

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040219\
 Data File : BF113511.D
 Acq On : 2 Apr 2019 17:50
 Operator : JU/SJ
 Sample : K2190-01
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 VN-SP-1

Quant Time: Apr 03 01:01:47 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	127111	20.00	ng	-0.01
21) Naphthalene-d8	7.97	136	471834	20.00	ng	-0.01
39) Acenaphthene-d10	9.72	164	225658	20.00	ng	-0.02
64) Phenanthrene-d10	11.20	188	406325	20.00	ng	-0.02
76) Chrysene-d12	13.83	240	295368	20.00	ng	-0.02
87) Perylene-d12	15.23	264	351044	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.30	112	710488	91.40	ng	-0.01
7) Phenol-d6	6.34	99	942133	95.80	ng	-0.02
23) Nitrobenzene-d5	7.26	82	553763	69.66	ng	-0.01
42) 2,4,6-Tribromophenol	10.51	330	262938	94.33	ng	-0.02
45) 2-Fluorobiphenyl	9.05	172	1043938	69.24	ng	-0.02
79) Terphenyl-d14	12.78	244	905131	67.54	ng	-0.02

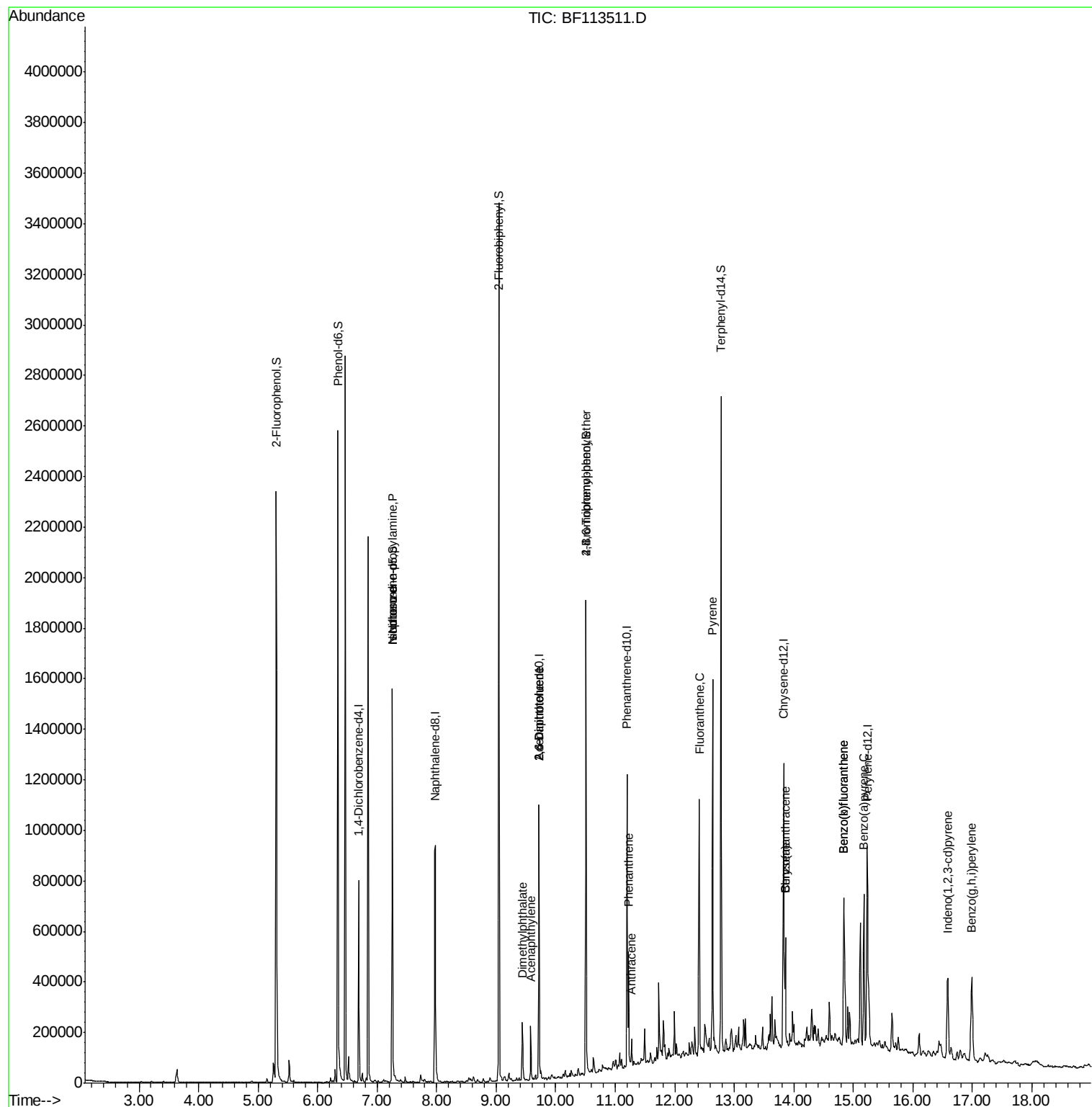
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.25	70	71082	11.507	ng	# 78
25) Isophorone	7.26	82	544102	35.318	ng	# 64
49) Acenaphthylene	9.58	152	94429	4.025	ng	98
50) Dimethylphthalate	9.44	163	86136	5.151	ng	98
51) 2,6-Dinitrotoluene	9.72	165	28835	7.643	ng	# 27
57) 2,4-Dinitrotoluene	9.72	165	28835	6.010	ng	# 24
67) 4-Bromophenyl-phenylether	10.50	248	14918	3.369	ng	# 1
71) Phenanthrene	11.22	178	159092	7.884	ng	97
72) Anthracene	11.27	178	46545	2.271	ng	98
75) Fluoranthene	12.41	202	430665	18.880	ng	99
78) Pyrene	12.63	202	606650	29.639	ng	99
81) Benzo(a)anthracene	13.86	228	188313	11.138	ng	96
83) Chrysene	13.86	228	188313	10.965	ng	100
86) Indeno(1,2,3-cd)pyrene	16.59	276	207478	14.077	ng	95
88) Benzo(b)fluoranthene	14.84	252	387169	17.755	ng	# 98
89) Benzo(k)fluoranthene	14.84	252	387169	20.217	ng	# 98
90) Benzo(a)pyrene	15.17	252	236747	12.246	ng	99
92) Benzo(g,h,i)perylene	16.99	276	271448	16.105	ng	99

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

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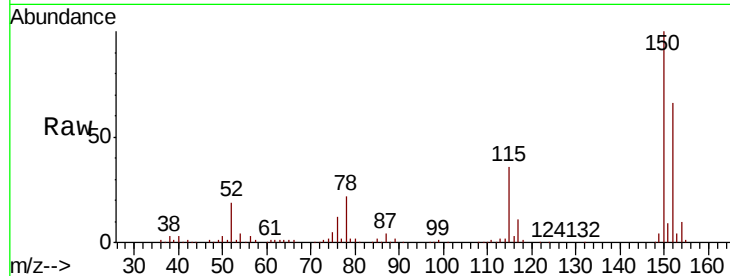


#1

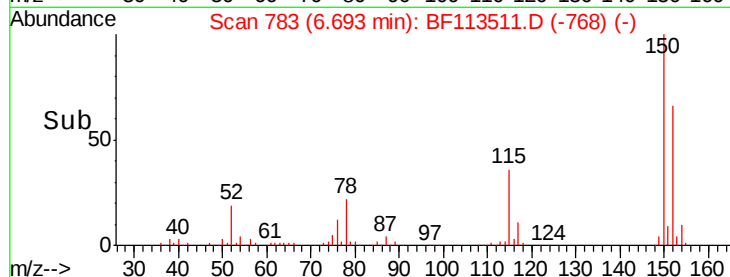
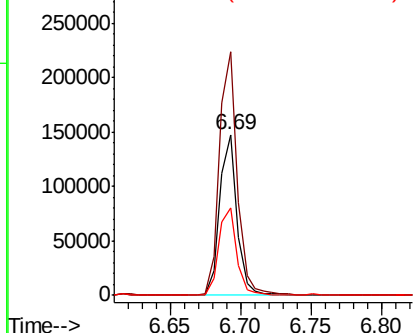
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.69 min Scan# 783
Delta R.T. -0.01 min
Lab File: BF113511.D
Acq: 2 Apr 2019 17:50

Instrument :
BNA_F
ClientSampleId :
VN-SP-1

Tgt Ion:152 Resp: 127111
Ion Ratio Lower Upper
152 100
150 151.6 124.7 187.1
115 54.6 46.0 69.0



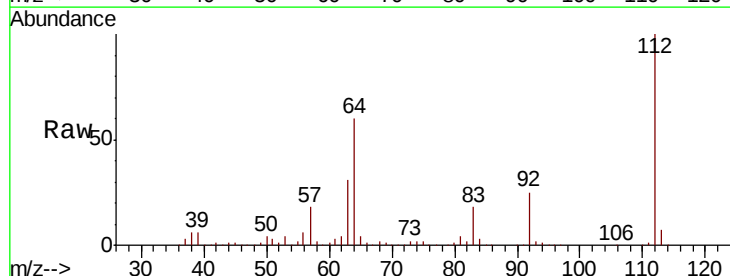
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



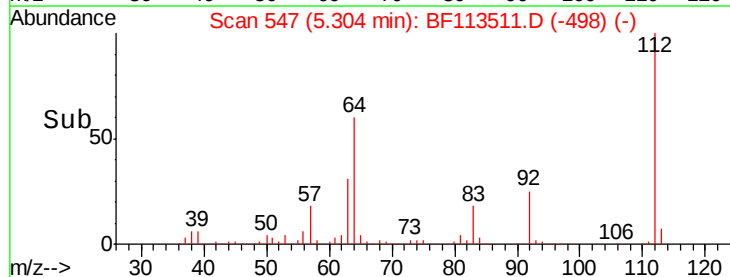
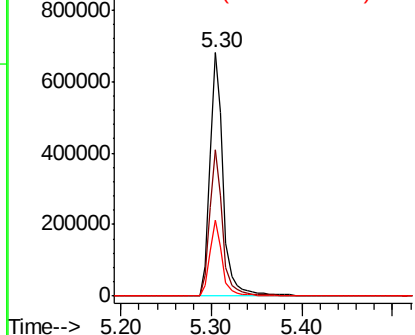
#5

2-Fluorophenol
Concen: 91.395 ng
RT: 5.30 min Scan# 547
Delta R.T. -0.01 min
Lab File: BF113511.D
Acq: 2 Apr 2019 17:50

Tgt Ion:112 Resp: 710488
Ion Ratio Lower Upper
112 100
64 59.9 49.2 73.8
63 30.9 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: 95.801 ng

RT: 6.34 min Scan# 723

Delta R.T. -0.02 min

Lab File: BF113511.D

Acq: 2 Apr 2019 17:50

Instrument :

BNA_F

ClientSampleId :

VN-SP-1

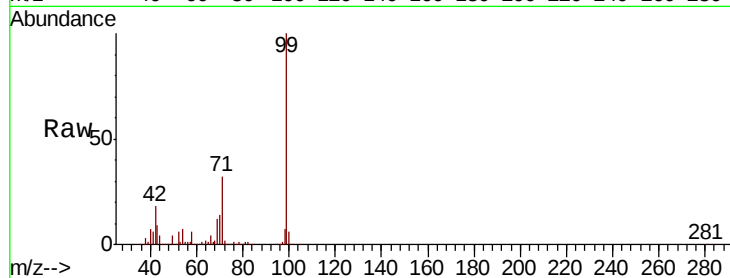
Tgt Ion: 99 Resp: 942133

Ion Ratio Lower Upper

99 100

42 18.1 14.8 22.2

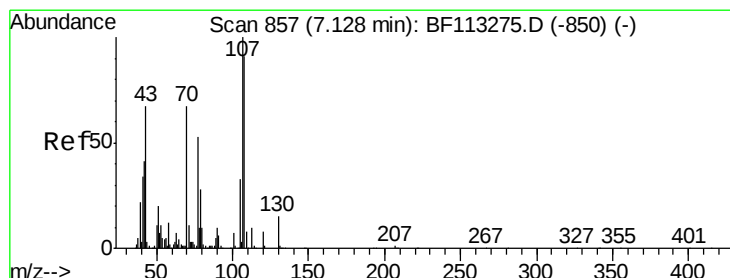
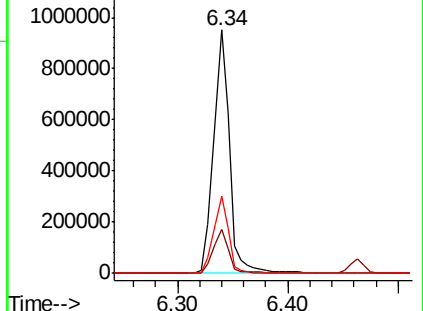
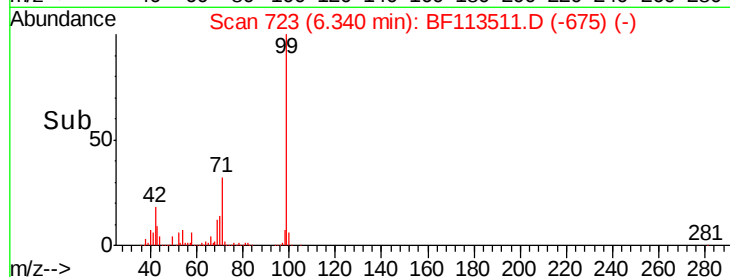
71 31.5 24.9 37.3



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: 11.507 ng

RT: 7.25 min Scan# 878

Delta R.T. 0.12 min

Lab File: BF113511.D

Acq: 2 Apr 2019 17:50

Tgt Ion: 70 Resp: 71082

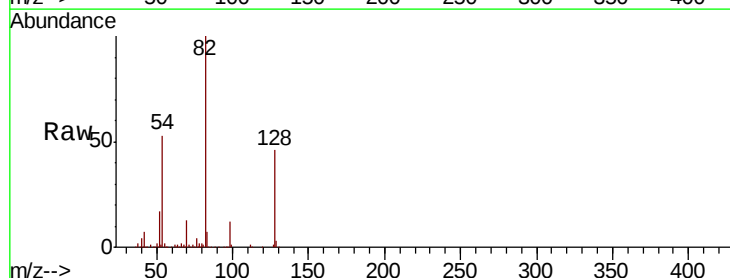
Ion Ratio Lower Upper

70 100

42 50.2 48.4 72.6

101 0.0 7.8 11.8#

130 2.3 18.2 27.4#

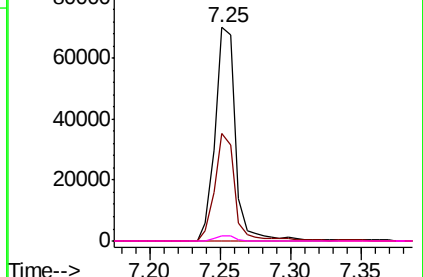
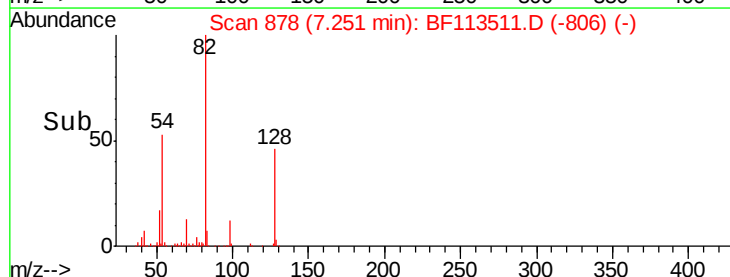


Abundance Ion 70.00 (69.70 to 70.70): BF1

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

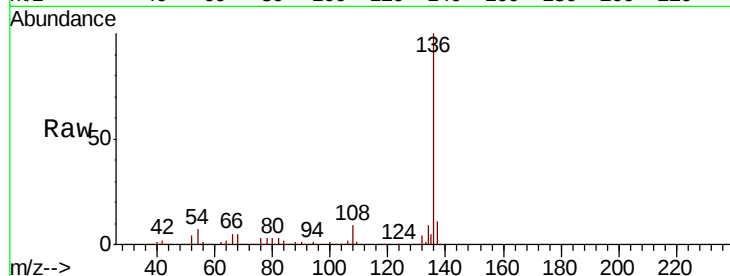




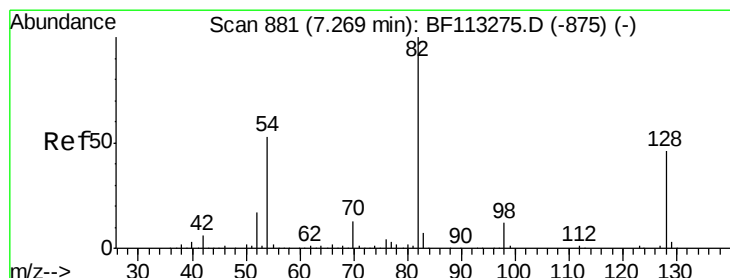
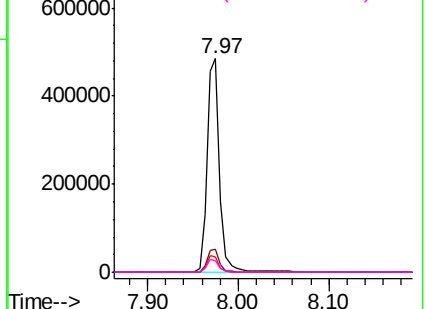
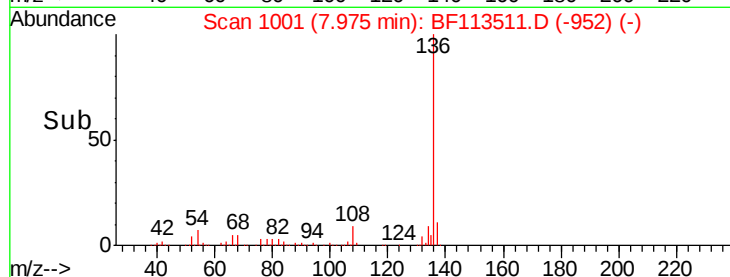
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.97 min Scan# 1001
Delta R.T. -0.01 min
Lab File: BF113511.D
Acq: 2 Apr 2019 17:50

Instrument :
BNA_F
ClientSampleId :
VN-SP-1

Tgt Ion:	136	Resp:	471834
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.9	13.3
54	7.3	7.0	10.6
68	5.5	4.8	7.2

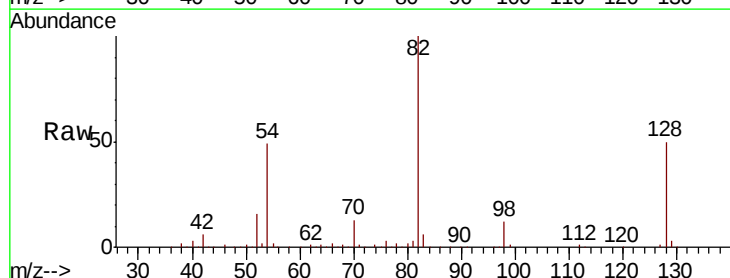


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

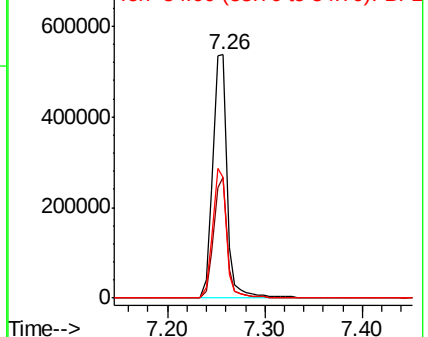
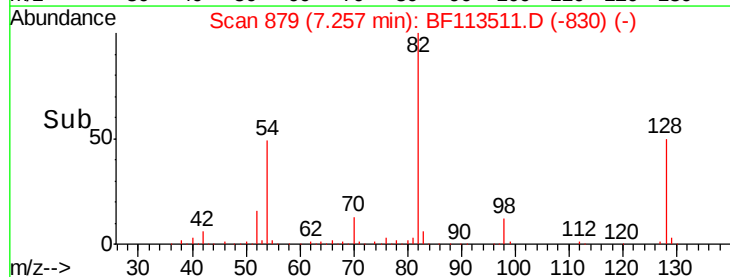


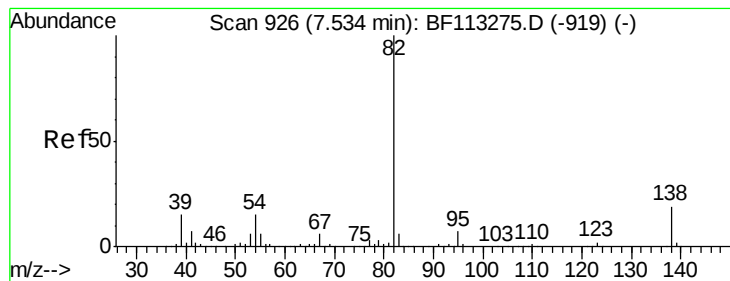
#23
Nitrobenzene-d5
Concen: 69.660 ng
RT: 7.26 min Scan# 879
Delta R.T. -0.01 min
Lab File: BF113511.D
Acq: 2 Apr 2019 17:50

Tgt Ion:	82	Resp:	553763
Ion	Ratio	Lower	Upper
82	100		
128	49.6	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): E
Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 35.318 ng

RT: 7.26 min Scan# 879

Delta R.T. -0.28 min

Lab File: BF113511.D

Acq: 2 Apr 2019 17:50

Instrument :

BNA_F

ClientSampleId :

VN-SP-1

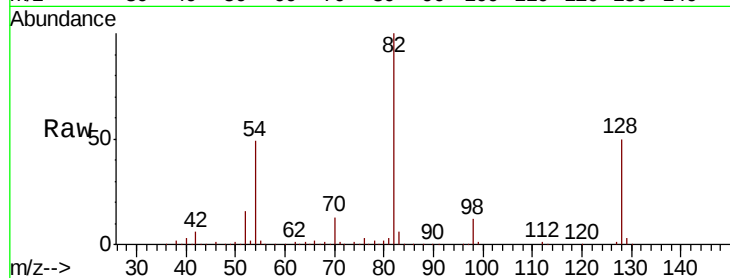
Tgt Ion: 82 Resp: 544102

Ion Ratio Lower Upper

82 100

95 0.0 5.5 8.3#

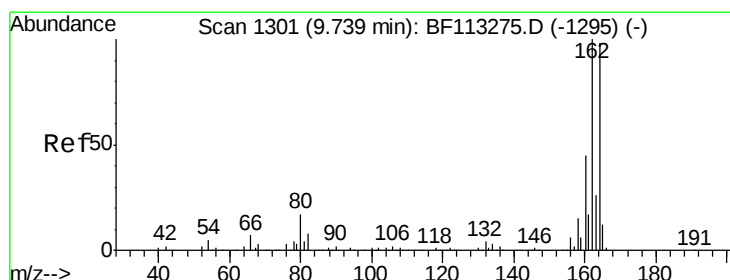
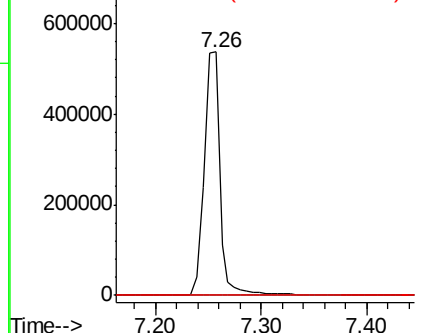
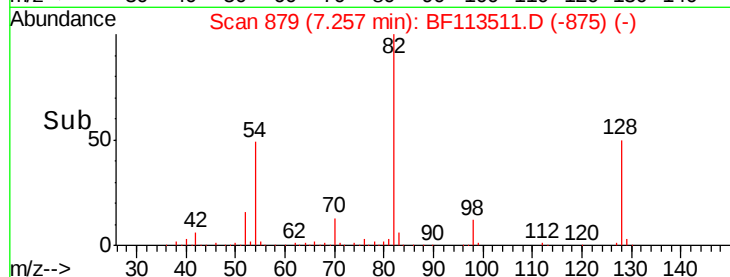
138 0.0 15.2 22.8#



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# 1297

Delta R.T. -0.02 min

Lab File: BF113511.D

Acq: 2 Apr 2019 17:50

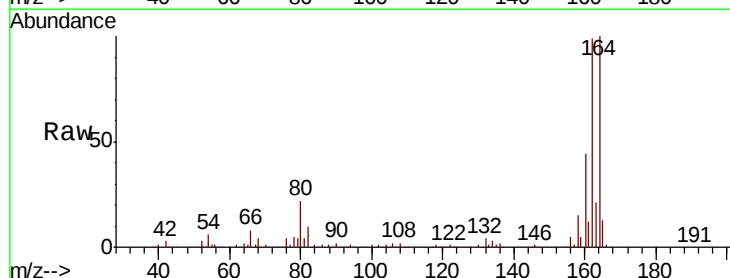
Tgt Ion: 164 Resp: 225658

Ion Ratio Lower Upper

164 100

162 99.5 81.8 122.6

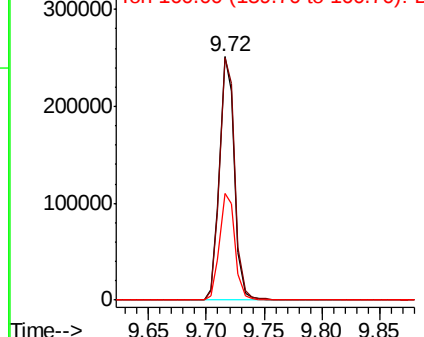
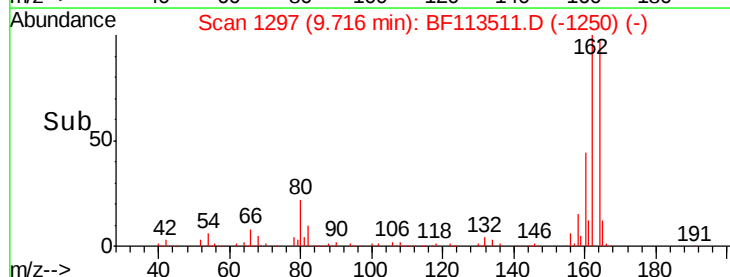
160 43.9 36.4 54.6

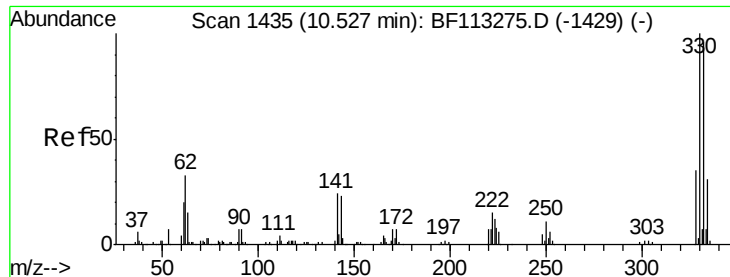


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

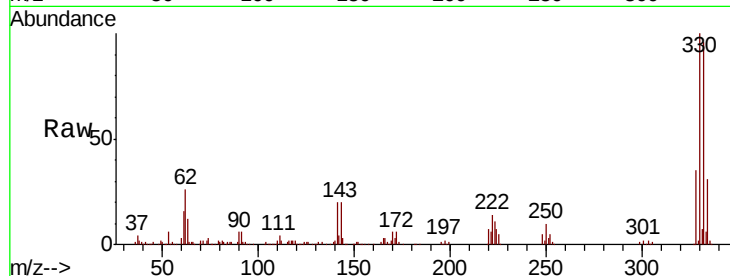




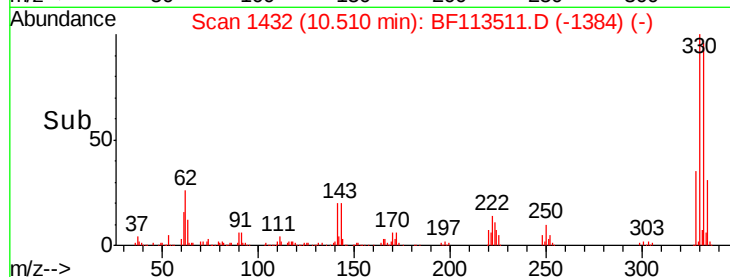
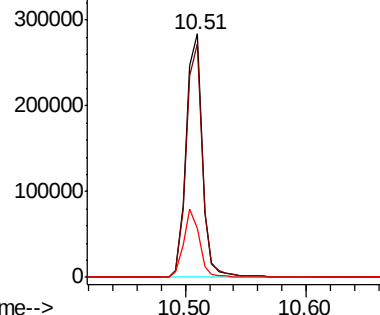
#42
 2,4,6-Tribromophenol
 Concen: 94.331 ng
 RT: 10.51 min Scan# 1432
 Delta R.T. -0.02 min
 Lab File: BF113511.D
 Acq: 2 Apr 2019 17:50

Instrument :
 BNA_F
 ClientSampleId :
 VN-SP-1

Tgt Ion:330 Resp: 262938
 Ion Ratio Lower Upper
 330 100
 332 95.8 77.8 116.6
 141 27.1 22.7 34.1

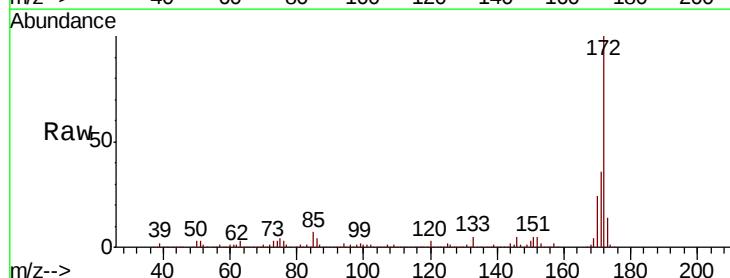


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

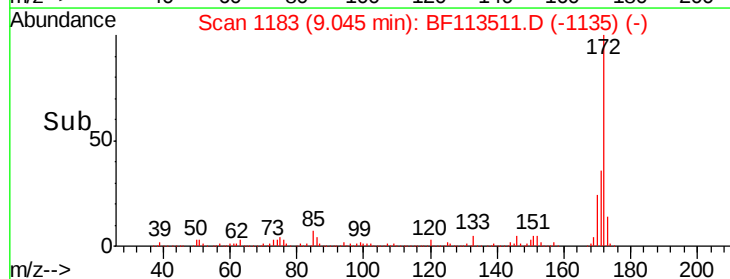
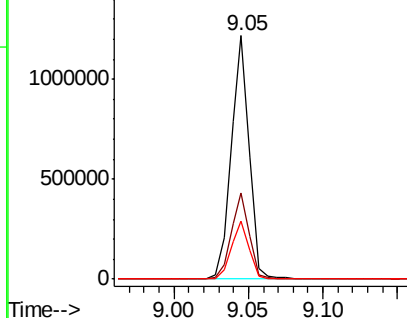


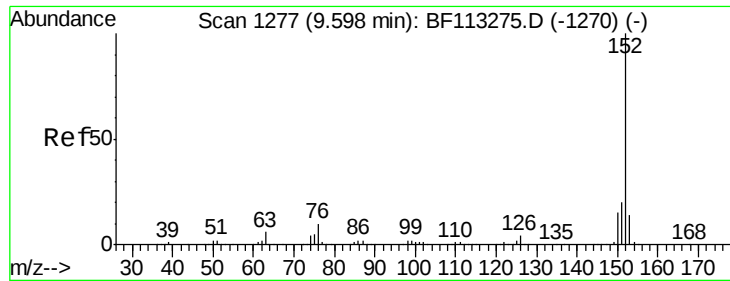
#45
 2-Fluorobiphenyl
 Concen: 69.239 ng
 RT: 9.05 min Scan# 1183
 Delta R.T. -0.02 min
 Lab File: BF113511.D
 Acq: 2 Apr 2019 17:50

Tgt Ion:172 Resp: 1043938
 Ion Ratio Lower Upper
 172 100
 171 35.6 29.0 43.6
 170 24.1 19.5 29.3



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





#49

Acenaphthylene

Concen: 4.025 ng

RT: 9.58 min Scan# 1274

Delta R.T. -0.02 min

Lab File: BF113511.D

Acq: 2 Apr 2019 17:50

Instrument :

BNA_F

ClientSampled :

VN-SP-1

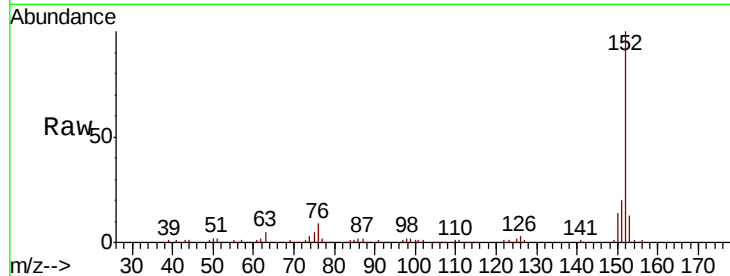
Tgt Ion:152 Resp: 94429

Ion Ratio Lower Upper

152 100

151 19.8 16.2 24.4

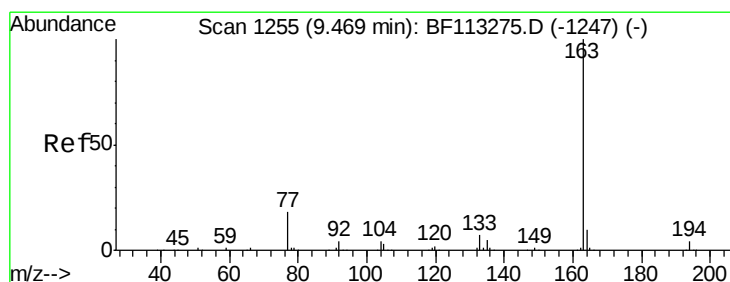
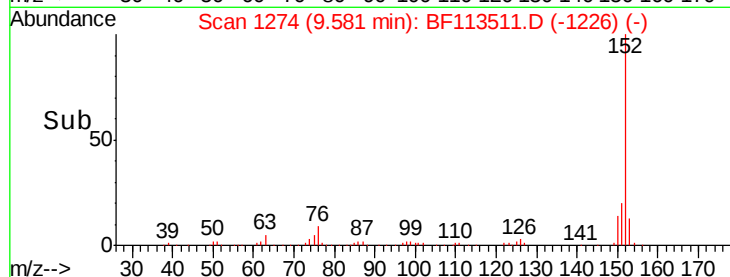
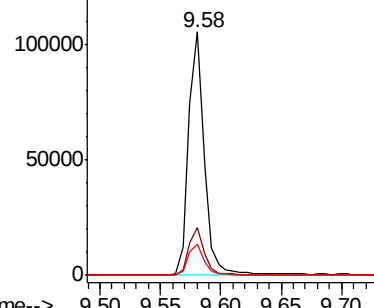
153 12.7 11.0 16.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 5.151 ng

RT: 9.44 min Scan# 1250

Delta R.T. -0.03 min

Lab File: BF113511.D

Acq: 2 Apr 2019 17:50

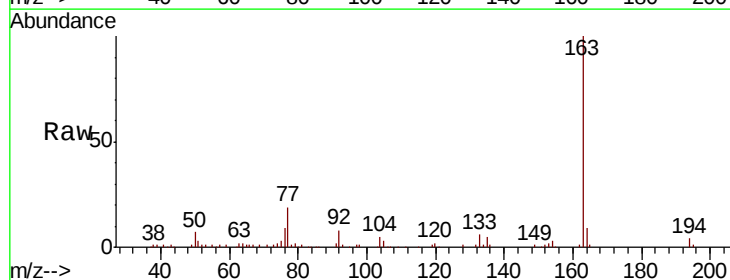
Tgt Ion:163 Resp: 86136

Ion Ratio Lower Upper

163 100

194 4.5 3.0 4.6

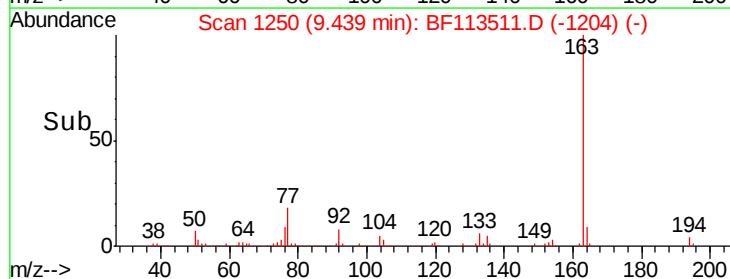
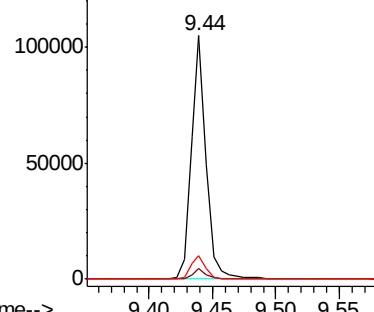
164 9.5 8.1 12.1

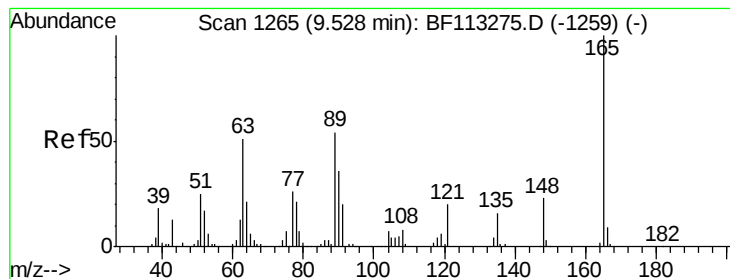


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

2,6-Dinitrotoluene

Concen: 7.643 ng

RT: 9.72 min Scan# 1297

Delta R.T. 0.19 min

Lab File: BF113511.D

Acq: 2 Apr 2019 17:50

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VN-SP-1

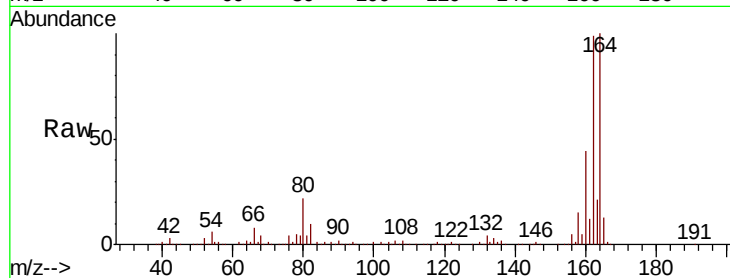
Tgt Ion:165 Resp: 28835

Ion Ratio Lower Upper

165 100

63 1.8 43.4 65.0#

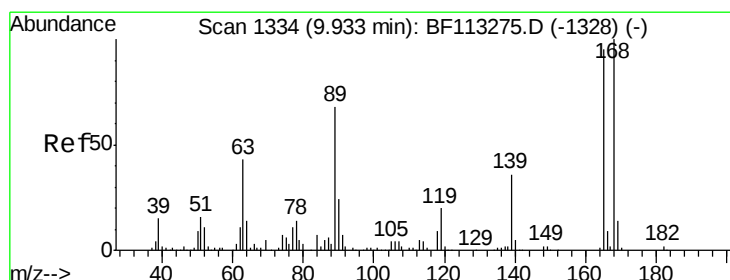
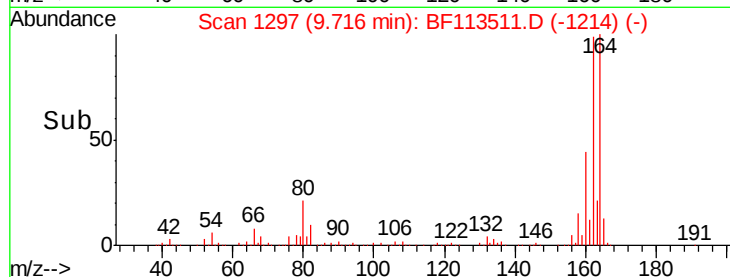
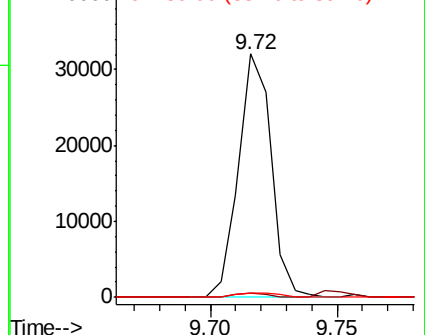
89 1.7 43.1 64.7#



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



#57

2,4-Dinitrotoluene

Concen: 6.010 ng

RT: 9.72 min Scan# 1297

Delta R.T. -0.22 min

Lab File: BF113511.D

Acq: 2 Apr 2019 17:50

Tgt Ion:165 Resp: 28835

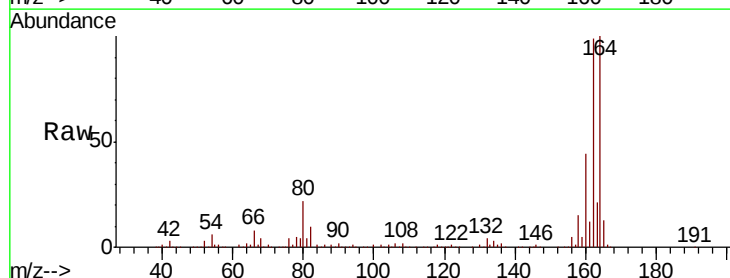
Ion Ratio Lower Upper

165 100

63 1.8 37.5 56.3#

89 1.7 57.4 86.2#

182 0.0 2.0 3.0#

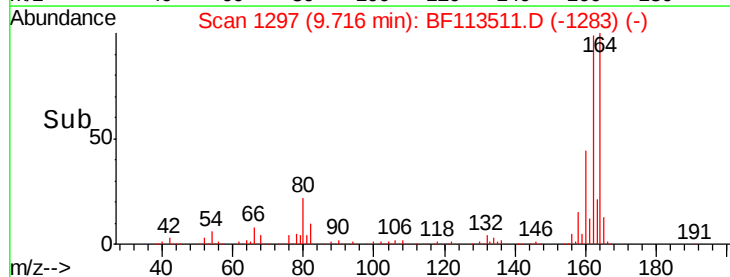
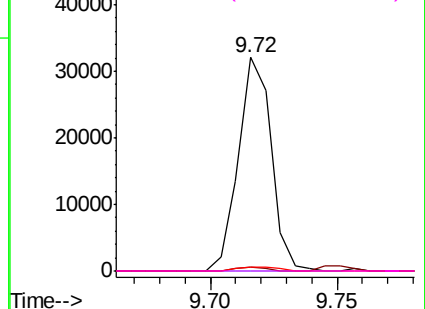


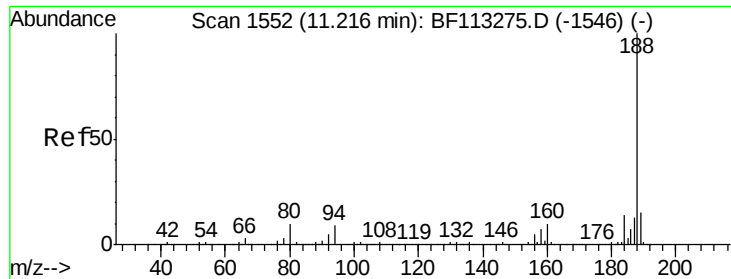
Abundance Ion 165.00 (164.70 to 165.70): E

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

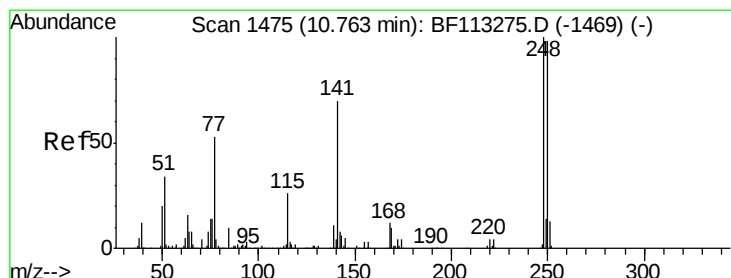
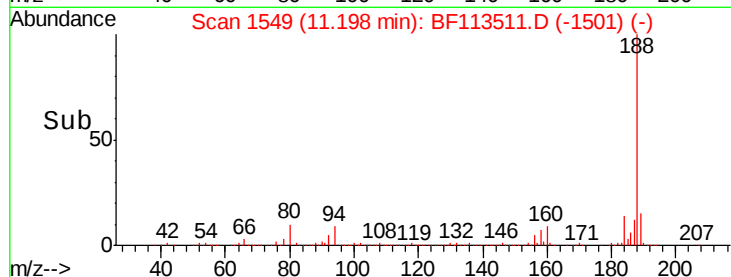
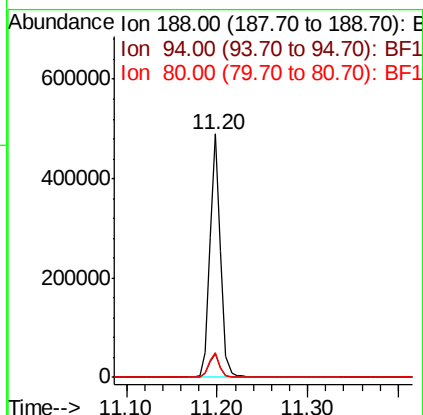
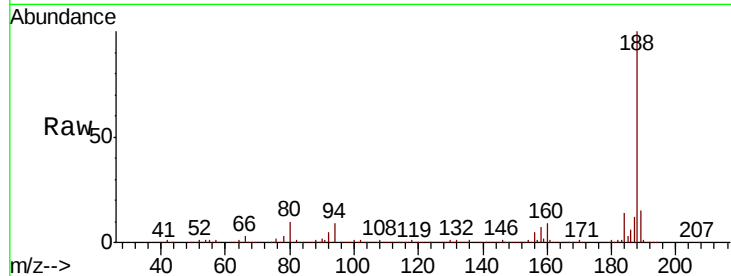




#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.20 min Scan# 1549
 Delta R.T. -0.02 min
 Lab File: BF113511.D
 Acq: 2 Apr 2019 17:50

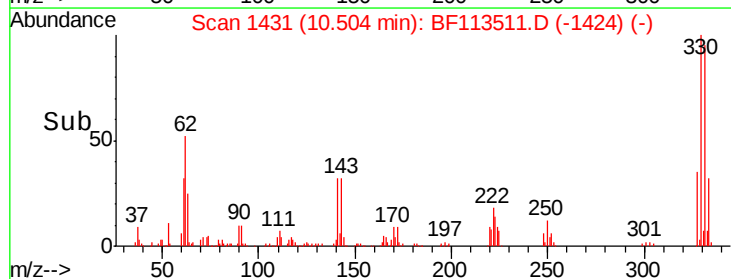
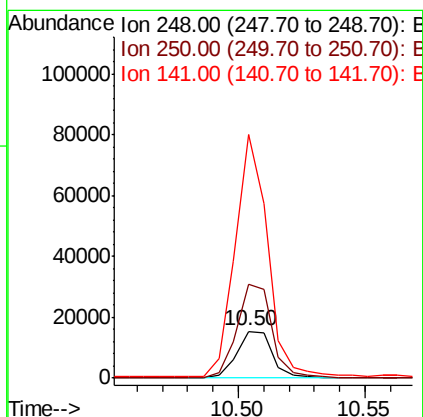
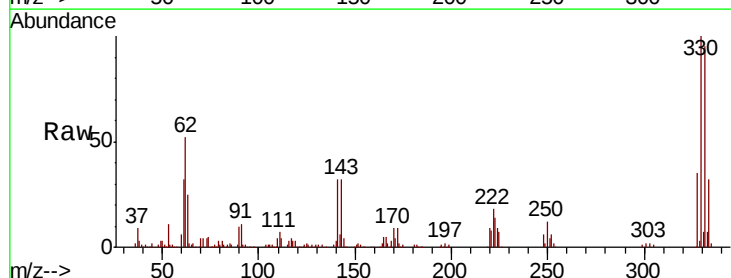
Instrument :
 BNA_F
 ClientSampleId :
 VN-SP-1

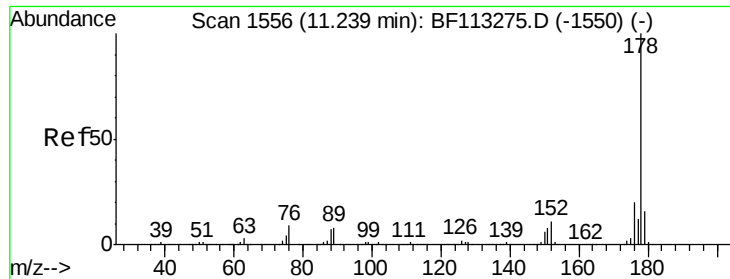
Tgt Ion:188 Resp: 406325
 Ion Ratio Lower Upper
 188 100
 94 9.4 7.0 10.6
 80 10.1 7.7 11.5



#67
 4-Bromophenyl-phenylether
 Concen: 3.369 ng
 RT: 10.50 min Scan# 1431
 Delta R.T. -0.26 min
 Lab File: BF113511.D
 Acq: 2 Apr 2019 17:50

Tgt Ion:248 Resp: 14918
 Ion Ratio Lower Upper
 248 100
 250 198.3 78.3 117.5#
 141 516.6 56.2 84.4#





#71

Phenanthrene

Concen: 7.884 ng

RT: 11.22 min Scan# 1553

Delta R.T. -0.02 min

Lab File: BF113511.D

Acq: 2 Apr 2019 17:50

Instrument :

BNA_F

ClientSampleId :

VN-SP-1

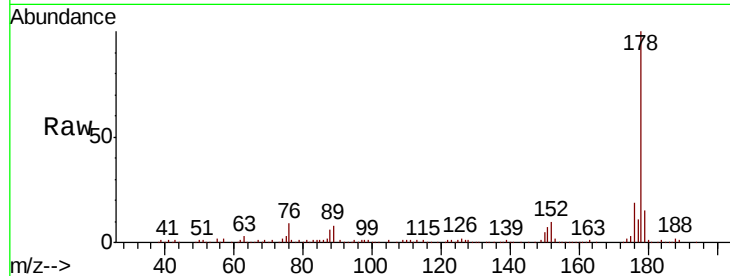
Tgt Ion:178 Resp: 159092

Ion Ratio Lower Upper

178 100

176 18.7 16.2 24.2

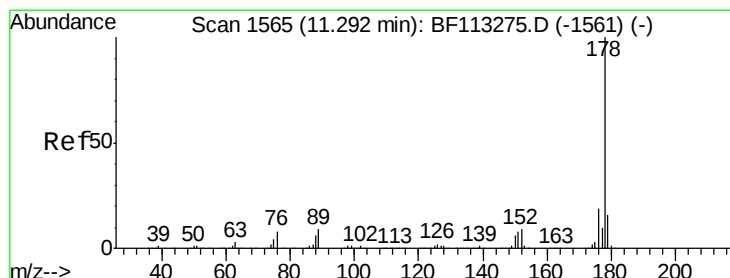
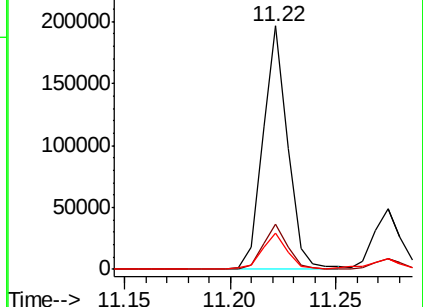
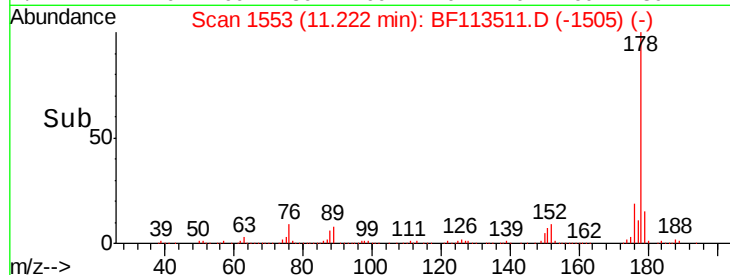
179 15.2 12.7 19.1



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: 2.271 ng

RT: 11.27 min Scan# 1562

Delta R.T. -0.02 min

Lab File: BF113511.D

Acq: 2 Apr 2019 17:50

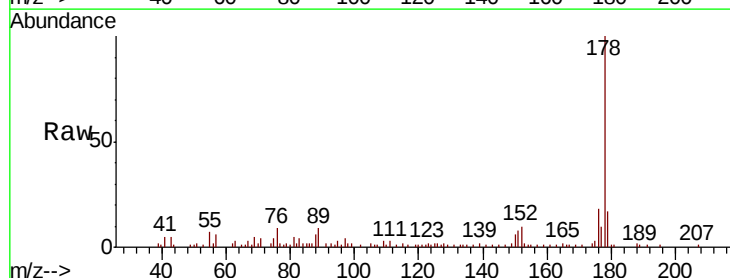
Tgt Ion:178 Resp: 46545

Ion Ratio Lower Upper

178 100

176 18.0 15.4 23.2

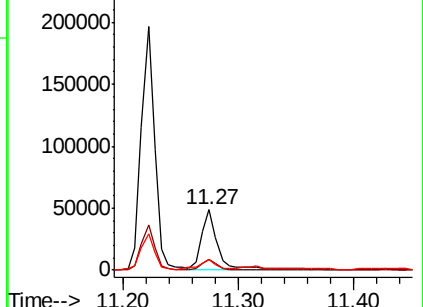
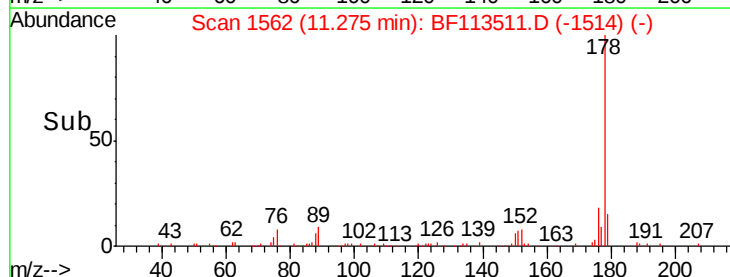
179 16.7 12.8 19.2

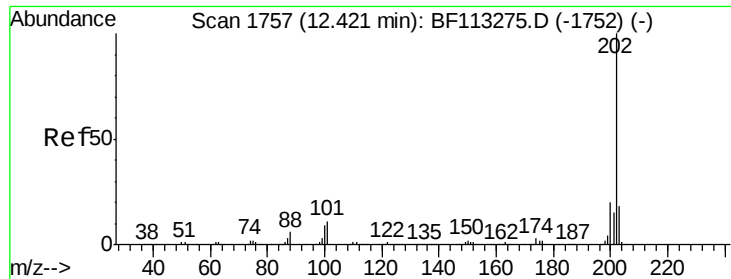


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 18.880 ng

RT: 12.41 min Scan# 1755

Delta R.T. -0.01 min

Lab File: BF113511.D

Acq: 2 Apr 2019 17:50

Instrument :

BNA_F

ClientSampleId :

VN-SP-1

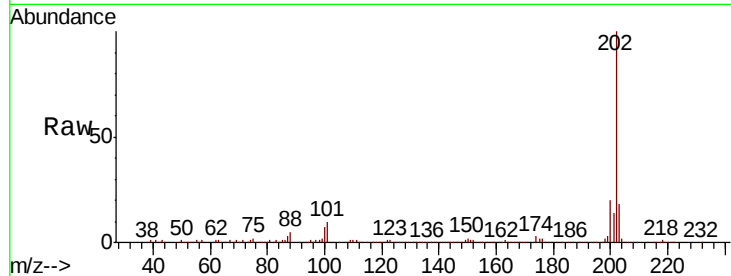
Tgt Ion:202 Resp: 430665

Ion Ratio Lower Upper

202 100

101 10.4 0.0 31.4

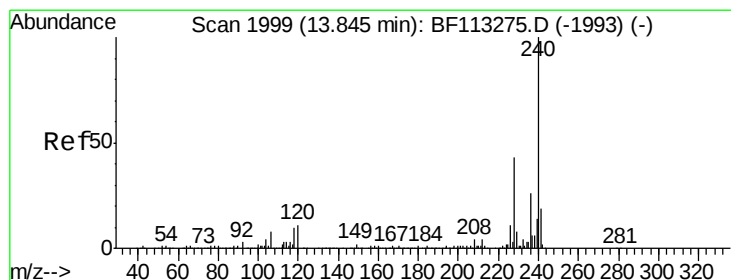
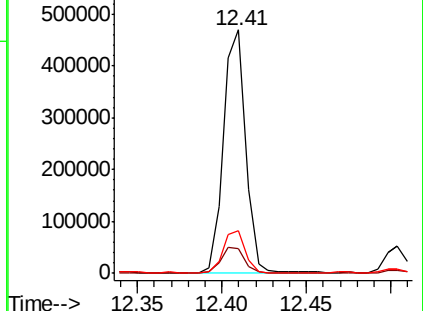
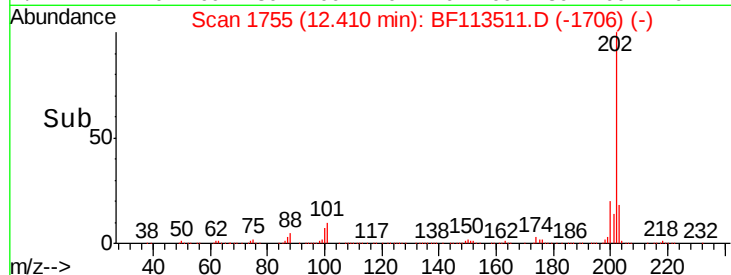
203 17.7 0.0 38.0



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# 1996

Delta R.T. -0.02 min

Lab File: BF113511.D

Acq: 2 Apr 2019 17:50

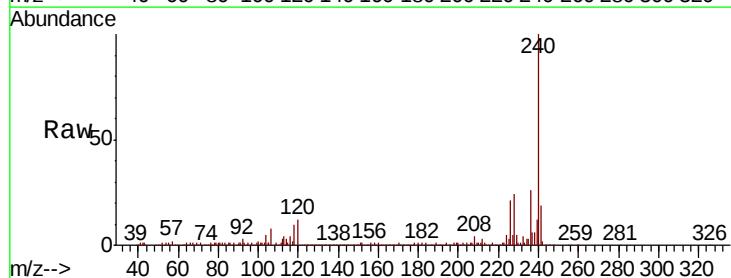
Tgt Ion:240 Resp: 295368

Ion Ratio Lower Upper

240 100

120 12.1 8.8 13.2

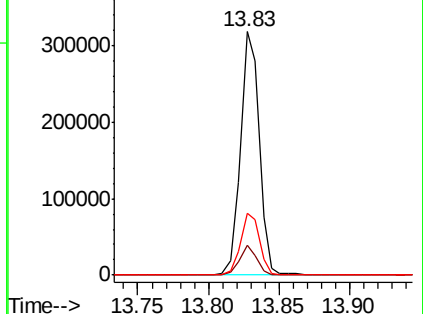
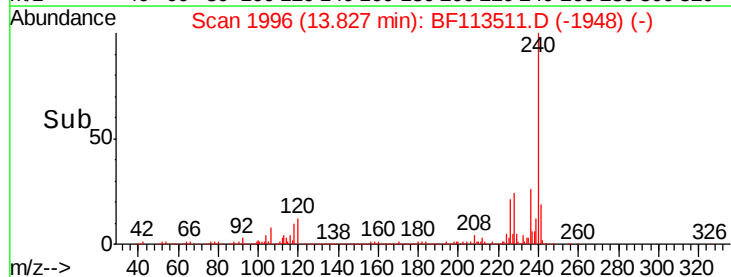
236 25.6 20.9 31.3

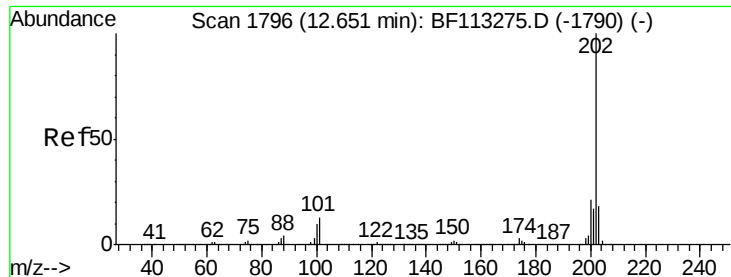


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pyrene

Concen: 29.639 ng

RT: 12.63 min Scan# 1793

Delta R.T. -0.02 min

Lab File: BF113511.D

Acq: 2 Apr 2019 17:50

Instrument :

BNA_F

ClientSampleId :

VN-SP-1

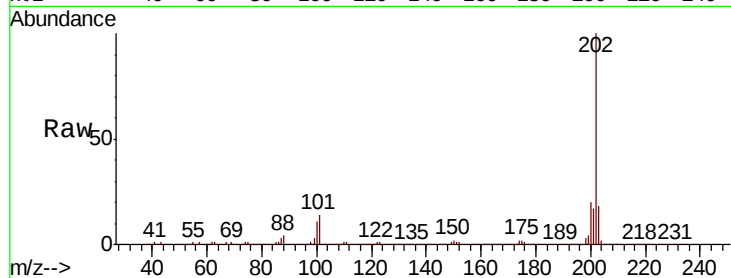
Tgt Ion:202 Resp: 606650

Ion Ratio Lower Upper

202 100

200 20.4 16.8 25.2

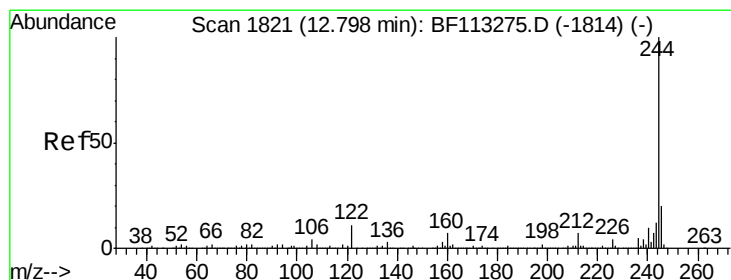
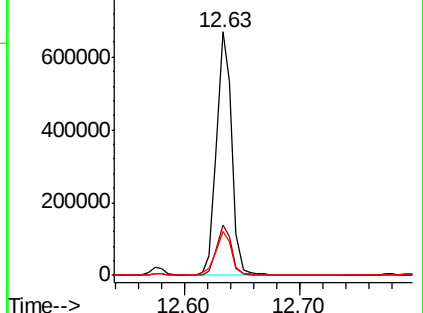
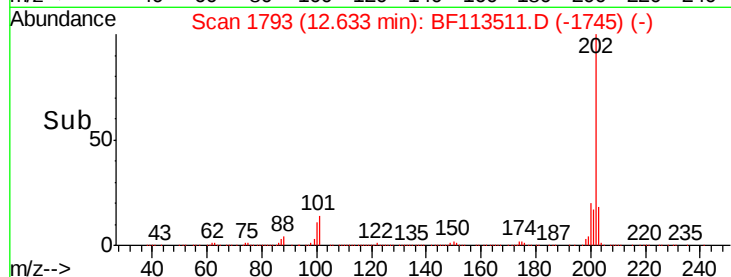
203 17.9 14.4 21.6



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: 67.545 ng

RT: 12.78 min Scan# 1818

Delta R.T. -0.02 min

Lab File: BF113511.D

Acq: 2 Apr 2019 17:50

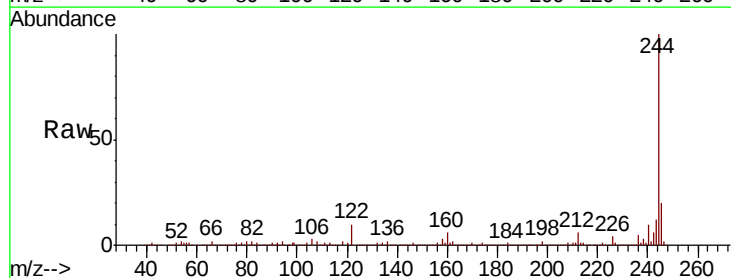
Tgt Ion:244 Resp: 905131

Ion Ratio Lower Upper

244 100

212 6.3 5.5 8.3

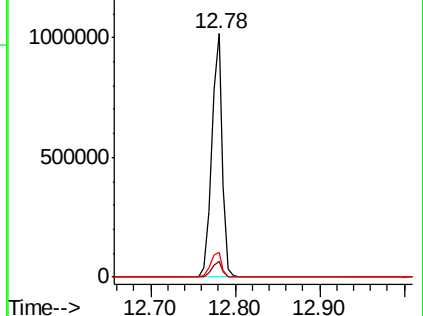
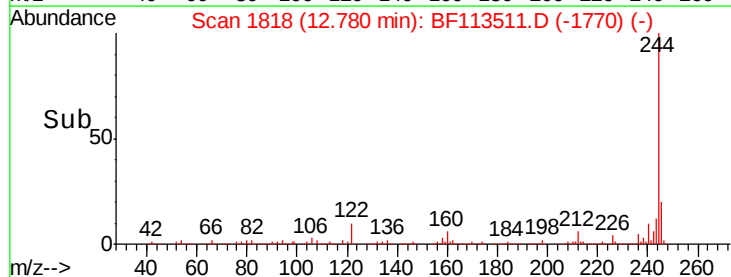
122 10.3 8.6 13.0

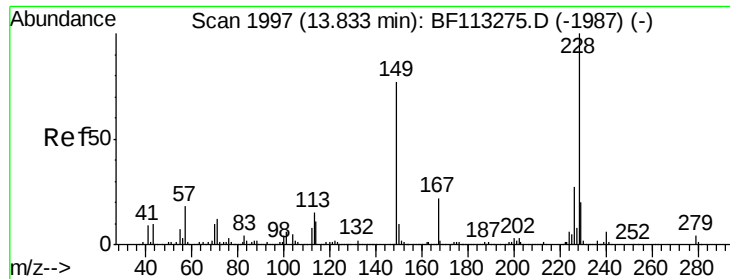


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

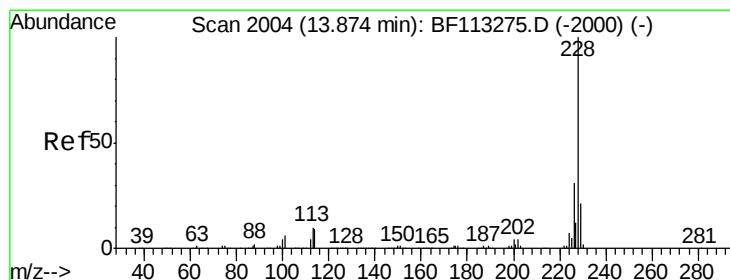
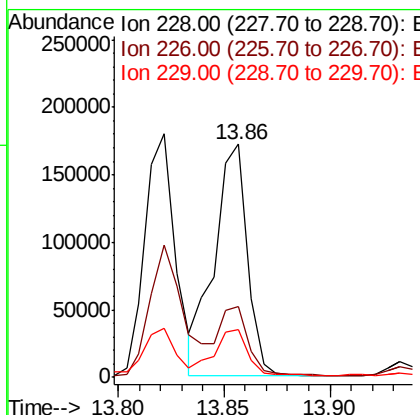
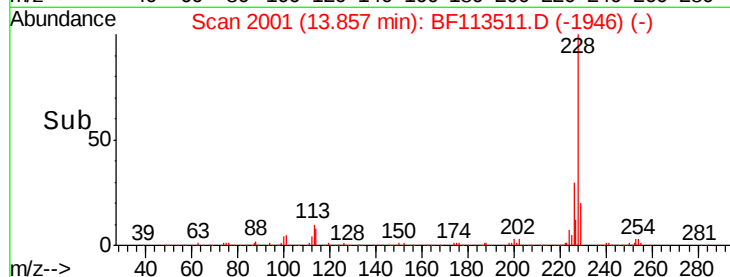
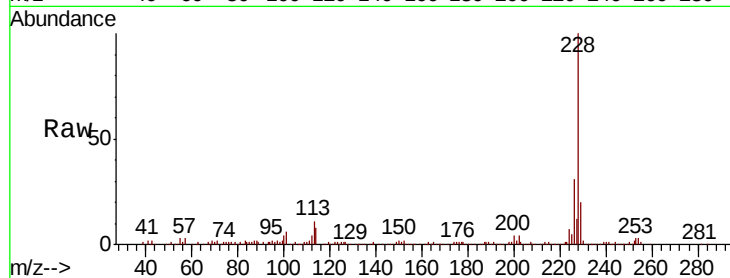




#81
Benzo(a)anthracene
Concen: 11.138 ng
RT: 13.86 min Scan# 2001
Delta R.T. 0.02 min
Lab File: BF113511.D
Acq: 2 Apr 2019 17:50

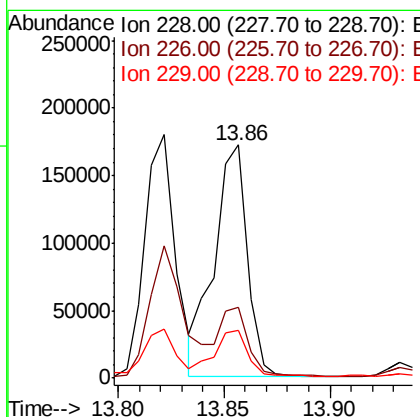
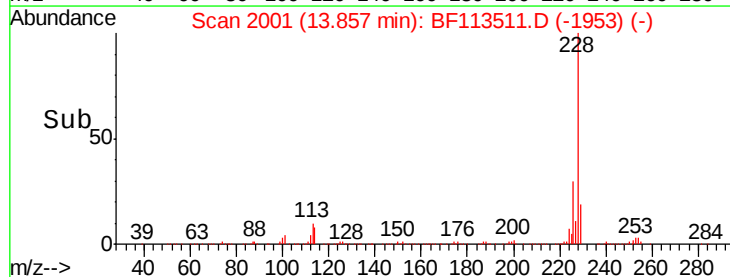
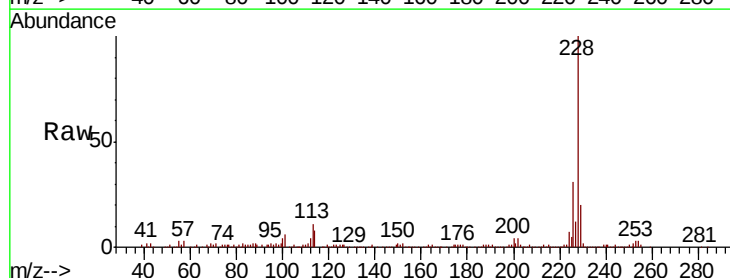
Instrument :
BNA_F
ClientSampled :
VN-SP-1

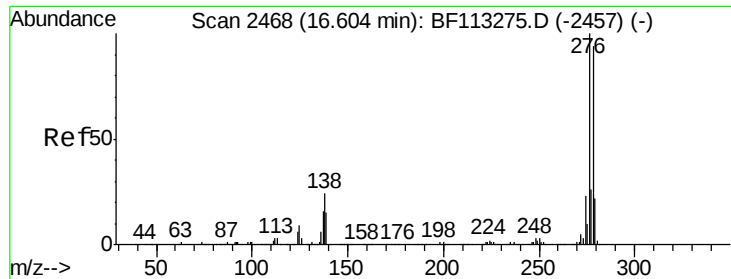
Tgt Ion:228 Resp: 188313
Ion Ratio Lower Upper
228 100
226 30.5 21.8 32.8
229 20.4 16.2 24.4



#83
Chrysene
Concen: 10.965 ng
RT: 13.86 min Scan# 2001
Delta R.T. -0.02 min
Lab File: BF113511.D
Acq: 2 Apr 2019 17:50

Tgt Ion:228 Resp: 188313
Ion Ratio Lower Upper
228 100
226 30.5 24.3 36.5
229 20.4 16.3 24.5

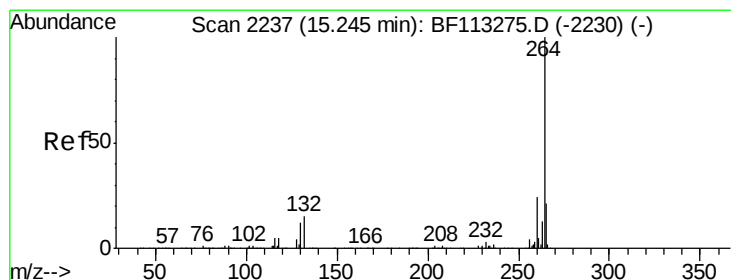
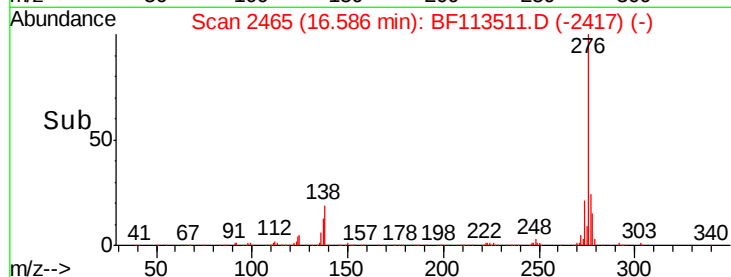
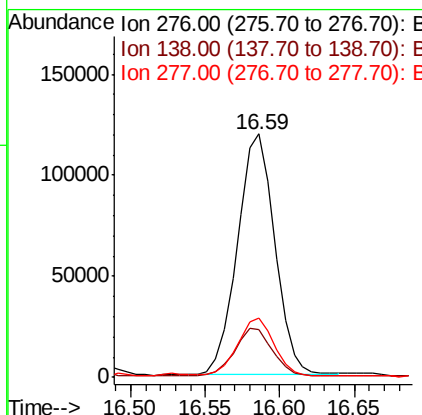
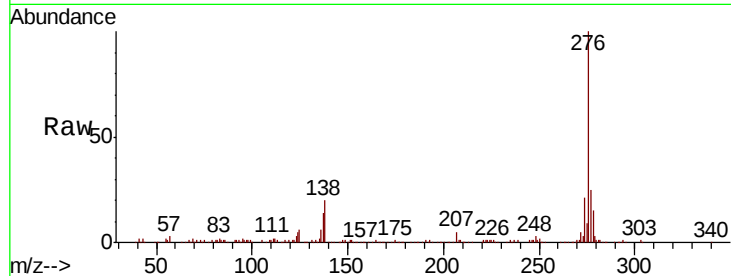




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 14.077 ng
 RT: 16.59 min Scan# 2465
 Delta R.T. -0.02 min
 Lab File: BF113511.D
 Acq: 2 Apr 2019 17:50

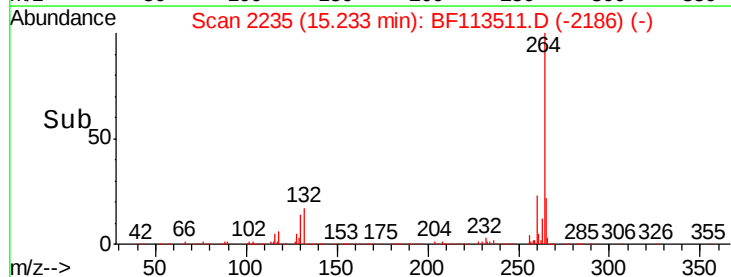
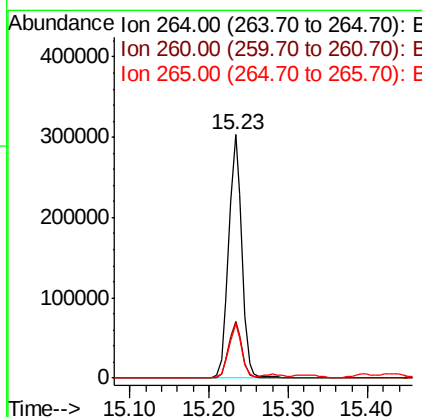
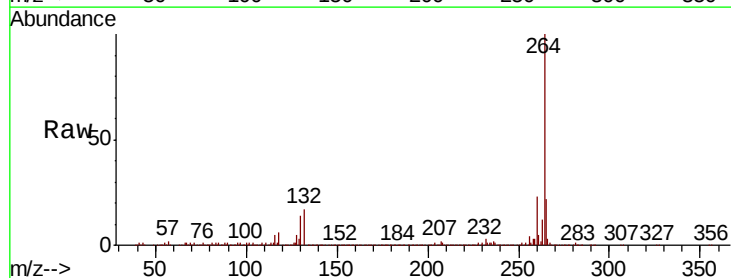
Instrument :
 BNA_F
 ClientSampleId :
 VN-SP-1

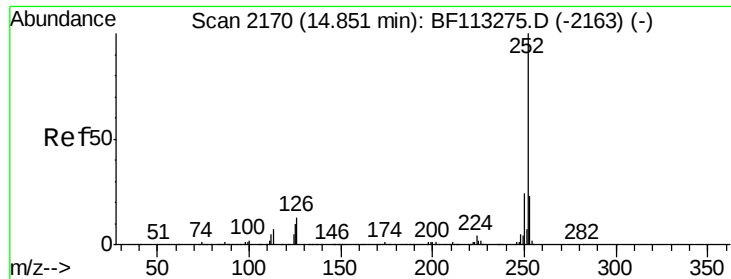
Tgt Ion: 276 Resp: 207478
 Ion Ratio Lower Upper
 276 100
 138 19.8 18.1 27.1
 277 23.6 20.2 30.4



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.23 min Scan# 2235
 Delta R.T. -0.01 min
 Lab File: BF113511.D
 Acq: 2 Apr 2019 17:50

Tgt Ion: 264 Resp: 351044
 Ion Ratio Lower Upper
 264 100
 260 23.3 19.1 28.7
 265 22.1 17.1 25.7

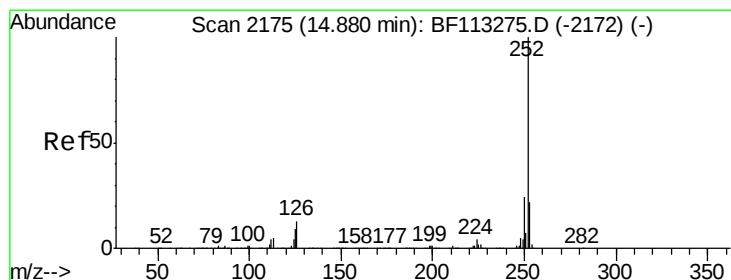
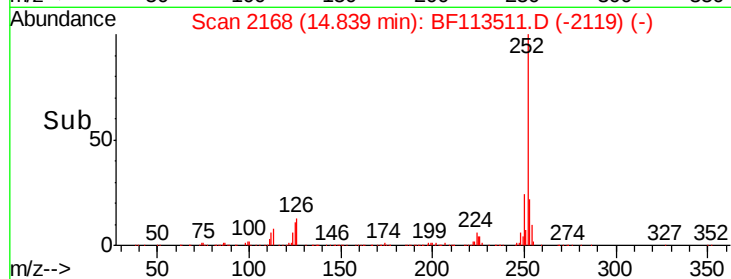
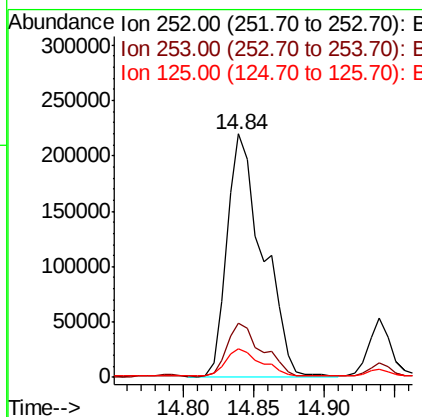
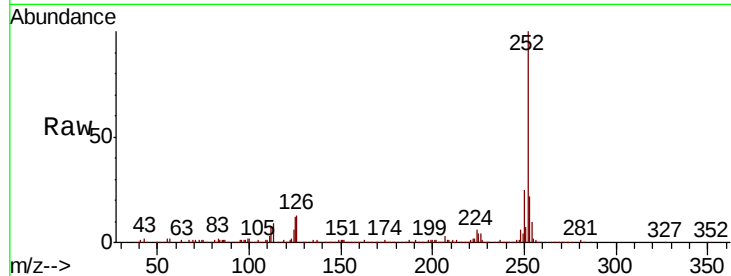




#88
Benzo(b)fluoranthene
Concen: 17.755 ng
RT: 14.84 min Scan# 2168
Delta R.T. -0.01 min
Lab File: BF113511.D
Acq: 2 Apr 2019 17:50

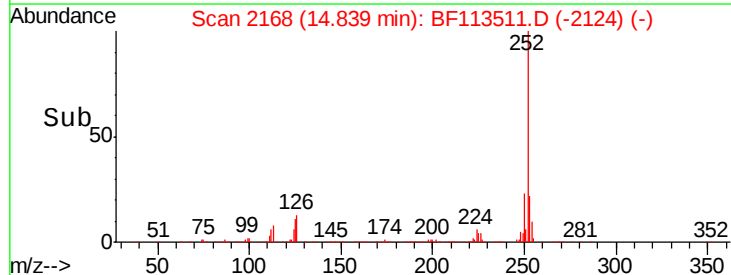
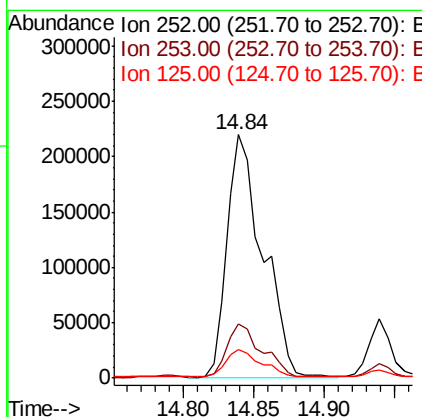
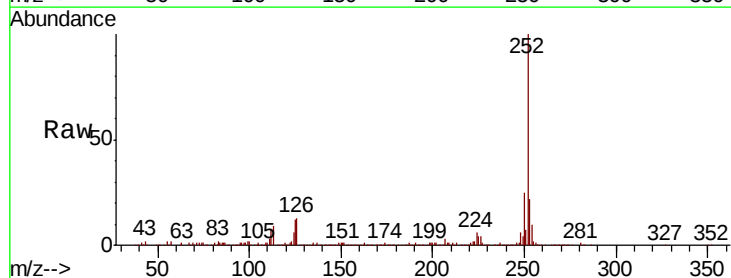
Instrument :
BNA_F
ClientSampleId :
VN-SP-1

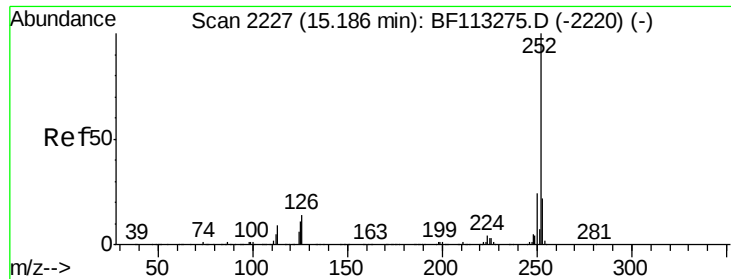
Tgt Ion:252 Resp: 387169
Ion Ratio Lower Upper
252 100
253 22.1 18.0 27.0
125 11.7 7.6 11.4#



#89
Benzo(k)fluoranthene
Concen: 20.217 ng
RT: 14.84 min Scan# 2168
Delta R.T. -0.04 min
Lab File: BF113511.D
Acq: 2 Apr 2019 17:50

Tgt Ion:252 Resp: 387169
Ion Ratio Lower Upper
252 100
253 22.1 17.7 26.5
125 11.7 7.3 10.9#





#90

Benzo(a)pyrene

Concen: 12.246 ng

RT: 15.17 min Scan# 2225

Delta R.T. -0.01 min

Lab File: BF113511.D

Acq: 2 Apr 2019 17:50

Instrument :

BNA_F

ClientSampled :

VN-SP-1

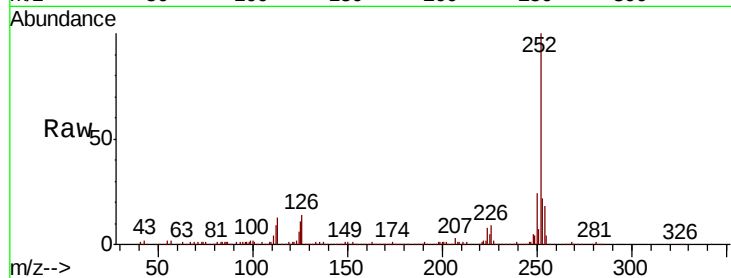
Tgt Ion:252 Resp: 236747

Ion Ratio Lower Upper

252 100

253 22.2 17.9 26.9

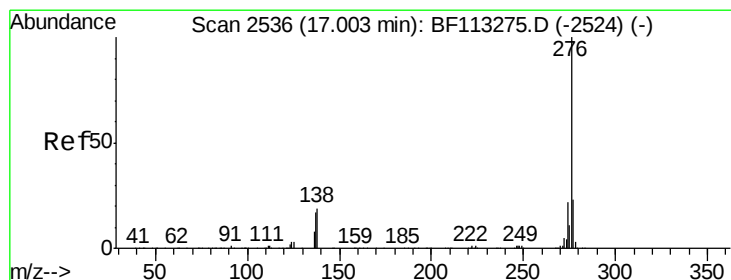
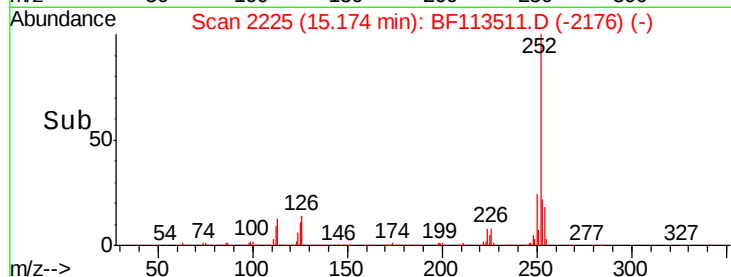
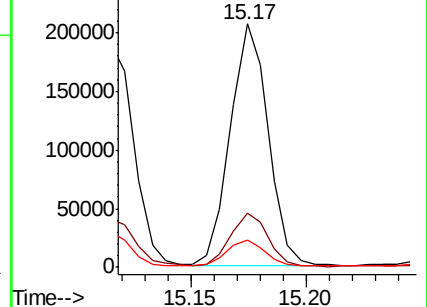
125 11.4 8.8 13.2



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: 16.105 ng

RT: 16.99 min Scan# 2534

Delta R.T. -0.01 min

Lab File: BF113511.D

Acq: 2 Apr 2019 17:50

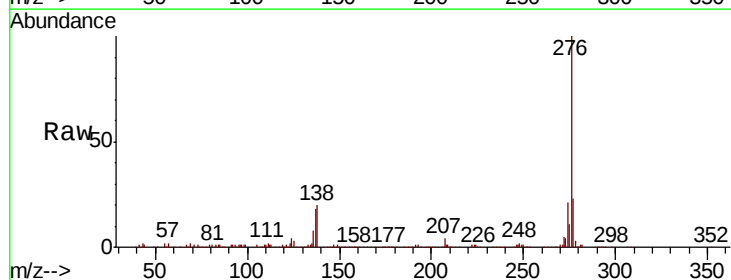
Tgt Ion:276 Resp: 271448

Ion Ratio Lower Upper

276 100

277 23.2 18.8 28.2

138 19.8 15.6 23.4



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

