

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080619\
 Data File : BF116008.D
 Acq On : 6 Aug 2019 13:02
 Operator : HP/JU
 Sample : K4136-01
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 07 01:12:38 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 31 15:31:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.84	152	123975	20.00	ng	-0.01
21) Naphthalene-d8	8.12	136	484488	20.00	ng	-0.01
39) Acenaphthene-d10	9.87	164	260160	20.00	ng	-0.02
64) Phenanthrene-d10	11.36	188	457476	20.00	ng	-0.02
76) Chrysene-d12	14.00	240	326566	20.00	ng	-0.02
87) Perylene-d12	15.46	264	316759	20.00	ng	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.46	112	649305	87.68	ng	0.00
7) Phenol-d6	6.47	99	878853	94.06	ng	-0.01
23) Nitrobenzene-d5	7.40	82	546097	65.06	ng	-0.01
42) 2,4,6-Tribromophenol	10.66	330	222743	88.31	ng	-0.02
45) 2-Fluorobiphenyl	9.20	172	942562	67.86	ng	-0.02
79) Terphenyl-d14	12.95	244	1019686	65.80	ng	-0.02

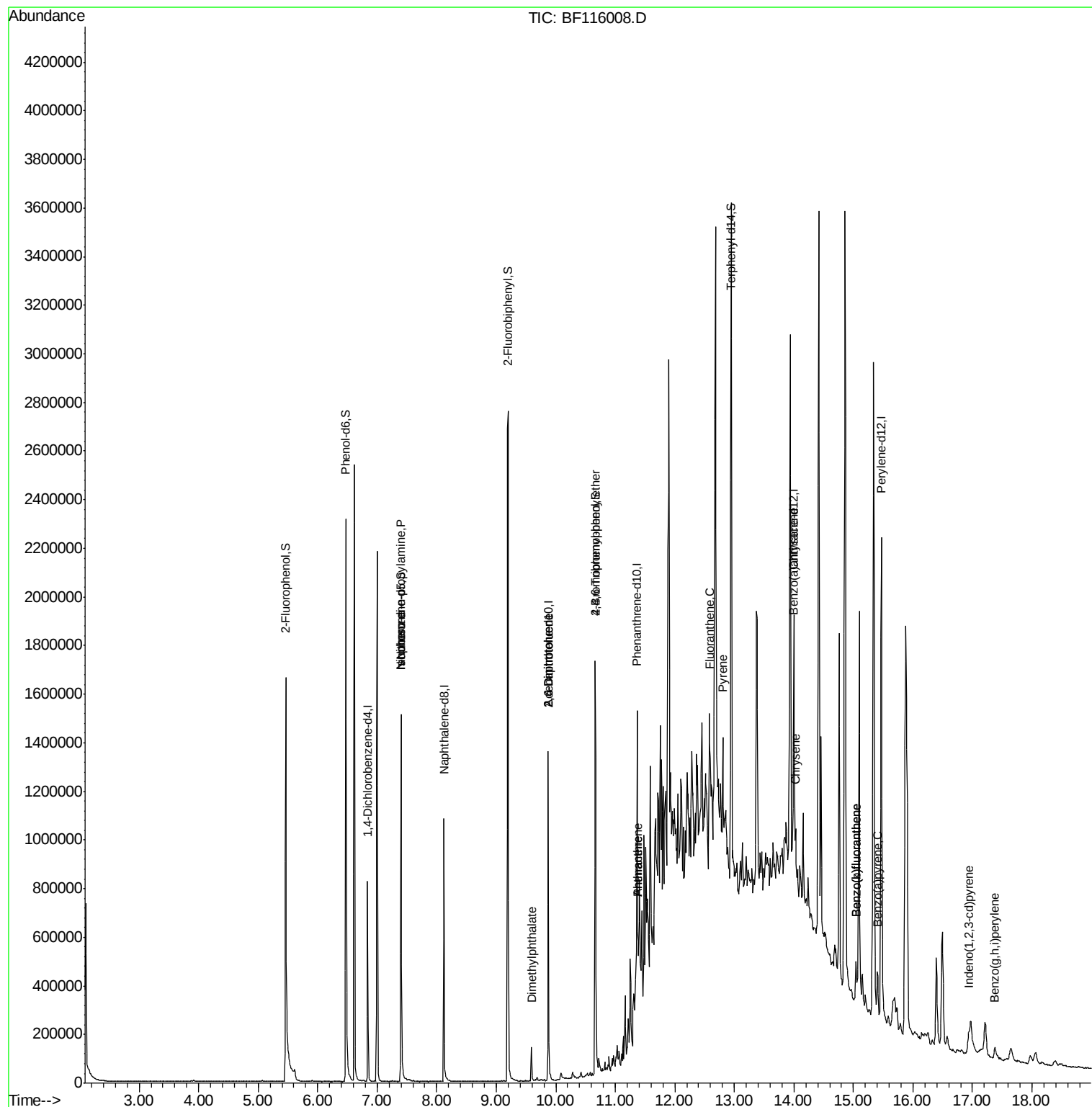
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.40	70	72289	12.485	ng	# 78
25) Isophorone	7.40	82	546091	34.026	ng	# 66
50) Dimethylphthalate	9.59	163	67102	3.788	ng	98
51) 2,6-Dinitrotoluene	9.87	165	32946	8.558	ng	# 28
57) 2,4-Dinitrotoluene	9.87	165	32946	6.428	ng	# 25
67) 4-Bromophenyl-phenylether	10.66	248	13909	2.840	ng	# 1
71) Phenanthrene	11.39	178	75543	3.230	ng	99
72) Anthracene	11.39	178	75543	3.192	ng	98
75) Fluoranthene	12.58	202	190584	7.784	ng	81
78) Pyrene	12.81	202	166259	6.754	ng	# 84
81) Benzo(a)anthracene	13.99	228	90253	4.324	ng	96
83) Chrysene	14.03	228	75014	3.702	ng	95
86) Indeno(1,2,3-cd)pyrene	16.94	276	46202	2.715	ng	97
88) Benzo(b)fluoranthene	15.04	252	130353	7.117	ng	# 94
89) Benzo(k)fluoranthene	15.04	252	130353	7.307	ng	# 97
90) Benzo(a)pyrene	15.40	252	69838	4.266	ng	# 95
92) Benzo(a,h,i)perylene	17.37	276	46341	3.329	ng	96

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

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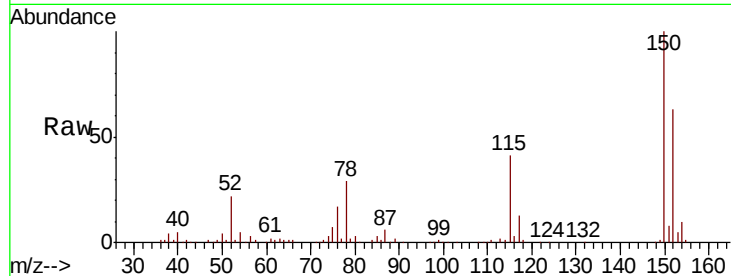


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.84 min Scan# 808
Delta R.T. -0.01 min
Lab File: BF116008.D
Acq: 6 Aug 2019 13:02

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.5	127.4	191.0
115	64.9	51.8	77.8

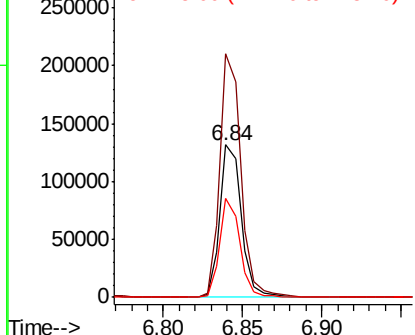
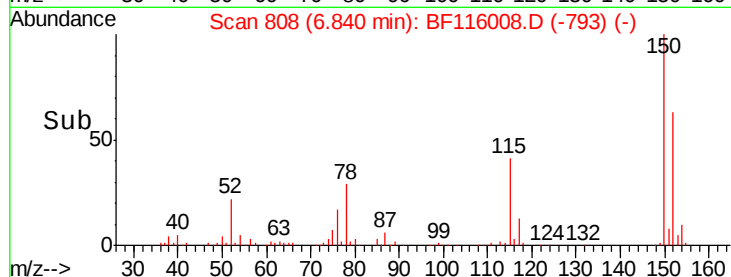


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

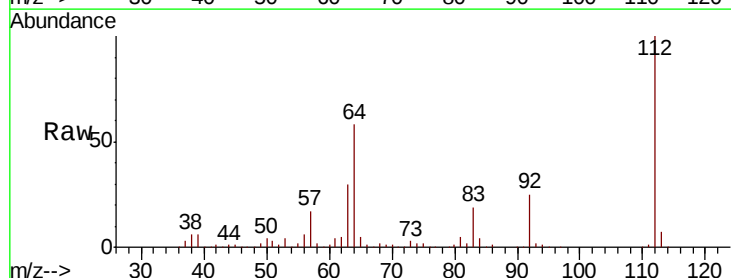
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 87.677 ng
RT: 5.46 min Scan# 574
Delta R.T. -0.01 min
Lab File: BF116008.D
Acq: 6 Aug 2019 13:02

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.5	46.8	70.2
63	30.3	24.2	36.2

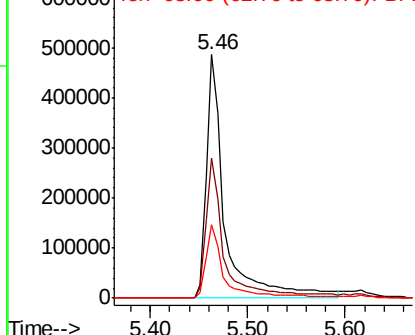
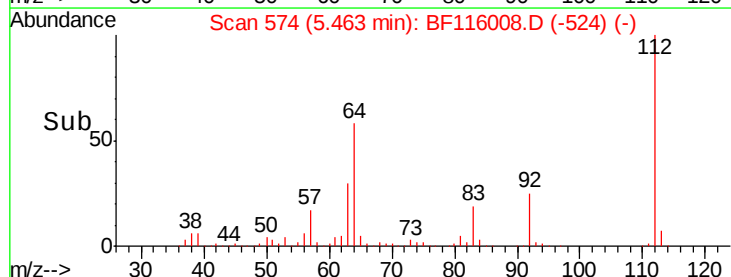


Abundance

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: 94.060 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF116008.D

Acq: 6 Aug 2019 13:02

Instrument :

BNA_F

ClientSampled :

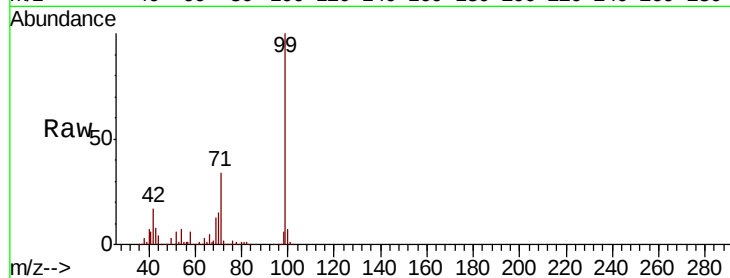
Tot Ion: 99 Resp: 878853

Ion Ratio Lower Upper

99 100

42 17.4 13.8 20.6

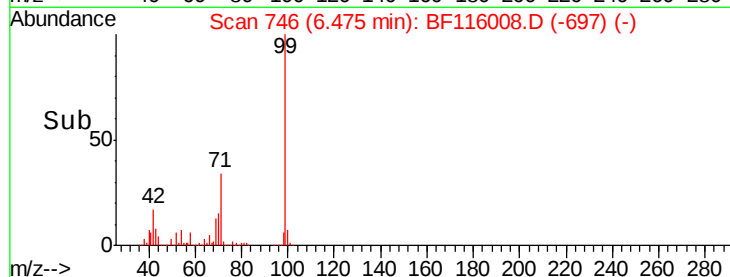
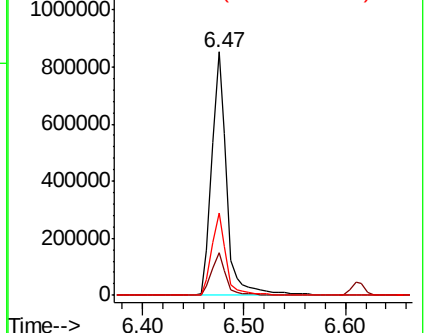
71 33.6 27.1 40.7



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: 12.485 ng

RT: 7.40 min Scan# 904

Delta R.T. 0.14 min

Lab File: BF116008.D

Acq: 6 Aug 2019 13:02

Tgt Ion: 70 Resp: 72289

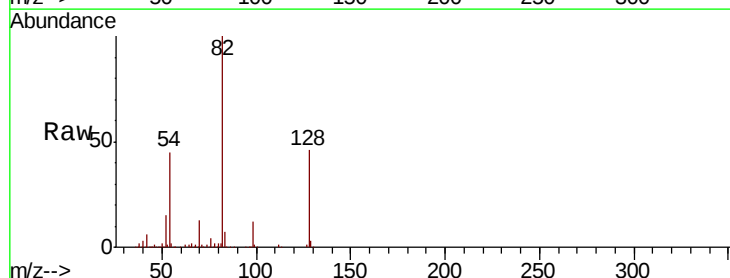
Ion Ratio Lower Upper

70 100

42 43.0 41.8 62.8

101 0.0 7.7 11.5#

130 2.3 17.8 26.6#

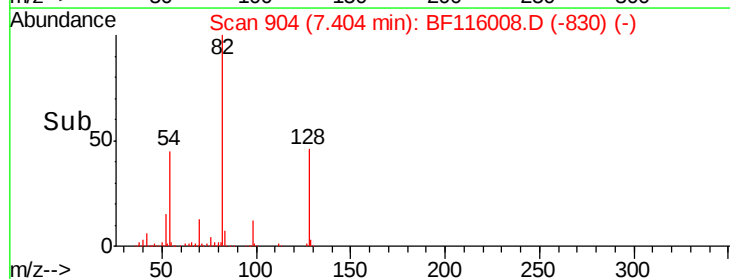
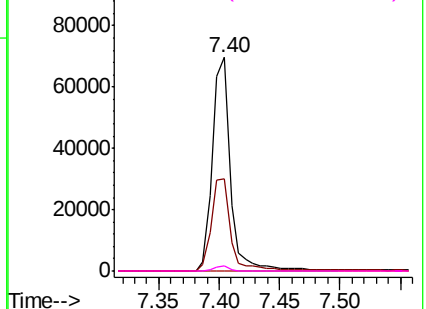


Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 8.12 min Scan# 1026

Delta R.T. -0.01 min

Lab File: BF116008.D

Acq: 6 Aug 2019 13:02

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 484488

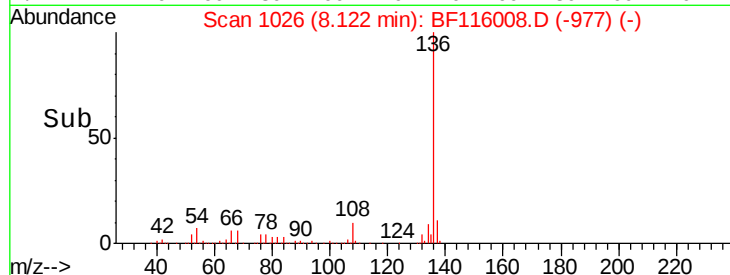
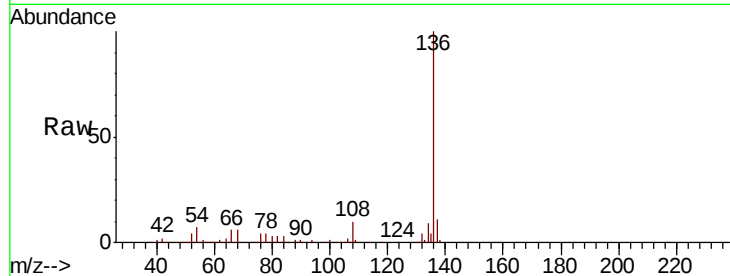
Ion Ratio Lower Upper

136 100

137 11.1 9.1 13.7

54 7.0 6.1 9.1

68 6.0 5.4 8.2

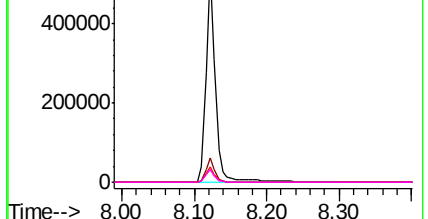


Abundance Ion 136.00 (135.70 to 136.70): E

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: 65.063 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.01 min

Lab File: BF116008.D

Acq: 6 Aug 2019 13:02

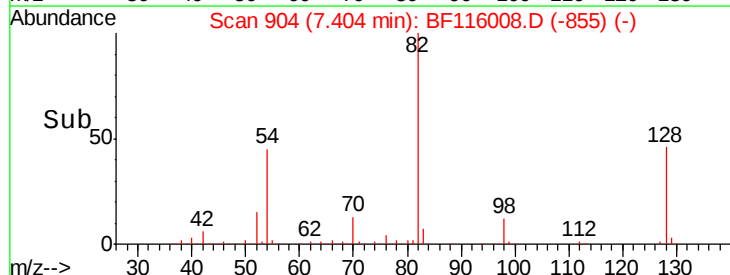
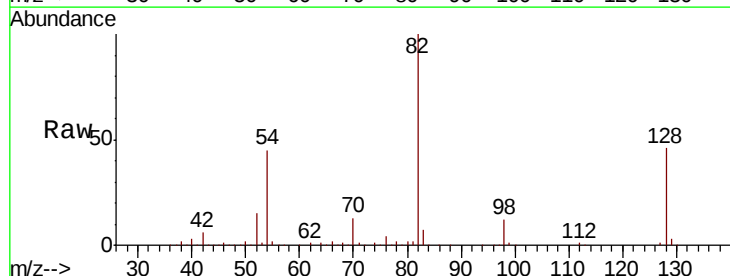
Tgt Ion: 82 Resp: 546097

Ion Ratio Lower Upper

82 100

128 46.2 36.6 55.0

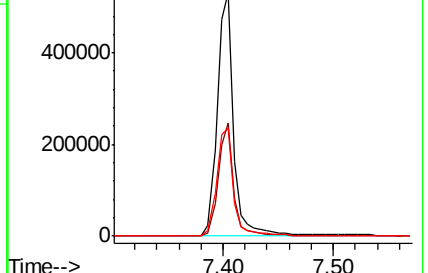
54 44.6 36.6 55.0



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: 34.026 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.27 min

Lab File: BF116008.D

Acq: 6 Aug 2019 13:02

Instrument :

BNA_F

ClientSampleId :

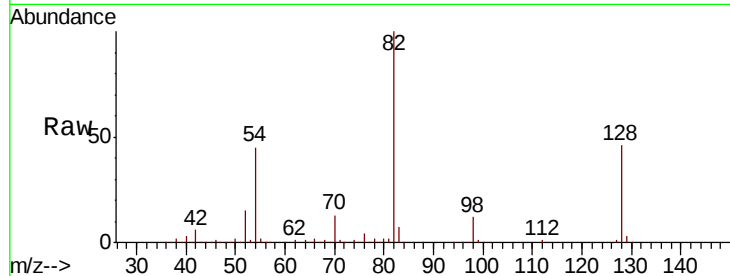
Tot Ion: 82 Resp: 546091

Ion Ratio Lower Upper

82 100

95 0.0 5.5 8.3#

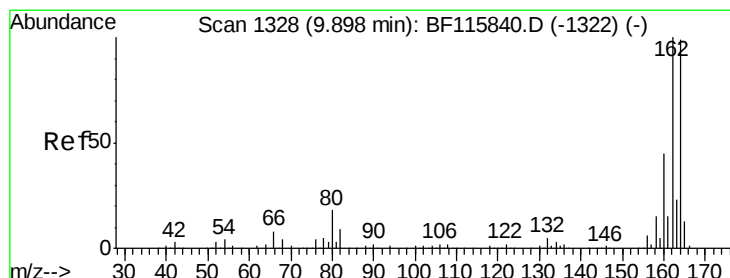
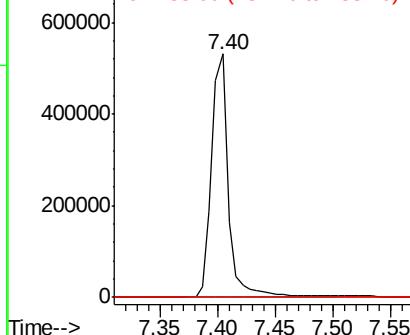
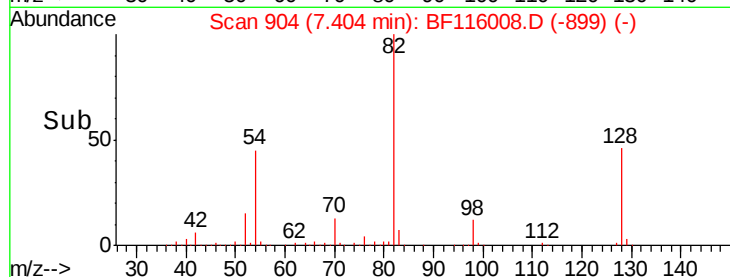
138 0.0 13.9 20.9#



Abundance Ion 82.00 (81.70 to 82.70): BF116008.D (-899) (-)

Ion 95.00 (94.70 to 95.70): BF116008.D (-899) (-)

Ion 138.00 (137.70 to 138.70): BF116008.D (-899) (-)



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.87 min Scan# 1324

Delta R.T. -0.02 min

Lab File: BF116008.D

Acq: 6 Aug 2019 13:02

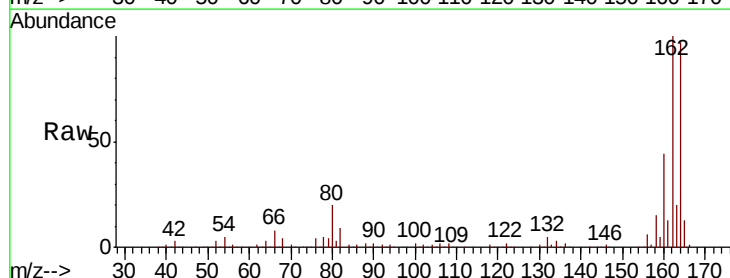
Tgt Ion: 164 Resp: 260160

Ion Ratio Lower Upper

164 100

162 103.0 80.8 121.2

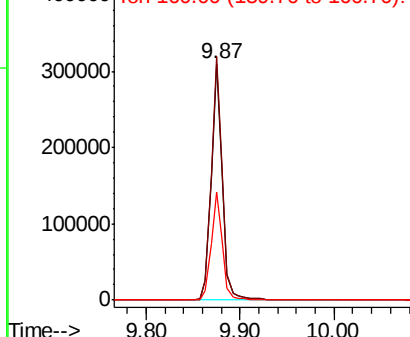
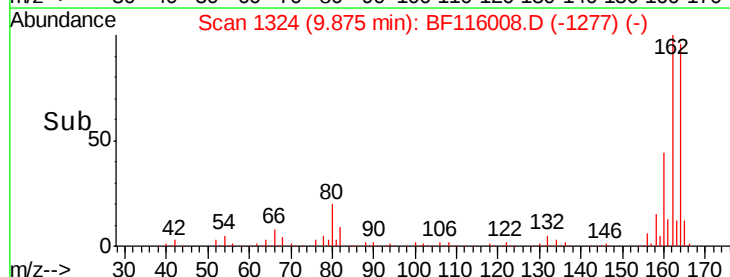
160 45.5 36.2 54.4

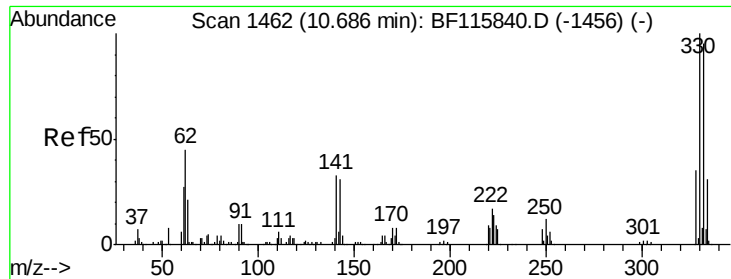


Abundance Ion 164.00 (163.70 to 164.70): BF116008.D (-1277) (-)

Ion 162.00 (161.70 to 162.70): BF116008.D (-1277) (-)

Ion 160.00 (159.70 to 160.70): BF116008.D (-1277) (-)

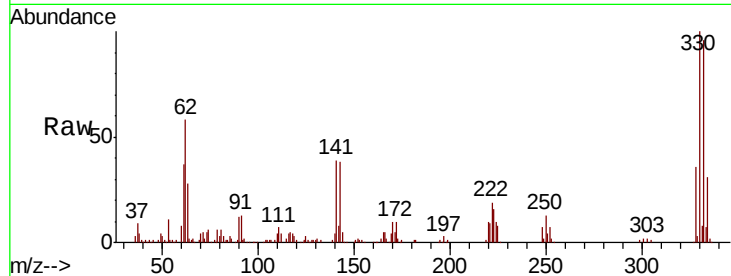




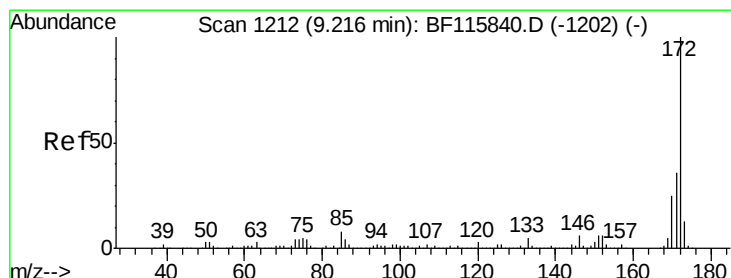
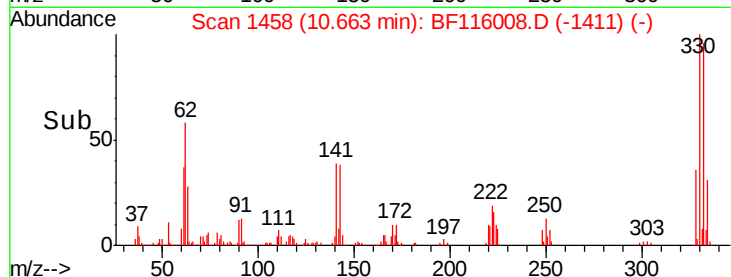
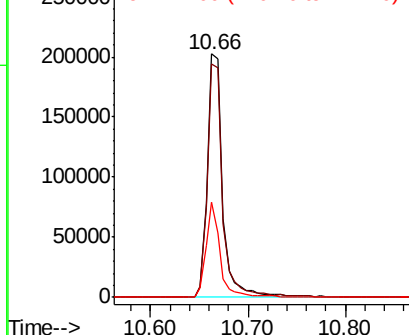
#42
 2,4,6-Tribromophenol
 Concen: 88.309 ng
 RT: 10.66 min Scan# 1458
 Delta R.T. -0.02 min
 Lab File: BF116008.D
 Acq: 6 Aug 2019 13:02

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:330 Resp: 222743
 Ion Ratio Lower Upper
 330 100
 332 96.7 77.7 116.5
 141 35.9 28.1 42.1

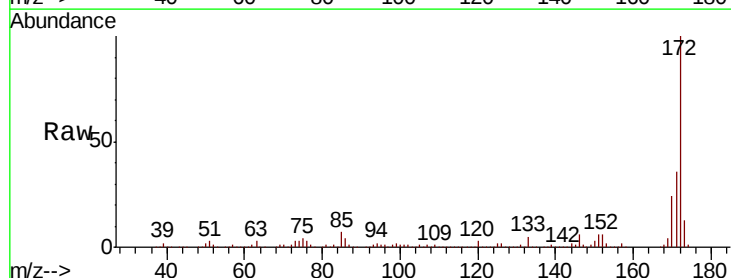


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

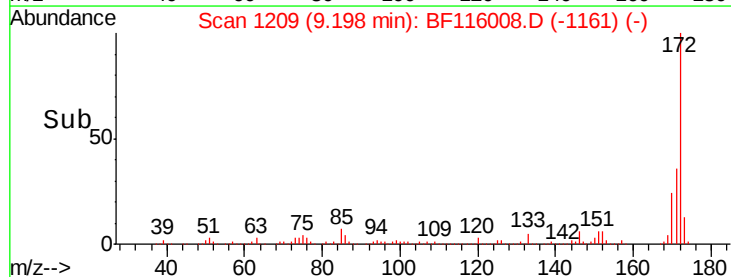
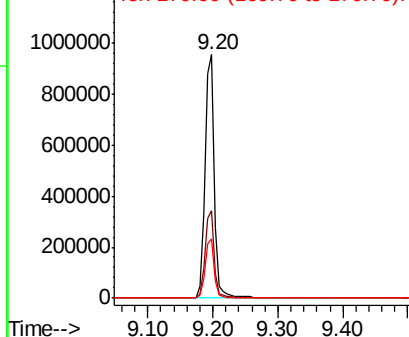


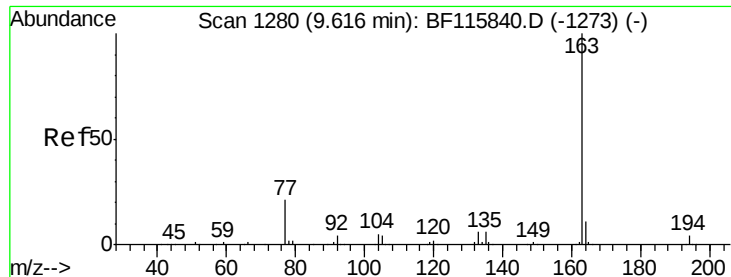
#45
 2-Fluorobiphenyl
 Concen: 67.862 ng
 RT: 9.20 min Scan# 1209
 Delta R.T. -0.02 min
 Lab File: BF116008.D
 Acq: 6 Aug 2019 13:02

Tgt Ion:172 Resp: 942562
 Ion Ratio Lower Upper
 172 100
 171 36.0 29.1 43.7
 170 24.2 20.1 30.1



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

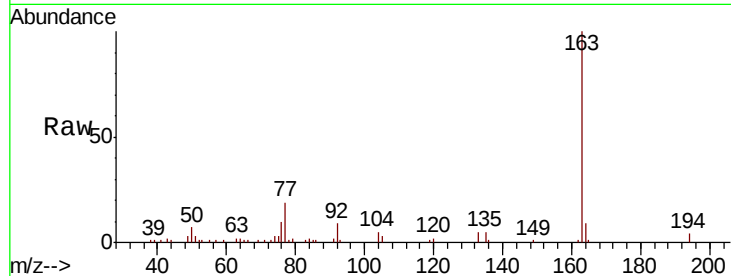




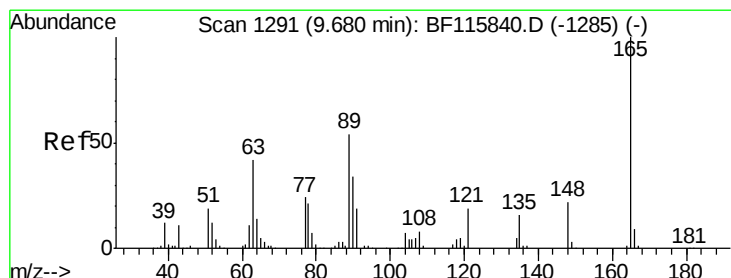
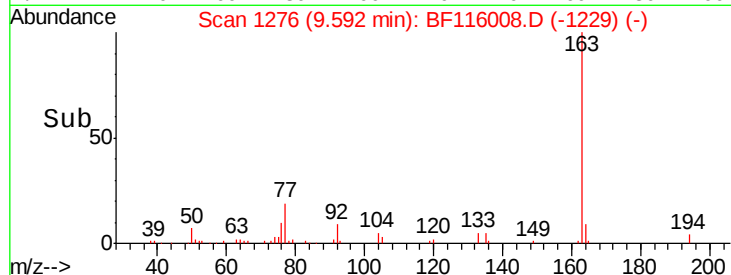
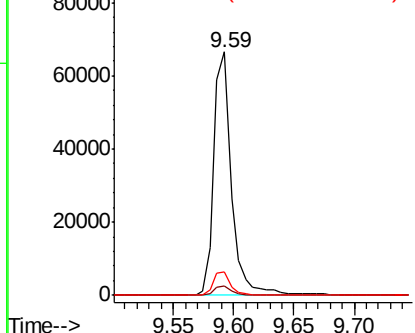
#50
Dimethylphthalate
Concen: 3.788 ng
RT: 9.59 min Scan# 1276
Delta R.T. -0.02 min
Lab File: BF116008.D
Acq: 6 Aug 2019 13:02

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
163	100		
194	3.6	3.0	4.6
164	9.4	8.4	12.6

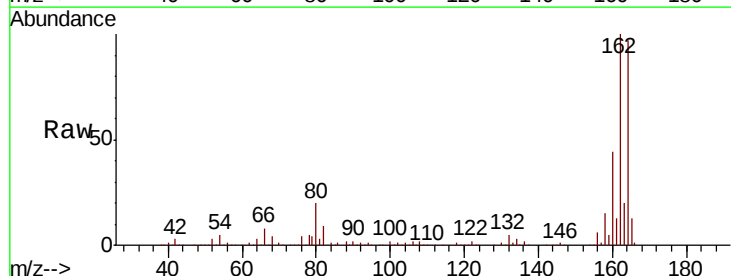


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

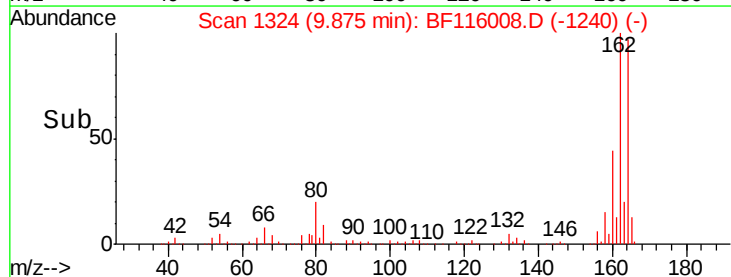
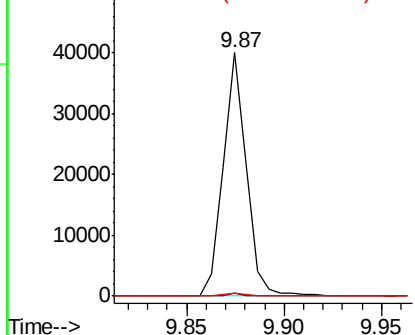


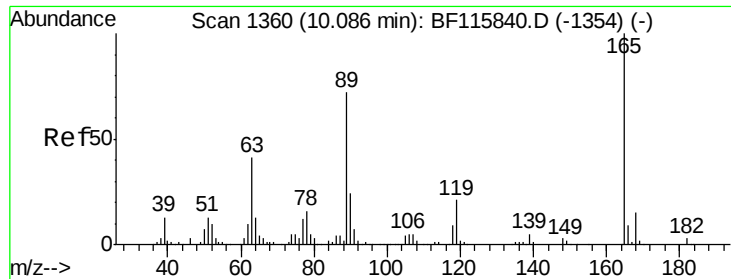
#51
2,6-Dinitrotoluene
Concen: 8.558 ng
RT: 9.87 min Scan# 1324
Delta R.T. 0.19 min
Lab File: BF116008.D
Acq: 6 Aug 2019 13:02

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.2	39.4	59.2#
89	1.4	43.0	64.6#



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

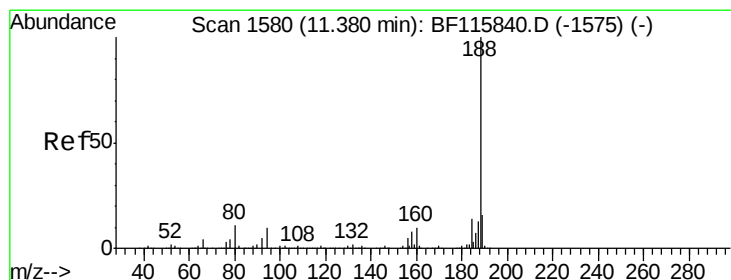
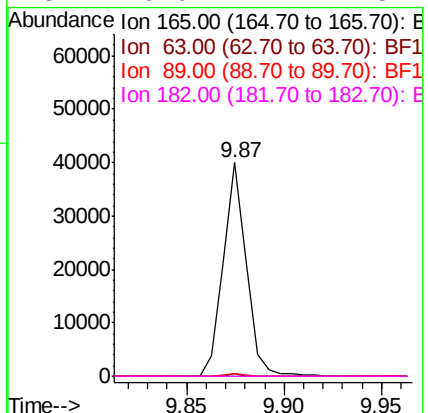
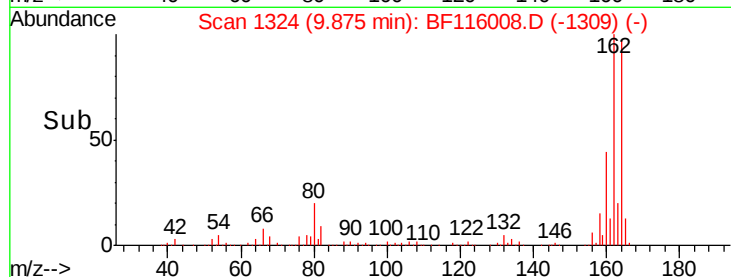
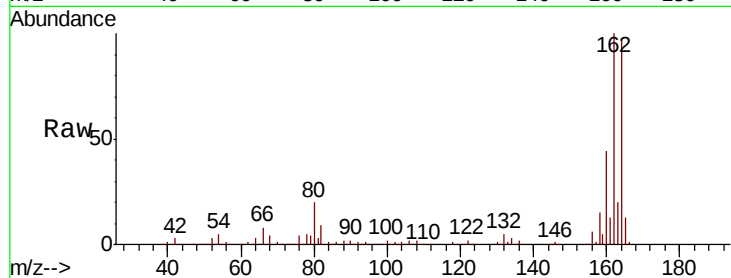




#57
 2,4-Dinitrotoluene
 Concen: 6.428 ng
 RT: 9.87 min Scan# 1324
 Delta R.T. -0.21 min
 Lab File: BF116008.D
 Acq: 6 Aug 2019 13:02

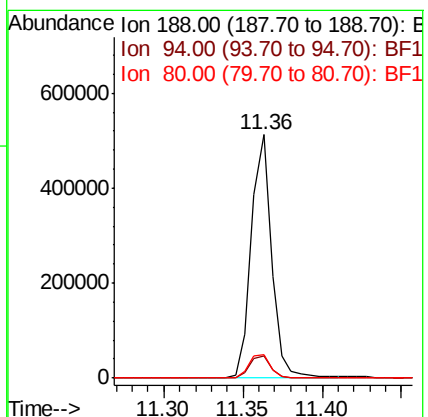
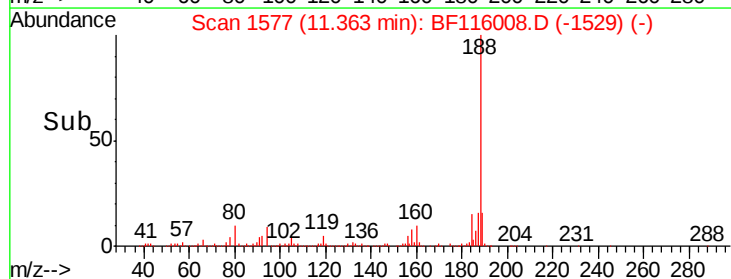
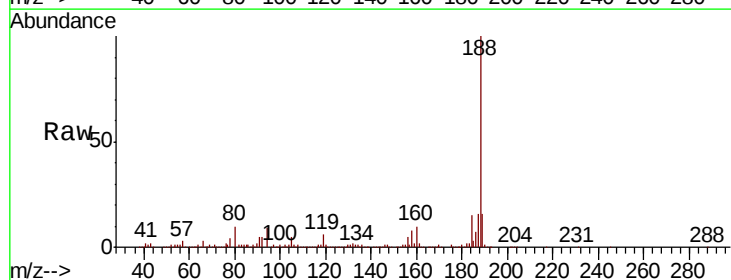
Instrument :
 BNA_F
 ClientSampleId :

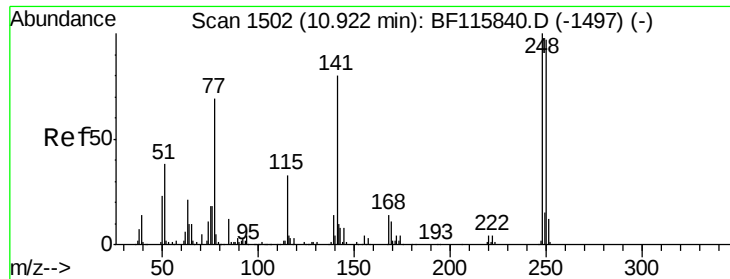
Tot Ion:165	Resp:	32946
Ion Ratio	Lower	Upper
165	100	
63	1.2	33.2 49.8#
89	1.4	57.3 85.9#
182	0.0	2.1 3.1#



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.36 min Scan# 1577
 Delta R.T. -0.02 min
 Lab File: BF116008.D
 Acq: 6 Aug 2019 13:02

Tgt Ion:188	Resp:	457476
Ion Ratio	Lower	Upper
188	100	
94	9.2	8.0 12.0
80	9.8	8.6 12.8





#67

4-Bromophenyl-phenylether

Concen: 2.840 ng

RT: 10.66 min Scan# 1458

Delta R.T. -0.26 min

Lab File: BF116008.D

Acq: 6 Aug 2019 13:02

Instrument :

BNA_F

ClientSampleId :

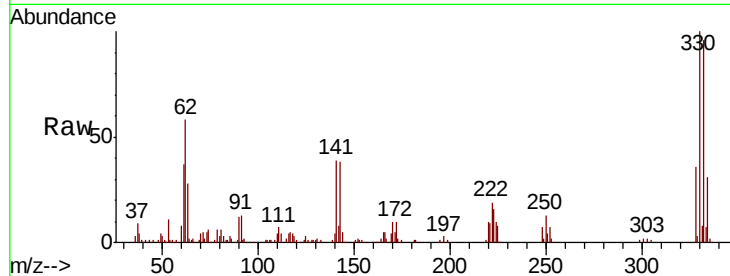
Tot Ion:248 Resp: 13909

Ion Ratio Lower Upper

248 100

250 186.9 77.8 116.6#

141 550.5 64.3 96.5#

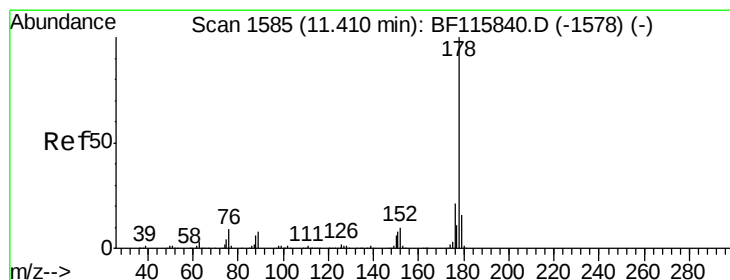
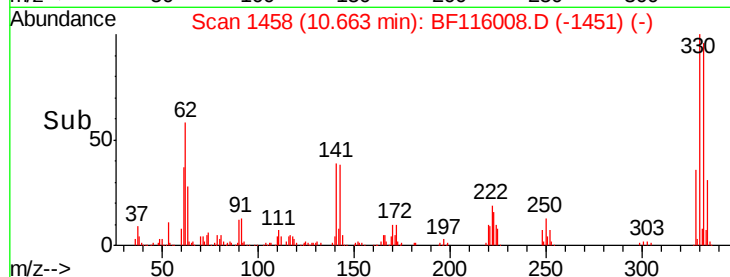
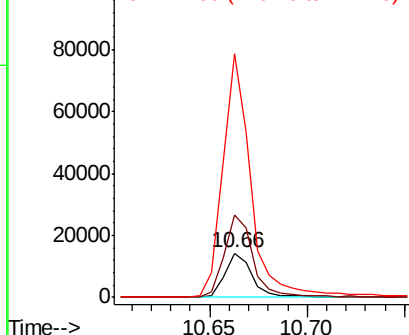


Abundance

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: 3.230 ng

RT: 11.39 min Scan# 1581

Delta R.T. -0.02 min

Lab File: BF116008.D

Acq: 6 Aug 2019 13:02

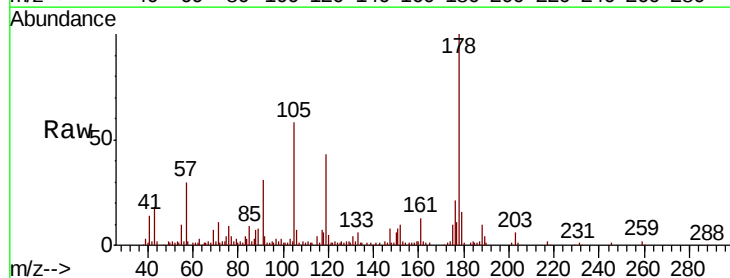
Tgt Ion:178 Resp: 75543

Ion Ratio Lower Upper

178 100

176 21.0 16.5 24.7

179 15.6 12.6 18.8

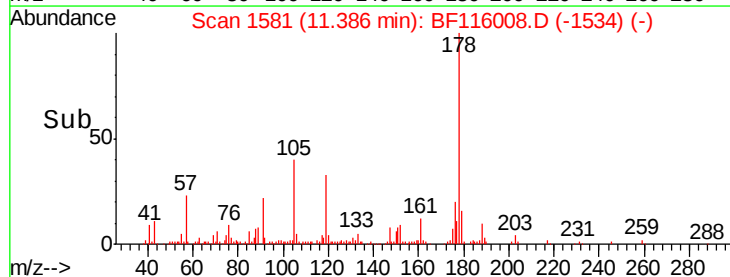
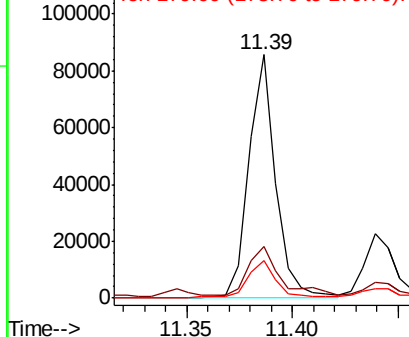


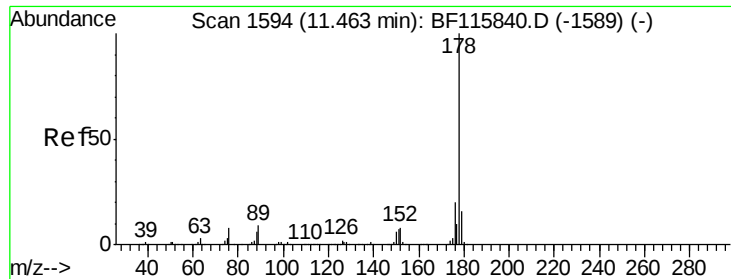
Abundance

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

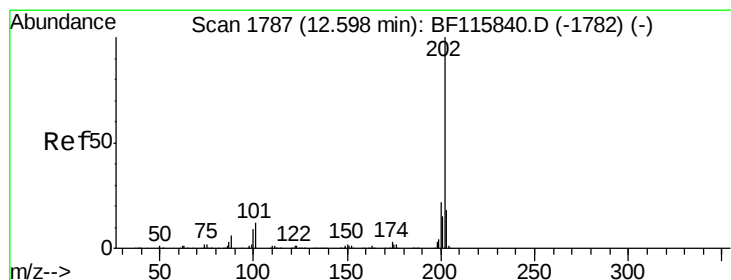
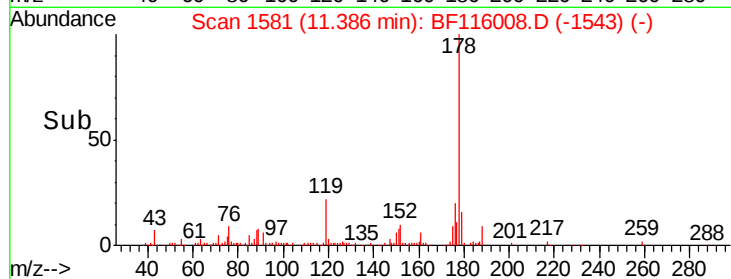
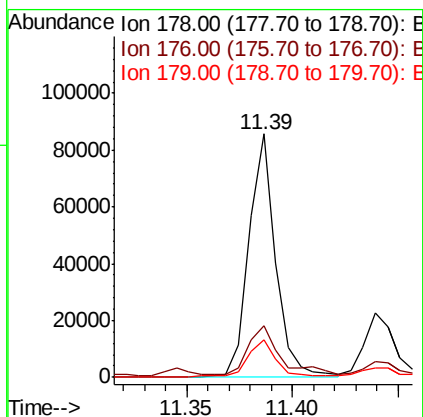
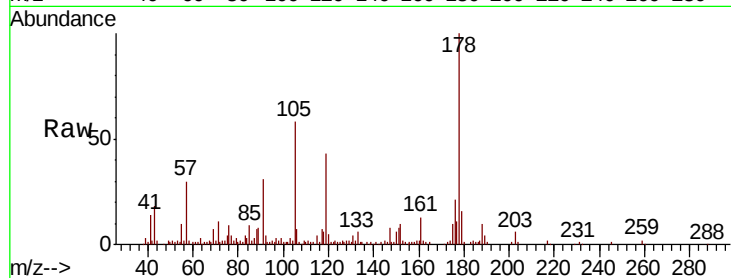




#72
 Anthracene
 Concen: 3.192 ng
 RT: 11.39 min Scan# 1581
 Delta R.T. -0.08 min
 Lab File: BF116008.D
 Acq: 6 Aug 2019 13:02

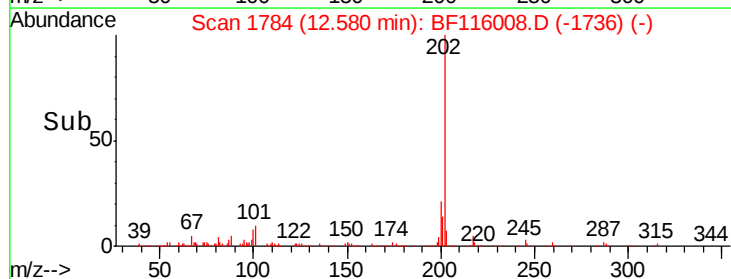
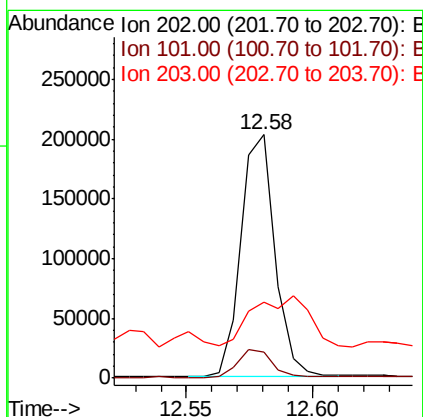
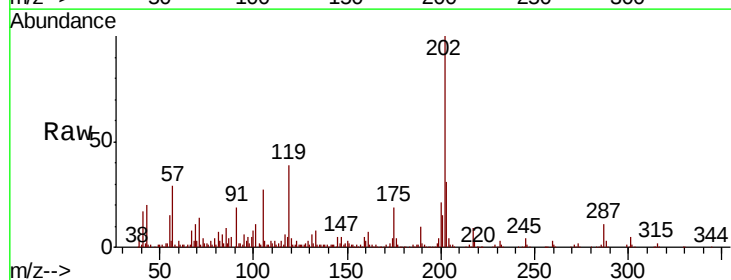
Instrument :
 BNA_F
 ClientSampled :

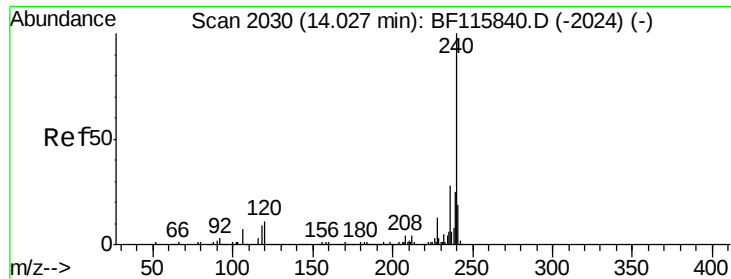
Tot Ion:178 Resp: 75543
 Ion Ratio Lower Upper
 178 100
 176 21.0 15.7 23.5
 179 15.6 12.4 18.6



#75
 Fluoranthene
 Concen: 7.784 ng
 RT: 12.58 min Scan# 1784
 Delta R.T. -0.02 min
 Lab File: BF116008.D
 Acq: 6 Aug 2019 13:02

Tgt Ion:202 Resp: 190584
 Ion Ratio Lower Upper
 202 100
 101 10.6 0.0 31.5
 203 31.3 0.0 37.9

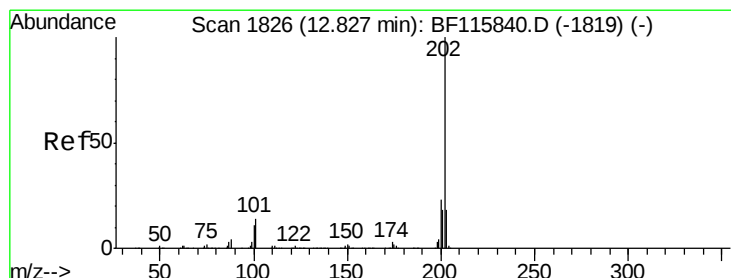
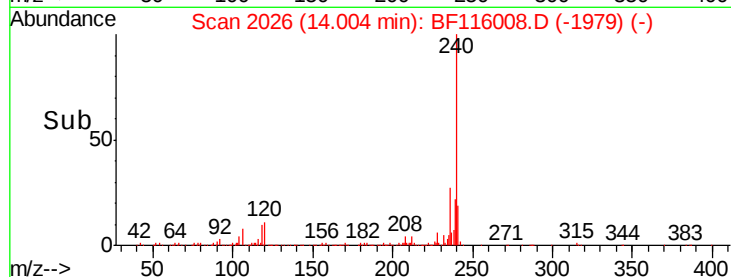
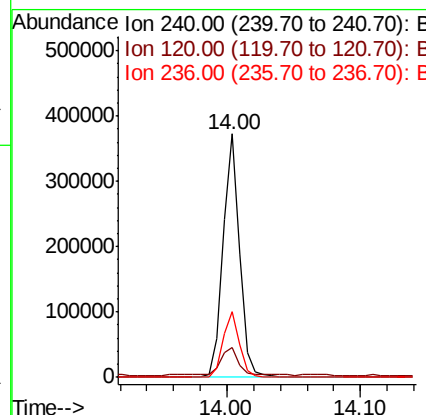
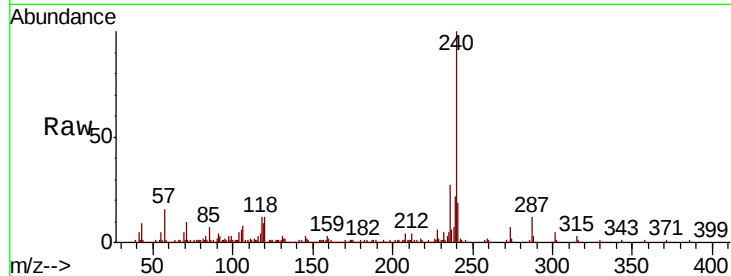




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.00 min Scan# 2026
Delta R.T. -0.02 min
Lab File: BF116008.D
Acq: 6 Aug 2019 13:02

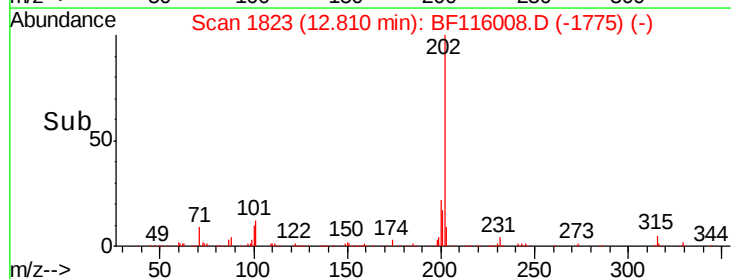
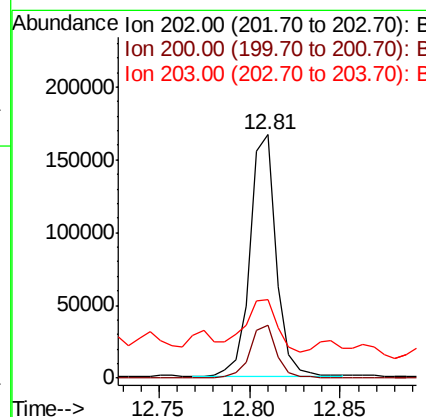
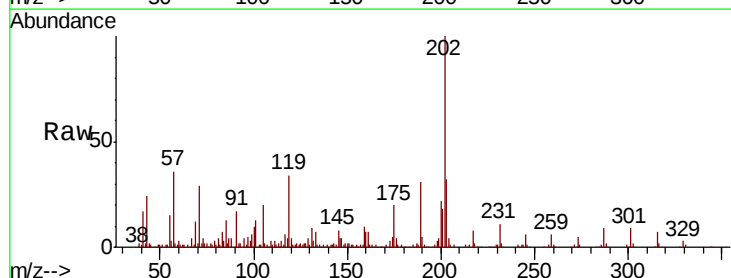
Instrument :
BNA_F
ClientSampleId :

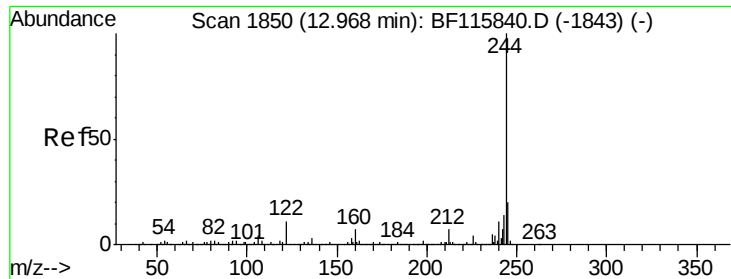
Tot Ion	Ratio	Lower	Upper
240	100		
120	12.1	8.5	12.7
236	26.8	22.2	33.2



#78
Pyrene
Concen: 6.754 ng
RT: 12.81 min Scan# 1823
Delta R.T. -0.02 min
Lab File: BF116008.D
Acq: 6 Aug 2019 13:02

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.6	18.2	27.2
203	32.2	14.3	21.5

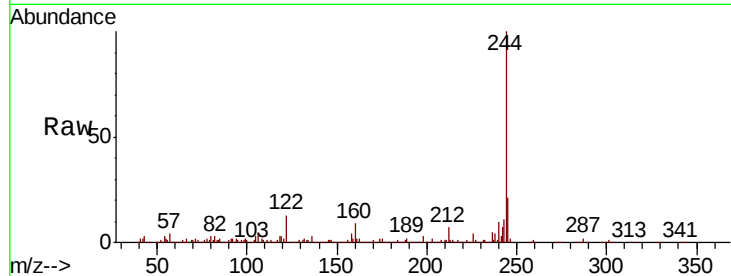




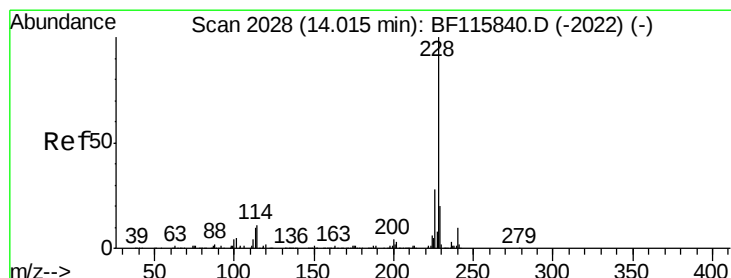
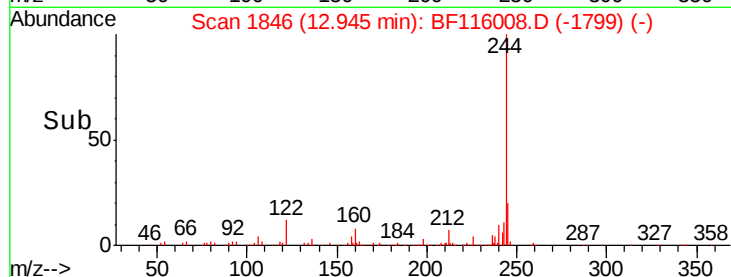
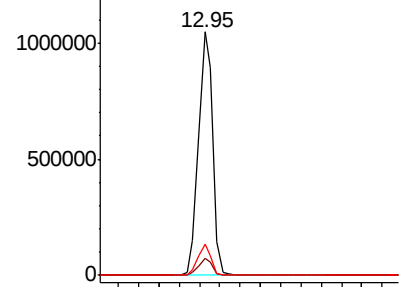
#79
 Terphenyl-d14
 Concen: 65.795 ng
 RT: 12.95 min Scan# 1846
 Delta R.T. -0.02 min
 Lab File: BF116008.D
 Acq: 6 Aug 2019 13:02

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:244 Resp: 1019686
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.6 8.4
 122 12.6 8.6 13.0

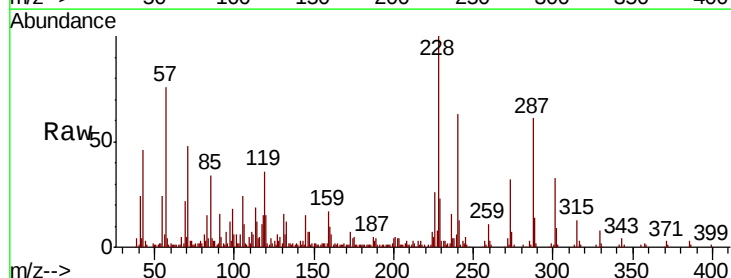


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

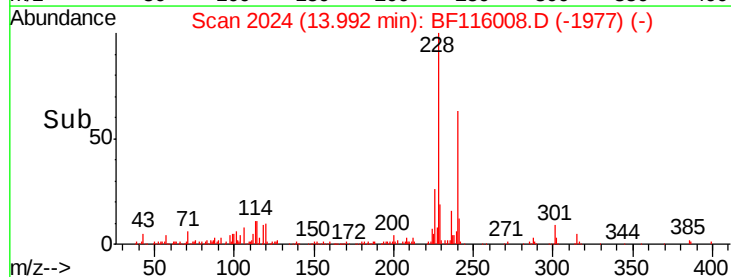
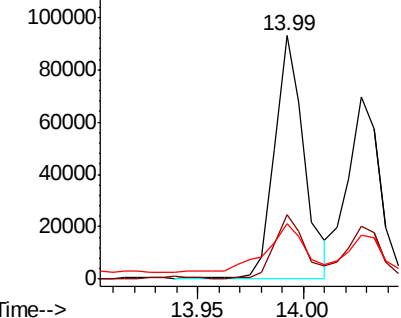


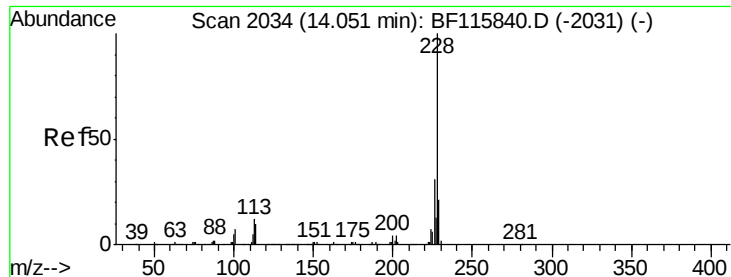
#81
 Benzo(a)anthracene
 Concen: 4.324 ng
 RT: 13.99 min Scan# 2024
 Delta R.T. -0.02 min
 Lab File: BF116008.D
 Acq: 6 Aug 2019 13:02

Tgt Ion:228 Resp: 90253
 Ion Ratio Lower Upper
 228 100
 226 26.5 22.5 33.7
 229 22.8 16.1 24.1



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

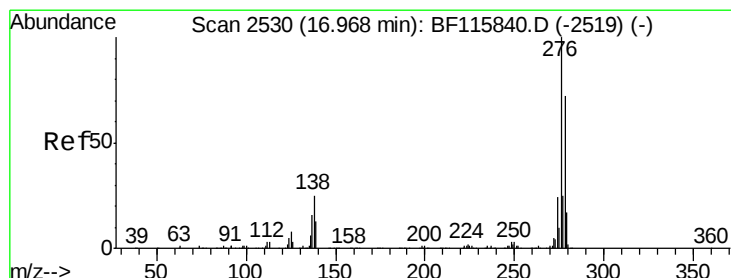
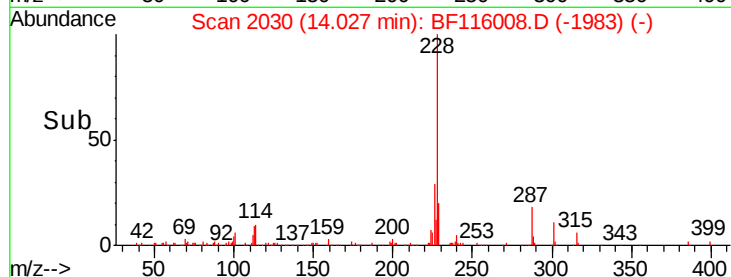
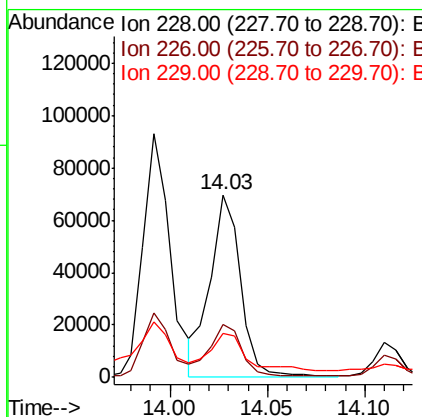
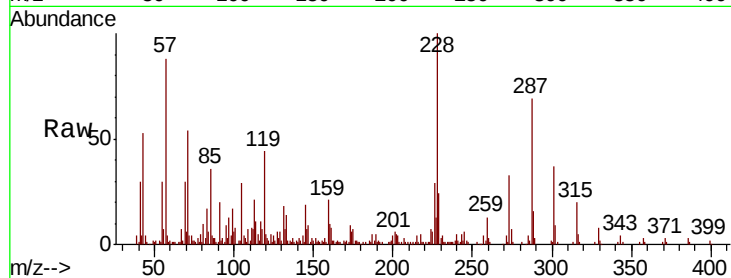




#83
 Chrysene
 Concen: 3.702 ng
 RT: 14.03 min Scan# 2030
 Delta R.T. -0.02 min
 Lab File: BF116008.D
 Acq: 6 Aug 2019 13:02

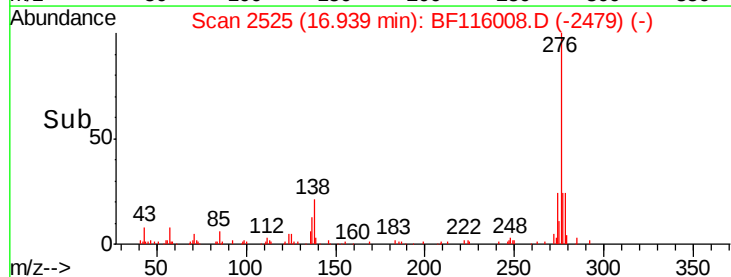
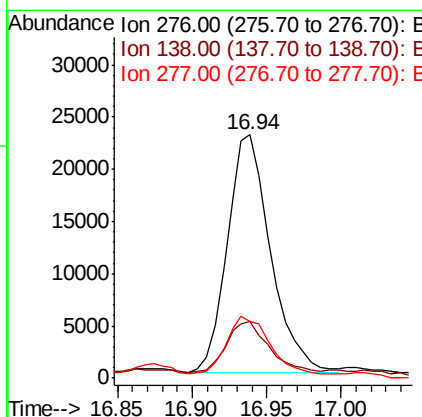
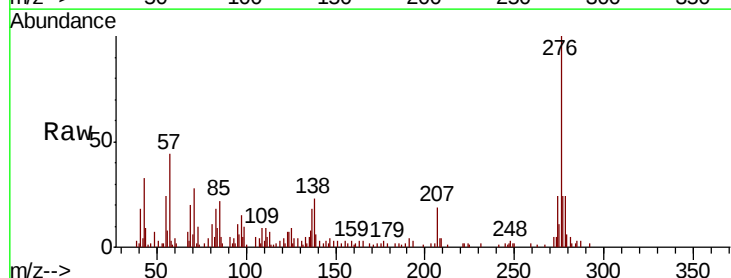
Instrument :
 BNA_F
 ClientSampleId :

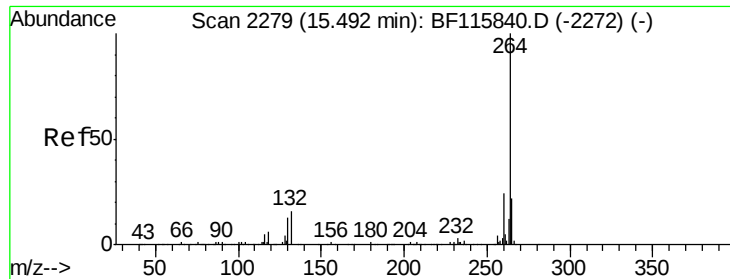
Tot Ion:228 Resp: 75014
 Ion Ratio Lower Upper
 228 100
 226 29.3 24.8 37.2
 229 24.1 16.4 24.6



#86
 Indeno(1,2,3-cd)pyrene
 Concen: 2.715 ng
 RT: 16.94 min Scan# 2525
 Delta R.T. -0.03 min
 Lab File: BF116008.D
 Acq: 6 Aug 2019 13:02

Tgt Ion:276 Resp: 46202
 Ion Ratio Lower Upper
 276 100
 138 21.5 19.6 29.4
 277 25.0 20.1 30.1

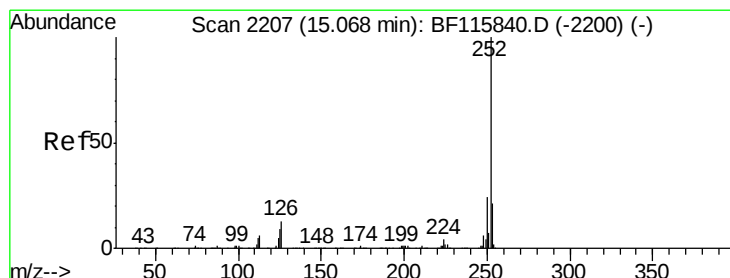
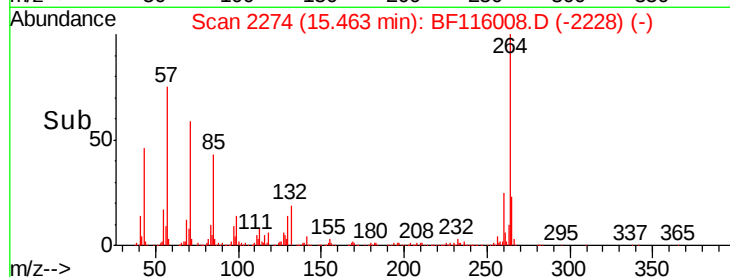
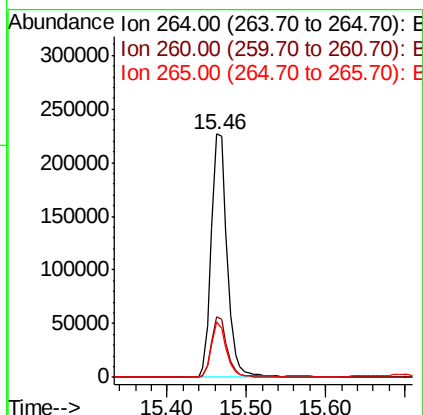
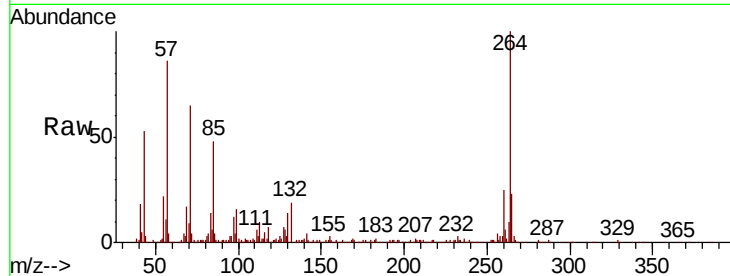




#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.46 min Scan# 2274
Delta R.T. -0.03 min
Lab File: BF116008.D
Acq: 6 Aug 2019 13:02

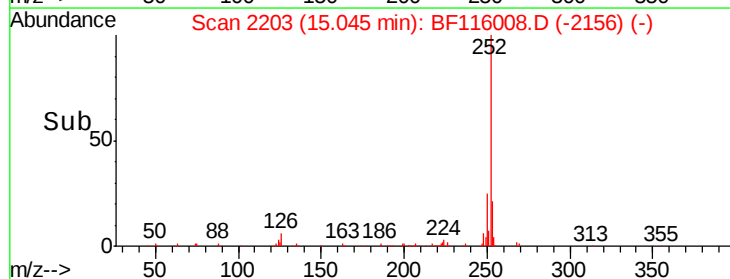
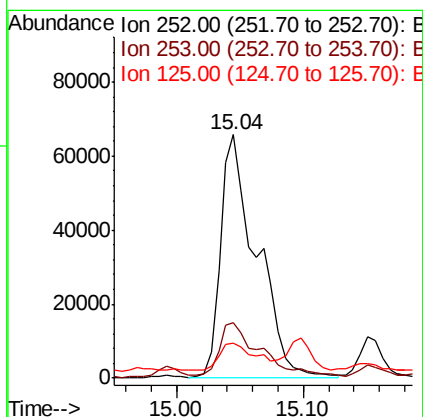
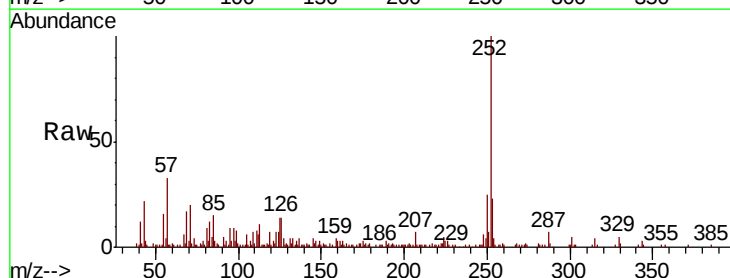
Instrument :
BNA_F
ClientSampleId :

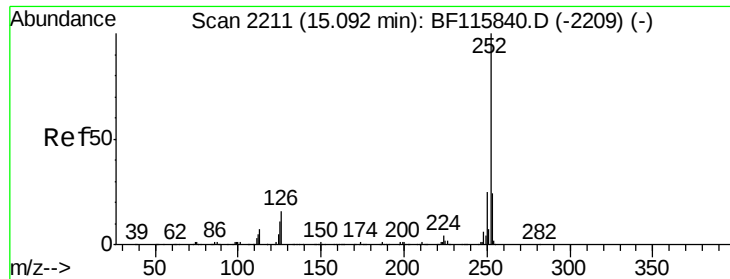
Tot Ion:264 Resp: 316759
Ion Ratio Lower Upper
264 100
260 24.8 19.4 29.2
265 23.0 17.5 26.3



#88
Benzo(b)fluoranthene
Concen: 7.117 ng
RT: 15.04 min Scan# 2203
Delta R.T. -0.02 min
Lab File: BF116008.D
Acq: 6 Aug 2019 13:02

Tgt Ion:252 Resp: 130353
Ion Ratio Lower Upper
252 100
253 22.6 17.2 25.8
125 14.3 7.4 11.0#





#89

Benzo(k)fluoranthene

Concen: 7.307 ng

RT: 15.04 min Scan# 2203

Delta R.T. -0.05 min

Lab File: BF116008.D

Acq: 6 Aug 2019 13:02

Instrument :

BNA_F

ClientSampleId :

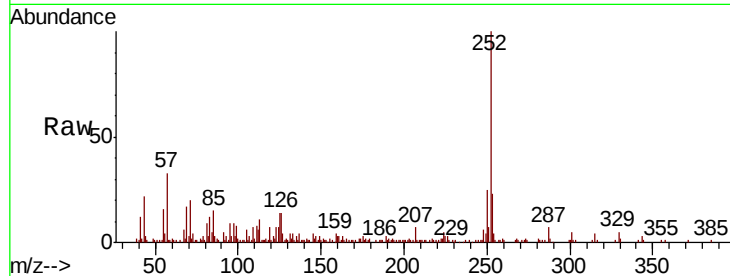
Tot Ion:252 Resp: 130353

Ion Ratio Lower Upper

252 100

253 22.6 18.2 27.4

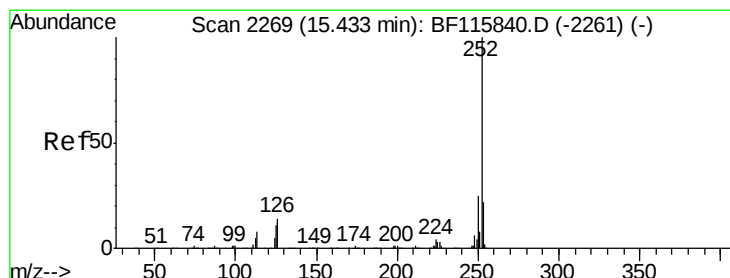
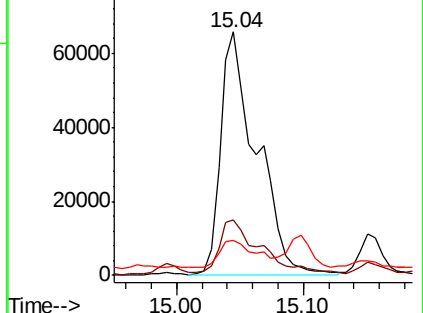
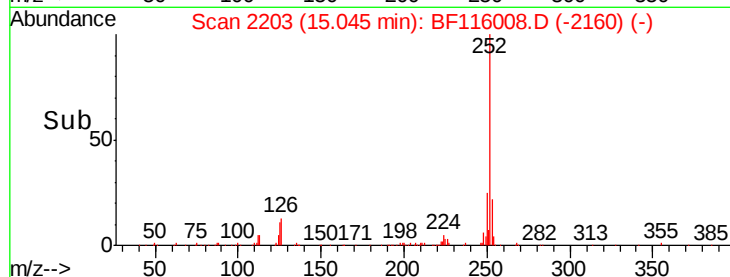
125 14.3 8.9 13.3#



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: 4.266 ng

RT: 15.40 min Scan# 2264

Delta R.T. -0.03 min

Lab File: BF116008.D

Acq: 6 Aug 2019 13:02

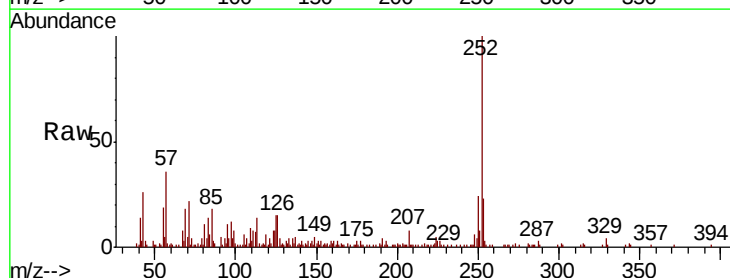
Tgt Ion:252 Resp: 69838

Ion Ratio Lower Upper

252 100

253 23.4 17.8 26.6

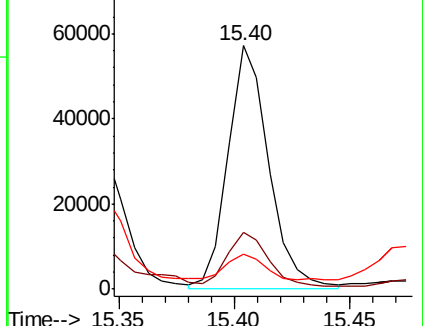
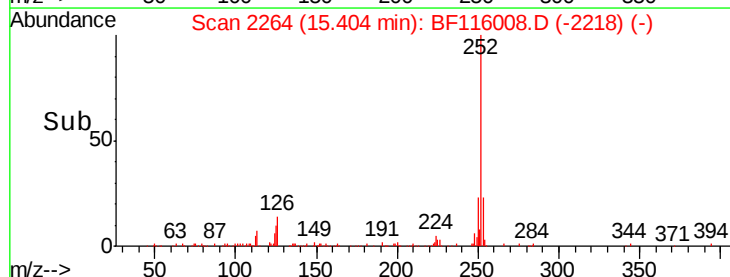
125 14.6 8.8 13.2#

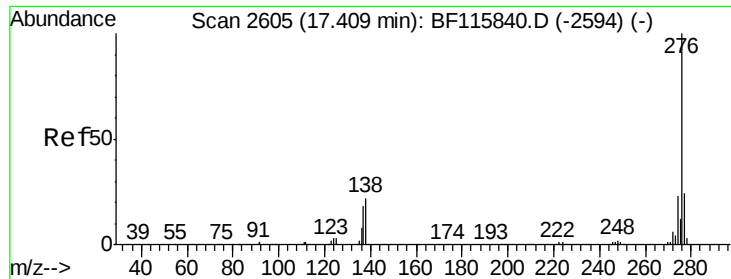


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

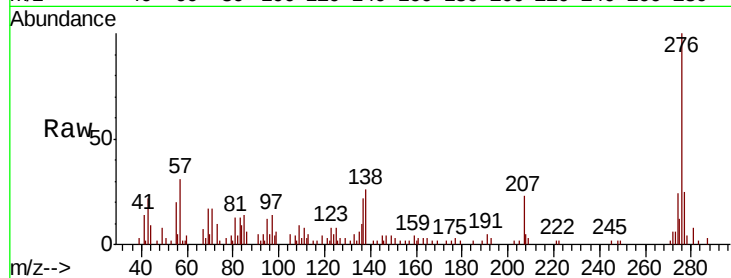




#92
 Benzo(a,h,i)perylene
 Concen: 3.329 ng
 RT: 17.37 min Scan# 2599
 Delta R.T. -0.04 min
 Lab File: BF116008.D
 Acq: 6 Aug 2019 13:02

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.2	19.5	29.3
138	25.6	17.8	26.8



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

