

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082519\
 Data File : BF116539.D
 Acq On : 25 Aug 2019 18:30
 Operator : HP/JU
 Sample : K4385-10RE
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 26 06:29:43 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF082319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 23 13:38:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	126131	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	453296	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	188821	20.00	ng	0.00
64) Phenanthrene-d10	11.41	188	225292	20.00	ng	0.01
76) Chrysene-d12	14.06	240	165683	20.00	ng	0.02
87) Perylene-d12	15.56	264	146471	20.00	ng	0.05

System Monitoring Compounds

5) 2-Fluorophenol	5.51	112	699537	81.04	ng	0.01
7) Phenol-d6	6.51	99	924060	87.30	ng	0.00
23) Nitrobenzene-d5	7.44	82	558507	67.41	ng	0.00
42) 2,4,6-Tribromophenol	10.71	330	136107	83.95	ng	0.01
45) 2-Fluorobiphenyl	9.24	172	880366	75.08	ng	0.00
79) Terphenyl-d14	13.00	244	568671	64.11	ng	0.02

Target Compounds

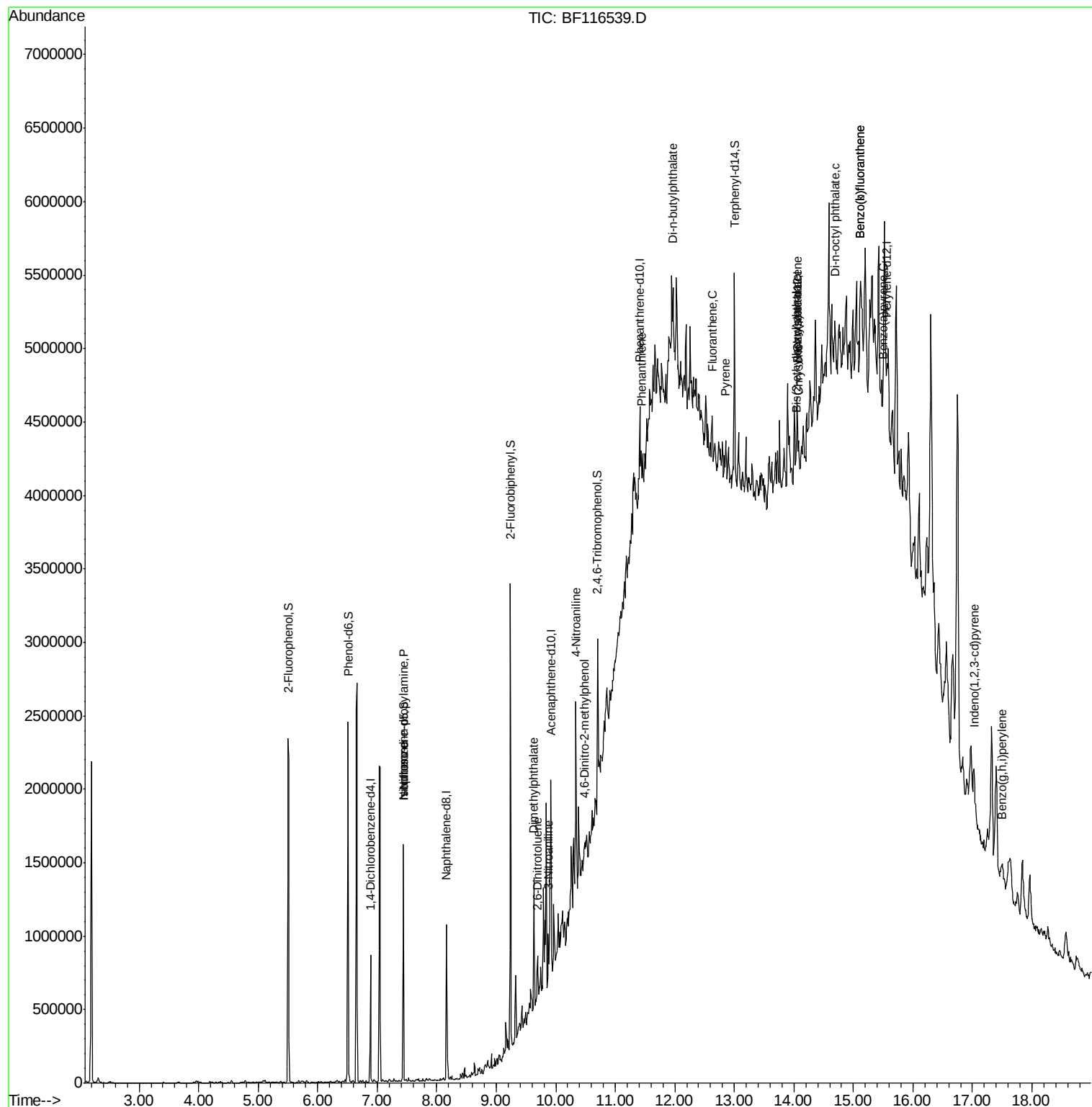
						Qvalue
19) n-Nitroso-di-n-propylamine	7.44	70	77268	10.698	ng	# 79
25) Isophorone	7.44	82	556019	34.054	ng	# 67
50) Dimethylphthalate	9.63	163	62620	4.753	ng	# 88
51) 2,6-Dinitrotoluene	9.70	165	5624	2.086	ng	# 29
53) 3-Nitroaniline	9.87	138	11044	3.436	ng	# 14
62) 4-Nitroaniline	10.34	138	14405	4.582	ng	# 85
65) 4,6-Dinitro-2-methylphenol	10.49	198	1477	8.371	ng	# 1
71) Phenanthrene	11.43	178	50041	4.077	ng	# 59
74) Di-n-butylphthalate	11.97	149	49933	3.640	ng	# 49
75) Fluoranthene	12.63	202	106813	8.418	ng	# 83
78) Pyrene	12.86	202	109514	8.265	ng	# 84
81) Benzo(a)anthracene	14.04	228	55297	5.153	ng	# 81
83) Chrysene	14.08	228	48176	4.429	ng	# 81
84) Bis(2-ethylhexyl)phthalate	14.03	149	23874	3.129	ng	# 88
85) Di-n-octyl phthalate	14.69	149	32412	2.502	ng	# 47
86) Indeno(1,2,3-cd)pyrene	17.04	276	30136	3.235	ng	# 92
88) Benzo(b)fluoranthene	15.11	252	81359	8.992	ng	# 1
89) Benzo(k)fluoranthene	15.11	252	81359	9.925	ng	# 1
90) Benzo(a)pyrene	15.49	252	41622	5.205	ng	# 1
92) Benzo(a,h,i)perylene	17.49	276	30514	4.871	ng	# 73

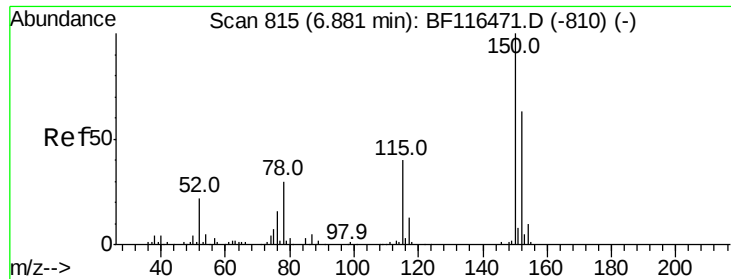
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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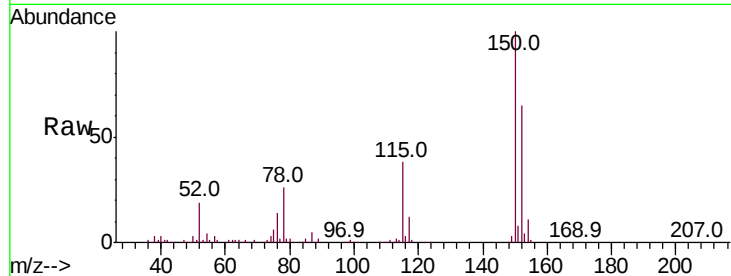


#1

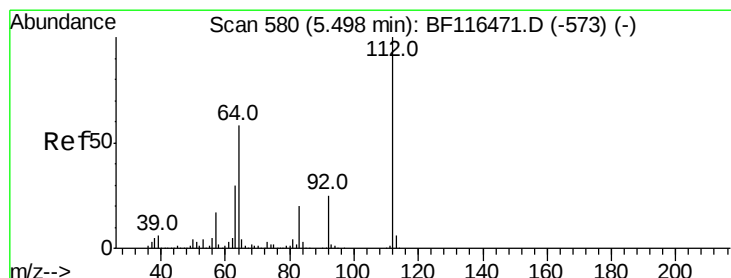
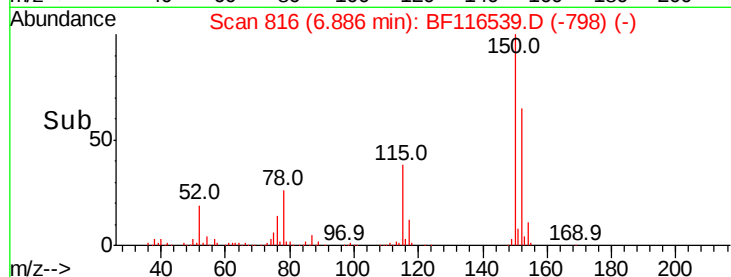
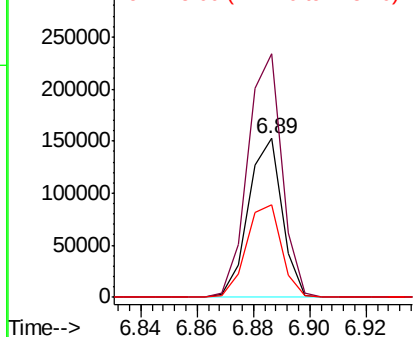
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.89 min Scan# 816
Delta R.T. 0.01 min
Lab File: BF116539.D
Acq: 25 Aug 2019 18:30

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.1	126.7	190.1
115	57.9	50.9	76.3



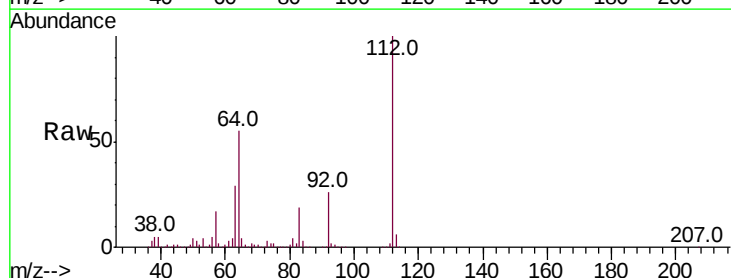
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



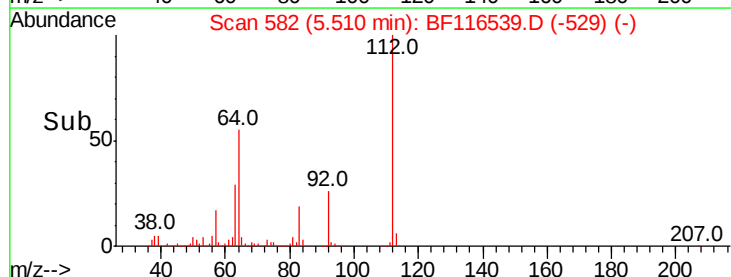
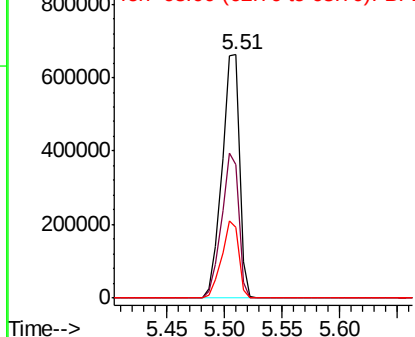
#5

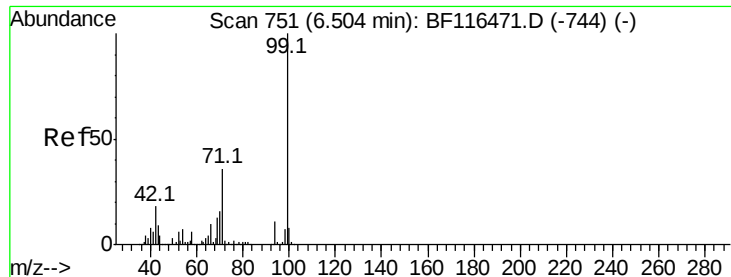
2-Fluorophenol
Concen: 81.037 ng
RT: 5.51 min Scan# 582
Delta R.T. 0.01 min
Lab File: BF116539.D
Acq: 25 Aug 2019 18:30

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.0	46.3	69.5
63	29.3	24.2	36.4



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: 87.303 ng

RT: 6.51 min Scan# 752

Delta R.T. 0.01 min

Lab File: BF116539.D

Acq: 25 Aug 2019 18:30

Instrument :

BNA_F

ClientSampled :

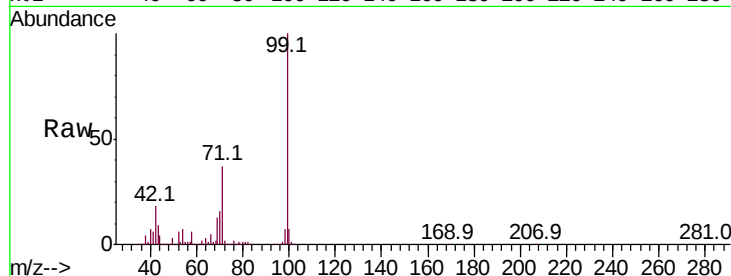
Tot Ion: 99 Resp: 924060

Ion Ratio Lower Upper

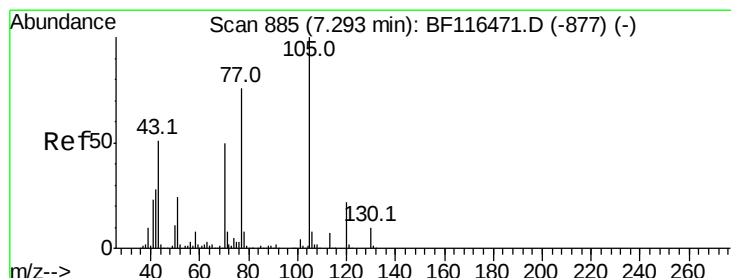
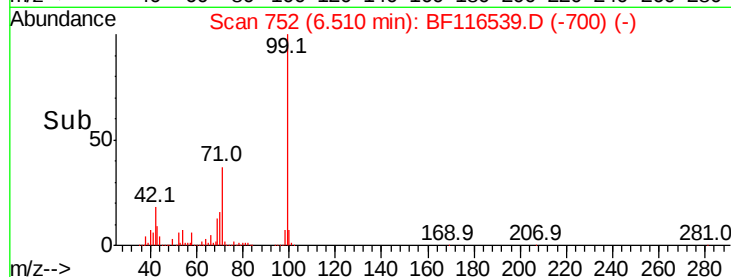
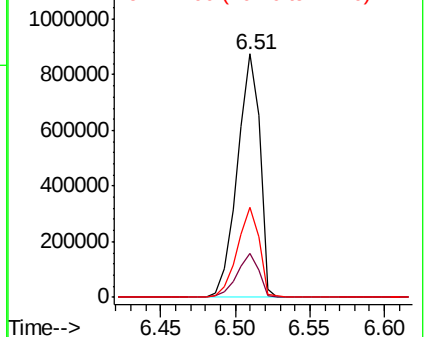
99 100

42 18.2 14.6 21.8

71 36.7 28.5 42.7



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 10.698 ng

RT: 7.44 min Scan# 910

Delta R.T. 0.15 min

Lab File: BF116539.D

Acq: 25 Aug 2019 18:30

Tgt Ion: 70 Resp: 77268

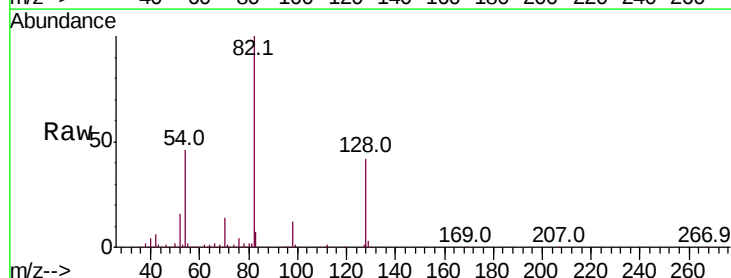
Ion Ratio Lower Upper

70 100

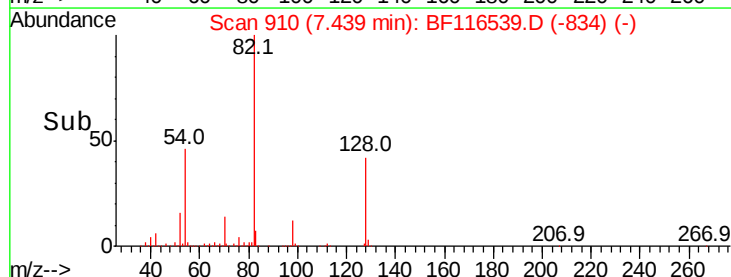
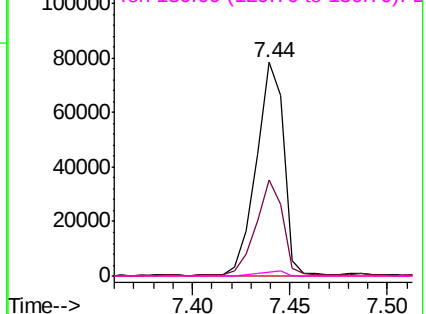
42 45.1 44.4 66.6

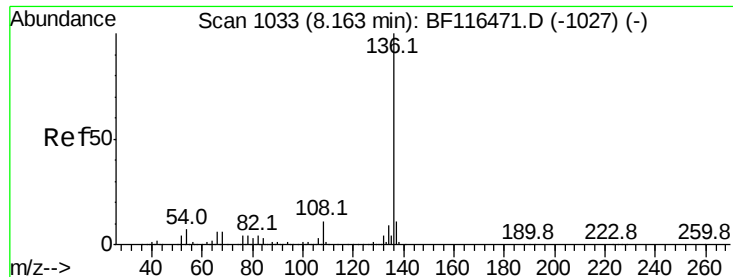
101 0.0 7.1 10.7#

130 1.8 15.8 23.8#



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: 8.16 min Scan# 1033

Delta R.T. -0.00 min

Lab File: BF116539.D

Acq: 25 Aug 2019 18:30

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 453296

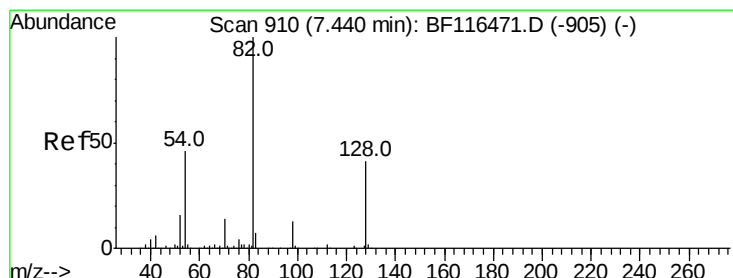
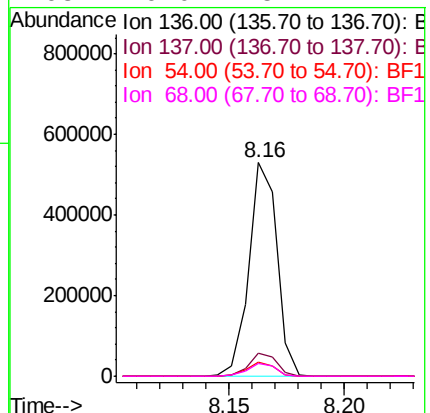
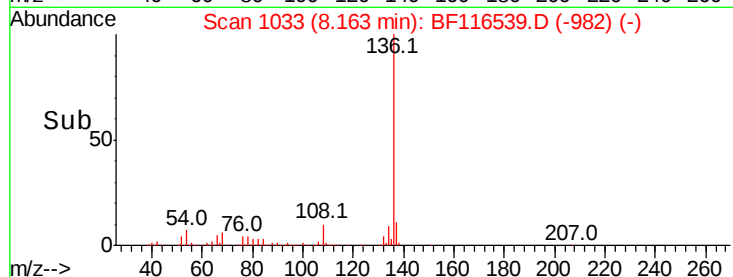
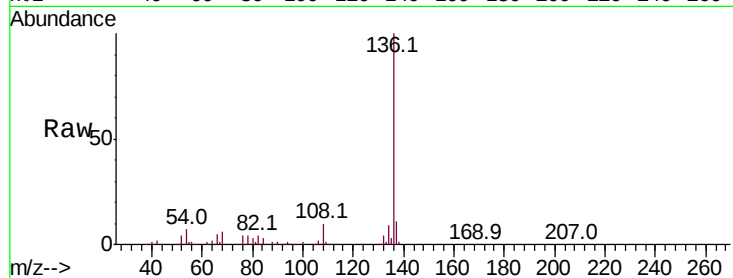
Ion Ratio Lower Upper

136 100

137 11.0 9.0 13.4

54 6.9 5.8 8.6

68 6.0 5.1 7.7



#23

Nitrobenzene-d5

Concen: 67.408 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.00 min

Lab File: BF116539.D

Acq: 25 Aug 2019 18:30

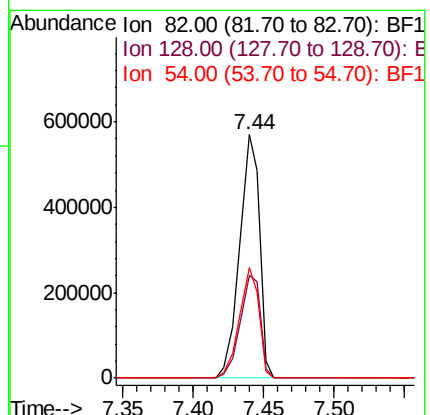
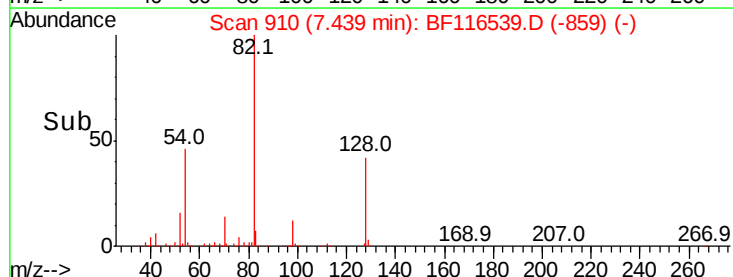
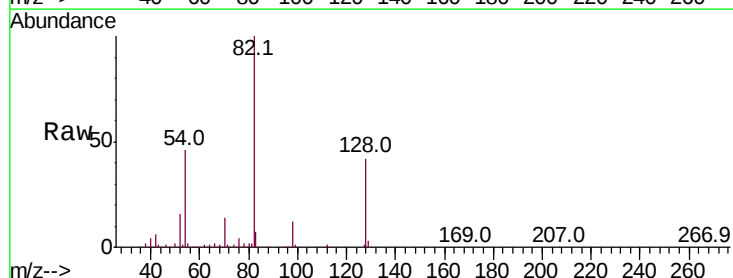
Tgt Ion: 82 Resp: 558507

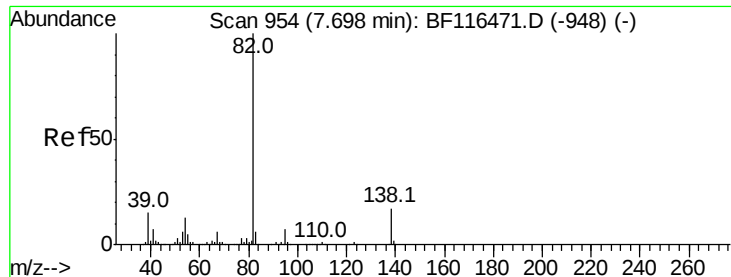
Ion Ratio Lower Upper

82 100

128 42.3 32.2 48.4

54 45.5 36.5 54.7





#25

Isophorone

Concen: 34.054 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.26 min

Lab File: BF116539.D

Acq: 25 Aug 2019 18:30

Instrument :

BNA_F

ClientSampleId :

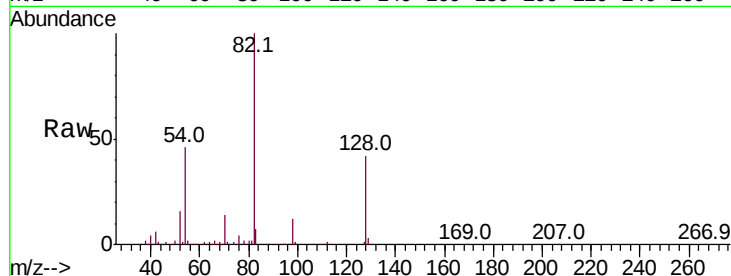
Tot Ion: 82 Resp: 556019

Ion Ratio Lower Upper

82 100

95 0.1 5.3 7.9#

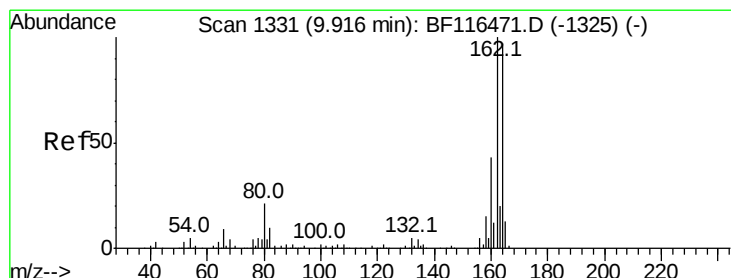
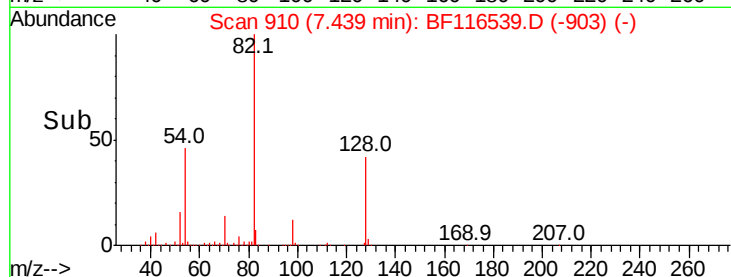
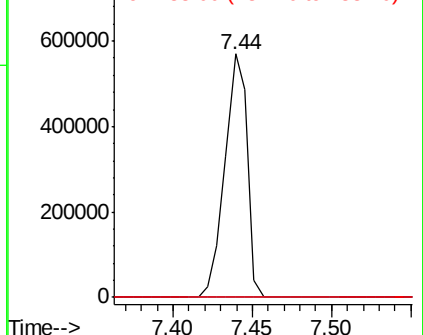
138 0.0 13.3 19.9#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.92 min Scan# 1331

Delta R.T. -0.00 min

Lab File: BF116539.D

Acq: 25 Aug 2019 18:30

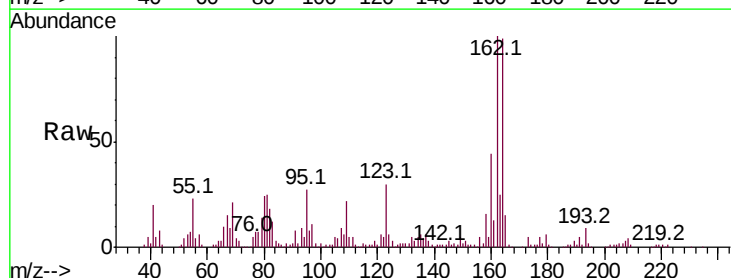
Tgt Ion: 164 Resp: 188821

Ion Ratio Lower Upper

164 100

162 100.9 82.6 123.8

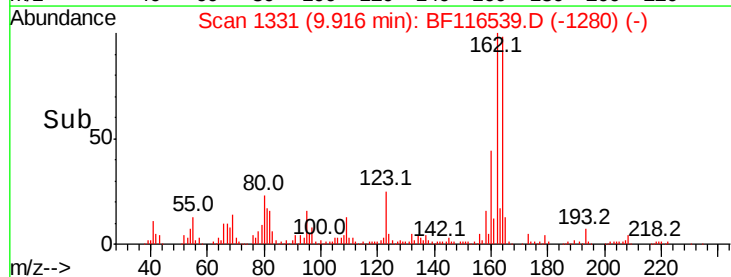
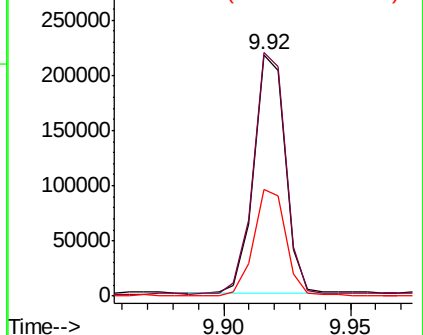
160 44.0 35.8 53.8

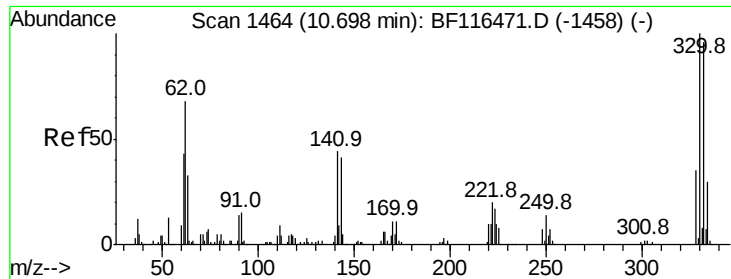


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 83.947 ng

RT: 10.71 min Scan# 1466

Delta R.T. 0.01 min

Lab File: BF116539.D

Acq: 25 Aug 2019 18:30

Instrument :

BNA_F

ClientSampleId :

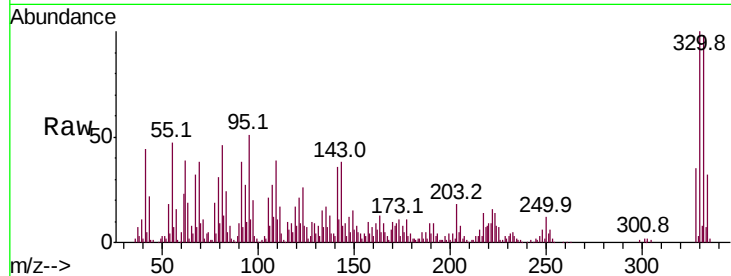
Tot Ion:330 Resp: 136107

Ion Ratio Lower Upper

330 100

332 95.4 77.2 115.8

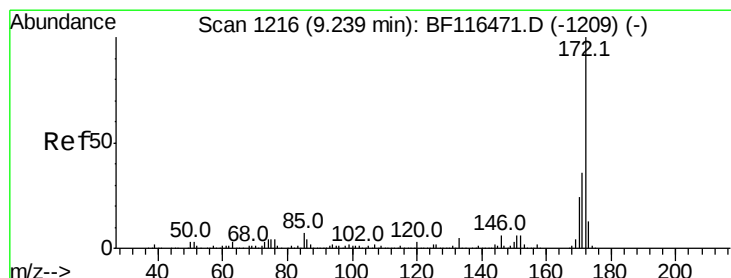
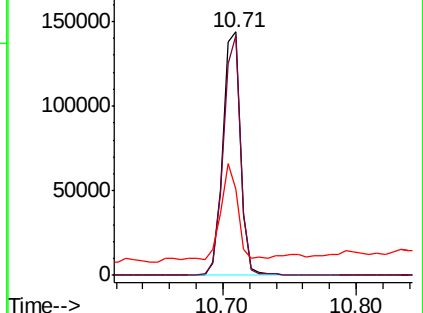
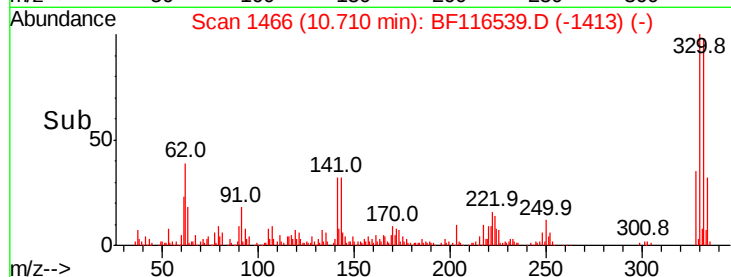
141 36.4 33.3 49.9



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: 75.084 ng

RT: 9.24 min Scan# 1216

Delta R.T. -0.00 min

Lab File: BF116539.D

Acq: 25 Aug 2019 18:30

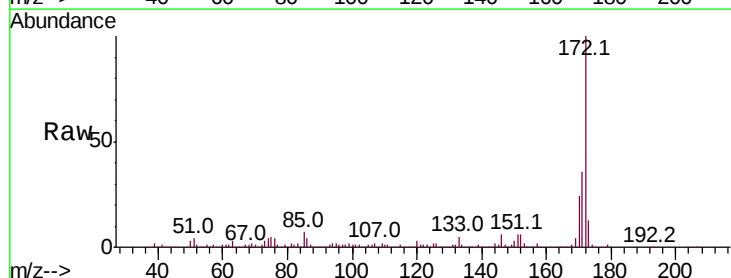
Tgt Ion:172 Resp: 880366

Ion Ratio Lower Upper

172 100

171 35.7 28.9 43.3

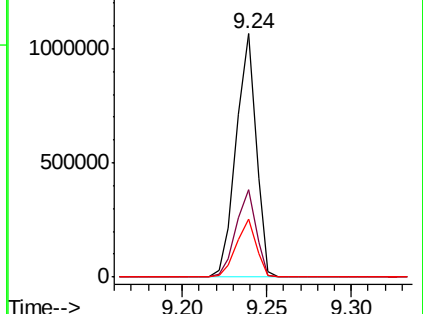
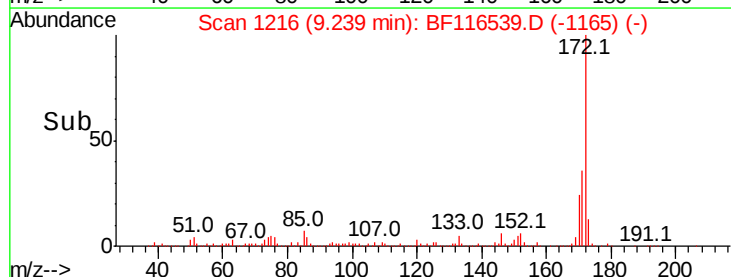
170 23.6 19.4 29.0

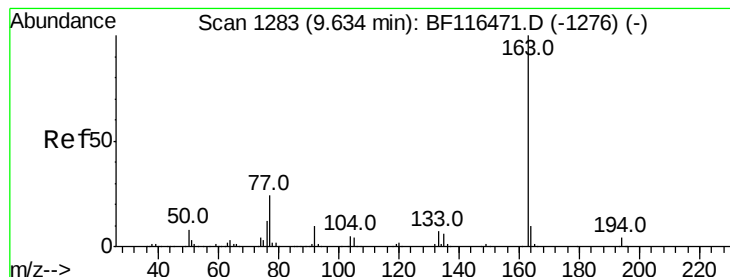


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 4.753 ng

RT: 9.63 min Scan# 1282

Delta R.T. -0.01 min

Lab File: BF116539.D

Acq: 25 Aug 2019 18:30

Instrument :

BNA_F

ClientSampled :

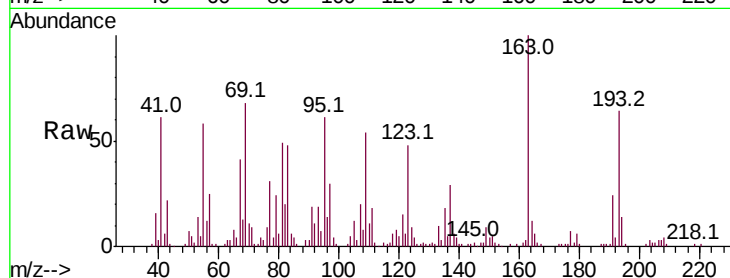
Tot Ion:163 Resp: 62620

Ion Ratio Lower Upper

163 100

194 13.8 2.9 4.3#

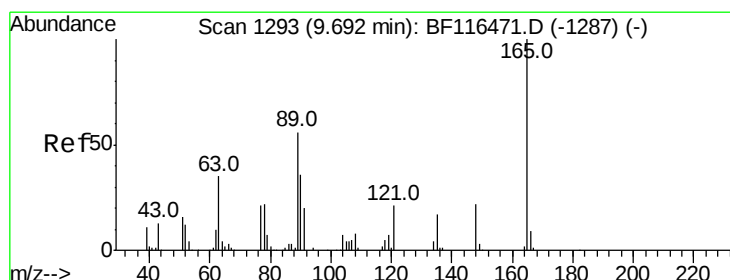
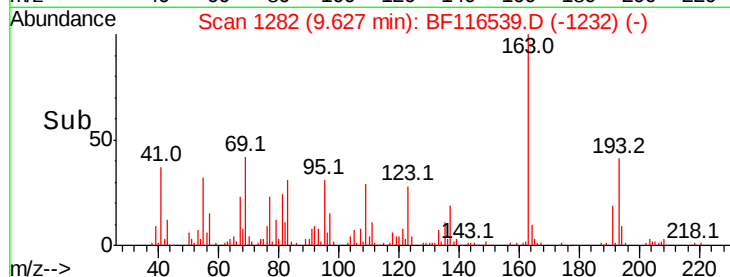
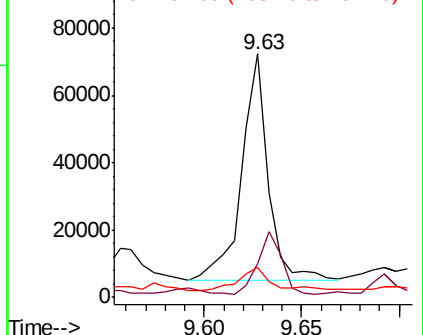
164 12.1 8.2 12.2



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51

2,6-Dinitrotoluene

Concen: 2.086 ng

RT: 9.70 min Scan# 1294

Delta R.T. 0.01 min

Lab File: BF116539.D

Acq: 25 Aug 2019 18:30

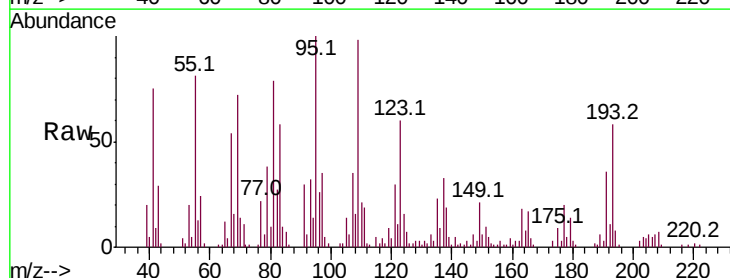
Tgt Ion:165 Resp: 5624

Ion Ratio Lower Upper

165 100

63 7.9 43.7 65.5#

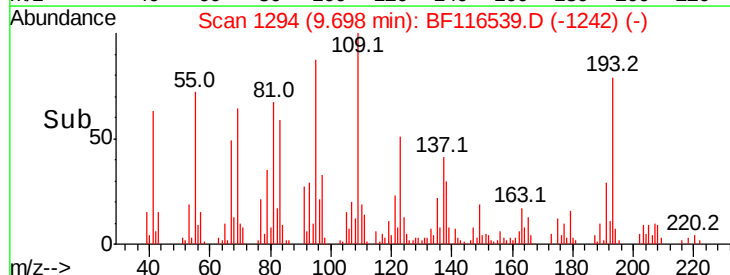
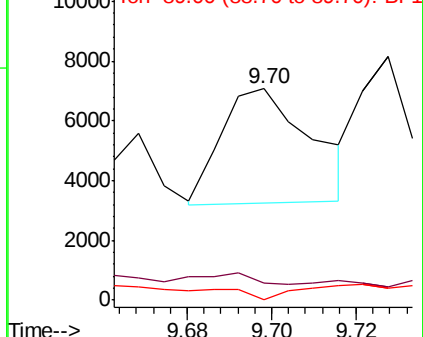
89 0.0 45.1 67.7#

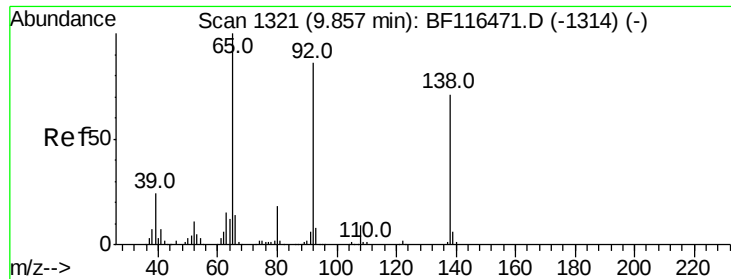


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

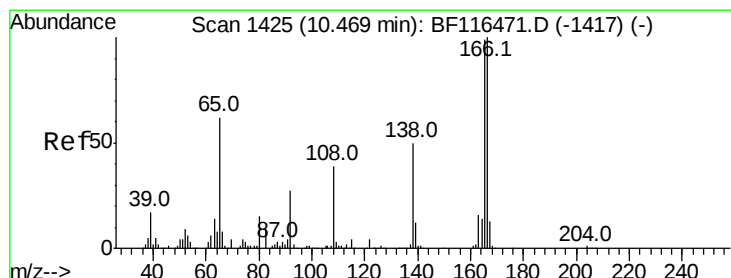
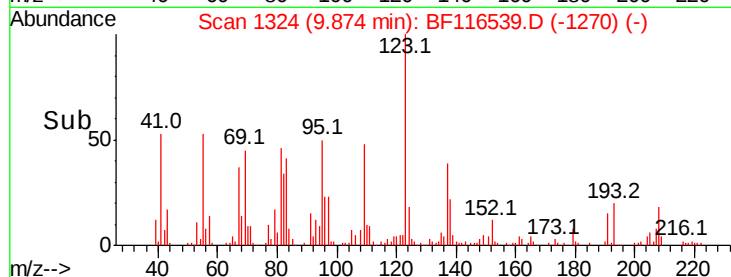
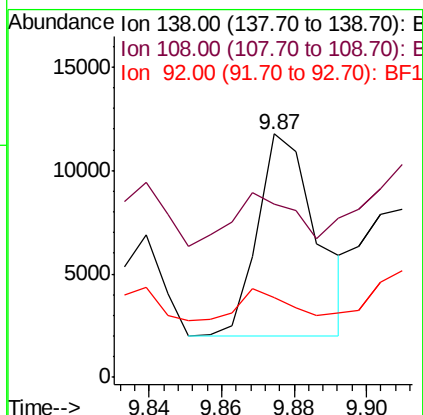
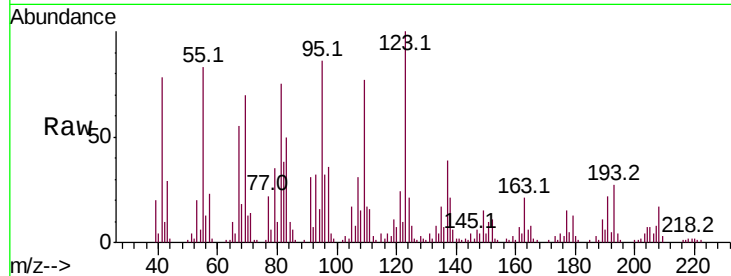




#53
3-Nitroaniline
Concen: 3.436 ng
RT: 9.87 min Scan# 1324
Delta R.T. 0.02 min
Lab File: BF116539.D
Acq: 25 Aug 2019 18:30

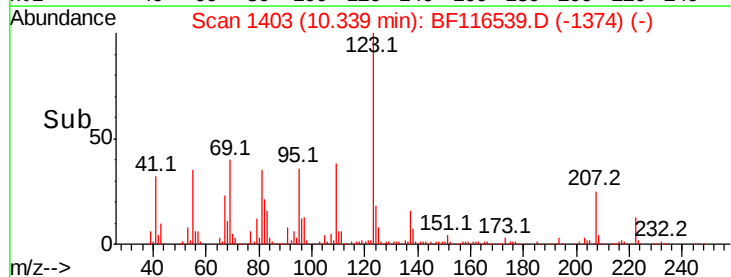
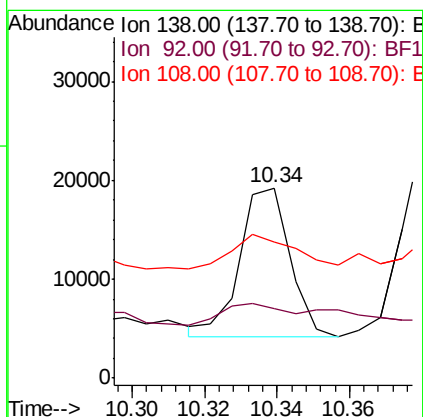
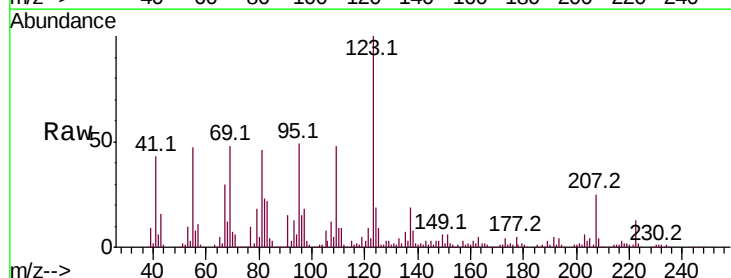
Instrument :
BNA_F
ClientSampleId :

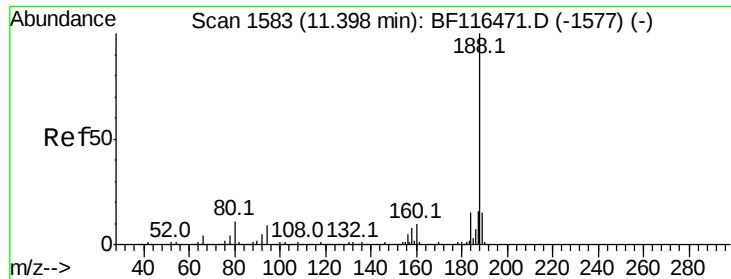
Tot Ion:138 Resp: 11044
Ion Ratio Lower Upper
138 100
108 71.3 10.0 15.0#
92 32.5 97.7 146.5#



#62
4-Nitroaniline
Concen: 4.582 ng
RT: 10.34 min Scan# 1403
Delta R.T. -0.13 min
Lab File: BF116539.D
Acq: 25 Aug 2019 18:30

Tgt Ion:138 Resp: 14405
Ion Ratio Lower Upper
138 100
92 36.5 34.9 74.9
108 71.5 57.7 97.7





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.41 min Scan# 1585

Delta R.T. 0.01 min

Lab File: BF116539.D

Acq: 25 Aug 2019 18:30

Instrument :

BNA_F

ClientSampleId :

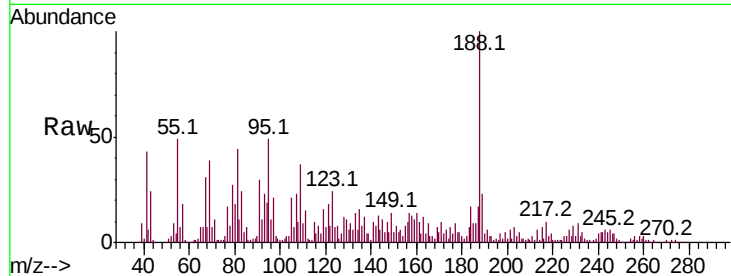
Tot Ion:188 Resp: 225292

Ion Ratio Lower Upper

188 100

94 18.8 7.4 11.2#

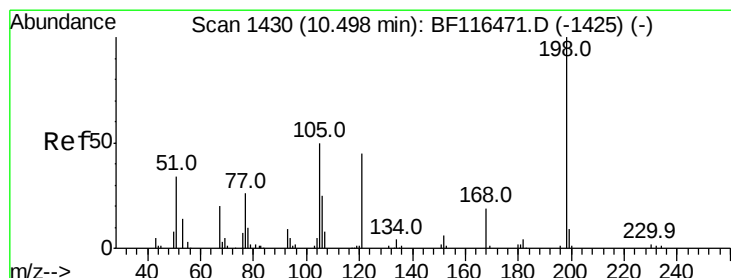
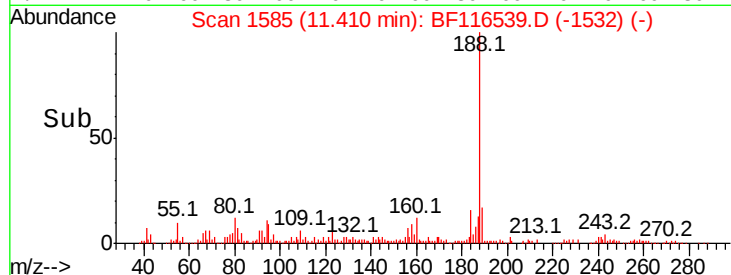
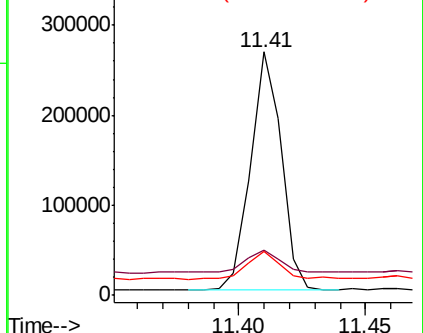
80 17.8 8.6 12.8#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#65

4,6-Dinitro-2-methylphenol

Concen: 8.371 ng

RT: 10.49 min Scan# 1429

Delta R.T. -0.01 min

Lab File: BF116539.D

Acq: 25 Aug 2019 18:30

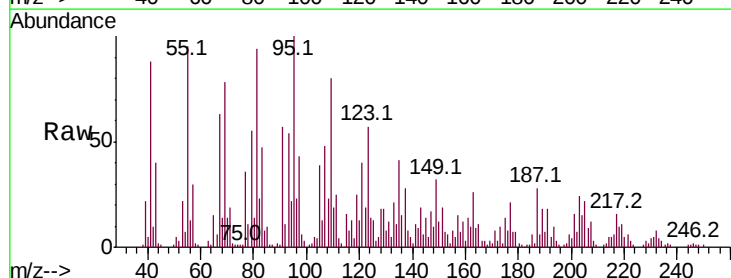
Tgt Ion:198 Resp: 1477

Ion Ratio Lower Upper

198 100

51 214.4 30.4 70.4#

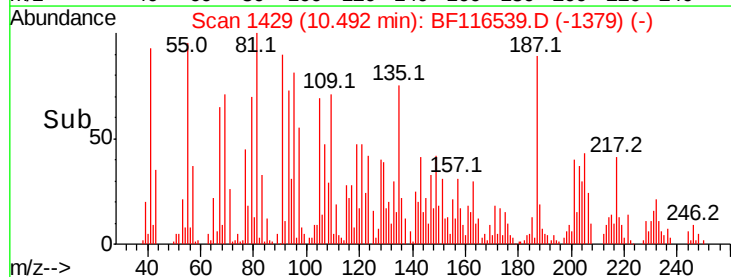
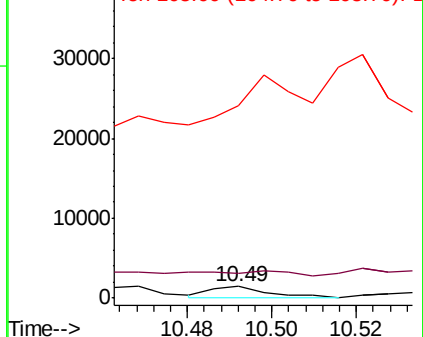
105 1628.2 32.8 72.8#

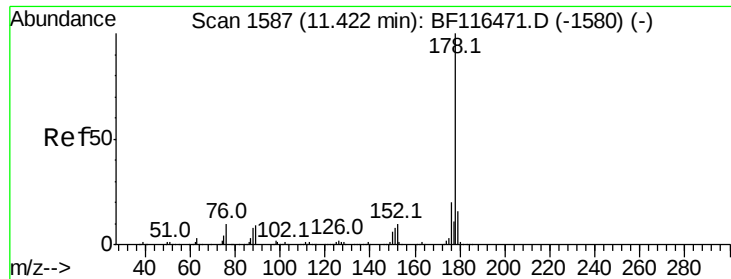


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E

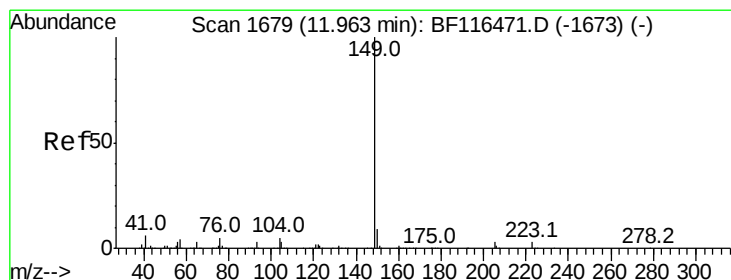
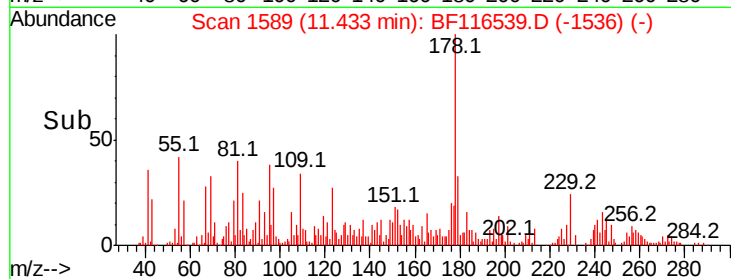
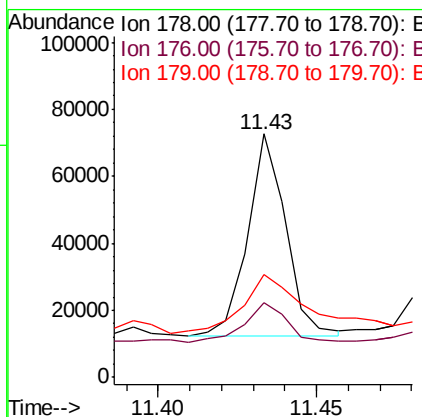
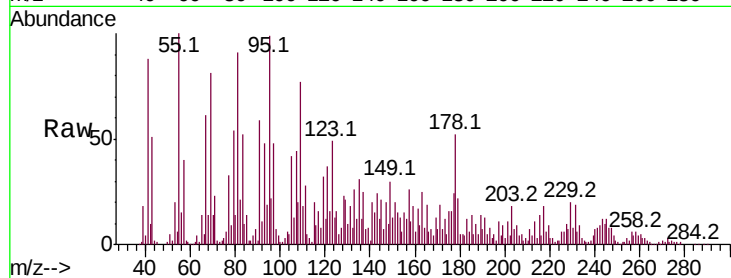




#71
Phenanthrene
Concen: 4.077 ng
RT: 11.43 min Scan# 1589
Delta R.T. 0.01 min
Lab File: BF116539.D
Acq: 25 Aug 2019 18:30

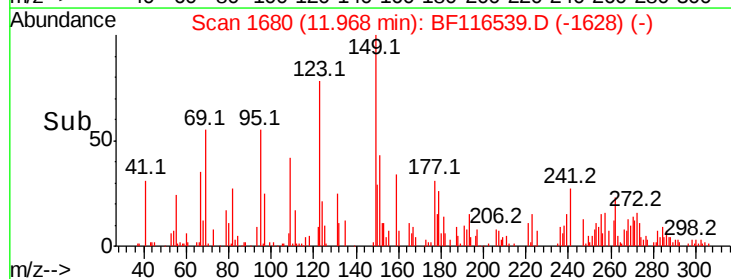
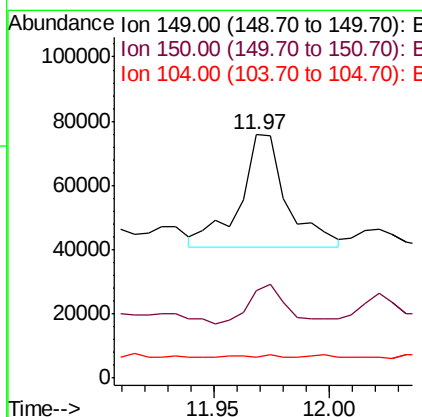
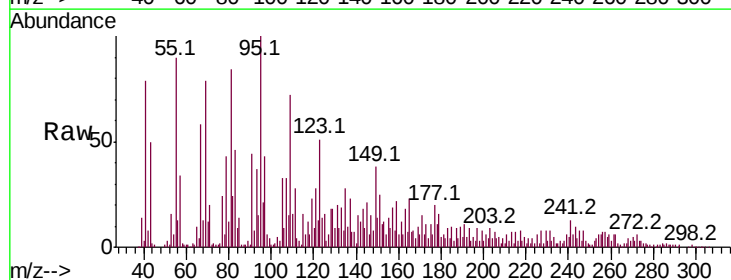
Instrument :
BNA_F
ClientSampleId :

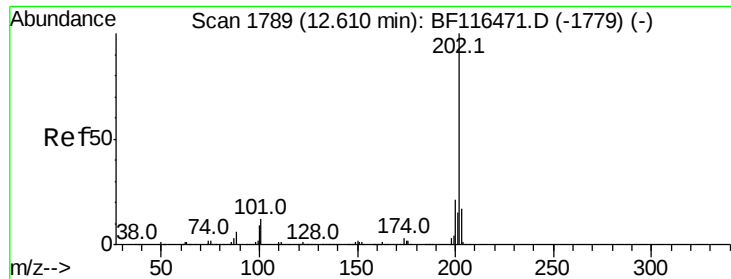
Tot Ion:178 Resp: 50041
Ion Ratio Lower Upper
178 100
176 30.5 15.8 23.6#
179 42.2 12.8 19.2#



#74
Di-n-butylphthalate
Concen: 3.640 ng
RT: 11.97 min Scan# 1680
Delta R.T. 0.01 min
Lab File: BF116539.D
Acq: 25 Aug 2019 18:30

Tgt Ion:149 Resp: 49933
Ion Ratio Lower Upper
149 100
150 36.2 7.5 11.3#
104 8.7 4.1 6.1#





#75

Fluoranthene

Concen: 8.418 ng

RT: 12.63 min Scan# 1793

Delta R.T. 0.02 min

Lab File: BF116539.D

Acq: 25 Aug 2019 18:30

Instrument :

BNA_F

ClientSampleId :

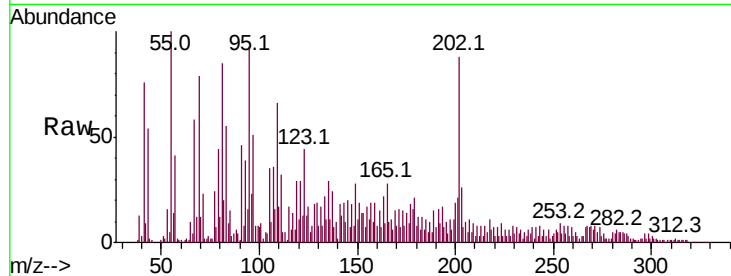
Tot Ion:202 Resp: 106813

Ion Ratio Lower Upper

202 100

101 10.5 0.0 31.5

203 29.3 0.0 37.5

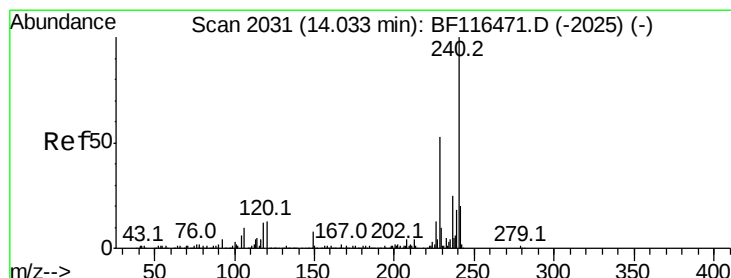
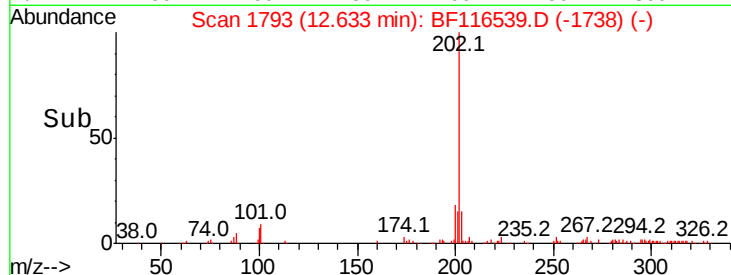
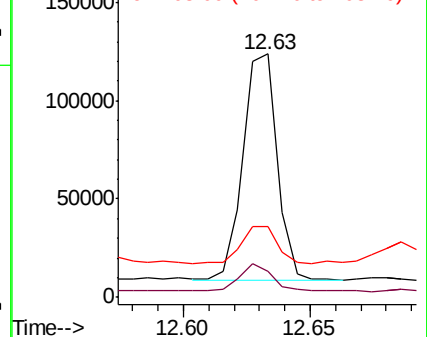


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.06 min Scan# 2035

Delta R.T. 0.02 min

Lab File: BF116539.D

Acq: 25 Aug 2019 18:30

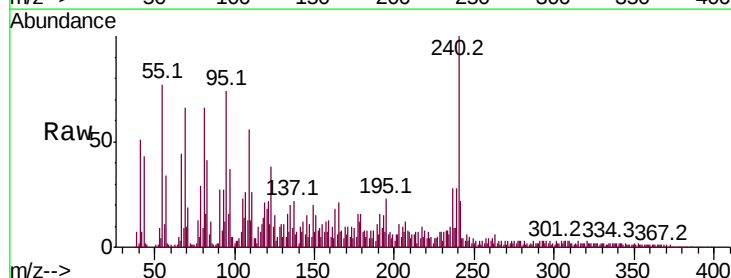
Tgt Ion:240 Resp: 165683

Ion Ratio Lower Upper

240 100

120 17.9 10.5 15.7#

236 27.9 20.2 30.2

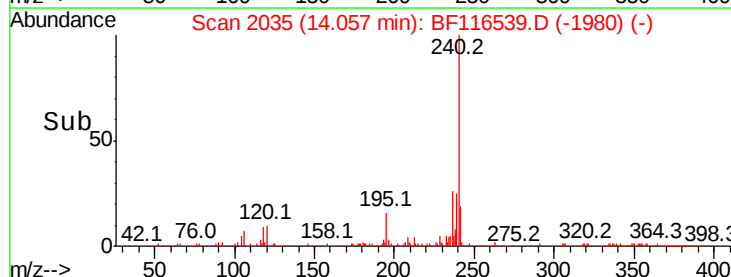
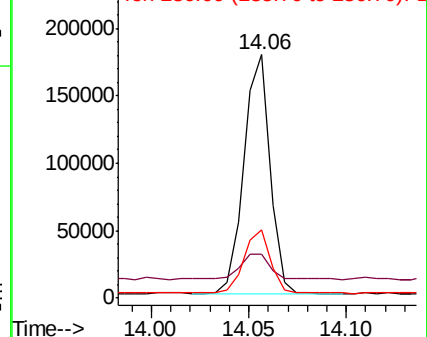


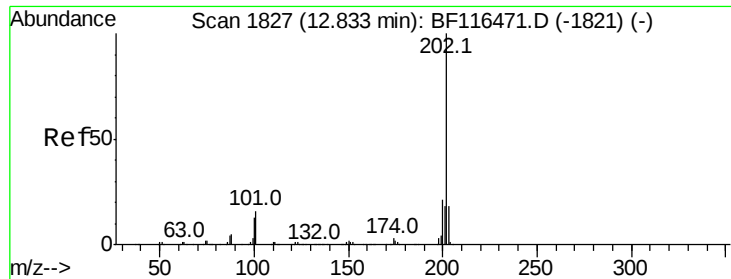
Abundance

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

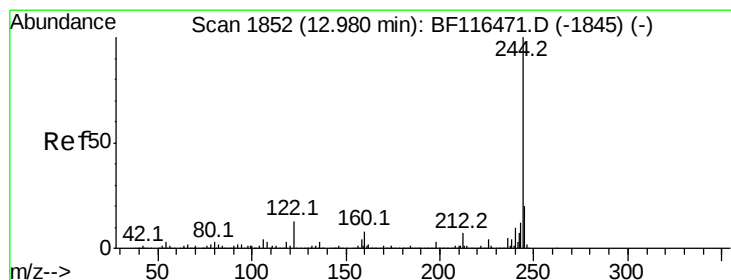
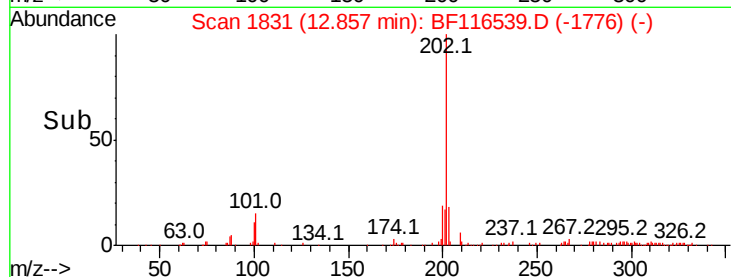
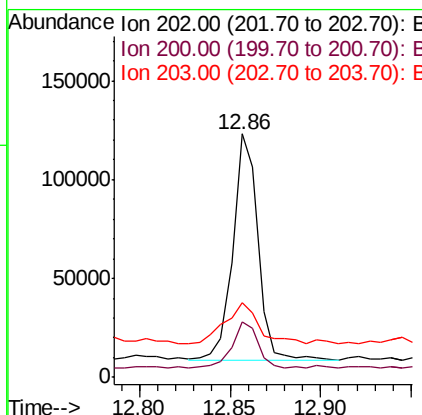
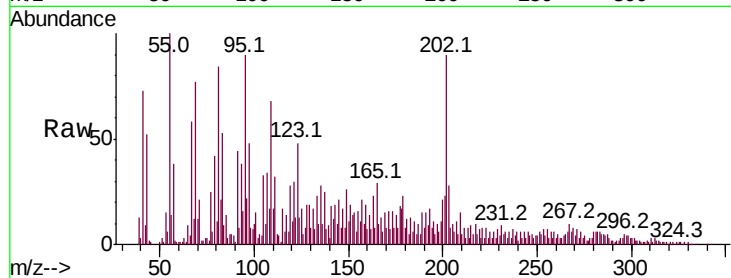




#78
Pvrene
Concen: 8.265 ng
RT: 12.86 min Scan# 1831
Delta R.T. 0.02 min
Lab File: BF116539.D
Acq: 25 Aug 2019 18:30

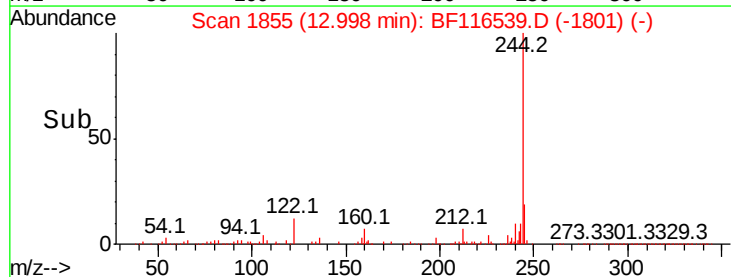
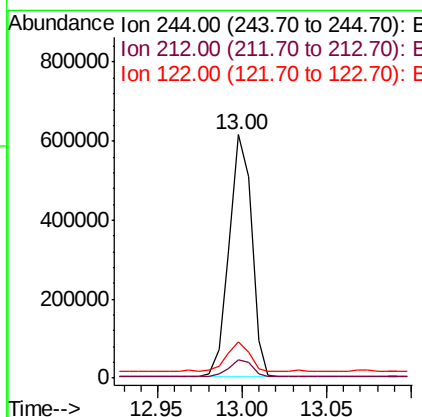
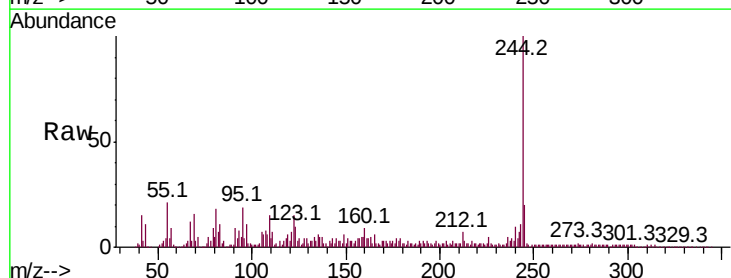
Instrument :
BNA_F
ClientSampleId :

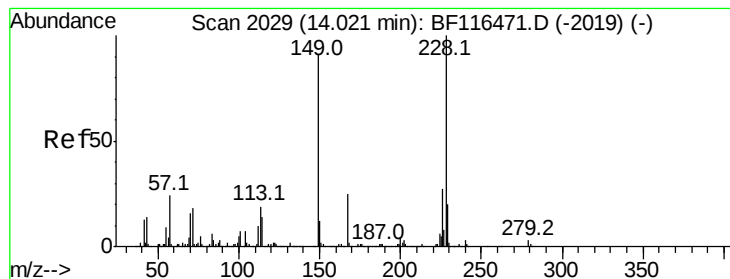
Tot Ion	Ratio	Lower	Upper
202	100		
200	23.0	17.0	25.4
203	30.8	14.2	21.4



#79
Terphenyl-d14
Concen: 64.112 ng
RT: 13.00 min Scan# 1855
Delta R.T. 0.02 min
Lab File: BF116539.D
Acq: 25 Aug 2019 18:30

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.7	8.5
122	15.0	10.2	15.4





#81

Benzo(a)anthracene

Concen: 5.153 ng

RT: 14.04 min Scan# 2033

Delta R.T. 0.02 min

Lab File: BF116539.D

Acq: 25 Aug 2019 18:30

Instrument :

BNA_F

ClientSampleId :

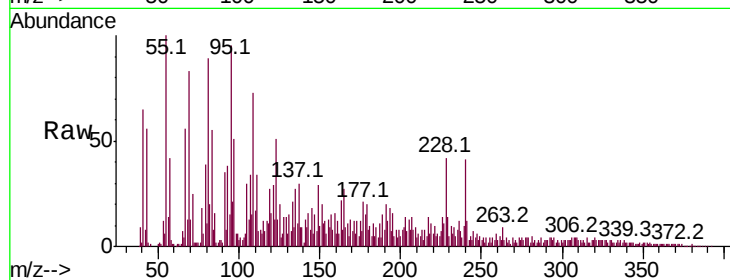
Tot Ion:228 Resp: 55297

Ion Ratio Lower Upper

228 100

226 32.9 21.8 32.6#

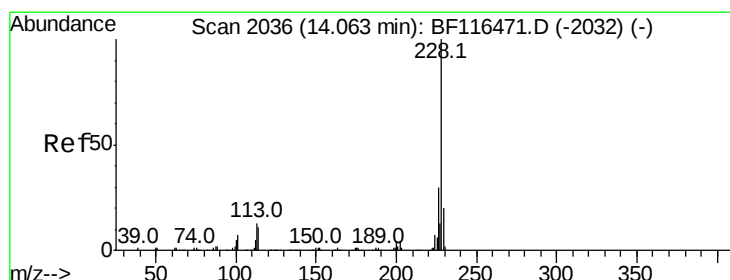
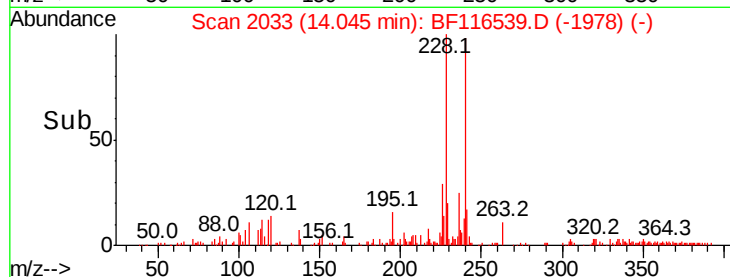
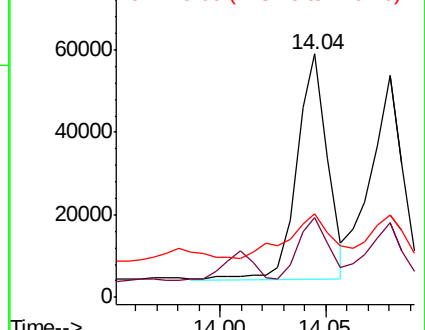
229 34.1 15.9 23.9#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 4.429 ng

RT: 14.08 min Scan# 2039

Delta R.T. 0.02 min

Lab File: BF116539.D

Acq: 25 Aug 2019 18:30

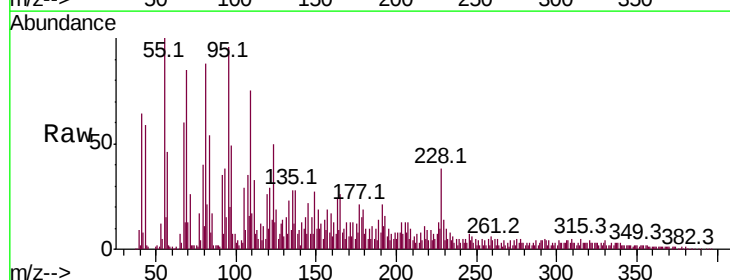
Tgt Ion:228 Resp: 48176

Ion Ratio Lower Upper

228 100

226 33.6 24.2 36.2

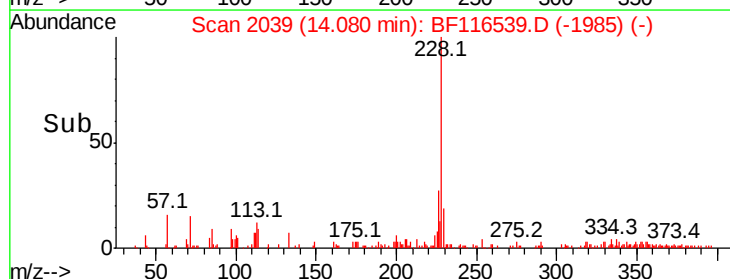
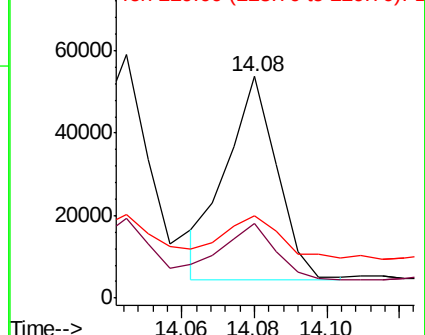
229 37.0 15.8 23.6#

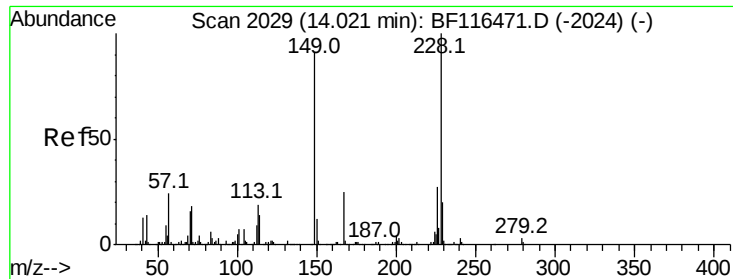


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

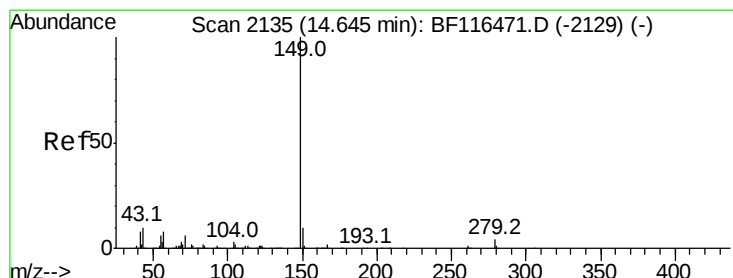
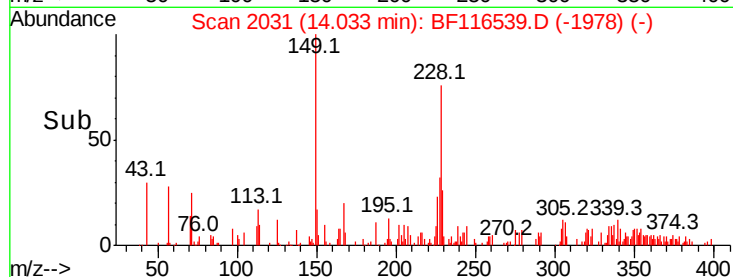
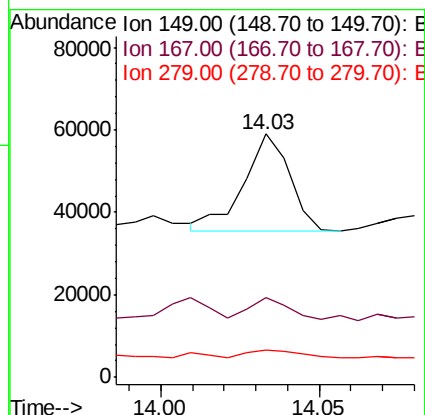
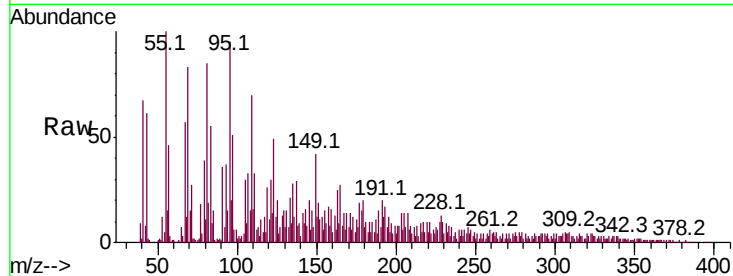




#84
 Bis(2-ethylhexyl)phthalate
 Concen: 3.129 ng
 RT: 14.03 min Scan# 2031
 Delta R.T. 0.01 min
 Lab File: BF116539.D
 Acq: 25 Aug 2019 18:30

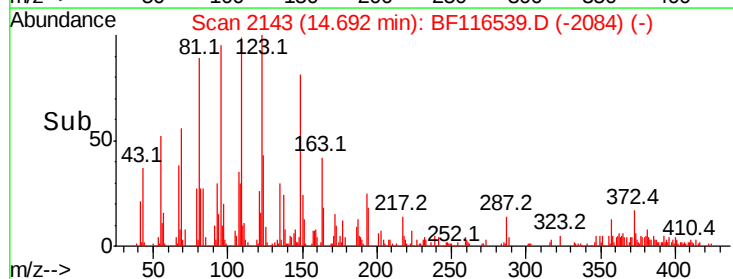
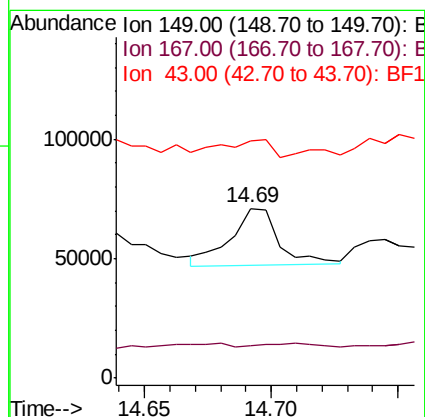
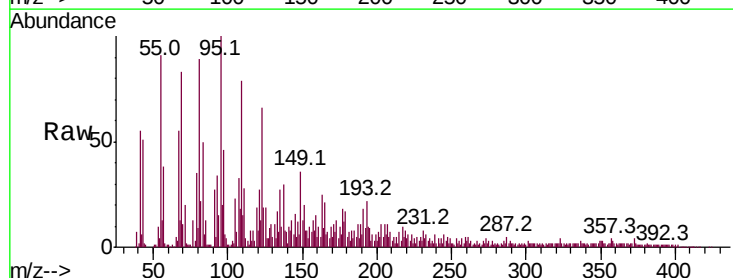
Instrument :
 BNA_F
 ClientSampleId :

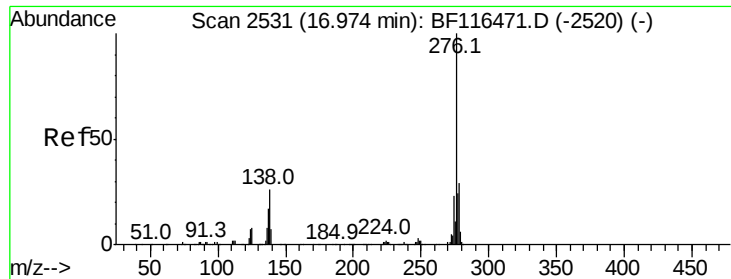
Tot Ion:149 Resp: 23874
 Ion Ratio Lower Upper
 149 100
 167 32.8 21.8 32.6#
 279 11.4 3.0 4.4#



#85
 Di-n-octyl phthalate
 Concen: 2.502 ng
 RT: 14.69 min Scan# 2143
 Delta R.T. 0.05 min
 Lab File: BF116539.D
 Acq: 25 Aug 2019 18:30

Tgt Ion:149 Resp: 32412
 Ion Ratio Lower Upper
 149 100
 167 4.9 1.3 1.9#
 43 32.1 7.8 11.8#

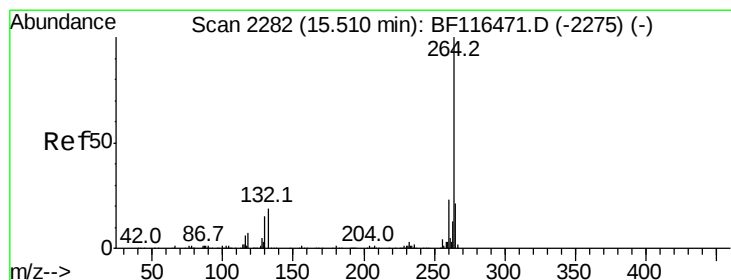
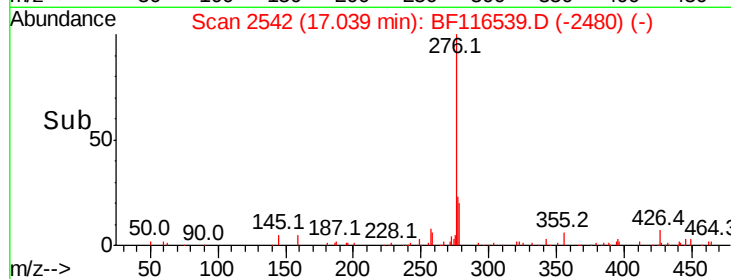
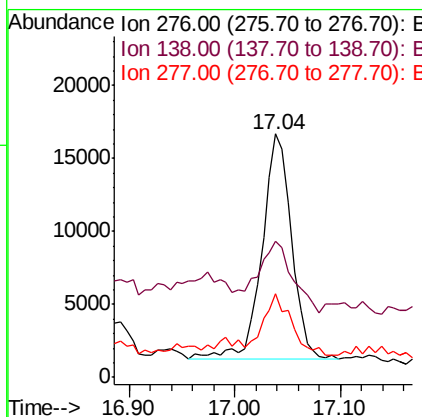
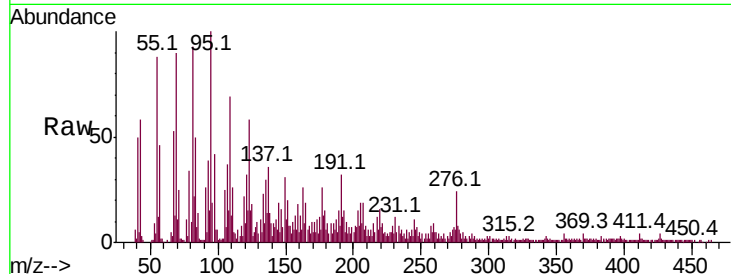




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 3.235 ng
 RT: 17.04 min Scan# 2542
 Delta R.T. 0.06 min
 Lab File: BF116539.D
 Acq: 25 Aug 2019 18:30

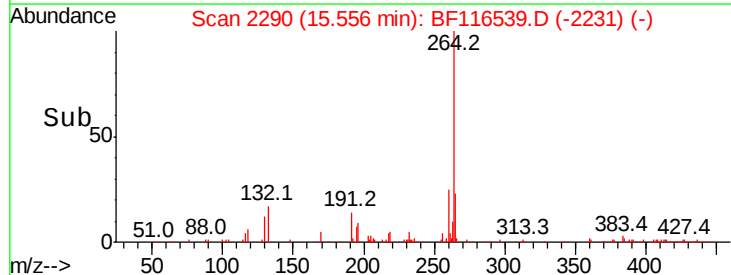
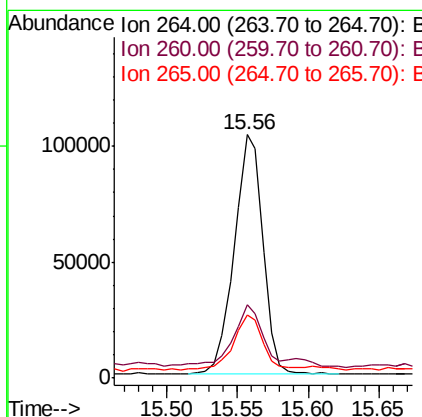
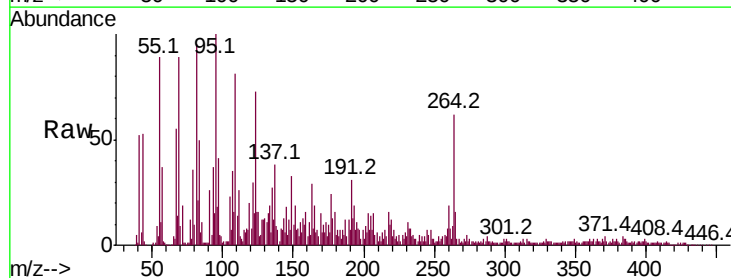
Instrument :
 BNA_F
 ClientSampleId :

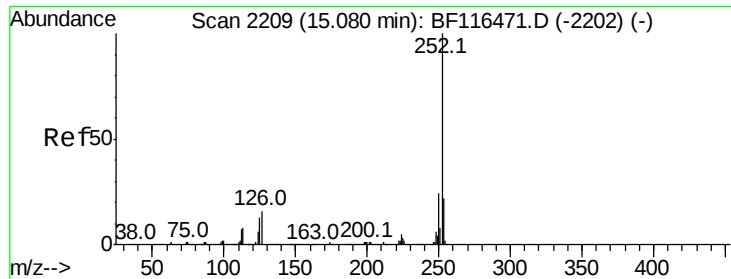
Tot Ion	Ratio	Lower	Upper
276	100		
138	36.1	22.9	34.3#
277	25.9	19.9	29.9



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.56 min Scan# 2290
 Delta R.T. 0.05 min
 Lab File: BF116539.D
 Acq: 25 Aug 2019 18:30

Tgt Ion	Ratio	Lower	Upper
264	100		
260	30.4	18.8	28.2#
265	26.2	17.1	25.7#

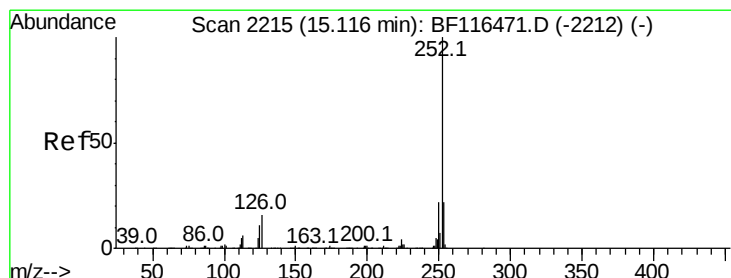
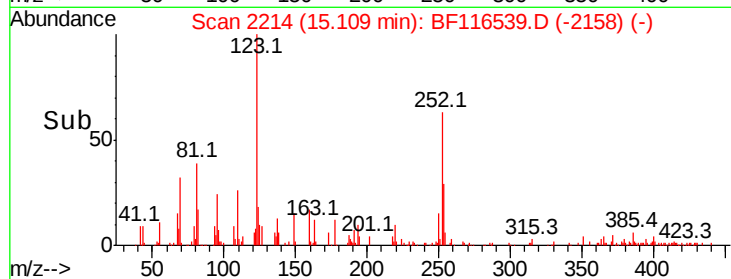
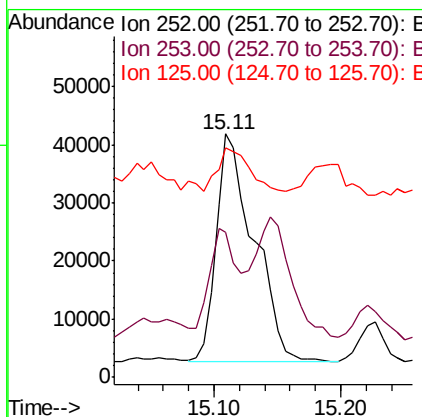
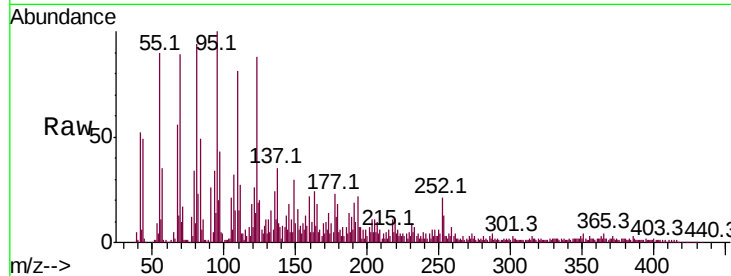




#88
Benzo(b)fluoranthene
Concen: 8.992 ng
RT: 15.11 min Scan# 2214
Delta R.T. 0.03 min
Lab File: BF116539.D
Acq: 25 Aug 2019 18:30

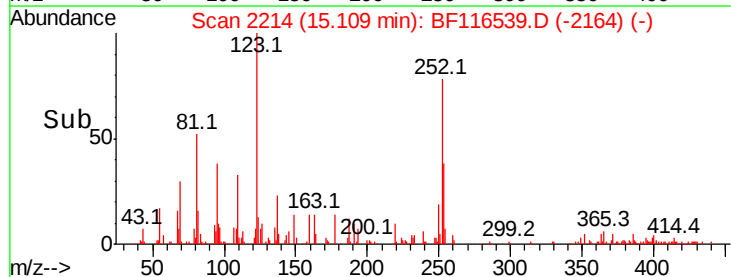
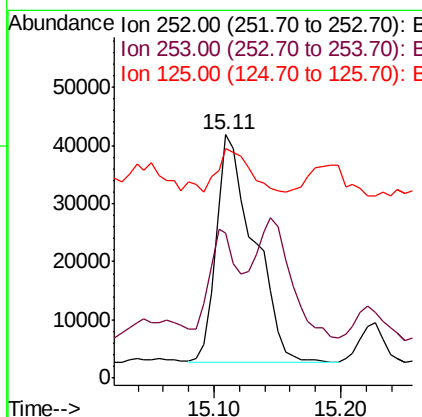
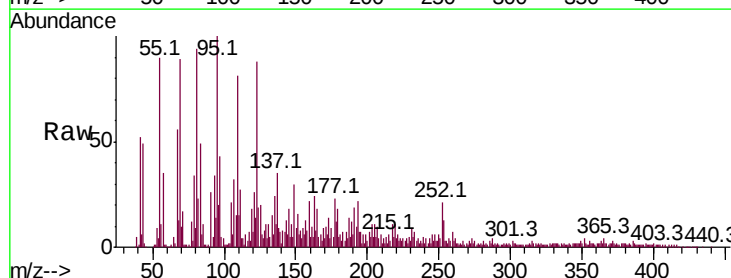
Instrument :
BNA_F
ClientSampleId :

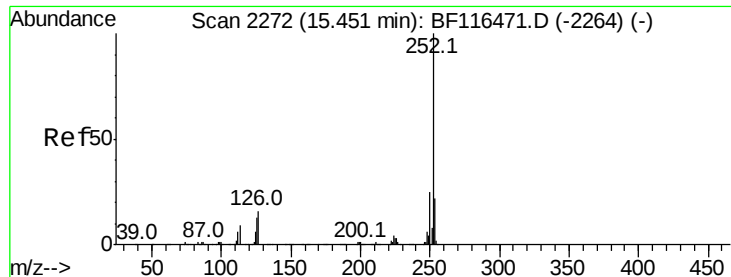
Tot Ion:252 Resp: 81359
Ion Ratio Lower Upper
252 100
253 59.8 17.5 26.3#
125 94.3 10.1 15.1#



#89
Benzo(k)fluoranthene
Concen: 9.925 ng
RT: 15.11 min Scan# 2214
Delta R.T. -0.01 min
Lab File: BF116539.D
Acq: 25 Aug 2019 18:30

Tgt Ion:252 Resp: 81359
Ion Ratio Lower Upper
252 100
253 59.8 17.4 26.2#
125 94.3 9.1 13.7#

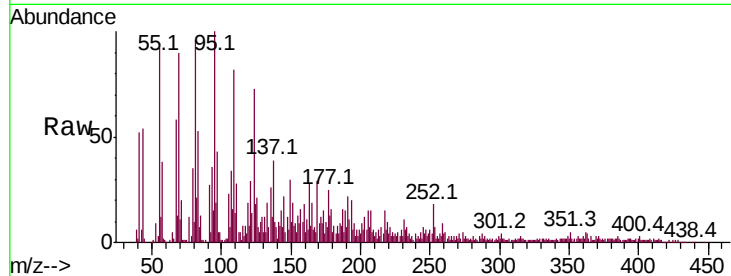




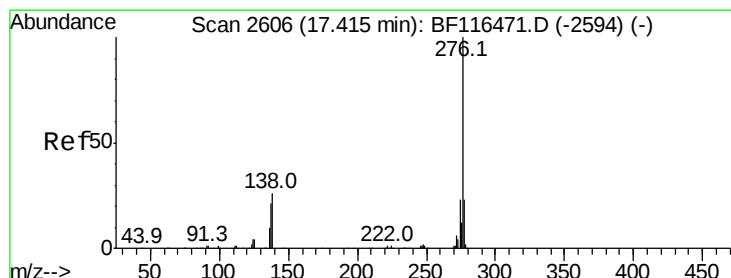
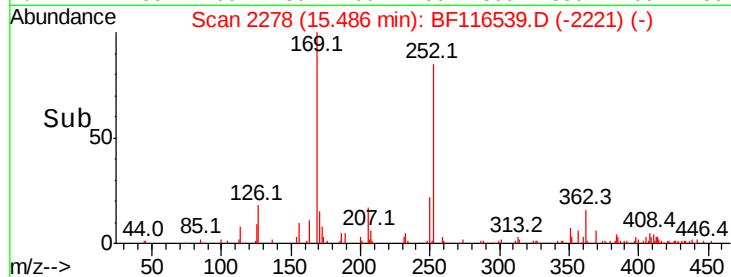
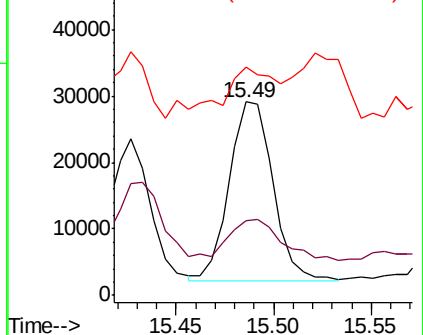
#90
Benzo(a)pyrene
Concen: 5.205 ng
RT: 15.49 min Scan# 2278
Delta R.T. 0.04 min
Lab File: BF116539.D
Acq: 25 Aug 2019 18:30

Instrument :
BNA_F
ClientSampled :

Tot Ion:252 Resp: 41622
Ion Ratio Lower Upper
252 100
253 38.3 17.2 25.8#
125 118.1 10.2 15.4#

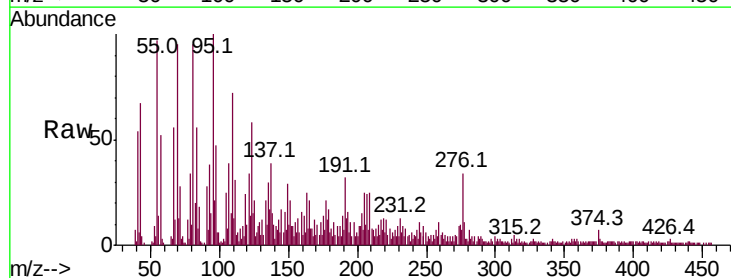


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#92
Benzo(g,h,i)perylene
Concen: 4.871 ng
RT: 17.49 min Scan# 2618
Delta R.T. 0.07 min
Lab File: BF116539.D
Acq: 25 Aug 2019 18:30

Tgt Ion:276 Resp: 30514
Ion Ratio Lower Upper
276 100
277 31.9 18.7 28.1#
138 44.0 20.8 31.2#



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

