

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012219\
 Data File : BF112191.D
 Acq On : 22 Jan 2019 14:14
 Operator : JU/SJ
 Sample : K1013-05RE 5X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

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

Quant Time: Jan 22 14:49:10 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	258895	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	972841	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	412848	20.00	ng	-0.01
64) Phenanthrene-d10	11.37	188	646447	20.00	ng	-0.01
76) Chrysene-d12	14.02	240	543981	20.00	ng	-0.01
87) Perylene-d12	15.49	264	416563	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.48	112	286584	20.09	ng	-0.01
7) Phenol-d6	6.49	99	366500	20.54	ng	-0.01
23) Nitrobenzene-d5	7.41	82	216266	15.36	ng	-0.02
42) 2,4,6-Tribromophenol	10.68	330	78495	17.62	ng	-0.01
45) 2-Fluorobiphenyl	9.20	172	442308	15.71	ng	-0.01
79) Terphenyl-d14	12.96	244	340114	13.30	ng	-0.01

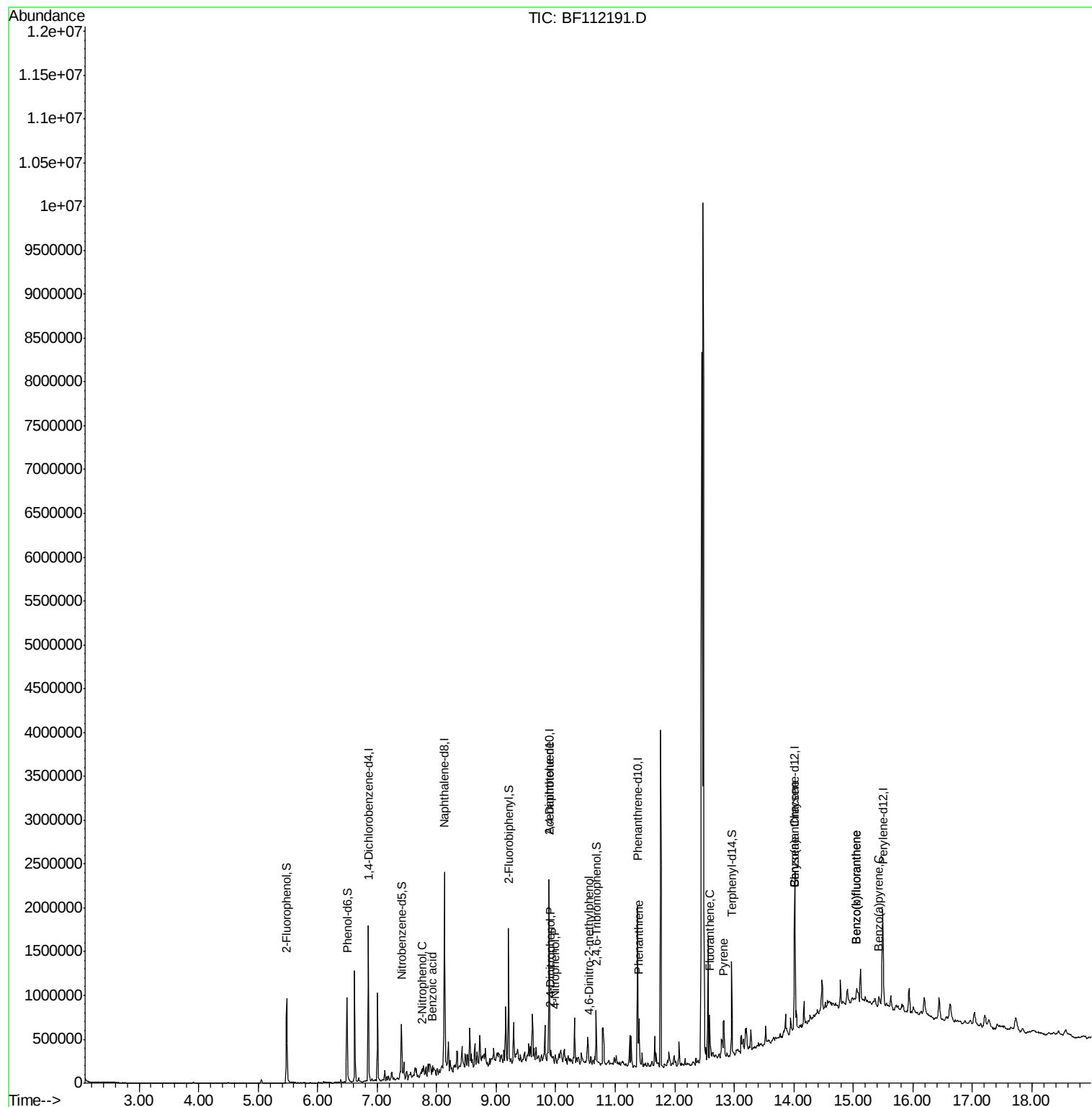
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.40	77	445	Below Cal		# 40
26) 2-Nitrophenol	7.76	139	1422	5.844	ng	# 1
32) Benzoic acid	7.92	122	901	7.339	ng	# 1
54) 2,4-Dinitrophenol	9.91	184	124	7.834	ng	# 1
56) 4-Nitrophenol	10.00	139	2073	6.056	ng	# 1
57) 2,4-Dinitrotoluene	9.89	165	55022	11.030	ng	# 32
65) 4,6-Dinitro-2-methylphenol	10.56	198	149	10.113	ng	# 1
71) Phenanthrene	11.40	178	187604	5.767	ng	97
75) Fluoranthene	12.59	202	203596	5.927	ng	95
78) Pyrene	12.82	202	173735	4.841	ng	97
81) Benzo(a)anthracene	14.00	228	79874	2.561	ng	95
83) Chrysene	14.00	228	79874	2.706	ng	92
88) Benzo(b)fluoranthene	15.06	252	98150	4.151	ng	# 79
89) Benzo(k)fluoranthene	15.06	252	98150	4.289	ng	# 80
90) Benzo(a)pyrene	15.43	252	49423	2.279	ng	# 81

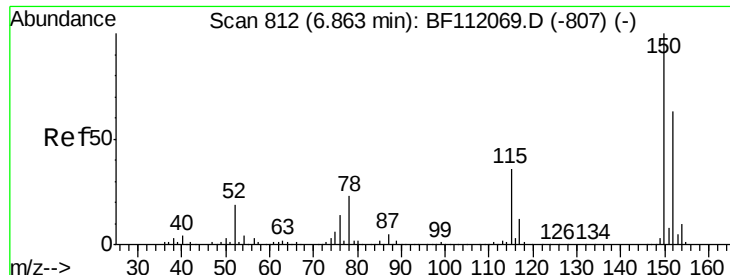
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BF112191.D

Acq: 22 Jan 2019 14:14

Instrument :

BNA_F

ClientSampleId :

PL-01-011819-C

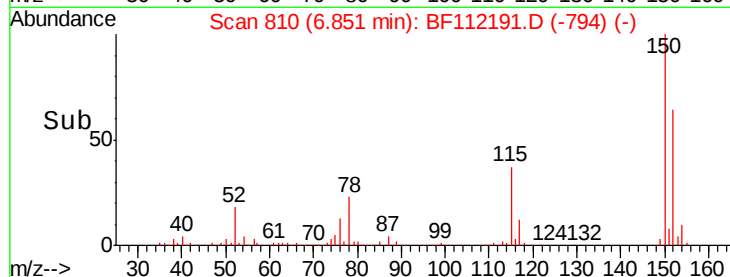
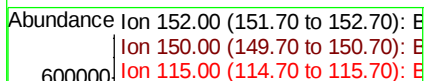
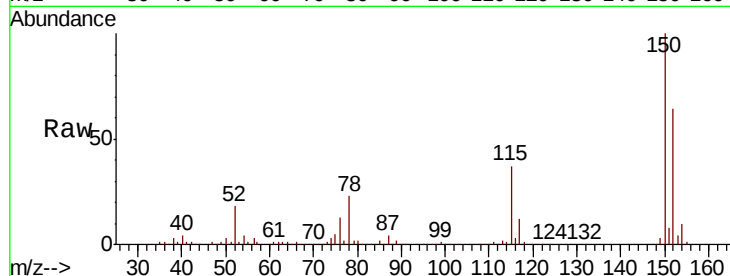
Tot Ion:152 Resp: 258895

Ion Ratio Lower Upper

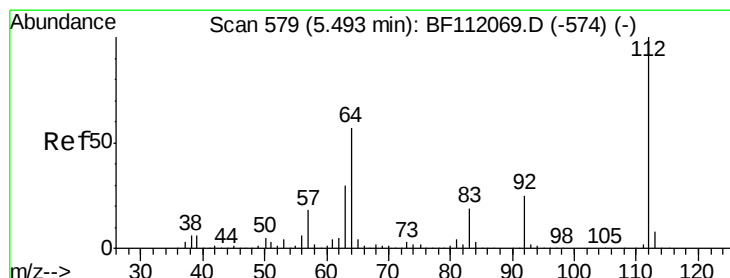
152 100

150 156.0 127.4 191.0

115 58.2 45.5 68.3



Time-->



#5

2-Fluorophenol

Concen: 20.092 ng

RT: 5.48 min Scan# 577

Delta R.T. -0.01 min

Lab File: BF112191.D

Acq: 22 Jan 2019 14:14

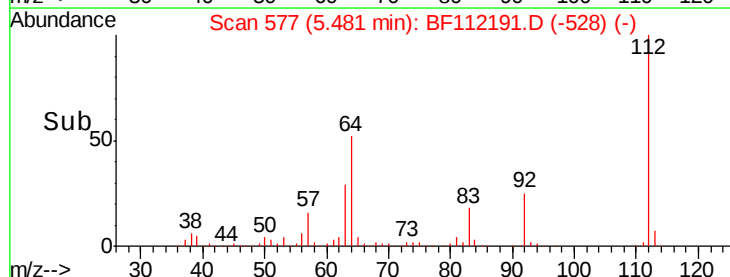
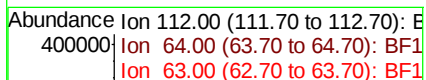
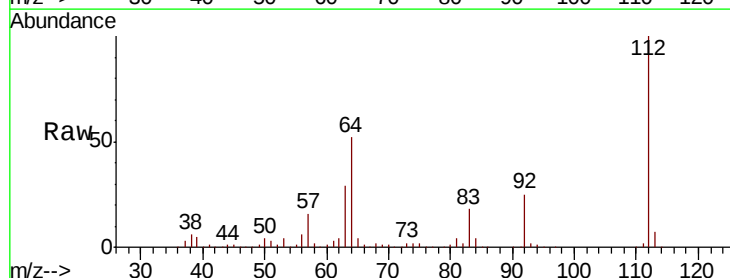
Tgt Ion:112 Resp: 286584

Ion Ratio Lower Upper

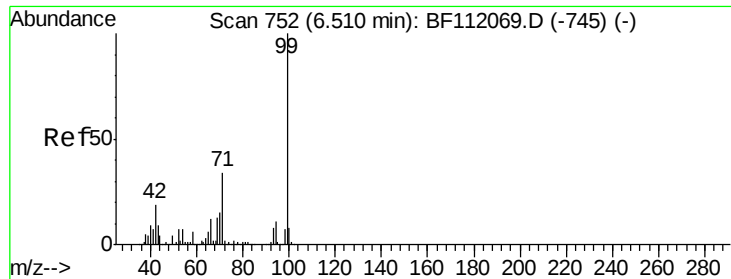
112 100

64 52.2 45.7 68.5

63 28.5 23.6 35.4



Time-->



#7

Phenol-d6

Concen: 20.536 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.01 min

Lab File: BF112191.D

Acq: 22 Jan 2019 14:14

Instrument :

BNA_F

ClientSampleId :

PL-01-011819-C

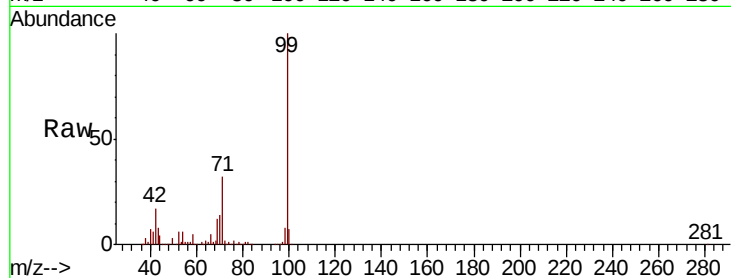
Tot Ion: 99 Resp: 366500

Ion Ratio Lower Upper

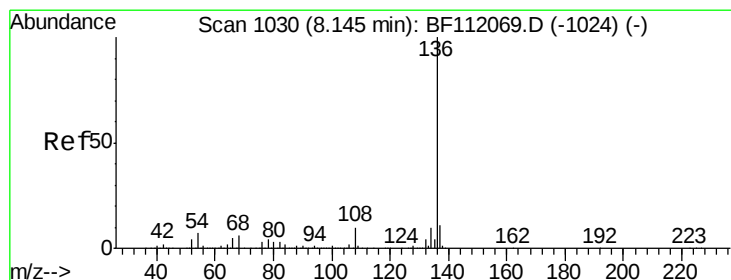
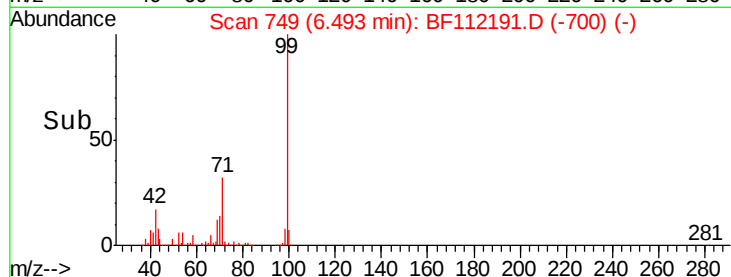
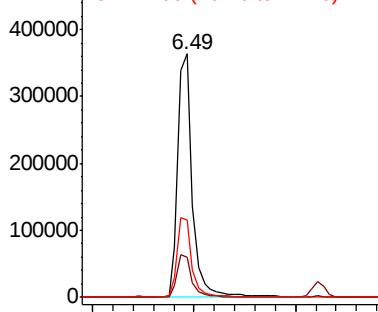
99 100

42 16.6 15.1 22.7

71 31.9 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: BF112191.D

Acq: 22 Jan 2019 14:14

Tgt Ion: 136 Resp: 972841

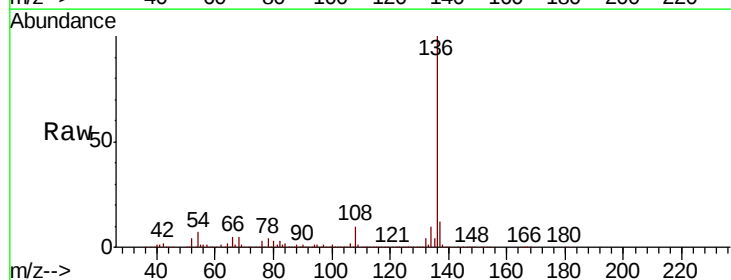
Ion Ratio Lower Upper

136 100

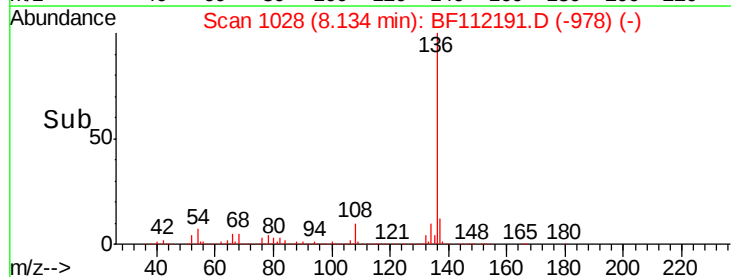
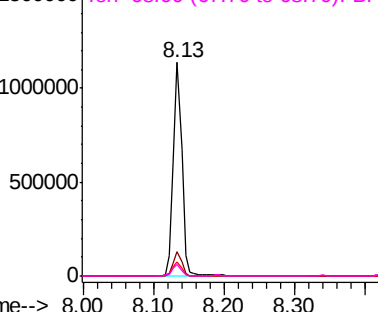
137 11.6 9.1 13.7

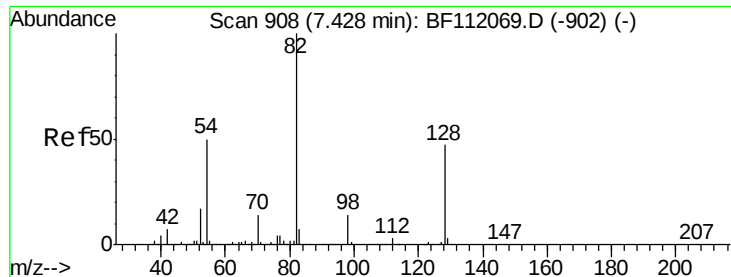
54 6.8 5.9 8.9

68 5.3 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

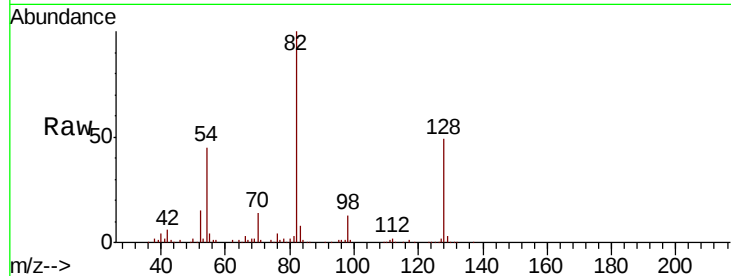




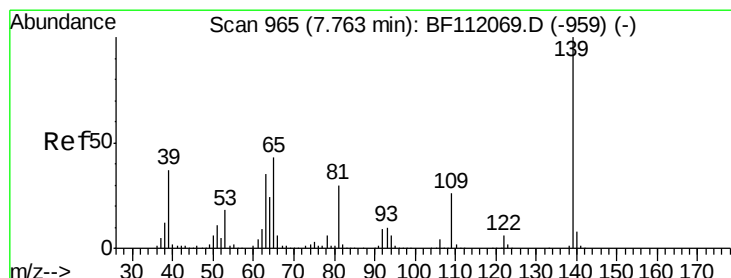
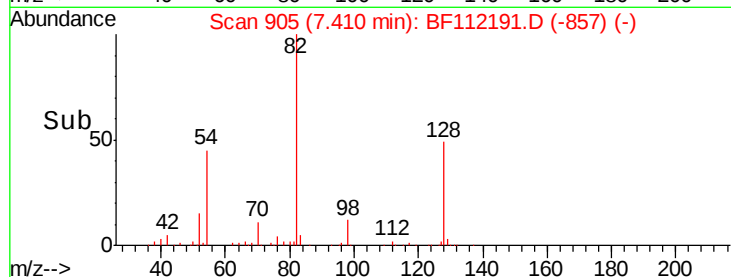
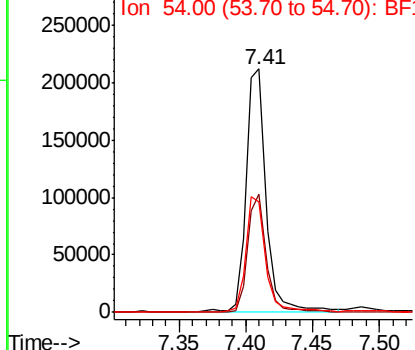
#23
Nitrobenzene-d5
Concen: 15.359 ng
RT: 7.41 min Scan# 905
Delta R.T. -0.02 min
Lab File: BF112191.D
Acq: 22 Jan 2019 14:14

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

Tot Ion	82	Resp	216266
Ion Ratio	100	Lower	Upper
128	48.7	37.8	56.8
54	45.4	39.7	59.5

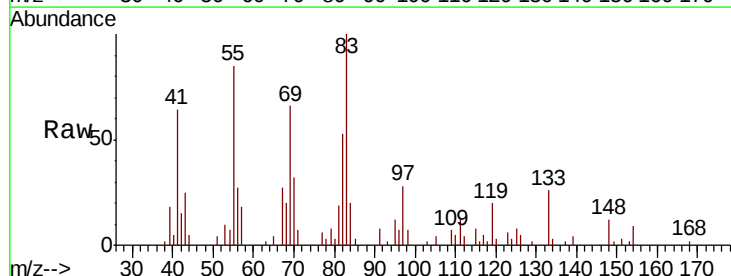


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

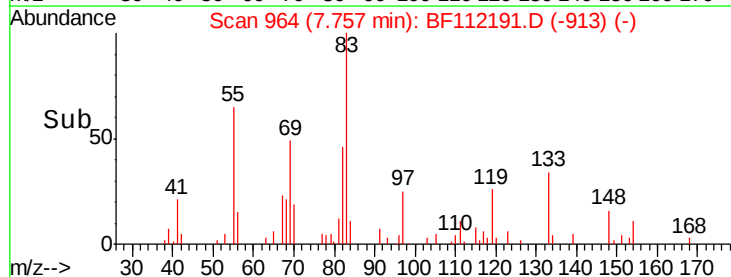
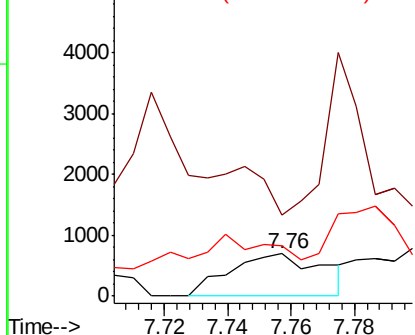


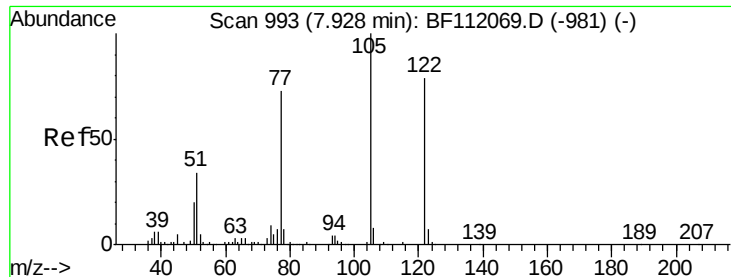
#26
2-Nitrophenol
Concen: 5.844 ng
RT: 7.76 min Scan# 964
Delta R.T. 0.00 min
Lab File: BF112191.D
Acq: 22 Jan 2019 14:14

Tgt Ion	139	Resp	1422
Ion Ratio	100	Lower	Upper
109	191.5	20.8	31.2#
65	120.8	34.4	51.6#



Abundance Ion 139.00 (138.70 to 139.70): BF1
Ion 109.00 (108.70 to 109.70): BF1
Ion 65.00 (64.70 to 65.70): BF1

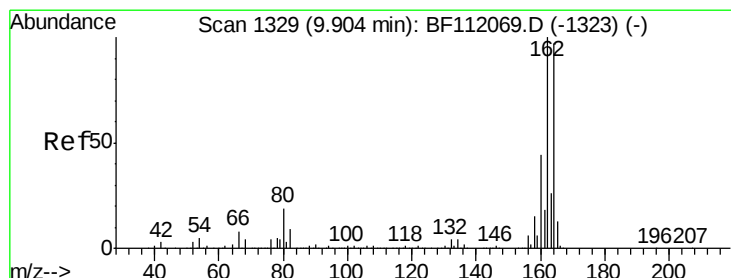
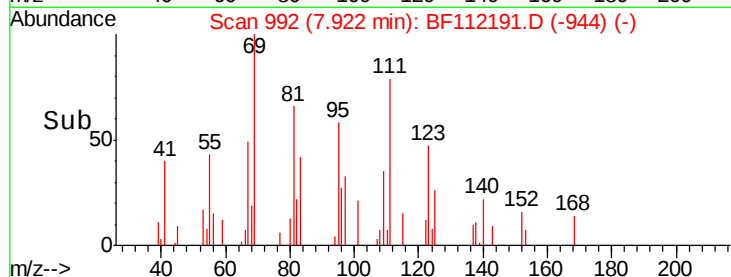
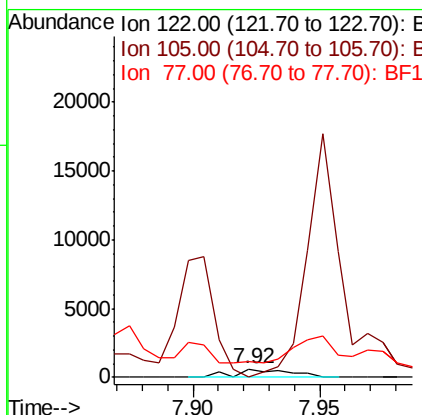
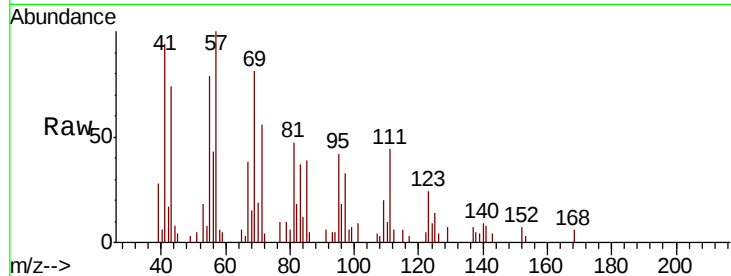




#32
Benzoic acid
Concen: 7.339 ng
RT: 7.92 min Scan# 992
Delta R.T. -0.02 min
Lab File: BF112191.D
Acq: 22 Jan 2019 14:14

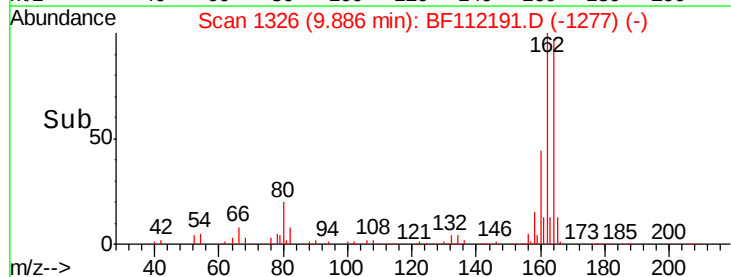
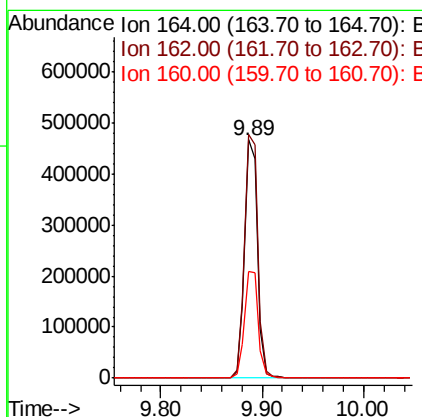
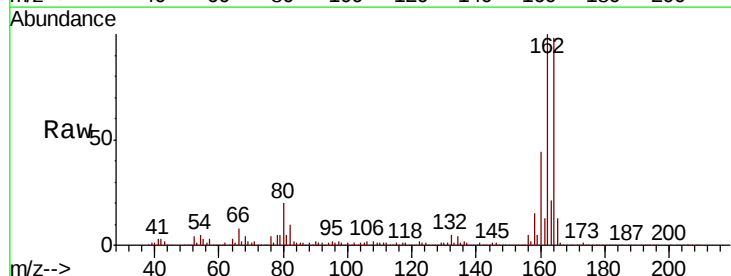
Instrument :
BNA_F
ClientSampleId :
PL-01-011819-C

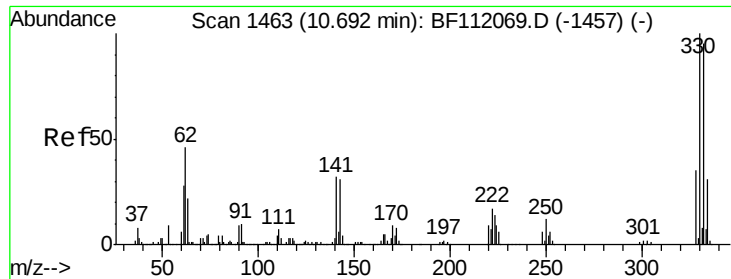
Tot Ion:122 Resp: 901
Ion Ratio Lower Upper
122 100
105 0.0 101.2 141.2#
77 197.3 70.4 110.4#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1326
Delta R.T. -0.01 min
Lab File: BF112191.D
Acq: 22 Jan 2019 14:14

Tgt Ion:164 Resp: 412848
Ion Ratio Lower Upper
164 100
162 102.2 82.2 123.4
160 45.0 36.2 54.4

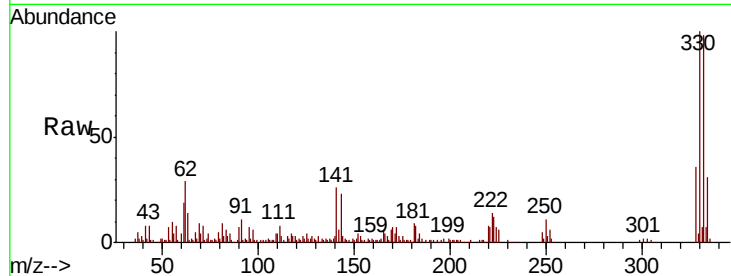




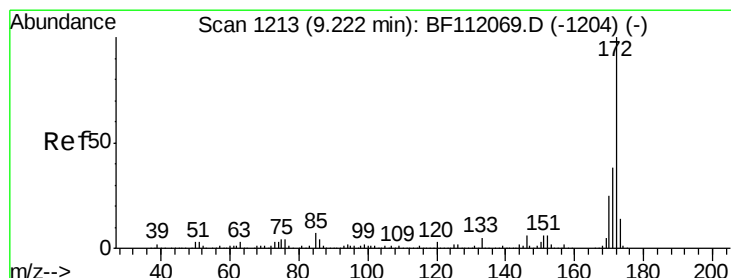
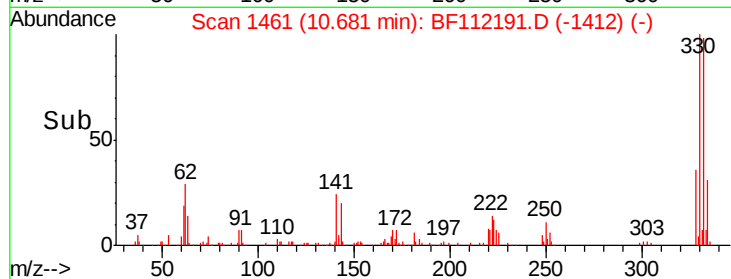
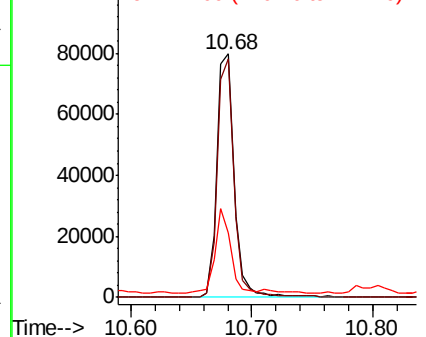
#42
 2,4,6-Tribromophenol
 Concen: 17.625 ng
 RT: 10.68 min Scan# 1461
 Delta R.T. -0.01 min
 Lab File: BF112191.D
 Acq: 22 Jan 2019 14:14

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

Tot Ion	Ratio	Lower	Upper
330	100		
332	94.6	76.6	114.8
141	30.8	24.3	36.5

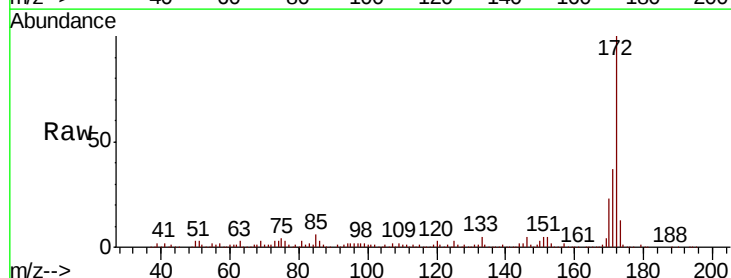


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

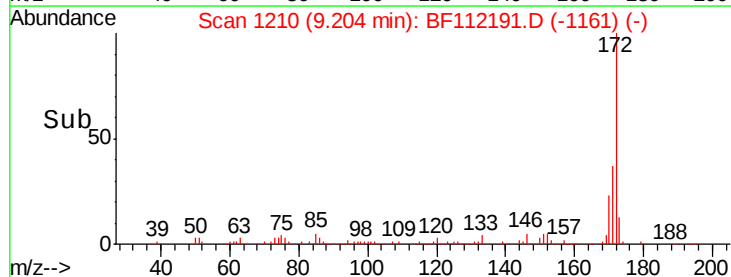
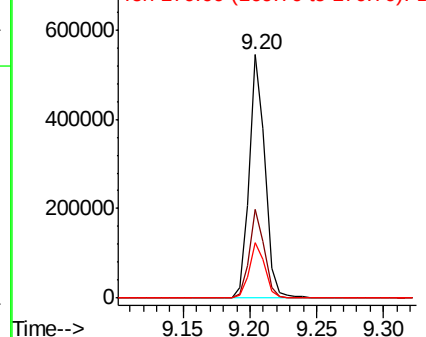


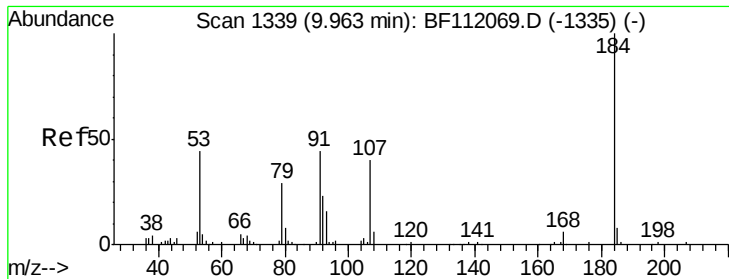
#45
 2-Fluorobiphenyl
 Concen: 15.707 ng
 RT: 9.20 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: BF112191.D
 Acq: 22 Jan 2019 14:14

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.7	30.5	45.7
170	22.8	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





#54

2,4-Dinitrophenol

Concen: 7.834 ng

RT: 9.91 min Scan# 1330

Delta R.T. -0.05 min

Lab File: BF112191.D

Acq: 22 Jan 2019 14:14

Instrument :

BNA_F

ClientSampleId :

PL-01-011819-C

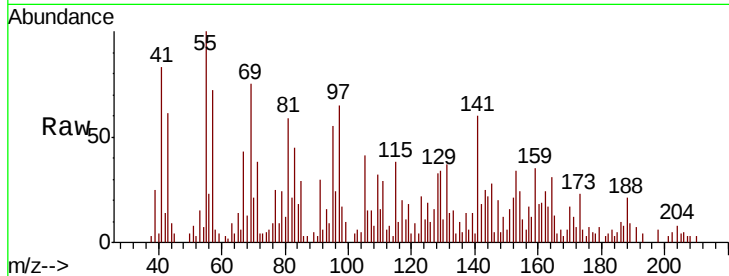
Tot Ion:184 Resp: 124

Ion Ratio Lower Upper

184 100

63 300.3 47.1 70.7#

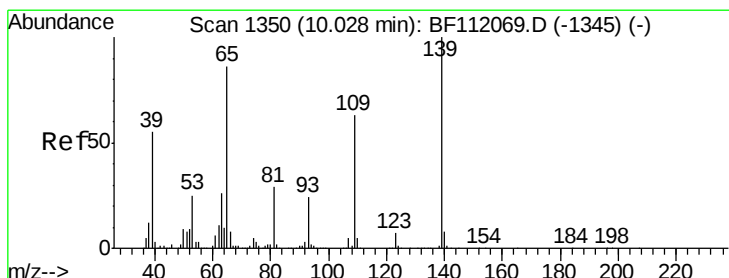
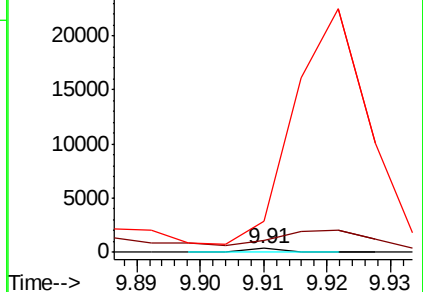
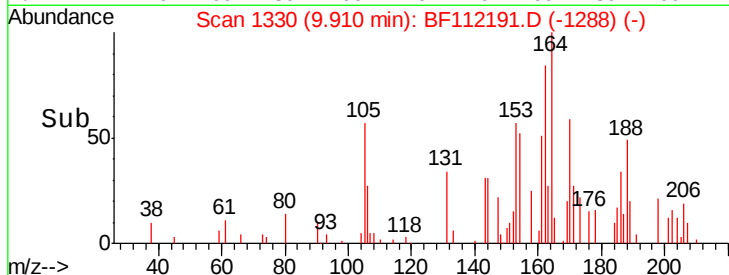
154 826.8 48.9 73.3#



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: 6.056 ng

RT: 10.00 min Scan# 1345

Delta R.T. -0.03 min

Lab File: BF112191.D

Acq: 22 Jan 2019 14:14

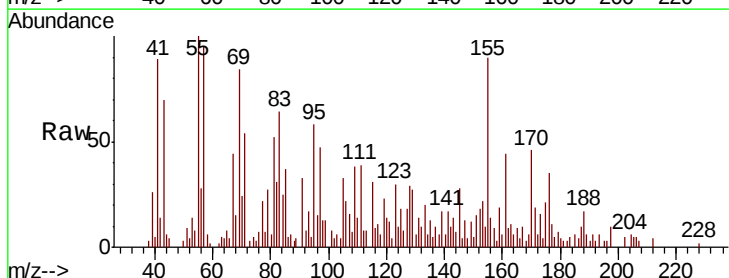
Tgt Ion:139 Resp: 2073

Ion Ratio Lower Upper

139 100

109 221.4 42.8 82.8#

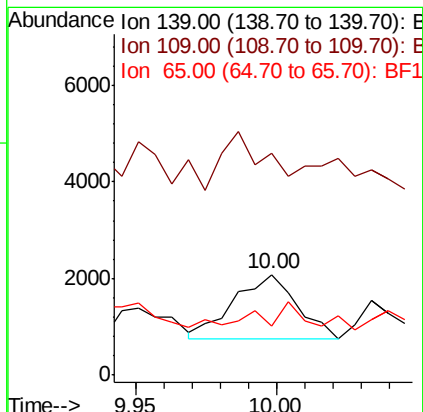
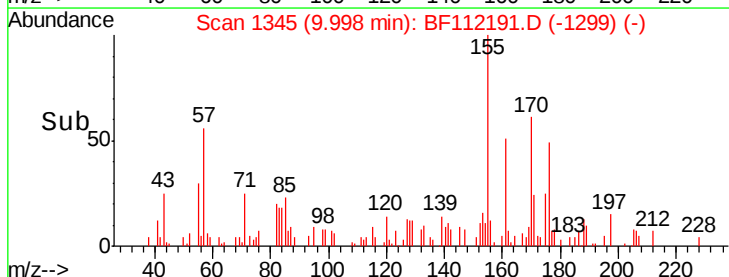
65 48.9 66.1 106.1#

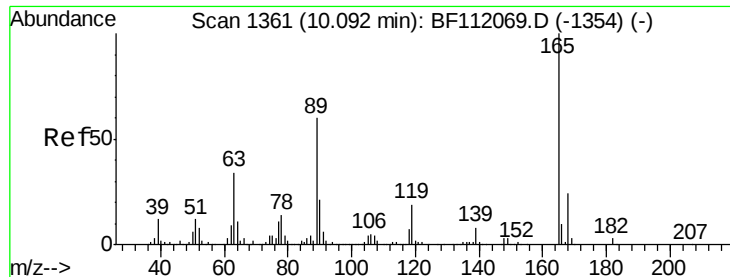


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1





#57

2,4-Dinitrotoluene

Concen: 11.030 ng

RT: 9.89 min Scan# 1326

Delta R.T. -0.20 min

Lab File: BF112191.D

Acq: 22 Jan 2019 14:14

Instrument :

BNA_F

ClientSampleId :

PL-01-011819-C

Tot Ion:165 Resp: 55022

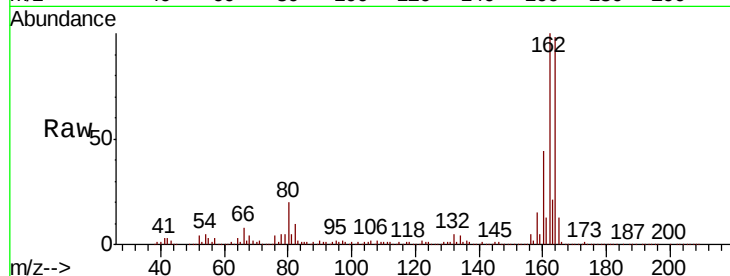
Ion Ratio Lower Upper

165 100

63 2.1 27.9 41.9#

89 1.8 47.9 71.9#

182 1.2 2.2 3.4#

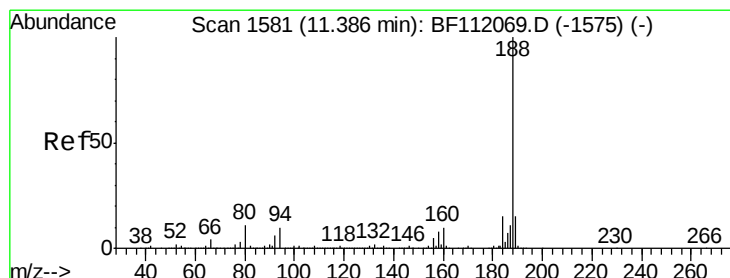
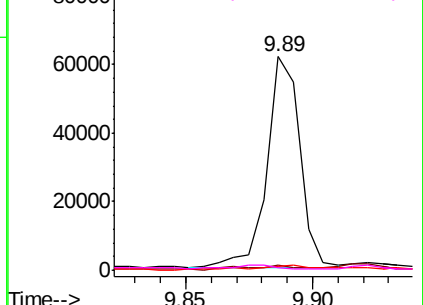
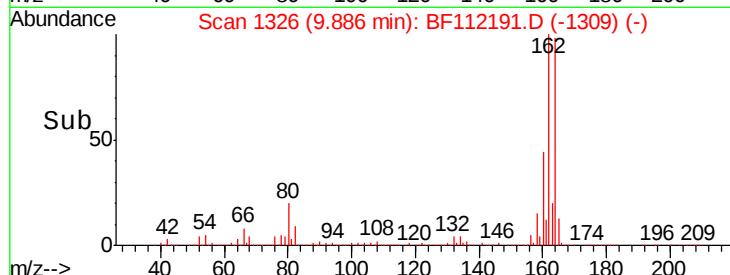


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.37 min Scan# 1579

Delta R.T. -0.01 min

Lab File: BF112191.D

Acq: 22 Jan 2019 14:14

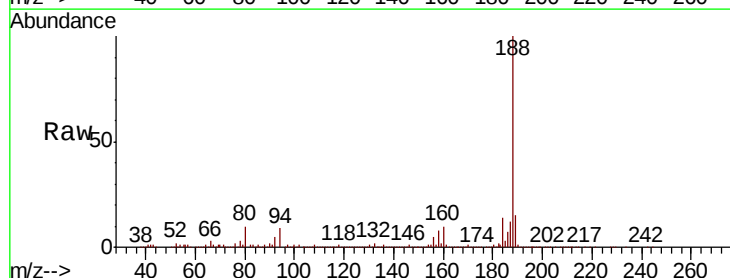
Tgt Ion:188 Resp: 646447

Ion Ratio Lower Upper

188 100

94 9.4 8.2 12.2

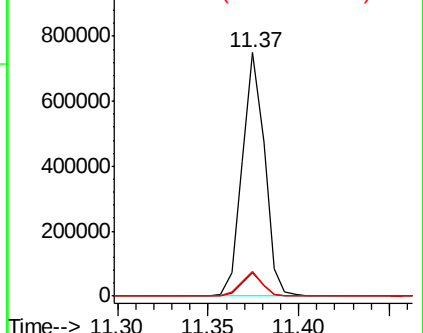
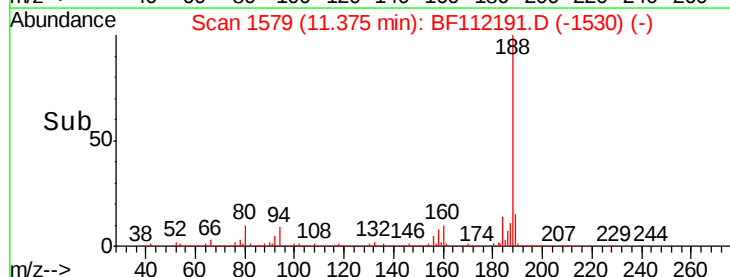
80 10.0 8.9 13.3

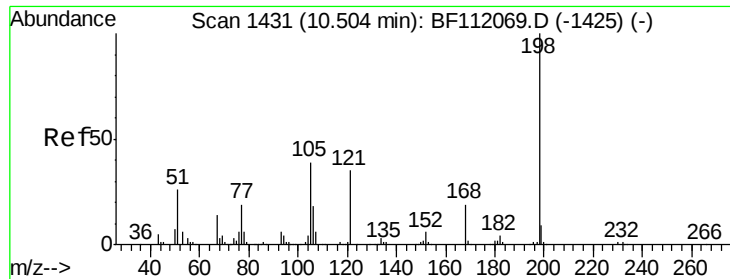


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#65

4,6-Dinitro-2-methylphenol

Concen: 10.113 ng

RT: 10.56 min Scan# 1441

Delta R.T. 0.06 min

Lab File: BF112191.D

Acq: 22 Jan 2019 14:14

Instrument :

BNA_F

ClientSampleId :

PL-01-011819-C

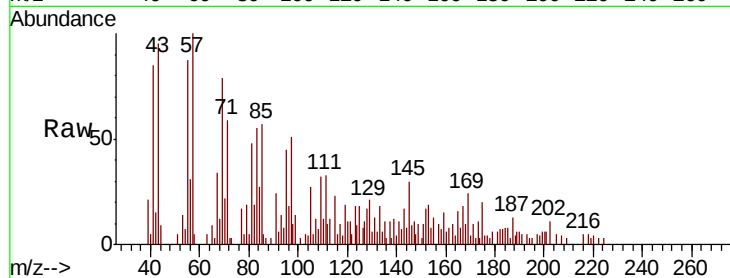
Tot Ion:198 Resp: 149

Ion Ratio Lower Upper

198 100

51 143.9 17.2 57.2#

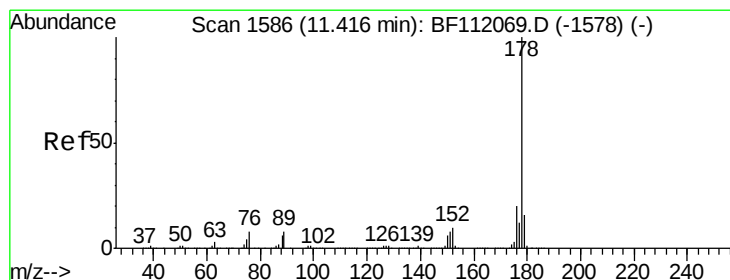
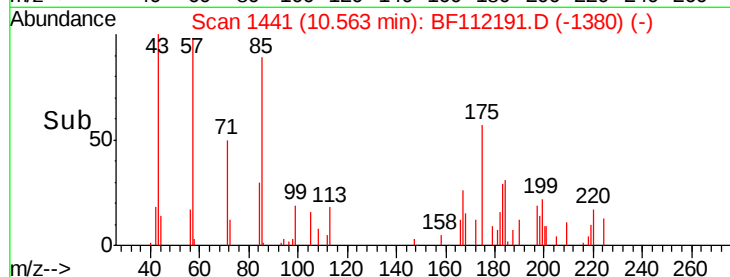
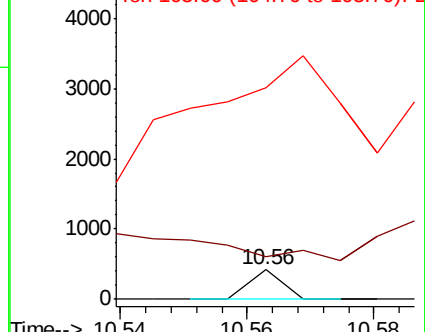
105 716.4 21.9 61.9#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E



#71

Phenanthrene

Concen: 5.767 ng

RT: 11.40 min Scan# 1583

Delta R.T. -0.01 min

Lab File: BF112191.D

Acq: 22 Jan 2019 14:14

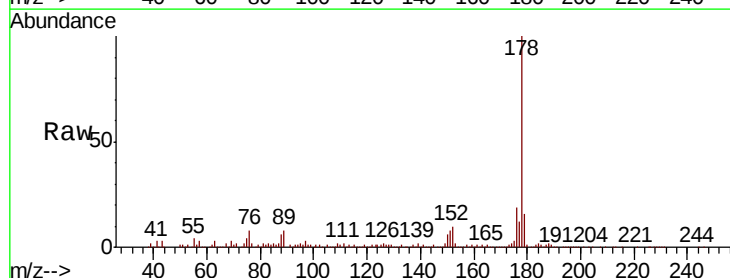
Tgt Ion:178 Resp: 187604

Ion Ratio Lower Upper

178 100

176 18.5 16.3 24.5

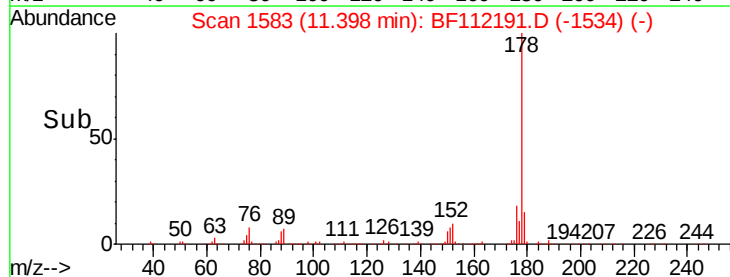
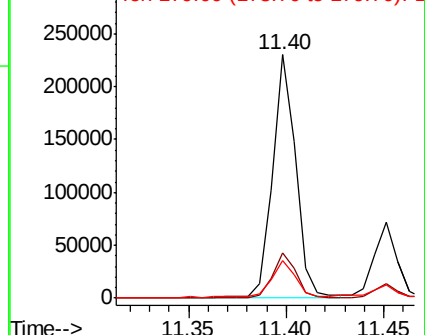
179 15.6 13.0 19.4

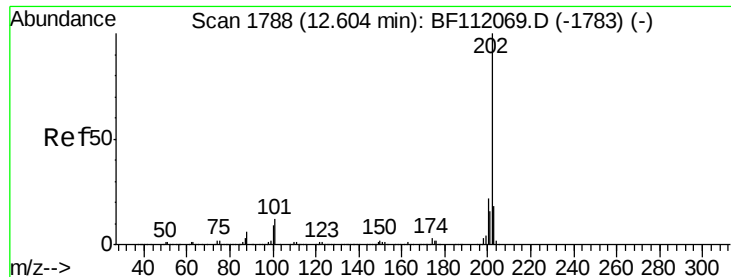


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 5.927 ng

RT: 12.59 min Scan# 1786

Delta R.T. -0.01 min

Lab File: BF112191.D

Acq: 22 Jan 2019 14:14

Instrument :

BNA_F

ClientSampleId :

PL-01-011819-C

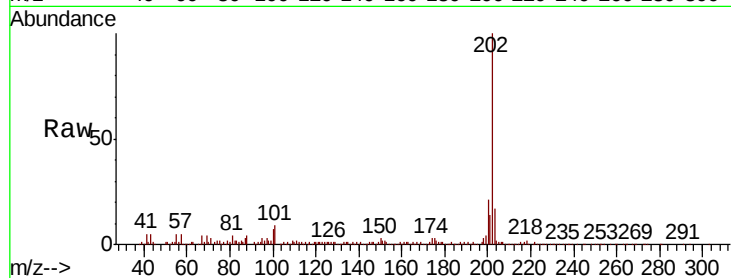
Tot Ion:202 Resp: 203596

Ion Ratio Lower Upper

202 100

101 9.3 0.0 31.8

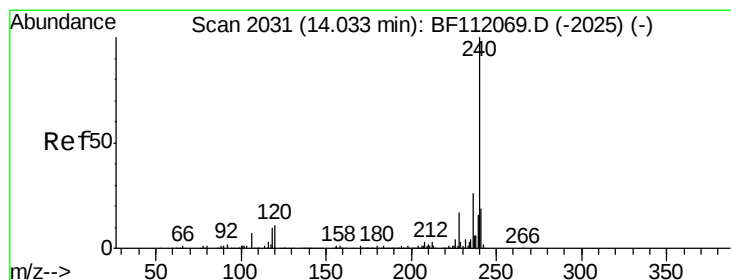
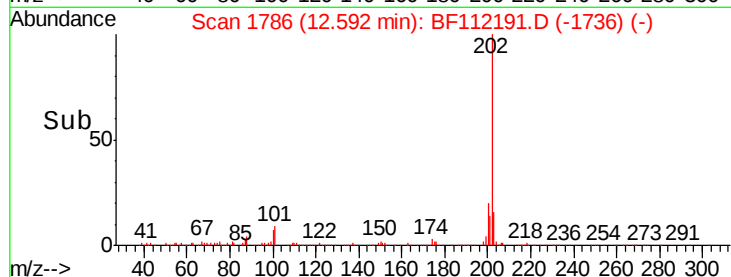
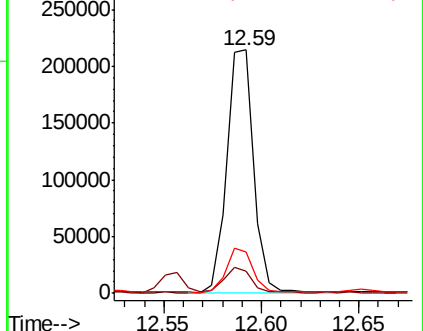
203 16.9 0.0 38.4



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: 14.02 min Scan# 2028

Delta R.T. -0.01 min

Lab File: BF112191.D

Acq: 22 Jan 2019 14:14

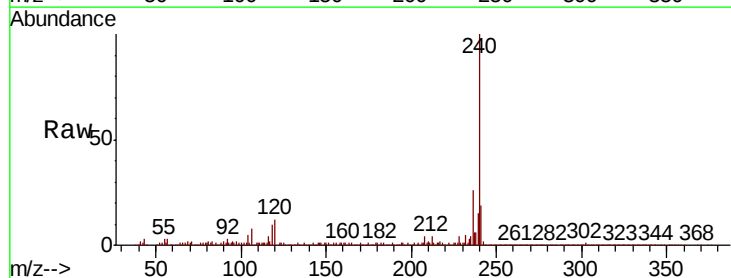
Tgt Ion:240 Resp: 543981

Ion Ratio Lower Upper

240 100

120 11.5 9.0 13.6

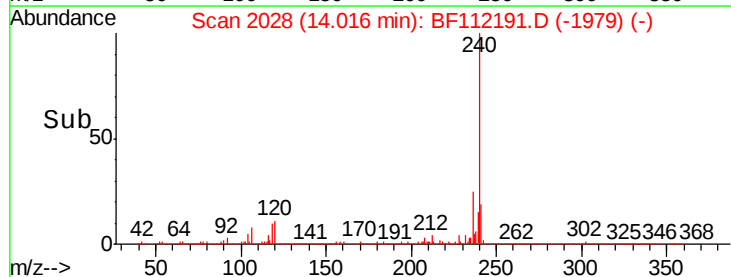
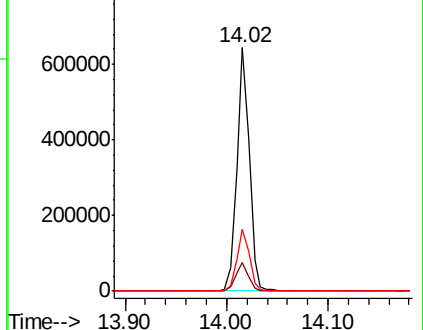
236 25.6 20.7 31.1

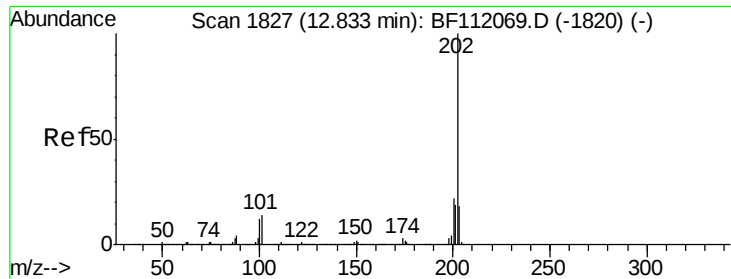


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

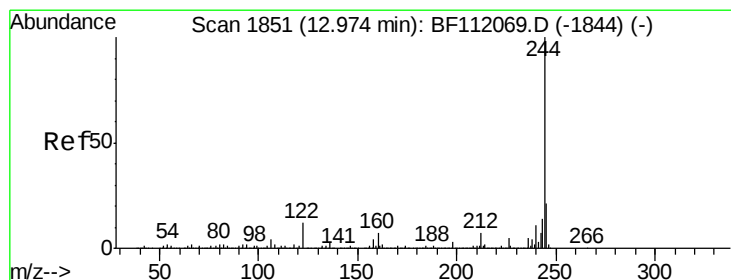
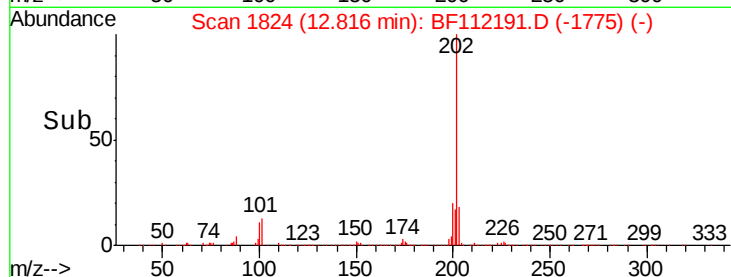
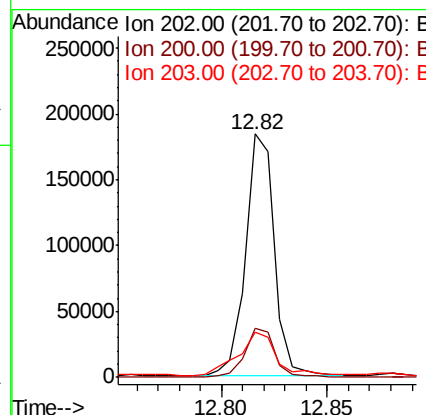
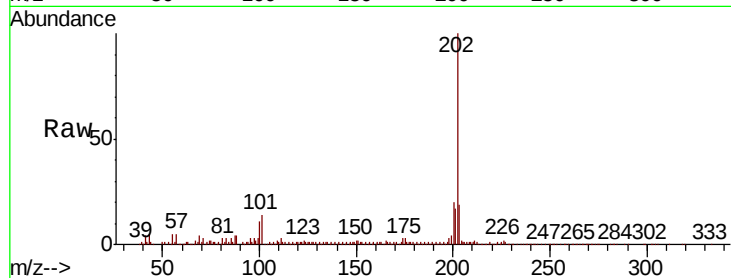




#78
Pvrene
Concen: 4.841 ng
RT: 12.82 min Scan# 1824
Delta R.T. -0.01 min
Lab File: BF112191.D
Acq: 22 Jan 2019 14:14

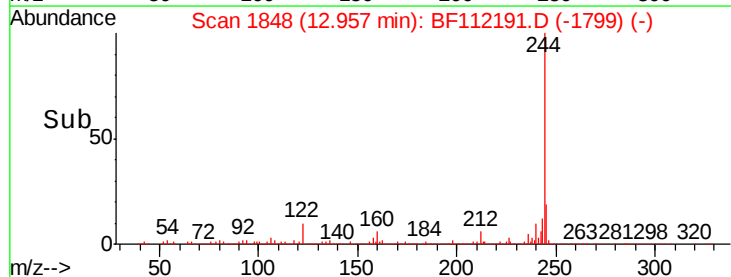
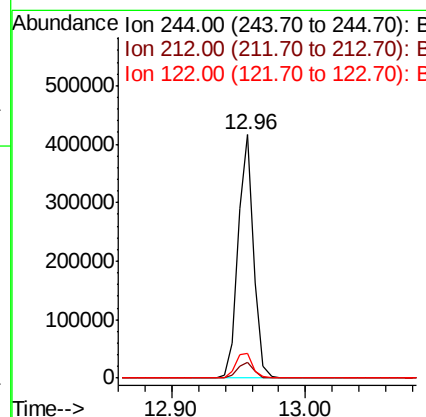
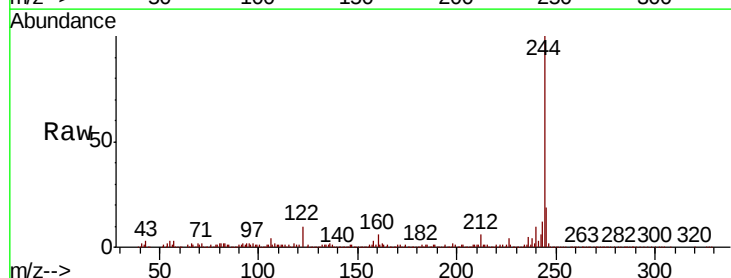
Instrument :
BNA_F
ClientSampleId :
PL-01-011819-C

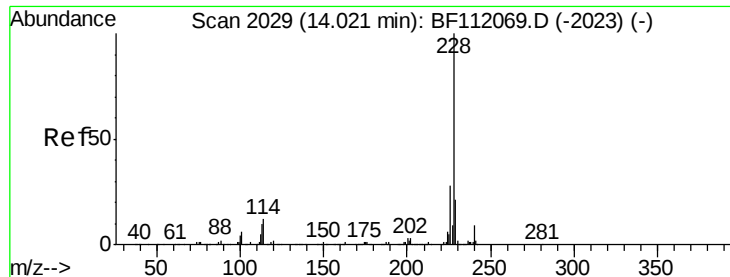
Tot Ion	Ratio	Lower	Upper
202	100		
200	20.1	17.7	26.5
203	18.8	14.6	22.0



#79
Terphenyl-d14
Concen: 13.301 ng
RT: 12.96 min Scan# 1848
Delta R.T. -0.01 min
Lab File: BF112191.D
Acq: 22 Jan 2019 14:14

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.9	8.9
122	10.2	9.8	14.6





#81

Benzo(a)anthracene

Concen: 2.561 ng

RT: 14.00 min Scan# 2026

Delta R.T. -0.01 min

Lab File: BF112191.D

Acq: 22 Jan 2019 14:14

Instrument :

BNA_F

ClientSampleId :

PL-01-011819-C

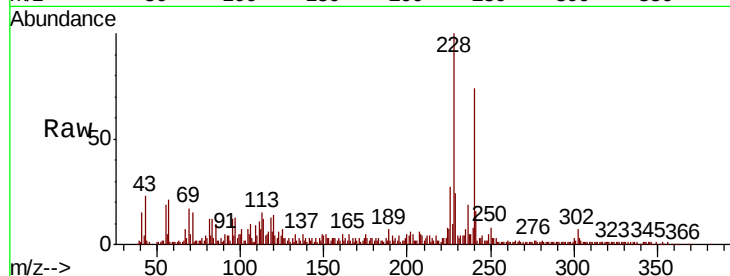
Tot Ion:228 Resp: 79874

Ion Ratio Lower Upper

228 100

226 26.6 22.6 34.0

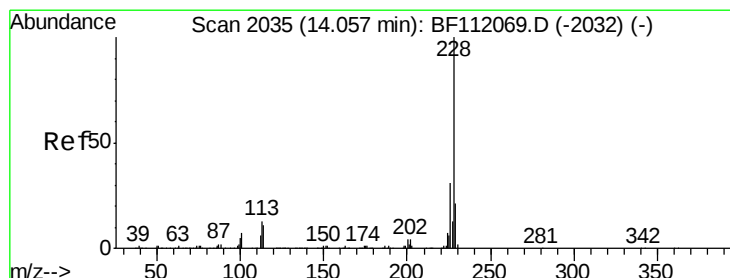
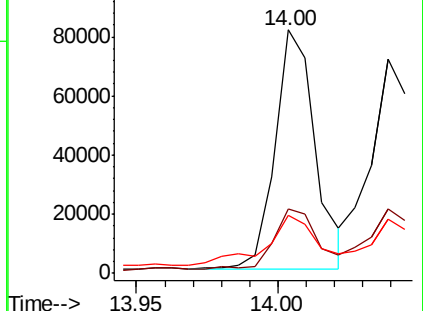
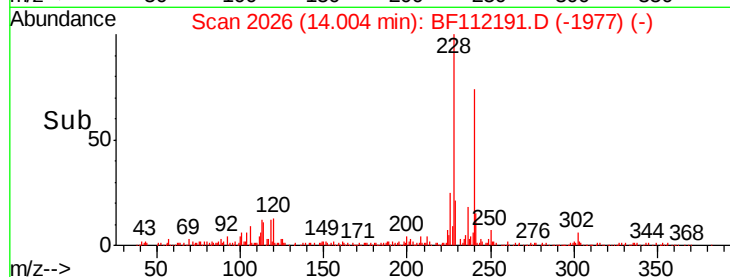
229 23.8 16.5 24.7



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: 2.706 ng

RT: 14.00 min Scan# 2026

Delta R.T. -0.05 min

Lab File: BF112191.D

Acq: 22 Jan 2019 14:14

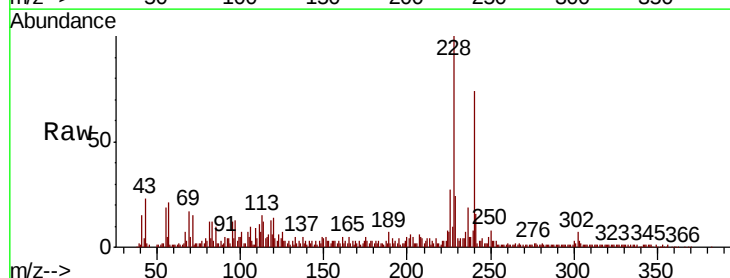
Tgt Ion:228 Resp: 79874

Ion Ratio Lower Upper

228 100

226 26.6 25.0 37.6

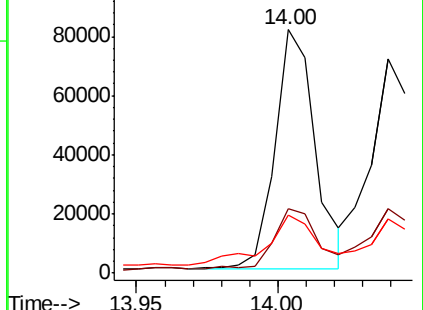
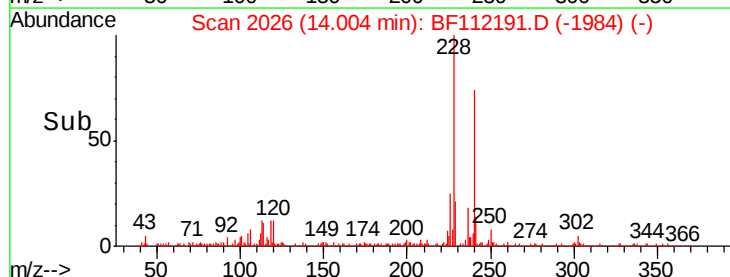
229 23.8 16.6 24.8

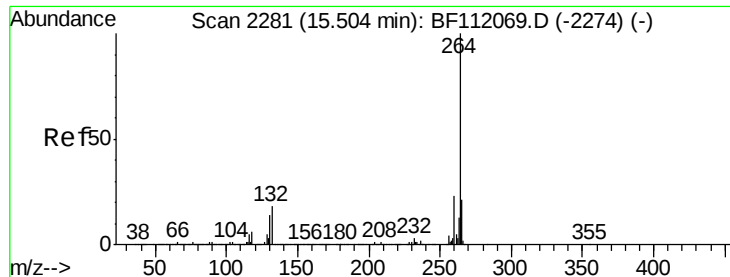


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

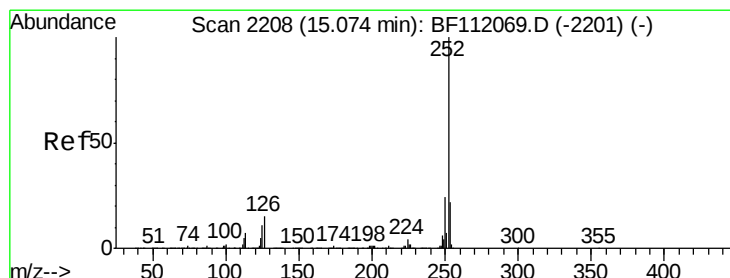
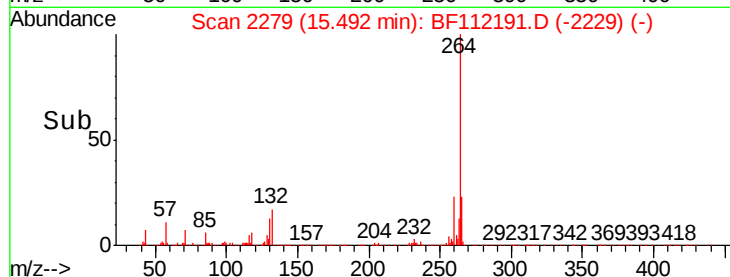
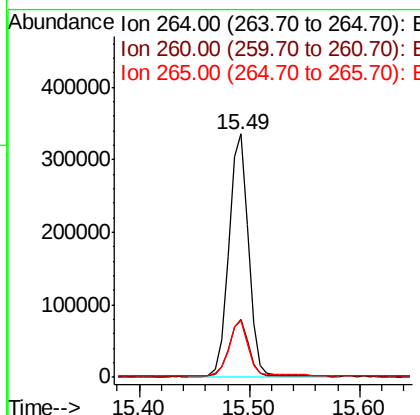
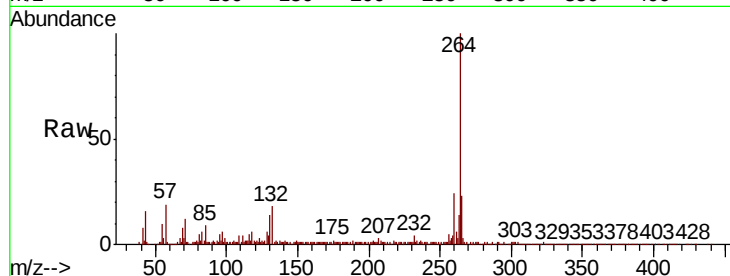




#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.49 min Scan# 2279
Delta R.T. -0.01 min
Lab File: BF112191.D
Acq: 22 Jan 2019 14:14

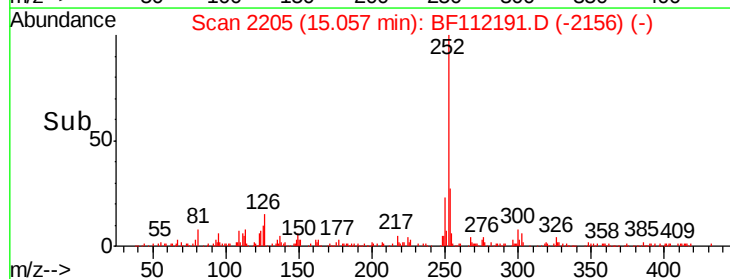
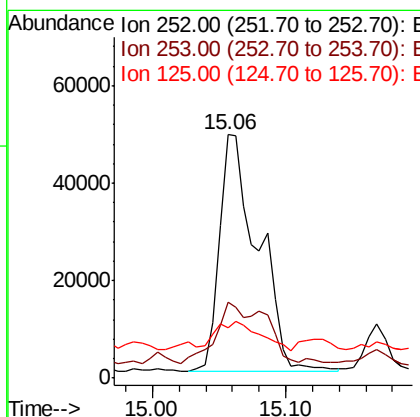
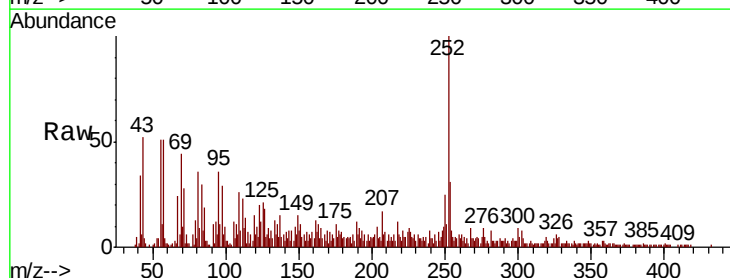
Instrument :
BNA_F
ClientSampleId :
PL-01-011819-C

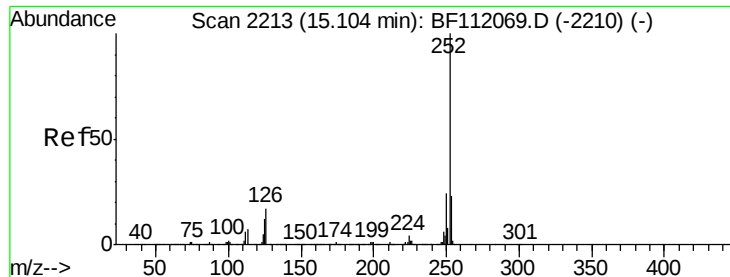
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.2	27.2
265	23.1	17.0	25.4



#88
Benzo(b)fluoranthene
Concen: 4.151 ng
RT: 15.06 min Scan# 2205
Delta R.T. -0.01 min
Lab File: BF112191.D
Acq: 22 Jan 2019 14:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	31.4	18.0	27.0#
125	20.8	8.7	13.1#

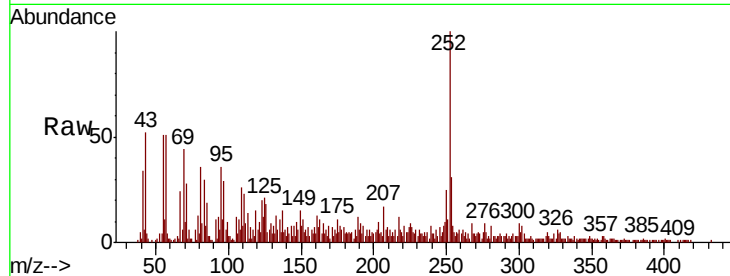




#89
Benzo(k)fluoranthene
Concen: 4.289 ng
RT: 15.06 min Scan# 2205
Delta R.T. -0.04 min
Lab File: BF112191.D
Acq: 22 Jan 2019 14:14

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

Tot Ion	Ratio	Lower	Upper
252	100		
253	31.4	18.0	27.0#
125	20.8	9.1	13.7#

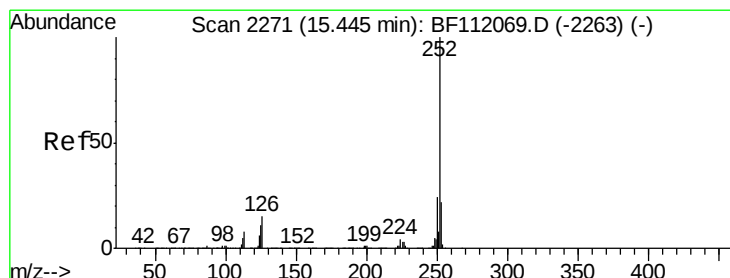
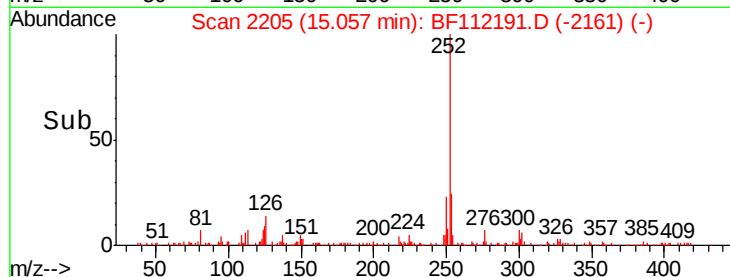
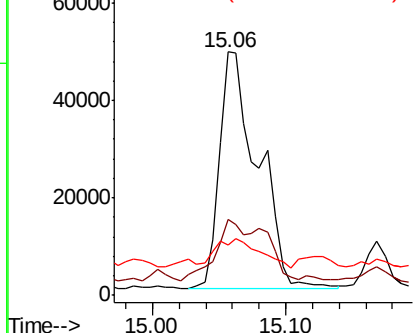


Abundance

Ion 252.00 (251.70 to 252.70): E

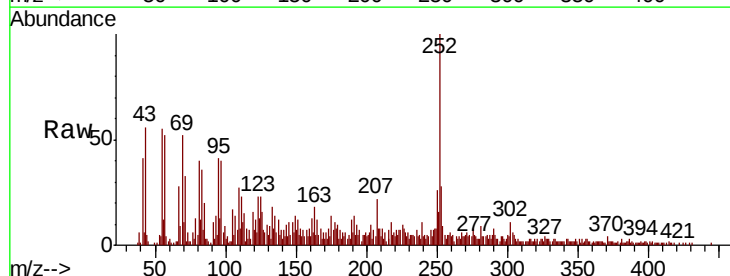
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90
Benzo(a)pyrene
Concen: 2.279 ng
RT: 15.43 min Scan# 2268
Delta R.T. -0.01 min
Lab File: BF112191.D
Acq: 22 Jan 2019 14:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	28.1	17.5	26.3#
125	22.6	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

