

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF070916\
 Data File : BF088895.D
 Acq On : 10 Jul 2016 3:21
 Operator : UM/SJ
 Sample : H3889-10RE 4X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SS-10

Quant Time: Jul 11 04:39:37 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 08 18:51:20 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	26735	20.00	ng	0.15
21) Naphthalene-d8	8.00	136	296112	20.00	ng	-0.02
38) Acenaphthene-d10	9.75	164	128797	20.00	ng	-0.02
63) Phenanthrene-d10	11.23	188	204066	20.00	ng	-0.01
75) Chrysene-d12	13.86	240	139057	20.00	ng	-0.01
86) Perylene-d12	15.25	264	159620	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	56879	31.89	ng	-0.02
7) Phenol-d6	6.35	99	92922	40.31	ng	-0.02
23) Nitrobenzene-d5	7.28	82	59216	10.48	ng	-0.02
41) 2,4,6-Tribromophenol	10.54	330	28435	23.77	ng	-0.02
44) 2-Fluorobiphenyl	9.08	172	125523	15.39	ng	-0.01
78) Terphenyl-d14	12.81	244	102328	16.39	ng	-0.01
Target Compounds						Qvalue
15) Benzyl Alcohol	6.86	79	3486	2.05	ng	# 86
19) n-Nitroso-di-n-propylamine	7.28	70	7642	4.94	ng	# 70
25) Isophorone	7.28	82	51442	4.91	ng	# 65
49) Dimethylphthalate	9.47	163	107614	11.73	ng	99
56) 2,4-Dinitrotoluene	9.75	165	16199	6.09	ng	# 38
74) Fluoranthene	12.43	202	44851	3.97	ng	90
77) Pyrene	12.66	202	40098	3.40	ng	# 90
80) Benzo(a)anthracene	13.85	228	19601	2.19	ng	# 83
82) Chrysene	13.85	228	19601	2.21	ng	# 88
83) Bis(2-ethylhexyl)phthalate	13.86	149	34805	5.80	ng	93
85) Indeno(1,2,3-cd)pyrene	16.54	276	36537	5.36	ng	# 100
87) Benzo(b)fluoranthene	14.87	252	64438	6.44	ng	# 73
88) Benzo(k)fluoranthene	14.87	252	64438	7.39	ng	# 74
89) Benzo(a)pyrene	15.19	252	24583	2.90	ng	# 57
91) Benzo(g,h,i)perylene	16.93	276	35656	4.87	ng	95

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

```
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Data File : BF088895.D  
Acq On    : 10 Jul 2016    3:21  
Operator  : UM/SJ  
Sample    : H3889-10RE 4X  
Misc      :  
ALS Vial  : 30    Sample Multiplier: 1
```

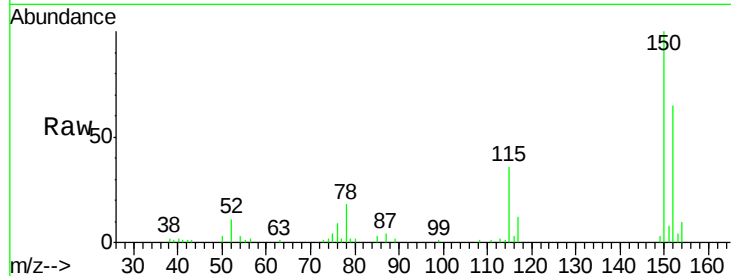


#1

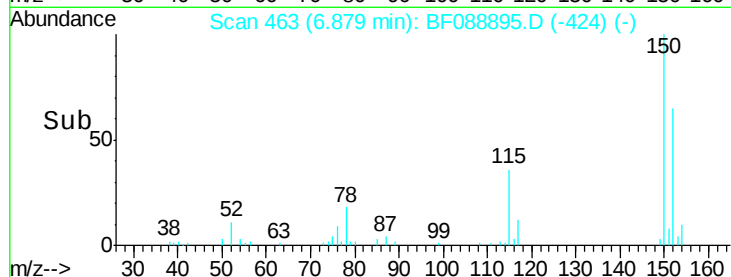
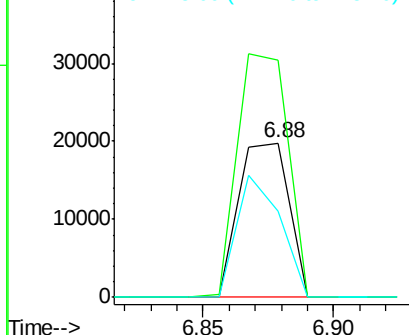
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.88 min Scan# 463
Delta R.T. 0.15 min
Lab File: BF088895.D
Acq: 10 Jul 2016 3:21

Instrument :
BNA_F
ClientSampleId :
SS-10

Tgt Ion:152 Resp: 26735
Ion Ratio Lower Upper
152 100
150 153.8 123.8 185.6
115 56.1 39.6 59.4



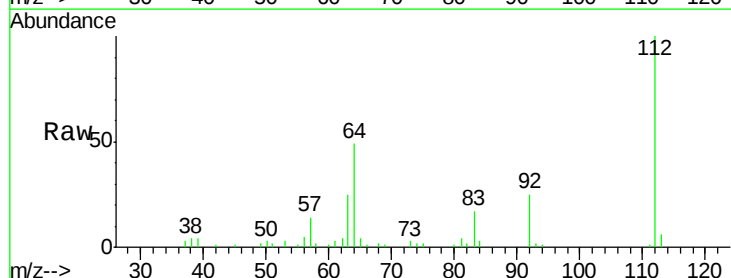
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



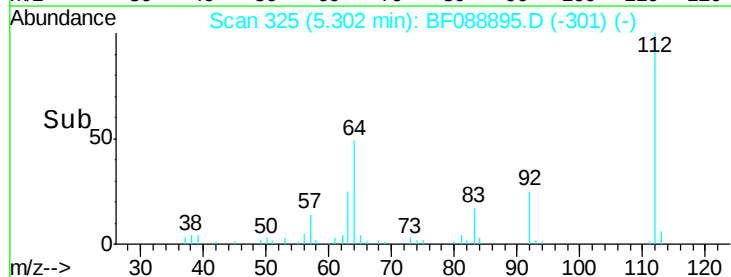
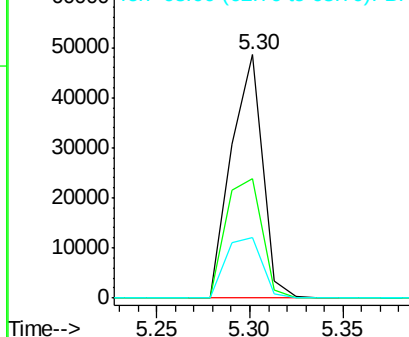
#5

2-Fluorophenol
Concen: 31.89 ng
RT: 5.30 min Scan# 325
Delta R.T. -0.02 min
Lab File: BF088895.D
Acq: 10 Jul 2016 3:21

Tgt Ion:112 Resp: 56879
Ion Ratio Lower Upper
112 100
64 48.9 42.2 63.2
63 25.0 21.8 32.8



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 40.31 ng

RT: 6.35 min Scan# 417

Delta R.T. -0.02 min

Lab File: BF088895.D

Acq: 10 Jul 2016 3:21

Instrument :

BNA_F

ClientSampleId :

SS-10

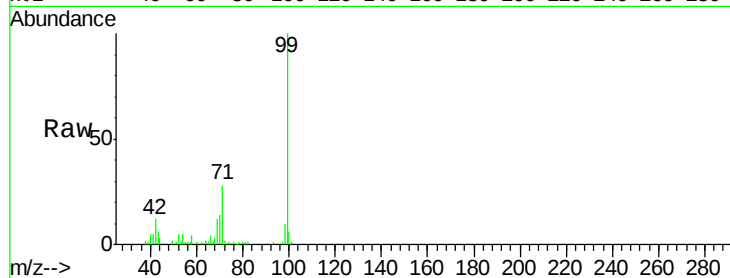
Tgt Ion: 99 Resp: 92922

Ion Ratio Lower Upper

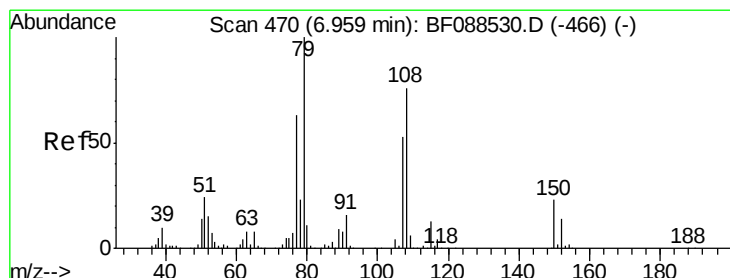
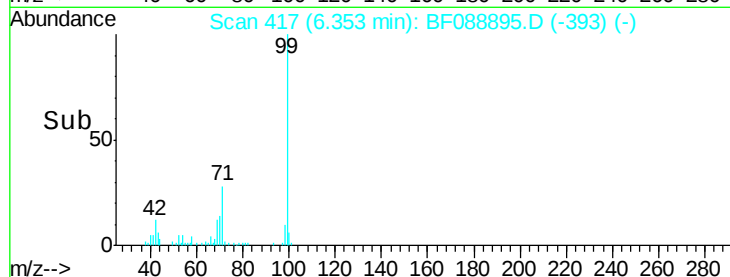
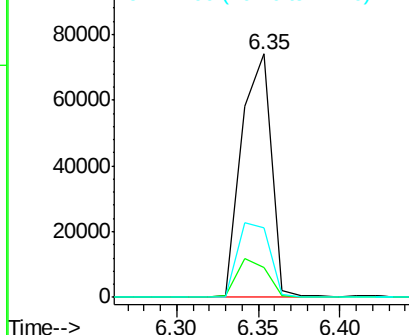
99 100

42 12.2 12.2 18.2

71 28.5 23.4 35.0



Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#15

Benzyl Alcohol

Concen: 2.05 ng

RT: 6.86 min Scan# 461

Delta R.T. -0.02 min

Lab File: BF088895.D

Acq: 10 Jul 2016 3:21

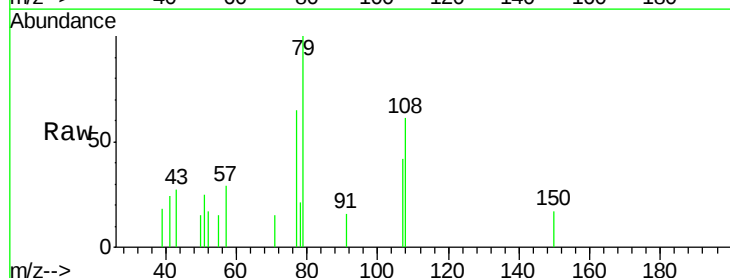
Tgt Ion: 79 Resp: 3486

Ion Ratio Lower Upper

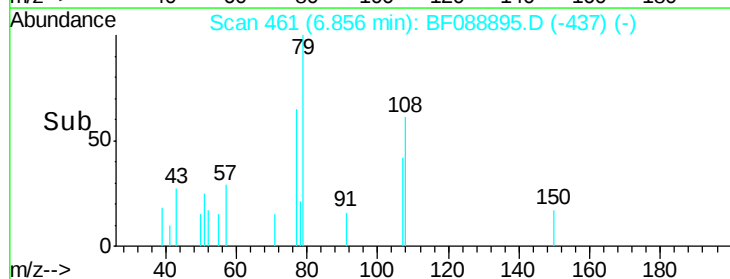
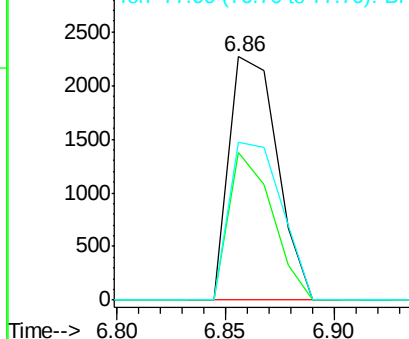
79 100

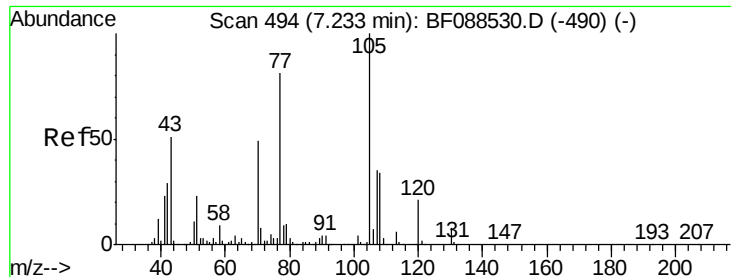
108 60.6 65.0 97.6#

77 65.1 50.3 75.5



Abundance Ion 79.00 (78.70 to 79.70): BF0
Ion 108.00 (107.70 to 108.70): BF0
Ion 77.00 (76.70 to 77.70): BF0

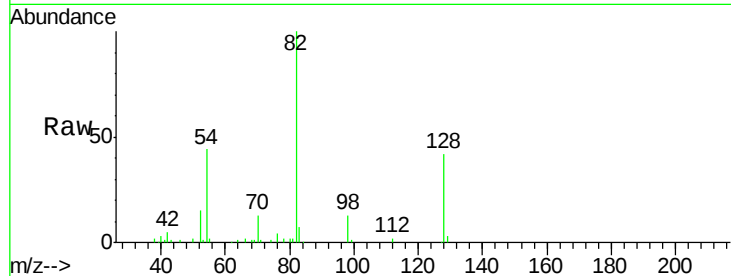




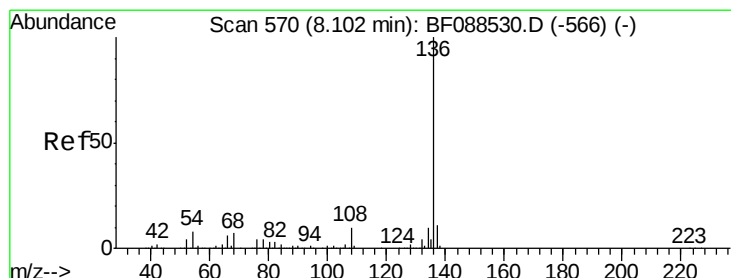
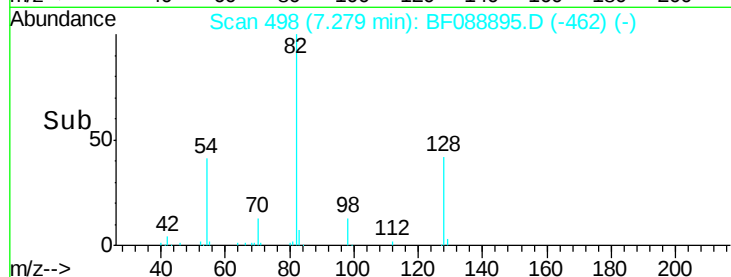
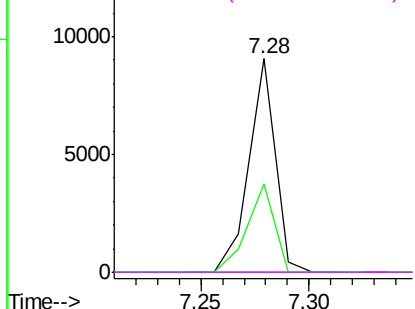
#19
 n-Nitroso-di-n-propylamine
 Concen: 4.94 ng
 RT: 7.28 min Scan# 498
 Delta R.T. 0.11 min
 Lab File: BF088895.D
 Acq: 10 Jul 2016 3:21

Instrument :
 BNA_F
 ClientSampleId :
 SS-10

Tgt Ion: 70 Resp: 7642
 Ion Ratio Lower Upper
 70 100
 42 41.2 49.6 74.4#
 101 0.0 7.1 10.7#
 130 0.0 15.4 23.2#

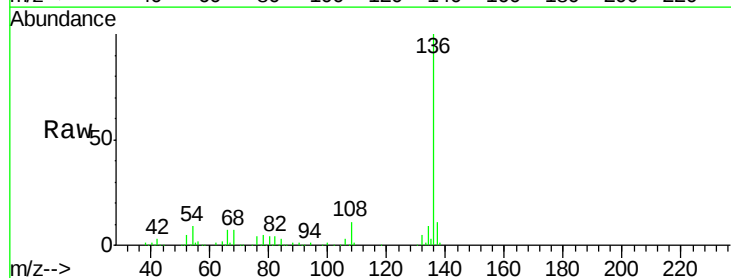


Abundance Ion 70.00 (69.70 to 70.70): BF0
 Ion 42.00 (41.70 to 42.70): BF0
 Ion 101.00 (100.70 to 101.70): E
 Ion 130.00 (129.70 to 130.70): E

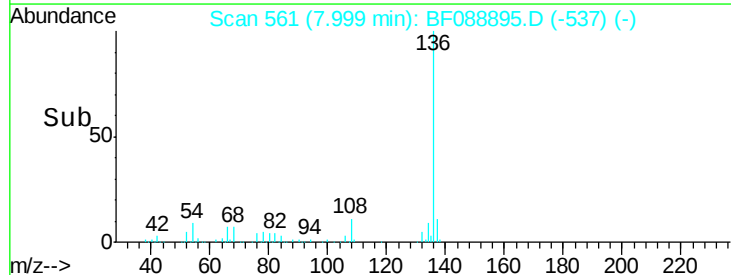
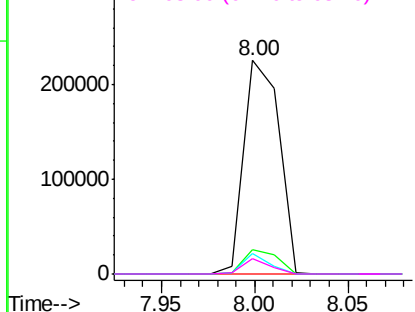


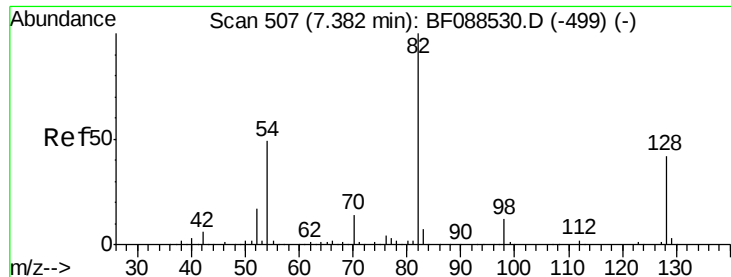
#21
 Naphthalene-d8
 Concen: 20.00 ng
 RT: 8.00 min Scan# 561
 Delta R.T. -0.02 min
 Lab File: BF088895.D
 Acq: 10 Jul 2016 3:21

Tgt Ion: 136 Resp: 296112
 Ion Ratio Lower Upper
 136 100
 137 11.2 9.1 13.7
 54 9.4 6.6 10.0
 68 7.2 5.1 7.7



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): BF0
 Ion 68.00 (67.70 to 68.70): BF0

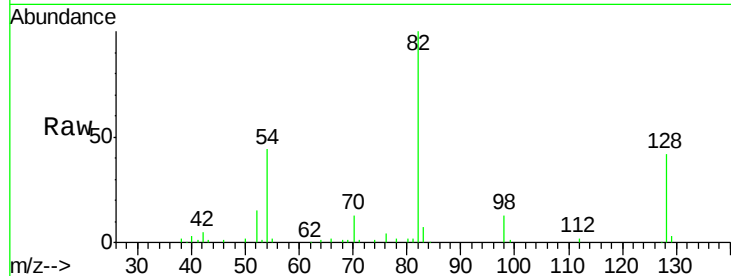




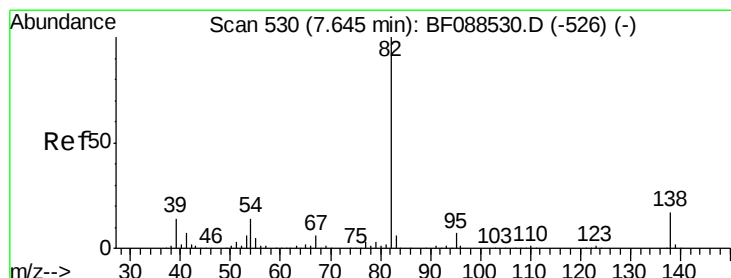
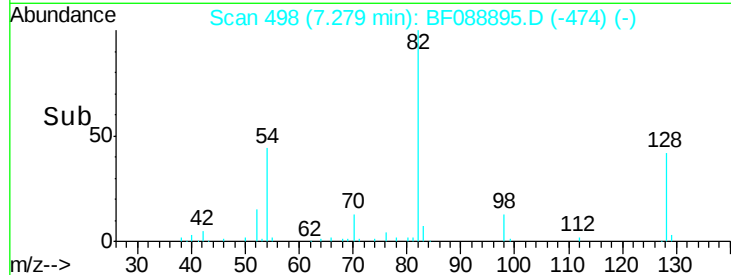
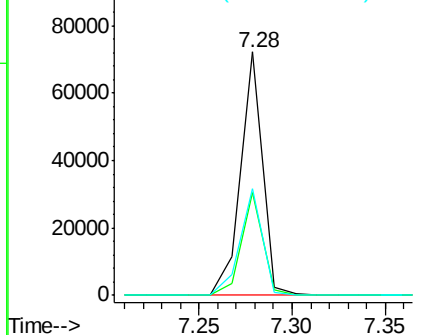
#23
 Nitrobenzene-d5
 Concen: 10.48 ng
 RT: 7.28 min Scan# 498
 Delta R.T. -0.02 min
 Lab File: BF088895.D
 Acq: 10 Jul 2016 3:21

Instrument :
 BNA_F
 ClientSampleId :
 SS-10

Tgt Ion	Ratio	Lower	Upper
82	100		
128	42.2	35.9	53.9
54	43.7	40.9	61.3

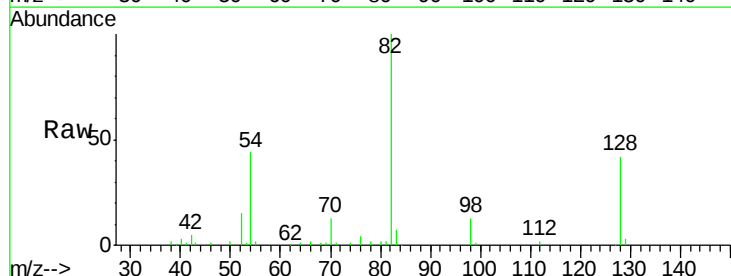


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): BF0
 Ion 54.00 (53.70 to 54.70): BF0

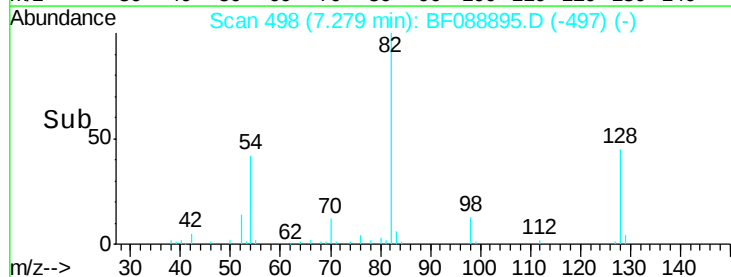
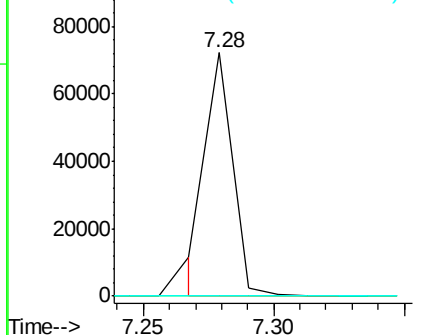


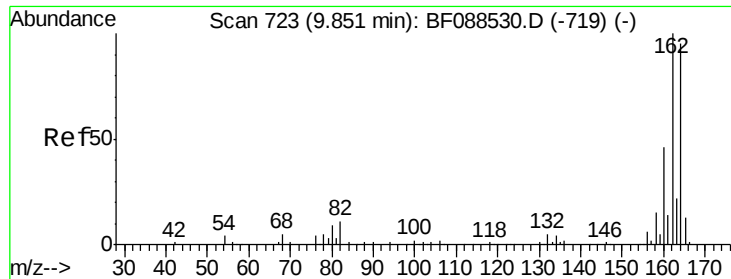
#25
 Isophorone
 Concen: 4.91 ng
 RT: 7.28 min Scan# 498
 Delta R.T. -0.29 min
 Lab File: BF088895.D
 Acq: 10 Jul 2016 3:21

Tgt Ion	Ratio	Lower	Upper
82	100		
95	0.0	5.4	8.2#
138	0.0	14.6	21.8#



Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 95.00 (94.70 to 95.70): BF0
 Ion 138.00 (137.70 to 138.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.75 min Scan# 714

Delta R.T. -0.02 min

Lab File: BF088895.D

Acq: 10 Jul 2016 3:21

Instrument :

BNA_F

ClientSampled :

SS-10

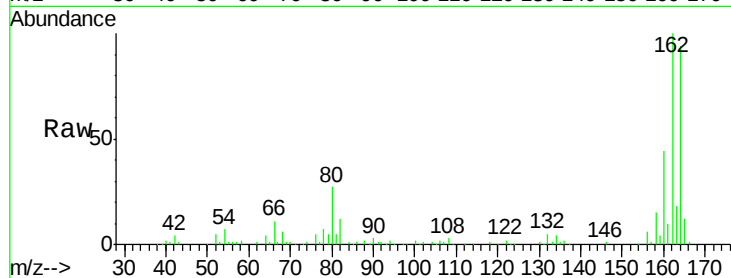
Tgt Ion:164 Resp: 128797

Ion Ratio Lower Upper

164 100

162 106.1 85.4 128.2

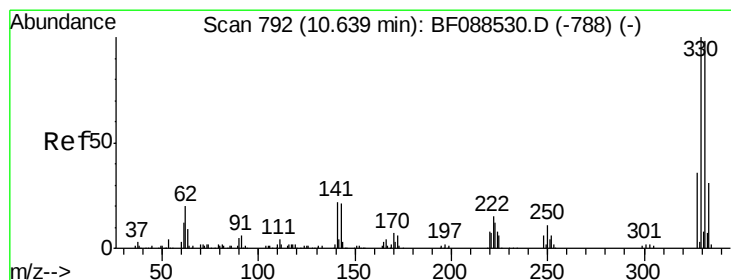
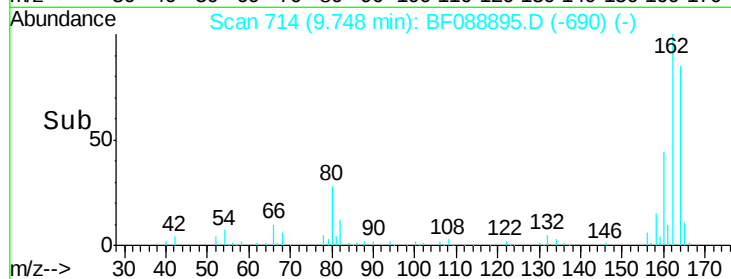
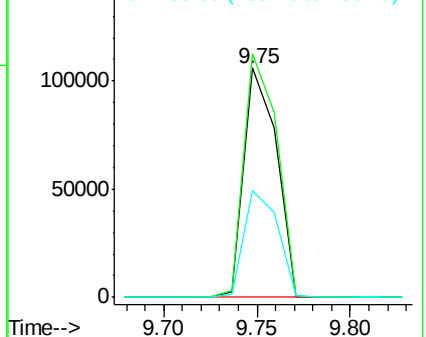
160 46.6 39.5 59.3



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



#41

2,4,6-Tribromophenol

Concen: 23.77 ng

RT: 10.54 min Scan# 783

Delta R.T. -0.02 min

Lab File: BF088895.D

Acq: 10 Jul 2016 3:21

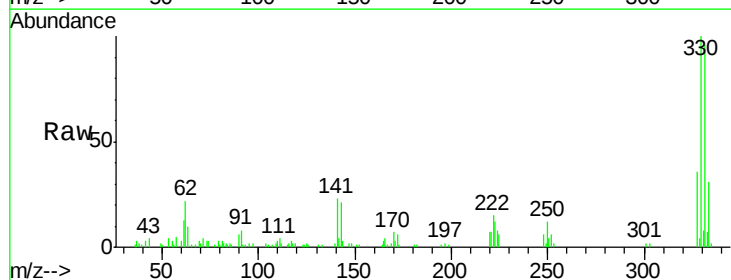
Tgt Ion:330 Resp: 28435

Ion Ratio Lower Upper

330 100

332 95.1 0.0 0.0#

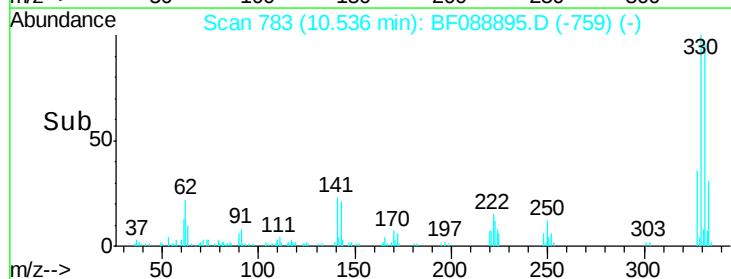
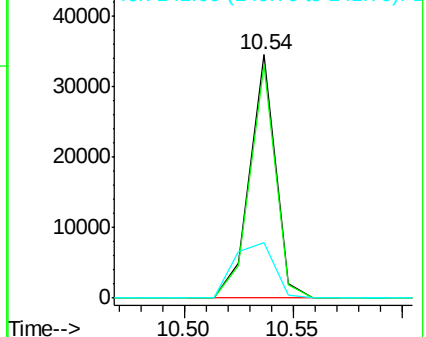
141 35.8 0.0 0.0#

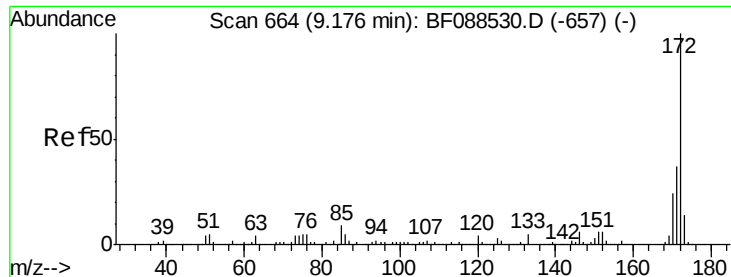


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

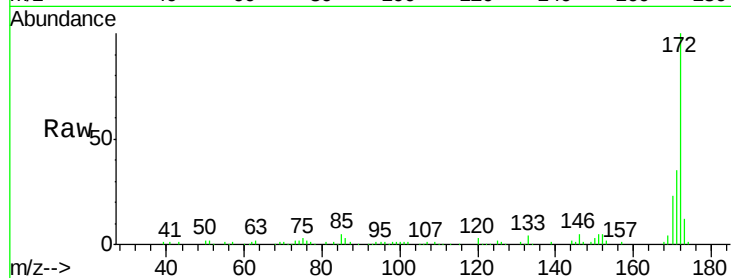




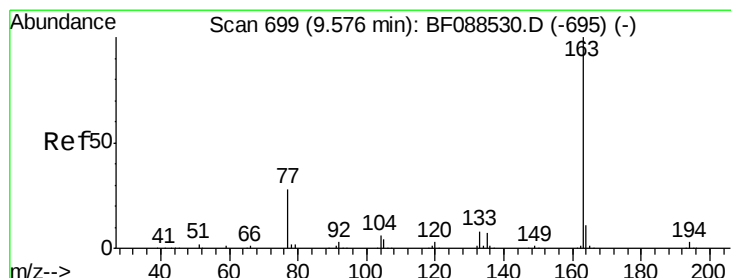
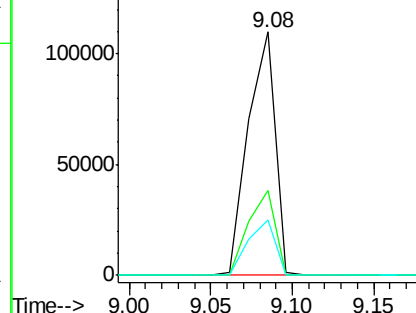
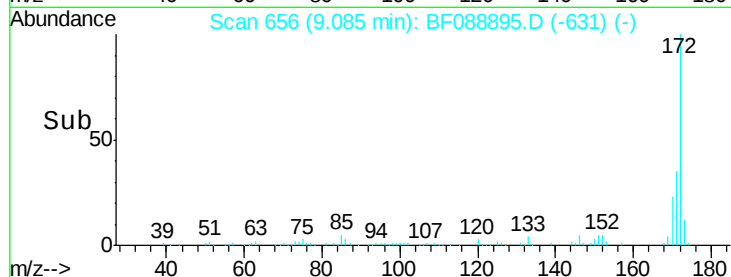
#44
2-Fluorobiphenyl
Concen: 15.39 ng
RT: 9.08 min Scan# 656
Delta R.T. -0.01 min
Lab File: BF088895.D
Acq: 10 Jul 2016 3:21

Instrument :
BNA_F
ClientSampled :
SS-10

Tgt Ion:172 Resp: 125523
Ion Ratio Lower Upper
172 100
171 34.9 28.6 43.0
170 22.8 19.2 28.8

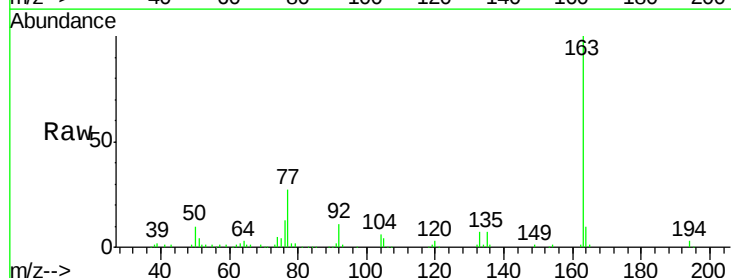


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

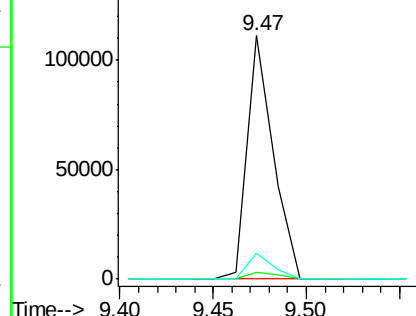
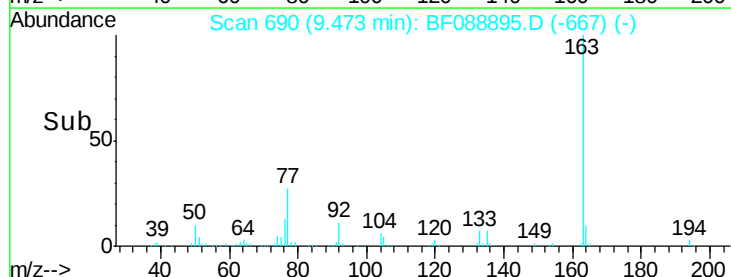


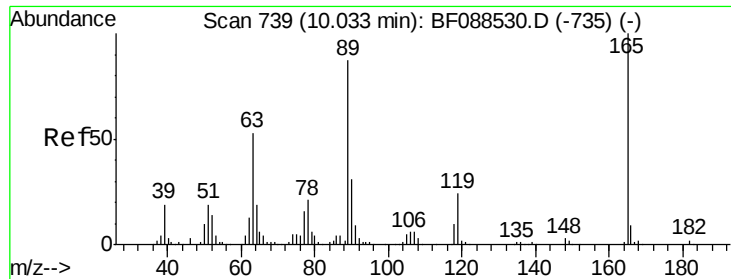
#49
Dimethylphthalate
Concen: 11.73 ng
RT: 9.47 min Scan# 690
Delta R.T. -0.03 min
Lab File: BF088895.D
Acq: 10 Jul 2016 3:21

Tgt Ion:163 Resp: 107614
Ion Ratio Lower Upper
163 100
194 2.8 2.8 4.2
164 10.5 8.3 12.5



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

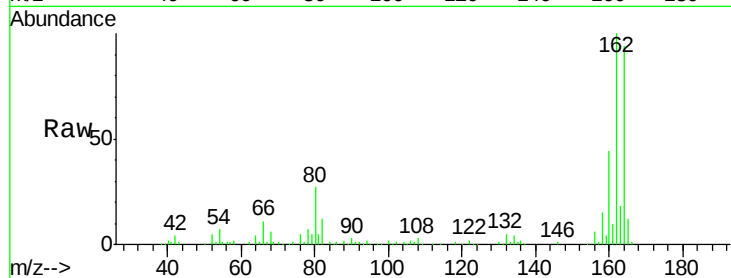




#56
2,4-Dinitrotoluene
Concen: 6.09 ng
RT: 9.75 min Scan# 714
Delta R.T. -0.21 min
Lab File: BF088895.D
Acq: 10 Jul 2016 3:21

Instrument :
BNA_F
ClientSampleId :
SS-10

Tgt Ion:	165	Resp:	16199
Ion Ratio	Lower	Upper	
165	100		
63	0.0	22.0	33.0#
89	2.2	41.1	61.7#
182	0.0	2.0	3.0#

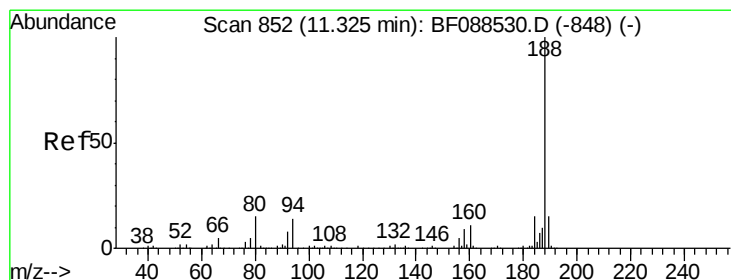
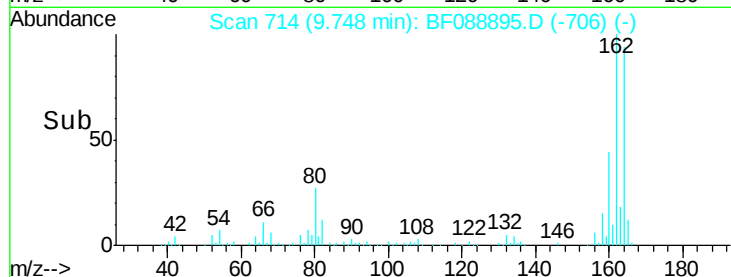
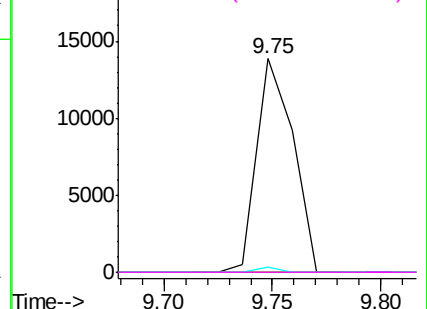


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

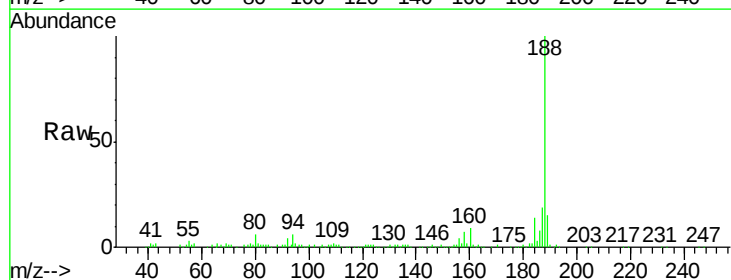
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.23 min Scan# 844
Delta R.T. -0.01 min
Lab File: BF088895.D
Acq: 10 Jul 2016 3:21

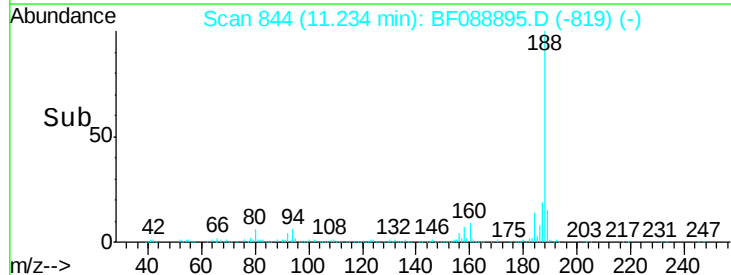
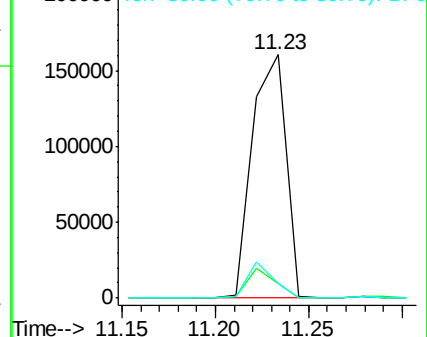
Tgt Ion:	188	Resp:	204066
Ion Ratio	Lower	Upper	
188	100		
94	6.1	9.0	13.6#
80	6.1	10.0	15.0#

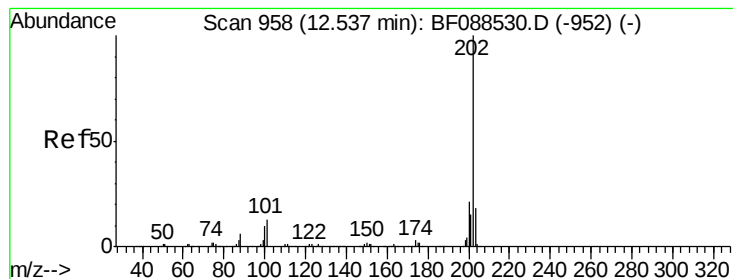


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#74

Fluoranthene

Concen: 3.97 ng

RT: 12.43 min Scan# 949

Delta R.T. -0.01 min

Lab File: BF088895.D

Acq: 10 Jul 2016 3:21

Instrument :

BNA_F

ClientSampleId :

SS-10

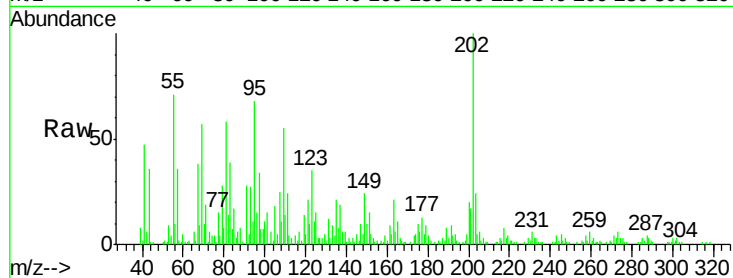
Tgt Ion:202 Resp: 44851

Ion Ratio Lower Upper

202 100

101 14.8 0.0 33.1

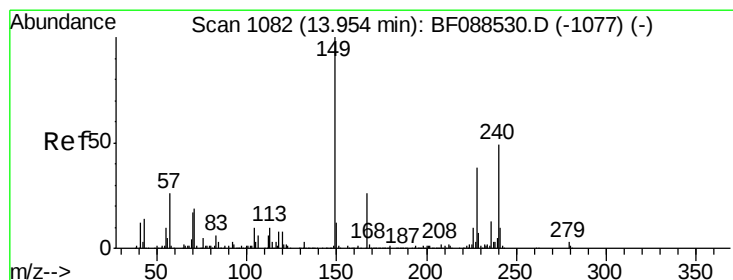
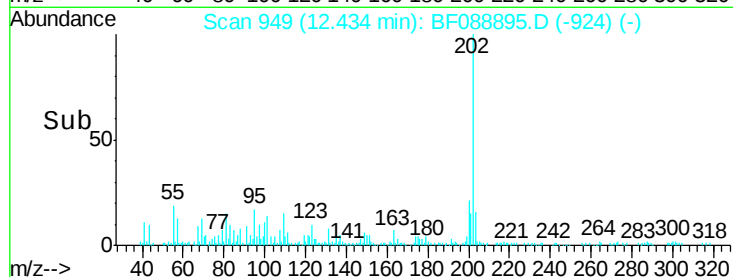
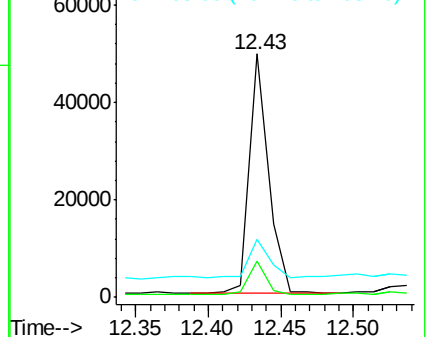
203 24.1 0.0 38.1



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



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.86 min Scan# 1074

Delta R.T. -0.01 min

Lab File: BF088895.D

Acq: 10 Jul 2016 3:21

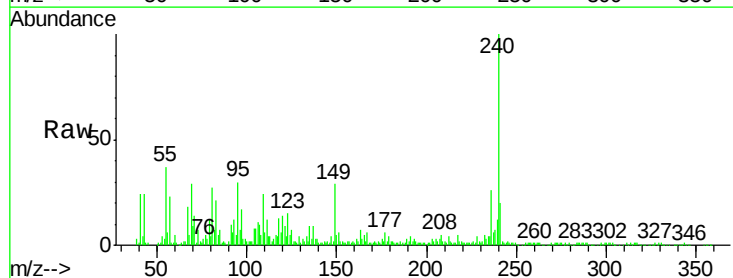
Tgt Ion:240 Resp: 139057

Ion Ratio Lower Upper

240 100

120 14.5 6.8 10.2#

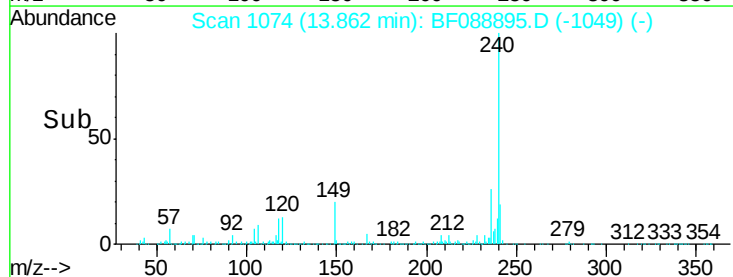
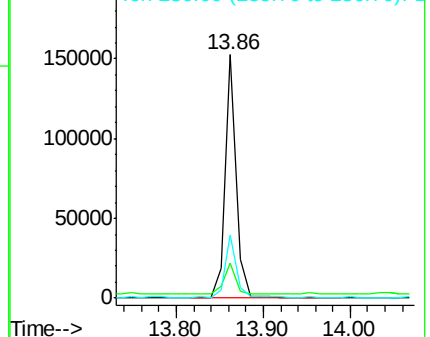
236 26.0 20.2 30.2

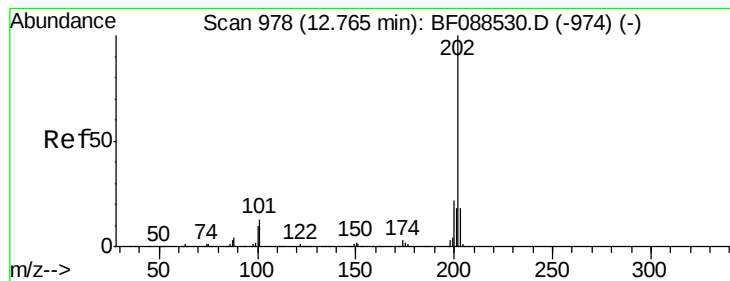


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 3.40 ng

RT: 12.66 min Scan# 969

Delta R.T. -0.01 min

Lab File: BF088895.D

Acq: 10 Jul 2016 3:21

Instrument :

BNA_F

ClientSampleId :

SS-10

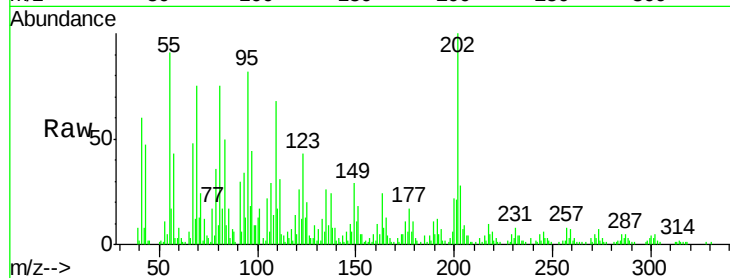
Tgt Ion:202 Resp: 40098

Ion Ratio Lower Upper

202 100

200 22.2 17.4 26.2

203 27.7 14.5 21.7#

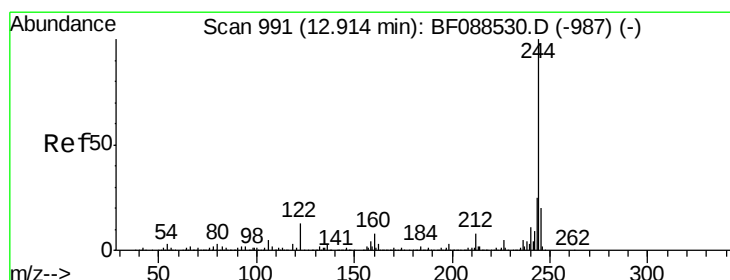
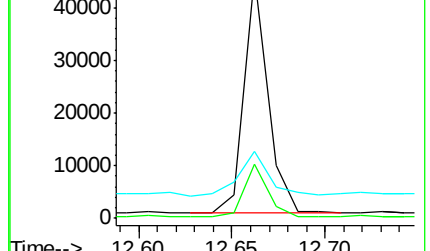
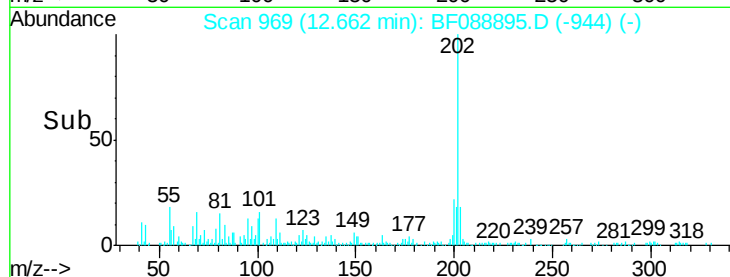


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

Time-->



#78

Terphenyl-d14

Concen: 16.39 ng

RT: 12.81 min Scan# 982

Delta R.T. -0.01 min

Lab File: BF088895.D

Acq: 10 Jul 2016 3:21

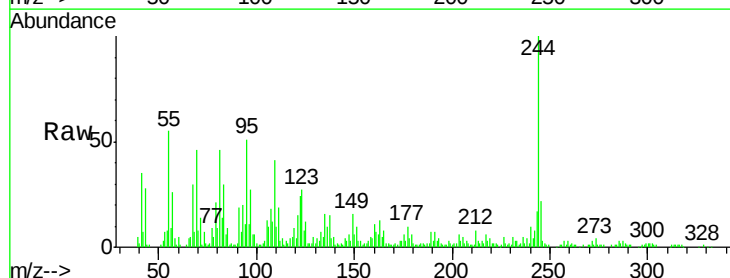
Tgt Ion:244 Resp: 102328

Ion Ratio Lower Upper

244 100

212 7.8 6.0 9.0

122 24.2 11.2 16.8#

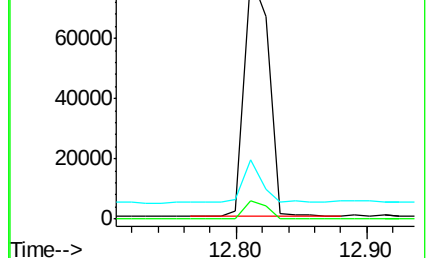
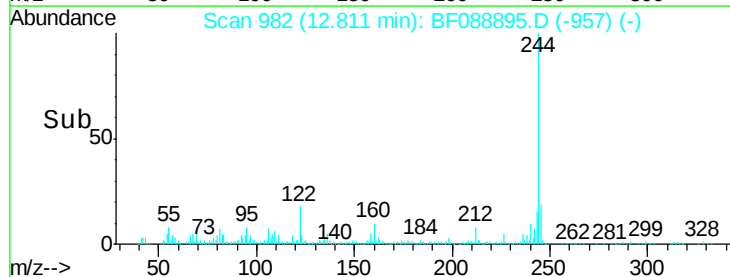


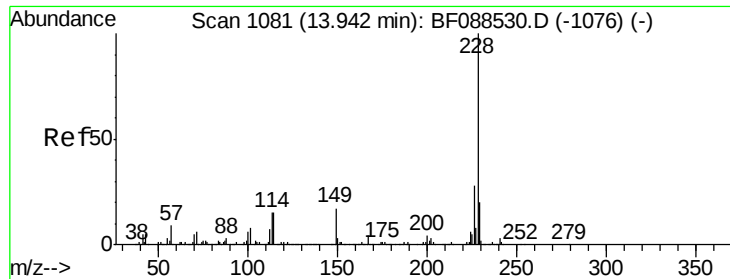
Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

Time-->





#80

Benzo(a)anthracene

Concen: 2.19 ng

RT: 13.85 min Scan# 1073

Delta R.T. 0.00 min

Lab File: BF088895.D

Acq: 10 Jul 2016 3:21

Instrument :

BNA_F

ClientSampleId :

SS-10

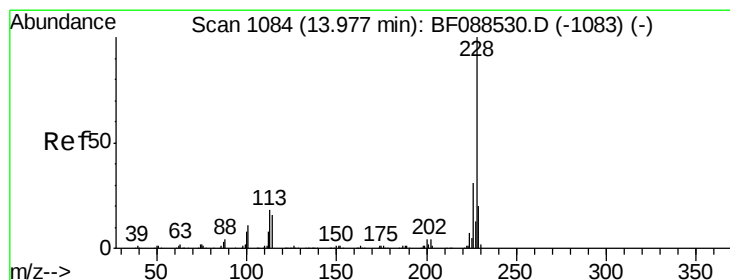
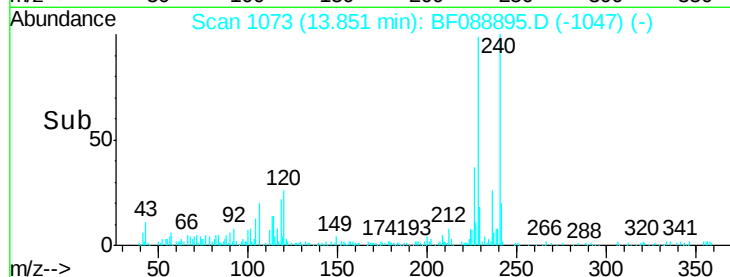
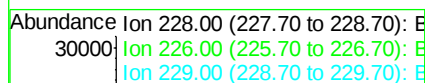
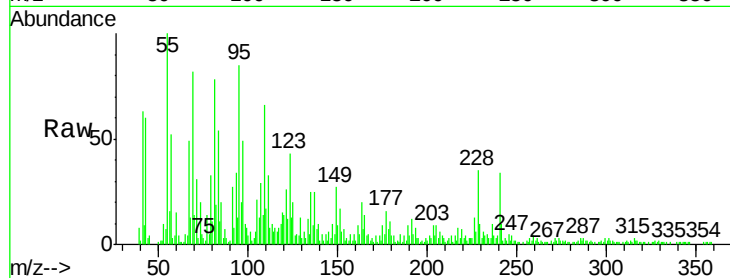
Tgt Ion:228 Resp: 19601

Ion Ratio Lower Upper

228 100

226 36.3 22.3 33.5#

229 28.3 16.0 24.0#



#82

Chrysene

Concen: 2.21 ng

RT: 13.85 min Scan# 1073

Delta R.T. -0.05 min

Lab File: BF088895.D

Acq: 10 Jul 2016 3:21

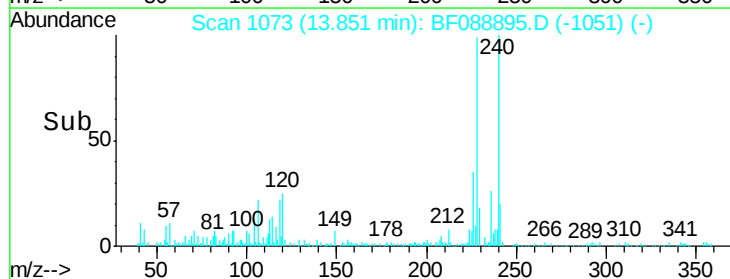
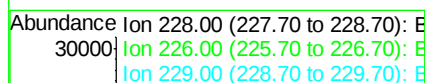
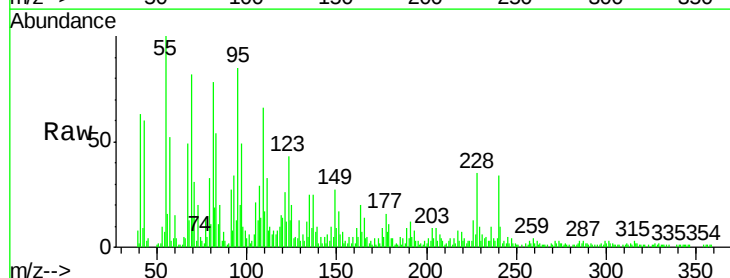
Tgt Ion:228 Resp: 19601

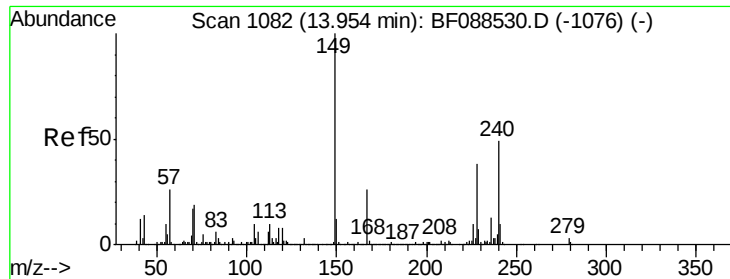
Ion Ratio Lower Upper

228 100

226 36.3 25.4 38.2

229 28.3 16.3 24.5#

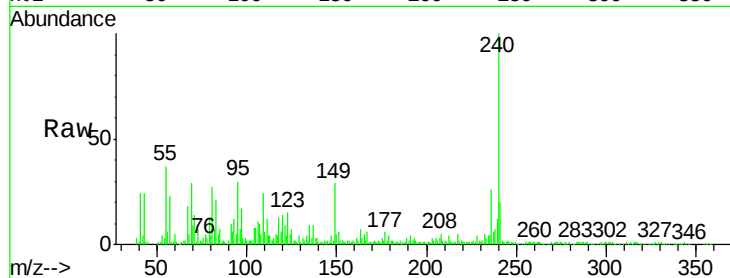




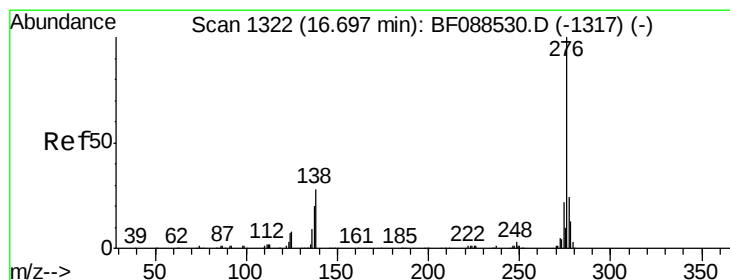
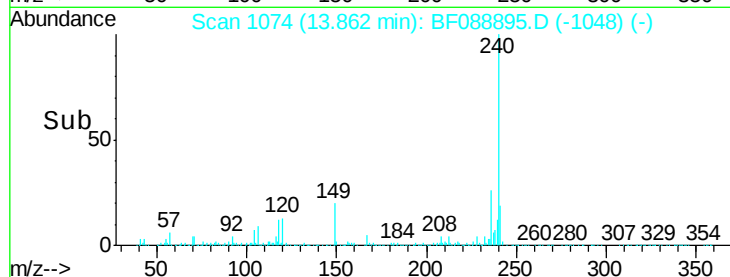
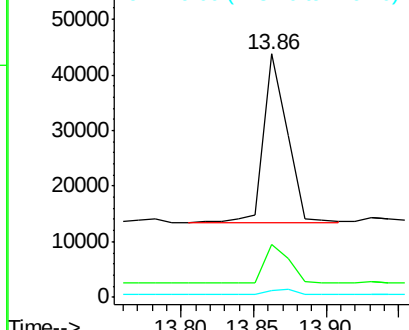
#83
Bis(2-ethylhexyl)phthalate
Concen: 5.80 ng
RT: 13.86 min Scan# 1074
Delta R.T. 0.00 min
Lab File: BF088895.D
Acq: 10 Jul 2016 3:21

Instrument :
BNA_F
ClientSampleId :
SS-10

Tgt Ion:149 Resp: 34805
Ion Ratio Lower Upper
149 100
167 21.7 20.5 30.7
279 2.8 2.0 3.0

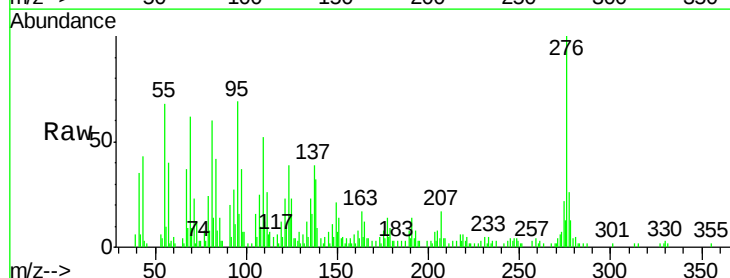


Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E

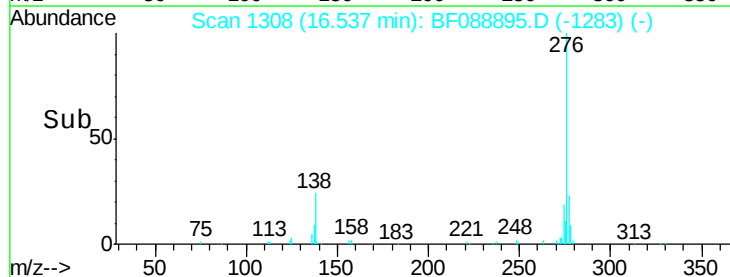
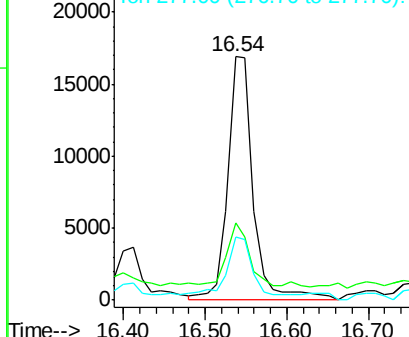


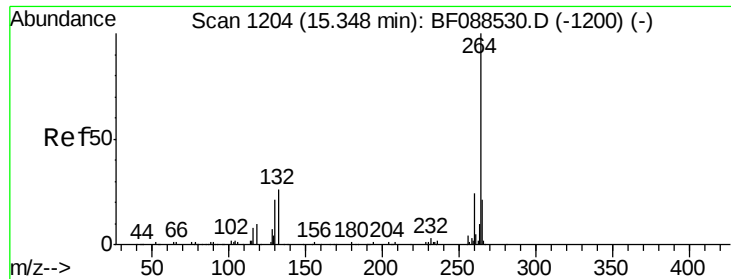
#85
Indeno(1,2,3-cd)pyrene
Concen: 5.36 ng
RT: 16.54 min Scan# 1308
Delta R.T. -0.01 min
Lab File: BF088895.D
Acq: 10 Jul 2016 3:21

Tgt Ion:276 Resp: 36537
Ion Ratio Lower Upper
276 100
138 21.8 0.0 0.0#
277 23.5 0.0 0.0#



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



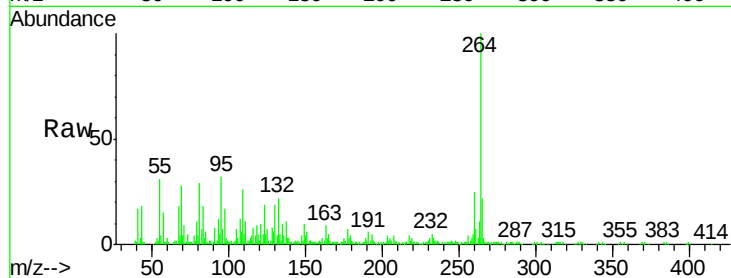


#86
Perylene-d12
Concen: 20.00 ng
RT: 15.25 min Scan# 1195
Delta R.T. 0.00 min
Lab File: BF088895.D
Acq: 10 Jul 2016 3:21

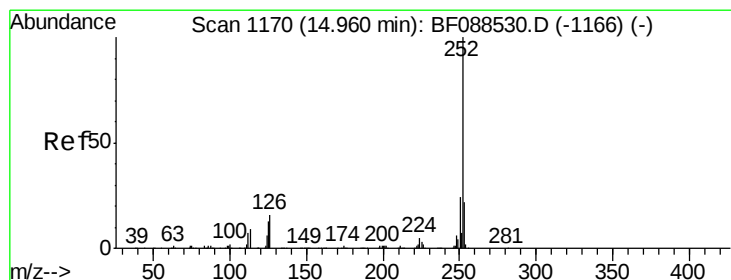
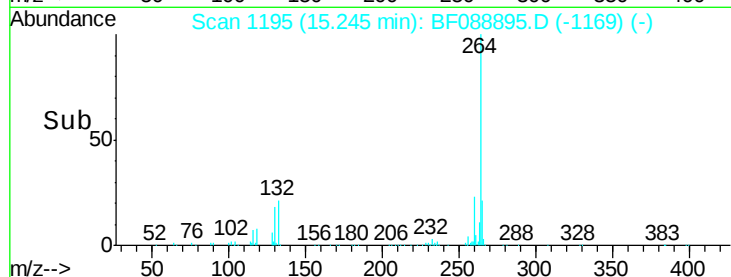
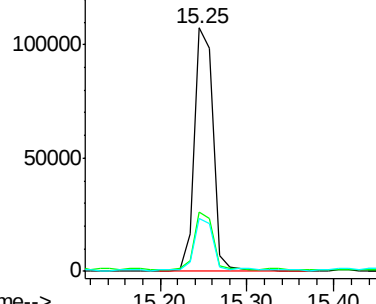
Instrument :
BNA_F
ClientSampleId :
SS-10

Tgt Ion: 264 Resp: 159620

Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.2	28.8
265	21.9	16.9	25.3



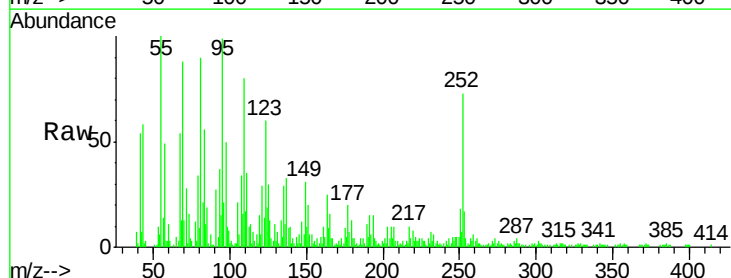
Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



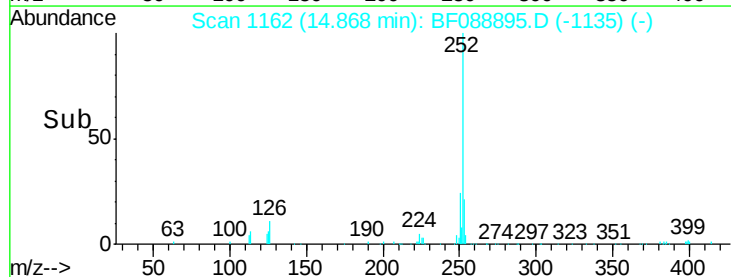
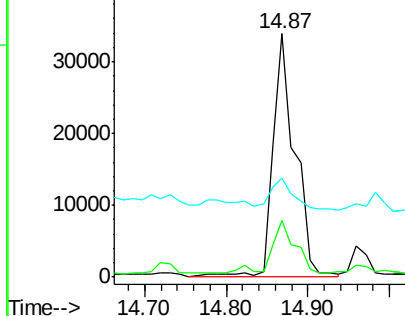
#87
Benzo(b)fluoranthene
Concen: 6.44 ng
RT: 14.87 min Scan# 1162
Delta R.T. 0.01 min
Lab File: BF088895.D
Acq: 10 Jul 2016 3:21

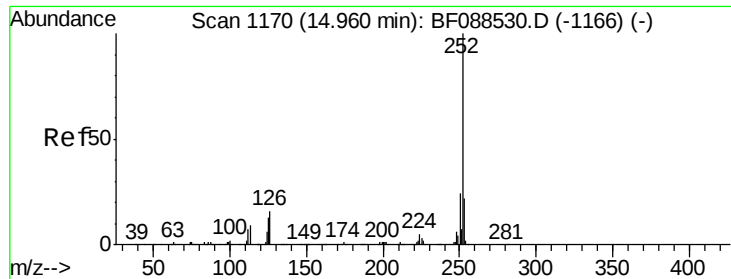
Tgt Ion: 252 Resp: 64438

Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.4	26.2
125	40.6	7.1	10.7#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

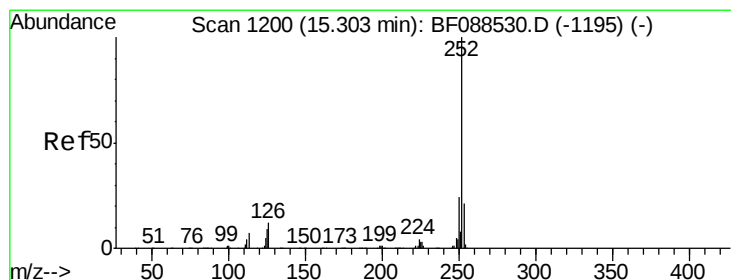
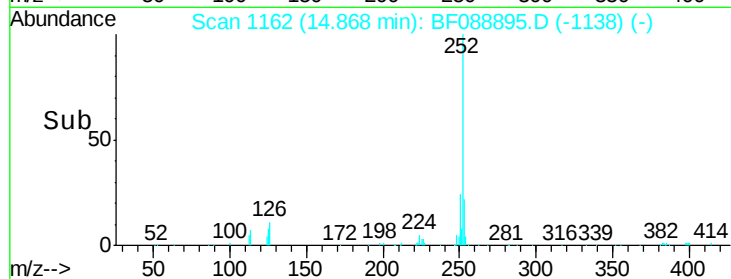
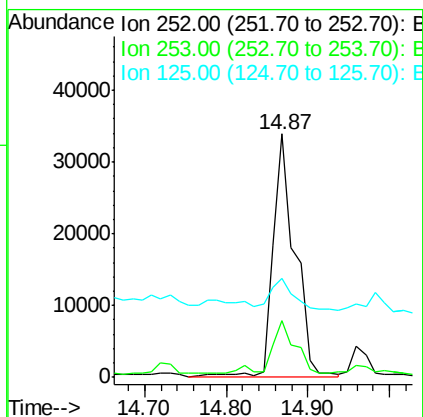
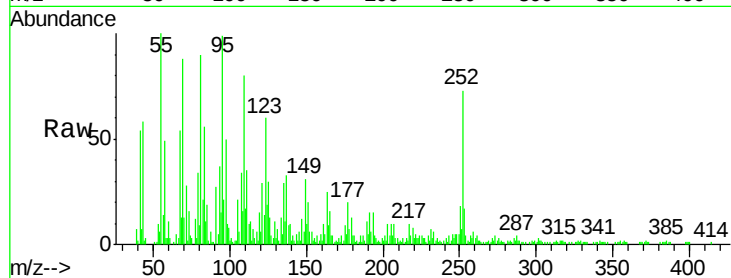




#88
Benzo(k)fluoranthene
Concen: 7.39 ng
RT: 14.87 min Scan# 1162
Delta R.T. -0.02 min
Lab File: BF088895.D
Acq: 10 Jul 2016 3:21

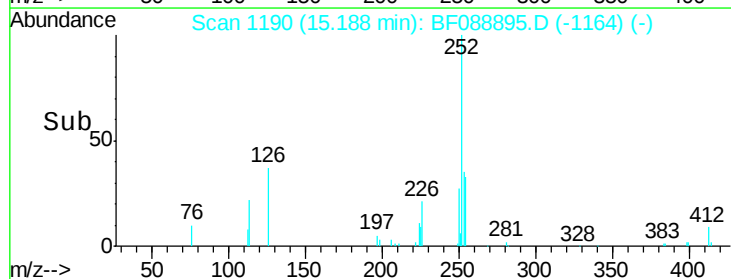
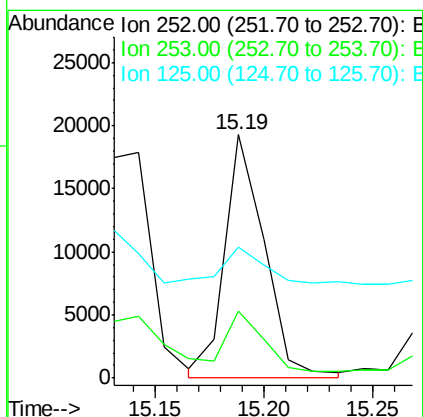
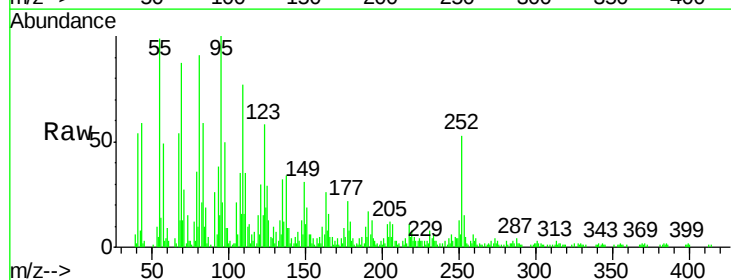
Instrument :
BNA_F
ClientSampleId :
SS-10

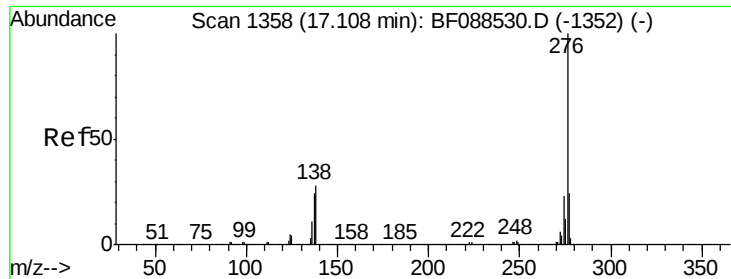
Tgt Ion: 252 Resp: 64438
Ion Ratio Lower Upper
252 100
253 23.1 18.0 27.0
125 40.6 11.2 16.8#



#89
Benzo(a)pyrene
Concen: 2.90 ng
RT: 15.19 min Scan# 1190
Delta R.T. 0.00 min
Lab File: BF088895.D
Acq: 10 Jul 2016 3:21

Tgt Ion: 252 Resp: 24583
Ion Ratio Lower Upper
252 100
253 27.4 17.9 26.9#
125 53.7 12.5 18.7#





#91

Benzo(g,h,i)perylene

Concen: 4.87 ng

RT: 16.93 min Scan# 1342

Delta R.T. -0.01 min

Lab File: BF088895.D

Acq: 10 Jul 2016 3:21

Instrument :

BNA_F

ClientSampleId :

SS-10

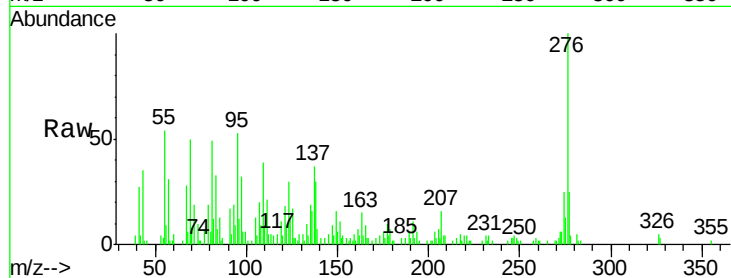
Tgt Ion: 276 Resp: 35656

Ion Ratio Lower Upper

276 100

277 25.5 18.9 28.3

138 30.3 21.4 32.2



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

