

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040219\
 Data File : BF113512.D
 Acq On : 2 Apr 2019 18:18
 Operator : JU/SJ
 Sample : K2190-04
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 VN-SP-2

Quant Time: Apr 03 01:01:58 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF032519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 26 03:32:08 2019
 Response via : Initial Calibration

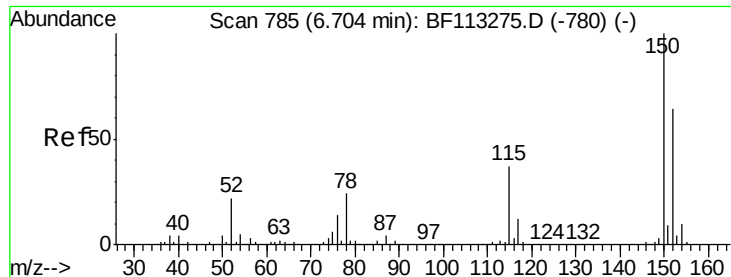
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	138493	20.00	ng	-0.01
21) Naphthalene-d8	7.97	136	516439	20.00	ng	-0.01
39) Acenaphthene-d10	9.72	164	247504	20.00	ng	-0.02
64) Phenanthrene-d10	11.20	188	467154	20.00	ng	-0.02
76) Chrysene-d12	13.83	240	322774	20.00	ng	-0.01
87) Perylene-d12	15.24	264	378522	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	666594	78.70	ng	-0.01
7) Phenol-d6	6.34	99	894829	83.51	ng	-0.02
23) Nitrobenzene-d5	7.26	82	529905	60.90	ng	-0.01
42) 2,4,6-Tribromophenol	10.51	330	263330	86.13	ng	-0.02
45) 2-Fluorobiphenyl	9.05	172	1001797	57.80	ng	-0.02
79) Terphenyl-d14	12.78	244	903088	61.67	ng	-0.02

Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	7.26	70	68906	10.238	ng	# 75
20) 3+4-Methylphenols	7.16	107	130	Below	Cal	# 12
25) Isophorone	7.26	82	520326	30.858	ng	# 64
49) Acenaphthylene	9.58	152	219711	8.538	ng	98
50) Dimethylphthalate	9.44	163	64170	3.499	ng	99
51) 2,6-Dinitrotoluene	9.72	165	32269	7.798	ng	# 27
67) 4-Bromophenyl-phenylether	10.51	248	15002	2.946	ng	# 1
71) Phenanthrene	11.22	178	285175	12.293	ng	99
72) Anthracene	11.27	178	60262	2.557	ng	98
75) Fluoranthene	12.41	202	855005	32.601	ng	99
78) Pyrene	12.64	202	1229215	54.956	ng	100
81) Benzo(a)anthracene	13.86	228	388160	21.009	ng	97
83) Chrysene	13.86	228	388160	20.683	ng	99
86) Indeno(1,2,3-cd)pyrene	16.59	276	373385	23.183	ng	96
88) Benzo(b)fluoranthene	14.84	252	740951	31.511	ng	# 98
89) Benzo(k)fluoranthene	14.84	252	740951	35.883	ng	# 98
90) Benzo(a)pyrene	15.18	252	507052	24.324	ng	99
91) Dibenzo(a,h)anthracene	16.74	278	43679	2.423	ng	93
92) Benzo(g,h,i)perylene	17.00	276	451939	24.867	ng	99

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

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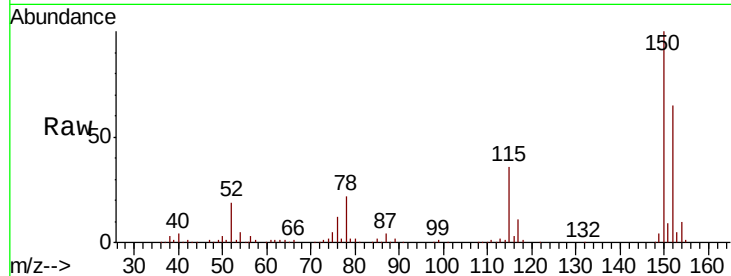


#1

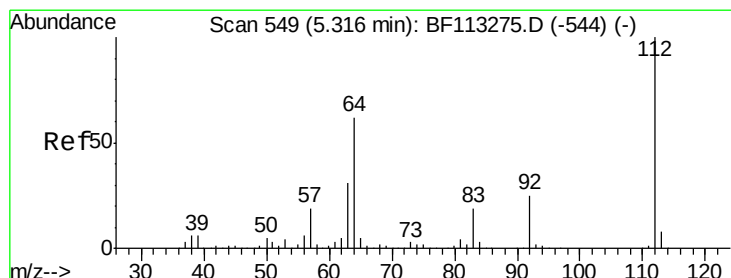
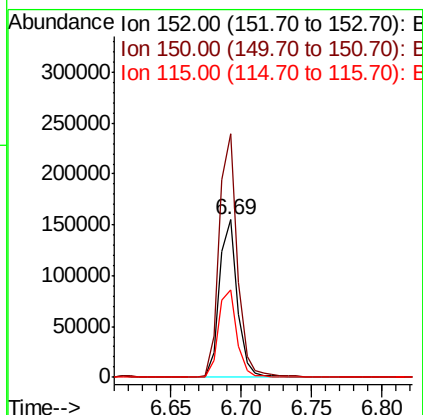
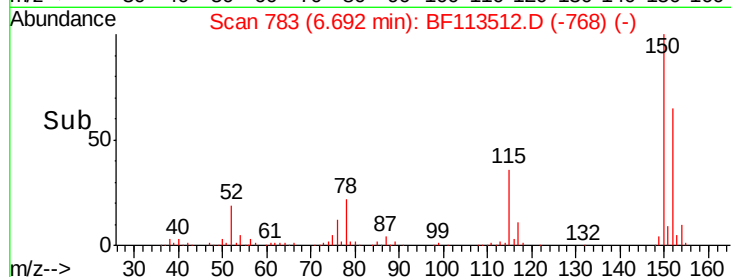
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.69 min Scan# 783
 Delta R.T. -0.01 min
 Lab File: BF113512.D
 Acq: 2 Apr 2019 18:18

Instrument :
 BNA_F
 ClientSampleId :
 VN-SP-2

Tgt Ion:152 Resp: 138493
 Ion Ratio Lower Upper
 152 100
 150 154.5 124.7 187.1
 115 55.3 46.0 69.0



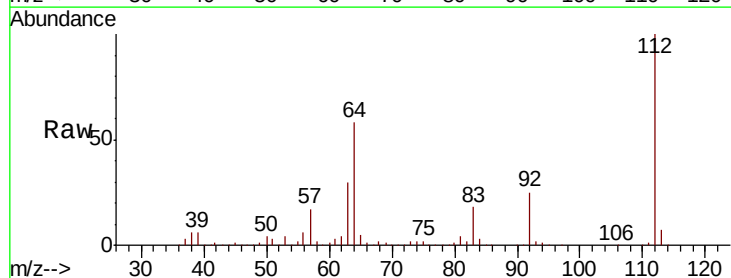
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



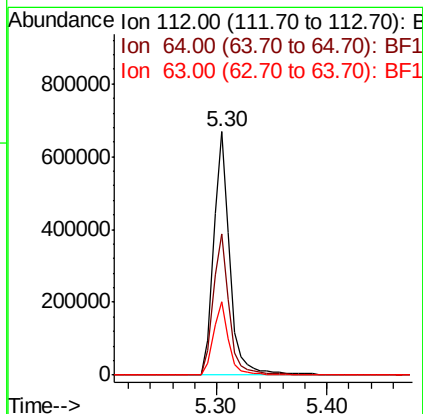
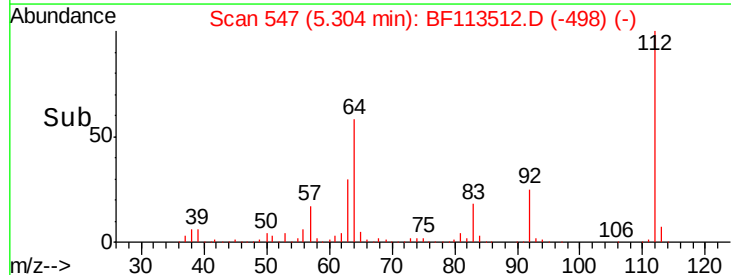
#5

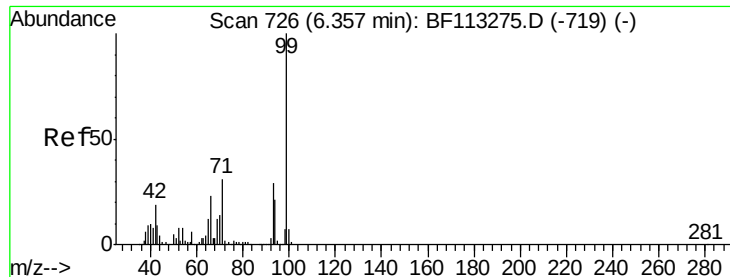
2-Fluorophenol
 Concen: 78.702 ng
 RT: 5.30 min Scan# 547
 Delta R.T. -0.01 min
 Lab File: BF113512.D
 Acq: 2 Apr 2019 18:18

Tgt Ion:112 Resp: 666594
 Ion Ratio Lower Upper
 112 100
 64 57.9 49.2 73.8
 63 30.0 24.9 37.3



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: 83.513 ng

RT: 6.34 min Scan# 723

Delta R.T. -0.02 min

Lab File: BF113512.D

Acq: 2 Apr 2019 18:18

Instrument :

BNA_F

ClientSampleId :

VN-SP-2

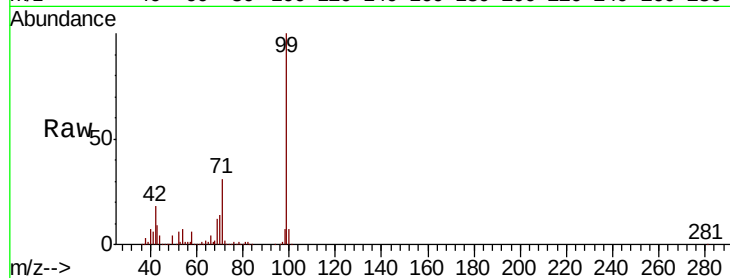
Tgt Ion: 99 Resp: 894829

Ion Ratio Lower Upper

99 100

42 18.2 14.8 22.2

71 31.4 24.9 37.3

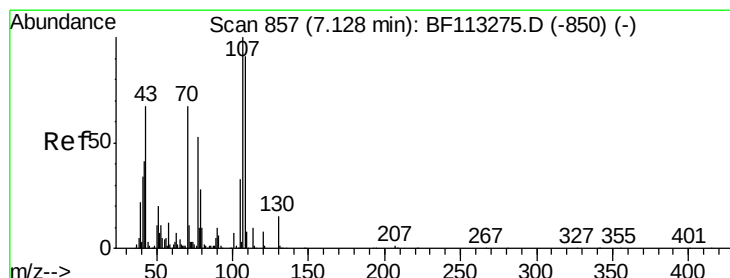
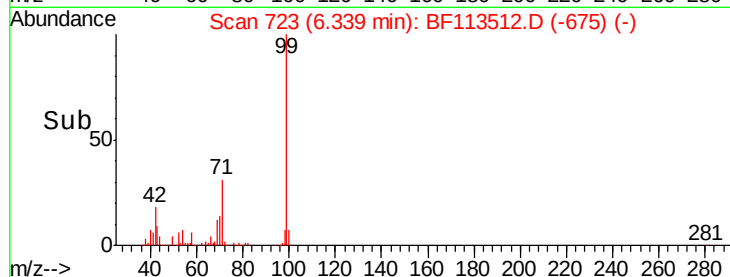
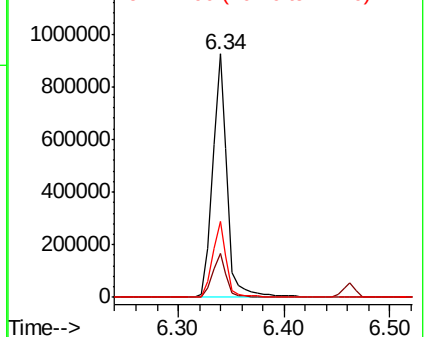


Abundance

Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 10.238 ng

RT: 7.26 min Scan# 879

Delta R.T. 0.13 min

Lab File: BF113512.D

Acq: 2 Apr 2019 18:18

Tgt Ion: 70 Resp: 68906

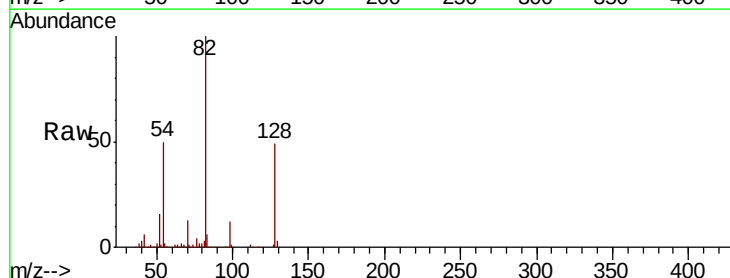
Ion Ratio Lower Upper

70 100

42 46.6 48.4 72.6#

101 0.0 7.8 11.8#

130 2.4 18.2 27.4#



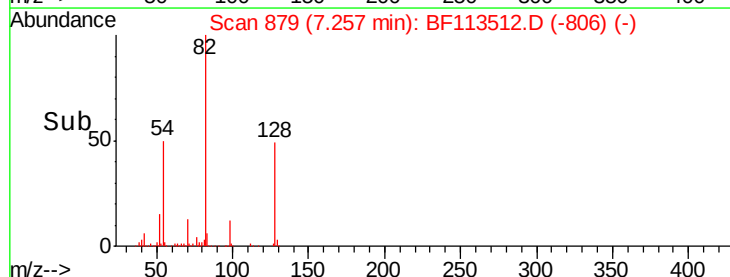
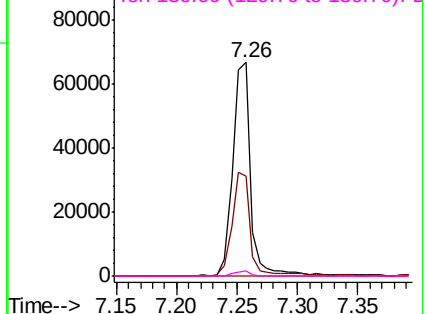
Abundance

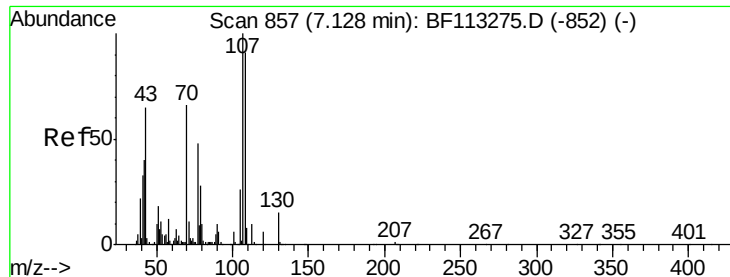
Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1





#20

3+4-Methylphenols

Concen: Below Cal

RT: 7.16 min Scan# 863

Delta R.T. 0.04 min

Lab File: BF113512.D

Acq: 2 Apr 2019 18:18

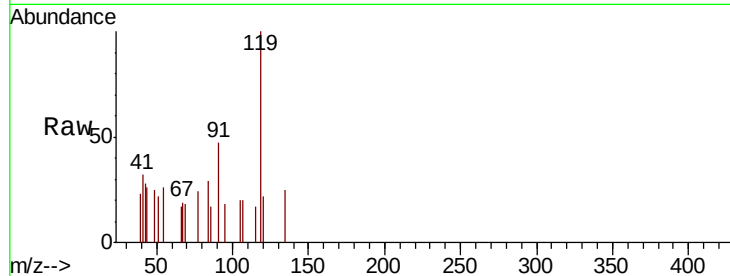
Instrument :

BNA_F

ClientSampleId :

VN-SP-2

Tgt Ion:	107	Resp:	130
Ion	Ratio	Lower	Upper
107	100		
108	0.0	71.4	111.4#
77	120.4	33.5	73.5#
79	0.0	8.3	48.3#

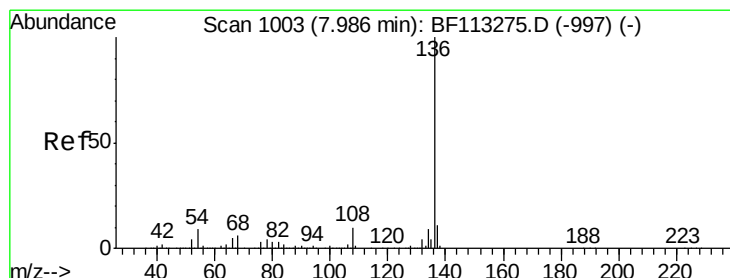
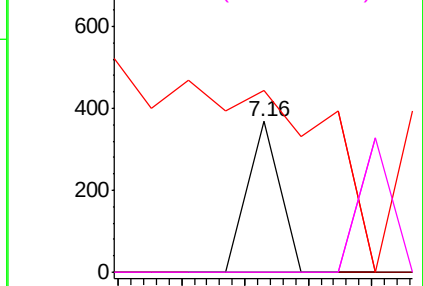
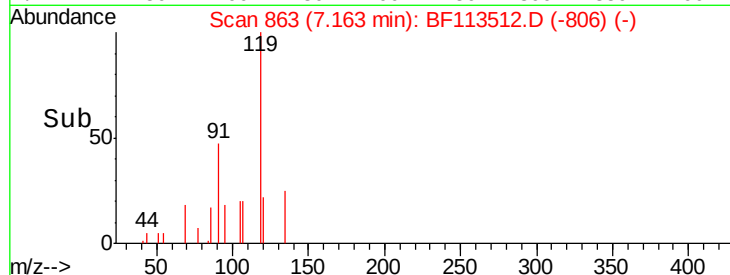


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF1

Ion 79.00 (78.70 to 79.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

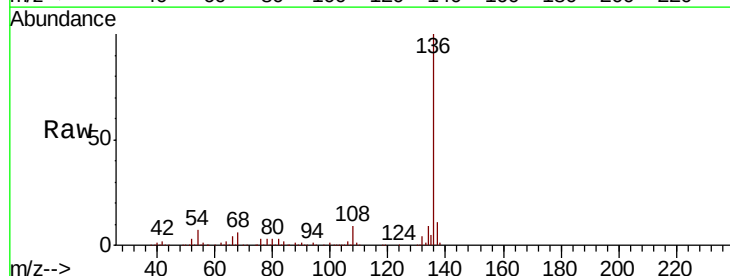
RT: 7.97 min Scan# 1001

Delta R.T. -0.01 min

Lab File: BF113512.D

Acq: 2 Apr 2019 18:18

Tgt Ion:	136	Resp:	516439
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.9	13.3
54	7.2	7.0	10.6
68	5.7	4.8	7.2

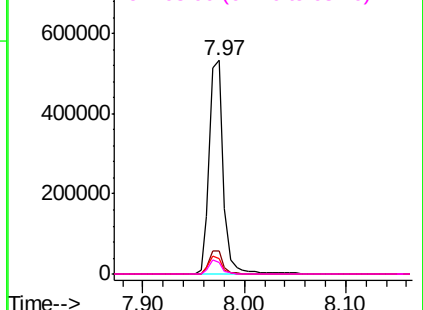
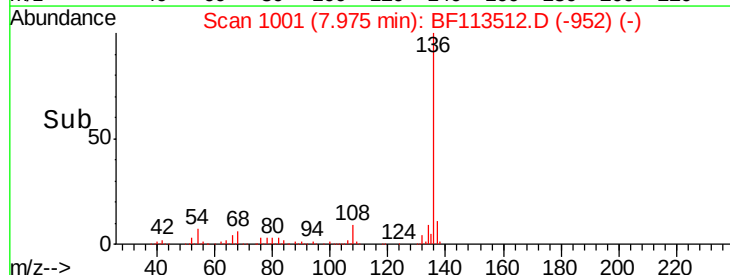


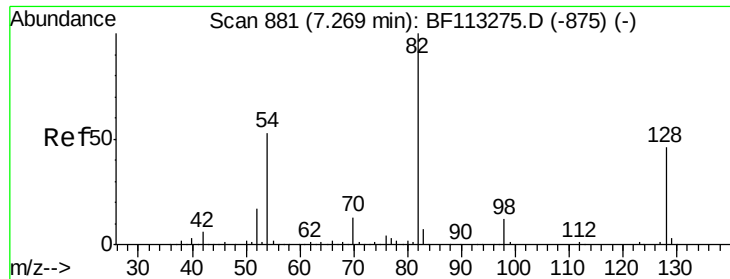
Abundance Ion 136.00 (135.70 to 136.70): E

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

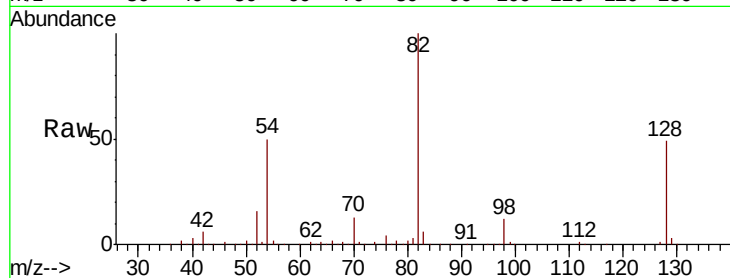




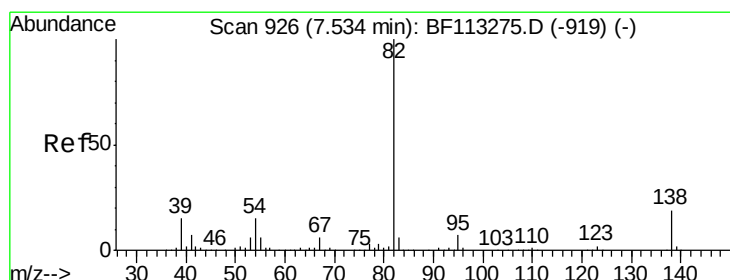
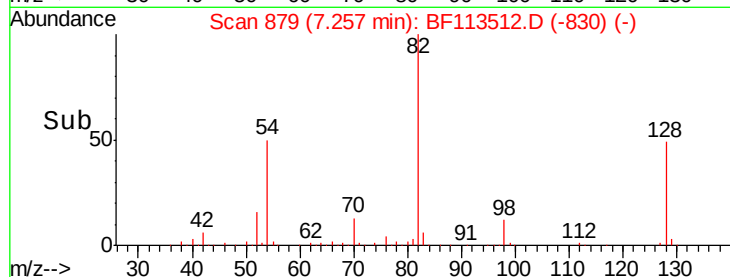
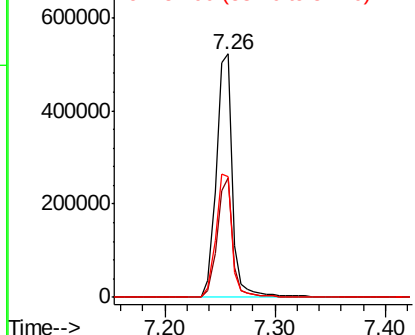
#23
 Nitrobenzene-d5
 Concen: 60.902 ng
 RT: 7.26 min Scan# 879
 Delta R.T. -0.01 min
 Lab File: BF113512.D
 Acq: 2 Apr 2019 18:18

Instrument :
 BNA_F
 ClientSampleId :
 VN-SP-2

Tgt Ion	Ratio	Lower	Upper
82	100		
128	48.8	36.5	54.7
54	49.5	42.2	63.2

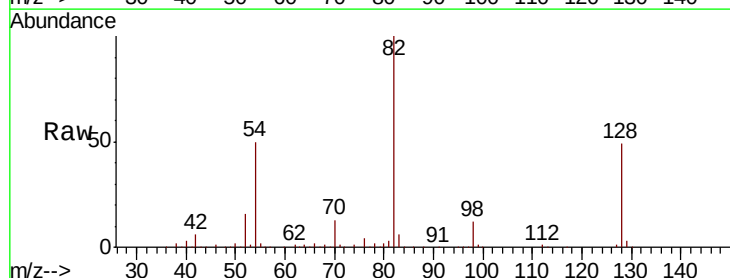


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): BF1
 Ion 54.00 (53.70 to 54.70): BF1

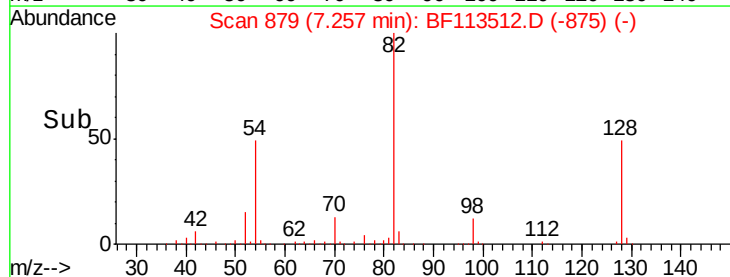
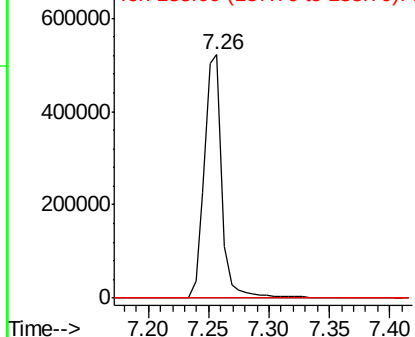


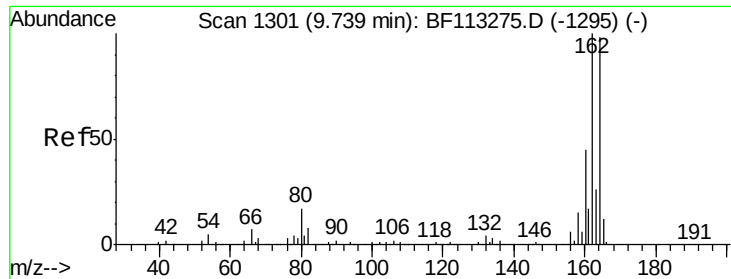
#25
 Isophorone
 Concen: 30.858 ng
 RT: 7.26 min Scan# 879
 Delta R.T. -0.28 min
 Lab File: BF113512.D
 Acq: 2 Apr 2019 18:18

Tgt Ion	Ratio	Lower	Upper
82	100		
95	0.1	5.5	8.3#
138	0.0	15.2	22.8#



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): BF1

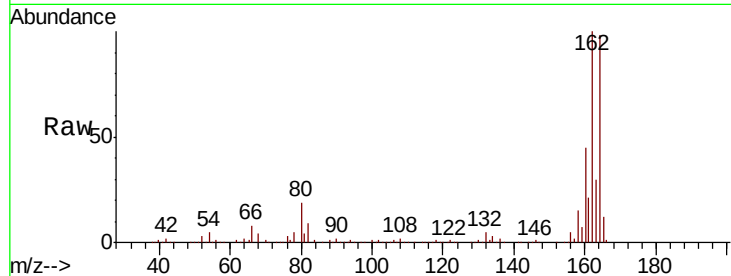




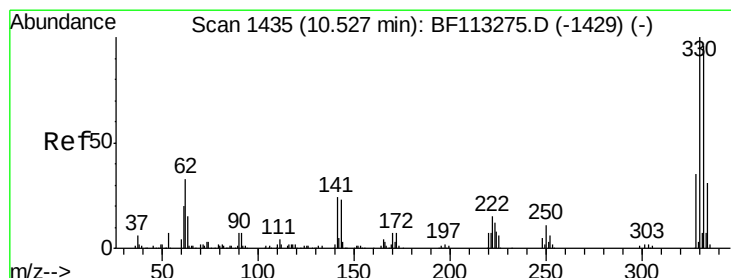
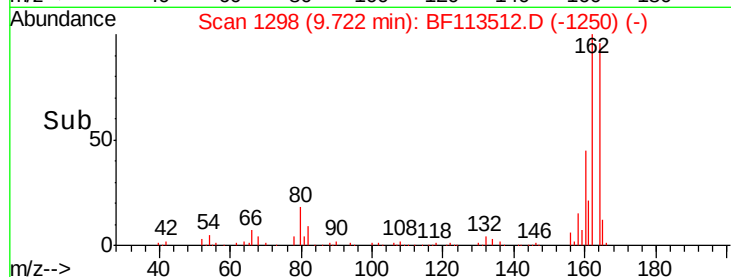
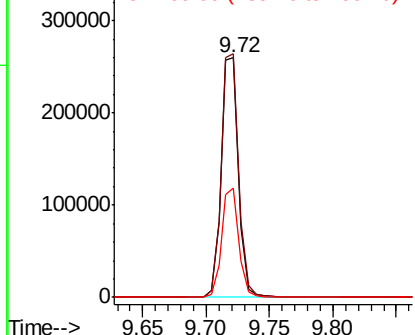
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.72 min Scan# 1298
 Delta R.T. -0.02 min
 Lab File: BF113512.D
 Acq: 2 Apr 2019 18:18

Instrument :
 BNA_F
 ClientSampleId :
 VN-SP-2

Tgt Ion:164 Resp: 247504
 Ion Ratio Lower Upper
 164 100
 162 101.7 81.8 122.6
 160 45.8 36.4 54.6

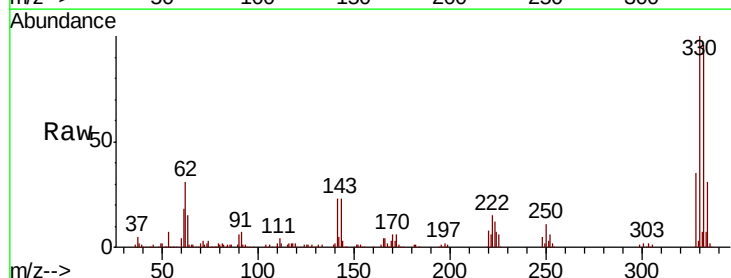


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

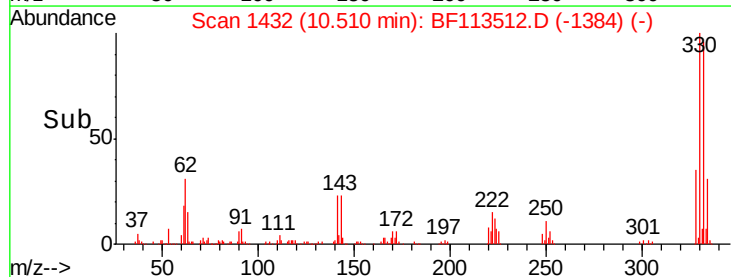
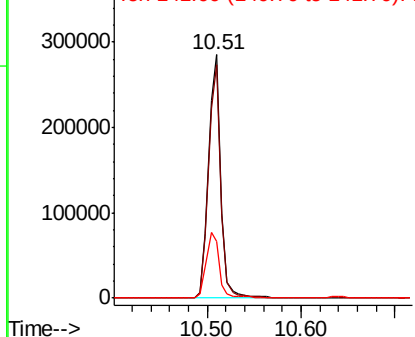


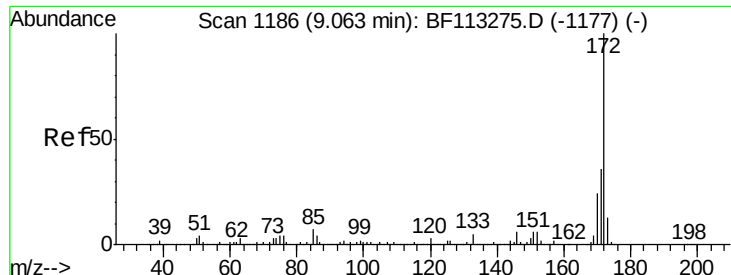
#42
 2,4,6-Tribromophenol
 Concen: 86.133 ng
 RT: 10.51 min Scan# 1432
 Delta R.T. -0.02 min
 Lab File: BF113512.D
 Acq: 2 Apr 2019 18:18

Tgt Ion:330 Resp: 263330
 Ion Ratio Lower Upper
 330 100
 332 96.3 77.8 116.6
 141 28.2 22.7 34.1



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

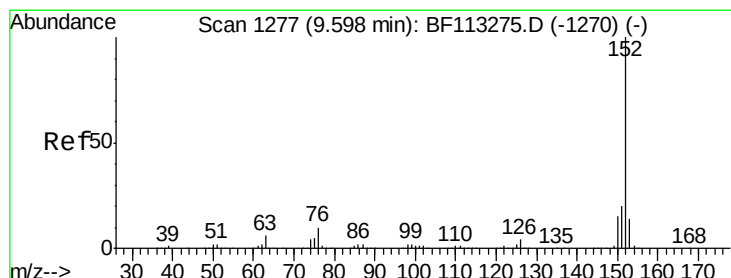
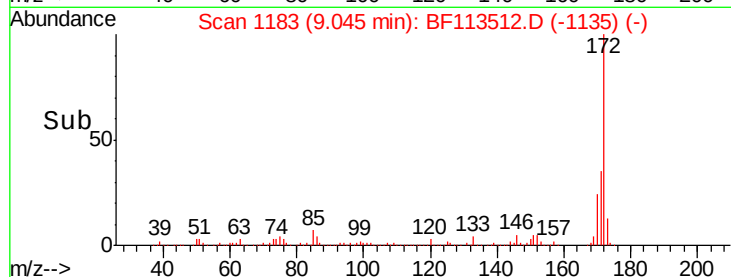
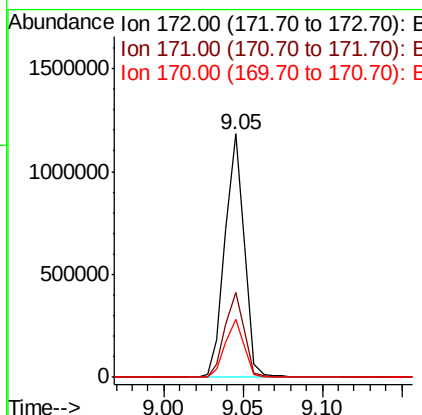
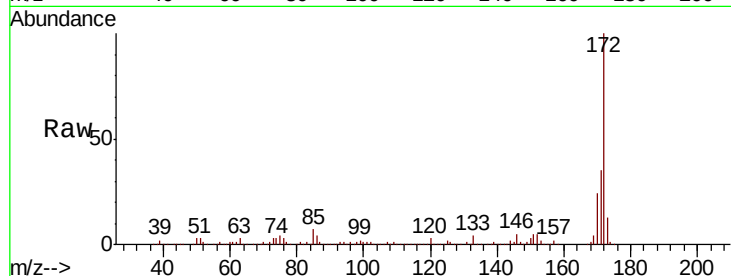




#45
2-Fluorobiphenyl
Concen: 57.796 ng
RT: 9.05 min Scan# 1183
Delta R.T. -0.02 min
Lab File: BF113512.D
Acq: 2 Apr 2019 18:18

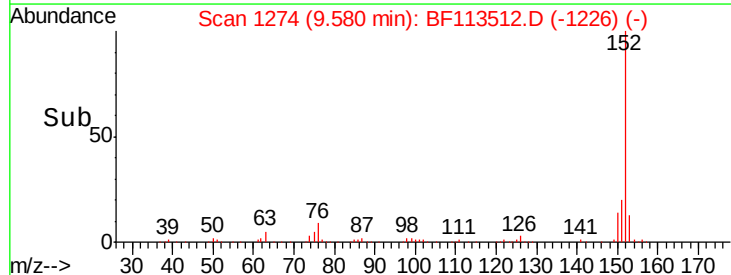
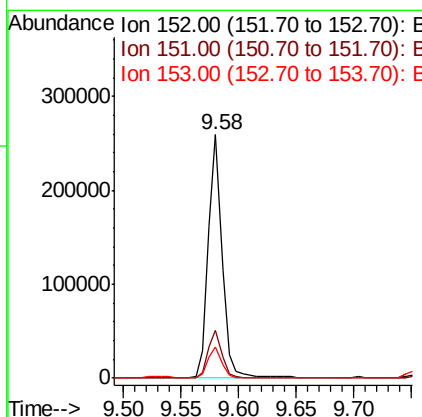
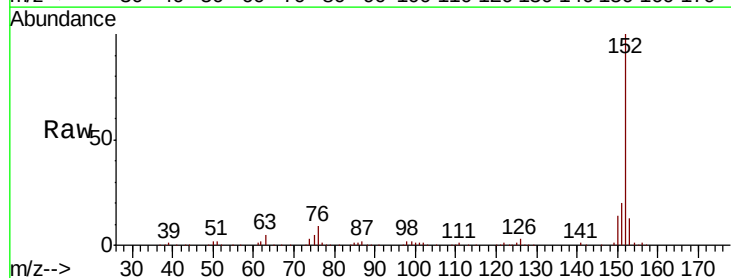
Instrument :
BNA_F
ClientSampleId :
VN-SP-2

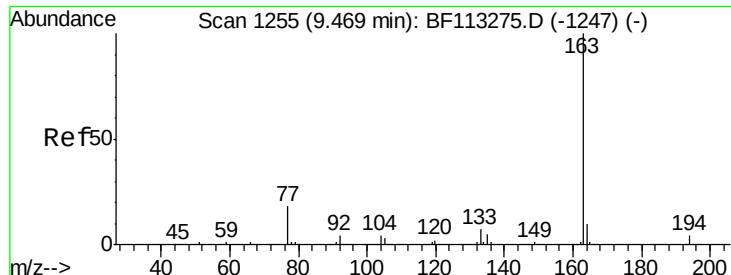
Tgt Ion:172 Resp: 1001797
Ion Ratio Lower Upper
172 100
171 34.7 29.0 43.6
170 24.1 19.5 29.3



#49
Acenaphthylene
Concen: 8.538 ng
RT: 9.58 min Scan# 1274
Delta R.T. -0.02 min
Lab File: BF113512.D
Acq: 2 Apr 2019 18:18

Tgt Ion:152 Resp: 219711
Ion Ratio Lower Upper
152 100
151 19.5 16.2 24.4
153 13.0 11.0 16.6





#50

Dimethylphthalate

Concen: 3.499 ng

RT: 9.44 min Scan# 1250

Delta R.T. -0.03 min

Lab File: BF113512.D

Acq: 2 Apr 2019 18:18

Instrument :

BNA_F

ClientSampled :

VN-SP-2

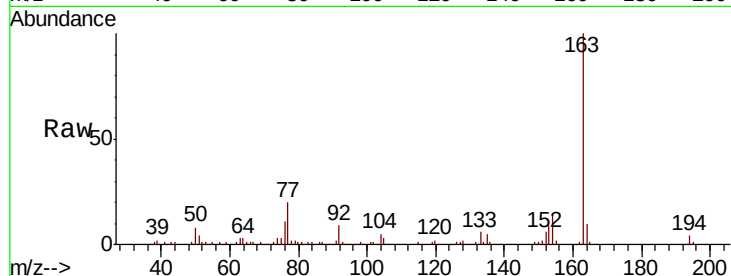
Tgt Ion:163 Resp: 64170

Ion Ratio Lower Upper

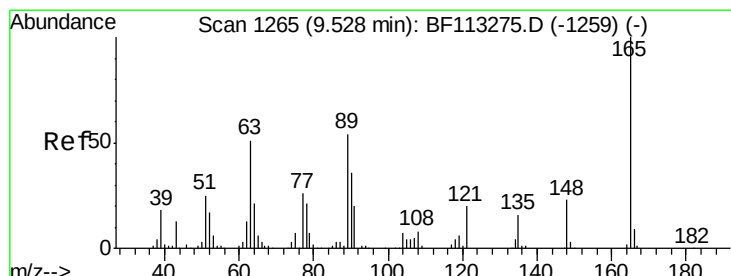
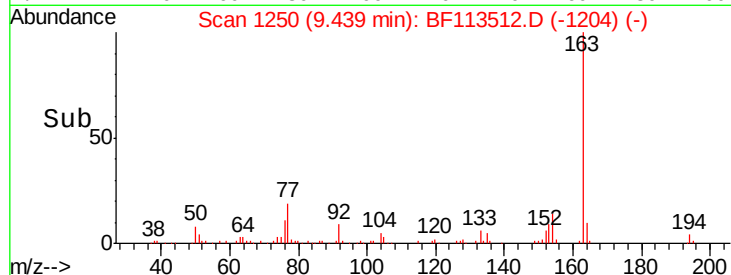
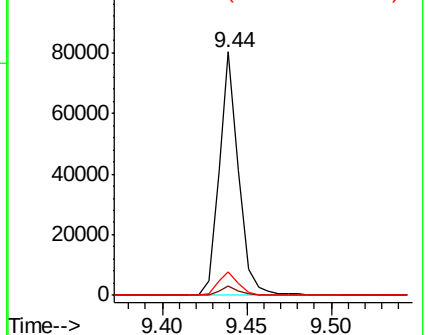
163 100

194 3.9 3.0 4.6

164 9.8 8.1 12.1



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



#51

2,6-Dinitrotoluene

Concen: 7.798 ng

RT: 9.72 min Scan# 1297

Delta R.T. 0.19 min

Lab File: BF113512.D

Acq: 2 Apr 2019 18:18

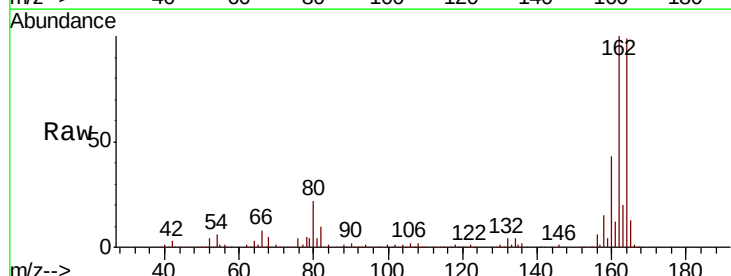
Tgt Ion:165 Resp: 32269

Ion Ratio Lower Upper

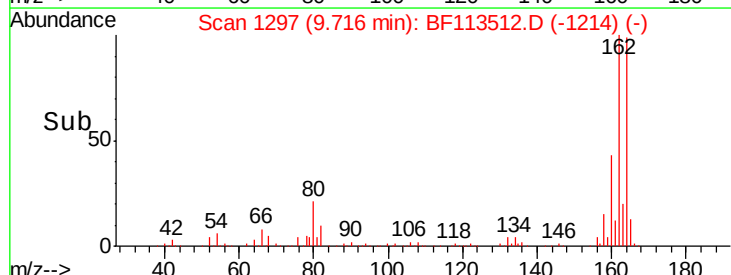
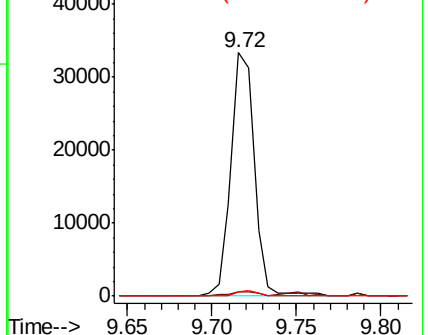
165 100

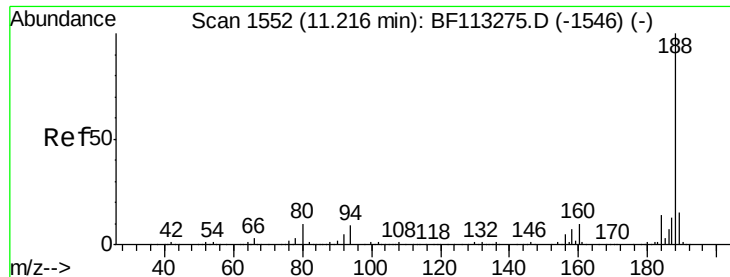
63 1.6 43.4 65.0#

89 1.7 43.1 64.7#



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

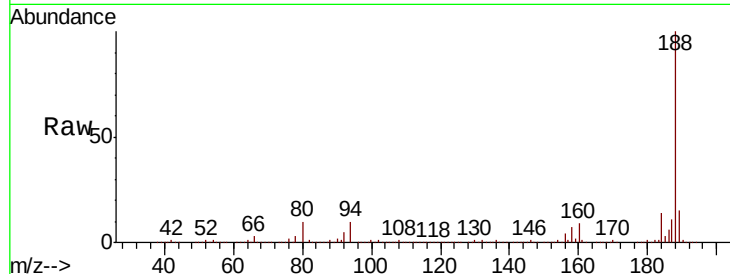




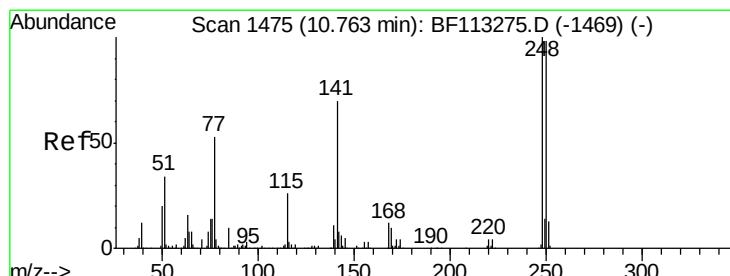
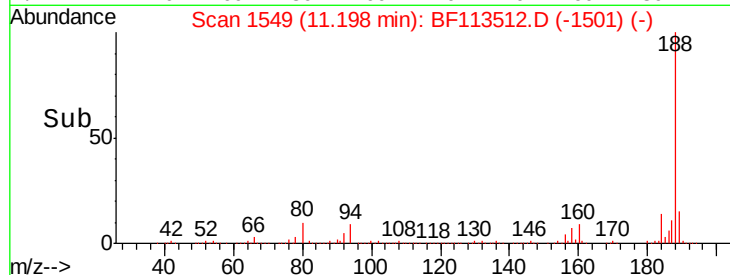
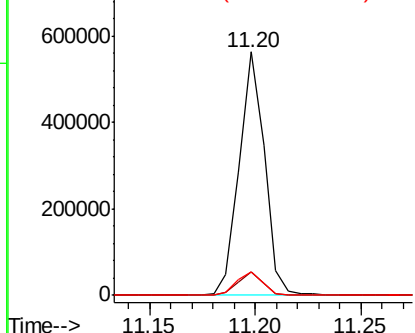
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.20 min Scan# 1549
Delta R.T. -0.02 min
Lab File: BF113512.D
Acq: 2 Apr 2019 18:18

Instrument :
BNA_F
ClientSampleId :
VN-SP-2

Tgt Ion:188 Resp: 467154
Ion Ratio Lower Upper
188 100
94 9.6 7.0 10.6
80 9.7 7.7 11.5

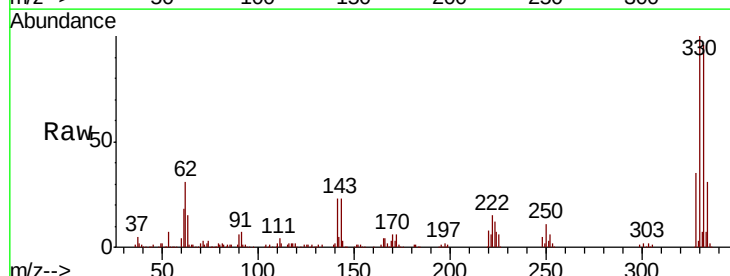


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

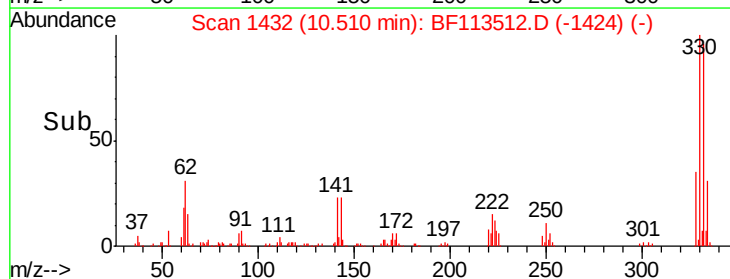
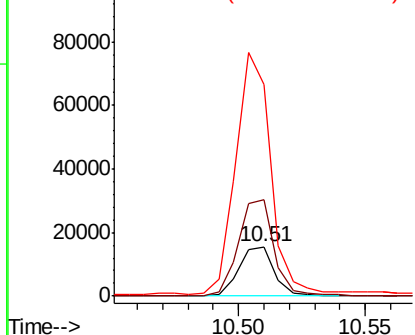


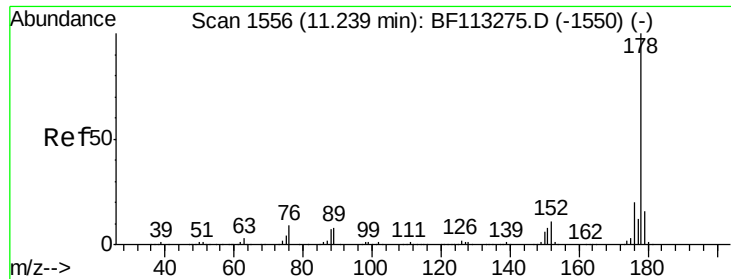
#67
4-Bromophenyl-phenylether
Concen: 2.946 ng
RT: 10.51 min Scan# 1432
Delta R.T. -0.25 min
Lab File: BF113512.D
Acq: 2 Apr 2019 18:18

Tgt Ion:248 Resp: 15002
Ion Ratio Lower Upper
248 100
250 195.4 78.3 117.5#
141 425.7 56.2 84.4#



Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

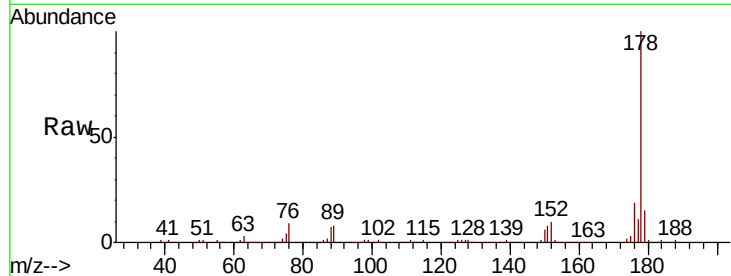




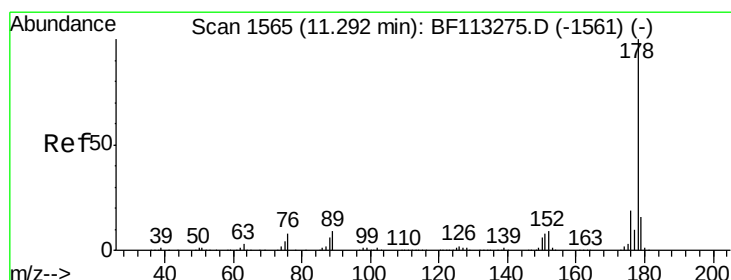
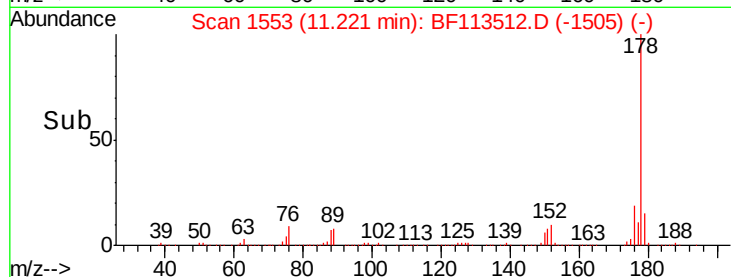
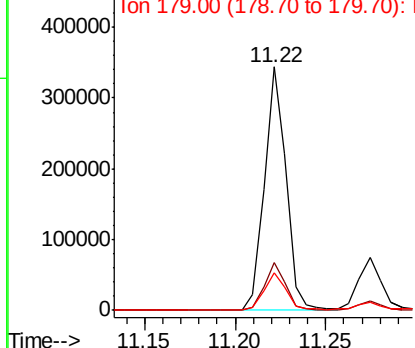
#71
Phenanthrene
Concen: 12.293 ng
RT: 11.22 min Scan# 1553
Delta R.T. -0.02 min
Lab File: BF113512.D
Acq: 2 Apr 2019 18:18

Instrument :
BNA_F
ClientSampleId :
VN-SP-2

Tgt Ion:178 Resp: 285175
Ion Ratio Lower Upper
178 100
176 19.4 16.2 24.2
179 15.5 12.7 19.1

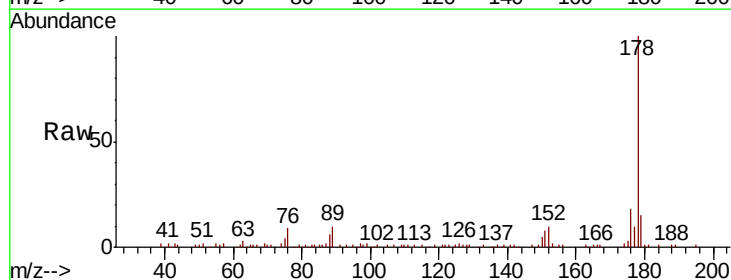


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

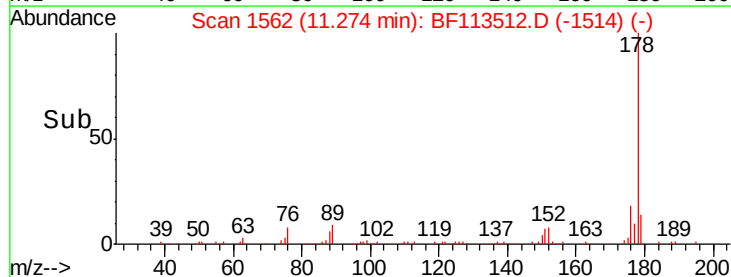
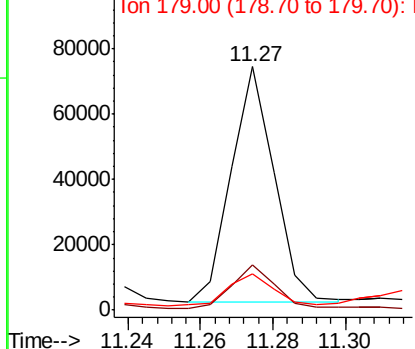


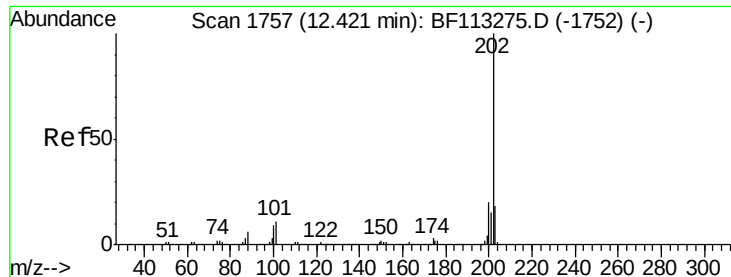
#72
Anthracene
Concen: 2.557 ng
RT: 11.27 min Scan# 1562
Delta R.T. -0.02 min
Lab File: BF113512.D
Acq: 2 Apr 2019 18:18

Tgt Ion:178 Resp: 60262
Ion Ratio Lower Upper
178 100
176 18.3 15.4 23.2
179 15.0 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





#75

Fluoranthene

Concen: 32.601 ng

RT: 12.41 min Scan# 1755

Delta R.T. -0.01 min

Lab File: BF113512.D

Acq: 2 Apr 2019 18:18

Instrument :

BNA_F

ClientSampled :

VN-SP-2

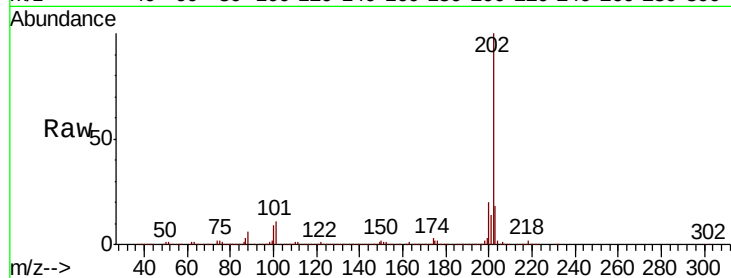
Tgt Ion:202 Resp: 855005

Ion Ratio Lower Upper

202 100

101 10.9 0.0 31.4

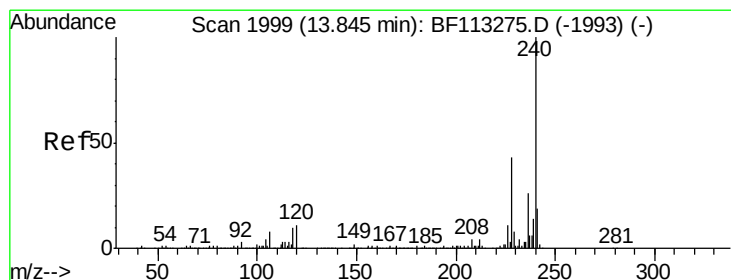
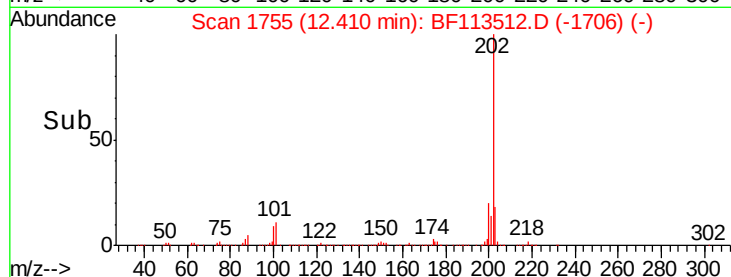
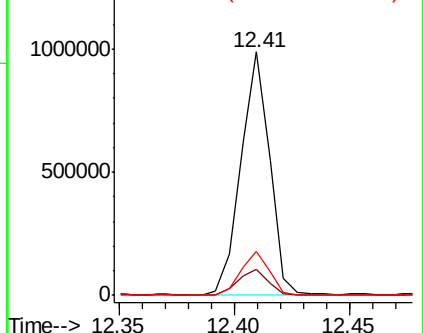
203 18.0 0.0 38.0



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: 13.83 min Scan# 1997

Delta R.T. -0.01 min

Lab File: BF113512.D

Acq: 2 Apr 2019 18:18

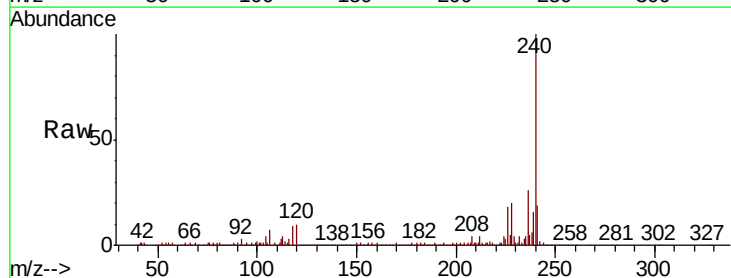
Tgt Ion:240 Resp: 322774

Ion Ratio Lower Upper

240 100

120 10.1 8.8 13.2

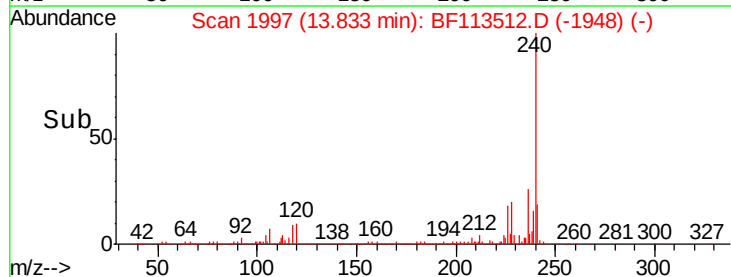
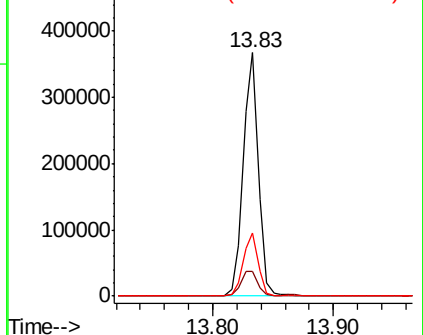
236 26.1 20.9 31.3

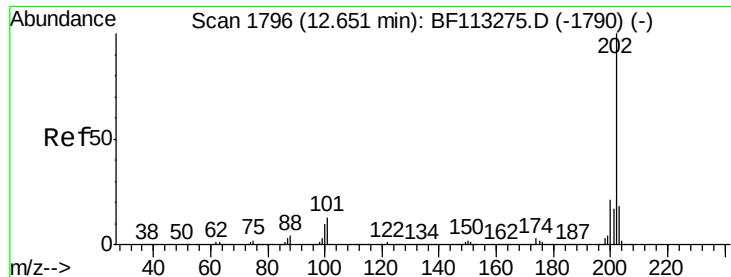


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pyrene

Concen: 54.956 ng

RT: 12.64 min Scan# 1794

Delta R.T. -0.01 min

Lab File: BF113512.D

Acq: 2 Apr 2019 18:18

Instrument :

BNA_F

ClientSampleId :

VN-SP-2

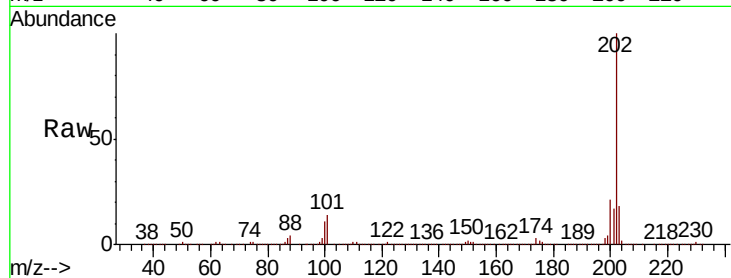
Tgt Ion:202 Resp: 1229215

Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

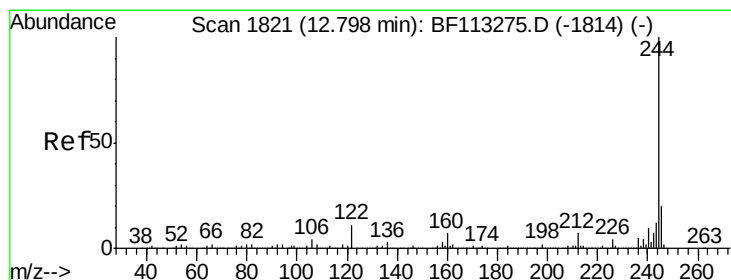
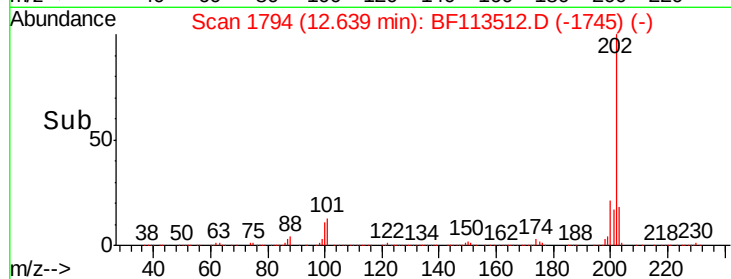
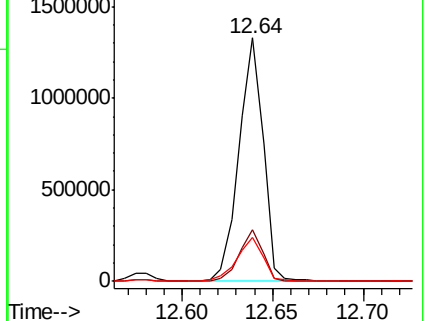
203 18.0 14.4 21.6



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: 61.670 ng

RT: 12.78 min Scan# 1818

Delta R.T. -0.02 min

Lab File: BF113512.D

Acq: 2 Apr 2019 18:18

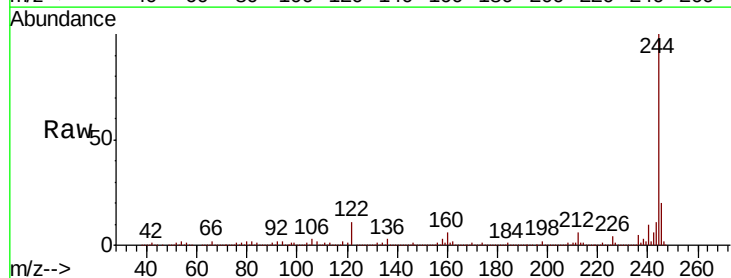
Tgt Ion:244 Resp: 903088

Ion Ratio Lower Upper

244 100

212 6.4 5.5 8.3

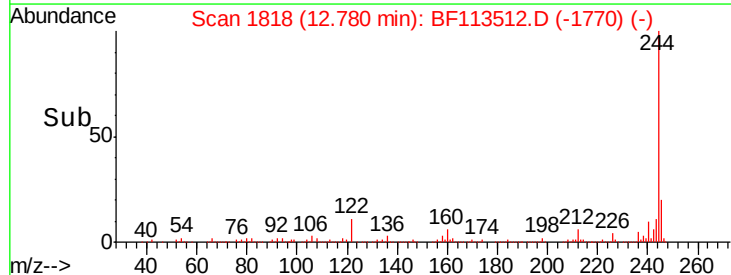
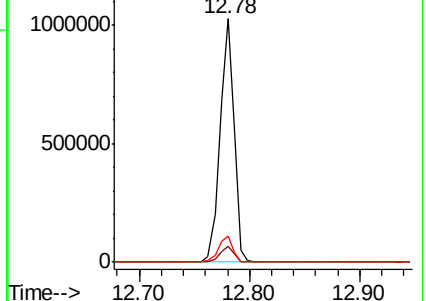
122 10.8 8.6 13.0

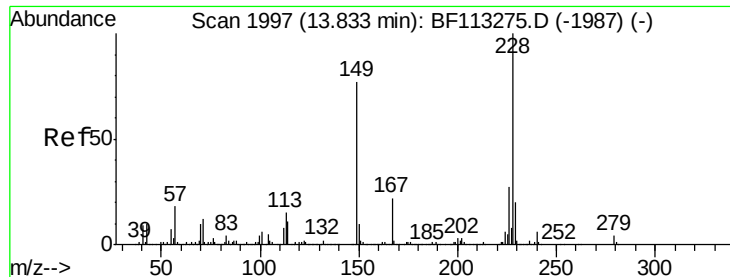


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

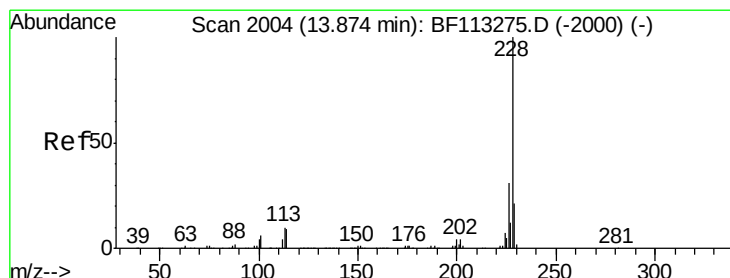
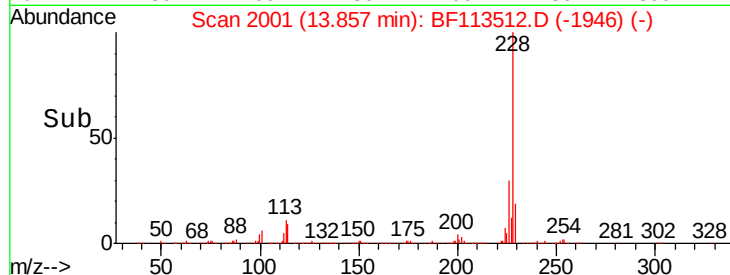
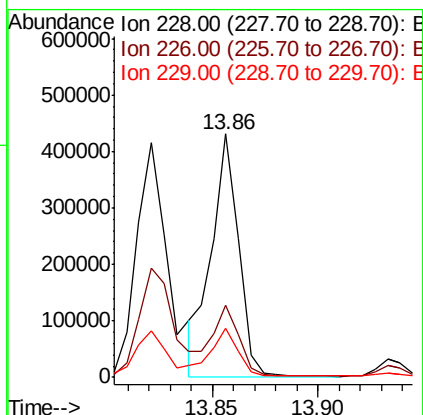
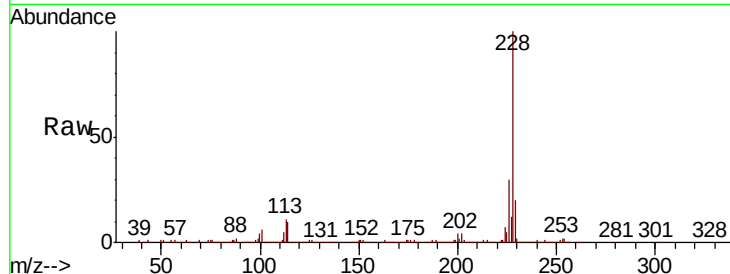




#81
Benzo(a)anthracene
Concen: 21.009 ng
RT: 13.86 min Scan# 2001
Delta R.T. 0.02 min
Lab File: BF113512.D
Acq: 2 Apr 2019 18:18

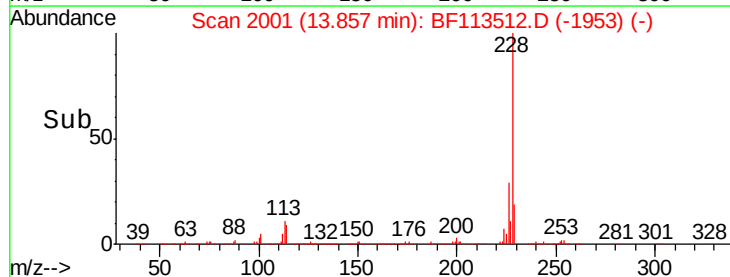
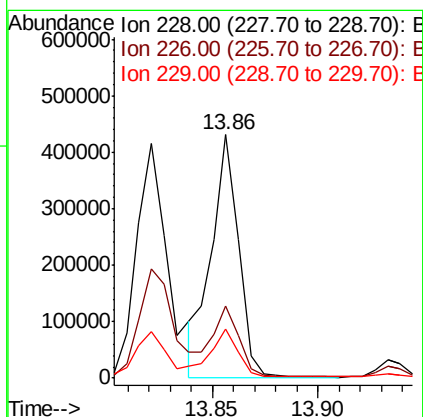
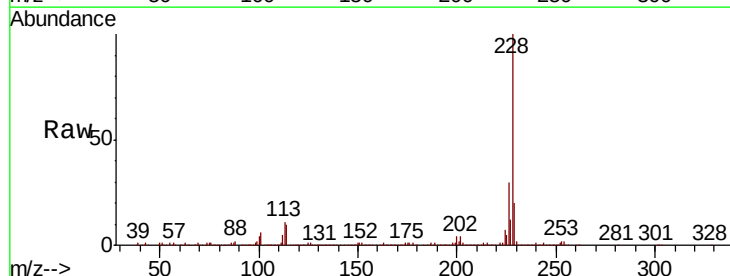
Instrument :
BNA_F
ClientSampled :
VN-SP-2

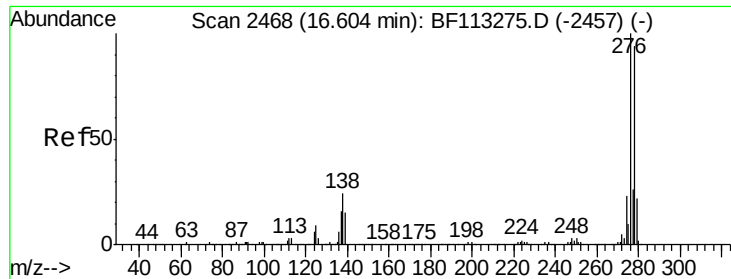
Tgt Ion:228 Resp: 388160
Ion Ratio Lower Upper
228 100
226 29.8 21.8 32.8
229 20.0 16.2 24.4



#83
Chrysene
Concen: 20.683 ng
RT: 13.86 min Scan# 2001
Delta R.T. -0.02 min
Lab File: BF113512.D
Acq: 2 Apr 2019 18:18

Tgt Ion:228 Resp: 388160
Ion Ratio Lower Upper
228 100
226 29.8 24.3 36.5
229 20.0 16.3 24.5





#86

Indeno(1,2,3-cd)pyrene

Concen: 23.183 ng

RT: 16.59 min Scan# 2465

Delta R.T. -0.02 min

Lab File: BF113512.D

Acq: 2 Apr 2019 18:18

Instrument :

BNA_F

ClientSampleId :

VN-SP-2

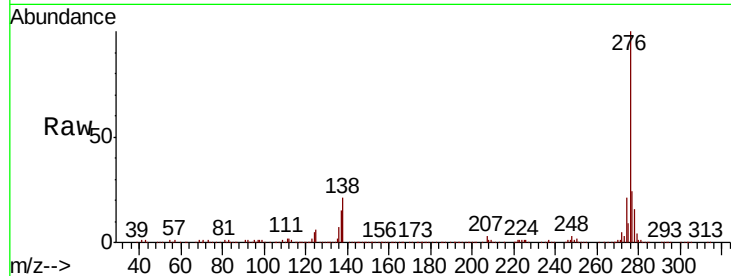
Tgt Ion:276 Resp: 373385

Ion Ratio Lower Upper

276 100

138 19.6 18.1 27.1

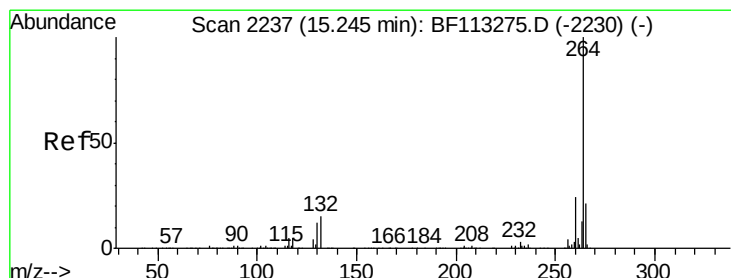
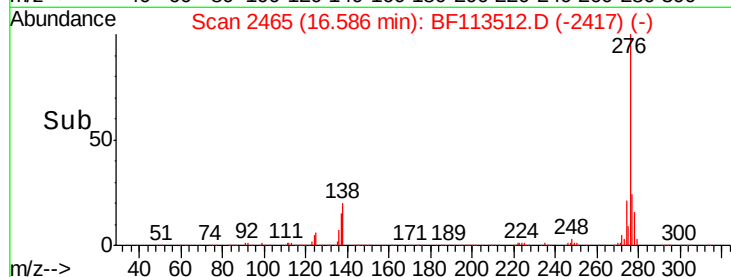
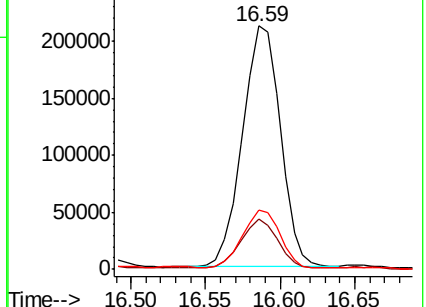
277 23.8 20.2 30.4



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.24 min Scan# 2236

Delta R.T. -0.01 min

Lab File: BF113512.D

Acq: 2 Apr 2019 18:18

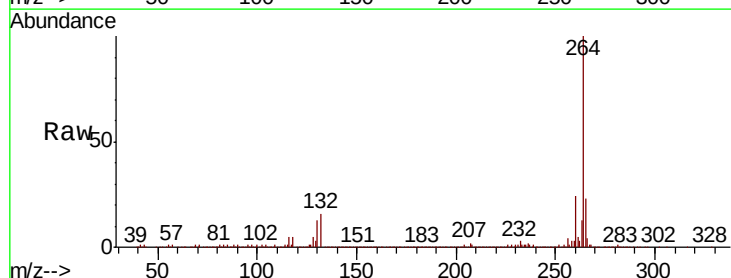
Tgt Ion:264 Resp: 378522

Ion Ratio Lower Upper

264 100

260 23.8 19.1 28.7

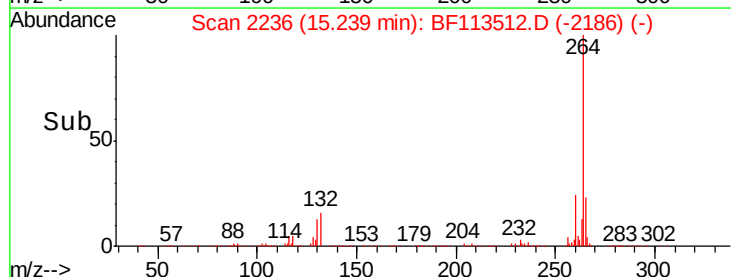
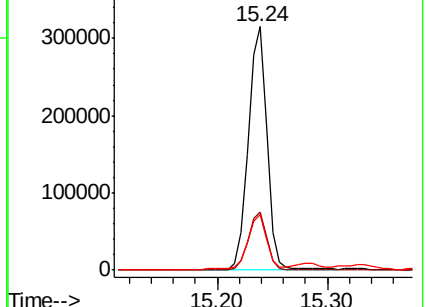
265 22.7 17.1 25.7

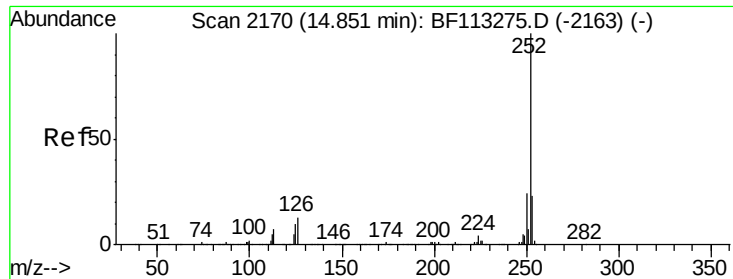


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

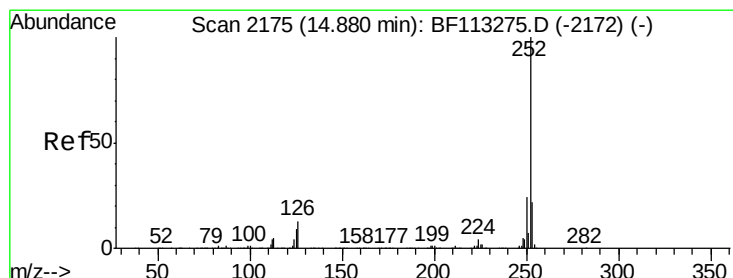
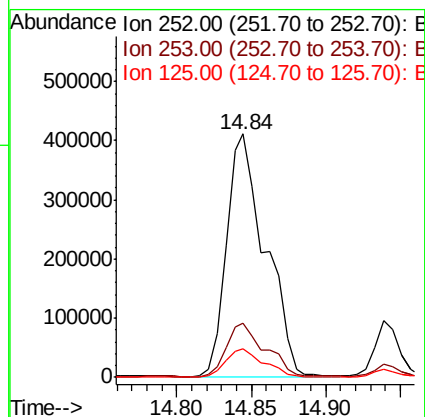
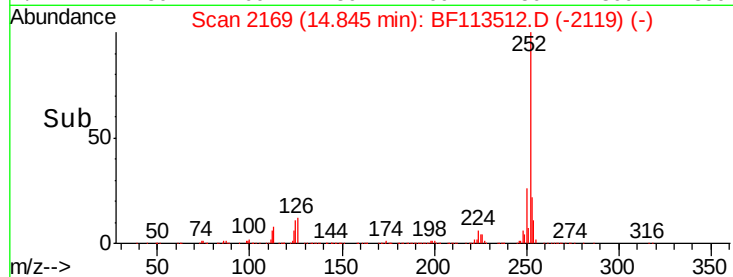
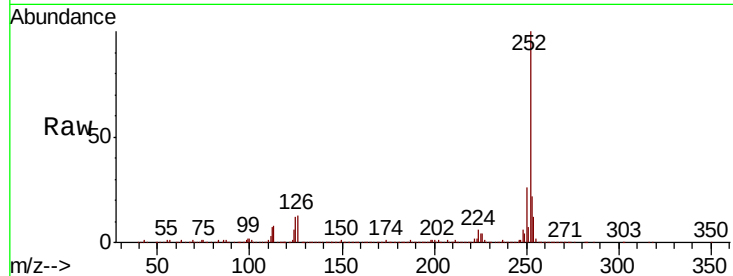




#88
Benzo(b)fluoranthene
Concen: 31.511 ng
RT: 14.84 min Scan# 2169
Delta R.T. -0.01 min
Lab File: BF113512.D
Acq: 2 Apr 2019 18:18

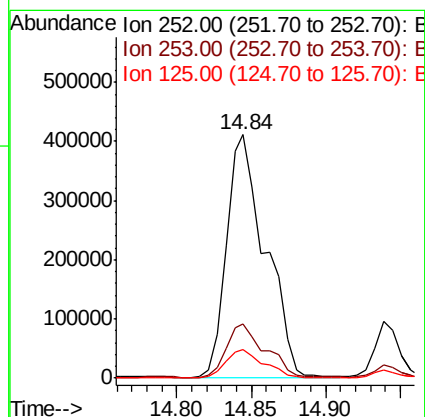
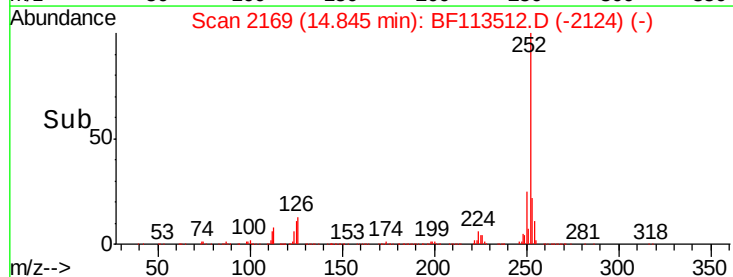
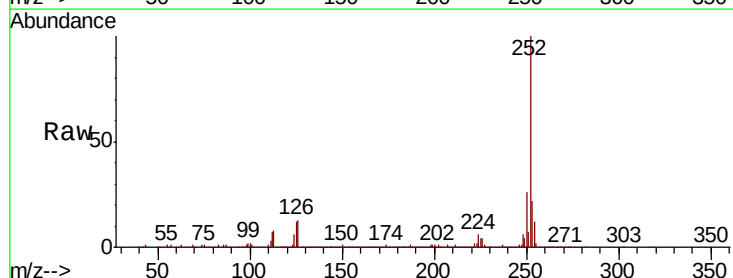
Instrument :
BNA_F
ClientSampleId :
VN-SP-2

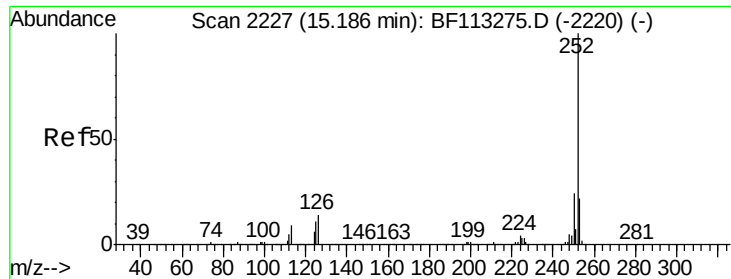
Tgt Ion:252 Resp: 740951
Ion Ratio Lower Upper
252 100
253 22.2 18.0 27.0
125 11.7 7.6 11.4#



#89
Benzo(k)fluoranthene
Concen: 35.883 ng
RT: 14.84 min Scan# 2169
Delta R.T. -0.04 min
Lab File: BF113512.D
Acq: 2 Apr 2019 18:18

Tgt Ion:252 Resp: 740951
Ion Ratio Lower Upper
252 100
253 22.2 17.7 26.5
125 11.7 7.3 10.9#





#90

Benzo(a)pyrene

Concen: 24.324 ng

RT: 15.18 min Scan# 2226

Delta R.T. -0.01 min

Lab File: BF113512.D

Acq: 2 Apr 2019 18:18

Instrument :

BNA_F

ClientSampleId :

VN-SP-2

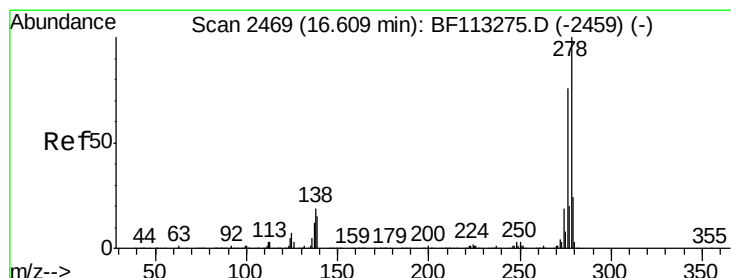
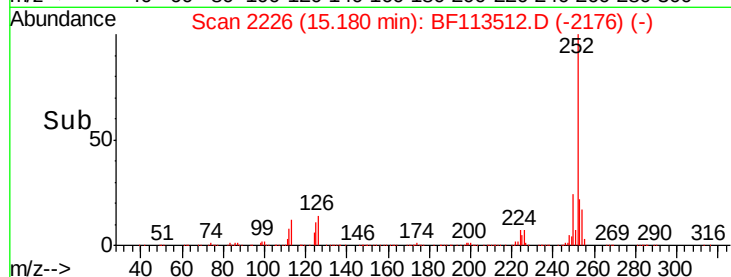
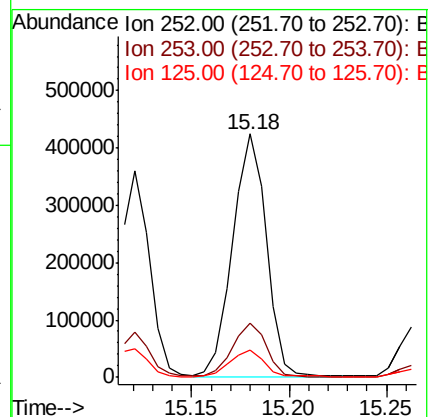
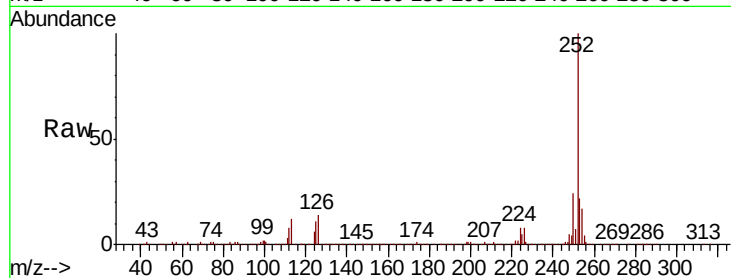
Tgt Ion:252 Resp: 507052

Ion Ratio Lower Upper

252 100

253 22.1 17.9 26.9

125 11.1 8.8 13.2



#91

Dibenzo(a,h)anthracene

Concen: 2.423 ng

RT: 16.74 min Scan# 2492

Delta R.T. 0.14 min

Lab File: BF113512.D

Acq: 2 Apr 2019 18:18

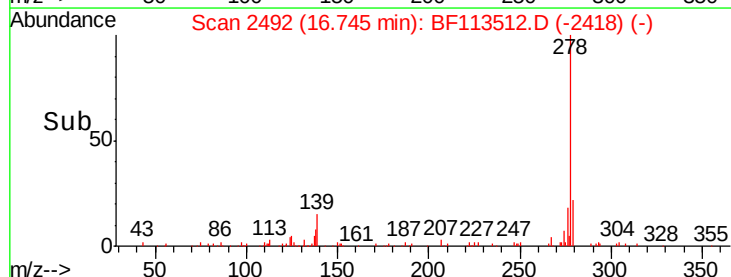
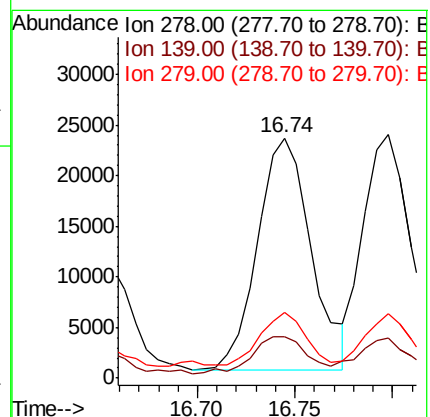
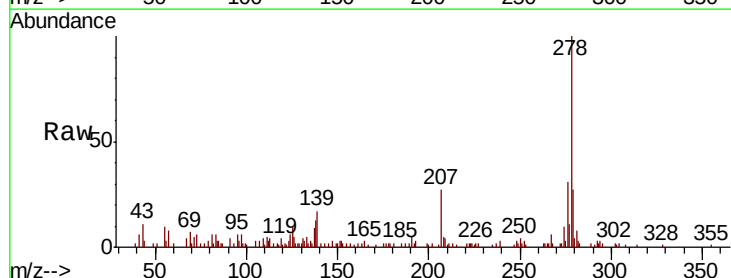
Tgt Ion:278 Resp: 43679

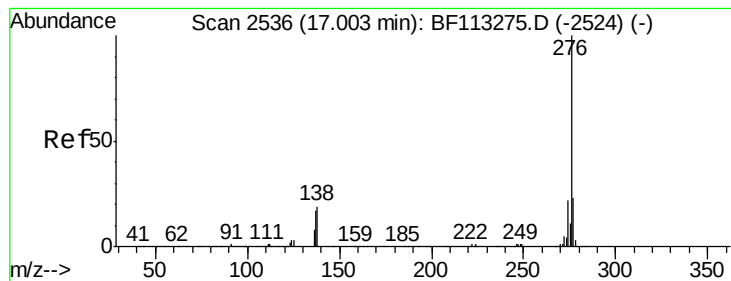
Ion Ratio Lower Upper

278 100

139 17.3 12.0 18.0

279 27.3 19.0 28.6





#92

Benzo(g,h,i)perylene

Concen: 24.867 ng

RT: 17.00 min Scan# 2535

Delta R.T. -0.01 min

Lab File: BF113512.D

Acq: 2 Apr 2019 18:18

Instrument :

BNA_F

ClientSampleId :

VN-SP-2

Tgt Ion: 276 Resp: 451939

Ion Ratio Lower Upper

276 100

277 23.4 18.8 28.2

138 20.7 15.6 23.4

