

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF012419\
 Data File : BF112217.D
 Acq On : 24 Jan 2019 19:05
 Operator : JU/SJ
 Sample : K1223-05 2X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TS-Q

Quant Time: Jan 25 00:04:13 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	6.86	152	238790	20.00	ng	0.00
21) Naphthalene-d8	8.14	136	918248	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	418319	20.00	ng	0.00
64) Phenanthrene-d10	11.38	188	664978	20.00	ng	0.00
76) Chrysene-d12	14.03	240	482706	20.00	ng	0.00
87) Perylene-d12	15.51	264	343870	20.00	ng	0.01

System Monitoring Compounds

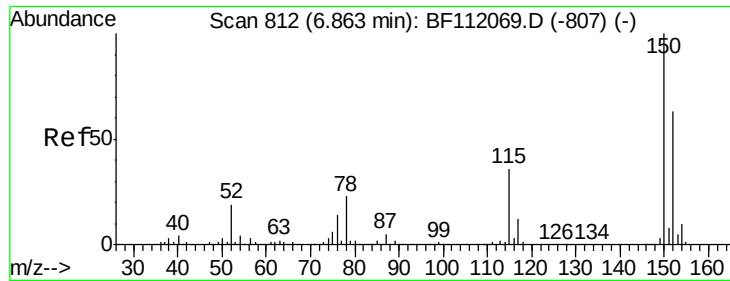
5) 2-Fluorophenol	5.49	112	519049	39.45	ng	0.00
7) Phenol-d6	6.50	99	638235	38.77	ng	0.00
23) Nitrobenzene-d5	7.42	82	387813	29.18	ng	-0.01
42) 2,4,6-Tribromophenol	10.69	330	165222	36.61	ng	0.00
45) 2-Fluorobiphenyl	9.21	172	732640	25.68	ng	0.00
79) Terphenyl-d14	12.96	244	519151	22.88	ng	0.00

Target Compounds

						Qvalue
9) Benzaldehyde	6.41	77	564	Below Cal		90
10) Phenol	6.51	94	45448	2.526 ng		82
19) n-Nitroso-di-n-propylamine	7.42	70	51023	5.088 ng	#	77
25) Isophorone	7.42	82	384910	14.994 ng	#	64
32) Benzoic acid	7.92	122	745	7.318 ng	#	53
50) Dimethylphthalate	9.60	163	94929	3.112 ng		98
56) 4-Nitrophenol	9.99	139	1134	5.871 ng	#	8
57) 2,4-Dinitrotoluene	9.89	165	58257	11.320 ng	#	32
58) Fluorene	10.44	166	63270	2.291 ng		100
65) 4,6-Dinitro-2-methylphenol	10.69	198	488	10.209 ng	#	1
71) Phenanthrene	11.40	178	448288	13.396 ng		97
72) Anthracene	11.46	178	120623	3.558 ng		97
75) Fluoranthene	12.60	202	419690	11.878 ng		98
78) Pyrene	12.83	202	333543	10.473 ng		99
81) Benzo(a)anthracene	14.02	228	149798	5.412 ng		98
83) Chrysene	14.05	228	126964	4.848 ng		96
88) Benzo(b)fluoranthene	15.07	252	167988	8.606 ng	#	88
89) Benzo(k)fluoranthene	15.07	252	167988	8.892 ng	#	89
90) Benzo(a)pyrene	15.44	252	82370	4.601 ng	#	86
92) Benzo(g,h,i)perylene	17.45	276	44076	2.814 ng	#	86

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

```
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Operator  : JU/SJ  
Sample    : K1223-05 2X  
Misc      :  
ALS Vial  : 14      Sample Multiplier: 1
```

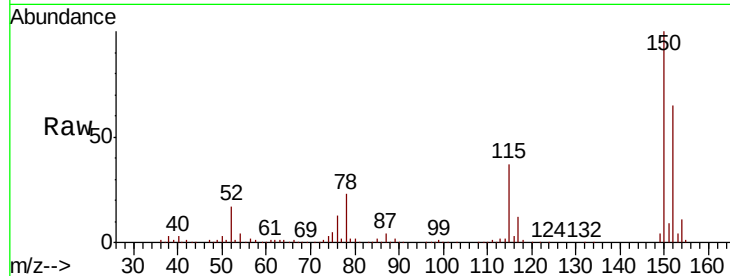


#1

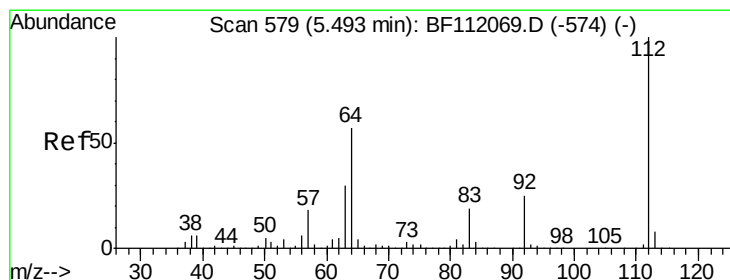
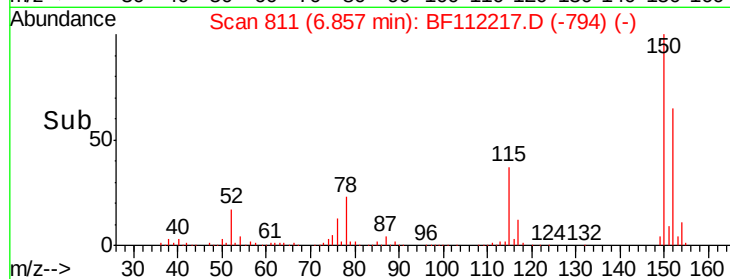
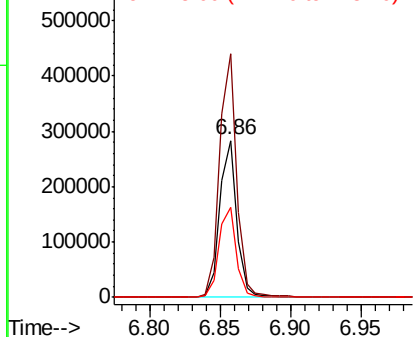
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.86 min Scan# 811
Delta R.T. 0.00 min
Lab File: BF112217.D
Acq: 24 Jan 2019 19:05

Instrument :
BNA_F
ClientSampleId :
TS-Q

Tgt Ion:152 Resp: 238790
Ion Ratio Lower Upper
152 100
150 155.0 127.4 191.0
115 57.3 45.5 68.3



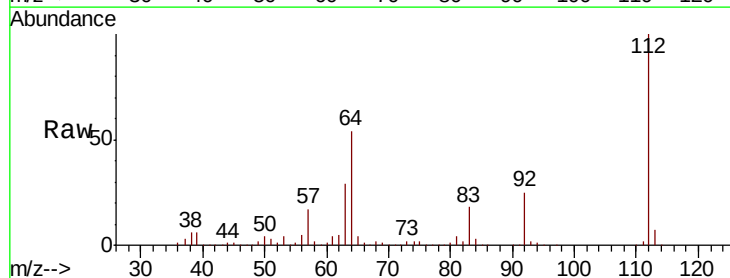
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



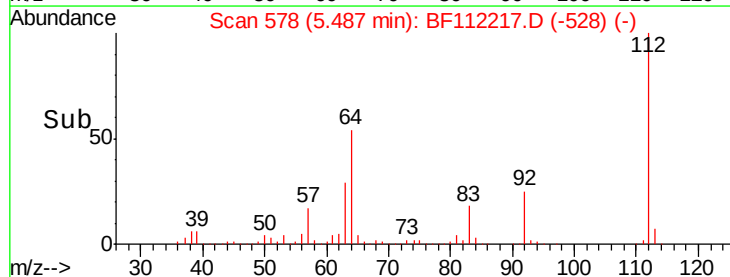
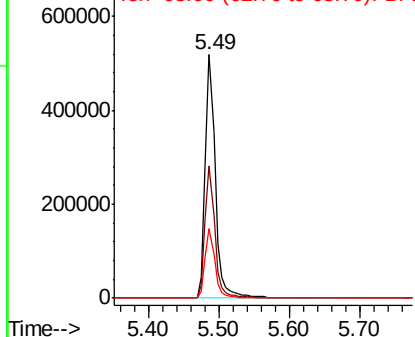
#5

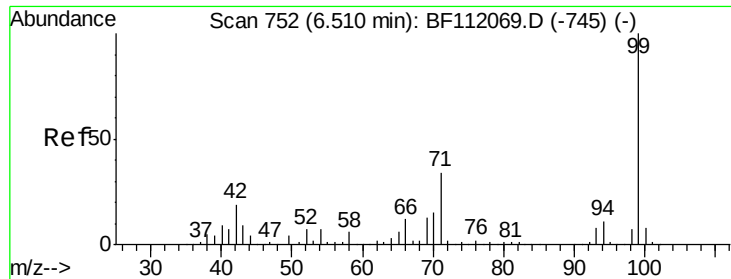
2-Fluorophenol
Concen: 39.453 ng
RT: 5.49 min Scan# 578
Delta R.T. -0.01 min
Lab File: BF112217.D
Acq: 24 Jan 2019 19:05

Tgt Ion:112 Resp: 519049
Ion Ratio Lower Upper
112 100
64 54.5 45.7 68.5
63 28.6 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: 38.774 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.01 min

Lab File: BF112217.D

Acq: 24 Jan 2019 19:05

Instrument :

BNA_F

ClientSampleId :

TS-Q

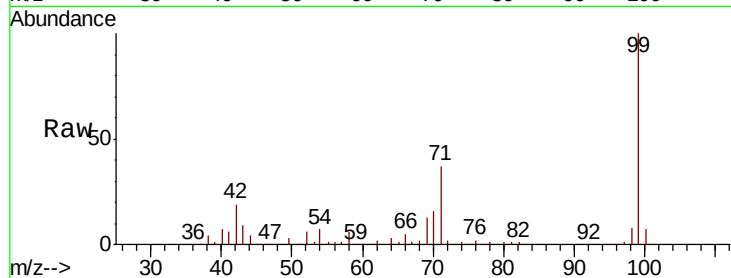
Tgt Ion: 99 Resp: 638235

Ion Ratio Lower Upper

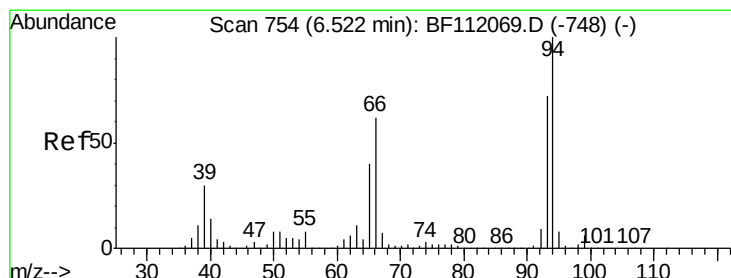
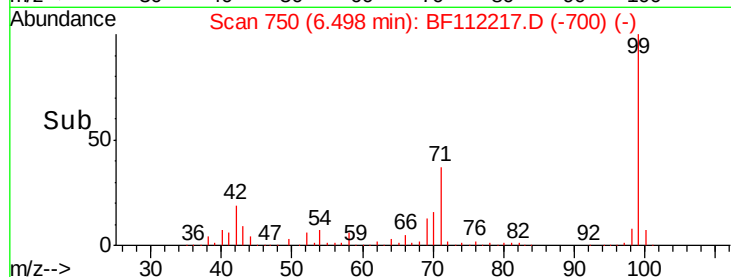
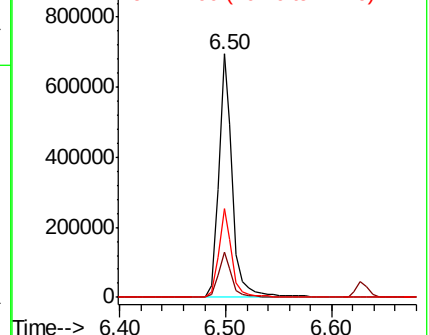
99 100

42 18.7 15.1 22.7

71 36.5 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: 2.526 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.01 min

Lab File: BF112217.D

Acq: 24 Jan 2019 19:05

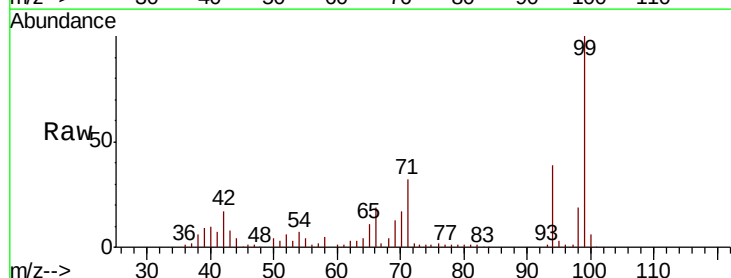
Tgt Ion: 94 Resp: 45448

Ion Ratio Lower Upper

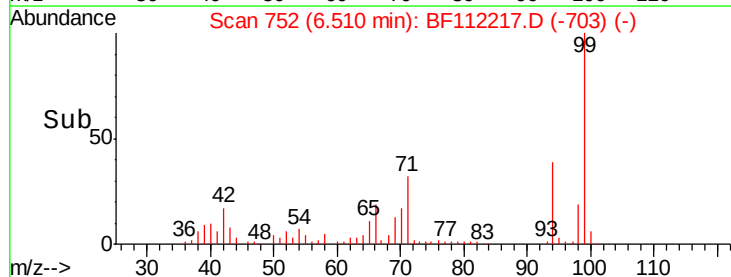
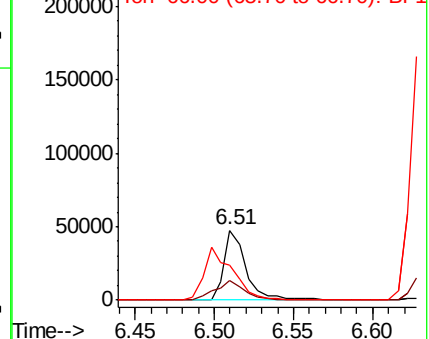
94 100

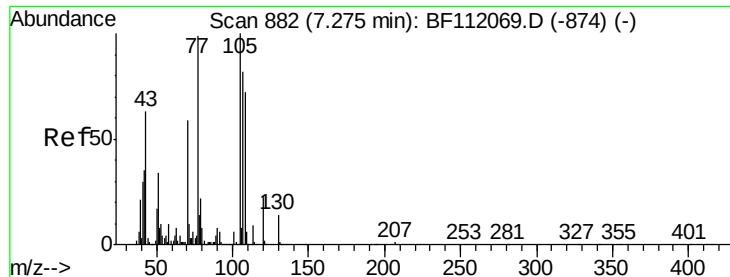
65 27.9 20.3 60.3

66 49.8 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

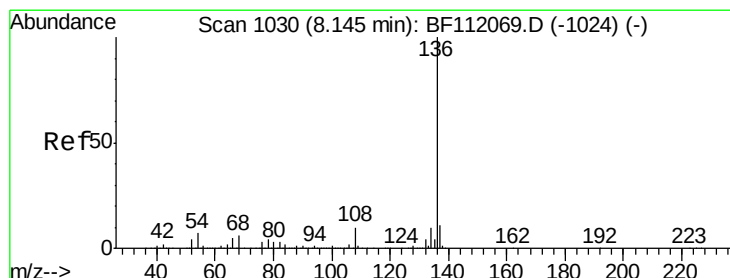
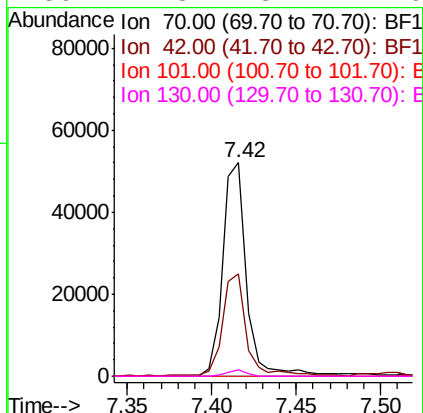
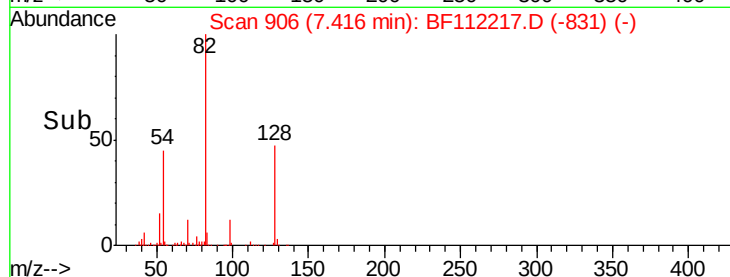
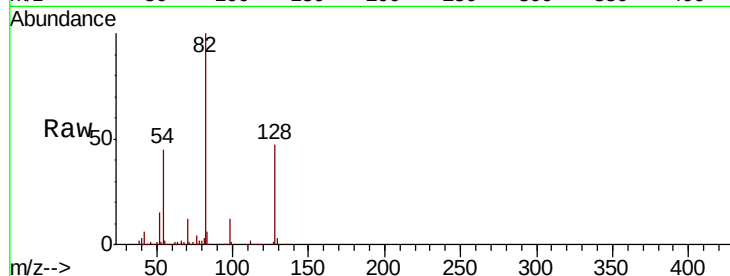




#19
n-Nitroso-di-n-propylamine
Concen: 5.088 ng
RT: 7.42 min Scan# 906
Delta R.T. 0.14 min
Lab File: BF112217.D
Acq: 24 Jan 2019 19:05

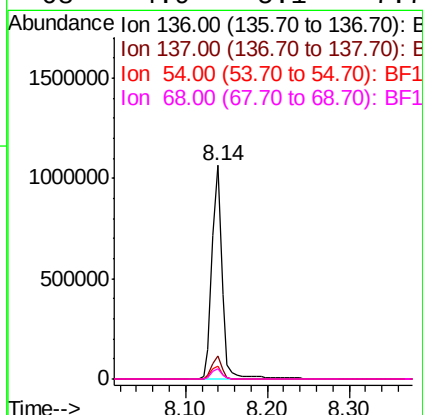
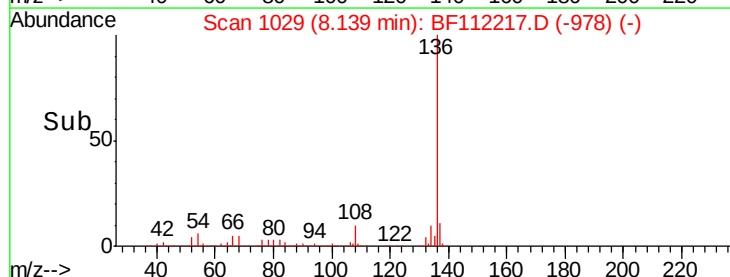
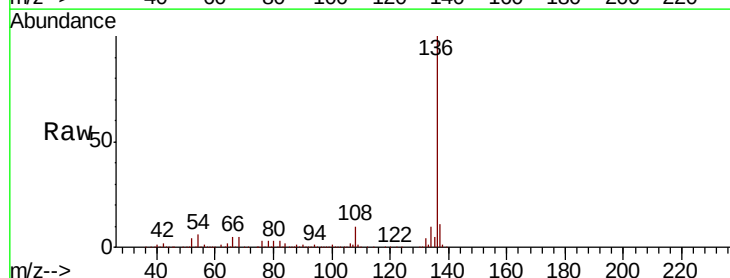
Instrument :
BNA_F
ClientSampleId :
TS-Q

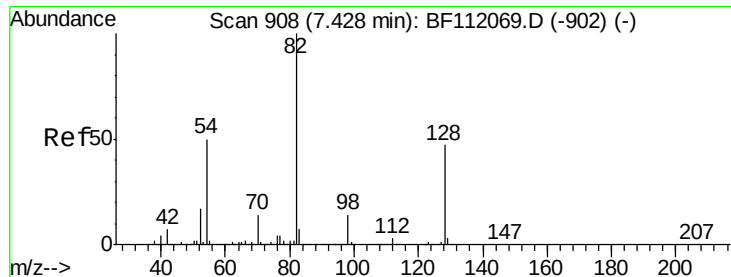
Tgt Ion:	70	Resp:	51023
Ion	Ratio	Lower	Upper
70	100		
42	48.1	47.6	71.4
101	0.0	7.9	11.9#
130	2.8	18.4	27.6#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.14 min Scan# 1029
Delta R.T. 0.00 min
Lab File: BF112217.D
Acq: 24 Jan 2019 19:05

Tgt Ion:	136	Resp:	918248
Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.1	13.7
54	6.2	5.9	8.9
68	4.9	5.1	7.7#

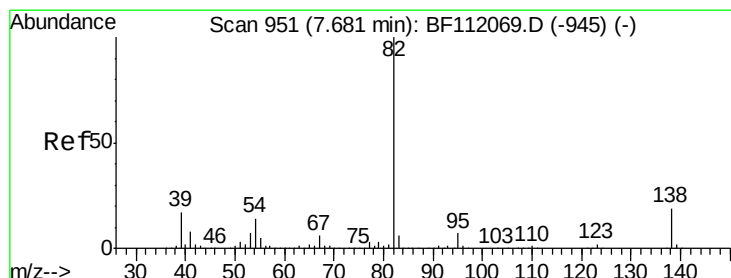
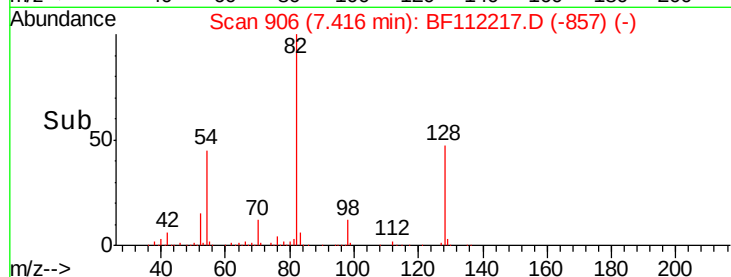
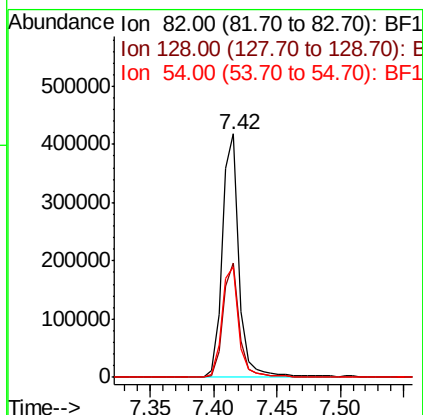
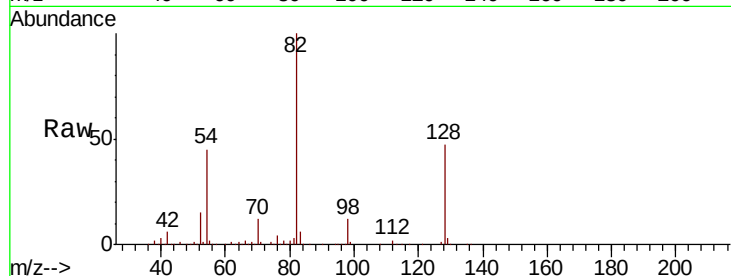




#23
Nitrobenzene-d5
Concen: 29.179 ng
RT: 7.42 min Scan# 906
Delta R.T. -0.01 min
Lab File: BF112217.D
Acq: 24 Jan 2019 19:05

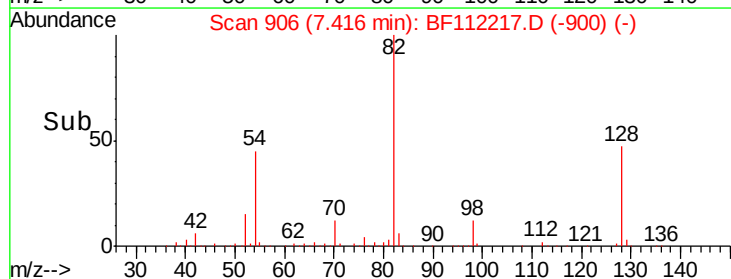
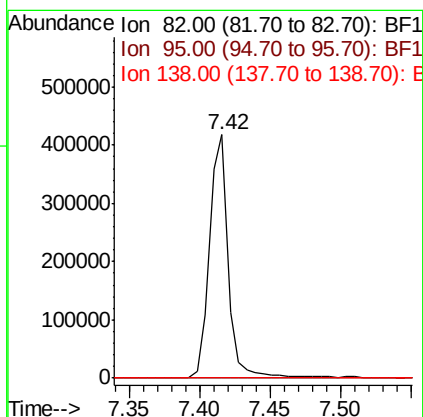
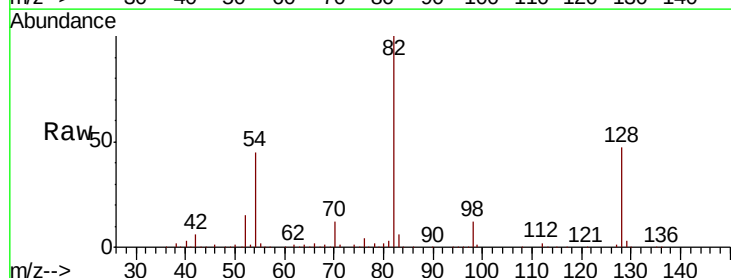
Instrument :
BNA_F
ClientSampleId :
TS-Q

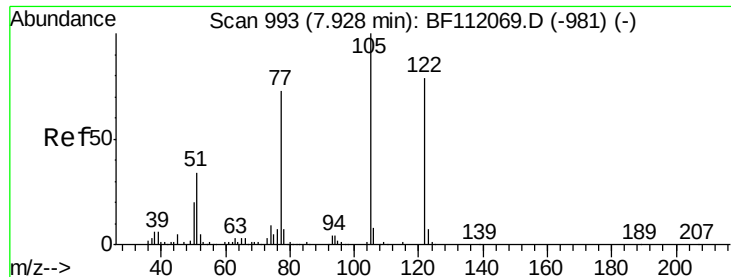
Tgt Ion	Ratio	Lower	Upper
82	100		
128	47.1	37.8	56.8
54	45.3	39.7	59.5



#25
Isophorone
Concen: 14.994 ng
RT: 7.42 min Scan# 906
Delta R.T. -0.26 min
Lab File: BF112217.D
Acq: 24 Jan 2019 19:05

Tgt Ion	Ratio	Lower	Upper
82	100		
95	0.1	5.7	8.5#
138	0.0	15.4	23.0#

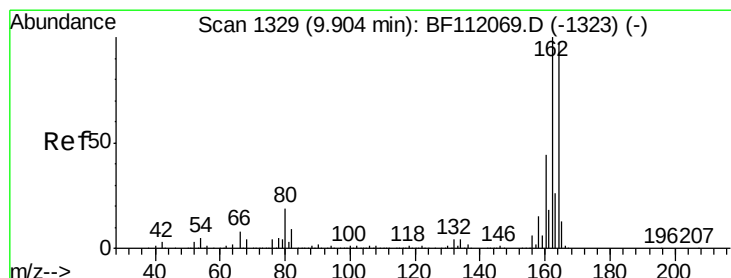
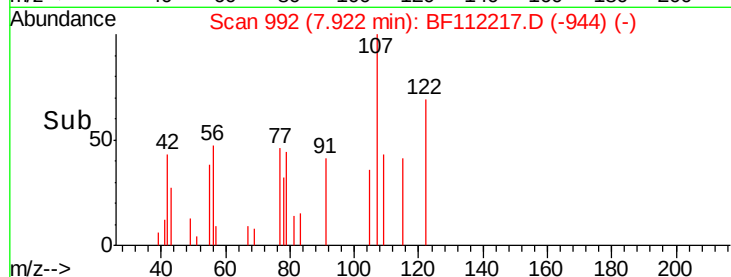
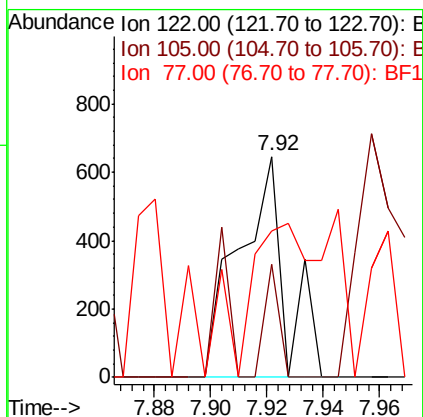
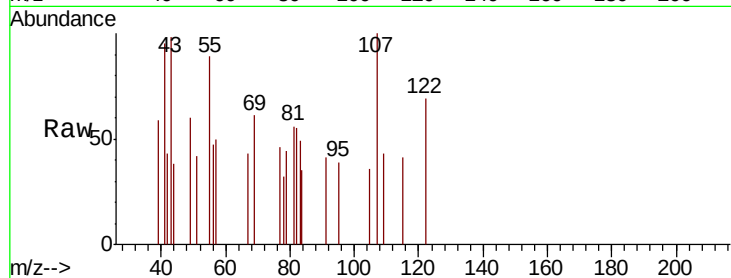




#32
Benzoic acid
Concen: 7.318 ng
RT: 7.92 min Scan# 992
Delta R.T. -0.02 min
Lab File: BF112217.D
Acq: 24 Jan 2019 19:05

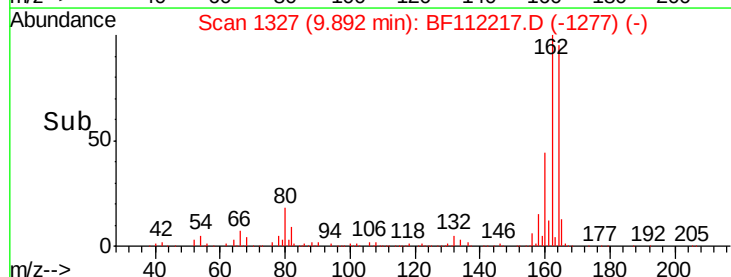
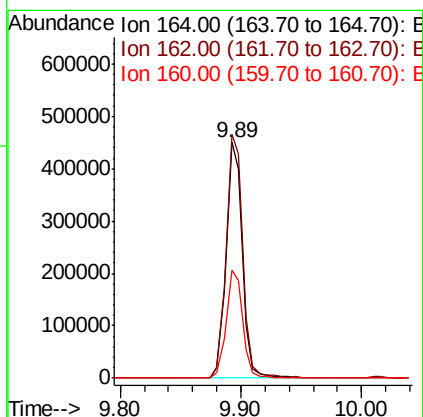
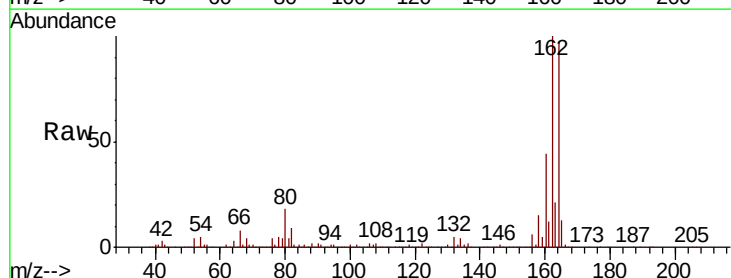
Instrument :
BNA_F
ClientSampleId :
TS-Q

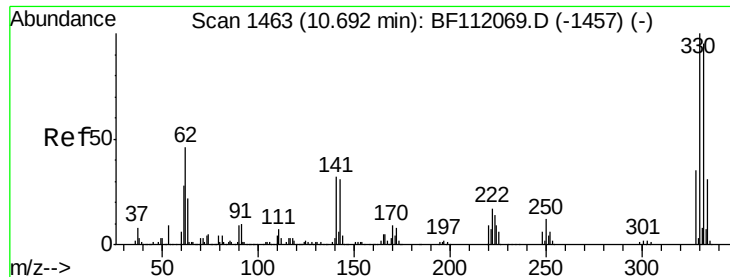
Tgt Ion	Ratio	Lower	Upper
122	100		
105	51.3	101.2	141.2#
77	66.5	70.4	110.4#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1327
Delta R.T. -0.01 min
Lab File: BF112217.D
Acq: 24 Jan 2019 19:05

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.2	82.2	123.4
160	45.6	36.2	54.4

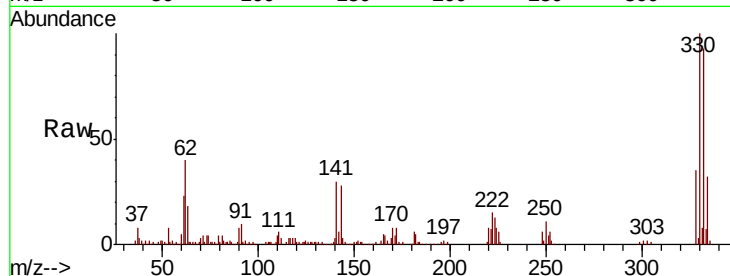




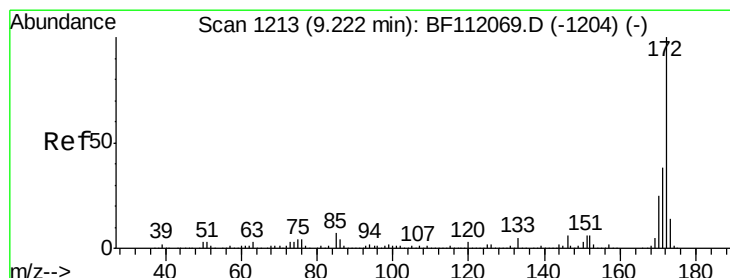
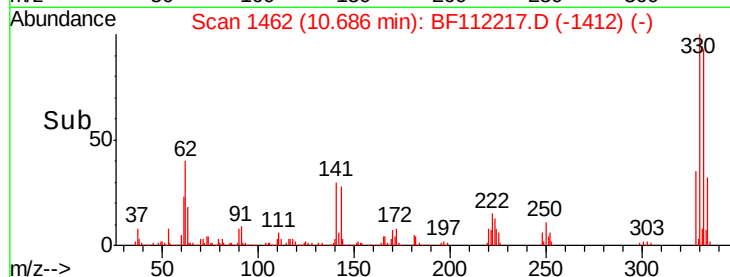
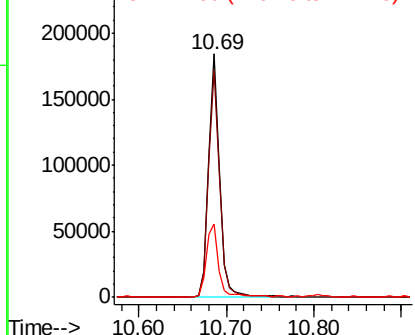
#42
 2,4,6-Tribromophenol
 Concen: 36.612 ng
 RT: 10.69 min Scan# 1462
 Delta R.T. -0.01 min
 Lab File: BF112217.D
 Acq: 24 Jan 2019 19:05

Instrument :
 BNA_F
 ClientSampleId :
 TS-Q

Tgt Ion:330 Resp: 165222
 Ion Ratio Lower Upper
 330 100
 332 94.8 76.6 114.8
 141 32.6 24.3 36.5

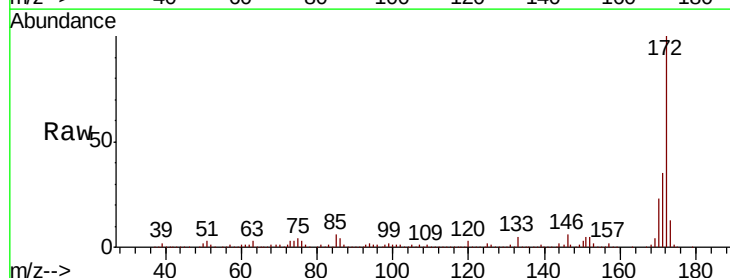


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

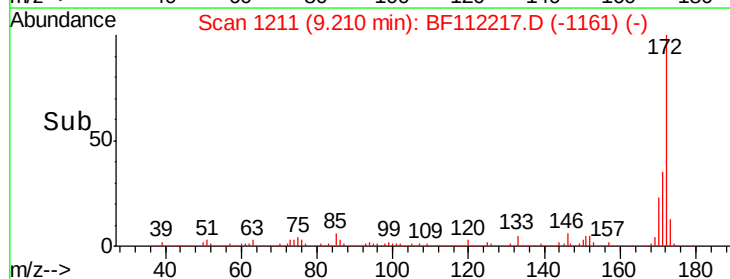
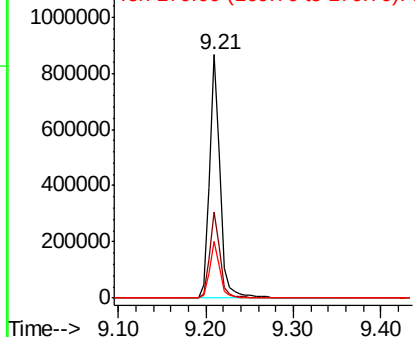


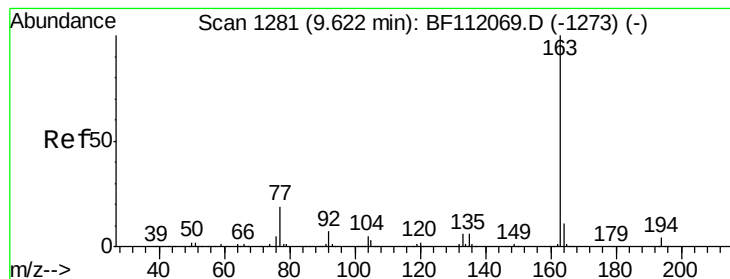
#45
 2-Fluorobiphenyl
 Concen: 25.677 ng
 RT: 9.21 min Scan# 1211
 Delta R.T. -0.01 min
 Lab File: BF112217.D
 Acq: 24 Jan 2019 19:05

Tgt Ion:172 Resp: 732640
 Ion Ratio Lower Upper
 172 100
 171 35.2 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





#50

Dimethylphthalate

Concen: 3.112 ng

RT: 9.60 min Scan# 1278

Delta R.T. -0.02 min

Lab File: BF112217.D

Acq: 24 Jan 2019 19:05

Instrument :

BNA_F

ClientSampleId :

TS-Q

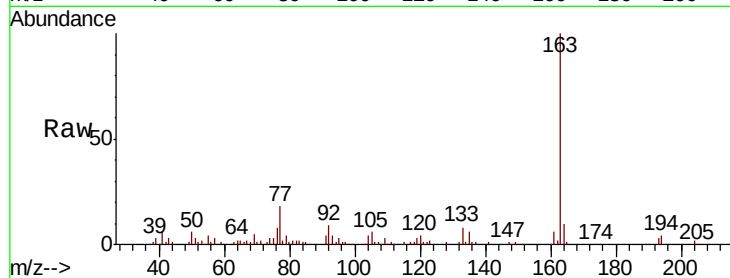
Tgt Ion:163 Resp: 94929

Ion Ratio Lower Upper

163 100

194 4.3 3.3 4.9

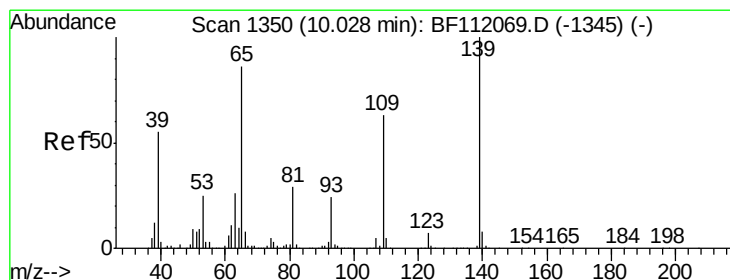
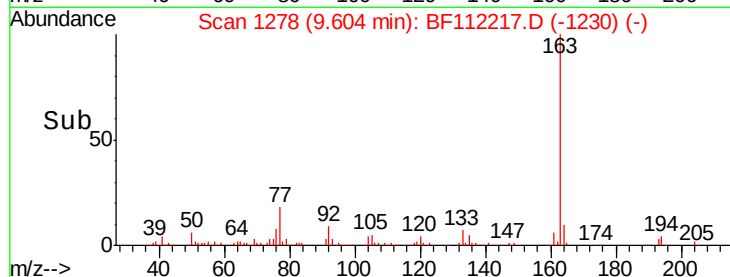
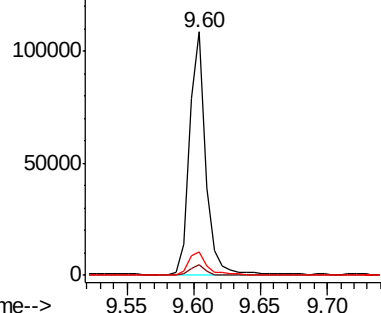
164 9.6 8.5 12.7



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#56

4-Nitrophenol

Concen: 5.871 ng

RT: 9.99 min Scan# 1344

Delta R.T. -0.04 min

Lab File: BF112217.D

Acq: 24 Jan 2019 19:05

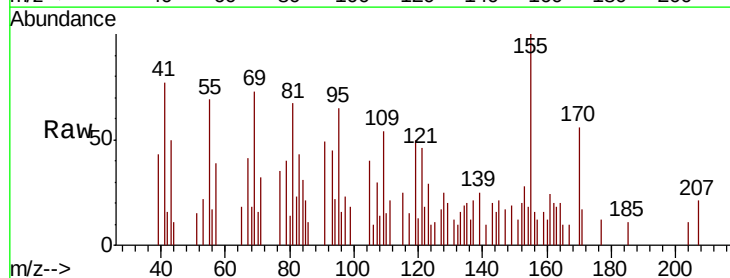
Tgt Ion:139 Resp: 1134

Ion Ratio Lower Upper

139 100

109 214.6 42.8 82.8#

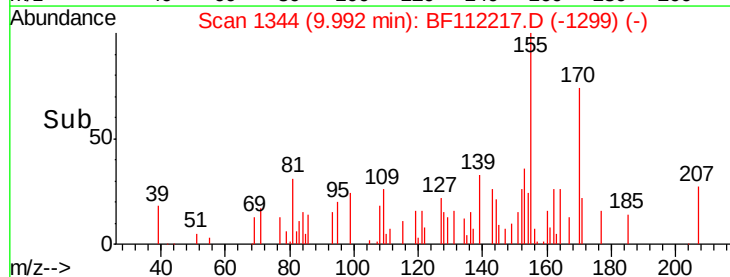
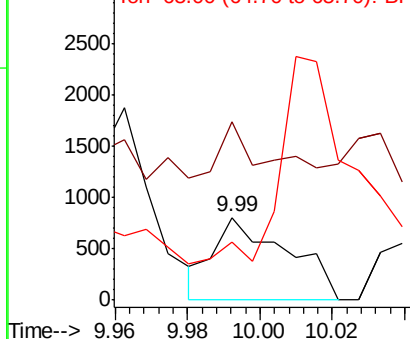
65 70.7 66.1 106.1

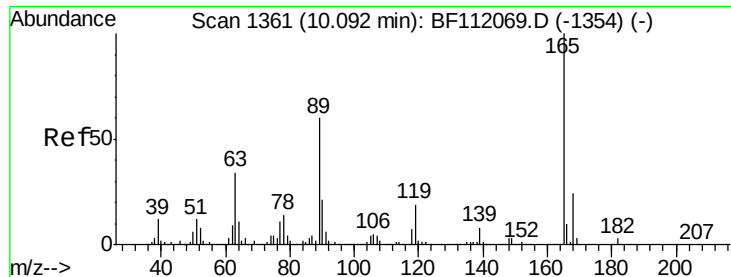


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

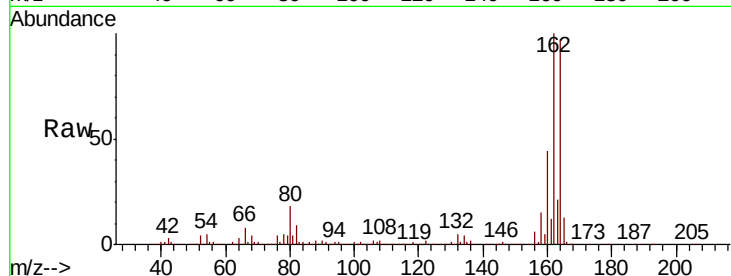




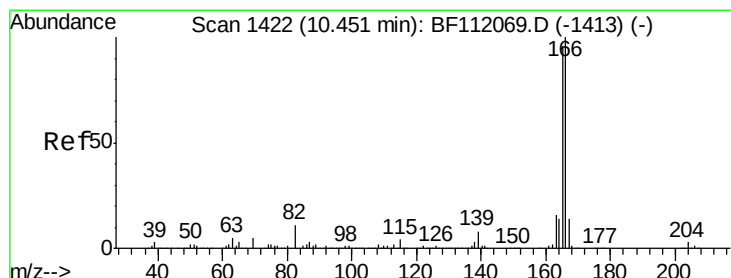
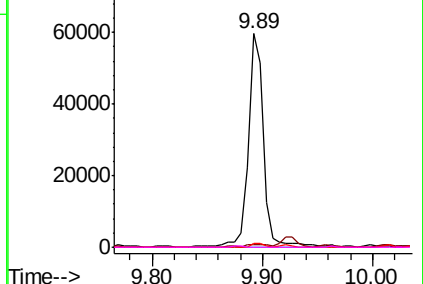
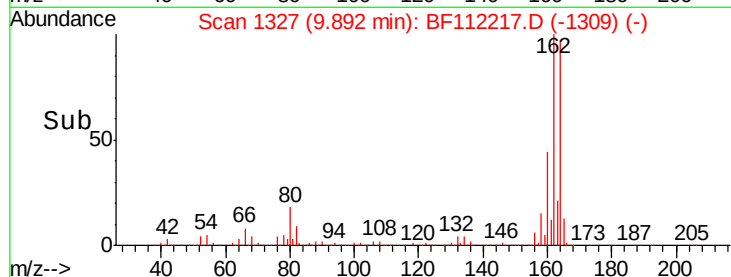
#57
 2,4-Dinitrotoluene
 Concen: 11.320 ng
 RT: 9.89 min Scan# 1327
 Delta R.T. -0.19 min
 Lab File: BF112217.D
 Acq: 24 Jan 2019 19:05

Instrument :
 BNA_F
 ClientSampleId :
 TS-Q

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.4	27.9	41.9#
89	1.9	47.9	71.9#
182	0.0	2.2	3.4#

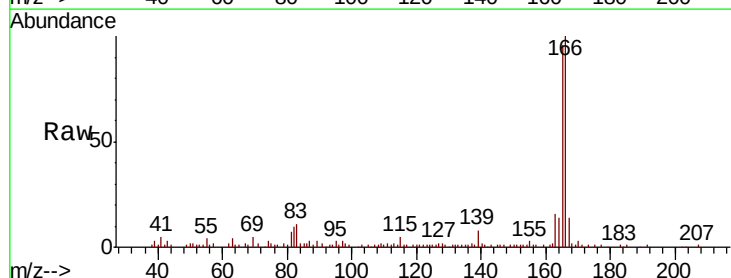


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1
 Ion 182.00 (181.70 to 182.70): E

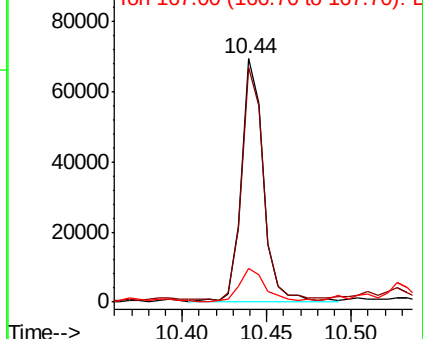
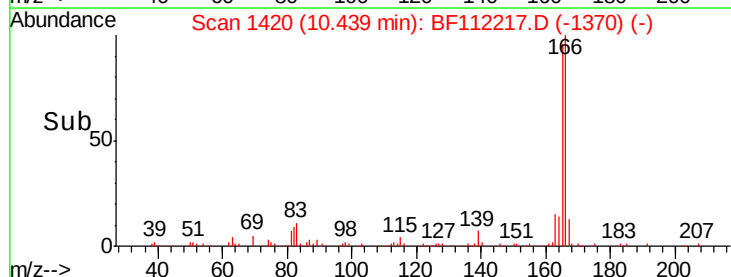


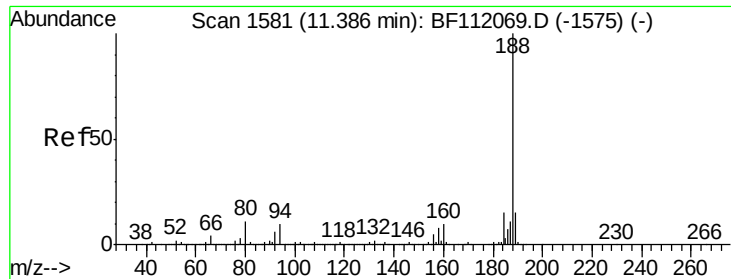
#58
 Fluorene
 Concen: 2.291 ng
 RT: 10.44 min Scan# 1420
 Delta R.T. -0.01 min
 Lab File: BF112217.D
 Acq: 24 Jan 2019 19:05

Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.3	77.1	115.7
167	13.9	11.3	16.9



Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.38 min Scan# 1580

Delta R.T. -0.01 min

Lab File: BF112217.D

Acq: 24 Jan 2019 19:05

Instrument :

BNA_F

ClientSampleId :

TS-Q

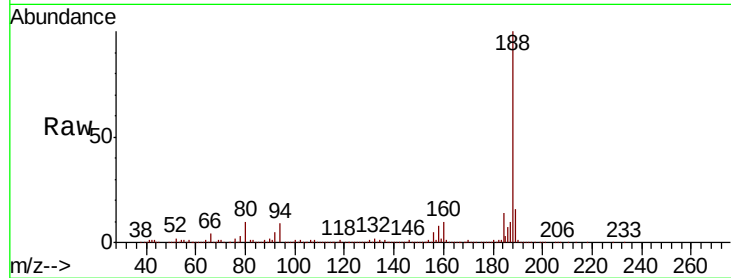
Tgt Ion:188 Resp: 664978

Ion Ratio Lower Upper

188 100

94 9.3 8.2 12.2

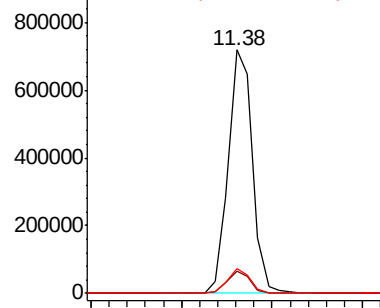
80 10.3 8.9 13.3



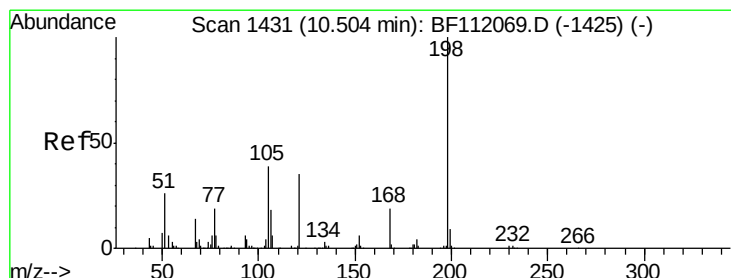
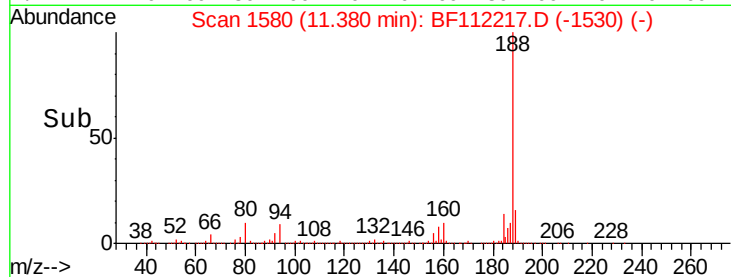
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



Time--> 11.30 11.35 11.40



#65

4,6-Dinitro-2-methylphenol

Concen: 10.209 ng

RT: 10.69 min Scan# 1462

Delta R.T. 0.18 min

Lab File: BF112217.D

Acq: 24 Jan 2019 19:05

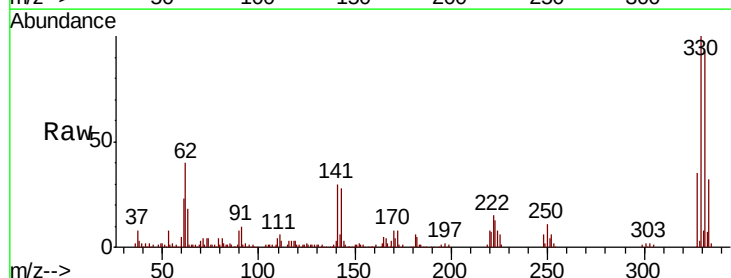
Tgt Ion:198 Resp: 488

Ion Ratio Lower Upper

198 100

51 164.2 17.2 57.2#

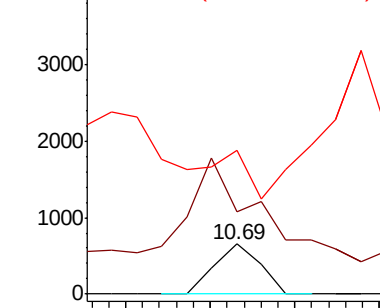
105 286.1 21.9 61.9#



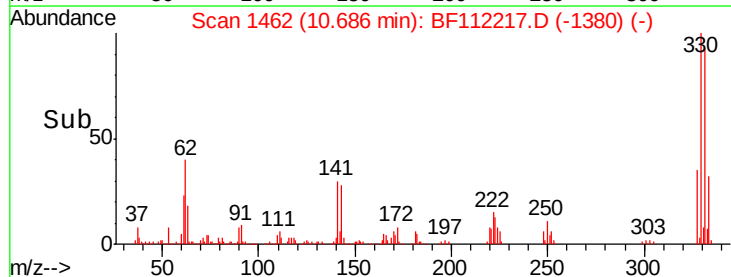
Abundance Ion 198.00 (197.70 to 198.70): E

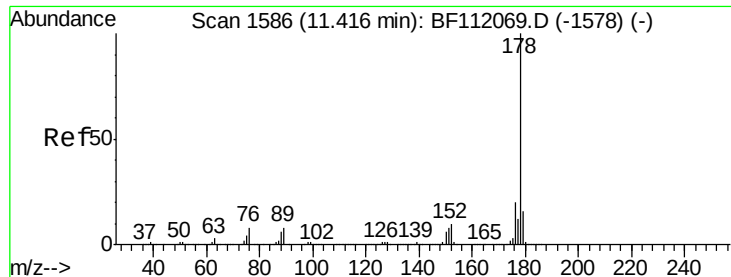
Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E



Time--> 10.66 10.68 10.70

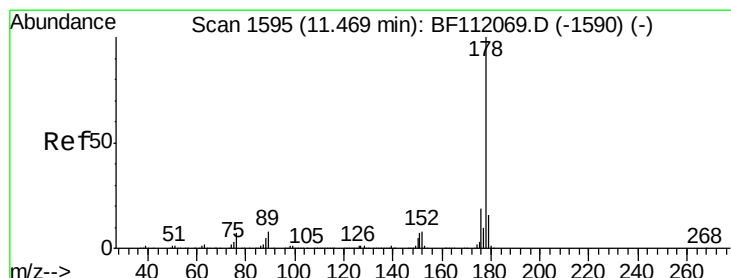
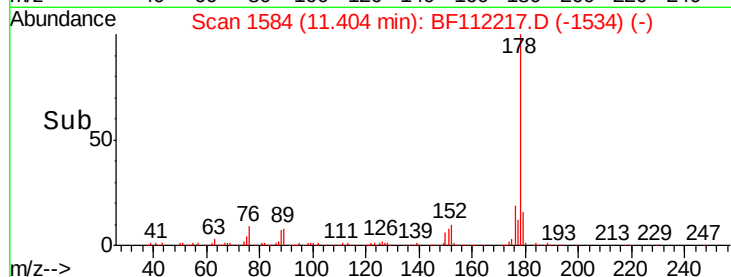
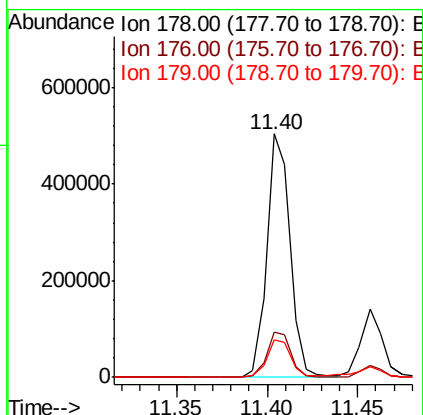
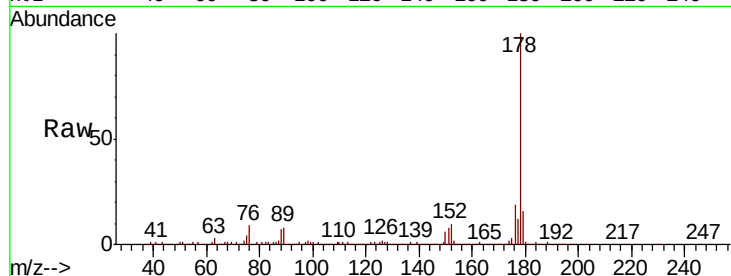




#71
Phenanthrene
Concen: 13.396 ng
RT: 11.40 min Scan# 1584
Delta R.T. -0.01 min
Lab File: BF112217.D
Acq: 24 Jan 2019 19:05

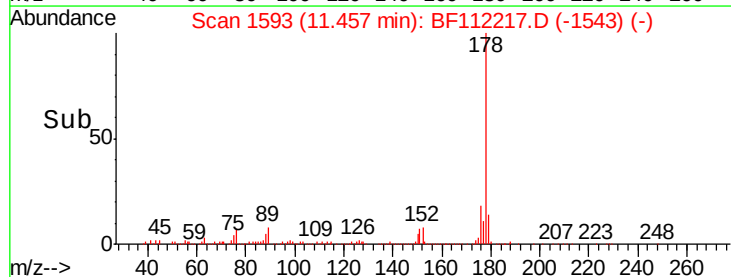
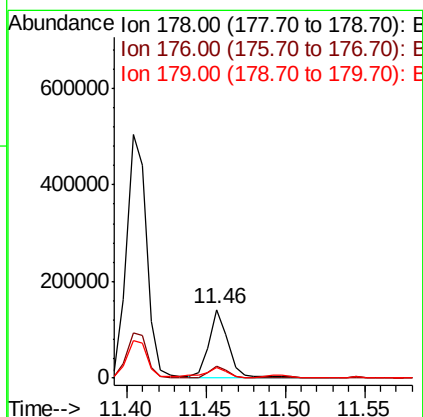
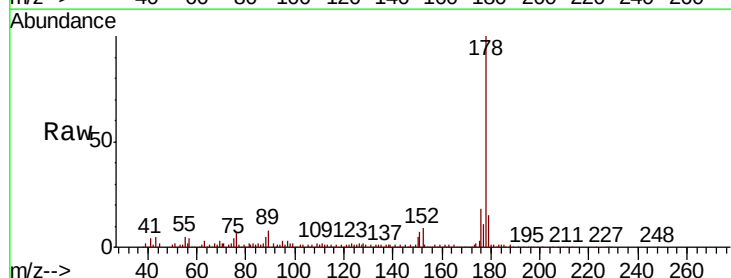
Instrument :
BNA_F
ClientSampleId :
TS-Q

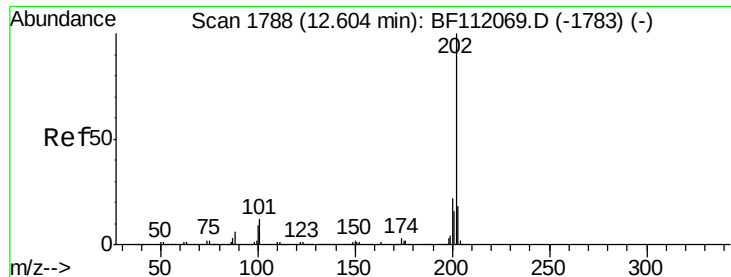
Tgt Ion:178 Resp: 448288
Ion Ratio Lower Upper
178 100
176 18.7 16.3 24.5
179 15.6 13.0 19.4



#72
Anthracene
Concen: 3.558 ng
RT: 11.46 min Scan# 1593
Delta R.T. -0.01 min
Lab File: BF112217.D
Acq: 24 Jan 2019 19:05

Tgt Ion:178 Resp: 120623
Ion Ratio Lower Upper
178 100
176 18.0 15.5 23.3
179 14.9 12.8 19.2





#75

Fluoranthene

Concen: 11.878 ng

RT: 12.60 min Scan# 1787

Delta R.T. 0.00 min

Lab File: BF112217.D

Acq: 24 Jan 2019 19:05

Instrument :

BNA_F

ClientSampleId :

TS-Q

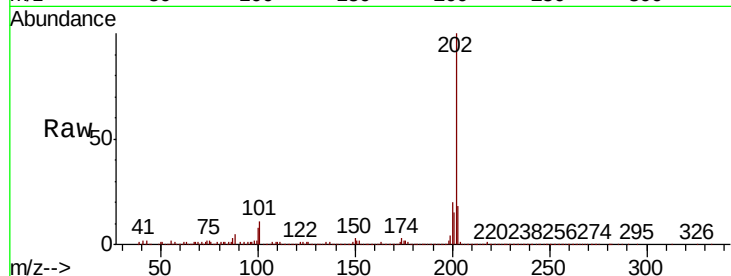
Tgt Ion:202 Resp: 419690

Ion Ratio Lower Upper

202 100

101 10.8 0.0 31.8

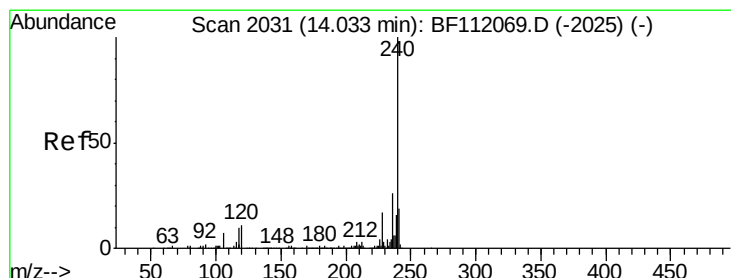
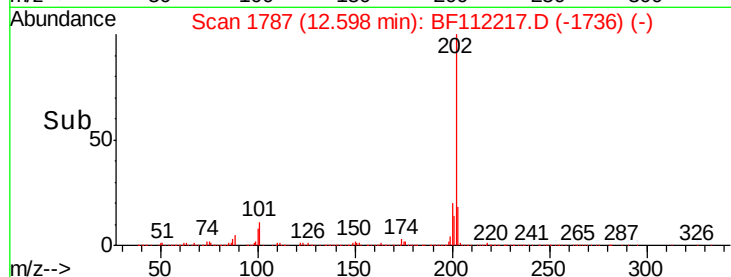
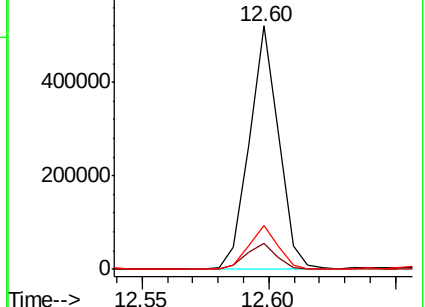
203 17.8 0.0 38.4



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: 14.03 min Scan# 2030

Delta R.T. 0.00 min

Lab File: BF112217.D

Acq: 24 Jan 2019 19:05

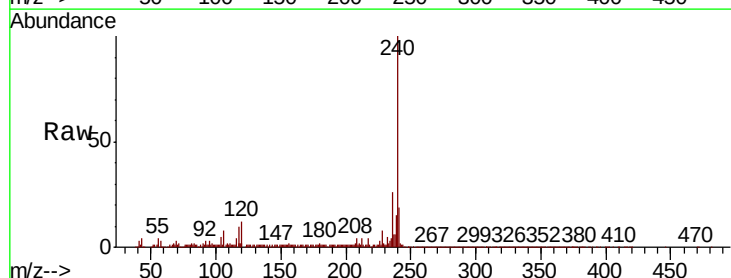
Tgt Ion:240 Resp: 482706

Ion Ratio Lower Upper

240 100

120 12.0 9.0 13.6

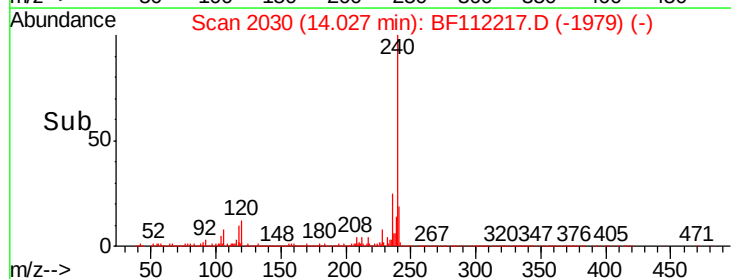
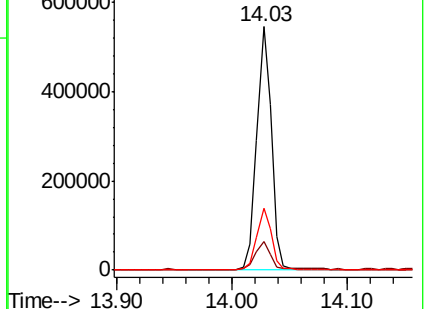
236 25.6 20.7 31.1

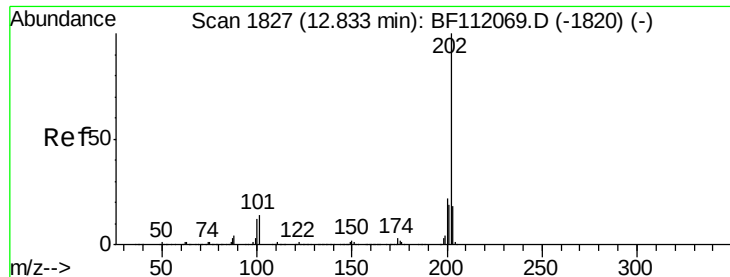


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pyrene

Concen: 10.473 ng

RT: 12.83 min Scan# 1826

Delta R.T. 0.00 min

Lab File: BF112217.D

Acq: 24 Jan 2019 19:05

Instrument :

BNA_F

ClientSampleId :

TS-Q

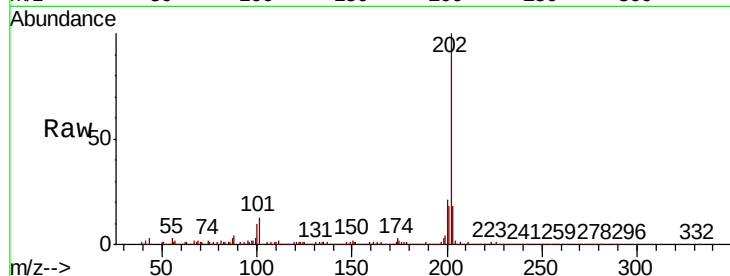
Tgt Ion:202 Resp: 333543

Ion Ratio Lower Upper

202 100

200 21.0 17.7 26.5

203 18.2 14.6 22.0

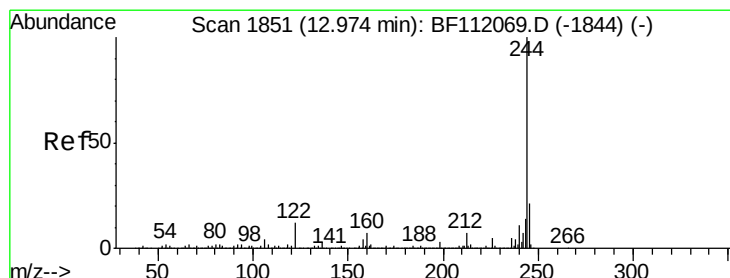
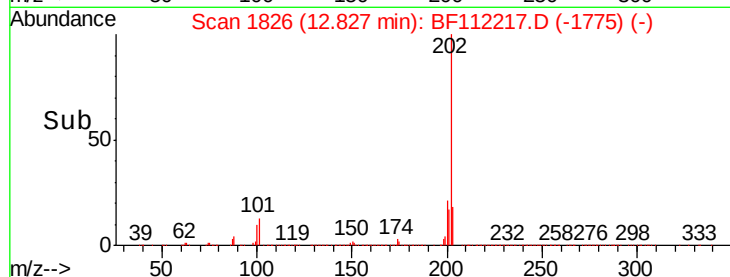
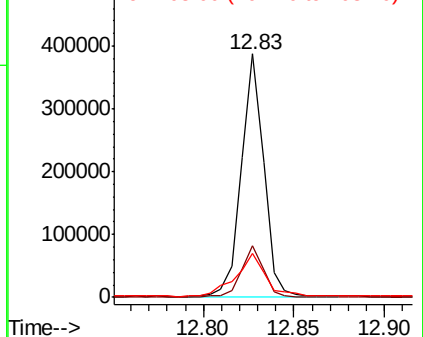


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 22.880 ng

RT: 12.96 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BF112217.D

Acq: 24 Jan 2019 19:05

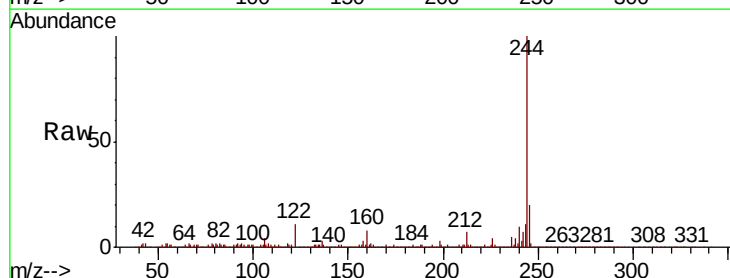
Tgt Ion:244 Resp: 519151

Ion Ratio Lower Upper

244 100

212 6.9 5.9 8.9

122 11.2 9.8 14.6

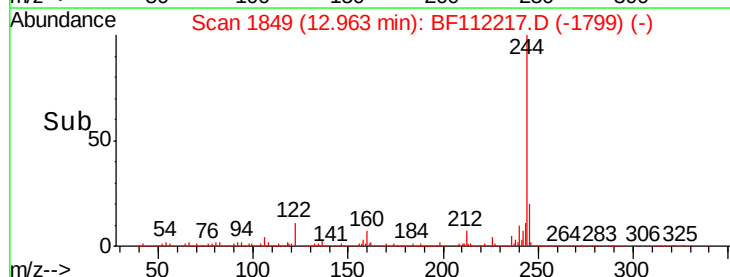
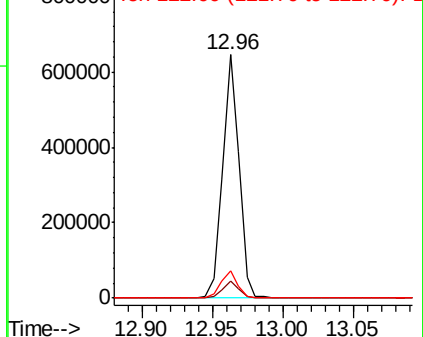


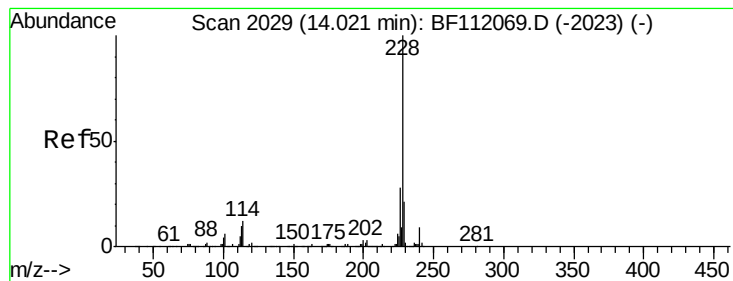
Abundance

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: 5.412 ng

RT: 14.02 min Scan# 2028

Delta R.T. 0.00 min

Lab File: BF112217.D

Acq: 24 Jan 2019 19:05

Instrument :

BNA_F

ClientSampleId :

TS-Q

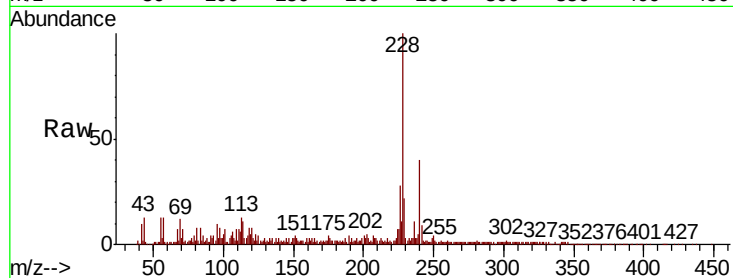
Tgt Ion:228 Resp: 149798

Ion Ratio Lower Upper

228 100

226 27.7 22.6 34.0

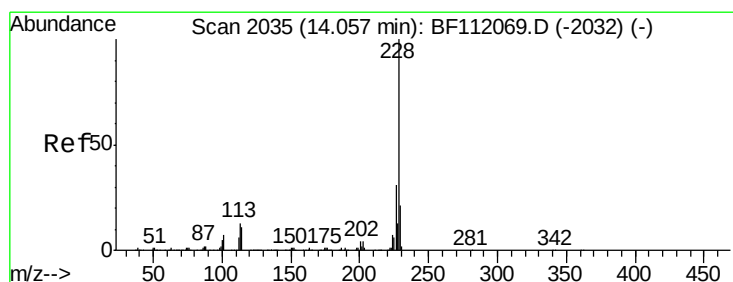
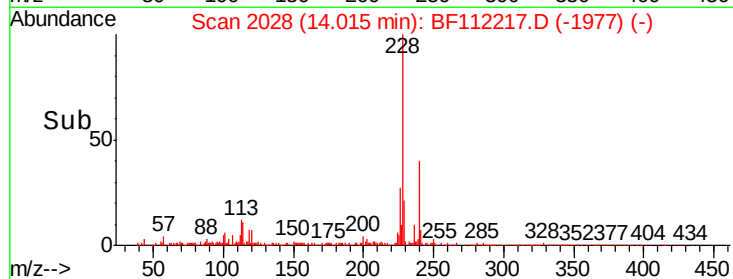
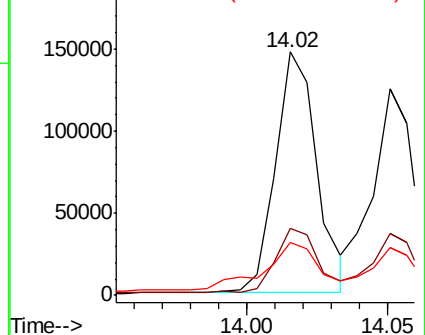
229 21.8 16.5 24.7



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: 4.848 ng

RT: 14.05 min Scan# 2034

Delta R.T. -0.01 min

Lab File: BF112217.D

Acq: 24 Jan 2019 19:05

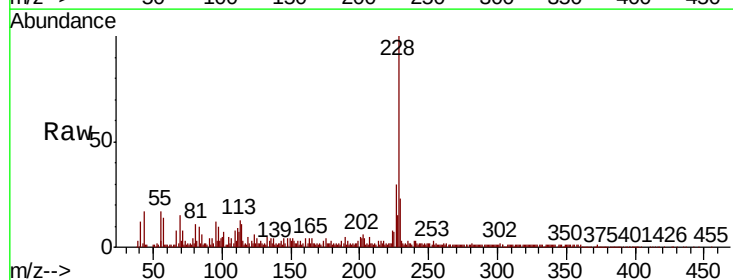
Tgt Ion:228 Resp: 126964

Ion Ratio Lower Upper

228 100

226 30.0 25.0 37.6

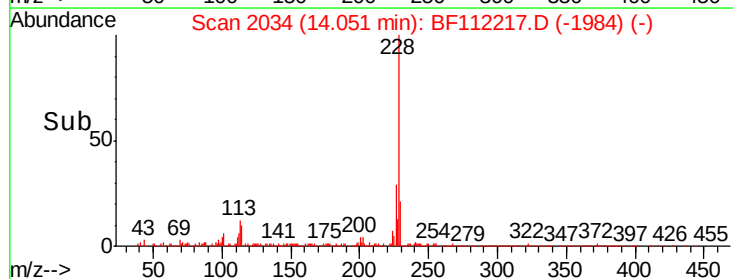
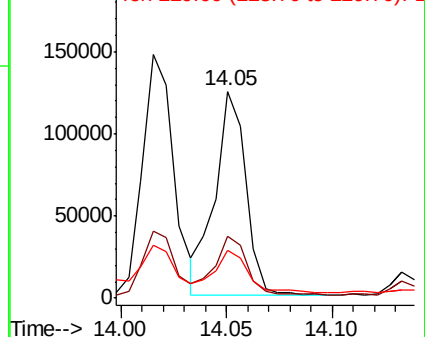
229 23.2 16.6 24.8

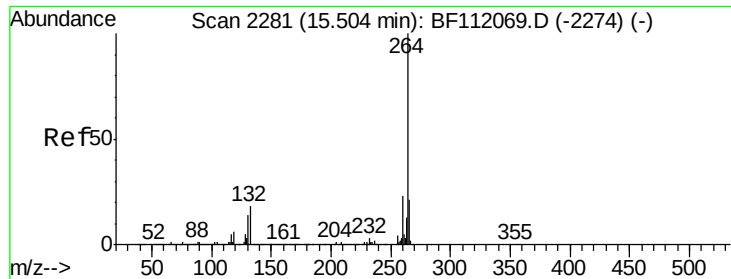


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

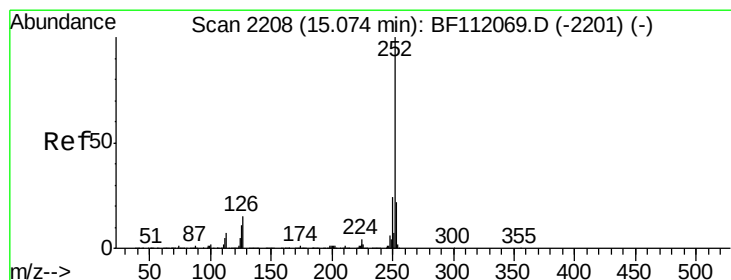
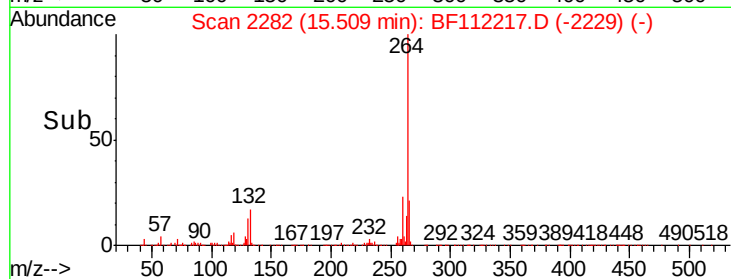
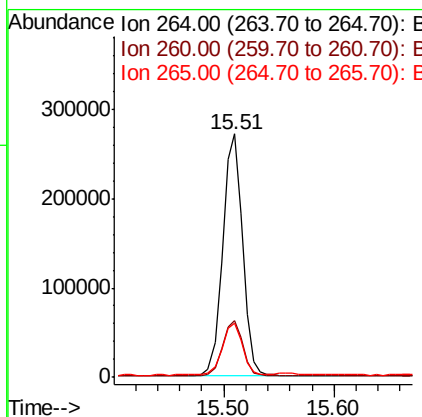
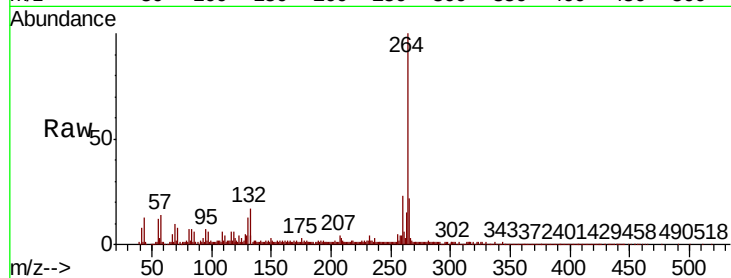




#87
Perylene-d12
Concen: 20.000 ng
RT: 15.51 min Scan# 2282
Delta R.T. 0.01 min
Lab File: BF112217.D
Acq: 24 Jan 2019 19:05

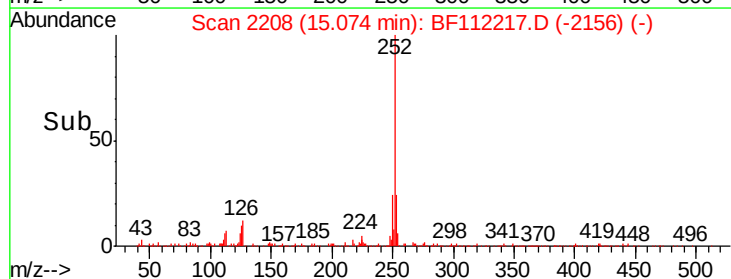
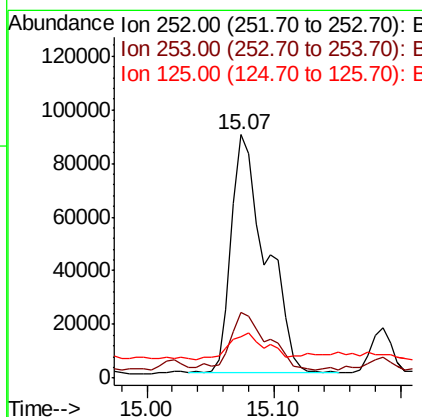
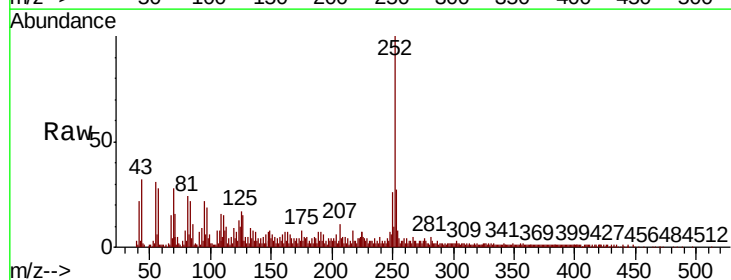
Instrument :
BNA_F
ClientSampleId :
TS-Q

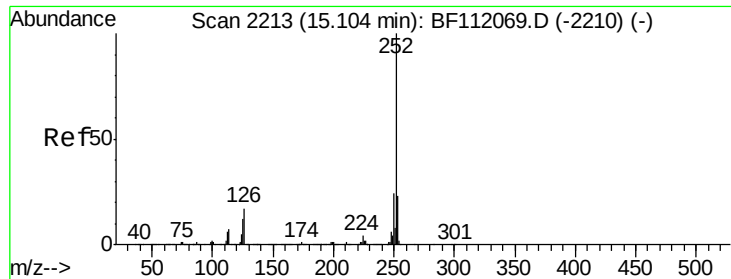
Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.2	27.2
265	22.1	17.0	25.4



#88
Benzo(b)fluoranthene
Concen: 8.606 ng
RT: 15.07 min Scan# 2208
Delta R.T. 0.01 min
Lab File: BF112217.D
Acq: 24 Jan 2019 19:05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.2	18.0	27.0#
125	17.1	8.7	13.1#





#89

Benzo(k)fluoranthene

Concen: 8.892 ng

RT: 15.07 min Scan# 2208

Delta R.T. -0.02 min

Lab File: BF112217.D

Acq: 24 Jan 2019 19:05

Instrument :

BNA_F

ClientSampleId :

TS-Q

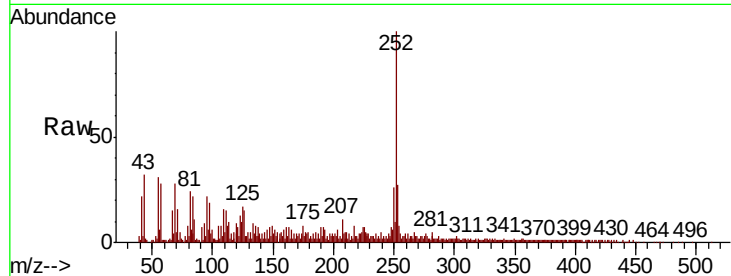
Tgt Ion:252 Resp: 167988

Ion Ratio Lower Upper

252 100

253 27.2 18.0 27.0#

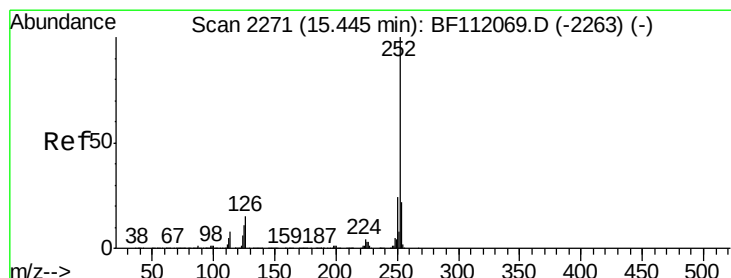
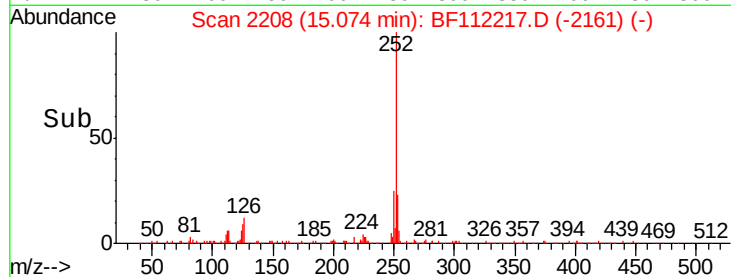
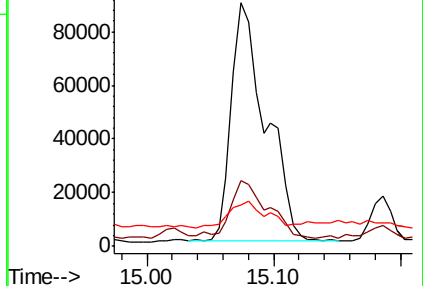
125 17.1 9.1 13.7#



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: 4.601 ng

RT: 15.44 min Scan# 2271

Delta R.T. 0.01 min

Lab File: BF112217.D

Acq: 24 Jan 2019 19:05

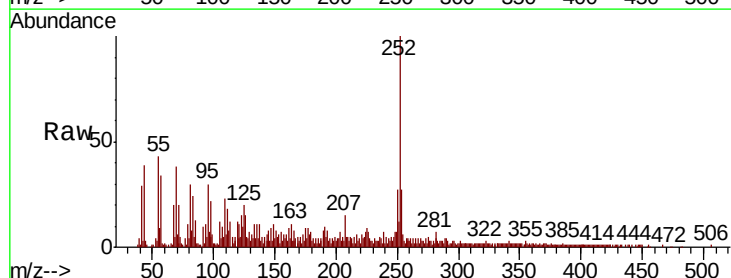
Tgt Ion:252 Resp: 82370

Ion Ratio Lower Upper

252 100

253 26.6 17.5 26.3#

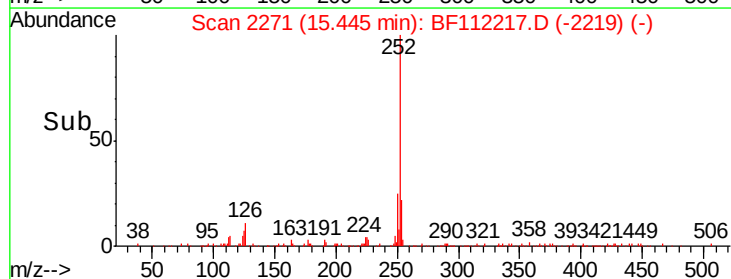
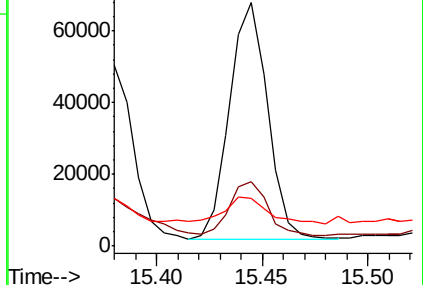
125 19.7 9.0 13.4#

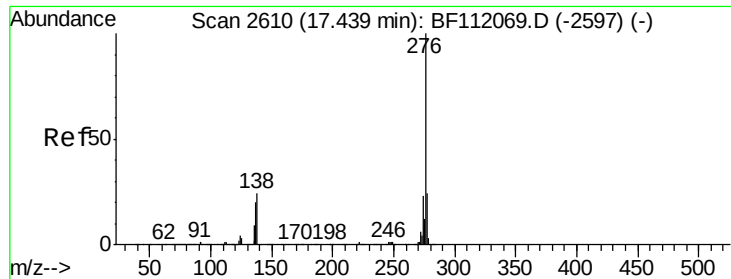


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#92

Benzo(g,h,i)perylene

Concen: 2.814 ng

RT: 17.45 min Scan# 2612

Delta R.T. 0.02 min

Lab File: BF112217.D

Acq: 24 Jan 2019 19:05

Instrument :

BNA_F

ClientSampleId :

TS-Q

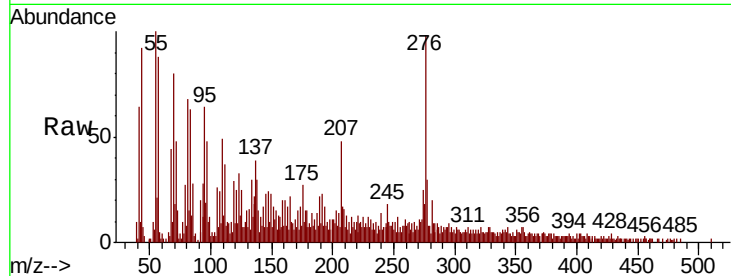
Tgt Ion:276 Resp: 44076

Ion Ratio Lower Upper

276 100

277 30.6 19.4 29.0#

138 31.0 19.1 28.7#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

