

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041519\
 Data File : BF113775.D
 Acq On : 15 Apr 2019 21:03
 Operator : JU/SJ
 Sample : K2397-03
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 15 23:09:29 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF040319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 04 04:05:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.67	152	115349	20.00	ng	-0.02
21) Naphthalene-d8	7.95	136	428201	20.00	ng	-0.02
39) Acenaphthene-d10	9.70	164	203338	20.00	ng	-0.02
64) Phenanthrene-d10	11.19	188	377523	20.00	ng	-0.02
76) Chrysene-d12	13.83	240	258335	20.00	ng	-0.02
87) Perylene-d12	15.24	264	338307	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.29	112	742570	109.78	ng	-0.01
7) Phenol-d6	6.33	99	983508	117.97	ng	-0.01
23) Nitrobenzene-d5	7.24	82	584003	79.89	ng	-0.02
42) 2,4,6-Tribromophenol	10.49	330	256244	104.91	ng	-0.02
45) 2-Fluorobiphenyl	9.03	172	1050593	83.18	ng	-0.02
79) Terphenyl-d14	12.77	244	878249	69.22	ng	-0.02

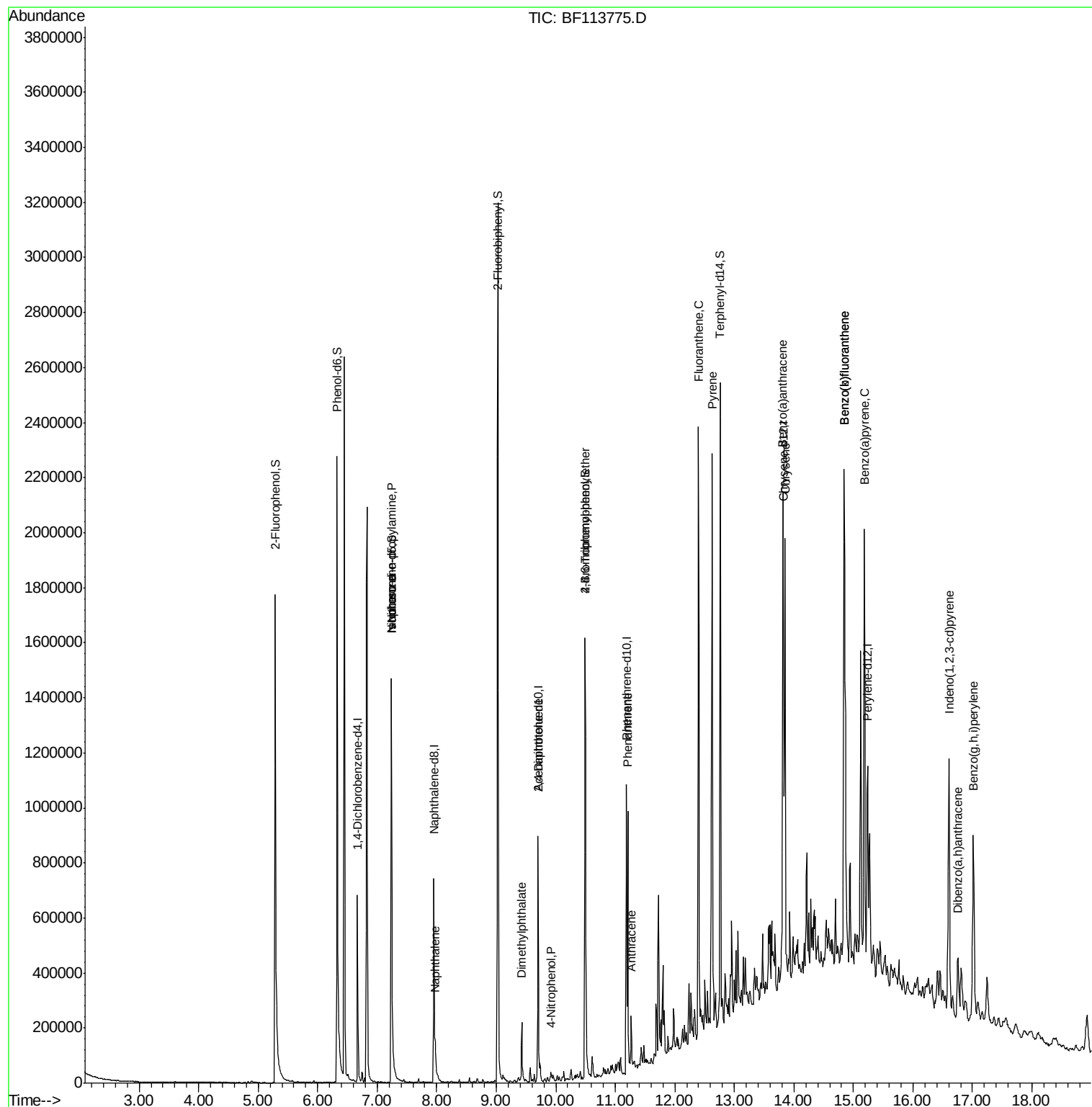
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.24	70	74045	14.403	ng	# 77
25) Isophorone	7.24	82	584000	41.471	ng	# 64
31) Naphthalene	7.97	128	47413	2.285	ng	99
50) Dimethylphthalate	9.43	163	102670	6.850	ng	99
56) 4-Nitrophenol	9.92	139	4879	2.094	ng	# 7
57) 2,4-Dinitrotoluene	9.70	165	26576	6.651	ng	# 23
67) 4-Bromophenyl-phenylether	10.49	248	14043	3.317	ng	# 1
71) Phenanthrene	11.21	178	366408	19.532	ng	99
72) Anthracene	11.27	178	109175	5.720	ng	98
75) Fluoranthene	12.40	202	886381	44.094	ng	99
78) Pyrene	12.63	202	878497	44.693	ng	100
81) Benzo(a)anthracene	13.82	228	688703	46.215	ng	99
83) Chrysene	13.85	228	591488	39.154	ng	98
86) Indeno(1,2,3-cd)pyrene	16.61	276	587216	42.101	ng	96
88) Benzo(b)fluoranthene	14.84	252	1355515	65.457	ng	98
89) Benzo(k)fluoranthene	14.84	252	1355515	72.934	ng	# 97
90) Benzo(a)pyrene	15.19	252	800852	43.521	ng	98
91) Dibenzo(a,h)anthracene	16.76	278	136273	7.919	ng	97
92) Benzo(a,h,i)perylene	17.02	276	570366	32.473	ng	97

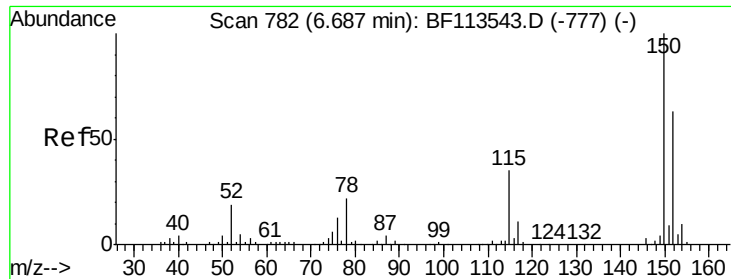
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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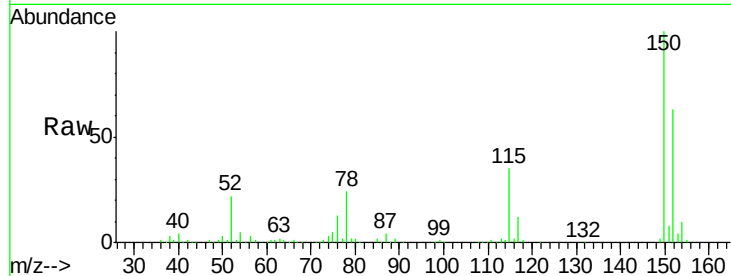




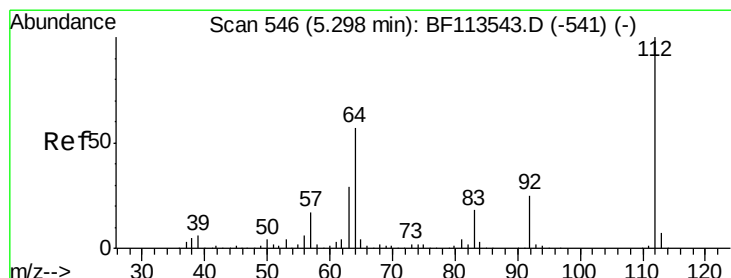
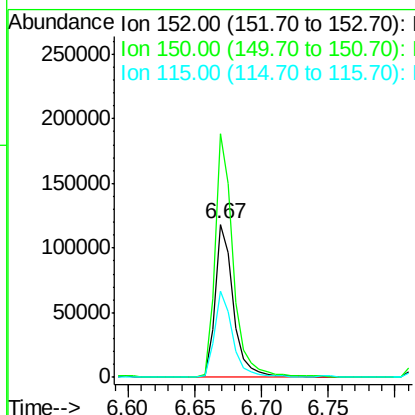
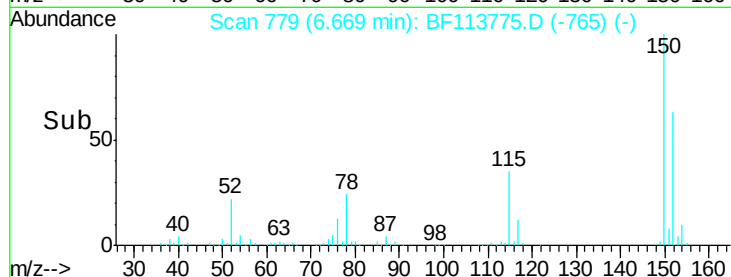
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.67 min Scan# 779
 Delta R.T. -0.02 min
 Lab File: BF113775.D
 Acq: 15 Apr 2019 21:03

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:152 Resp: 115349
 Ion Ratio Lower Upper
 152 100
 150 159.0 124.7 187.1
 115 56.1 46.0 69.0

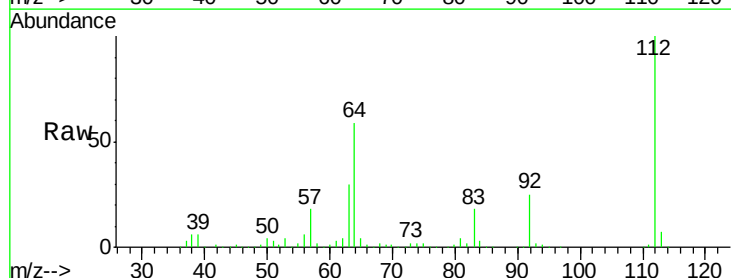


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

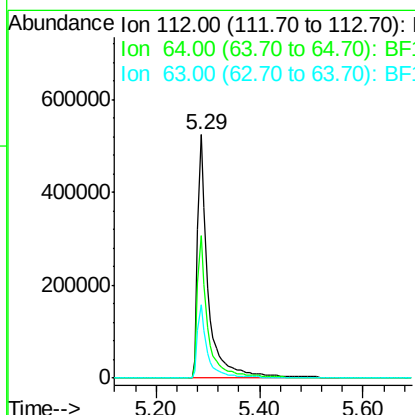
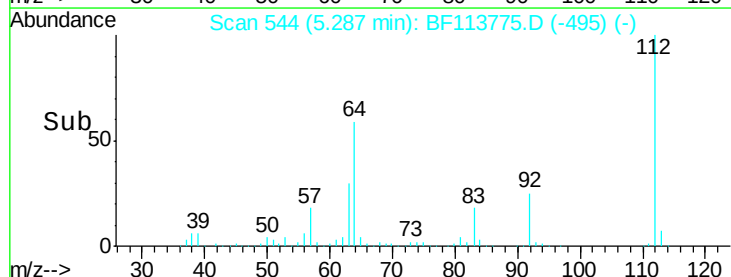


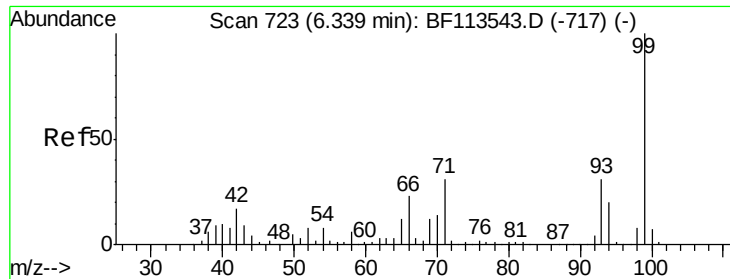
#5
 2-Fluorophenol
 Concen: 109.776 ng
 RT: 5.29 min Scan# 544
 Delta R.T. -0.01 min
 Lab File: BF113775.D
 Acq: 15 Apr 2019 21:03

Tgt Ion:112 Resp: 742570
 Ion Ratio Lower Upper
 112 100
 64 58.6 49.2 73.8
 63 30.0 24.9 37.3



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: 117.966 ng

RT: 6.33 min Scan# 721

Delta R.T. -0.01 min

Lab File: BF113775.D

Acq: 15 Apr 2019 21:03

Instrument :

BNA_F

ClientSampleId :

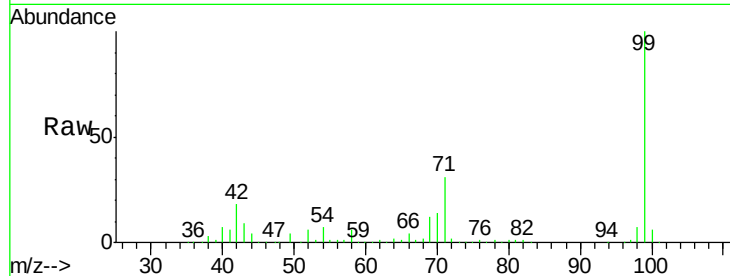
Tot Ion: 99 Resp: 983508

Ion Ratio Lower Upper

99 100

42 17.9 14.8 22.2

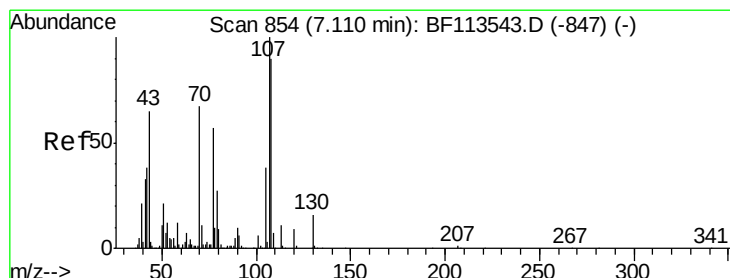
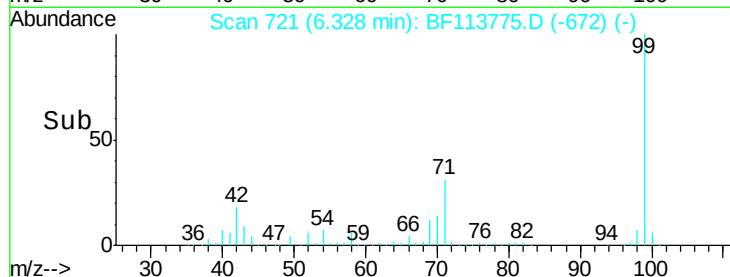
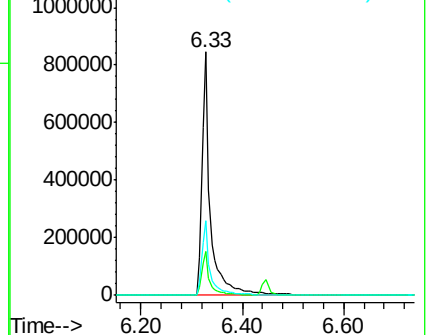
71 30.9 24.9 37.3



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 14.403 ng

RT: 7.24 min Scan# 876

Delta R.T. 0.13 min

Lab File: BF113775.D

Acq: 15 Apr 2019 21:03

Tgt Ion: 70 Resp: 74045

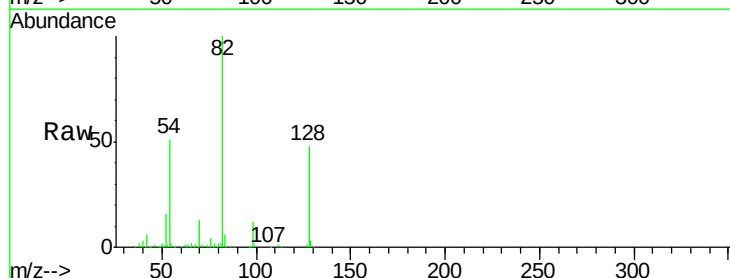
Ion Ratio Lower Upper

70 100

42 48.6 48.4 72.6

101 0.0 7.8 11.8#

130 2.4 18.2 27.4#

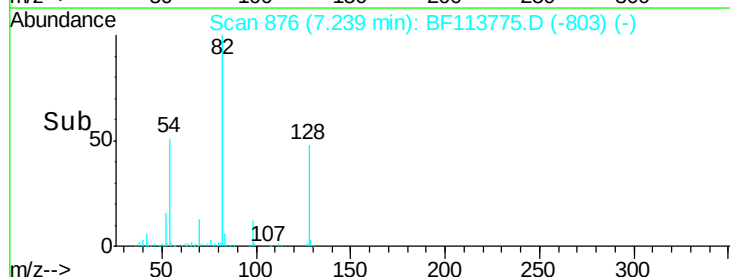
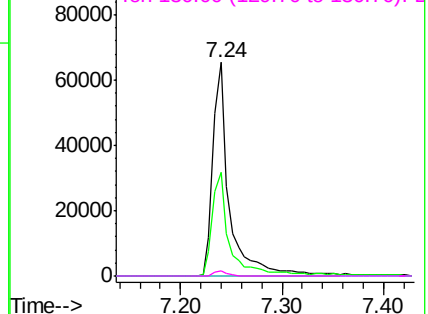


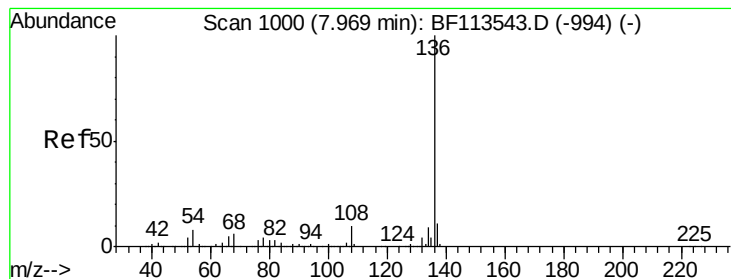
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.95 min Scan# 997

Delta R.T. -0.02 min

Lab File: BF113775.D

Acq: 15 Apr 2019 21:03

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 428201

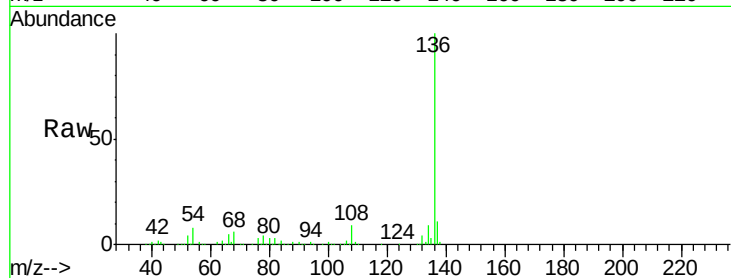
Ion Ratio Lower Upper

136 100

137 10.7 8.9 13.3

54 8.0 7.0 10.6

68 6.1 4.8 7.2

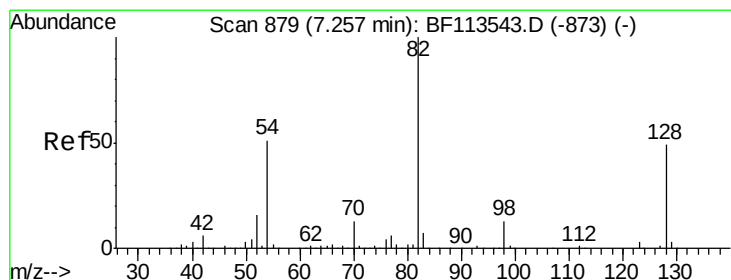
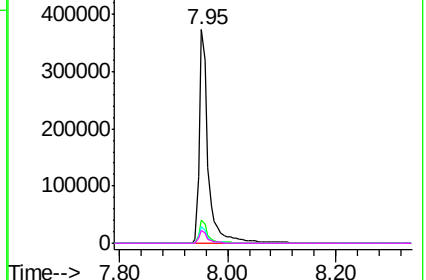
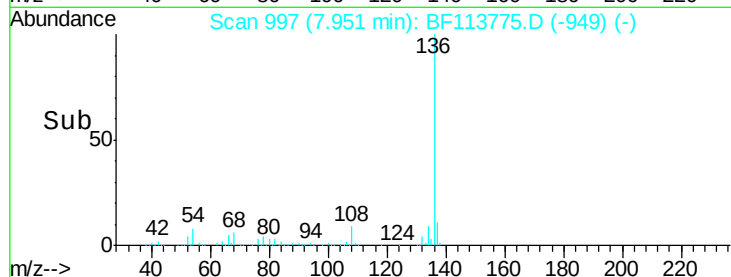


Abundance Ion 136.00 (135.70 to 136.70): E

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: 79.888 ng

RT: 7.24 min Scan# 876

Delta R.T. -0.02 min

Lab File: BF113775.D

Acq: 15 Apr 2019 21:03

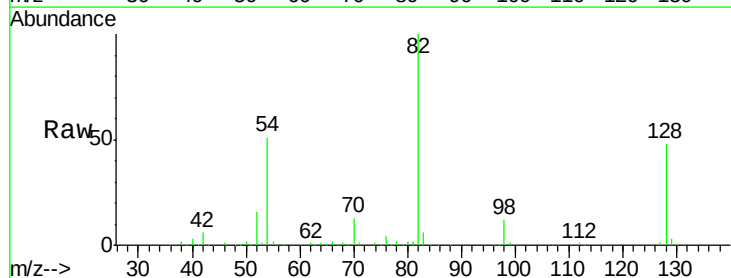
Tgt Ion: 82 Resp: 584003

Ion Ratio Lower Upper

82 100

128 47.9 36.5 54.7

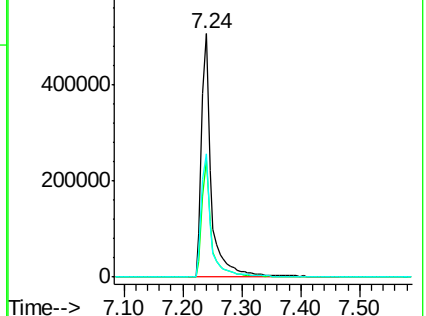
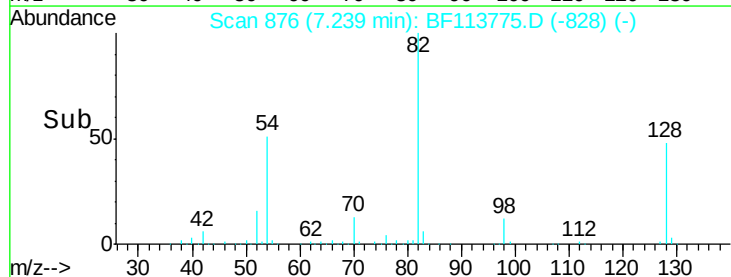
54 50.9 42.2 63.2

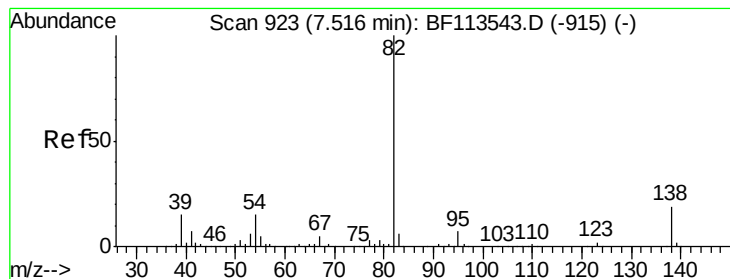


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 41.471 ng

RT: 7.24 min Scan# 876

Delta R.T. -0.28 min

Lab File: BF113775.D

Acq: 15 Apr 2019 21:03

Instrument :

BNA_F

ClientSampleId :

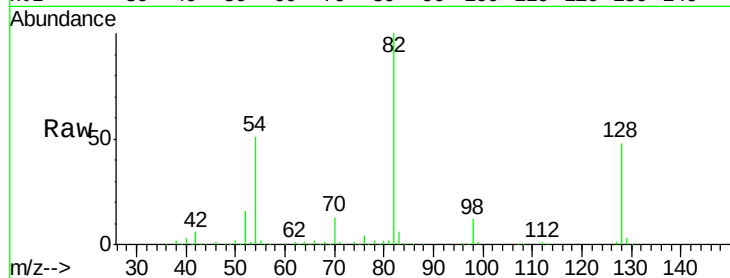
Tot Ion: 82 Resp: 584000

Ion Ratio Lower Upper

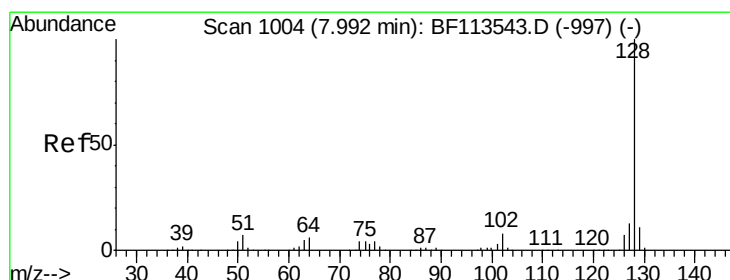
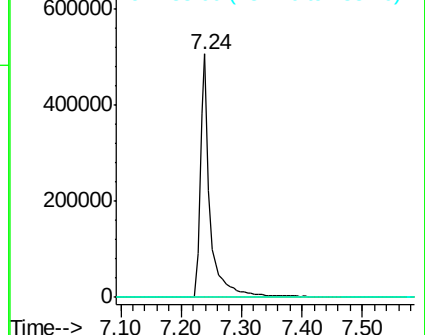
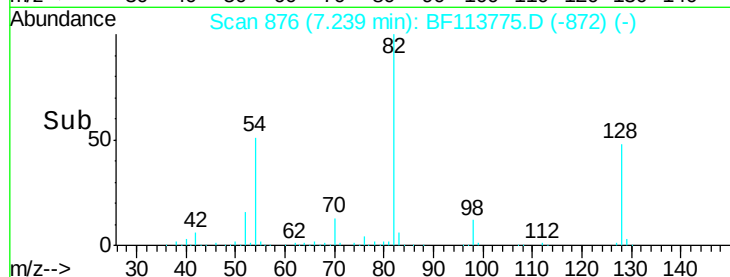
82 100

95 0.0 5.5 8.3#

138 0.0 15.2 22.8#



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



#31

Naphthalene

Concen: 2.285 ng

RT: 7.97 min Scan# 1001

Delta R.T. -0.02 min

Lab File: BF113775.D

Acq: 15 Apr 2019 21:03

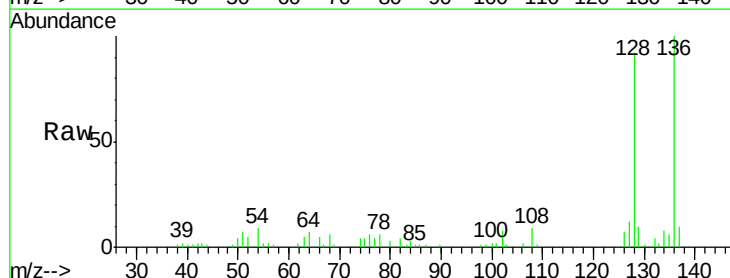
Tgt Ion: 128 Resp: 47413

Ion Ratio Lower Upper

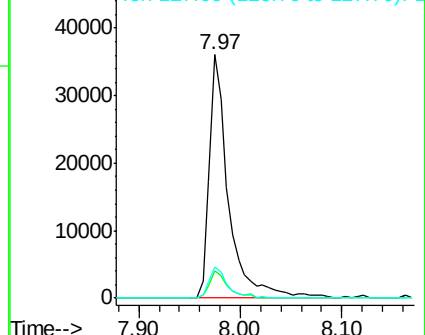
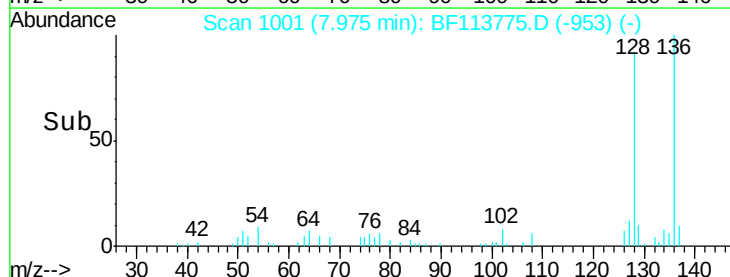
128 100

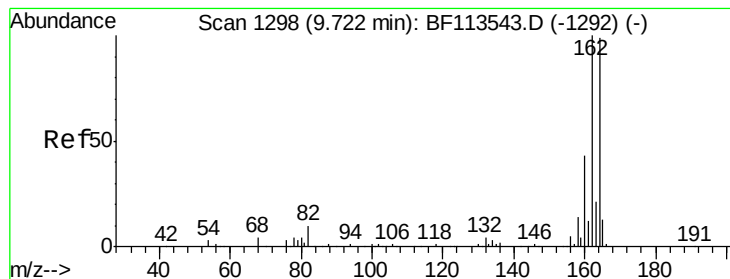
129 11.3 9.3 13.9

127 12.8 10.9 16.3



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





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.70 min Scan# 1294

Delta R.T. -0.02 min

Lab File: BF113775.D

Acq: 15 Apr 2019 21:03

Instrument :

BNA_F

ClientSampled :

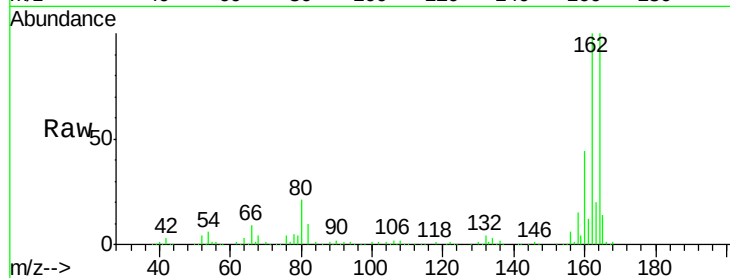
Tot Ion:164 Resp: 203338

Ion Ratio Lower Upper

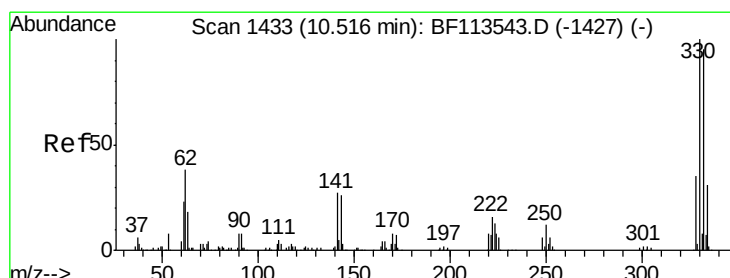
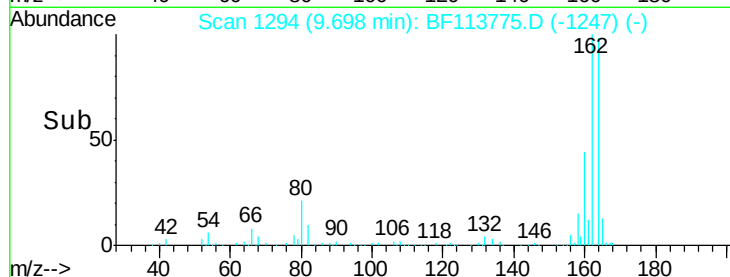
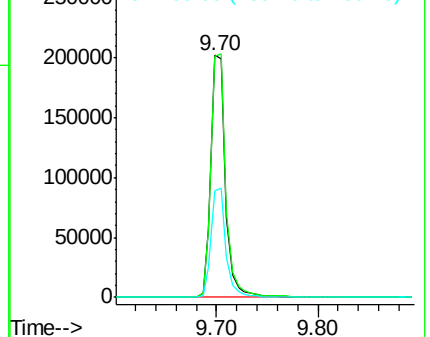
164 100

162 99.7 81.8 122.6

160 44.2 36.4 54.6



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: 104.907 ng

RT: 10.49 min Scan# 1429

Delta R.T. -0.02 min

Lab File: BF113775.D

Acq: 15 Apr 2019 21:03

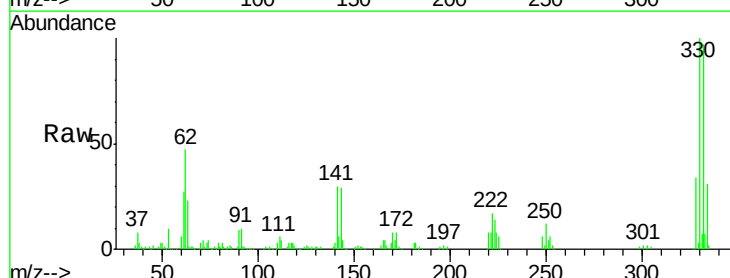
Tgt Ion:330 Resp: 256244

Ion Ratio Lower Upper

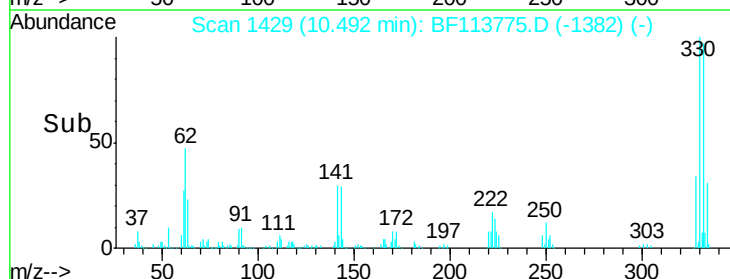
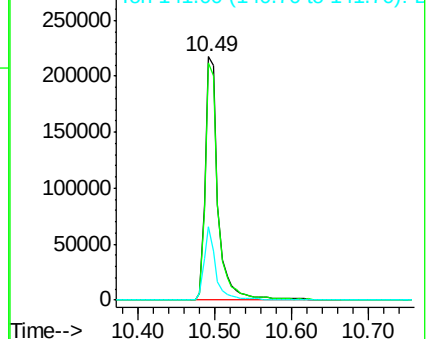
330 100

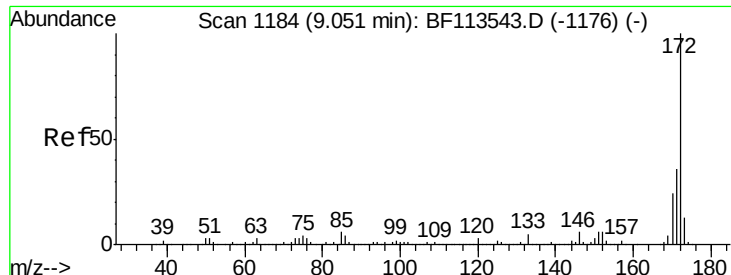
332 96.6 77.8 116.6

141 27.6 22.7 34.1



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

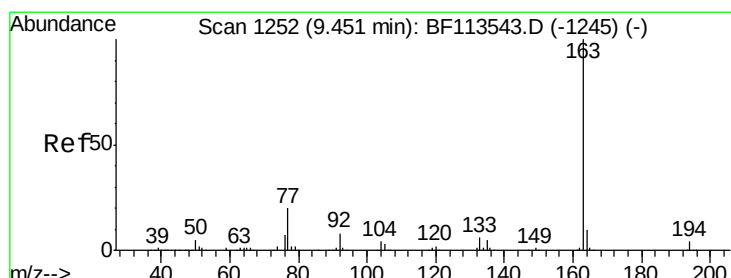
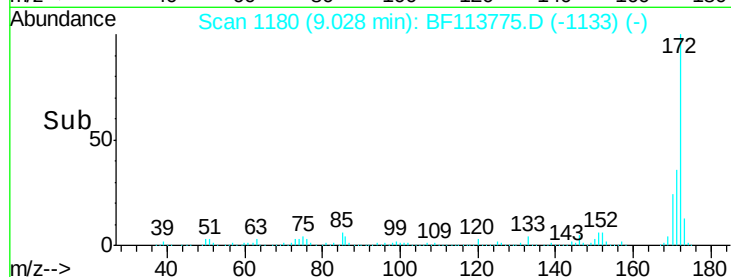
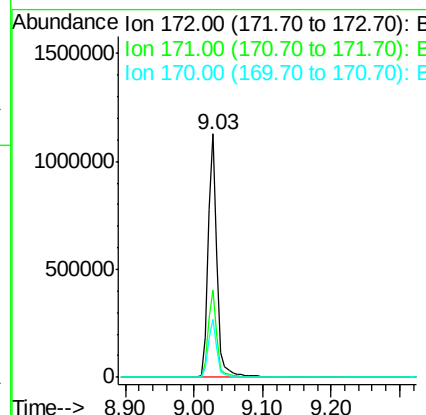
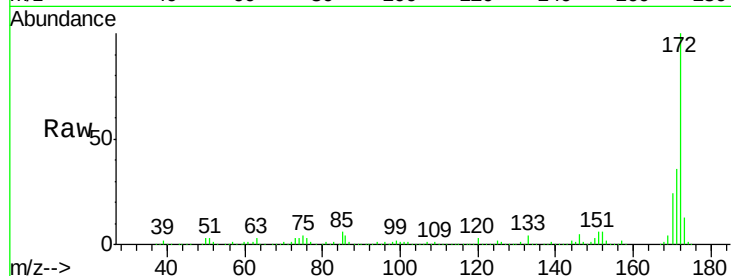




#45
2-Fluorobiphenyl
Concen: 83.179 ng
RT: 9.03 min Scan# 1180
Delta R.T. -0.02 min
Lab File: BF113775.D
Acq: 15 Apr 2019 21:03

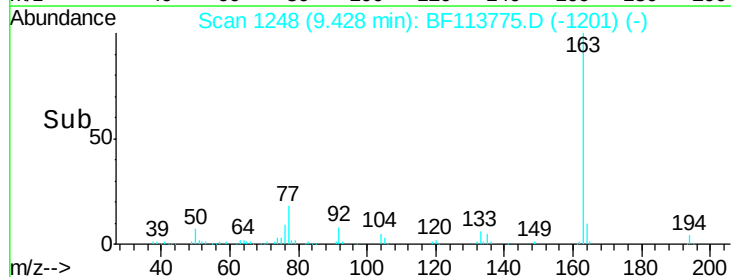
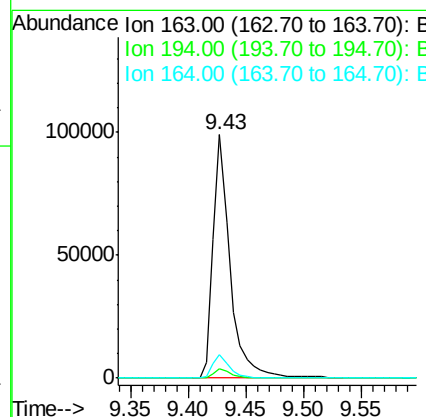
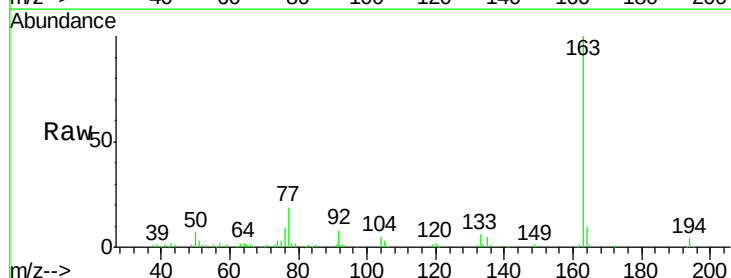
Instrument :
BNA_F
ClientSampled :

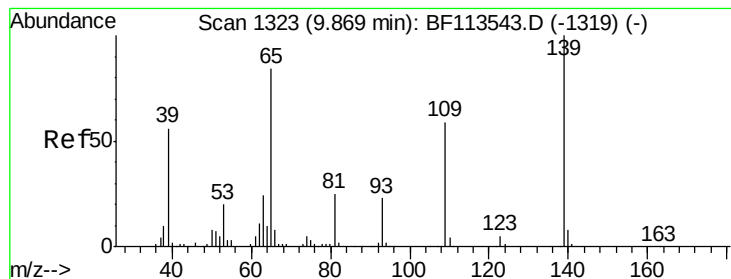
Tot Ion:172 Resp: 1050593
Ion Ratio Lower Upper
172 100
171 35.8 29.0 43.6
170 23.8 19.5 29.3



#50
Dimethylphthalate
Concen: 6.850 ng
RT: 9.43 min Scan# 1248
Delta R.T. -0.02 min
Lab File: BF113775.D
Acq: 15 Apr 2019 21:03

Tgt Ion:163 Resp: 102670
Ion Ratio Lower Upper
163 100
194 4.0 3.0 4.6
164 9.6 8.1 12.1





#56

4-Nitrophenol

Concen: 2.094 ng

RT: 9.92 min Scan# 1332

Delta R.T. 0.05 min

Lab File: BF113775.D

Acq: 15 Apr 2019 21:03

Instrument :

BNA_F

ClientSampled :

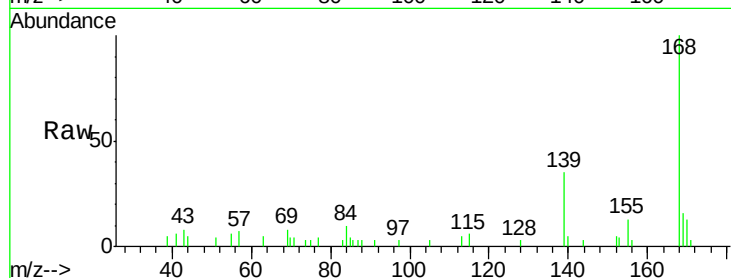
Tot Ion:139 Resp: 4879

Ion Ratio Lower Upper

139 100

109 0.0 46.9 86.9#

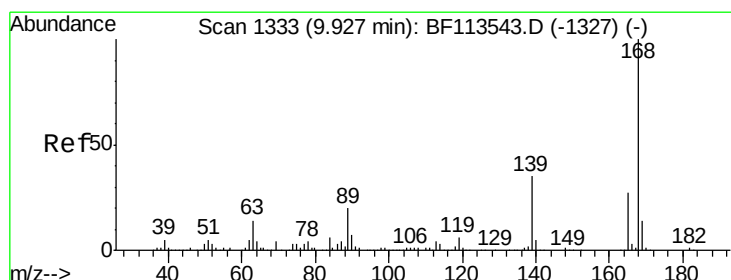
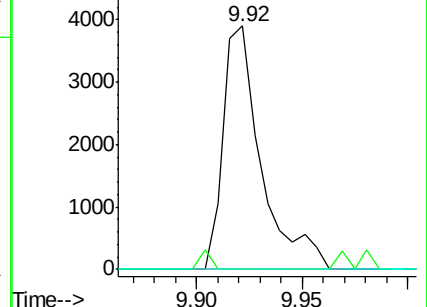
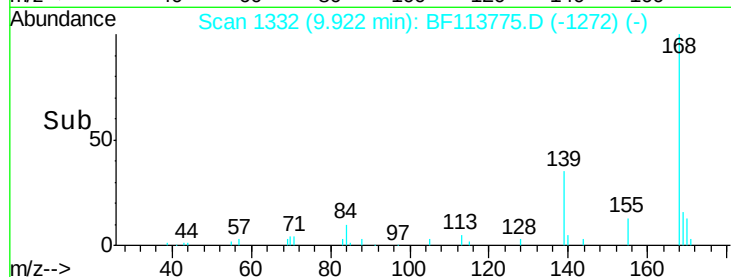
65 0.0 77.2 117.2#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1



#57

2,4-Dinitrotoluene

Concen: 6.651 ng

RT: 9.70 min Scan# 1294

Delta R.T. -0.23 min

Lab File: BF113775.D

Acq: 15 Apr 2019 21:03

Tgt Ion:165 Resp: 26576

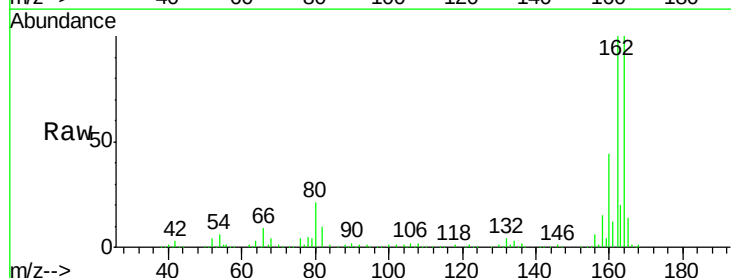
Ion Ratio Lower Upper

165 100

63 1.7 37.5 56.3#

89 1.3 57.4 86.2#

182 0.0 2.0 3.0#

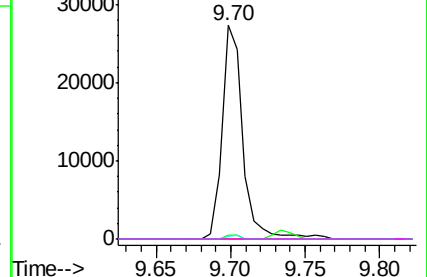
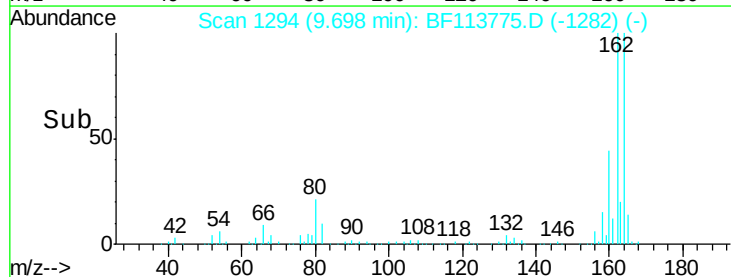


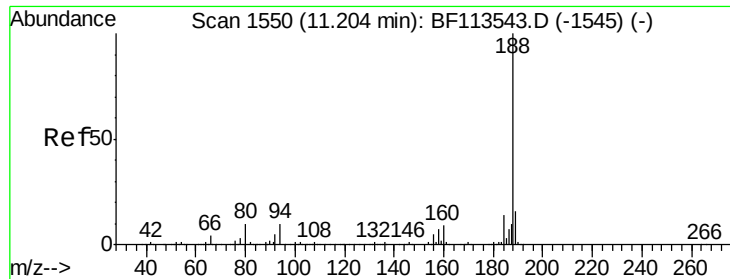
Abundance Ion 165.00 (164.70 to 165.70): E

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

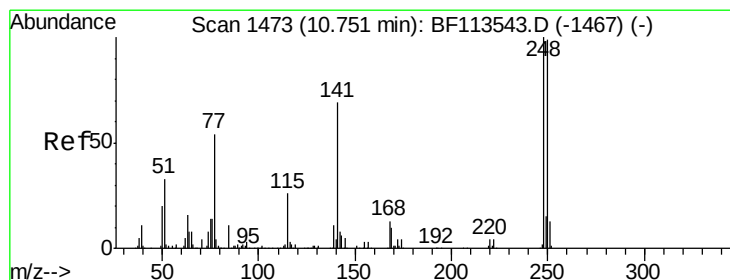
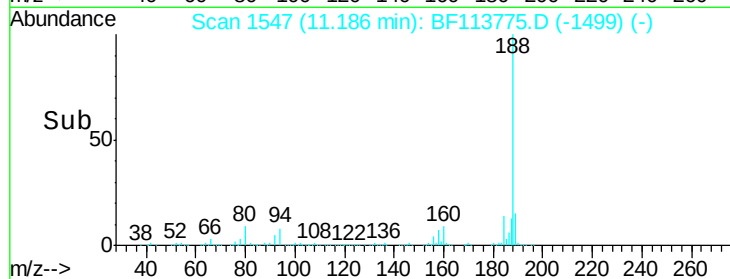
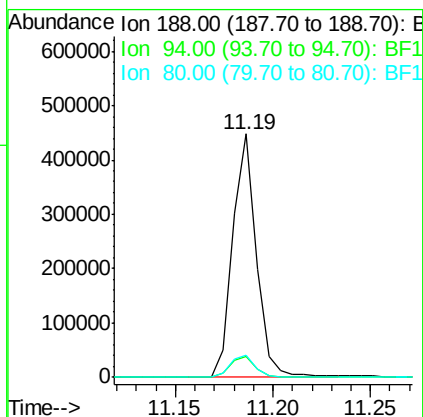
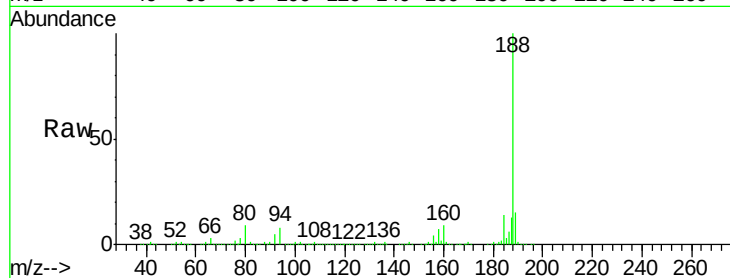




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.19 min Scan# 1547
Delta R.T. -0.02 min
Lab File: BF113775.D
Acq: 15 Apr 2019 21:03

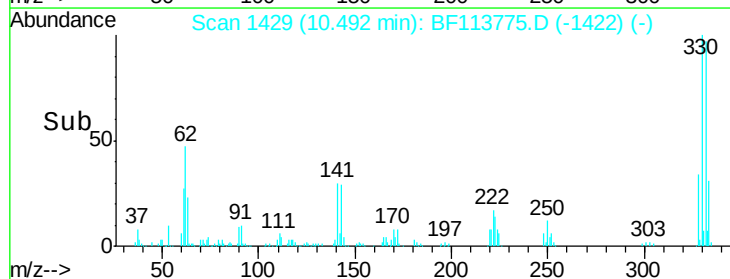
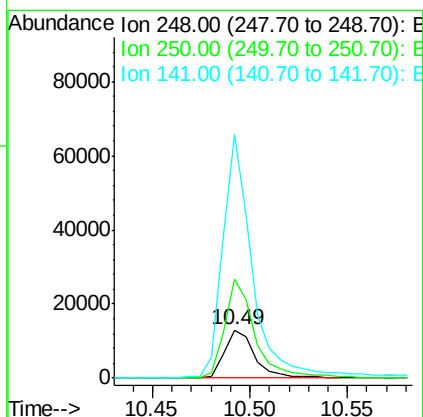
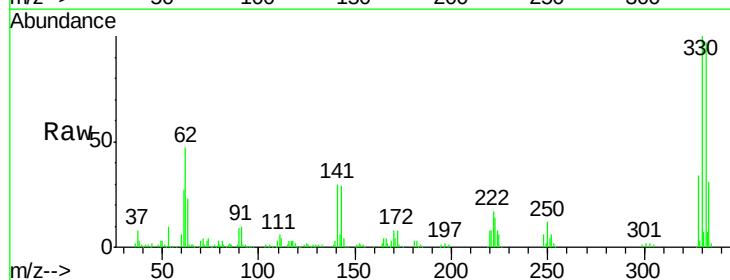
Instrument :
BNA_F
ClientSampleId :

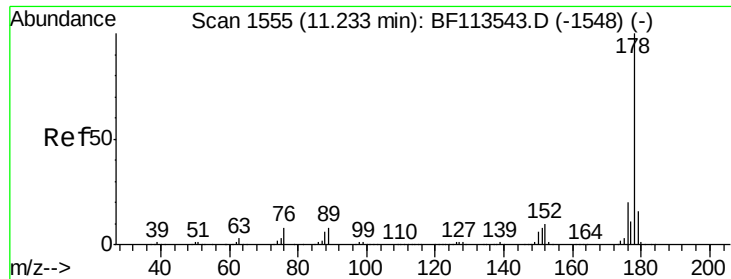
Tot Ion:188 Resp: 377523
Ion Ratio Lower Upper
188 100
94 8.4 7.0 10.6
80 9.0 7.7 11.5



#67
4-Bromophenyl-phenylether
Concen: 3.317 ng
RT: 10.49 min Scan# 1429
Delta R.T. -0.26 min
Lab File: BF113775.D
Acq: 15 Apr 2019 21:03

Tgt Ion:248 Resp: 14043
Ion Ratio Lower Upper
248 100
250 205.8 78.3 117.5#
141 503.5 56.2 84.4#

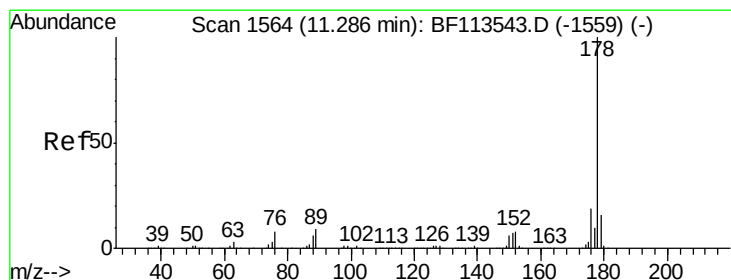
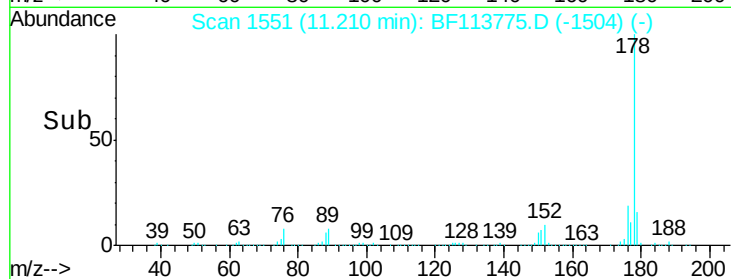
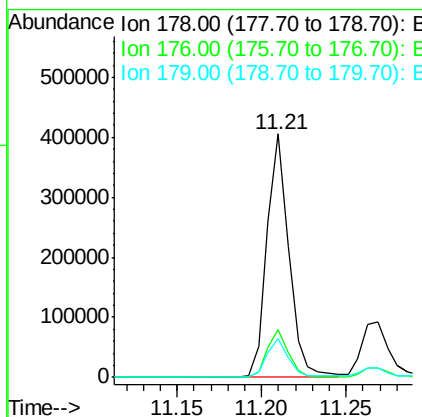
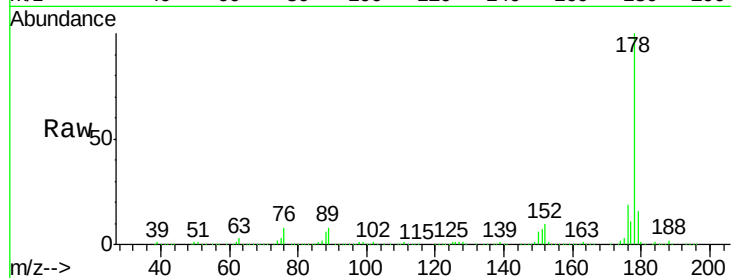




#71
Phenanthrene
Concen: 19.532 ng
RT: 11.21 min Scan# 1551
Delta R.T. -0.02 min
Lab File: BF113775.D
Acq: 15 Apr 2019 21:03

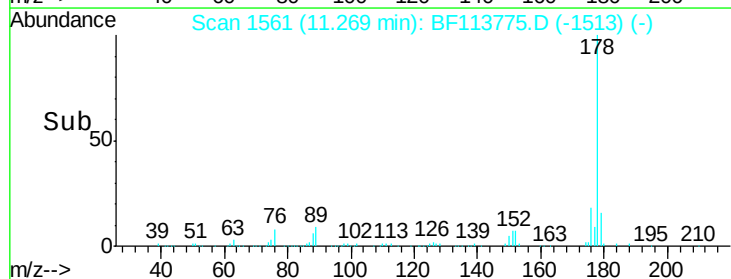
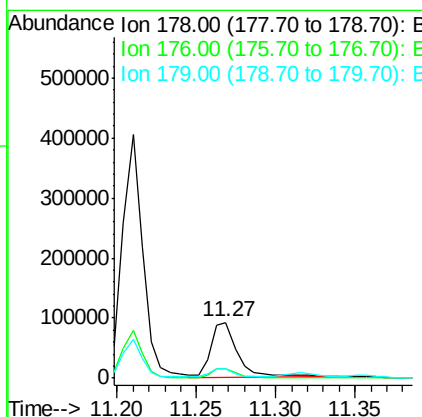
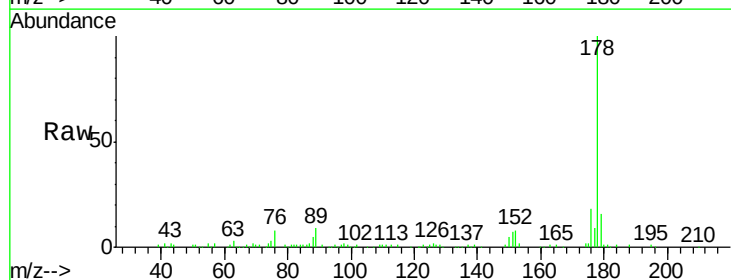
Instrument :
BNA_F
ClientSampleId :

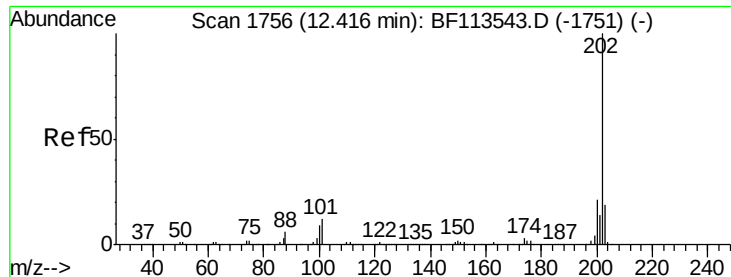
Tot Ion:178 Resp: 366408
Ion Ratio Lower Upper
178 100
176 19.4 16.2 24.2
179 15.9 12.7 19.1



#72
Anthracene
Concen: 5.720 ng
RT: 11.27 min Scan# 1561
Delta R.T. -0.02 min
Lab File: BF113775.D
Acq: 15 Apr 2019 21:03

Tgt Ion:178 Resp: 109175
Ion Ratio Lower Upper
178 100
176 17.8 15.4 23.2
179 16.4 12.8 19.2





#75

Fluoranthene

Concen: 44.094 ng

RT: 12.40 min Scan# 1753

Delta R.T. -0.02 min

Lab File: BF113775.D

Acq: 15 Apr 2019 21:03

Instrument :

BNA_F

ClientSampleId :

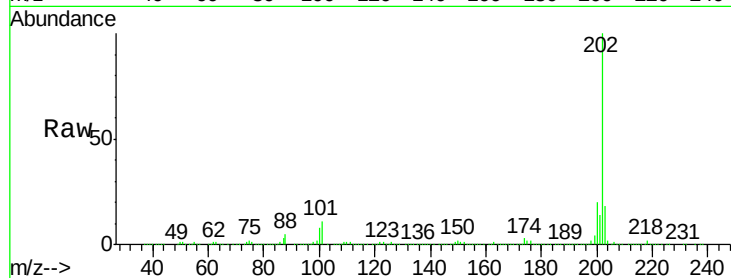
Tot Ion:202 Resp: 886381

Ion Ratio Lower Upper

202 100

101 10.9 0.0 31.4

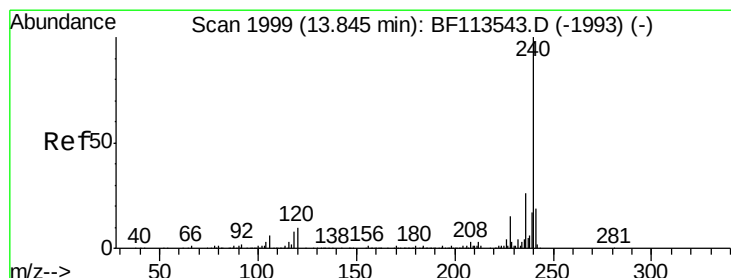
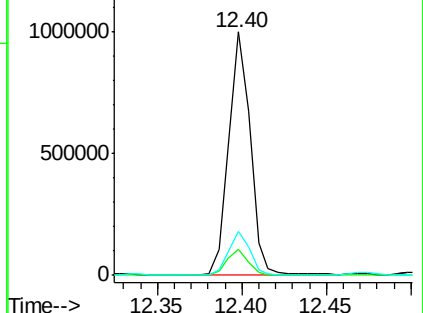
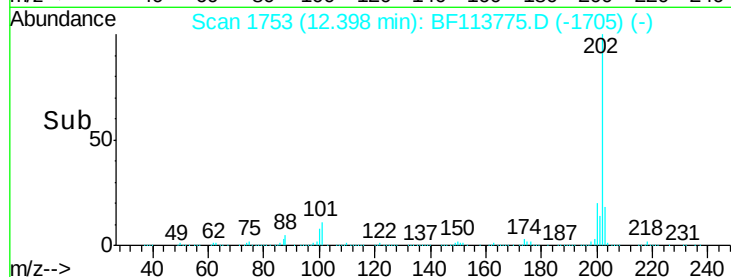
203 18.3 0.0 38.0



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.83 min Scan# 1996

Delta R.T. -0.02 min

Lab File: BF113775.D

Acq: 15 Apr 2019 21:03

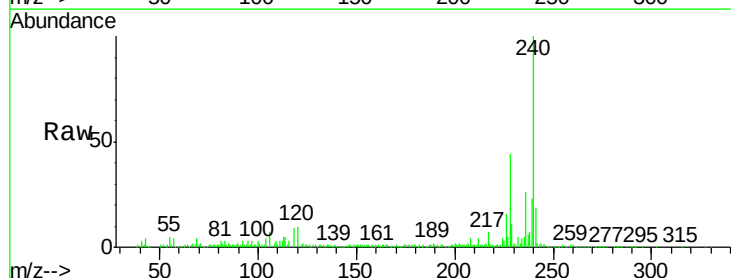
Tgt Ion:240 Resp: 258335

Ion Ratio Lower Upper

240 100

120 10.0 8.8 13.2

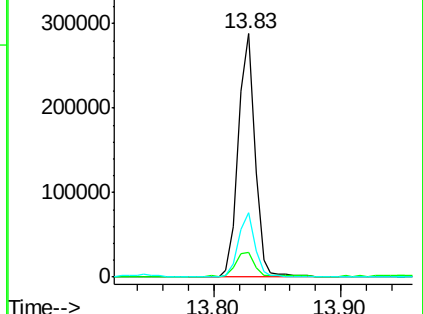
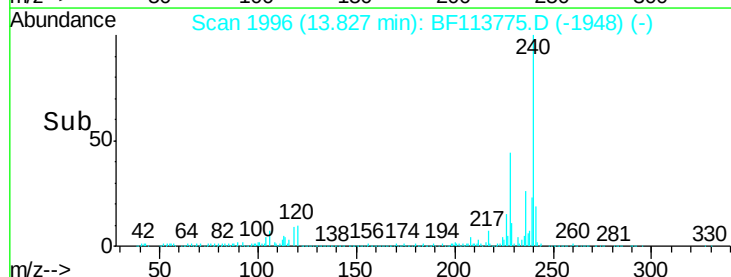
236 26.2 20.9 31.3

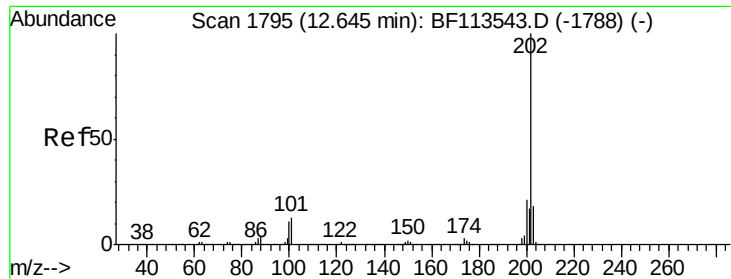


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

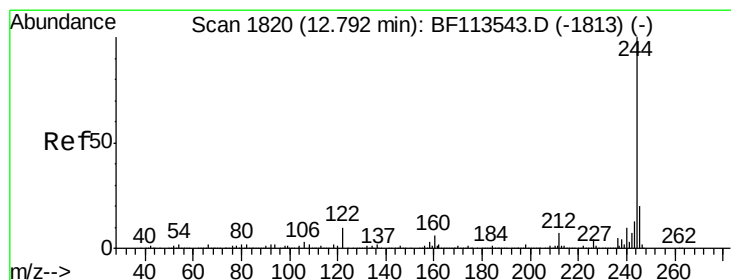
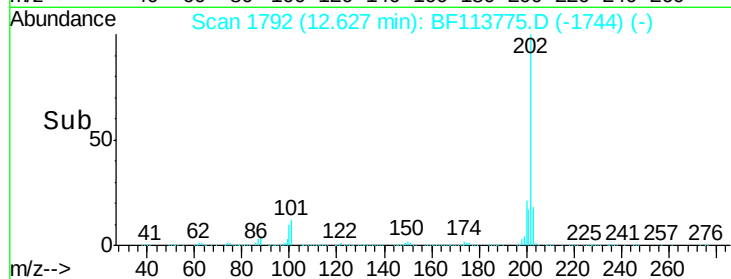
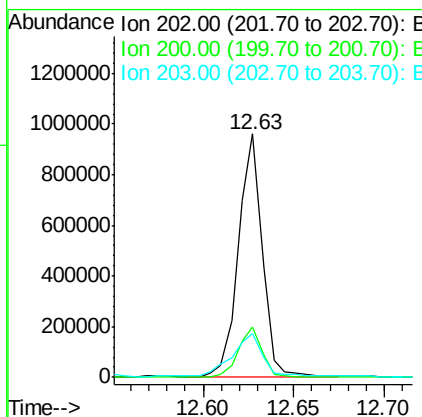
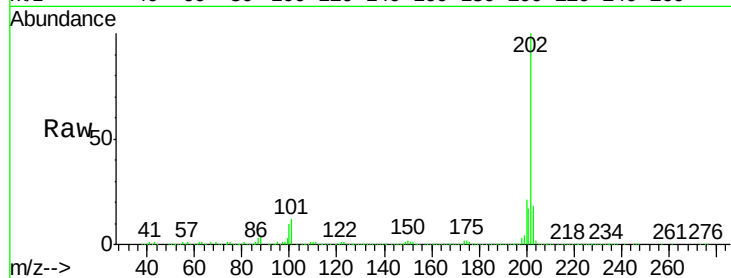




#78
Pvrene
Concen: 44.693 ng
RT: 12.63 min Scan# 1792
Delta R.T. -0.02 min
Lab File: BF113775.D
Acq: 15 Apr 2019 21:03

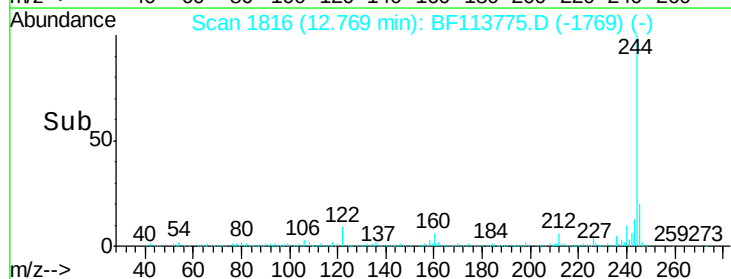
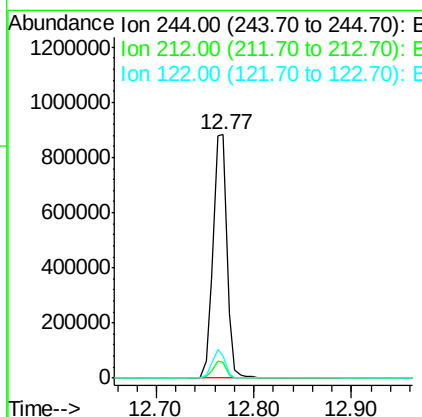
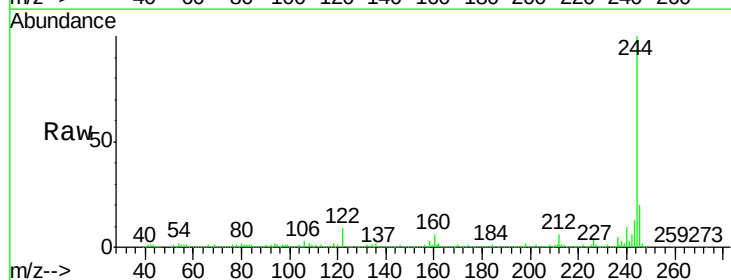
Instrument :
BNA_F
ClientSampleId :

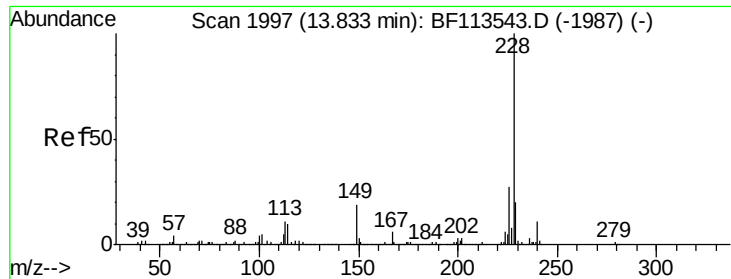
Tot Ion:202 Resp: 878497
Ion Ratio Lower Upper
202 100
200 20.7 16.8 25.2
203 17.9 14.4 21.6



#79
Terphenyl-d14
Concen: 69.217 ng
RT: 12.77 min Scan# 1816
Delta R.T. -0.02 min
Lab File: BF113775.D
Acq: 15 Apr 2019 21:03

Tgt Ion:244 Resp: 878249
Ion Ratio Lower Upper
244 100
212 6.3 5.5 8.3
122 9.2 8.6 13.0

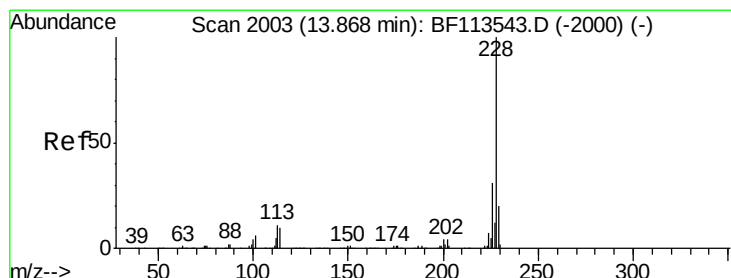
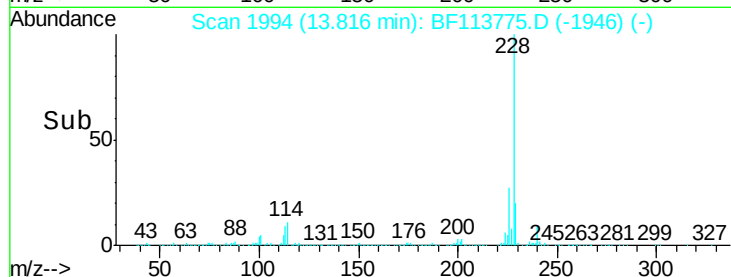
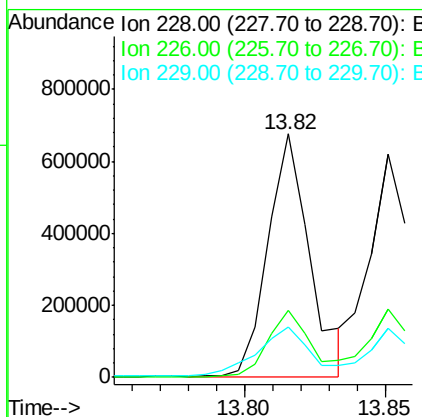
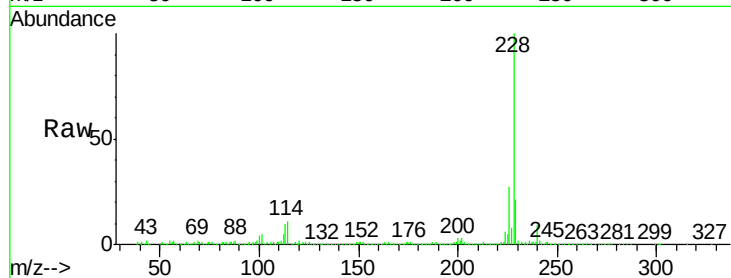




#81
Benzo(a)anthracene
Concen: 46.215 ng
RT: 13.82 min Scan# 1994
Delta R.T. -0.02 min
Lab File: BF113775.D
Acq: 15 Apr 2019 21:03

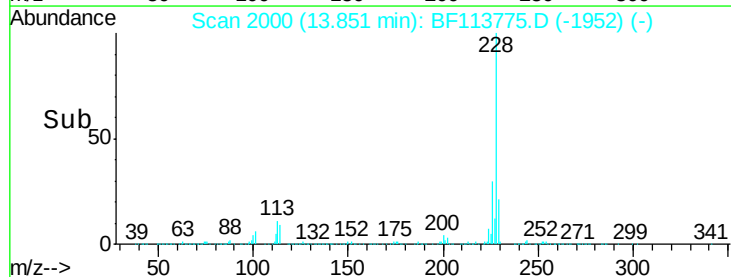
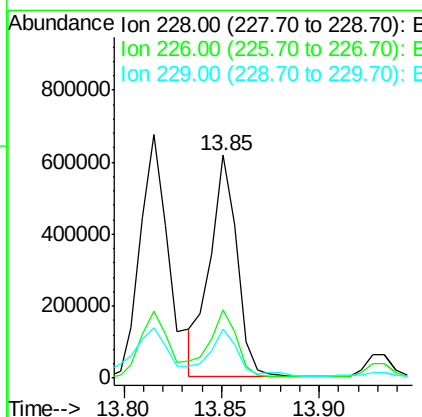
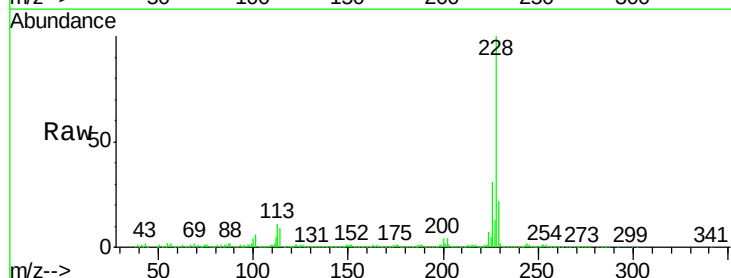
Instrument :
BNA_F
ClientSampleId :

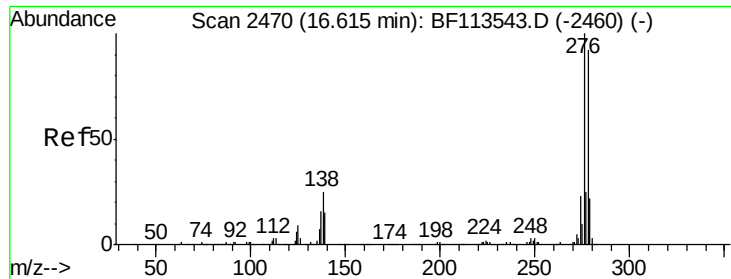
Tot Ion:228 Resp: 688703
Ion Ratio Lower Upper
228 100
226 27.4 21.8 32.8
229 20.8 16.2 24.4



#83
Chrysene
Concen: 39.154 ng
RT: 13.85 min Scan# 2000
Delta R.T. -0.02 min
Lab File: BF113775.D
Acq: 15 Apr 2019 21:03

Tgt Ion:228 Resp: 591488
Ion Ratio Lower Upper
228 100
226 30.7 24.3 36.5
229 21.8 16.3 24.5

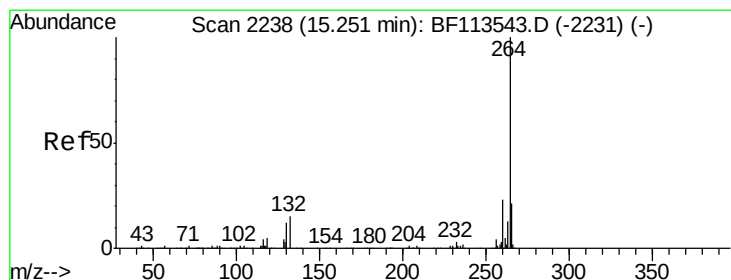
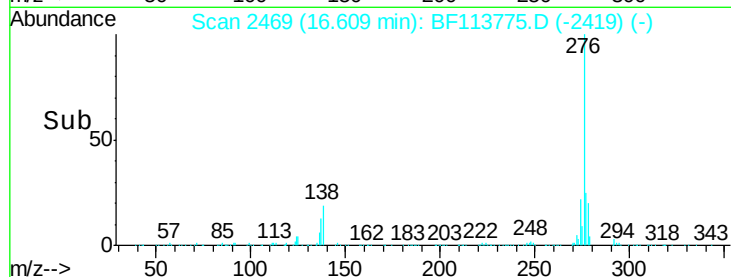
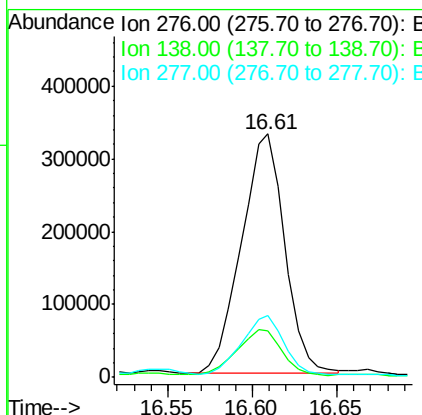
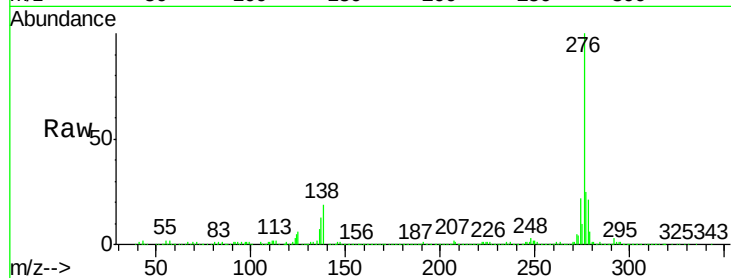




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 42.101 ng
 RT: 16.61 min Scan# 2469
 Delta R.T. -0.01 min
 Lab File: BF113775.D
 Acq: 15 Apr 2019 21:03

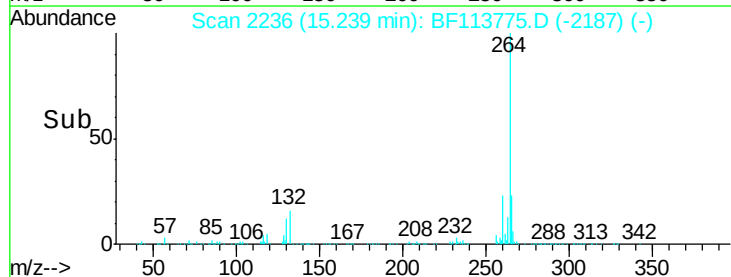
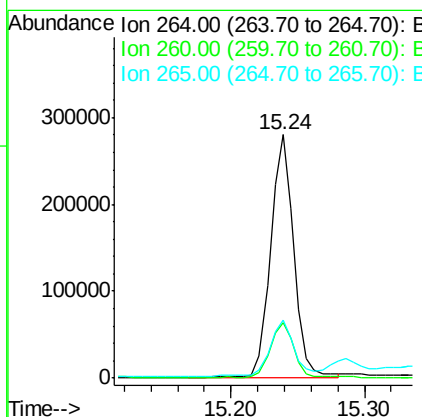
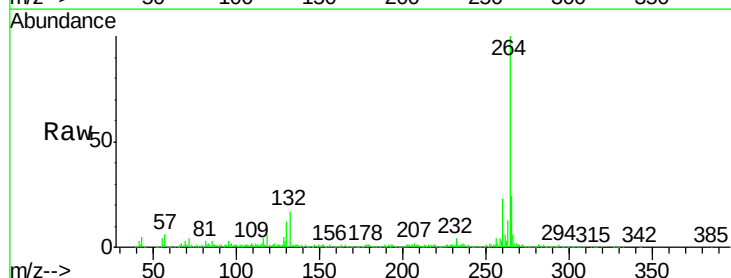
Instrument :
 BNA_F
 ClientSampleId :

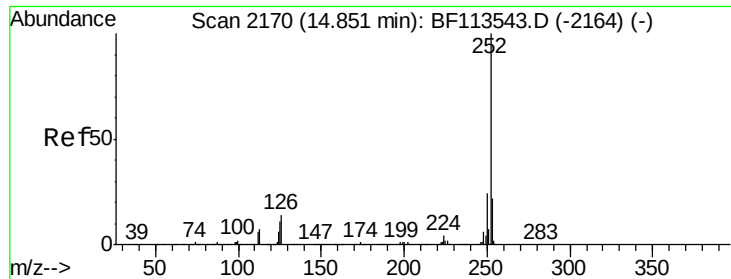
Tot Ion	Ratio	Lower	Upper
276	100		
138	20.1	18.1	27.1
277	23.7	20.2	30.4



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.24 min Scan# 2236
 Delta R.T. -0.01 min
 Lab File: BF113775.D
 Acq: 15 Apr 2019 21:03

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.1	28.7
265	23.7	17.1	25.7

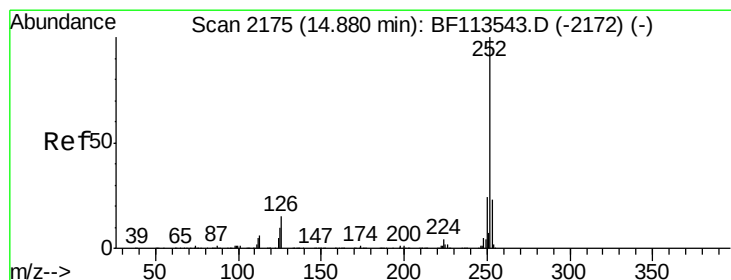
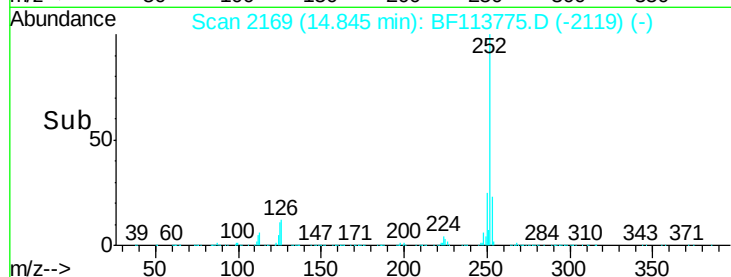
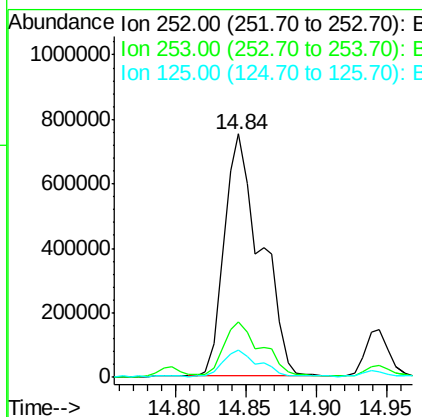
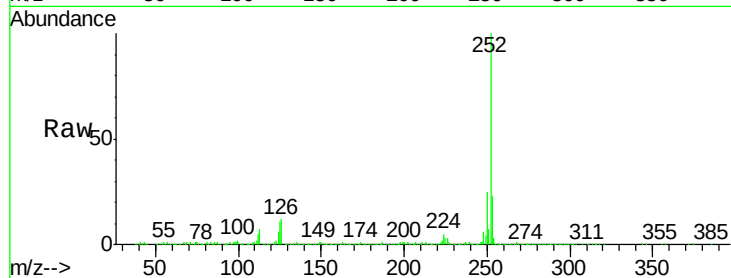




#88
Benzo(b)fluoranthene
Concen: 65.457 ng
RT: 14.84 min Scan# 2169
Delta R.T. -0.01 min
Lab File: BF113775.D
Acq: 15 Apr 2019 21:03

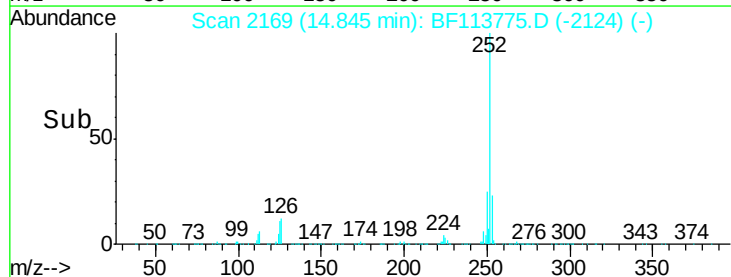
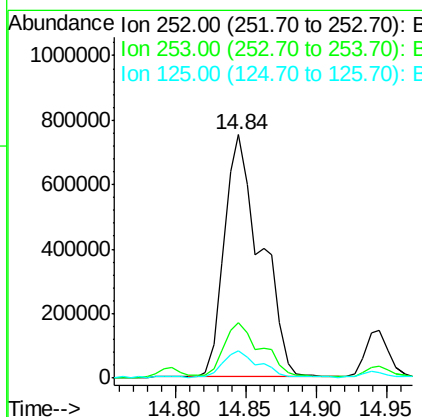
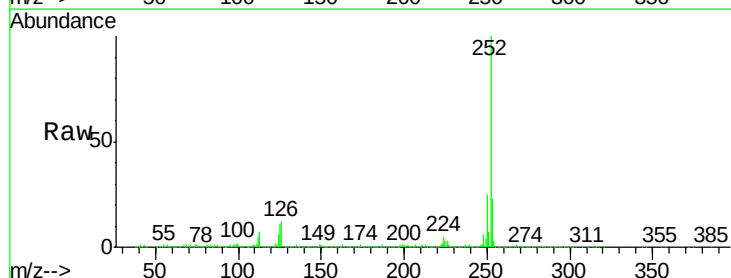
Instrument :
BNA_F
ClientSampleId :

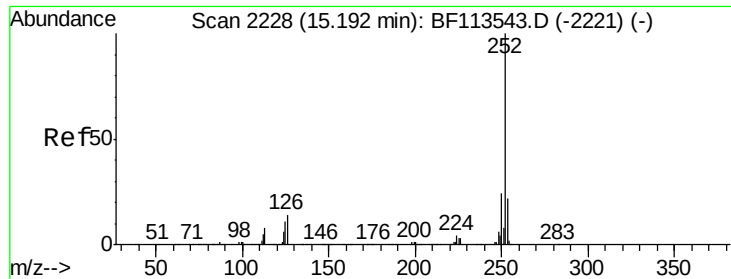
Tot Ion:252 Resp: 1355515
Ion Ratio Lower Upper
252 100
253 23.0 18.0 27.0
125 11.2 7.6 11.4



#89
Benzo(k)fluoranthene
Concen: 72.934 ng
RT: 14.84 min Scan# 2169
Delta R.T. -0.04 min
Lab File: BF113775.D
Acq: 15 Apr 2019 21:03

Tgt Ion:252 Resp: 1355515
Ion Ratio Lower Upper
252 100
253 23.0 17.7 26.5
125 11.2 7.3 10.9#

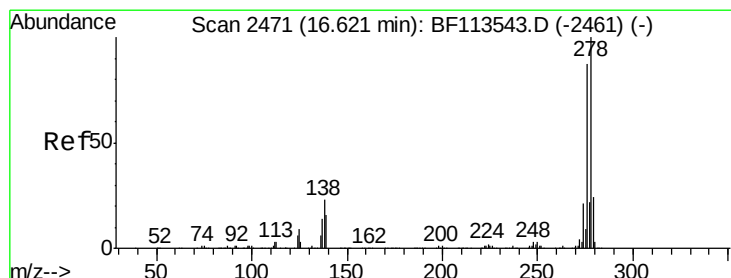
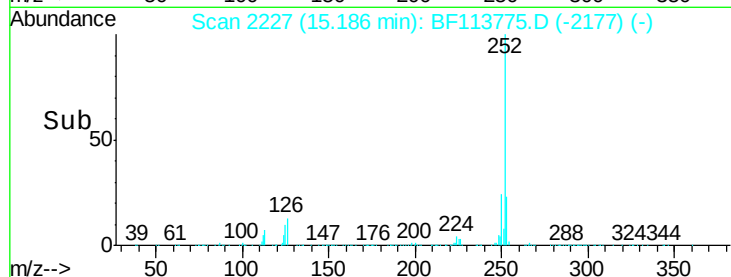
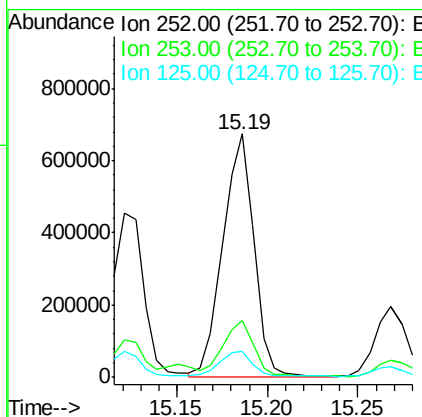
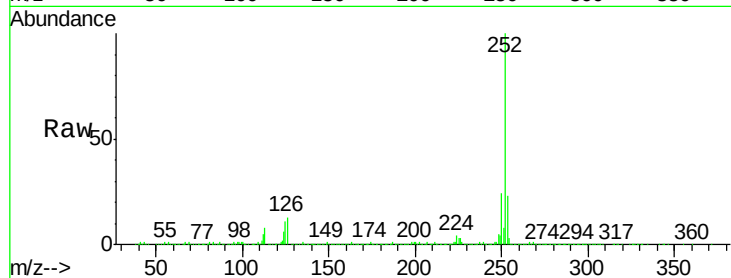




#90
Benzo(a)pyrene
Concen: 43.521 ng
RT: 15.19 min Scan# 2227
Delta R.T. -0.01 min
Lab File: BF113775.D
Acq: 15 Apr 2019 21:03

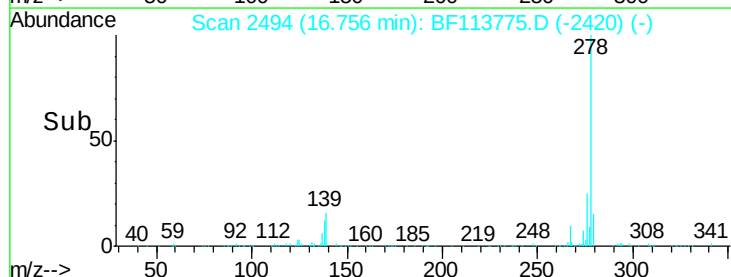
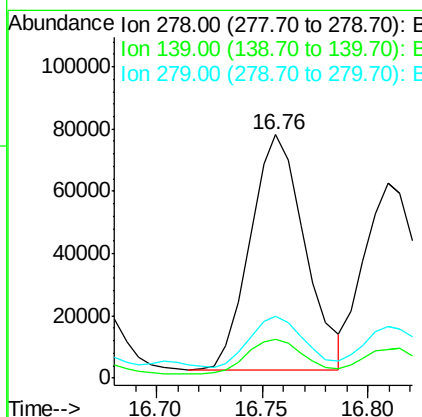
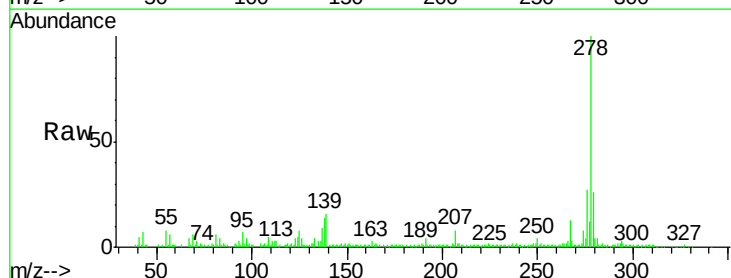
Instrument :
BNA_F
ClientSampleId :

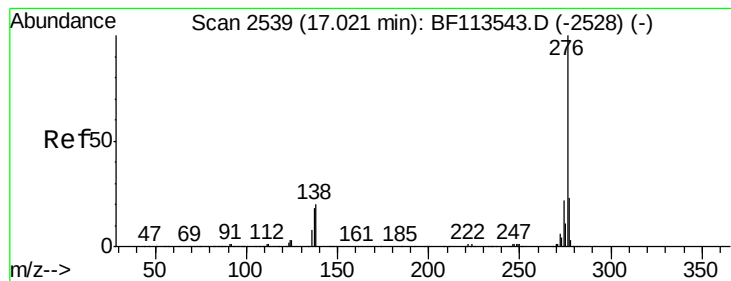
Tot Ion:252 Resp: 800852
Ion Ratio Lower Upper
252 100
253 23.5 17.9 26.9
125 10.8 8.8 13.2



#91
Dibenzo(a,h)anthracene
Concen: 7.919 ng
RT: 16.76 min Scan# 2494
Delta R.T. 0.14 min
Lab File: BF113775.D
Acq: 15 Apr 2019 21:03

Tgt Ion:278 Resp: 136273
Ion Ratio Lower Upper
278 100
139 15.7 12.0 18.0
279 25.5 19.0 28.6





#92

Benzo(a,h,i)perylene

Concen: 32.473 ng

RT: 17.02 min Scan# 2538

Delta R.T. -0.01 min

Lab File: BF113775.D

Acq: 15 Apr 2019 21:03

Instrument :

BNA_F

ClientSampleId :

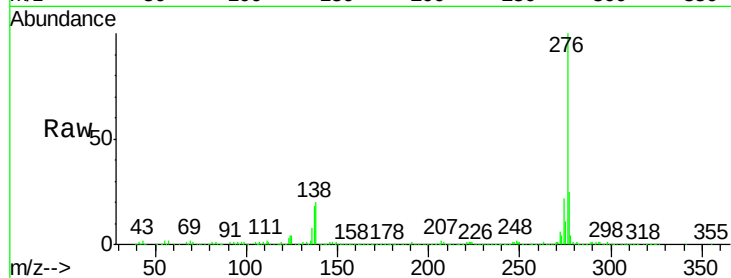
Tot Ion:276 Resp: 570366

Ion Ratio Lower Upper

276 100

277 25.2 18.8 28.2

138 20.3 15.6 23.4



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

