

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061419\
 Data File : BF115057.D
 Acq On : 14 Jun 2019 23:03
 Operator : HP/JU
 Sample : K3351-05
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RBR-200029

Quant Time: Jun 15 06:38:47 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061219.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 12 15:42:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.65	152	312258	20.00	ng	0.00
21) Naphthalene-d8	7.93	136	1186123	20.00	ng	0.00
39) Acenaphthene-d10	9.67	164	522197	20.00	ng	0.00
64) Phenanthrene-d10	11.15	188	864417	20.00	ng	0.00
76) Chrysene-d12	13.77	240	535726	20.00	ng	-0.01
87) Perylene-d12	15.14	264	591898	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.26	112	1495789	79.99	ng	0.00
7) Phenol-d6	6.29	99	1827196	81.00	ng	0.00
23) Nitrobenzene-d5	7.21	82	1091639	55.40	ng	0.00
42) 2,4,6-Tribromophenol	10.46	330	390536	69.84	ng	-0.01
45) 2-Fluorobiphenyl	9.00	172	1784744	57.93	ng	0.00
79) Terphenyl-d14	12.73	244	1373073	48.21	ng	-0.01

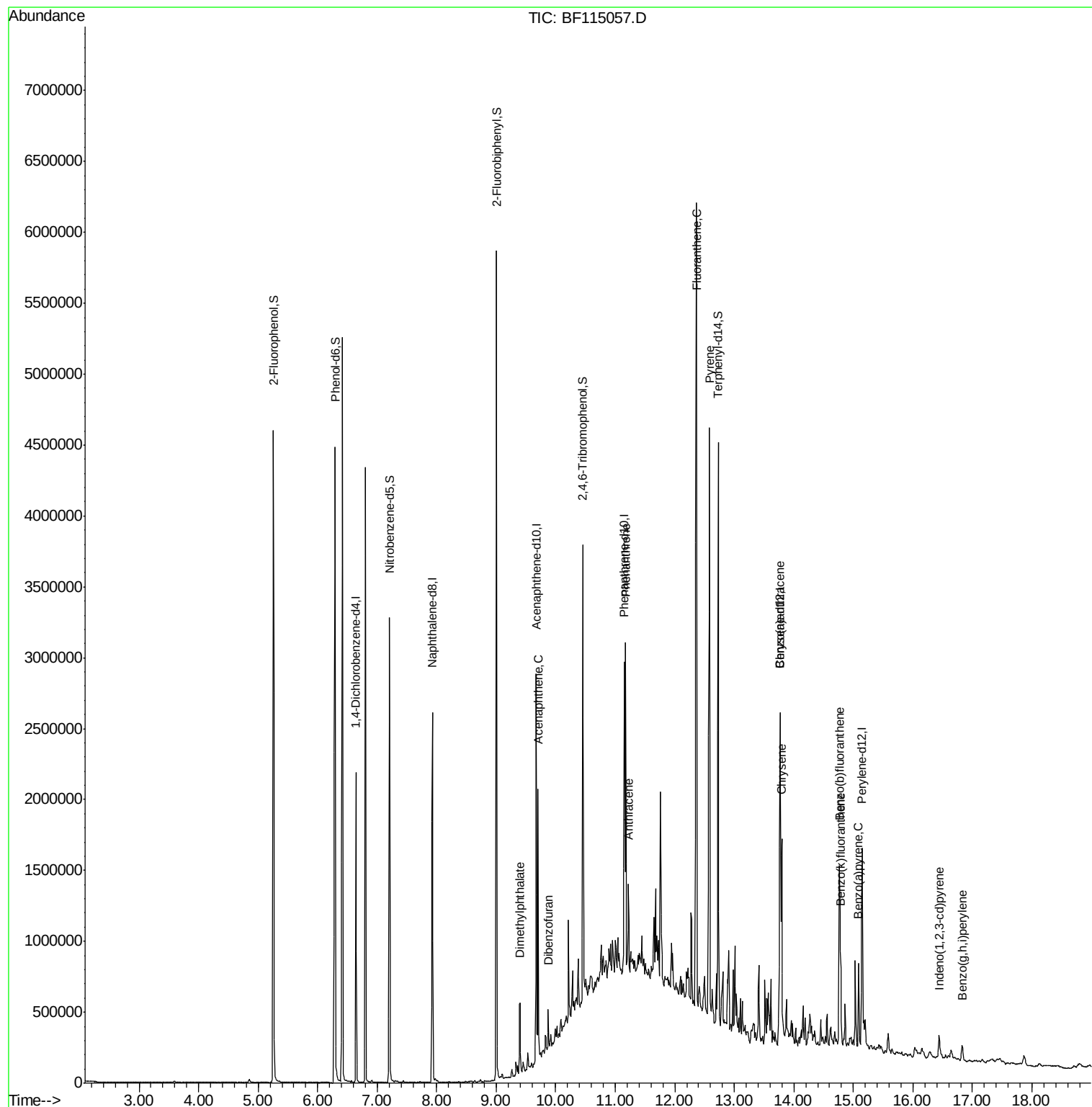
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
50) Dimethylphthalate	9.40	163	221734	5.646	ng	98
52) Acenaphthene	9.70	154	386694	12.991	ng	97
55) Dibenzofuran	9.87	168	90777	2.023	ng	96
71) Phenanthrene	11.17	178	881524	19.751	ng	98
72) Anthracene	11.22	178	231280	5.137	ng	98
75) Fluoranthene	12.36	202	2557828	56.047	ng	100
78) Pyrene	12.59	202	1939891	39.749	ng	99
81) Benzo(a)anthracene	13.76	228	617175	15.395	ng	98
83) Chrysene	13.80	228	636308	15.961	ng	96
86) Indeno(1,2,3-cd)pyrene	16.44	276	100109	2.859	ng	96
88) Benzo(b)fluoranthene	14.77	252	630291m	16.019	ng	
89) Benzo(k)fluoranthene	14.79	252	213025m	6.168	ng	
90) Benzo(a)pyrene	15.09	252	259239	7.635	ng	99
92) Benzo(a,h,i)perylene	16.83	276	78811	2.643	ng	96

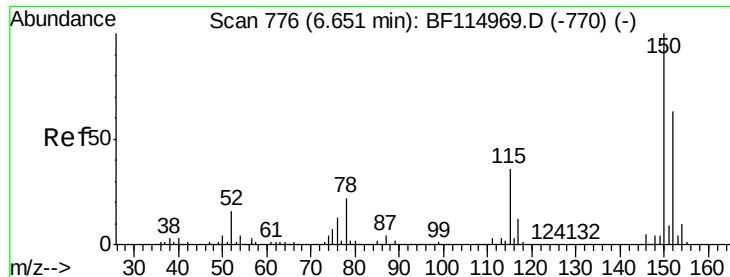
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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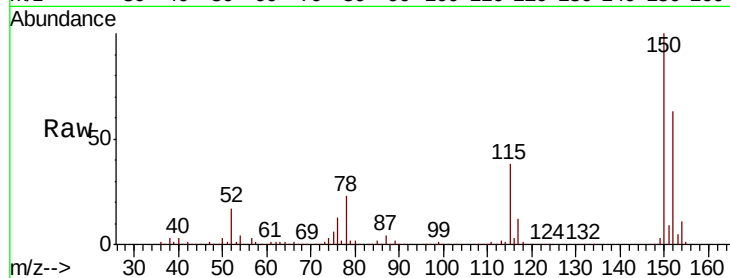


#1

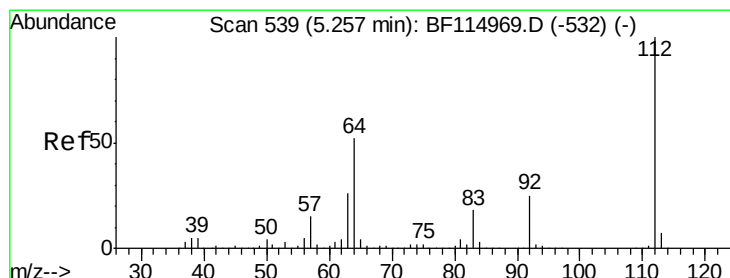
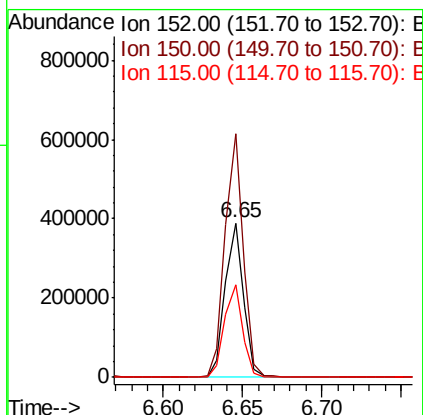
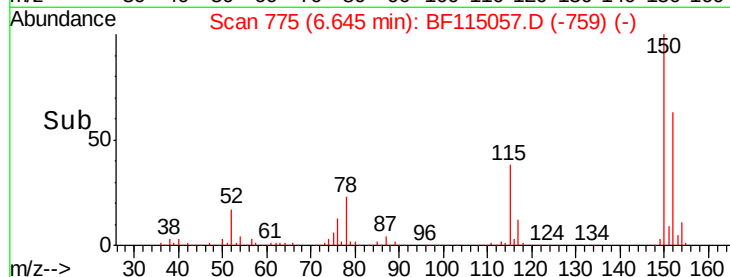
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.65 min Scan# 775
Delta R.T. -0.01 min
Lab File: BF115057.D
Acq: 14 Jun 2019 23:03

Instrument :
BNA_F
ClientSampleId :
RBR-200029

Tot Ion:152 Resp: 312258
Ion Ratio Lower Upper
152 100
150 157.7 127.4 191.0
115 59.6 46.0 69.0



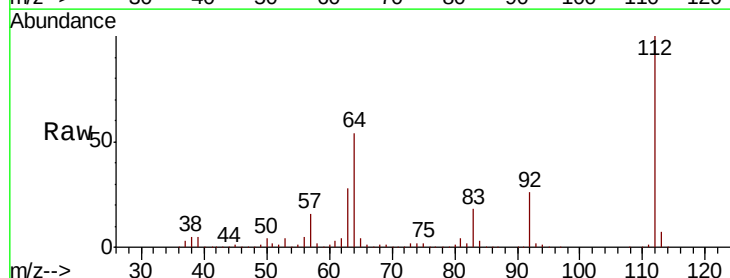
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



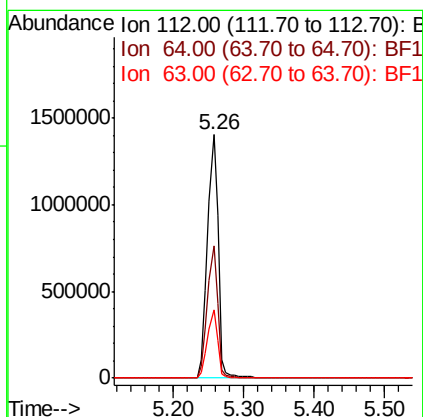
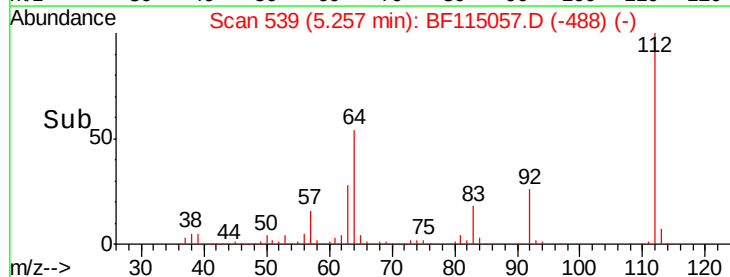
#5

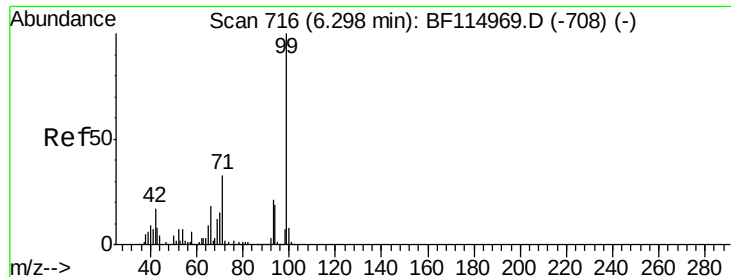
2-Fluorophenol
Concen: 79.987 ng
RT: 5.26 min Scan# 539
Delta R.T. 0.00 min
Lab File: BF115057.D
Acq: 14 Jun 2019 23:03

Tgt Ion:112 Resp: 1495789
Ion Ratio Lower Upper
112 100
64 54.2 41.6 62.4
63 27.9 20.9 31.3



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





#7

Phenol-d6

Concen: 81.000 ng

RT: 6.29 min Scan# 715

Delta R.T. -0.01 min

Lab File: BF115057.D

Acq: 14 Jun 2019 23:03

Instrument :

BNA_F

ClientSampleId :

RBR-200029

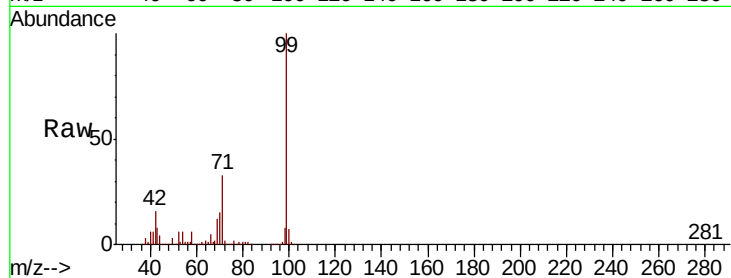
Tot Ion: 99 Resp: 1827196

Ion Ratio Lower Upper

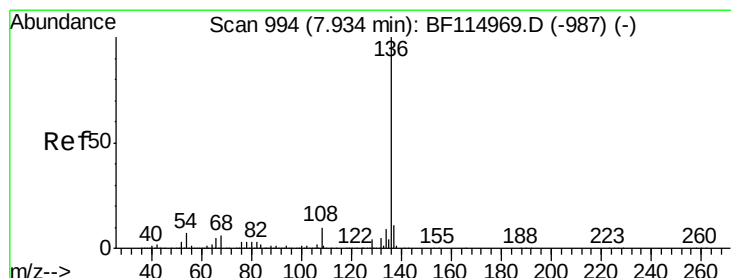
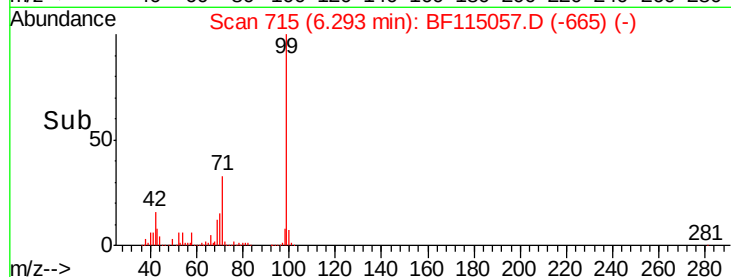
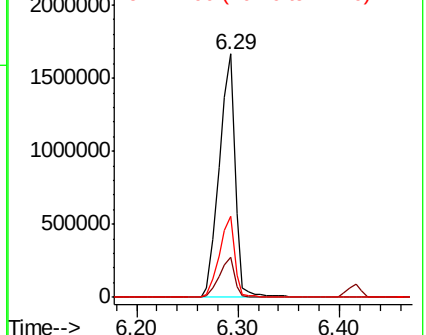
99 100

42 16.3 13.4 20.2

71 33.5 26.4 39.6



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.93 min Scan# 993

Delta R.T. -0.01 min

Lab File: BF115057.D

Acq: 14 Jun 2019 23:03

Tgt Ion: 136 Resp: 1186123

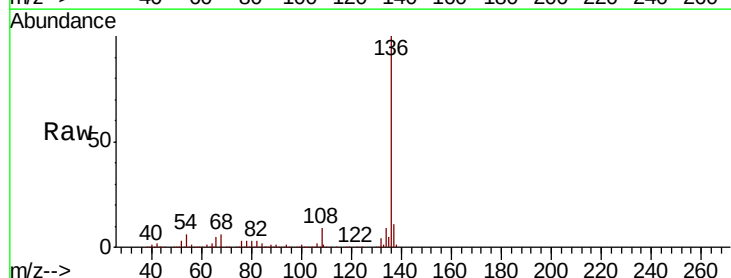
Ion Ratio Lower Upper

136 100

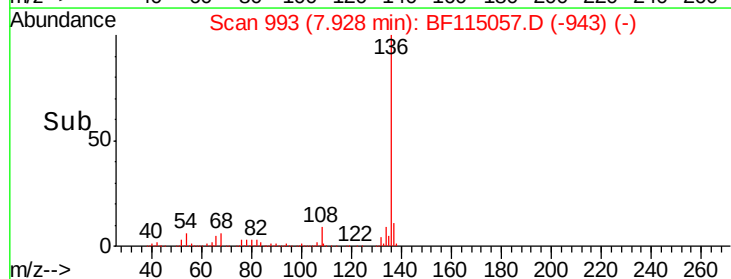
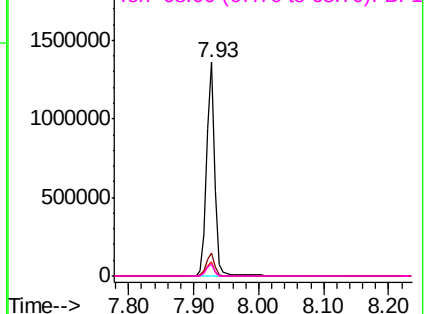
137 11.0 9.0 13.4

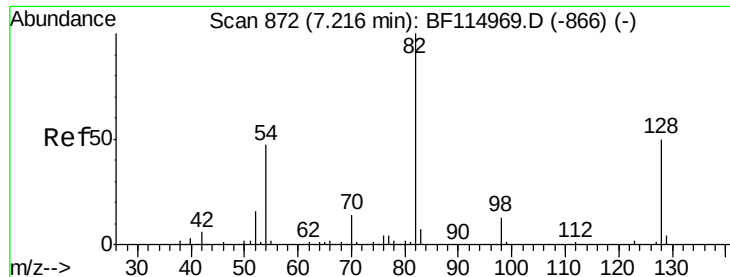
54 6.3 5.4 8.0

68 5.5 4.6 7.0



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

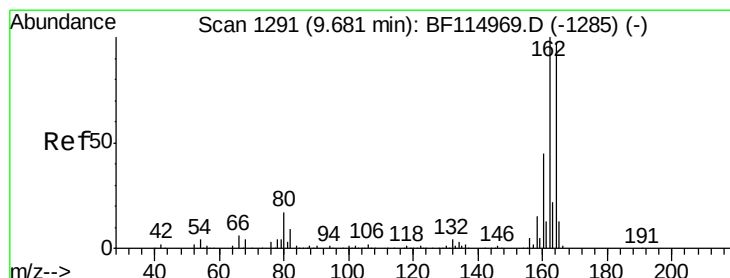
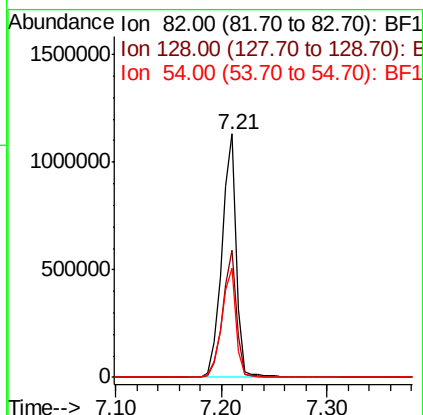
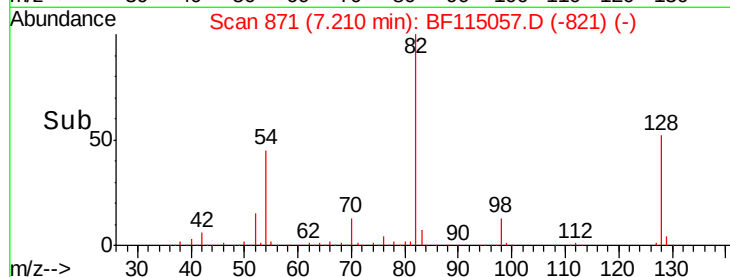
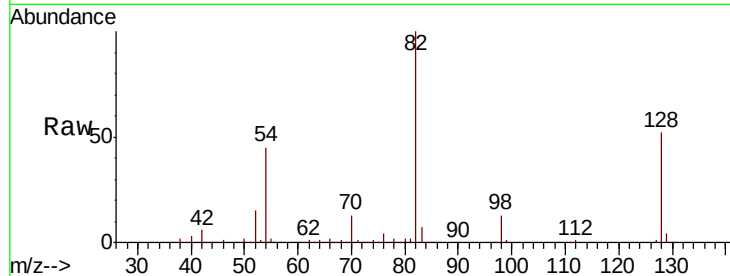




#23
Nitrobenzene-d5
Concen: 55.397 ng
RT: 7.21 min Scan# 871
Delta R.T. -0.01 min
Lab File: BF115057.D
Acq: 14 Jun 2019 23:03

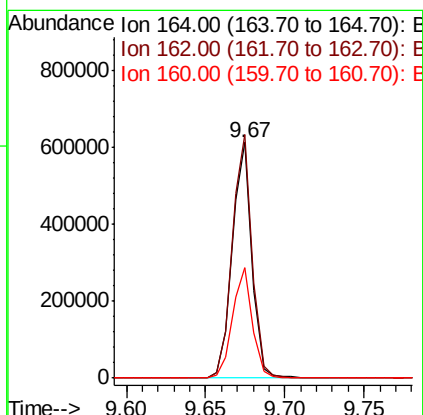
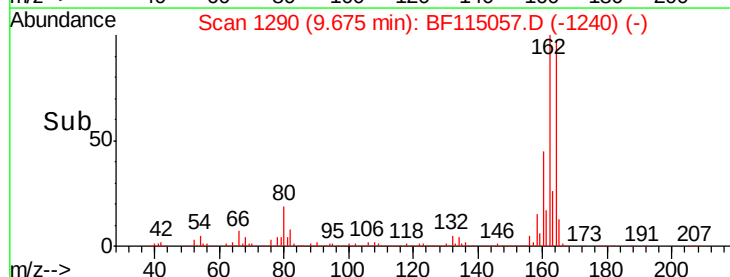
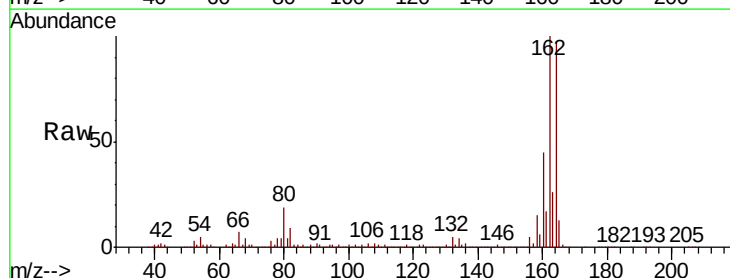
Instrument :
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ClientSampleId :
RBR-200029

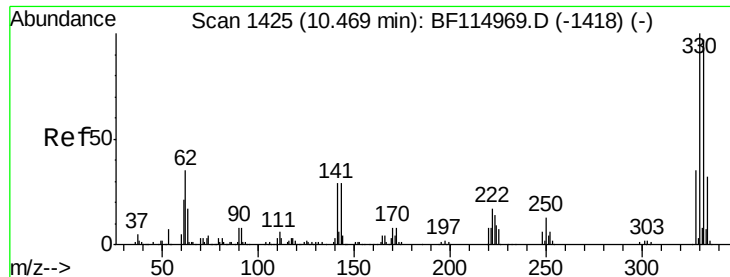
Tot Ion: 82 Resp: 1091639
Ion Ratio Lower Upper
82 100
128 52.1 39.9 59.9
54 45.1 37.3 55.9



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.67 min Scan# 1290
Delta R.T. -0.01 min
Lab File: BF115057.D
Acq: 14 Jun 2019 23:03

Tgt Ion:164 Resp: 522197
Ion Ratio Lower Upper
164 100
162 103.2 82.6 124.0
160 46.7 36.9 55.3





#42

2,4,6-Tribromophenol

Concen: 69.838 ng

RT: 10.46 min Scan# 1423

Delta R.T. -0.01 min

Lab File: BF115057.D

Acq: 14 Jun 2019 23:03

Instrument :

BNA_F

ClientSampleId :

RBR-200029

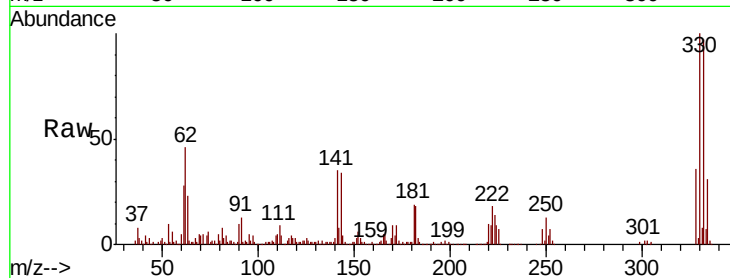
Tot Ion:330 Resp: 390536

Ion Ratio Lower Upper

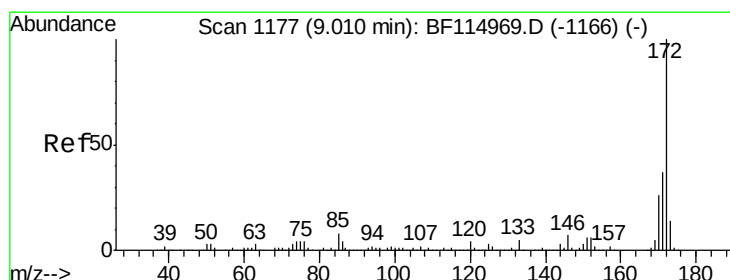
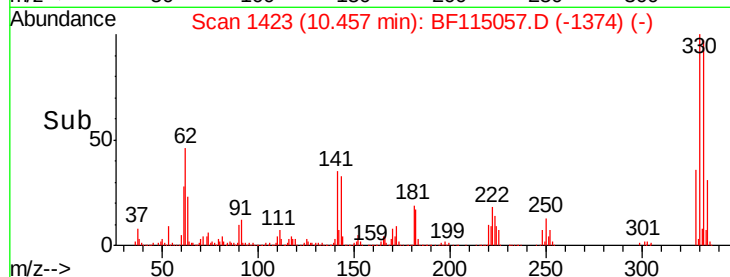
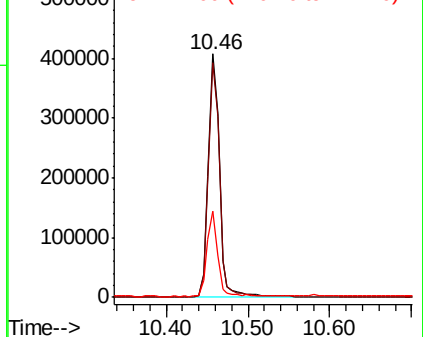
330 100

332 96.5 77.6 116.4

141 34.4 27.2 40.8



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



#45

2-Fluorobiphenyl

Concen: 57.925 ng

RT: 9.00 min Scan# 1176

Delta R.T. -0.01 min

Lab File: BF115057.D

Acq: 14 Jun 2019 23:03

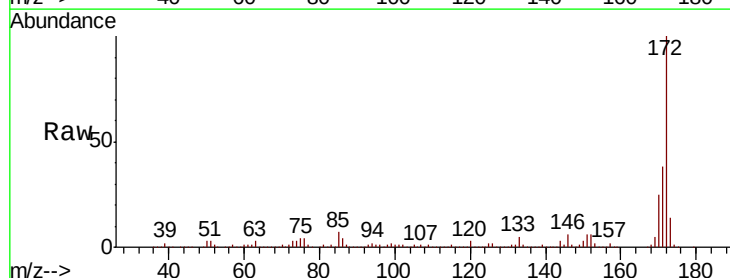
Tgt Ion:172 Resp: 1784744

Ion Ratio Lower Upper

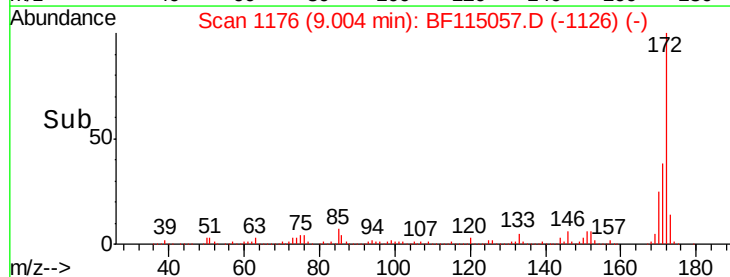
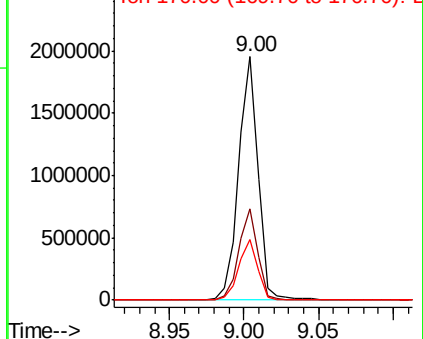
172 100

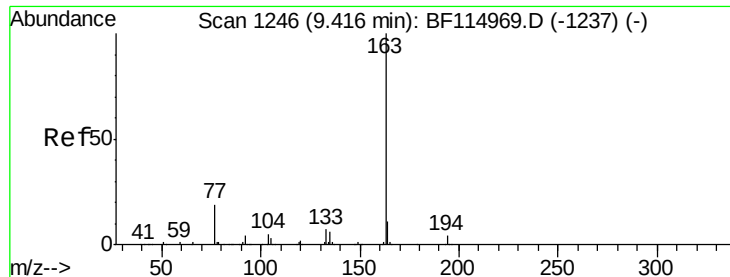
171 37.6 29.8 44.6

170 25.1 20.6 31.0



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

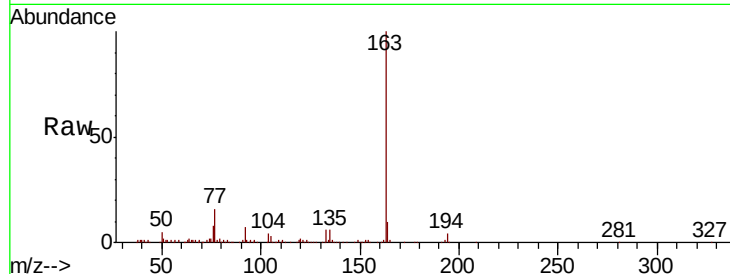




#50
Dimethylphthalate
Concen: 5.646 ng
RT: 9.40 min Scan# 1243
Delta R.T. -0.02 min
Lab File: BF115057.D
Acq: 14 Jun 2019 23:03

Instrument :
BNA_F
ClientSampleId :
RBR-200029

Tot Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.3	4.9
164	9.8	8.6	12.8

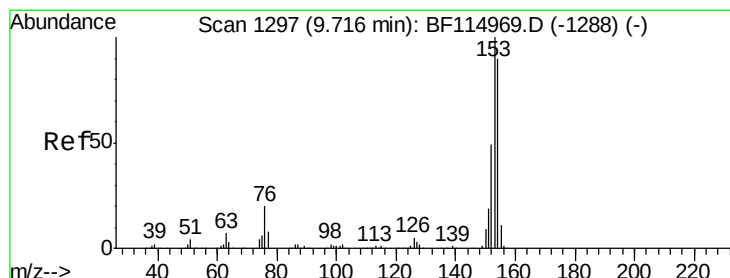
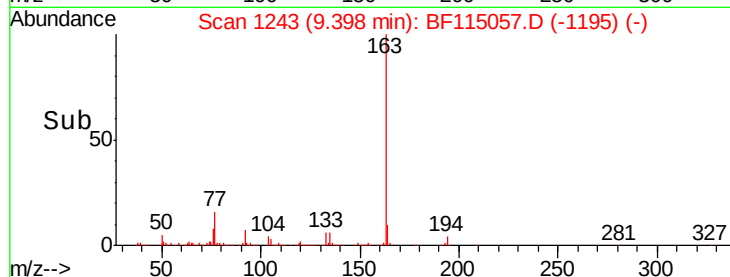
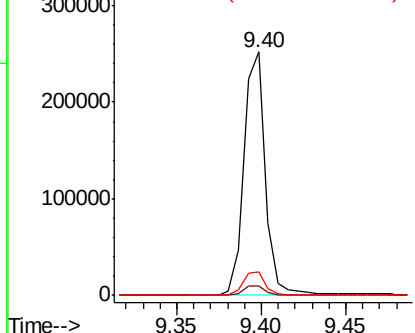


Abundance

Ion 163.00 (162.70 to 163.70): E

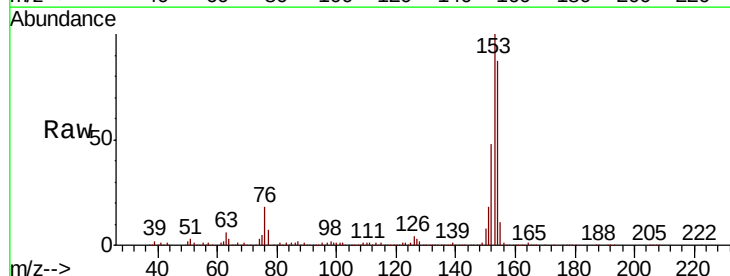
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#52
Acenaphthene
Concen: 12.991 ng
RT: 9.70 min Scan# 1295
Delta R.T. -0.01 min
Lab File: BF115057.D
Acq: 14 Jun 2019 23:03

Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.6	88.5	132.7
152	54.6	43.6	65.4

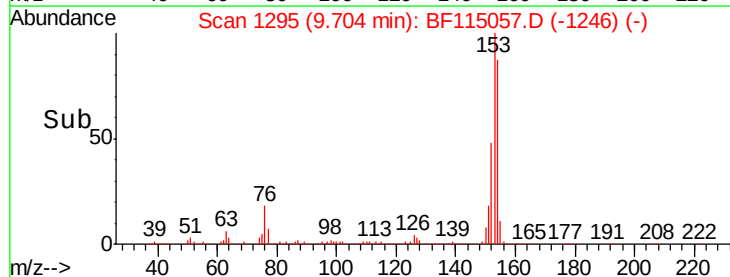
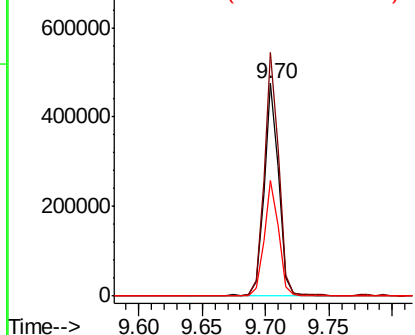


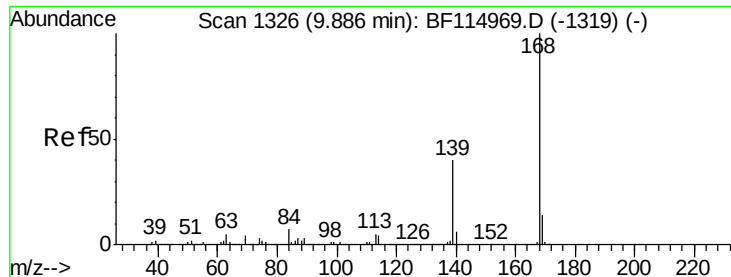
Abundance

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

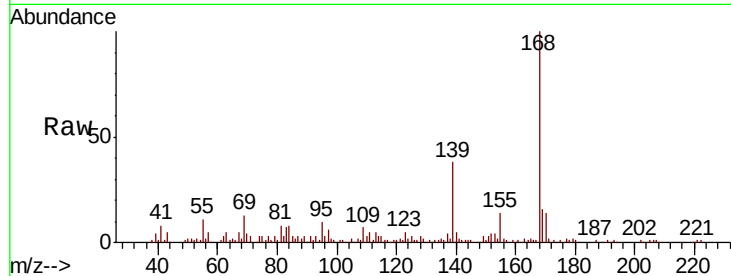




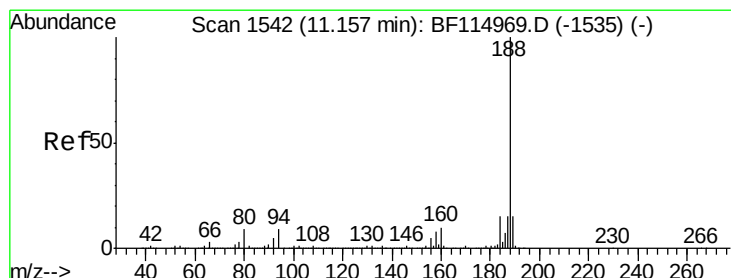
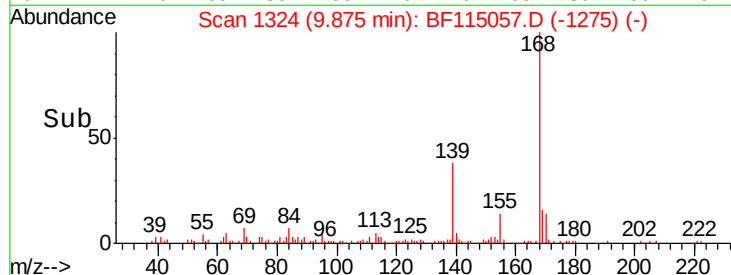
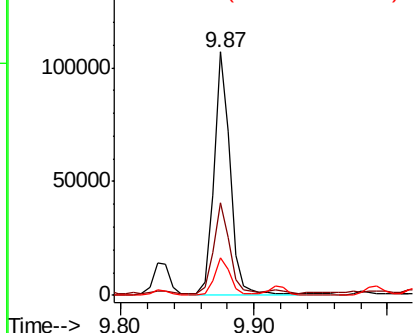
#55
Dibenzofuran
Concen: 2.023 ng
RT: 9.87 min Scan# 1324
Delta R.T. -0.01 min
Lab File: BF115057.D
Acq: 14 Jun 2019 23:03

Instrument :
BNA_F
ClientSampleId :
RBR-200029

Tot Ion:168 Resp: 90777
Ion Ratio Lower Upper
168 100
139 38.0 32.5 48.7
169 15.5 11.5 17.3

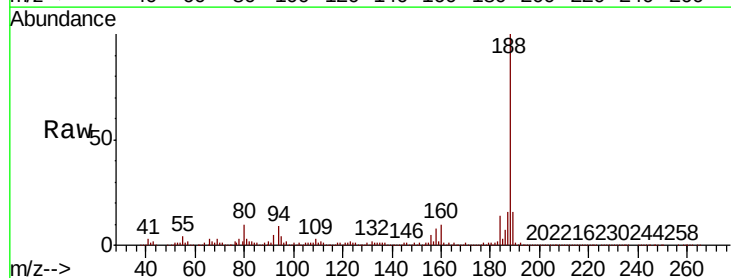


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

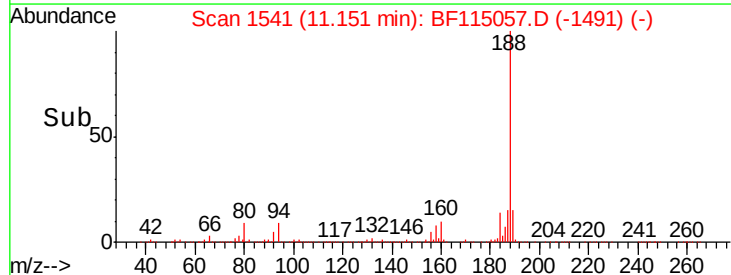
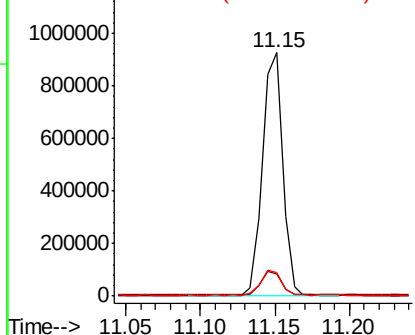


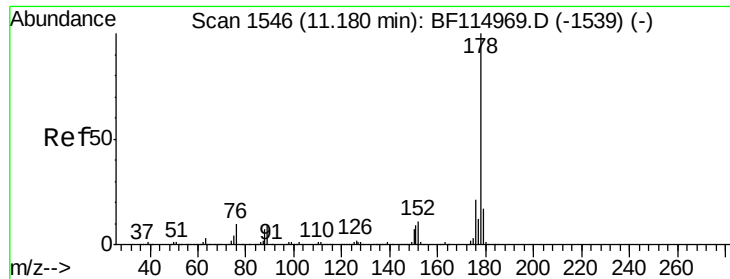
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.15 min Scan# 1541
Delta R.T. -0.01 min
Lab File: BF115057.D
Acq: 14 Jun 2019 23:03

Tgt Ion:188 Resp: 864417
Ion Ratio Lower Upper
188 100
94 9.1 7.2 10.8
80 9.5 7.4 11.2



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

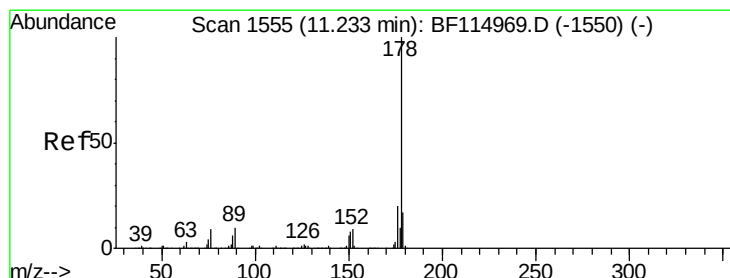
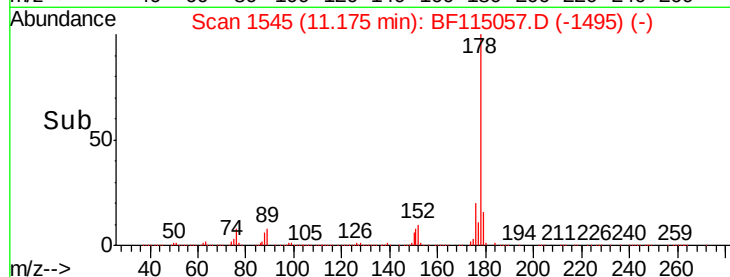
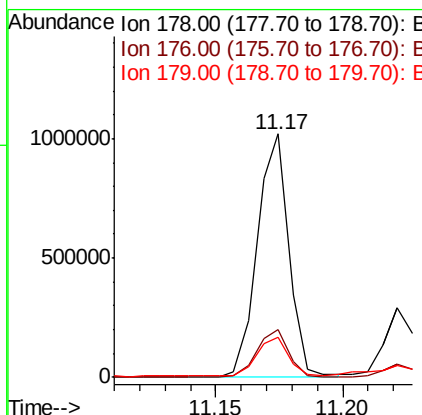
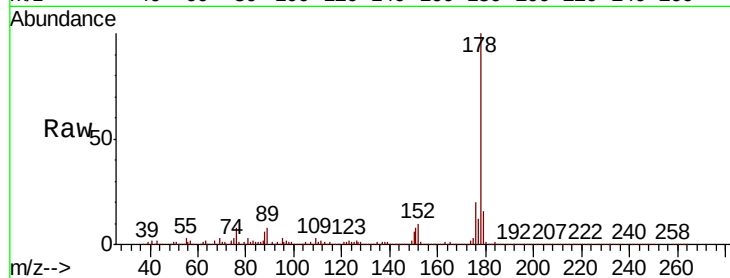




#71
Phenanthrene
Concen: 19.751 ng
RT: 11.17 min Scan# 1545
Delta R.T. -0.01 min
Lab File: BF115057.D
Acq: 14 Jun 2019 23:03

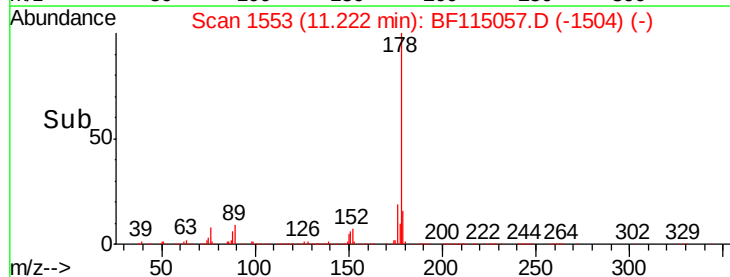
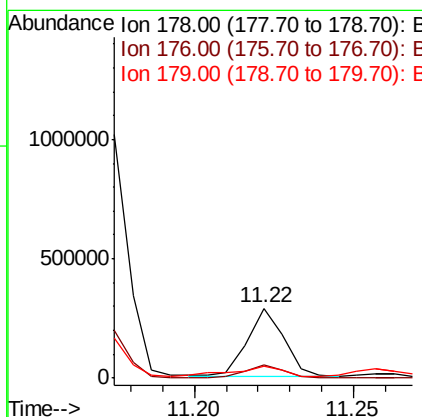
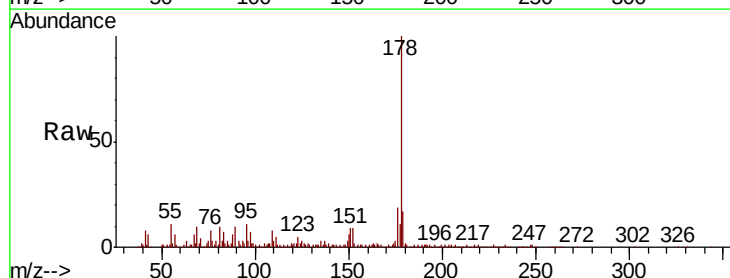
Instrument :
BNA_F
ClientSampleId :
RBR-200029

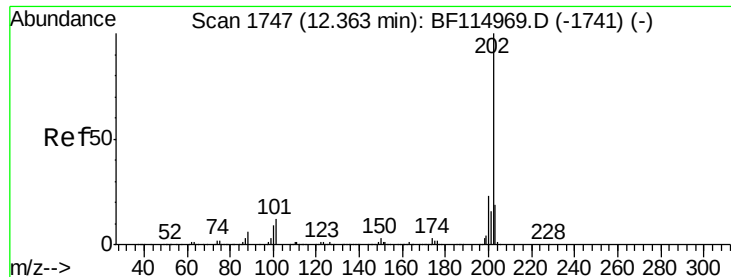
Tot Ion:178 Resp: 881524
Ion Ratio Lower Upper
178 100
176 19.6 16.9 25.3
179 16.3 13.4 20.0



#72
Anthracene
Concen: 5.137 ng
RT: 11.22 min Scan# 1553
Delta R.T. -0.01 min
Lab File: BF115057.D
Acq: 14 Jun 2019 23:03

Tgt Ion:178 Resp: 231280
Ion Ratio Lower Upper
178 100
176 19.2 16.2 24.4
179 16.8 13.2 19.8





#75

Fluoranthene

Concen: 56.047 ng

RT: 12.36 min Scan# 1747

Delta R.T. 0.00 min

Lab File: BF115057.D

Acq: 14 Jun 2019 23:03

Instrument :

BNA_F

ClientSampleId :

RBR-200029

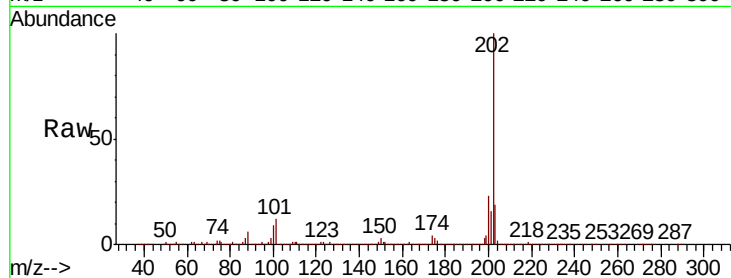
Tot Ion:202 Resp: 2557828

Ion Ratio Lower Upper

202 100

101 12.1 0.0 32.4

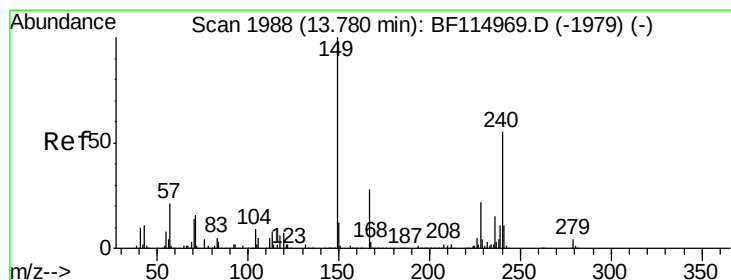
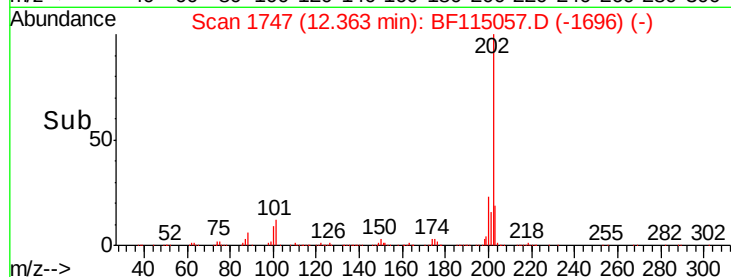
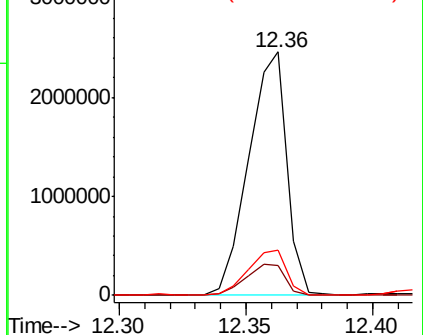
203 18.7 0.0 38.6



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.77 min Scan# 1986

Delta R.T. -0.01 min

Lab File: BF115057.D

Acq: 14 Jun 2019 23:03

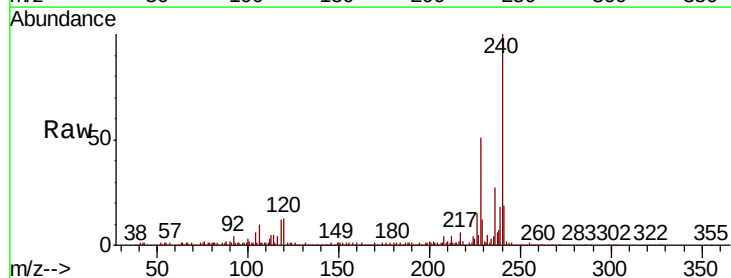
Tgt Ion:240 Resp: 535726

Ion Ratio Lower Upper

240 100

120 13.3 10.0 15.0

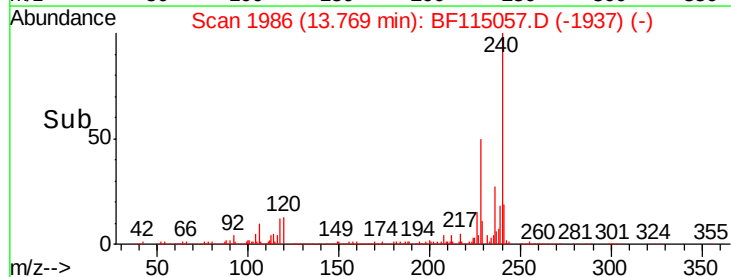
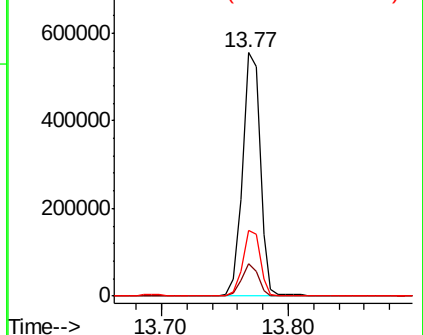
236 26.8 21.6 32.4

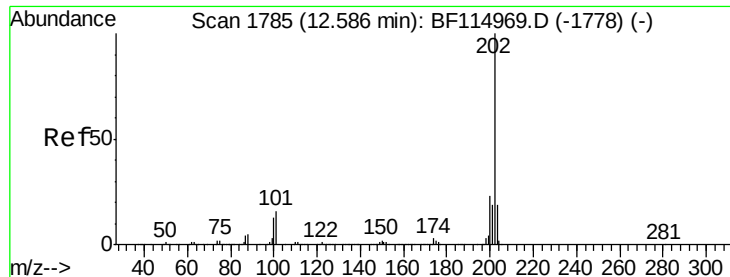


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

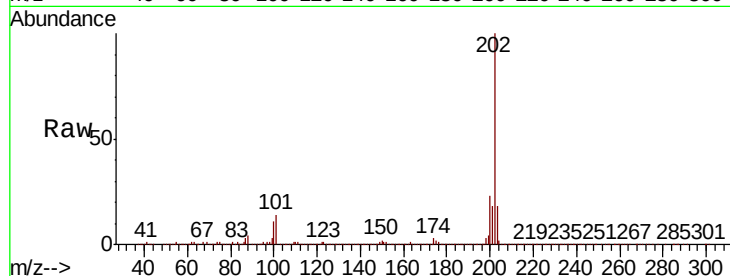




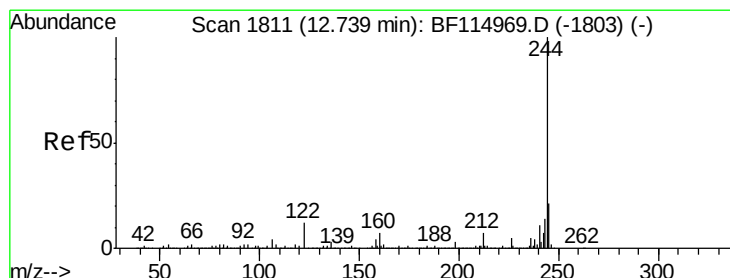
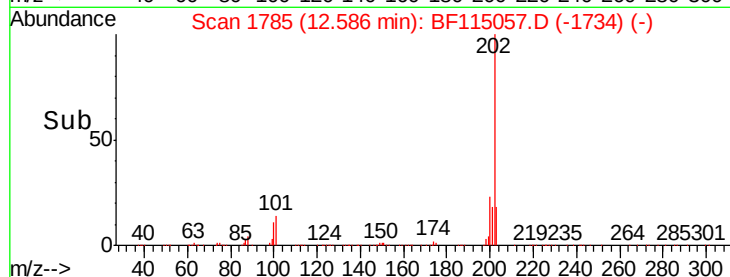
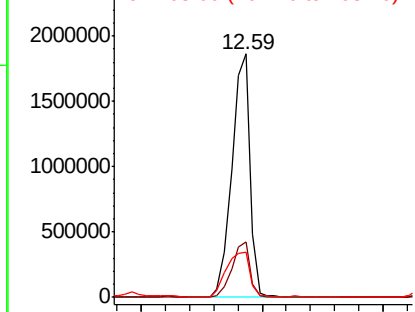
#78
Pvrene
Concen: 39.749 ng
RT: 12.59 min Scan# 1785
Delta R.T. 0.00 min
Lab File: BF115057.D
Acq: 14 Jun 2019 23:03

Instrument :
BNA_F
ClientSampleId :
RBR-200029

Tot Ion:202 Resp: 1939891
Ion Ratio Lower Upper
202 100
200 22.7 18.4 27.6
203 18.3 14.9 22.3

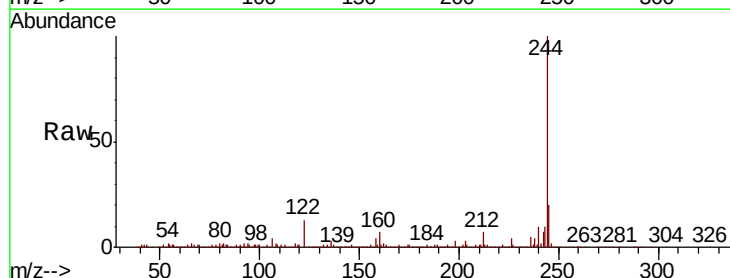


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

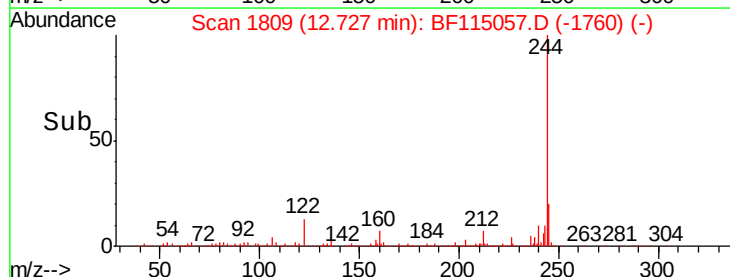
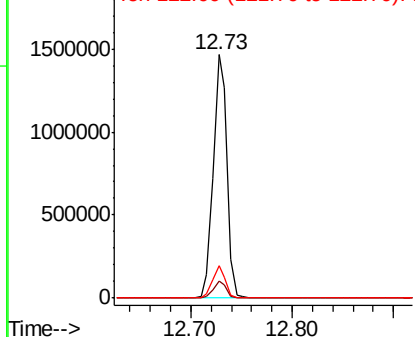


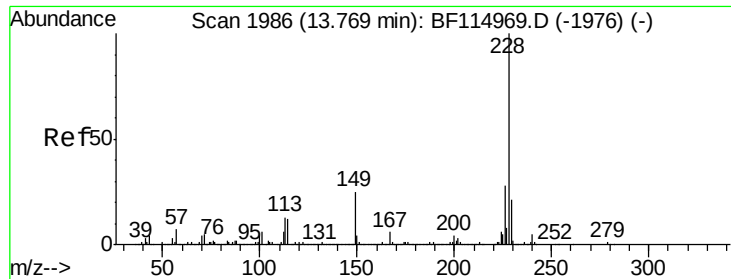
#79
Terphenyl-d14
Concen: 48.207 ng
RT: 12.73 min Scan# 1809
Delta R.T. -0.01 min
Lab File: BF115057.D
Acq: 14 Jun 2019 23:03

Tgt Ion:244 Resp: 1373073
Ion Ratio Lower Upper
244 100
212 7.0 5.8 8.8
122 13.1 9.4 14.0



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 15.395 ng

RT: 13.76 min Scan# 1985

Delta R.T. -0.01 min

Lab File: BF115057.D

Acq: 14 Jun 2019 23:03

Instrument :

BNA_F

ClientSampleId :

RBR-200029

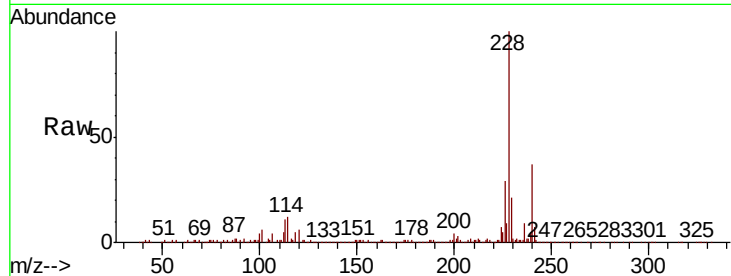
Tot Ion:228 Resp: 617175

Ion	Ratio	Lower	Upper
228	100		
226	29.3	22.0	33.0
229	21.3	16.6	25.0

228 100

226 29.3 22.0 33.0

229 21.3 16.6 25.0

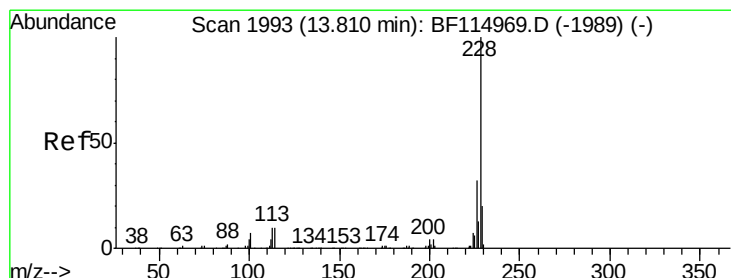
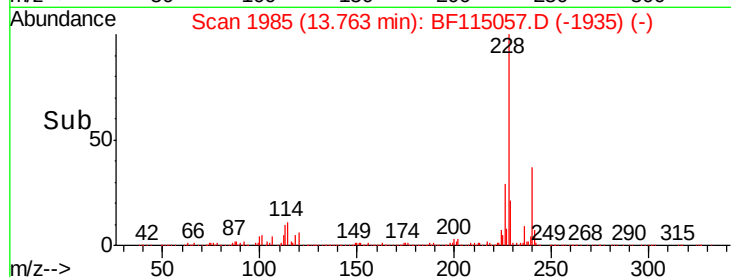
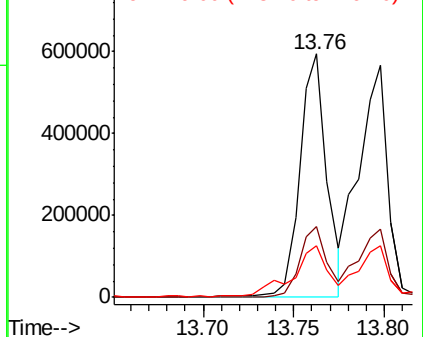


Abundance

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



#83

Chrysene

Concen: 15.961 ng

RT: 13.80 min Scan# 1991

Delta R.T. -0.01 min

Lab File: BF115057.D

Acq: 14 Jun 2019 23:03

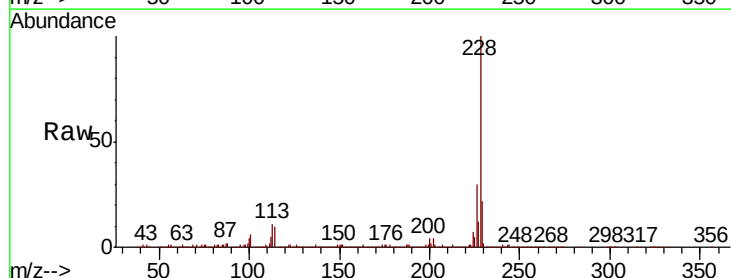
Tgt Ion:228 Resp: 636308

Ion	Ratio	Lower	Upper
228	100		
226	29.7	25.4	38.0
229	22.4	16.4	24.6

228 100

226 29.7 25.4 38.0

229 22.4 16.4 24.6

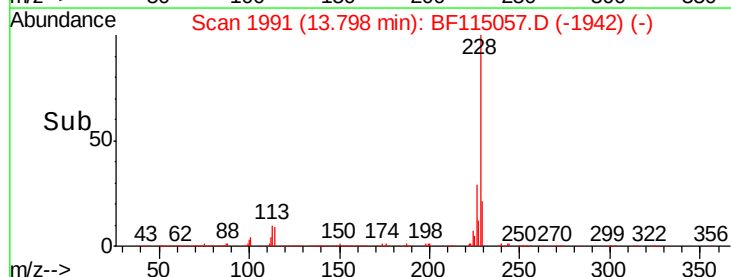
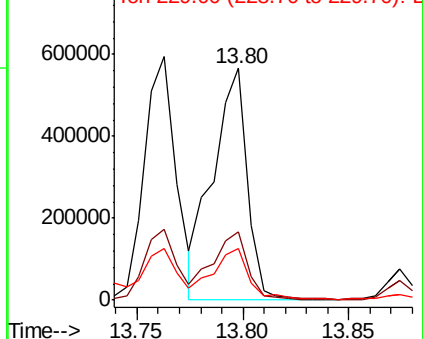


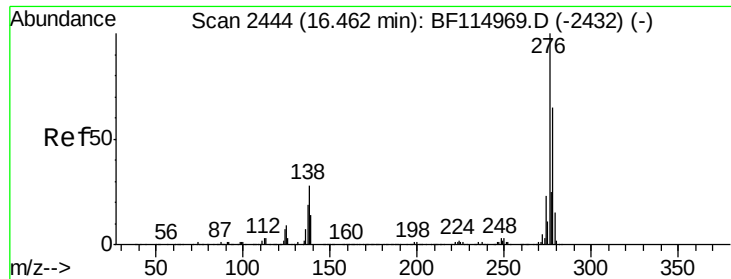
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

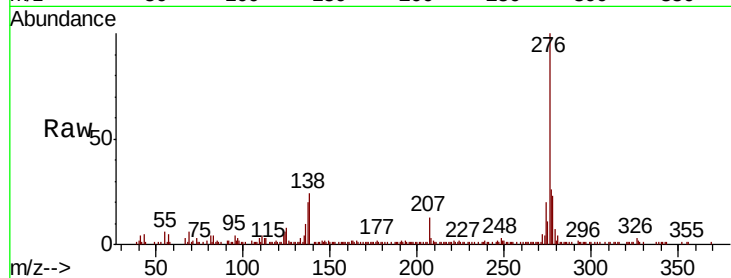




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 2.859 ng
 RT: 16.44 min Scan# 2440
 Delta R.T. -0.02 min
 Lab File: BF115057.D
 Acq: 14 Jun 2019 23:03

Instrument :
 BNA_F
 ClientSampleId :
 RBR-200029

Tot Ion	Ratio	Lower	Upper
276	100		
138	25.4	23.0	34.4
277	24.7	20.6	30.8

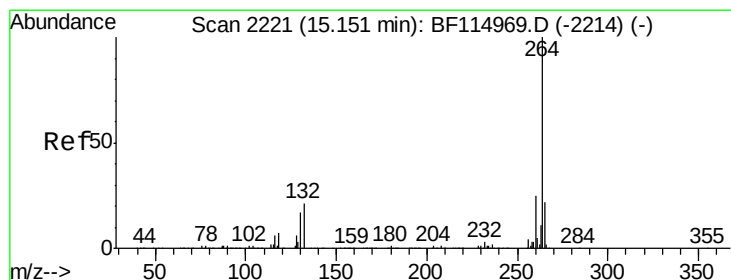
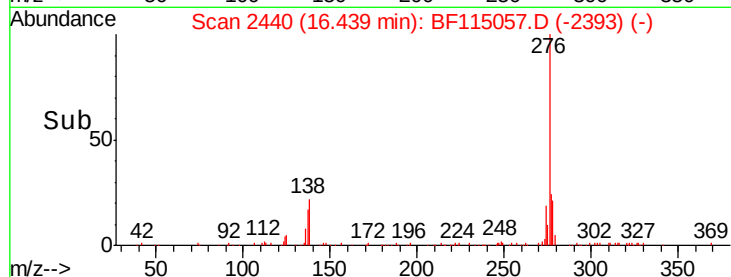
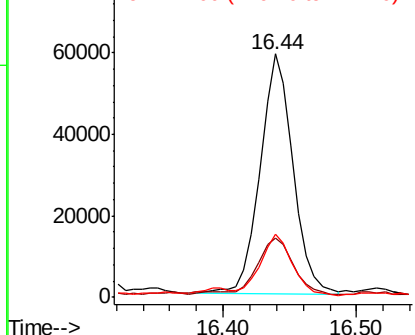


Abundance

Ion 276.00 (275.70 to 276.70): E

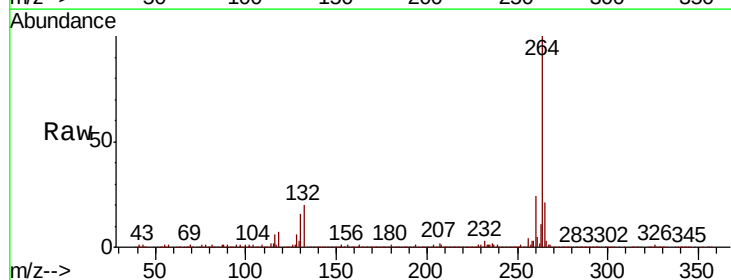
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.14 min Scan# 2220
 Delta R.T. -0.01 min
 Lab File: BF115057.D
 Acq: 14 Jun 2019 23:03

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.9	29.9
265	21.2	17.6	26.4

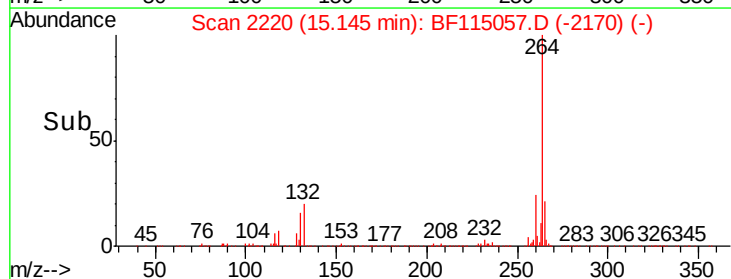
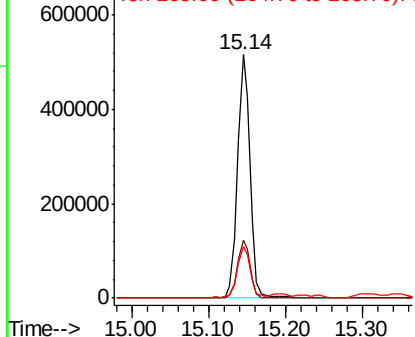


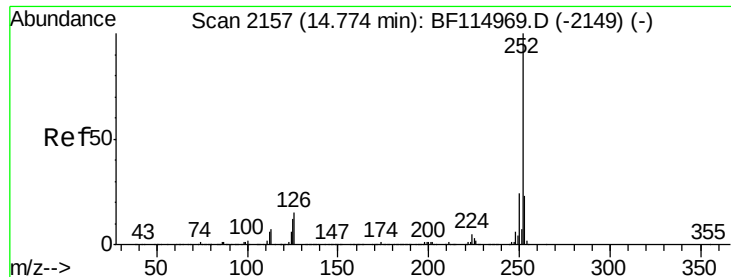
Abundance

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: 16.019 ng m

RT: 14.77 min Scan# 2156

Delta R.T. -0.01 min

Lab File: BF115057.D

Acq: 14 Jun 2019 23:03

Instrument :

BNA_F

ClientSampleId :

RBR-200029

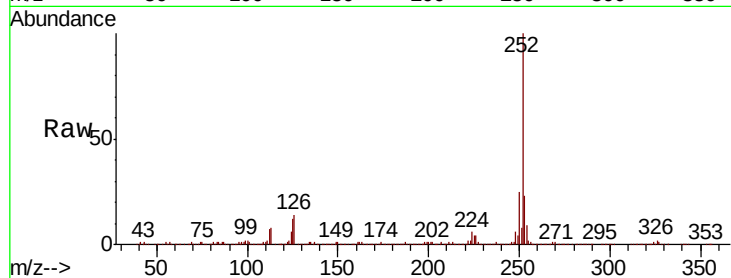
Tot Ion:252 Resp: 630291

Ion Ratio Lower Upper

252 100

253 23.1 18.1 27.1

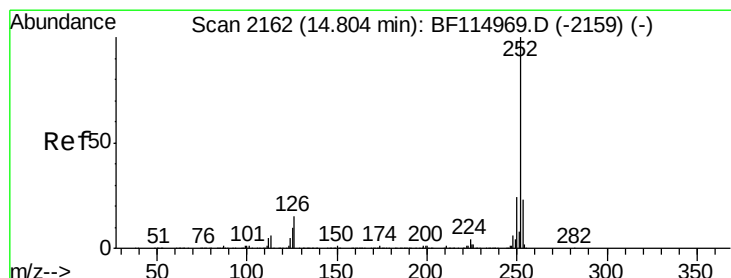
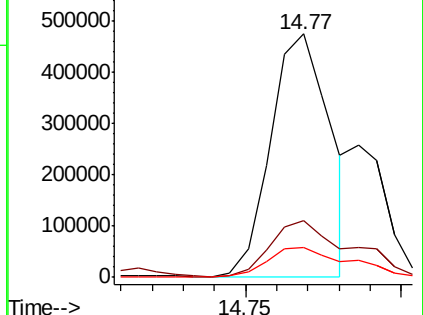
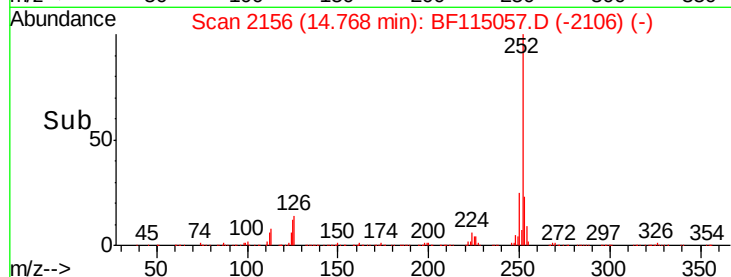
125 12.3 9.4 14.0



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: 6.168 ng m

RT: 14.79 min Scan# 2159

Delta R.T. -0.02 min

Lab File: BF115057.D

Acq: 14 Jun 2019 23:03

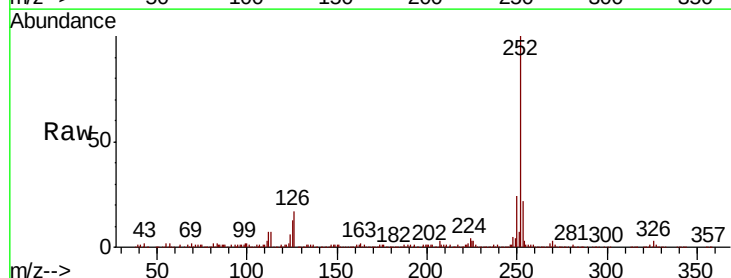
Tgt Ion:252 Resp: 213025

Ion Ratio Lower Upper

252 100

253 22.5 18.0 27.0

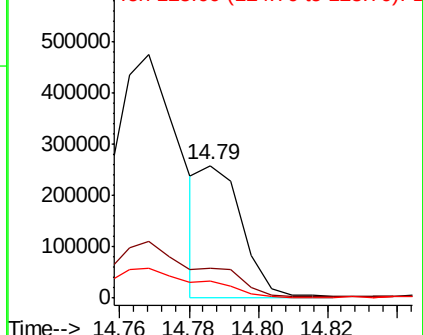
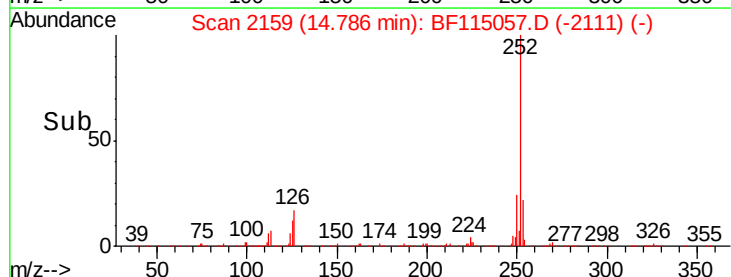
125 12.5 8.2 12.4#

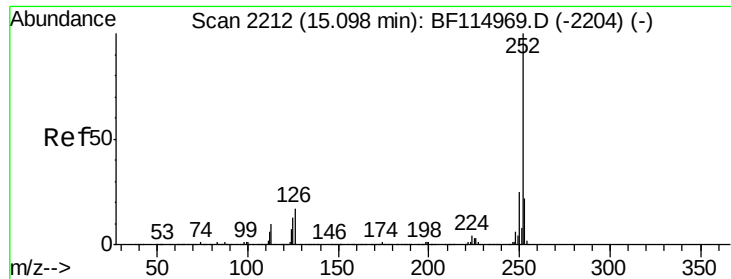


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

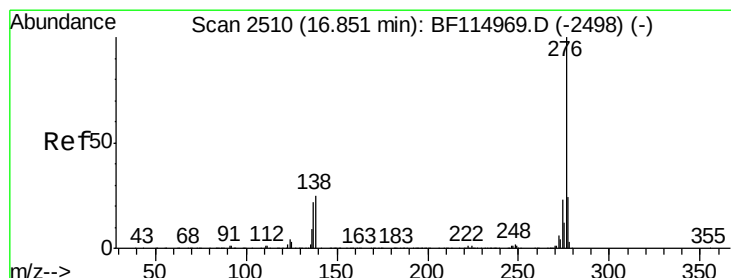
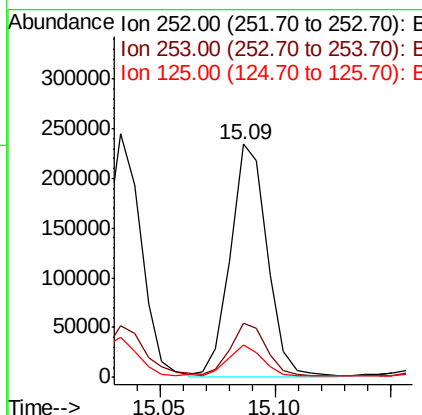
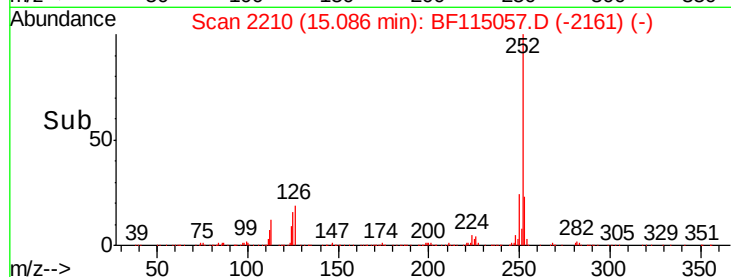
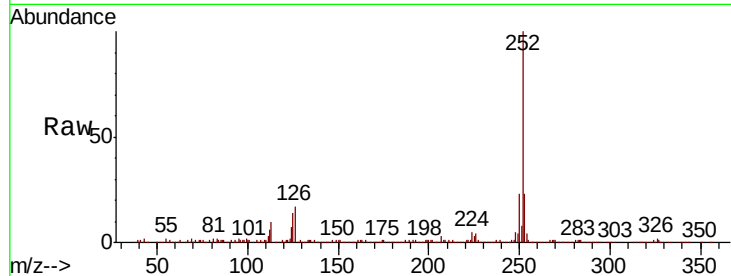




#90
Benzo(a)pyrene
Concen: 7.635 ng
RT: 15.09 min Scan# 2210
Delta R.T. -0.01 min
Lab File: BF115057.D
Acq: 14 Jun 2019 23:03

Instrument :
BNA_F
ClientSampleId :
RBR-200029

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.8	26.8
125	13.7	10.7	16.1



#92
Benzo(g,h,i)perylene
Concen: 2.643 ng
RT: 16.83 min Scan# 2506
Delta R.T. -0.02 min
Lab File: BF115057.D
Acq: 14 Jun 2019 23:03

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.1	18.8	28.2
138	28.0	20.2	30.4

