

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071619\
 Data File : BF115602.D
 Acq On : 16 Jul 2019 17:30
 Operator : HP/JU
 Sample : K3830-07
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

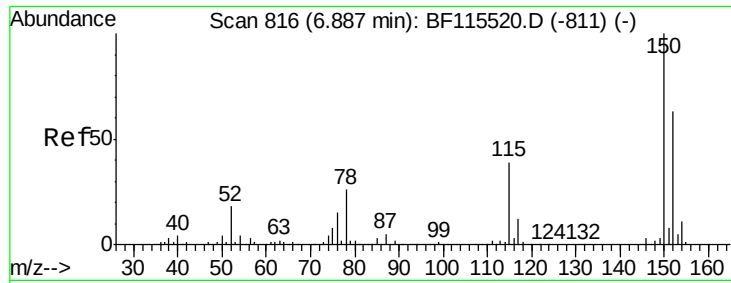
Quant Time: Jul 17 03:52:13 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 12 14:03:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	182576	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	737855	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	367110	20.00	ng	-0.01
64) Phenanthrene-d10	11.40	188	680976	20.00	ng	0.00
76) Chrysene-d12	14.04	240	381199	20.00	ng	-0.01
87) Perylene-d12	15.51	264	461202	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.51	112	1445903	129.54	ng	0.00
7) Phenol-d6	6.52	99	1865200	131.69	ng	0.00
23) Nitrobenzene-d5	7.44	82	1204851	94.95	ng	-0.01
42) 2,4,6-Tribromophenol	10.71	330	458308	106.95	ng	0.00
45) 2-Fluorobiphenyl	9.24	172	1901091	90.64	ng	-0.01
79) Terphenyl-d14	12.99	244	1637160	79.25	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.44	70	161468	17.481	ng	# 79
25) Isophorone	7.44	82	1184287	46.640	ng	# 64
50) Dimethylphthalate	9.63	163	368741	13.350	ng	99
57) 2,4-Dinitrotoluene	9.92	165	46221	5.684	ng	# 24
67) 4-Bromophenyl-phenylether	10.71	248	28354	3.644	ng	# 1
71) Phenanthrene	11.43	178	290556	8.324	ng	95
72) Anthracene	11.47	178	99452	2.757	ng	97
75) Fluoranthene	12.62	202	685301	18.579	ng	100
78) Pyrene	12.84	202	601893	18.636	ng	97
81) Benzo(a)anthracene	14.03	228	352553	14.038	ng	99
83) Chrysene	14.06	228	331747	13.159	ng	96
86) Indeno(1,2,3-cd)pyrene	16.97	276	184418	8.610	ng	93
88) Benzo(b)fluoranthene	15.08	252	573714	19.318	ng	100
89) Benzo(k)fluoranthene	15.08	252	573714	21.668	ng	99
90) Benzo(a)pyrene	15.44	252	294016	11.519	ng	98
91) Dibenzo(a,h)anthracene	16.99	278	51831	2.313	ng	97
92) Benzo(a,h,i)perylene	17.42	276	161988	7.248	ng	98

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

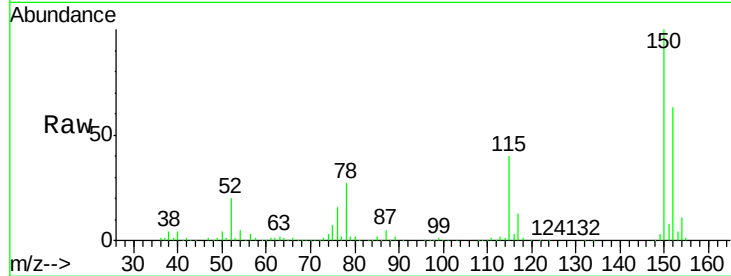


#1

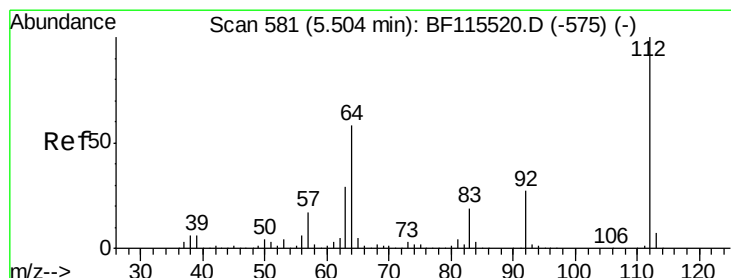
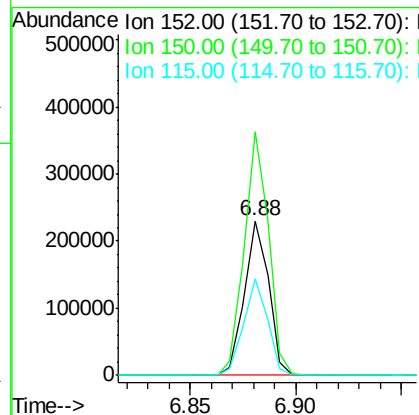
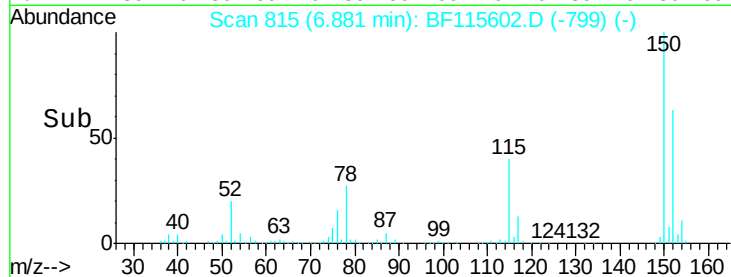
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.88 min Scan# 815
Delta R.T. -0.01 min
Lab File: BF115602.D
Acq: 16 Jul 2019 17:30

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 182576
Ion Ratio Lower Upper
152 100
150 157.6 129.7 194.5
115 62.4 48.2 72.4



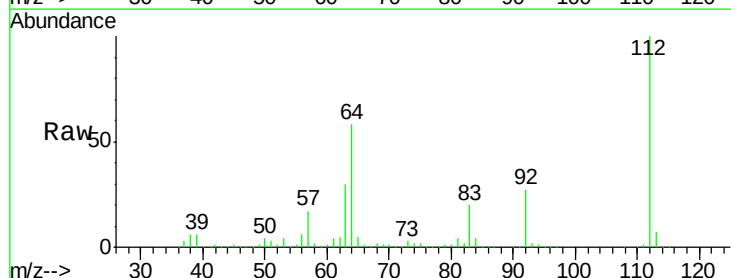
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



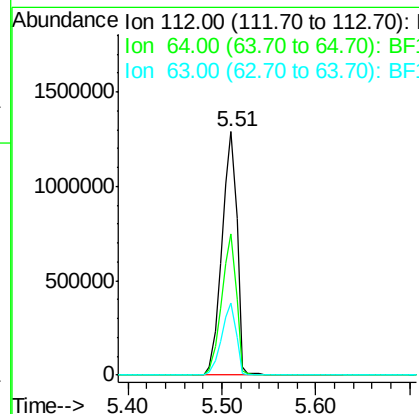
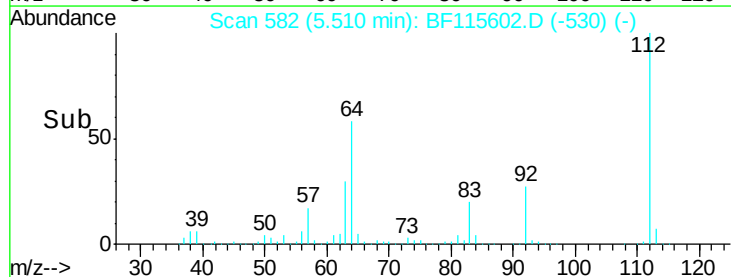
#5

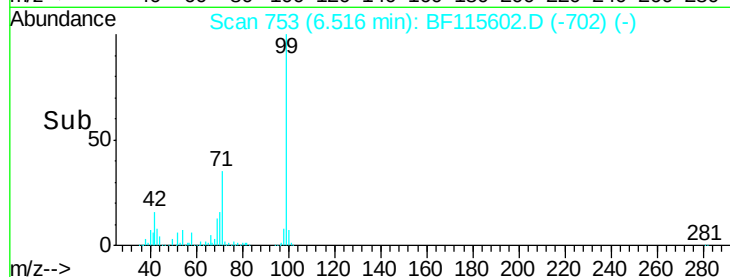
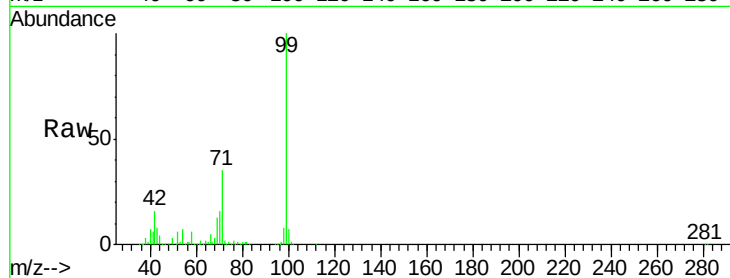
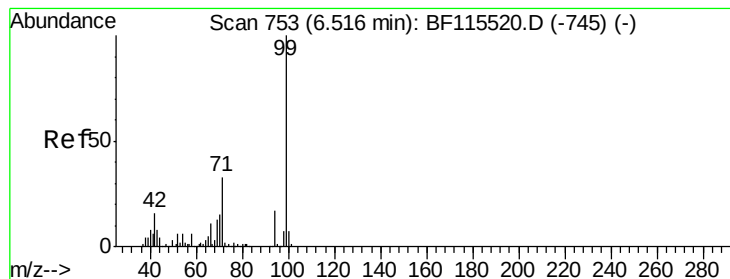
2-Fluorophenol
Concen: 129.539 ng
RT: 5.51 min Scan# 582
Delta R.T. 0.01 min
Lab File: BF115602.D
Acq: 16 Jul 2019 17:30

Tgt Ion:112 Resp: 1445903
Ion Ratio Lower Upper
112 100
64 58.0 46.8 70.2
63 29.9 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





#7

Phenol-d6

Concen: 131.694 ng

RT: 6.52 min Scan# 753

Delta R.T. 0.00 min

Lab File: BF115602.D

Acq: 16 Jul 2019 17:30

Instrument :

BNA_F

ClientSampleId :

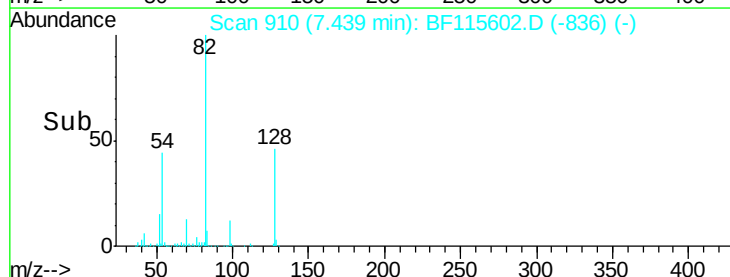
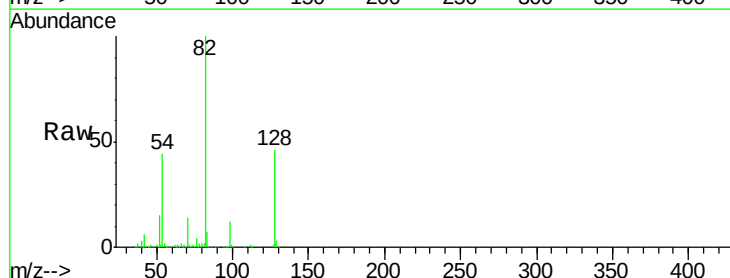
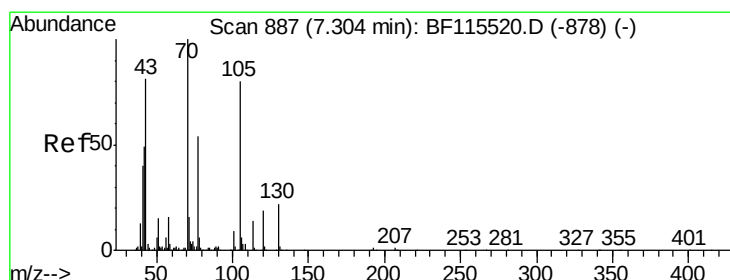
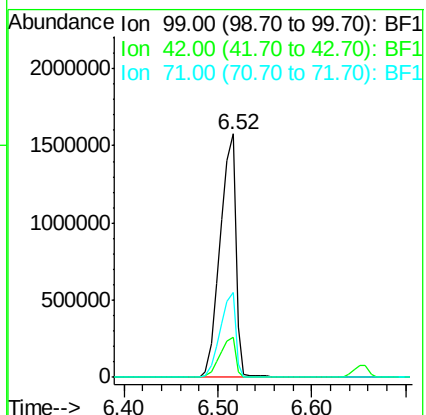
Tot Ion: 99 Resp: 1865200

Ion Ratio Lower Upper

99 100

42 16.3 13.6 20.4

71 35.0 28.5 42.7



#19

n-Nitroso-di-n-propylamine

Concen: 17.481 ng

RT: 7.44 min Scan# 910

Delta R.T. 0.14 min

Lab File: BF115602.D

Acq: 16 Jul 2019 17:30

Tgt Ion: 70 Resp: 161468

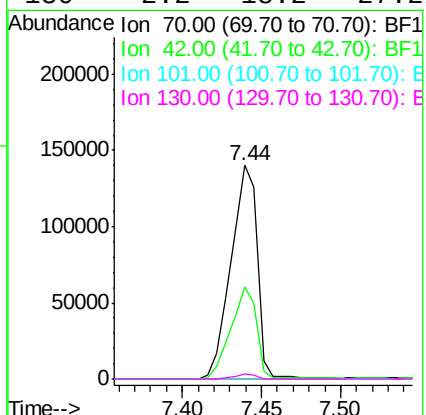
Ion Ratio Lower Upper

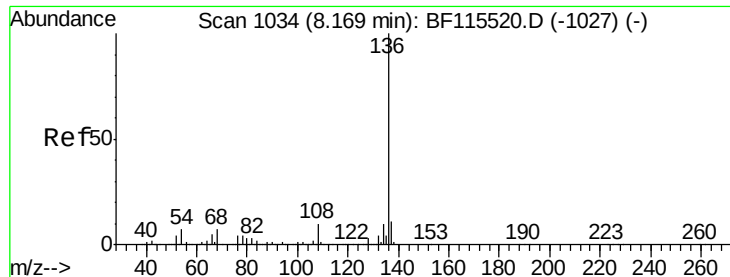
70 100

42 43.1 39.6 59.4

101 0.0 8.1 12.1#

130 2.2 18.2 27.2#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.16 min Scan# 1033

Delta R.T. -0.01 min

Lab File: BF115602.D

Acq: 16 Jul 2019 17:30

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 737855

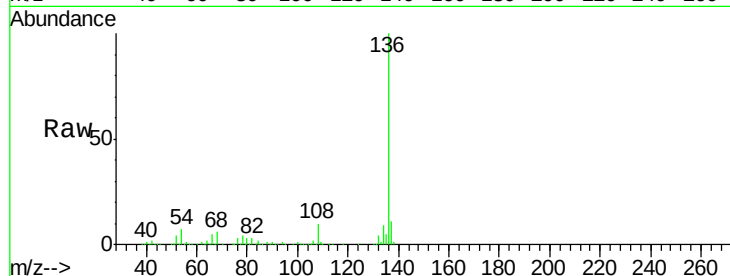
Ion Ratio Lower Upper

136 100

137 10.9 9.0 13.4

54 6.7 5.6 8.4

68 6.1 5.0 7.6

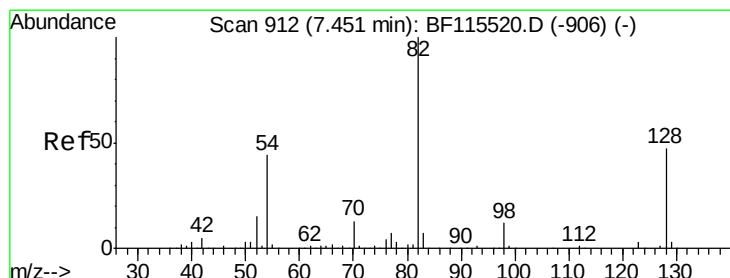
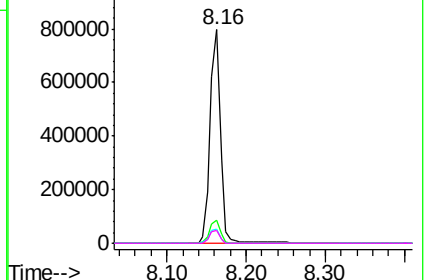
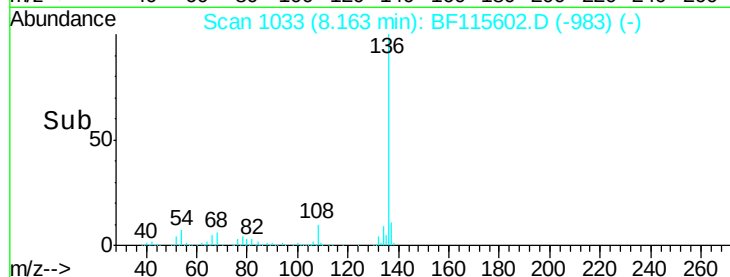


Abundance Ion 136.00 (135.70 to 136.70): E

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: 94.948 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.01 min

Lab File: BF115602.D

Acq: 16 Jul 2019 17:30

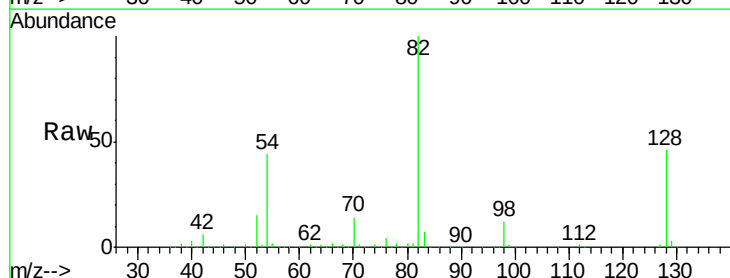
Tgt Ion: 82 Resp: 1204851

Ion Ratio Lower Upper

82 100

128 46.1 38.6 57.8

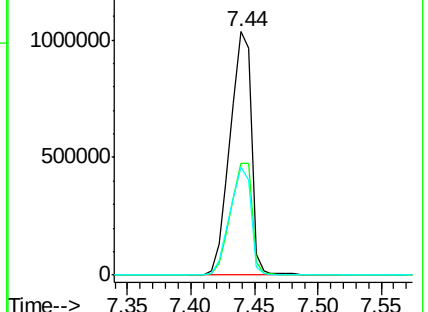
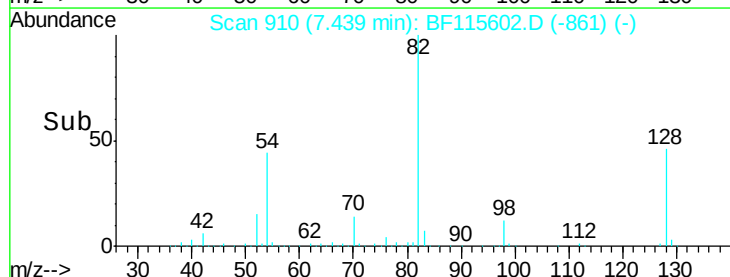
54 44.2 35.6 53.4

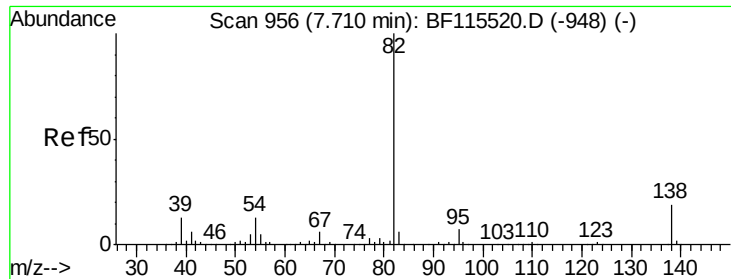


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 46.640 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.27 min

Lab File: BF115602.D

Acq: 16 Jul 2019 17:30

Instrument :

BNA_F

ClientSampleId :

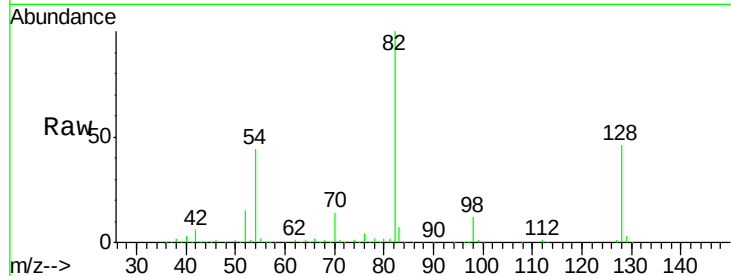
Tot Ion: 82 Resp: 1184287

Ion Ratio Lower Upper

82 100

95 0.0 5.5 8.3#

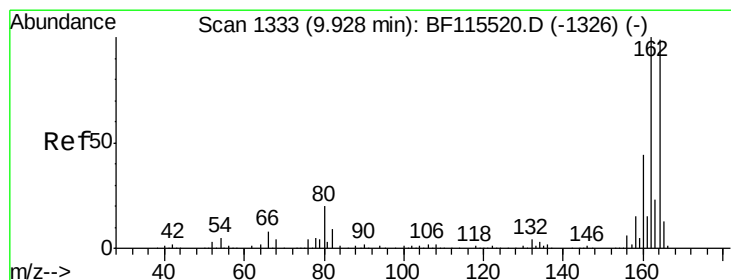
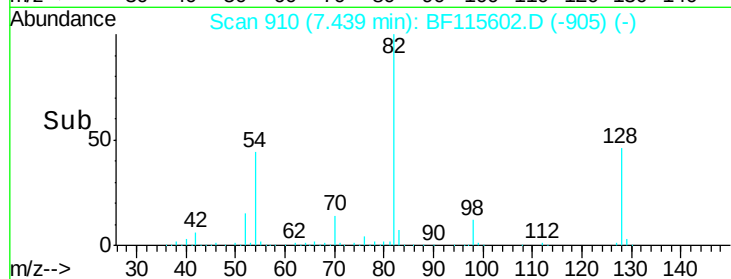
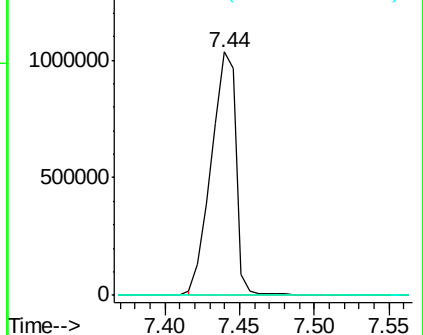
138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.92 min Scan# 1331

Delta R.T. -0.01 min

Lab File: BF115602.D

Acq: 16 Jul 2019 17:30

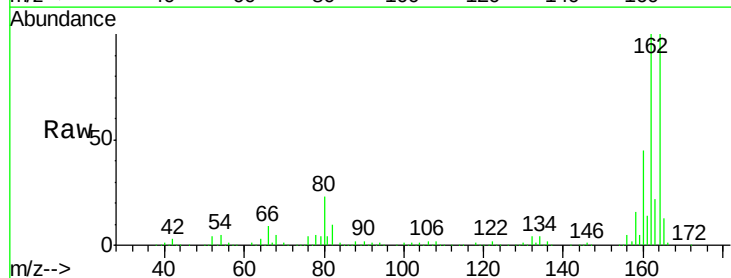
Tgt Ion:164 Resp: 367110

Ion Ratio Lower Upper

164 100

162 99.8 82.9 124.3

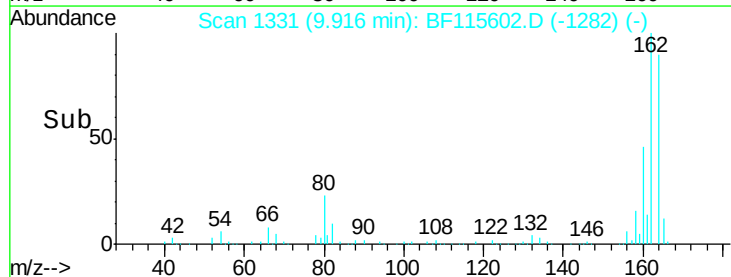
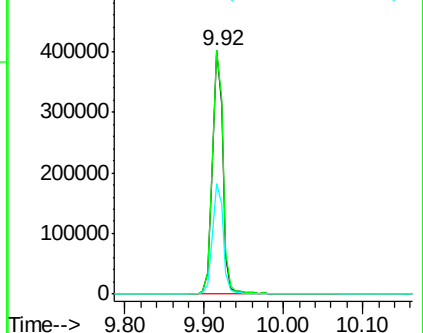
160 45.1 36.8 55.2

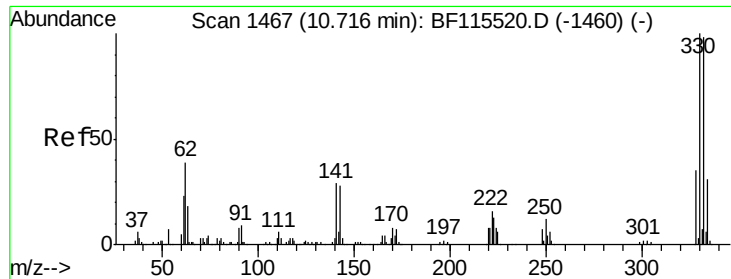


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 106.955 ng

RT: 10.71 min Scan# 1466

Delta R.T. -0.01 min

Lab File: BF115602.D

Acq: 16 Jul 2019 17:30

Instrument :

BNA_F

ClientSampled :

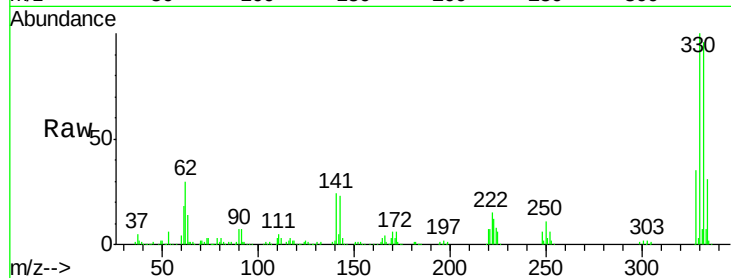
Tot Ion:330 Resp: 458308

Ion Ratio Lower Upper

330 100

332 96.0 77.4 116.2

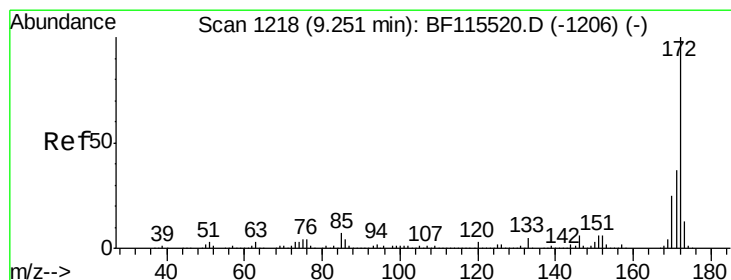
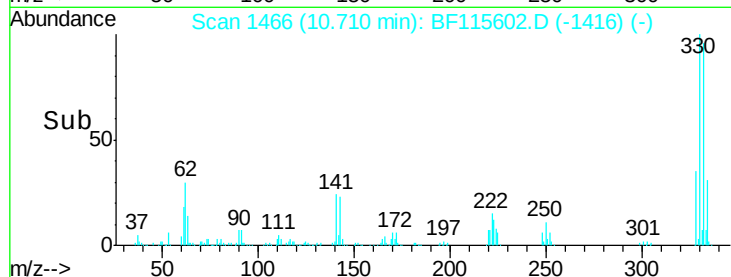
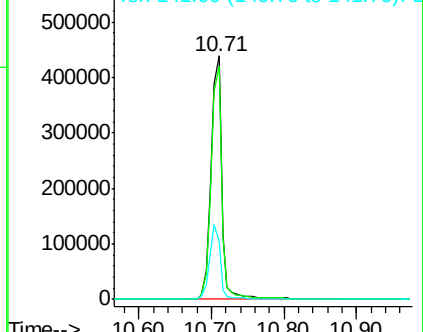
141 30.7 22.4 33.6



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: 90.639 ng

RT: 9.24 min Scan# 1216

Delta R.T. -0.01 min

Lab File: BF115602.D

Acq: 16 Jul 2019 17:30

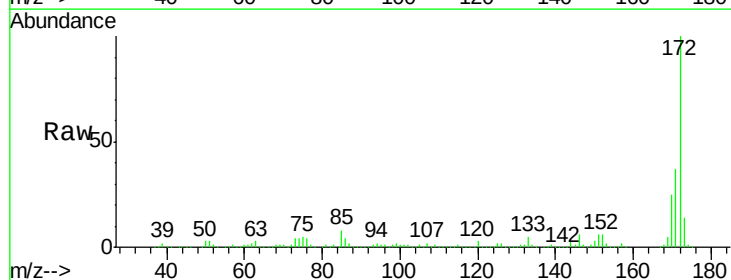
Tgt Ion:172 Resp: 1901091

Ion Ratio Lower Upper

172 100

171 37.4 30.6 46.0

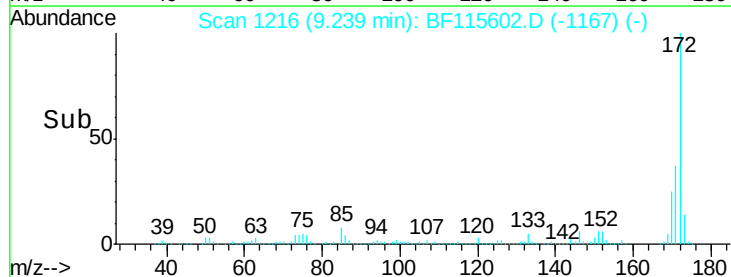
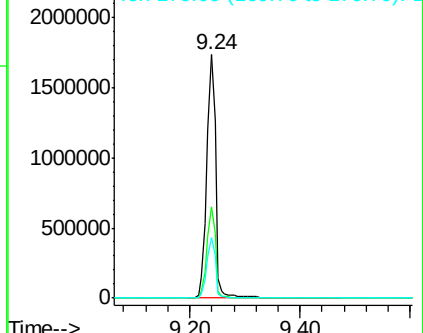
170 25.0 20.5 30.7

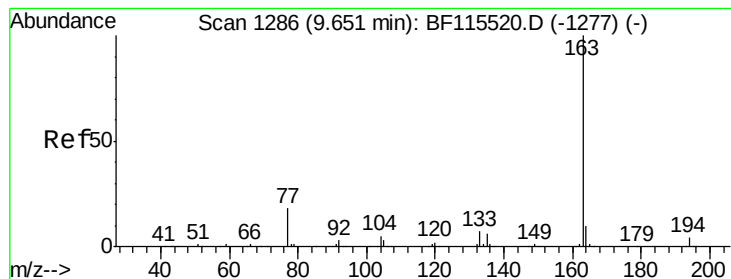


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 13.350 ng

RT: 9.63 min Scan# 1282

Delta R.T. -0.02 min

Lab File: BF115602.D

Acq: 16 Jul 2019 17:30

Instrument :

BNA_F

ClientSampleId :

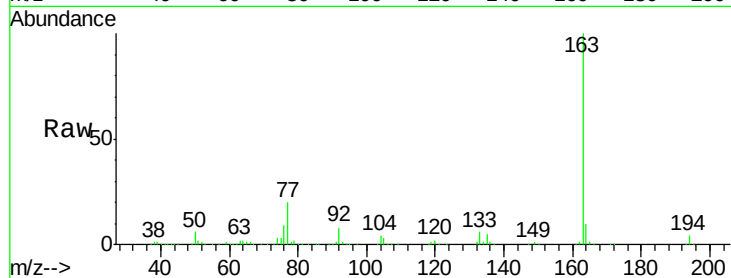
Tot Ion:163 Resp: 368741

Ion Ratio Lower Upper

163 100

194 3.8 3.3 4.9

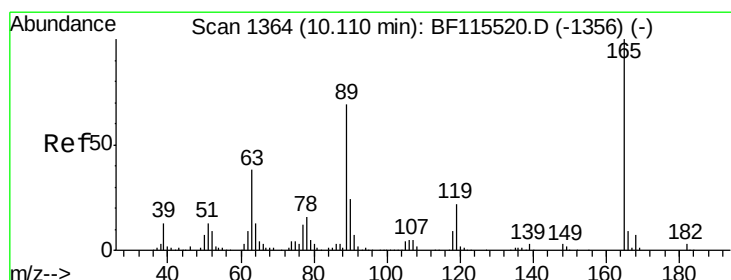
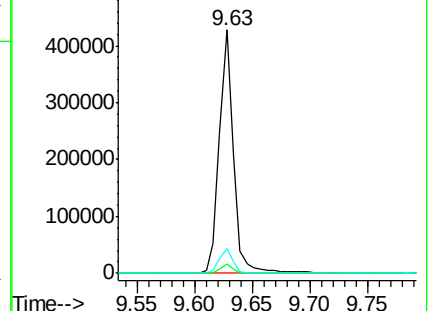
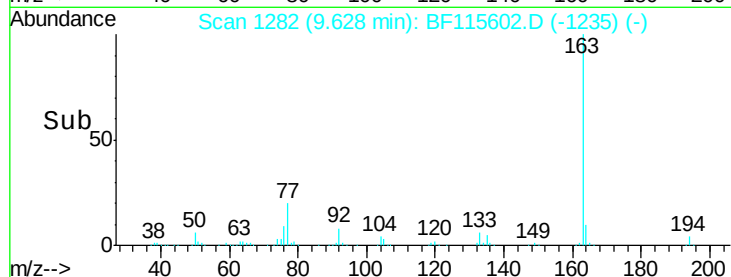
164 10.3 8.7 13.1



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



#57

2,4-Dinitrotoluene

Concen: 5.684 ng

RT: 9.92 min Scan# 1331

Delta R.T. -0.19 min

Lab File: BF115602.D

Acq: 16 Jul 2019 17:30

Tgt Ion:165 Resp: 46221

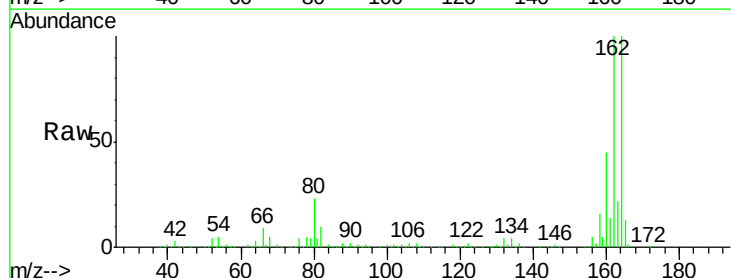
Ion Ratio Lower Upper

165 100

63 1.3 34.9 52.3#

89 0.9 57.5 86.3#

182 0.0 2.2 3.4#

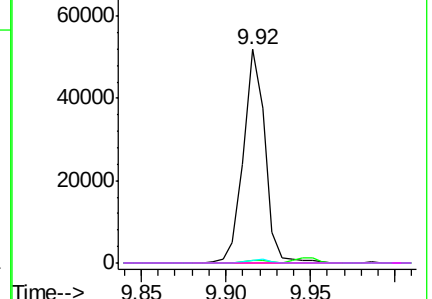
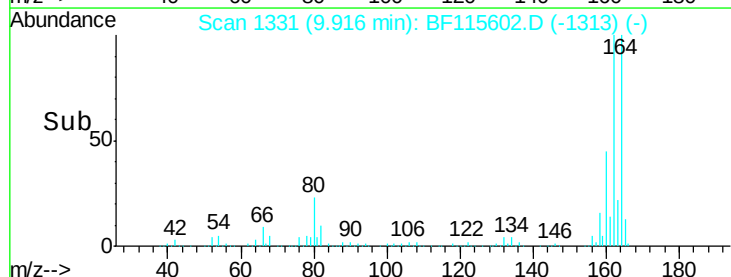


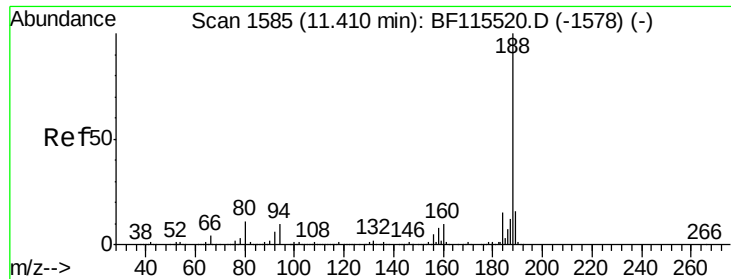
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

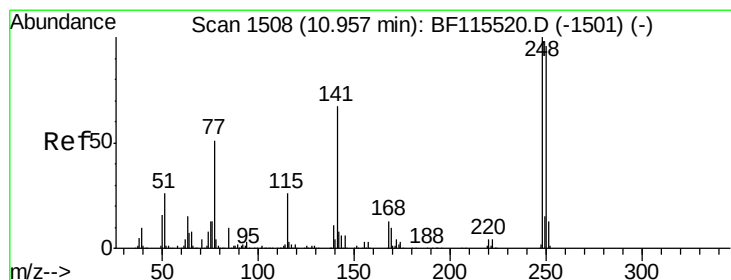
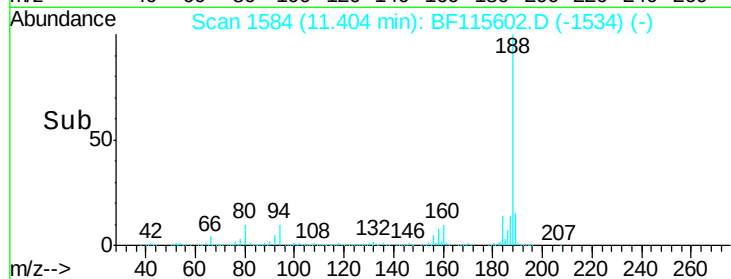
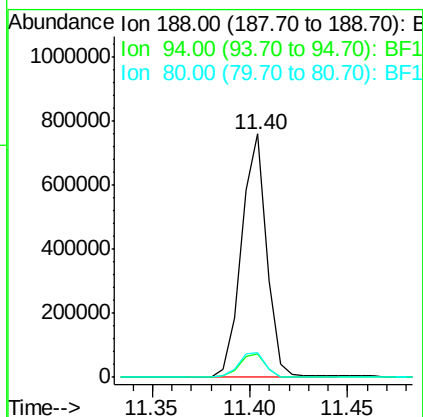
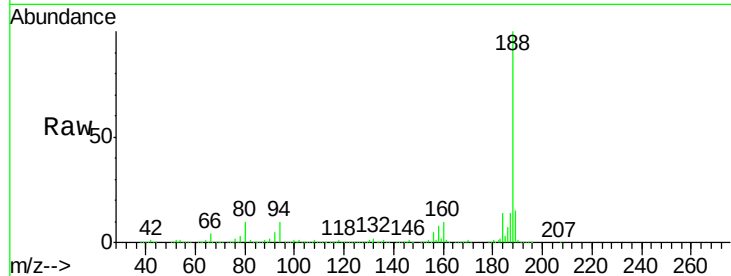




#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BF115602.D
 Acq: 16 Jul 2019 17:30

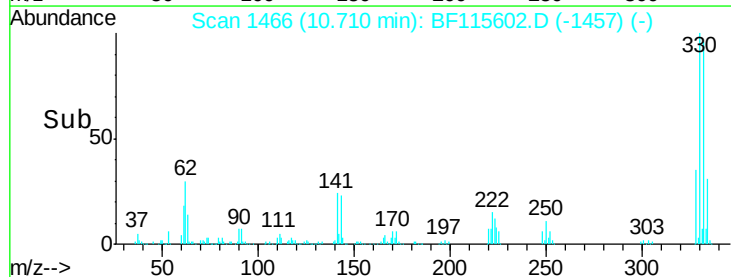
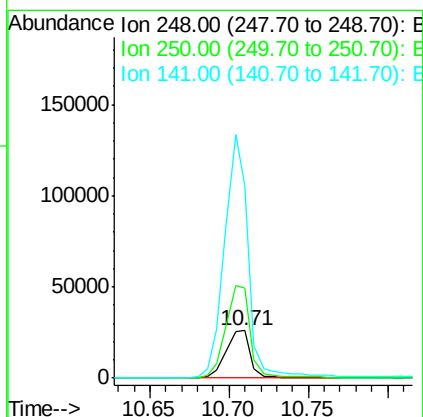
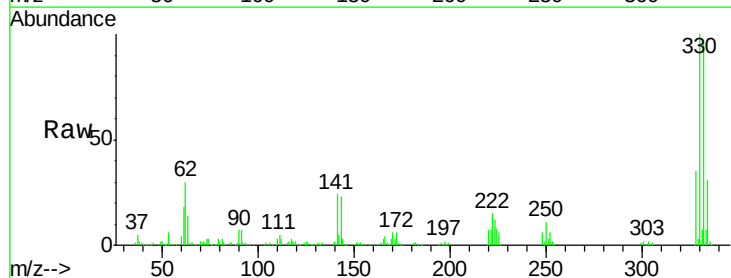
Instrument :
 BNA_F
 ClientSampled :

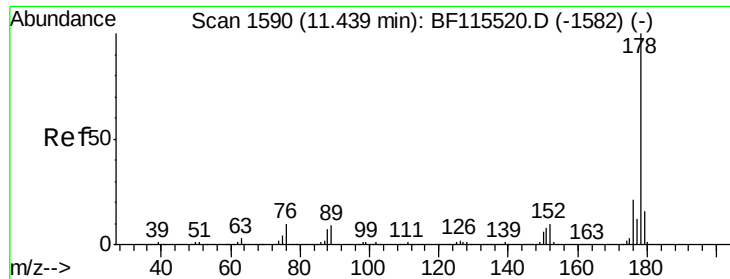
Tot Ion:188 Resp: 680976
 Ion Ratio Lower Upper
 188 100
 94 9.6 7.8 11.6
 80 10.3 8.6 13.0



#67
 4-Bromophenyl-phenylether
 Concen: 3.644 ng
 RT: 10.71 min Scan# 1466
 Delta R.T. -0.25 min
 Lab File: BF115602.D
 Acq: 16 Jul 2019 17:30

Tgt Ion:248 Resp: 28354
 Ion Ratio Lower Upper
 248 100
 250 189.4 78.0 117.0#
 141 405.9 57.7 86.5#

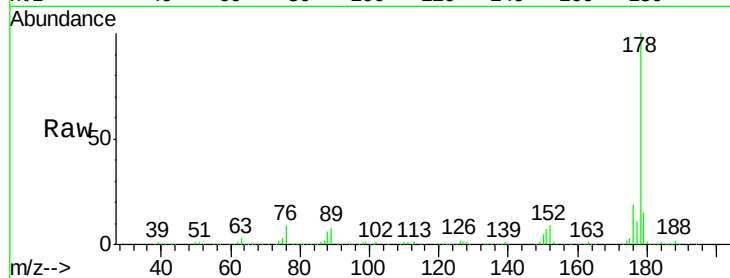




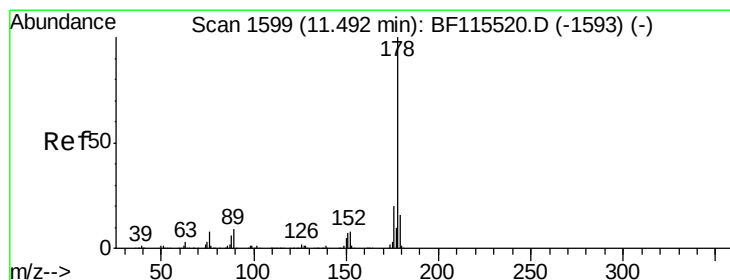
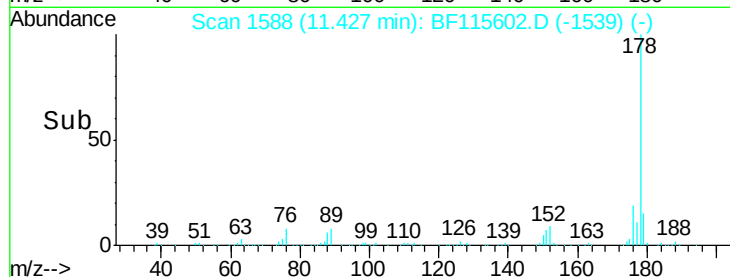
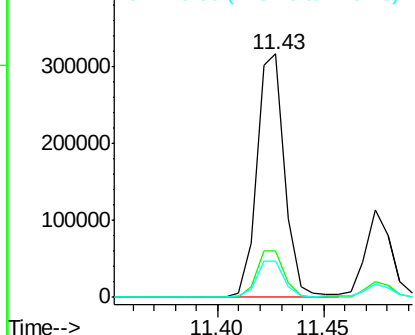
#71
Phenanthrene
Concen: 8.324 ng
RT: 11.43 min Scan# 1588
Delta R.T. -0.01 min
Lab File: BF115602.D
Acq: 16 Jul 2019 17:30

Instrument :
BNA_F
ClientSampleId :

Tot Ion:178 Resp: 290556
Ion Ratio Lower Upper
178 100
176 19.3 17.2 25.8
179 15.0 13.5 20.3

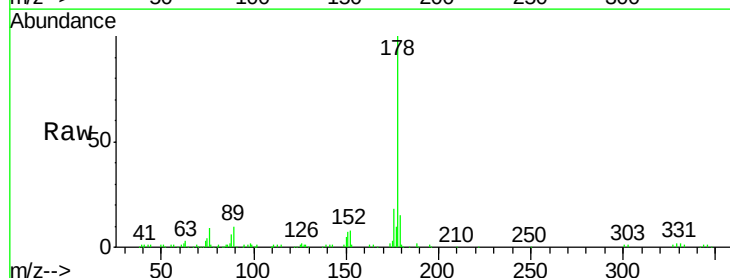


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

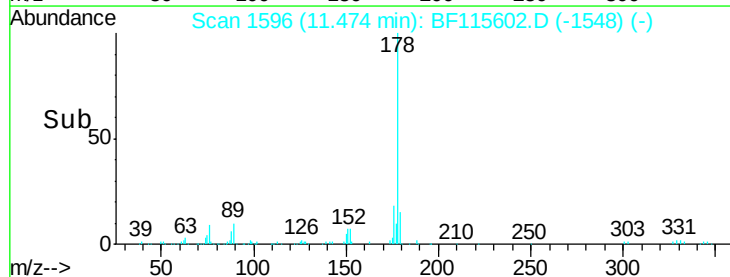
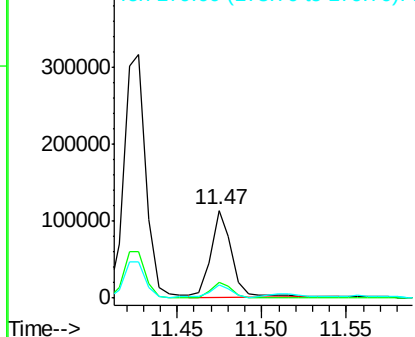


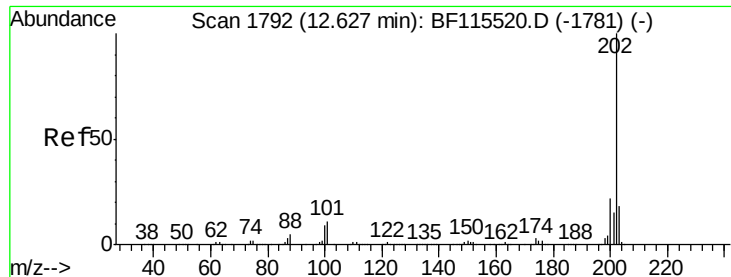
#72
Anthracene
Concen: 2.757 ng
RT: 11.47 min Scan# 1596
Delta R.T. -0.02 min
Lab File: BF115602.D
Acq: 16 Jul 2019 17:30

Tgt Ion:178 Resp: 99452
Ion Ratio Lower Upper
178 100
176 18.0 15.9 23.9
179 15.1 12.7 19.1



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: 18.579 ng

RT: 12.62 min Scan# 1790

Delta R.T. -0.01 min

Lab File: BF115602.D

Acq: 16 Jul 2019 17:30

Instrument :

BNA_F

ClientSampled :

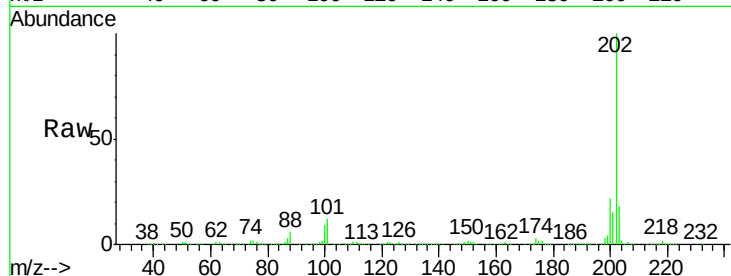
Tot Ion:202 Resp: 685301

Ion Ratio Lower Upper

202 100

101 11.7 0.0 31.4

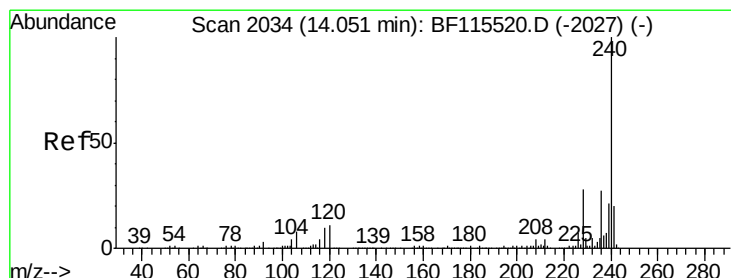
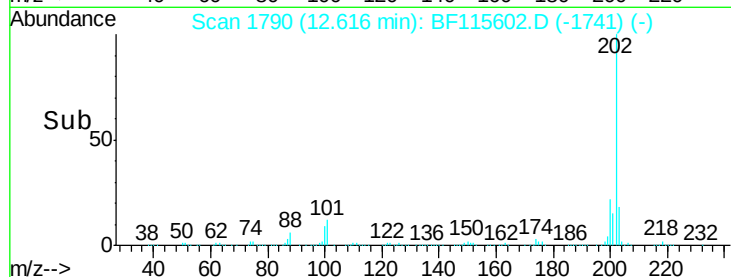
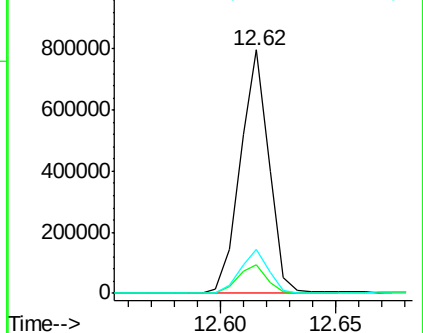
203 18.1 0.0 38.1



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: 14.04 min Scan# 2032

Delta R.T. -0.01 min

Lab File: BF115602.D

Acq: 16 Jul 2019 17:30

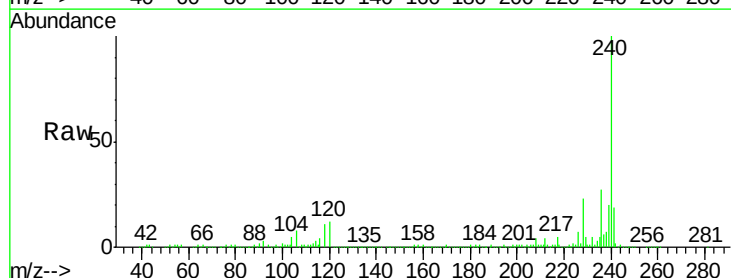
Tgt Ion:240 Resp: 381199

Ion Ratio Lower Upper

240 100

120 12.3 8.6 13.0

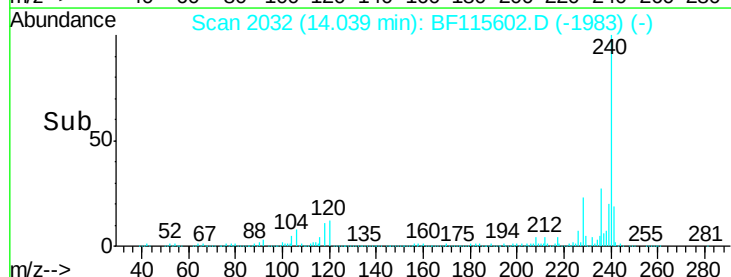
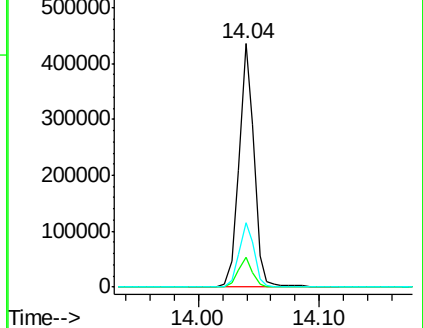
236 26.6 21.3 31.9

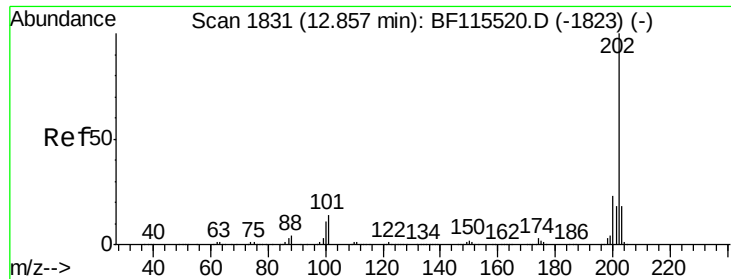


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

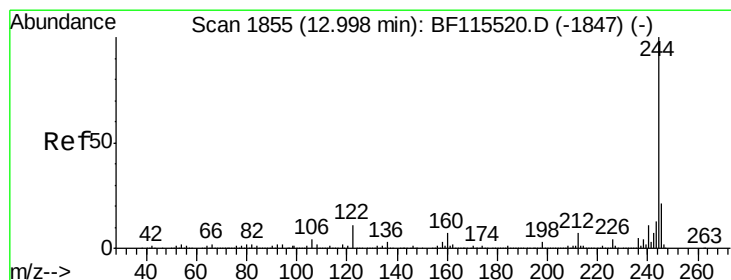
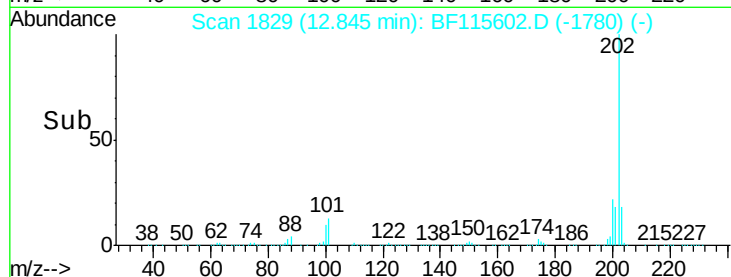
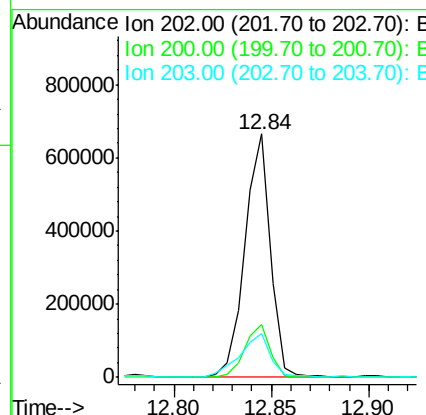
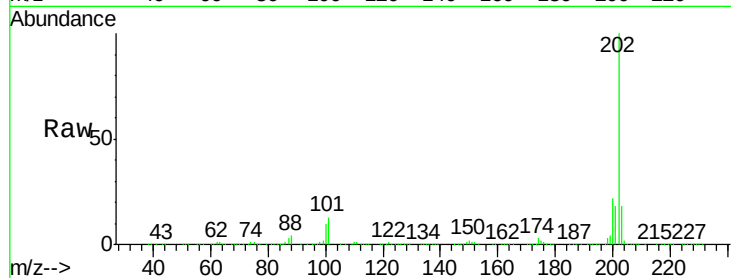




#78
Pvrene
Concen: 18.636 ng
RT: 12.84 min Scan# 1829
Delta R.T. -0.01 min
Lab File: BF115602.D
Acq: 16 Jul 2019 17:30

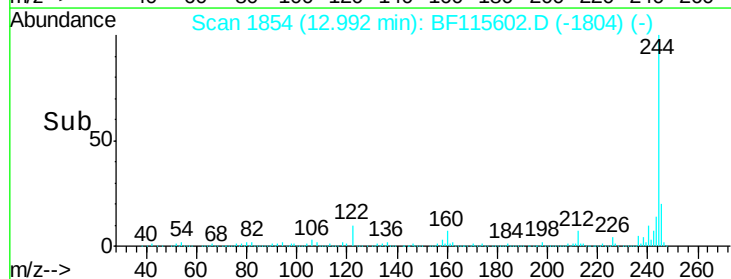
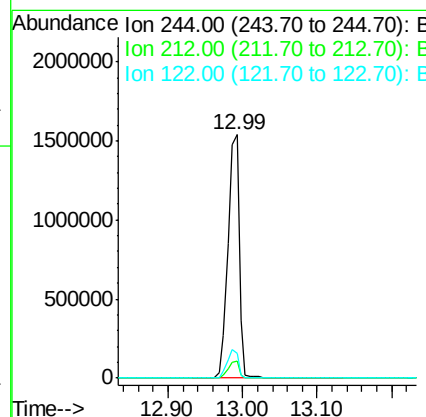
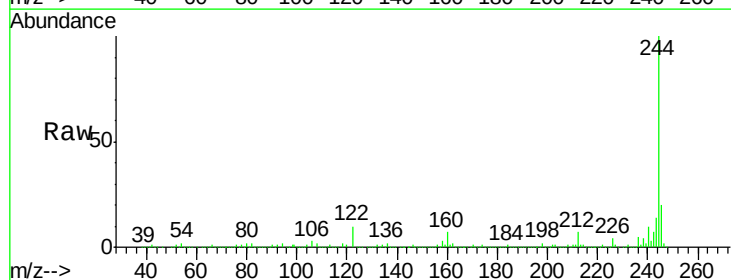
Instrument :
BNA_F
ClientSampleId :

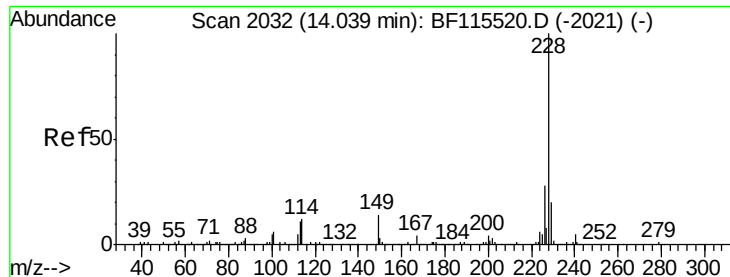
Tot Ion:202 Resp: 601893
Ion Ratio Lower Upper
202 100
200 21.8 18.7 28.1
203 17.9 15.2 22.8



#79
Terphenyl-d14
Concen: 79.246 ng
RT: 12.99 min Scan# 1854
Delta R.T. -0.01 min
Lab File: BF115602.D
Acq: 16 Jul 2019 17:30

Tgt Ion:244 Resp: 1637160
Ion Ratio Lower Upper
244 100
212 6.9 6.0 9.0
122 10.0 8.6 12.8

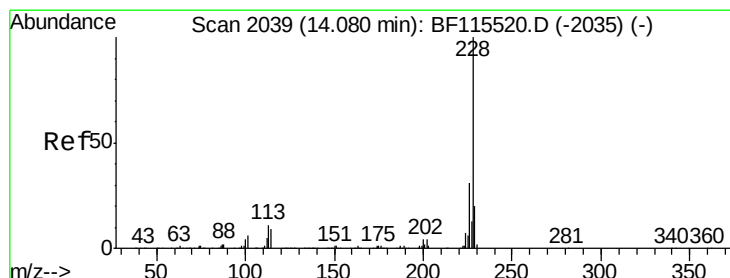
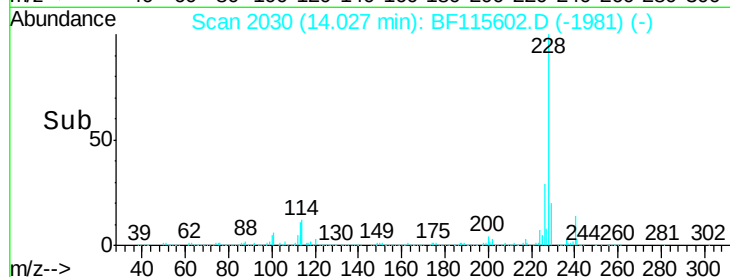
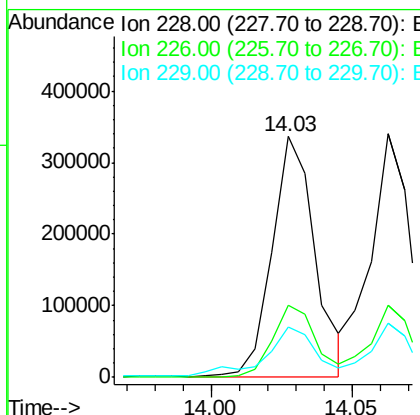
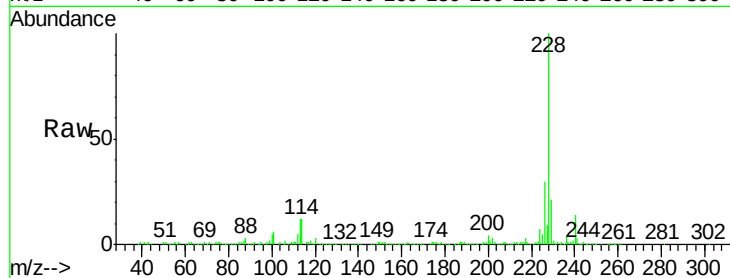




#81
Benzo(a)anthracene
Concen: 14.038 ng
RT: 14.03 min Scan# 2030
Delta R.T. -0.01 min
Lab File: BF115602.D
Acq: 16 Jul 2019 17:30

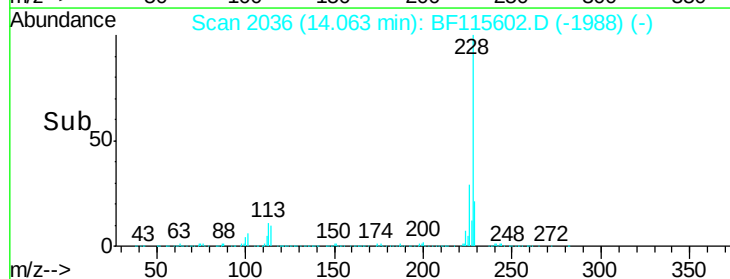
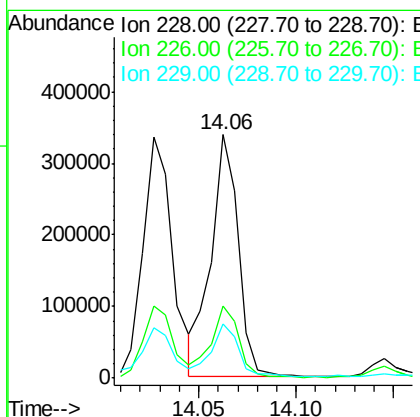
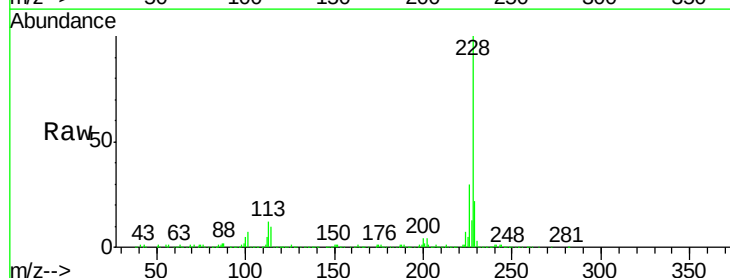
Instrument :
BNA_F
ClientSampleId :

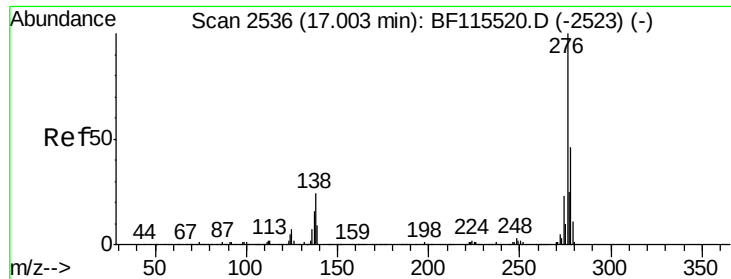
Tot Ion	Ratio	Lower	Upper
228	100		
226	29.9	23.4	35.0
229	21.1	17.2	25.8



#83
Chrysene
Concen: 13.159 ng
RT: 14.06 min Scan# 2036
Delta R.T. -0.02 min
Lab File: BF115602.D
Acq: 16 Jul 2019 17:30

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.7	25.7	38.5
229	22.3	16.6	25.0

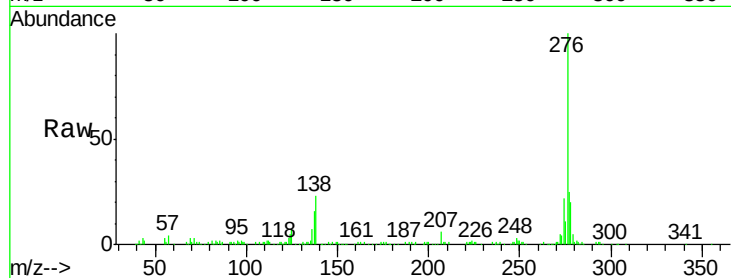




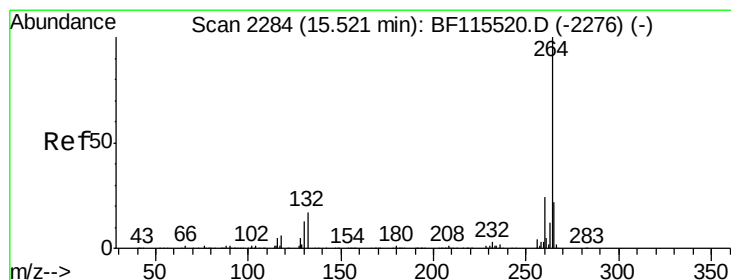
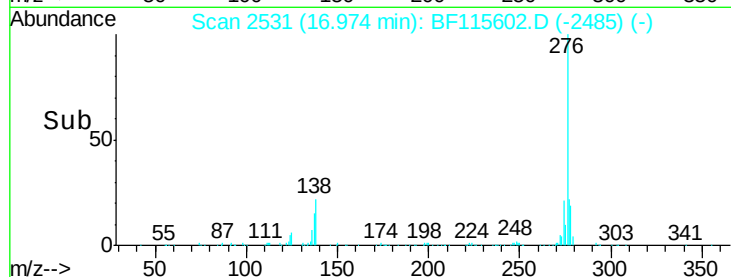
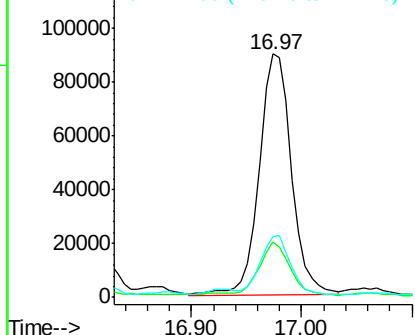
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 8.610 ng
 RT: 16.97 min Scan# 2531
 Delta R.T. -0.03 min
 Lab File: BF115602.D
 Acq: 16 Jul 2019 17:30

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.5	20.2	30.2
277	23.0	20.4	30.6

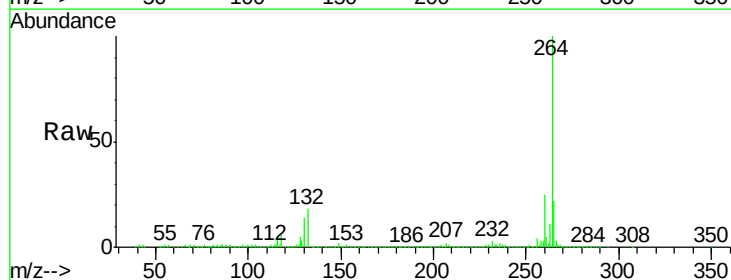


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

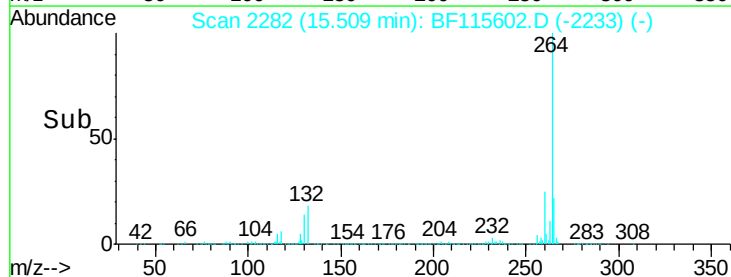
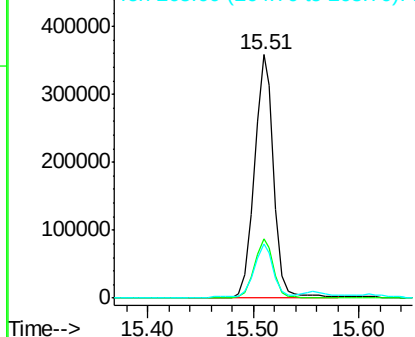


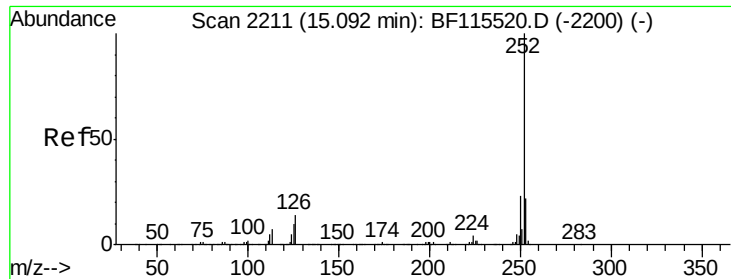
#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.51 min Scan# 2282
 Delta R.T. -0.01 min
 Lab File: BF115602.D
 Acq: 16 Jul 2019 17:30

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.8	29.8
265	22.4	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

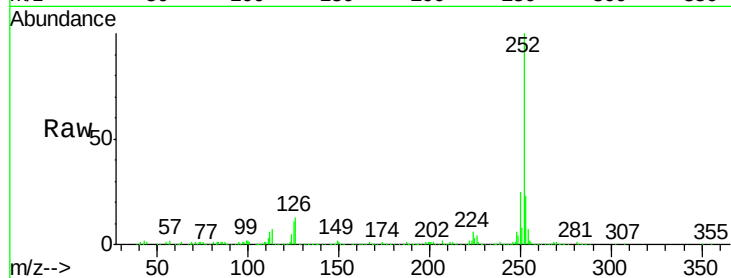




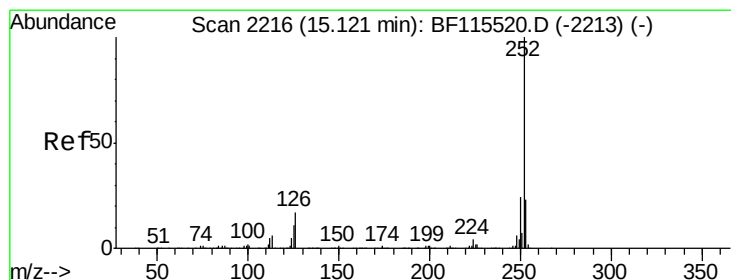
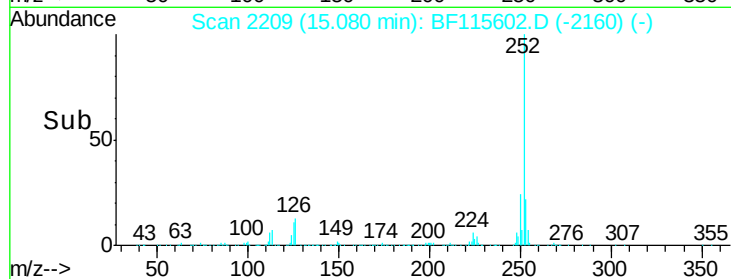
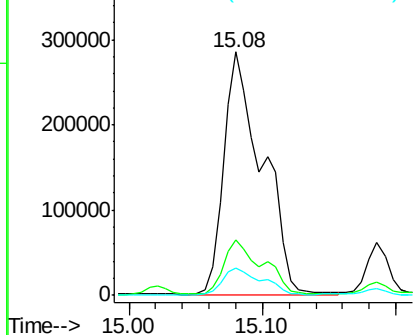
#88
Benzo(b)fluoranthene
Concen: 19.318 ng
RT: 15.08 min Scan# 2209
Delta R.T. -0.01 min
Lab File: BF115602.D
Acq: 16 Jul 2019 17:30

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.1	27.1
125	11.0	9.0	13.4

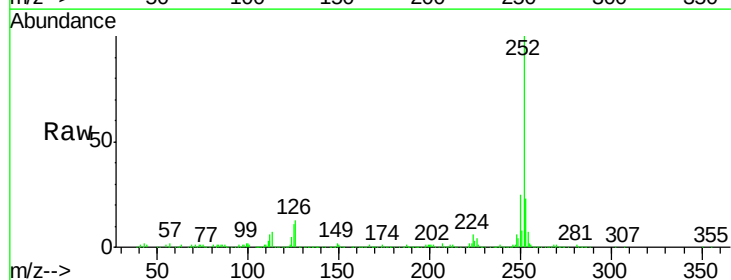


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

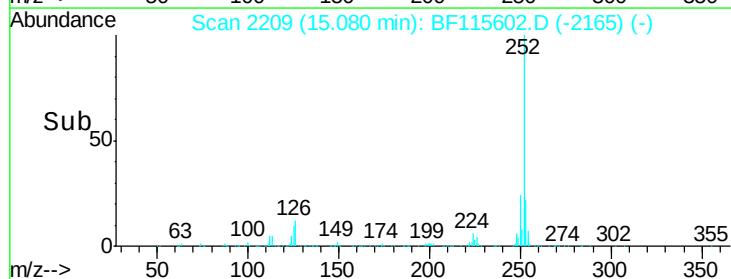
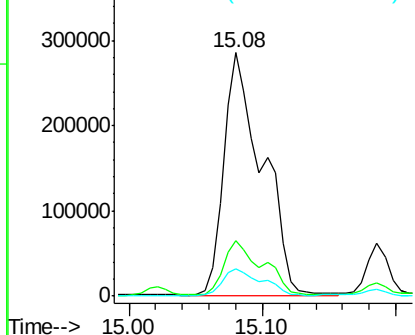


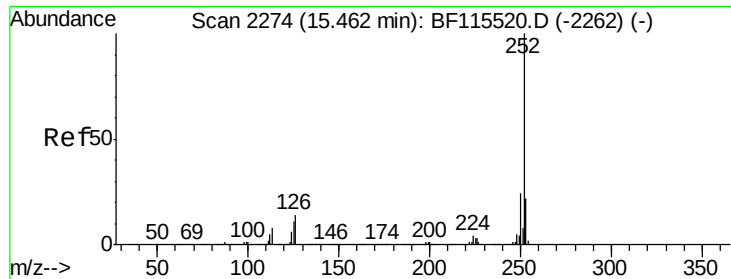
#89
Benzo(k)fluoranthene
Concen: 21.668 ng
RT: 15.08 min Scan# 2209
Delta R.T. -0.04 min
Lab File: BF115602.D
Acq: 16 Jul 2019 17:30

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.6	28.0
125	11.0	9.0	13.6



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

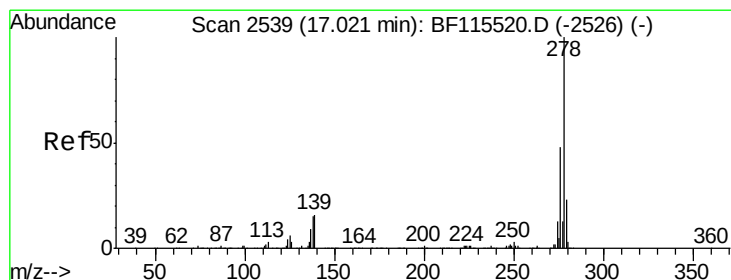
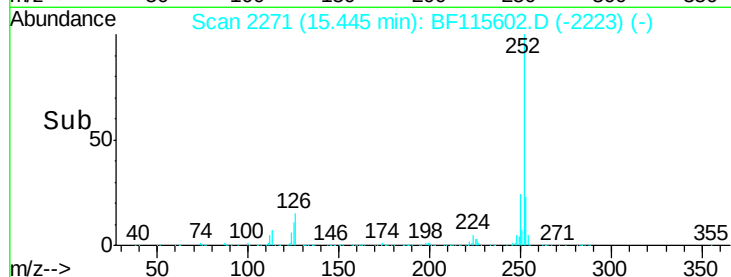
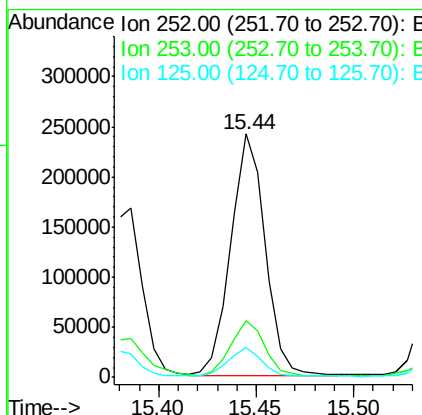
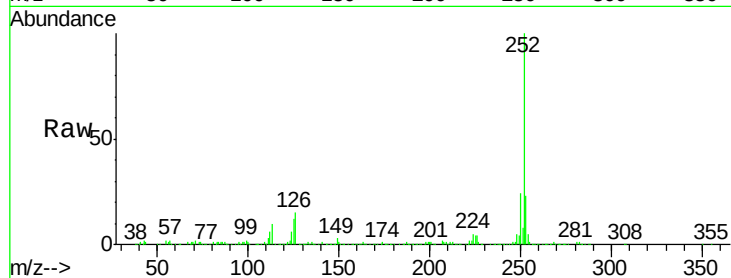




#90
Benzo(a)pyrene
Concen: 11.519 ng
RT: 15.44 min Scan# 2271
Delta R.T. -0.02 min
Lab File: BF115602.D
Acq: 16 Jul 2019 17:30

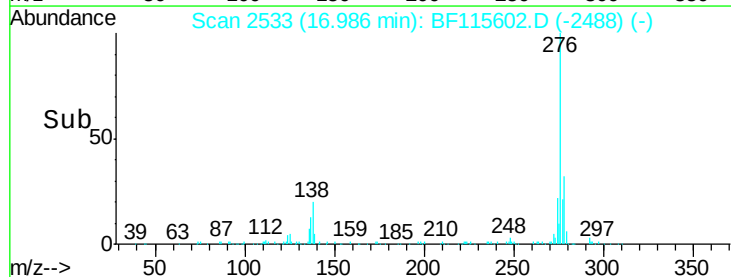
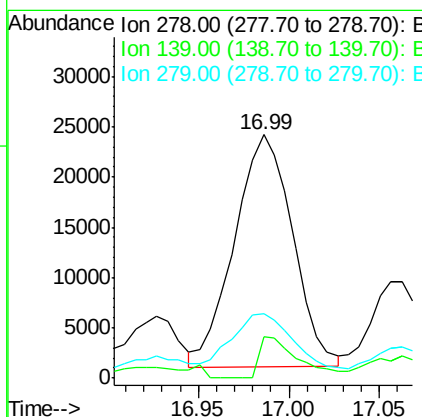
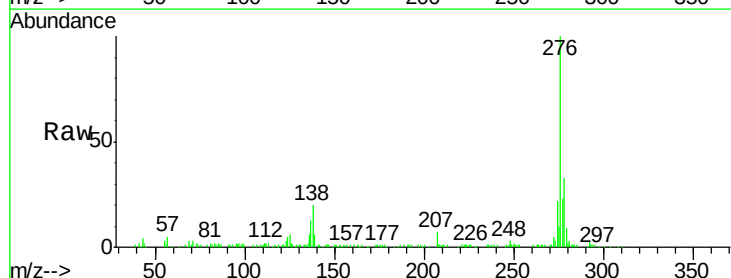
Instrument :
BNA_F
ClientSampleId :

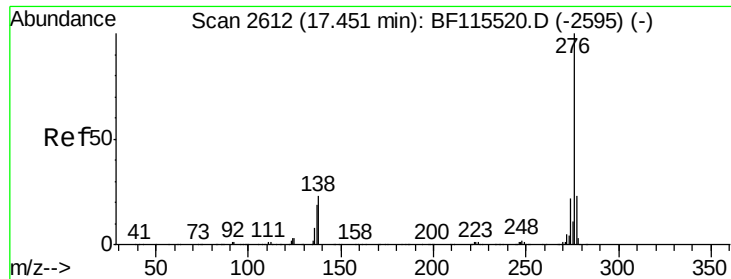
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.8	26.6
125	12.1	9.1	13.7



#91
Dibenzo(a,h)anthracene
Concen: 2.313 ng
RT: 16.99 min Scan# 2533
Delta R.T. -0.04 min
Lab File: BF115602.D
Acq: 16 Jul 2019 17:30

Tgt Ion	Ratio	Lower	Upper
278	100		
139	17.2	13.1	19.7
279	26.2	19.6	29.4

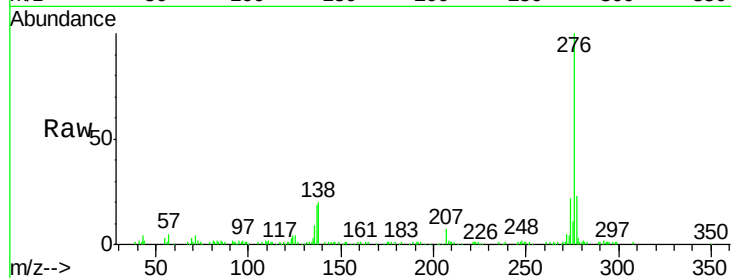




#92
 Benzo(a,h,i)perylene
 Concen: 7.248 ng
 RT: 17.42 min Scan# 2607
 Delta R.T. -0.03 min
 Lab File: BF115602.D
 Acq: 16 Jul 2019 17:30

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	22.6	19.0	28.4
138	20.4	17.2	25.8



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

