

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012119\
 Data File : BF112162.D
 Acq On : 21 Jan 2019 16:52
 Operator : JU/SJ
 Sample : K1013-05 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-011819-C

Quant Time: Jan 21 17:59:47 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jan 19 01:02:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	219361	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	734071	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	287275	20.00	ng	0.00
64) Phenanthrene-d10	11.37	188	538281	20.00	ng	-0.01
76) Chrysene-d12	14.02	240	464003	20.00	ng	0.00
87) Perylene-d12	15.49	264	331235	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.48	112	257714	21.32	ng	-0.01
7) Phenol-d6	6.49	99	306315	20.26	ng	-0.01
23) Nitrobenzene-d5	7.41	82	161601	15.21	ng	-0.02
42) 2,4,6-Tribromophenol	10.68	330	59984	19.36	ng	-0.01
45) 2-Fluorobiphenyl	9.21	172	307026	15.67	ng	0.00
79) Terphenyl-d14	12.96	244	331104	15.18	ng	-0.01

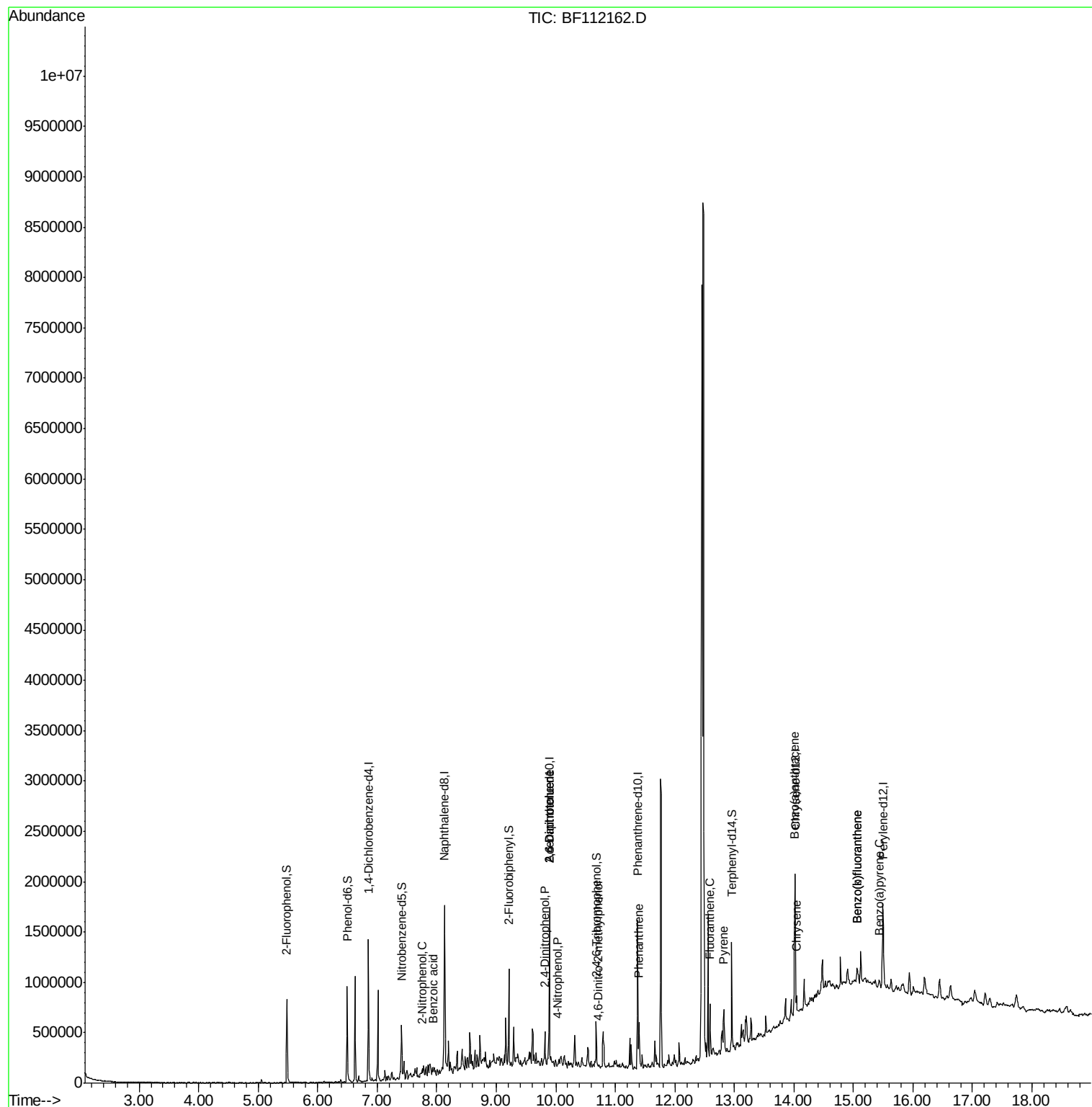
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.46	77	303	Below Cal		# 1
26) 2-Nitrophenol	7.76	139	908	5.819	ng	# 1
32) Benzoic acid	7.93	122	266	7.235	ng	# 37
51) 2,6-Dinitrotoluene	9.89	165	39140	9.355	ng	# 36
54) 2,4-Dinitrophenol	9.82	184	515	8.371	ng	# 62
56) 4-Nitrophenol	10.03	139	665	5.840	ng	# 6
57) 2,4-Dinitrotoluene	9.89	165	39140	11.174	ng	# 33
65) 4,6-Dinitro-2-methylphenol	10.72	198	721	10.323	ng	# 1
71) Phenanthrene	11.40	178	160413	5.922	ng	97
75) Fluoranthene	12.59	202	197558	6.907	ng	99
78) Pyrene	12.82	202	168169	5.493	ng	97
81) Benzo(a)anthracene	14.01	228	67206	2.526	ng	# 92
83) Chrysene	14.04	228	65631	2.607	ng	# 92
88) Benzo(b)fluoranthene	15.06	252	79752	4.242	ng	# 73
89) Benzo(k)fluoranthene	15.06	252	79752	4.382	ng	# 73
90) Benzo(a)pyrene	15.43	252	39582	2.296	ng	# 72

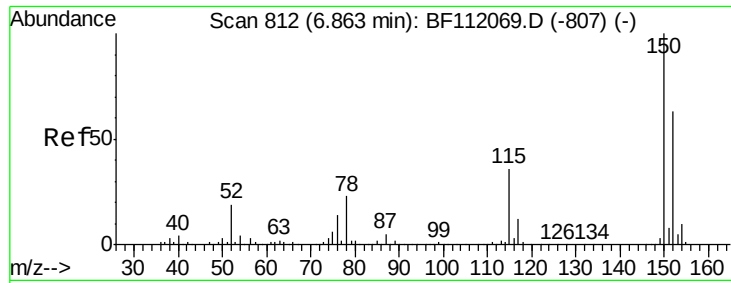
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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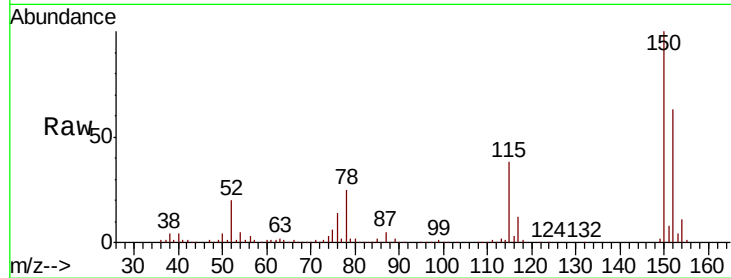


#1

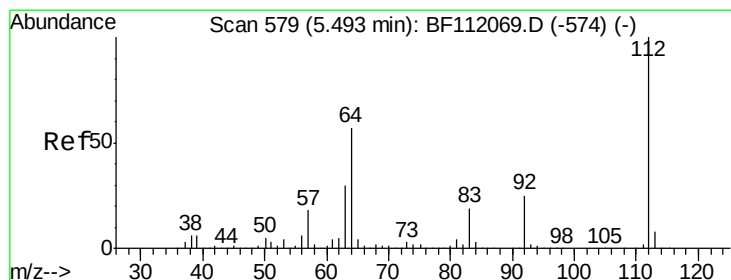
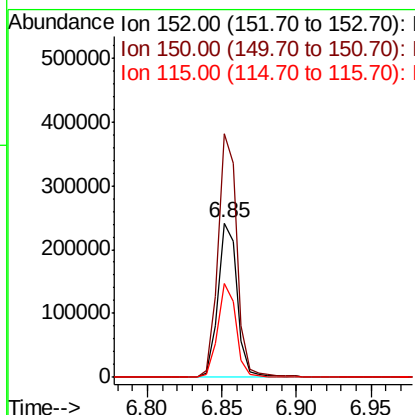
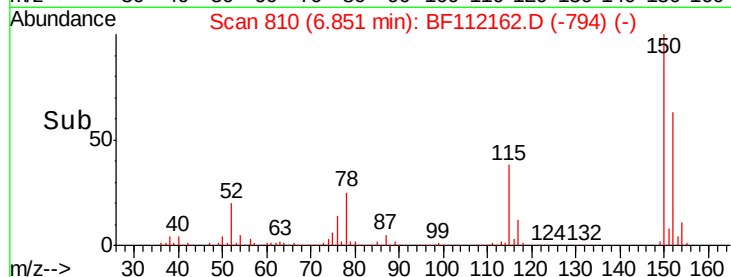
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. -0.01 min
Lab File: BF112162.D
Acq: 21 Jan 2019 16:52

Instrument :
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PL-01-011819-C

Tot Ion:152 Resp: 219361
Ion Ratio Lower Upper
152 100
150 157.7 127.4 191.0
115 60.5 45.5 68.3



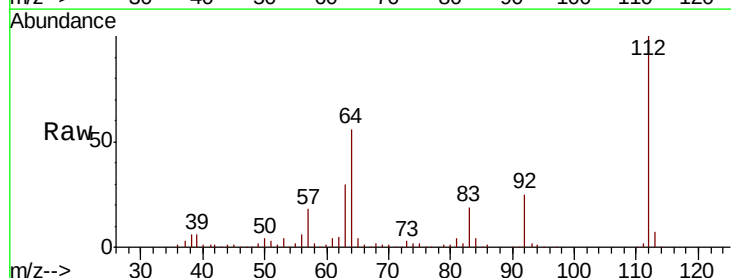
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



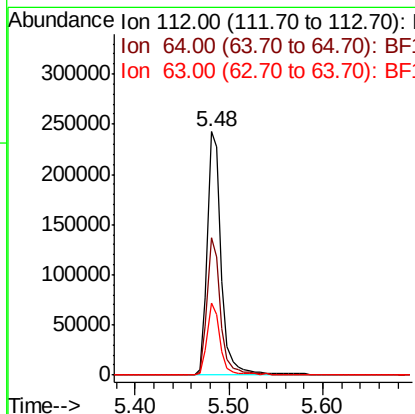
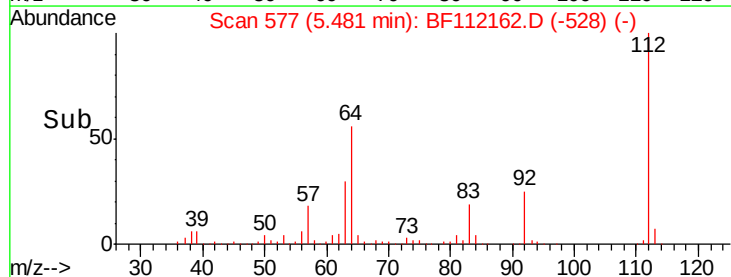
#5

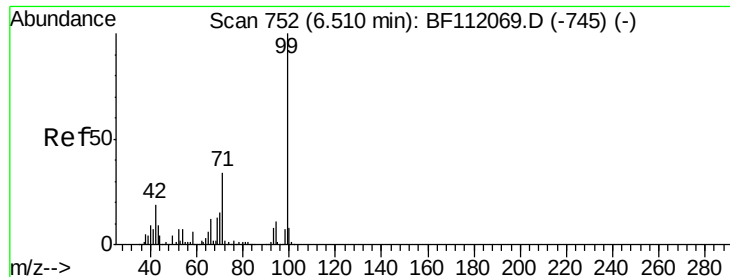
2-Fluorophenol
Concen: 21.324 ng
RT: 5.48 min Scan# 577
Delta R.T. -0.01 min
Lab File: BF112162.D
Acq: 21 Jan 2019 16:52

Tgt Ion:112 Resp: 257714
Ion Ratio Lower Upper
112 100
64 56.3 45.7 68.5
63 29.5 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: 20.257 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.01 min

Lab File: BF112162.D

Acq: 21 Jan 2019 16:52

Instrument :

BNA_F

ClientSampleId :

PL-01-011819-C

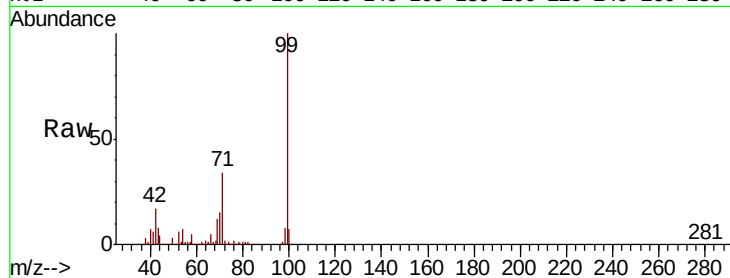
Tot Ion: 99 Resp: 306315

Ion Ratio Lower Upper

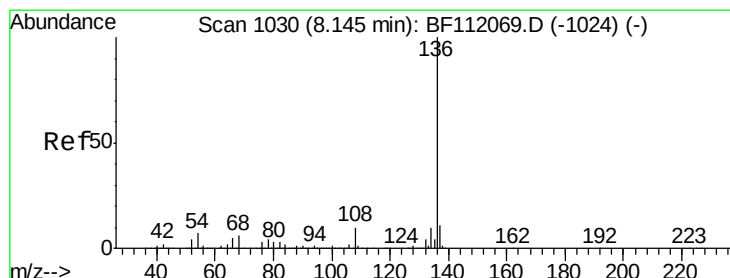
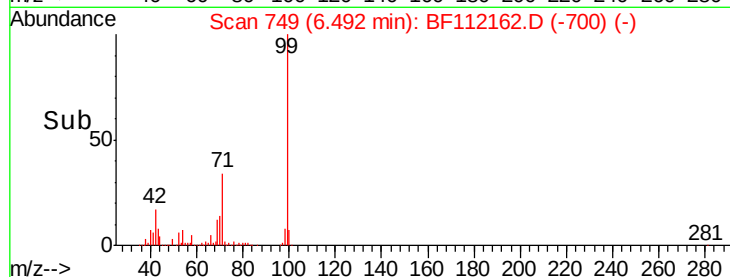
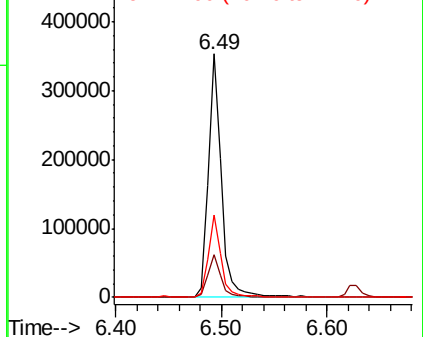
99 100

42 17.4 15.1 22.7

71 33.7 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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.13 min Scan# 1028

Delta R.T. -0.01 min

Lab File: BF112162.D

Acq: 21 Jan 2019 16:52

Tgt Ion: 136 Resp: 734071

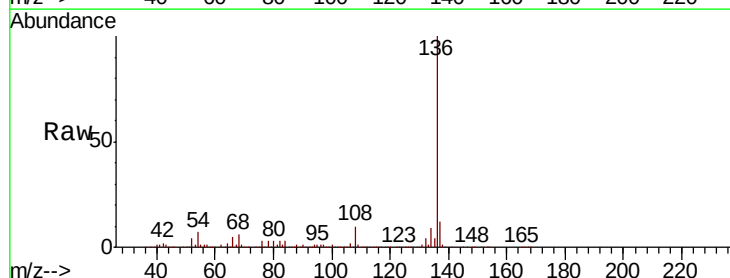
Ion Ratio Lower Upper

136 100

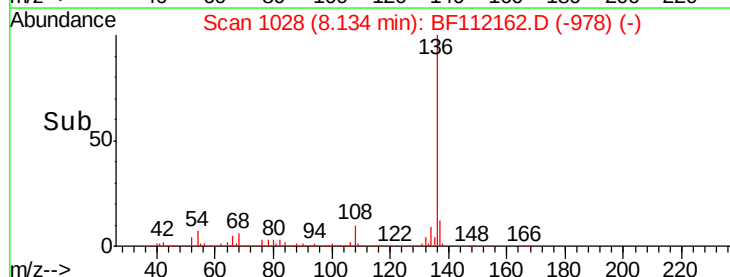
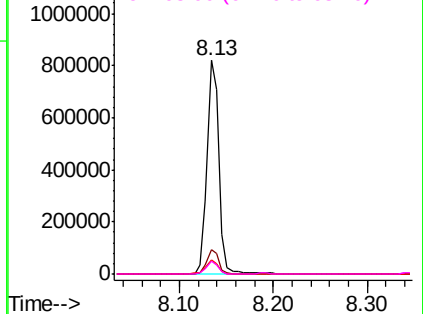
137 11.7 9.1 13.7

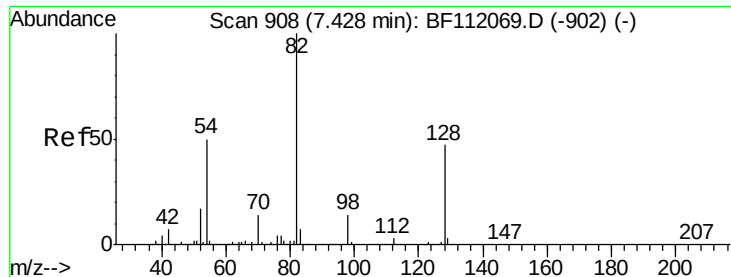
54 6.9 5.9 8.9

68 5.8 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: 15.209 ng

RT: 7.41 min Scan# 905

Delta R.T. -0.02 min

Lab File: BF112162.D

Acq: 21 Jan 2019 16:52

Instrument :

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PL-01-011819-C

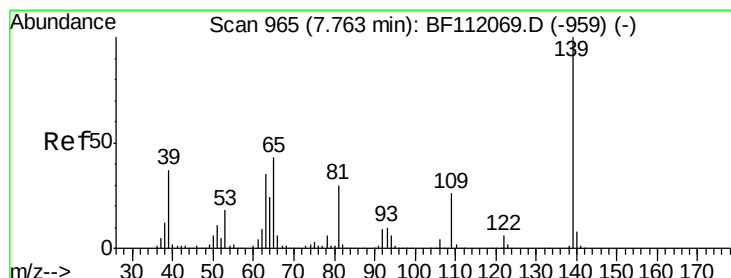
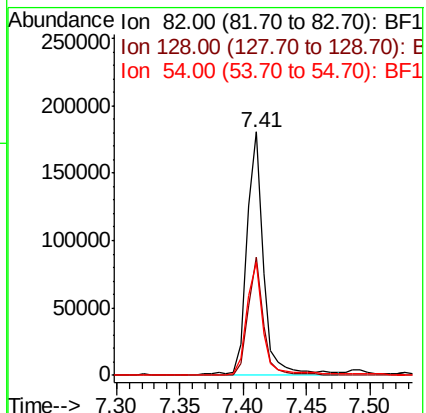
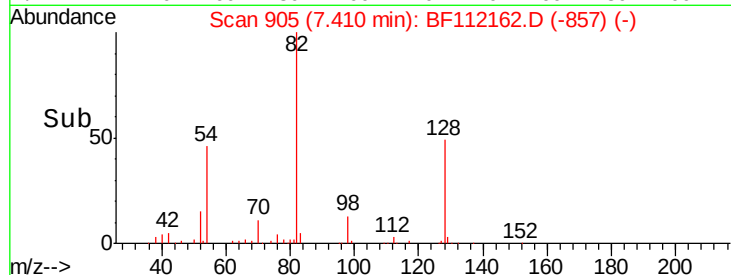
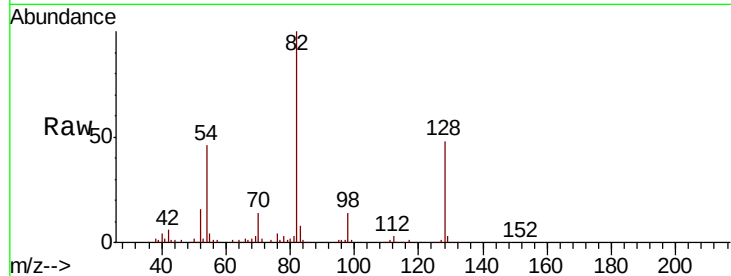
Tot Ion: 82 Resp: 161601

Ion Ratio Lower Upper

82 100

128 48.5 37.8 56.8

54 46.4 39.7 59.5



#26

2-Nitrophenol

Concen: 5.819 ng

RT: 7.76 min Scan# 964

Delta R.T. 0.00 min

Lab File: BF112162.D

Acq: 21 Jan 2019 16:52

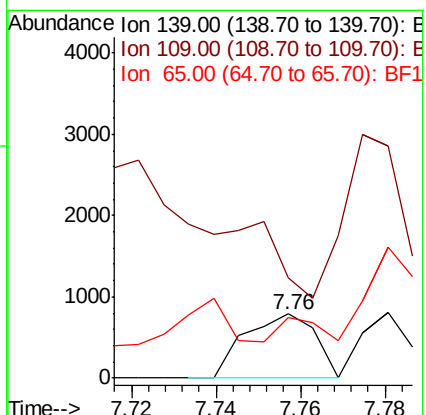
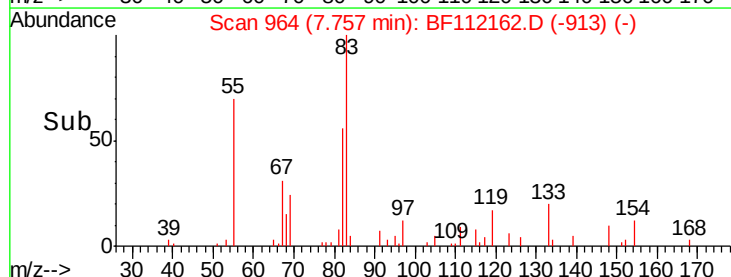
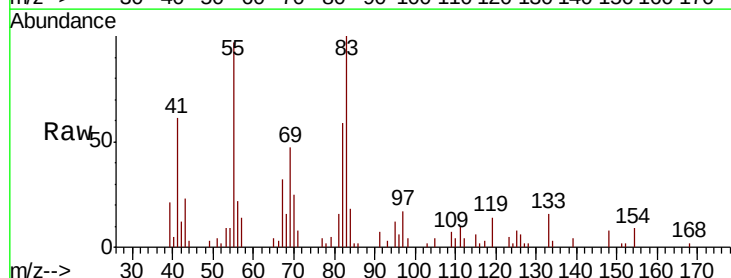
Tgt Ion: 139 Resp: 908

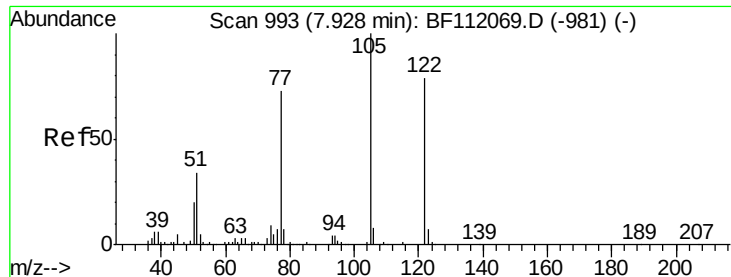
Ion Ratio Lower Upper

139 100

109 155.3 20.8 31.2#

65 94.1 34.4 51.6#

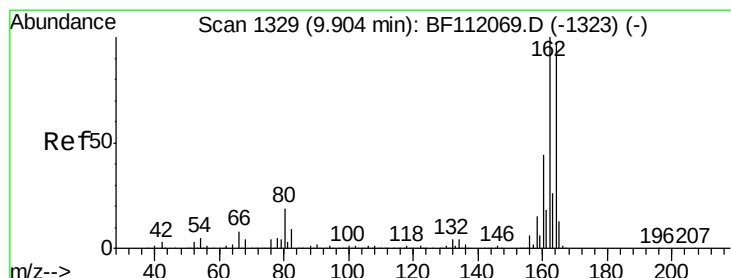
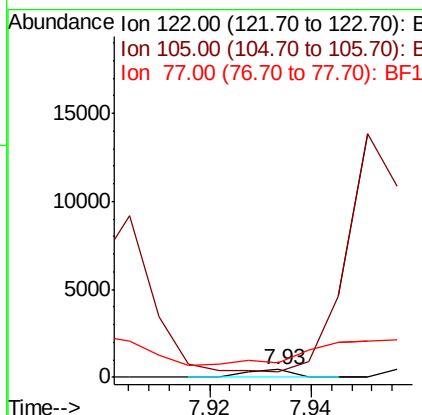
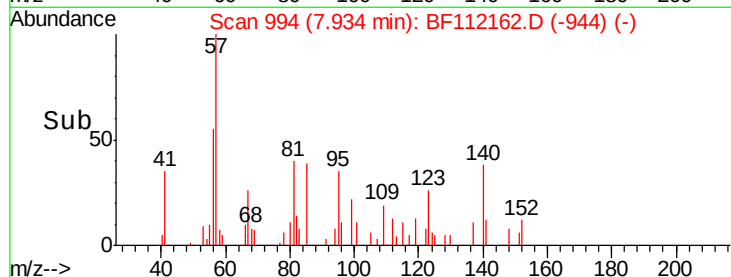
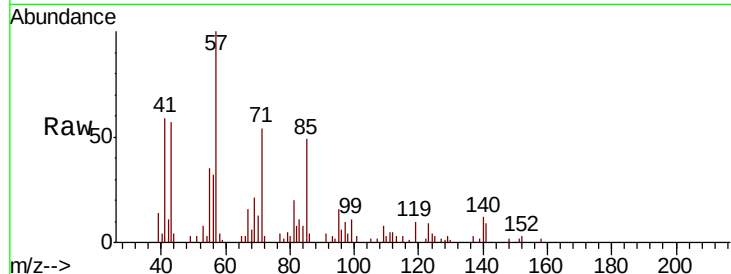




#32
Benzoic acid
Concen: 7.235 ng
RT: 7.93 min Scan# 994
Delta R.T. -0.01 min
Lab File: BF112162.D
Acq: 21 Jan 2019 16:52

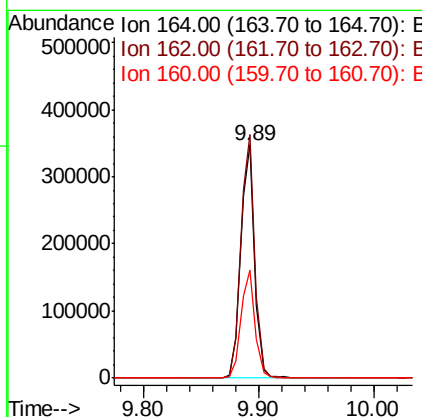
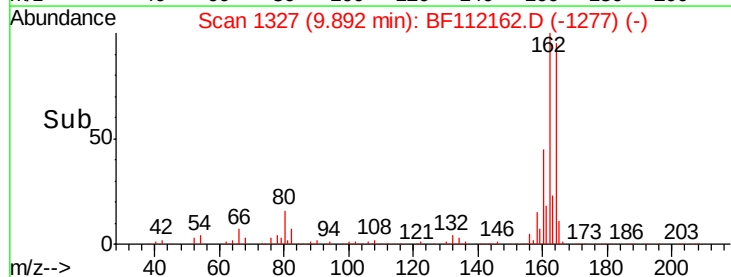
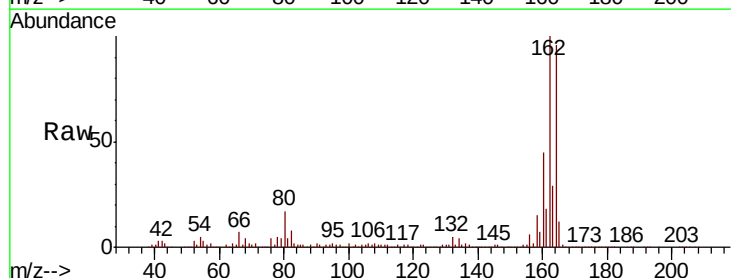
Instrument :
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PL-01-011819-C

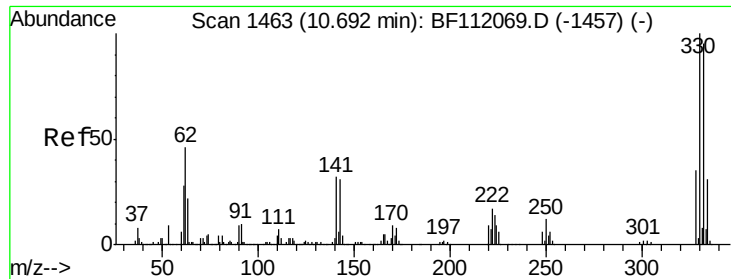
Tot Ion	Ratio	Lower	Upper
122	100		
105	78.6	101.2	141.2#
77	181.8	70.4	110.4#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1327
Delta R.T. -0.01 min
Lab File: BF112162.D
Acq: 21 Jan 2019 16:52

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.6	82.2	123.4
160	46.6	36.2	54.4

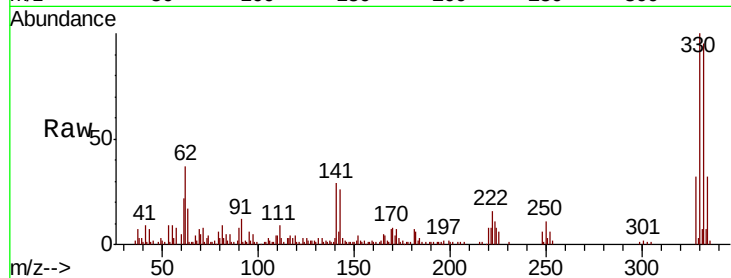




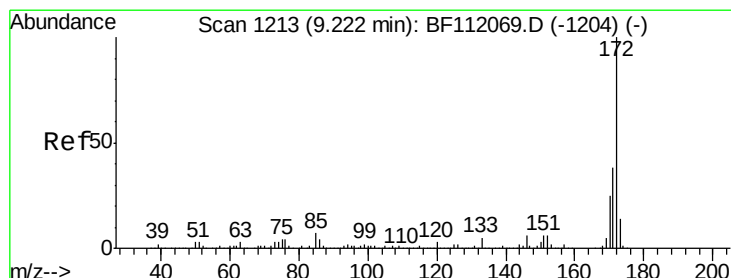
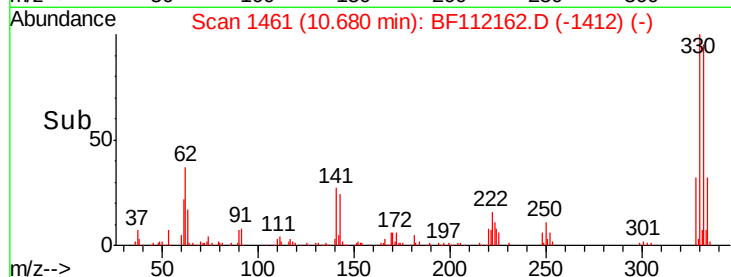
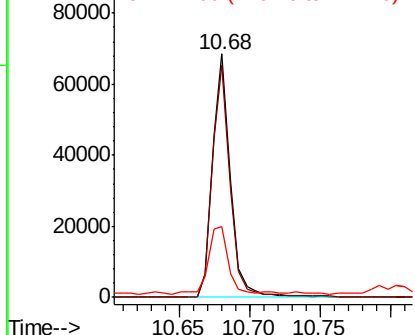
#42
 2,4,6-Tribromophenol
 Concen: 19.356 ng
 RT: 10.68 min Scan# 1461
 Delta R.T. -0.01 min
 Lab File: BF112162.D
 Acq: 21 Jan 2019 16:52

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-011819-C

Tot Ion:330 Resp: 59984
 Ion Ratio Lower Upper
 330 100
 332 95.6 76.6 114.8
 141 31.1 24.3 36.5

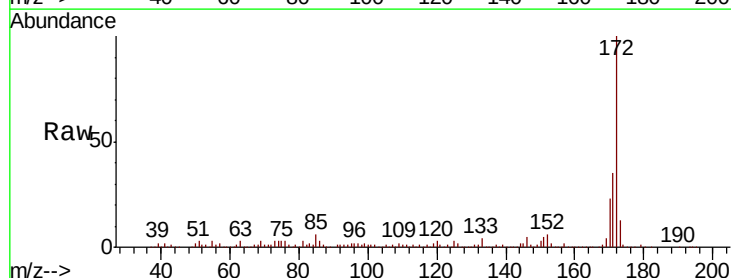


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

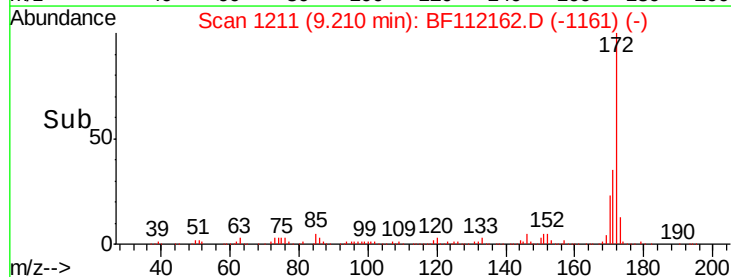
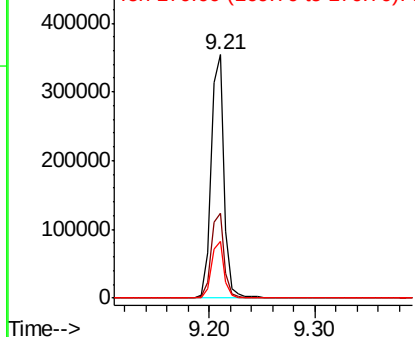


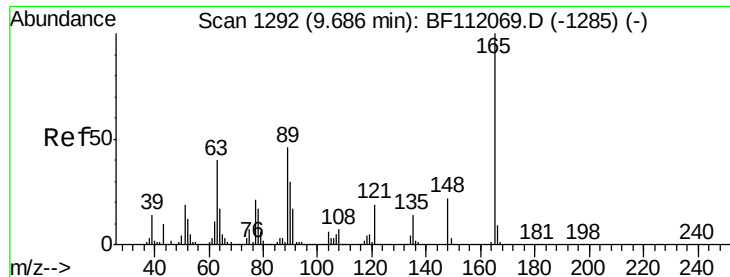
#45
 2-Fluorobiphenyl
 Concen: 15.669 ng
 RT: 9.21 min Scan# 1211
 Delta R.T. -0.01 min
 Lab File: BF112162.D
 Acq: 21 Jan 2019 16:52

Tgt Ion:172 Resp: 307026
 Ion Ratio Lower Upper
 172 100
 171 34.9 30.5 45.7
 170 23.1 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





#51

2,6-Dinitrotoluene

Concen: 9.355 ng

RT: 9.89 min Scan# 1327

Delta R.T. 0.21 min

Lab File: BF112162.D

Acq: 21 Jan 2019 16:52

Instrument :

BNA_F

ClientSampleId :

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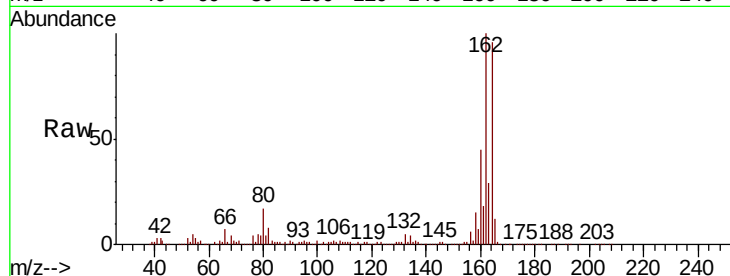
Tot Ion:165 Resp: 39140

Ion Ratio Lower Upper

165 100

63 2.4 33.8 50.8#

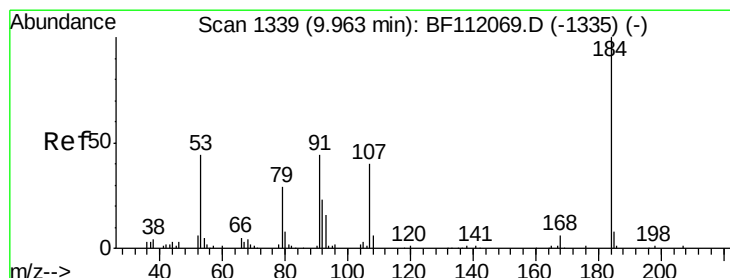
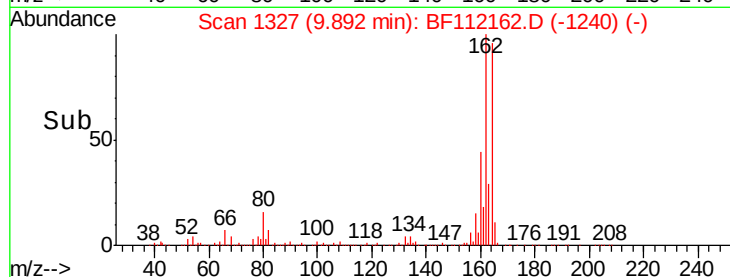
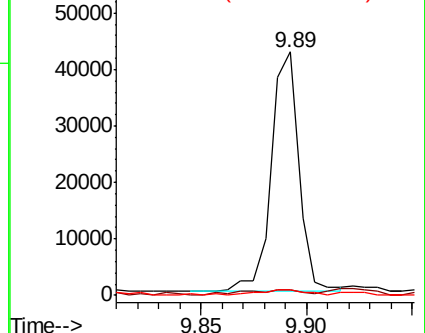
89 2.5 36.9 55.3#



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



#54

2,4-Dinitrophenol

Concen: 8.371 ng

RT: 9.82 min Scan# 1315

Delta R.T. -0.14 min

Lab File: BF112162.D

Acq: 21 Jan 2019 16:52

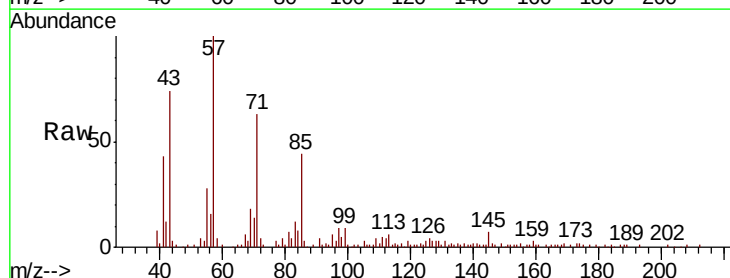
Tgt Ion:184 Resp: 515

Ion Ratio Lower Upper

184 100

63 51.2 47.1 70.7

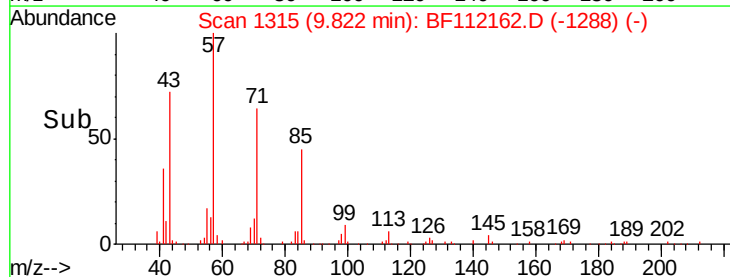
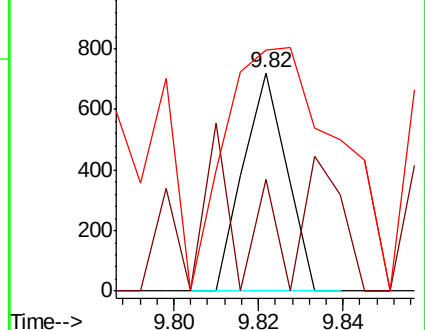
154 110.7 48.9 73.3#

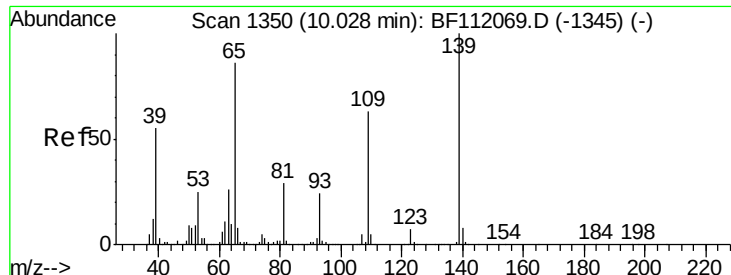


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 154.00 (153.70 to 154.70): E

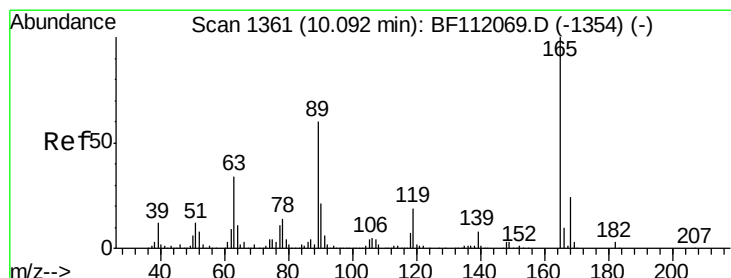
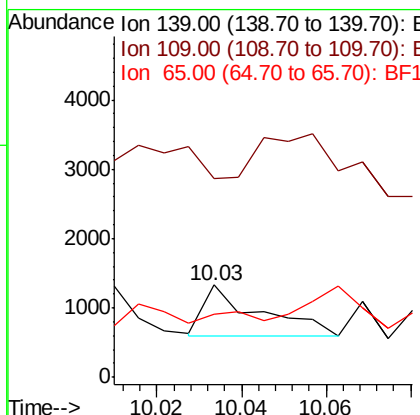
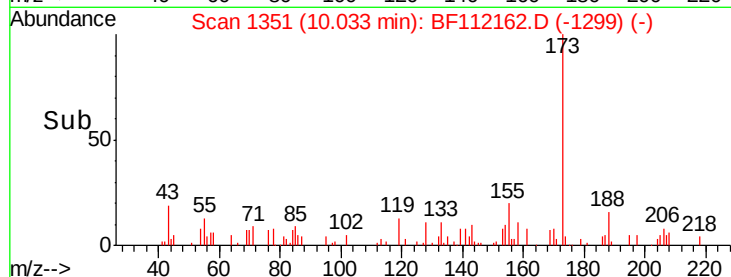
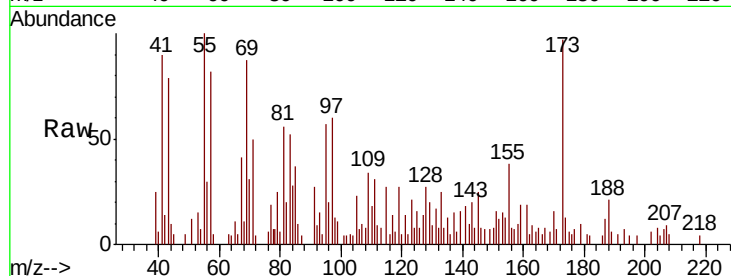




#56
4-Nitrophenol
Concen: 5.840 ng
RT: 10.03 min Scan# 1351
Delta R.T. 0.01 min
Lab File: BF112162.D
Acq: 21 Jan 2019 16:52

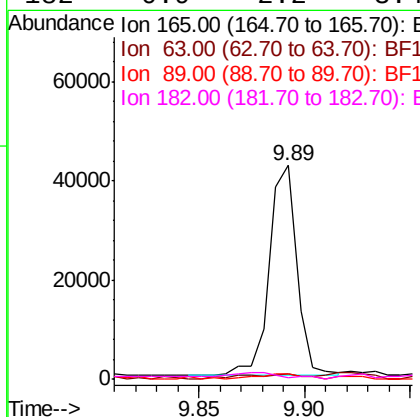
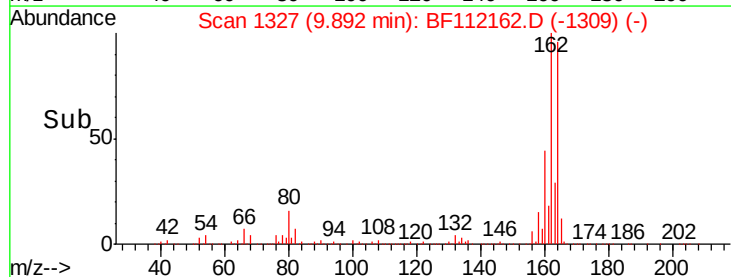
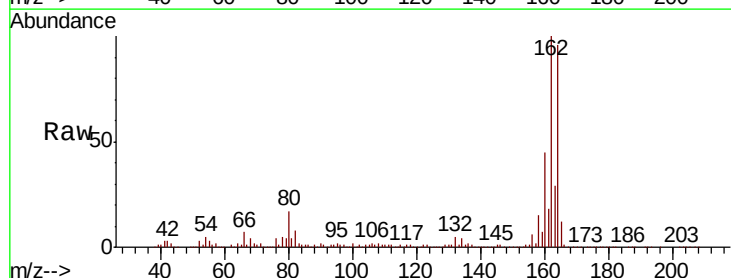
Instrument :
BNA_F
ClientSampleId :
PL-01-011819-C

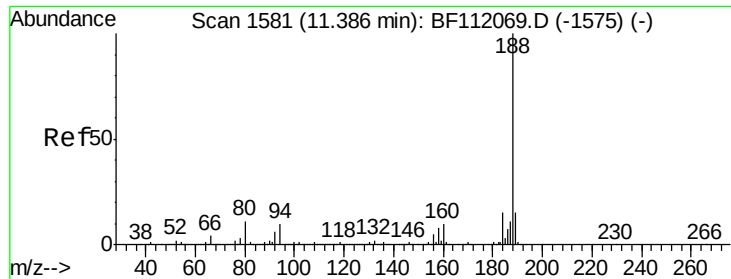
Tot Ion:139 Resp: 665
Ion Ratio Lower Upper
139 100
109 215.3 42.8 82.8#
65 69.1 66.1 106.1



#57
2,4-Dinitrotoluene
Concen: 11.174 ng
RT: 9.89 min Scan# 1327
Delta R.T. -0.19 min
Lab File: BF112162.D
Acq: 21 Jan 2019 16:52

Tgt Ion:165 Resp: 39140
Ion Ratio Lower Upper
165 100
63 2.4 27.9 41.9#
89 2.5 47.9 71.9#
182 0.9 2.2 3.4#

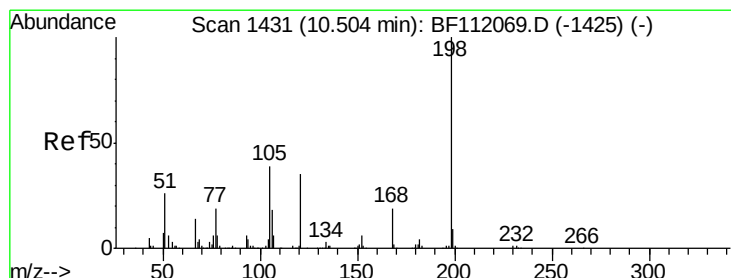
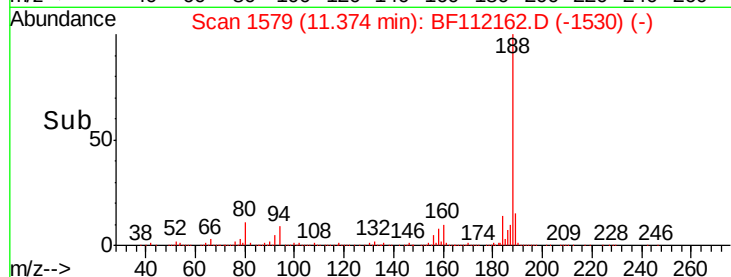
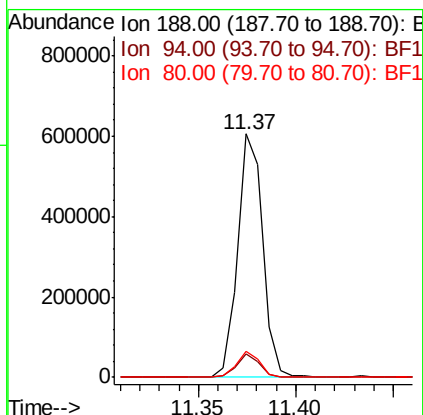
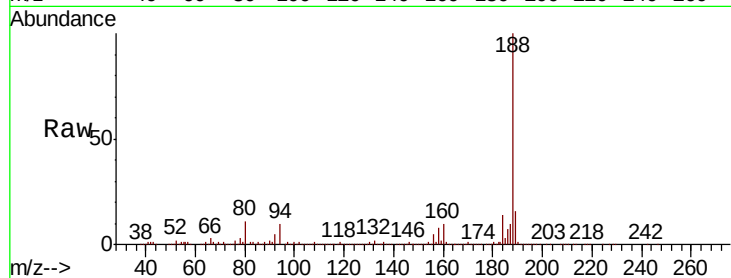




#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.37 min Scan# 1579
 Delta R.T. -0.01 min
 Lab File: BF112162.D
 Acq: 21 Jan 2019 16:52

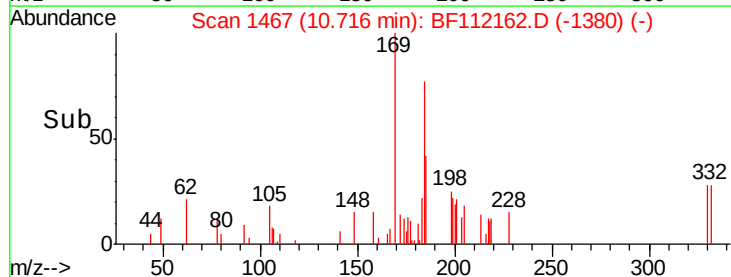
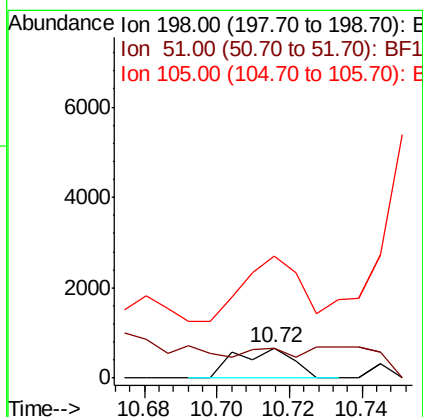
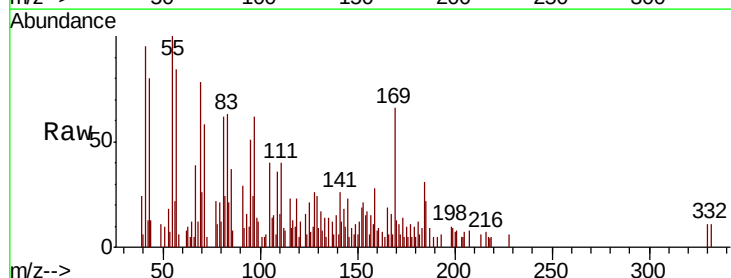
Instrument :
 BNA_F
 ClientSampleId :
 PL-01-011819-C

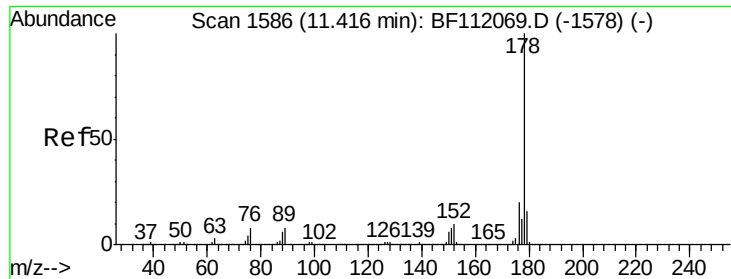
Tot Ion:188 Resp: 538281
 Ion Ratio Lower Upper
 188 100
 94 9.5 8.2 12.2
 80 10.7 8.9 13.3



#65
 4,6-Dinitro-2-methylphenol
 Concen: 10.323 ng
 RT: 10.72 min Scan# 1467
 Delta R.T. 0.21 min
 Lab File: BF112162.D
 Acq: 21 Jan 2019 16:52

Tgt Ion:198 Resp: 721
 Ion Ratio Lower Upper
 198 100
 51 99.7 17.2 57.2#
 105 404.3 21.9 61.9#

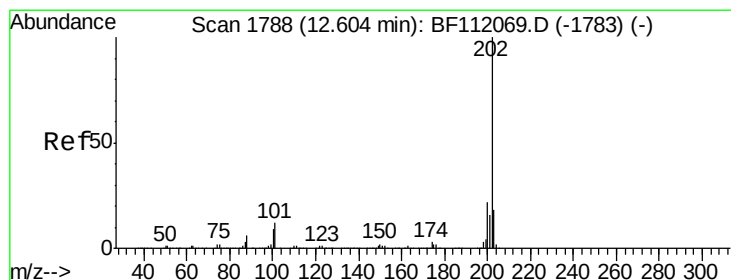
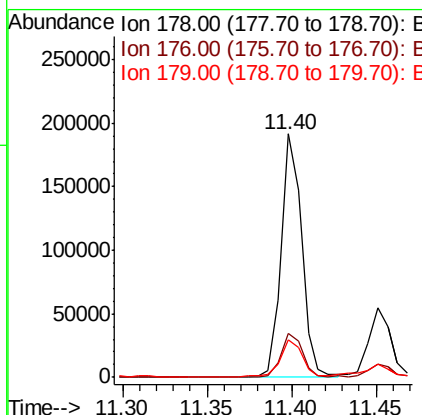
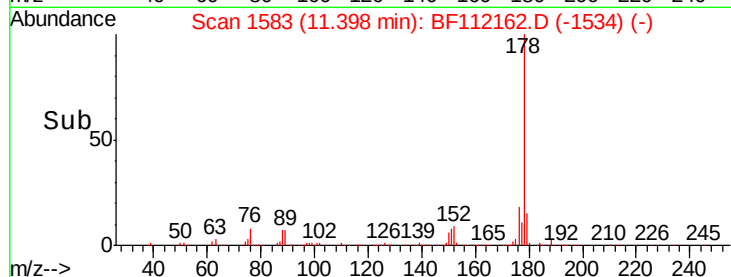
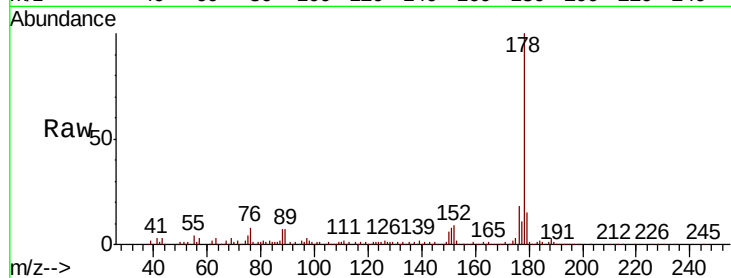




#71
Phenanthrene
Concen: 5.922 ng
RT: 11.40 min Scan# 1583
Delta R.T. -0.01 min
Lab File: BF112162.D
Acq: 21 Jan 2019 16:52

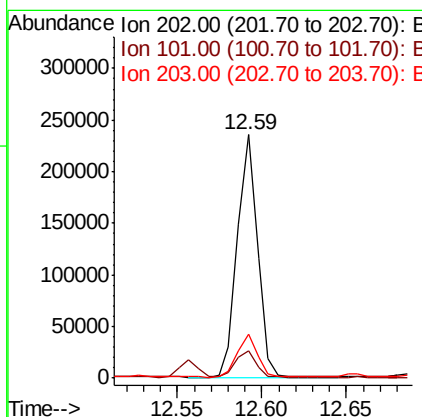
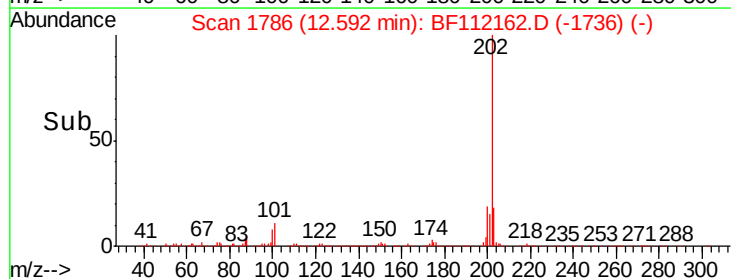
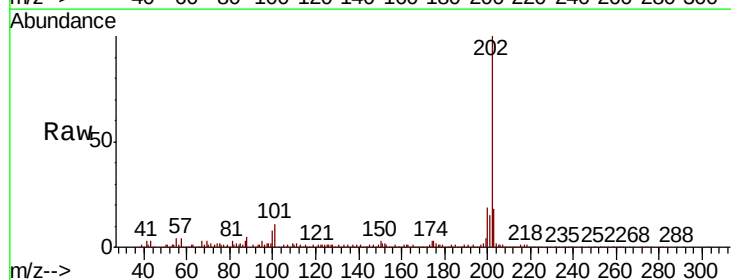
Instrument :
BNA_F
ClientSampleId :
PL-01-011819-C

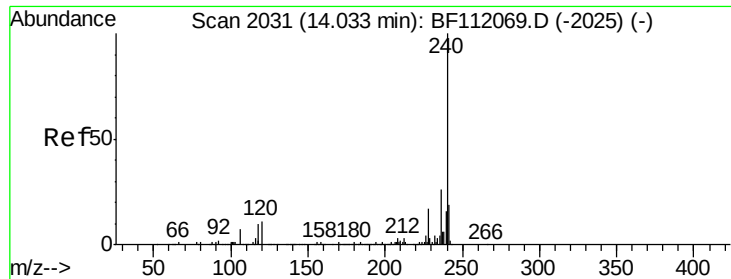
Tot Ion:178 Resp: 160413
Ion Ratio Lower Upper
178 100
176 18.3 16.3 24.5
179 15.3 13.0 19.4



#75
Fluoranthene
Concen: 6.907 ng
RT: 12.59 min Scan# 1786
Delta R.T. -0.01 min
Lab File: BF112162.D
Acq: 21 Jan 2019 16:52

Tgt Ion:202 Resp: 197558
Ion Ratio Lower Upper
202 100
101 11.0 0.0 31.8
203 18.0 0.0 38.4

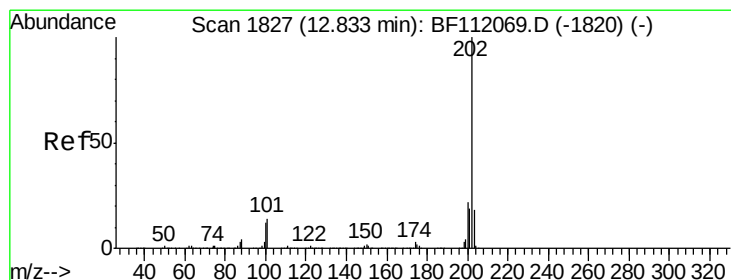
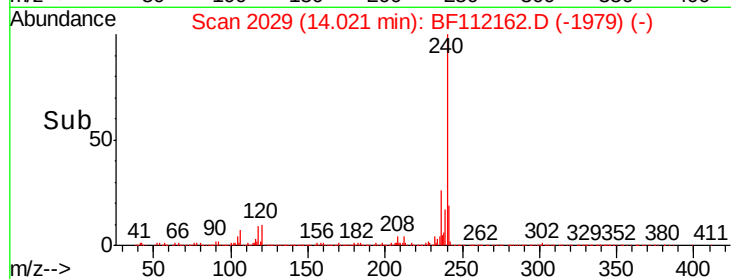
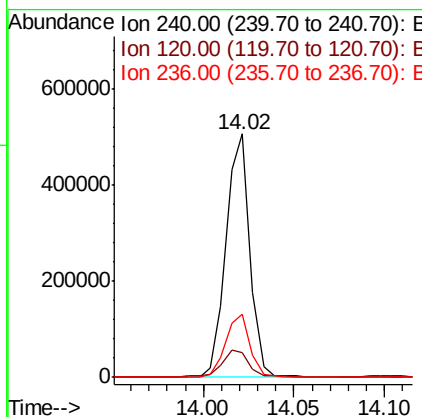
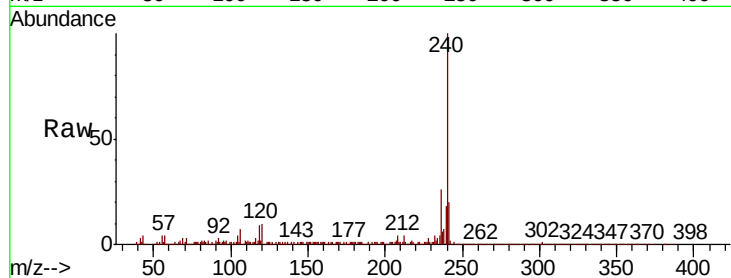




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.02 min Scan# 2029
Delta R.T. -0.01 min
Lab File: BF112162.D
Acq: 21 Jan 2019 16:52

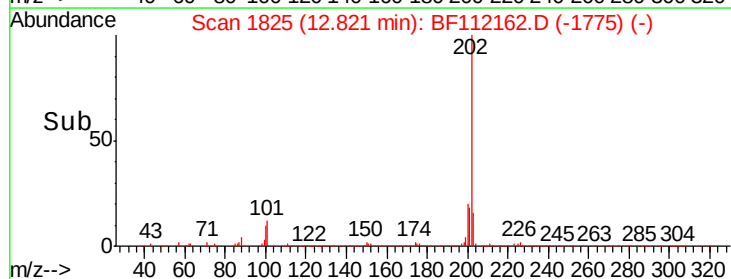
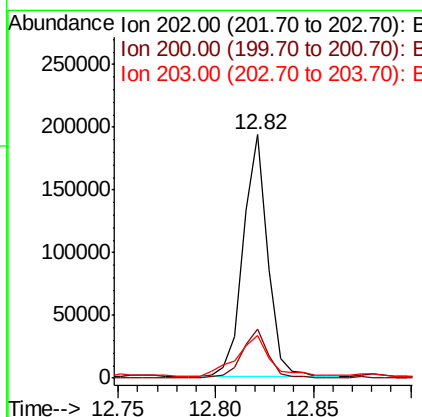
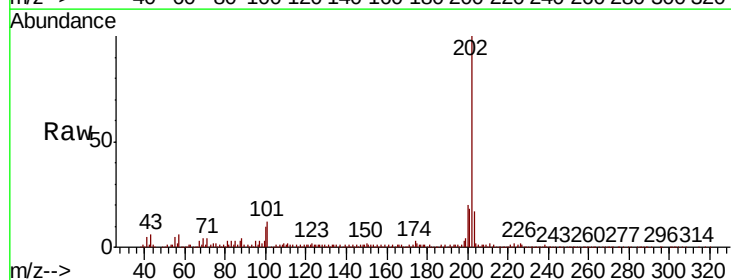
Instrument :
BNA_F
ClientSampleId :
PL-01-011819-C

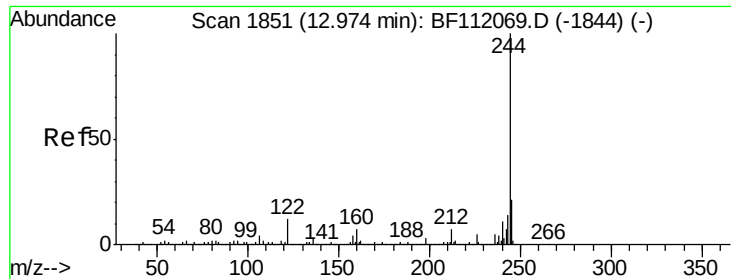
Tot Ion	Ratio	Lower	Upper
240	100		
120	10.1	9.0	13.6
236	26.0	20.7	31.1



#78
Pyrene
Concen: 5.493 ng
RT: 12.82 min Scan# 1825
Delta R.T. -0.01 min
Lab File: BF112162.D
Acq: 21 Jan 2019 16:52

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.2	17.7	26.5
203	17.3	14.6	22.0





#79

Terphenyl-d14

Concen: 15.181 ng

RT: 12.96 min Scan# 1848

Delta R.T. -0.01 min

Lab File: BF112162.D

Acq: 21 Jan 2019 16:52

Instrument :

BNA_F

ClientSampleId :

PL-01-011819-C

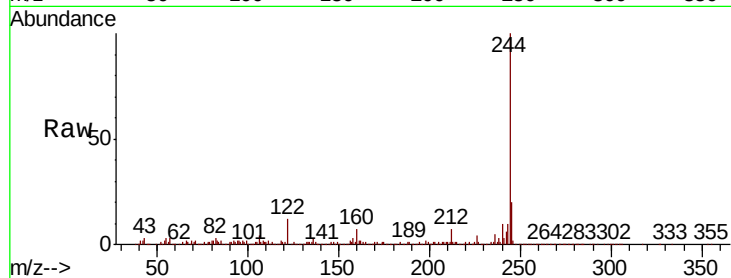
Tot Ion:244 Resp: 331104

Ion Ratio Lower Upper

244 100

212 6.6 5.9 8.9

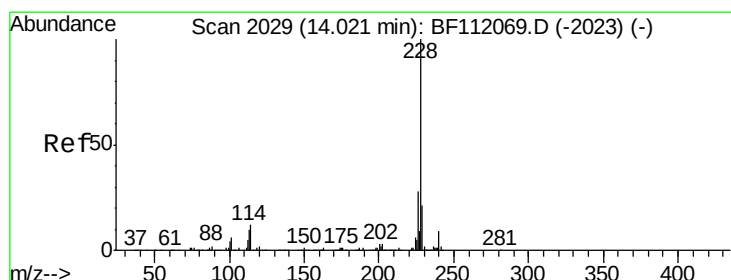
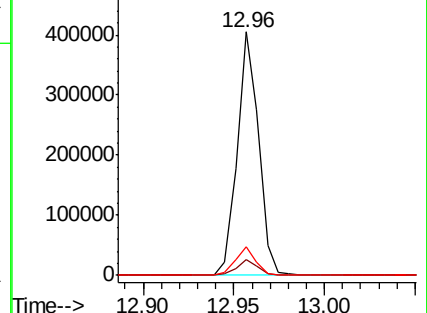
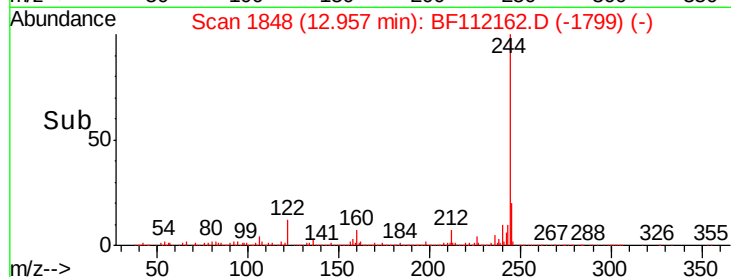
122 12.0 9.8 14.6



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 2.526 ng

RT: 14.01 min Scan# 2027

Delta R.T. -0.01 min

Lab File: BF112162.D

Acq: 21 Jan 2019 16:52

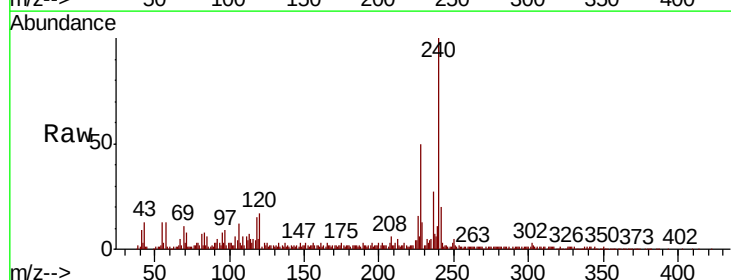
Tgt Ion:228 Resp: 67206

Ion Ratio Lower Upper

228 100

226 31.9 22.6 34.0

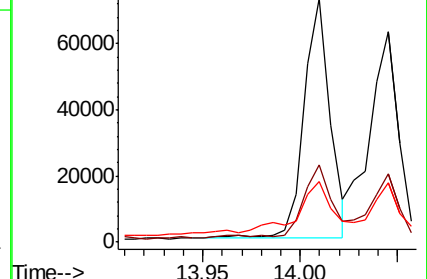
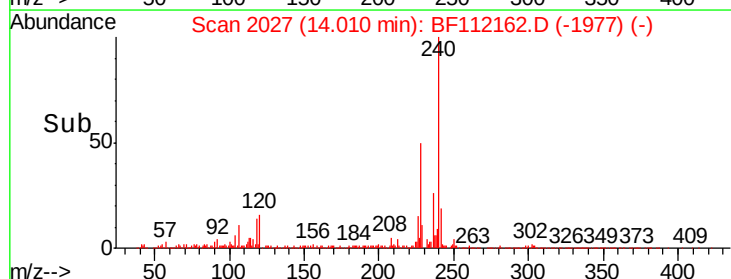
229 25.1 16.5 24.7#

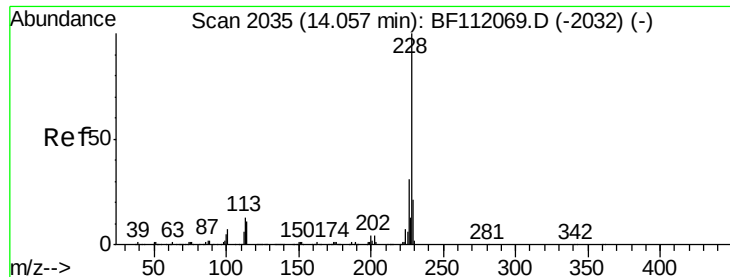


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

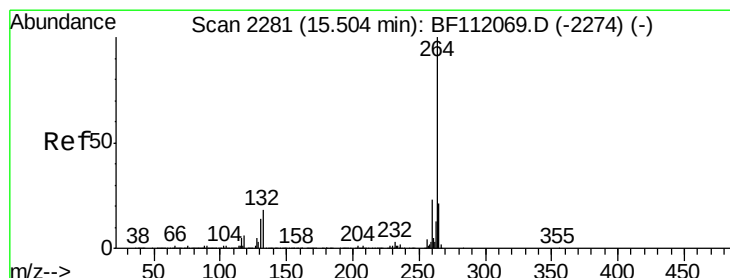
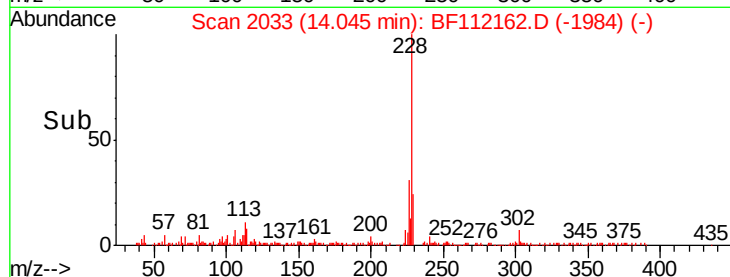
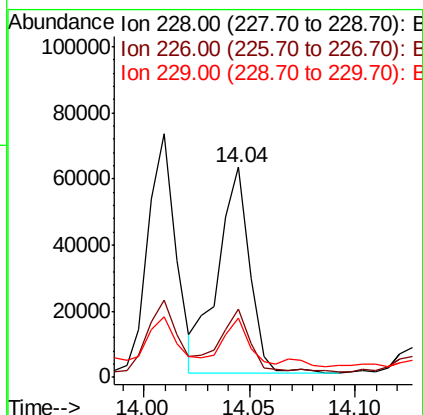
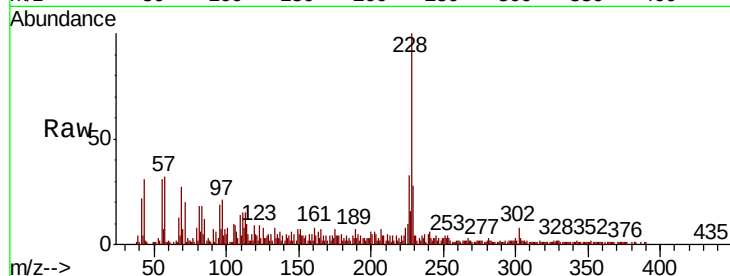




#83
Chrysene
Concen: 2.607 ng
RT: 14.04 min Scan# 2033
Delta R.T. -0.01 min
Lab File: BF112162.D
Acq: 21 Jan 2019 16:52

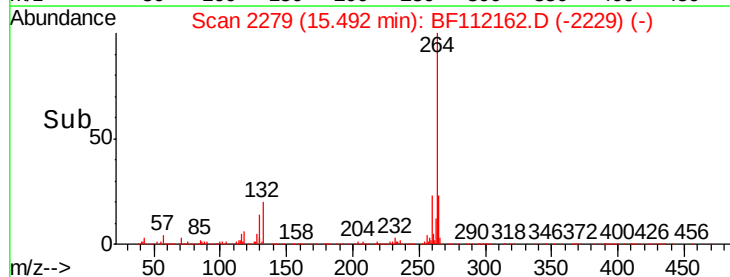
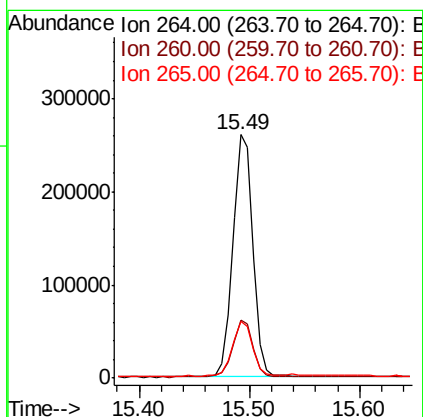
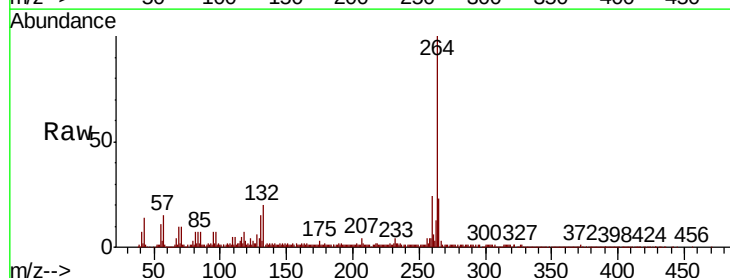
Instrument :
BNA_F
ClientSampleId :
PL-01-011819-C

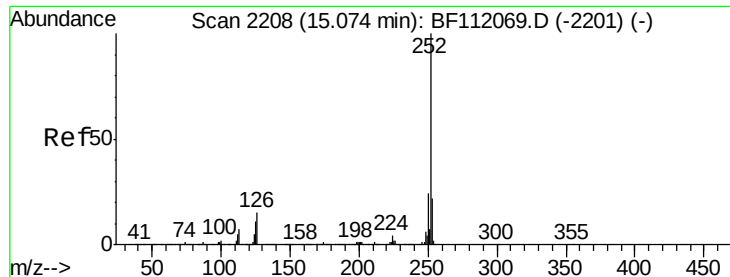
Tot Ion	Ratio	Lower	Upper
228	100		
226	32.7	25.0	37.6
229	28.0	16.6	24.8



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.49 min Scan# 2279
Delta R.T. -0.01 min
Lab File: BF112162.D
Acq: 21 Jan 2019 16:52

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.2	27.2
265	23.3	17.0	25.4

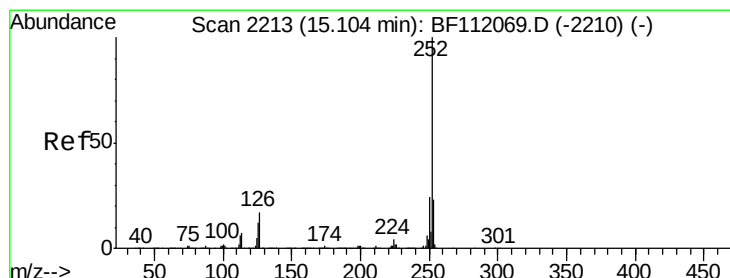
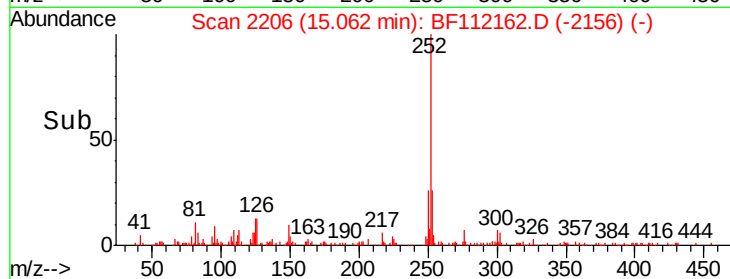
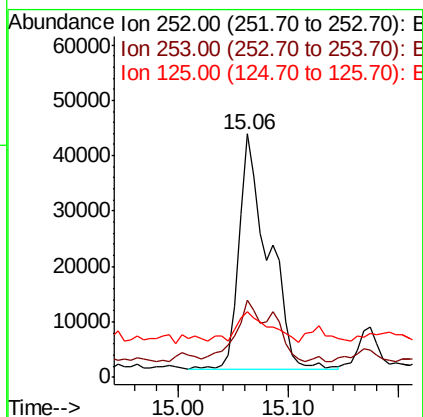
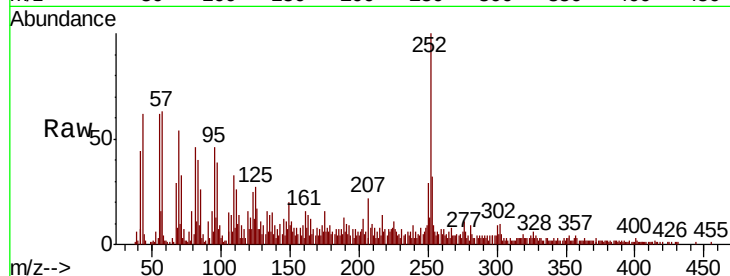




#88
Benzo(b)fluoranthene
Concen: 4.242 ng
RT: 15.06 min Scan# 2206
Delta R.T. -0.01 min
Lab File: BF112162.D
Acq: 21 Jan 2019 16:52

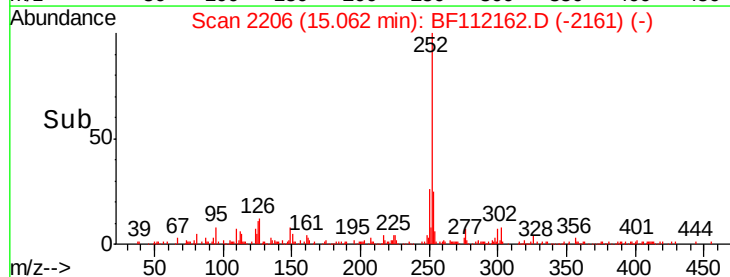
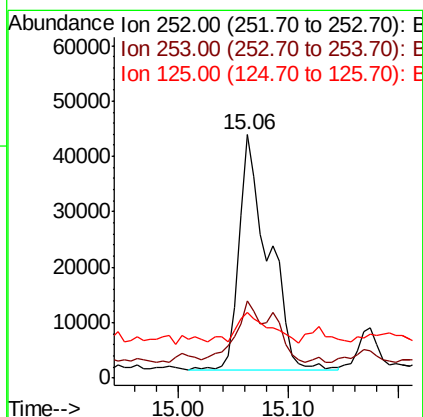
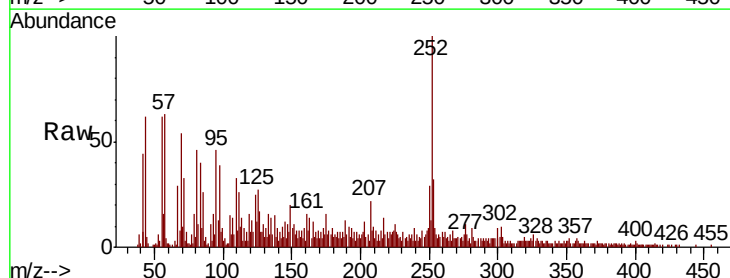
Instrument :
BNA_F
ClientSampleId :
PL-01-011819-C

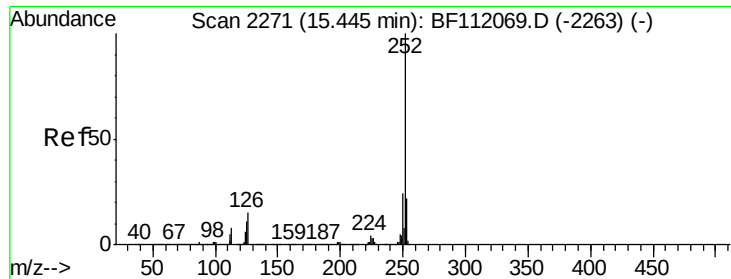
Tot Ion	Ratio	Lower	Upper
252	100		
253	32.0	18.0	27.0#
125	27.0	8.7	13.1#



#89
Benzo(k)fluoranthene
Concen: 4.382 ng
RT: 15.06 min Scan# 2206
Delta R.T. -0.04 min
Lab File: BF112162.D
Acq: 21 Jan 2019 16:52

Tgt Ion	Ratio	Lower	Upper
252	100		
253	32.0	18.0	27.0#
125	27.0	9.1	13.7#





#90

Benzo(a)pyrene

Concen: 2.296 ng

RT: 15.43 min Scan# 2268

Delta R.T. -0.01 min

Lab File: BF112162.D

Acq: 21 Jan 2019 16:52

Instrument :

BNA_F

ClientSampleId :

PL-01-011819-C

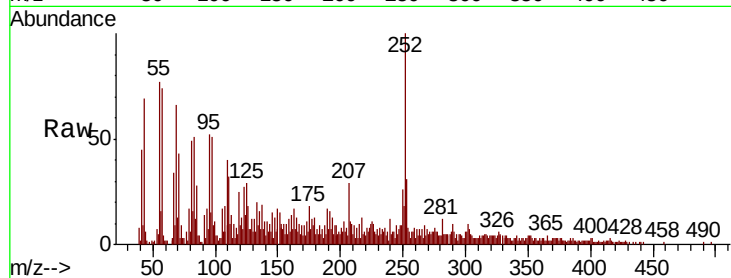
Tot Ion:252 Resp: 39582

Ion Ratio Lower Upper

252 100

253 30.6 17.5 26.3#

125 29.5 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

