

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021419\
 Data File : BF112565.D
 Acq On : 14 Feb 2019 14:04
 Operator : JU/SJ
 Sample : K1349-05 2X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-021319-A

Quant Time: Feb 15 04:21:25 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	85097	20.00	ng	-0.02
21) Naphthalene-d8	8.11	136	310487	20.00	ng	-0.02
39) Acenaphthene-d10	9.86	164	136696	20.00	ng	-0.02
64) Phenanthrene-d10	11.36	188	252054	20.00	ng	-0.01
76) Chrysene-d12	14.00	240	255921	20.00	ng	0.00
87) Perylene-d12	15.49	264	206066	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.46	112	202526	50.55	ng	-0.02
7) Phenol-d6	6.47	99	247589	44.47	ng	-0.02
23) Nitrobenzene-d5	7.39	82	149043	27.66	ng	-0.02
42) 2,4,6-Tribromophenol	10.66	330	64616	40.61	ng	-0.02
45) 2-Fluorobiphenyl	9.18	172	289346	29.94	ng	-0.02
79) Terphenyl-d14	12.94	244	299777	22.06	ng	-0.01

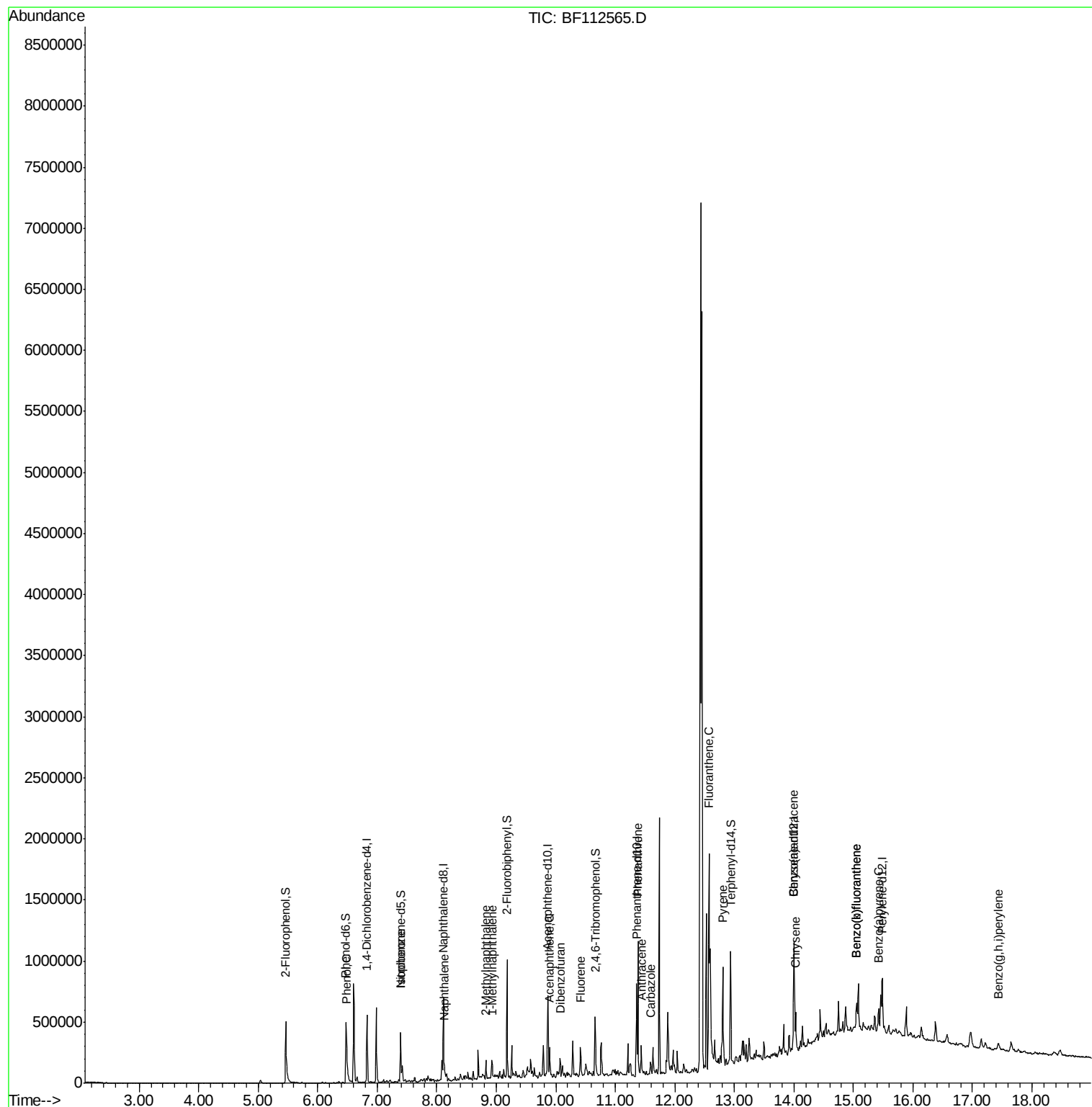
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.49	94	15820	2.590	ng	84
25) Isophorone	7.39	82	149043	17.631	ng	# 63
31) Naphthalene	8.13	128	43692	3.009	ng	98
37) 2-Methylnaphthalene	8.83	142	44850	4.512	ng	97
38) 1-Methylnaphthalene	8.92	142	32982	3.462	ng	# 94
52) Acenaphthene	9.90	154	45232	5.574	ng	98
55) Dibenzofuran	10.07	168	43566	3.513	ng	93
58) Fluorene	10.42	166	60956	6.569	ng	98
71) Phenanthrene	11.38	178	373189	28.479	ng	97
72) Anthracene	11.43	178	103114	7.900	ng	97
73) Carbazole	11.59	167	33265	2.584	ng	99
75) Fluoranthene	12.57	202	354731	25.239	ng	99
78) Pyrene	12.81	202	322218	18.185	ng	98
81) Benzo(a)anthracene	14.00	228	139348	9.262	ng	98
83) Chrysene	14.03	228	127215	8.859	ng	95
88) Benzo(b)fluoranthene	15.06	252	165333	13.416	ng	95
89) Benzo(k)fluoranthene	15.06	252	165333	14.006	ng	96
90) Benzo(a)pyrene	15.42	252	90564	8.167	ng	# 95
92) Benzo(a,h,i)perylene	17.44	276	40217	4.770	ng	95

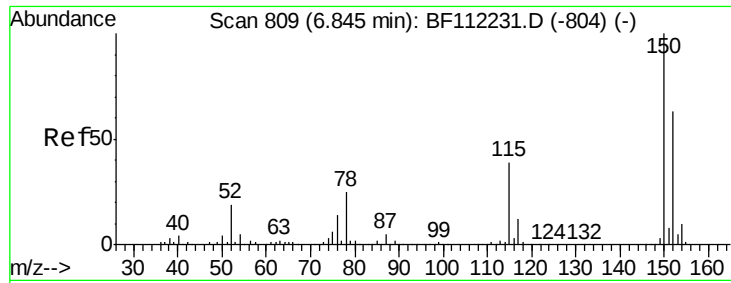
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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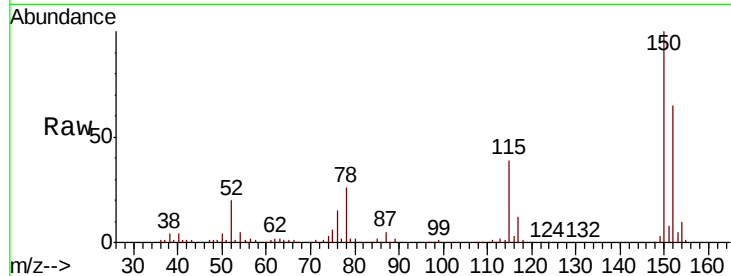


#1

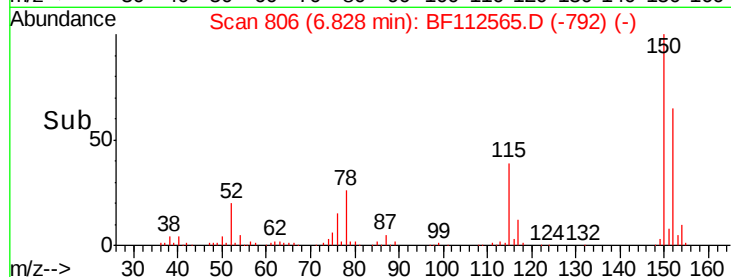
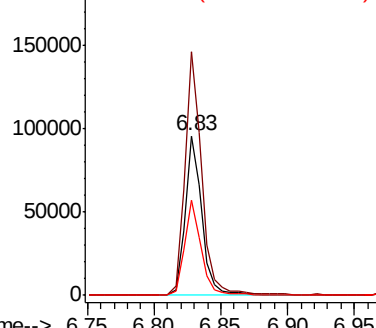
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.83 min Scan# 806
Delta R.T. -0.02 min
Lab File: BF112565.D
Acq: 14 Feb 2019 14:04

Instrument :
BNA_F
ClientSampleId :
OR-01-021319-A

Tot Ion:152 Resp: 85097
Ion Ratio Lower Upper
152 100
150 152.7 127.4 191.0
115 59.9 45.5 68.3



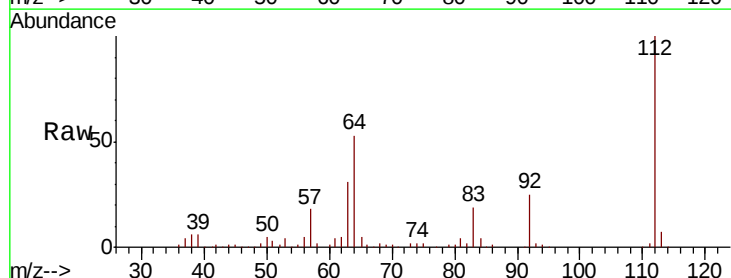
Abundance Ion 152.00 (151.70 to 152.70): E
200000 Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



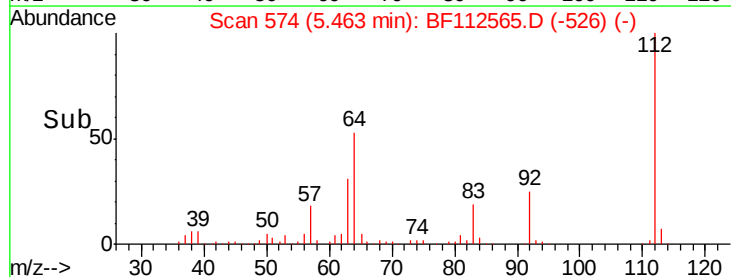
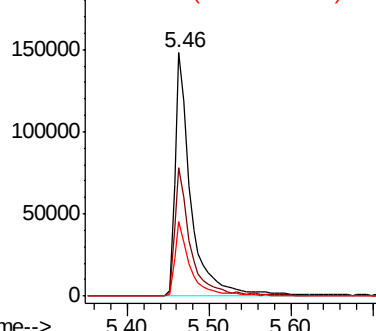
#5

2-Fluorophenol
Concen: 50.552 ng
RT: 5.46 min Scan# 574
Delta R.T. -0.02 min
Lab File: BF112565.D
Acq: 14 Feb 2019 14:04

Tgt Ion:112 Resp: 202526
Ion Ratio Lower Upper
112 100
64 52.9 45.7 68.5
63 30.7 23.6 35.4



Abundance Ion 112.00 (111.70 to 112.70): E
200000 Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 44.474 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.02 min

Lab File: BF112565.D

Acq: 14 Feb 2019 14:04

Instrument :

BNA_F

ClientSampleId :

OR-01-021319-A

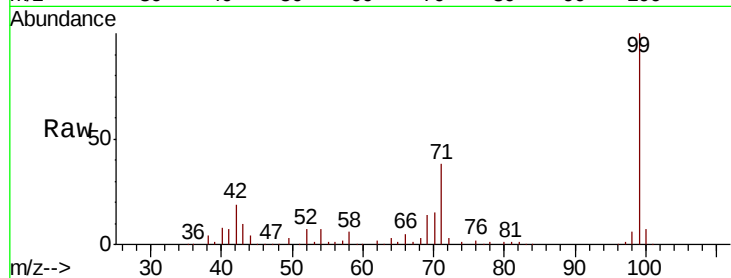
Tot Ion: 99 Resp: 247589

Ion Ratio Lower Upper

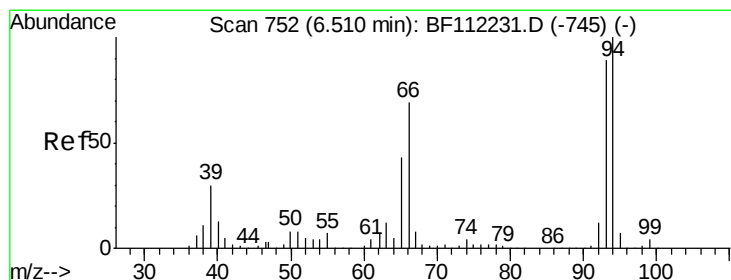
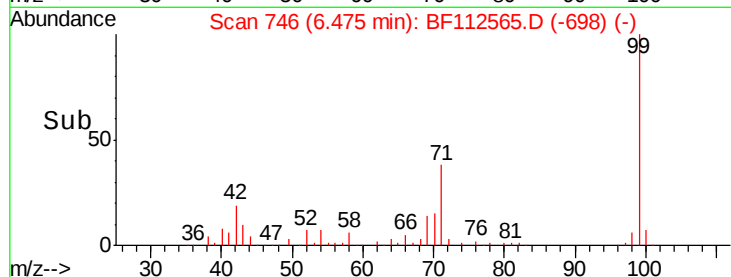
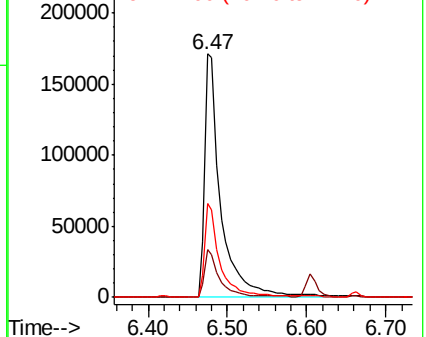
99 100

42 19.5 15.1 22.7

71 38.5 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



#10

Phenol

Concen: 2.590 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.02 min

Lab File: BF112565.D

Acq: 14 Feb 2019 14:04

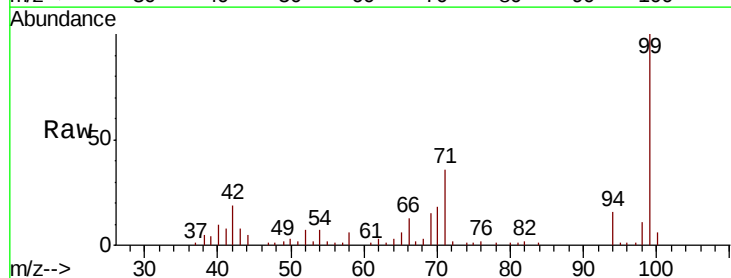
Tgt Ion: 94 Resp: 15820

Ion Ratio Lower Upper

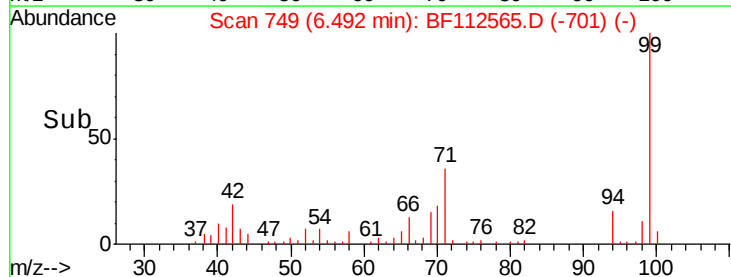
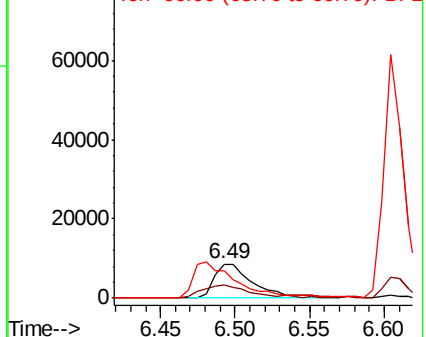
94 100

65 38.1 20.3 60.3

66 81.1 42.4 82.4



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1

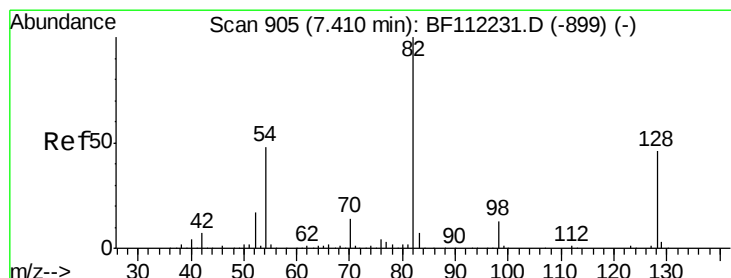
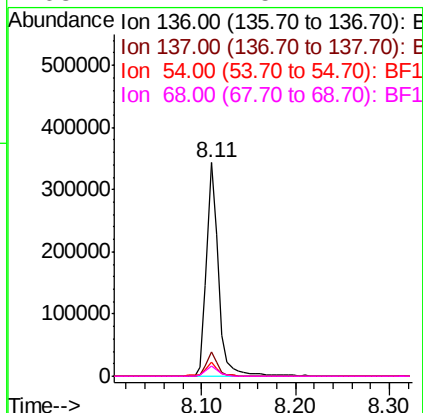
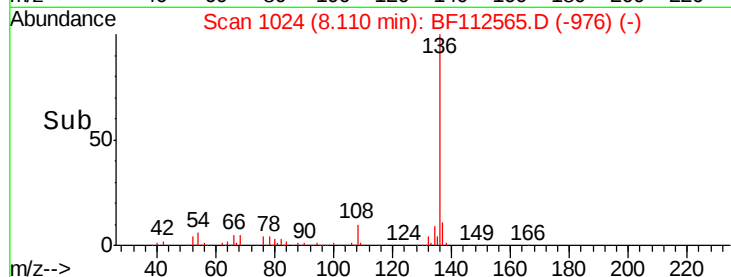
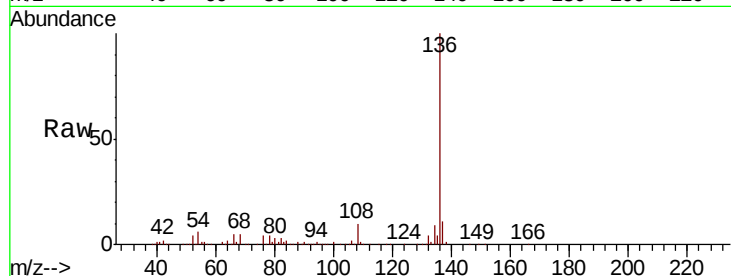




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.11 min Scan# 1024
Delta R.T. -0.02 min
Lab File: BF112565.D
Acq: 14 Feb 2019 14:04

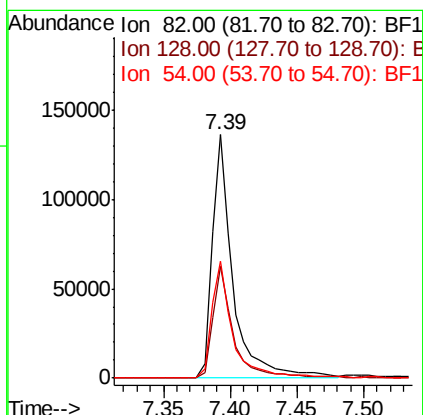
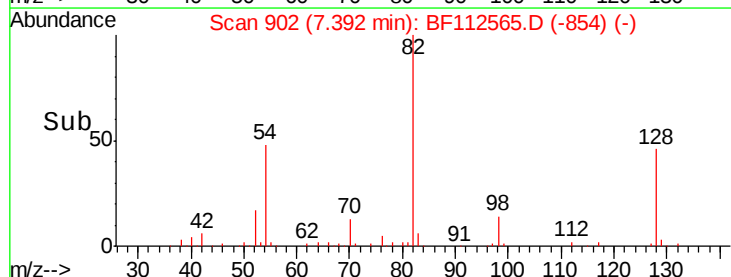
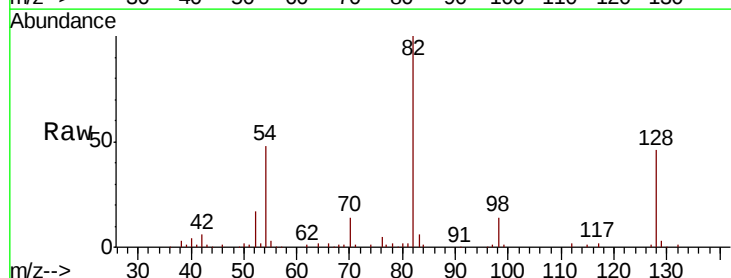
Instrument :
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ClientSampleId :
OR-01-021319-A

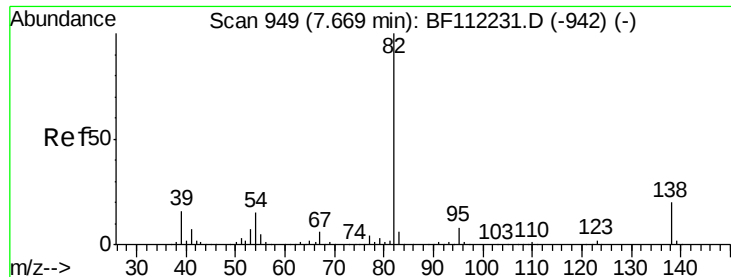
Tot Ion:136	Resp:	310487
Ion Ratio	Lower	Upper
136	100	
137	11.2	9.1 13.7
54	6.4	5.9 8.9
68	4.7	5.1 7.7#



#23
Nitrobenzene-d5
Concen: 27.659 ng
RT: 7.39 min Scan# 902
Delta R.T. -0.02 min
Lab File: BF112565.D
Acq: 14 Feb 2019 14:04

Tgt Ion: 82	Resp:	149043
Ion Ratio	Lower	Upper
82	100	
128	45.8	37.8 56.8
54	48.1	39.7 59.5





#25

Isophorone

Concen: 17.631 ng

RT: 7.39 min Scan# 902

Delta R.T. -0.28 min

Lab File: BF112565.D

Acq: 14 Feb 2019 14:04

Instrument :

BNA_F

ClientSampleId :

OR-01-021319-A

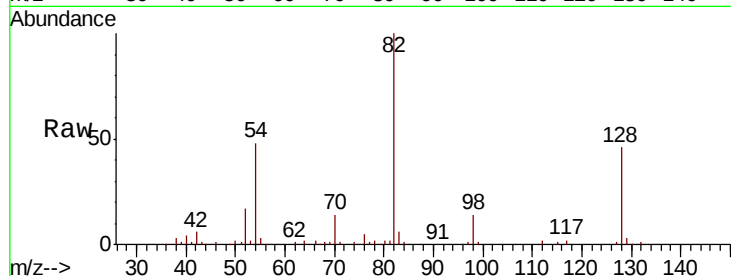
Tot Ion: 82 Resp: 149043

Ion Ratio Lower Upper

82 100

95 0.0 5.7 8.5#

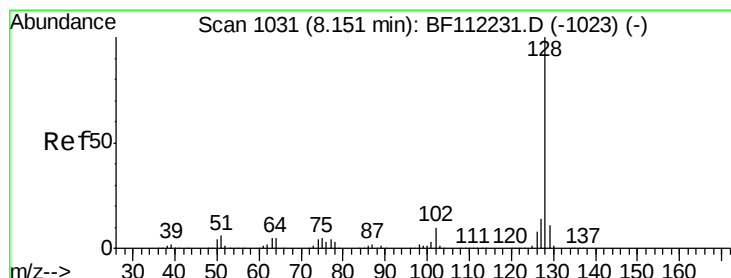
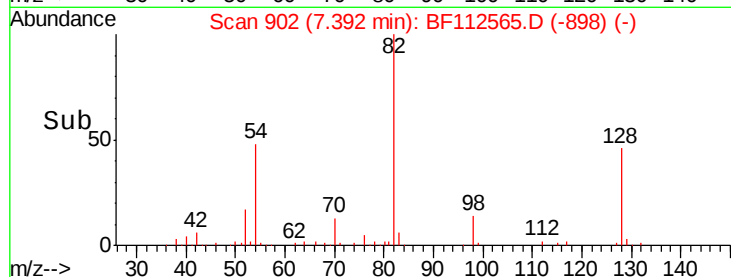
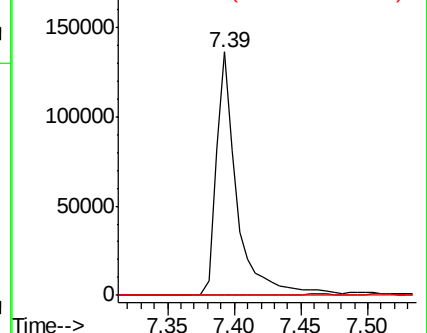
138 0.0 15.4 23.0#



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



#31

Naphthalene

Concen: 3.009 ng

RT: 8.13 min Scan# 1028

Delta R.T. -0.02 min

Lab File: BF112565.D

Acq: 14 Feb 2019 14:04

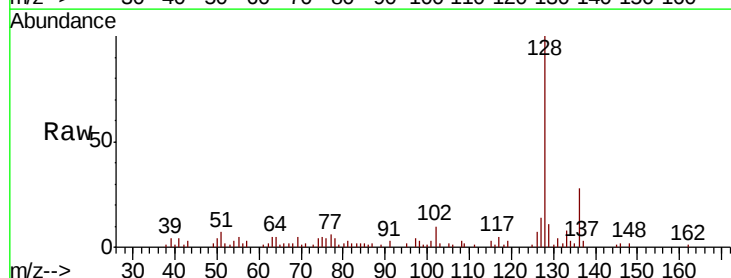
Tgt Ion:128 Resp: 43692

Ion Ratio Lower Upper

128 100

129 11.2 9.6 14.4

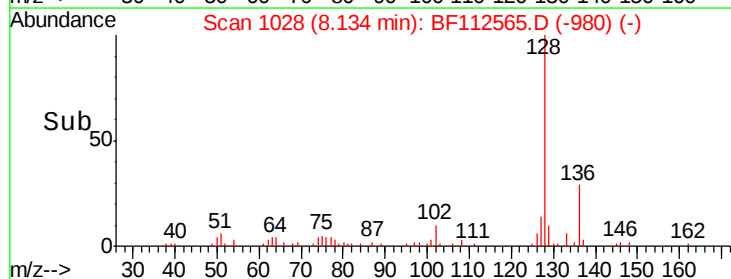
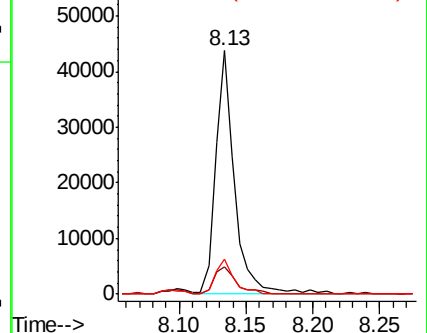
127 14.4 11.1 16.7

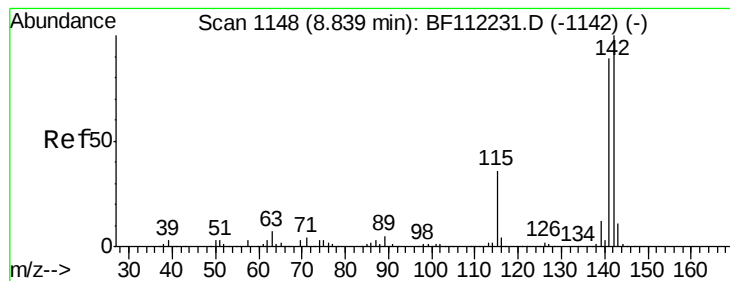


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

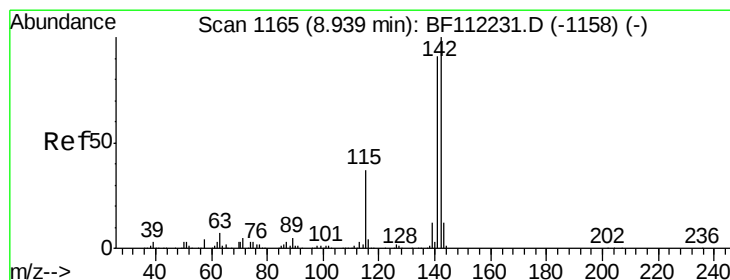
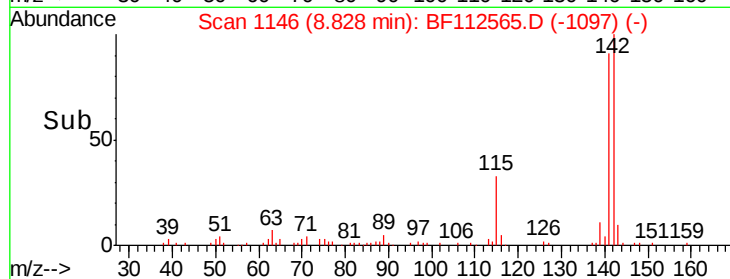
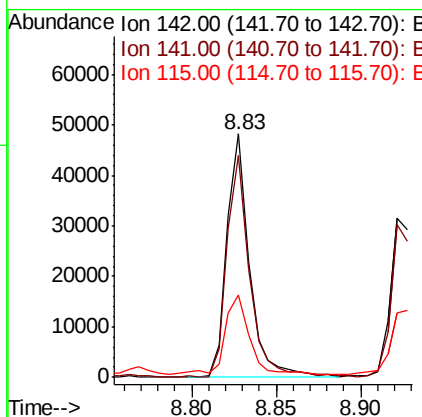
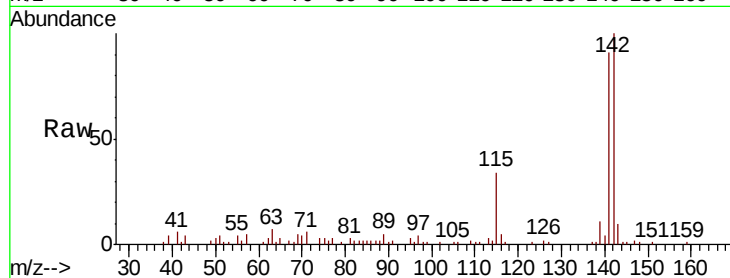




#37
 2-Methylnaphthalene
 Concen: 4.512 ng
 RT: 8.83 min Scan# 1146
 Delta R.T. -0.01 min
 Lab File: BF112565.D
 Acq: 14 Feb 2019 14:04

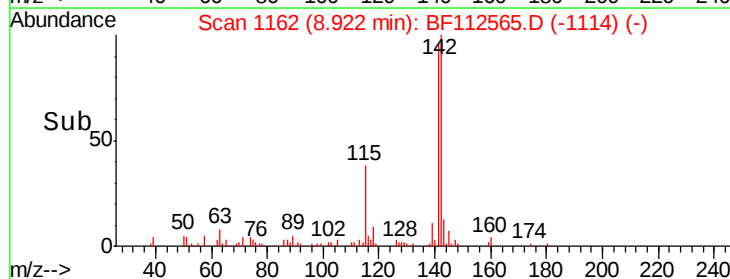
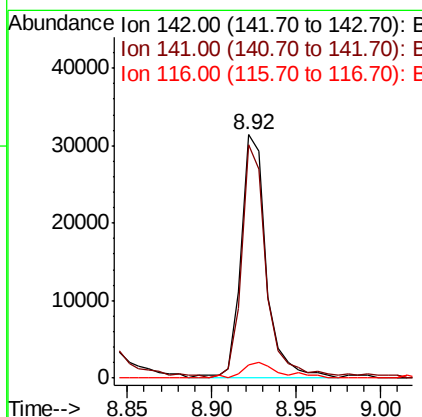
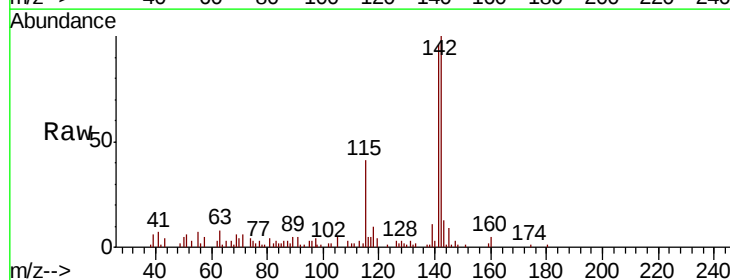
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 OR-01-021319-A

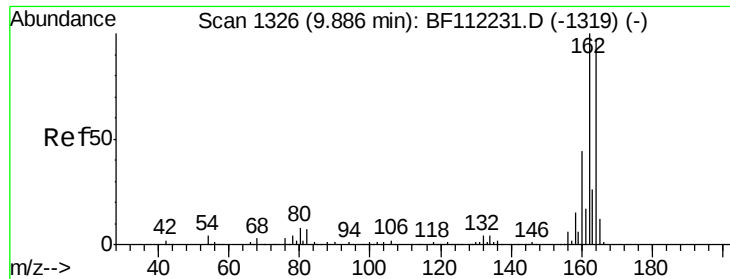
Tot Ion:142 Resp: 44850
 Ion Ratio Lower Upper
 142 100
 141 91.3 70.9 106.3
 115 33.7 24.9 37.3



#38
 1-Methylnaphthalene
 Concen: 3.462 ng
 RT: 8.92 min Scan# 1162
 Delta R.T. -0.02 min
 Lab File: BF112565.D
 Acq: 14 Feb 2019 14:04

Tgt Ion:142 Resp: 32982
 Ion Ratio Lower Upper
 142 100
 141 96.0 72.6 108.8
 116 5.2 2.8 4.2#

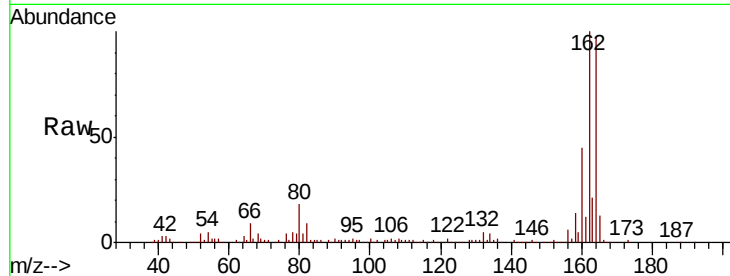




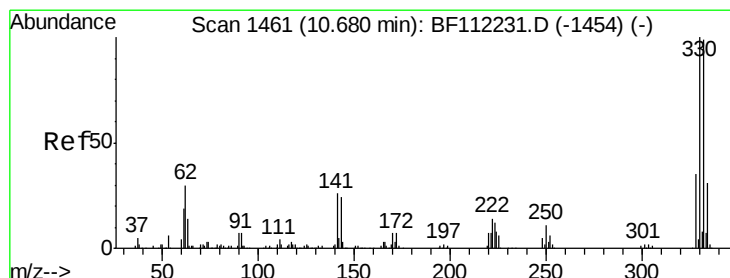
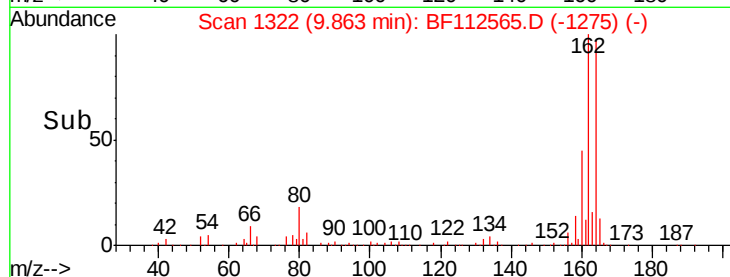
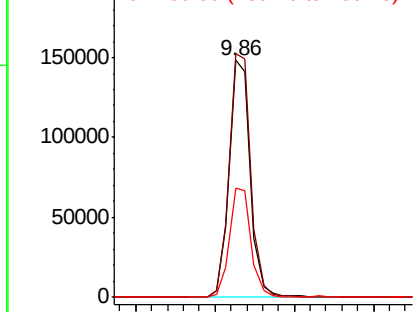
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.86 min Scan# 1322
 Delta R.T. -0.02 min
 Lab File: BF112565.D
 Acq: 14 Feb 2019 14:04

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-021319-A

Tot Ion	Ratio	Lower	Upper
164	100		
162	102.8	82.2	123.4
160	46.3	36.2	54.4

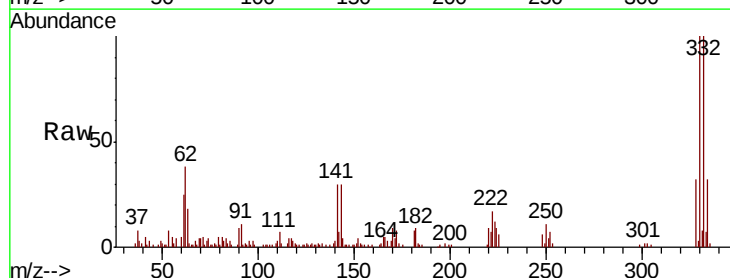


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

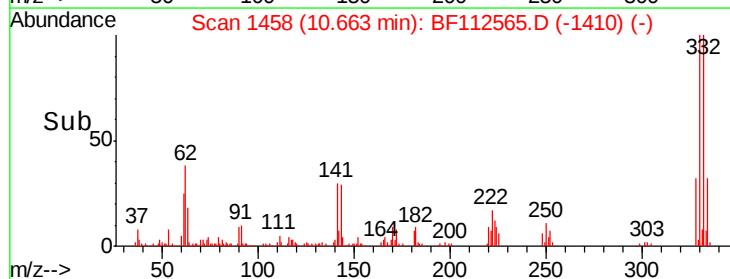
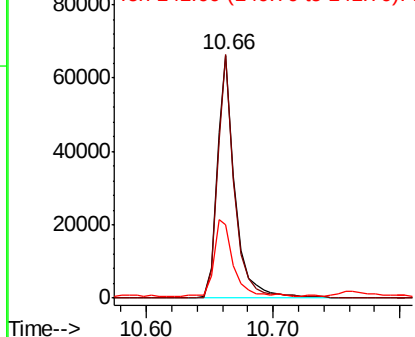


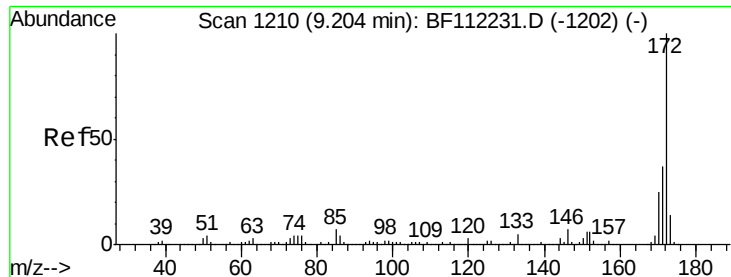
#42
 2,4,6-Tribromophenol
 Concen: 40.611 ng
 RT: 10.66 min Scan# 1458
 Delta R.T. -0.02 min
 Lab File: BF112565.D
 Acq: 14 Feb 2019 14:04

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.1	76.6	114.8
141	34.7	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

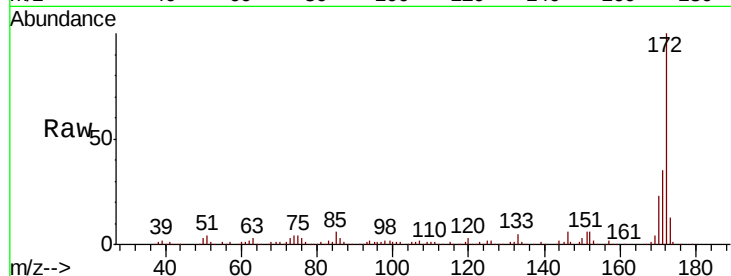




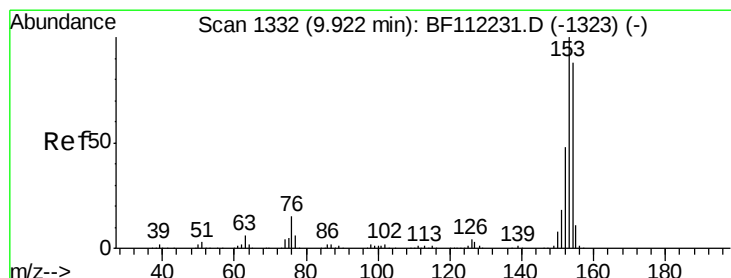
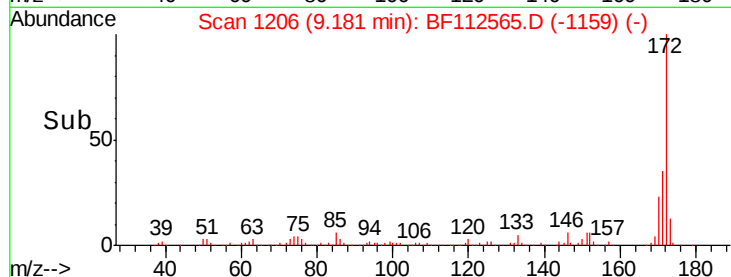
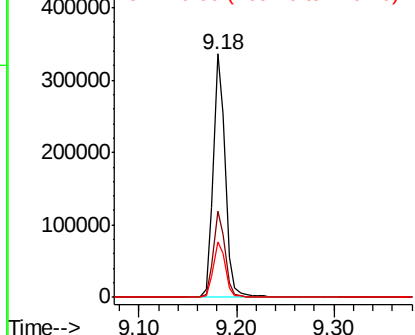
#45
2-Fluorobiphenyl
Concen: 29.937 ng
RT: 9.18 min Scan# 1206
Delta R.T. -0.02 min
Lab File: BF112565.D
Acq: 14 Feb 2019 14:04

Instrument :
BNA_F
ClientSampleId :
OR-01-021319-A

Tot Ion:172 Resp: 289346
Ion Ratio Lower Upper
172 100
171 35.3 30.5 45.7
170 22.9 20.2 30.4

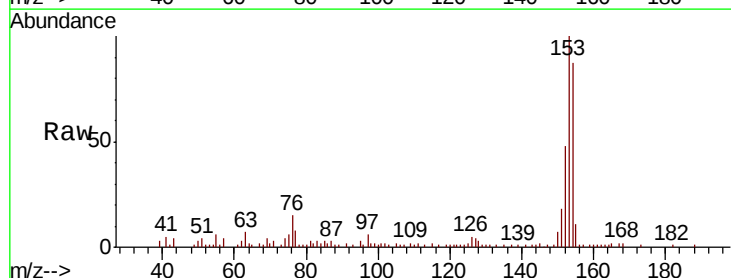


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

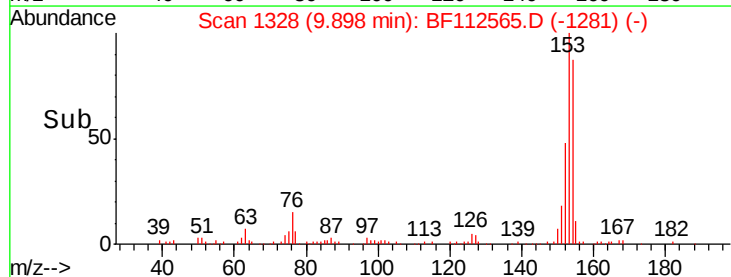
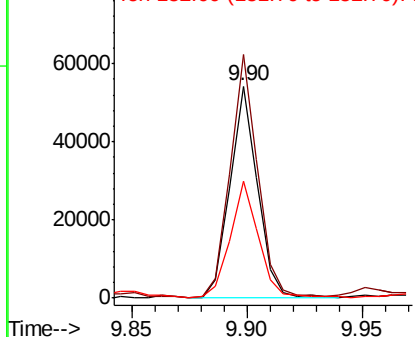


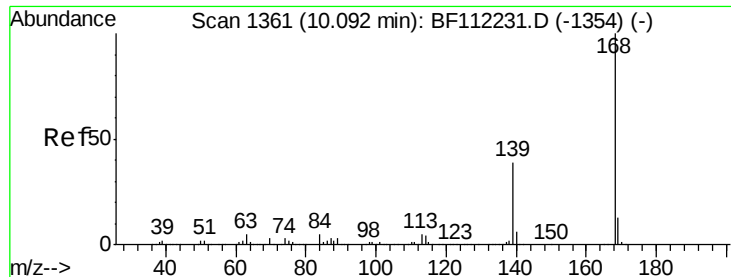
#52
Acenaphthene
Concen: 5.574 ng
RT: 9.90 min Scan# 1328
Delta R.T. -0.02 min
Lab File: BF112565.D
Acq: 14 Feb 2019 14:04

Tgt Ion:154 Resp: 45232
Ion Ratio Lower Upper
154 100
153 115.0 89.8 134.6
152 55.0 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

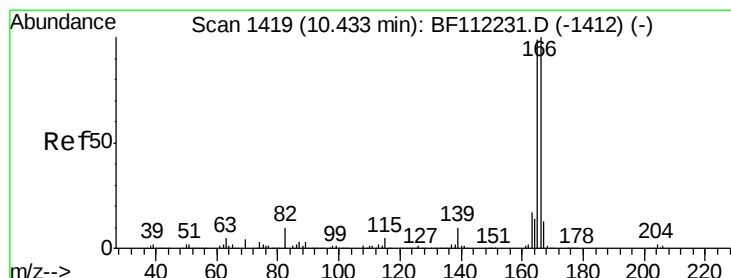
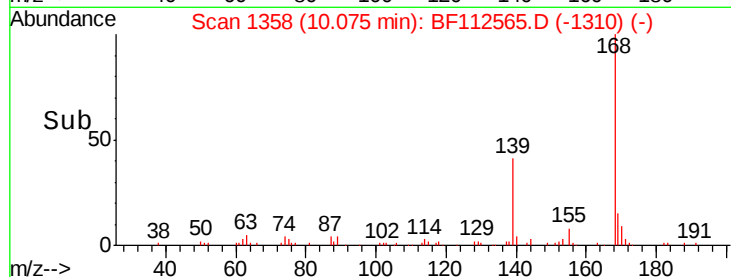
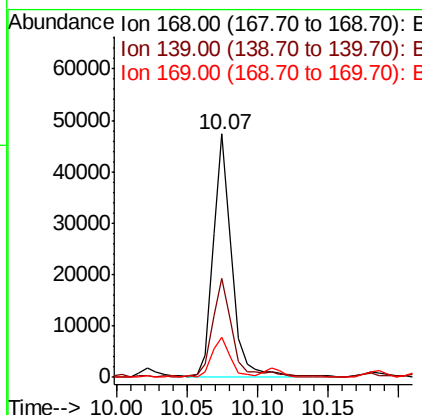
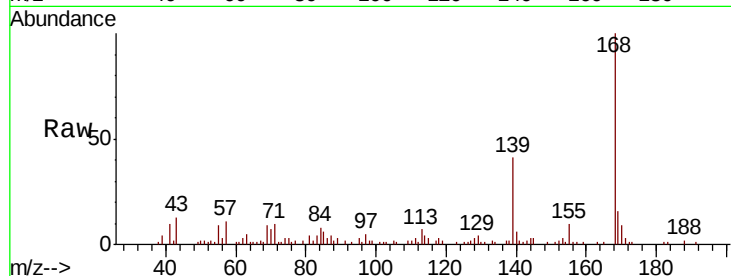




#55
Dibenzofuran
Concen: 3.513 ng
RT: 10.07 min Scan# 1358
Delta R.T. -0.02 min
Lab File: BF112565.D
Acq: 14 Feb 2019 14:04

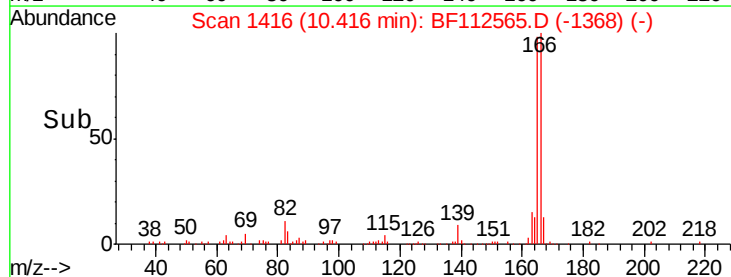
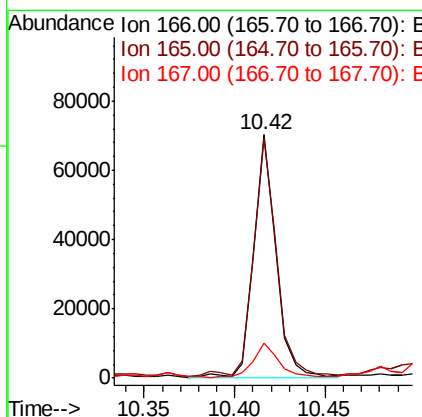
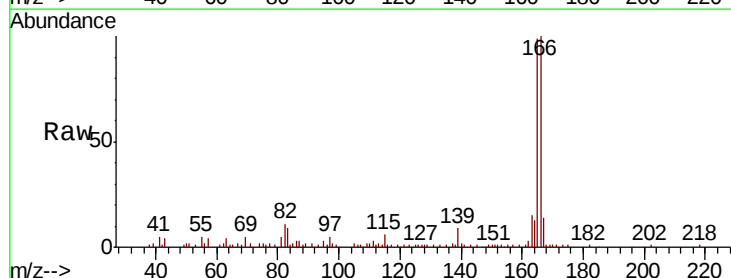
Instrument :
BNA_F
ClientSampleId :
OR-01-021319-A

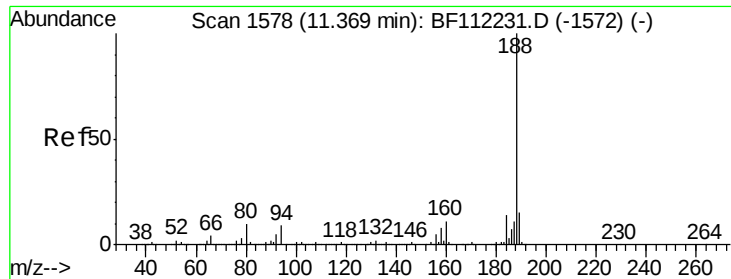
Tot Ion:168 Resp: 43566
Ion Ratio Lower Upper
168 100
139 40.7 29.2 43.8
169 16.5 11.4 17.0



#58
Fluorene
Concen: 6.569 ng
RT: 10.42 min Scan# 1416
Delta R.T. -0.02 min
Lab File: BF112565.D
Acq: 14 Feb 2019 14:04

Tgt Ion:166 Resp: 60956
Ion Ratio Lower Upper
166 100
165 98.7 77.1 115.7
167 14.1 11.3 16.9





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.36 min Scan# 1576

Delta R.T. -0.01 min

Lab File: BF112565.D

Acq: 14 Feb 2019 14:04

Instrument :

BNA_F

ClientSampleId :

OR-01-021319-A

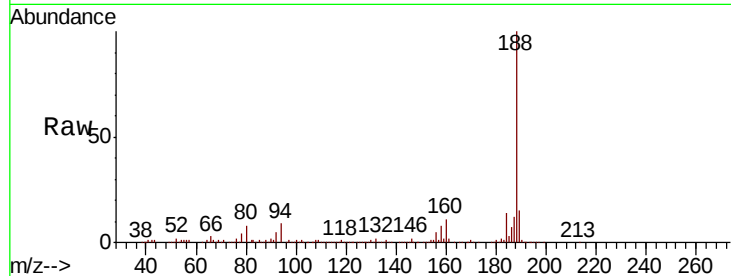
Tot Ion:188 Resp: 252054

Ion Ratio Lower Upper

188 100

94 8.6 8.2 12.2

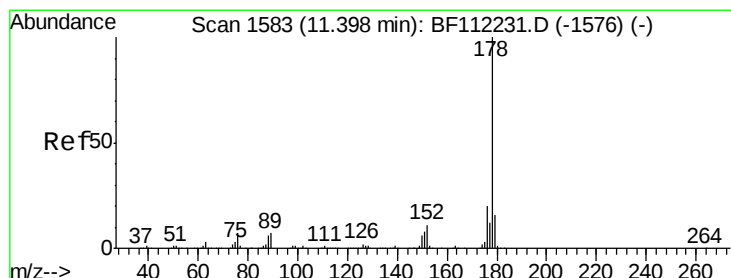
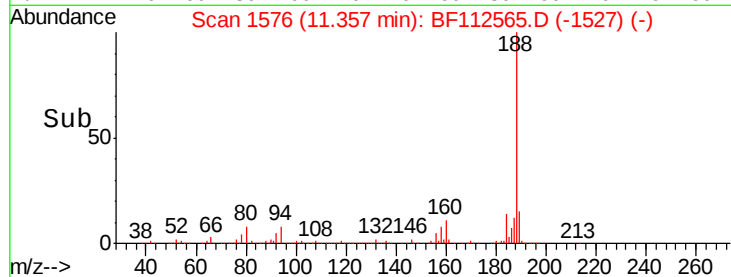
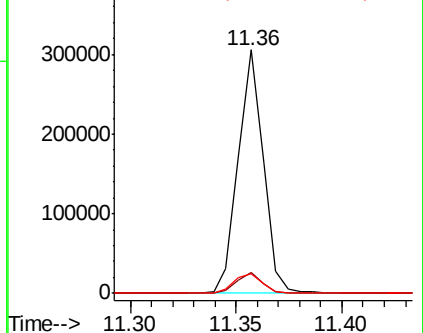
80 8.1 8.9 13.3#



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: 28.479 ng

RT: 11.38 min Scan# 1580

Delta R.T. -0.02 min

Lab File: BF112565.D

Acq: 14 Feb 2019 14:04

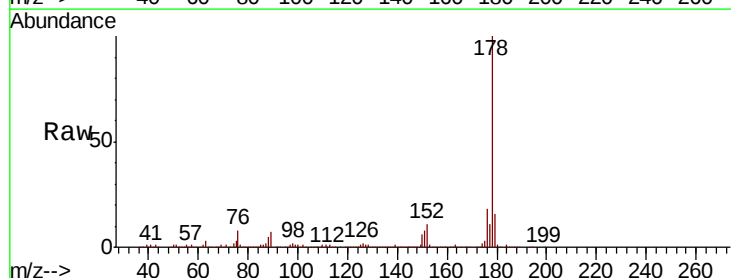
Tgt Ion:178 Resp: 373189

Ion Ratio Lower Upper

178 100

176 18.3 16.3 24.5

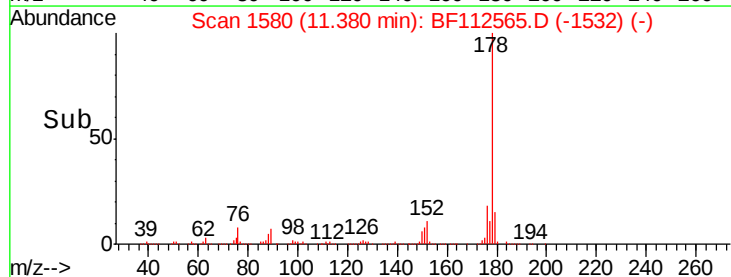
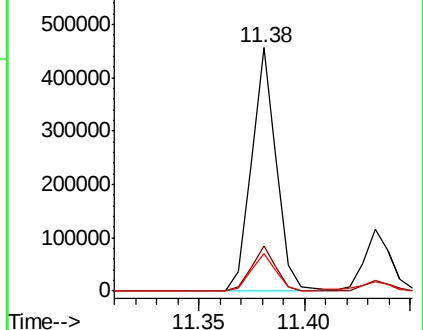
179 15.6 13.0 19.4

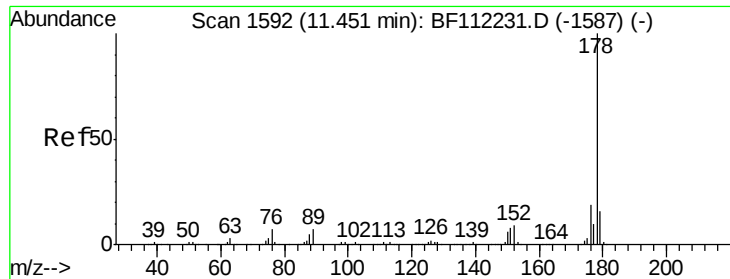


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 7.900 ng

RT: 11.43 min Scan# 1589

Delta R.T. -0.02 min

Lab File: BF112565.D

Acq: 14 Feb 2019 14:04

Instrument :

BNA_F

ClientSampleId :

OR-01-021319-A

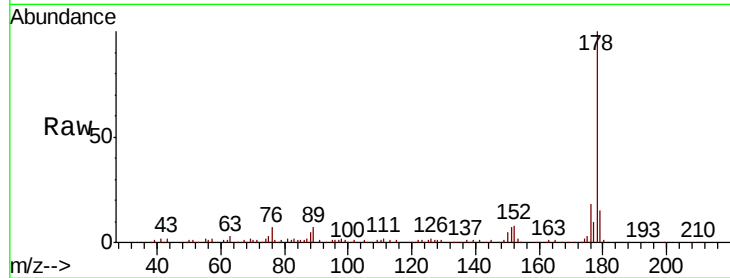
Tot Ion:178 Resp: 103114

Ion Ratio Lower Upper

178 100

176 17.8 15.5 23.3

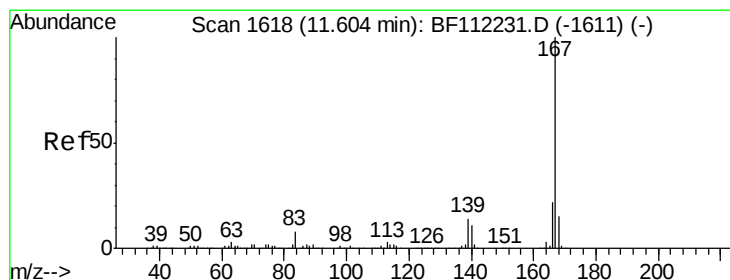
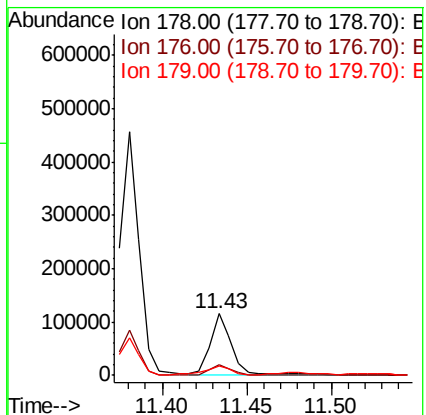
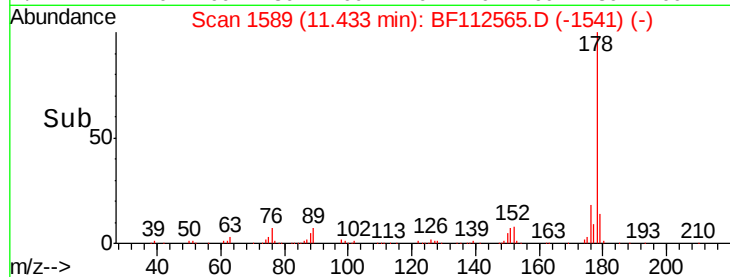
179 14.8 12.8 19.2



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



#73

Carbazole

Concen: 2.584 ng

RT: 11.59 min Scan# 1616

Delta R.T. -0.01 min

Lab File: BF112565.D

Acq: 14 Feb 2019 14:04

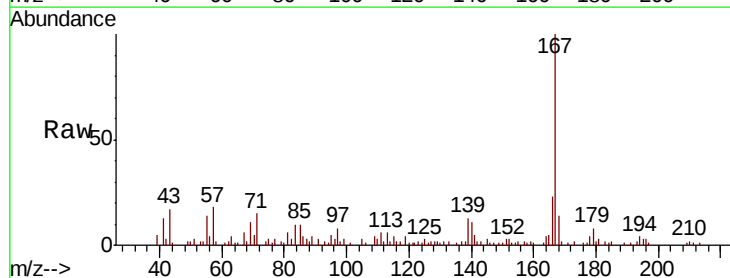
Tgt Ion:167 Resp: 33265

Ion Ratio Lower Upper

167 100

166 23.0 17.9 26.9

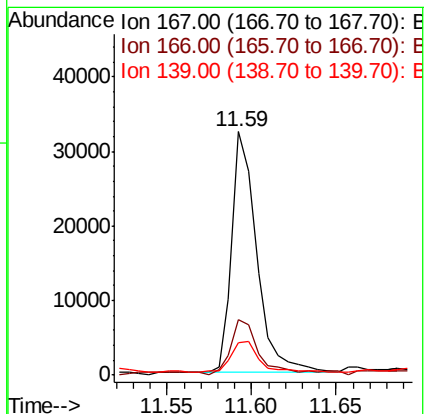
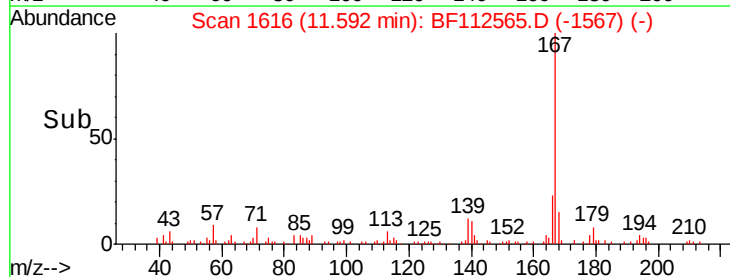
139 13.3 10.2 15.2

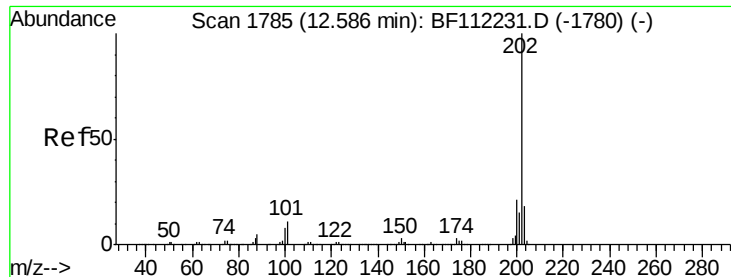


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 25.239 ng

RT: 12.57 min Scan# 1783

Delta R.T. -0.01 min

Lab File: BF112565.D

Acq: 14 Feb 2019 14:04

Instrument :

BNA_F

ClientSampleId :

OR-01-021319-A

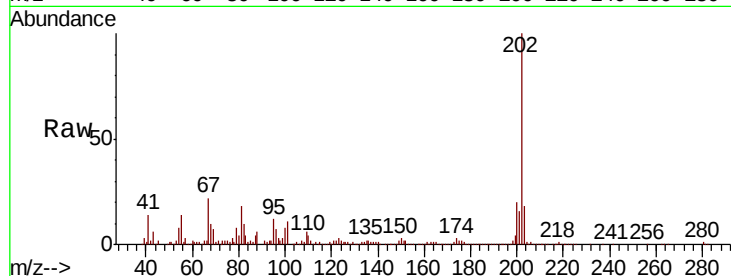
Tot Ion:202 Resp: 354731

Ion Ratio Lower Upper

202 100

101 11.4 0.0 31.8

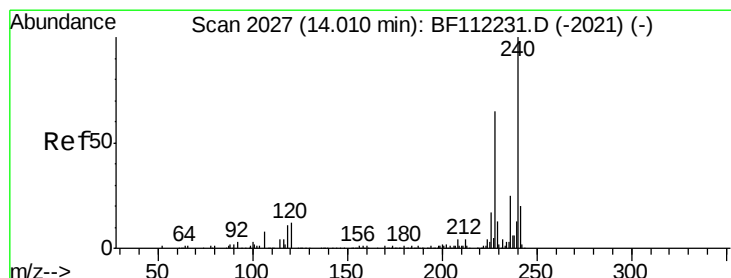
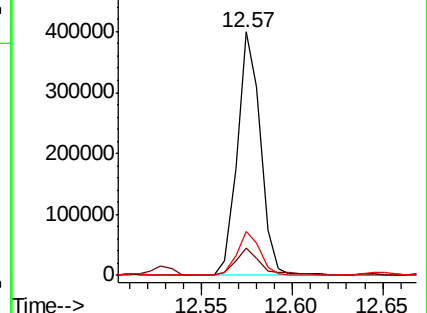
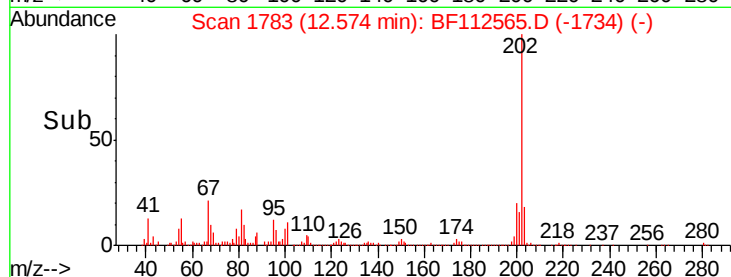
203 18.0 0.0 38.4



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: BF112565.D

Acq: 14 Feb 2019 14:04

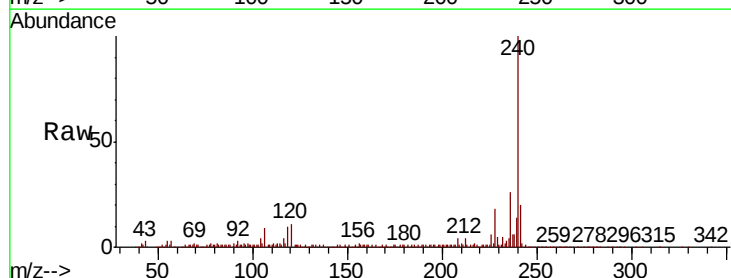
Tgt Ion:240 Resp: 255921

Ion Ratio Lower Upper

240 100

120 11.3 9.0 13.6

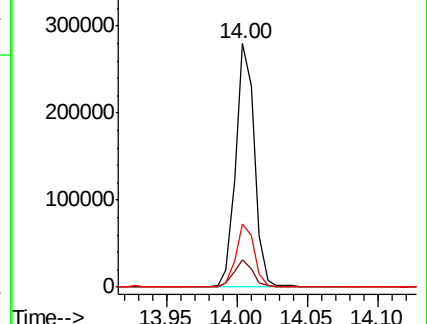
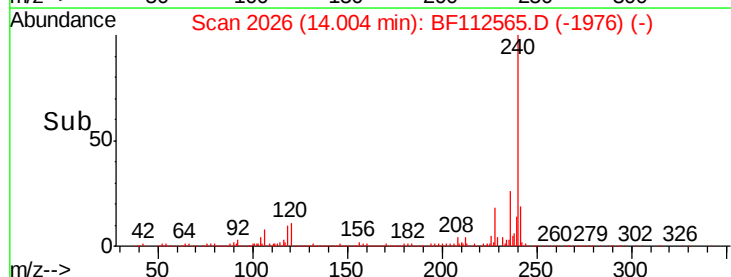
236 25.8 20.7 31.1

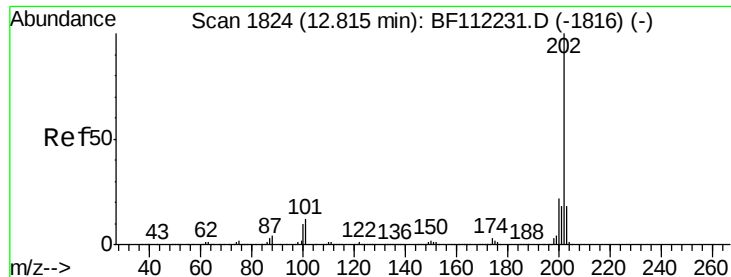


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

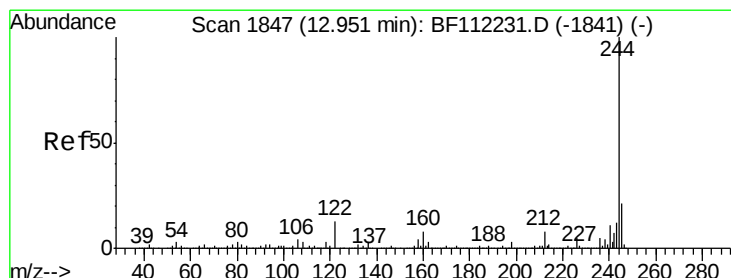
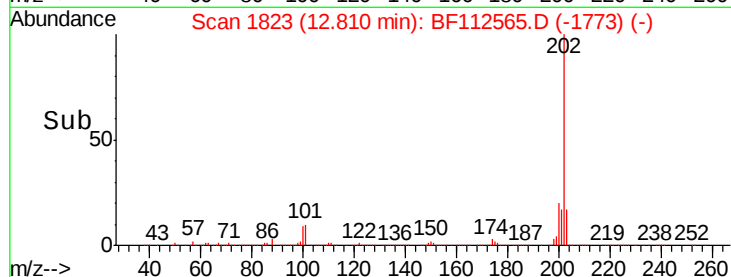
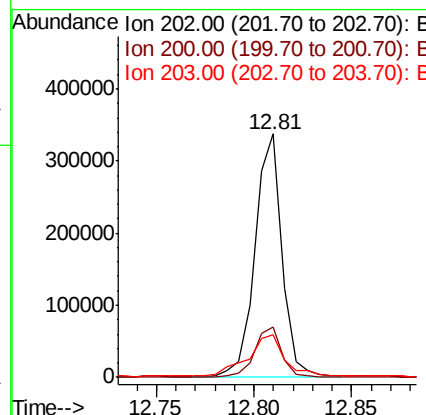
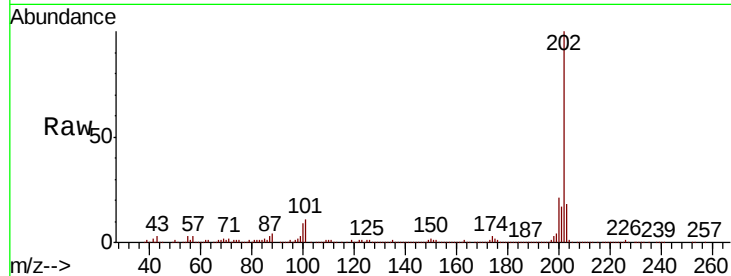




#78
Pvrene
Concen: 18.185 ng
RT: 12.81 min Scan# 1823
Delta R.T. -0.01 min
Lab File: BF112565.D
Acq: 14 Feb 2019 14:04

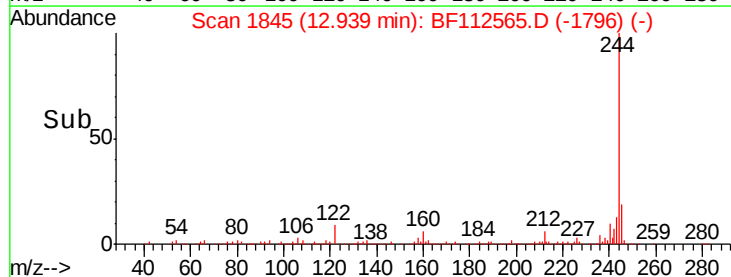
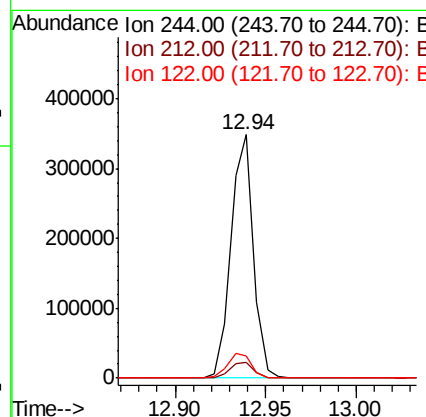
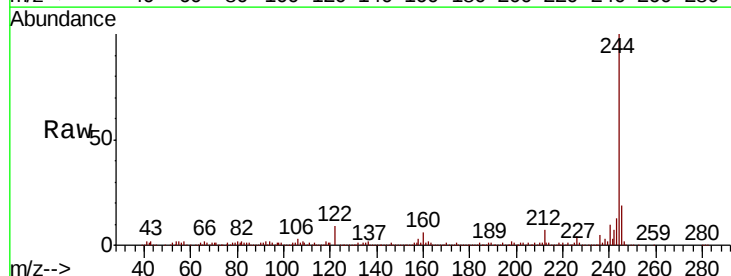
Instrument :
BNA_F
ClientSampleId :
OR-01-021319-A

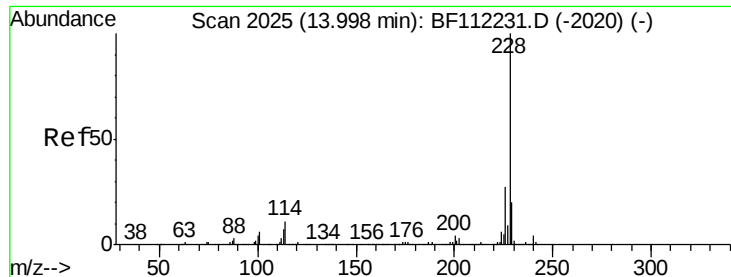
Tot Ion:202 Resp: 322218
Ion Ratio Lower Upper
202 100
200 20.6 17.7 26.5
203 17.6 14.6 22.0



#79
Terphenyl-d14
Concen: 22.062 ng
RT: 12.94 min Scan# 1845
Delta R.T. -0.01 min
Lab File: BF112565.D
Acq: 14 Feb 2019 14:04

Tgt Ion:244 Resp: 299777
Ion Ratio Lower Upper
244 100
212 6.6 5.9 8.9
122 9.3 9.8 14.6#





#81

Benzo(a)anthracene

Concen: 9.262 ng

RT: 14.00 min Scan# 2025

Delta R.T. 0.00 min

Lab File: BF112565.D

Acq: 14 Feb 2019 14:04

Instrument :

BNA_F

ClientSampleId :

OR-01-021319-A

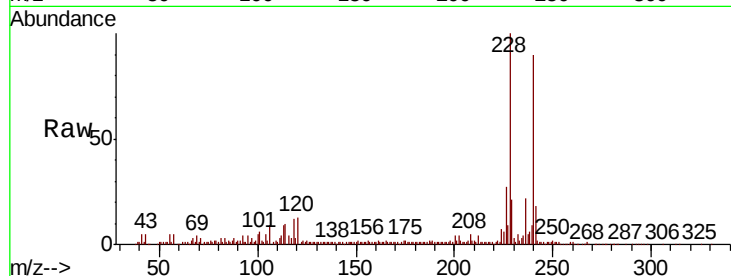
Tot Ion:228 Resp: 139348

Ion Ratio Lower Upper

228 100

226 26.6 22.6 34.0

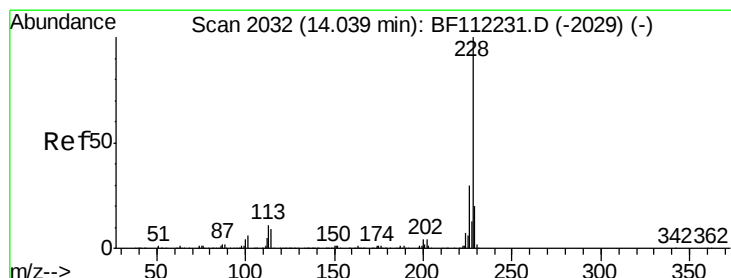
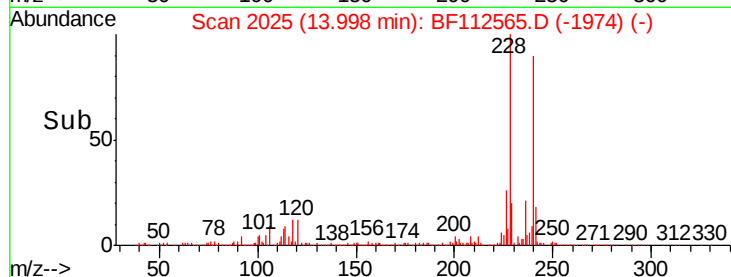
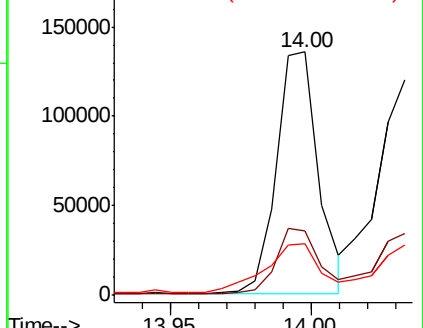
229 21.1 16.5 24.7



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: 8.859 ng

RT: 14.03 min Scan# 2031

Delta R.T. -0.01 min

Lab File: BF112565.D

Acq: 14 Feb 2019 14:04

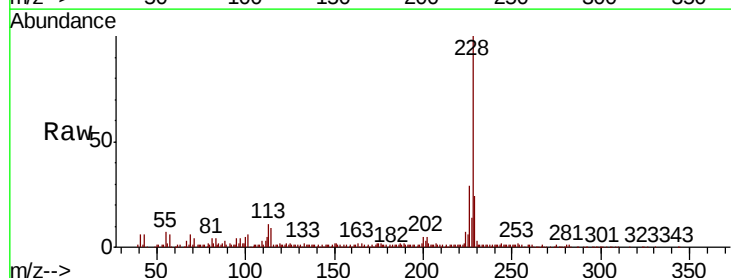
Tgt Ion:228 Resp: 127215

Ion Ratio Lower Upper

228 100

226 28.6 25.0 37.6

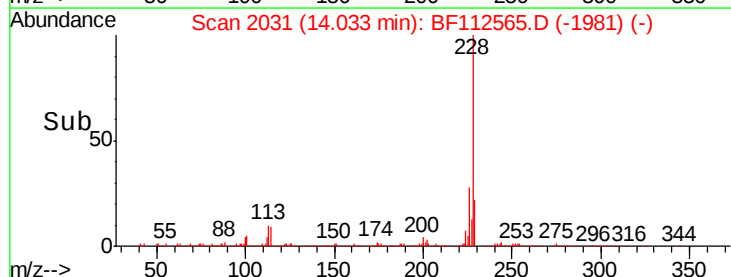
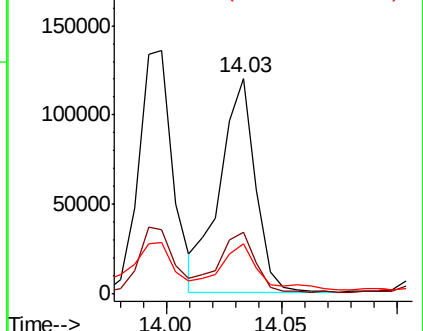
229 23.5 16.6 24.8

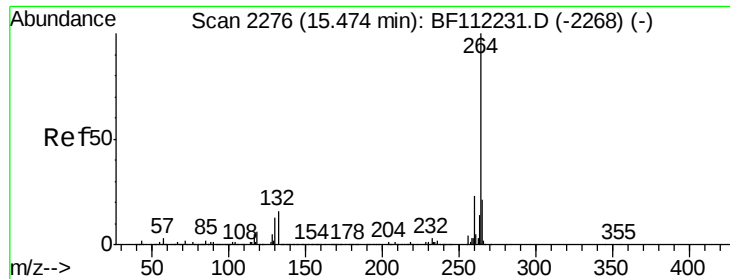


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

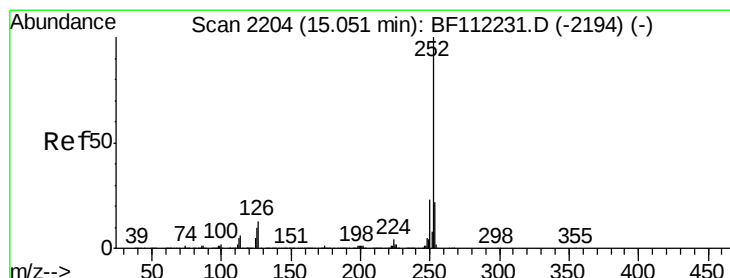
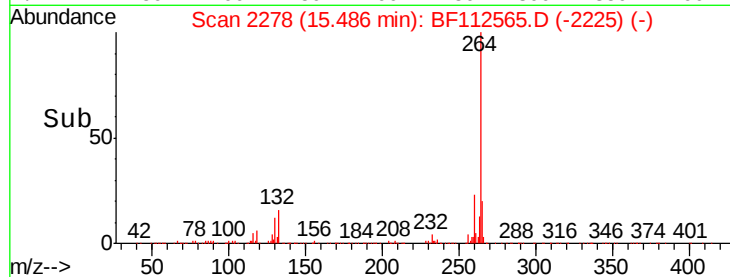
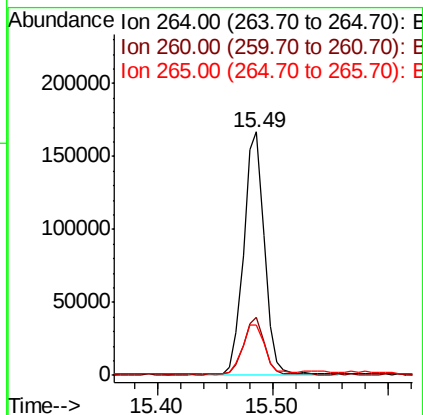
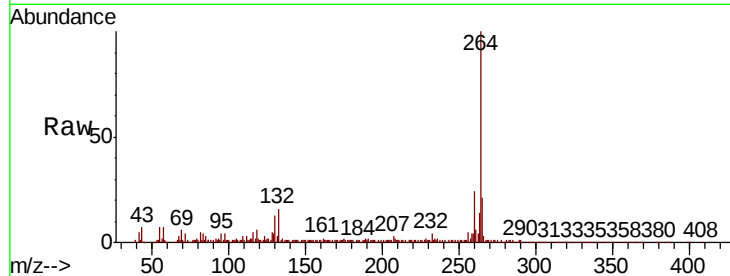




#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.49 min Scan# 2278
Delta R.T. 0.01 min
Lab File: BF112565.D
Acq: 14 Feb 2019 14:04

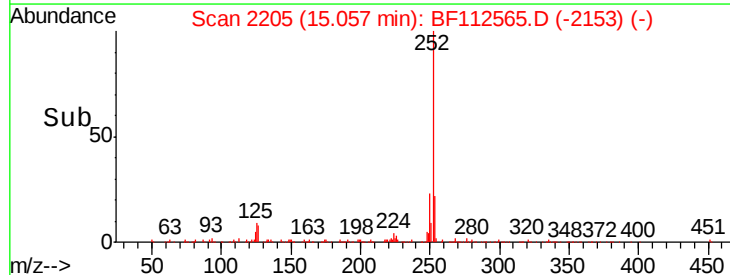
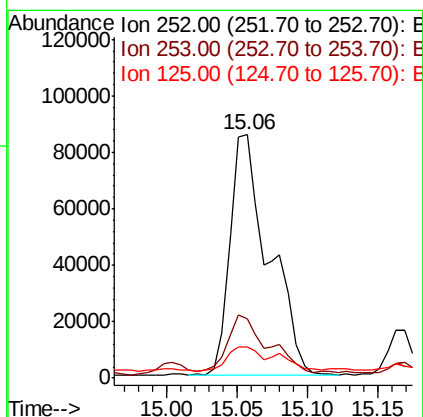
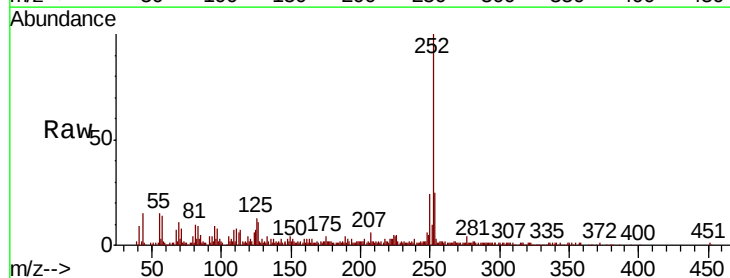
Instrument :
BNA_F
ClientSampleId :
OR-01-021319-A

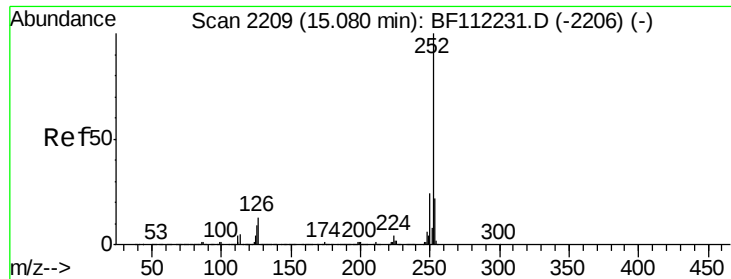
Tot Ion:264 Resp: 206066
Ion Ratio Lower Upper
264 100
260 23.8 18.2 27.2
265 20.7 17.0 25.4



#88
Benzo(b)fluoranthene
Concen: 13.416 ng
RT: 15.06 min Scan# 2205
Delta R.T. 0.01 min
Lab File: BF112565.D
Acq: 14 Feb 2019 14:04

Tgt Ion:252 Resp: 165333
Ion Ratio Lower Upper
252 100
253 24.5 18.0 27.0
125 12.9 8.7 13.1

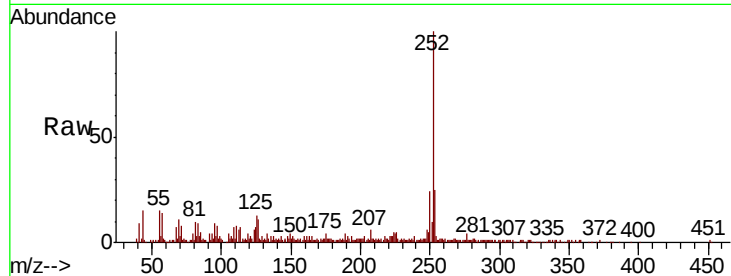




#89
Benzo(k)fluoranthene
Concen: 14.006 ng
RT: 15.06 min Scan# 2205
Delta R.T. -0.02 min
Lab File: BF112565.D
Acq: 14 Feb 2019 14:04

Instrument :
BNA_F
ClientSampleId :
OR-01-021319-A

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.5	18.0	27.0
125	12.9	9.1	13.7

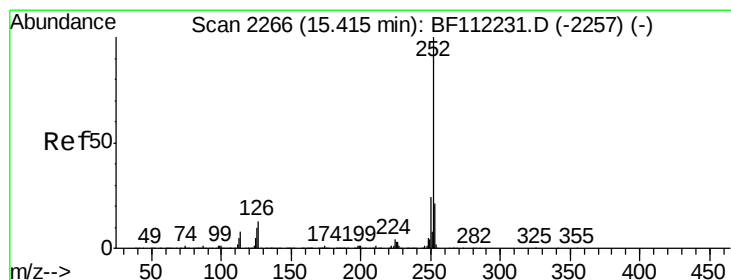
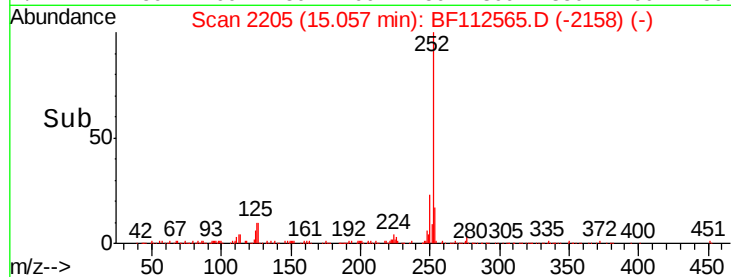
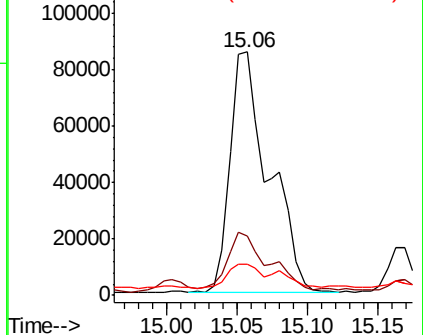


Abundance

Ion 252.00 (251.70 to 252.70): E

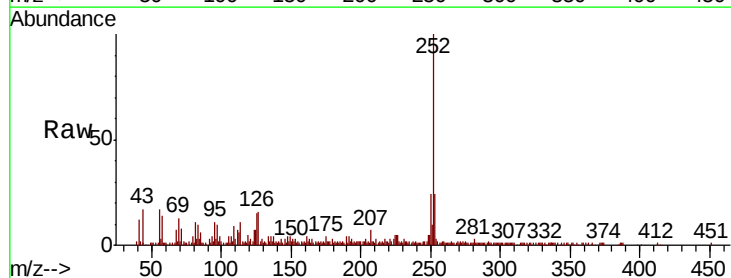
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90
Benzo(a)pyrene
Concen: 8.167 ng
RT: 15.42 min Scan# 2267
Delta R.T. 0.01 min
Lab File: BF112565.D
Acq: 14 Feb 2019 14:04

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.5	26.3
125	14.8	9.0	13.4

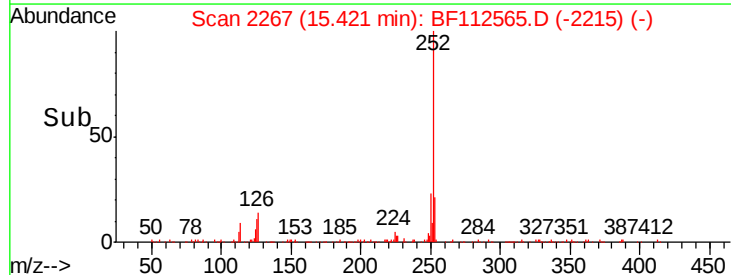
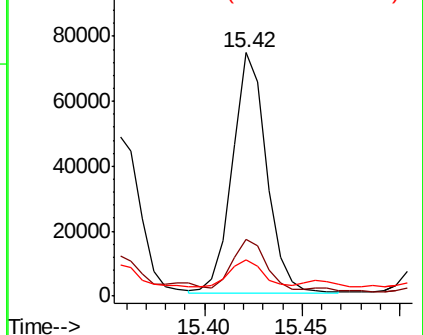


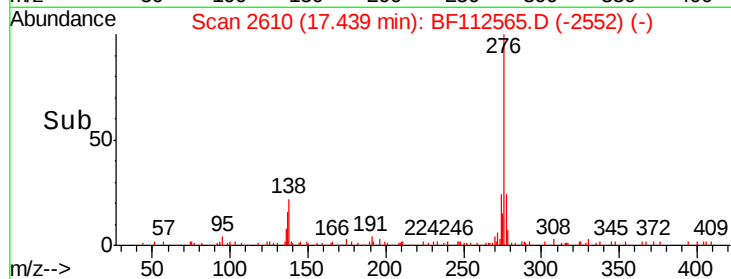
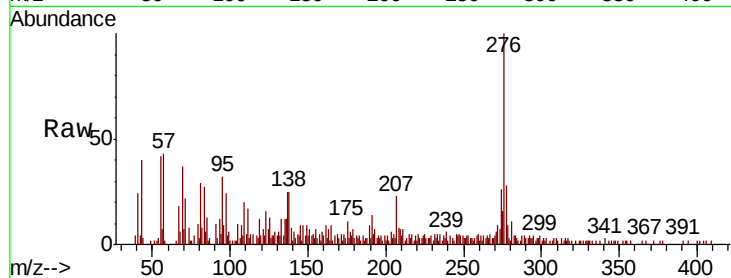
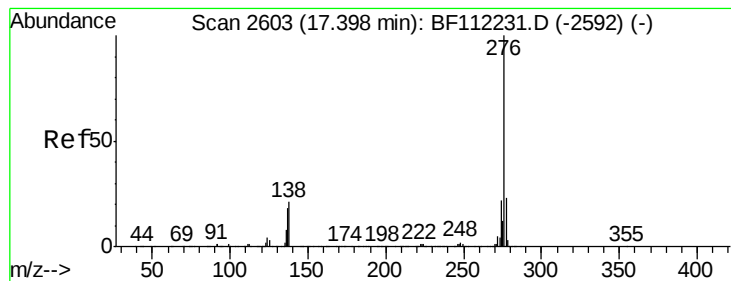
Abundance

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





#92

Benzo(a,h,i)perylene

Concen: 4.770 ng

RT: 17.44 min Scan# 2610

Delta R.T. 0.04 min

Lab File: BF112565.D

Acq: 14 Feb 2019 14:04

Instrument :

BNA_F

ClientSampleId :

OR-01-021319-A

Tot Ion:276 Resp: 40217

Ion Ratio Lower Upper

276 100

277 27.7 19.4 29.0

138 25.3 19.1 28.7

