

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM070915\
 Data File : BM001887.D
 Acq On : 09 Jul 2015 16:51
 Operator : TP/UM
 Sample : G2860-04
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 G93H9

Quant Time: Jul 10 05:16:19 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM061515.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Jul 10 05:15:13 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.66	152	36019	20.00	ng/ul	0.00
18) Naphthalene-d8	10.45	136	126347	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.32	164	72805	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.07	188	168261	20.00	ng/ul	0.00
77) Chrysene-d12	21.27	240	193012	20.00	ng/ul	0.00
85) Perylene-d12	23.50	264	200523	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.15	96	2159	2.86	ng/uL	0.00
5) Phenol-d5	6.83	99	42730	15.45	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.00	67	25671	16.57	ng/ul	0.00
9) 2-Chlorophenol-d4	7.19	132	36190	16.54	ng/ul	0.00
13) 4-Methylphenol-d8	8.37	113	28562	12.86	ng/ul	0.00
19) Nitrobenzene-d5	8.82	128	16845	19.26	ng/ul	0.00
22) 2-Nitrophenol-d4	9.54	143	18977	19.84	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.07	165	35693	17.43	ng/ul	0.00
29) 4-Chloroaniline-d4	10.60	131	28423	13.65	ng/ul	0.00
43) Dimethylphthalate-d6	13.73	166	101382	18.78	ng/ul	0.00
46) Acenaphthylene-d8	14.01	160	114609	16.19	ng/ul	0.00
51) 4-Nitrophenol-d4	14.53	143	14528	14.59	ng/ul	0.00
57) Fluorene-d10	15.32	176	80693	16.11	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.44	200	8622	8.39	ng/ul	0.00
70) Anthracene-d10	17.17	188	127313	16.24	ng/ul	0.00
78) Pyrene-d10	19.47	212	121665	14.88	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.36	264	118770	13.44	ng/ul	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.88	88	8552	9.91	ng/uL#	1
6) Phenol	6.86	94	5171	1.81	ng/ul	95
14) Acetophenone	8.49	105	28976	8.22	ng/ul	99
28) Naphthalene	10.50	128	48232	7.56	ng/ul	99
34) 2-Methylnaphthalene	12.12	142	11684	2.53	ng/ul	95
44) Dimethylphthalate	13.77	163	29679	5.03	ng/ul	98
47) Acenaphthylene	14.04	152	53476	7.41	ng/ul	99
49) Acenaphthene	14.39	153	34814	7.22	ng/ul	97
53) Dibenzofuran	14.72	168	36758	5.32	ng/ul	99
58) Fluorene	15.37	166	44384	7.72	ng/ul	94
69) Phenanthrene	17.12	178	866153	94.93	ng/ul	99
71) Anthracene	17.20	178	176853	18.88	ng/ul	99
74) Carbazole	17.47	167	57857	7.04	ng/ul	98
76) Fluoranthene	19.14	202	1487494	136.31	ng/ul	100
79) Pyrene	19.50	202	1473962	137.65	ng/ul	99
82) Benzo(a)anthracene	21.25	228	701224	62.18	ng/ul	96
84) Chrysene	21.30	228	672153	62.88	ng/ul	97
87) Benzo(b)fluoranthene	22.83	252	830049	71.11	ng/ul	98
88) Benzo(k)fluoranthene	22.83	252	323382	28.67	ng/ul	97
90) Benzo(a)pyrene	23.40	252	619422	54.55	ng/ul	98
91) Indeno(1,2,3-cd)pyrene	25.75	276	429448	31.89	ng/ul	98
92) Dibenzo(a,h)anthracene	25.75	278	102624	9.03	ng/ul#	91
93) Benzo(g,h,i)perylene	26.44	276	200974	17.75	ng/ul	97

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Quant Title : SVOA CALIBRATION
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Response via : Initial Calibration

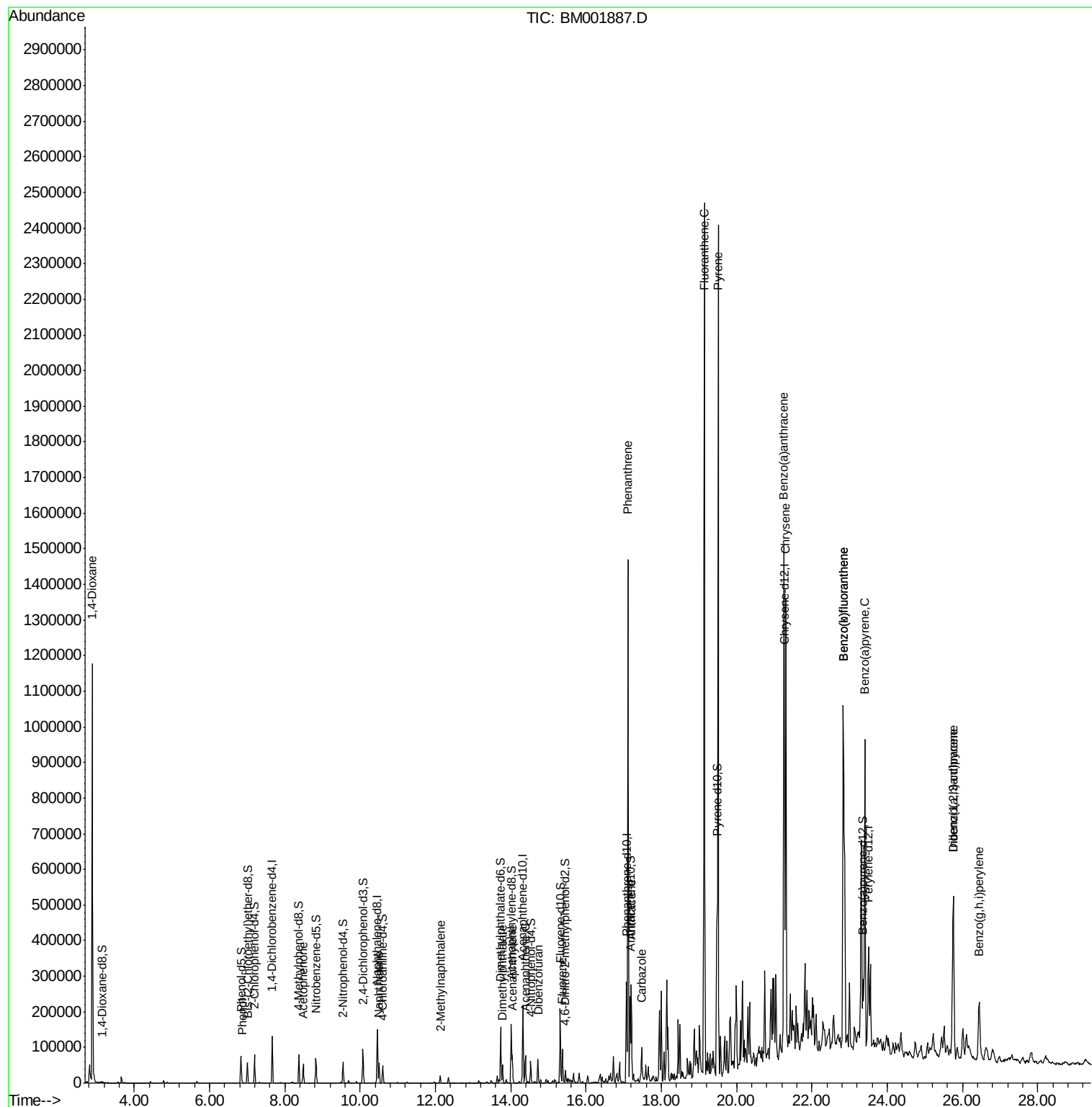
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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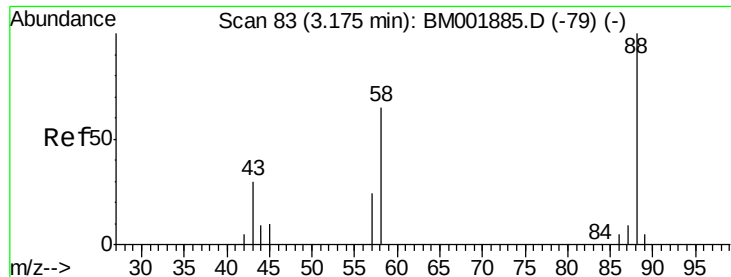
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

1,4-Dioxane

Concen: 9.91 ng/uL

RT: 2.88 min Scan# 33

Delta R.T. -0.29 min

Lab File: BM001887.D

Acq: 09 Jul 2015 16:51

Instrument :

BNA_M

ClientSampleId :

G93H9

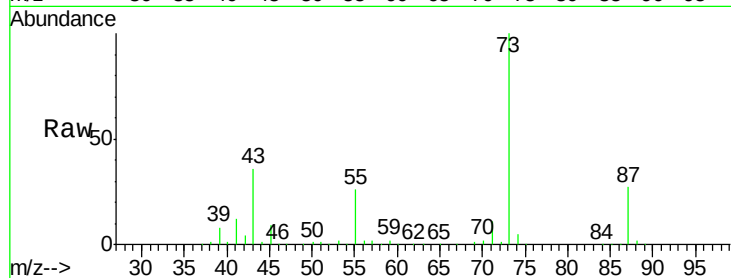
Tgt Ion: 88 Resp: 8552

Ion Ratio Lower Upper

88 100

43 2258.4 24.2 36.4#

58 28.7 56.2 84.2#



Abundance Ion 88.00 (87.70 to 88.70): BM001887.D (-1) (-)

Ion 43.00 (42.70 to 43.70): BM001887.D (-1) (-)

Ion 58.00 (57.70 to 58.70): BM001887.D (-1) (-)

200000

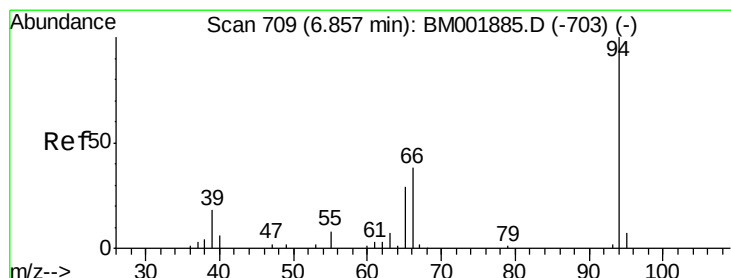
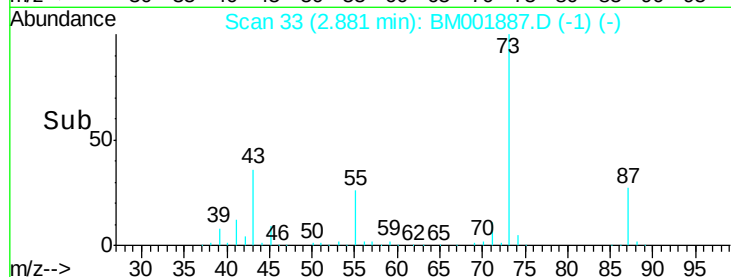
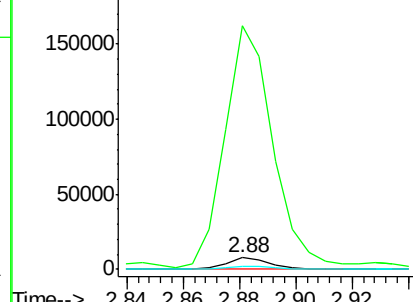
150000

100000

50000

0

2.84 2.86 2.88 2.90 2.92



#6

Phenol

Concen: 1.81 ng/uL

RT: 6.86 min Scan# 710

Delta R.T. 0.01 min

Lab File: BM001887.D

Acq: 09 Jul 2015 16:51

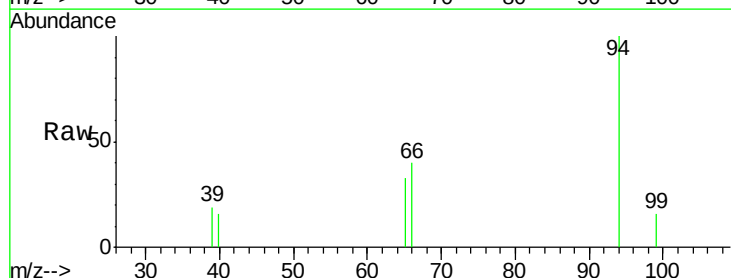
Tgt Ion: 94 Resp: 5171

Ion Ratio Lower Upper

94 100

65 33.2 26.1 39.1

66 39.5 35.9 53.9



Abundance Ion 94.00 (93.70 to 94.70): BM001887.D (-675) (-)

Ion 65.00 (64.70 to 65.70): BM001887.D (-675) (-)

Ion 66.00 (65.70 to 66.70): BM001887.D (-675) (-)

4000

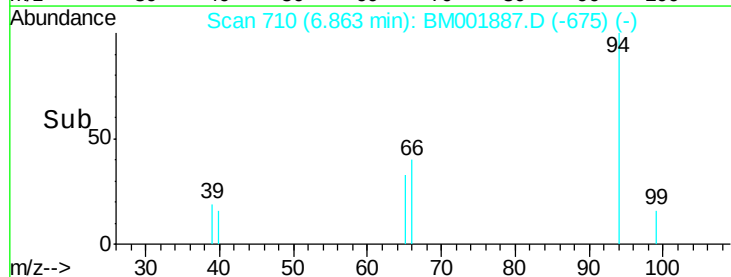
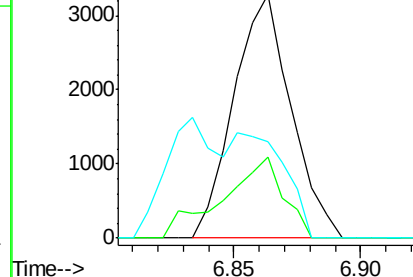
3000

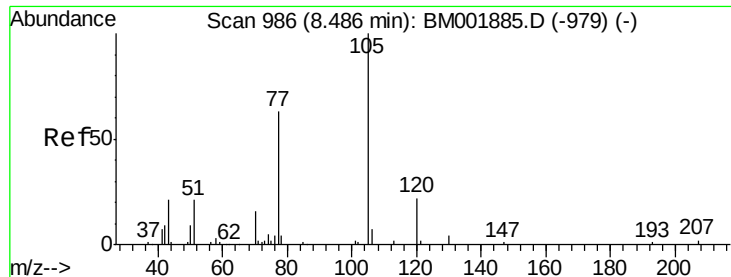
2000

1000

0

6.85 6.86 6.87 6.88 6.89





#14

Acetophenone

Concen: 8.22 ng/ul

RT: 8.49 min Scan# 986

Delta R.T. 0.00 min

Lab File: BM001887.D

Acq: 09 Jul 2015 16:51

Instrument :

BNA_M

ClientSampleId :

G93H9

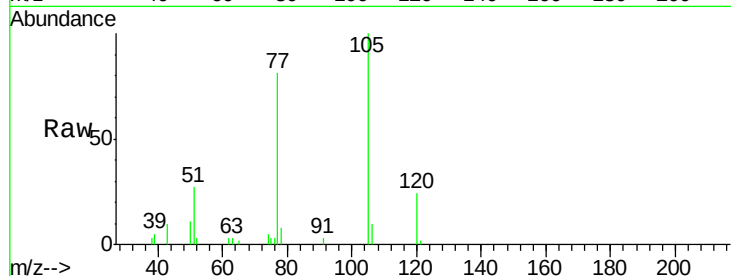
Tgt Ion:105 Resp: 28976

Ion Ratio Lower Upper

105 100

77 80.9 64.2 96.4

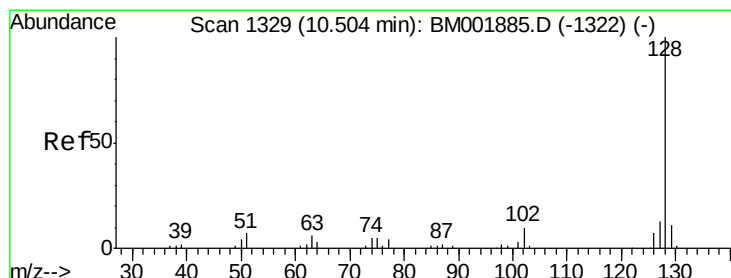
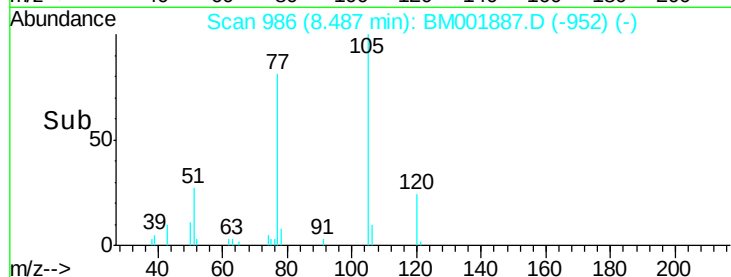
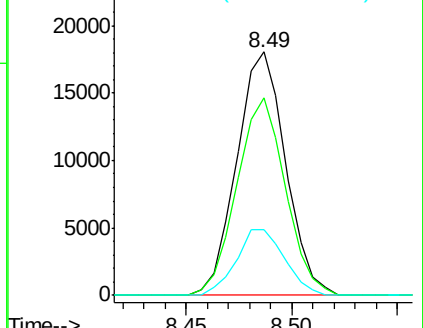
51 26.8 22.0 33.0



Abundance Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BM0

Ion 51.00 (50.70 to 51.70): BM0



#28

Naphthalene

Concen: 7.56 ng/ul

RT: 10.50 min Scan# 1329

Delta R.T. 0.00 min

Lab File: BM001887.D

Acq: 09 Jul 2015 16:51

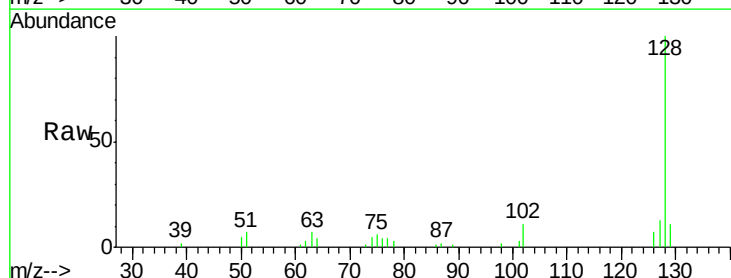
Tgt Ion:128 Resp: 48232

Ion Ratio Lower Upper

128 100

129 10.6 8.7 13.1

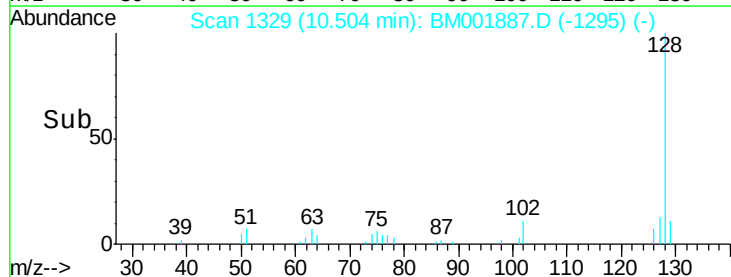
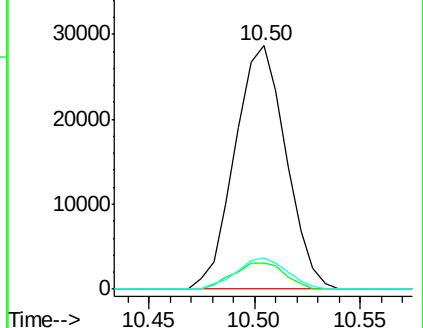
127 12.7 10.0 15.0

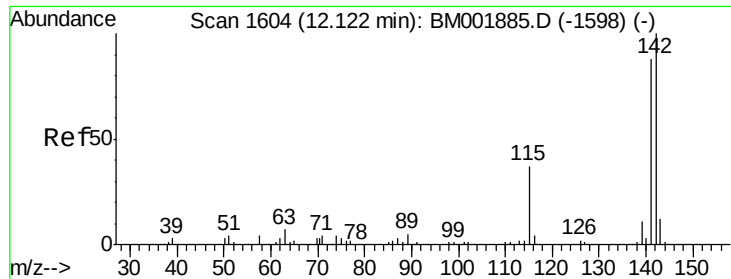


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

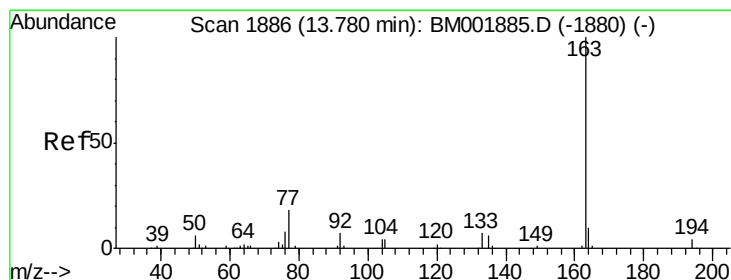
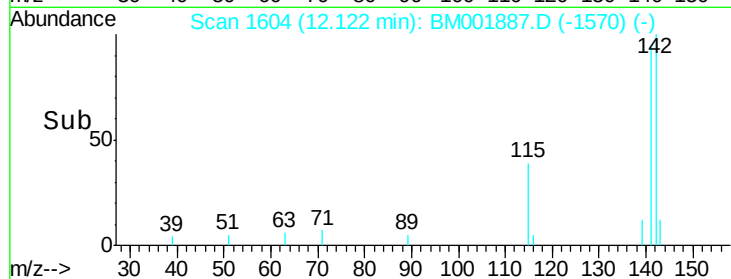
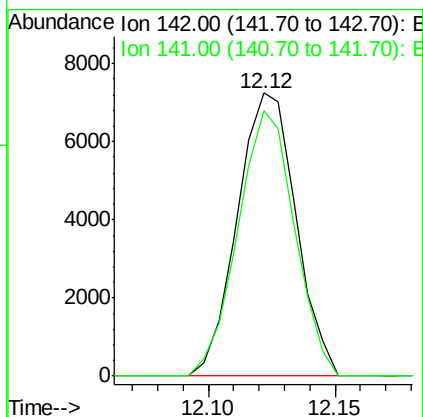
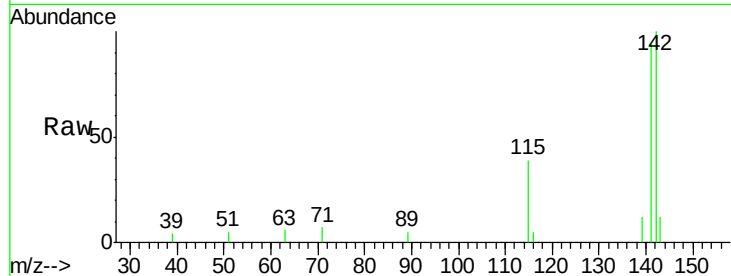




#34
 2-Methylnaphthalene
 Concen: 2.53 ng/ul
 RT: 12.12 min Scan# 1604
 Delta R.T. 0.00 min
 Lab File: BM001887.D
 Acq: 09 Jul 2015 16:51

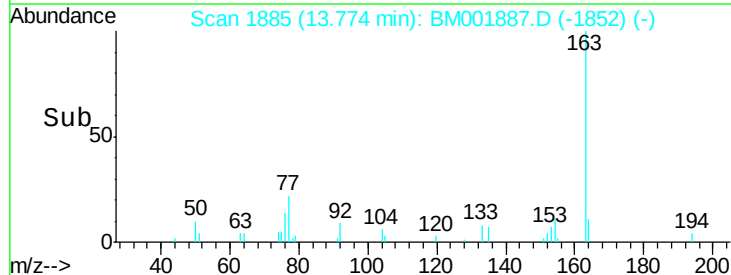
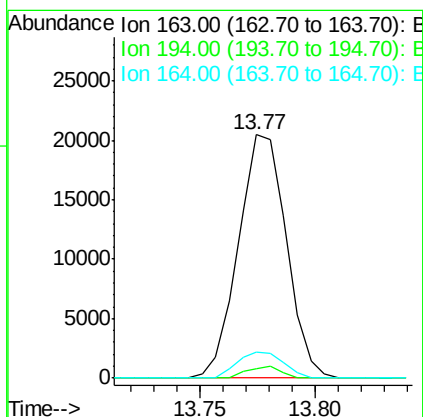
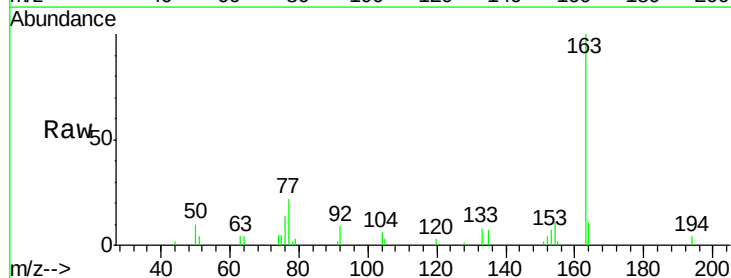
Instrument :
 BNA_M
 ClientSampleId :
 G93H9

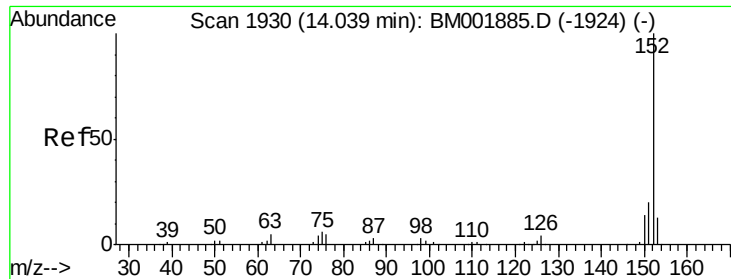
Tgt Ion:142 Resp: 11684
 Ion Ratio Lower Upper
 142 100
 141 93.9 71.6 107.4



#44
 Dimethylphthalate
 Concen: 5.03 ng/ul
 RT: 13.77 min Scan# 1885
 Delta R.T. -0.01 min
 Lab File: BM001887.D
 Acq: 09 Jul 2015 16:51

Tgt Ion:163 Resp: 29679
 Ion Ratio Lower Upper
 163 100
 194 4.0 3.6 5.4
 164 10.8 8.0 12.0





#47

Acenaphthylene

Concen: 7.41 ng/ul

RT: 14.04 min Scan# 1930

Delta R.T. 0.00 min

Lab File: BM001887.D

Acq: 09 Jul 2015 16:51

Instrument :

BNA_M

ClientSampleId :

G93H9

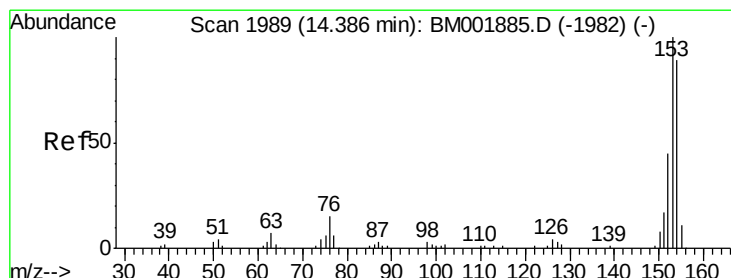
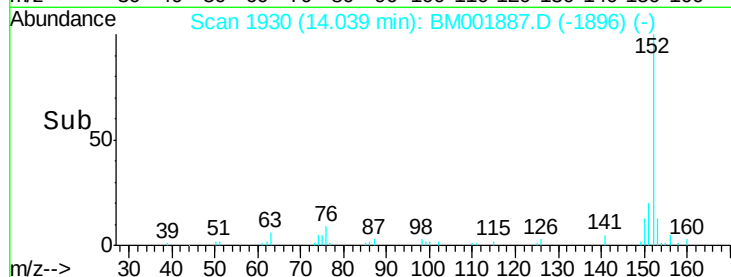
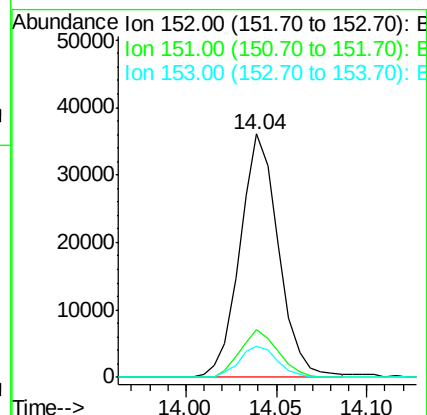
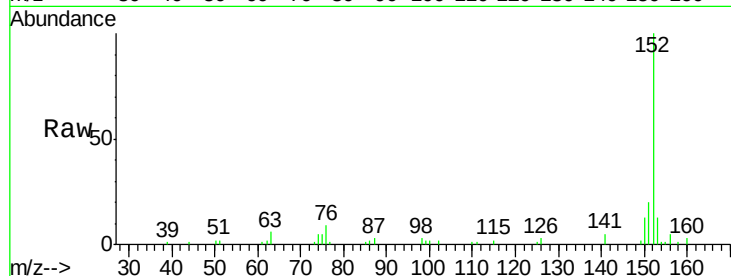
Tgt Ion:152 Resp: 53476

Ion Ratio Lower Upper

152 100

151 19.7 15.9 23.9

153 12.7 10.0 15.0



#49

Acenaphthene

Concen: 7.22 ng/ul

RT: 14.39 min Scan# 1989

Delta R.T. 0.00 min

Lab File: BM001887.D

Acq: 09 Jul 2015 16:51

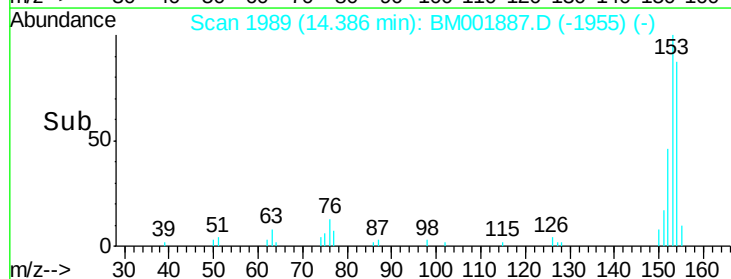
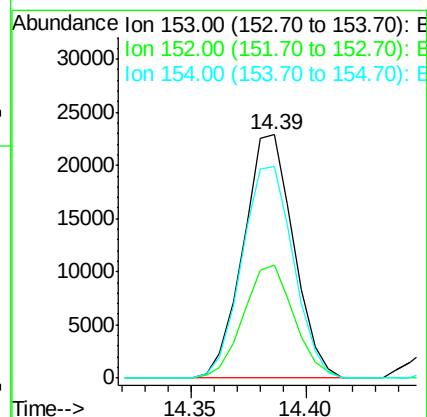
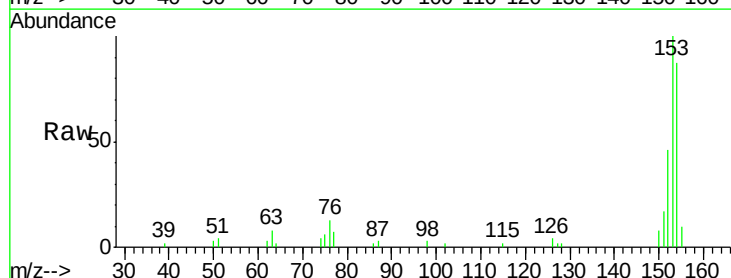
Tgt Ion:153 Resp: 34814

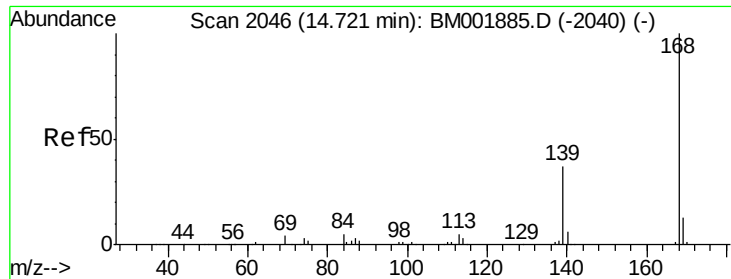
Ion Ratio Lower Upper

153 100

152 46.3 36.6 55.0

154 86.7 72.6 108.8

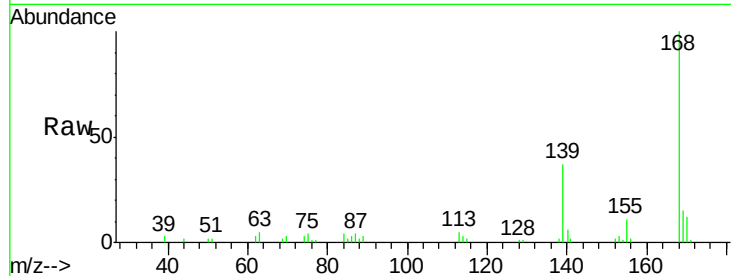




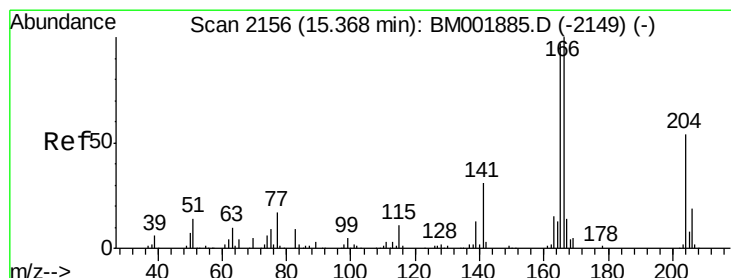
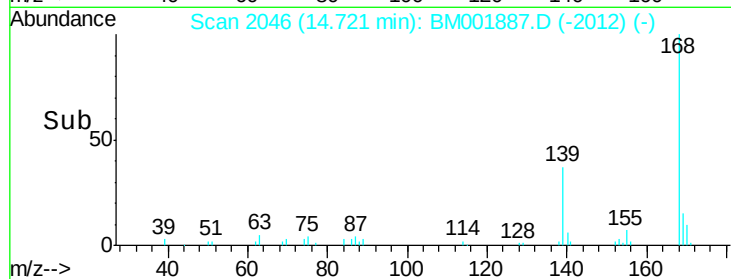
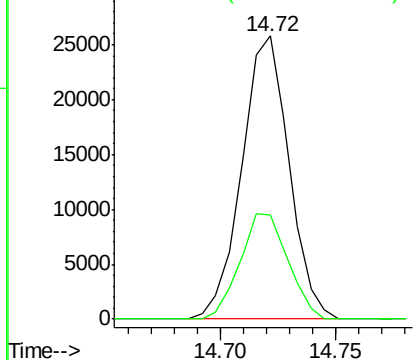
#53
Dibenzenofuran
Concen: 5.32 ng/ul
RT: 14.72 min Scan# 2046
Delta R.T. 0.00 min
Lab File: BM001887.D
Acq: 09 Jul 2015 16:51

Instrument :
BNA_M
ClientSampleId :
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Tgt Ion:168 Resp: 36758
Ion Ratio Lower Upper
168 100
139 37.0 30.1 45.1

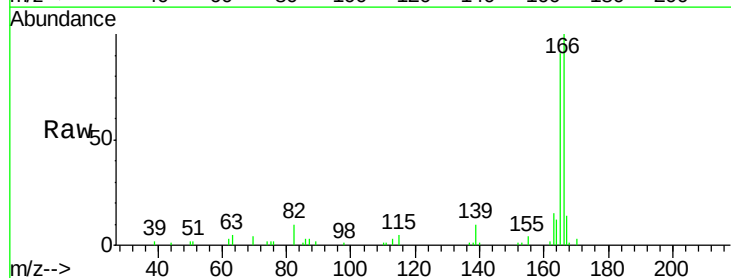


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E

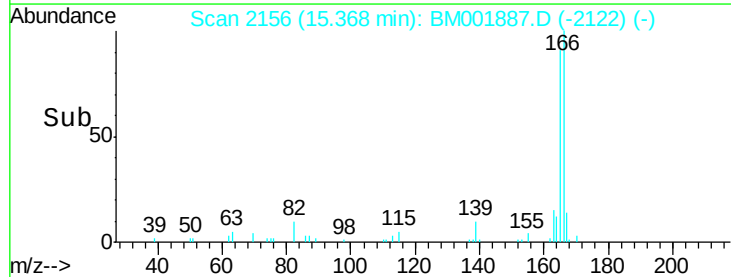
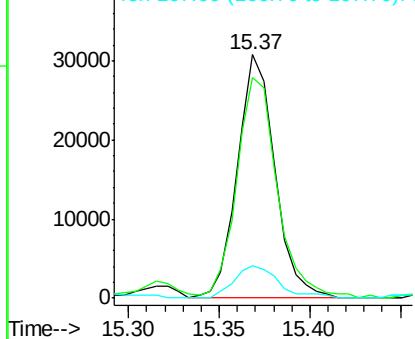


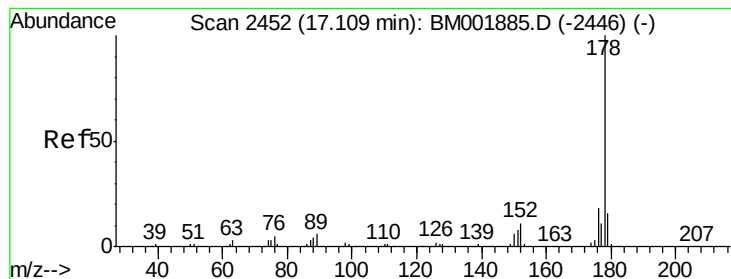
#58
Fluorene
Concen: 7.72 ng/ul
RT: 15.37 min Scan# 2156
Delta R.T. 0.00 min
Lab File: BM001887.D
Acq: 09 Jul 2015 16:51

Tgt Ion:166 Resp: 44384
Ion Ratio Lower Upper
166 100
165 90.5 77.4 116.2
167 13.5 11.3 16.9



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





#69

Phenanthrene

Concen: 94.93 ng/ul

RT: 17.12 min Scan# 2453

Delta R.T. 0.01 min

Lab File: BM001887.D

Acq: 09 Jul 2015 16:51

Instrument :

BNA_M

ClientSampleId :

G93H9

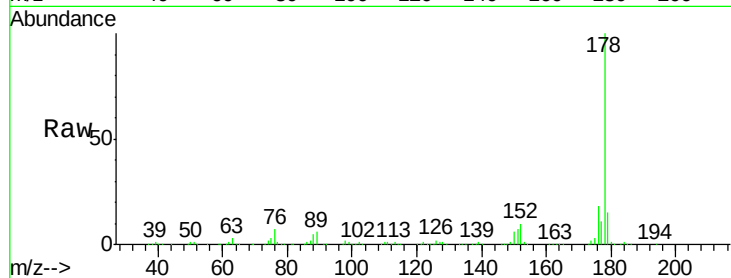
Tgt Ion:178 Resp: 866153

Ion Ratio Lower Upper

178 100

179 15.1 11.9 17.9

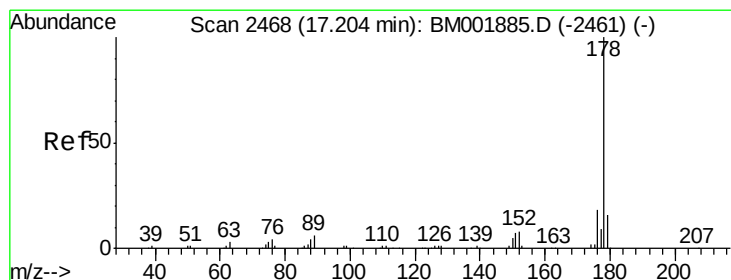
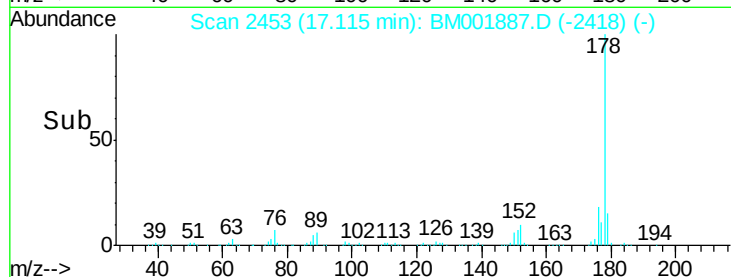
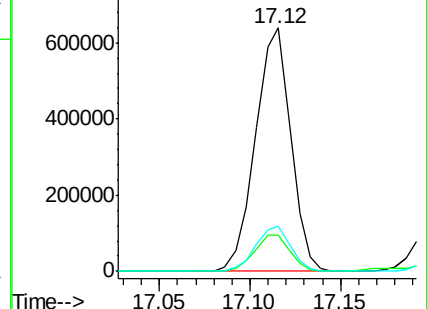
176 18.4 15.2 22.8



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#71

Anthracene

Concen: 18.88 ng/ul

RT: 17.20 min Scan# 2467

Delta R.T. -0.01 min

Lab File: BM001887.D

Acq: 09 Jul 2015 16:51

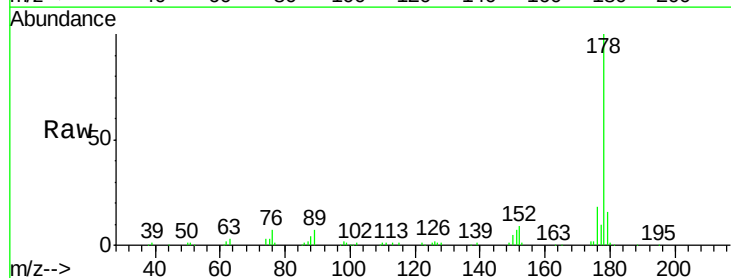
Tgt Ion:178 Resp: 176853

Ion Ratio Lower Upper

178 100

179 15.6 11.8 17.8

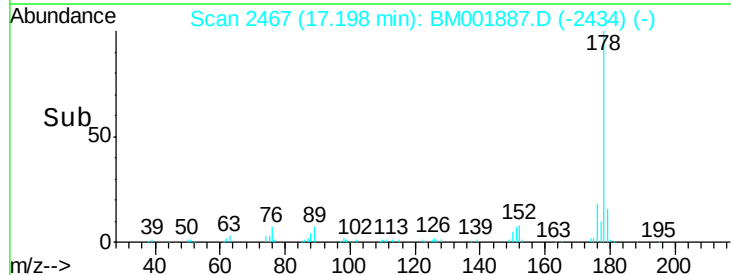
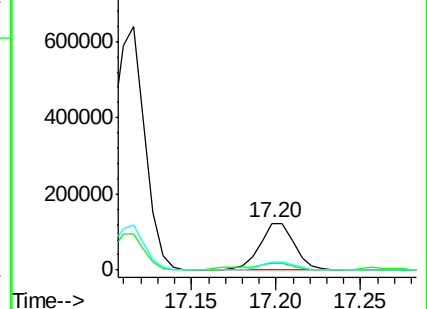
176 17.6 14.4 21.6

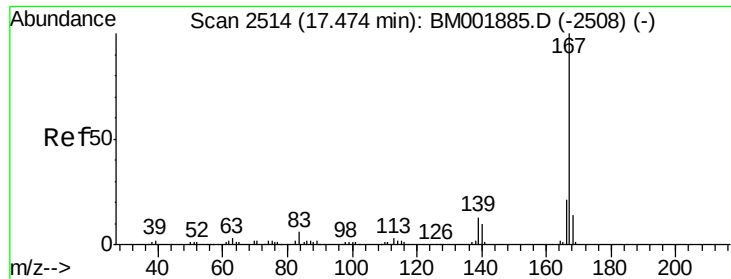


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

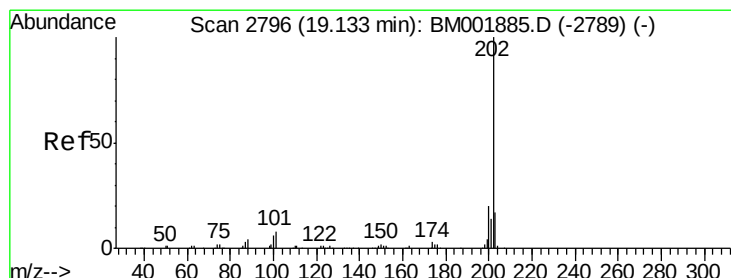
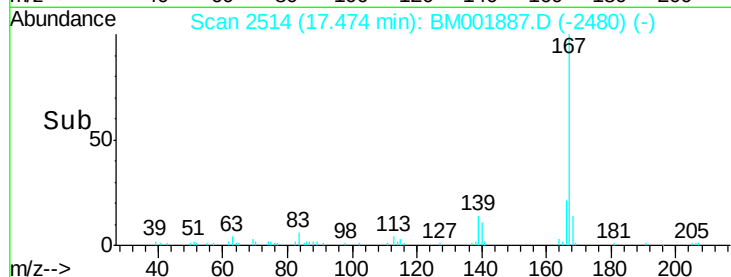
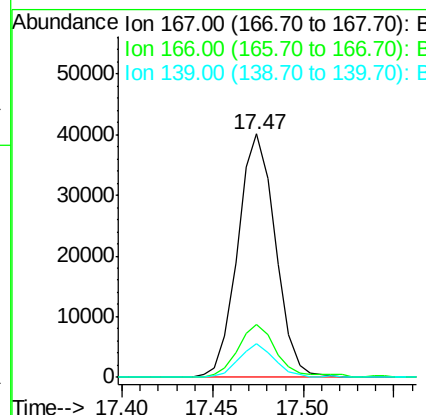
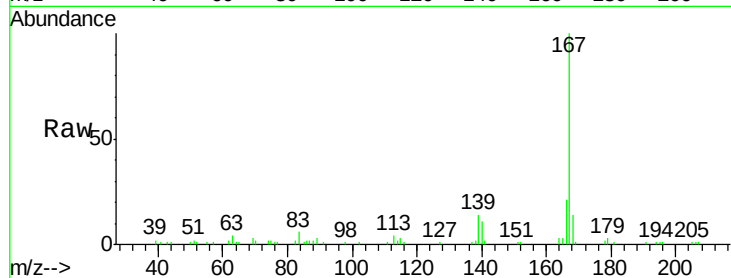




#74
 Carbazole
 Concen: 7.04 ng/ul
 RT: 17.47 min Scan# 2514
 Delta R.T. 0.00 min
 Lab File: BM001887.D
 Acq: 09 Jul 2015 16:51

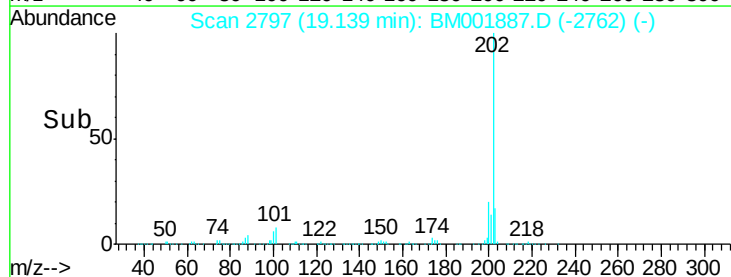
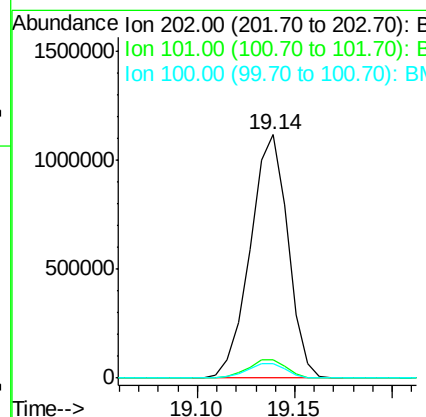
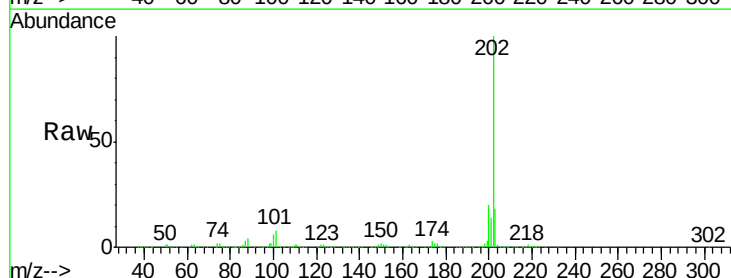
Instrument :
 BNA_M
 ClientSampled :
 G93H9

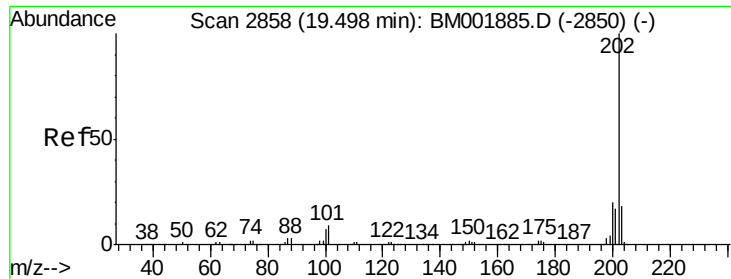
Tgt Ion:167 Resp: 57857
 Ion Ratio Lower Upper
 167 100
 166 21.5 17.4 26.2
 139 14.1 10.1 15.1



#76
 Fluoranthene
 Concen: 136.31 ng/ul
 RT: 19.14 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: BM001887.D
 Acq: 09 Jul 2015 16:51

Tgt Ion:202 Resp: 1487494
 Ion Ratio Lower Upper
 202 100
 101 7.7 6.1 9.1
 100 6.2 4.8 7.2





#79

Pyrene

Concen: 137.65 ng/ul

RT: 19.50 min Scan# 2859

Delta R.T. 0.01 min

Lab File: BM001887.D

Acq: 09 Jul 2015 16:51

Instrument :

BNA_M

ClientSampleId :

G93H9

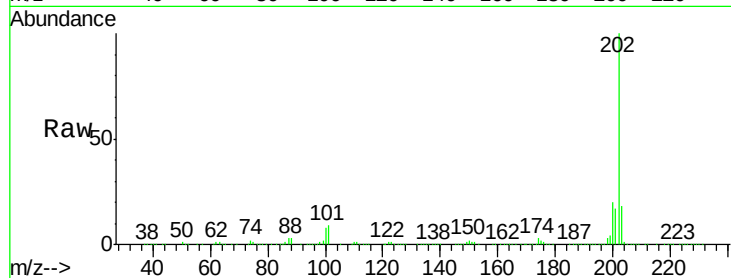
Tgt Ion:202 Resp: 1473962

Ion Ratio Lower Upper

202 100

101 9.1 6.9 10.3

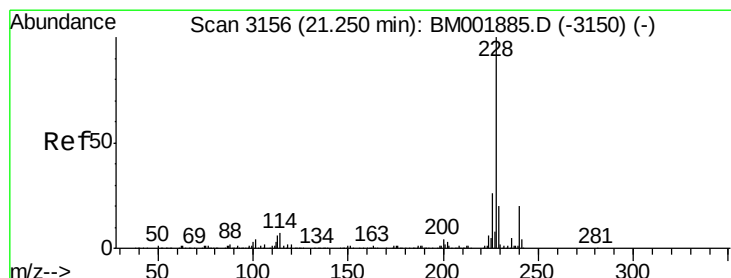
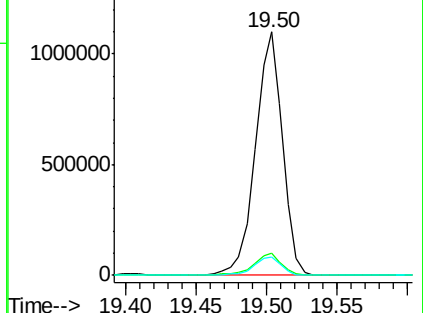
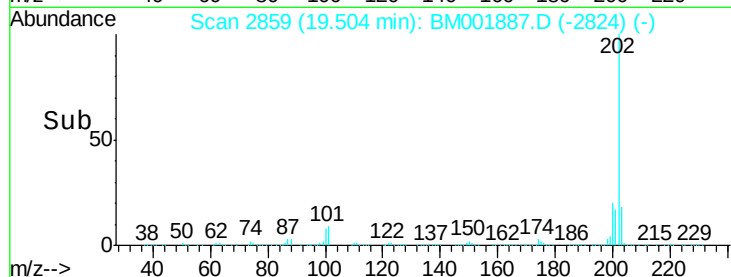
100 7.7 6.2 9.2



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#82

Benzo(a)anthracene

Concen: 62.18 ng/ul

RT: 21.25 min Scan# 3156

Delta R.T. 0.00 min

Lab File: BM001887.D

Acq: 09 Jul 2015 16:51

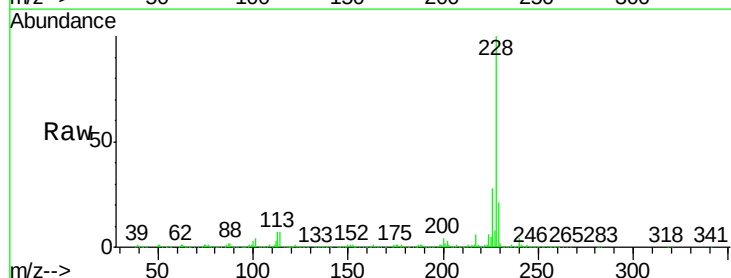
Tgt Ion:228 Resp: 701224

Ion Ratio Lower Upper

228 100

229 20.5 15.4 23.0

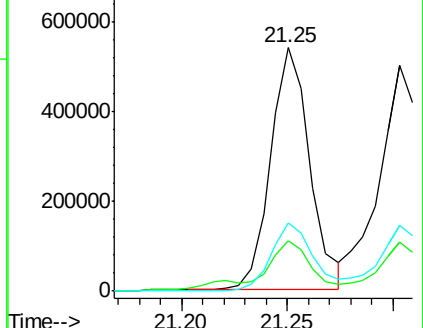
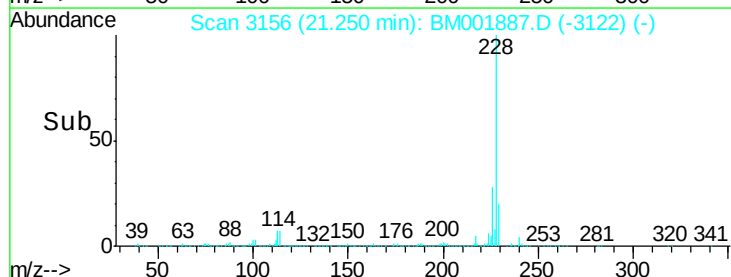
226 27.8 20.6 30.8

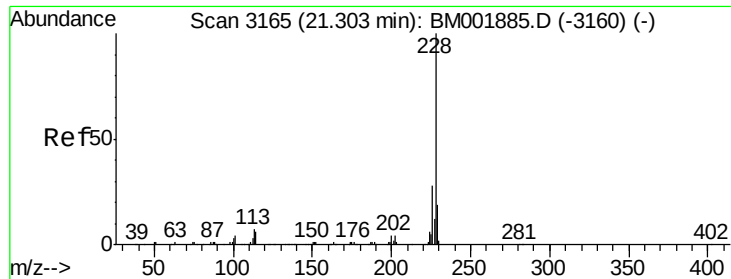


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#84

Chrysene

Concen: 62.88 ng/ul

RT: 21.30 min Scan# 3165

Delta R.T. 0.00 min

Lab File: BM001887.D

Acq: 09 Jul 2015 16:51

Instrument :

BNA_M

ClientSampleId :

G93H9

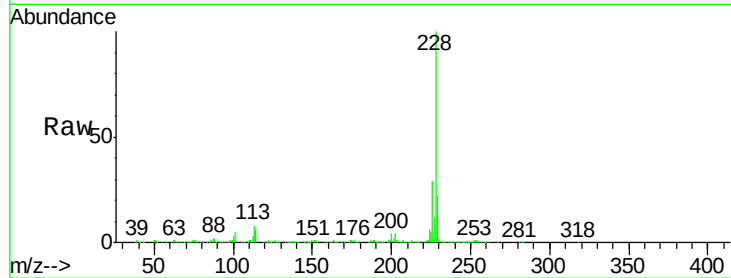
Tgt Ion:228 Resp: 672153

Ion Ratio Lower Upper

228 100

226 29.2 23.0 34.4

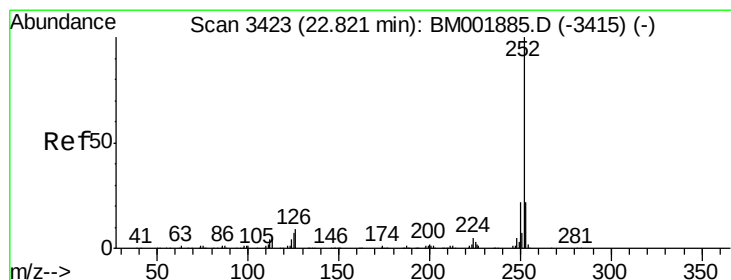
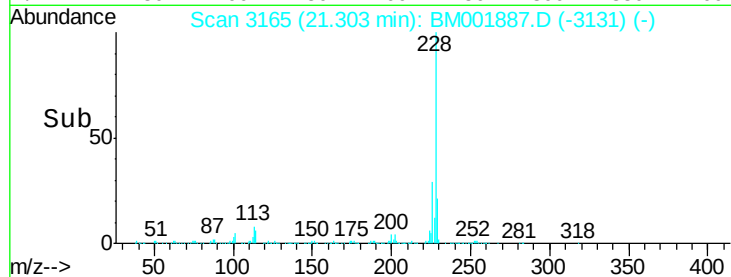
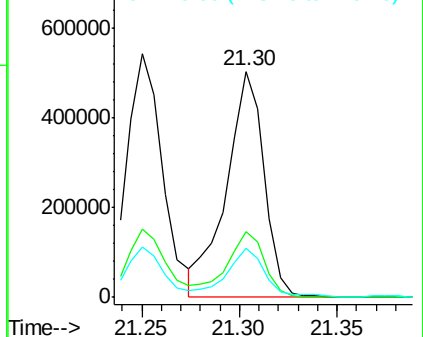
229 21.6 15.4 23.2



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



#87

Benzo(b)fluoranthene

Concen: 71.11 ng/ul

RT: 22.83 min Scan# 3425

Delta R.T. 0.01 min

Lab File: BM001887.D

Acq: 09 Jul 2015 16:51

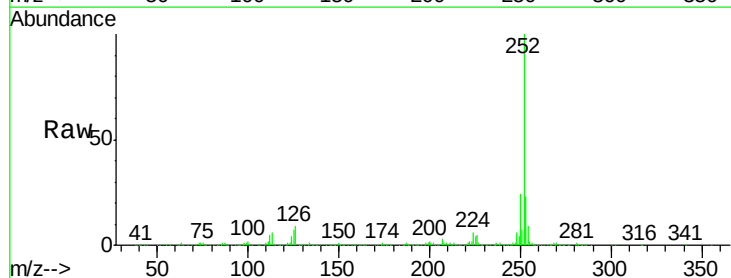
Tgt Ion:252 Resp: 830049

Ion Ratio Lower Upper

252 100

253 23.0 17.8 26.6

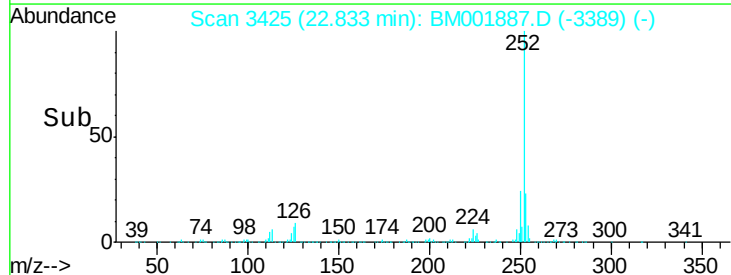
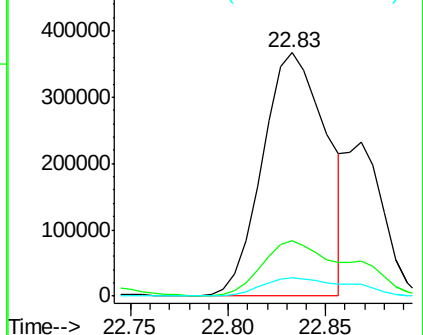
125 7.4 5.3 7.9

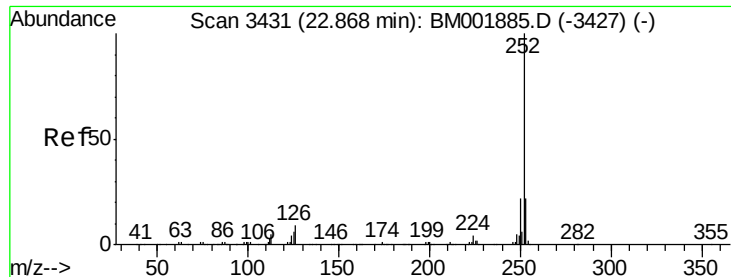


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 28.67 ng/ul

RT: 22.83 min Scan# 3425

Delta R.T. -0.04 min

Lab File: BM001887.D

Acq: 09 Jul 2015 16:51

Instrument :

BNA_M

ClientSampleId :

G93H9

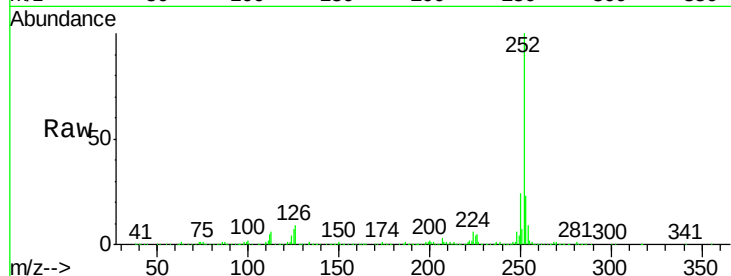
Tgt Ion:252 Resp: 323382

Ion Ratio Lower Upper

252 100

253 23.0 17.1 25.7

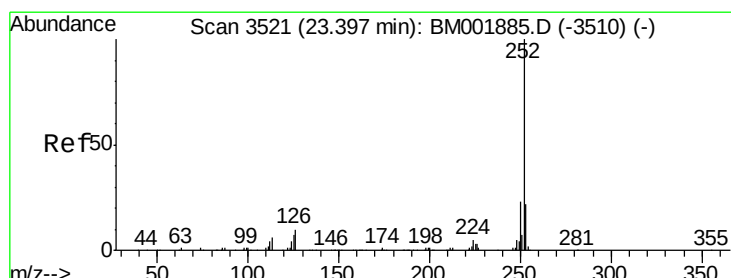
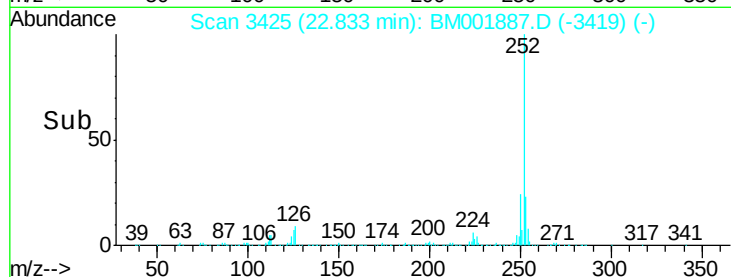
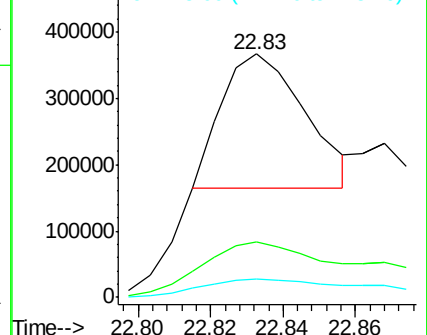
125 7.4 5.3 7.9



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Benzo(a)pyrene

Concen: 54.55 ng/ul

RT: 23.40 min Scan# 3522

Delta R.T. 0.01 min

Lab File: BM001887.D

Acq: 09 Jul 2015 16:51

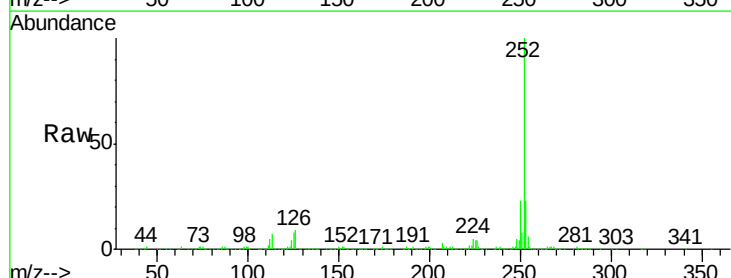
Tgt Ion:252 Resp: 619422

Ion Ratio Lower Upper

252 100

253 22.6 17.4 26.0

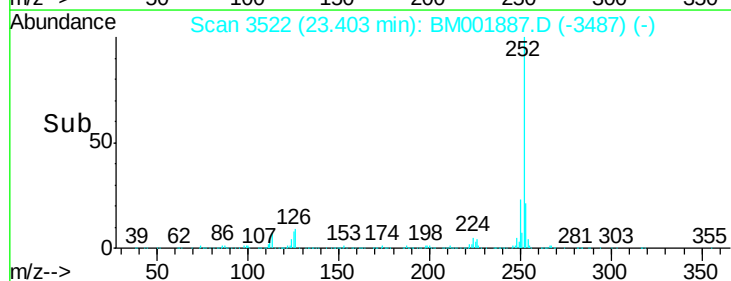
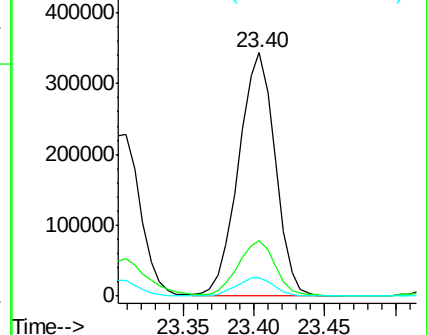
125 7.7 6.0 9.0

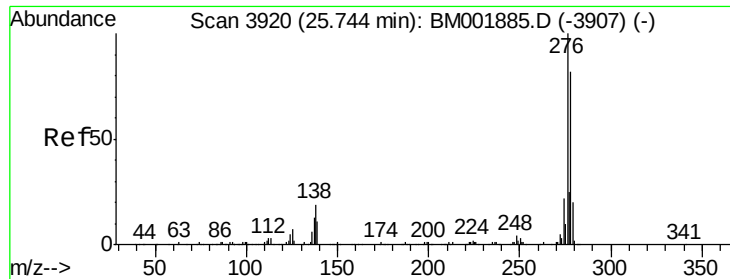


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

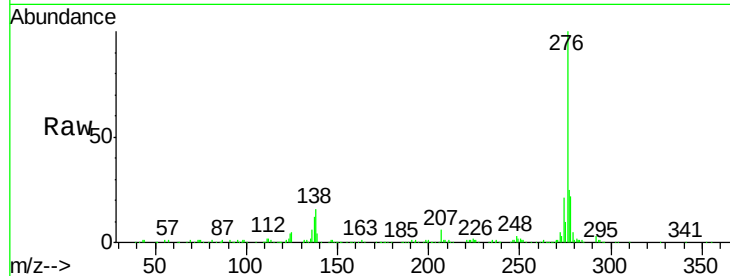




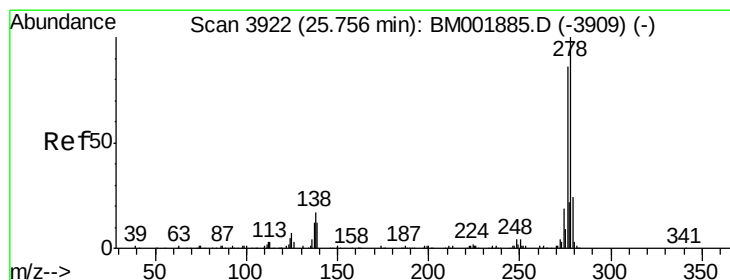
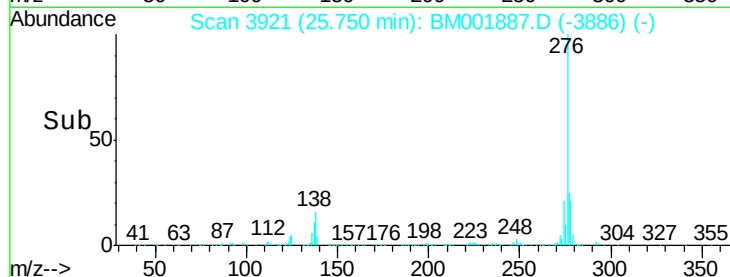
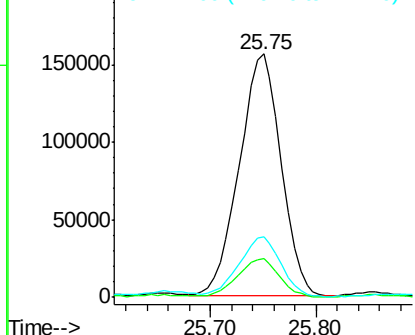
#91
 Indeno(1,2,3-cd)pyrene
 Concen: 31.89 ng/ul
 RT: 25.75 min Scan# 3921
 Delta R.T. 0.01 min
 Lab File: BM001887.D
 Acq: 09 Jul 2015 16:51

Instrument :
 BNA_M
 ClientSampleId :
 G93H9

Tgt Ion	Ratio	Lower	Upper
276	100		
138	16.2	14.7	22.1
277	24.8	19.7	29.5

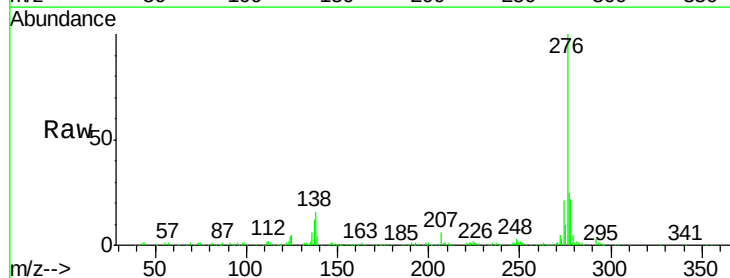


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

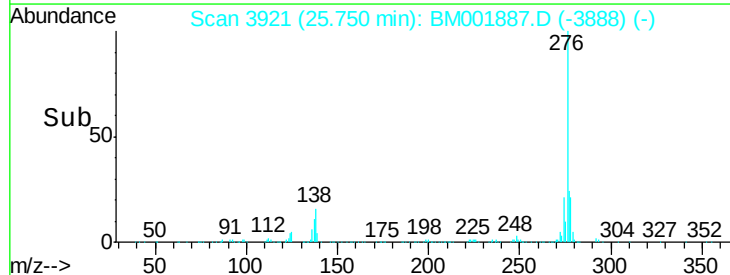
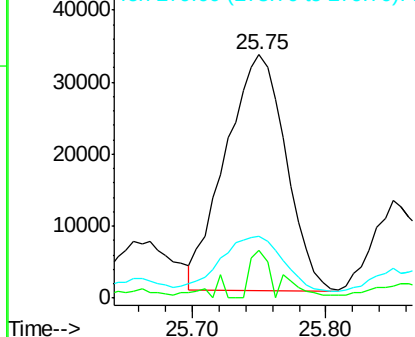


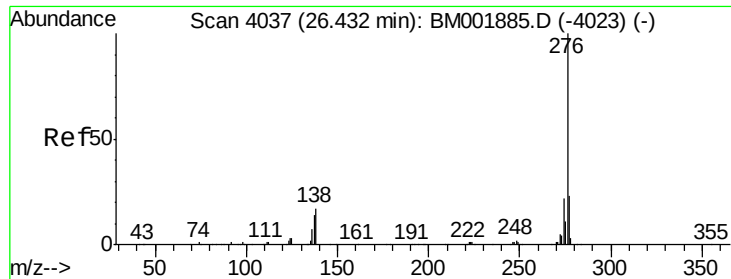
#92
 Dibenzo(a,h)anthracene
 Concen: 9.03 ng/ul
 RT: 25.75 min Scan# 3921
 Delta R.T. -0.01 min
 Lab File: BM001887.D
 Acq: 09 Jul 2015 16:51

Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.4	9.2	13.8#
279	25.4	19.1	28.7



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





#93

Benzo(g,h,i)perylene

Concen: 17.75 ng/ul

RT: 26.44 min Scan# 4038

Delta R.T. 0.01 min

Lab File: BM001887.D

Acq: 09 Jul 2015 16:51

Instrument :

BNA_M

ClientSampleId :

G93H9

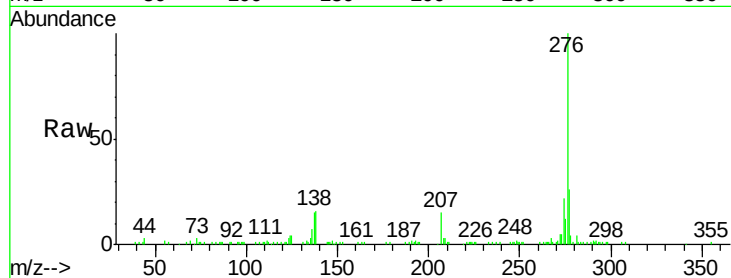
Tgt Ion: 276 Resp: 200974

Ion Ratio Lower Upper

276 100

138 15.9 12.6 19.0

277 25.9 18.7 28.1



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

