

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072519\
 Data File : BF115756.D
 Acq On : 25 Jul 2019 13:04
 Operator : HP/JU
 Sample : K3943-01DL 20X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PA-71619DL

Quant Time: Jul 26 05:45:26 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 25 13:16:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	129300	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	555257	20.00	ng	0.00
39) Acenaphthene-d10	9.90	164	306282	20.00	ng	0.00
64) Phenanthrene-d10	11.39	188	521333	20.00	ng	0.00
76) Chrysene-d12	14.03	240	345361	20.00	ng	0.00
87) Perylene-d12	15.50	264	415795	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.49	112	33086	4.19	ng	0.00
7) Phenol-d6	6.50	99	48800	4.87	ng	0.00
23) Nitrobenzene-d5	7.43	82	29090	3.05	ng	0.00
42) 2,4,6-Tribromophenol	10.69	330	14258	3.99	ng	0.00
45) 2-Fluorobiphenyl	9.22	172	76777	4.39	ng	-0.01
79) Terphenyl-d14	12.97	244	82594	4.41	ng	-0.01

Target Compounds

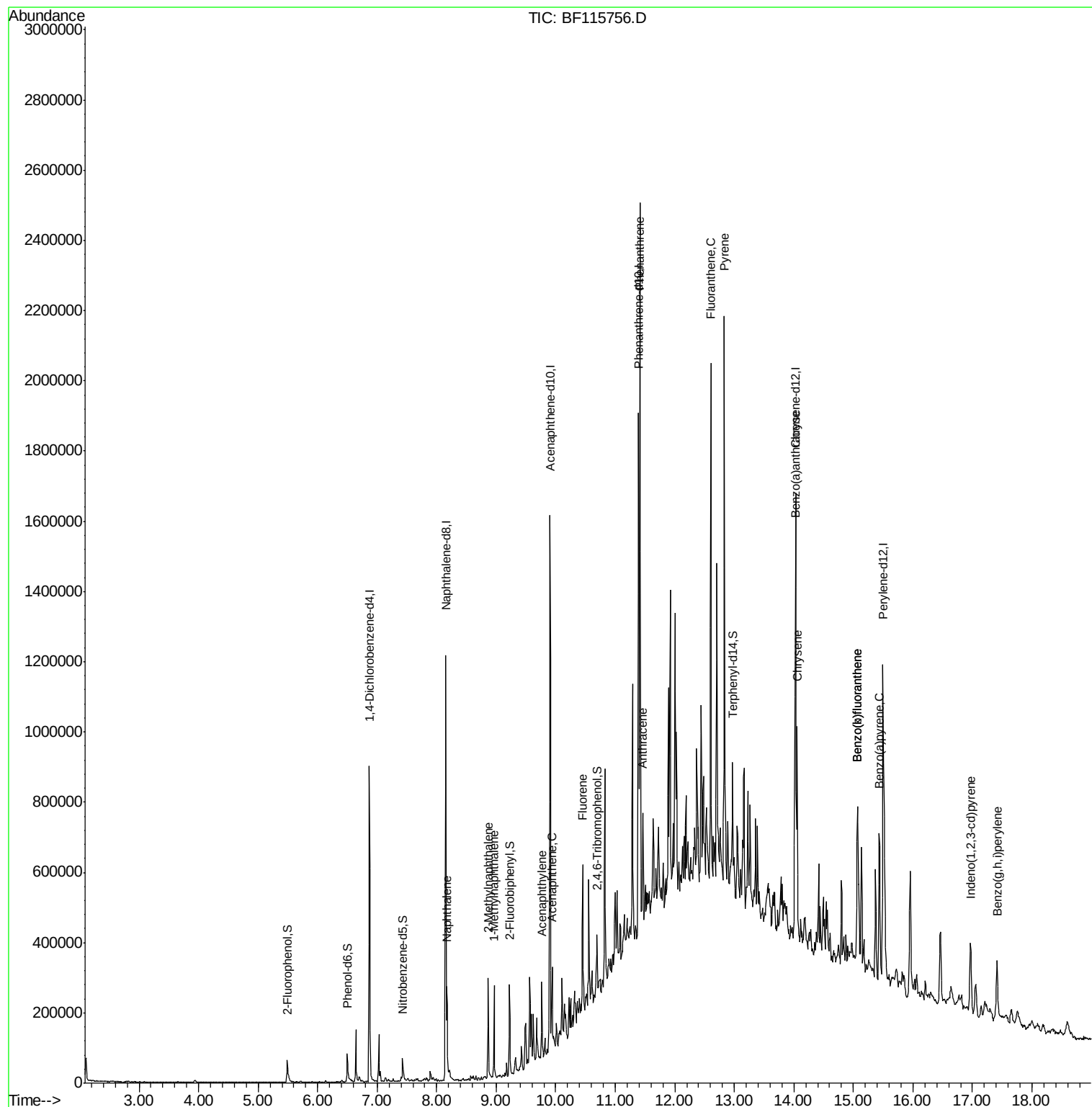
						Qvalue
31) Naphthalene	8.17	128	105096	3.908	ng	99
37) 2-Methylnaphthalene	8.86	142	80624	4.523	ng	99
38) 1-Methylnaphthalene	8.96	142	69038	4.078	ng	98
49) Acenaphthylene	9.76	152	70257	2.378	ng	97
52) Acenaphthene	9.94	154	45664	2.394	ng	95
58) Fluorene	10.45	166	105466	5.447	ng	96
71) Phenanthrene	11.42	178	709994	26.569	ng	99
72) Anthracene	11.47	178	132289	4.790	ng	97
75) Fluoranthene	12.60	202	565037	20.009	ng	98
78) Pyrene	12.83	202	672968	22.999	ng	99
81) Benzo(a)anthracene	14.02	228	234031	10.286	ng	93
83) Chrysene	14.06	228	253173	11.084	ng	98
86) Indeno(1,2,3-cd)pyrene	16.97	276	132533	6.830	ng	96
88) Benzo(b)fluoranthene	15.07	252	331193	12.370	ng	97
89) Benzo(k)fluoranthene	15.07	252	331193	13.875	ng	98
90) Benzo(a)pyrene	15.43	252	207626	9.023	ng	98
92) Benzo(a,h,i)perylene	17.42	276	140472	6.972	ng	96

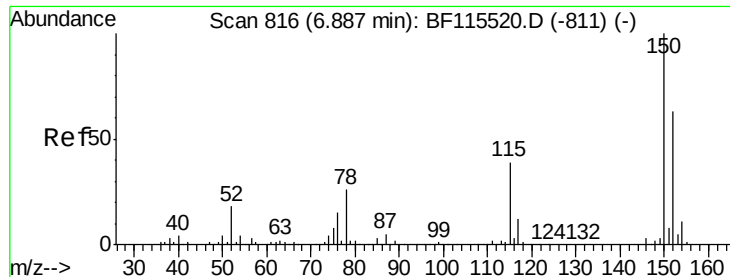
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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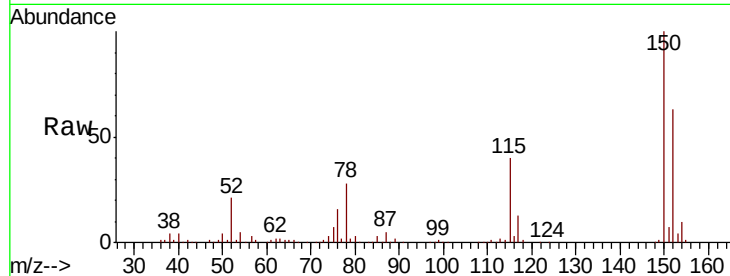


#1

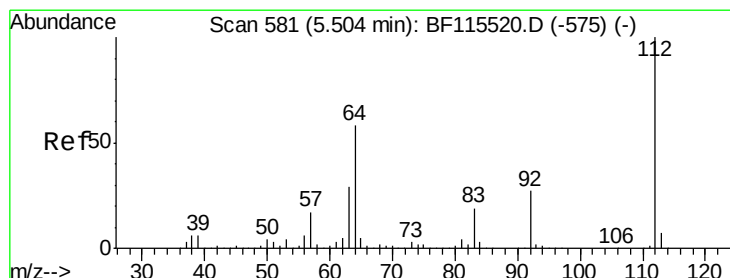
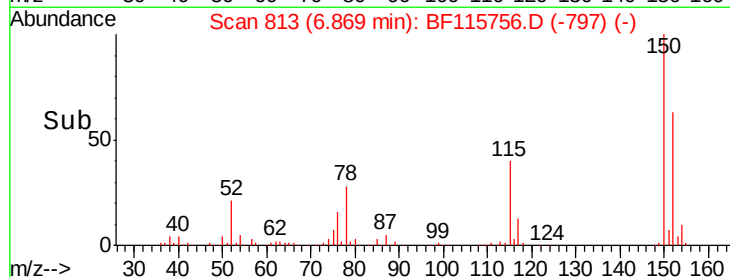
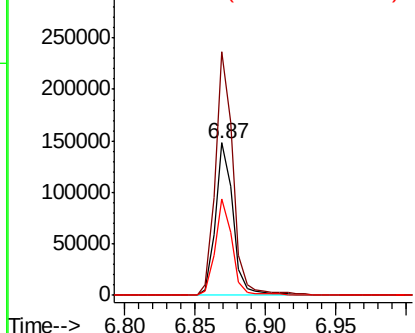
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.87 min Scan# 813
Delta R.T. -0.01 min
Lab File: BF115756.D
Acq: 25 Jul 2019 13:04

Instrument :
BNA_F
ClientSampleId :
PA-71619DL

Tot Ion:152 Resp: 129300
Ion Ratio Lower Upper
152 100
150 159.7 126.6 189.8
115 63.5 47.8 71.6



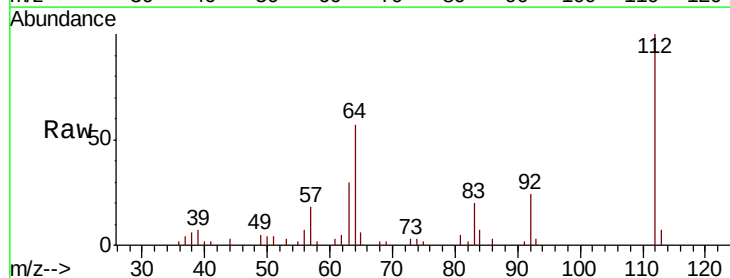
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



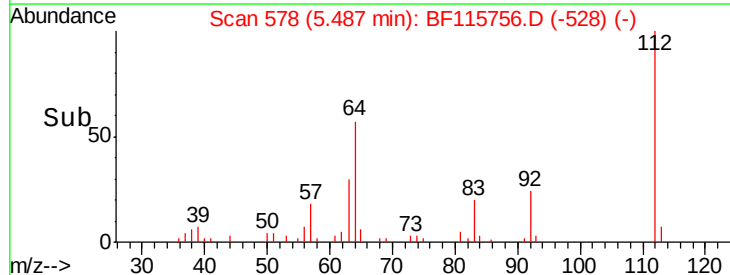
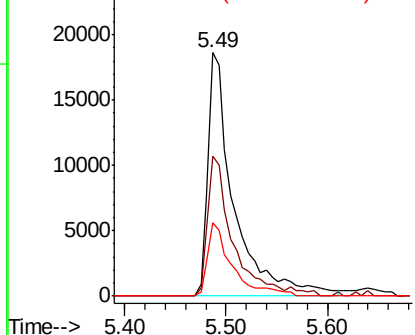
#5

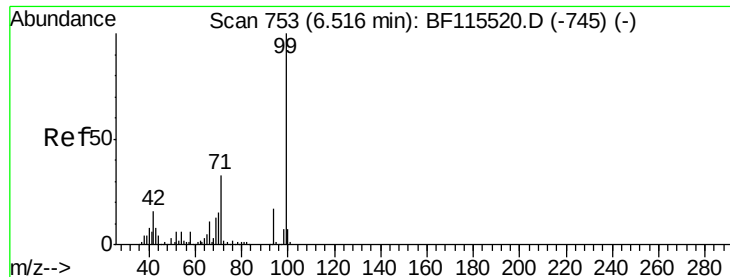
2-Fluorophenol
Concen: 4.186 ng
RT: 5.49 min Scan# 578
Delta R.T. -0.01 min
Lab File: BF115756.D
Acq: 25 Jul 2019 13:04

Tgt Ion:112 Resp: 33086
Ion Ratio Lower Upper
112 100
64 57.4 45.8 68.8
63 30.0 23.6 35.4



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: 4.865 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.01 min

Lab File: BF115756.D

Acq: 25 Jul 2019 13:04

Instrument :

BNA_F

ClientSampleId :

PA-71619DL

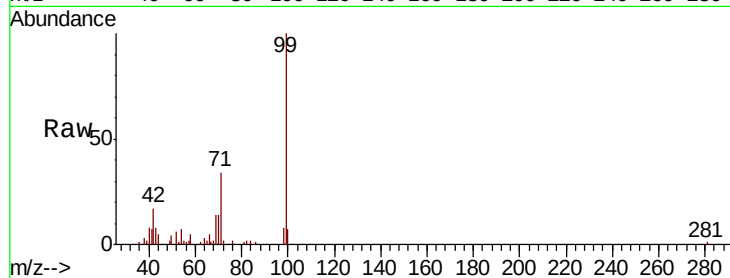
Tot Ion: 99 Resp: 48800

Ion Ratio Lower Upper

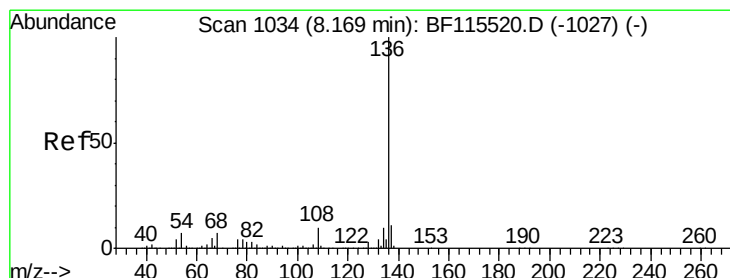
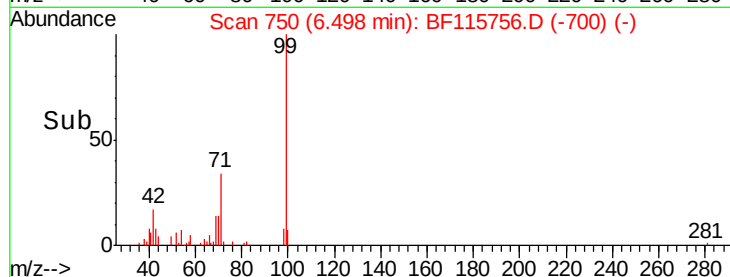
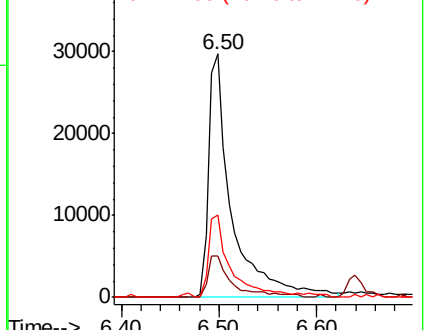
99 100

42 17.1 13.4 20.2

71 33.7 26.7 40.1



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: 8.15 min Scan# 1031

Delta R.T. -0.01 min

Lab File: BF115756.D

Acq: 25 Jul 2019 13:04

Tgt Ion: 136 Resp: 555257

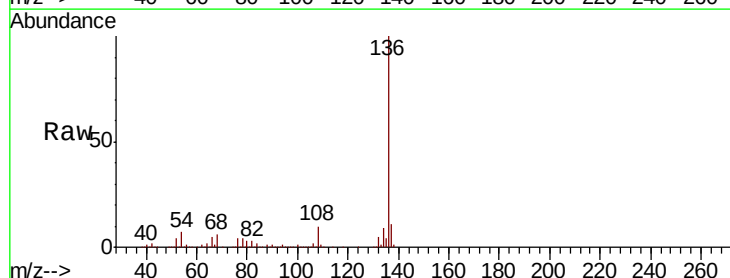
Ion Ratio Lower Upper

136 100

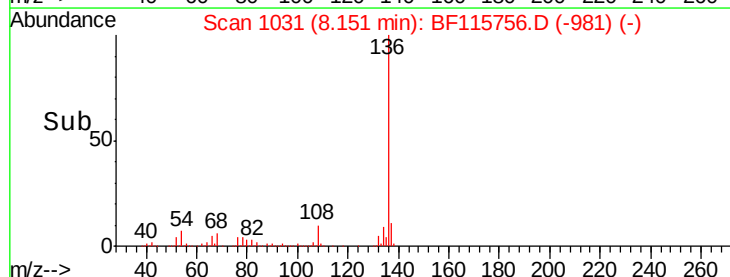
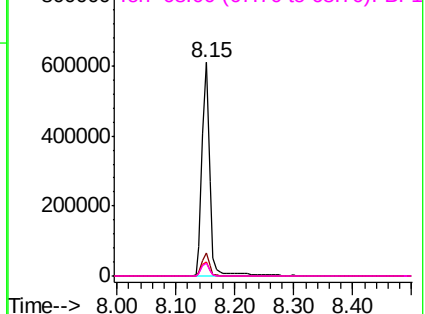
137 11.0 8.7 13.1

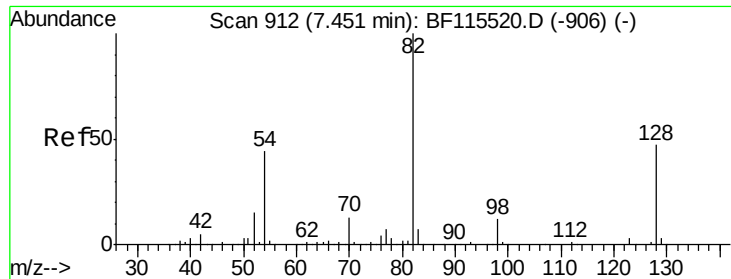
54 6.6 5.0 7.6

68 5.9 4.7 7.1



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

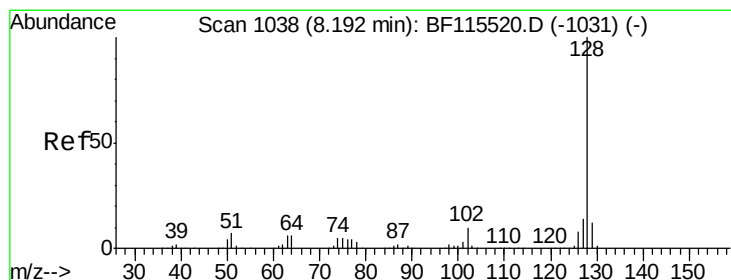
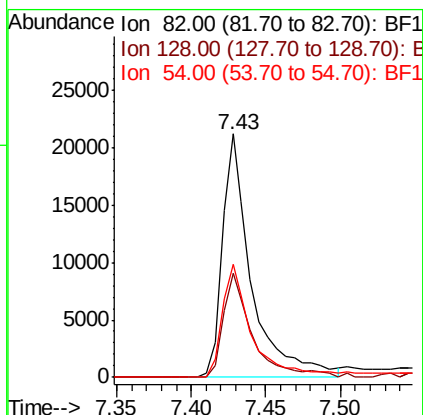
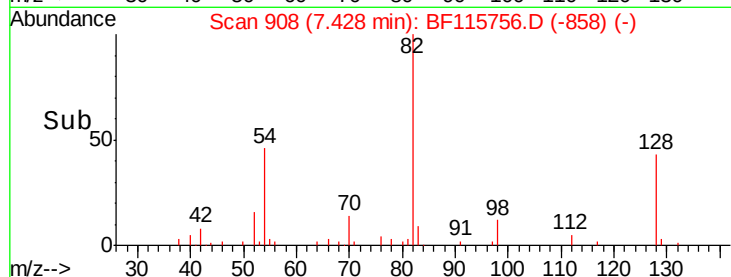
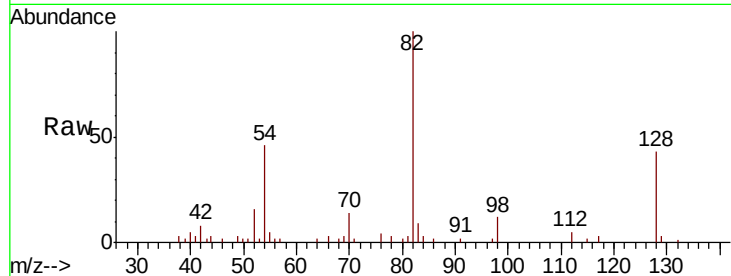




#23
 Nitrobenzene-d5
 Concen: 3.046 ng
 RT: 7.43 min Scan# 908
 Delta R.T. -0.01 min
 Lab File: BF115756.D
 Acq: 25 Jul 2019 13:04

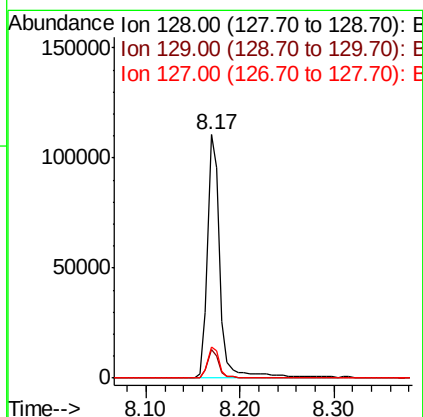
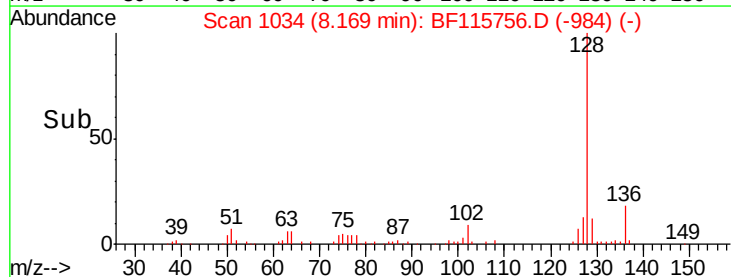
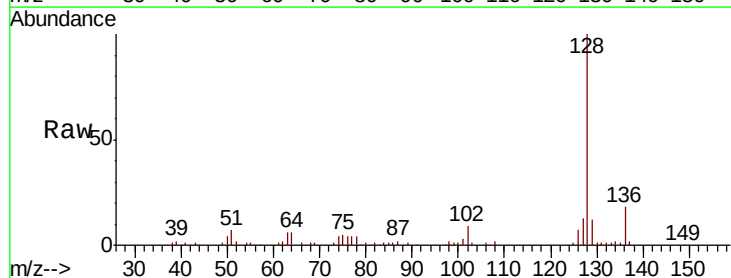
Instrument :
 BNA_F
 ClientSampled :
 PA-71619DL

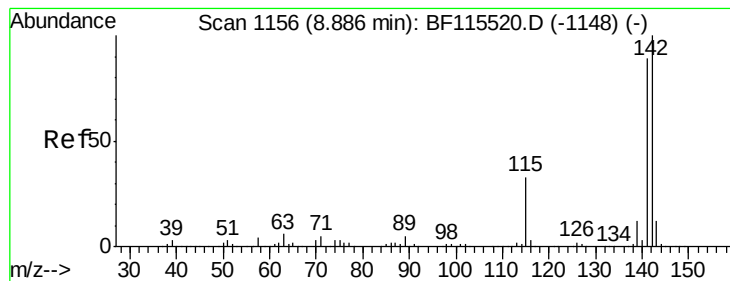
Tot Ion	82	Resp	29090
Ion Ratio	Lower	Upper	
82	100		
128	42.6	36.6	55.0
54	46.3	36.6	54.8



#31
 Naphthalene
 Concen: 3.908 ng
 RT: 8.17 min Scan# 1034
 Delta R.T. -0.01 min
 Lab File: BF115756.D
 Acq: 25 Jul 2019 13:04

Tgt Ion	128	Resp	105096
Ion Ratio	Lower	Upper	
128	100		
129	11.5	9.4	14.2
127	12.9	10.9	16.3





#37

2-Methylnaphthalene

Concen: 4.523 ng

RT: 8.86 min Scan# 1152

Delta R.T. -0.01 min

Lab File: BF115756.D

Acq: 25 Jul 2019 13:04

Instrument :

BNA_F

ClientSampleId :

PA-71619DL

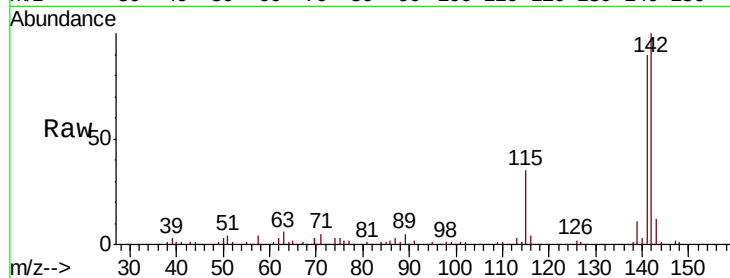
Tot Ion:142 Resp: 80624

Ion Ratio Lower Upper

142 100

141 90.3 71.0 106.4

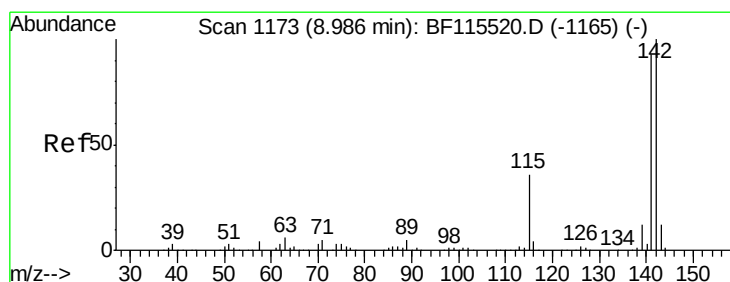
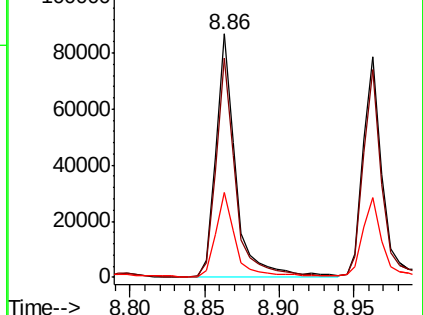
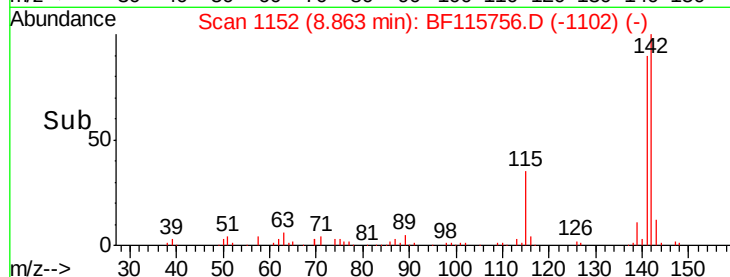
115 34.9 27.7 41.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

1-Methylnaphthalene

Concen: 4.078 ng

RT: 8.96 min Scan# 1169

Delta R.T. -0.01 min

Lab File: BF115756.D

Acq: 25 Jul 2019 13:04

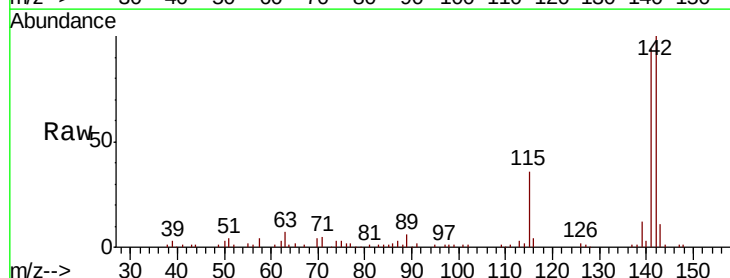
Tgt Ion:142 Resp: 69038

Ion Ratio Lower Upper

142 100

141 94.4 73.9 110.9

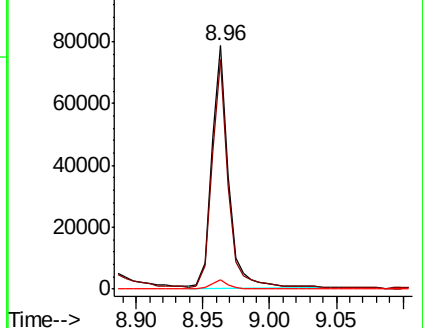
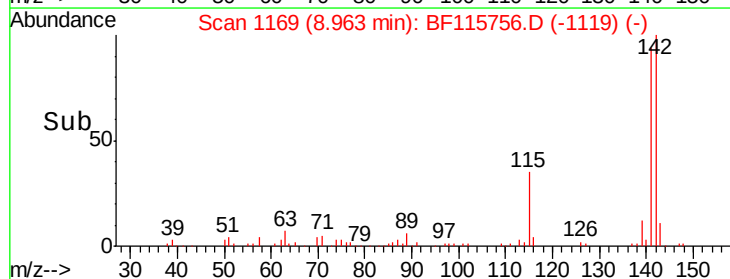
116 3.9 3.0 4.6

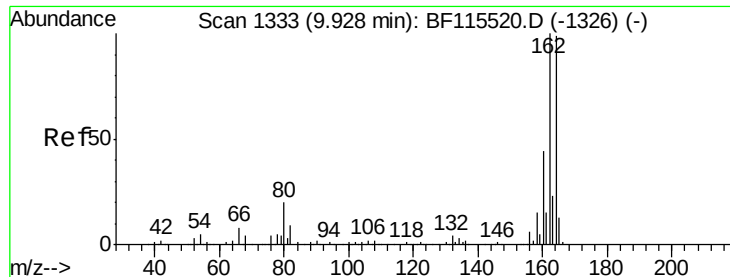


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E

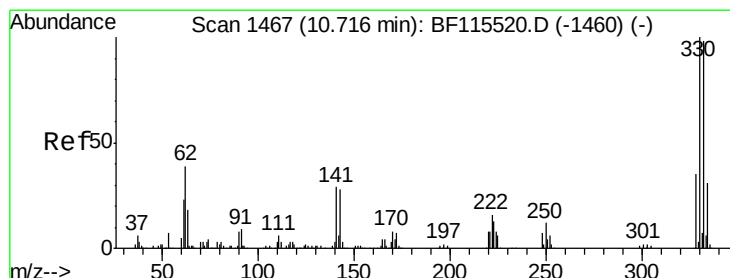
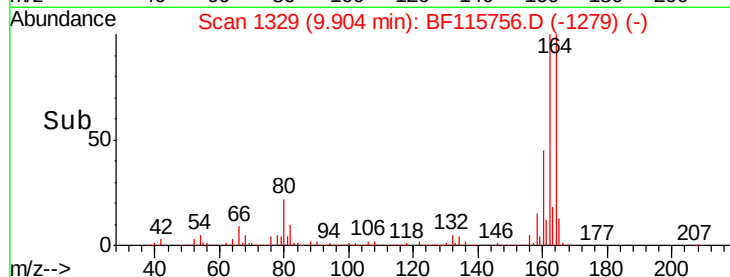
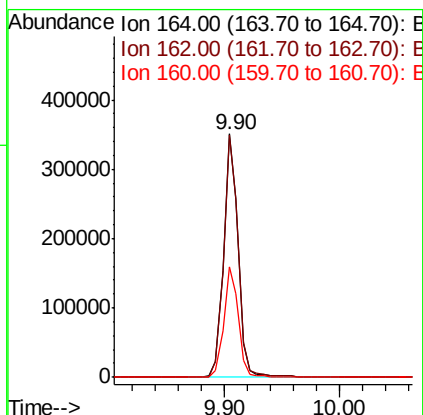
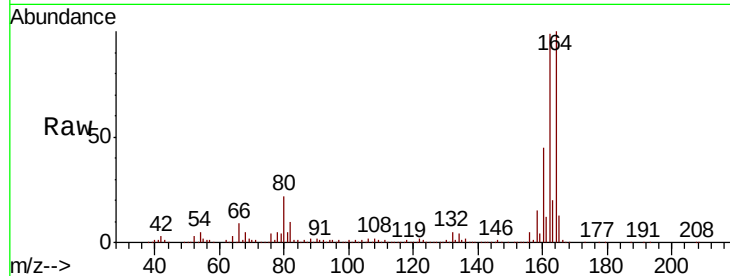




#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.90 min Scan# 1329
 Delta R.T. -0.01 min
 Lab File: BF115756.D
 Acq: 25 Jul 2019 13:04

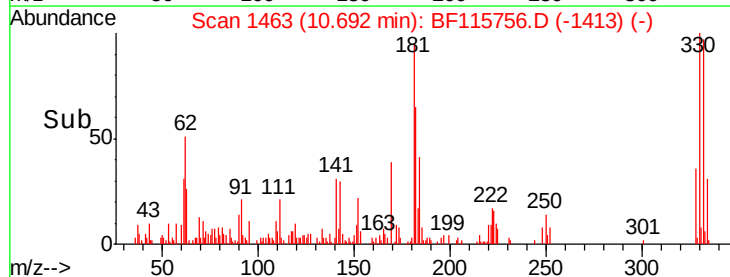
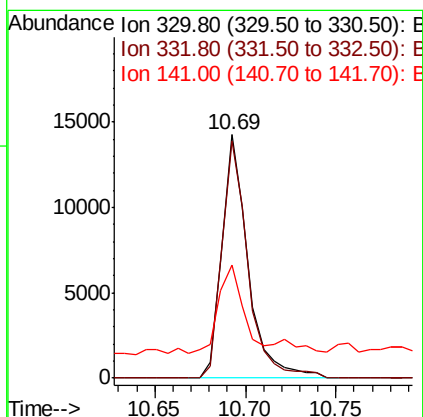
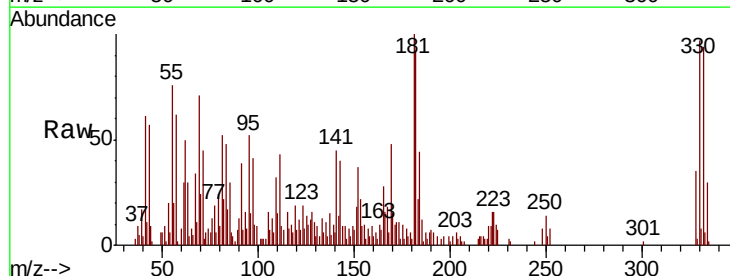
Instrument :
 BNA_F
 ClientSampleID :
 PA-71619DL

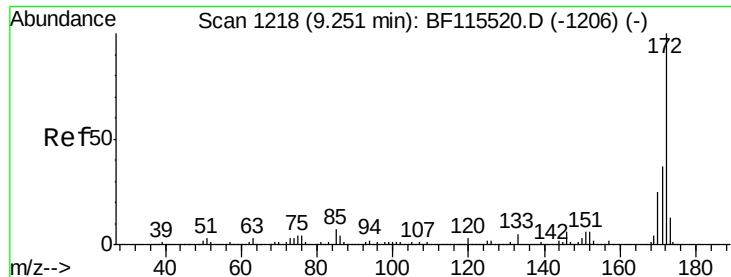
Tot Ion:164 Resp: 306282
 Ion Ratio Lower Upper
 164 100
 162 99.4 81.8 122.6
 160 45.3 37.5 56.3



#42
 2,4,6-Tribromophenol
 Concen: 3.988 ng
 RT: 10.69 min Scan# 1463
 Delta R.T. -0.01 min
 Lab File: BF115756.D
 Acq: 25 Jul 2019 13:04

Tgt Ion:330 Resp: 14258
 Ion Ratio Lower Upper
 330 100
 332 97.9 76.1 114.1
 141 35.5 25.9 38.9

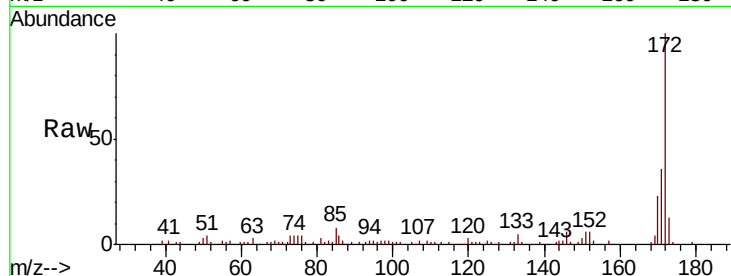




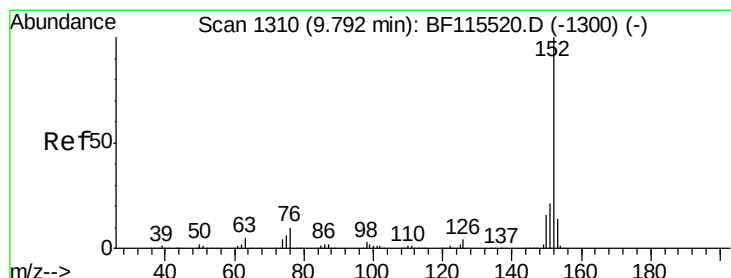
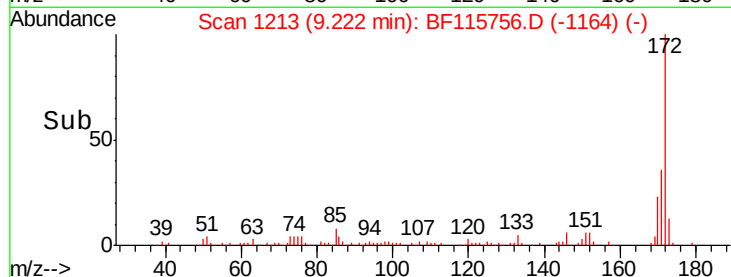
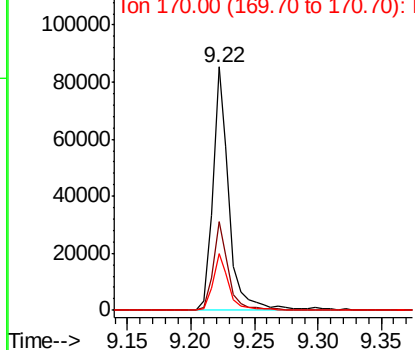
#45
2-Fluorobiphenyl
Concen: 4.388 ng
RT: 9.22 min Scan# 1213
Delta R.T. -0.01 min
Lab File: BF115756.D
Acq: 25 Jul 2019 13:04

Instrument :
BNA_F
ClientSampled :
PA-71619DL

Tot Ion:172 Resp: 76777
Ion Ratio Lower Upper
172 100
171 36.4 29.0 43.4
170 23.2 20.1 30.1

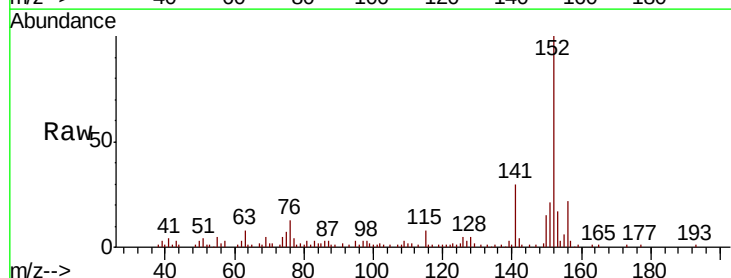


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

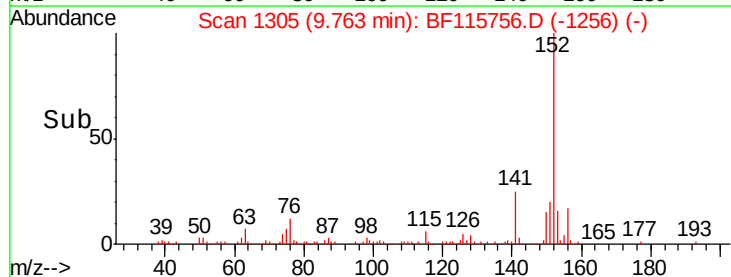
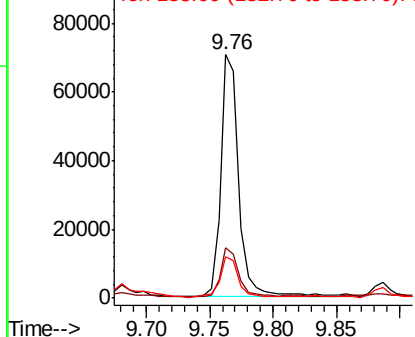


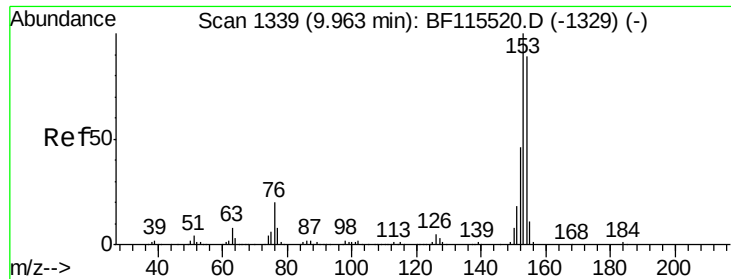
#49
Acenaphthylene
Concen: 2.378 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF115756.D
Acq: 25 Jul 2019 13:04

Tgt Ion:152 Resp: 70257
Ion Ratio Lower Upper
152 100
151 20.6 16.9 25.3
153 17.1 11.5 17.3



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





#52

Acenaphthene

Concen: 2.394 ng

RT: 9.94 min Scan# 1335

Delta R.T. -0.01 min

Lab File: BF115756.D

Acq: 25 Jul 2019 13:04

Instrument :

BNA_F

ClientSampleId :

PA-71619DL

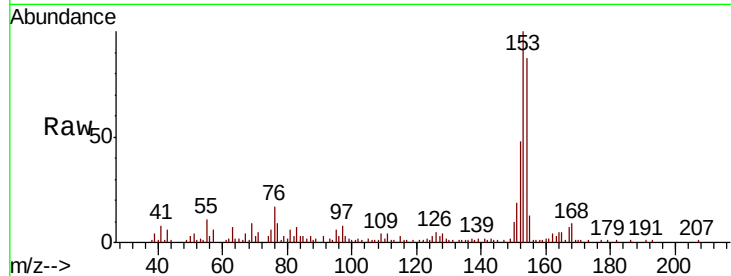
Tot Ion:154 Resp: 45664

Ion Ratio Lower Upper

154 100

153 115.3 88.1 132.1

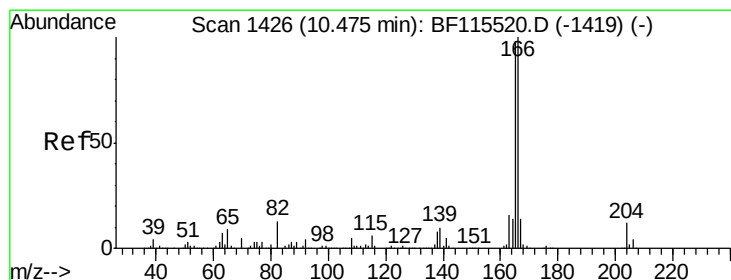
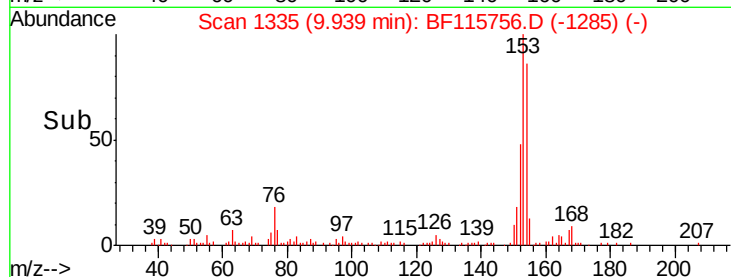
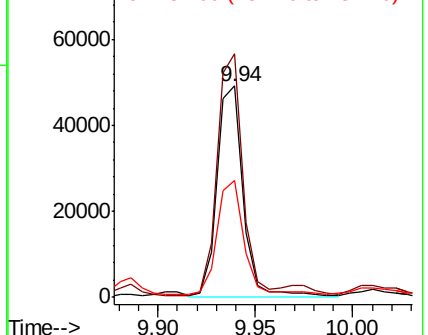
152 55.3 42.0 63.0



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#58

Fluorene

Concen: 5.447 ng

RT: 10.45 min Scan# 1422

Delta R.T. -0.01 min

Lab File: BF115756.D

Acq: 25 Jul 2019 13:04

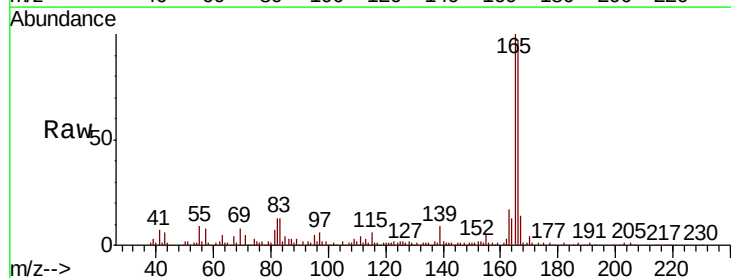
Tgt Ion:166 Resp: 105466

Ion Ratio Lower Upper

166 100

165 102.8 79.0 118.4

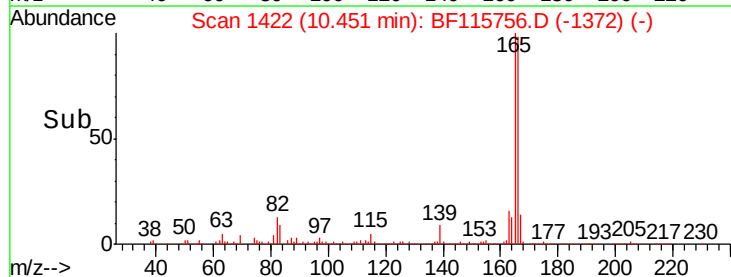
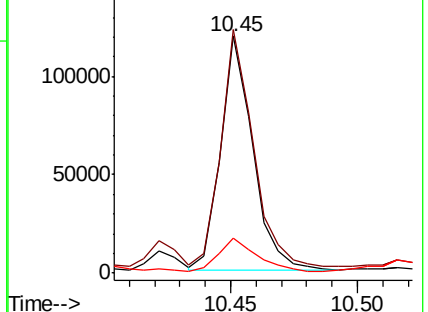
167 14.8 11.0 16.6

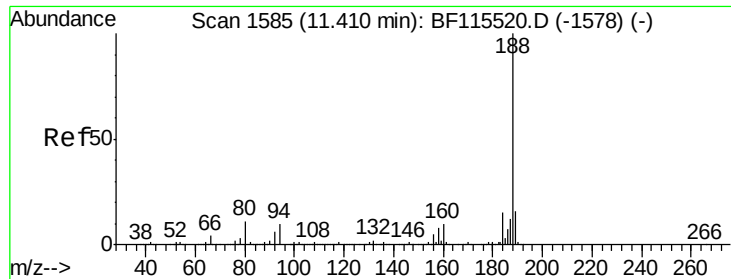


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

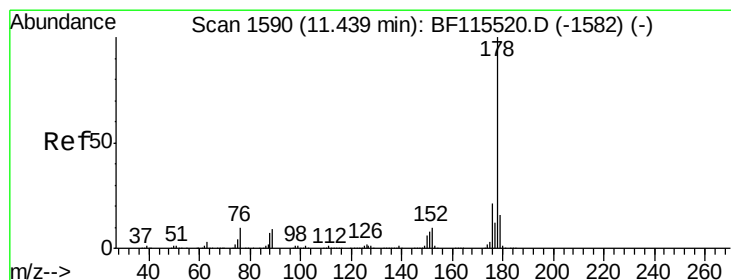
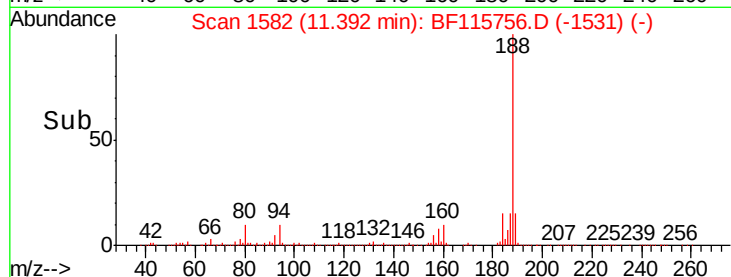
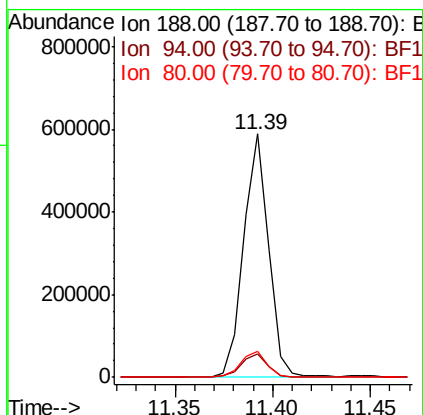
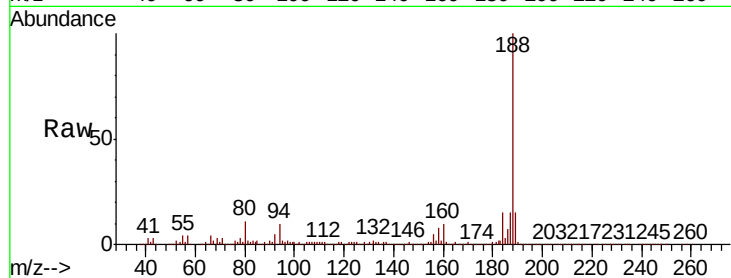




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.39 min Scan# 1582
Delta R.T. 0.00 min
Lab File: BF115756.D
Acq: 25 Jul 2019 13:04

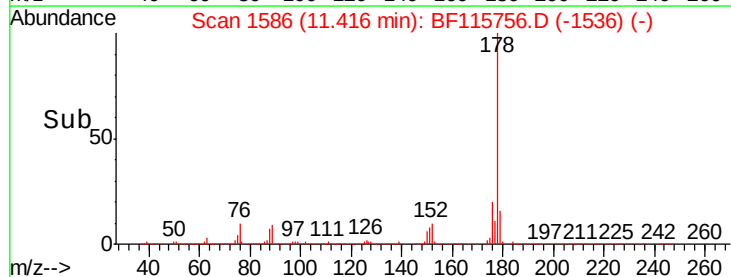
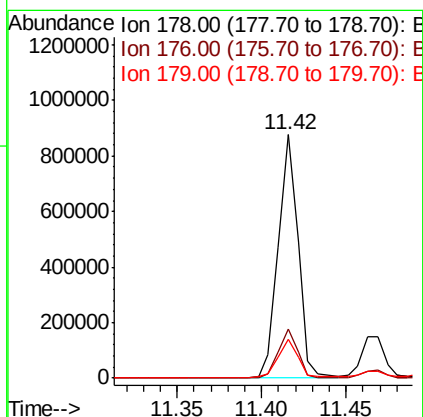
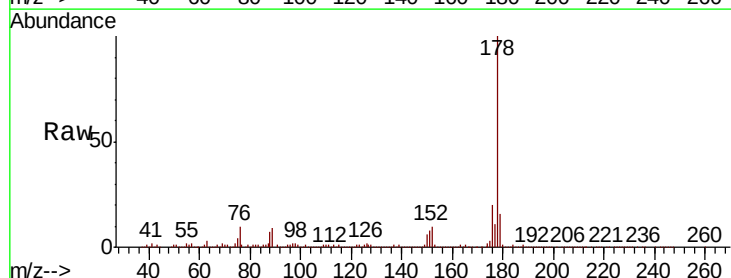
Instrument :
BNA_F
ClientSampleId :
PA-71619DL

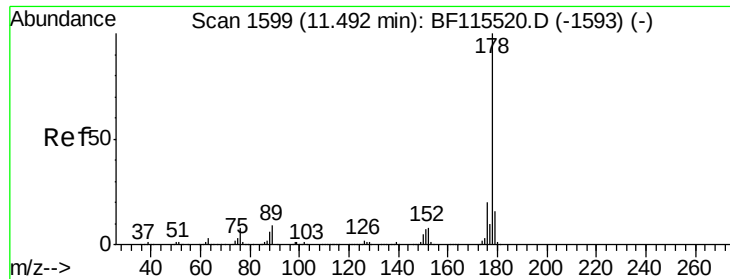
Tot Ion:188 Resp: 521333
Ion Ratio Lower Upper
188 100
94 9.8 8.2 12.2
80 10.5 9.0 13.6



#71
Phenanthrene
Concen: 26.569 ng
RT: 11.42 min Scan# 1586
Delta R.T. -0.01 min
Lab File: BF115756.D
Acq: 25 Jul 2019 13:04

Tgt Ion:178 Resp: 709994
Ion Ratio Lower Upper
178 100
176 20.0 16.4 24.6
179 15.9 12.7 19.1

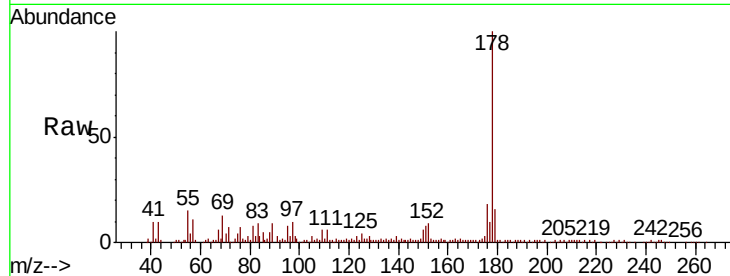




#72
 Anthracene
 Concen: 4.790 ng
 RT: 11.47 min Scan# 1595
 Delta R.T. -0.01 min
 Lab File: BF115756.D
 Acq: 25 Jul 2019 13:04

Instrument :
 BNA_F
 ClientSampleId :
 PA-71619DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.0	16.1	24.1
179	16.3	12.6	18.8

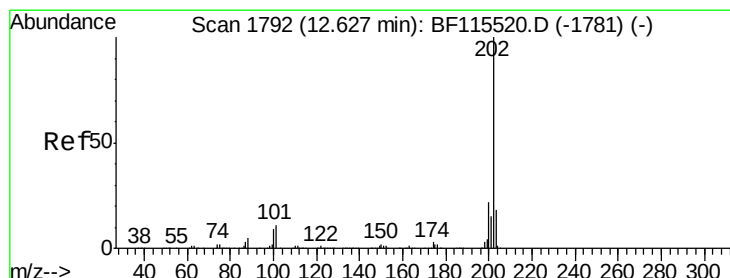
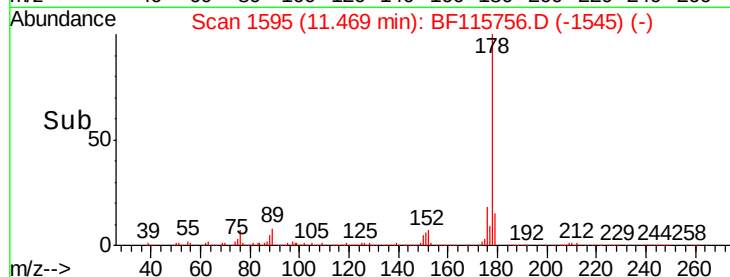
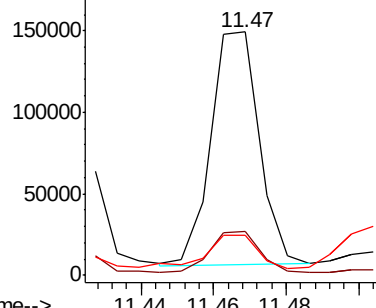


Abundance

Ion 178.00 (177.70 to 178.70): E

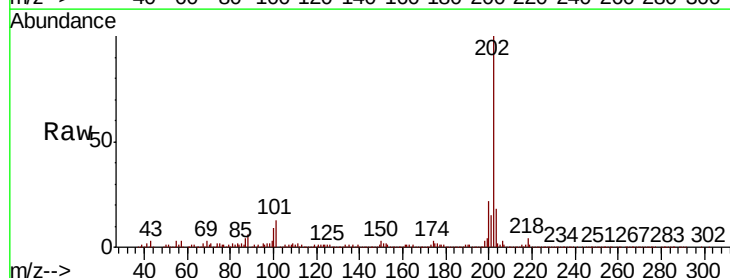
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75
 Fluoranthene
 Concen: 20.009 ng
 RT: 12.60 min Scan# 1788
 Delta R.T. -0.01 min
 Lab File: BF115756.D
 Acq: 25 Jul 2019 13:04

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.0	0.0	31.6
203	18.3	0.0	38.0

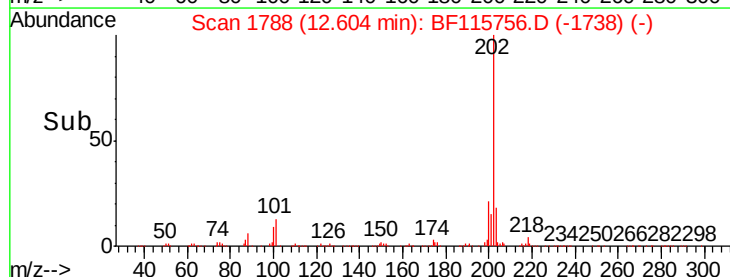
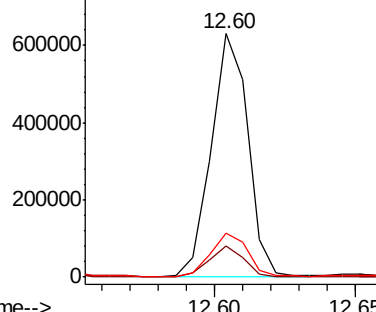


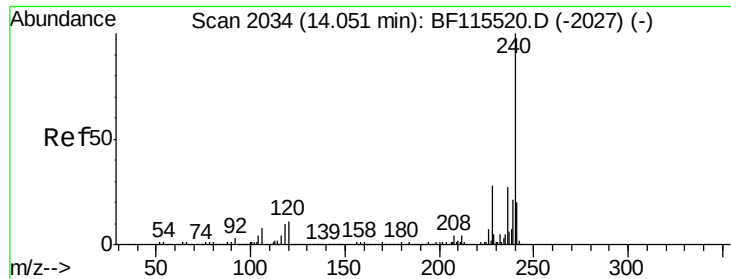
Abundance

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

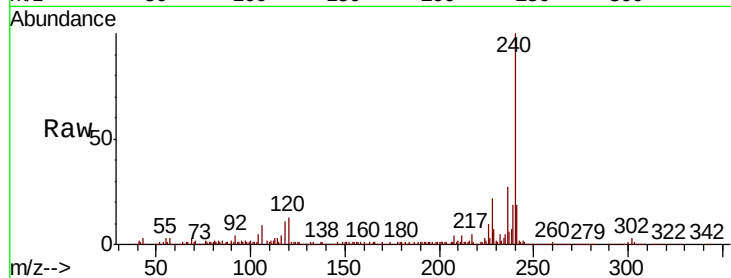




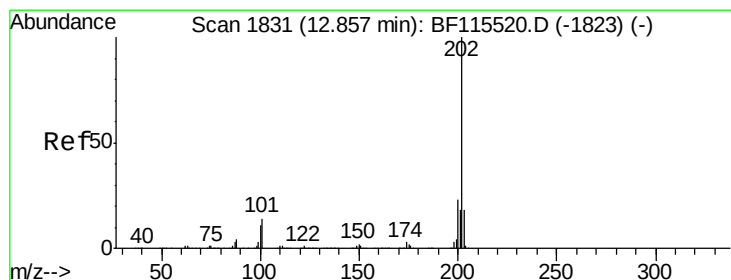
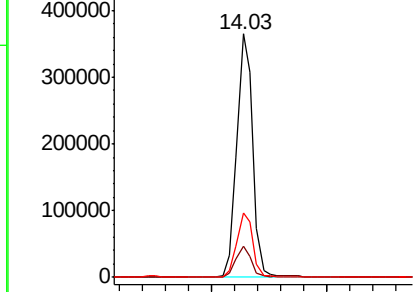
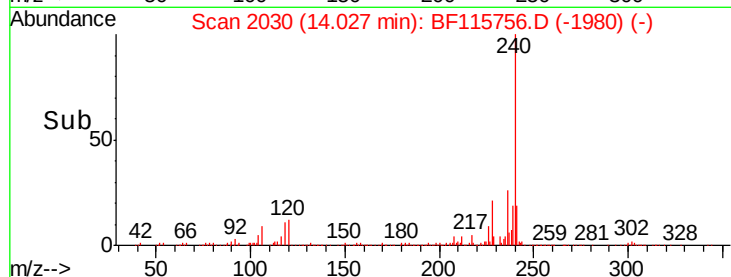
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.03 min Scan# 2030
Delta R.T. -0.01 min
Lab File: BF115756.D
Acq: 25 Jul 2019 13:04

Instrument :
BNA_F
ClientSampleId :
PA-71619DL

Tot Ion:240 Resp: 345361
Ion Ratio Lower Upper
240 100
120 12.6 10.0 15.0
236 26.7 21.8 32.6

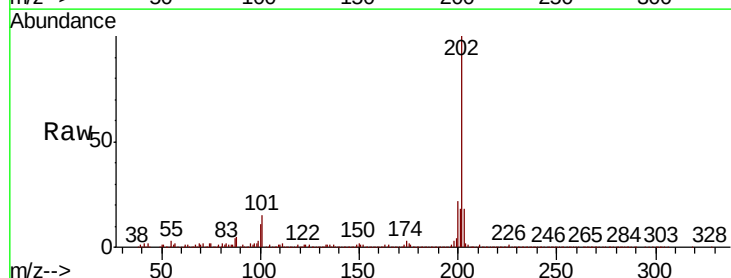


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

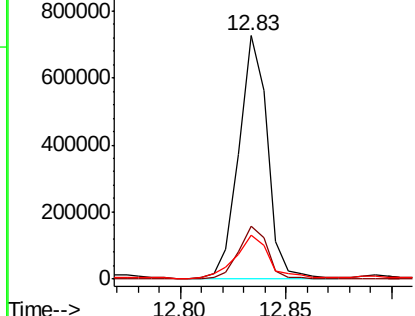
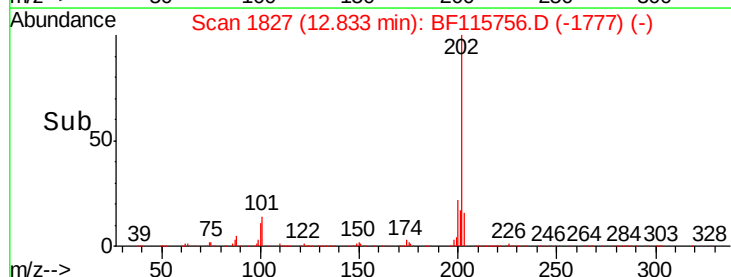


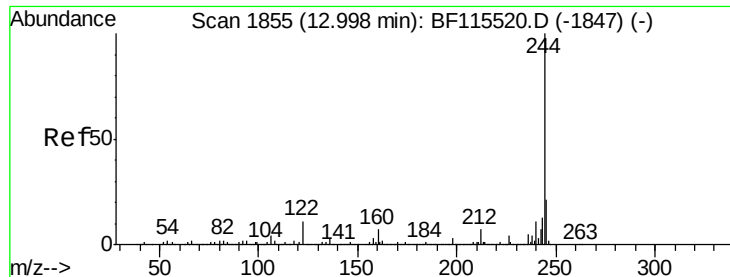
#78
Pyrene
Concen: 22.999 ng
RT: 12.83 min Scan# 1827
Delta R.T. -0.01 min
Lab File: BF115756.D
Acq: 25 Jul 2019 13:04

Tgt Ion:202 Resp: 672968
Ion Ratio Lower Upper
202 100
200 21.7 18.2 27.4
203 18.1 14.6 21.8



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: 4.413 ng

RT: 12.97 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BF115756.D

Acq: 25 Jul 2019 13:04

Instrument :

BNA_F

ClientSampleId :

PA-71619DL

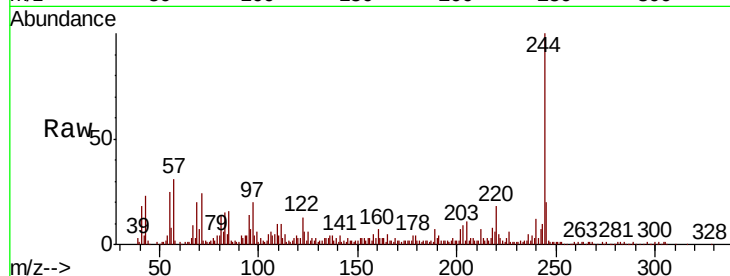
Tot Ion:244 Resp: 82594

Ion Ratio Lower Upper

244 100

212 6.9 5.5 8.3

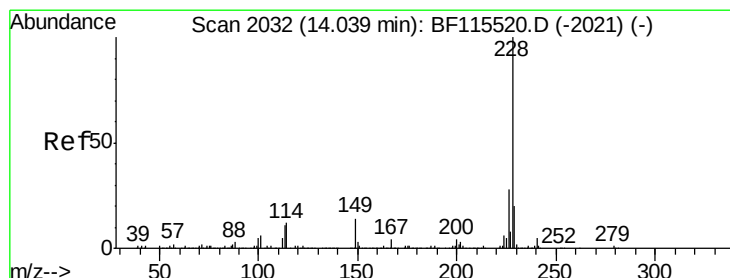
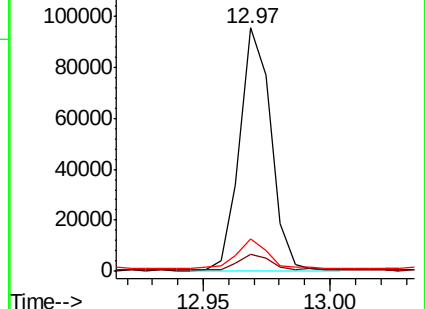
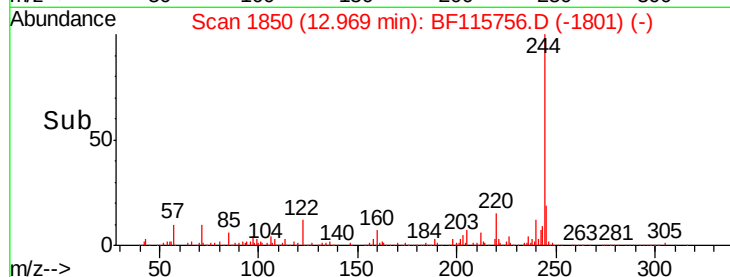
122 13.2 8.2 12.4#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 10.286 ng

RT: 14.02 min Scan# 2028

Delta R.T. -0.01 min

Lab File: BF115756.D

Acq: 25 Jul 2019 13:04

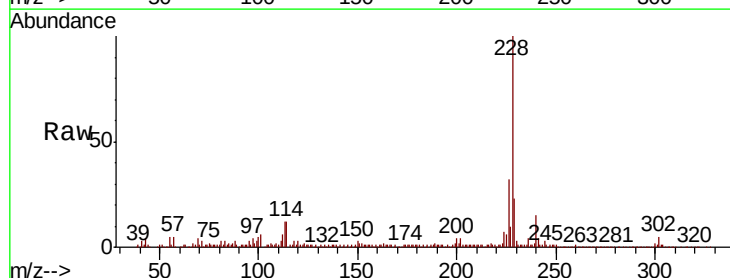
Tgt Ion:228 Resp: 234031

Ion Ratio Lower Upper

228 100

226 32.0 22.2 33.2

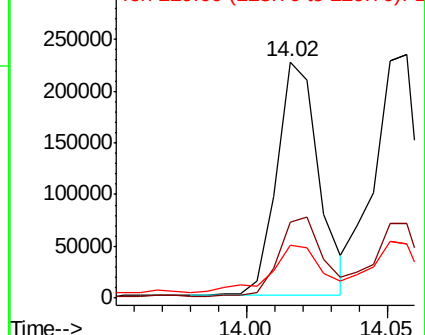
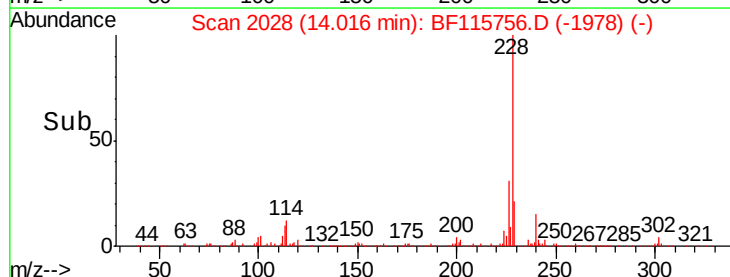
229 22.6 16.1 24.1

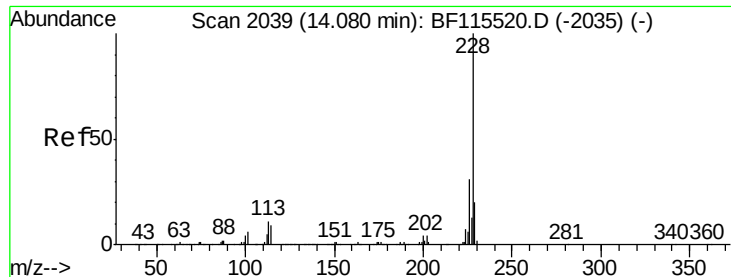


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 11.084 ng

RT: 14.06 min Scan# 2035

Delta R.T. -0.01 min

Lab File: BF115756.D

Acq: 25 Jul 2019 13:04

Instrument :

BNA_F

ClientSampleId :

PA-71619DL

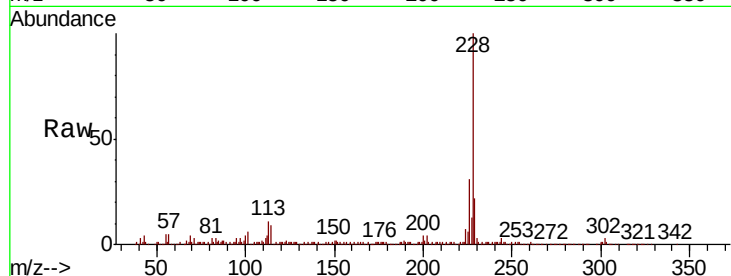
Tot Ion:228 Resp: 253173

Ion Ratio Lower Upper

228 100

226 30.7 25.0 37.4

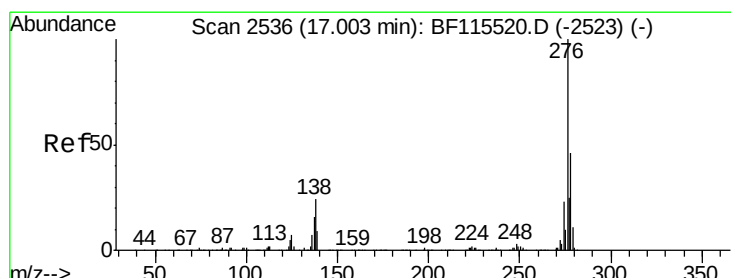
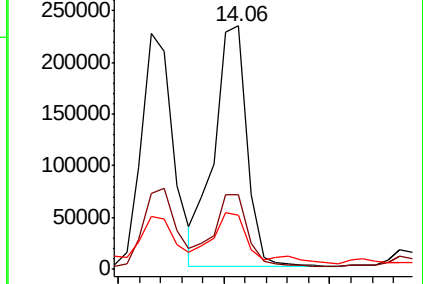
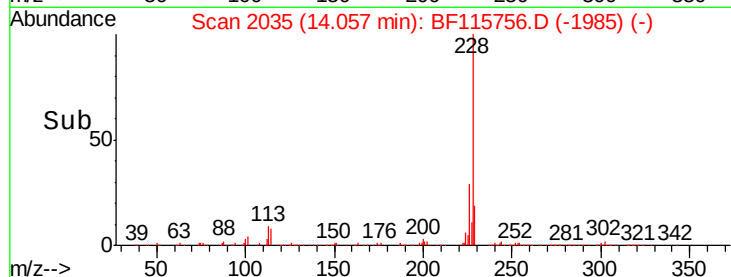
229 22.4 16.2 24.2



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 6.830 ng

RT: 16.97 min Scan# 2530

Delta R.T. -0.01 min

Lab File: BF115756.D

Acq: 25 Jul 2019 13:04

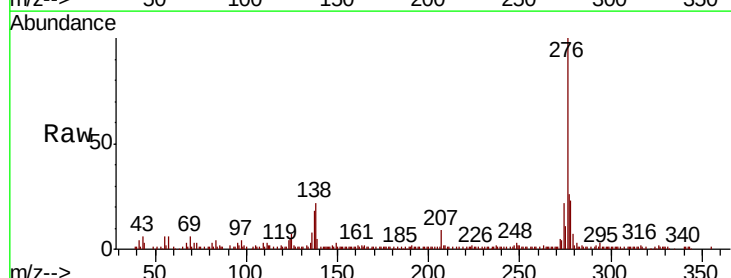
Tgt Ion:276 Resp: 132533

Ion Ratio Lower Upper

276 100

138 21.3 20.1 30.1

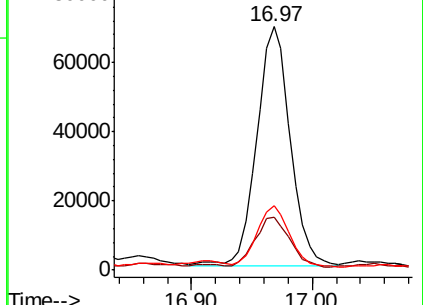
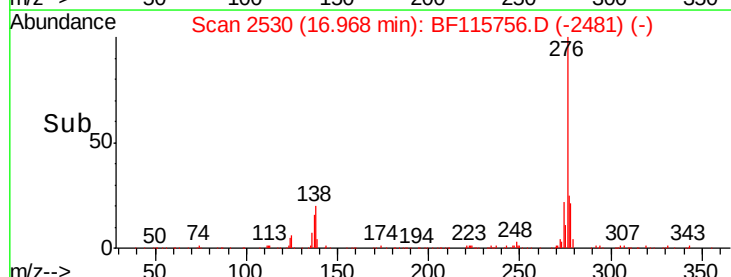
277 24.8 19.8 29.8

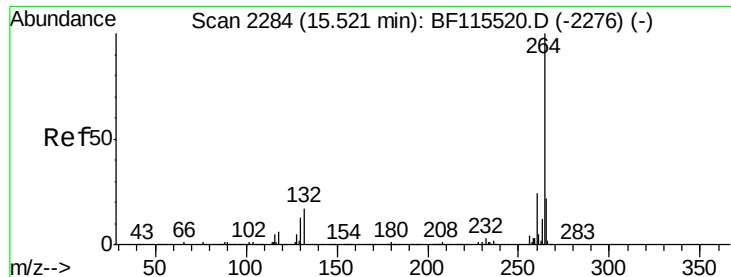


Abundance Ion 276.00 (275.70 to 276.70): E

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: 15.50 min Scan# 2280

Delta R.T. 0.00 min

Lab File: BF115756.D

Acq: 25 Jul 2019 13:04

Instrument :

BNA_F

ClientSampleId :

PA-71619DL

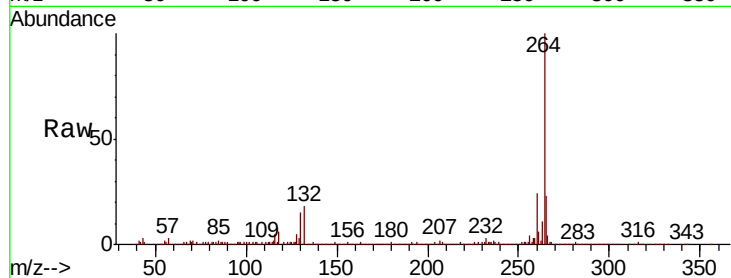
Tot Ion:264 Resp: 415795

Ion Ratio Lower Upper

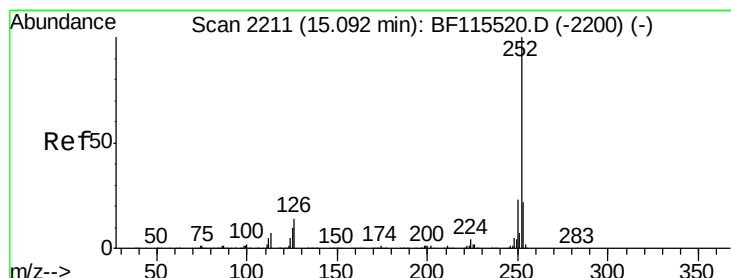
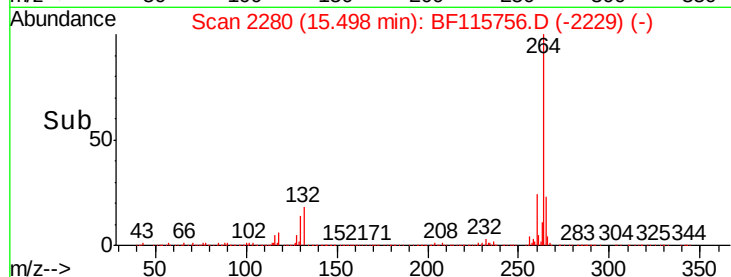
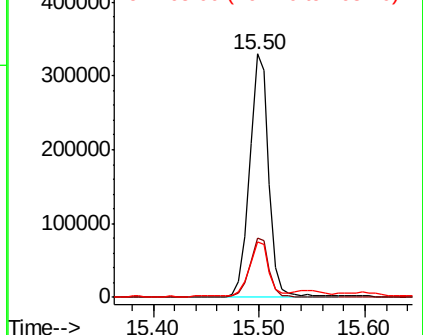
264 100

260 24.2 19.8 29.6

265 22.9 17.5 26.3



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: 12.370 ng

RT: 15.07 min Scan# 2207

Delta R.T. -0.01 min

Lab File: BF115756.D

Acq: 25 Jul 2019 13:04

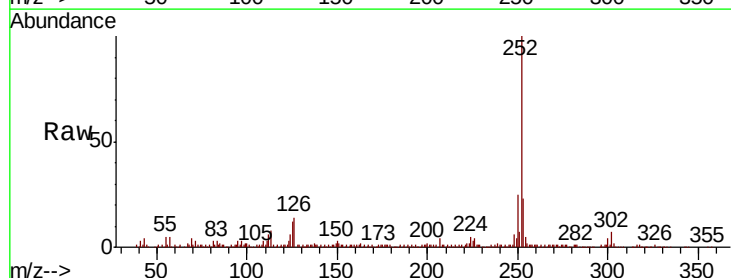
Tgt Ion:252 Resp: 331193

Ion Ratio Lower Upper

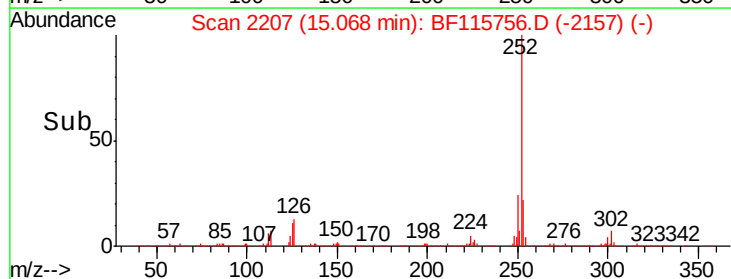
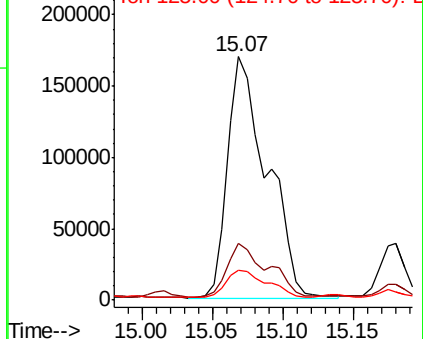
252 100

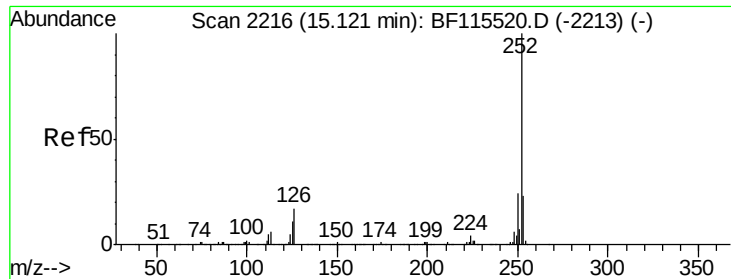
253 23.2 17.8 26.8

125 12.2 8.4 12.6



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

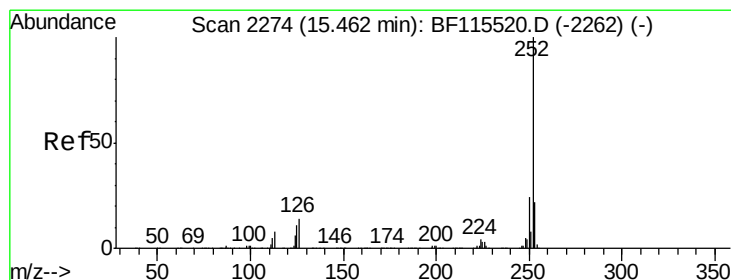
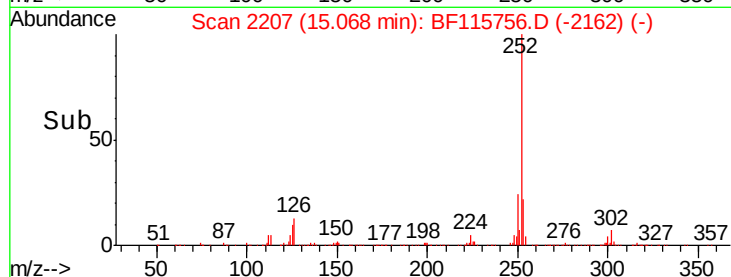
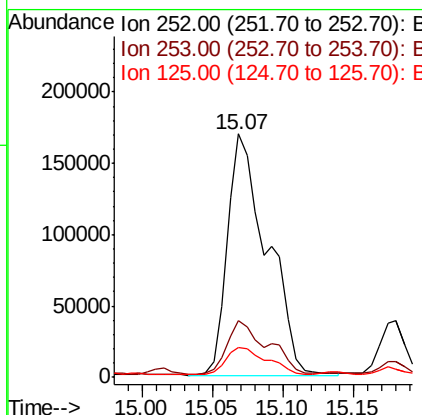
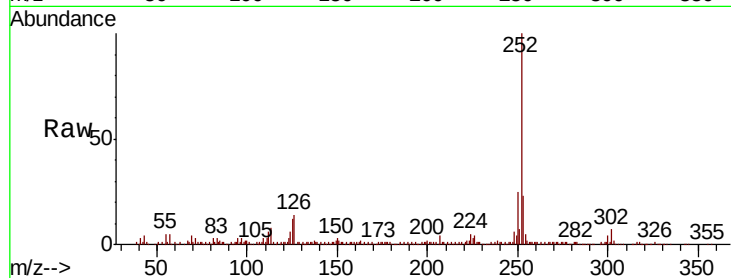




#89
Benzo(k)fluoranthene
Concen: 13.875 ng
RT: 15.07 min Scan# 2207
Delta R.T. -0.04 min
Lab File: BF115756.D
Acq: 25 Jul 2019 13:04

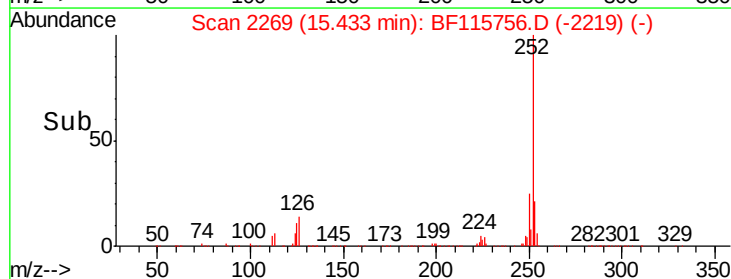
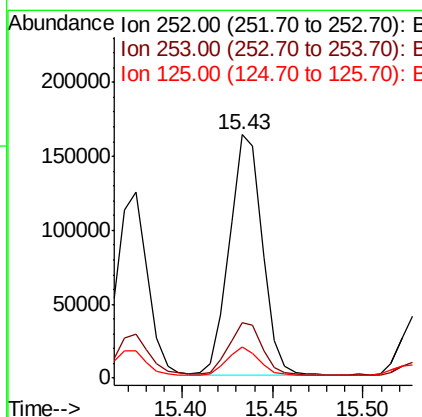
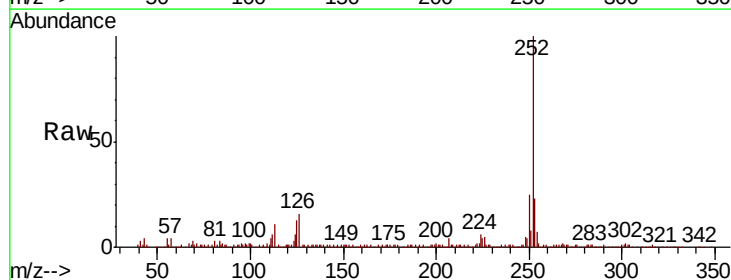
Instrument :
BNA_F
ClientSampleId :
PA-71619DL

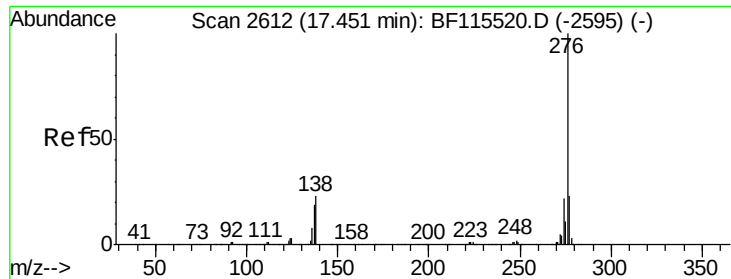
Tot Ion:252 Resp: 331193
Ion Ratio Lower Upper
252 100
253 23.2 18.1 27.1
125 12.2 8.6 13.0



#90
Benzo(a)pyrene
Concen: 9.023 ng
RT: 15.43 min Scan# 2269
Delta R.T. -0.01 min
Lab File: BF115756.D
Acq: 25 Jul 2019 13:04

Tgt Ion:252 Resp: 207626
Ion Ratio Lower Upper
252 100
253 22.9 17.3 25.9
125 12.6 9.4 14.2





#92
 Benzo(a,h,i)perylene
 Concen: 6.972 ng
 RT: 17.42 min Scan# 2606
 Delta R.T. -0.01 min
 Lab File: BF115756.D
 Acq: 25 Jul 2019 13:04

Instrument :
 BNA_F
 ClientSampleId :
 PA-71619DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.9	18.1	27.1
138	21.8	16.6	24.8

