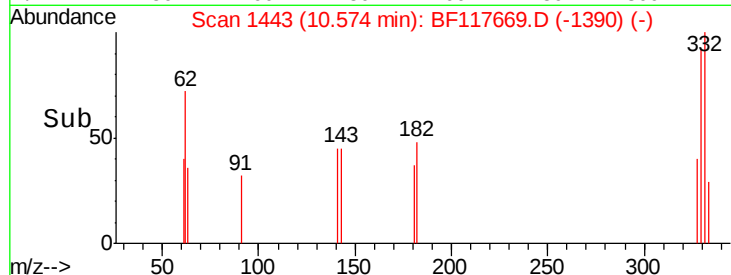
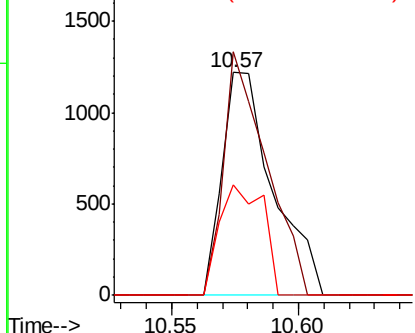
#42
 2,4,6-Tribromophenol
 Concen: 2.386 ng
 RT: 10.57 min Scan# 1443
 Delta R.T. 0.01 min
 Lab File: BF117669.D
 Acq: 31 Oct 2019 20:13

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 1712
 Ion Ratio Lower Upper
 330 100
 332 91.5 78.5 117.7
 141 42.4 37.0 55.6

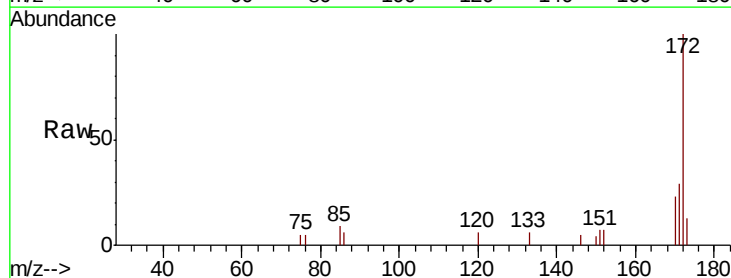


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

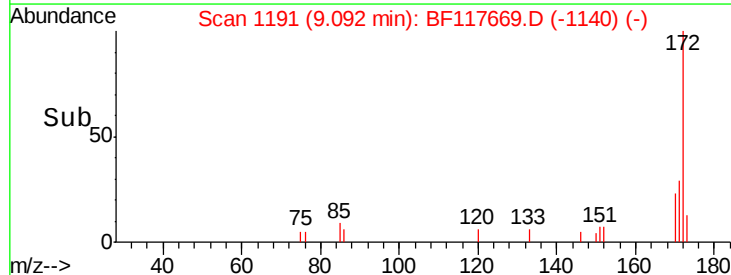
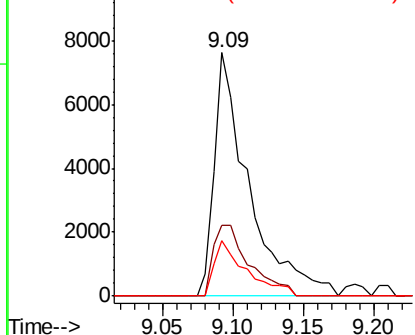


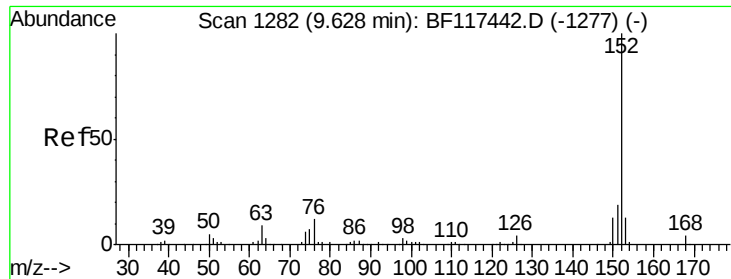
#45
 2-Fluorobiphenyl
 Concen: 2.219 ng
 RT: 9.09 min Scan# 1191
 Delta R.T. -0.00 min
 Lab File: BF117669.D
 Acq: 31 Oct 2019 20:13

Tgt Ion:172 Resp: 13060
 Ion Ratio Lower Upper
 172 100
 171 29.0 27.5 41.3
 170 23.0 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





#49

Acenaphthylene

Concen: 2.791 ng

RT: 9.63 min Scan# 1282

Delta R.T. -0.00 min

Lab File: BF117669.D

Acq: 31 Oct 2019 20:13

Instrument :

BNA_F

ClientSampleId :

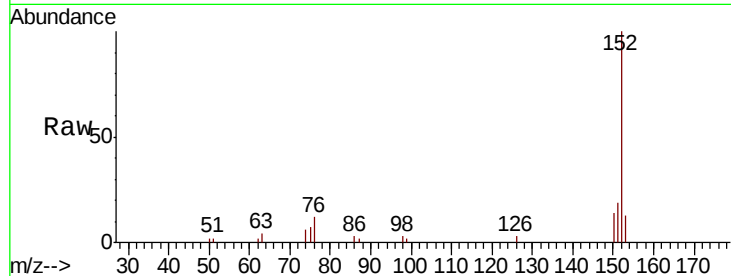
Tot Ion:152 Resp: 21219

Ion Ratio Lower Upper

152 100

151 18.7 15.4 23.0

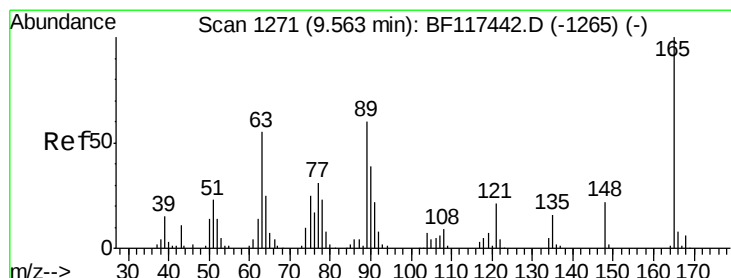
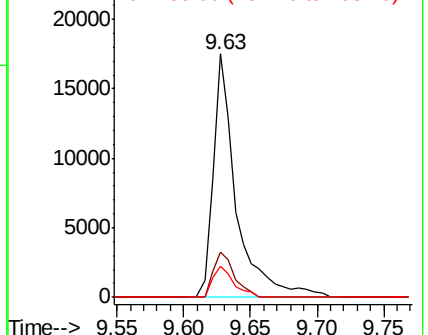
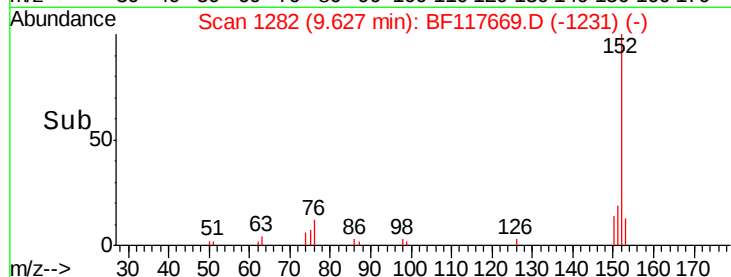
153 12.7 10.3 15.5



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



#51

2,6-Dinitrotoluene

Concen: 8.732 ng

RT: 9.76 min Scan# 1305

Delta R.T. 0.20 min

Lab File: BF117669.D

Acq: 31 Oct 2019 20:13

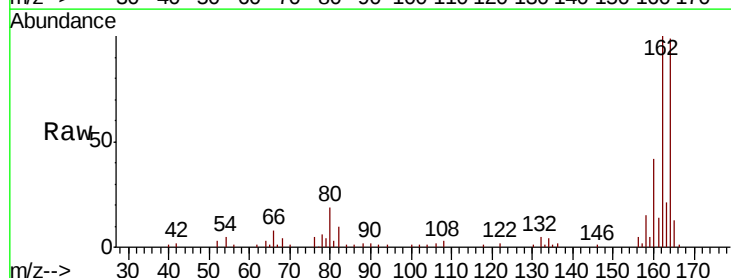
Tgt Ion:165 Resp: 10771

Ion Ratio Lower Upper

165 100

63 0.0 43.8 65.8#

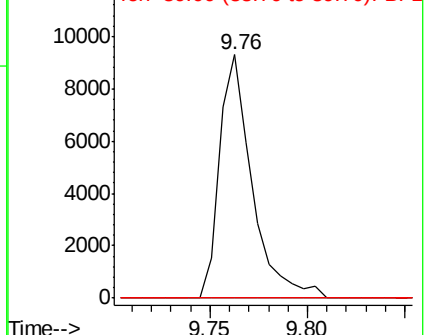
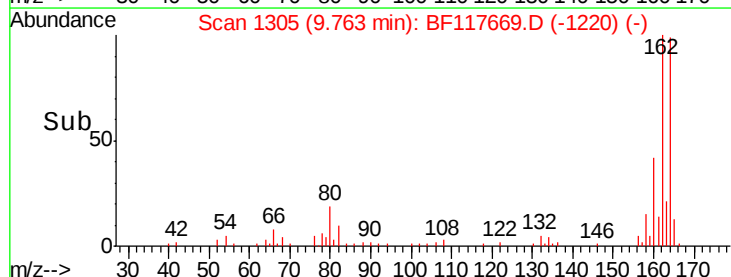
89 0.0 47.6 71.4#

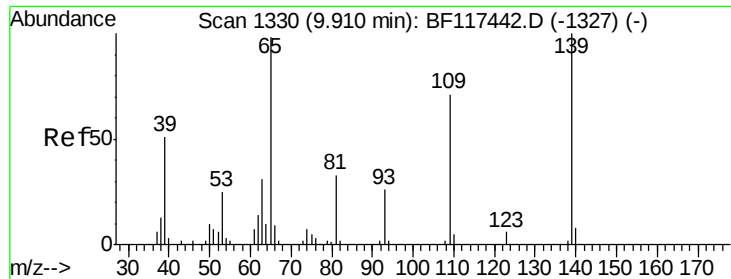


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

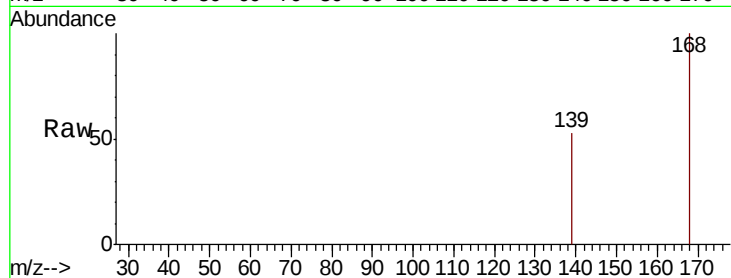




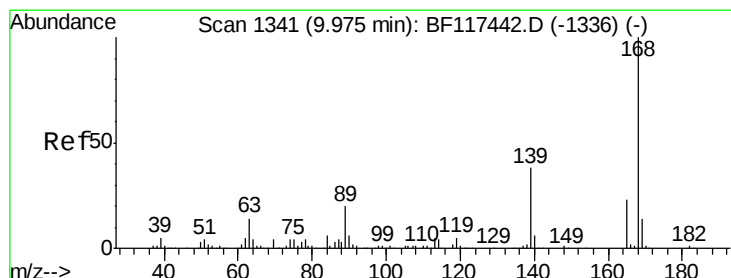
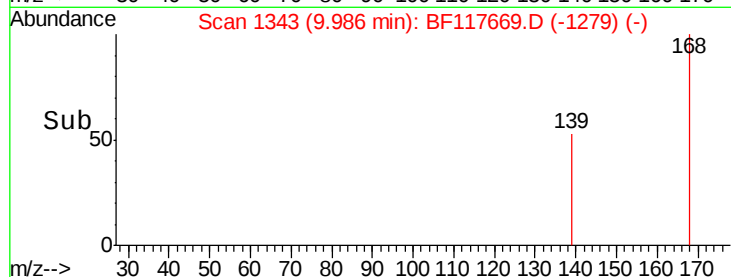
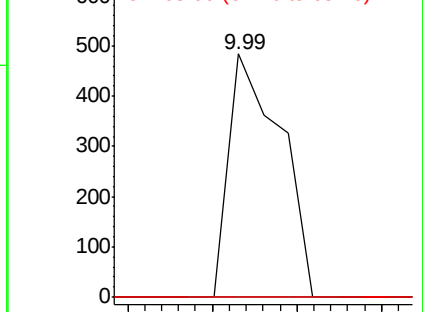
#56
4-Nitrophenol
Concen: 4.700 ng
RT: 9.99 min Scan# 1343
Delta R.T. 0.08 min
Lab File: BF117669.D
Acq: 31 Oct 2019 20:13

Instrument :
BNA_F
ClientSampleId :

Tot Ion:139 Resp: 414
Ion Ratio Lower Upper
139 100
109 0.0 51.4 91.4#
65 0.0 79.4 119.4#

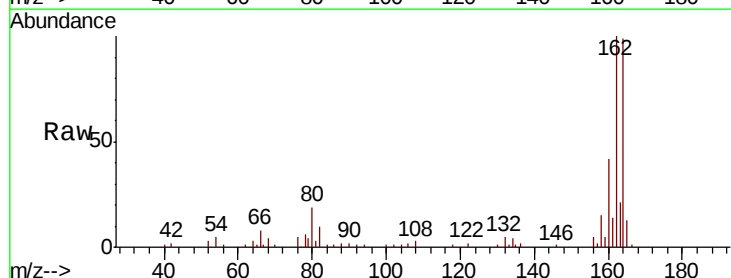


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

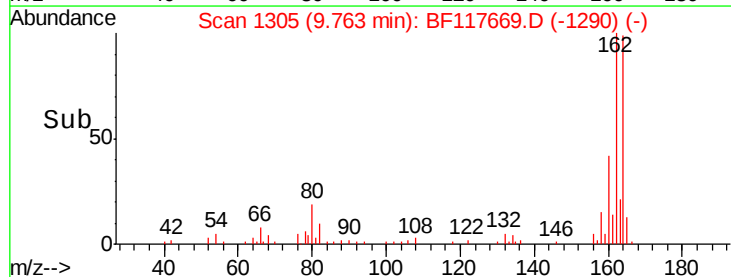
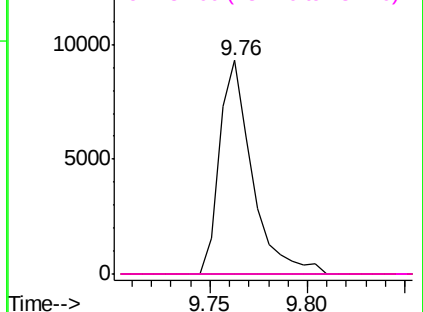


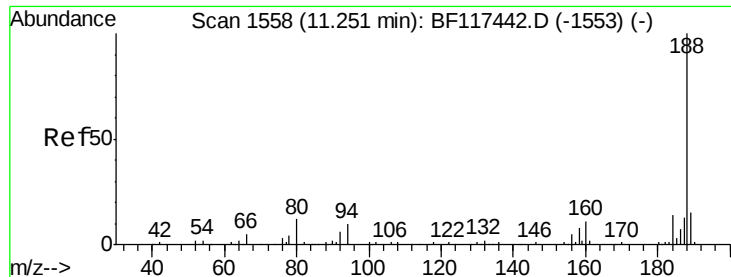
#57
2,4-Dinitrotoluene
Concen: 6.567 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.21 min
Lab File: BF117669.D
Acq: 31 Oct 2019 20:13

Tgt Ion:165 Resp: 10771
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): BF1





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.25 min Scan# 1558

Delta R.T. -0.00 min

Lab File: BF117669.D

Acq: 31 Oct 2019 20:13

Instrument :

BNA_F

ClientSampleId :

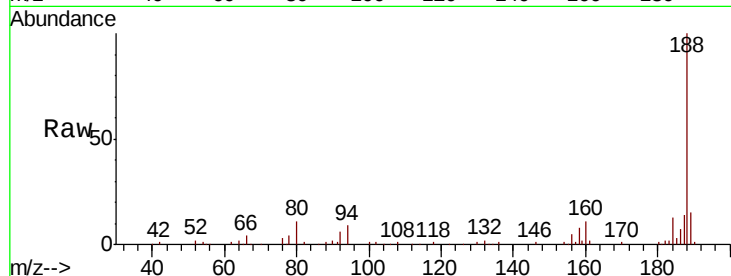
Tot Ion:188 Resp: 127890

Ion Ratio Lower Upper

188 100

94 8.6 8.0 12.0

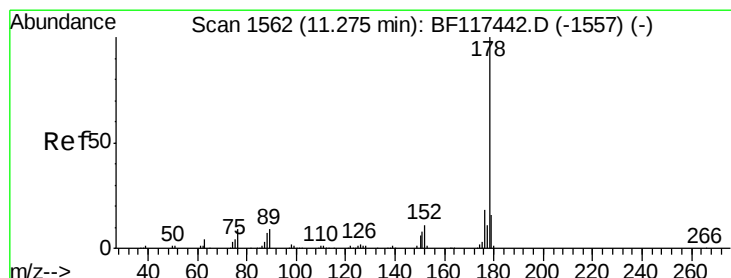
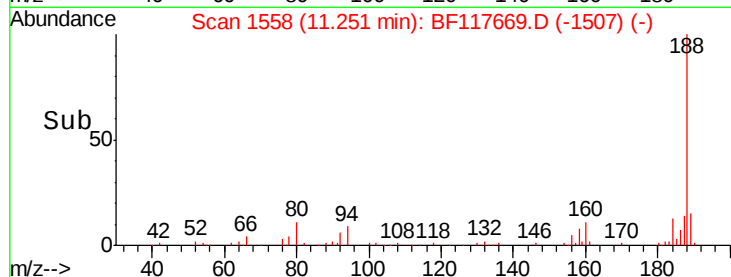
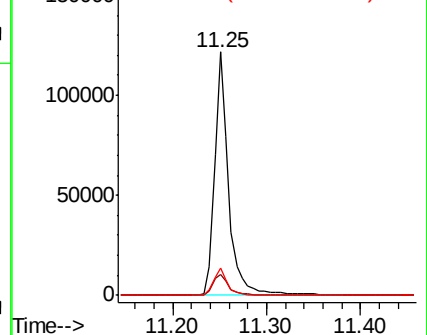
80 11.5 9.5 14.3



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: 5.919 ng

RT: 11.27 min Scan# 1562

Delta R.T. -0.00 min

Lab File: BF117669.D

Acq: 31 Oct 2019 20:13

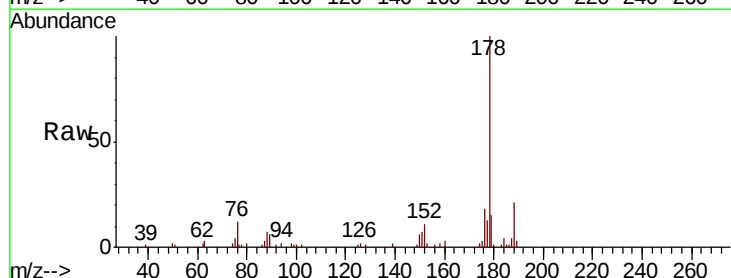
Tgt Ion:178 Resp: 43958

Ion Ratio Lower Upper

178 100

176 18.1 14.6 22.0

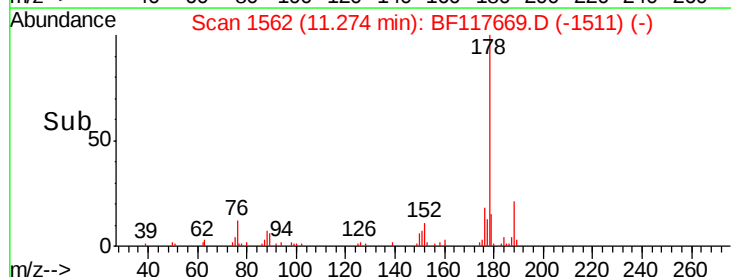
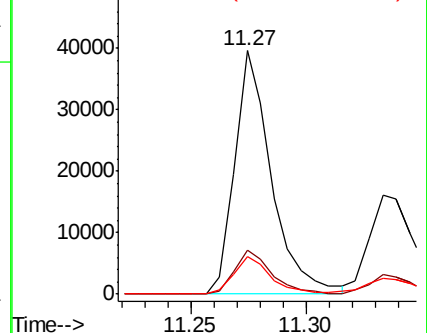
179 15.3 12.6 19.0

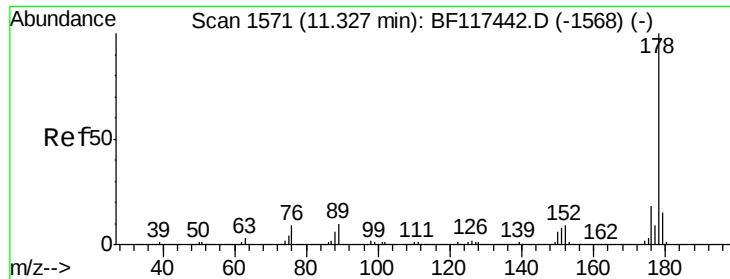


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

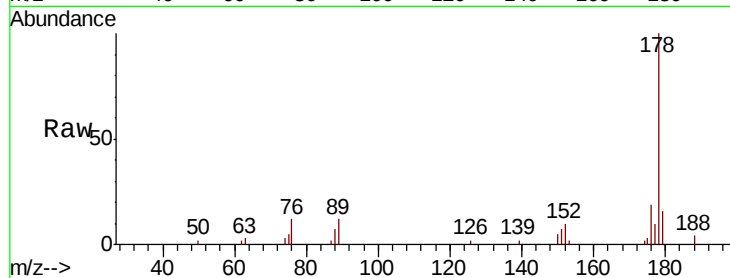




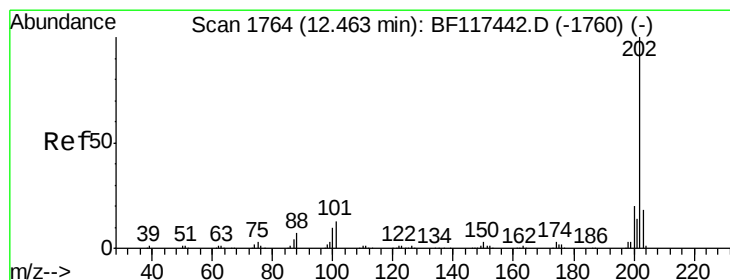
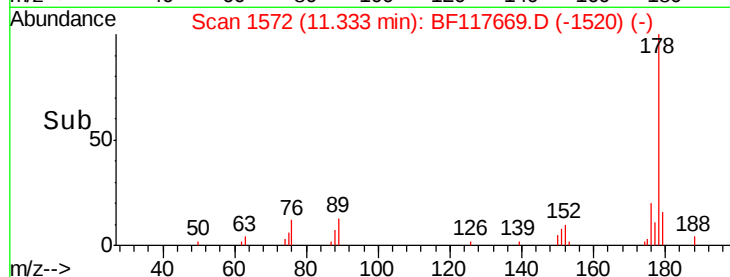
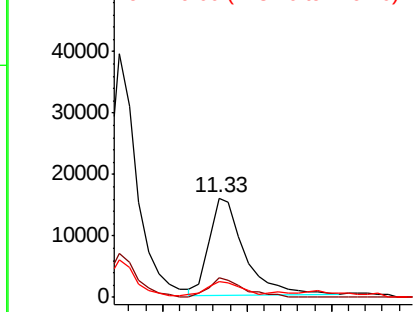
#72
 Anthracene
 Concen: 3.026 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. 0.01 min
 Lab File: BF117669.D
 Acq: 31 Oct 2019 20:13

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:178 Resp: 23054
 Ion Ratio Lower Upper
 178 100
 176 19.2 14.7 22.1
 179 15.6 12.2 18.2

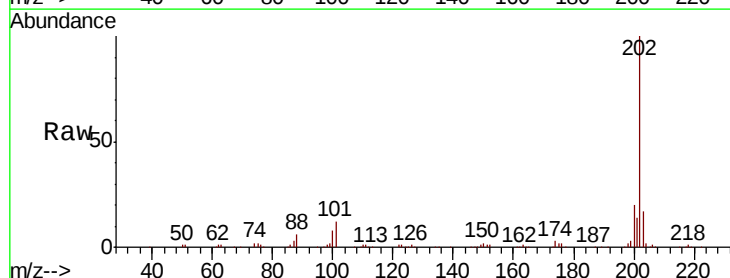


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

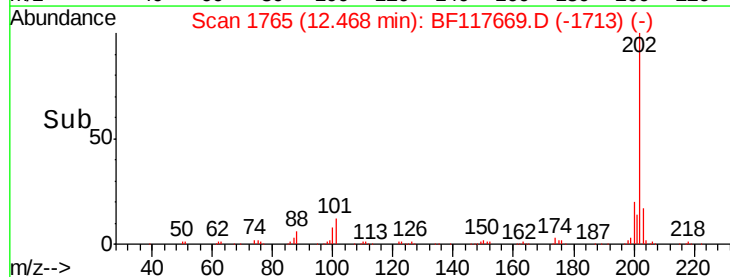
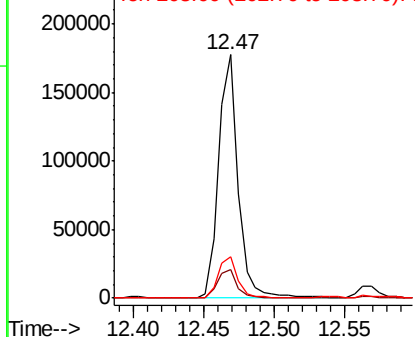


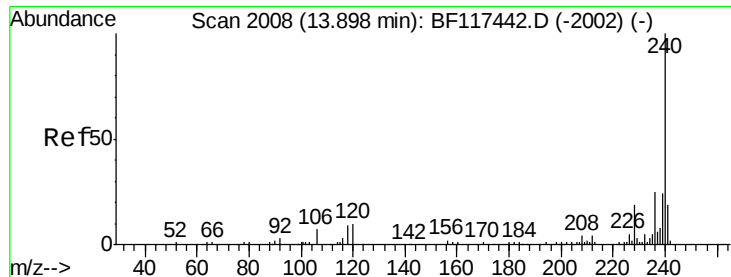
#75
 Fluoranthene
 Concen: 23.059 ng
 RT: 12.47 min Scan# 1765
 Delta R.T. 0.01 min
 Lab File: BF117669.D
 Acq: 31 Oct 2019 20:13

Tgt Ion:202 Resp: 171421
 Ion Ratio Lower Upper
 202 100
 101 11.5 0.0 32.7
 203 17.1 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

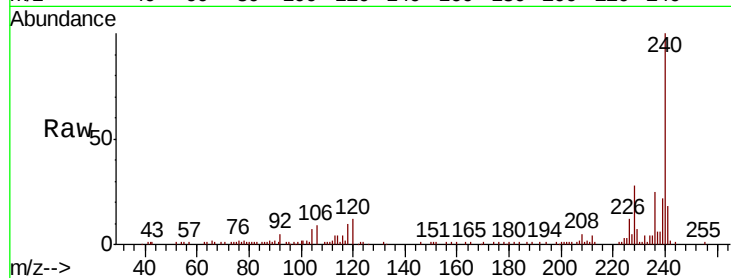




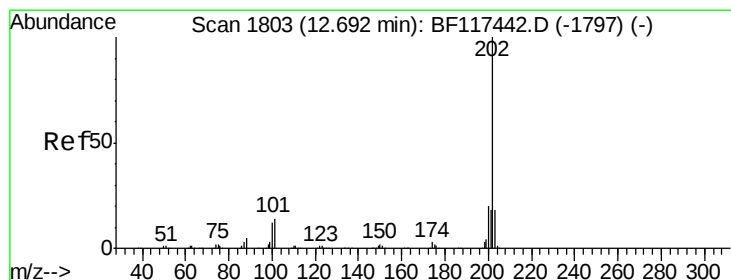
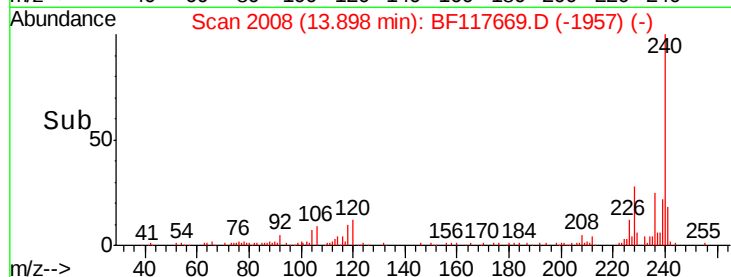
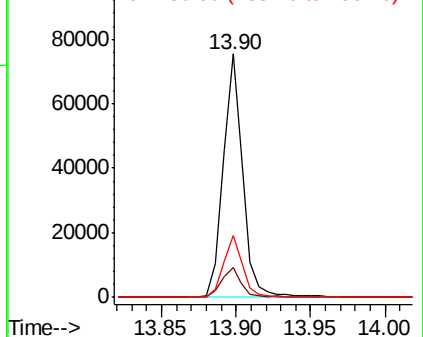
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.90 min Scan# 2008
Delta R.T. -0.00 min
Lab File: BF117669.D
Acq: 31 Oct 2019 20:13

Instrument :
BNA_F
ClientSampleId :

Tot Ion:240 Resp: 69883
Ion Ratio Lower Upper
240 100
120 12.2 8.4 12.6
236 25.3 20.0 30.0

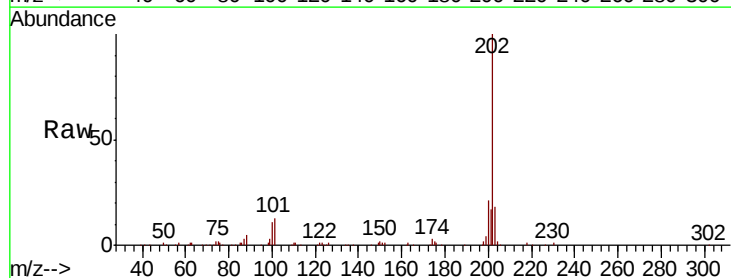


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

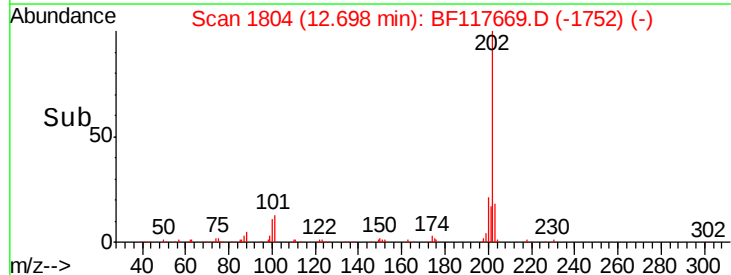
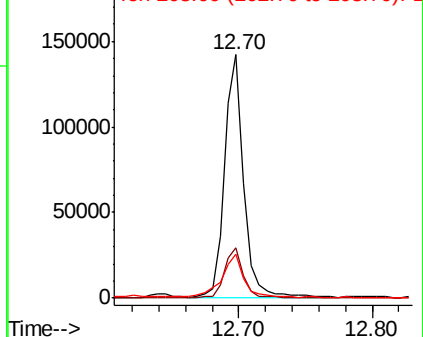


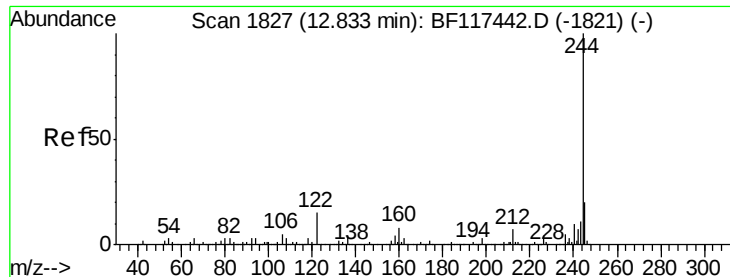
#78
Pyrene
Concen: 23.839 ng
RT: 12.70 min Scan# 1804
Delta R.T. 0.01 min
Lab File: BF117669.D
Acq: 31 Oct 2019 20:13

Tgt Ion:202 Resp: 143096
Ion Ratio Lower Upper
202 100
200 20.9 16.2 24.2
203 17.8 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: 2.729 ng

RT: 12.83 min Scan# 1826

Delta R.T. -0.01 min

Lab File: BF117669.D

Acq: 31 Oct 2019 20:13

Instrument :

BNA_F

ClientSampleId :

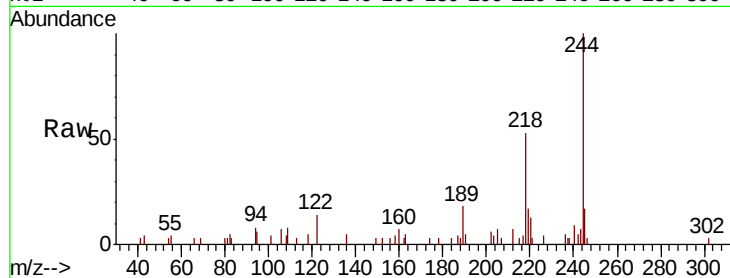
Tot Ion:244 Resp: 11693

Ion Ratio Lower Upper

244 100

212 6.6 5.8 8.6

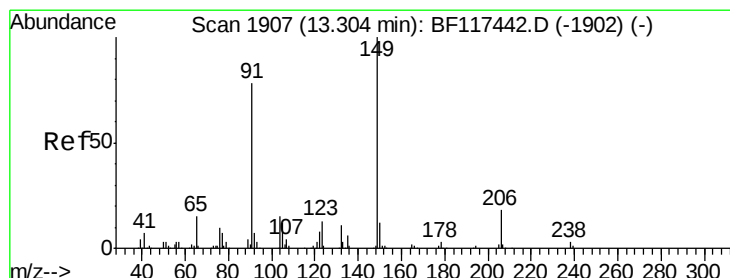
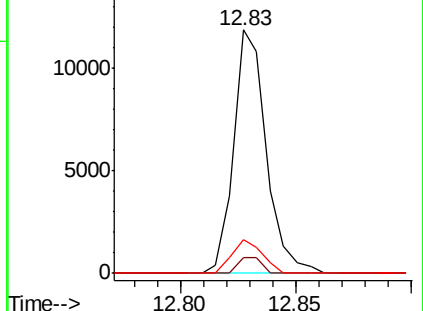
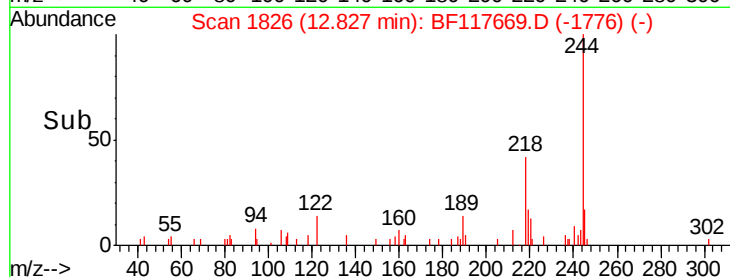
122 13.9 11.8 17.8



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



#80

Butylbenzylphthalate

Concen: 3.317 ng

RT: 13.30 min Scan# 1906

Delta R.T. -0.01 min

Lab File: BF117669.D

Acq: 31 Oct 2019 20:13

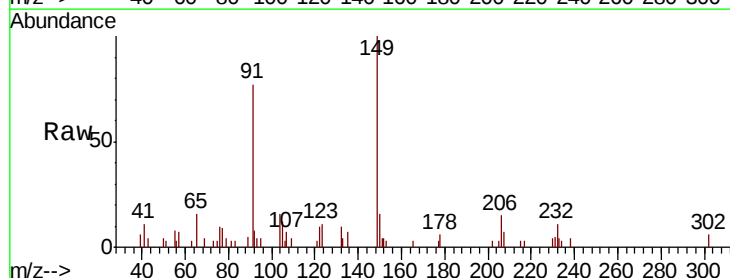
Tgt Ion:149 Resp: 9907

Ion Ratio Lower Upper

149 100

91 77.0 62.1 93.1

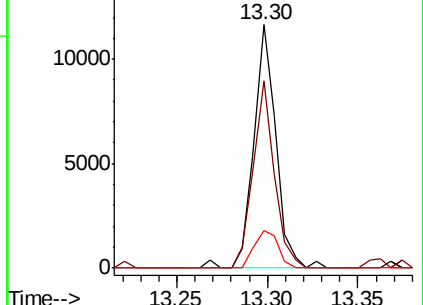
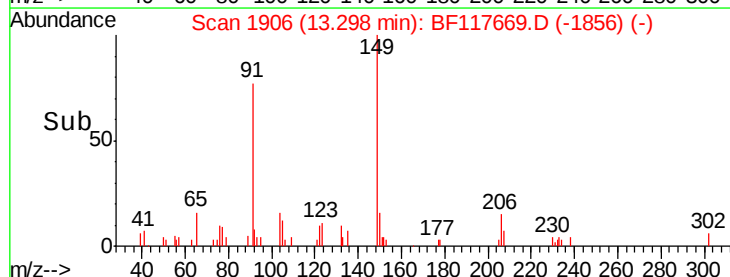
206 15.5 14.3 21.5

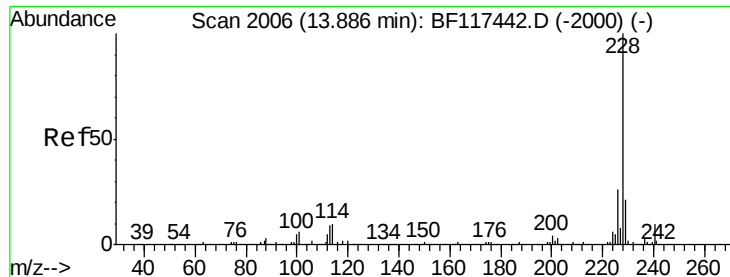


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF1

Ion 206.00 (205.70 to 206.70): E

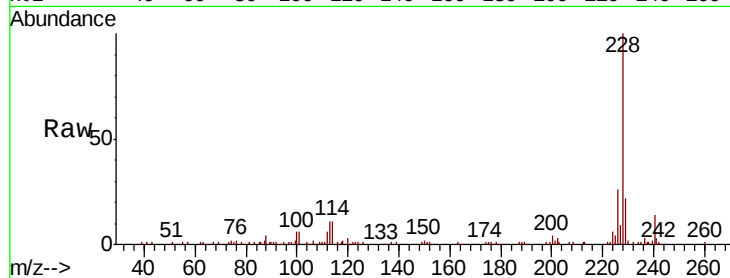




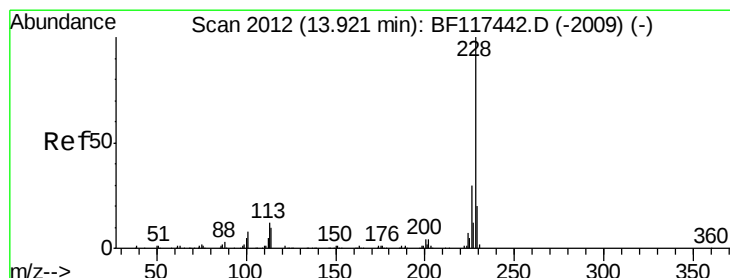
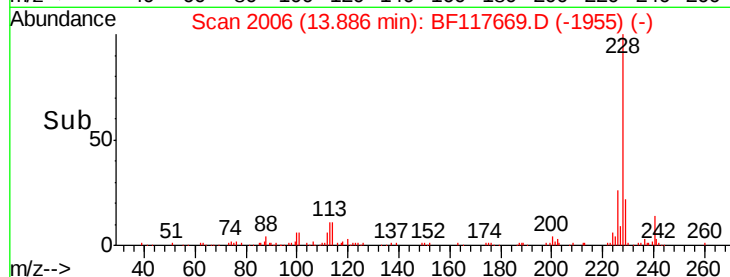
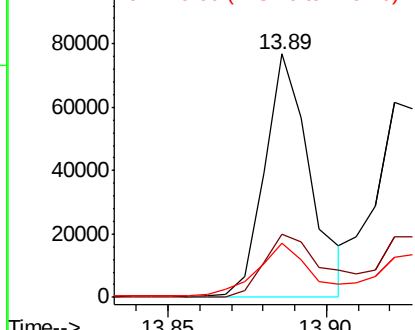
#81
Benzo(a)anthracene
Concen: 16.392 ng
RT: 13.89 min Scan# 2006
Delta R.T. -0.00 min
Lab File: BF117669.D
Acq: 31 Oct 2019 20:13

Instrument :
BNA_F
ClientSampleId :

Tot Ion:228 Resp: 77269
Ion Ratio Lower Upper
228 100
226 25.8 21.0 31.4
229 22.2 16.4 24.6

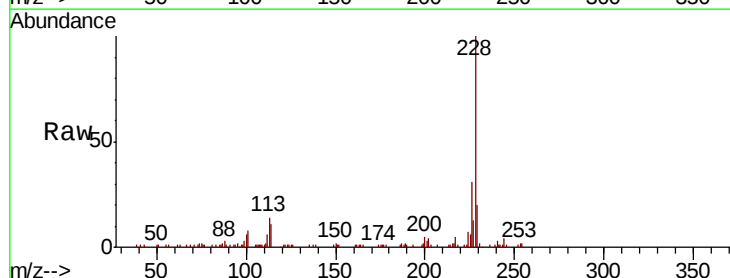


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

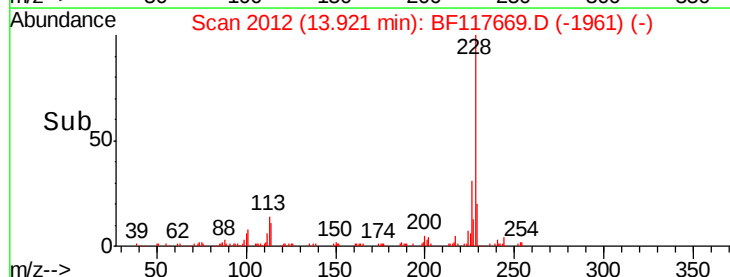
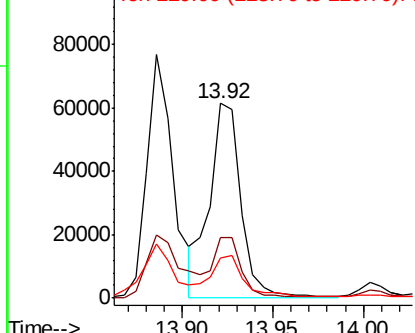


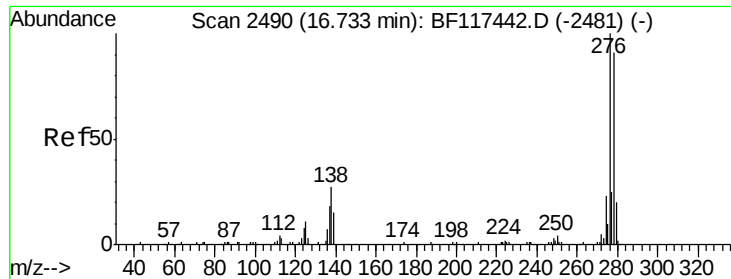
#83
Chrysene
Concen: 16.242 ng
RT: 13.92 min Scan# 2012
Delta R.T. -0.00 min
Lab File: BF117669.D
Acq: 31 Oct 2019 20:13

Tgt Ion:228 Resp: 75037
Ion Ratio Lower Upper
228 100
226 31.2 23.9 35.9
229 20.4 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: 9.219 ng

RT: 16.76 min Scan# 2495

Delta R.T. 0.03 min

Lab File: BF117669.D

Acq: 31 Oct 2019 20:13

Instrument :

BNA_F

ClientSampleId :

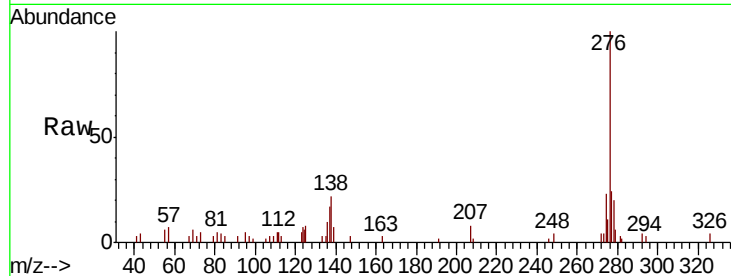
Tot Ion:276 Resp: 31798

Ion Ratio Lower Upper

276 100

138 24.9 21.8 32.8

277 24.6 20.0 30.0

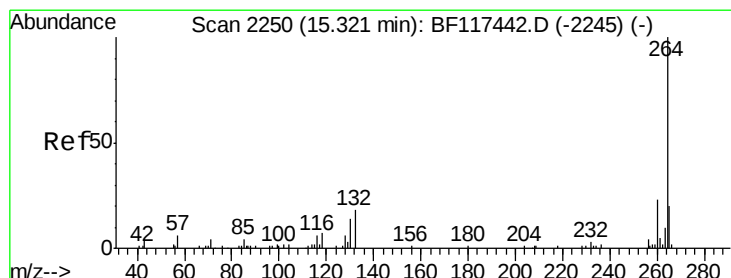
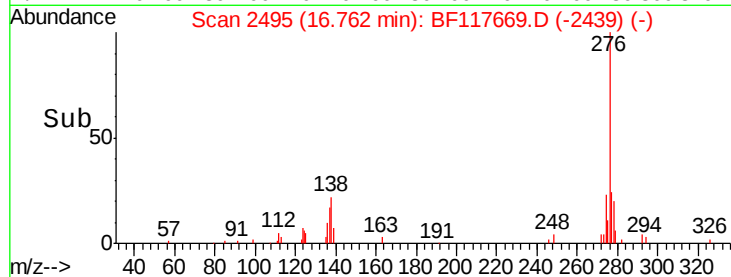
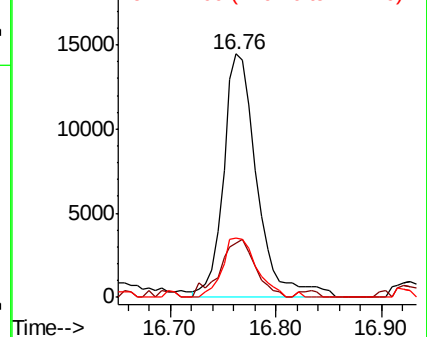


Abundance

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: 15.34 min Scan# 2253

Delta R.T. 0.02 min

Lab File: BF117669.D

Acq: 31 Oct 2019 20:13

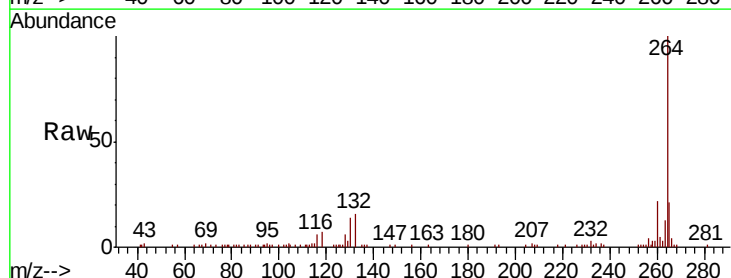
Tgt Ion:264 Resp: 76810

Ion Ratio Lower Upper

264 100

260 22.1 18.4 27.6

265 20.7 16.1 24.1

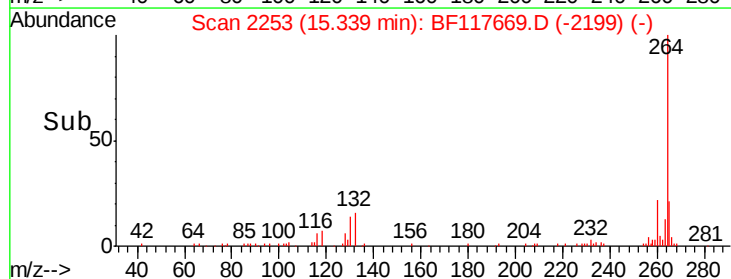
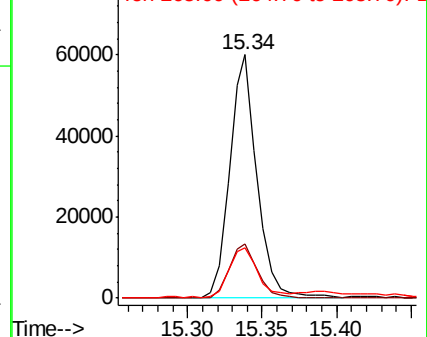


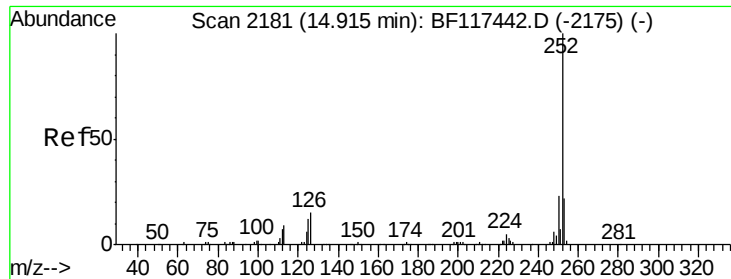
Abundance

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: 26.123 ng

RT: 14.93 min Scan# 2183

Delta R.T. 0.01 min

Lab File: BF117669.D

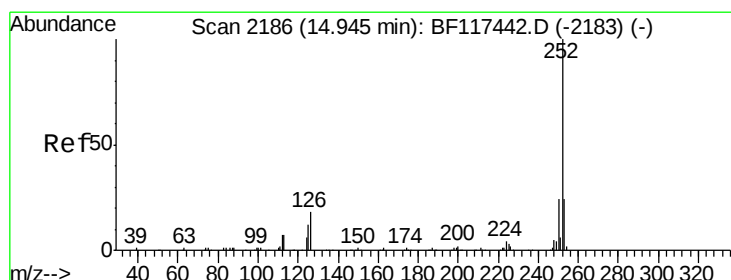
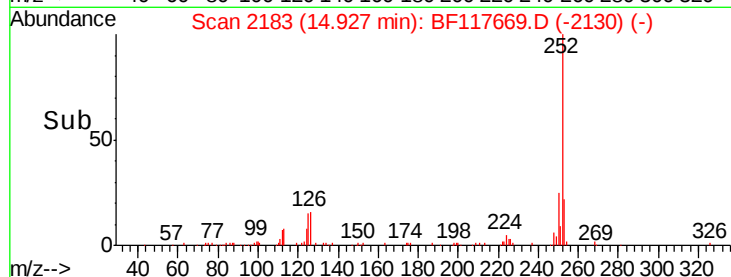
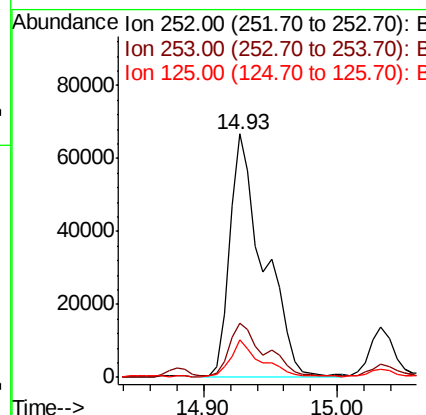
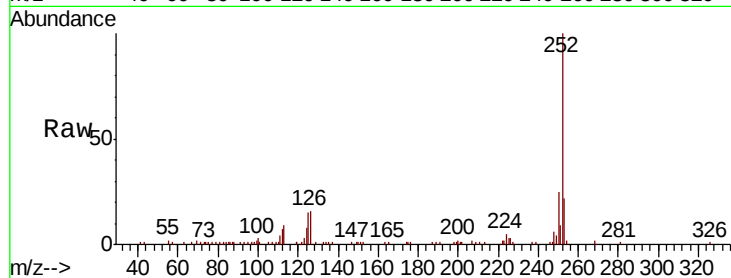
Acq: 31 Oct 2019 20:13

Instrument :

BNA_F

ClientSampleId :

Tot Ion:252	Resp:	118487
Ion Ratio	Lower	Upper
252	100	
253	22.0	17.8 26.6
125	15.5	9.9 14.9#



#89

Benzo(k)fluoranthene

Concen: 25.487 ng

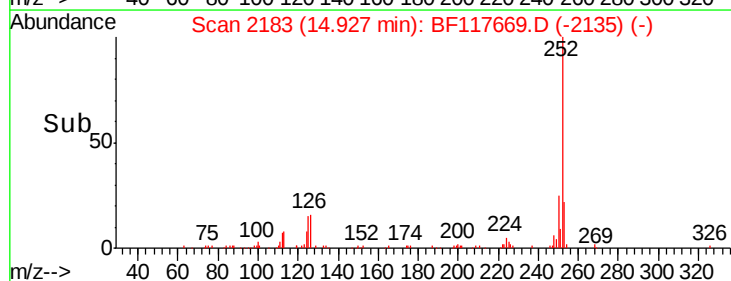
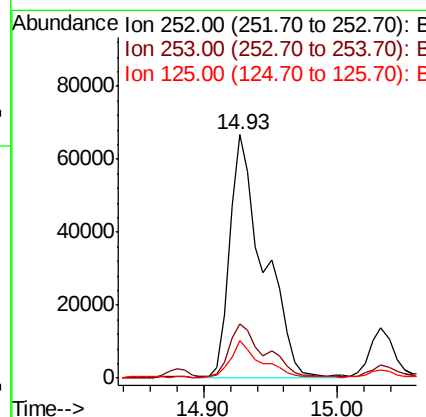
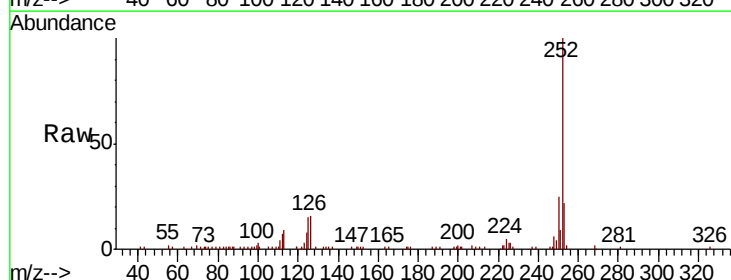
RT: 14.93 min Scan# 2183

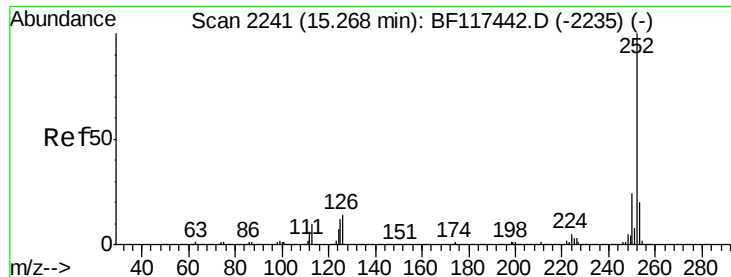
Delta R.T. -0.02 min

Lab File: BF117669.D

Acq: 31 Oct 2019 20:13

Tgt Ion:252	Resp:	118487
Ion Ratio	Lower	Upper
252	100	
253	22.0	18.0 27.0
125	15.5	8.9 13.3#





#90

Benzo(a)pyrene

Concen: 12.001 ng

RT: 15.28 min Scan# 2243

Delta R.T. 0.01 min

Lab File: BF117669.D

Acq: 31 Oct 2019 20:13

Instrument :

BNA_F

ClientSampleId :

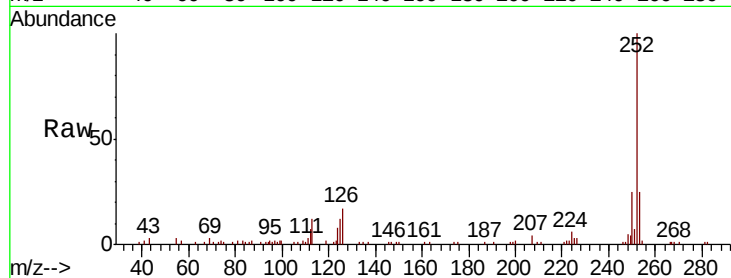
Tot Ion:252 Resp: 49491

Ion Ratio Lower Upper

252 100

253 24.9 16.3 24.5#

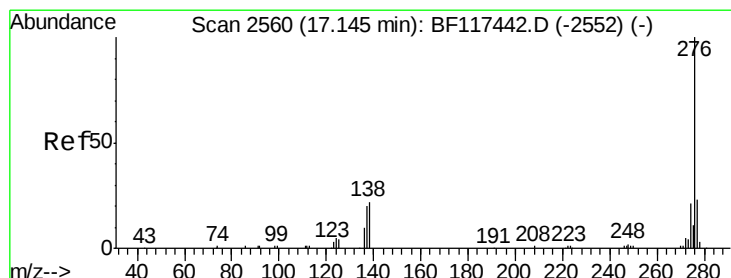
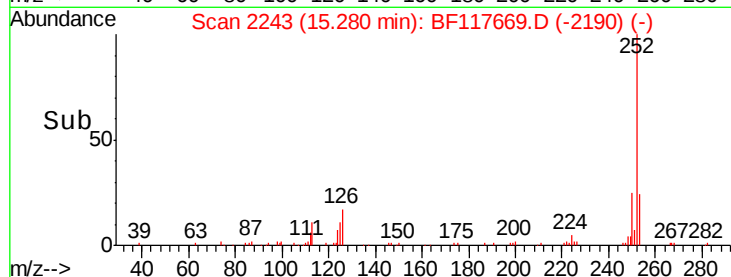
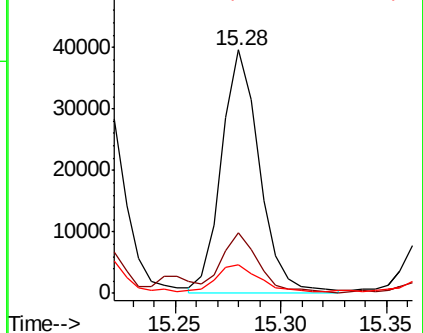
125 11.7 9.2 13.8



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(g,h,i)perylene

Concen: 7.590 ng

RT: 17.20 min Scan# 2570

Delta R.T. 0.06 min

Lab File: BF117669.D

Acq: 31 Oct 2019 20:13

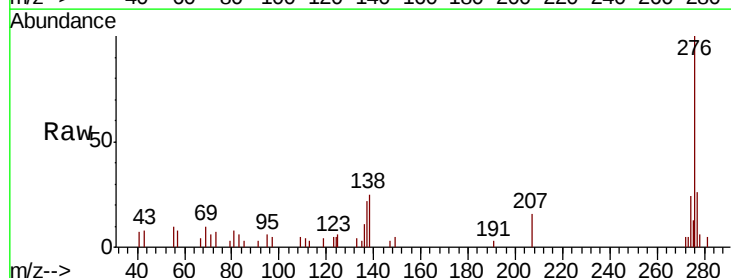
Tgt Ion:276 Resp: 25609

Ion Ratio Lower Upper

276 100

277 25.7 18.4 27.6

138 24.8 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

