

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF031819\
 Data File : BF113095.D
 Acq On : 18 Mar 2019 17:27
 Operator : JU/SJ
 Sample : K1901-05 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-4(0.5-1.5)

Quant Time: Mar 19 04:50:32 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 13 03:42:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	147982	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	555124	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	281919	20.00	ng	-0.01
64) Phenanthrene-d10	11.24	188	406717	20.00	ng	0.00
76) Chrysene-d12	13.87	240	368759	20.00	ng	0.00
87) Perylene-d12	15.28	264	374481	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.34	112	146662	15.42	ng	0.00
7) Phenol-d6	6.37	99	202346	16.93	ng	0.00
23) Nitrobenzene-d5	7.29	82	110215	11.88	ng	-0.01
42) 2,4,6-Tribromophenol	10.54	330	39228	13.11	ng	0.00
45) 2-Fluorobiphenyl	9.08	172	237066	10.12	ng	-0.01
79) Terphenyl-d14	12.82	244	193836	10.19	ng	0.00

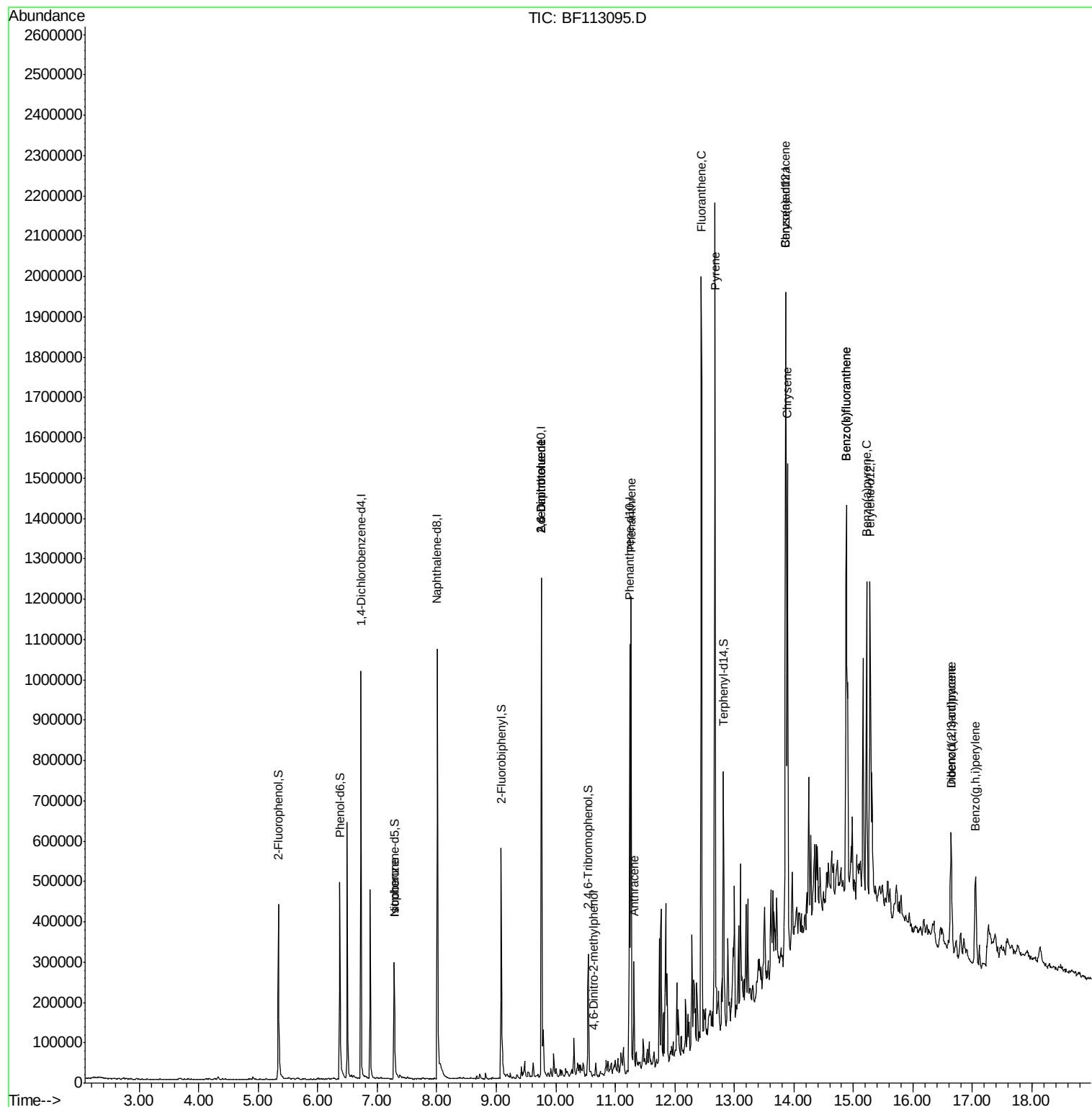
Target Compounds					Qvalue	
25) Isophorone	7.29	82	110214	5.515	ng	# 66
51) 2,6-Dinitrotoluene	9.76	165	36304	8.387	ng	# 18
57) 2,4-Dinitrotoluene	9.76	165	36305	6.747	ng	# 18
65) 4,6-Dinitro-2-methylphenol	10.63	198	107	4.671	ng	# 20
71) Phenanthrene	11.26	178	434831	21.488	ng	98
72) Anthracene	11.31	178	105597	4.985	ng	97
75) Fluoranthene	12.44	202	785287	36.221	ng	98
78) Pyrene	12.67	202	855536	27.520	ng	99
81) Benzo(a)anthracene	13.86	228	518157	20.274	ng	100
83) Chrysene	13.89	228	475780	19.005	ng	96
86) Indeno(1,2,3-cd)pyrene	16.64	276	201033	9.419	ng	# 89
88) Benzo(b)fluoranthene	14.88	252	723205	29.857	ng	99
89) Benzo(k)fluoranthene	14.88	252	723205	32.962	ng	99
90) Benzo(a)pyrene	15.22	252	403543	18.835	ng	97
91) Dibenzo(a,h)anthracene	16.64	278	59084	3.232	ng	94
92) Benzo(g,h,i)perylene	17.05	276	185134	10.085	ng	95

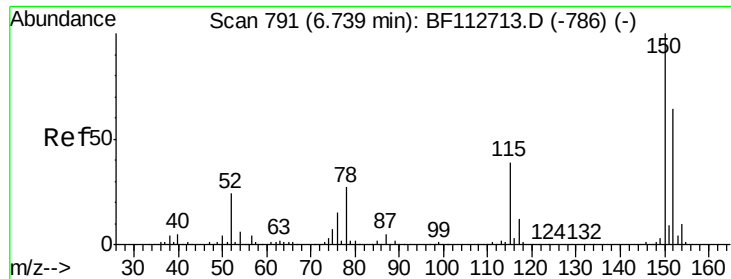
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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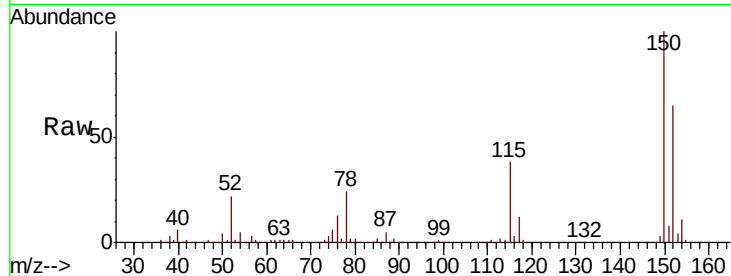


#1

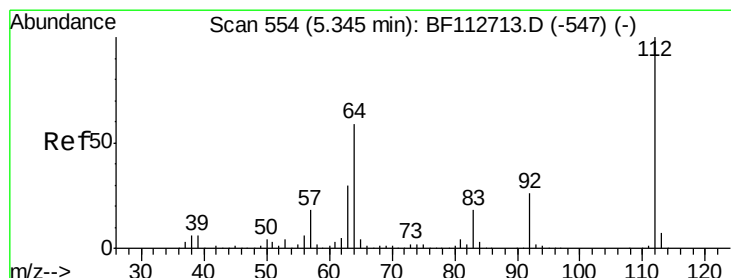
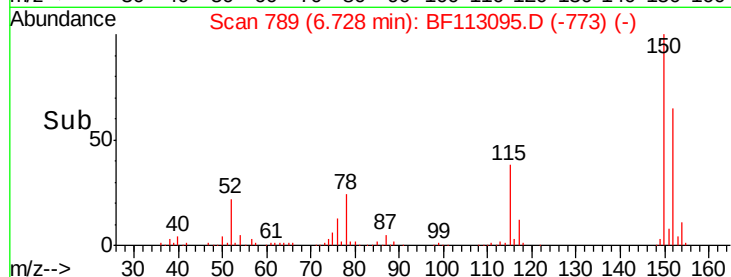
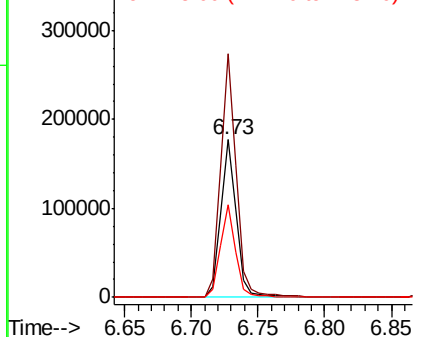
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.73 min Scan# 789
 Delta R.T. -0.01 min
 Lab File: BF113095.D
 Acq: 18 Mar 2019 17:27

Instrument :
 BNA_F
 ClientSampleId :
 SB-4(0.5-1.5)

Tgt Ion:152 Resp: 147982
 Ion Ratio Lower Upper
 152 100
 150 154.4 124.2 186.2
 115 58.5 48.2 72.4



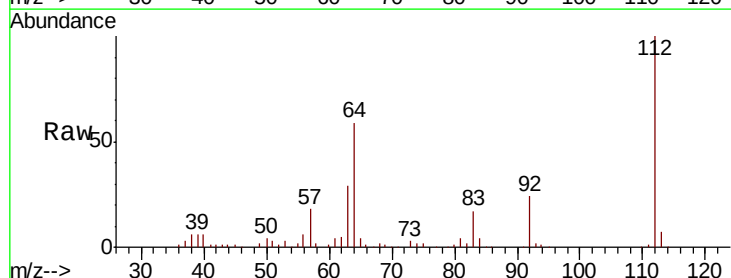
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



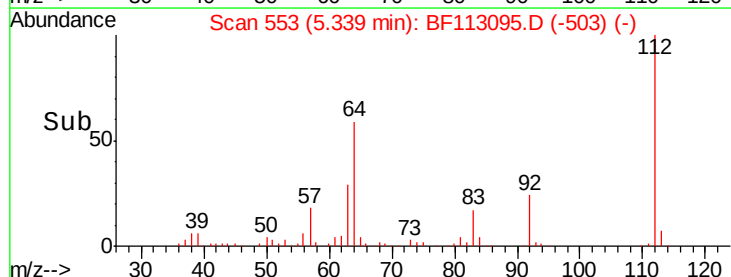
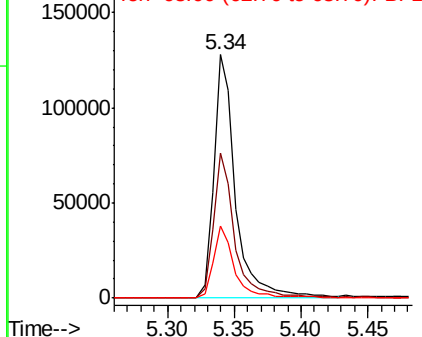
#5

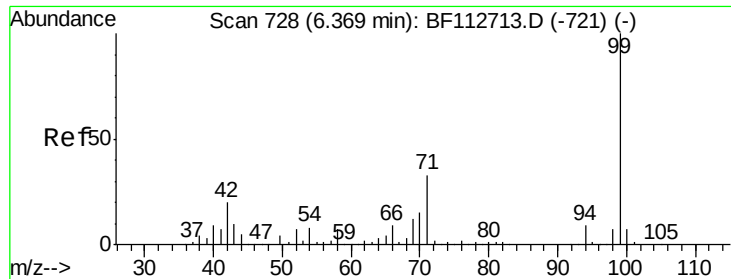
2-Fluorophenol
 Concen: 15.417 ng
 RT: 5.34 min Scan# 553
 Delta R.T. -0.01 min
 Lab File: BF113095.D
 Acq: 18 Mar 2019 17:27

Tgt Ion:112 Resp: 146662
 Ion Ratio Lower Upper
 112 100
 64 59.5 47.6 71.4
 63 29.4 24.4 36.6



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: 16.933 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF113095.D

Acq: 18 Mar 2019 17:27

Instrument :

BNA_F

ClientSampleId :

SB-4(0.5-1.5)

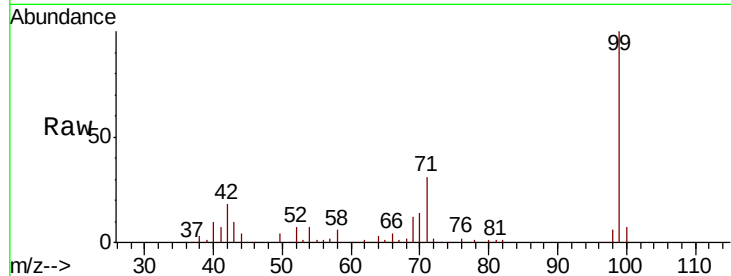
Tgt Ion: 99 Resp: 202346

Ion Ratio Lower Upper

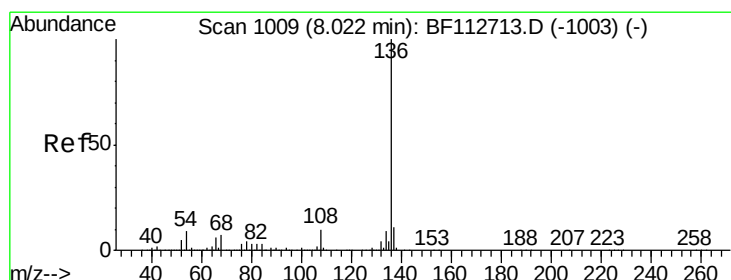
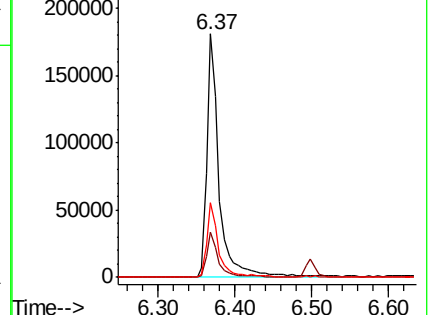
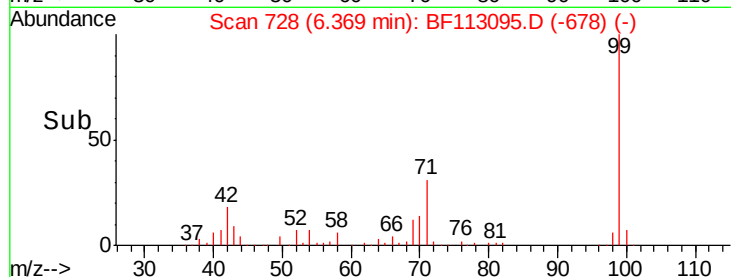
99 100

42 18.3 16.3 24.5

71 30.9 26.2 39.4



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.01 min Scan# 1007

Delta R.T. -0.01 min

Lab File: BF113095.D

Acq: 18 Mar 2019 17:27

Tgt Ion: 136 Resp: 555124

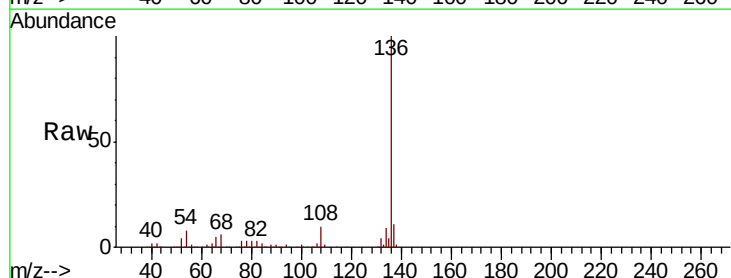
Ion Ratio Lower Upper

136 100

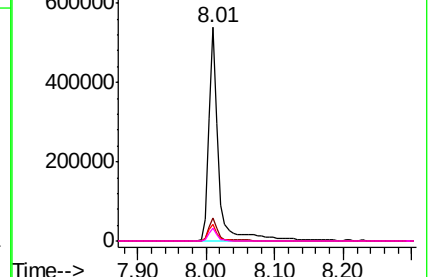
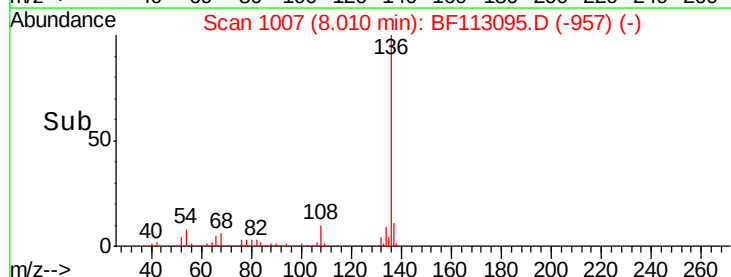
137 10.7 8.9 13.3

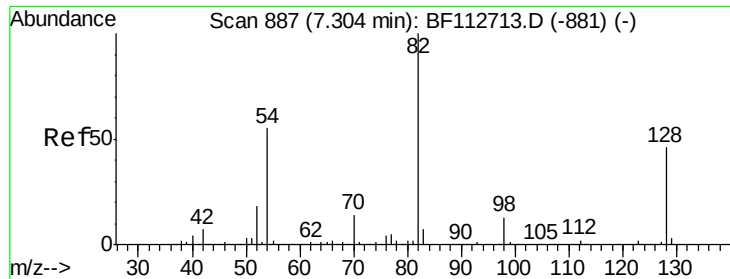
54 8.0 7.3 10.9

68 5.7 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

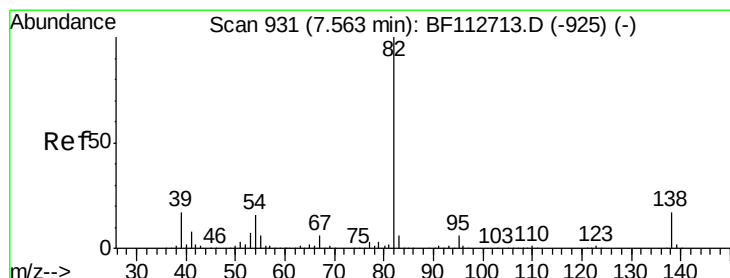
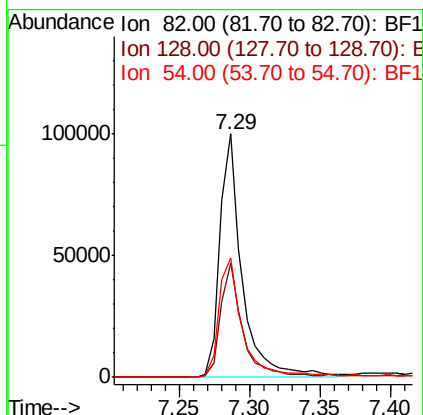
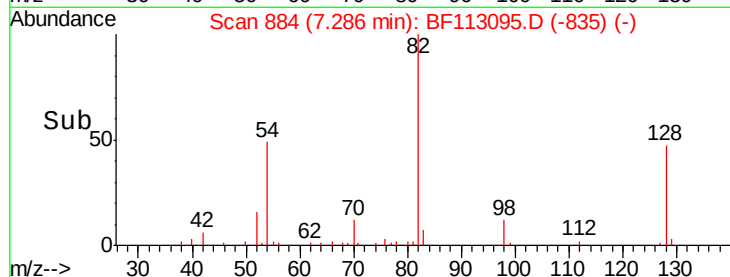
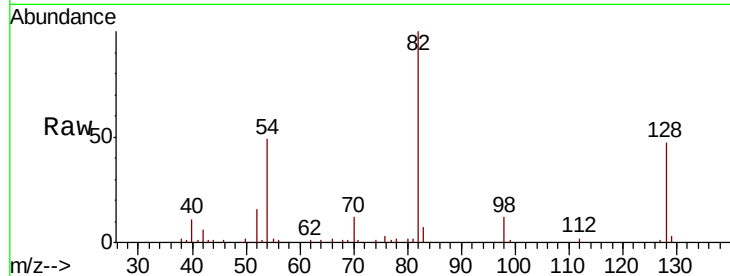




#23
Nitrobenzene-d5
Concen: 11.880 ng
RT: 7.29 min Scan# 884
Delta R.T. -0.01 min
Lab File: BF113095.D
Acq: 18 Mar 2019 17:27

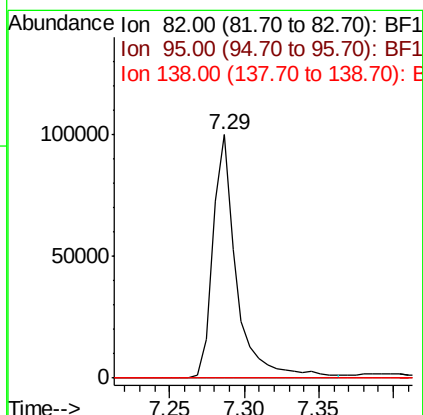
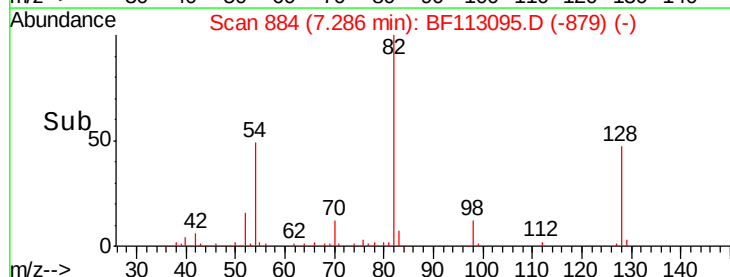
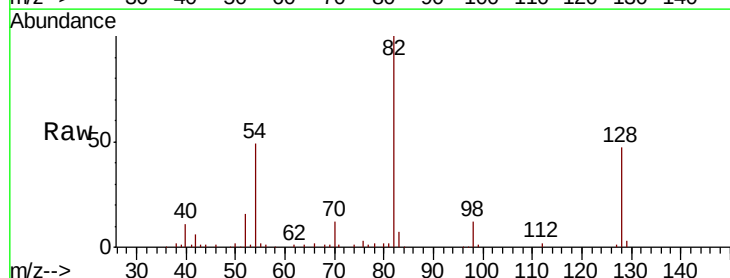
Instrument :
BNA_F
ClientSampleId :
SB-4(0.5-1.5)

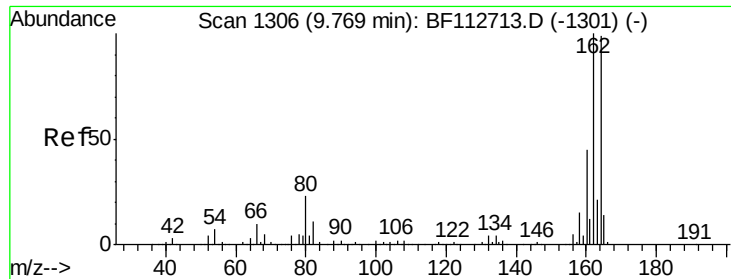
Tgt Ion: 82 Resp: 110215
Ion Ratio Lower Upper
82 100
128 46.9 36.3 54.5
54 49.0 43.7 65.5



#25
Isophorone
Concen: 5.515 ng
RT: 7.29 min Scan# 884
Delta R.T. -0.27 min
Lab File: BF113095.D
Acq: 18 Mar 2019 17:27

Tgt Ion: 82 Resp: 110214
Ion Ratio Lower Upper
82 100
95 0.0 5.2 7.8#
138 0.0 13.8 20.8#

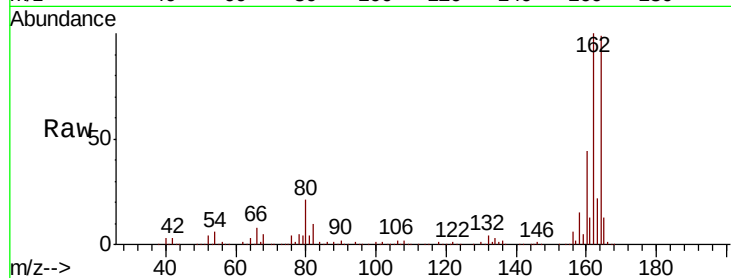




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1304
Delta R.T. -0.01 min
Lab File: BF113095.D
Acq: 18 Mar 2019 17:27

Instrument :
BNA_F
ClientSampleId :
SB-4(0.5-1.5)

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.3	80.6	120.8
160	44.4	36.0	54.0

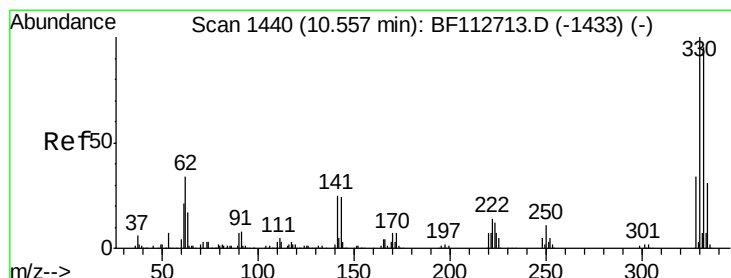
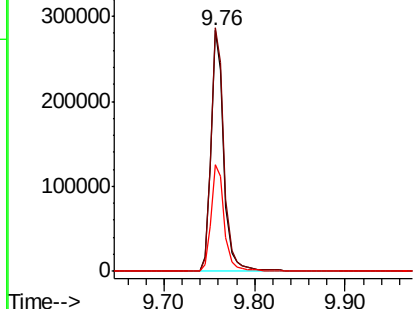
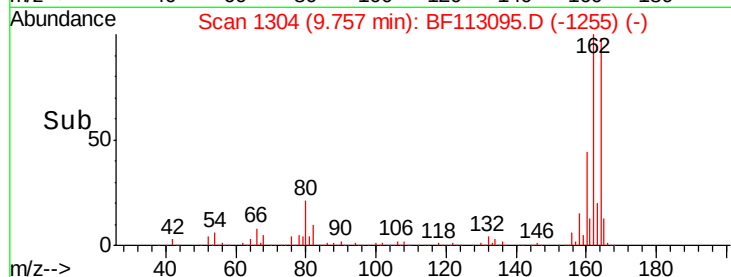


Abundance

Ion 164.00 (163.70 to 164.70): E

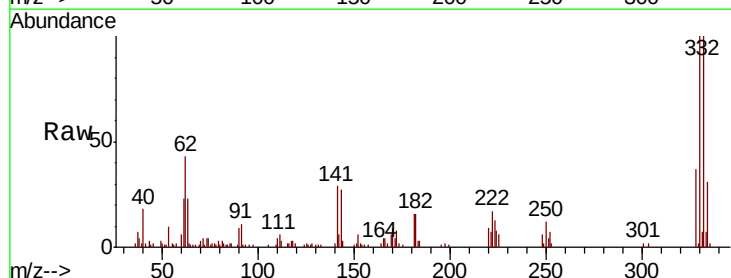
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42
2,4,6-Tribromophenol
Concen: 13.107 ng
RT: 10.54 min Scan# 1438
Delta R.T. -0.01 min
Lab File: BF113095.D
Acq: 18 Mar 2019 17:27

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.8	76.2	114.4
141	32.4	27.0	40.6

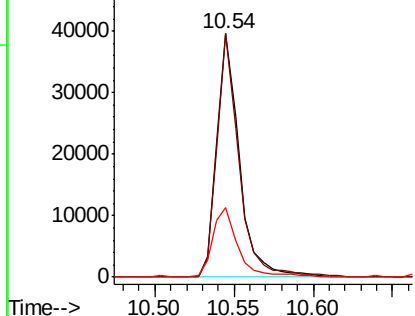
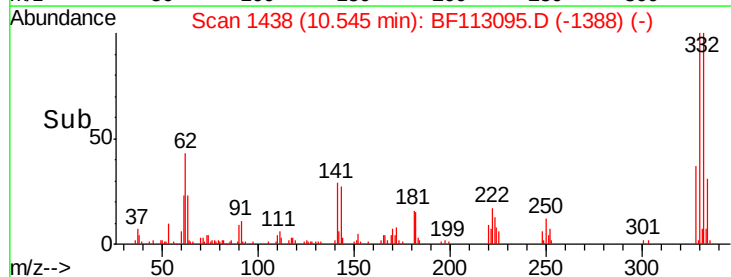


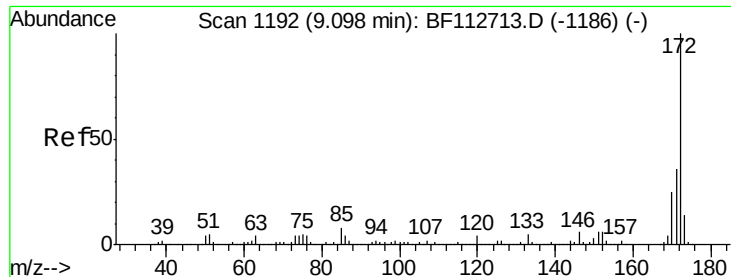
Abundance

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

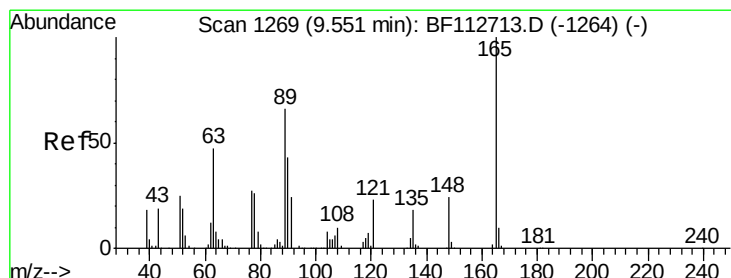
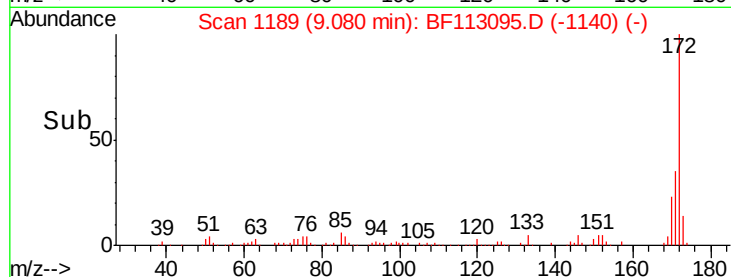
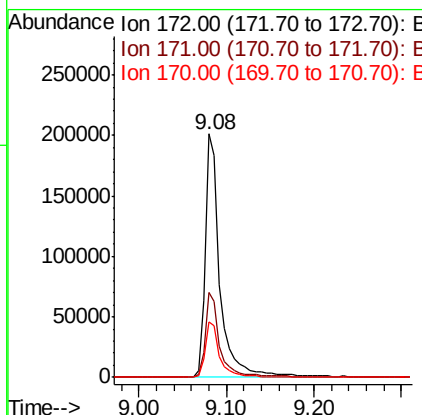
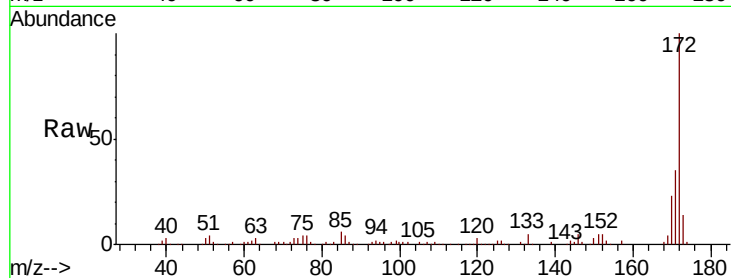




#45
 2-Fluorobiphenyl
 Concen: 10.116 ng
 RT: 9.08 min Scan# 1189
 Delta R.T. -0.01 min
 Lab File: BF113095.D
 Acq: 18 Mar 2019 17:27

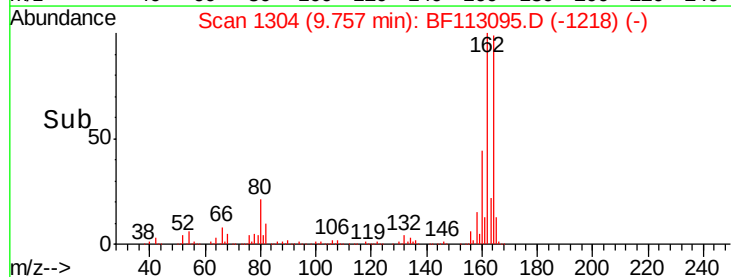
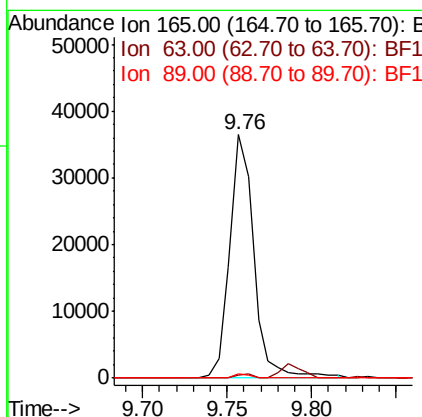
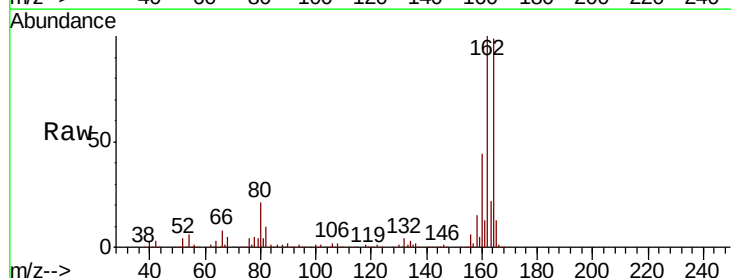
Instrument :
 BNA_F
 ClientSampleId :
 SB-4(0.5-1.5)

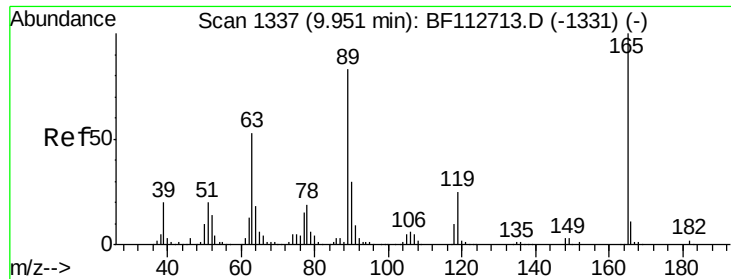
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.9	29.0	43.4
170	22.7	20.0	30.0



#51
 2,6-Dinitrotoluene
 Concen: 8.387 ng
 RT: 9.76 min Scan# 1304
 Delta R.T. 0.21 min
 Lab File: BF113095.D
 Acq: 18 Mar 2019 17:27

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.3	54.1	81.1#
89	1.6	52.8	79.2#

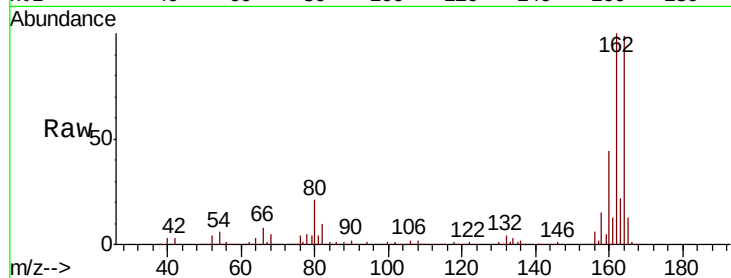




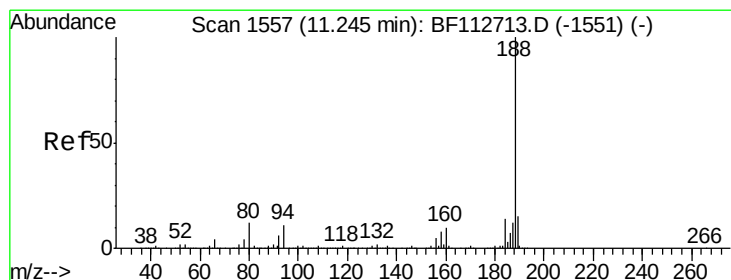
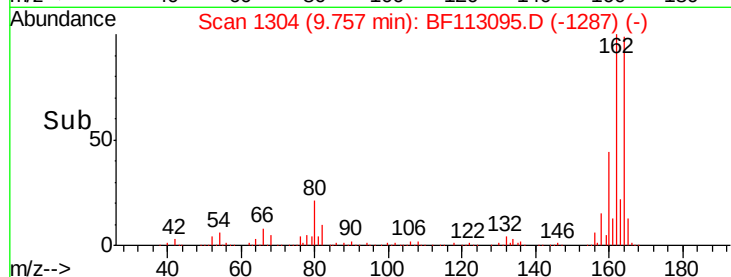
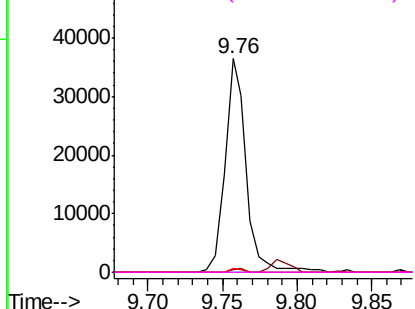
#57
 2,4-Dinitrotoluene
 Concen: 6.747 ng
 RT: 9.76 min Scan# 1304
 Delta R.T. -0.20 min
 Lab File: BF113095.D
 Acq: 18 Mar 2019 17:27

Instrument :
 BNA_F
 ClientSampleId :
 SB-4(0.5-1.5)

Tgt Ion:	165	Resp:	36305
Ion	Ratio	Lower	Upper
165	100		
63	1.3	42.2	63.2#
89	1.6	66.2	99.4#
182	0.0	1.8	2.6#

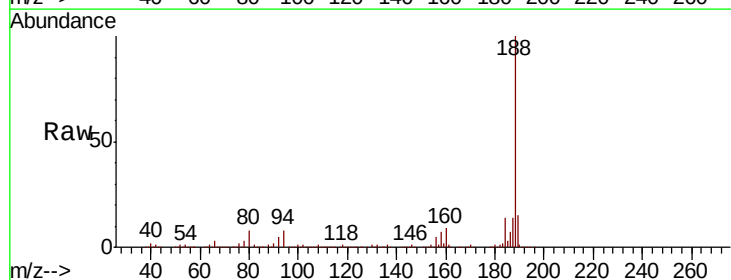


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1
 Ion 182.00 (181.70 to 182.70): E

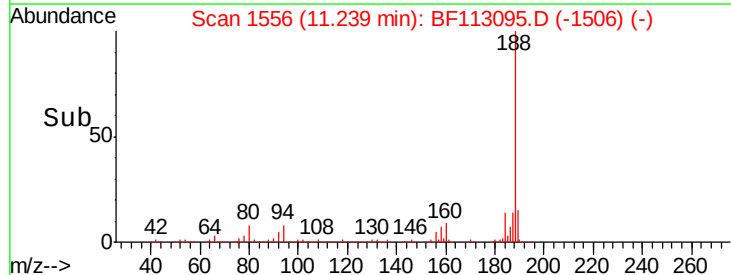
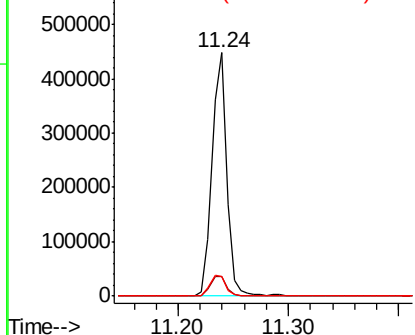


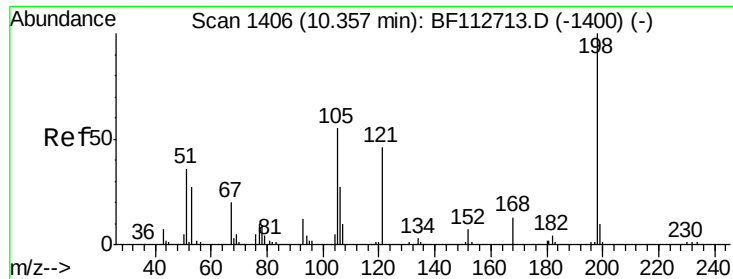
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.24 min Scan# 1556
 Delta R.T. -0.01 min
 Lab File: BF113095.D
 Acq: 18 Mar 2019 17:27

Tgt Ion:	188	Resp:	406717
Ion	Ratio	Lower	Upper
188	100		
94	8.2	9.0	13.4#
80	8.3	9.2	13.8#



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

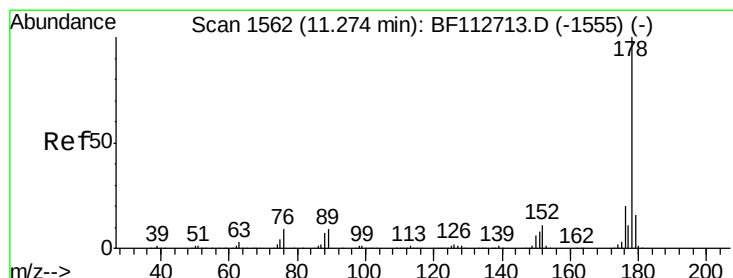
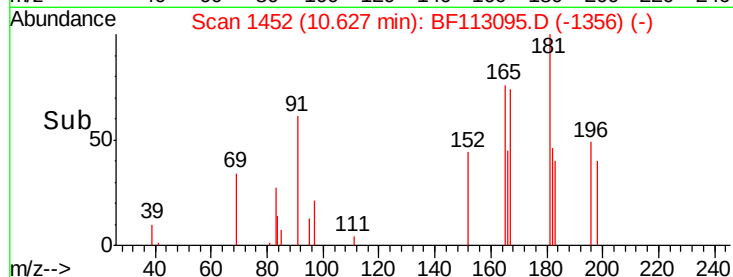
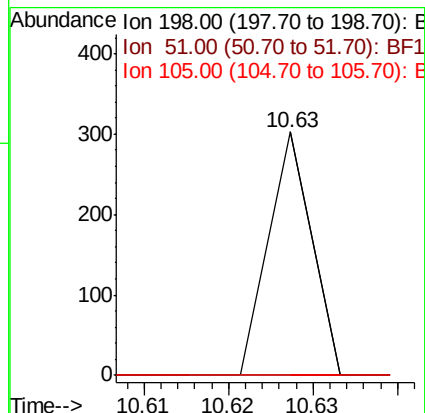
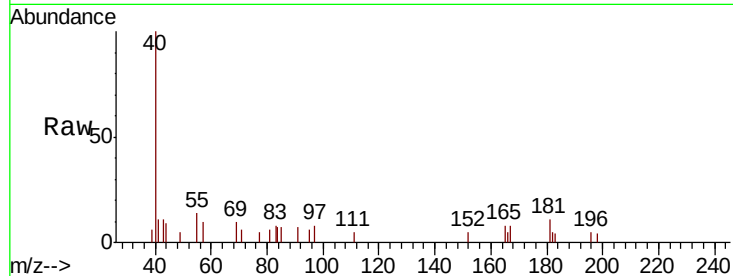




#65
 4,6-Dinitro-2-methylphenol
 Concen: 4.671 ng
 RT: 10.63 min Scan# 1452
 Delta R.T. 0.26 min
 Lab File: BF113095.D
 Acq: 18 Mar 2019 17:27

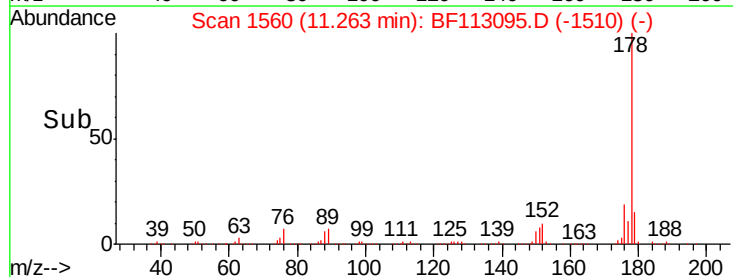
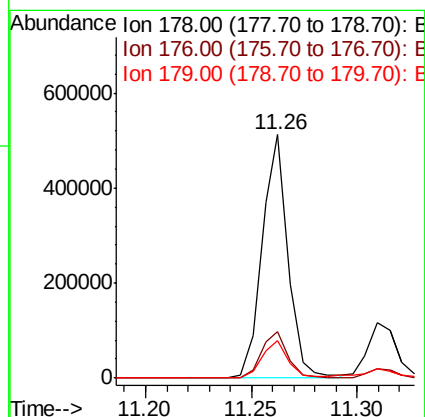
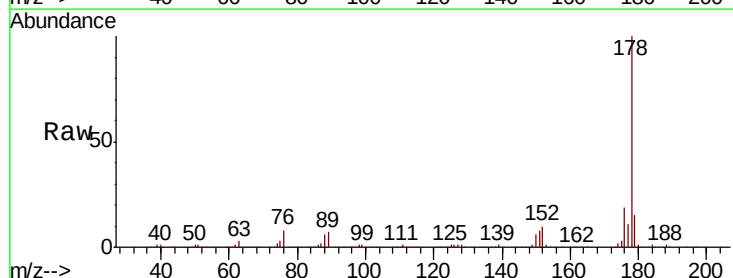
Instrument :
 BNA_F
 ClientSampleId :
 SB-4(0.5-1.5)

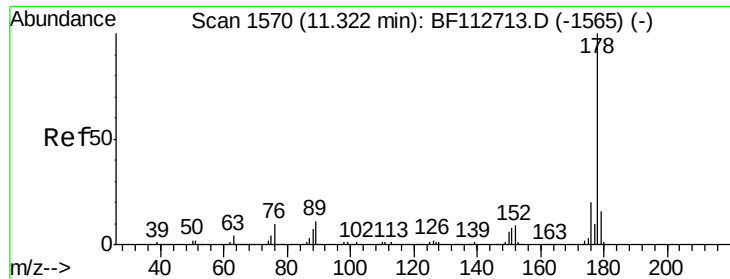
Tgt Ion	Ratio	Lower	Upper
198	100		
51	0.0	43.8	83.8#
105	0.0	36.5	76.5#



#71
 Phenanthrene
 Concen: 21.488 ng
 RT: 11.26 min Scan# 1560
 Delta R.T. -0.01 min
 Lab File: BF113095.D
 Acq: 18 Mar 2019 17:27

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.2	16.3	24.5
179	15.3	12.7	19.1





#72

Anthracene

Concen: 4.985 ng

RT: 11.31 min Scan# 1568

Delta R.T. -0.01 min

Lab File: BF113095.D

Acq: 18 Mar 2019 17:27

Instrument :

BNA_F

ClientSampleId :

SB-4(0.5-1.5)

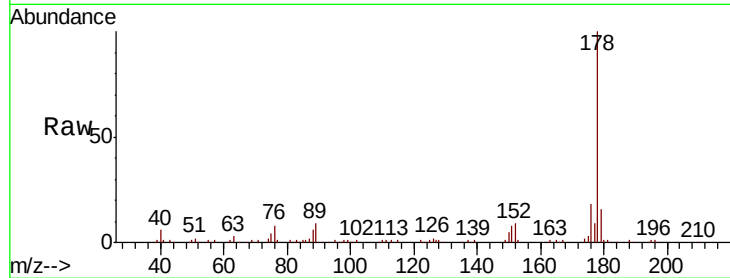
Tgt Ion:178 Resp: 105597

Ion Ratio Lower Upper

178 100

176 17.7 15.8 23.6

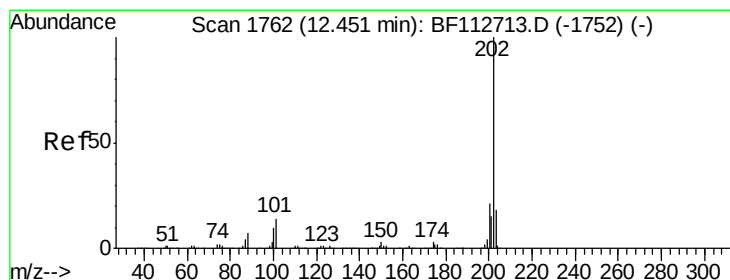
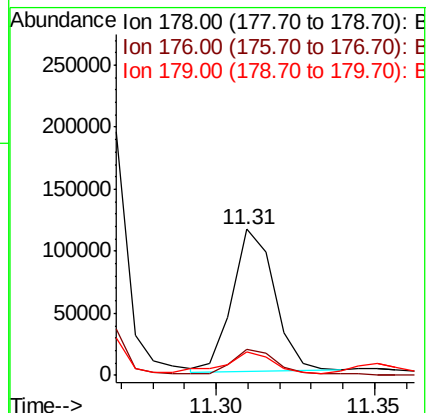
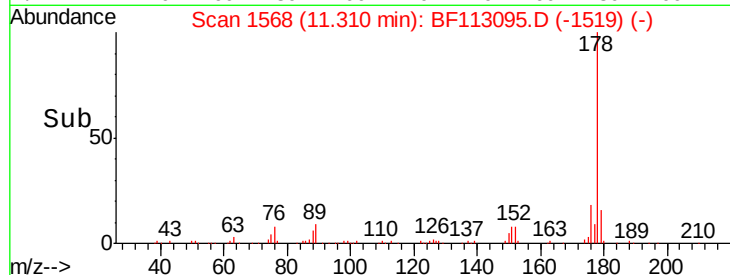
179 16.0 13.0 19.6



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: 36.221 ng

RT: 12.44 min Scan# 1761

Delta R.T. -0.01 min

Lab File: BF113095.D

Acq: 18 Mar 2019 17:27

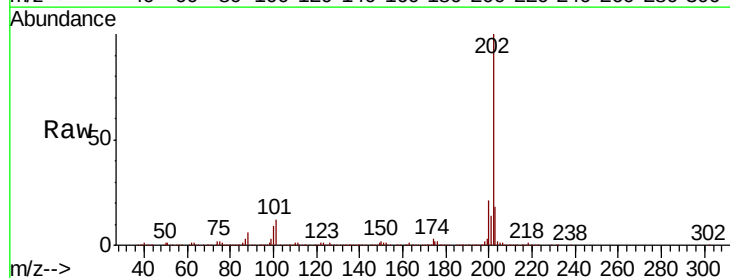
Tgt Ion:202 Resp: 785287

Ion Ratio Lower Upper

202 100

101 11.7 0.0 33.8

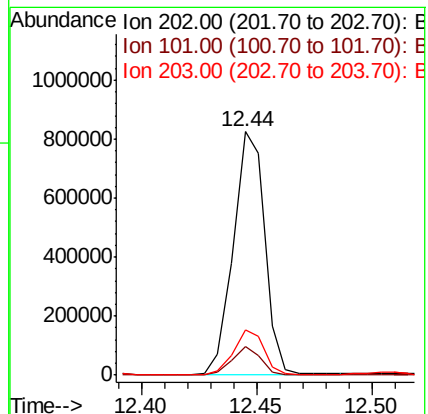
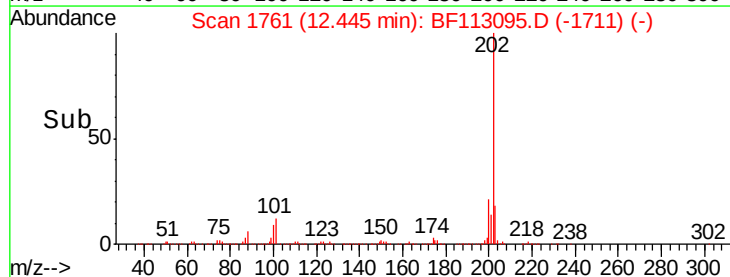
203 18.5 0.0 38.4

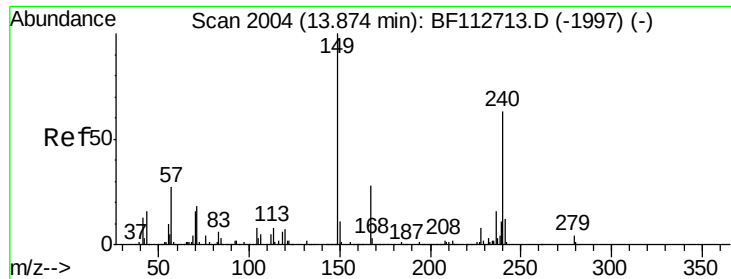


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

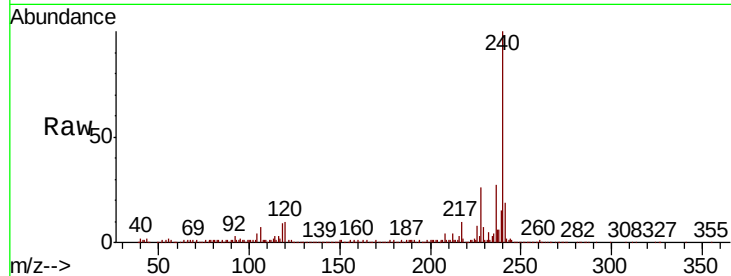




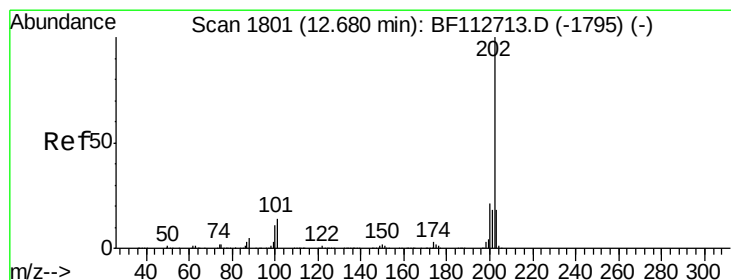
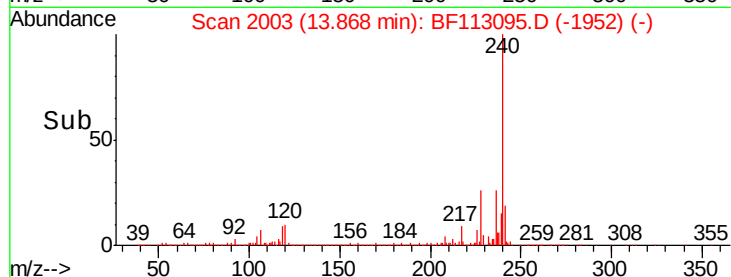
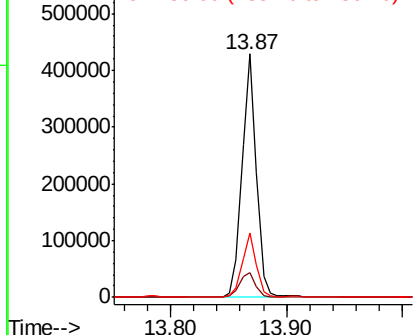
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.87 min Scan# 2003
Delta R.T. -0.00 min
Lab File: BF113095.D
Acq: 18 Mar 2019 17:27

Instrument :
BNA_F
ClientSampleId :
SB-4(0.5-1.5)

Tgt Ion:240 Resp: 368759
Ion Ratio Lower Upper
240 100
120 10.1 8.9 13.3
236 26.6 20.7 31.1

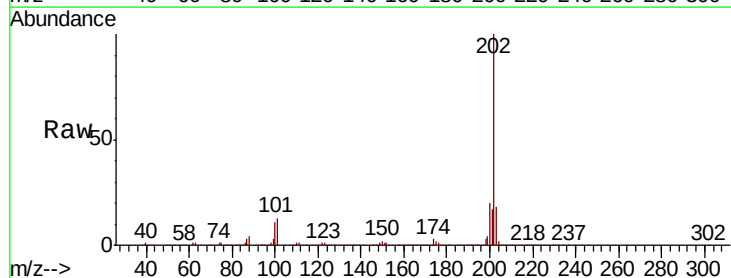


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

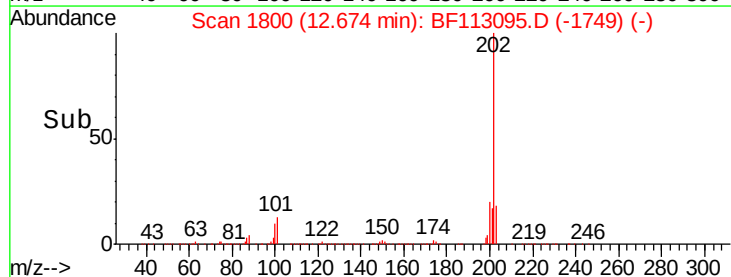
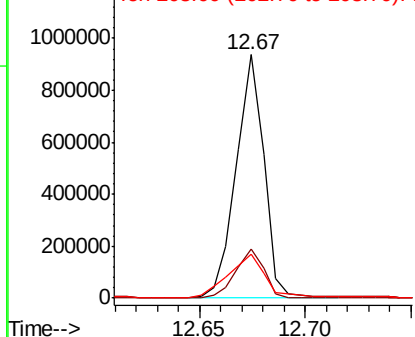


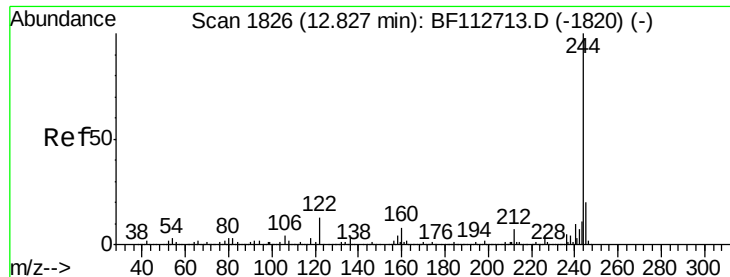
#78
Pyrene
Concen: 27.520 ng
RT: 12.67 min Scan# 1800
Delta R.T. -0.00 min
Lab File: BF113095.D
Acq: 18 Mar 2019 17:27

Tgt Ion:202 Resp: 855536
Ion Ratio Lower Upper
202 100
200 20.4 17.0 25.4
203 18.1 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

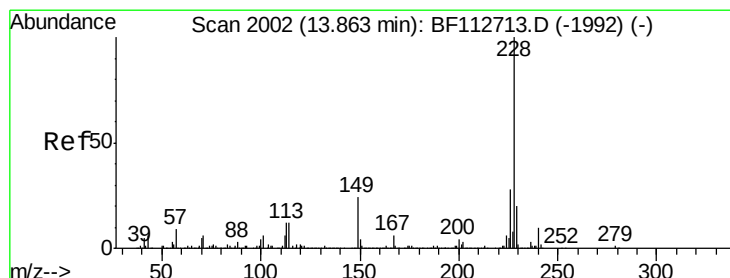
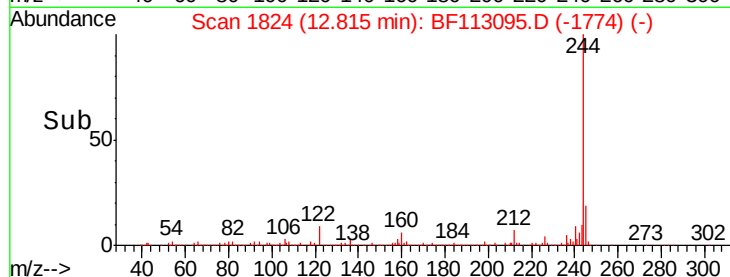
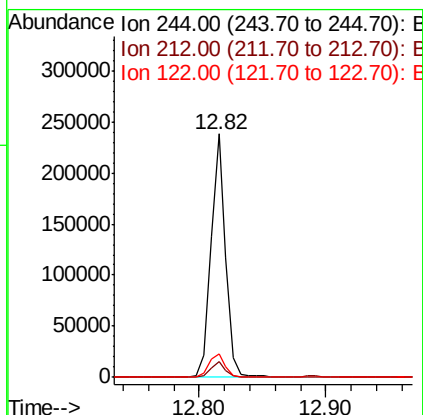
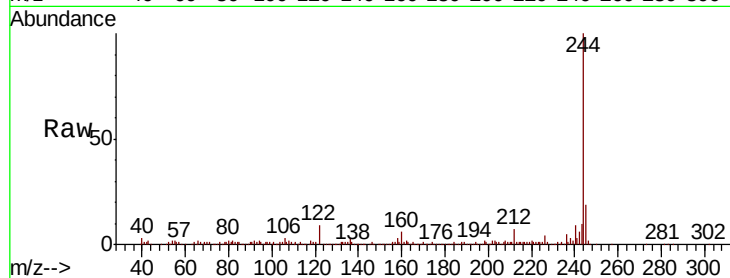




#79
 Terphenyl-d14
 Concen: 10.190 ng
 RT: 12.82 min Scan# 1824
 Delta R.T. -0.01 min
 Lab File: BF113095.D
 Acq: 18 Mar 2019 17:27

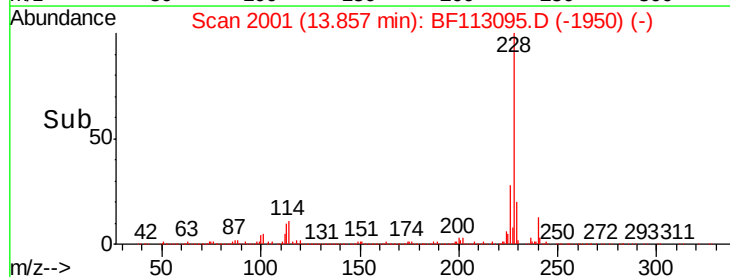
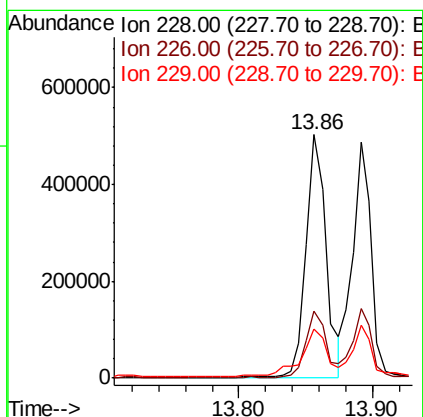
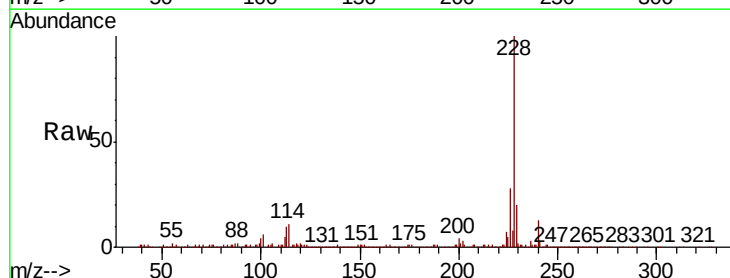
Instrument :
 BNA_F
 ClientSampleId :
 SB-4(0.5-1.5)

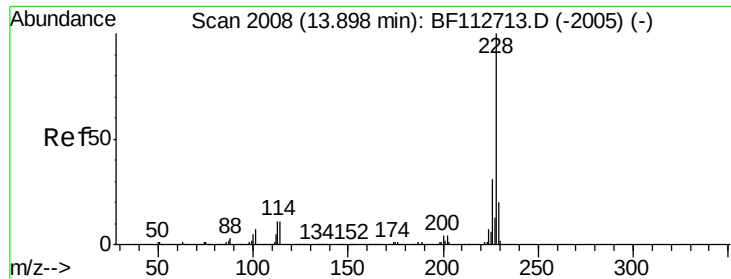
Tgt Ion:244 Resp: 193836
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.6 8.4
 122 9.4 10.5 15.7#



#81
 Benzo(a)anthracene
 Concen: 20.274 ng
 RT: 13.86 min Scan# 2001
 Delta R.T. -0.00 min
 Lab File: BF113095.D
 Acq: 18 Mar 2019 17:27

Tgt Ion:228 Resp: 518157
 Ion Ratio Lower Upper
 228 100
 226 27.7 22.2 33.4
 229 20.2 16.0 24.0





#83

Chrysene

Concen: 19.005 ng

RT: 13.89 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF113095.D

Acq: 18 Mar 2019 17:27

Instrument :

BNA_F

ClientSampleId :

SB-4(0.5-1.5)

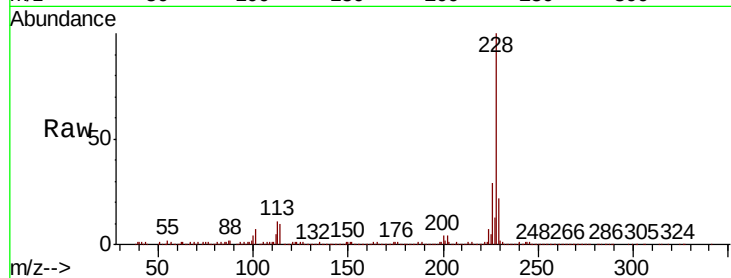
Tgt Ion:228 Resp: 475780

Ion Ratio Lower Upper

228 100

226 29.2 24.9 37.3

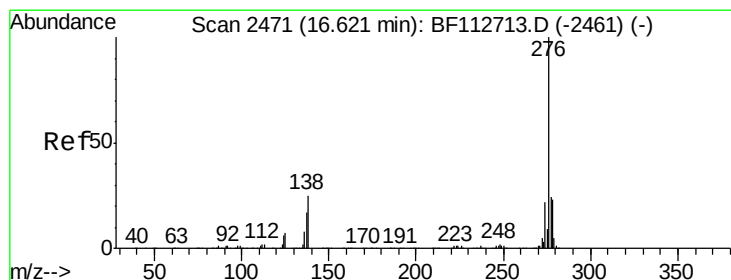
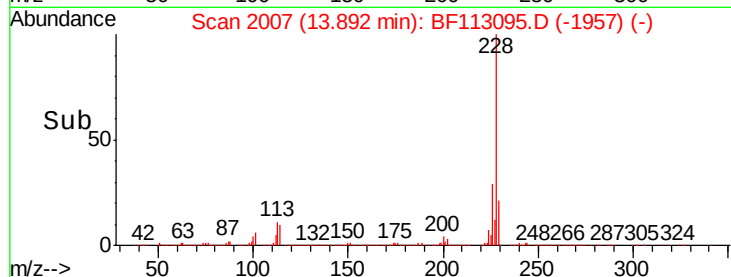
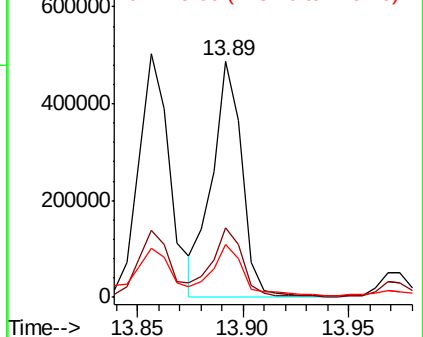
229 22.2 16.3 24.5



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



#86

Indeno(1,2,3-cd)pyrene

Concen: 9.419 ng

RT: 16.64 min Scan# 2474

Delta R.T. -0.00 min

Lab File: BF113095.D

Acq: 18 Mar 2019 17:27

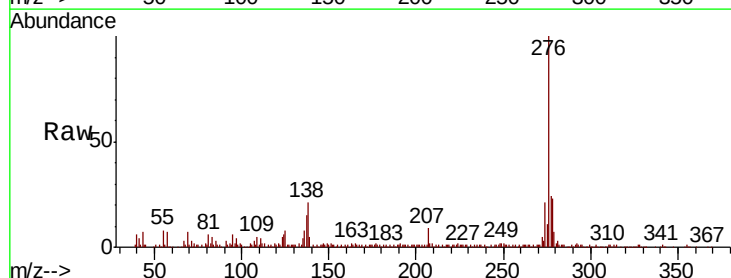
Tgt Ion:276 Resp: 201033

Ion Ratio Lower Upper

276 100

138 19.1 23.2 34.8#

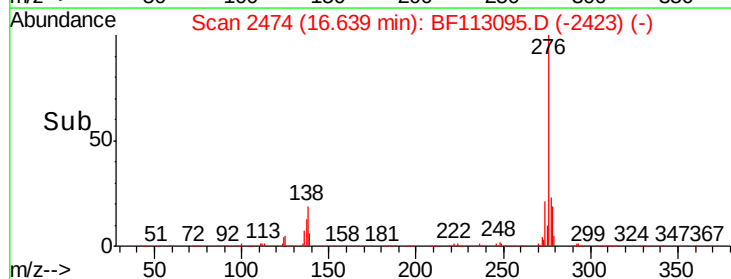
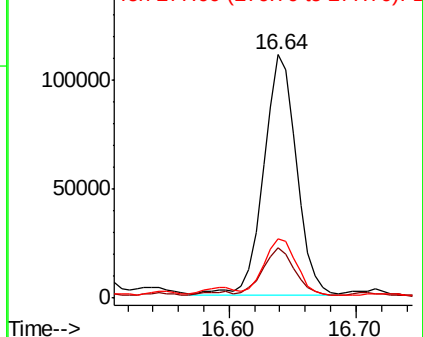
277 23.5 19.9 29.9

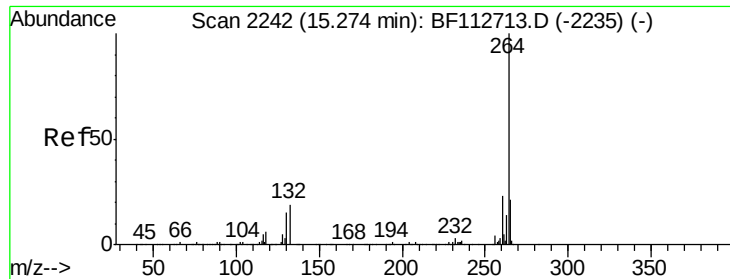


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

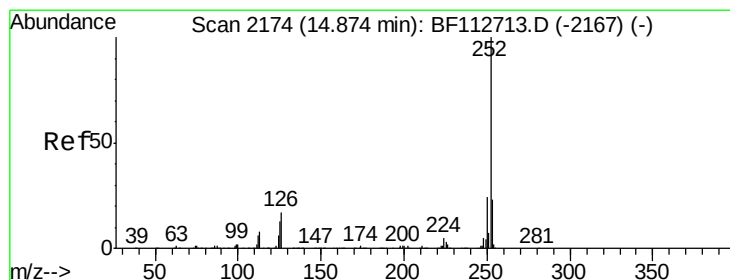
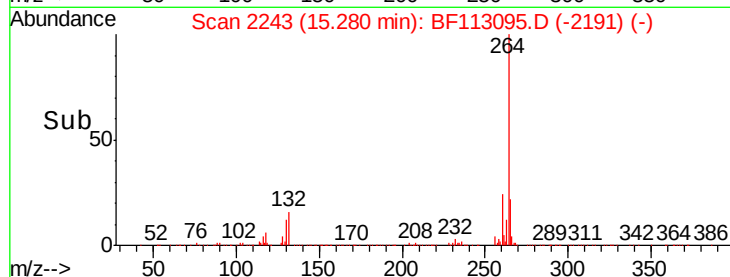
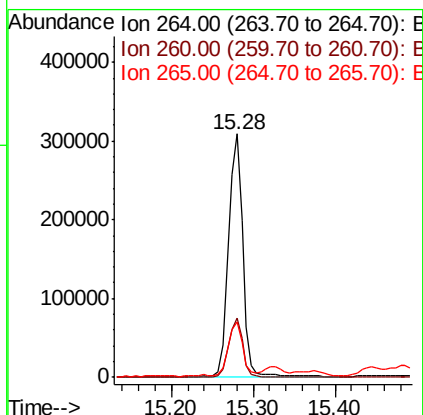
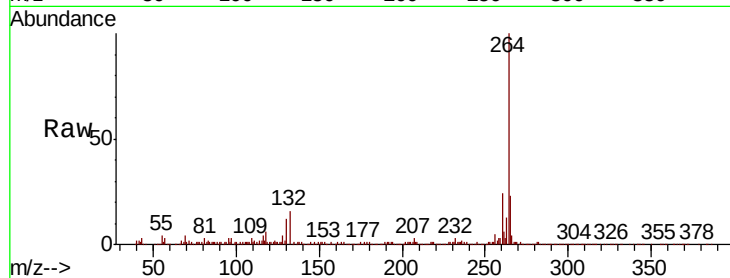




#87
Perylene-d12
Concen: 20.000 ng
RT: 15.28 min Scan# 2243
Delta R.T. 0.01 min
Lab File: BF113095.D
Acq: 18 Mar 2019 17:27

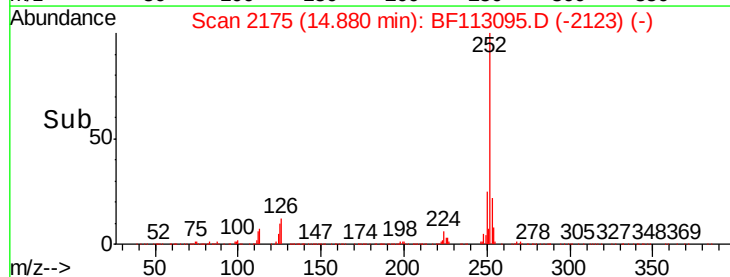
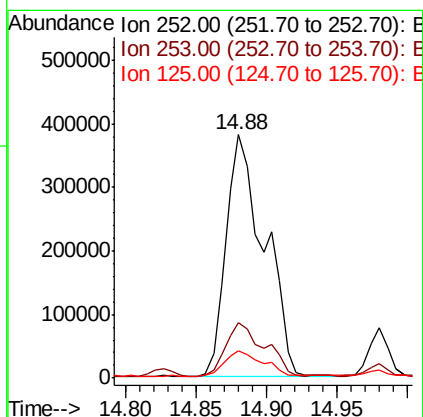
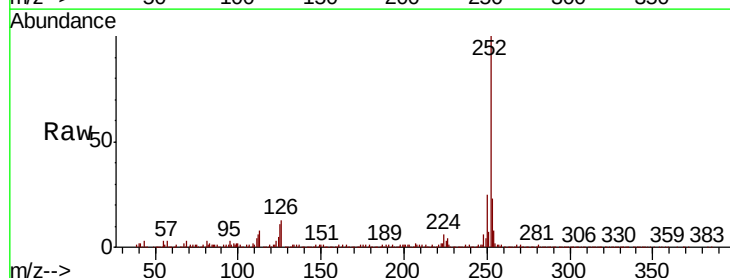
Instrument :
BNA_F
ClientSampleId :
SB-4(0.5-1.5)

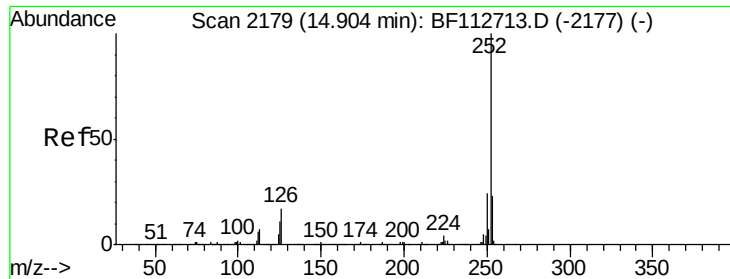
Tgt Ion:264 Resp: 374481
Ion Ratio Lower Upper
264 100
260 24.3 18.7 28.1
265 23.0 17.2 25.8



#88
Benzo(b)fluoranthene
Concen: 29.857 ng
RT: 14.88 min Scan# 2175
Delta R.T. 0.01 min
Lab File: BF113095.D
Acq: 18 Mar 2019 17:27

Tgt Ion:252 Resp: 723205
Ion Ratio Lower Upper
252 100
253 22.6 18.0 27.0
125 11.4 10.2 15.2

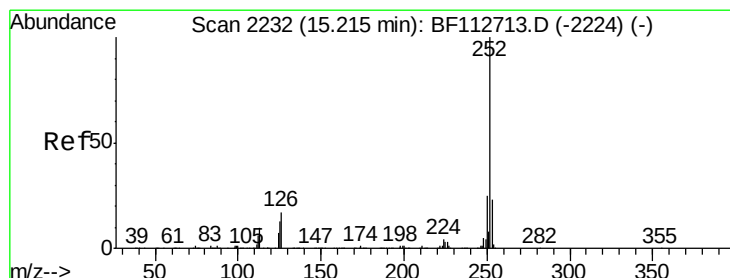
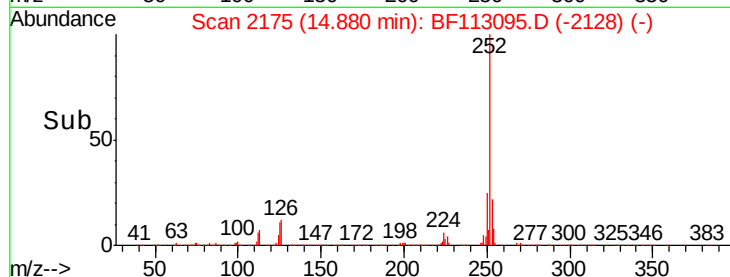
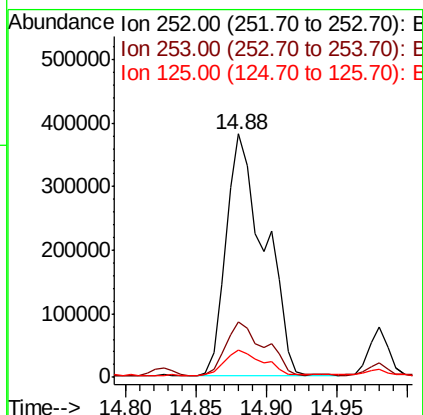
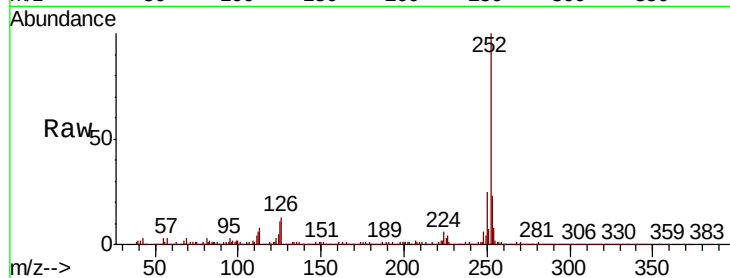




#89
Benzo(k)fluoranthene
Concen: 32.962 ng
RT: 14.88 min Scan# 2175
Delta R.T. -0.02 min
Lab File: BF113095.D
Acq: 18 Mar 2019 17:27

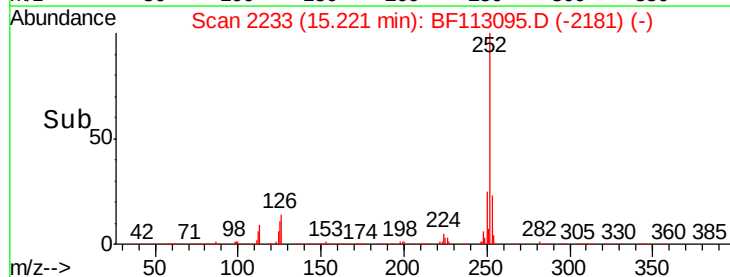
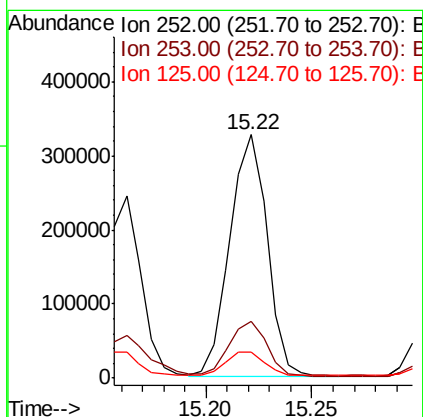
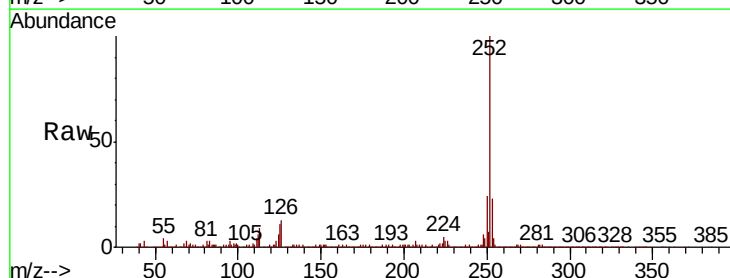
Instrument :
BNA_F
ClientSampleId :
SB-4(0.5-1.5)

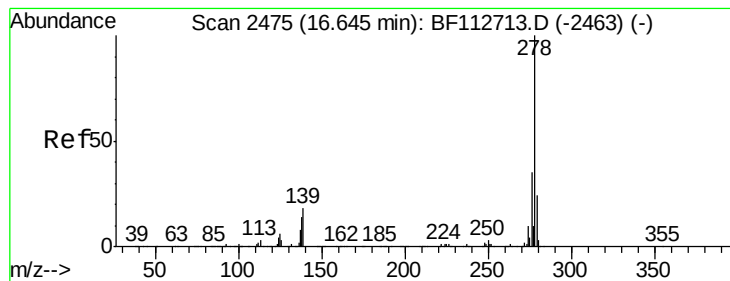
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.2	27.2
125	11.4	9.8	14.6



#90
Benzo(a)pyrene
Concen: 18.835 ng
RT: 15.22 min Scan# 2233
Delta R.T. 0.01 min
Lab File: BF113095.D
Acq: 18 Mar 2019 17:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.0	27.0
125	10.9	10.7	16.1





#91

Dibenzo(a,h)anthracene

Concen: 3.232 ng

RT: 16.64 min Scan# 2475

Delta R.T. -0.01 min

Lab File: BF113095.D

Acq: 18 Mar 2019 17:27

Instrument :

BNA_F

ClientSampleId :

SB-4(0.5-1.5)

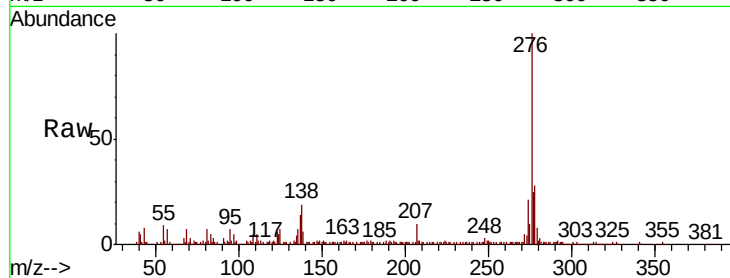
Tgt Ion: 278 Resp: 59084

Ion Ratio Lower Upper

278 100

139 19.9 14.3 21.5

279 27.5 19.4 29.0

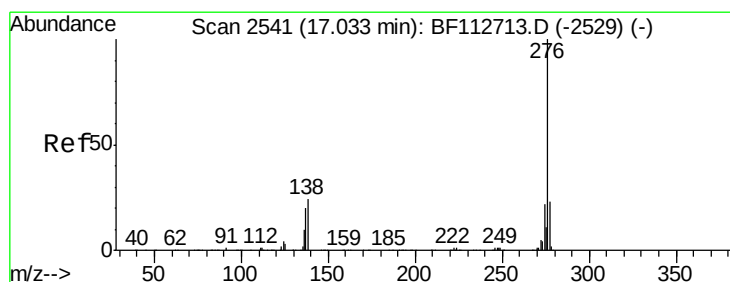
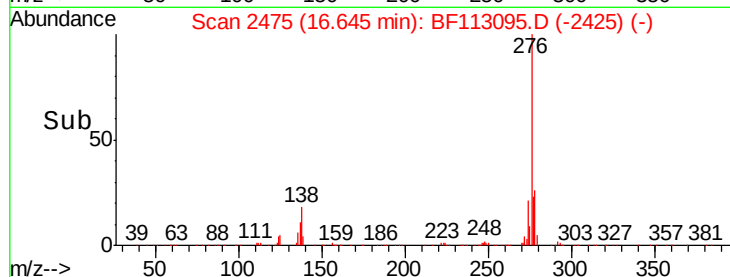
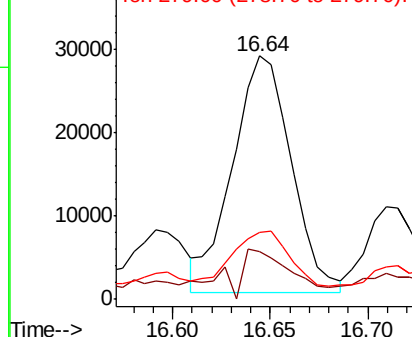


Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92

Benzo(g,h,i)perylene

Concen: 10.085 ng

RT: 17.05 min Scan# 2544

Delta R.T. 0.01 min

Lab File: BF113095.D

Acq: 18 Mar 2019 17:27

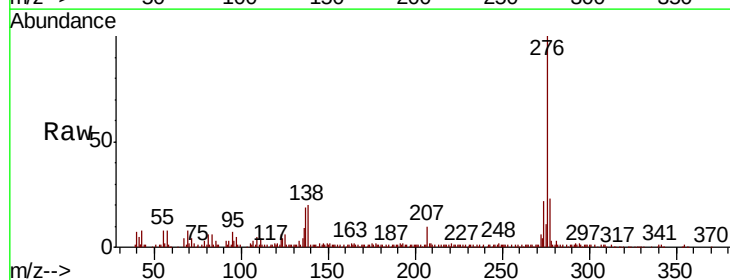
Tgt Ion: 276 Resp: 185134

Ion Ratio Lower Upper

276 100

277 23.1 18.6 27.8

138 19.9 19.4 29.0



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

