

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072219\
 Data File : BF115714.D
 Acq On : 22 Jul 2019 17:26
 Operator : HP/JU
 Sample : K3887-01DL2 10X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 23 01:17:37 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 12 14:03:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	140616	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	549909	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	254244	20.00	ng	-0.01
64) Phenanthrene-d10	11.40	188	401009	20.00	ng	0.00
76) Chrysene-d12	14.05	240	348026	20.00	ng	0.00
87) Perylene-d12	15.53	264	345239	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	61847	7.19	ng	0.00
7) Phenol-d6	6.50	99	87760	8.05	ng	-0.01
23) Nitrobenzene-d5	7.43	82	48287	5.11	ng	-0.02
42) 2,4,6-Tribromophenol	10.70	330	17923	6.04	ng	-0.01
45) 2-Fluorobiphenyl	9.23	172	80791	5.56	ng	-0.02
79) Terphenyl-d14	12.99	244	69517	3.69	ng	-0.01

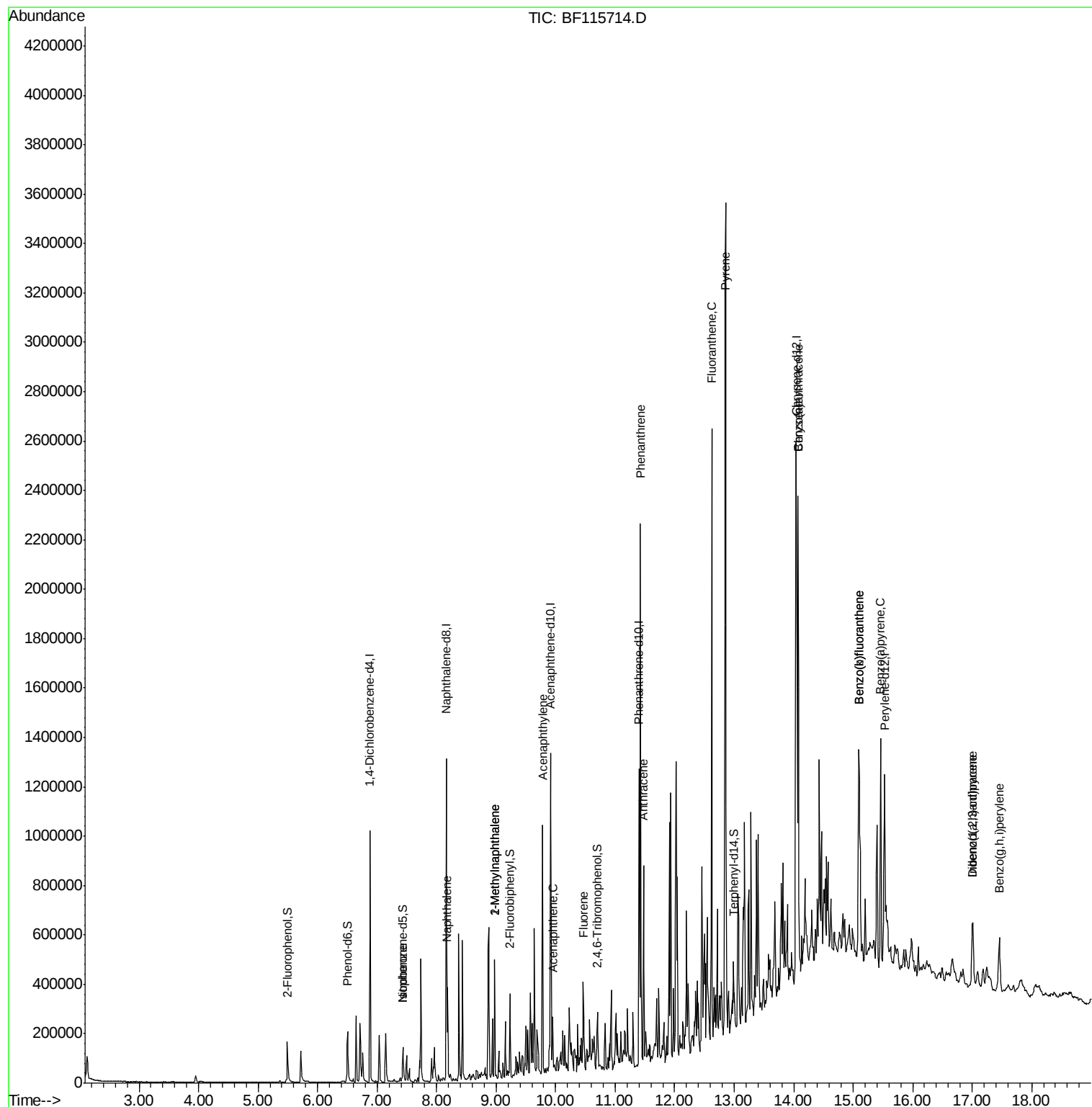
Target Compounds				Qvalue		
25) Isophorone	7.43	82	48286	2.552	ng	# 64
31) Naphthalene	8.19	128	169761	6.374	ng	96
37) 2-Methylnaphthalene	8.97	142	92868	5.261	ng	99
38) 1-Methylnaphthalene	8.97	142	92868	5.538	ng	# 97
49) Acenaphthylene	9.78	152	408376	16.652	ng	96
52) Acenaphthene	9.95	154	35307	2.230	ng	96
58) Fluorene	10.46	166	111723	6.951	ng	100
71) Phenanthrene	11.43	178	805845	39.204	ng	98
72) Anthracene	11.48	178	291465	13.720	ng	98
75) Fluoranthene	12.62	202	871846	40.137	ng	99
78) Pyrene	12.86	202	1450338	49.187	ng	98
81) Benzo(a)anthracene	14.07	228	670199	29.231	ng	98
83) Chrysene	14.07	228	670199	29.118	ng	98
86) Indeno(1,2,3-cd)pyrene	17.01	276	169288	8.657	ng	97
88) Benzo(b)fluoranthene	15.10	252	666211	29.968	ng	98
89) Benzo(k)fluoranthene	15.10	252	666211	33.613	ng	98
90) Benzo(a)pyrene	15.46	252	411304	21.526	ng	98
91) Dibenzo(a,h)anthracene	17.02	278	55290	3.296	ng	# 92
92) Benzo(a,h,i)perylene	17.46	276	170270	10.178	ng	97

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

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QLast Update : Fri Jul 12 14:03:52 2019
Response via : Initial Calibration



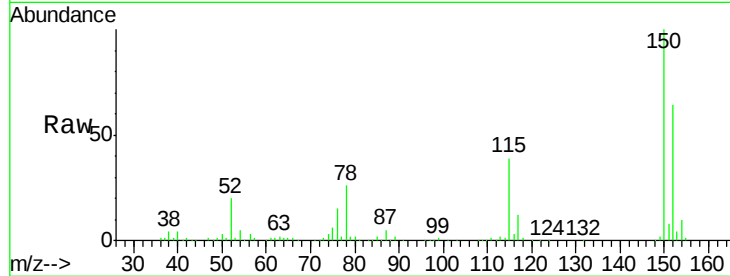


#1

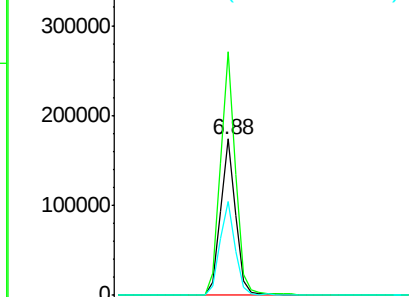
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.88 min Scan# 815
Delta R.T. -0.01 min
Lab File: BF115714.D
Acq: 22 Jul 2019 17:26

Instrument :
BNA_F
ClientSampleId :

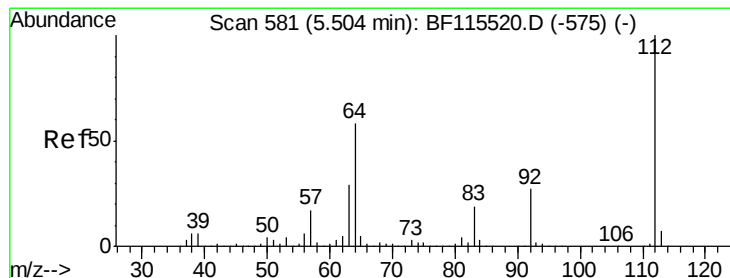
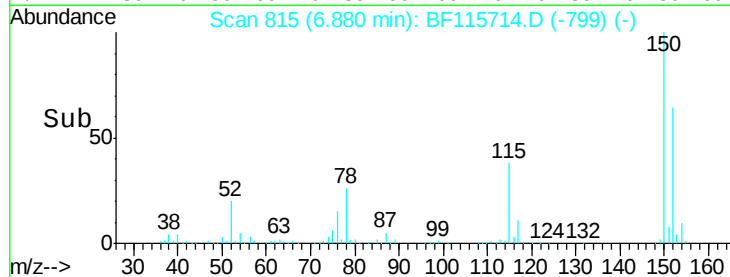
Tot Ion:152 Resp: 140616
Ion Ratio Lower Upper
152 100
150 156.1 129.7 194.5
115 60.4 48.2 72.4



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



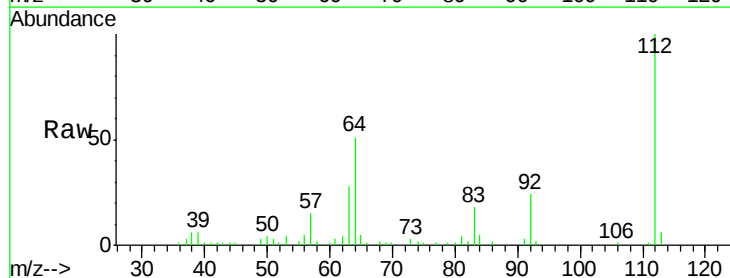
Time--> 6.80 6.85 6.90 6.95 7.00



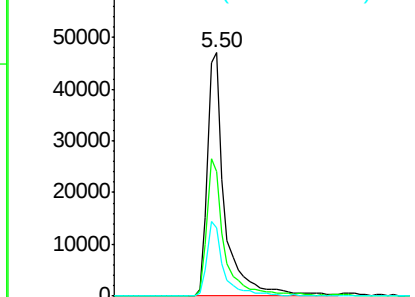
#5

2-Fluorophenol
Concen: 7.194 ng
RT: 5.50 min Scan# 580
Delta R.T. -0.01 min
Lab File: BF115714.D
Acq: 22 Jul 2019 17:26

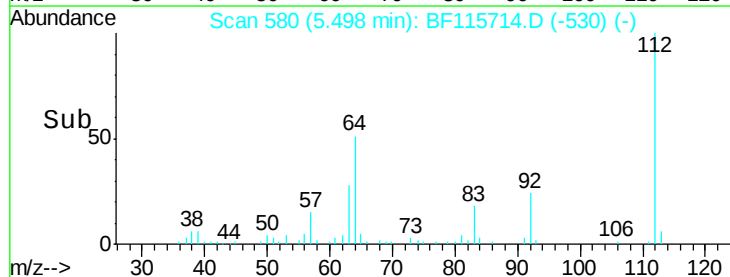
Tgt Ion:112 Resp: 61847
Ion Ratio Lower Upper
112 100
64 51.4 46.8 70.2
63 28.1 24.1 36.1

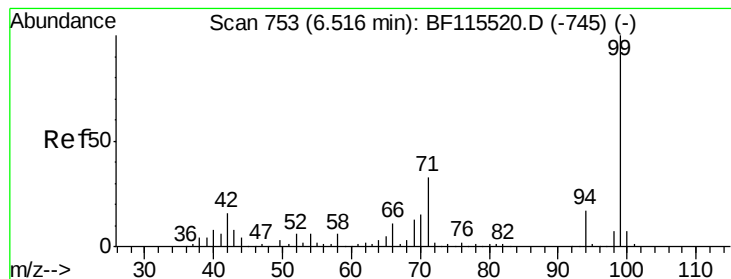


Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1



Time--> 5.40 5.50 5.60





#7

Phenol-d6

Concen: 8.045 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.01 min

Lab File: BF115714.D

Acq: 22 Jul 2019 17:26

Instrument :

BNA_F

ClientSampleId :

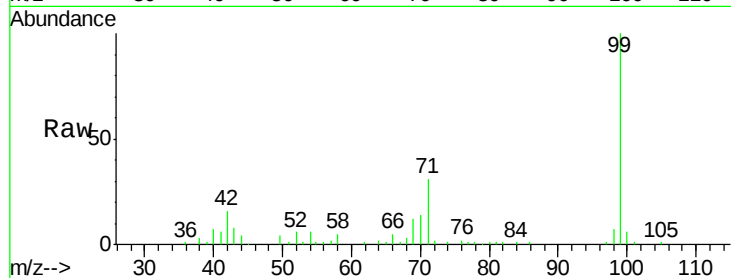
Tot Ion: 99 Resp: 87760

Ion Ratio Lower Upper

99 100

42 15.9 13.6 20.4

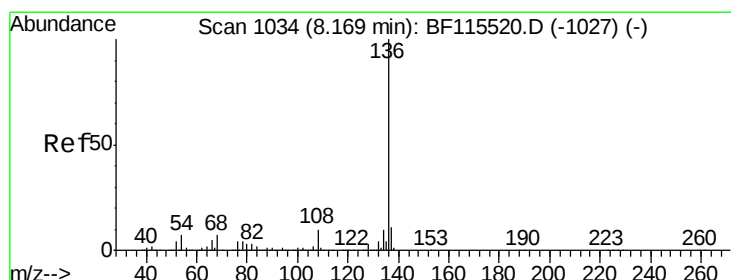
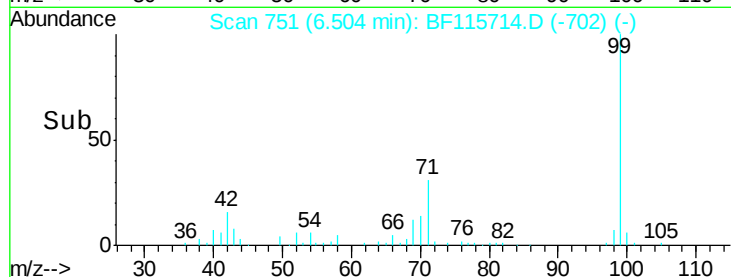
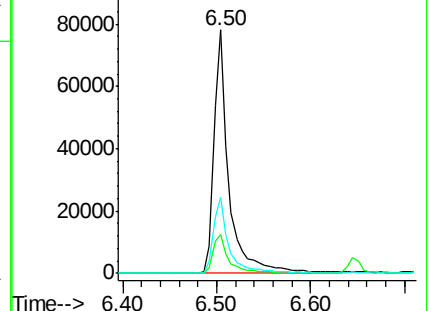
71 31.1 28.5 42.7



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.16 min Scan# 1033

Delta R.T. -0.01 min

Lab File: BF115714.D

Acq: 22 Jul 2019 17:26

Tgt Ion: 136 Resp: 549909

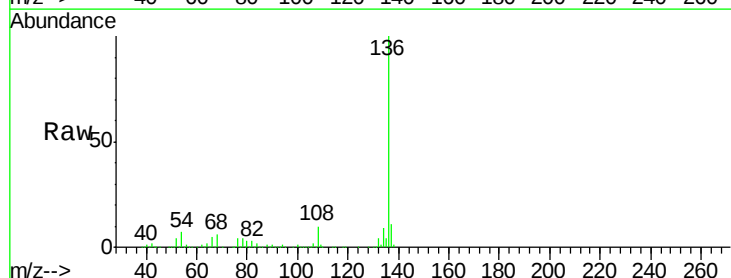
Ion Ratio Lower Upper

136 100

137 11.0 9.0 13.4

54 7.0 5.6 8.4

68 6.3 5.0 7.6

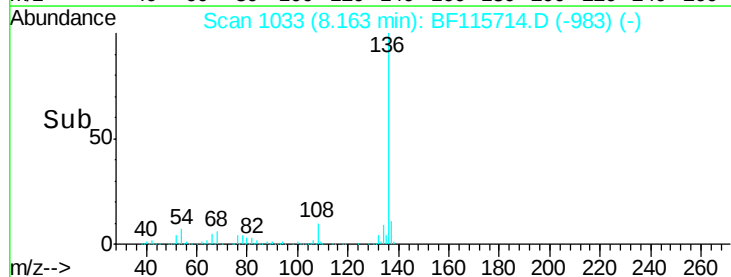
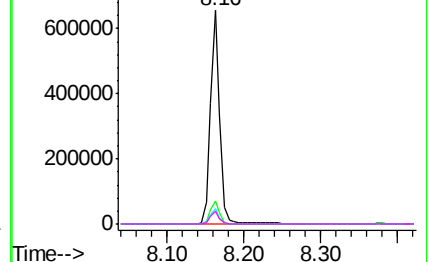


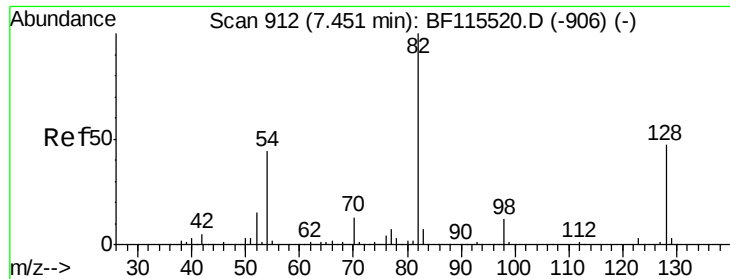
Abundance Ion 136.00 (135.70 to 136.70): E

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

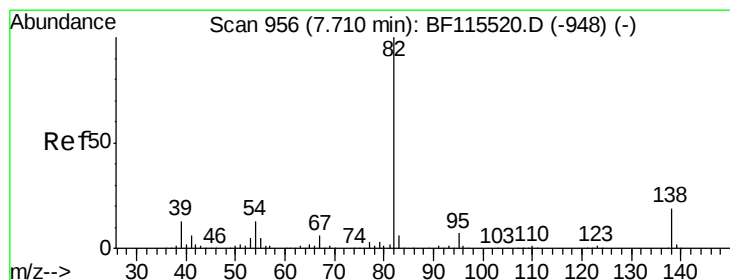
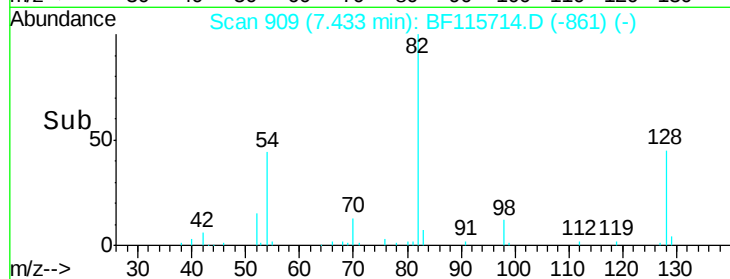
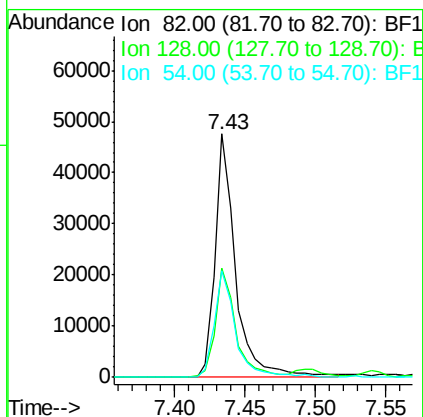
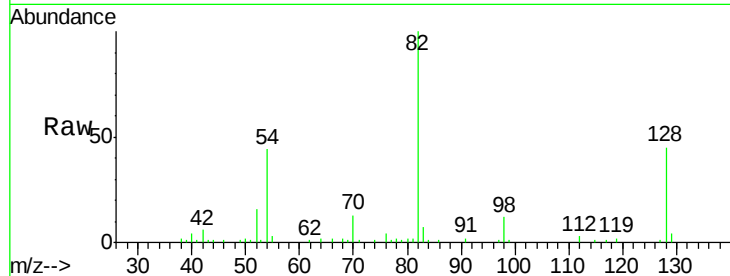




#23
 Nitrobenzene-d5
 Concen: 5.106 ng
 RT: 7.43 min Scan# 909
 Delta R.T. -0.02 min
 Lab File: BF115714.D
 Acq: 22 Jul 2019 17:26

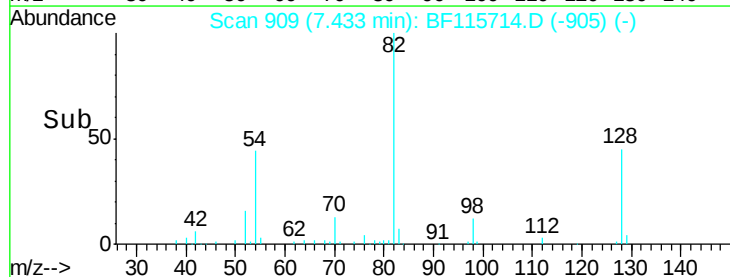
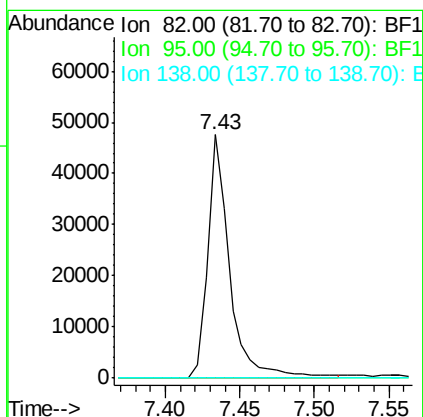
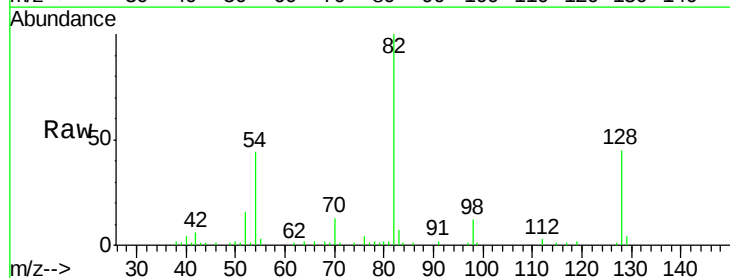
Instrument :
 BNA_F
 ClientSampleId :

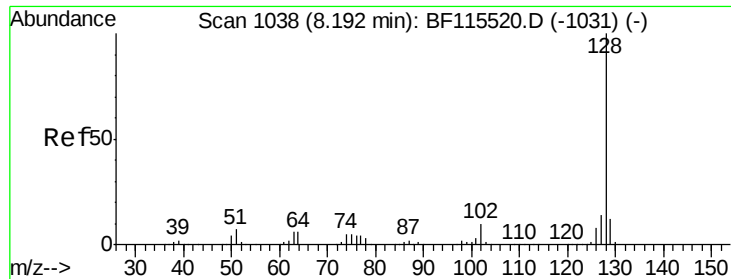
Tot Ion: 82 Resp: 48287
 Ion Ratio Lower Upper
 82 100
 128 45.1 38.6 57.8
 54 43.7 35.6 53.4



#25
 Isophorone
 Concen: 2.552 ng
 RT: 7.43 min Scan# 909
 Delta R.T. -0.28 min
 Lab File: BF115714.D
 Acq: 22 Jul 2019 17:26

Tgt Ion: 82 Resp: 48286
 Ion Ratio Lower Upper
 82 100
 95 0.0 5.5 8.3#
 138 0.0 14.9 22.3#

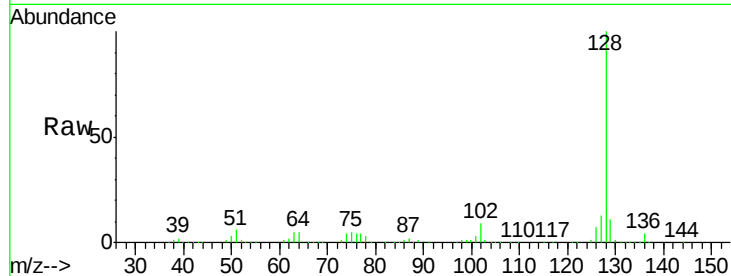




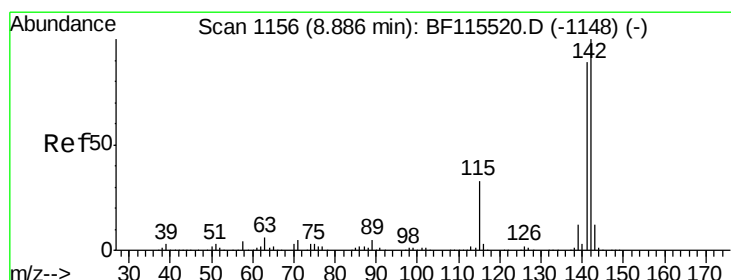
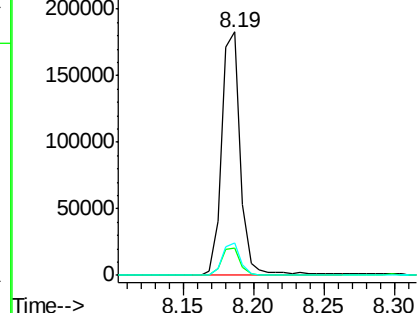
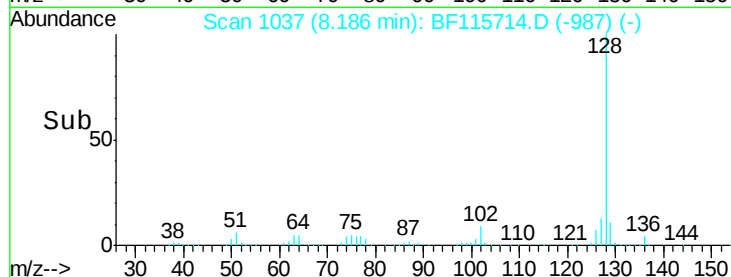
#31
Naphthalene
Concen: 6.374 ng
RT: 8.19 min Scan# 1037
Delta R.T. -0.01 min
Lab File: BF115714.D
Acq: 22 Jul 2019 17:26

Instrument :
BNA_F
ClientSampled :

Tot Ion:128 Resp: 169761
Ion Ratio Lower Upper
128 100
129 11.2 9.9 14.9
127 13.1 12.1 18.1

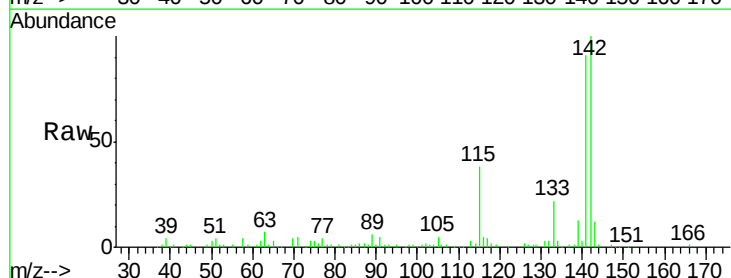


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

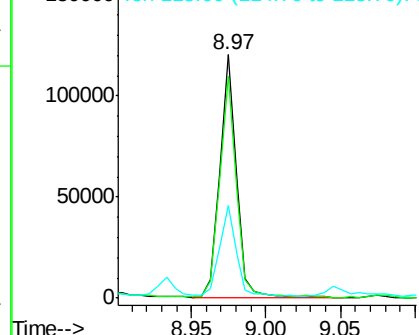
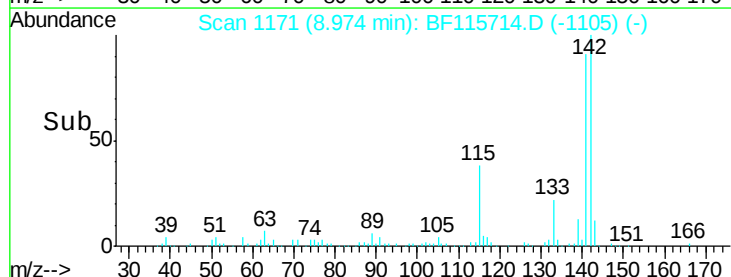


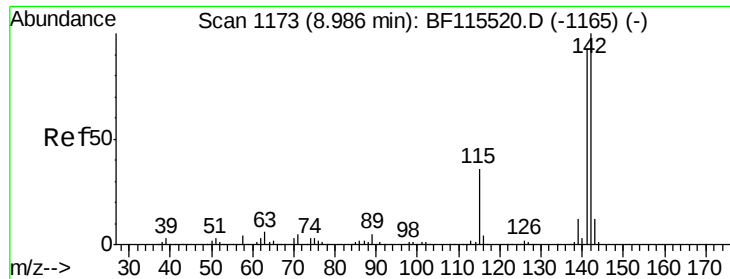
#37
2-Methylnaphthalene
Concen: 5.261 ng
RT: 8.97 min Scan# 1171
Delta R.T. 0.09 min
Lab File: BF115714.D
Acq: 22 Jul 2019 17:26

Tgt Ion:142 Resp: 92868
Ion Ratio Lower Upper
142 100
141 91.3 72.0 108.0
115 38.2 29.9 44.9



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

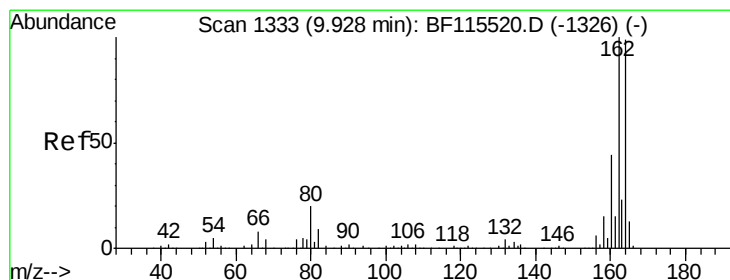
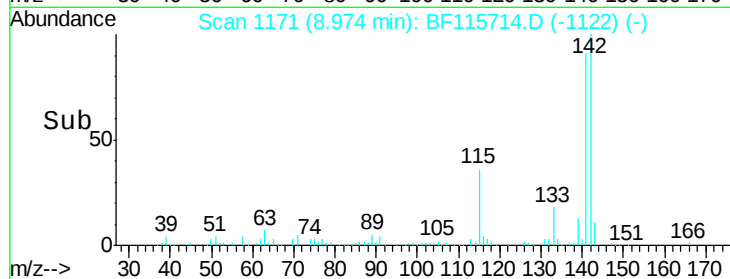
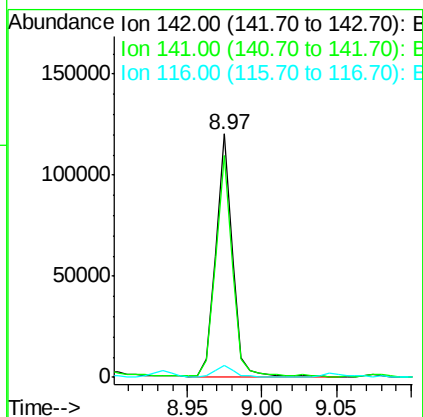
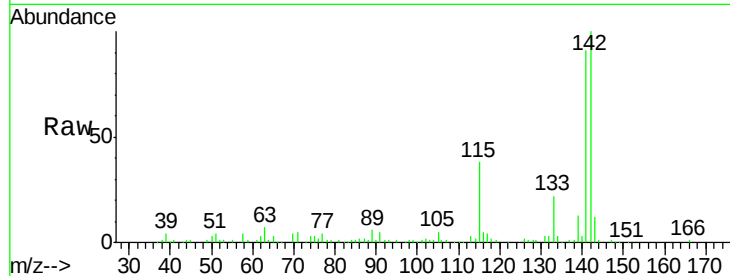




#38
1-Methylnaphthalene
Concen: 5.538 ng
RT: 8.97 min Scan# 1171
Delta R.T. -0.01 min
Lab File: BF115714.D
Acq: 22 Jul 2019 17:26

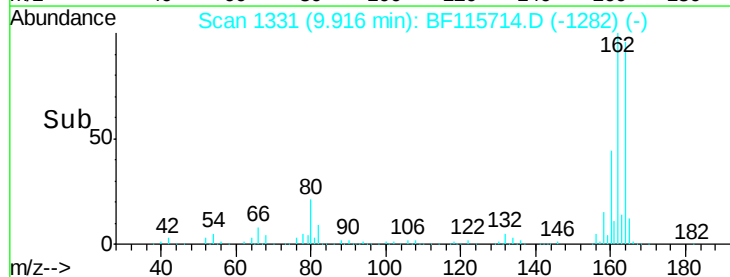
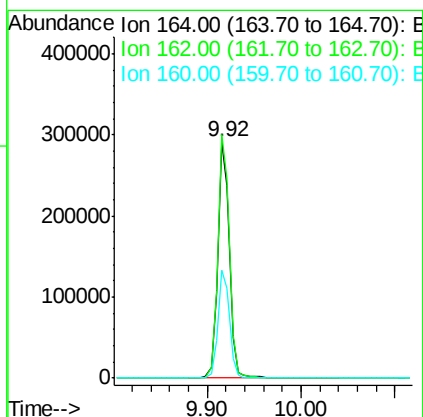
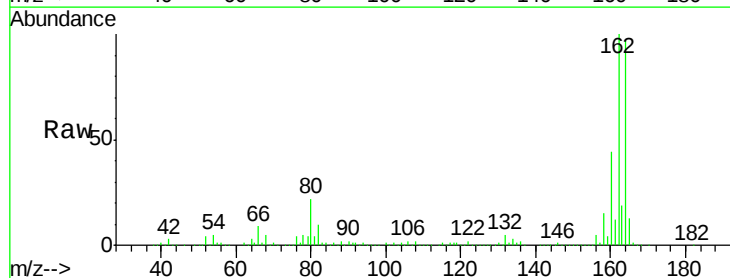
Instrument :
BNA_F
ClientSampleId :

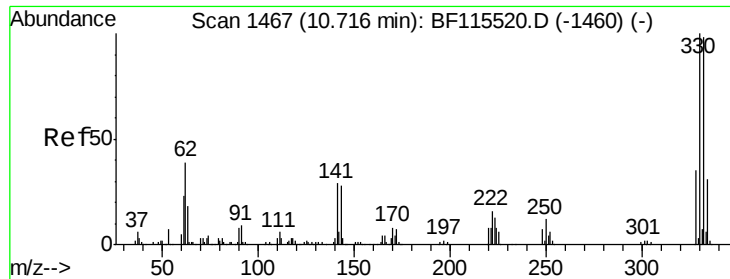
Tot Ion:142 Resp: 92868
Ion Ratio Lower Upper
142 100
141 91.3 75.3 112.9
116 5.1 3.3 4.9#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF115714.D
Acq: 22 Jul 2019 17:26

Tgt Ion:164 Resp: 254244
Ion Ratio Lower Upper
164 100
162 103.0 82.9 124.3
160 45.4 36.8 55.2

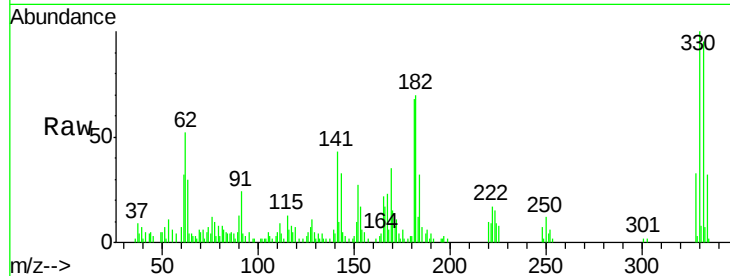




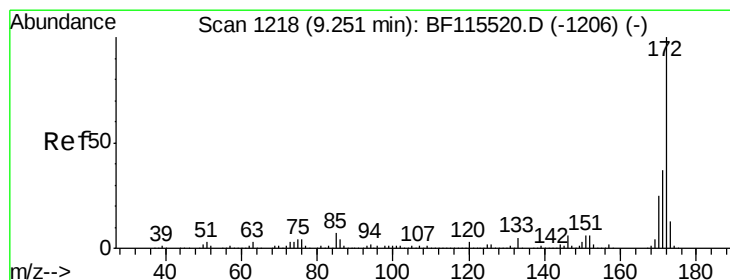
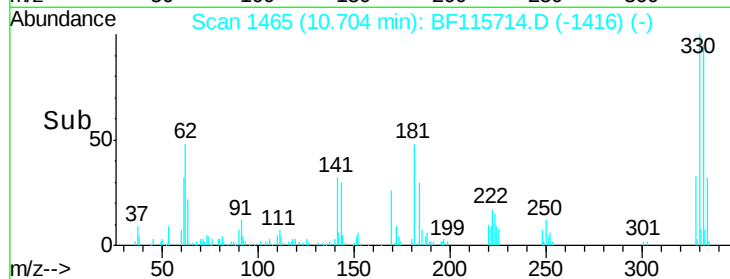
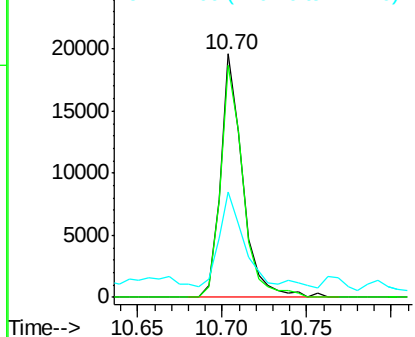
#42
 2,4,6-Tribromophenol
 Concen: 6.039 ng
 RT: 10.70 min Scan# 1465
 Delta R.T. -0.01 min
 Lab File: BF115714.D
 Acq: 22 Jul 2019 17:26

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 17923
 Ion Ratio Lower Upper
 330 100
 332 96.4 77.4 116.2
 141 45.6 22.4 33.6#

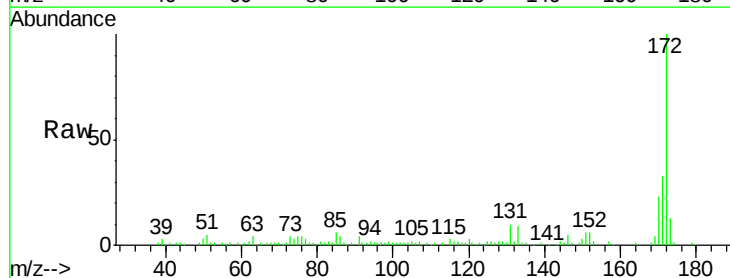


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

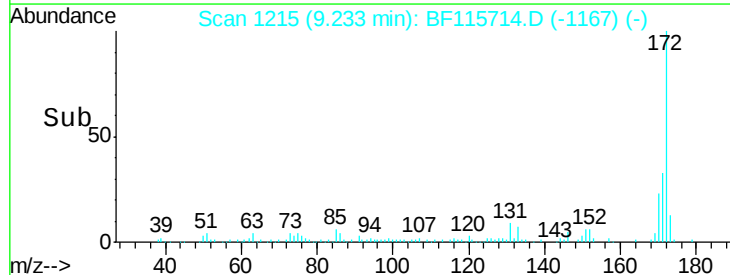
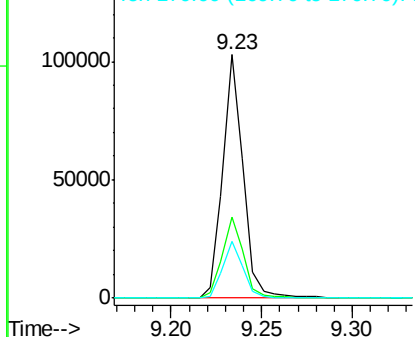


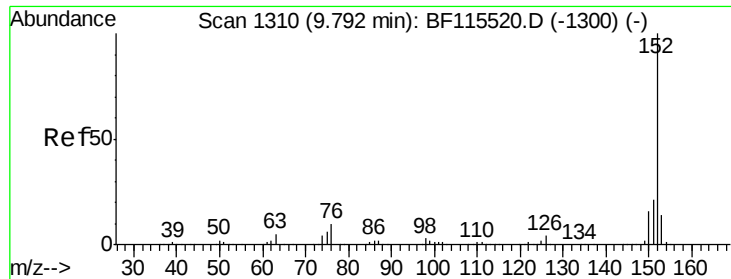
#45
 2-Fluorobiphenyl
 Concen: 5.562 ng
 RT: 9.23 min Scan# 1215
 Delta R.T. -0.02 min
 Lab File: BF115714.D
 Acq: 22 Jul 2019 17:26

Tgt Ion:172 Resp: 80791
 Ion Ratio Lower Upper
 172 100
 171 33.2 30.6 46.0
 170 23.5 20.5 30.7



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: 16.652 ng

RT: 9.78 min Scan# 1308

Delta R.T. -0.01 min

Lab File: BF115714.D

Acq: 22 Jul 2019 17:26

Instrument :

BNA_F

ClientSampleId :

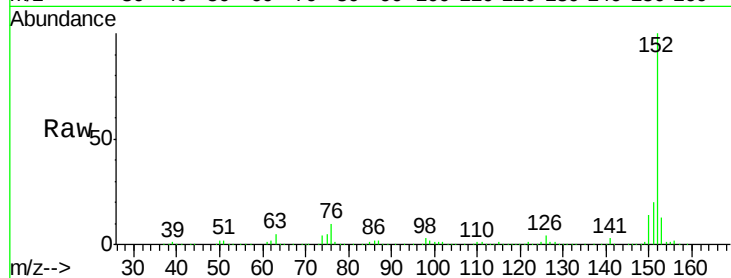
Tot Ion:152 Resp: 408376

Ion Ratio Lower Upper

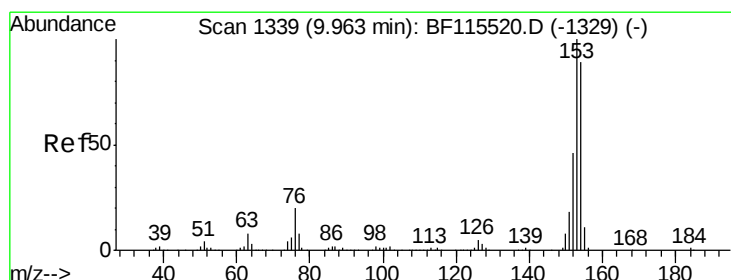
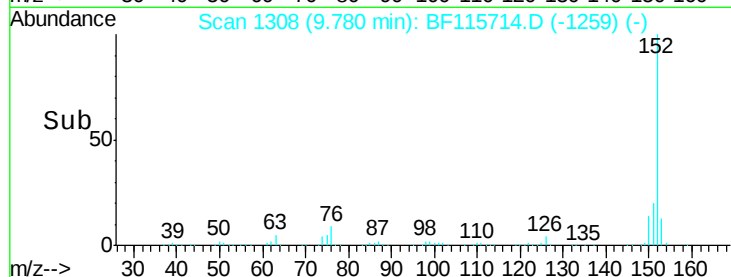
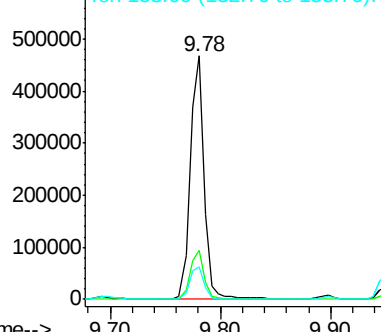
152 100

151 20.2 17.7 26.5

153 13.4 12.0 18.0



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: 2.230 ng

RT: 9.95 min Scan# 1337

Delta R.T. -0.01 min

Lab File: BF115714.D

Acq: 22 Jul 2019 17:26

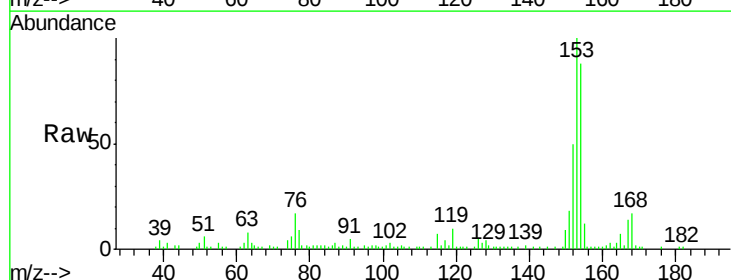
Tgt Ion:154 Resp: 35307

Ion Ratio Lower Upper

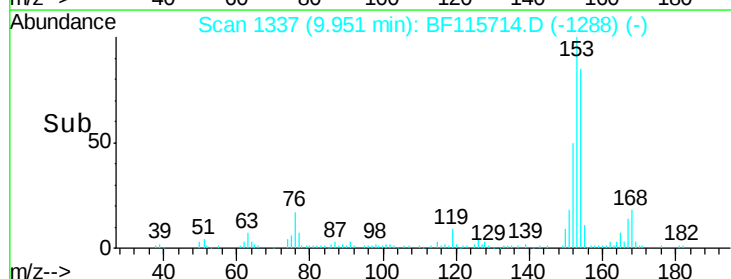
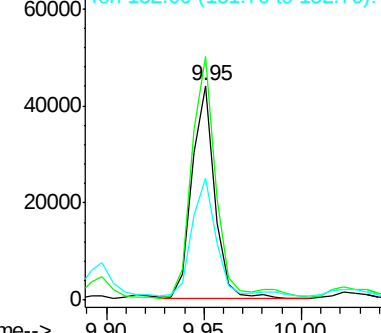
154 100

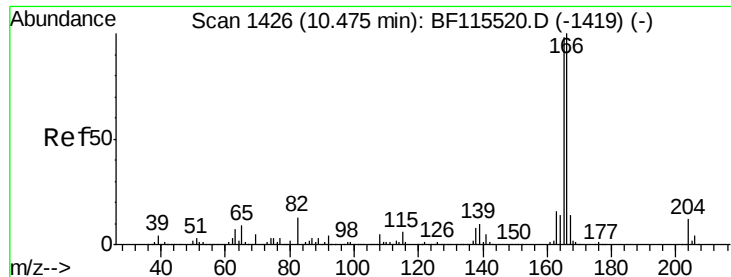
153 113.5 88.6 133.0

152 57.1 42.3 63.5



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

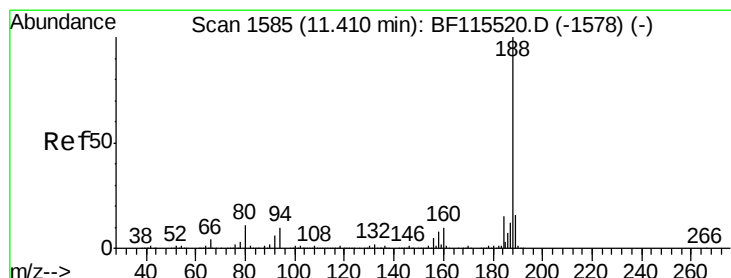
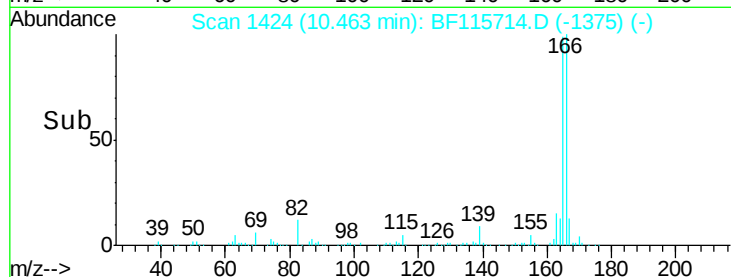
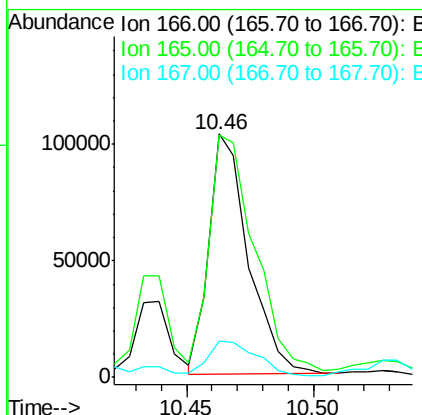
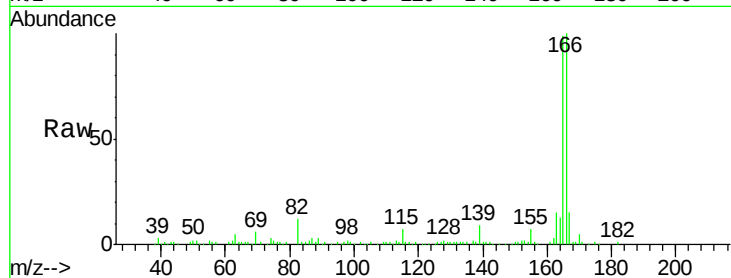




#58
 Fluorene
 Concen: 6.951 ng
 RT: 10.46 min Scan# 1424
 Delta R.T. -0.01 min
 Lab File: BF115714.D
 Acq: 22 Jul 2019 17:26

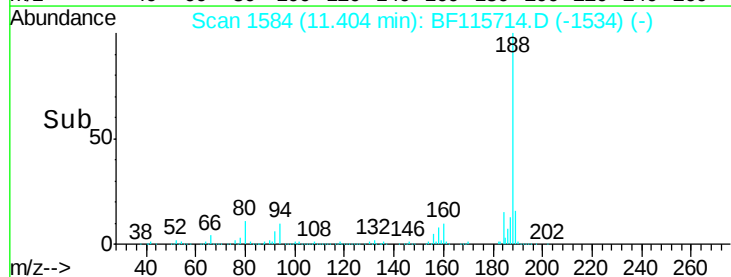
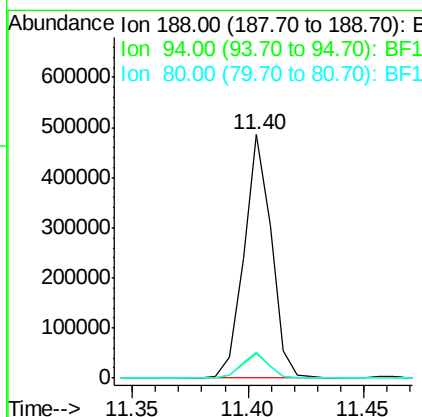
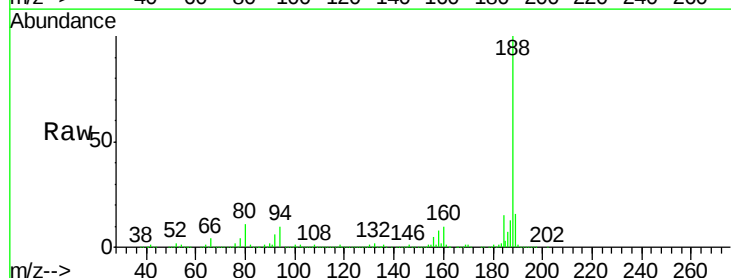
Instrument :
 BNA_F
 ClientSampled :

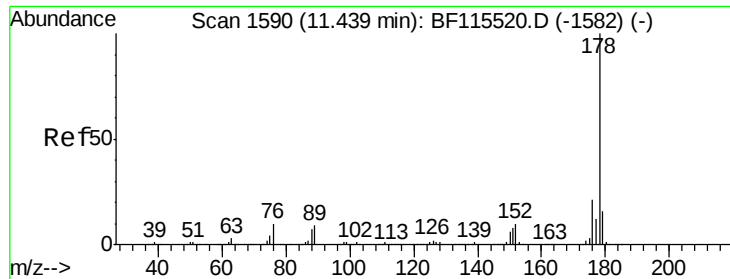
Tot Ion:166 Resp: 111723
 Ion Ratio Lower Upper
 166 100
 165 99.5 79.8 119.6
 167 14.7 11.2 16.8



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BF115714.D
 Acq: 22 Jul 2019 17:26

Tgt Ion:188 Resp: 401009
 Ion Ratio Lower Upper
 188 100
 94 10.1 7.8 11.6
 80 10.7 8.6 13.0

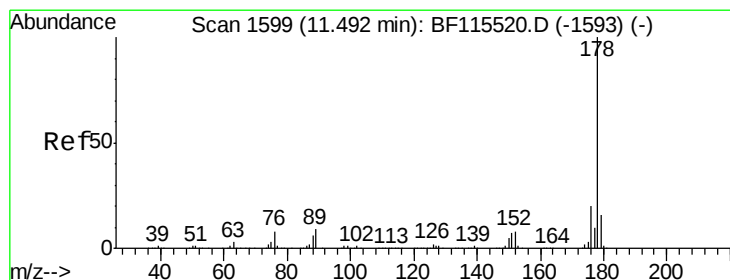
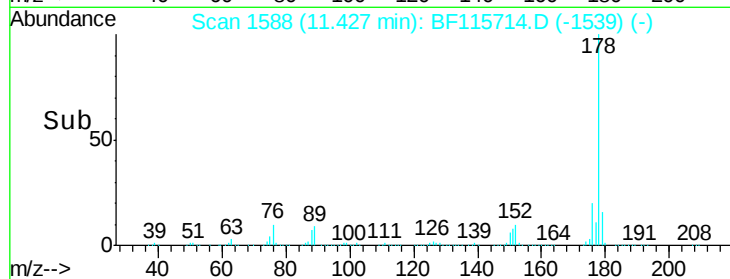
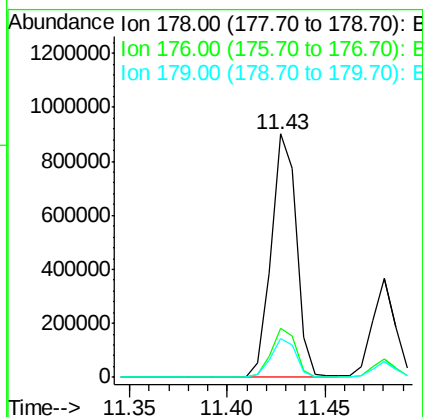
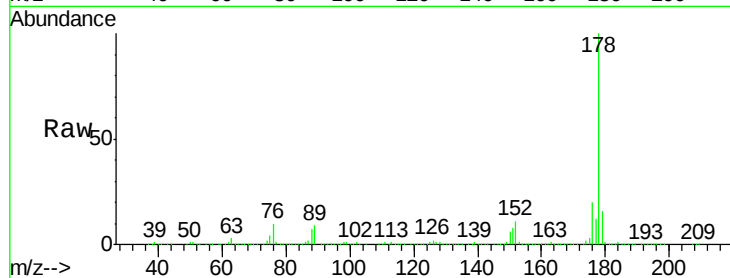




#71
Phenanthrene
Concen: 39.204 ng
RT: 11.43 min Scan# 1588
Delta R.T. -0.01 min
Lab File: BF115714.D
Acq: 22 Jul 2019 17:26

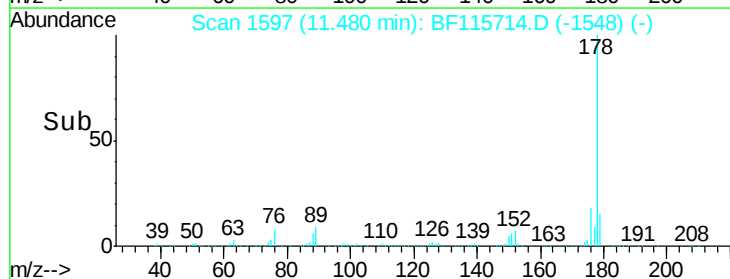
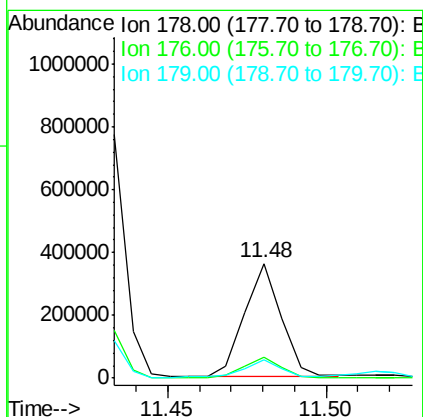
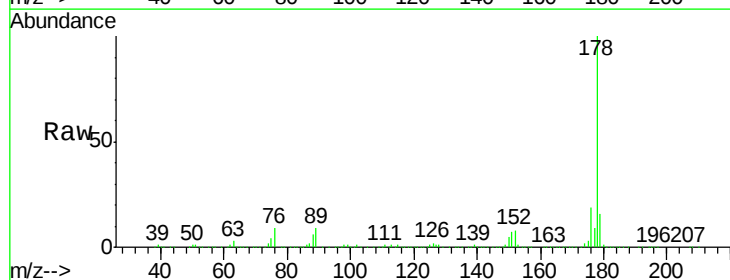
Instrument :
BNA_F
ClientSampleId :

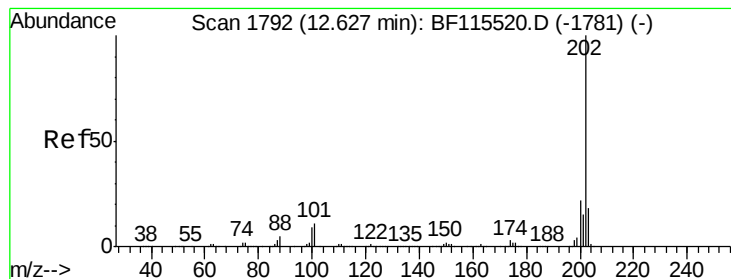
Tot Ion:178 Resp: 805845
Ion Ratio Lower Upper
178 100
176 20.4 17.2 25.8
179 16.0 13.5 20.3



#72
Anthracene
Concen: 13.720 ng
RT: 11.48 min Scan# 1597
Delta R.T. -0.01 min
Lab File: BF115714.D
Acq: 22 Jul 2019 17:26

Tgt Ion:178 Resp: 291465
Ion Ratio Lower Upper
178 100
176 18.6 15.9 23.9
179 15.7 12.7 19.1





#75

Fluoranthene

Concen: 40.137 ng

RT: 12.62 min Scan# 1791

Delta R.T. -0.01 min

Lab File: BF115714.D

Acq: 22 Jul 2019 17:26

Instrument :

BNA_F

ClientSampleId :

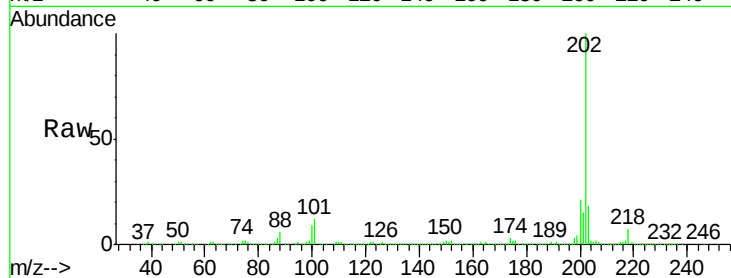
Tot Ion:202 Resp: 871846

Ion Ratio Lower Upper

202 100

101 12.3 0.0 31.4

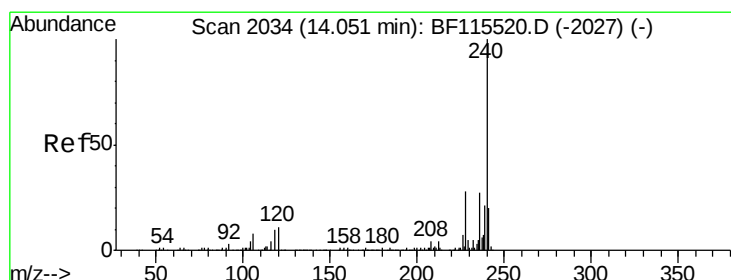
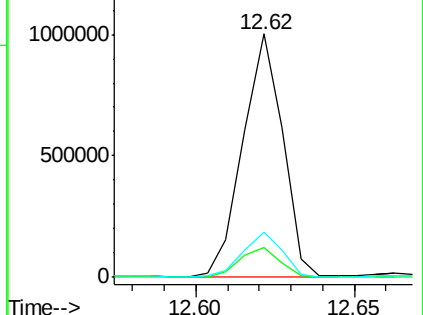
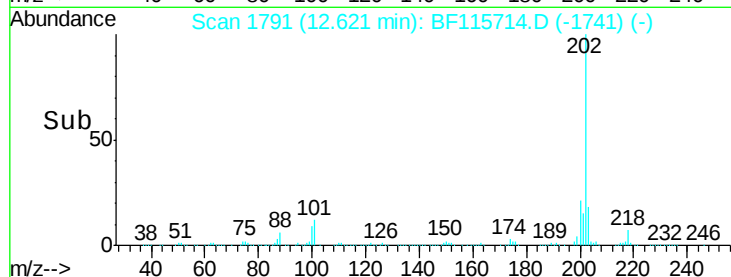
203 18.4 0.0 38.1



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: 14.05 min Scan# 2034

Delta R.T. -0.00 min

Lab File: BF115714.D

Acq: 22 Jul 2019 17:26

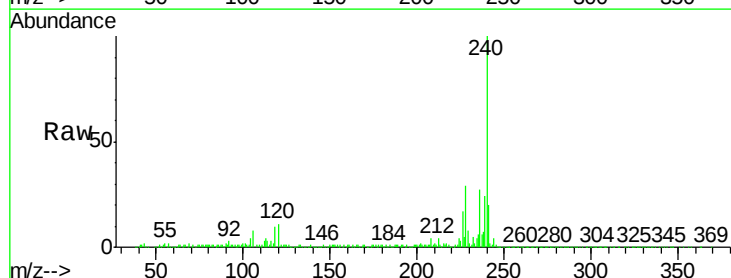
Tgt Ion:240 Resp: 348026

Ion Ratio Lower Upper

240 100

120 11.1 8.6 13.0

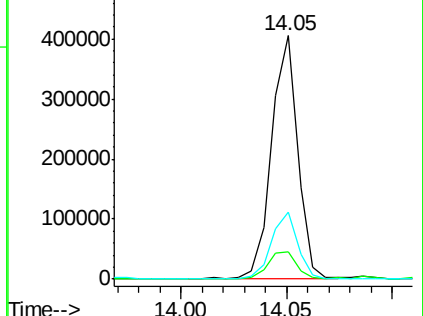
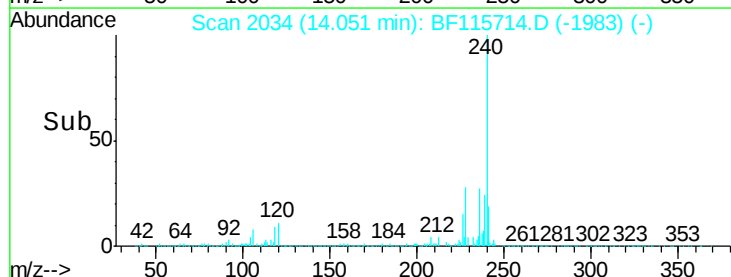
236 27.3 21.3 31.9

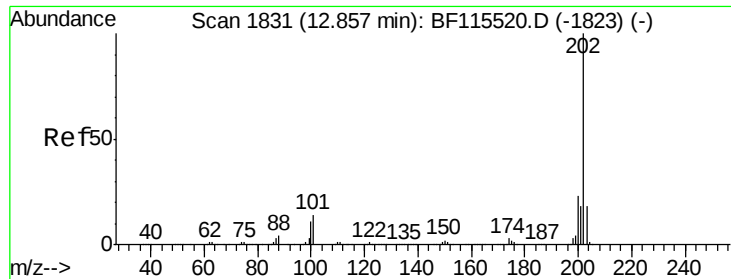


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

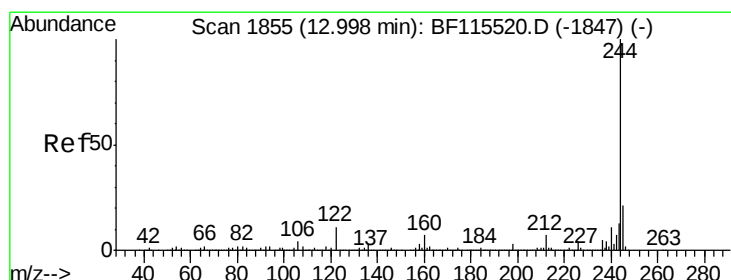
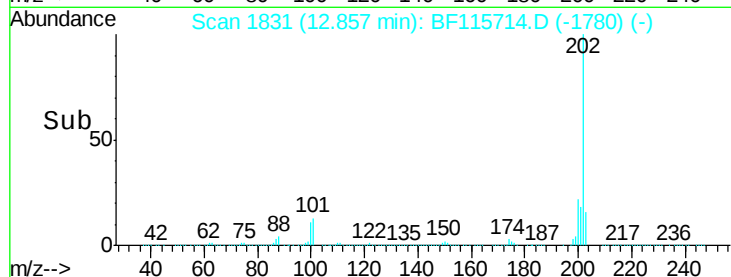
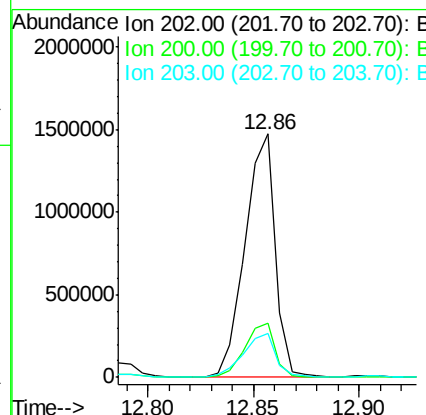
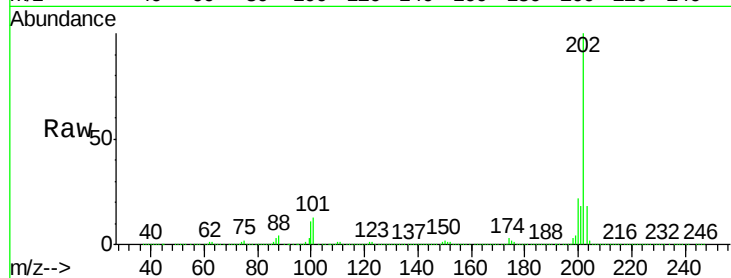




#78
Pvrene
Concen: 49.187 ng
RT: 12.86 min Scan# 1831
Delta R.T. -0.00 min
Lab File: BF115714.D
Acq: 22 Jul 2019 17:26

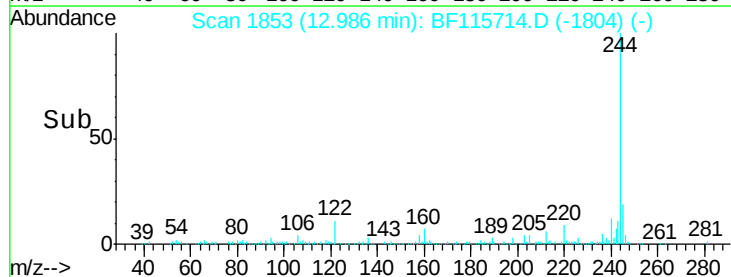
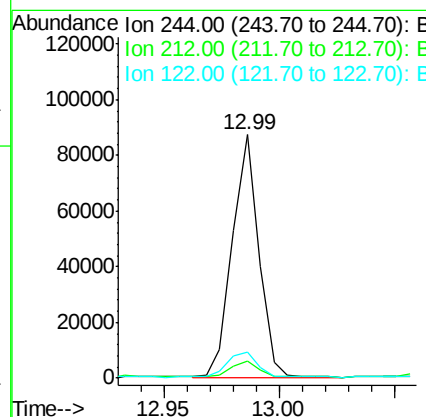
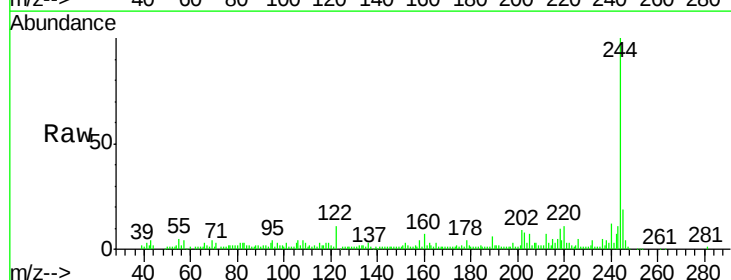
Instrument :
BNA_F
ClientSampleId :

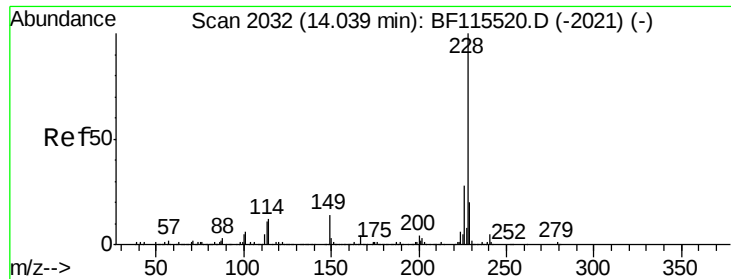
Tot Ion:202 Resp: 1450338
Ion Ratio Lower Upper
202 100
200 22.4 18.7 28.1
203 18.2 15.2 22.8



#79
Terphenyl-d14
Concen: 3.686 ng
RT: 12.99 min Scan# 1853
Delta R.T. -0.01 min
Lab File: BF115714.D
Acq: 22 Jul 2019 17:26

Tgt Ion:244 Resp: 69517
Ion Ratio Lower Upper
244 100
212 6.9 6.0 9.0
122 10.9 8.6 12.8





#81

Benzo(a)anthracene

Concen: 29.231 ng

RT: 14.07 min Scan# 2038

Delta R.T. 0.04 min

Lab File: BF115714.D

Acq: 22 Jul 2019 17:26

Instrument :

BNA_F

ClientSampleId :

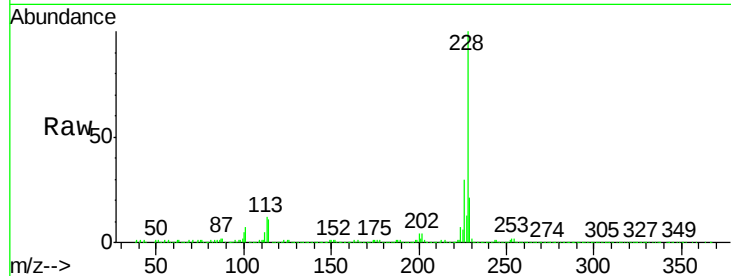
Tot Ion:228 Resp: 670199

Ion Ratio Lower Upper

228 100

226 30.4 23.4 35.0

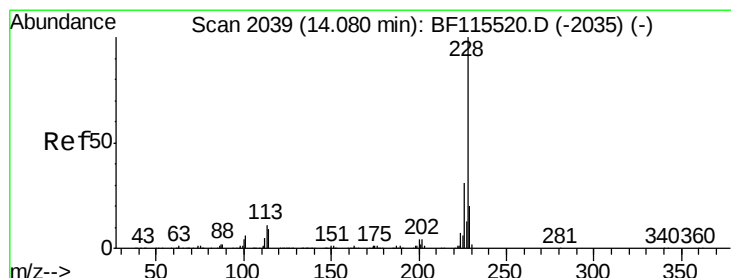
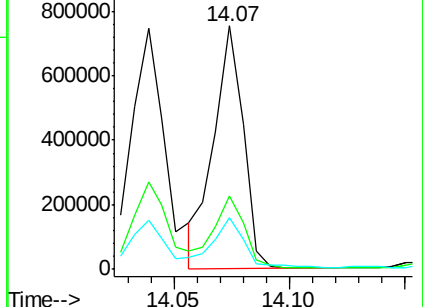
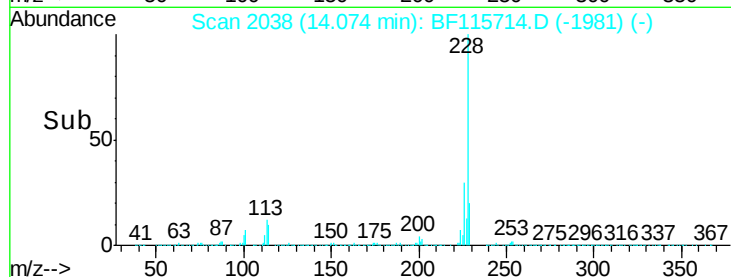
229 20.9 17.2 25.8



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: 29.118 ng

RT: 14.07 min Scan# 2038

Delta R.T. -0.01 min

Lab File: BF115714.D

Acq: 22 Jul 2019 17:26

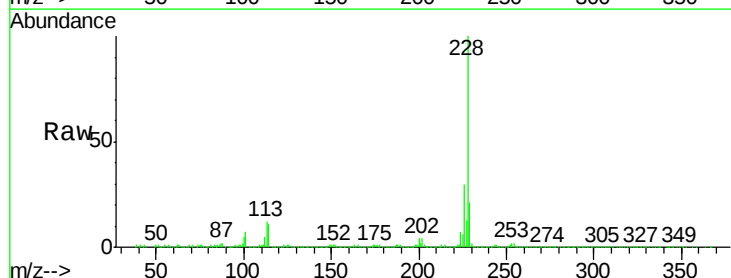
Tgt Ion:228 Resp: 670199

Ion Ratio Lower Upper

228 100

226 30.4 25.7 38.5

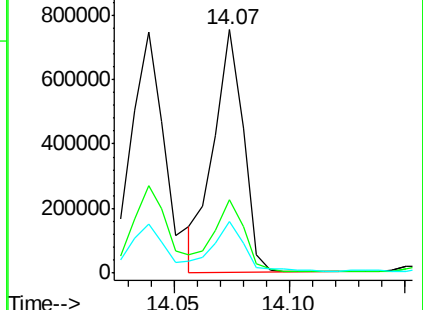
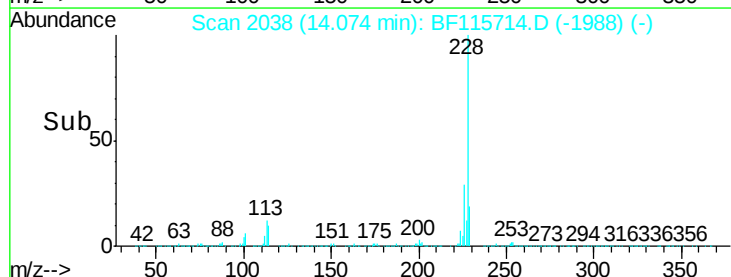
229 20.9 16.6 25.0

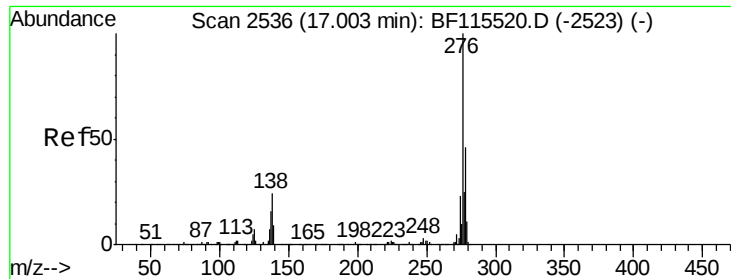


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

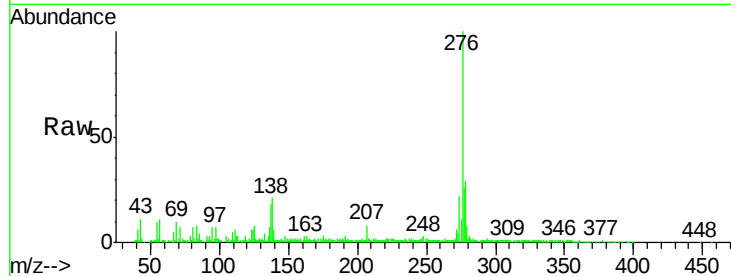




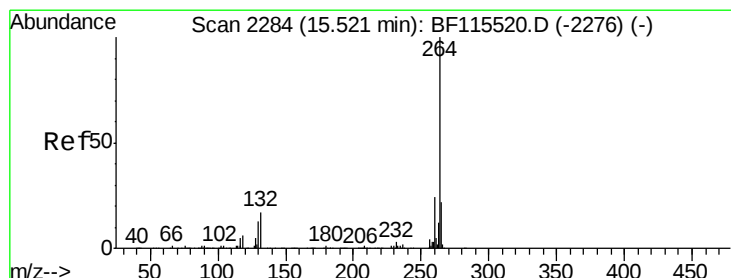
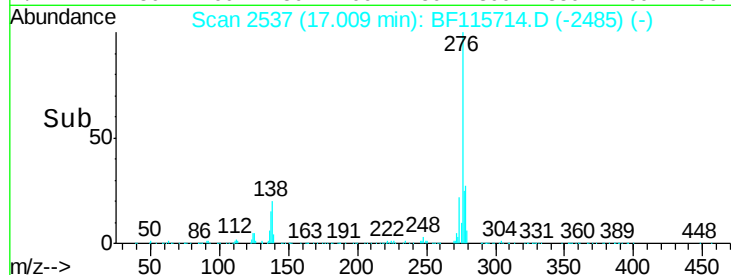
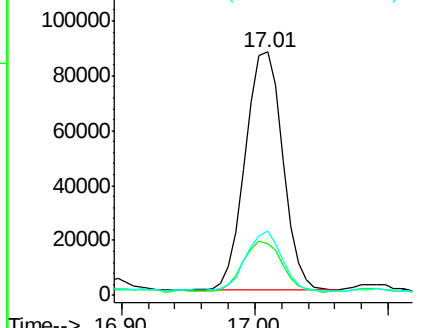
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 8.657 ng
 RT: 17.01 min Scan# 2537
 Delta R.T. 0.01 min
 Lab File: BF115714.D
 Acq: 22 Jul 2019 17:26

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	22.5	20.2	30.2
277	25.0	20.4	30.6

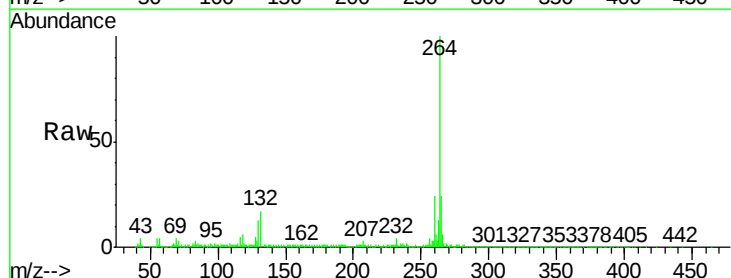


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

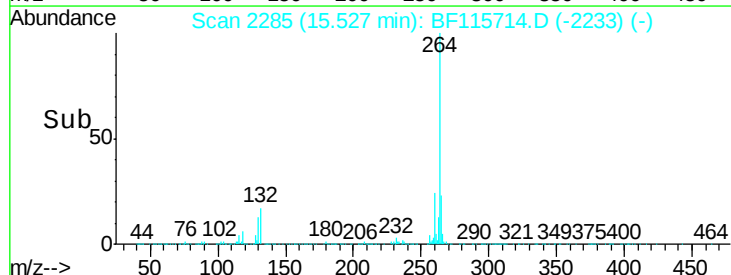
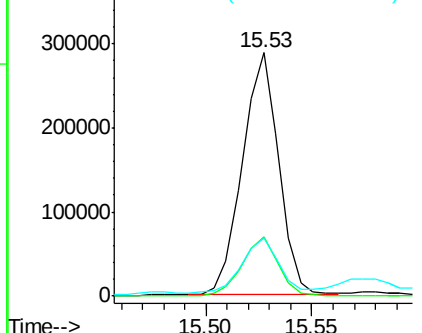


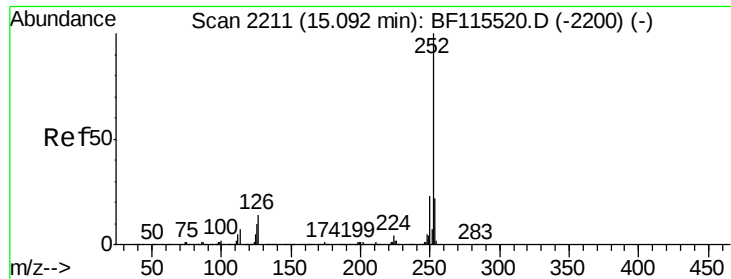
#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.53 min Scan# 2285
 Delta R.T. 0.01 min
 Lab File: BF115714.D
 Acq: 22 Jul 2019 17:26

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.8	29.8
265	23.7	17.7	26.5



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

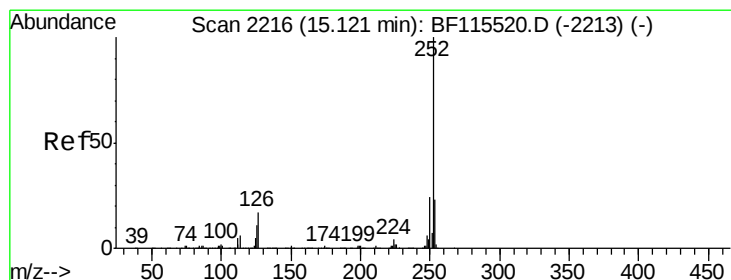
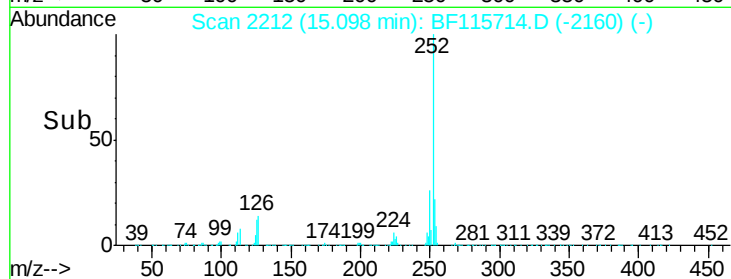
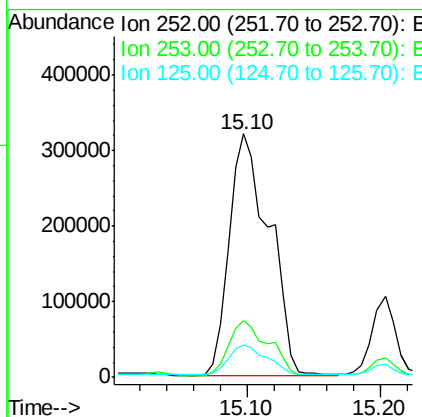
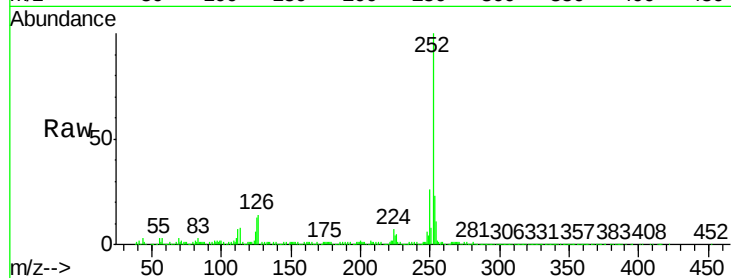




#88
Benzo(b)fluoranthene
Concen: 29.968 ng
RT: 15.10 min Scan# 2212
Delta R.T. 0.01 min
Lab File: BF115714.D
Acq: 22 Jul 2019 17:26

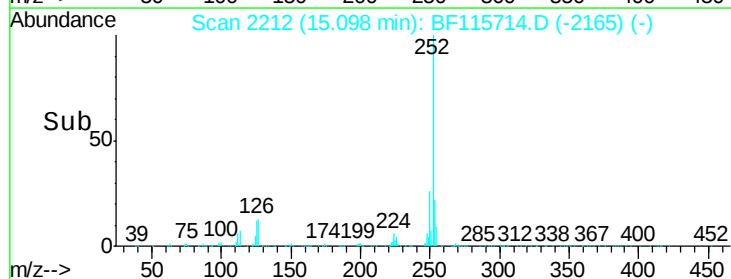
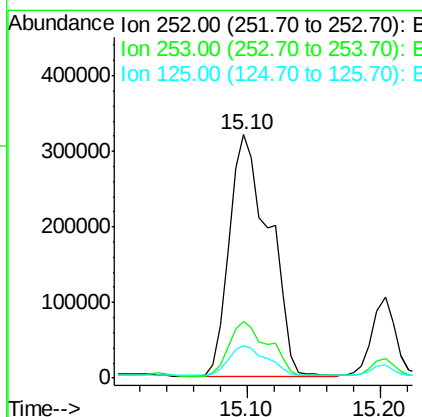
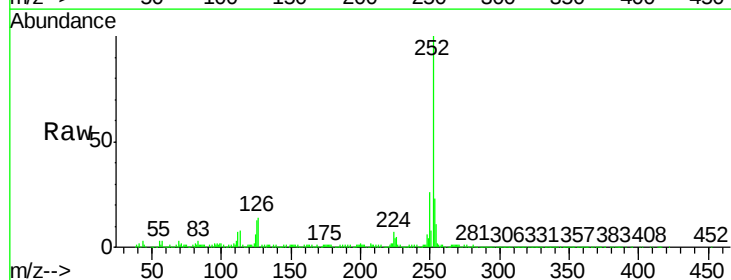
Instrument :
BNA_F
ClientSampleId :

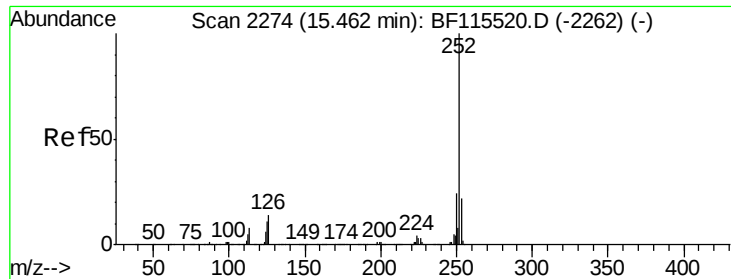
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.1	27.1
125	13.2	9.0	13.4



#89
Benzo(k)fluoranthene
Concen: 33.613 ng
RT: 15.10 min Scan# 2212
Delta R.T. -0.02 min
Lab File: BF115714.D
Acq: 22 Jul 2019 17:26

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.6	28.0
125	13.2	9.0	13.6

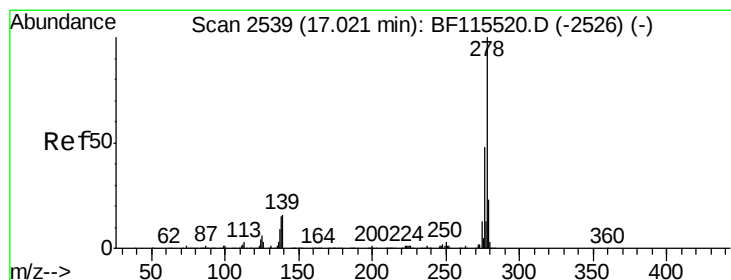
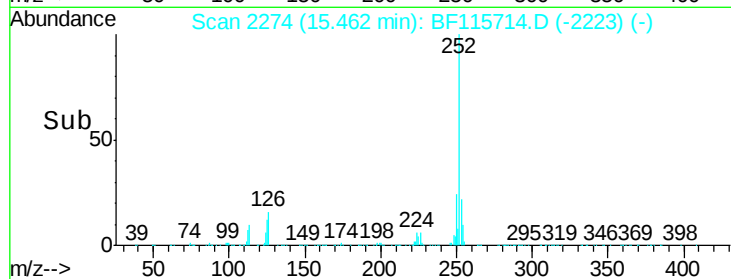
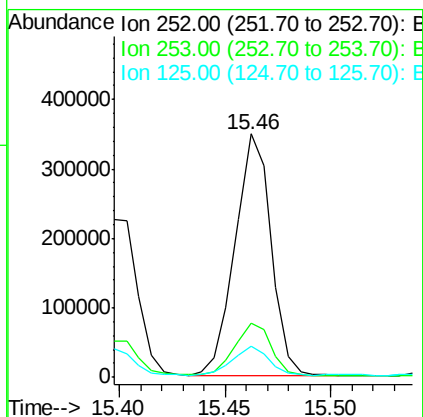
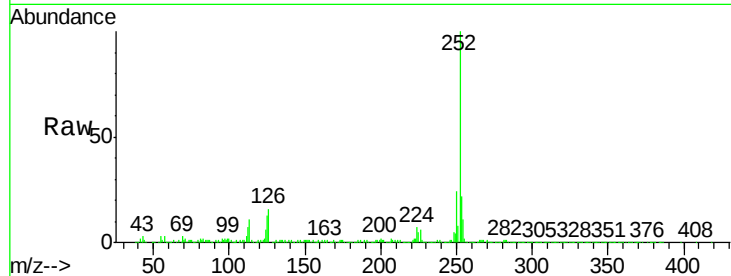




#90
Benzo(a)pyrene
Concen: 21.526 ng
RT: 15.46 min Scan# 2274
Delta R.T. -0.00 min
Lab File: BF115714.D
Acq: 22 Jul 2019 17:26

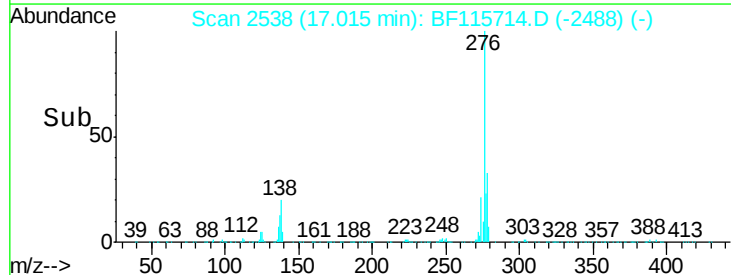
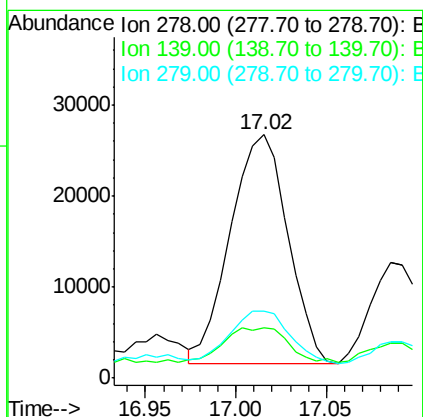
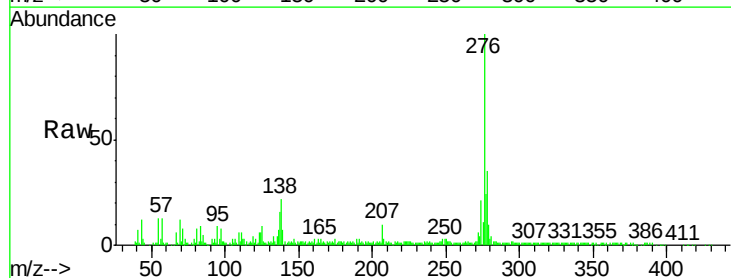
Instrument :
BNA_F
ClientSampleId :

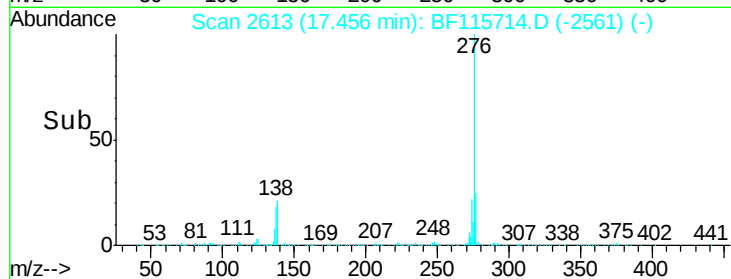
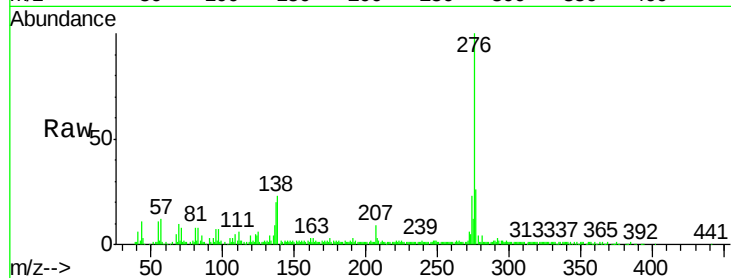
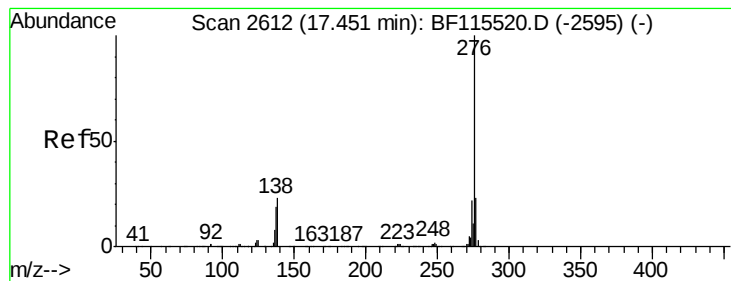
Tot Ion:252 Resp: 411304
Ion Ratio Lower Upper
252 100
253 22.4 17.8 26.6
125 12.9 9.1 13.7



#91
Dibenzo(a,h)anthracene
Concen: 3.296 ng
RT: 17.02 min Scan# 2538
Delta R.T. -0.01 min
Lab File: BF115714.D
Acq: 22 Jul 2019 17:26

Tgt Ion:278 Resp: 55290
Ion Ratio Lower Upper
278 100
139 20.9 13.1 19.7#
279 27.5 19.6 29.4





#92

Benzo(a,h,i)perylene

Concen: 10.178 ng

RT: 17.46 min Scan# 2613

Delta R.T. 0.01 min

Lab File: BF115714.D

Acq: 22 Jul 2019 17:26

Instrument :

BNA_F

ClientSampleId :

Tot Ion:276 Resp: 170270

Ion Ratio Lower Upper

276 100

277 25.8 19.0 28.4

138 22.5 17.2 25.8

