

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF020619\
 Data File : BF112424.D
 Acq On : 6 Feb 2019 17:10
 Operator : JU/SJ
 Sample : K1379-01 5X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HR-6A

Quant Time: Feb 06 23:54:02 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 28 10:38:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	149287	20.00	ng	-0.01
21) Naphthalene-d8	8.12	136	591740	20.00	ng	-0.01
39) Acenaphthene-d10	9.87	164	273453	20.00	ng	-0.02
64) Phenanthrene-d10	11.36	188	426596	20.00	ng	-0.01
76) Chrysene-d12	14.00	240	326612	20.00	ng	0.00
87) Perylene-d12	15.47	264	306320	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.46	112	176875	25.17	ng	-0.02
7) Phenol-d6	6.48	99	233112	23.87	ng	-0.01
23) Nitrobenzene-d5	7.39	82	137104	13.35	ng	-0.02
42) 2,4,6-Tribromophenol	10.66	330	57573	18.09	ng	-0.02
45) 2-Fluorobiphenyl	9.19	172	248601	12.86	ng	-0.02
79) Terphenyl-d14	12.93	244	171676	9.90	ng	-0.02

Target Compounds

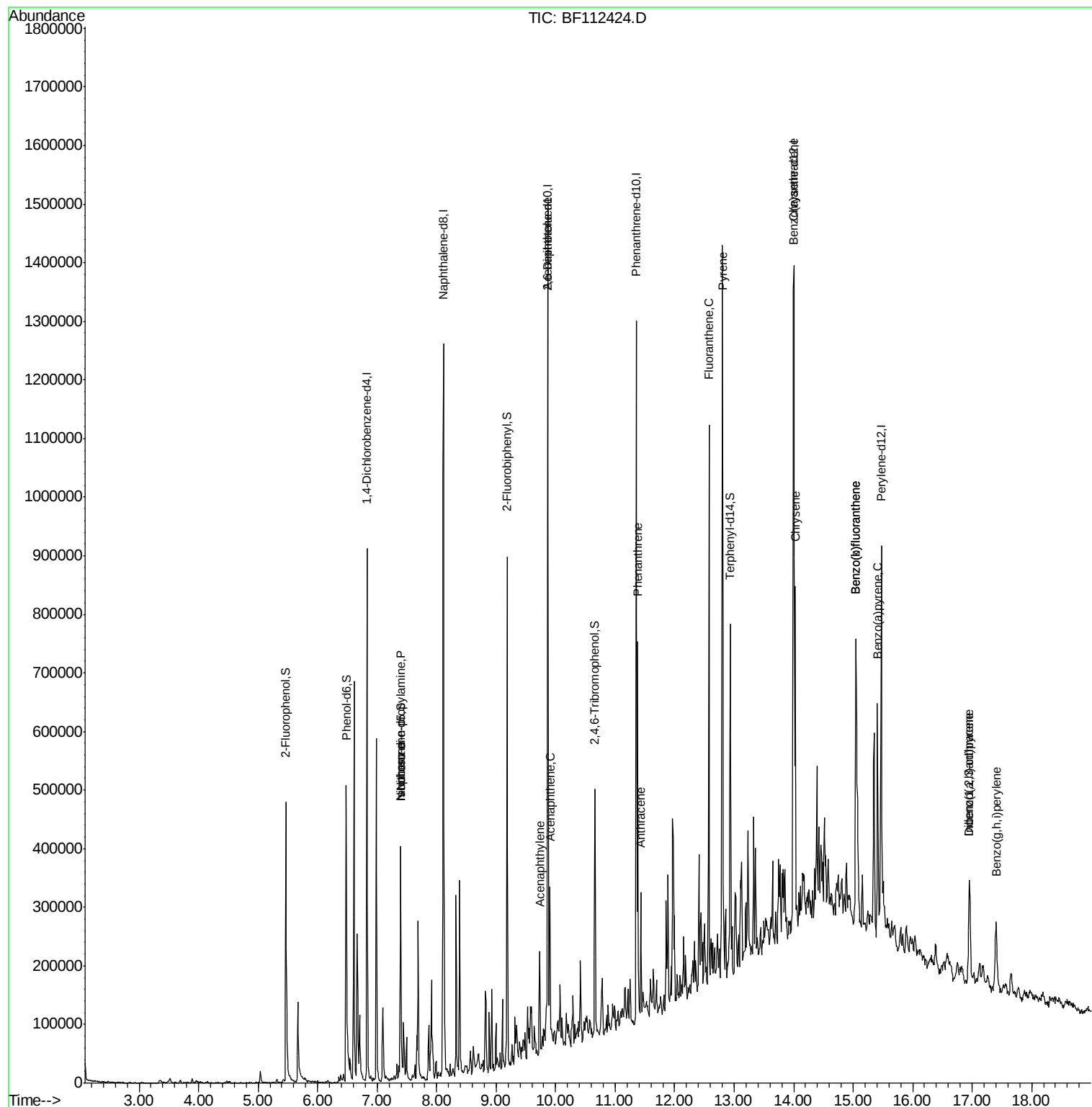
						Qvalue
19) n-Nitroso-di-n-propylamine	7.39	70	18545	2.754	ng	# 77
25) Isophorone	7.39	82	137103	8.510	ng	# 63
49) Acenaphthylene	9.73	152	79421	2.923	ng	97
51) 2,6-Dinitrotoluene	9.87	165	37660	7.915	ng	# 36
52) Acenaphthene	9.90	154	53575	3.301	ng	99
71) Phenanthrene	11.38	178	227225	10.245	ng	97
72) Anthracene	11.43	178	78966	3.574	ng	98
75) Fluoranthene	12.57	202	358203	15.059	ng	97
78) Pyrene	12.80	202	477461	21.115	ng	97
81) Benzo(a)anthracene	13.99	228	226386	11.791	ng	98
83) Chrysene	14.03	228	209354	11.423	ng	97
86) Indeno(1,2,3-cd)pyrene	16.95	276	90485	6.231	ng	# 93
88) Benzo(b)fluoranthene	15.04	252	357094	19.493	ng	99
89) Benzo(k)fluoranthene	15.04	252	357094	20.350	ng	100
90) Benzo(a)pyrene	15.41	252	183558	11.136	ng	# 96
91) Dibenzo(a,h)anthracene	16.95	278	26616	2.003	ng	# 88
92) Benzo(g,h,i)perylene	17.40	276	93525	7.462	ng	97

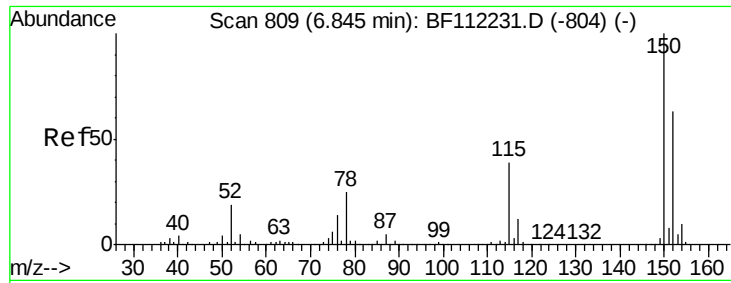
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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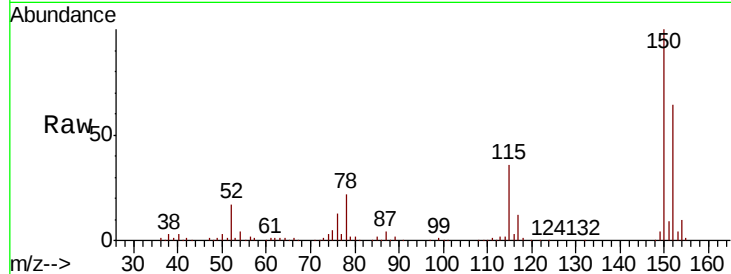


#1

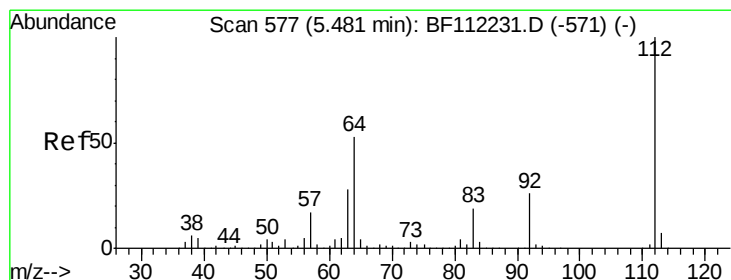
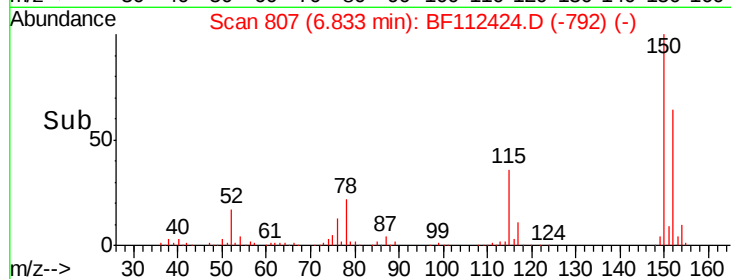
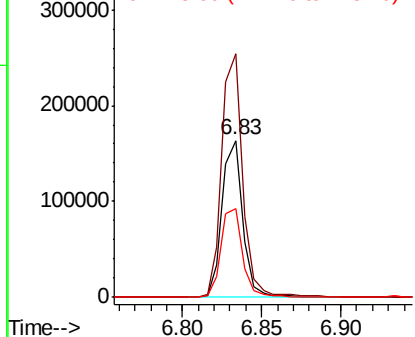
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.83 min Scan# 807
Delta R.T. -0.01 min
Lab File: BF112424.D
Acq: 6 Feb 2019 17:10

Instrument :
BNA_F
ClientSampleId :
HR-6A

Tgt Ion:152 Resp: 149287
Ion Ratio Lower Upper
152 100
150 155.4 127.4 191.0
115 56.5 45.5 68.3



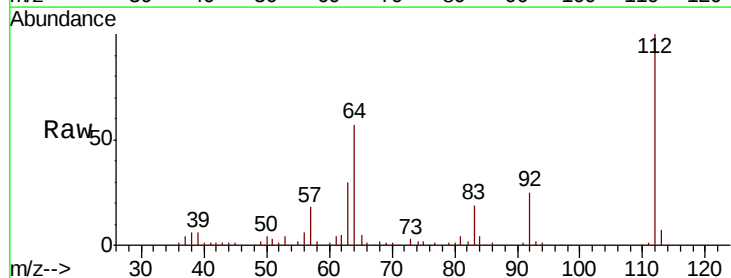
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



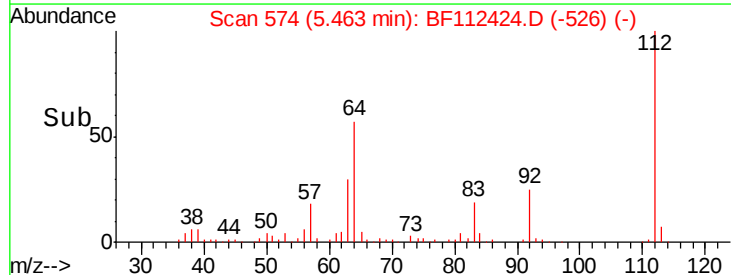
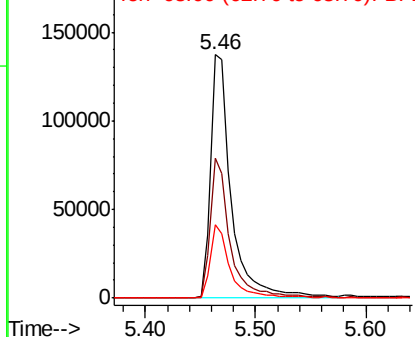
#5

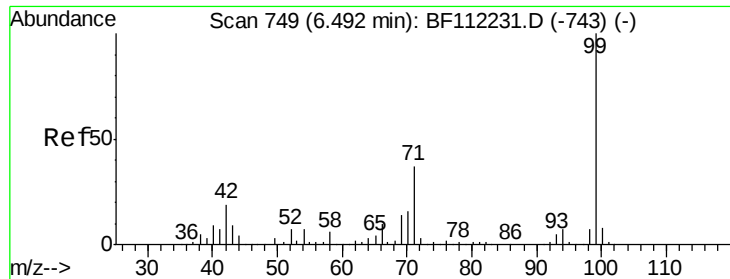
2-Fluorophenol
Concen: 25.166 ng
RT: 5.46 min Scan# 574
Delta R.T. -0.02 min
Lab File: BF112424.D
Acq: 6 Feb 2019 17:10

Tgt Ion:112 Resp: 176875
Ion Ratio Lower Upper
112 100
64 57.4 45.7 68.5
63 30.2 23.6 35.4



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





#7

Phenol-d6

Concen: 23.869 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF112424.D

Acq: 6 Feb 2019 17:10

Instrument :

BNA_F

ClientSampleId :

HR-6A

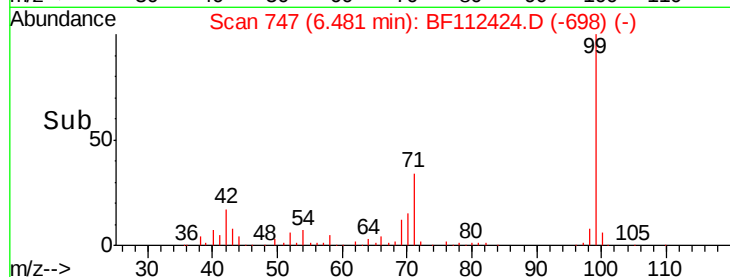
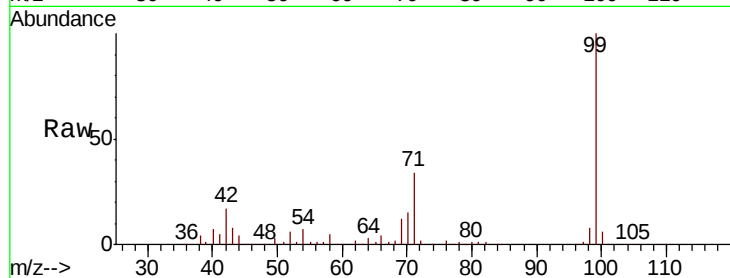
Tgt Ion: 99 Resp: 233112

Ion Ratio Lower Upper

99 100

42 17.3 15.1 22.7

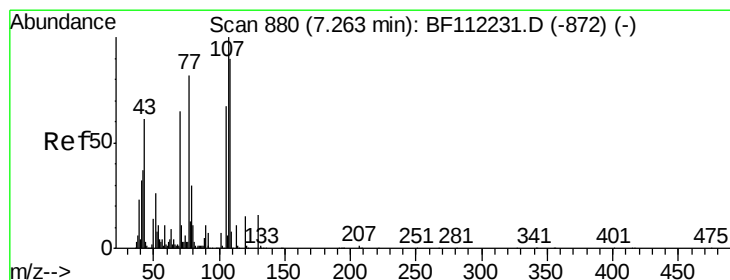
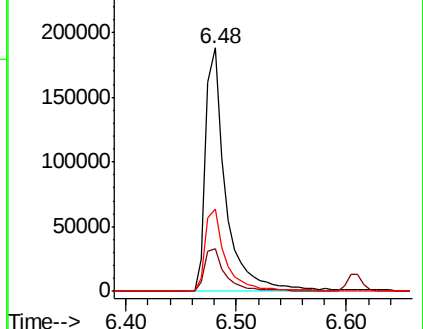
71 33.8 26.9 40.3



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: 2.754 ng

RT: 7.39 min Scan# 902

Delta R.T. 0.13 min

Lab File: BF112424.D

Acq: 6 Feb 2019 17:10

Tgt Ion: 70 Resp: 18545

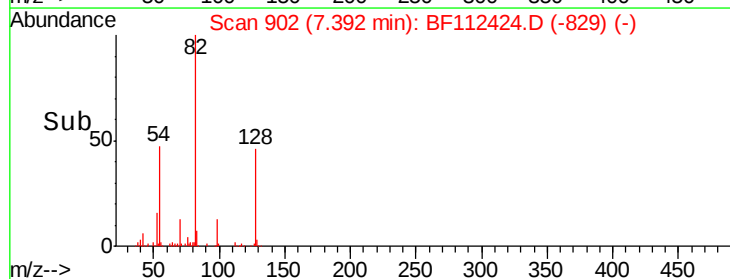
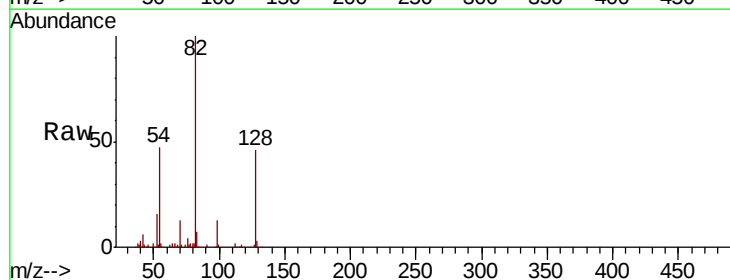
Ion Ratio Lower Upper

70 100

42 48.7 47.6 71.4

101 0.0 7.9 11.9#

130 2.6 18.4 27.6#

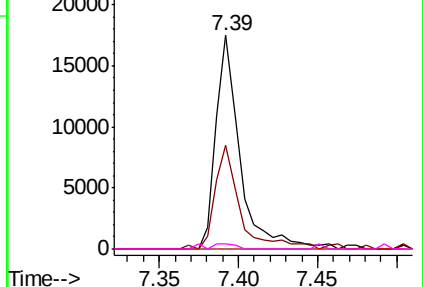


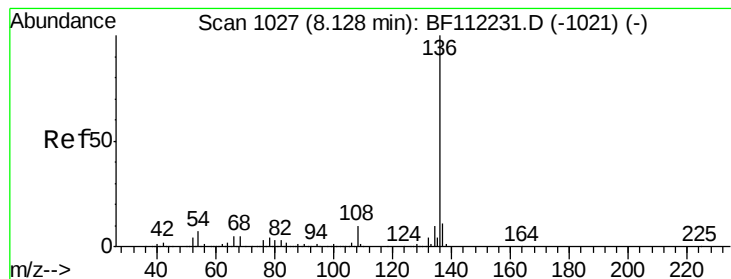
Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 8.12 min Scan# 1025

Delta R.T. -0.01 min

Lab File: BF112424.D

Acq: 6 Feb 2019 17:10

Instrument :

BNA_F

ClientSampleId :

HR-6A

Tgt Ion:136 Resp: 591740

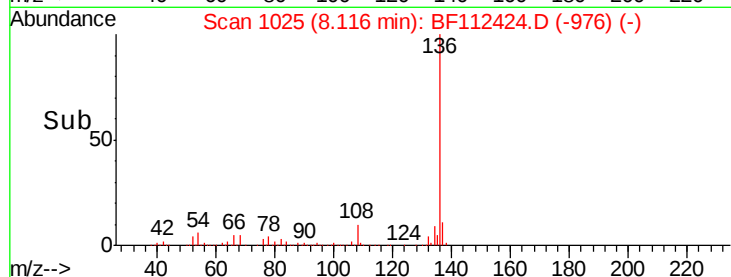
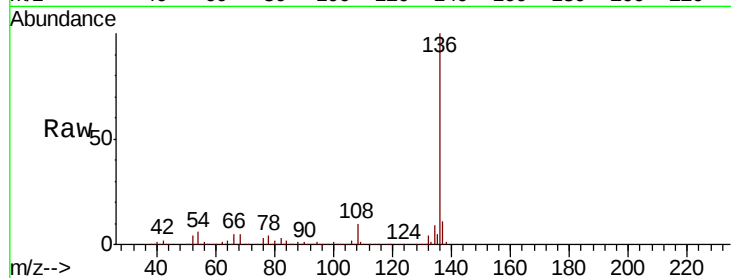
Ion Ratio Lower Upper

136 100

137 11.0 9.1 13.7

54 5.7 5.9 8.9#

68 4.6 5.1 7.7#

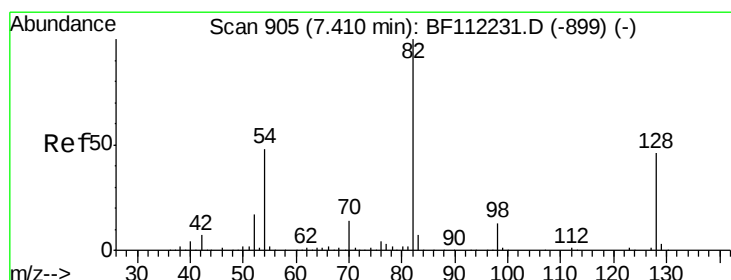
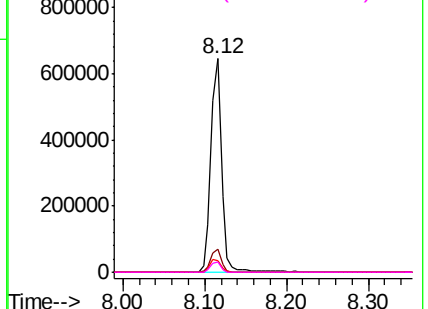


Abundance Ion 136.00 (135.70 to 136.70): E

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: 13.350 ng

RT: 7.39 min Scan# 902

Delta R.T. -0.02 min

Lab File: BF112424.D

Acq: 6 Feb 2019 17:10

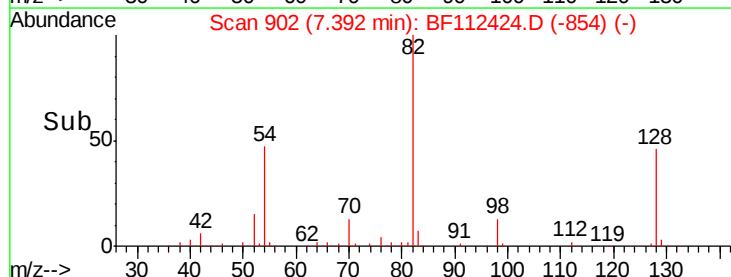
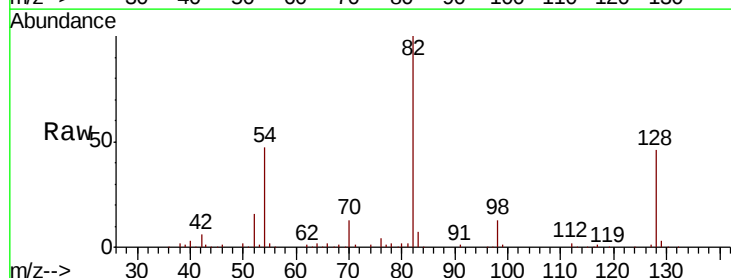
Tgt Ion: 82 Resp: 137104

Ion Ratio Lower Upper

82 100

128 46.4 37.8 56.8

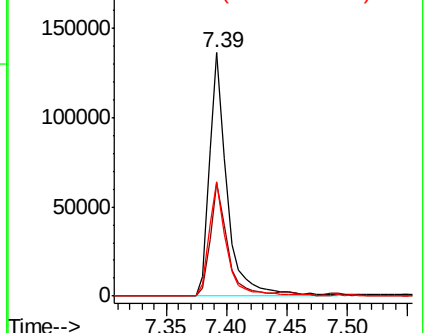
54 47.0 39.7 59.5

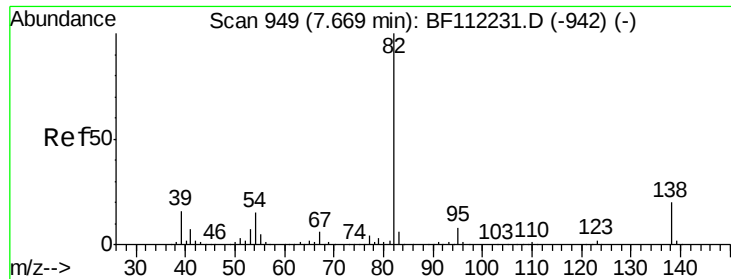


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 8.510 ng

RT: 7.39 min Scan# 902

Delta R.T. -0.28 min

Lab File: BF112424.D

Acq: 6 Feb 2019 17:10

Instrument :

BNA_F

ClientSampleId :

HR-6A

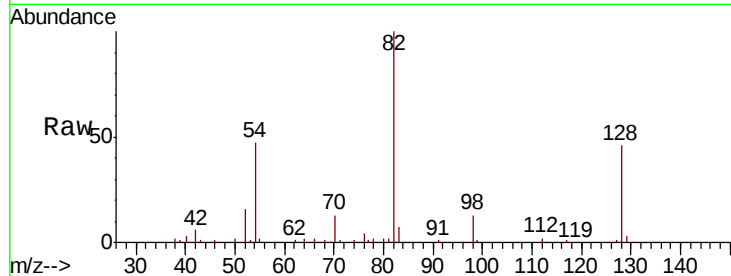
Tgt Ion: 82 Resp: 137103

Ion Ratio Lower Upper

82 100

95 0.0 5.7 8.5#

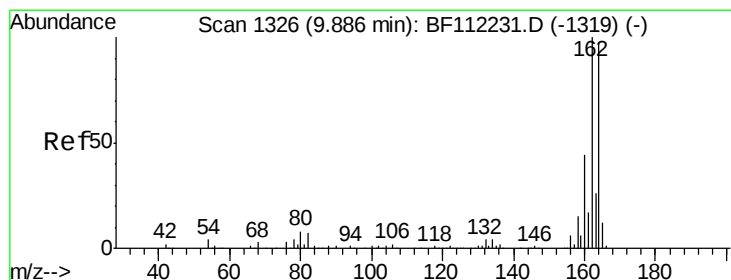
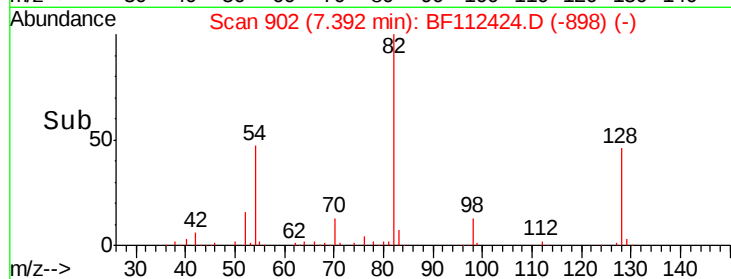
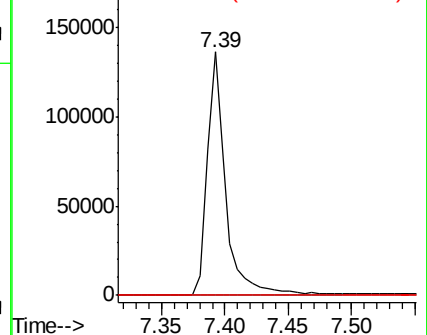
138 0.0 15.4 23.0#



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): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.02 min

Lab File: BF112424.D

Acq: 6 Feb 2019 17:10

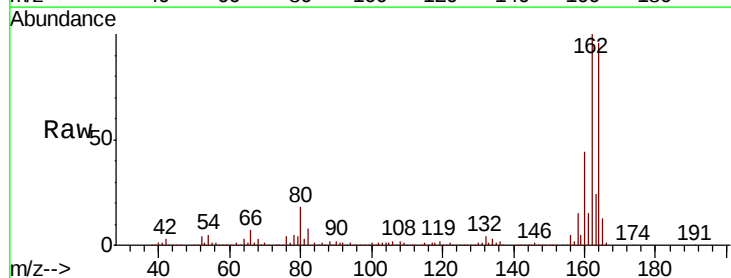
Tgt Ion: 164 Resp: 273453

Ion Ratio Lower Upper

164 100

162 104.7 82.2 123.4

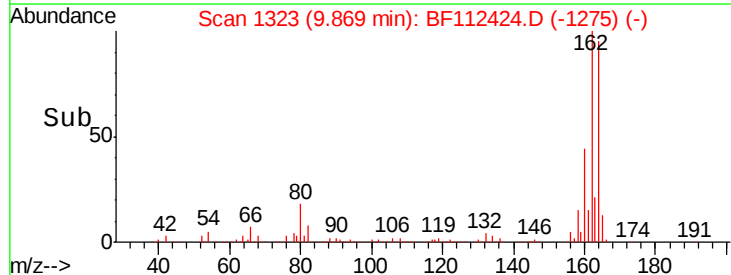
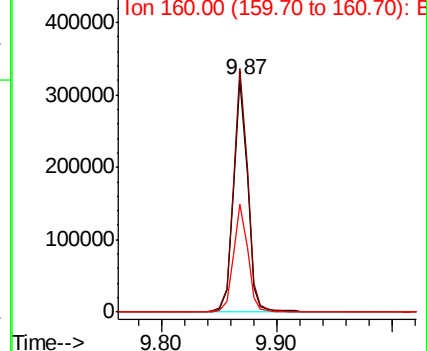
160 46.4 36.2 54.4



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: 18.088 ng

RT: 10.66 min Scan# 1458

Delta R.T. -0.02 min

Lab File: BF112424.D

Acq: 6 Feb 2019 17:10

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ClientSampleId :

HR-6A

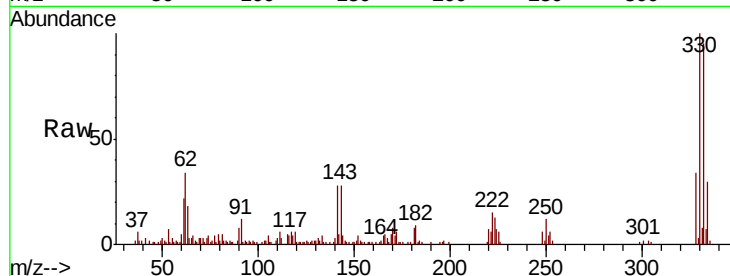
Tgt Ion:330 Resp: 57573

Ion Ratio Lower Upper

330 100

332 93.0 76.6 114.8

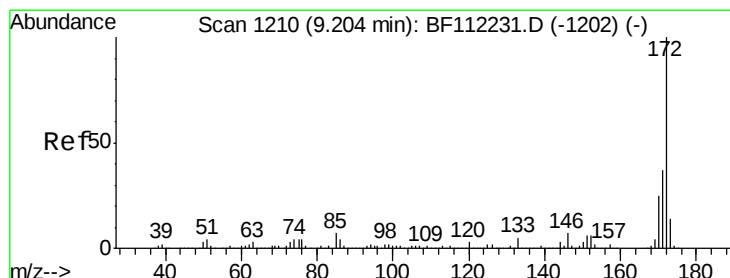
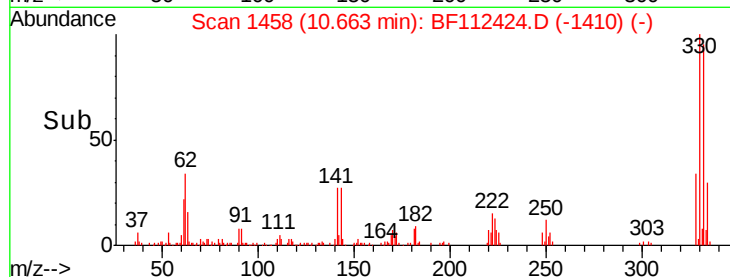
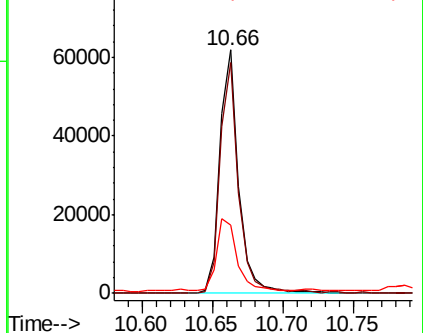
141 31.8 24.3 36.5



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: 12.858 ng

RT: 9.19 min Scan# 1207

Delta R.T. -0.02 min

Lab File: BF112424.D

Acq: 6 Feb 2019 17:10

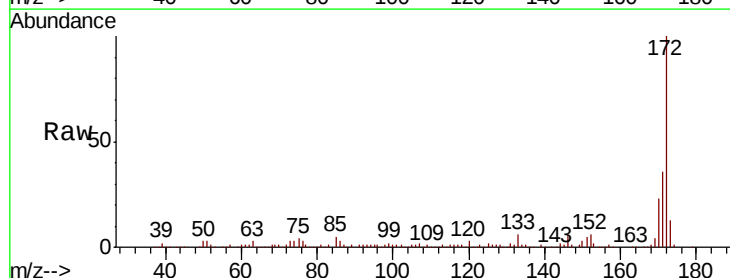
Tgt Ion:172 Resp: 248601

Ion Ratio Lower Upper

172 100

171 35.7 30.5 45.7

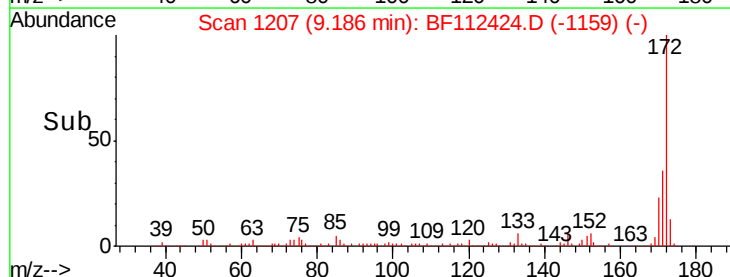
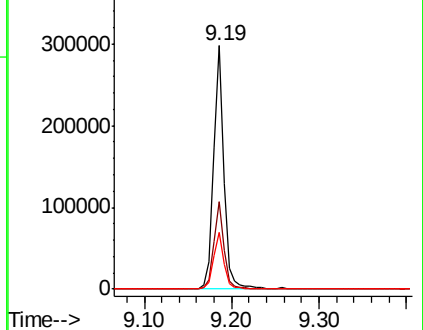
170 23.4 20.2 30.4

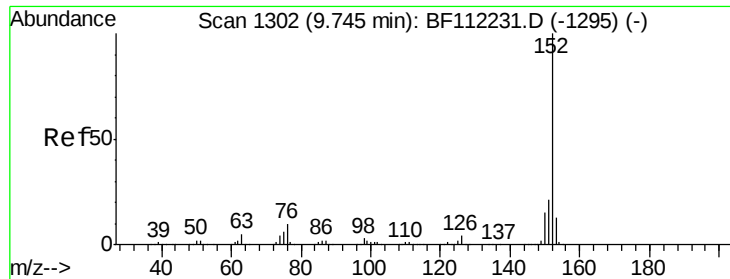


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#49

Acenaphthylene

Concen: 2.923 ng

RT: 9.73 min Scan# 1300

Delta R.T. -0.01 min

Lab File: BF112424.D

Acq: 6 Feb 2019 17:10

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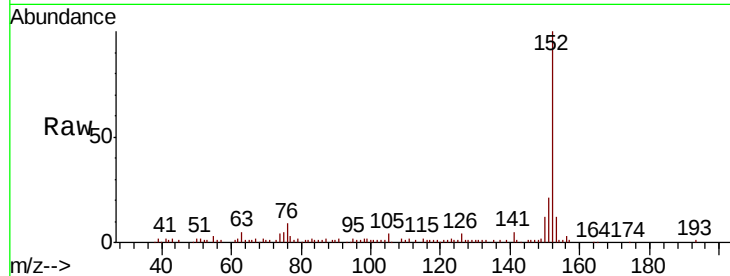
Tgt Ion:152 Resp: 79421

Ion Ratio Lower Upper

152 100

151 20.9 17.0 25.6

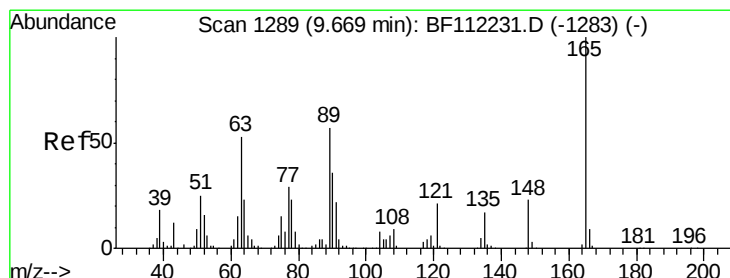
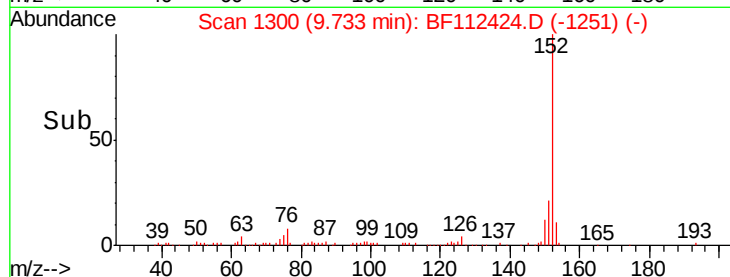
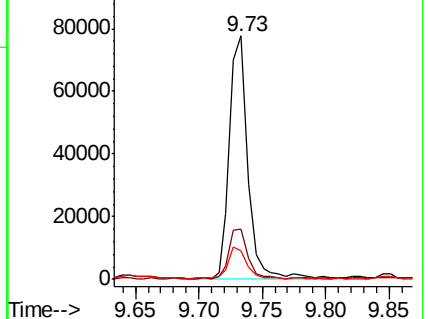
153 11.9 11.2 16.8



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#51

2,6-Dinitrotoluene

Concen: 7.915 ng

RT: 9.87 min Scan# 1323

Delta R.T. 0.20 min

Lab File: BF112424.D

Acq: 6 Feb 2019 17:10

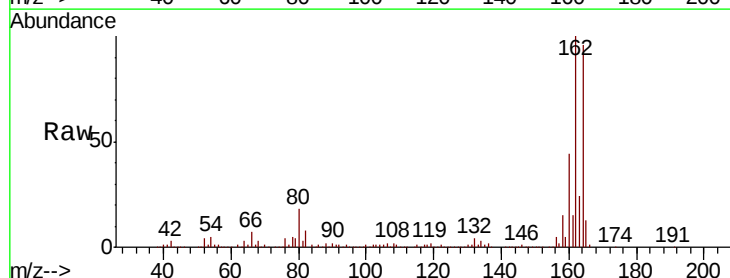
Tgt Ion:165 Resp: 37660

Ion Ratio Lower Upper

165 100

63 3.0 33.8 50.8#

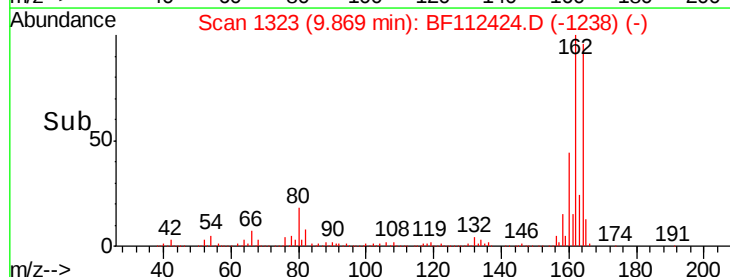
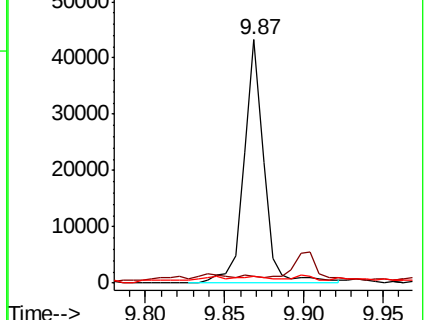
89 2.8 36.9 55.3#

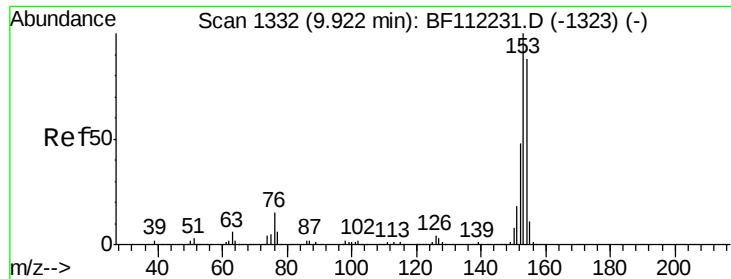


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1





#52

Acenaphthene

Concen: 3.301 ng

RT: 9.90 min Scan# 1329

Delta R.T. -0.02 min

Lab File: BF112424.D

Acq: 6 Feb 2019 17:10

Instrument :

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HR-6A

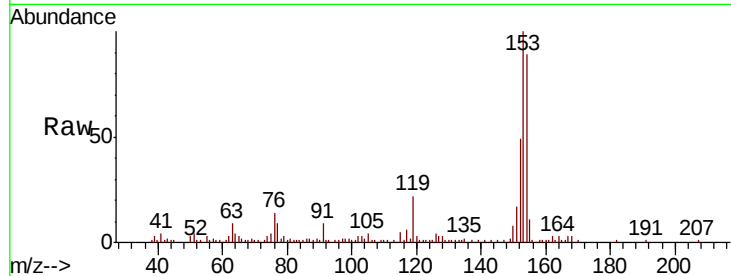
Tgt Ion:154 Resp: 53575

Ion Ratio Lower Upper

154 100

153 111.9 89.8 134.6

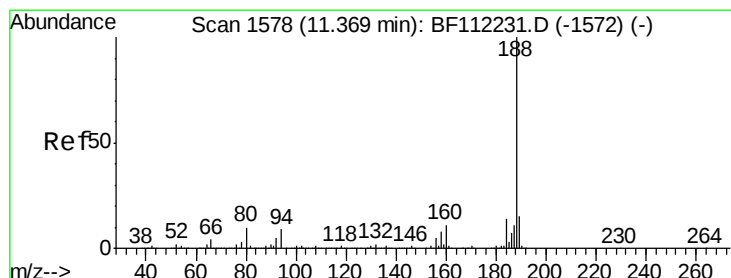
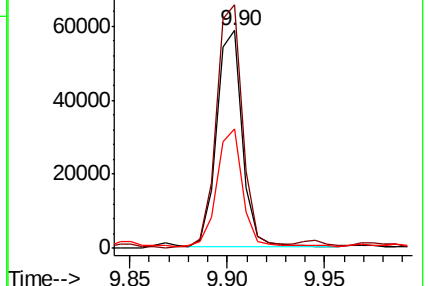
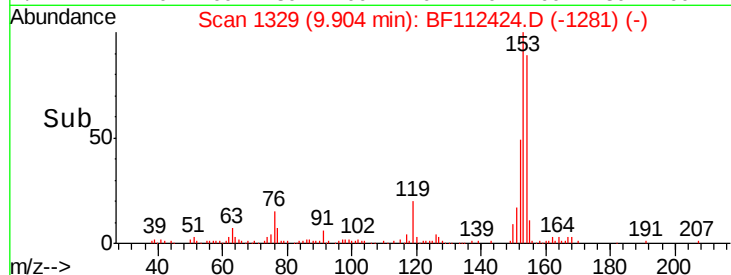
152 55.1 43.5 65.3



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



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.36 min Scan# 1576

Delta R.T. -0.01 min

Lab File: BF112424.D

Acq: 6 Feb 2019 17:10

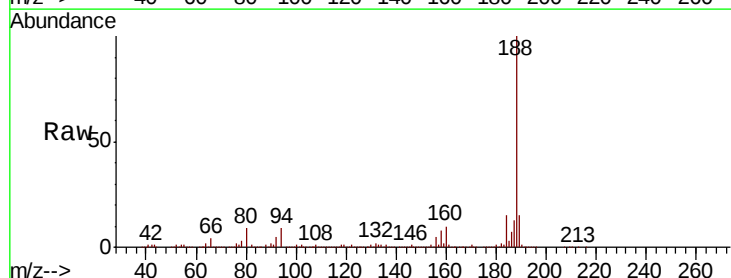
Tgt Ion:188 Resp: 426596

Ion Ratio Lower Upper

188 100

94 8.7 8.2 12.2

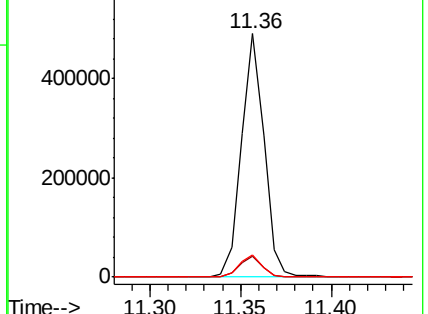
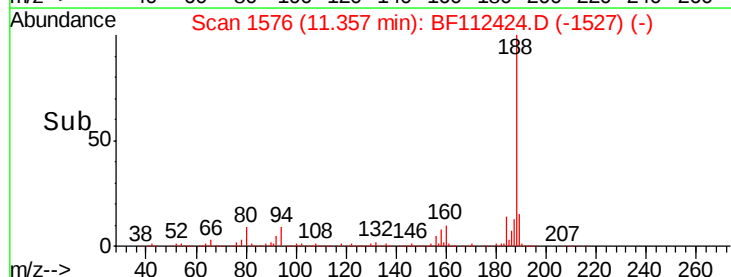
80 9.0 8.9 13.3

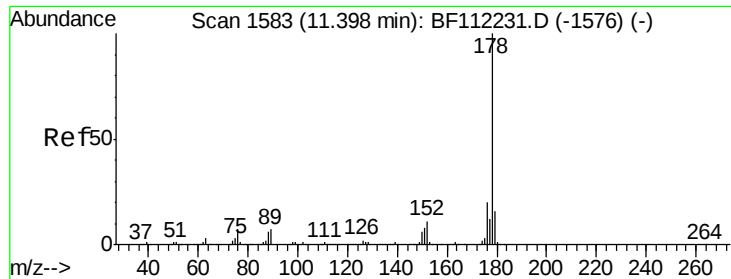


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

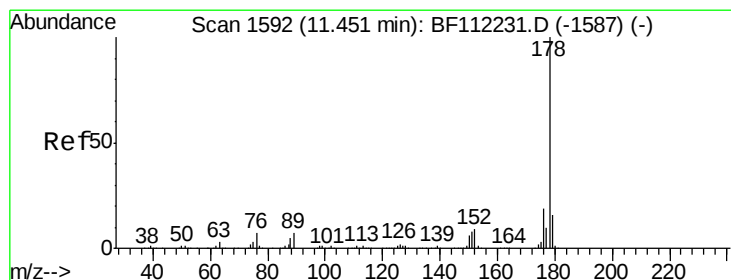
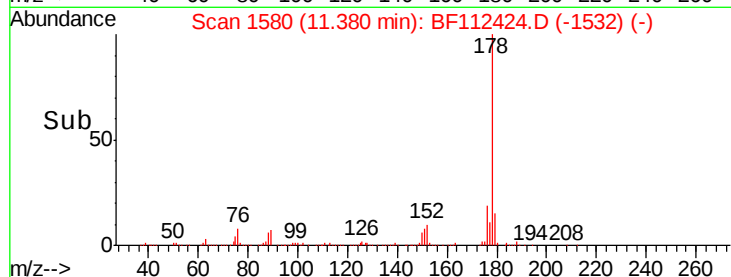
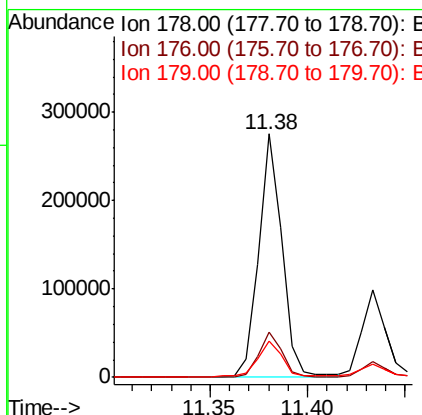
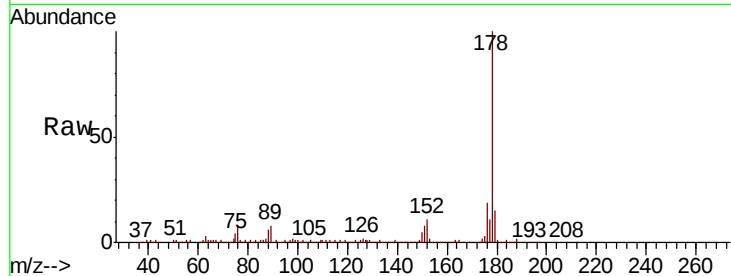




#71
Phenanthrene
Concen: 10.245 ng
RT: 11.38 min Scan# 1580
Delta R.T. -0.02 min
Lab File: BF112424.D
Acq: 6 Feb 2019 17:10

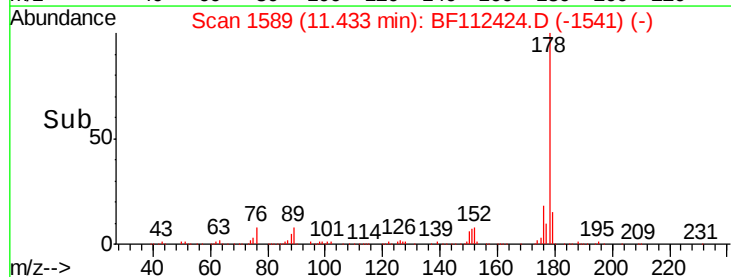
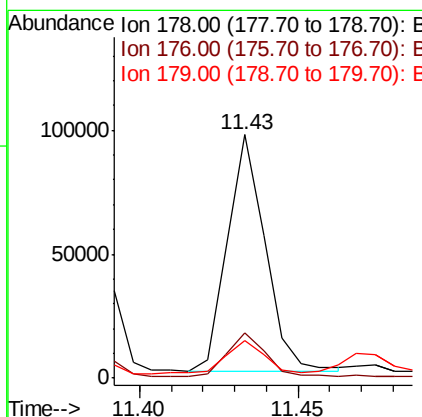
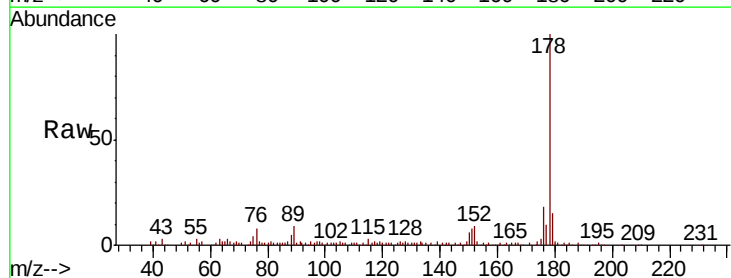
Instrument :
BNA_F
ClientSampleId :
HR-6A

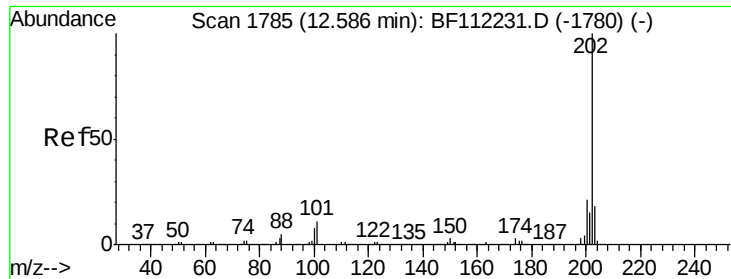
Tgt Ion:178 Resp: 227225
Ion Ratio Lower Upper
178 100
176 18.7 16.3 24.5
179 15.1 13.0 19.4



#72
Anthracene
Concen: 3.574 ng
RT: 11.43 min Scan# 1589
Delta R.T. -0.02 min
Lab File: BF112424.D
Acq: 6 Feb 2019 17:10

Tgt Ion:178 Resp: 78966
Ion Ratio Lower Upper
178 100
176 18.3 15.5 23.3
179 15.4 12.8 19.2





#75

Fluoranthene

Concen: 15.059 ng

RT: 12.57 min Scan# 1783

Delta R.T. -0.01 min

Lab File: BF112424.D

Acq: 6 Feb 2019 17:10

Instrument :

BNA_F

ClientSampled :

HR-6A

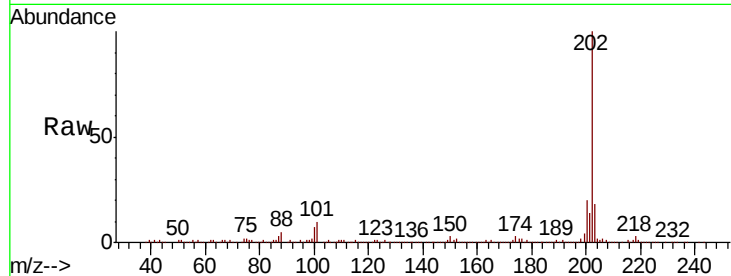
Tgt Ion:202 Resp: 358203

Ion Ratio Lower Upper

202 100

101 9.6 0.0 31.8

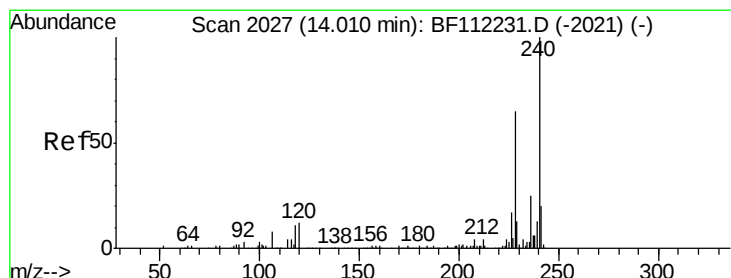
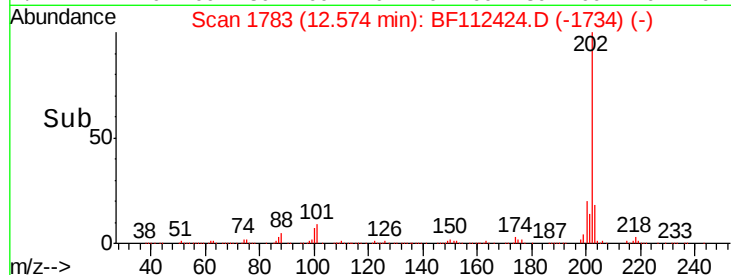
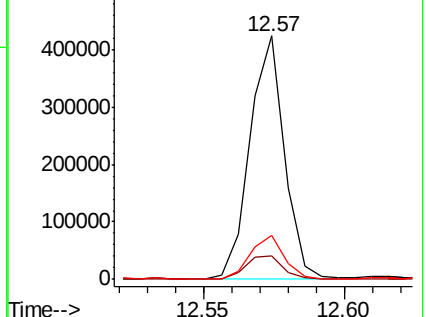
203 18.0 0.0 38.4



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: 14.00 min Scan# 2026

Delta R.T. -0.01 min

Lab File: BF112424.D

Acq: 6 Feb 2019 17:10

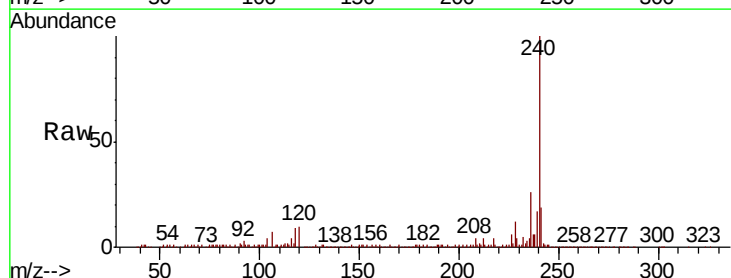
Tgt Ion:240 Resp: 326612

Ion Ratio Lower Upper

240 100

120 10.4 9.0 13.6

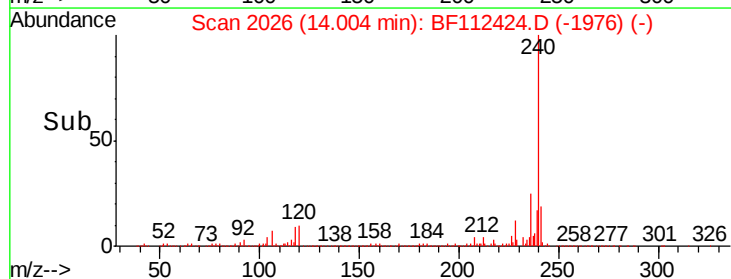
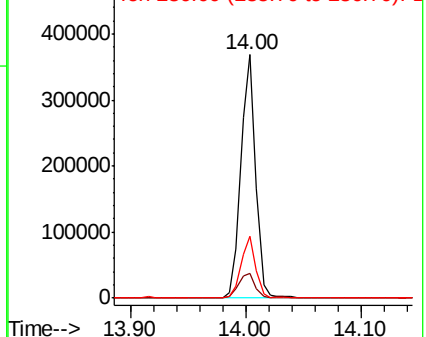
236 25.6 20.7 31.1

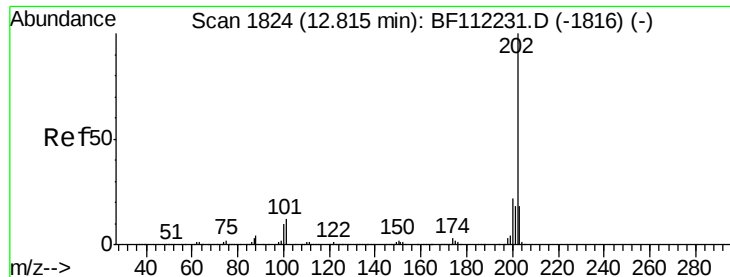


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

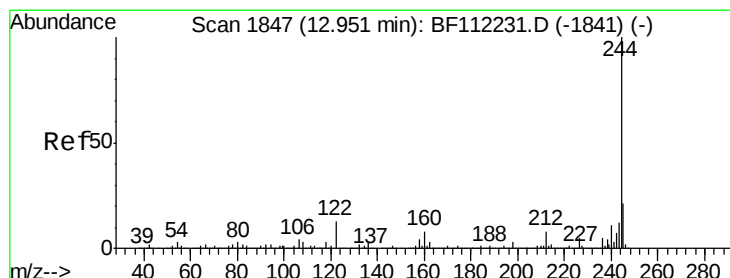
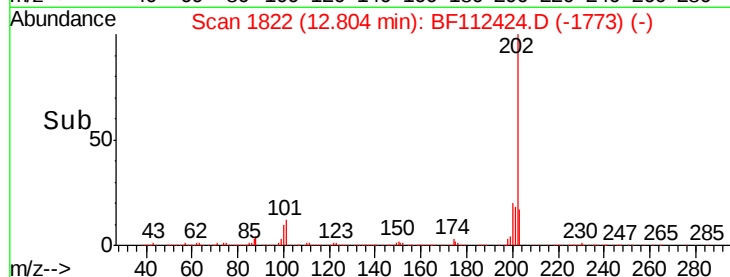
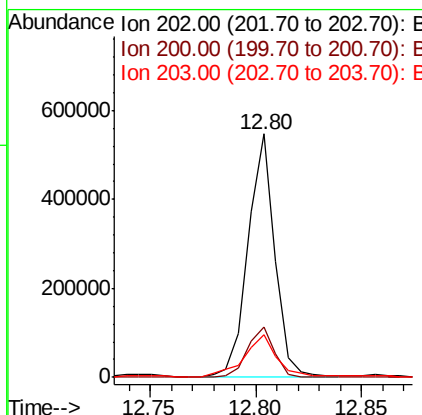
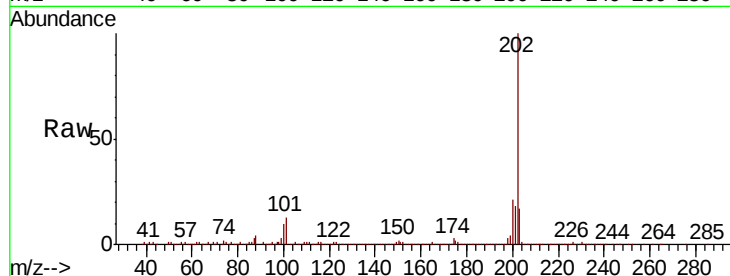




#78
Pyrene
Concen: 21.115 ng
RT: 12.80 min Scan# 1822
Delta R.T. -0.01 min
Lab File: BF112424.D
Acq: 6 Feb 2019 17:10

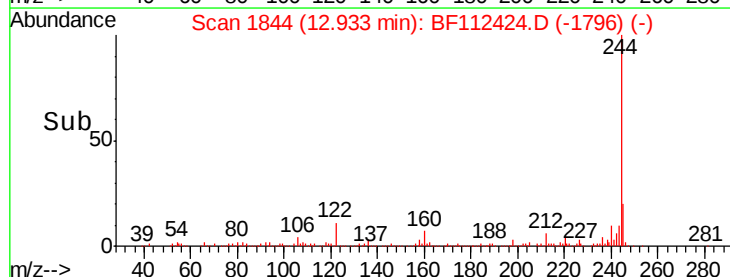
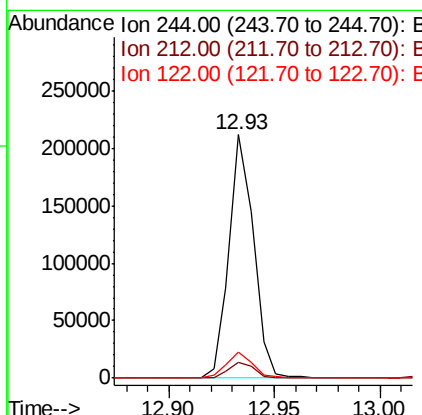
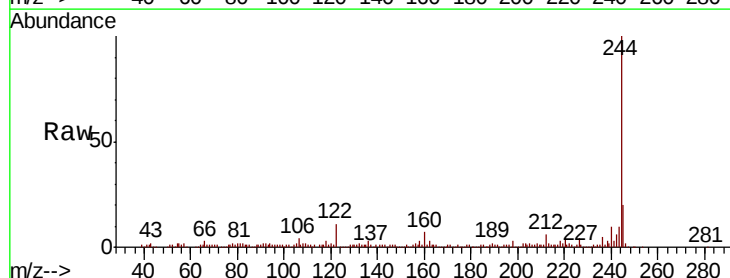
Instrument :
BNA_F
ClientSampleId :
HR-6A

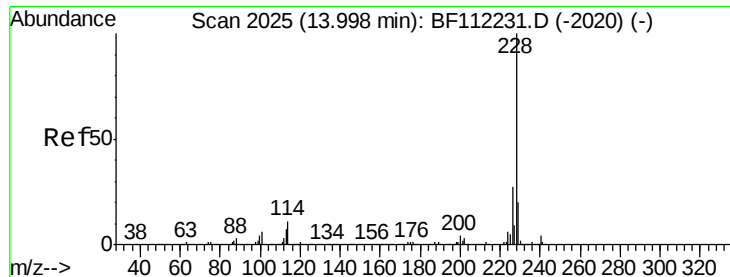
Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.6	17.7	26.5
203	17.4	14.6	22.0



#79
Terphenyl-d14
Concen: 9.900 ng
RT: 12.93 min Scan# 1844
Delta R.T. -0.02 min
Lab File: BF112424.D
Acq: 6 Feb 2019 17:10

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.9	8.9
122	10.8	9.8	14.6





#81

Benzo(a)anthracene

Concen: 11.791 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.01 min

Lab File: BF112424.D

Acq: 6 Feb 2019 17:10

Instrument :

BNA_F

ClientSampleId :

HR-6A

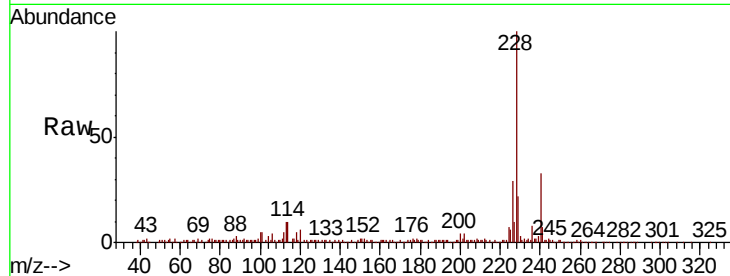
Tgt Ion:228 Resp: 226386

Ion Ratio Lower Upper

228 100

226 29.0 22.6 34.0

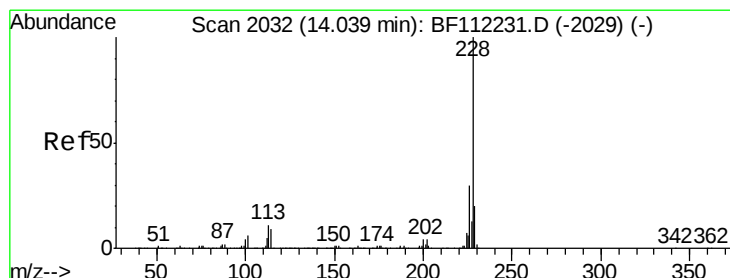
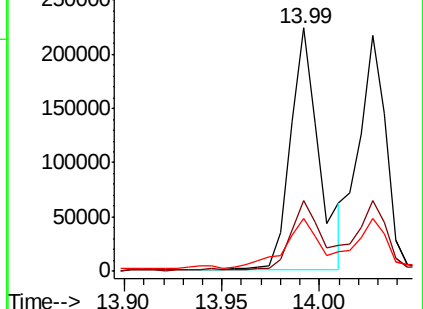
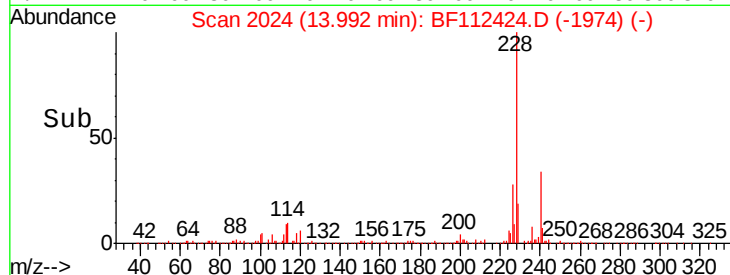
229 21.8 16.5 24.7



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 11.423 ng

RT: 14.03 min Scan# 2030

Delta R.T. -0.01 min

Lab File: BF112424.D

Acq: 6 Feb 2019 17:10

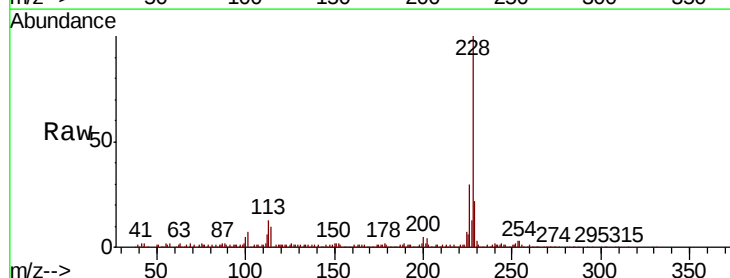
Tgt Ion:228 Resp: 209354

Ion Ratio Lower Upper

228 100

226 29.8 25.0 37.6

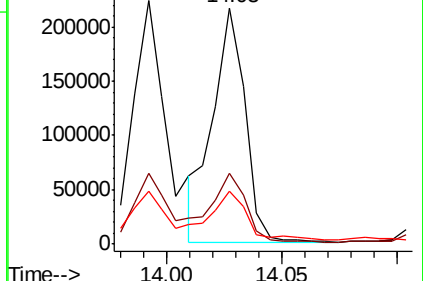
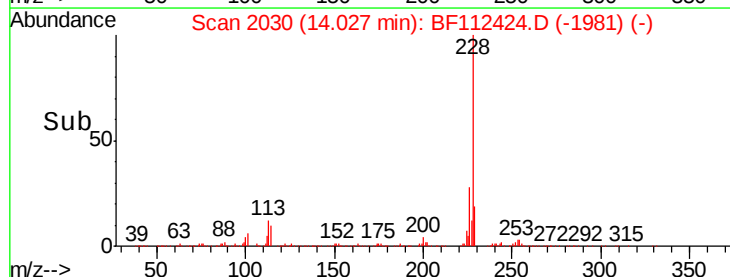
229 22.2 16.6 24.8

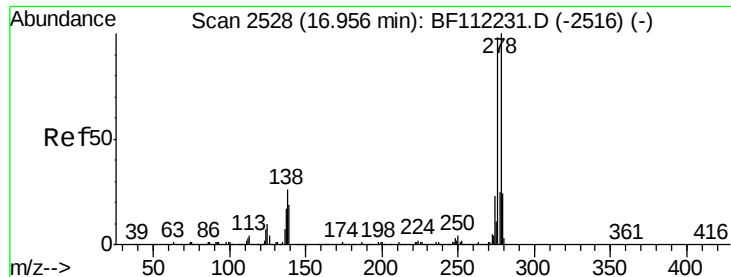


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

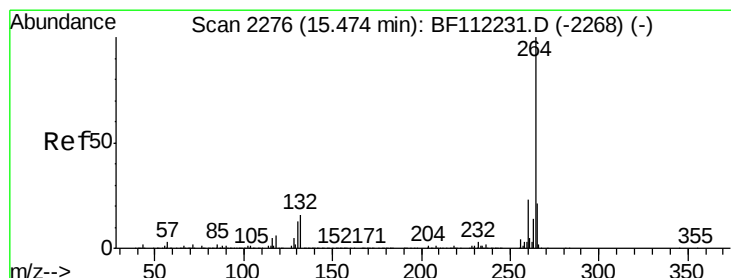
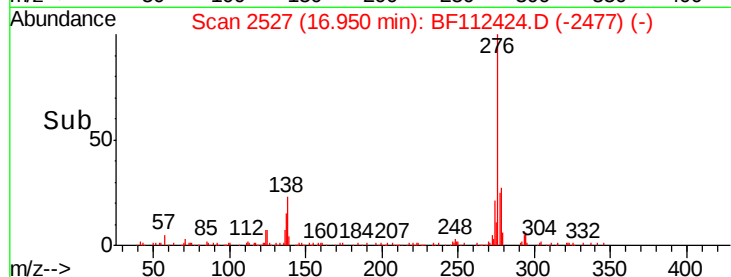
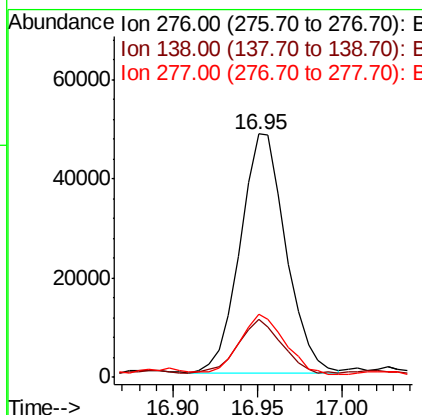
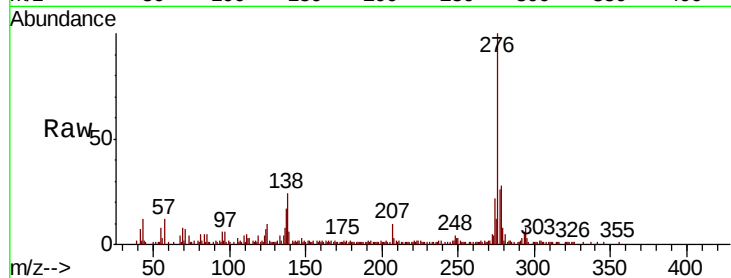




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 6.231 ng
 RT: 16.95 min Scan# 2527
 Delta R.T. -0.01 min
 Lab File: BF112424.D
 Acq: 6 Feb 2019 17:10

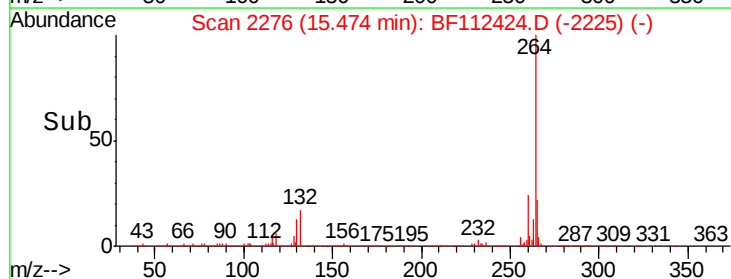
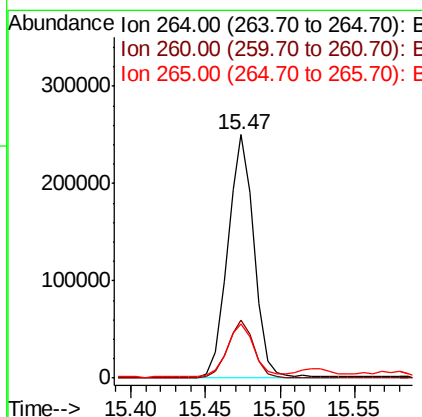
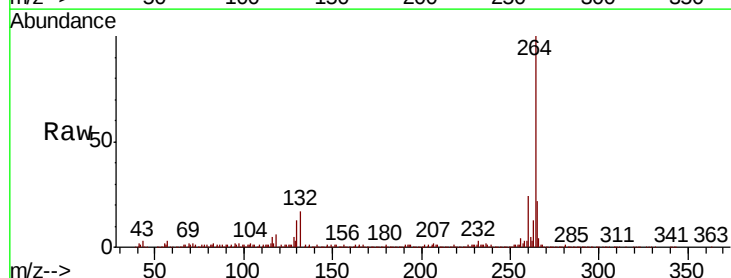
Instrument :
 BNA_F
 ClientSampleId :
 HR-6A

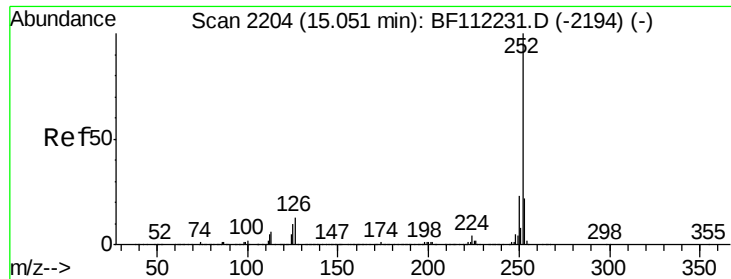
Tgt Ion	Ratio	Lower	Upper
276	100		
138	22.4	22.6	34.0#
277	24.2	20.3	30.5



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.47 min Scan# 2276
 Delta R.T. -0.00 min
 Lab File: BF112424.D
 Acq: 6 Feb 2019 17:10

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.2	27.2
265	22.0	17.0	25.4

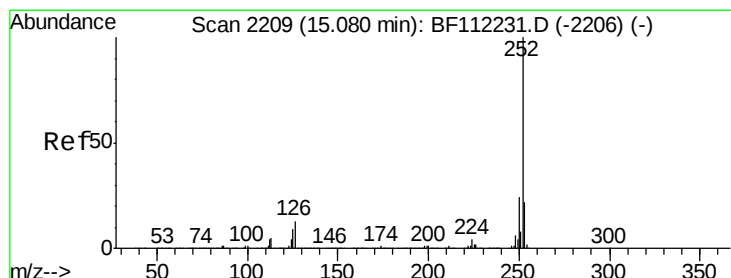
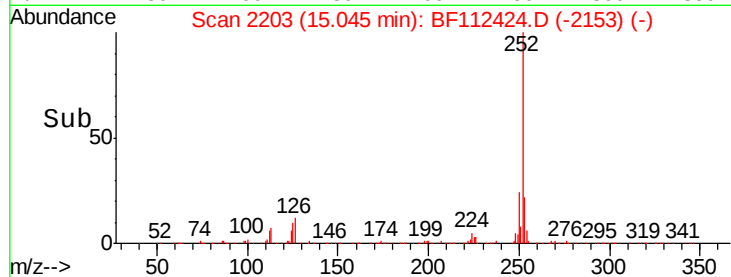
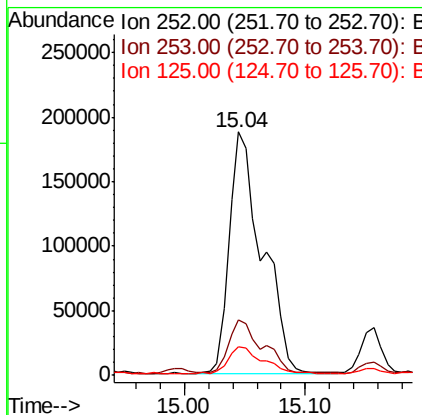
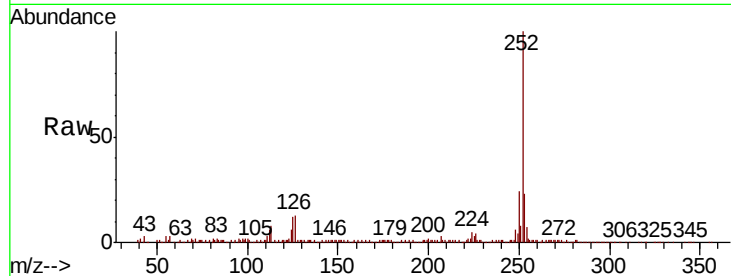




#88
Benzo(b)fluoranthene
Concen: 19.493 ng
RT: 15.04 min Scan# 2203
Delta R.T. -0.01 min
Lab File: BF112424.D
Acq: 6 Feb 2019 17:10

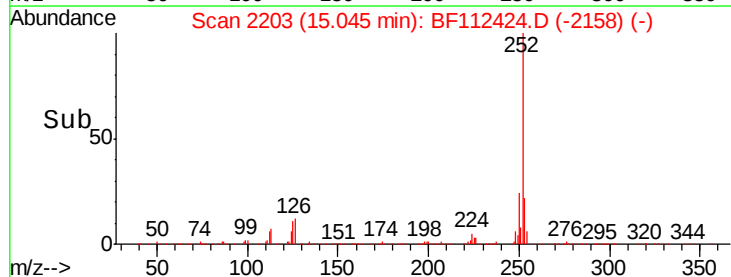
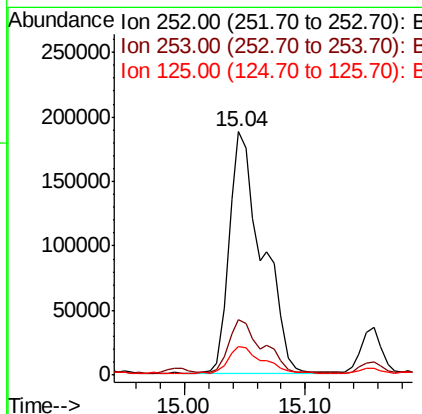
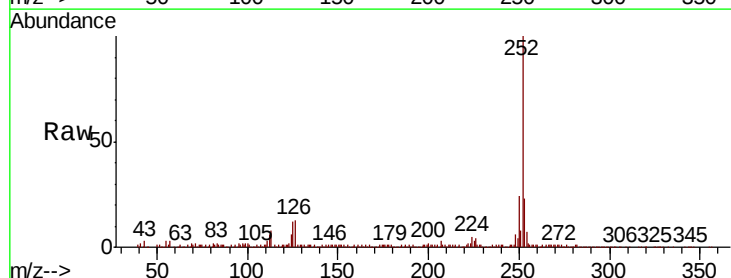
Instrument :
BNA_F
ClientSampleId :
HR-6A

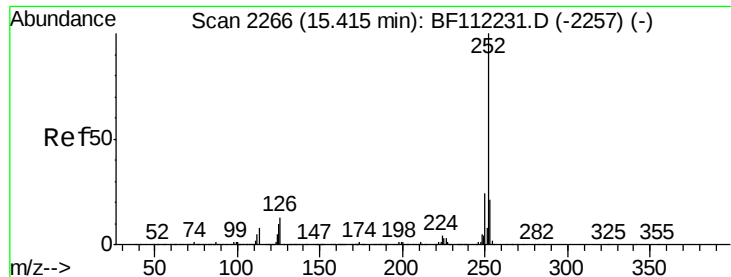
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.0	27.0
125	11.6	8.7	13.1



#89
Benzo(k)fluoranthene
Concen: 20.350 ng
RT: 15.04 min Scan# 2203
Delta R.T. -0.04 min
Lab File: BF112424.D
Acq: 6 Feb 2019 17:10

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.0	27.0
125	11.6	9.1	13.7





#90

Benzo(a)pyrene

Concen: 11.136 ng

RT: 15.41 min Scan# 2265

Delta R.T. -0.01 min

Lab File: BF112424.D

Acq: 6 Feb 2019 17:10

Instrument :

BNA_F

ClientSampleId :

HR-6A

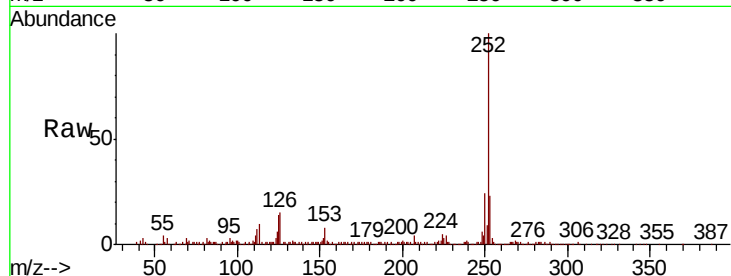
Tgt Ion:252 Resp: 183558

Ion Ratio Lower Upper

252 100

253 23.0 17.5 26.3

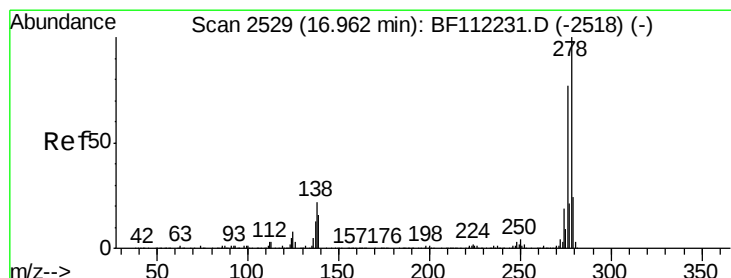
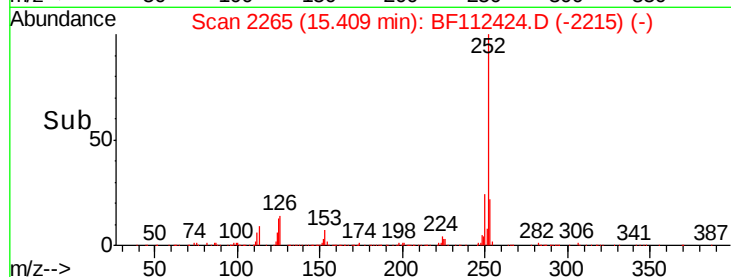
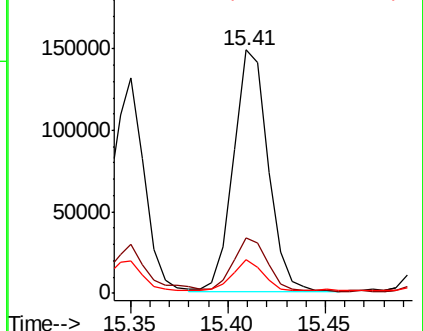
125 13.8 9.0 13.4#



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



#91

Dibenzo(a,h)anthracene

Concen: 2.003 ng

RT: 16.95 min Scan# 2527

Delta R.T. -0.01 min

Lab File: BF112424.D

Acq: 6 Feb 2019 17:10

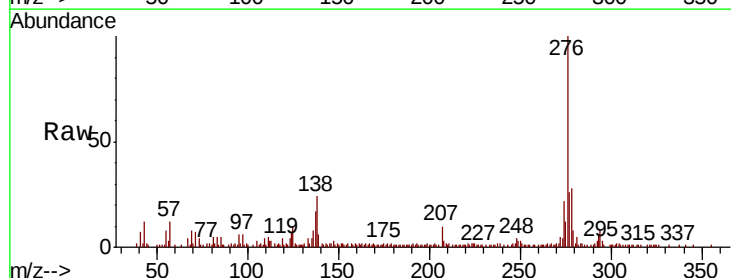
Tgt Ion:278 Resp: 26616

Ion Ratio Lower Upper

278 100

139 22.0 13.7 20.5#

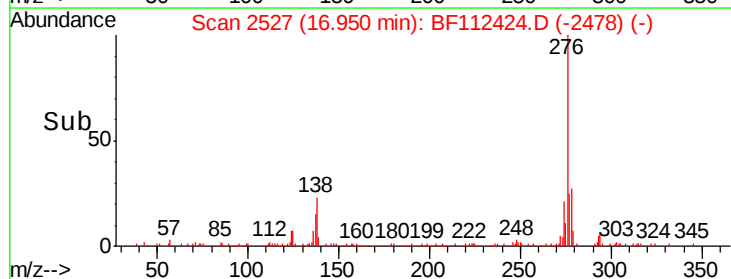
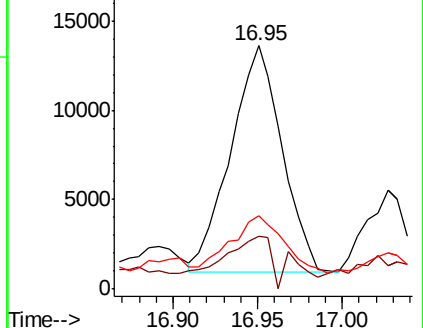
279 30.2 19.0 28.6#

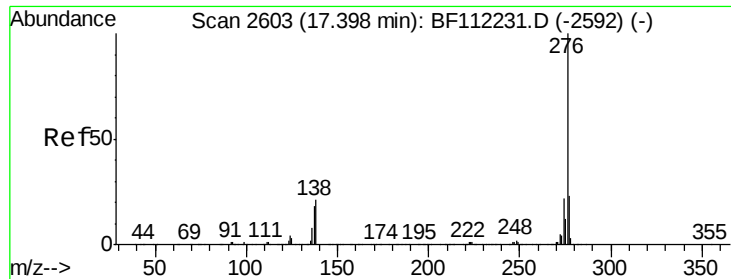


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92
 Benzo(g,h,i)perylene
 Concen: 7.462 ng
 RT: 17.40 min Scan# 2604
 Delta R.T. 0.01 min
 Lab File: BF112424.D
 Acq: 6 Feb 2019 17:10

Instrument :
 BNA_F
 ClientSampleId :
 HR-6A

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.4	29.0
138	21.3	19.1	28.7

