

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041516\
 Data File : BF086260.D
 Acq On : 16 Apr 2016 12:34
 Operator : UM/SJ
 Sample : H2471-04
 Misc :
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CDMSH4

Quant Time: Apr 18 04:00:31 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF041516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 15 15:56:31 2016
 Response via : Initial Calibration

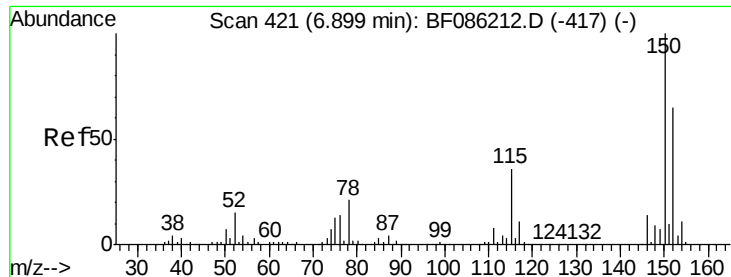
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	273762	20.00	ng	-0.01
21) Naphthalene-d8	8.18	136	1146828	20.00	ng	0.00
38) Acenaphthene-d10	9.93	164	486528	20.00	ng	-0.01
63) Phenanthrene-d10	11.41	188	874432	20.00	ng	0.00
75) Chrysene-d12	14.05	240	483435	20.00	ng	0.00
86) Perylene-d12	15.48	264	490846	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	1698356	101.65	ng	0.01
7) Phenol-d6	6.52	99	2190902	104.83	ng	0.00
23) Nitrobenzene-d5	7.46	82	1429276	71.88	ng	0.00
41) 2,4,6-Tribromophenol	10.72	330	361936	92.64	ng	-0.01
44) 2-Fluorobiphenyl	9.25	172	1697864	64.40	ng	-0.01
78) Terphenyl-d14	13.00	244	1370031	71.26	ng	0.00

Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.46	70	190860	14.27	ng	# 76
22) Acetophenone	7.30	105	822	Below	Cal	# 55
49) Dimethylphthalate	9.65	163	445642	12.60	ng	98
51) Acenaphthene	9.96	154	187350	6.89	ng	98
54) Dibenzofuran	10.13	168	117542	3.27	ng	97
56) 2,4-Dinitrotoluene	9.93	165	65986	6.58	ng	# 31
57) Fluorene	10.48	166	223284	5.89	ng	99
66) 4-Bromophenyl-phenylether	10.72	248	21983	2.70	ng	# 1
70) Phenanthrene	11.44	178	1651697	39.55	ng	100
71) Anthracene	11.49	178	666707	12.68	ng	97
72) Carbazole	11.64	167	213005	5.36	ng	96
74) Fluoranthene	12.62	202	1637457	45.63	ng	99
77) Pyrene	12.85	202	1427734	38.50	ng	99
80) Benzo(a)anthracene	14.04	228	699356	26.35	ng	99
82) Chrysene	14.04	228	699356	24.71	ng	95
85) Indeno(1,2,3-cd)pyrene	16.89	276	275548	11.85	ng	97
87) Benzo(b)fluoranthene	15.07	252	835403	27.59	ng	97
88) Benzo(k)fluoranthene	15.07	252	835403	30.26	ng	# 94
89) Benzo(a)pyrene	15.17	252	105228	4.01	ng	94
91) Benzo(g,h,i)perylene	17.31	276	262353	10.64	ng	96

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

```
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Operator  : UM/SJ  
Sample    : H2471-04  
Misc      :  
ALS Vial  : 41      Sample Multiplier: 1
```



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.89 min Scan# 420

Delta R.T. -0.01 min

Lab File: BF086260.D

Acq: 16 Apr 2016 12:34

Instrument :

BNA_F

ClientSampleId :

CDMSH4

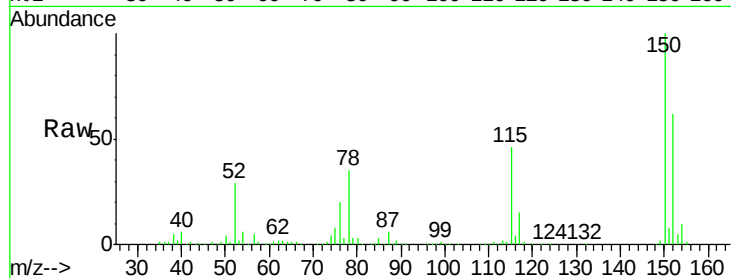
Tgt Ion:152 Resp: 273762

Ion Ratio Lower Upper

152 100

150 160.7 124.1 186.1

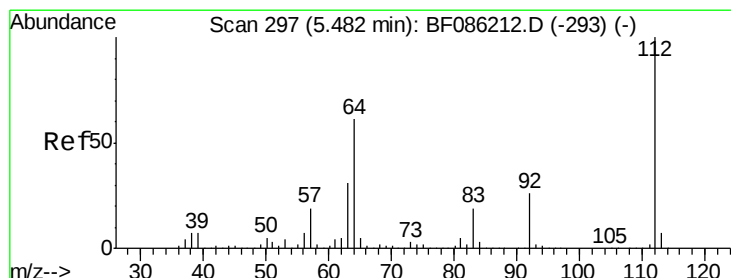
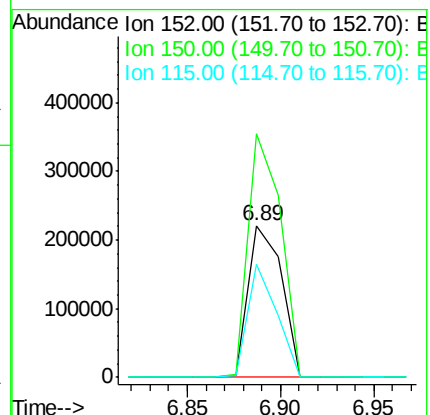
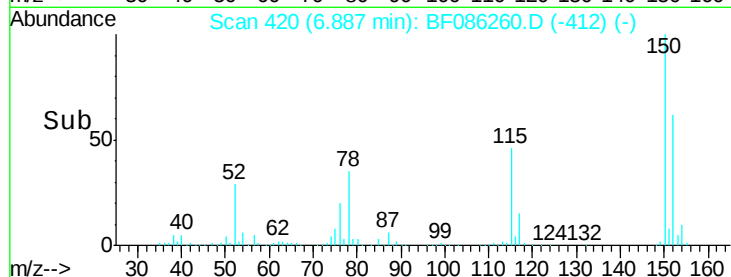
115 74.3 43.9 65.9#



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: 101.65 ng

RT: 5.49 min Scan# 298

Delta R.T. 0.01 min

Lab File: BF086260.D

Acq: 16 Apr 2016 12:34

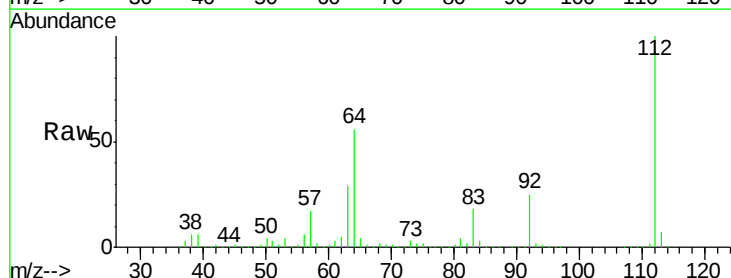
Tgt Ion:112 Resp: 1698356

Ion Ratio Lower Upper

112 100

64 55.7 48.1 72.1

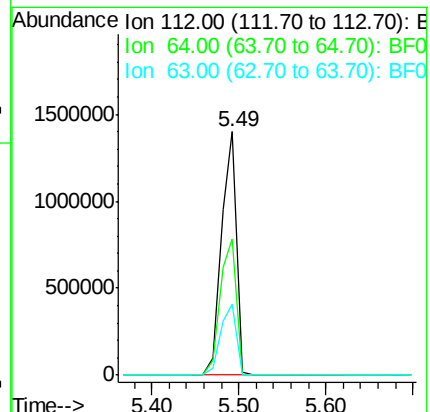
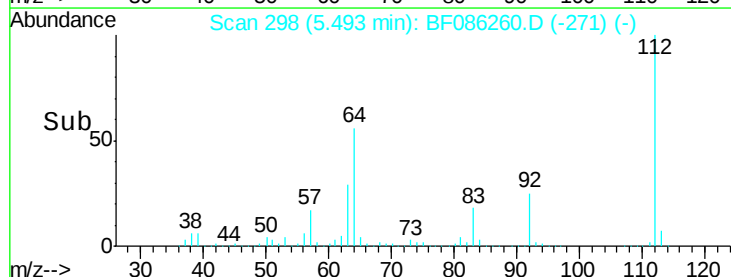
63 28.9 25.5 38.3

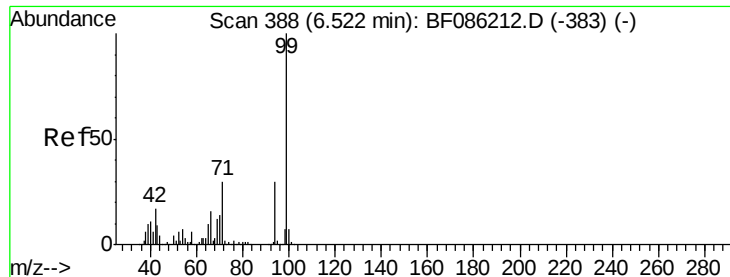


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 104.83 ng

RT: 6.52 min Scan# 388

Delta R.T. -0.00 min

Lab File: BF086260.D

Acq: 16 Apr 2016 12:34

Instrument :

BNA_F

ClientSampleId :

CDMSH4

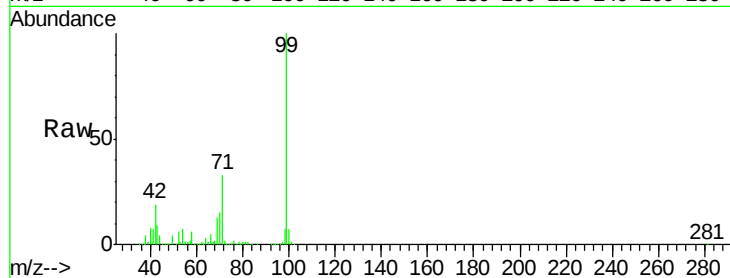
Tgt Ion: 99 Resp: 2190902

Ion Ratio Lower Upper

99 100

42 18.5 15.4 23.2

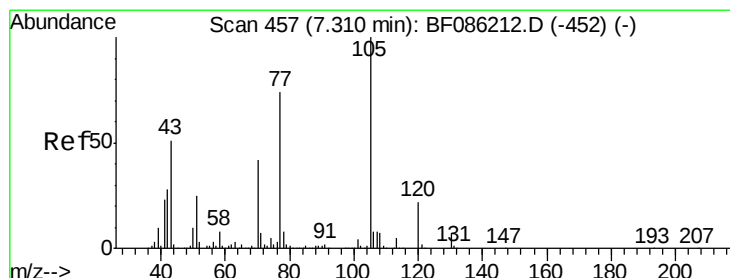
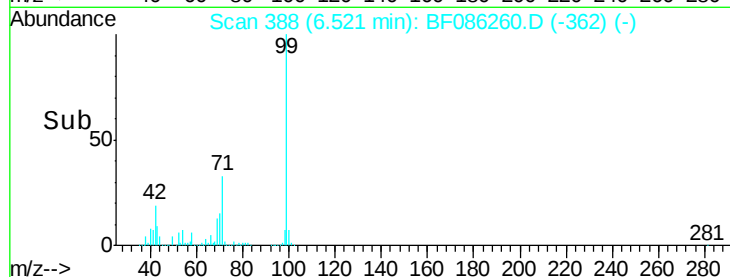
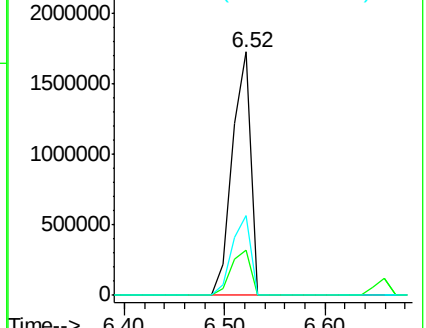
71 32.7 25.6 38.4



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



#19

n-Nitroso-di-n-propylamine

Concen: 14.27 ng

RT: 7.46 min Scan# 470

Delta R.T. 0.15 min

Lab File: BF086260.D

Acq: 16 Apr 2016 12:34

Tgt Ion: 70 Resp: 190860

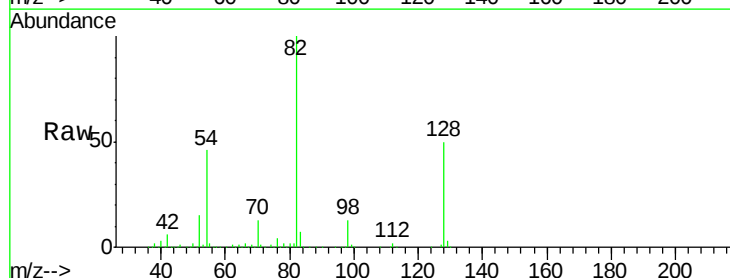
Ion Ratio Lower Upper

70 100

42 44.2 43.0 64.4

101 0.0 8.1 12.1#

130 2.5 20.1 30.1#

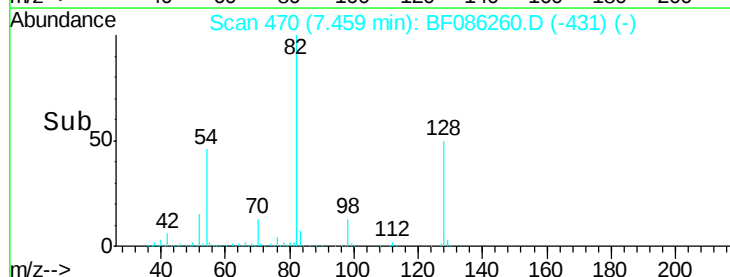
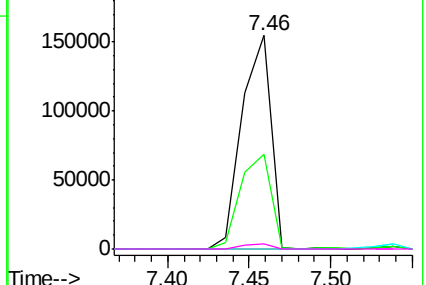


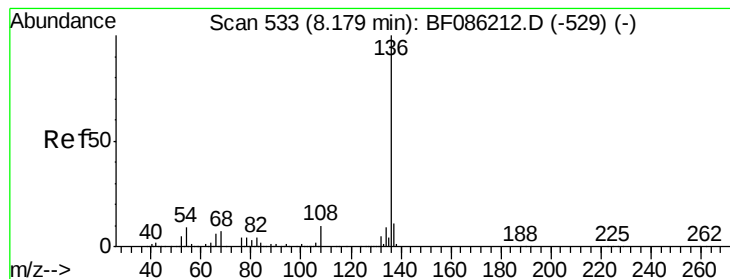
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.18 min Scan# 533

Delta R.T. -0.00 min

Lab File: BF086260.D

Acq: 16 Apr 2016 12:34

Instrument :

BNA_F

ClientSampleId :

CDMSH4

Tgt Ion:136 Resp: 1146828

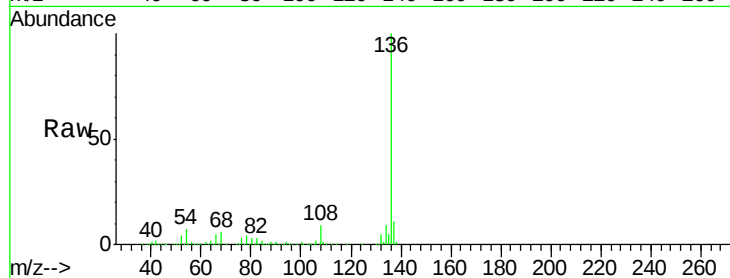
Ion Ratio Lower Upper

136 100

137 11.3 9.1 13.7

54 7.3 7.3 10.9

68 6.1 5.7 8.5

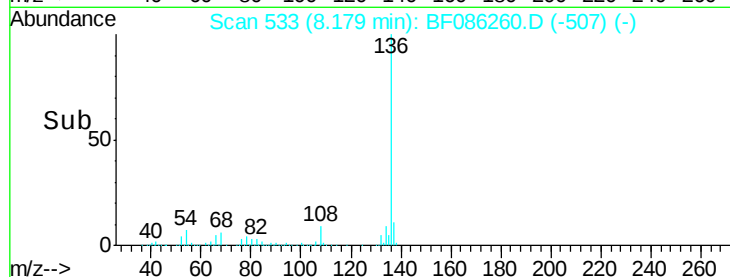


Abundance Ion 136.00 (135.70 to 136.70): E

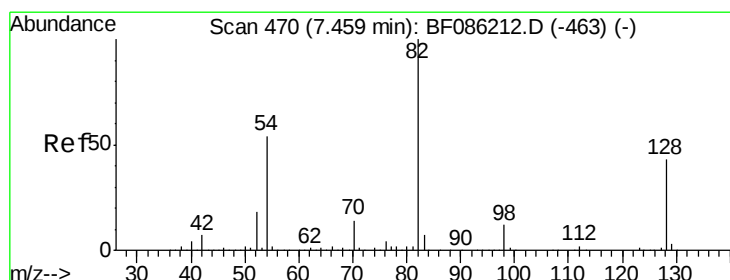
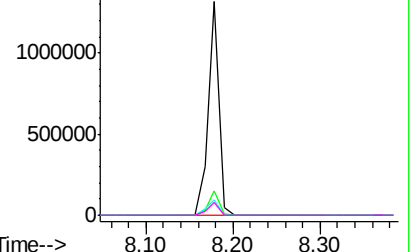
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time-->



#23

Nitrobenzene-d5

Concen: 71.88 ng

RT: 7.46 min Scan# 470

Delta R.T. -0.00 min

Lab File: BF086260.D

Acq: 16 Apr 2016 12:34

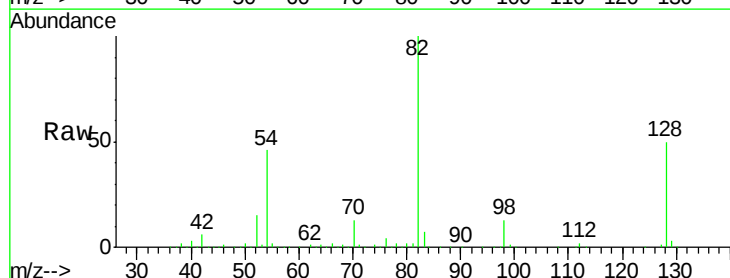
Tgt Ion: 82 Resp: 1429276

Ion Ratio Lower Upper

82 100

128 49.6 35.4 53.2

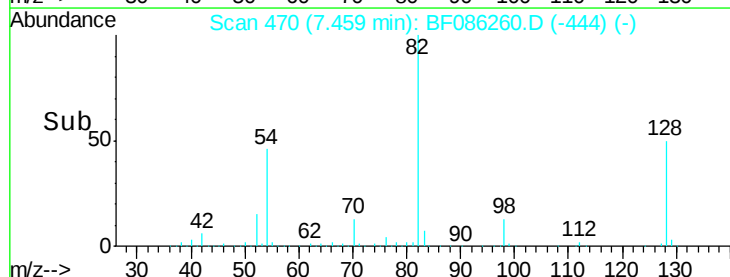
54 46.4 43.4 65.0



Abundance Ion 82.00 (81.70 to 82.70): BF0

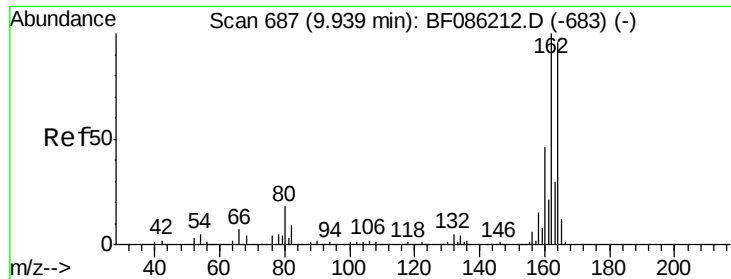
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



Time-->





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.93 min Scan# 686

Delta R.T. -0.01 min

Lab File: BF086260.D

Acq: 16 Apr 2016 12:34

Instrument :

BNA_F

ClientSampleId :

CDMSH4

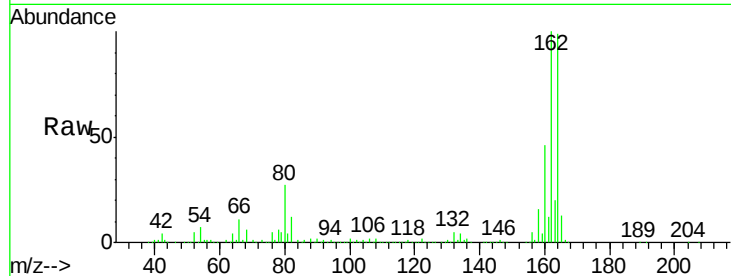
Tgt Ion:164 Resp: 486528

Ion Ratio Lower Upper

164 100

162 101.0 82.8 124.2

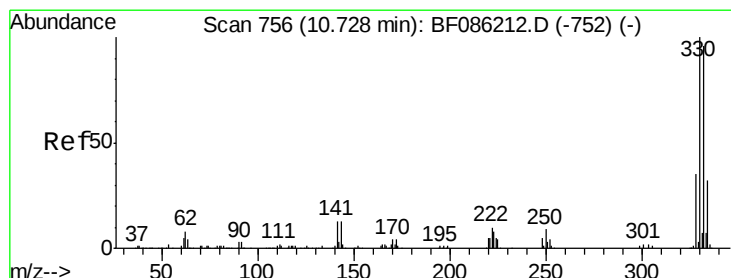
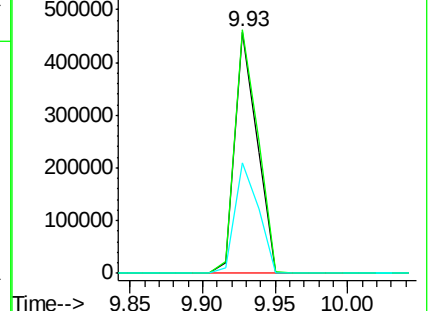
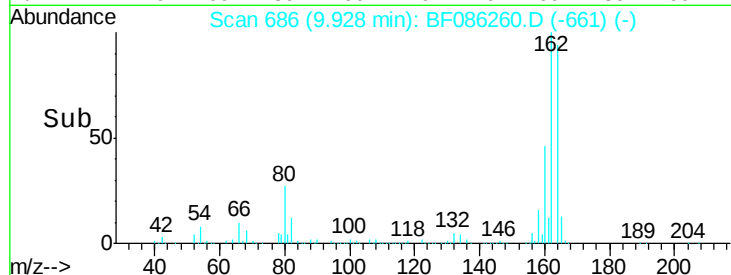
160 46.0 38.9 58.3



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: 92.64 ng

RT: 10.72 min Scan# 755

Delta R.T. -0.01 min

Lab File: BF086260.D

Acq: 16 Apr 2016 12:34

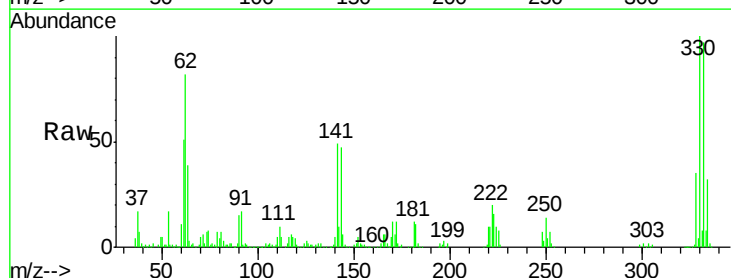
Tgt Ion:330 Resp: 361936

Ion Ratio Lower Upper

330 100

332 97.2 78.7 118.1

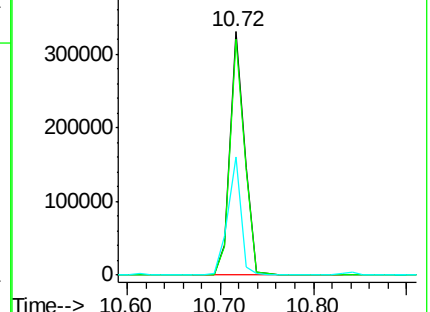
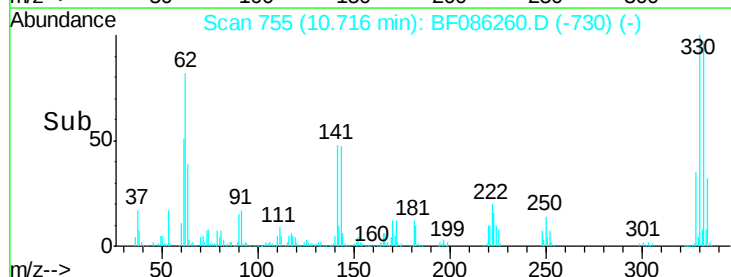
141 43.7 28.6 42.8#

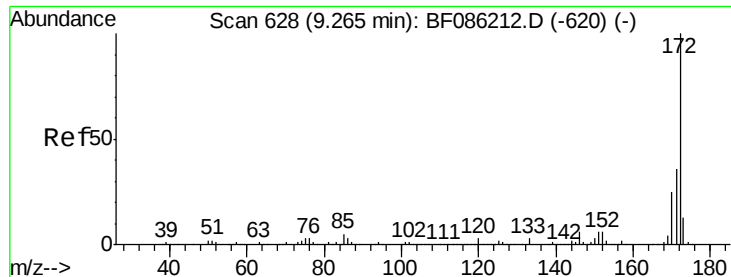


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

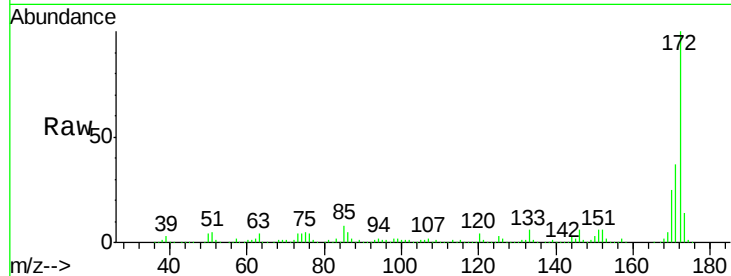




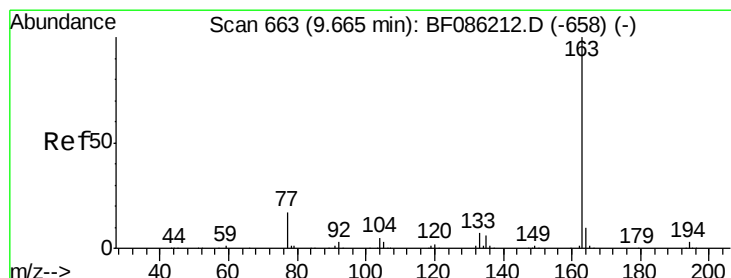
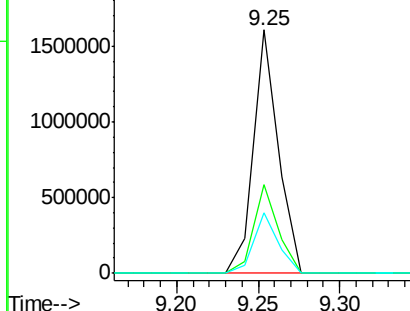
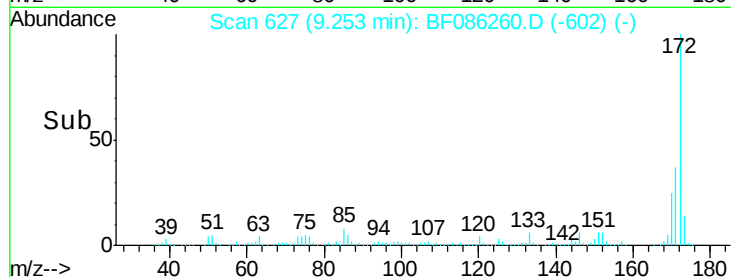
#44
2-Fluorobiphenyl
Concen: 64.40 ng
RT: 9.25 min Scan# 627
Delta R.T. -0.01 min
Lab File: BF086260.D
Acq: 16 Apr 2016 12:34

Instrument :
BNA_F
ClientSampleId :
CDMSH4

Tgt Ion:172 Resp: 1697864
Ion Ratio Lower Upper
172 100
171 36.6 29.1 43.7
170 25.0 19.9 29.9

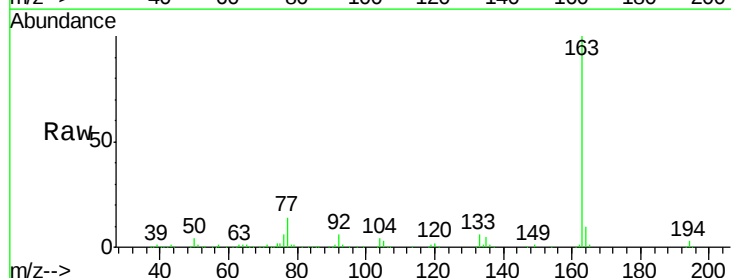


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

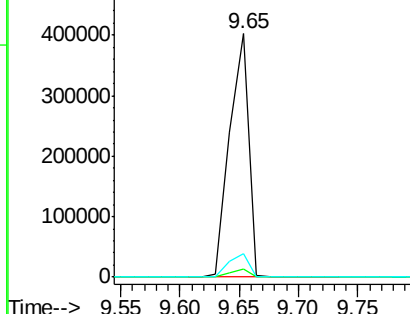
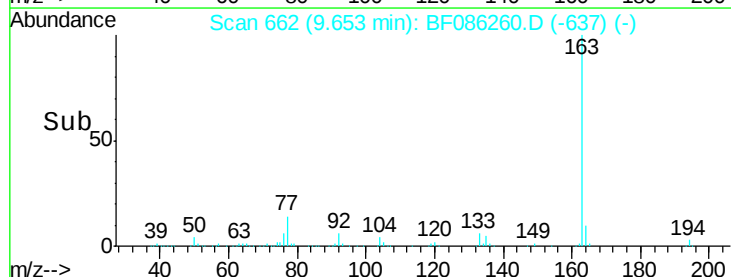


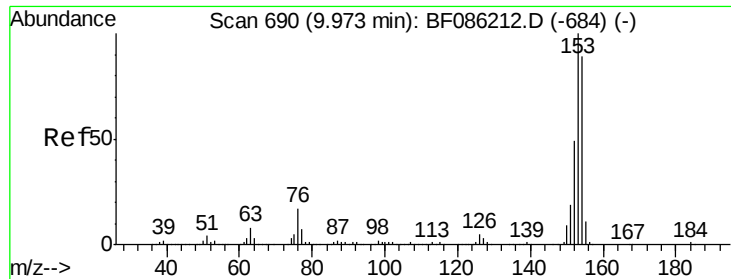
#49
Dimethylphthalate
Concen: 12.60 ng
RT: 9.65 min Scan# 662
Delta R.T. -0.01 min
Lab File: BF086260.D
Acq: 16 Apr 2016 12:34

Tgt Ion:163 Resp: 445642
Ion Ratio Lower Upper
163 100
194 3.4 2.8 4.2
164 9.6 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

Acenaphthene

Concen: 6.89 ng

RT: 9.96 min Scan# 689

Delta R.T. -0.01 min

Lab File: BF086260.D

Acq: 16 Apr 2016 12:34

Instrument :

BNA_F

ClientSampleId :

CDMSH4

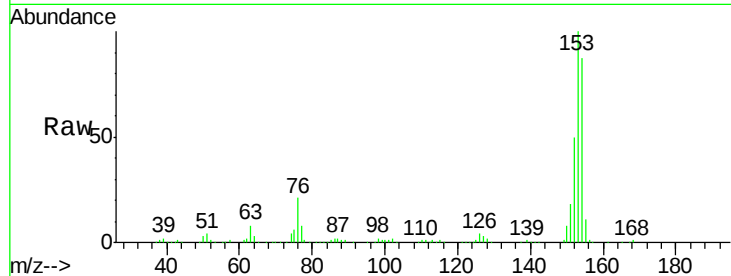
Tgt Ion:154 Resp: 187350

Ion Ratio Lower Upper

154 100

153 115.0 90.0 135.0

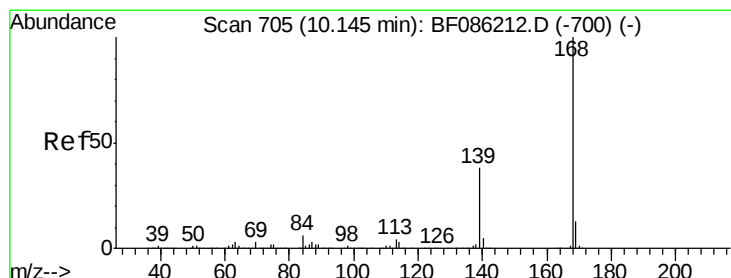
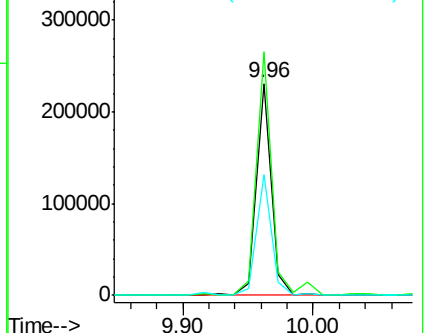
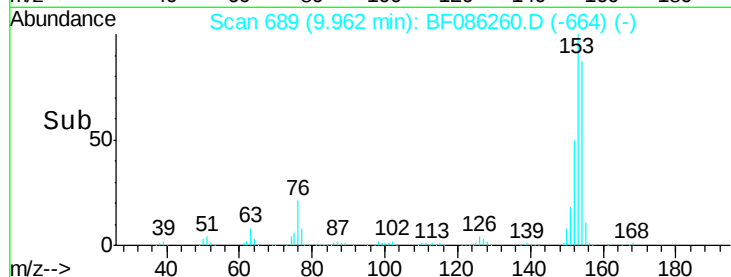
152 57.3 44.3 66.5



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 3.27 ng

RT: 10.13 min Scan# 704

Delta R.T. -0.01 min

Lab File: BF086260.D

Acq: 16 Apr 2016 12:34

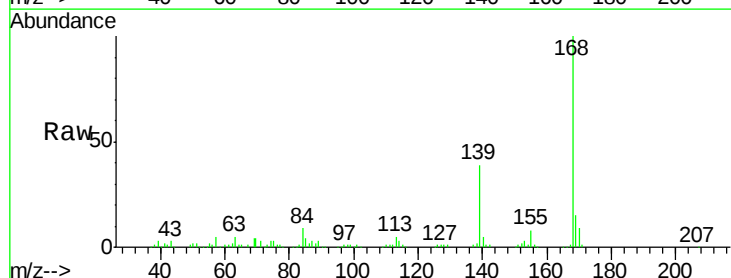
Tgt Ion:168 Resp: 117542

Ion Ratio Lower Upper

168 100

139 38.9 29.5 44.3

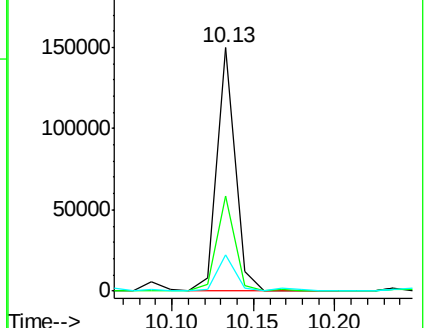
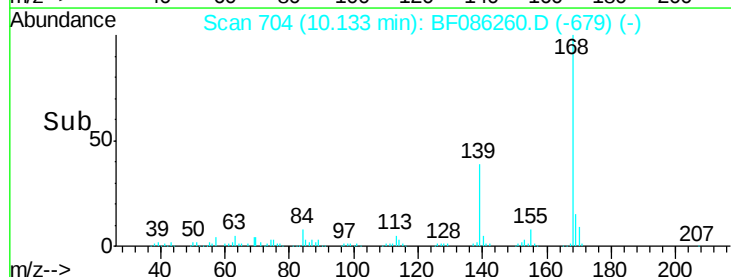
169 14.8 10.6 16.0

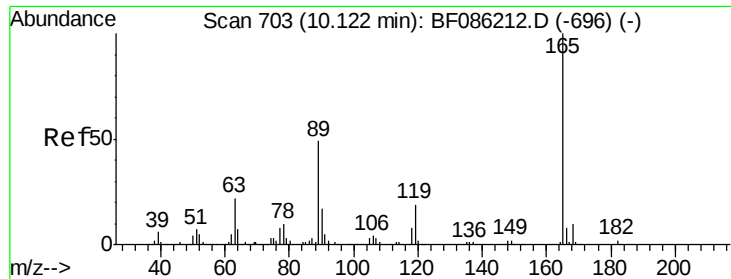


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

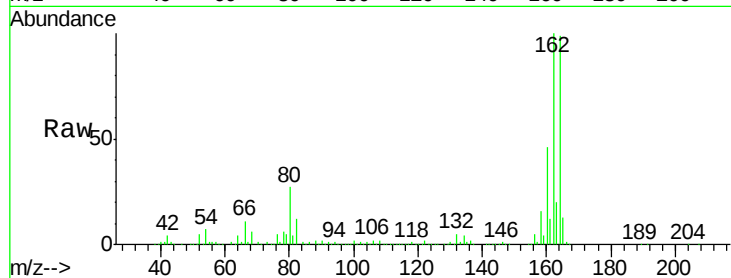




#56
2,4-Dinitrotoluene
Concen: 6.58 ng
RT: 9.93 min Scan# 686
Delta R.T. -0.19 min
Lab File: BF086260.D
Acq: 16 Apr 2016 12:34

Instrument :
BNA_F
ClientSampleId :
CDMSH4

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.5	26.6	40.0#
89	1.7	49.5	74.3#
182	0.0	1.9	2.9#

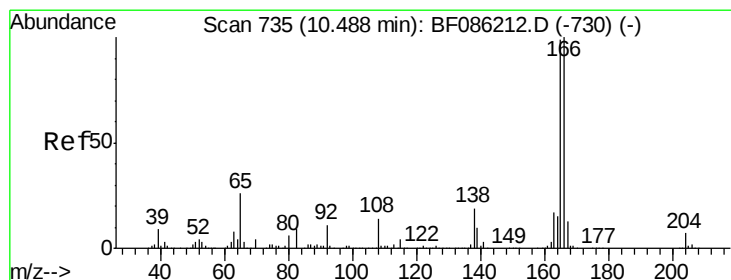
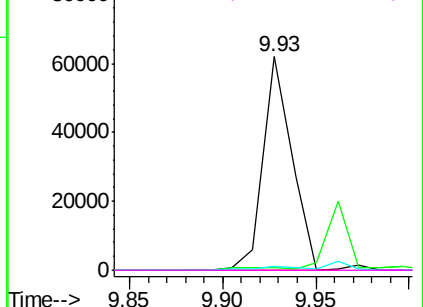
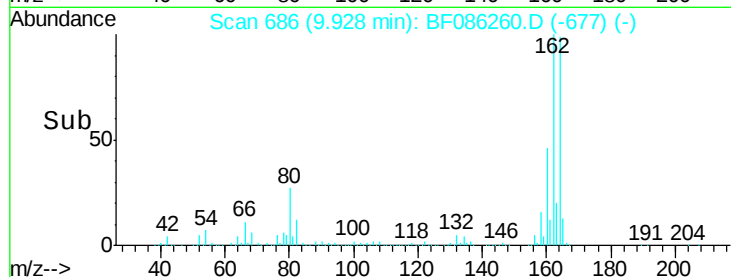


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

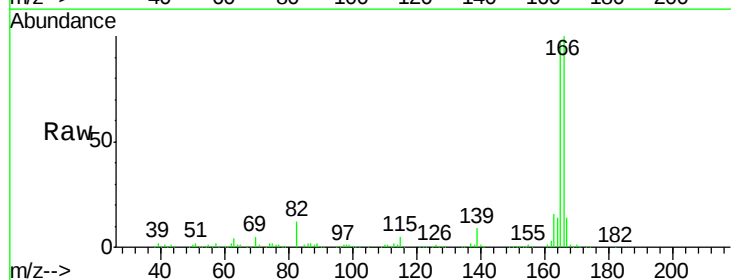
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#57
Fluorene
Concen: 5.89 ng
RT: 10.48 min Scan# 734
Delta R.T. -0.01 min
Lab File: BF086260.D
Acq: 16 Apr 2016 12:34

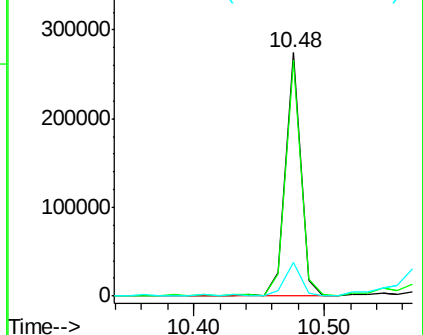
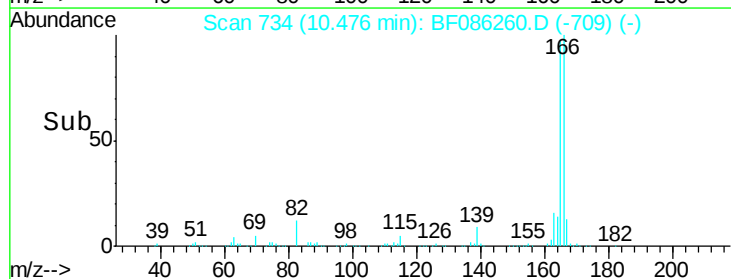
Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.0	78.6	117.8
167	13.6	10.4	15.6

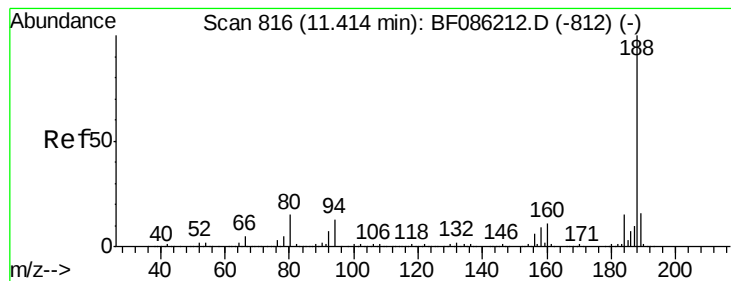


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.41 min Scan# 816

Delta R.T. -0.00 min

Lab File: BF086260.D

Acq: 16 Apr 2016 12:34

Instrument :

BNA_F

ClientSampleId :

CDMSH4

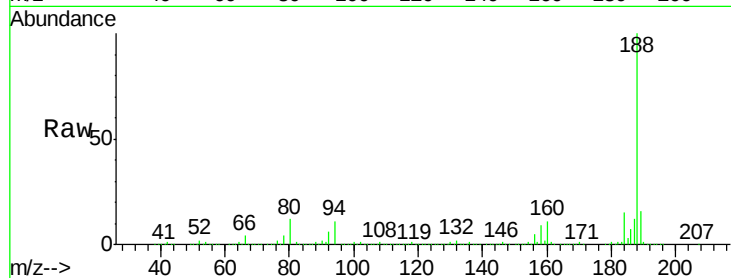
Tgt Ion:188 Resp: 874432

Ion Ratio Lower Upper

188 100

94 11.4 9.8 14.8

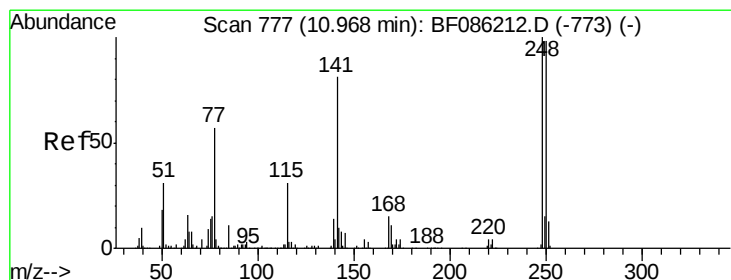
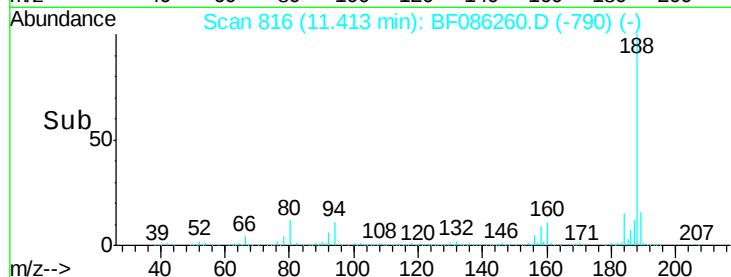
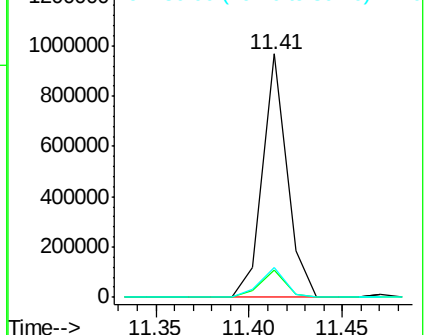
80 12.4 10.5 15.7



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



#66

4-Bromophenyl-phenylether

Concen: 2.70 ng

RT: 10.72 min Scan# 755

Delta R.T. -0.25 min

Lab File: BF086260.D

Acq: 16 Apr 2016 12:34

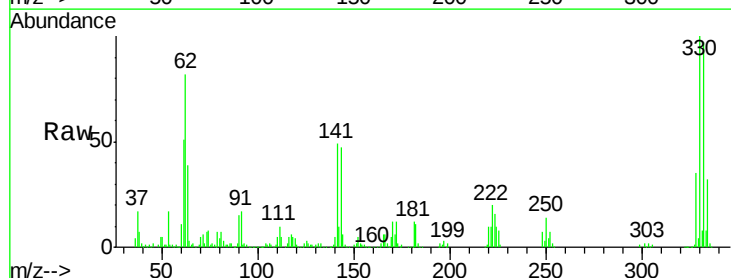
Tgt Ion:248 Resp: 21983

Ion Ratio Lower Upper

248 100

250 200.8 78.6 118.0#

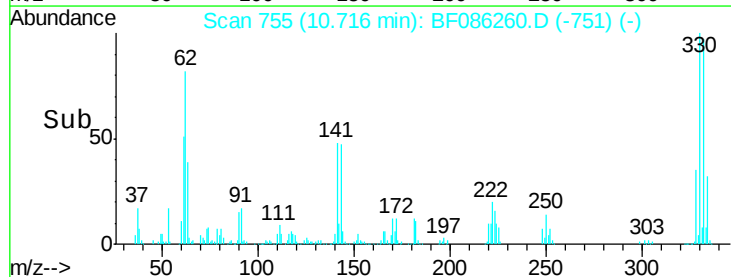
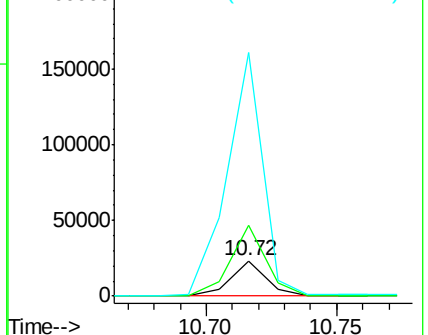
141 690.7 57.9 86.9#

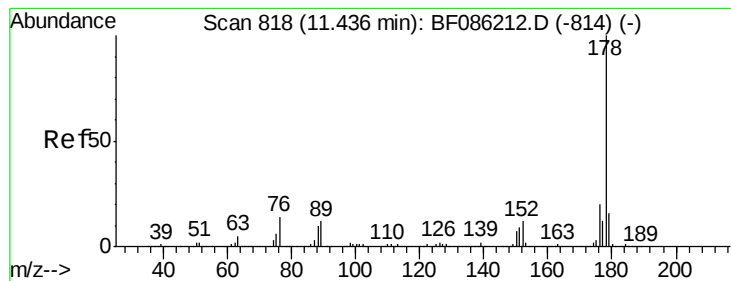


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 39.55 ng

RT: 11.44 min Scan# 818

Delta R.T. 0.00 min

Lab File: BF086260.D

Acq: 16 Apr 2016 12:34

Instrument :

BNA_F

ClientSampleId :

CDMSH4

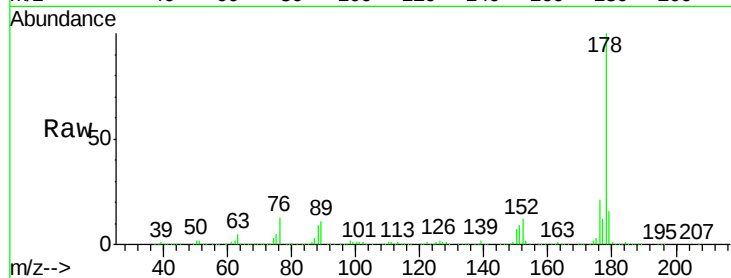
Tgt Ion:178 Resp: 1651697

Ion Ratio Lower Upper

178 100

176 20.6 16.3 24.5

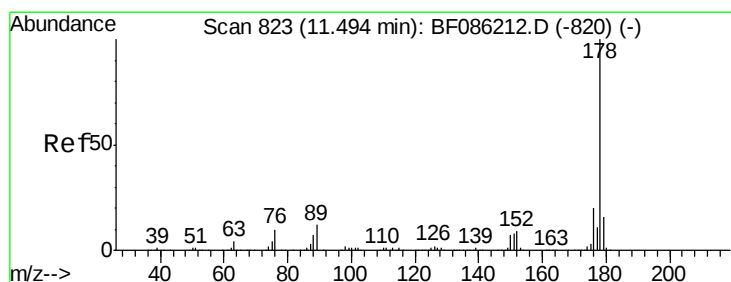
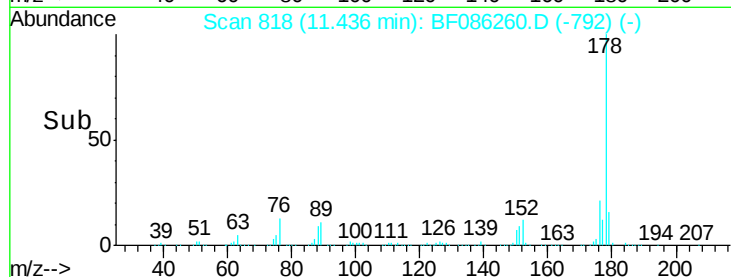
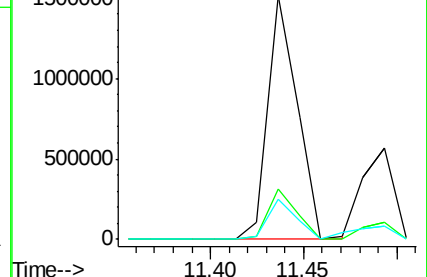
179 16.2 13.0 19.6



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



#71

Anthracene

Concen: 12.68 ng

RT: 11.49 min Scan# 823

Delta R.T. 0.00 min

Lab File: BF086260.D

Acq: 16 Apr 2016 12:34

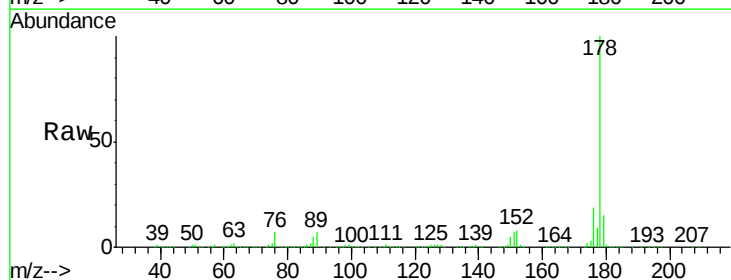
Tgt Ion:178 Resp: 666707

Ion Ratio Lower Upper

178 100

176 19.0 16.2 24.4

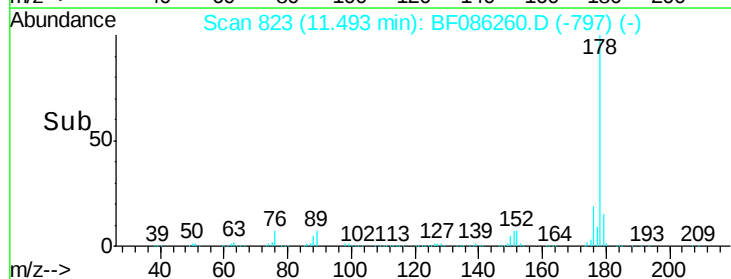
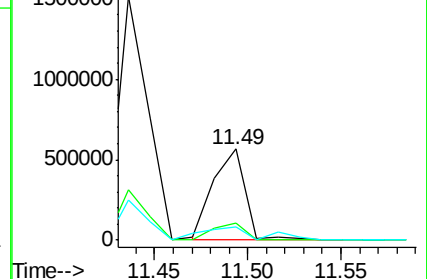
179 15.0 13.2 19.8

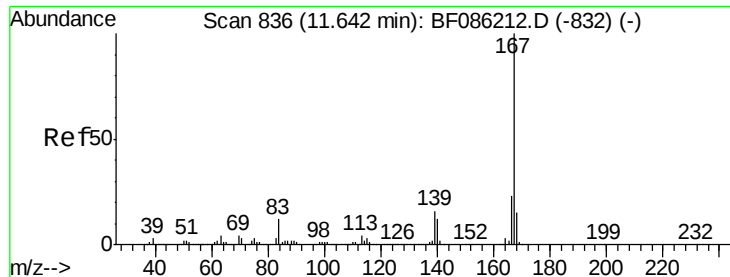


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 5.36 ng

RT: 11.64 min Scan# 836

Delta R.T. -0.00 min

Lab File: BF086260.D

Acq: 16 Apr 2016 12:34

Instrument :

BNA_F

ClientSampleId :

CDMSH4

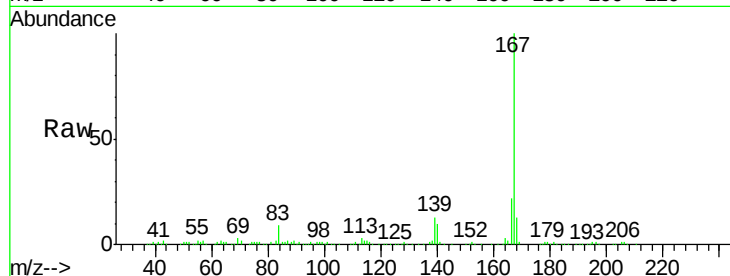
Tgt Ion:167 Resp: 213005

Ion Ratio Lower Upper

167 100

166 21.7 18.3 27.5

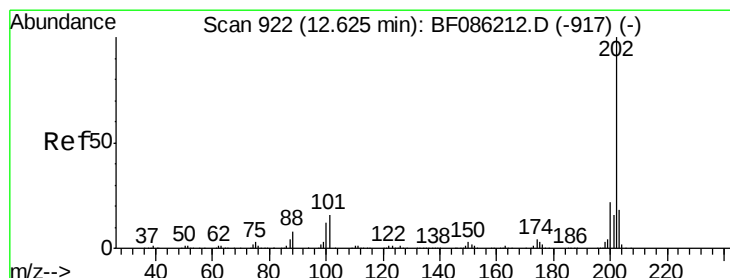
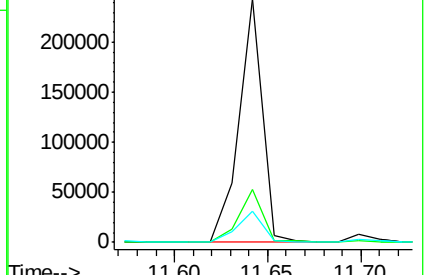
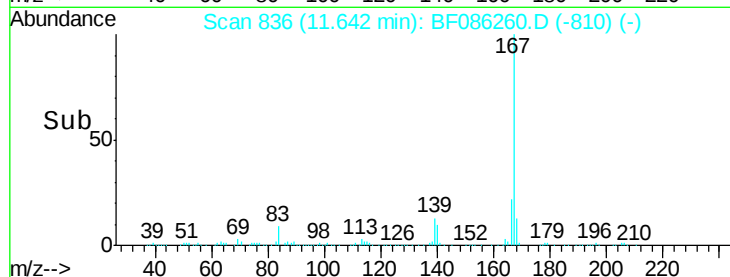
139 12.7 12.3 18.5



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 45.63 ng

RT: 12.62 min Scan# 922

Delta R.T. -0.00 min

Lab File: BF086260.D

Acq: 16 Apr 2016 12:34

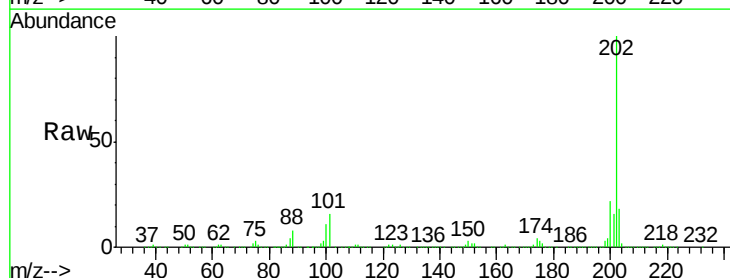
Tgt Ion:202 Resp: 1637457

Ion Ratio Lower Upper

202 100

101 15.8 0.0 35.2

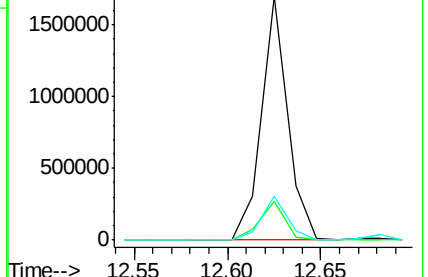
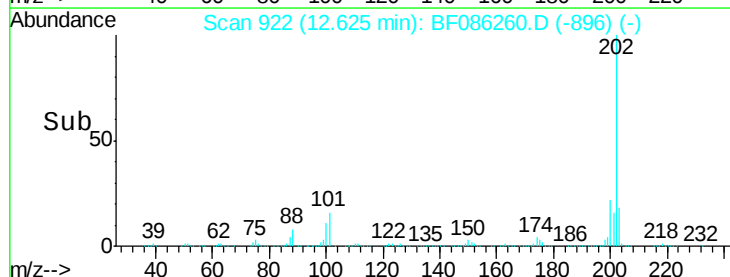
203 18.3 0.0 38.2

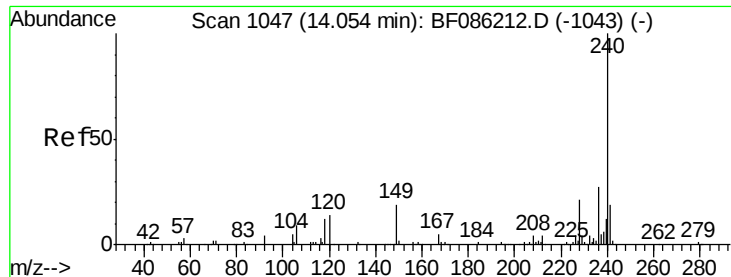


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.05 min Scan# 1047

Delta R.T. -0.00 min

Lab File: BF086260.D

Acq: 16 Apr 2016 12:34

Instrument :

BNA_F

ClientSampleId :

CDMSH4

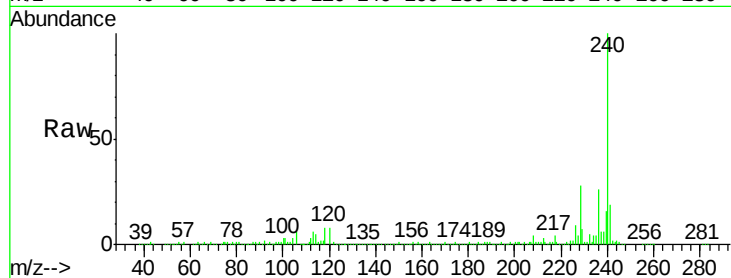
Tgt Ion:240 Resp: 483435

Ion Ratio Lower Upper

240 100

120 8.2 9.3 13.9#

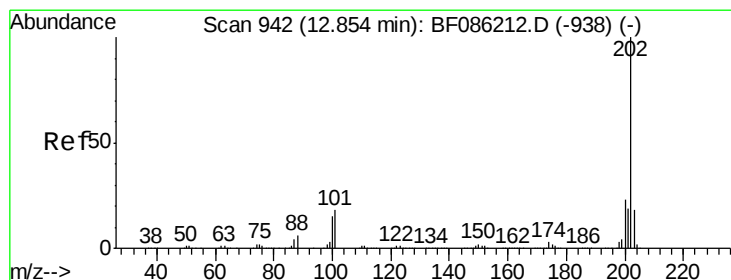
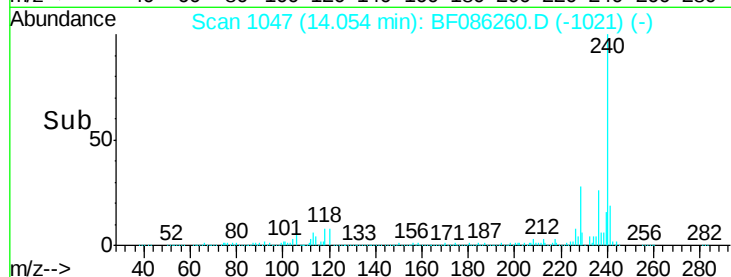
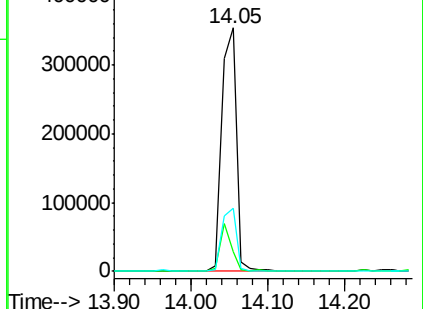
236 26.0 21.1 31.7



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: 38.50 ng

RT: 12.85 min Scan# 942

Delta R.T. -0.00 min

Lab File: BF086260.D

Acq: 16 Apr 2016 12:34

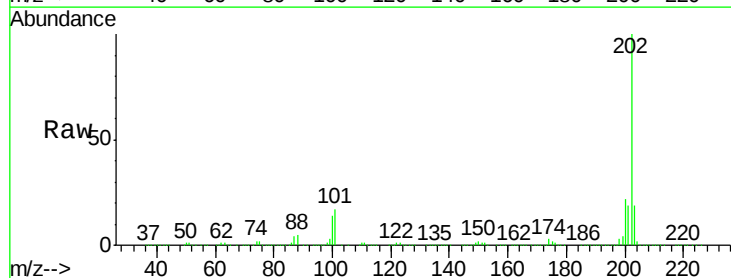
Tgt Ion:202 Resp: 1427734

Ion Ratio Lower Upper

202 100

200 22.2 18.3 27.5

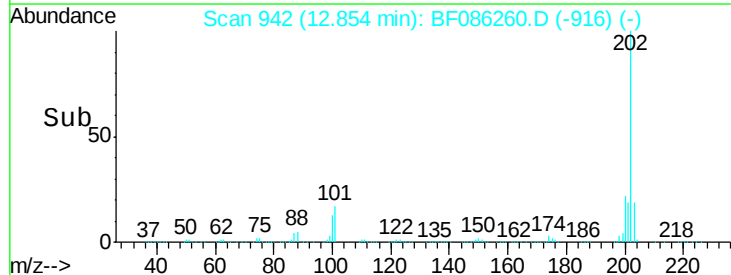
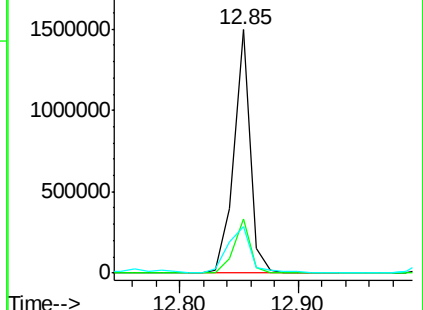
203 18.9 14.9 22.3

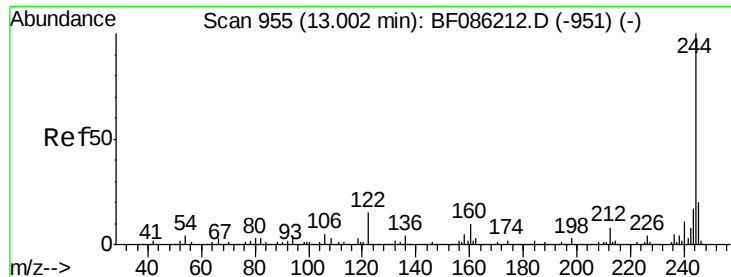


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

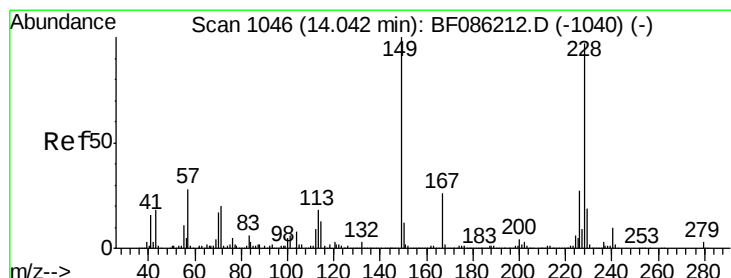
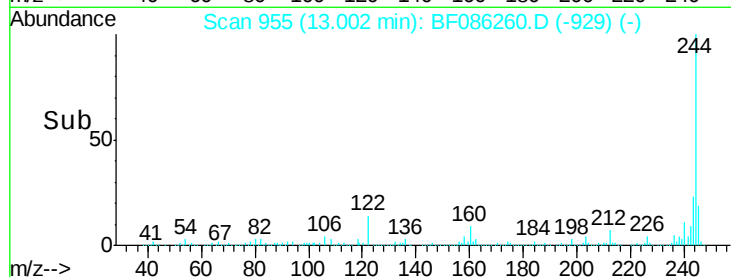
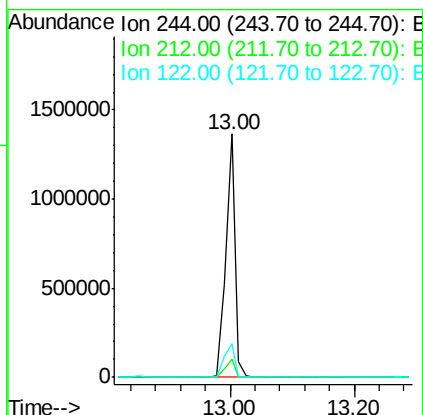
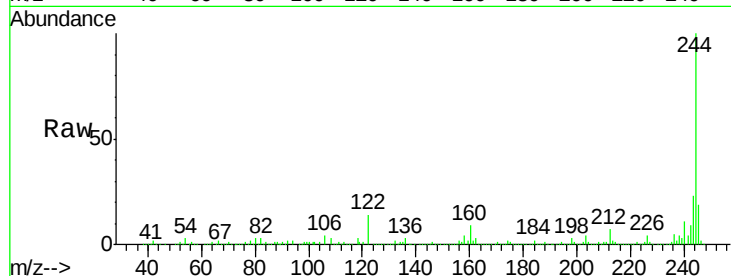




#78
 Terphenyl-d14
 Concen: 71.26 ng
 RT: 13.00 min Scan# 955
 Delta R.T. 0.00 min
 Lab File: BF086260.D
 Acq: 16 Apr 2016 12:34

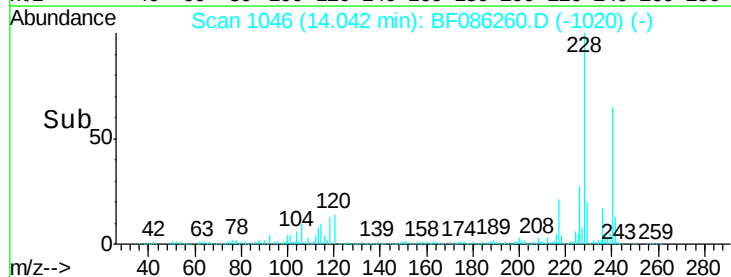
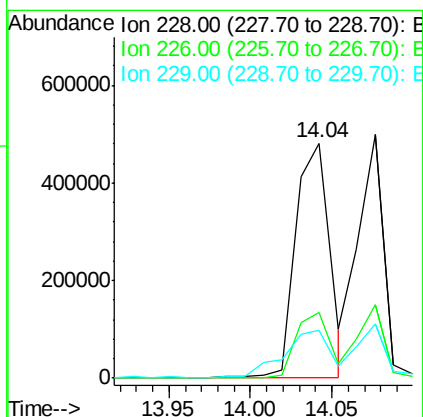
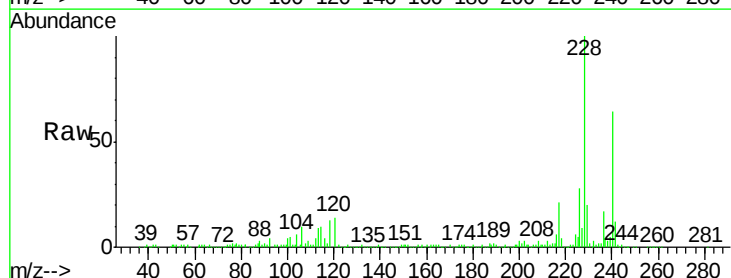
Instrument :
 BNA_F
 ClientSampleId :
 CDMSH4

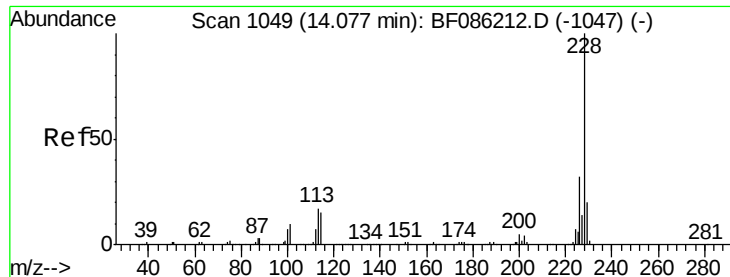
Tgt Ion:244 Resp: 1370031
 Ion Ratio Lower Upper
 244 100
 212 7.3 6.4 9.6
 122 13.6 11.7 17.5



#80
 Benzo(a)anthracene
 Concen: 26.35 ng
 RT: 14.04 min Scan# 1046
 Delta R.T. -0.00 min
 Lab File: BF086260.D
 Acq: 16 Apr 2016 12:34

Tgt Ion:228 Resp: 699356
 Ion Ratio Lower Upper
 228 100
 226 27.8 22.5 33.7
 229 20.4 16.2 24.2





#82

Chrysene

Concen: 24.71 ng

RT: 14.04 min Scan# 1046

Delta R.T. -0.03 min

Lab File: BF086260.D

Acq: 16 Apr 2016 12:34

Instrument :

BNA_F

ClientSampleId :

CDMSH4

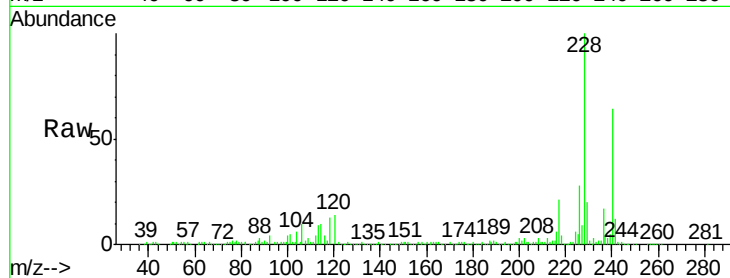
Tgt Ion:228 Resp: 699356

Ion Ratio Lower Upper

228 100

226 27.8 25.4 38.2

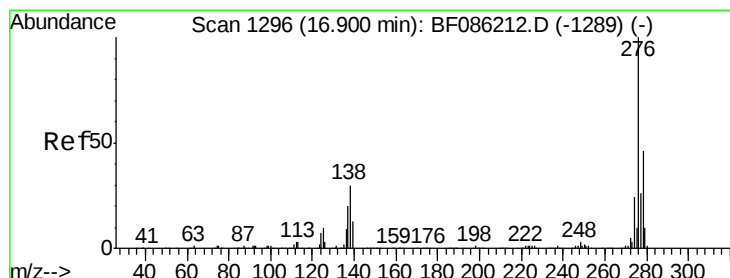
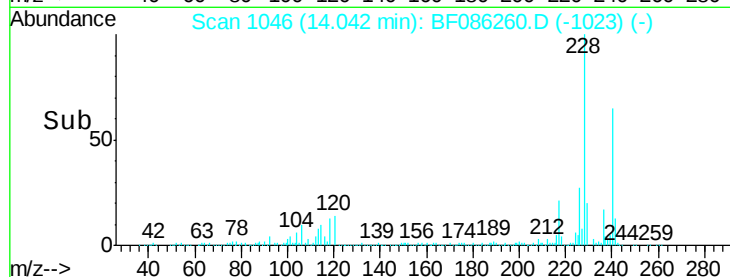
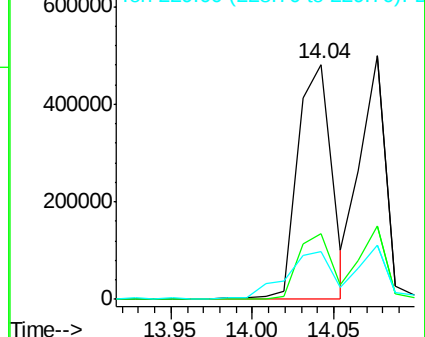
229 20.4 16.5 24.7



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 11.85 ng

RT: 16.89 min Scan# 1295

Delta R.T. -0.01 min

Lab File: BF086260.D

Acq: 16 Apr 2016 12:34

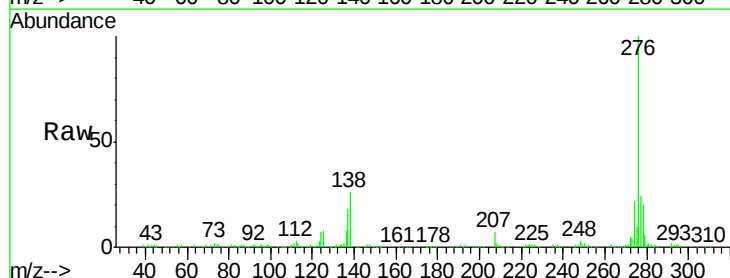
Tgt Ion:276 Resp: 275548

Ion Ratio Lower Upper

276 100

138 29.7 23.8 35.6

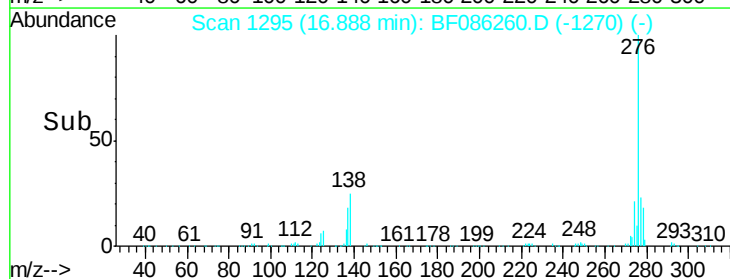
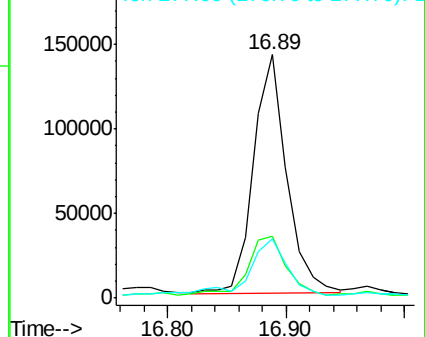
277 28.1 20.2 30.2

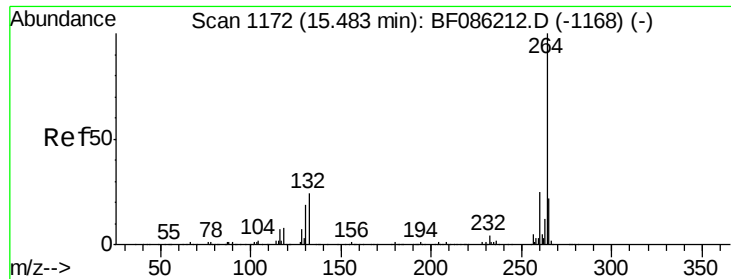


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

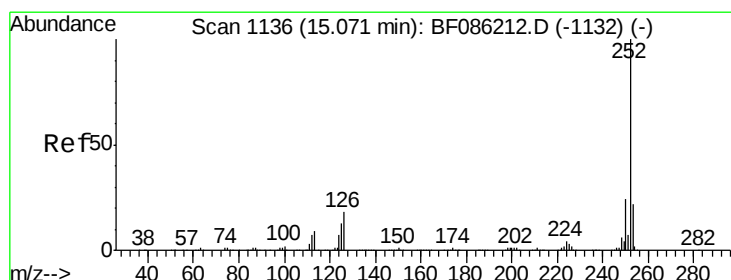
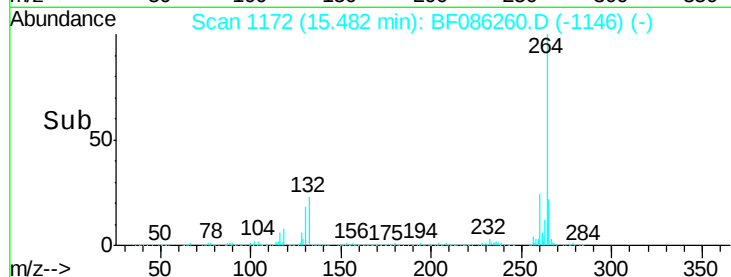
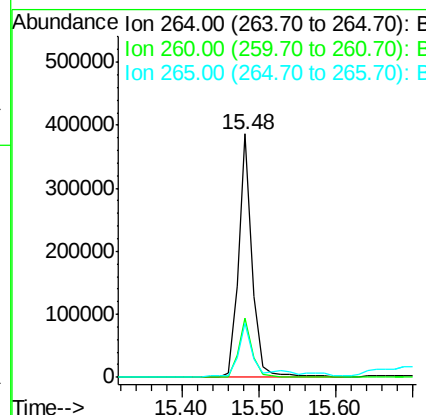
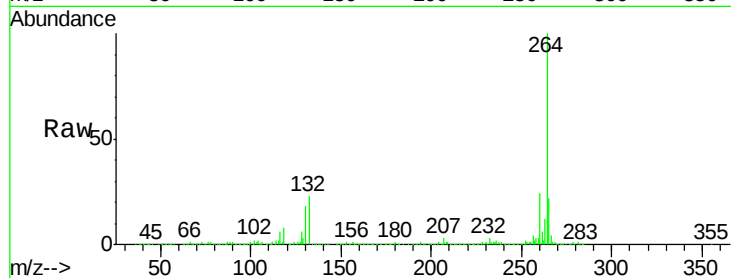




#86
Perylene-d12
Concen: 20.00 ng
RT: 15.48 min Scan# 1172
Delta R.T. -0.00 min
Lab File: BF086260.D
Acq: 16 Apr 2016 12:34

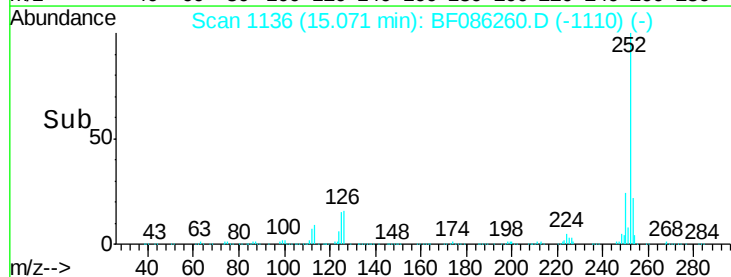
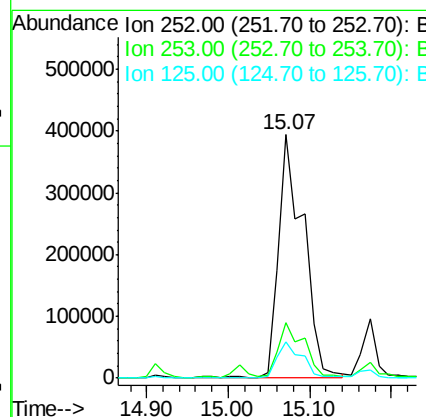
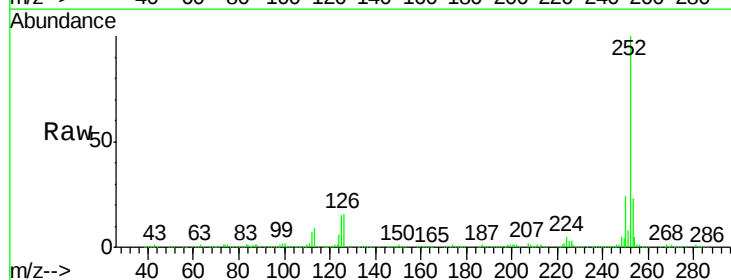
Instrument :
BNA_F
ClientSampleId :
CDMSH4

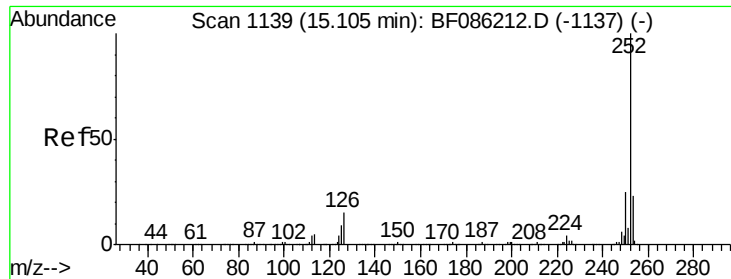
Tgt Ion:264 Resp: 490846
Ion Ratio Lower Upper
264 100
260 24.3 20.0 30.0
265 22.1 17.4 26.0



#87
Benzo(b)fluoranthene
Concen: 27.59 ng
RT: 15.07 min Scan# 1136
Delta R.T. -0.00 min
Lab File: BF086260.D
Acq: 16 Apr 2016 12:34

Tgt Ion:252 Resp: 835403
Ion Ratio Lower Upper
252 100
253 22.8 17.7 26.5
125 14.7 10.3 15.5

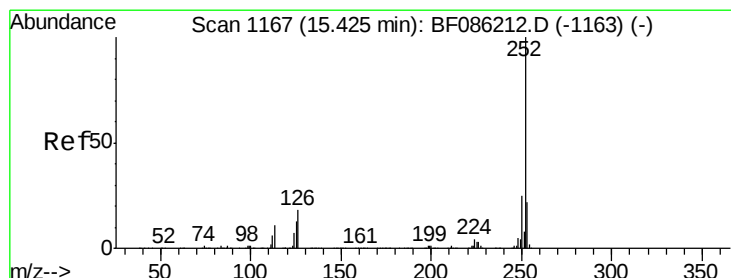
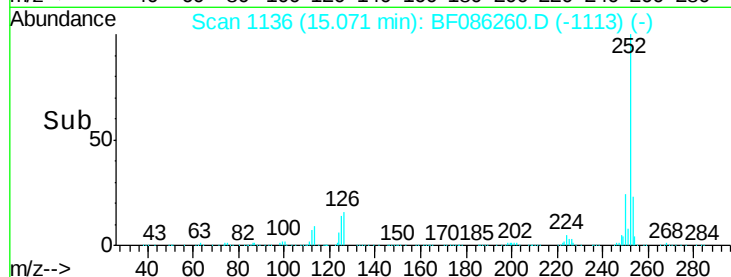
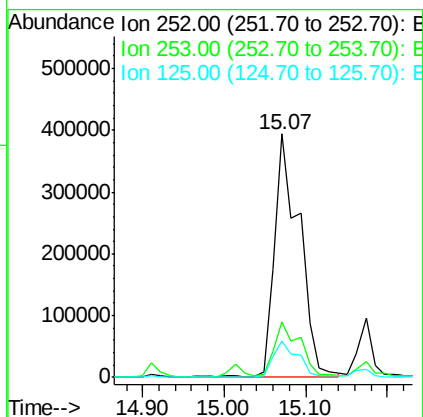
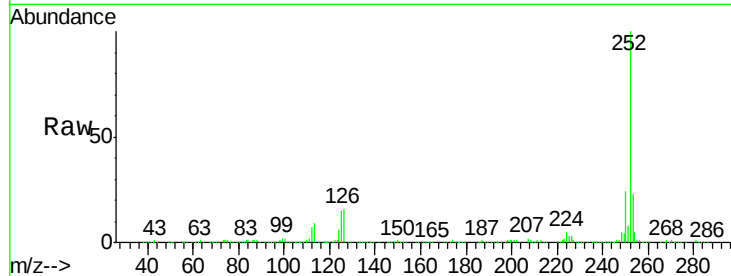




#88
Benzo(k)fluoranthene
Concen: 30.26 ng
RT: 15.07 min Scan# 1136
Delta R.T. -0.03 min
Lab File: BF086260.D
Acq: 16 Apr 2016 12:34

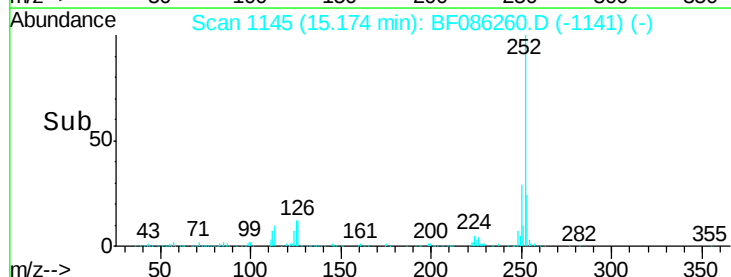
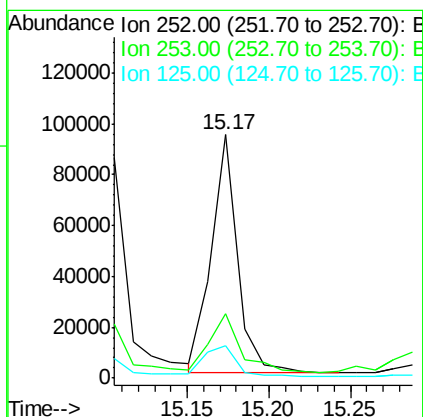
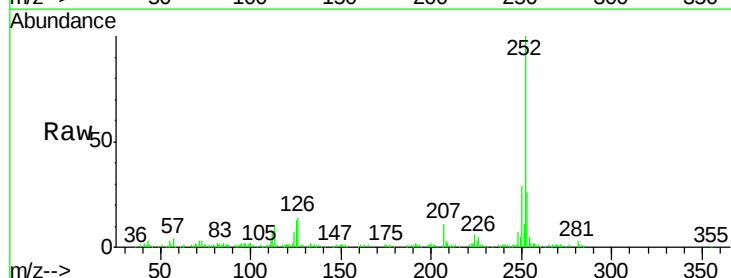
Instrument :
BNA_F
ClientSampled :
CDMSH4

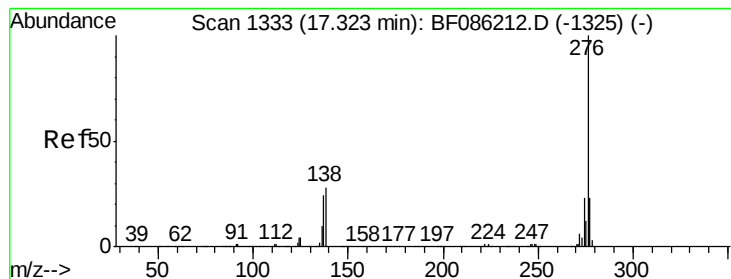
Tgt Ion: 252 Resp: 835403
Ion Ratio Lower Upper
252 100
253 22.8 17.5 26.3
125 14.7 7.8 11.6#



#89
Benzo(a)pyrene
Concen: 4.01 ng
RT: 15.17 min Scan# 1145
Delta R.T. -0.25 min
Lab File: BF086260.D
Acq: 16 Apr 2016 12:34

Tgt Ion: 252 Resp: 105228
Ion Ratio Lower Upper
252 100
253 26.3 17.8 26.8
125 13.1 11.2 16.8





#91

Benzo(g,h,i)perylene

Concen: 10.64 ng

RT: 17.31 min Scan# 1332

Delta R.T. -0.01 min

Lab File: BF086260.D

Acq: 16 Apr 2016 12:34

Instrument :

BNA_F

ClientSampleId :

CDMSH4

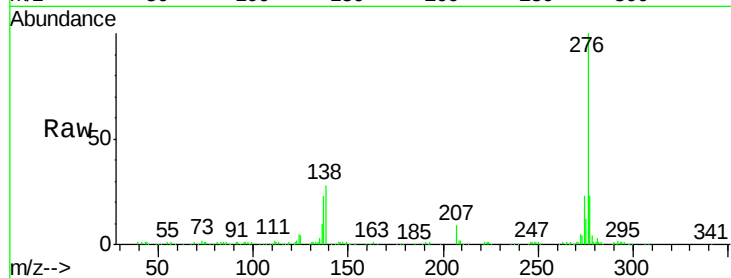
Tgt Ion: 276 Resp: 262353

Ion Ratio Lower Upper

276 100

277 23.4 19.0 28.6

138 28.0 19.6 29.4



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

