

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061419\
 Data File : BF115063.D
 Acq On : 15 Jun 2019 1:42
 Operator : HP/JU
 Sample : K3156-03
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HD-01-061219

Quant Time: Jun 15 04:57:03 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061219.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 12 15:42:37 2019
 Response via : Initial Calibration

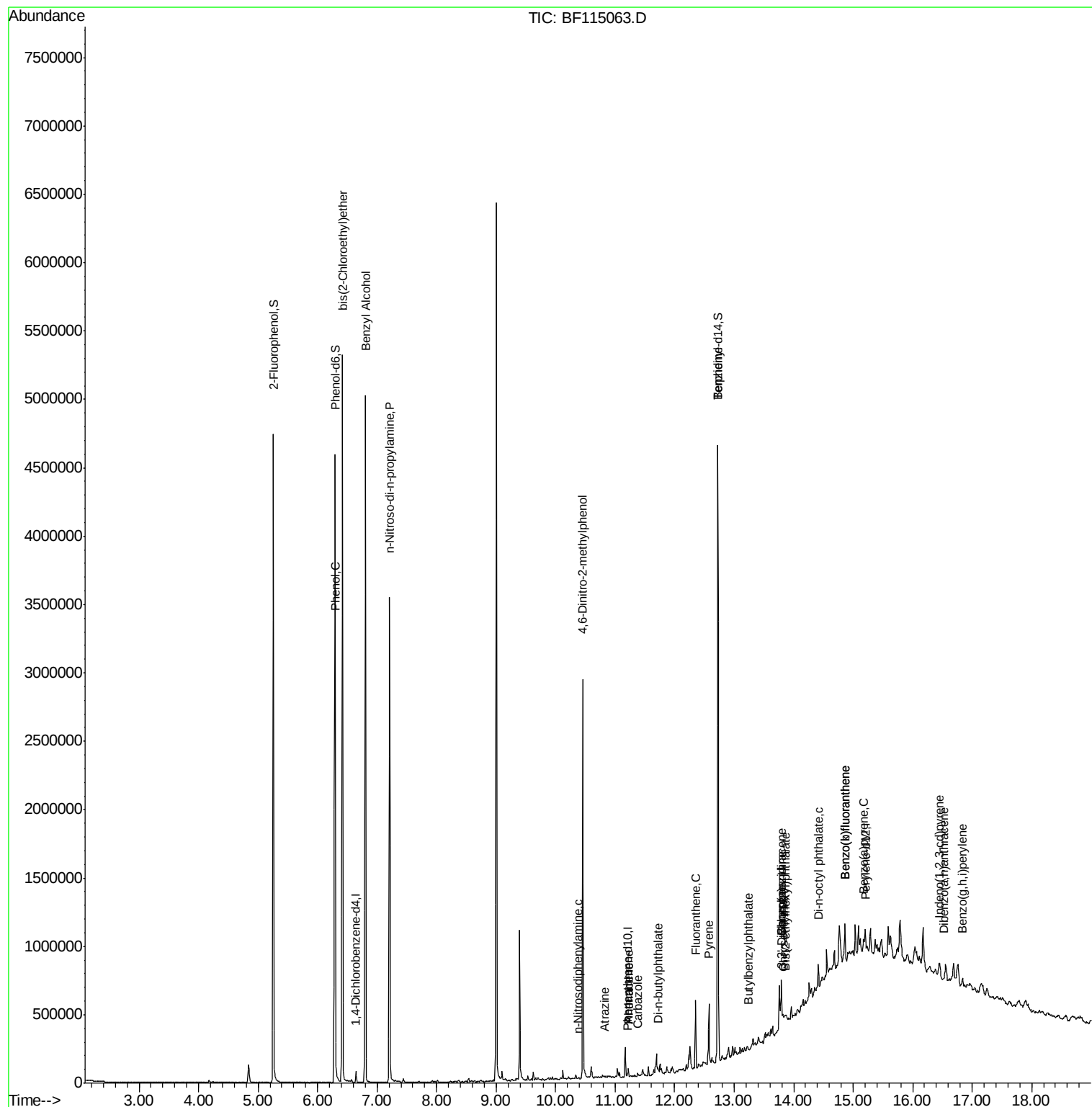
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.65	152	12291	20.00	ng	0.00
21) Naphthalene-d8	0.00	136	0	0.00	ng	-7.93
39) Acenaphthene-d10	0.00	164	0	0.00	ng	-9.68
64) Phenanthrene-d10	11.20	188	333	20.00	ng	0.04
76) Chrysene-d12	13.83	240	295	20.00	ng	0.05
87) Perylene-d12	15.22	264	428	20.00	ng	0.07
System Monitoring Compounds						
5) 2-Fluorophenol	5.26	112	1587913	2157.25	ng	0.00
7) Phenol-d6	6.29	99	1944395	2189.82	ng	0.00
23) Nitrobenzene-d5	7.21	82	1164241	0.00	ng	0.00
42) 2,4,6-Tribromophenol	10.46	330	367019	0.00	ng	-0.01
45) 2-Fluorobiphenyl	9.00	172	1974282	0.00	ng	0.00
79) Terphenyl-d14	12.73	244	1520909	96970.57	ng	-0.01
Target Compounds						
					Qvalue	
10) Phenol	6.30	94	13036	13.122	ng	85
11) bis(2-Chloroethyl)ether	6.42	93	2202	2.856	ng	# 1
15) Benzyl Alcohol	6.80	79	19498	29.309	ng	# 44
19) n-Nitroso-di-n-propylamine	7.21	70	152922	283.462	ng	# 77
65) 4,6-Dinitro-2-methylphenol	10.46	198	761	407.734	ng	# 1
66) n-Nitrosodiphenylamine	10.37	169	929	93.330	ng	# 8
69) Atrazine	10.83	200	108	33.652	ng	# 36
71) Phenanthrene	11.22	178	15482	900.469	ng	98
72) Anthracene	11.22	178	15482	892.583	ng	99
73) Carbazole	11.38	167	8576	566.467	ng	96
74) Di-n-butylphthalate	11.72	149	3171	166.142	ng	# 86
75) Fluoranthene	12.35	202	186358	10600.015	ng	98
77) Benzidine	12.73	184	19246	1612.966	ng	94
78) Pyrene	12.57	202	168341	6264.096	ng	97
80) Butylbenzylphthalate	13.24	149	263	20.952	ng	# 49
81) Benzo(a)anthracene	13.79	228	117134	5306.048	ng	97
82) 3,3'-Dichlorobenzidine	13.81	252	1545	182.550	ng	# 28
83) Chrysene	13.79	228	117134	5335.897	ng	96
84) Bis(2-ethylhexyl)phthalate	13.85	149	702	47.319	ng	# 61
85) Di-n-octyl phthalate	14.42	149	19247	753.395	ng	# 40
86) Indeno(1,2,3-cd)pyrene	16.45	276	52148	2704.357	ng	96
88) Benzo(b)fluoranthene	14.86	252	21798	766.135	ng	# 45
89) Benzo(k)fluoranthene	14.86	252	21798	872.852	ng	# 45
90) Benzo(a)pyrene	15.17	252	26065	1061.666	ng	# 60
91) Dibenzo(a,h)anthracene	16.52	278	4183	197.842	ng	# 1
92) Benzo(g,h,i)perylene	16.84	276	52967	2456.413	ng	# 88

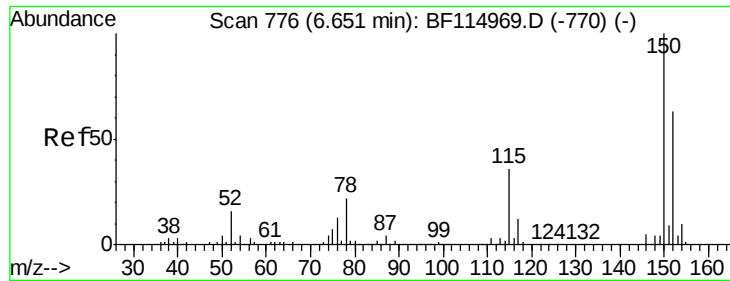
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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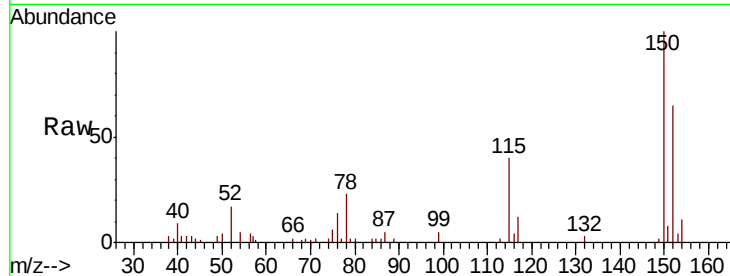


#1

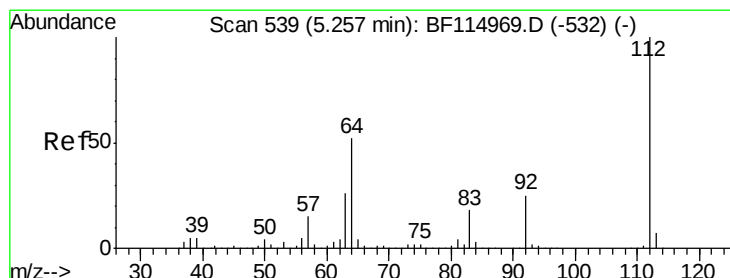
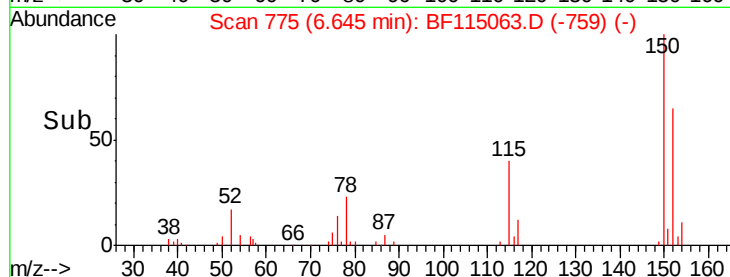
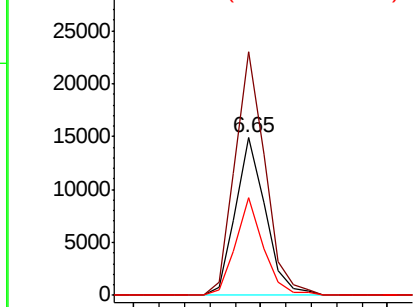
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.65 min Scan# 775
Delta R.T. -0.01 min
Lab File: BF115063.D
Acq: 15 Jun 2019 1:42

Instrument :
BNA_F
ClientSampleId :
HD-01-061219

Tot Ion:152 Resp: 12291
Ion Ratio Lower Upper
152 100
150 154.5 127.4 191.0
115 62.2 46.0 69.0



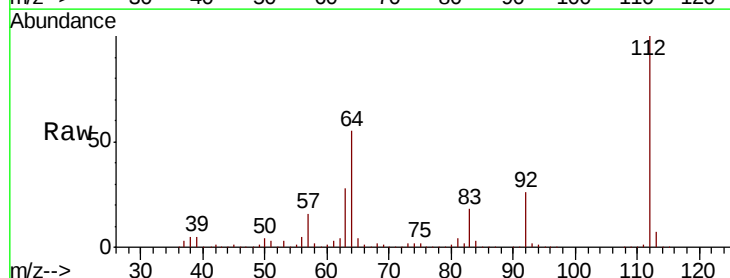
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



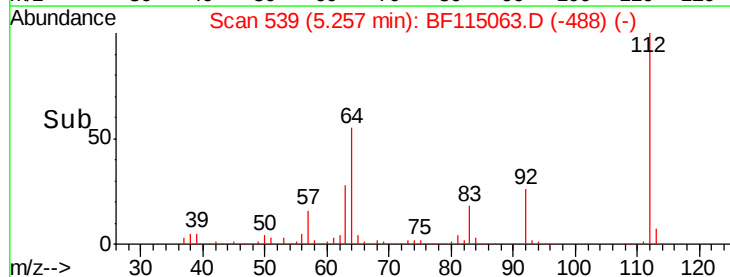
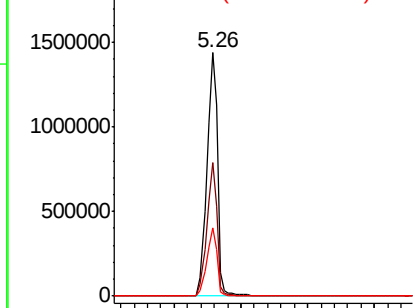
#5

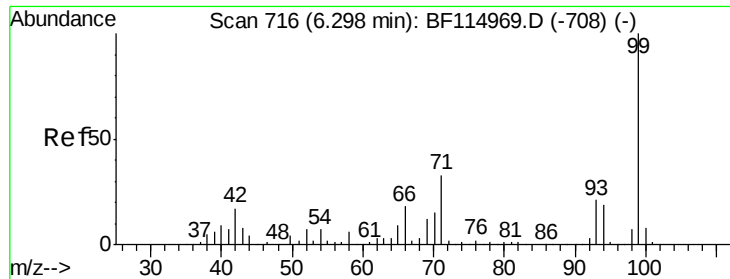
2-Fluorophenol
Concen: 2157.250 ng
RT: 5.26 min Scan# 539
Delta R.T. -0.00 min
Lab File: BF115063.D
Acq: 15 Jun 2019 1:42

Tgt Ion:112 Resp: 1587913
Ion Ratio Lower Upper
112 100
64 54.7 41.6 62.4
63 28.1 20.9 31.3



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: 2189.820 ng

RT: 6.29 min Scan# 715

Delta R.T. -0.01 min

Lab File: BF115063.D

Acq: 15 Jun 2019 1:42

Instrument :

BNA_F

ClientSampleId :

HD-01-061219

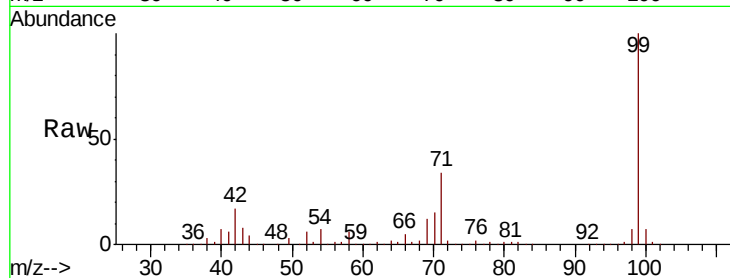
Tot Ion: 99 Resp: 1944395

Ion Ratio Lower Upper

99 100

42 16.8 13.4 20.2

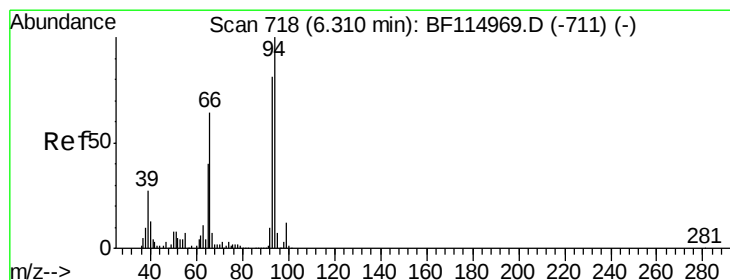
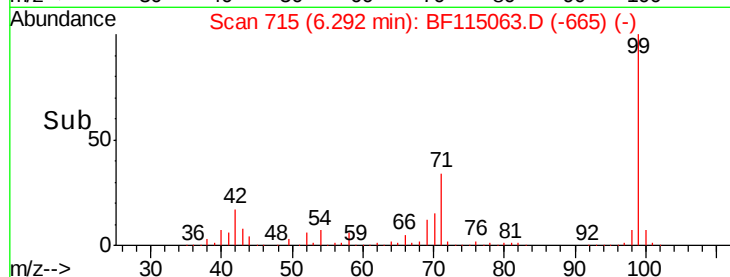
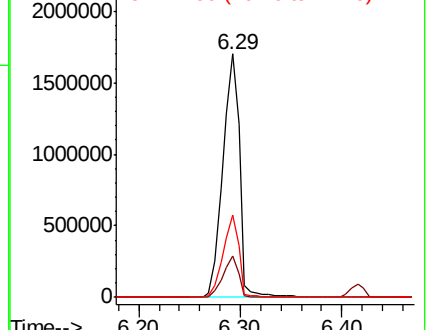
71 33.7 26.4 39.6



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: 13.122 ng

RT: 6.30 min Scan# 717

Delta R.T. -0.01 min

Lab File: BF115063.D

Acq: 15 Jun 2019 1:42

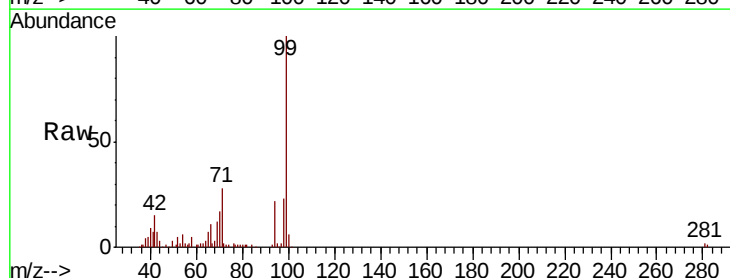
Tgt Ion: 94 Resp: 13036

Ion Ratio Lower Upper

94 100

65 32.2 20.0 60.0

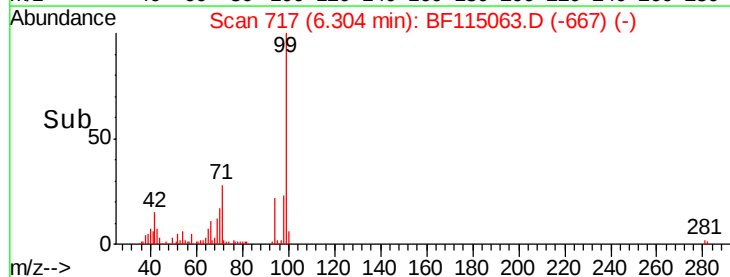
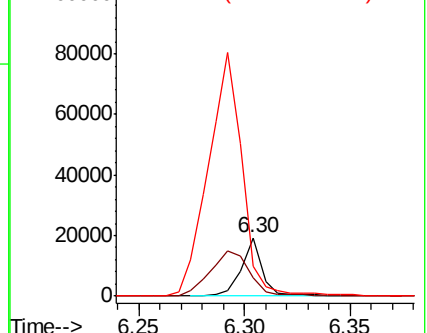
66 50.9 44.1 84.1

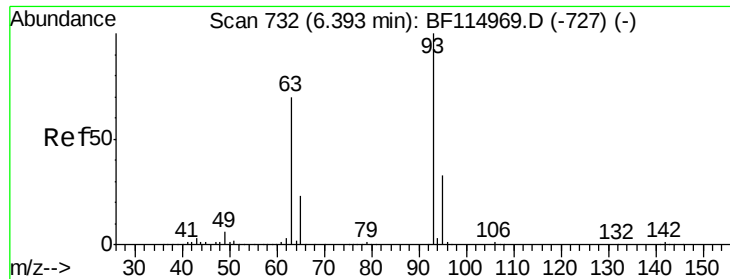


Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1

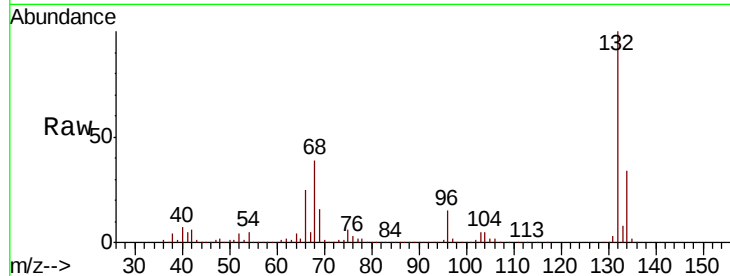




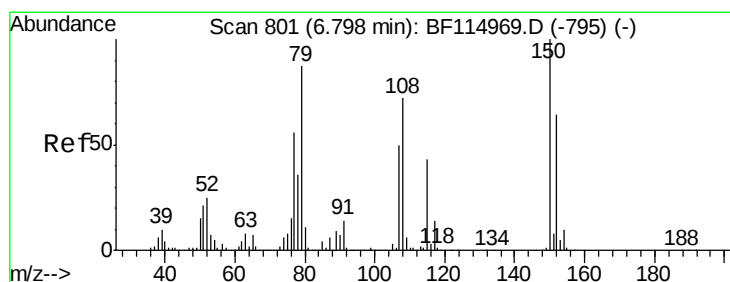
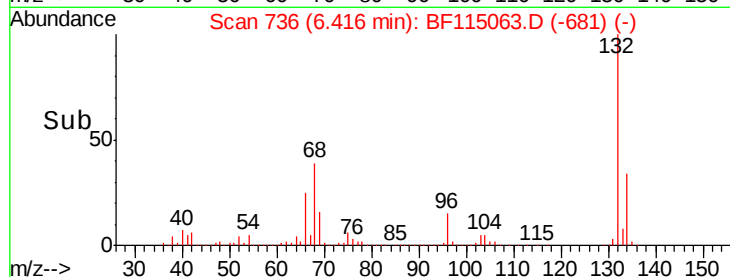
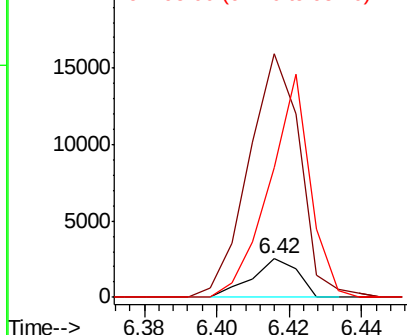
#11
bis(2-Chloroethyl)ether
Concen: 2.856 ng
RT: 6.42 min Scan# 736
Delta R.T. 0.02 min
Lab File: BF115063.D
Acq: 15 Jun 2019 1:42

Instrument :
BNA_F
ClientSampleId :
HD-01-061219

Tot Ion: 93 Resp: 2202
Ion Ratio Lower Upper
93 100
63 635.9 49.8 89.8#
95 339.3 13.3 53.3#

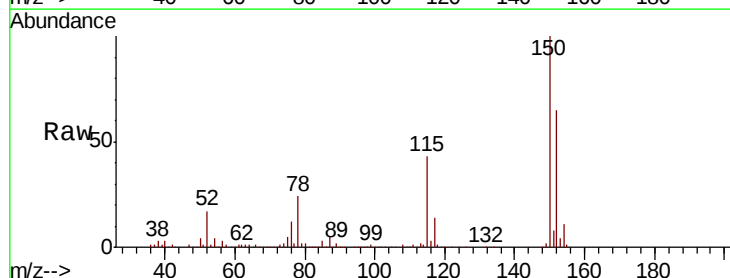


Abundance Ion 93.00 (92.70 to 93.70): BF1
Ion 63.00 (62.70 to 63.70): BF1
Ion 95.00 (94.70 to 95.70): BF1

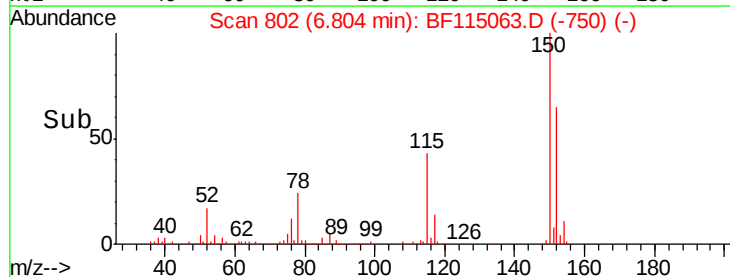
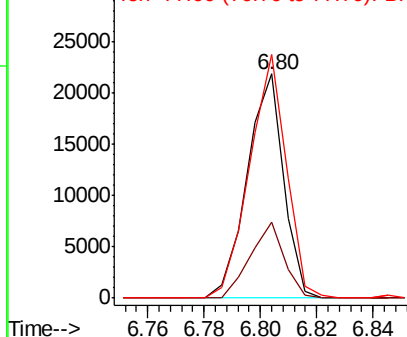


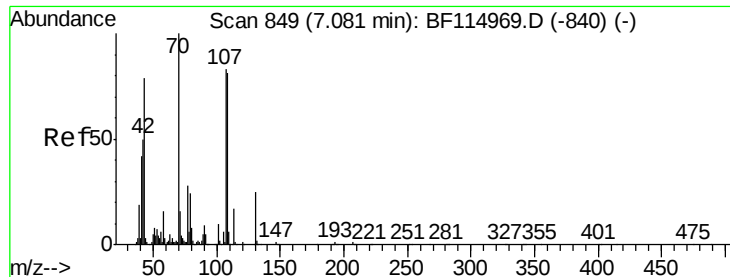
#15
Benzyl Alcohol
Concen: 29.309 ng
RT: 6.80 min Scan# 802
Delta R.T. 0.01 min
Lab File: BF115063.D
Acq: 15 Jun 2019 1:42

Tgt Ion: 79 Resp: 19498
Ion Ratio Lower Upper
79 100
108 33.9 66.0 99.0#
77 108.8 51.1 76.7#



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

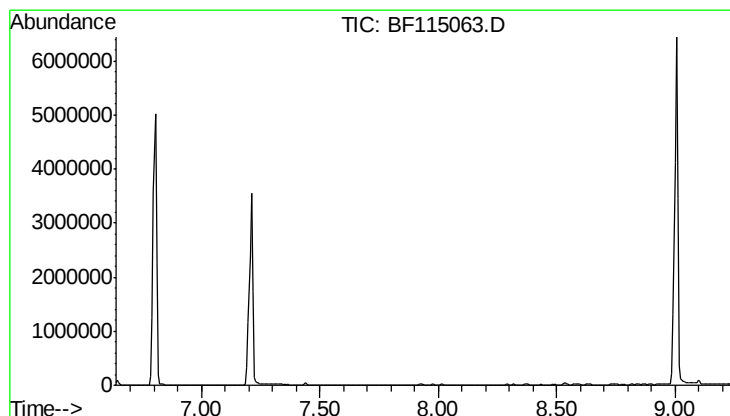
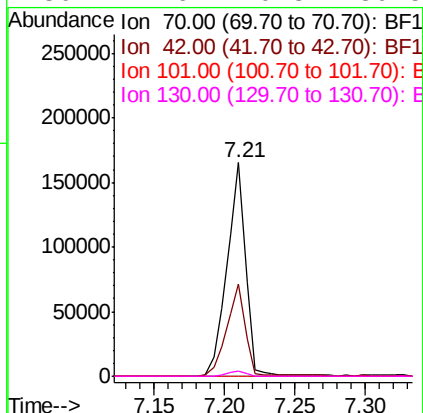
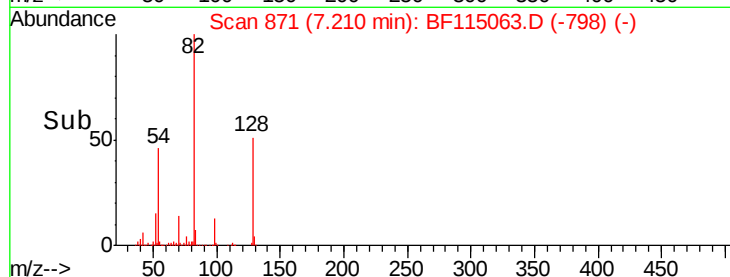
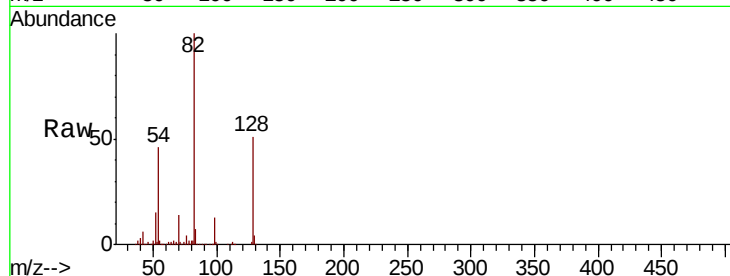




#19
n-Nitroso-di-n-propylamine
Concen: 283.462 ng
RT: 7.21 min Scan# 871
Delta R.T. 0.13 min
Lab File: BF115063.D
Acq: 15 Jun 2019 1:42

Instrument :
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ClientSampleId :
HD-01-061219

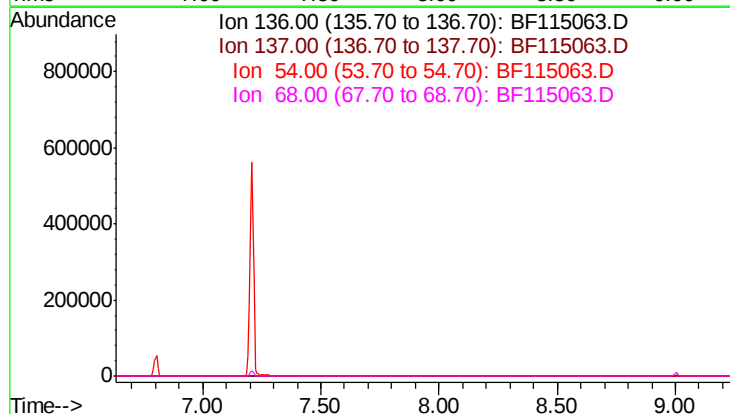
Tot Ion: 70 Resp: 152922
Ion Ratio Lower Upper
70 100
42 43.1 40.3 60.5
101 0.0 8.2 12.4#
130 2.6 20.3 30.5#

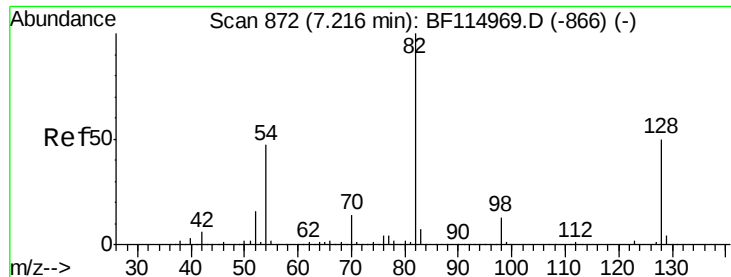


#21
Naphthalene-d8
Concen: 0.000 ng
Expected RT: 7.93 min

Lab File: BF115063.D
Acq: 15 Jun 2019 1:42

Tgt Ion: 136
Sig Exp Ratio
136 100
137 11.2
54 6.7
68 5.8

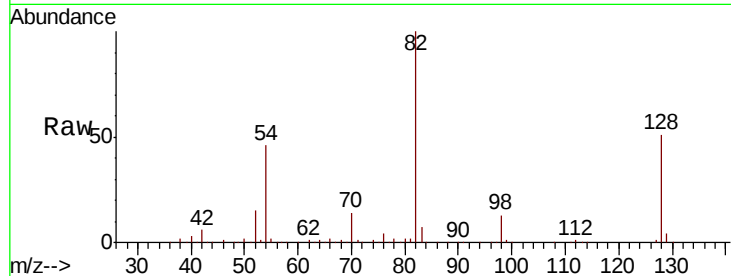




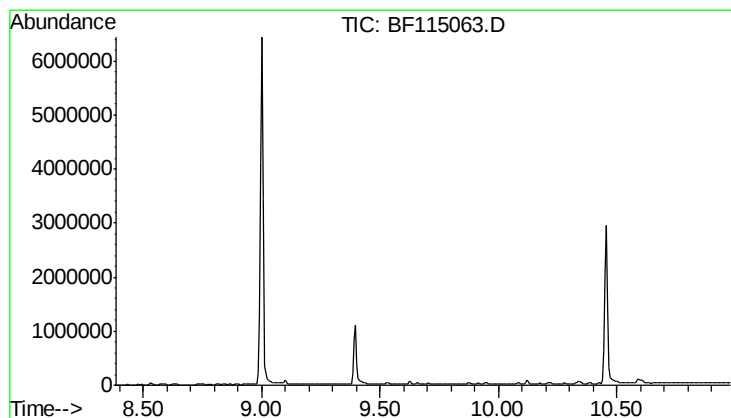
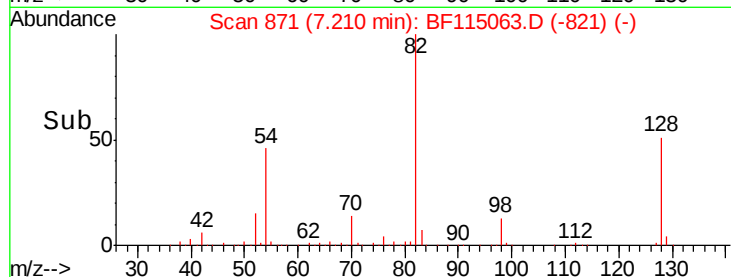
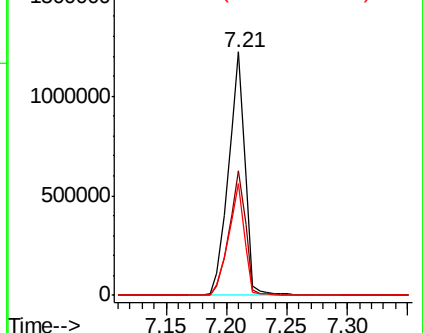
#23
 Nitrobenzene-d5
 Concen: 0.000 ng
 RT: 7.21 min Scan# 871
 Delta R.T. -0.01 min
 Lab File: BF115063.D
 Acq: 15 Jun 2019 1:42

Instrument :
 BNA_F
 ClientSampleId :
 HD-01-061219

Tot Ion: 82 Resp: 1164241
 Ion Ratio Lower Upper
 82 100
 128 51.2 39.9 59.9
 54 46.0 37.3 55.9

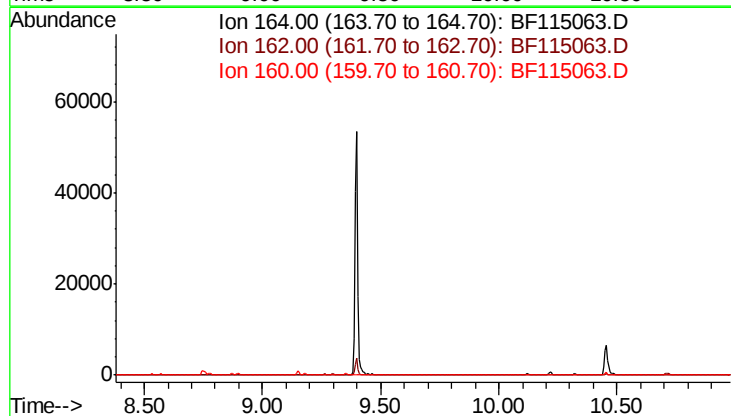


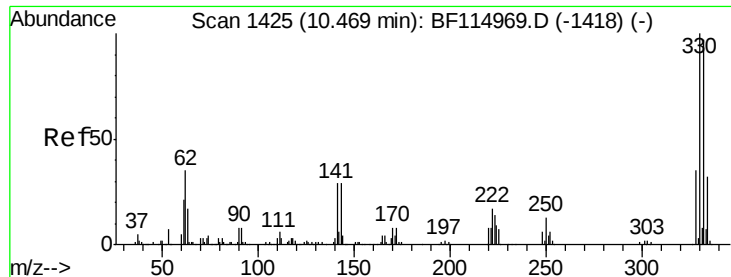
Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): BF1
 Ion 54.00 (53.70 to 54.70): BF1



#39
 Acenaphthene-d10
 Concen: 0.000 ng
 Expected RT: 9.68 min
 Lab File: BF115063.D
 Acq: 15 Jun 2019 1:42

Tgt Ion: 164
 Sig Exp Ratio
 164 100
 162 103.3
 160 46.1

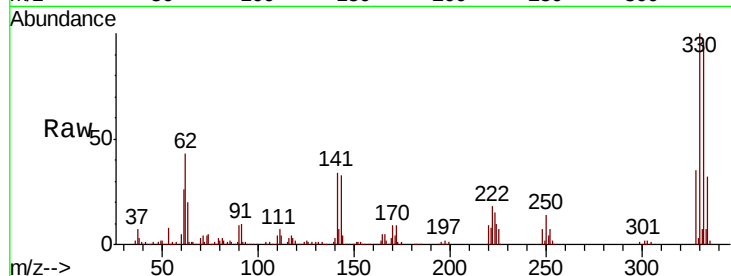




#42
 2,4,6-Tribromophenol
 Concen: 0.000 ng
 RT: 10.46 min Scan# 1423
 Delta R.T. -0.01 min
 Lab File: BF115063.D
 Acq: 15 Jun 2019 1:42

Instrument :
 BNA_F
 ClientSampleId :
 HD-01-061219

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.1	77.6	116.4
141	33.9	27.2	40.8

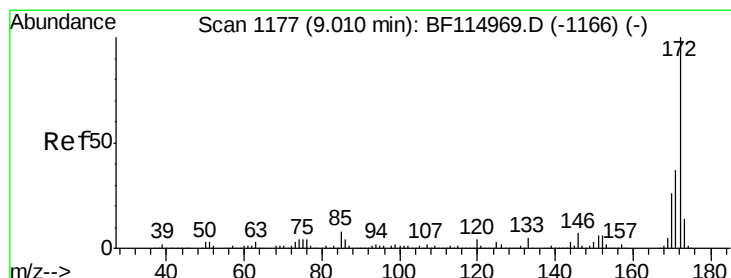
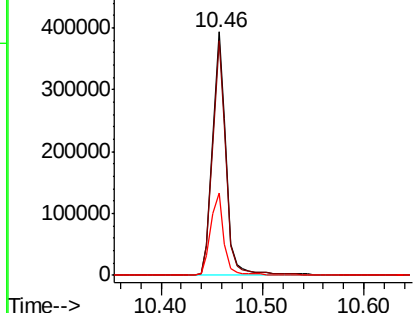
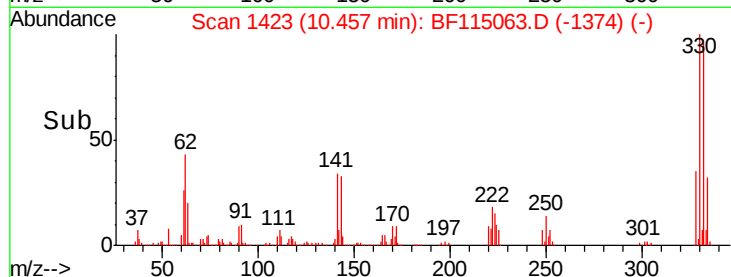


Abundance

Ion 329.80 (329.50 to 330.50): E

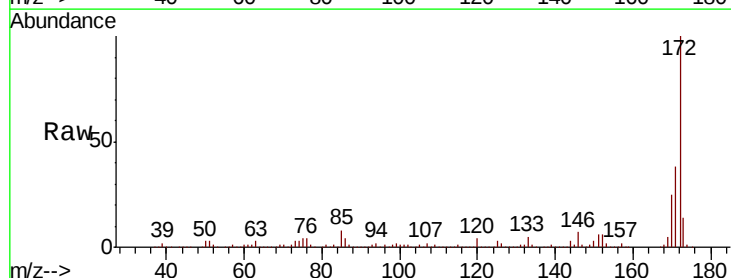
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 0.000 ng
 RT: 9.00 min Scan# 1176
 Delta R.T. -0.01 min
 Lab File: BF115063.D
 Acq: 15 Jun 2019 1:42

Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.6	29.8	44.6
170	25.5	20.6	31.0

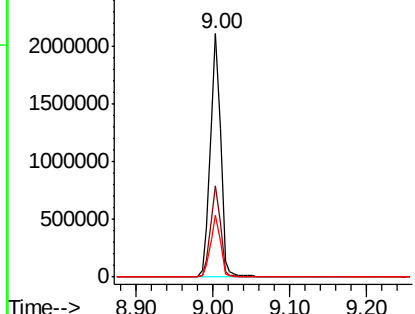
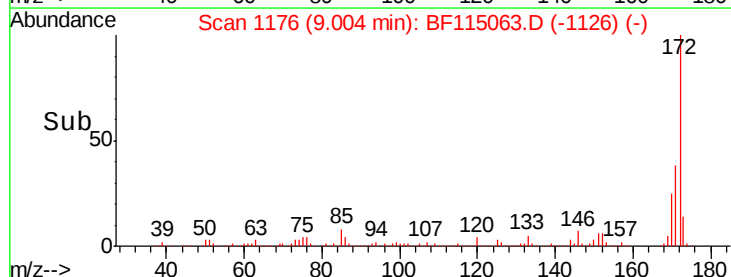


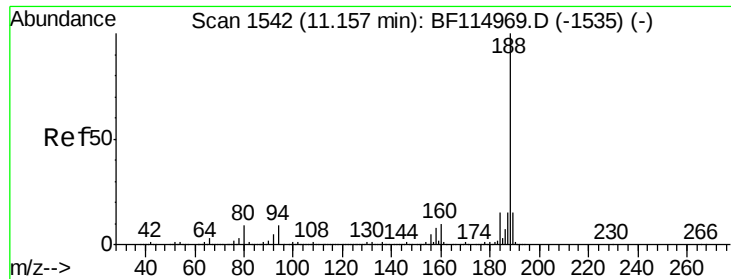
Abundance

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





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.20 min Scan# 1549

Delta R.T. 0.04 min

Lab File: BF115063.D

Acq: 15 Jun 2019 1:42

Instrument :

BNA_F

ClientSampleId :

HD-01-061219

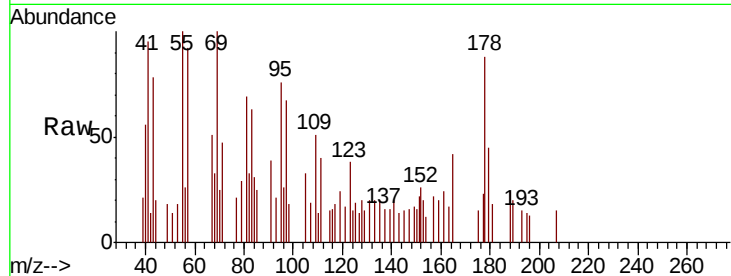
Tot Ion:188 Resp: 333

Ion Ratio Lower Upper

188 100

94 0.0 7.2 10.8#

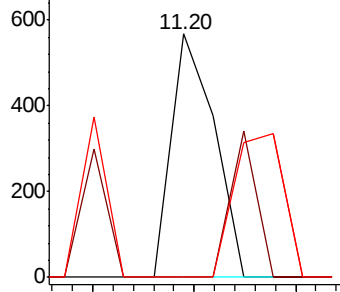
80 0.0 7.4 11.2#



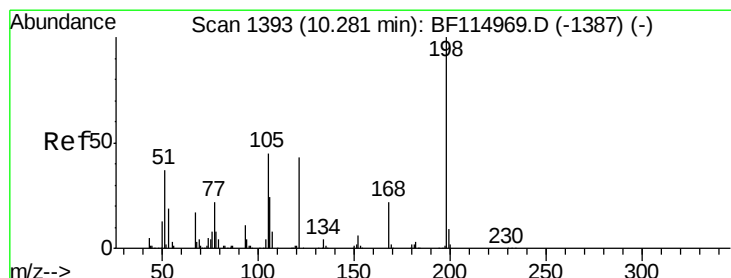
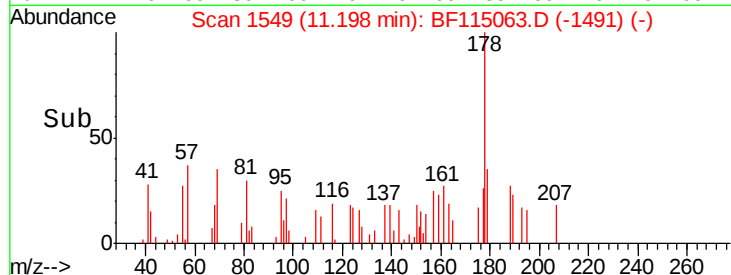
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



Time-->



#65

4,6-Dinitro-2-methylphenol

Concen: 407.734 ng

RT: 10.46 min Scan# 1423

Delta R.T. 0.18 min

Lab File: BF115063.D

Acq: 15 Jun 2019 1:42

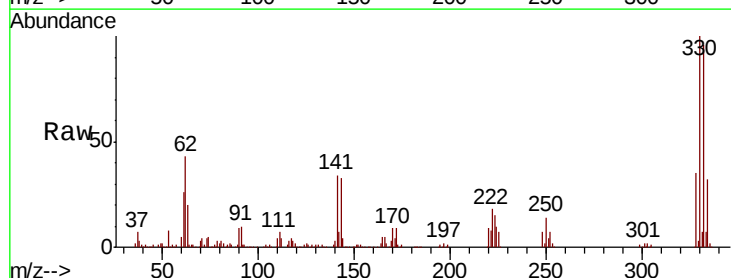
Tgt Ion:198 Resp: 761

Ion Ratio Lower Upper

198 100

51 150.5 23.0 63.0#

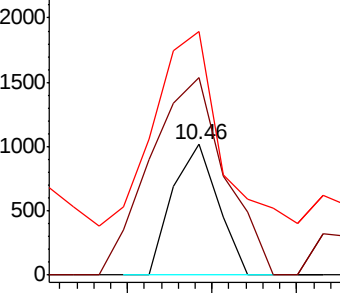
105 186.1 26.5 66.5#



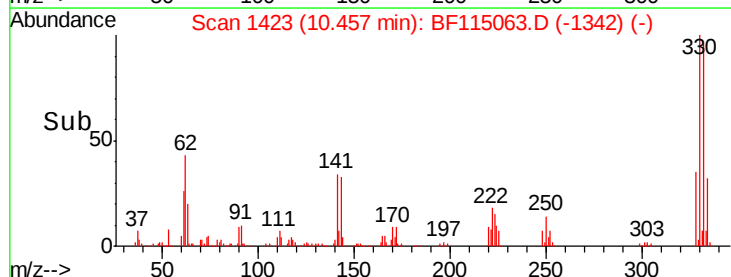
Abundance Ion 198.00 (197.70 to 198.70): E

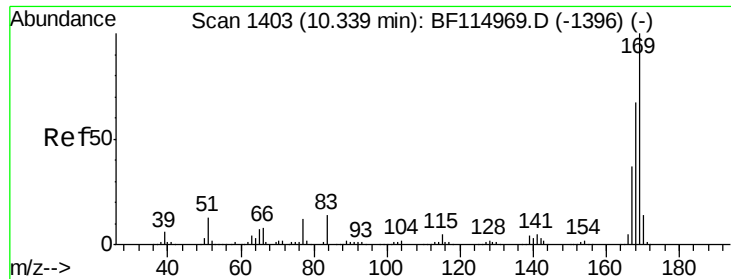
Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E



Time-->

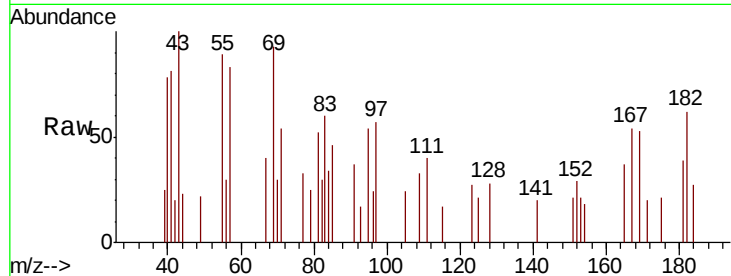




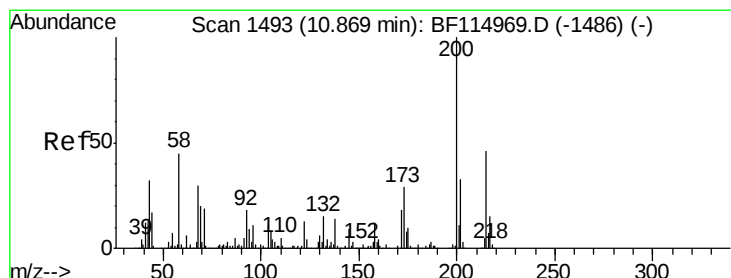
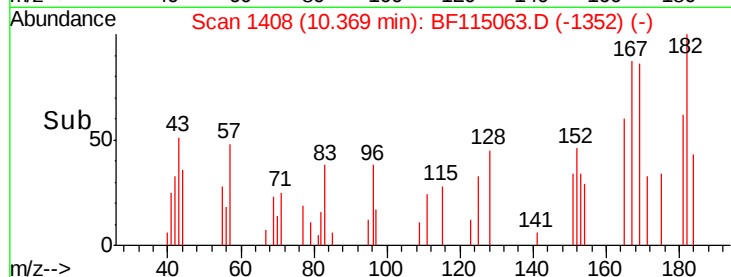
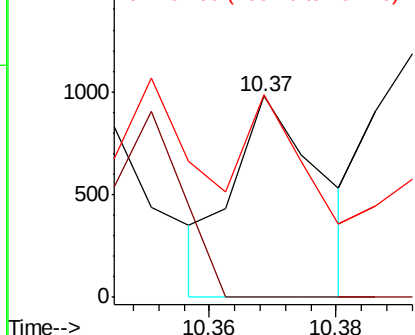
#66
n-Nitrosodiphenylamine
Concen: 93.330 ng
RT: 10.37 min Scan# 1408
Delta R.T. 0.03 min
Lab File: BF115063.D
Acq: 15 Jun 2019 1:42

Instrument :
BNA_F
ClientSampleId :
HD-01-061219

Tot Ion:169 Resp: 929
Ion Ratio Lower Upper
169 100
168 0.0 53.6 80.4#
167 100.8 29.6 44.4#

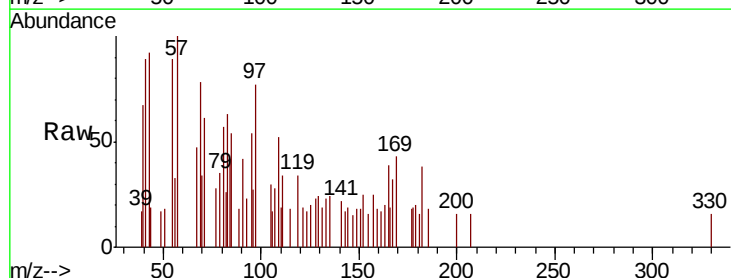


Abundance Ion 169.00 (168.70 to 169.70): E
Ion 168.00 (167.70 to 168.70): E
Ion 167.00 (166.70 to 167.70): E

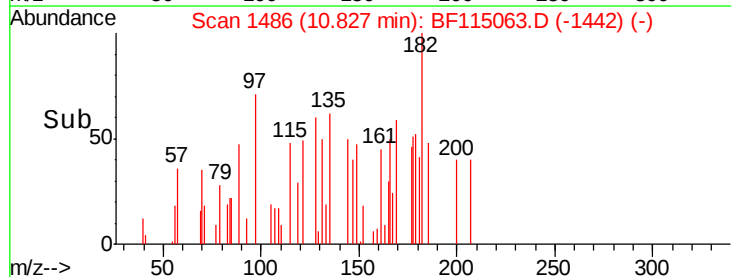
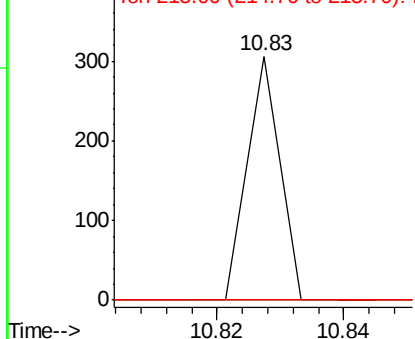


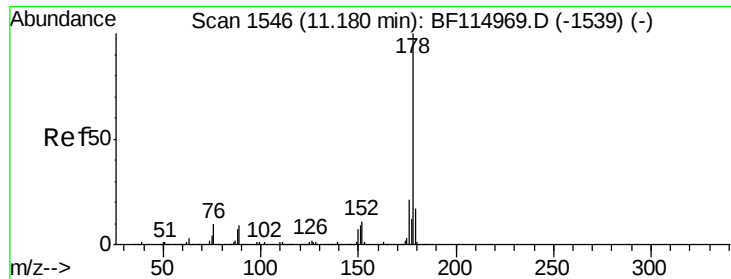
#69
Atrazine
Concen: 33.652 ng
RT: 10.83 min Scan# 1486
Delta R.T. -0.04 min
Lab File: BF115063.D
Acq: 15 Jun 2019 1:42

Tgt Ion:200 Resp: 108
Ion Ratio Lower Upper
200 100
173 0.0 9.0 49.0#
215 0.0 26.5 66.5#



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

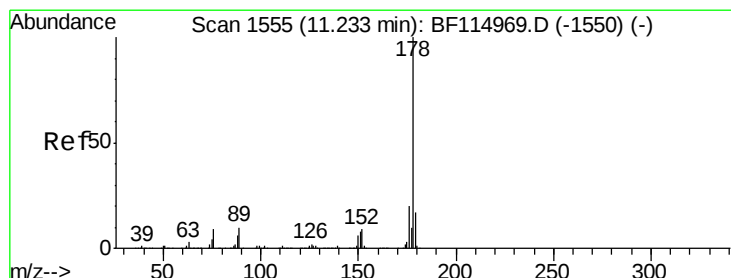
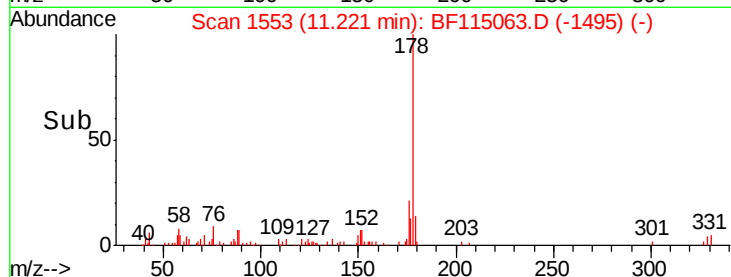
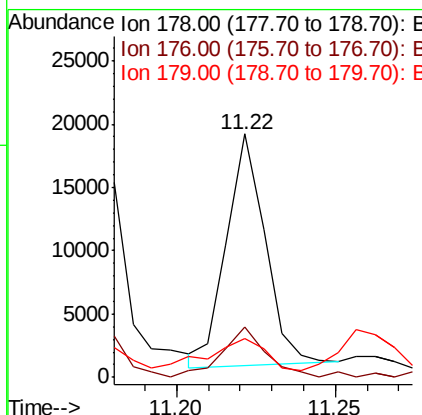
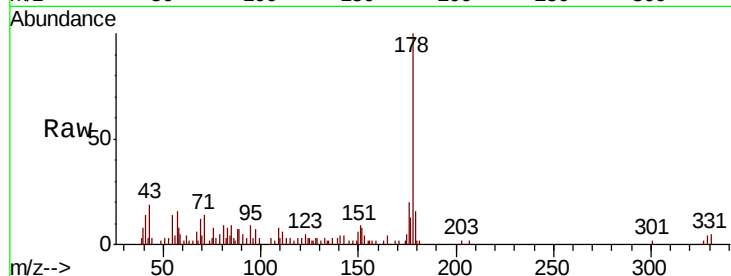




#71
Phenanthrene
Concen: 900.469 ng
RT: 11.22 min Scan# 1553
Delta R.T. 0.04 min
Lab File: BF115063.D
Acq: 15 Jun 2019 1:42

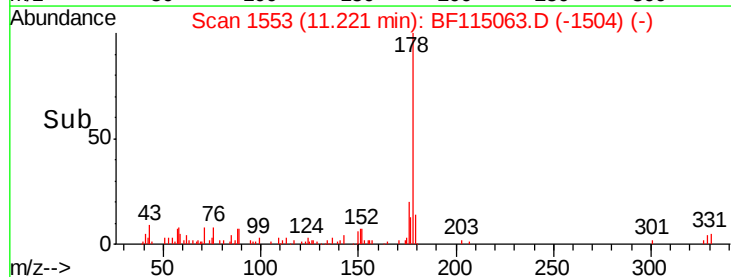
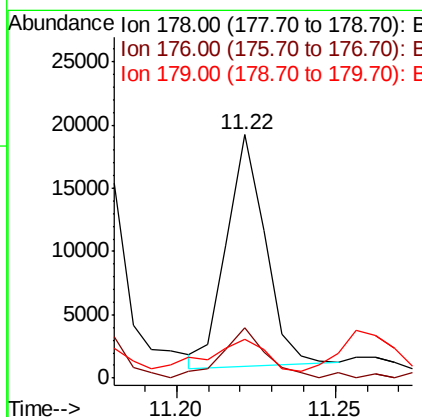
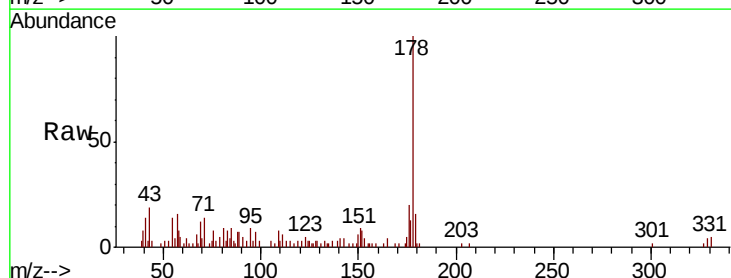
Instrument :
BNA_F
ClientSampleId :
HD-01-061219

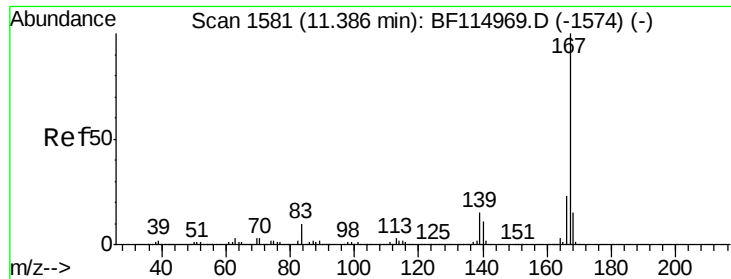
Tot Ion:178 Resp: 15482
Ion Ratio Lower Upper
178 100
176 20.5 16.9 25.3
179 15.8 13.4 20.0



#72
Anthracene
Concen: 892.583 ng
RT: 11.22 min Scan# 1553
Delta R.T. -0.01 min
Lab File: BF115063.D
Acq: 15 Jun 2019 1:42

Tgt Ion:178 Resp: 15482
Ion Ratio Lower Upper
178 100
176 20.5 16.2 24.4
179 15.8 13.2 19.8

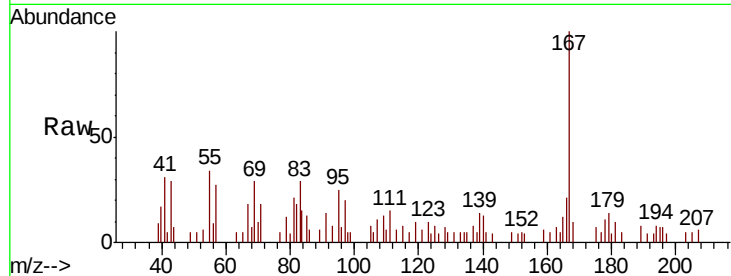




#73
 Carbazole
 Concen: 566.467 ng
 RT: 11.38 min Scan# 1580
 Delta R.T. -0.01 min
 Lab File: BF115063.D
 Acq: 15 Jun 2019 1:42

Instrument :
 BNA_F
 ClientSampleId :
 HD-01-061219

Tot Ion	Ratio	Lower	Upper
167	100		
166	20.8	18.5	27.7
139	14.3	12.0	18.0

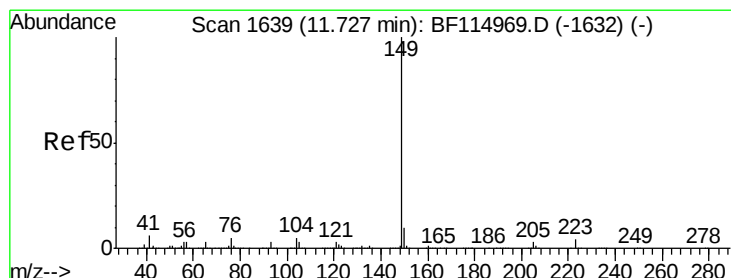
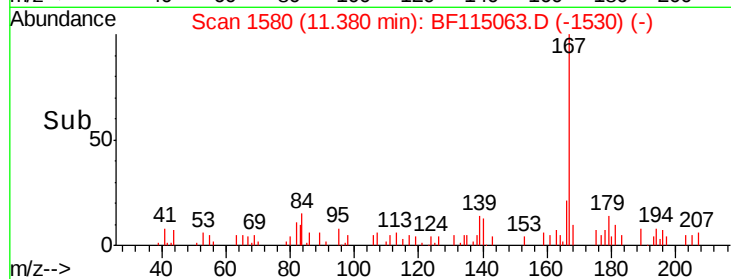
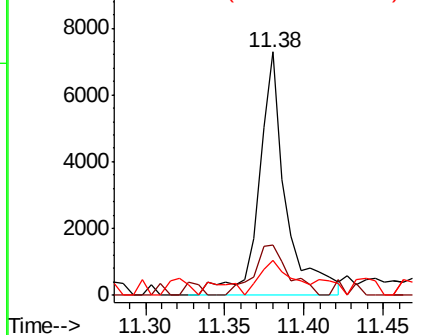


Abundance

Ion 167.00 (166.70 to 167.70): E

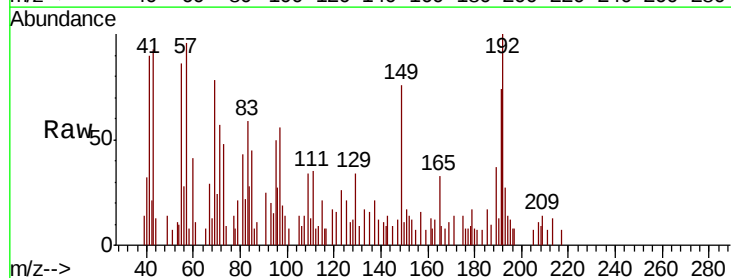
Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74
 Di-n-butylphthalate
 Concen: 166.142 ng
 RT: 11.72 min Scan# 1638
 Delta R.T. -0.01 min
 Lab File: BF115063.D
 Acq: 15 Jun 2019 1:42

Tgt Ion	Ratio	Lower	Upper
149	100		
150	15.0	8.1	12.1#
104	0.0	4.0	6.0#

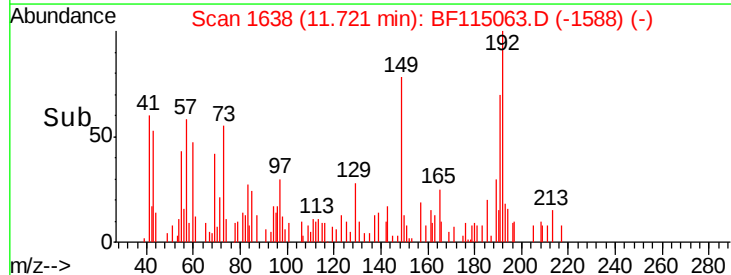
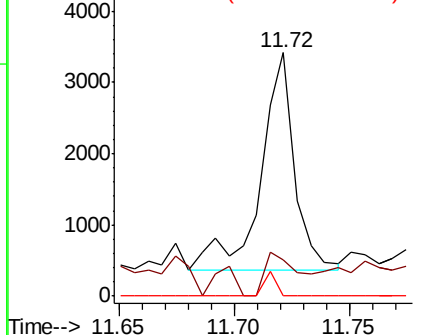


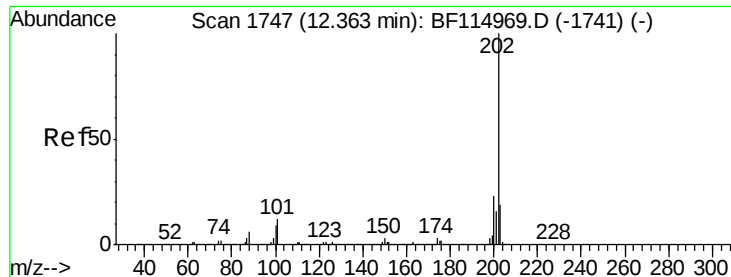
Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E





#75

Fluoranthene

Concen: 10600.015 ng

RT: 12.35 min Scan# 1745

Delta R.T. -0.01 min

Lab File: BF115063.D

Acq: 15 Jun 2019 1:42

Instrument :

BNA_F

ClientSampleId :

HD-01-061219

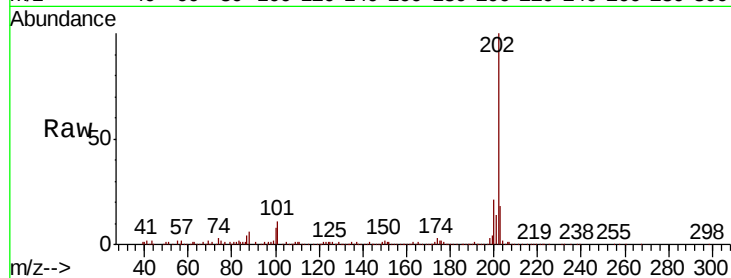
Tot Ion:202 Resp: 186358

Ion Ratio Lower Upper

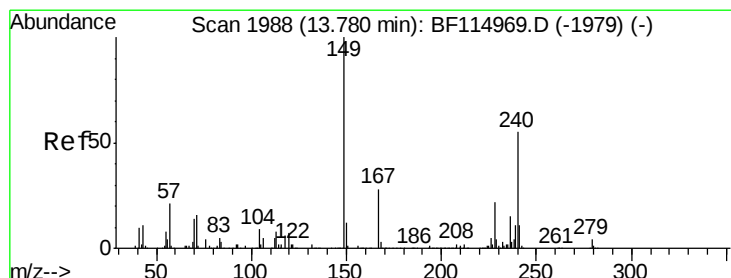
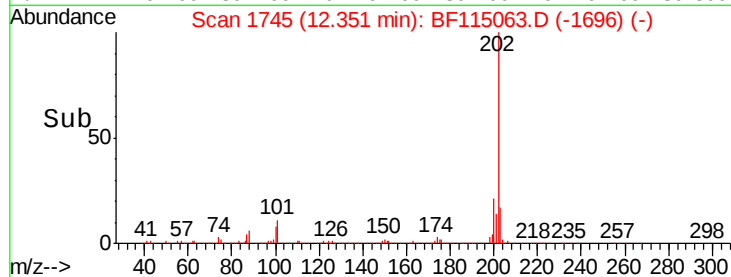
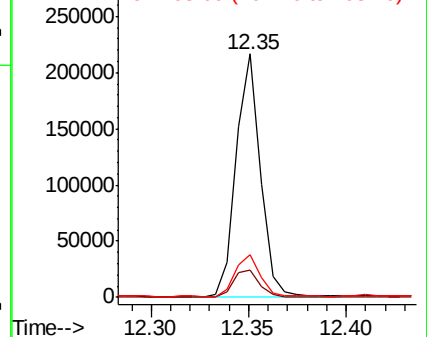
202 100

101 11.3 0.0 32.4

203 17.6 0.0 38.6



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: 13.83 min Scan# 1997

Delta R.T. 0.05 min

Lab File: BF115063.D

Acq: 15 Jun 2019 1:42

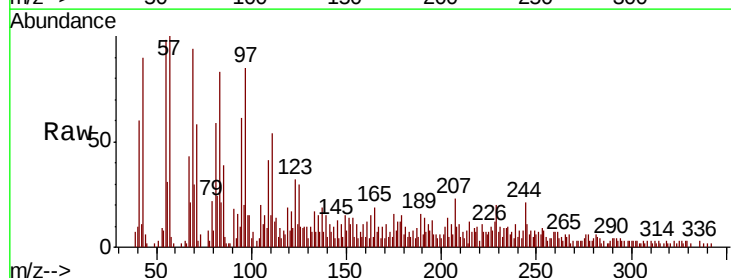
Tgt Ion:240 Resp: 295

Ion Ratio Lower Upper

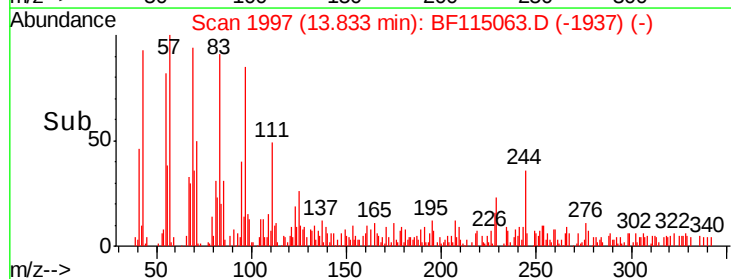
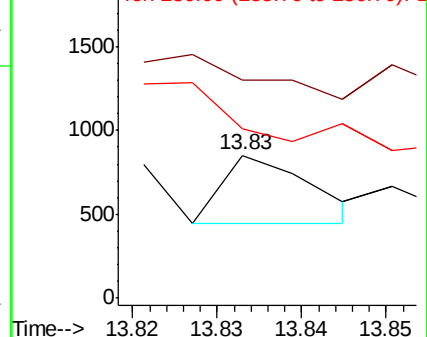
240 100

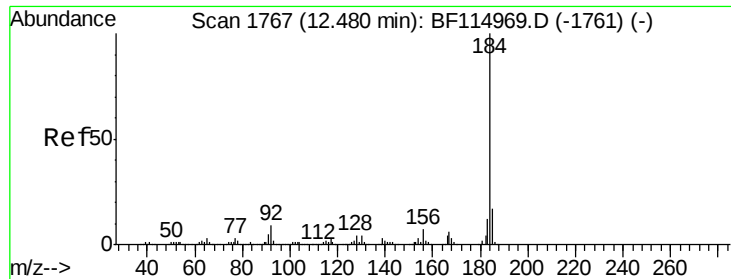
120 153.4 10.0 15.0#

236 118.9 21.6 32.4#



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





#77

Benzidine

Concen: 1612.966 ng

RT: 12.73 min Scan# 1809

Delta R.T. 0.25 min

Lab File: BF115063.D

Acq: 15 Jun 2019 1:42

Instrument :

BNA_F

ClientSampleId :

HD-01-061219

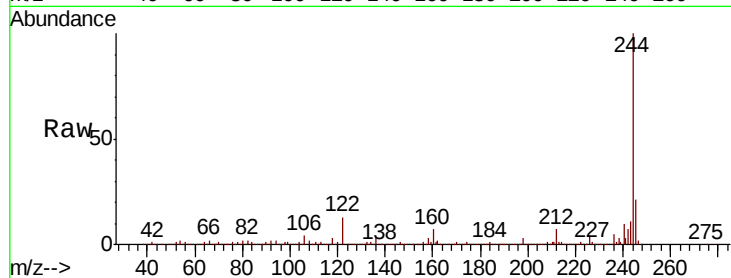
Tot Ion:184 Resp: 19246

Ion Ratio Lower Upper

184 100

185 19.5 13.4 20.0

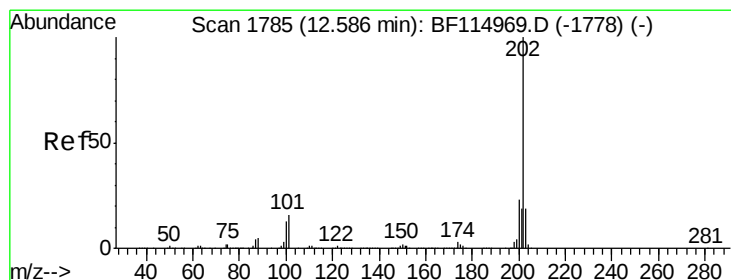
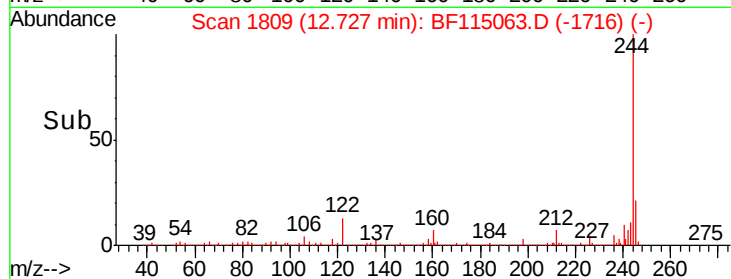
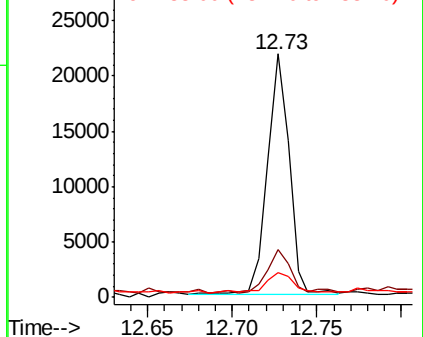
183 10.1 9.8 14.6



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Pyrene

Concen: 6264.096 ng

RT: 12.57 min Scan# 1783

Delta R.T. -0.01 min

Lab File: BF115063.D

Acq: 15 Jun 2019 1:42

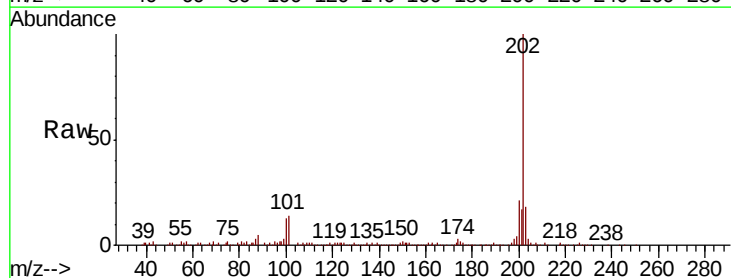
Tgt Ion:202 Resp: 168341

Ion Ratio Lower Upper

202 100

200 20.7 18.4 27.6

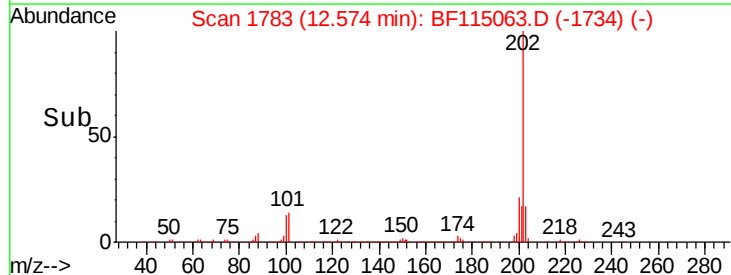
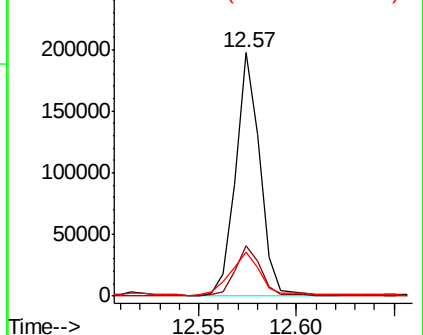
203 17.8 14.9 22.3

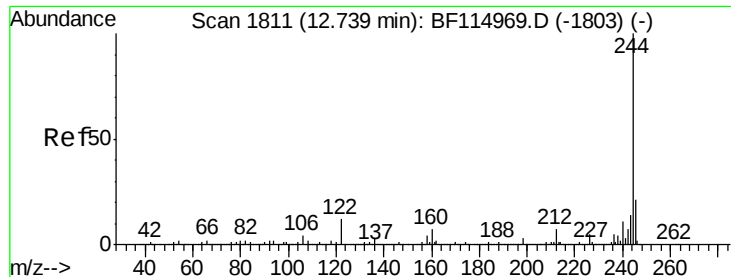


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 96970.570 ng

RT: 12.73 min Scan# 1809

Delta R.T. -0.01 min

Lab File: BF115063.D

Acq: 15 Jun 2019 1:42

Instrument :

BNA_F

ClientSampleId :

HD-01-061219

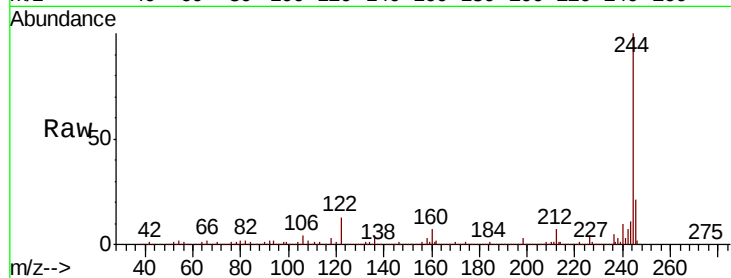
Tot Ion:244 Resp: 1520909

Ion Ratio Lower Upper

244 100

212 7.0 5.8 8.8

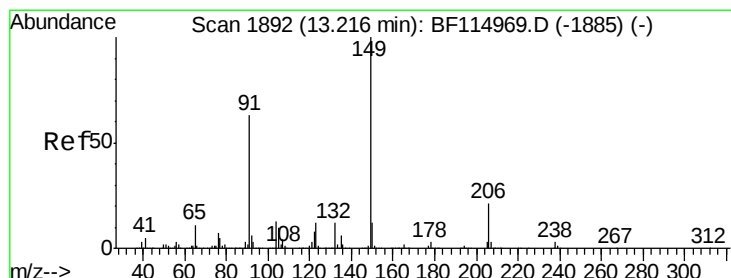
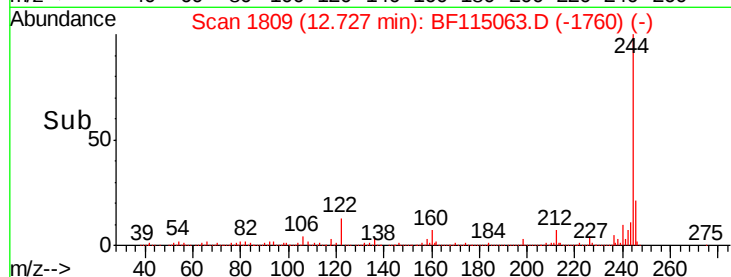
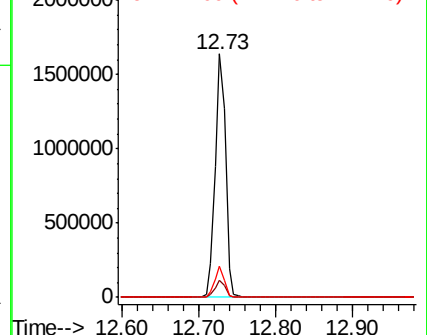
122 12.9 9.4 14.0



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: 20.952 ng

RT: 13.24 min Scan# 1897

Delta R.T. 0.03 min

Lab File: BF115063.D

Acq: 15 Jun 2019 1:42

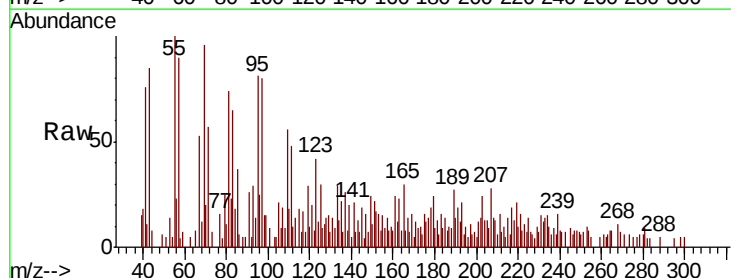
Tgt Ion:149 Resp: 263

Ion Ratio Lower Upper

149 100

91 107.5 50.6 76.0#

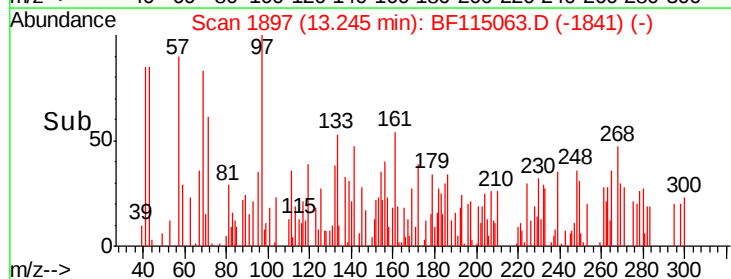
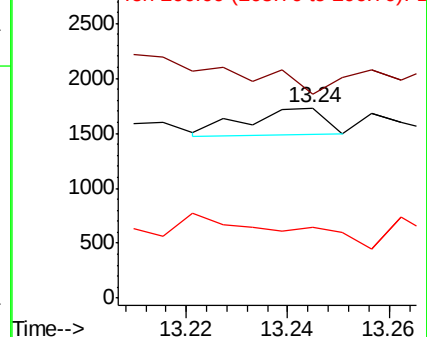
206 37.3 16.7 25.1#

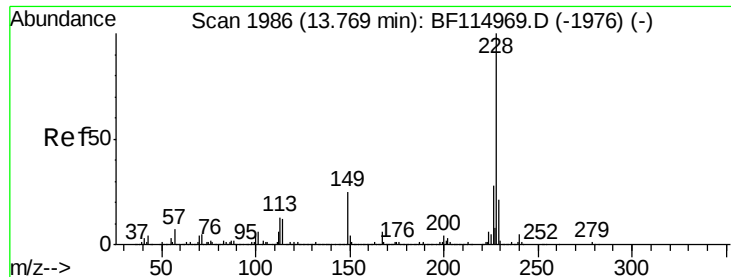


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF1

Ion 206.00 (205.70 to 206.70): E





#81

Benzo(a)anthracene

Concen: 5306.048 ng

RT: 13.79 min Scan# 1990

Delta R.T. 0.02 min

Lab File: BF115063.D

Acq: 15 Jun 2019 1:42

Instrument :

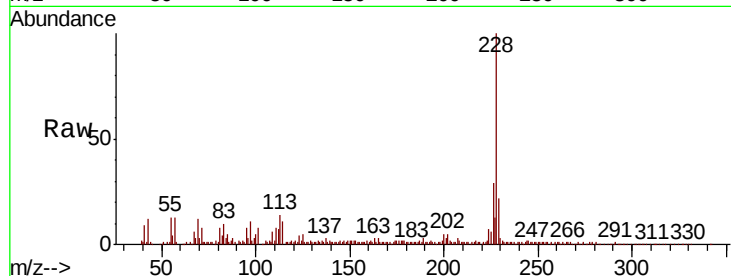
BNA_F

ClientSampleId :

HD-01-061219

Tot Ion:228 Resp: 117134

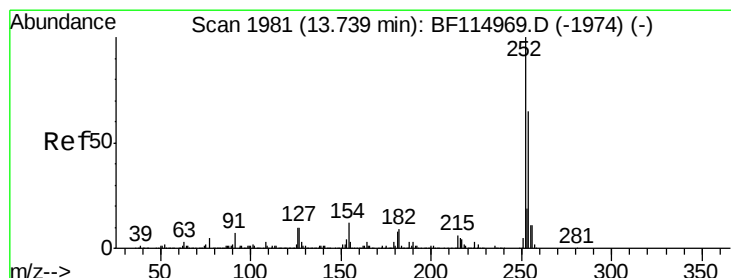
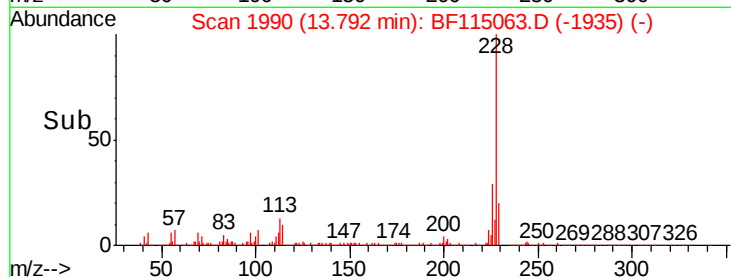
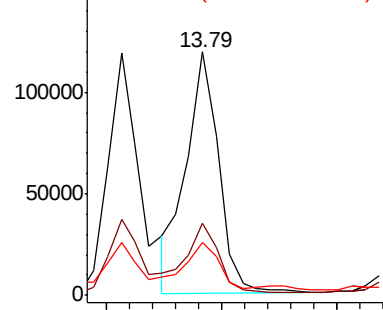
Ion	Ratio	Lower	Upper
228	100		
226	29.5	22.0	33.0
229	21.9	16.6	25.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

3,3'-Dichlorobenzidine

Concen: 182.550 ng

RT: 13.81 min Scan# 1993

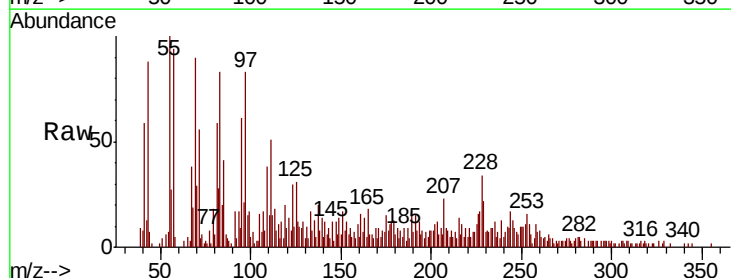
Delta R.T. 0.07 min

Lab File: BF115063.D

Acq: 15 Jun 2019 1:42

Tgt Ion:252 Resp: 1545

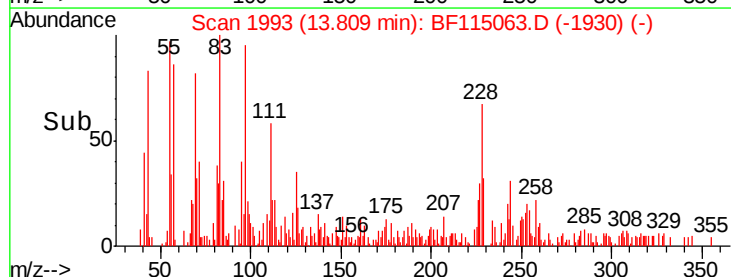
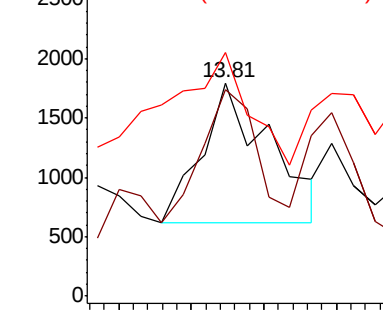
Ion	Ratio	Lower	Upper
252	100		
254	96.9	52.2	78.4#
126	114.3	8.0	12.0#

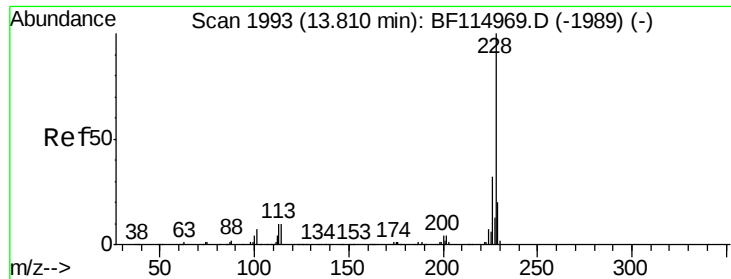


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#83

Chrysene

Concen: 5335.897 ng

RT: 13.79 min Scan# 1990

Delta R.T. -0.02 min

Lab File: BF115063.D

Acq: 15 Jun 2019 1:42

Instrument :

BNA_F

ClientSampleId :

HD-01-061219

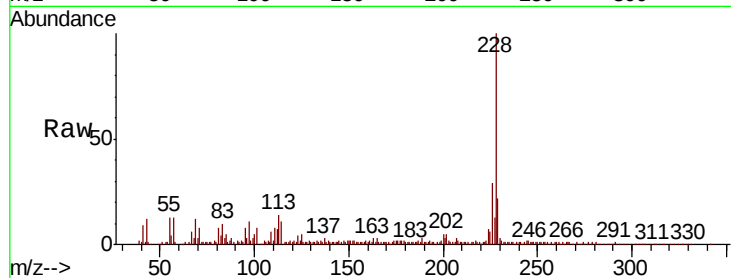
Tot Ion:228 Resp: 117134

Ion Ratio Lower Upper

228 100

226 29.5 25.4 38.0

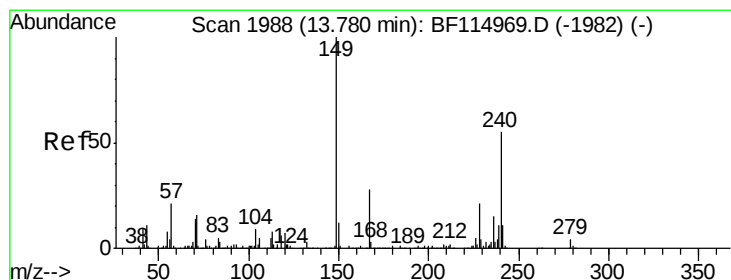
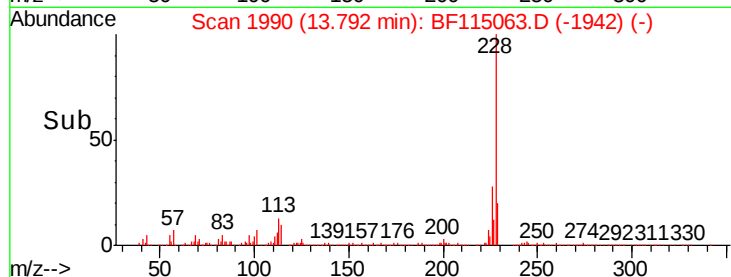
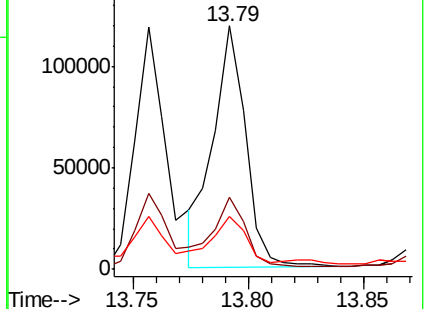
229 21.9 16.4 24.6



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



#84

Bis(2-ethylhexyl)phthalate

Concen: 47.319 ng

RT: 13.85 min Scan# 2000

Delta R.T. 0.07 min

Lab File: BF115063.D

Acq: 15 Jun 2019 1:42

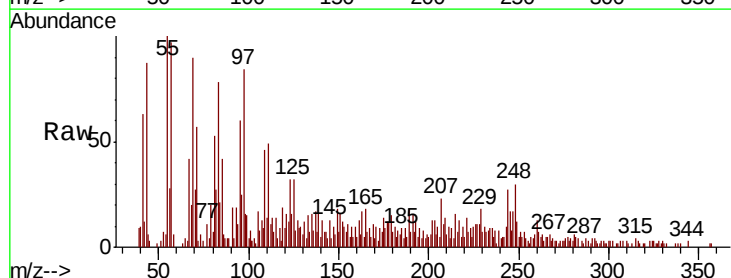
Tgt Ion:149 Resp: 702

Ion Ratio Lower Upper

149 100

167 46.9 22.2 33.4#

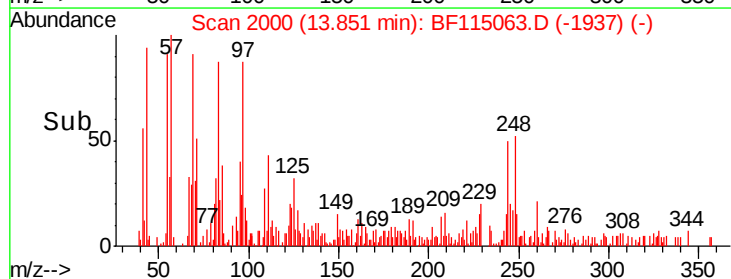
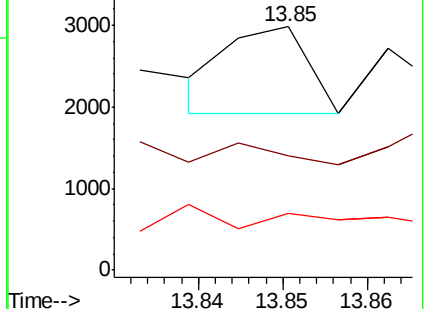
279 23.1 3.4 5.0#

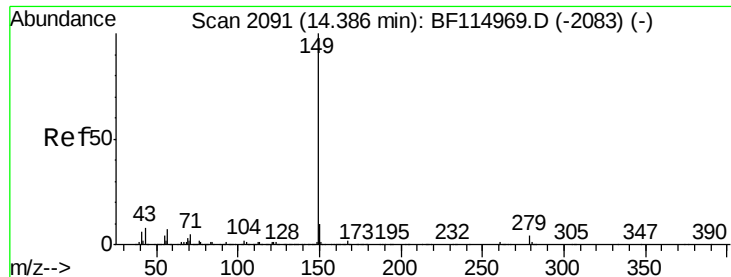


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#85

Di-n-octyl phthalate

Concen: 753.395 ng

RT: 14.42 min Scan# 2096

Delta R.T. 0.03 min

Lab File: BF115063.D

Acq: 15 Jun 2019 1:42

Instrument :

BNA_F

ClientSampleId :

HD-01-061219

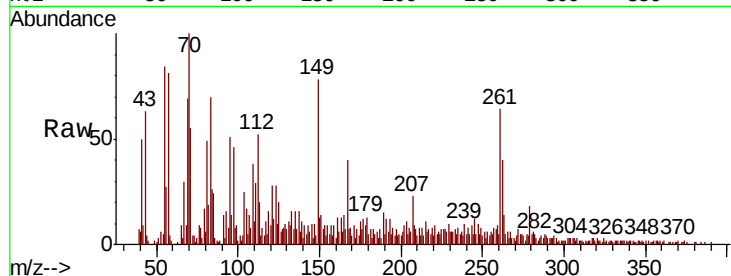
Tot Ion:149 Resp: 19247

Ion Ratio Lower Upper

149 100

167 44.1 1.3 1.9#

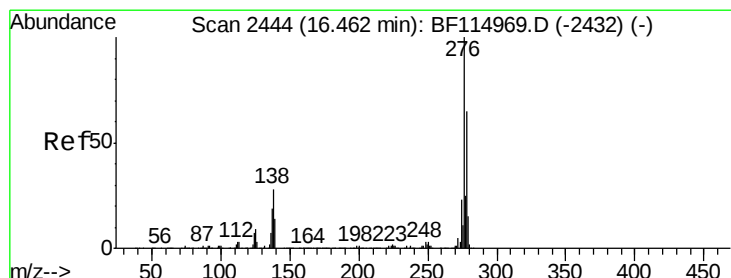
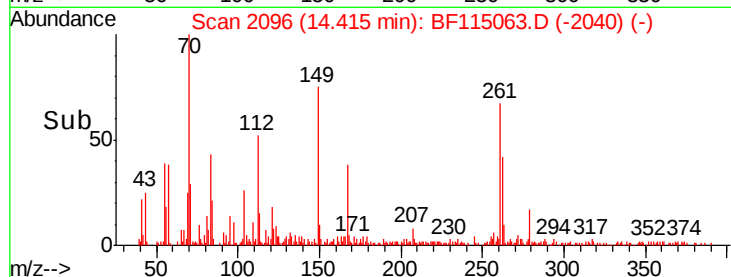
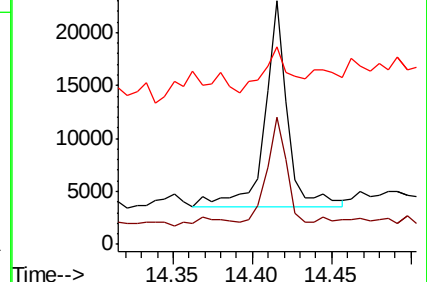
43 25.8 6.5 9.7#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF1



#86

Indeno(1,2,3-cd)pyrene

Concen: 2704.357 ng

RT: 16.45 min Scan# 2442

Delta R.T. -0.01 min

Lab File: BF115063.D

Acq: 15 Jun 2019 1:42

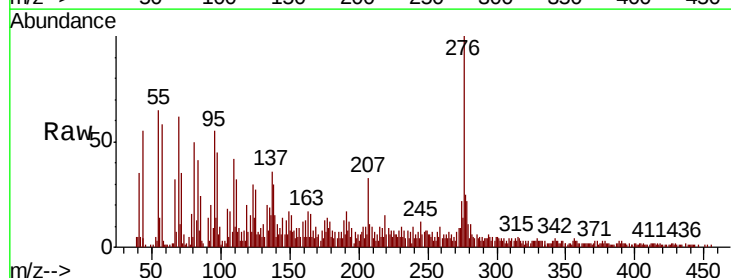
Tgt Ion:276 Resp: 52148

Ion Ratio Lower Upper

276 100

138 25.4 23.0 34.4

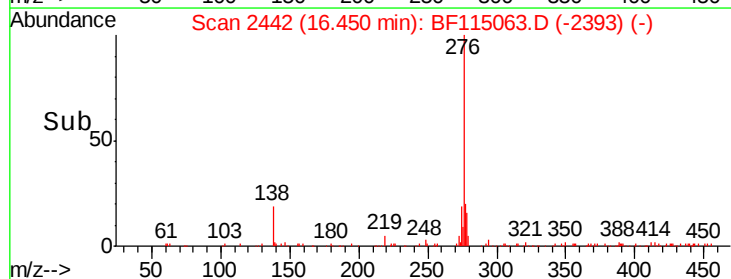
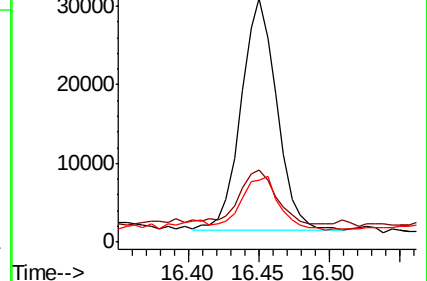
277 24.8 20.6 30.8

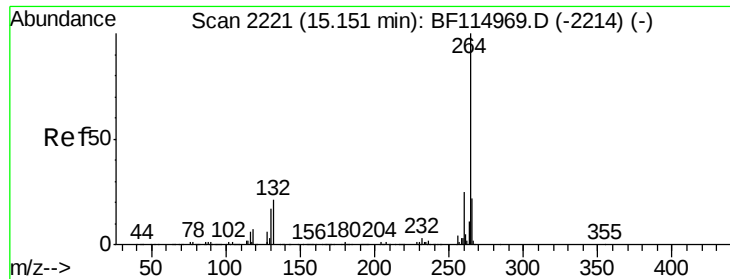


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

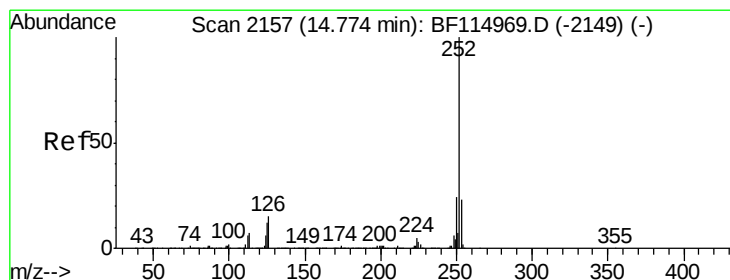
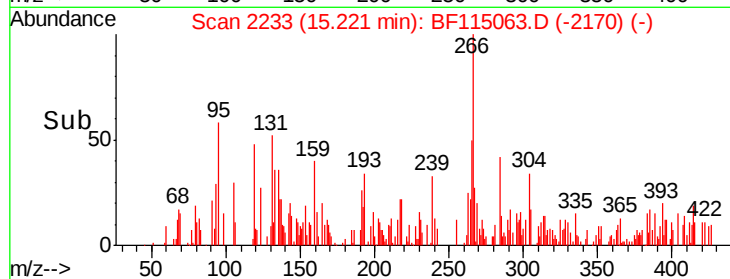
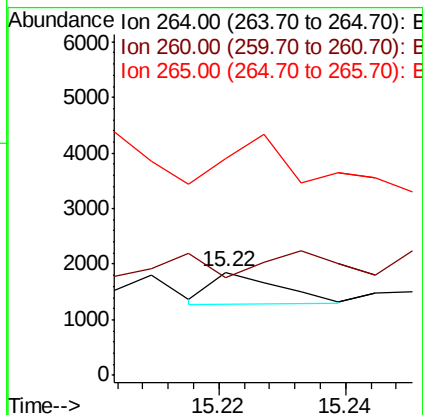
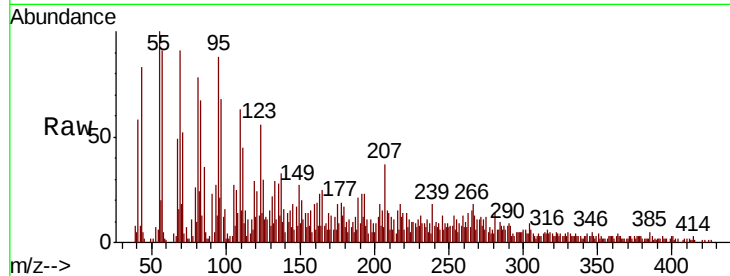




#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.22 min Scan# 2233
Delta R.T. 0.07 min
Lab File: BF115063.D
Acq: 15 Jun 2019 1:42

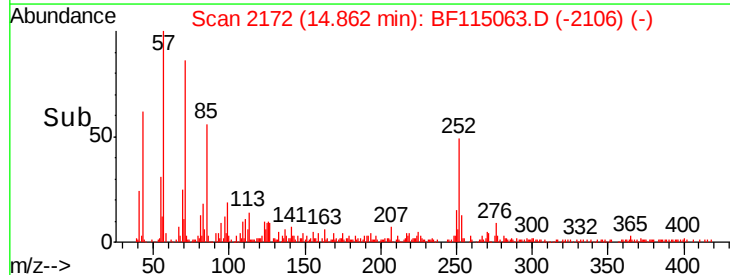
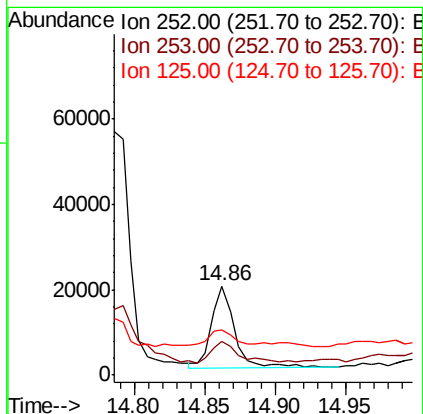
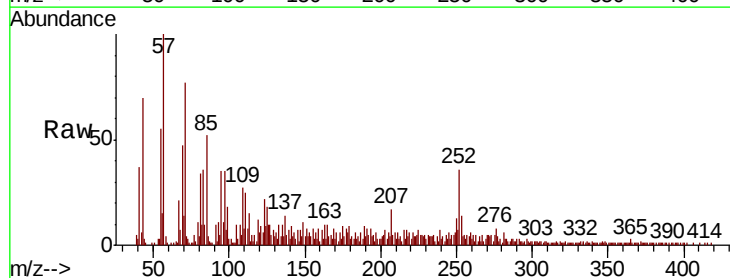
Instrument :
BNA_F
ClientSampleId :
HD-01-061219

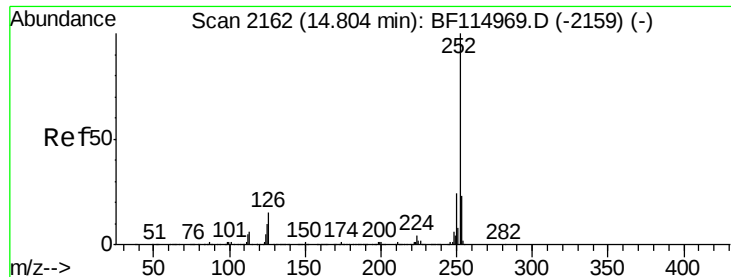
Tot Ion:264 Resp: 428
Ion Ratio Lower Upper
264 100
260 94.8 19.9 29.9#
265 209.2 17.6 26.4#



#88
Benzo(b)fluoranthene
Concen: 766.135 ng
RT: 14.86 min Scan# 2172
Delta R.T. 0.09 min
Lab File: BF115063.D
Acq: 15 Jun 2019 1:42

Tgt Ion:252 Resp: 21798
Ion Ratio Lower Upper
252 100
253 37.7 18.1 27.1#
125 50.3 9.4 14.0#

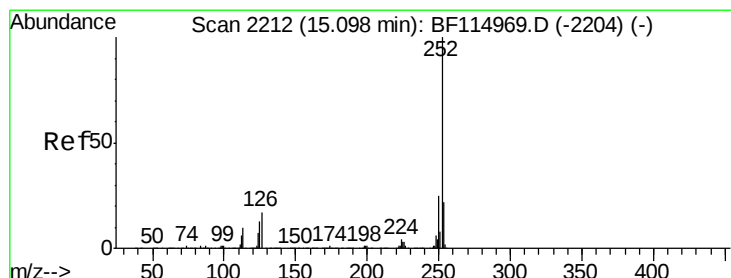
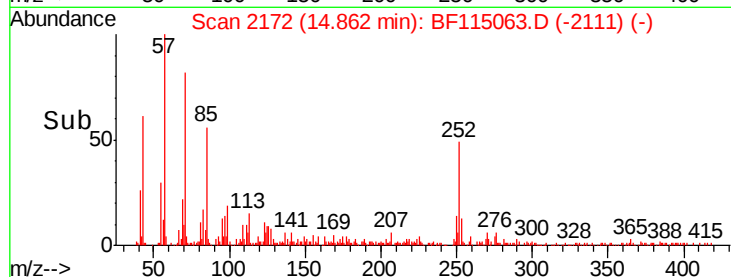
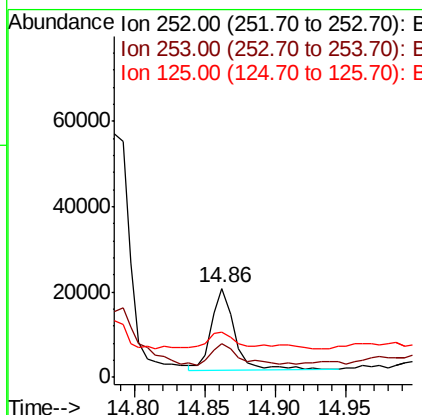
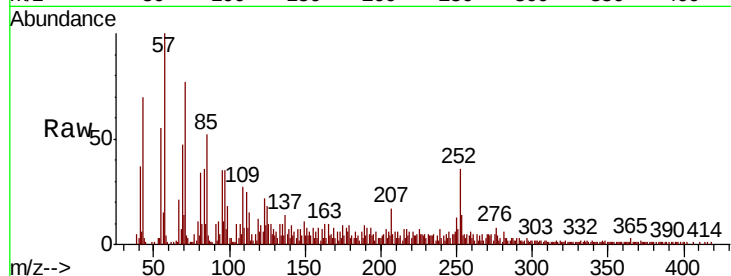




#89
Benzo(k)fluoranthene
Concen: 872.852 ng
RT: 14.86 min Scan# 2172
Delta R.T. 0.06 min
Lab File: BF115063.D
Acq: 15 Jun 2019 1:42

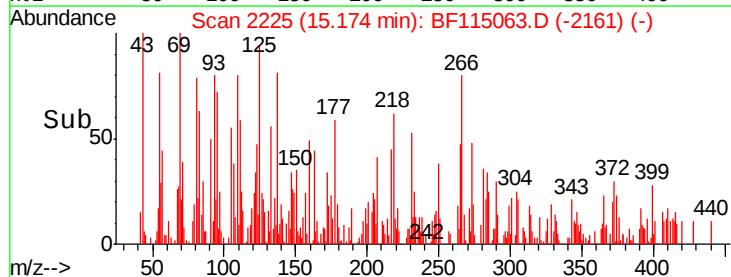
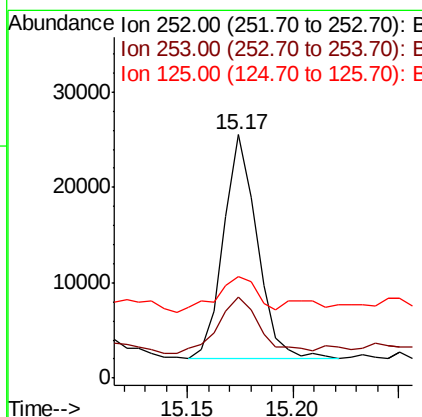
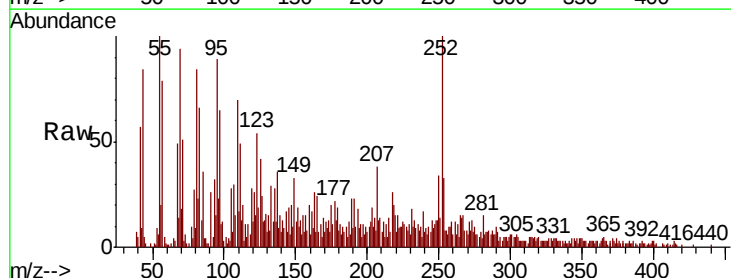
Instrument :
BNA_F
ClientSampleId :
HD-01-061219

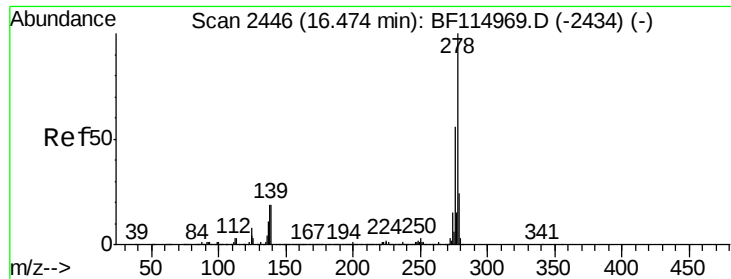
Tot Ion	Ratio	Lower	Upper
252	100		
253	37.7	18.0	27.0#
125	50.3	8.2	12.4#



#90
Benzo(a)pyrene
Concen: 1061.666 ng
RT: 15.17 min Scan# 2225
Delta R.T. 0.08 min
Lab File: BF115063.D
Acq: 15 Jun 2019 1:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	33.0	17.8	26.8#
125	41.6	10.7	16.1#





#91

Dibenzo(a,h)anthracene

Concen: 197.842 ng

RT: 16.52 min Scan# 2454

Delta R.T. 0.05 min

Lab File: BF115063.D

Acq: 15 Jun 2019 1:42

Instrument :

BNA_F

ClientSampleId :

HD-01-061219

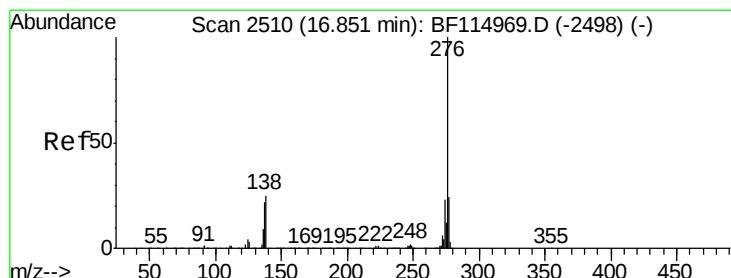
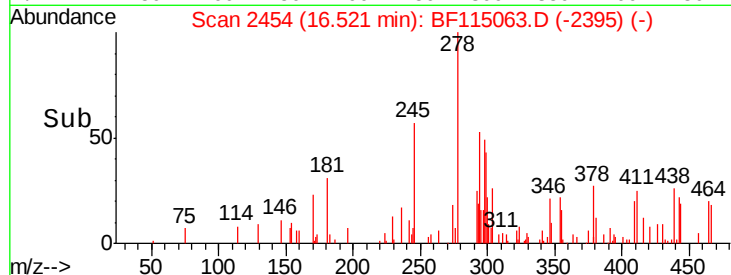
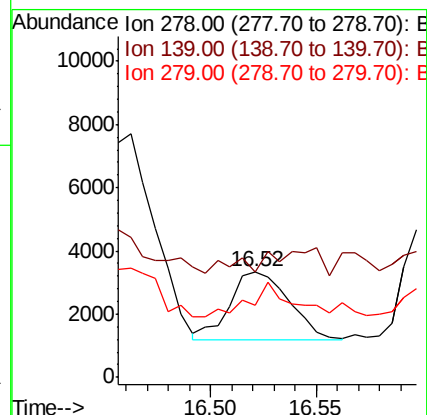
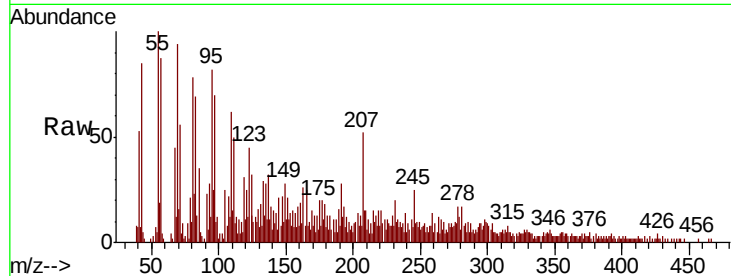
Tot Ion:278 Resp: 4183

Ion Ratio Lower Upper

278 100

139 99.4 15.3 22.9#

279 67.9 19.2 28.8#



#92

Benzo(g,h,i)perylene

Concen: 2456.413 ng

RT: 16.84 min Scan# 2508

Delta R.T. -0.01 min

Lab File: BF115063.D

Acq: 15 Jun 2019 1:42

Tgt Ion:276 Resp: 52967

Ion Ratio Lower Upper

276 100

277 28.2 18.8 28.2#

138 32.1 20.2 30.4#

