

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM080315\
 Data File : BM002208.D
 Acq On : 03 Aug 2015 21:39
 Operator : TP/UM
 Sample : G3095-08
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C01R8

Quant Time: Aug 04 02:38:57 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM072715.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 04 02:31:26 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.53	152	112274	20.00	ng/ul	0.00
18) Naphthalene-d8	10.32	136	475534	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.21	164	281756	20.00	ng/ul	0.00
62) Phenanthrene-d10	16.97	188	534996	20.00	ng/ul	0.01
78) Chrysene-d12	21.19	240	532935	20.00	ng/ul	0.02
86) Perylene-d12	23.39	264	547950	20.00	ng/ul	0.04

System Monitoring Compounds

3) 1,4-Dioxane-d8	2.98	96	2290	1.06	ng/uL	0.00
5) Phenol-d5	6.73	99	82557	10.29	ng/ul	0.01
7) Bis-(2-Chloroethyl)ether-d	6.87	67	42311	9.53	ng/ul	0.00
9) 2-Chlorophenol-d4	7.07	132	68807	10.11	ng/ul	0.00
13) 4-Methylphenol-d8	8.26	113	67842	10.63	ng/ul	0.01
19) Nitrobenzene-d5	8.70	128	34983	10.35	ng/ul	0.00
22) 2-Nitrophenol-d4	9.42	143	39371	10.48	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.96	165	77847	10.76	ng/ul	0.00
29) 4-Chloroaniline-d4	10.47	131	45214	5.69	ng/ul	0.00
44) Dimethylphthalate-d6	13.62	166	223951	10.85	ng/ul	0.00
47) Acenaphthylene-d8	13.90	160	277900	10.77	ng/ul	0.00
52) 4-Nitrophenol-d4	14.46	143	25583	7.43	ng/ul	0.02
58) Fluorene-d10	15.21	176	194109	10.69	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.37	200	702	0.21	ng/ul	0.02
71) Anthracene-d10	17.07	188	261113	10.93	ng/ul	0.01
79) Pyrene-d10	19.38	212	244820	10.91	ng/ul	0.02
90) Benzo(a)pyrene-d12	23.24	264	277736	10.46	ng/ul	0.04

Target Compounds

						Qvalue
28) Naphthalene	10.37	128	95662	4.23	ng/ul	98
34) 2-Methylnaphthalene	12.00	142	34407	2.09	ng/ul	95
35) 1-Methylnaphthalene	12.22	142	33000	2.09	ng/ul	99
45) Dimethylphthalate	13.67	163	68206	3.31	ng/ul	99
48) Acenaphthylene	13.93	152	304916	11.45	ng/ul	99
50) Acenaphthene	14.27	153	166110	9.52	ng/ul	98
54) Dibenzofuran	14.61	168	108690	4.34	ng/ul	97
59) Fluorene	15.26	166	198383	9.59	ng/ul	99
70) Phenanthrene	17.02	178	3413820	123.19	ng/ul	99
72) Anthracene	17.10	178	855396	30.19	ng/ul	99
75) Carbazole	17.38	167	210529	8.70	ng/ul	98
77) Fluoranthene	19.19	202	115874	3.62	ng/ul	99
80) Pyrene	19.43	202	5583717	192.54	ng/ul	97
83) Benzo(a)anthracene	21.17	228	3082985	104.36	ng/ul	95
84) Bis(2-ethylhexyl)phthalate	21.09	149	2670918	157.51	ng/ul	100
85) Chrysene	21.23	228	2940433	106.38	ng/ul	95
88) Benzo(b)fluoranthene	22.74	252	3736603	121.36	ng/ul	97
89) Benzo(k)fluoranthene	22.74	252	1656604	55.76	ng/ul	98
91) Benzo(a)pyrene	23.30	252	2837326	95.47	ng/ul	98
92) Indeno(1,2,3-cd)pyrene	25.62	276	1851814	54.07	ng/ul#	95
93) Dibenzo(a,h)anthracene	25.60	278	532391	18.16	ng/ul#	92
94) Benzo(g,h,i)perylene	26.31	276	1671061	58.21	ng/ul	97

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM080315\
Data File : BM002208.D
Acq On : 03 Aug 2015 21:39
Operator : TP/UM
Sample : G3095-08
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C01R8

Quant Time: Aug 04 02:38:57 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM072715.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Aug 04 02:31:26 2015
Response via : Initial Calibration

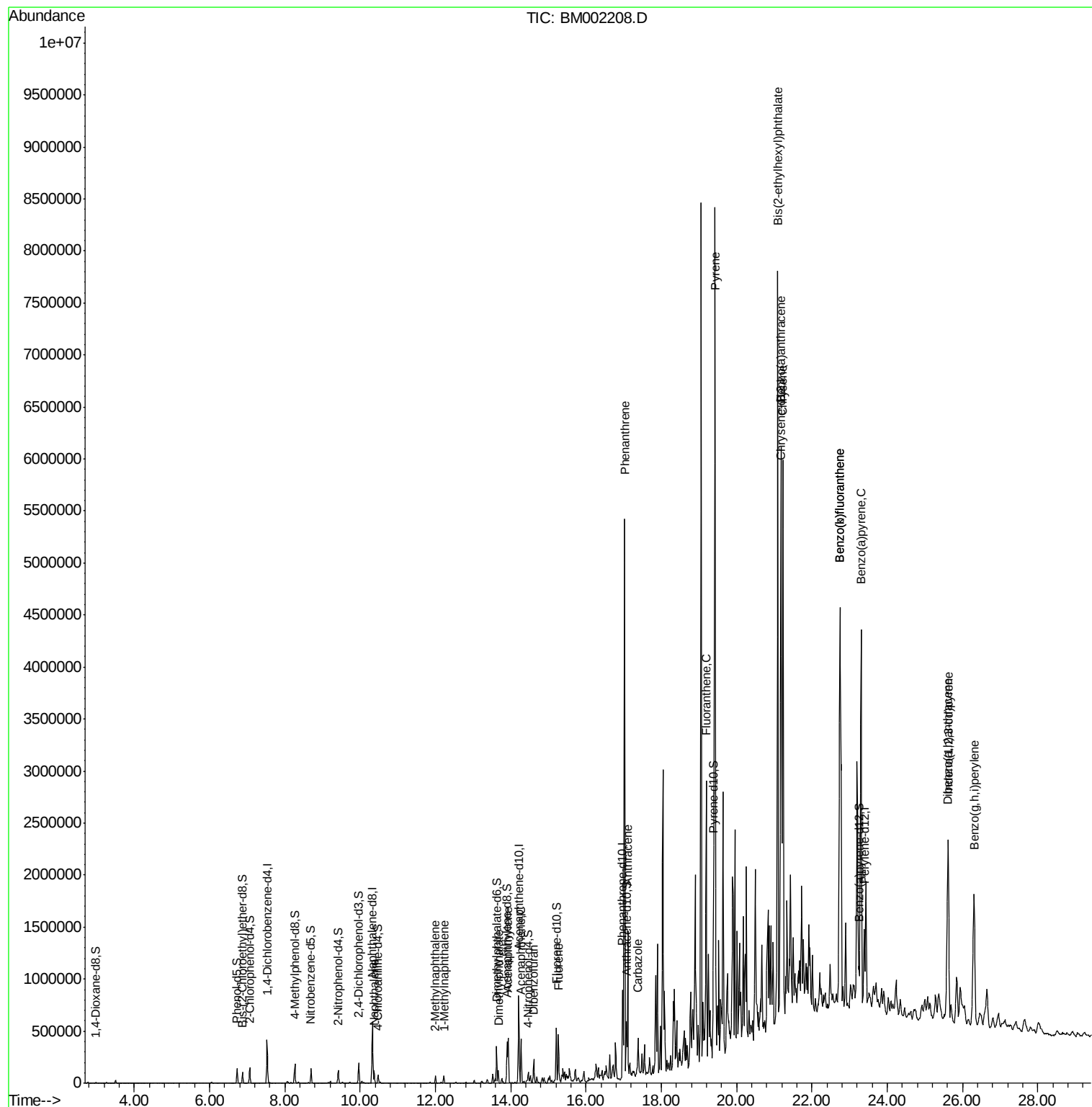
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

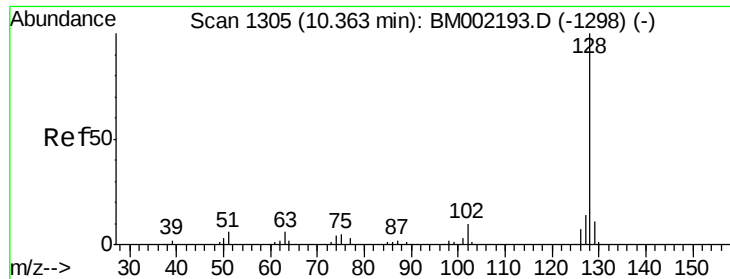
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM080315\
Data File : BM002208.D
Acq On : 03 Aug 2015 21:39
Operator : TP/UM
Sample : G3095-08
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C01R8

Quant Time: Aug 04 02:38:57 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM072715.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Aug 04 02:31:26 2015
Response via : Initial Calibration

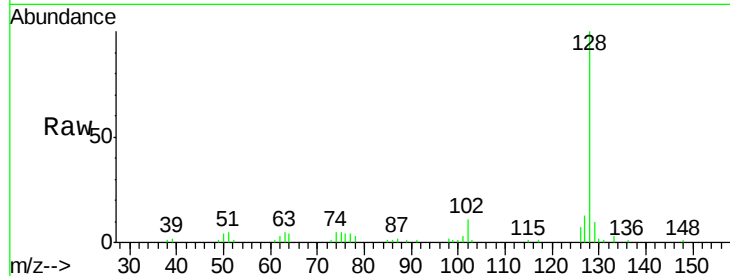




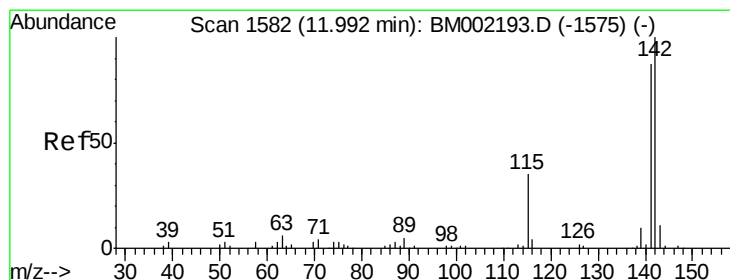
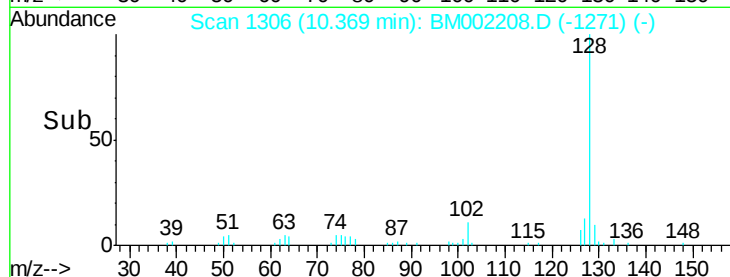
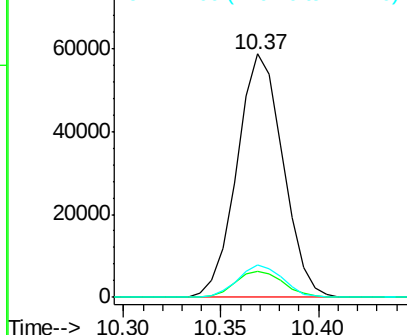
#28
Naphthalene
Concen: 4.23 ng/ul
RT: 10.37 min Scan# 1306
Delta R.T. 0.01 min
Lab File: BM002208.D
Acq: 03 Aug 2015 21:39

Instrument :
BNA_M
ClientSampleId :
C01R8

Tgt Ion:128 Resp: 95662
Ion Ratio Lower Upper
128 100
129 10.5 9.0 13.4
127 13.3 10.2 15.4

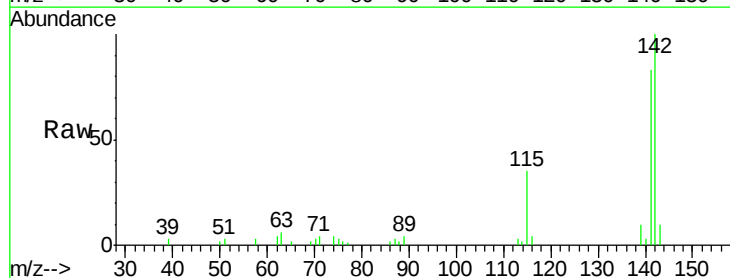


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

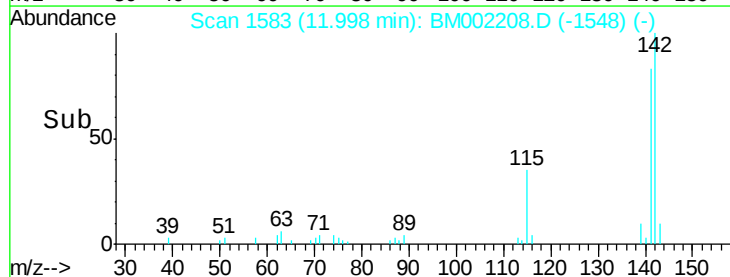
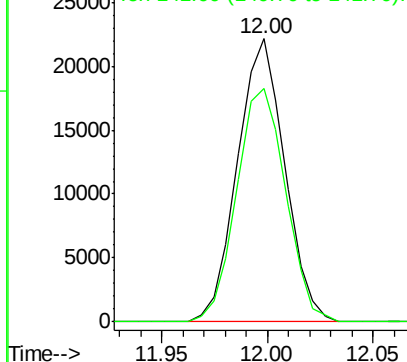


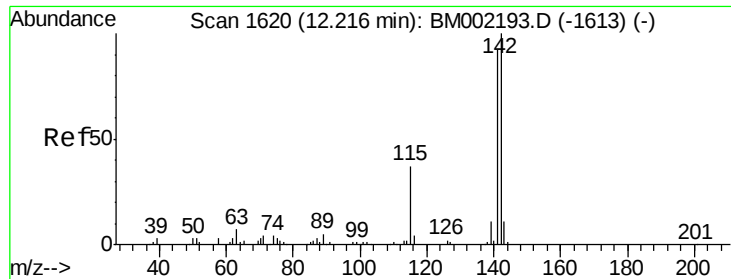
#34
2-Methylnaphthalene
Concen: 2.09 ng/ul
RT: 12.00 min Scan# 1583
Delta R.T. 0.01 min
Lab File: BM002208.D
Acq: 03 Aug 2015 21:39

Tgt Ion:142 Resp: 34407
Ion Ratio Lower Upper
142 100
141 82.6 69.8 104.6



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E

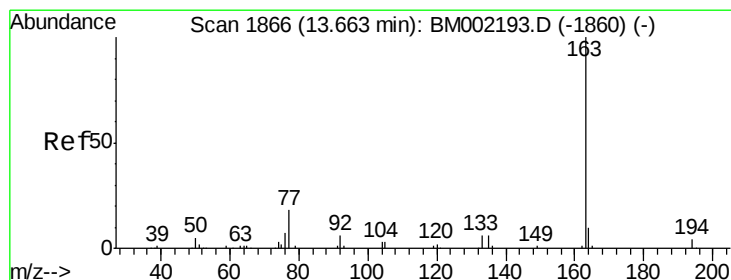
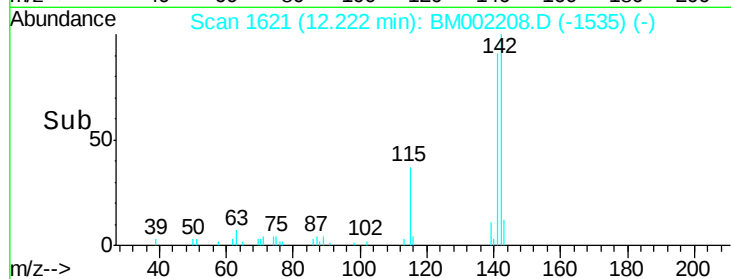
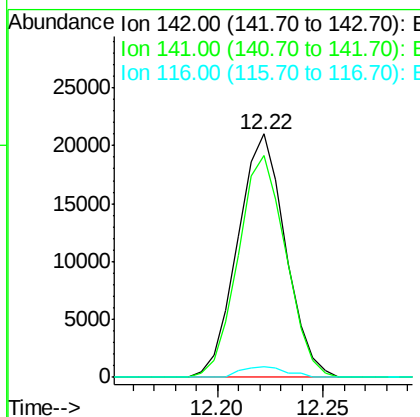
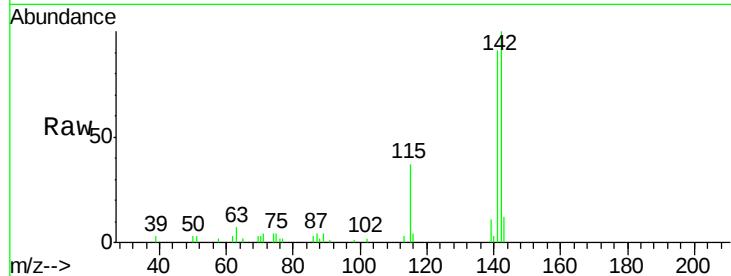




#35
 1-Methylnaphthalene
 Concen: 2.09 ng/ul
 RT: 12.22 min Scan# 1621
 Delta R.T. 0.01 min
 Lab File: BM002208.D
 Acq: 03 Aug 2015 21:39

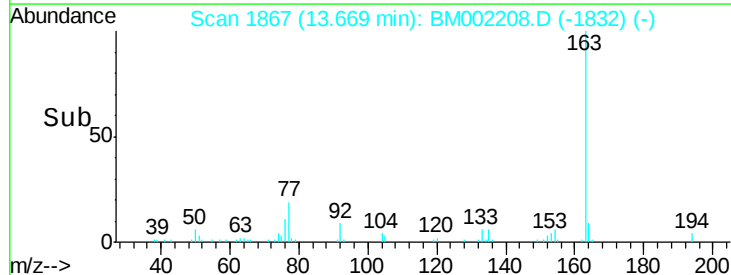
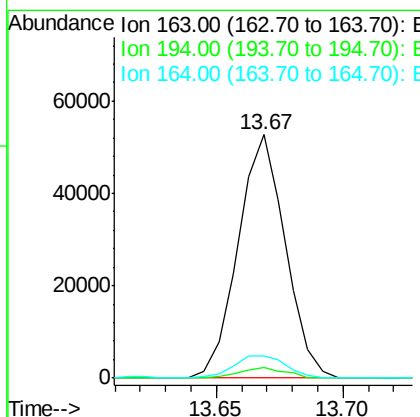
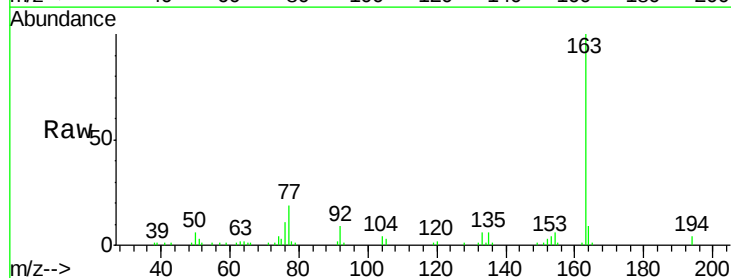
Instrument :
 BNA_M
 ClientSampled :
 C01R8

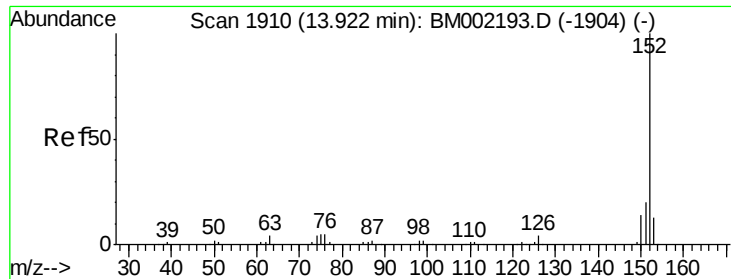
Tgt Ion:142 Resp: 33000
 Ion Ratio Lower Upper
 142 100
 141 91.0 72.4 108.6
 116 4.2 3.2 4.8



#45
 Dimethylphthalate
 Concen: 3.31 ng/ul
 RT: 13.67 min Scan# 1867
 Delta R.T. 0.01 min
 Lab File: BM002208.D
 Acq: 03 Aug 2015 21:39

Tgt Ion:163 Resp: 68206
 Ion Ratio Lower Upper
 163 100
 194 4.5 3.5 5.3
 164 9.4 8.0 12.0





#48

Acenaphthylene

Concen: 11.45 ng/ul

RT: 13.93 min Scan# 1911

Delta R.T. 0.01 min

Lab File: BM002208.D

Acq: 03 Aug 2015 21:39

Instrument :

BNA_M

ClientSampleId :

C01R8

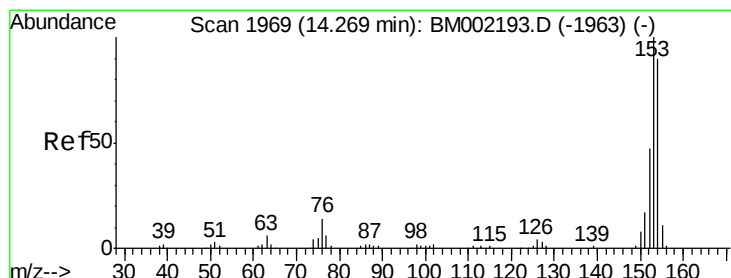
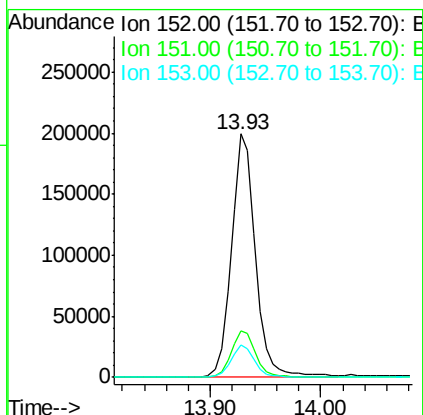
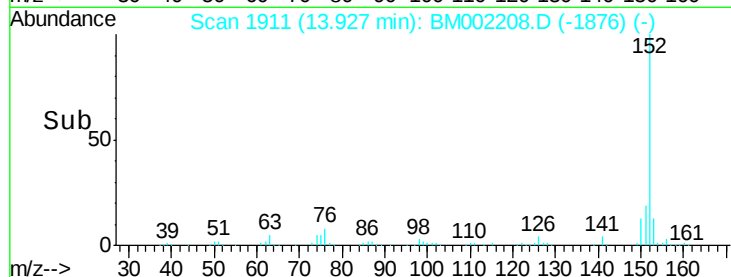
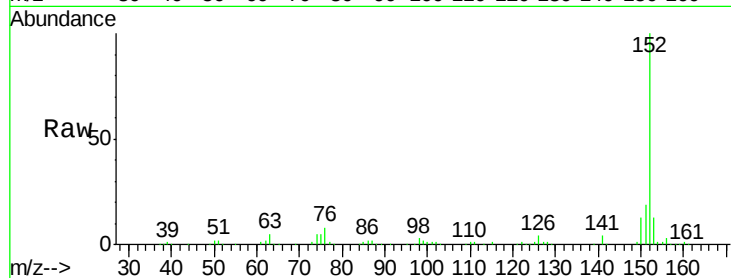
Tgt Ion:152 Resp: 304916

Ion Ratio Lower Upper

152 100

151 19.1 15.6 23.4

153 13.4 10.3 15.5



#50

Acenaphthene

Concen: 9.52 ng/ul

RT: 14.27 min Scan# 1970

Delta R.T. 0.01 min

Lab File: BM002208.D

Acq: 03 Aug 2015 21:39

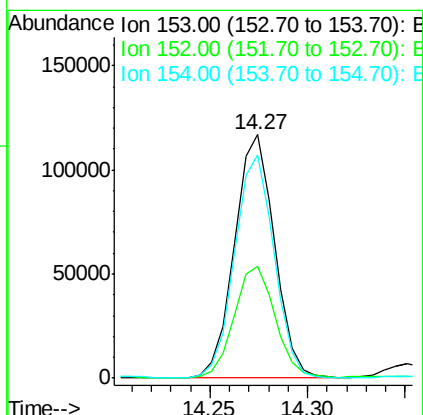
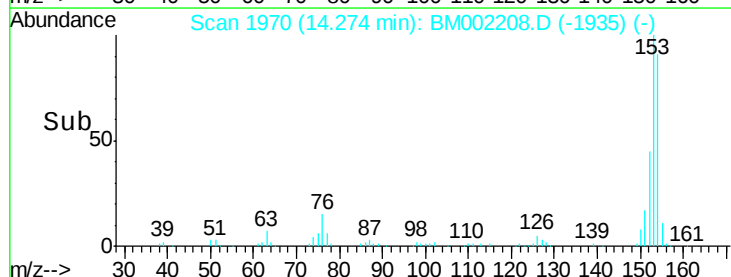
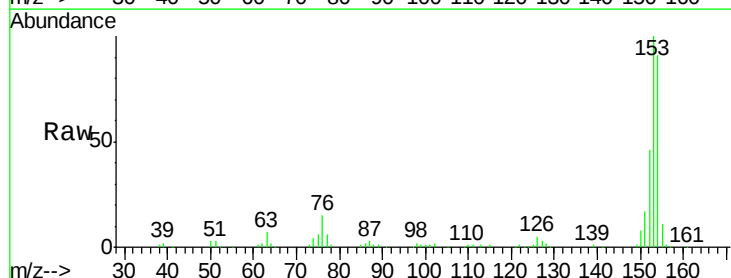
Tgt Ion:153 Resp: 166110

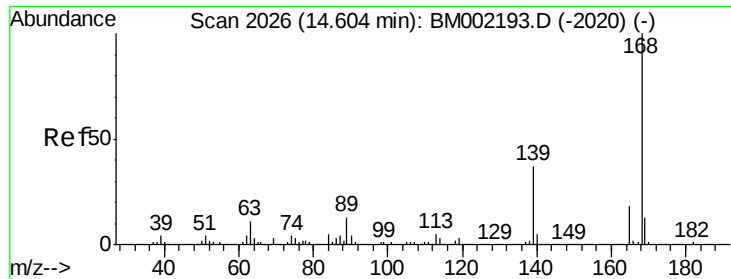
Ion Ratio Lower Upper

153 100

152 46.1 37.3 55.9

154 91.5 71.4 107.2





#54

Dibenzenofuran

Concen: 4.34 ng/ul

RT: 14.61 min Scan# 2027

Delta R.T. 0.01 min

Lab File: BM002208.D

Acq: 03 Aug 2015 21:39

Instrument :

BNA_M

ClientSampleId :

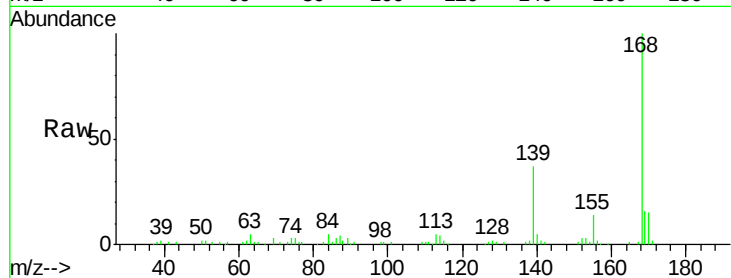
C01R8

Tgt Ion:168 Resp: 108690

Ion Ratio Lower Upper

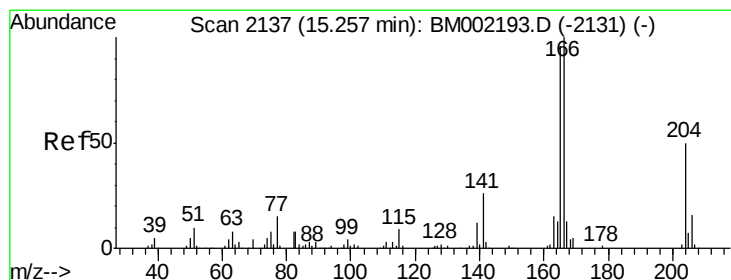
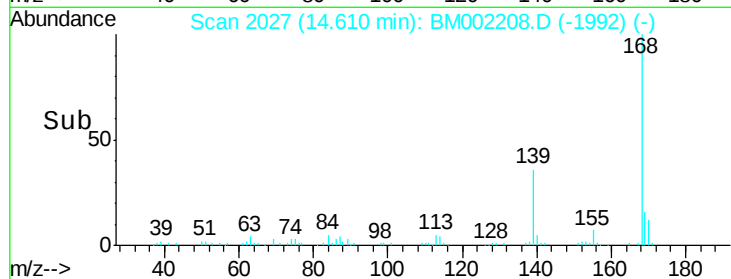
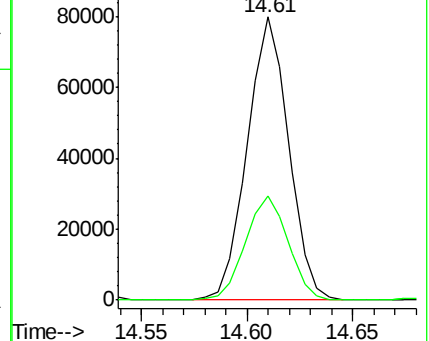
168 100

139 36.9 28.2 42.2



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#59

Fluorene

Concen: 9.59 ng/ul

RT: 15.26 min Scan# 2138

Delta R.T. 0.01 min

Lab File: BM002208.D

Acq: 03 Aug 2015 21:39

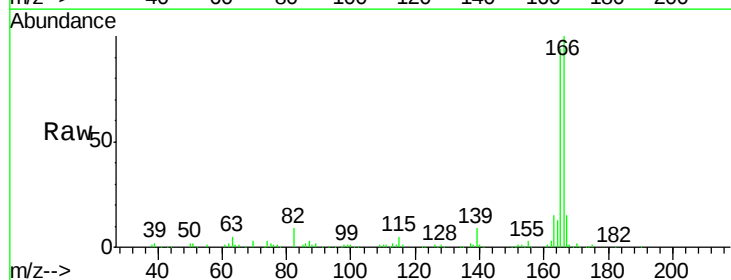
Tgt Ion:166 Resp: 198383

Ion Ratio Lower Upper

166 100

165 94.4 75.6 113.4

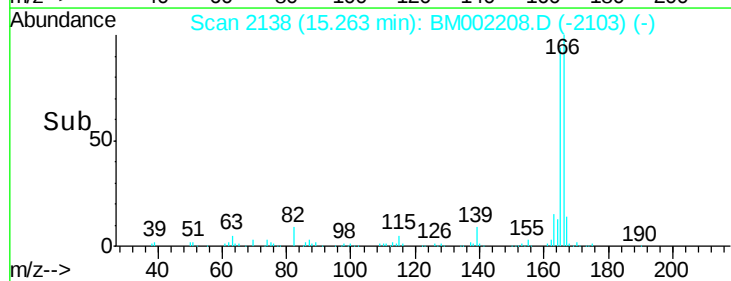
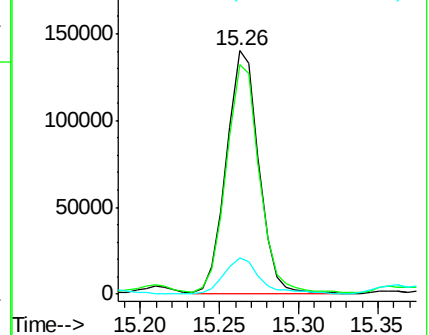
167 15.0 10.5 15.7

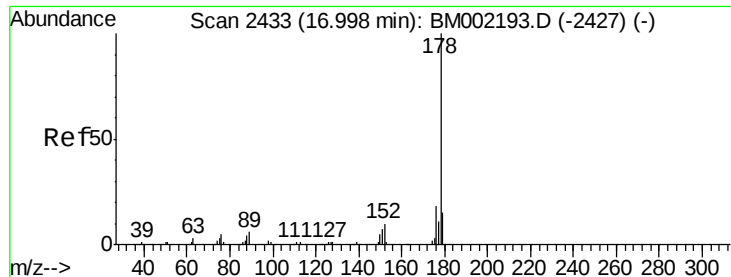


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#70

Phenanthrene

Concen: 123.19 ng/ul

RT: 17.02 min Scan# 2437

Delta R.T. 0.02 min

Lab File: BM002208.D

Acq: 03 Aug 2015 21:39

Instrument :

BNA_M

ClientSampleId :

C01R8

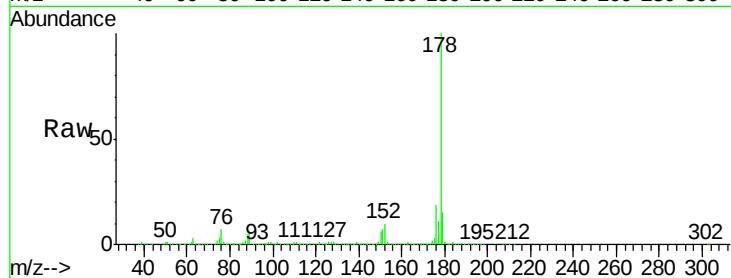
Tgt Ion:178 Resp: 3413820

Ion Ratio Lower Upper

178 100

179 15.4 12.5 18.7

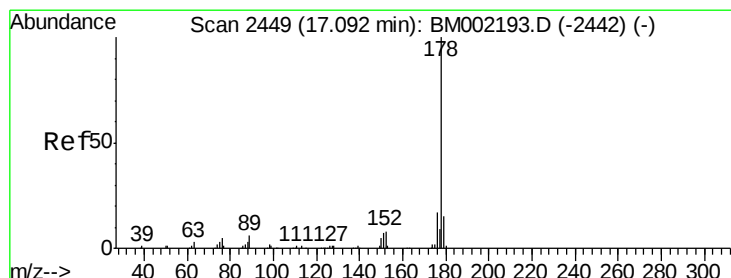
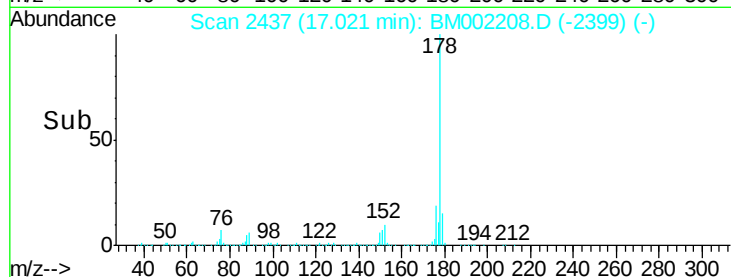
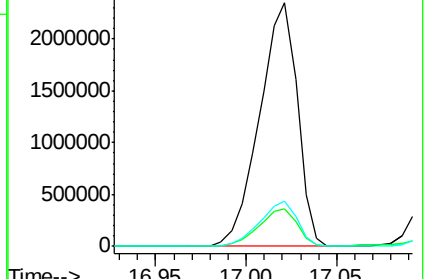
176 18.6 14.2 21.4



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



#72

Anthracene

Concen: 30.19 ng/ul

RT: 17.10 min Scan# 2451

Delta R.T. 0.01 min

Lab File: BM002208.D

Acq: 03 Aug 2015 21:39

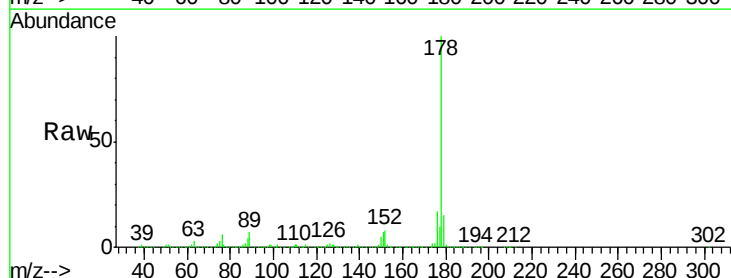
Tgt Ion:178 Resp: 855396

Ion Ratio Lower Upper

178 100

179 15.5 12.1 18.1

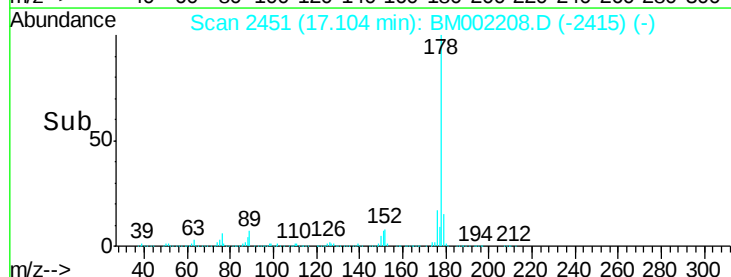
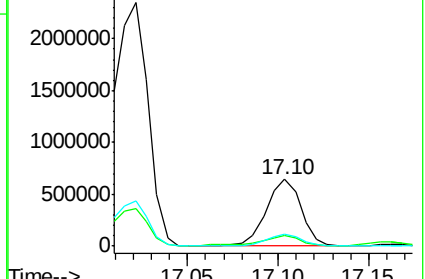
176 17.4 14.1 21.1

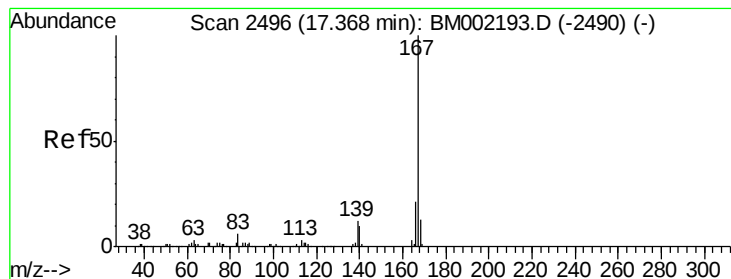


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#75

Carbazole

Concen: 8.70 ng/ul

RT: 17.38 min Scan# 2498

Delta R.T. 0.01 min

Lab File: BM002208.D

Acq: 03 Aug 2015 21:39

Instrument :

BNA_M

ClientSampleId :

C01R8

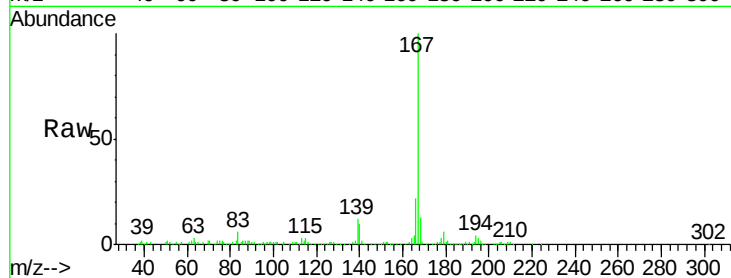
Tgt Ion:167 Resp: 210529

Ion Ratio Lower Upper

167 100

166 21.8 16.2 24.4

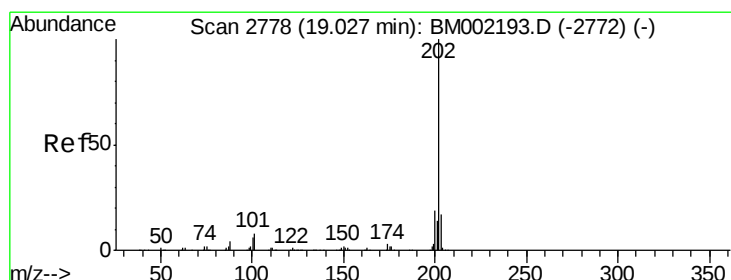
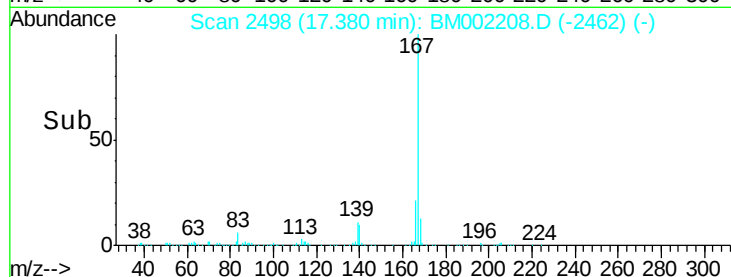
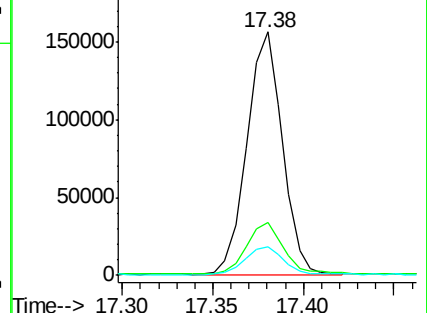
139 11.8 9.6 14.4



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



#77

Fluoranthene

Concen: 3.62 ng/ul

RT: 19.19 min Scan# 2806

Delta R.T. 0.16 min

Lab File: BM002208.D

Acq: 03 Aug 2015 21:39

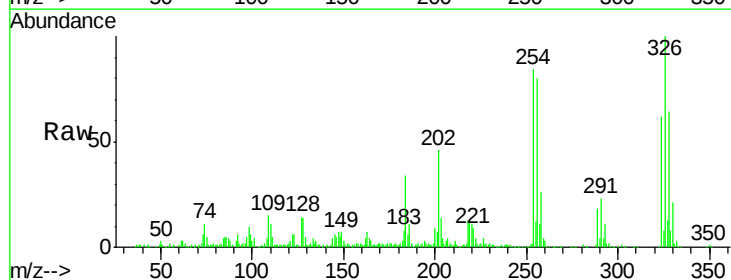
Tgt Ion:202 Resp: 115874

Ion Ratio Lower Upper

202 100

101 8.0 6.2 9.4

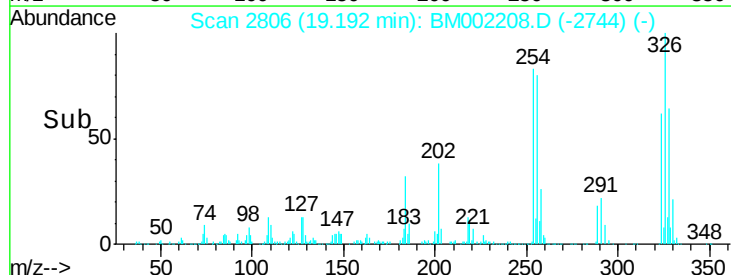
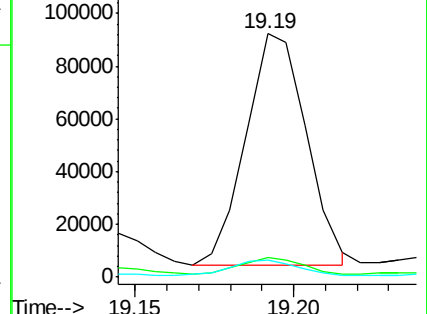
100 6.9 5.2 7.8

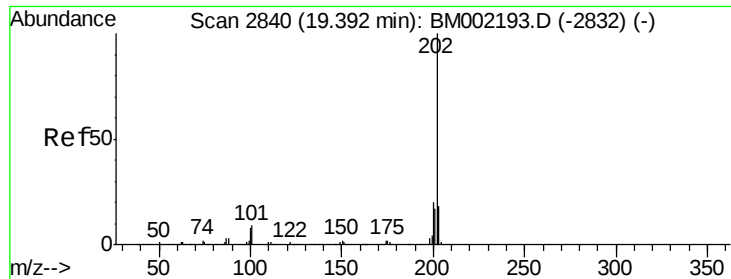


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

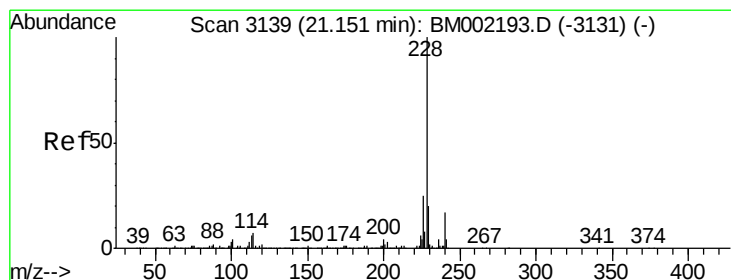
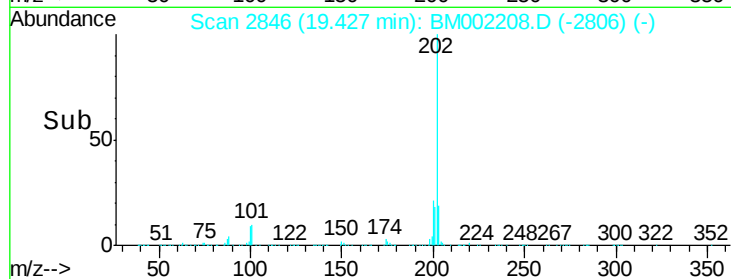
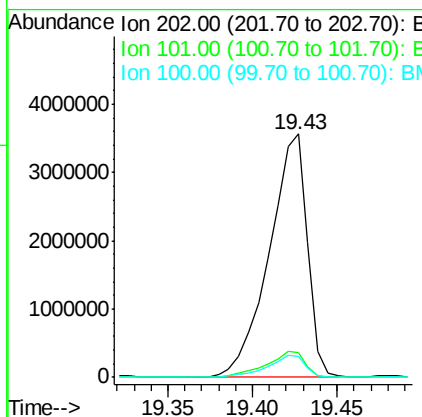
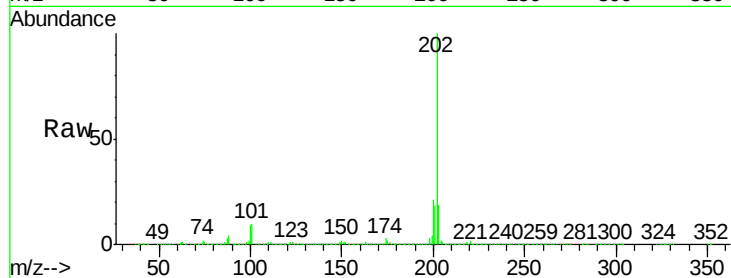




#80
 Pyrene
 Concen: 192.54 ng/ul
 RT: 19.43 min Scan# 2846
 Delta R.T. 0.04 min
 Lab File: BM002208.D
 Acq: 03 Aug 2015 21:39

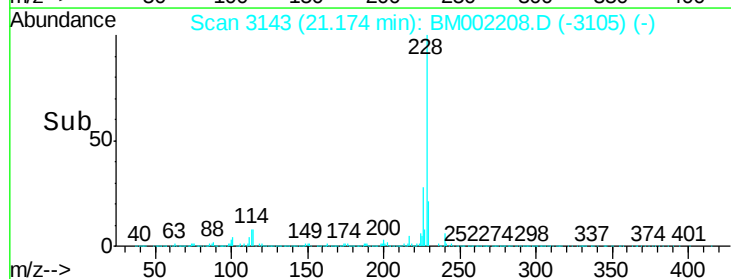
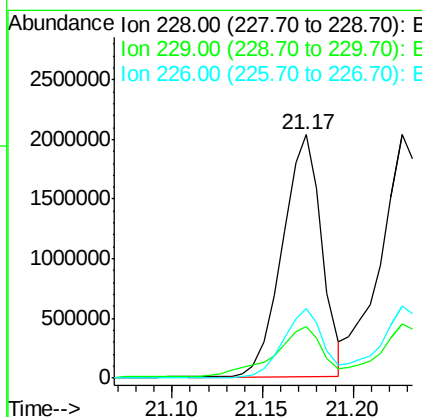
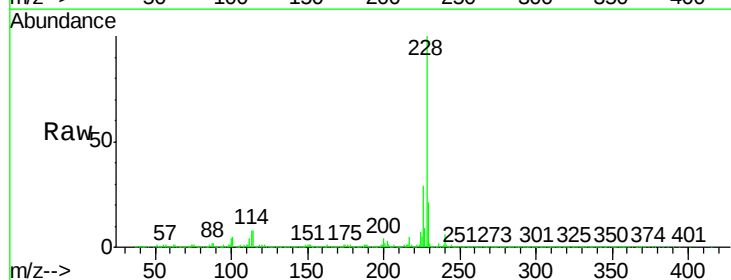
Instrument :
 BNA_M
 ClientSampleId :
 C01R8

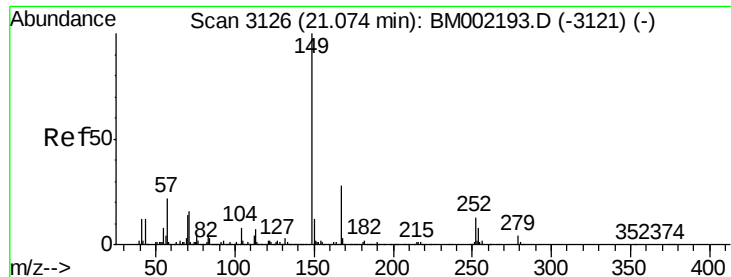
Tgt Ion:202 Resp: 5583717
 Ion Ratio Lower Upper
 202 100
 101 10.4 7.4 11.2
 100 8.7 6.3 9.5



#83
 Benzo(a)anthracene
 Concen: 104.36 ng/ul
 RT: 21.17 min Scan# 3143
 Delta R.T. 0.02 min
 Lab File: BM002208.D
 Acq: 03 Aug 2015 21:39

Tgt Ion:228 Resp: 3082985
 Ion Ratio Lower Upper
 228 100
 229 21.1 15.4 23.2
 226 28.5 20.5 30.7

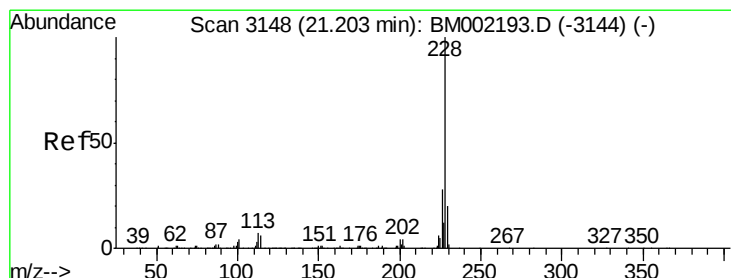
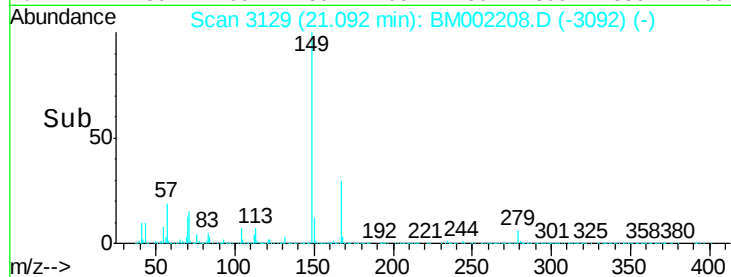
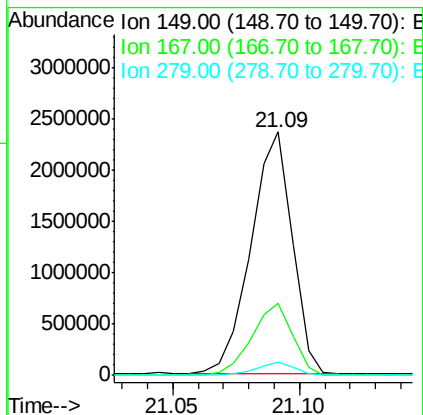
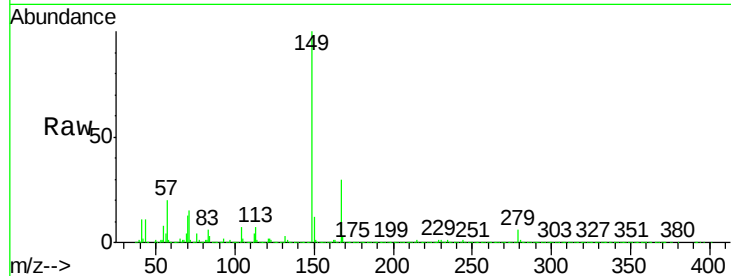




#84
 Bis(2-ethylhexyl)phthalate
 Concen: 157.51 ng/ul
 RT: 21.09 min Scan# 3129
 Delta R.T. 0.02 min
 Lab File: BM002208.D
 Acq: 03 Aug 2015 21:39

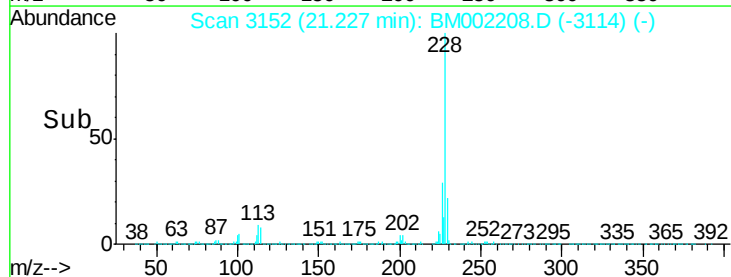
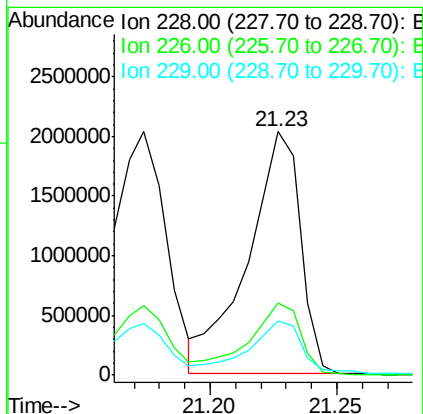
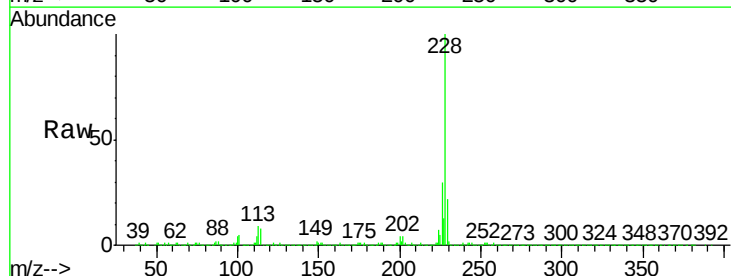
Instrument :
 BNA_M
 ClientSampleId :
 C01R8

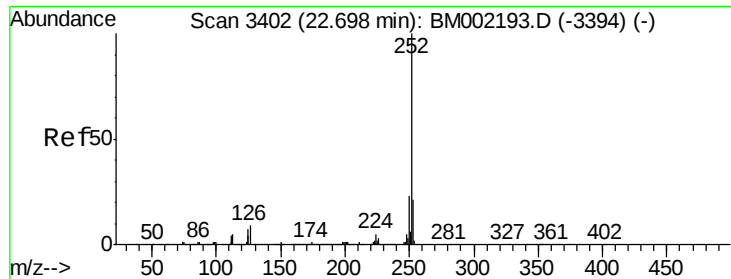
Tgt Ion:149 Resp: 2670918
 Ion Ratio Lower Upper
 149 100
 167 29.7 23.6 35.4
 279 5.5 4.2 6.4



#85
 Chrysene
 Concen: 106.38 ng/ul
 RT: 21.23 min Scan# 3152
 Delta R.T. 0.02 min
 Lab File: BM002208.D
 Acq: 03 Aug 2015 21:39

Tgt Ion:228 Resp: 2940433
 Ion Ratio Lower Upper
 228 100
 226 29.6 22.3 33.5
 229 22.4 15.5 23.3





#88

Benzo(b)fluoranthene

Concen: 121.36 ng/ul

RT: 22.74 min Scan# 3409

Delta R.T. 0.04 min

Lab File: BM002208.D

Acq: 03 Aug 2015 21:39

Instrument :

BNA_M

ClientSampleId :

C01R8

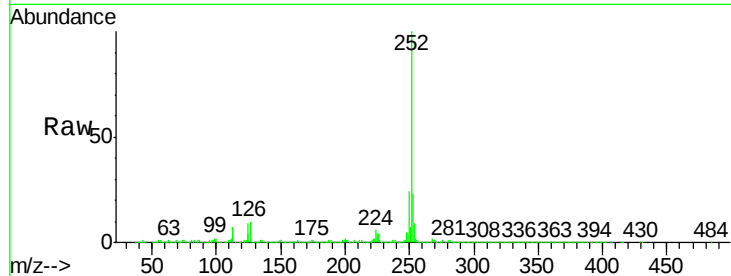
Tgt Ion:252 Resp: 3736603

Ion Ratio Lower Upper

252 100

253 22.9 16.9 25.3

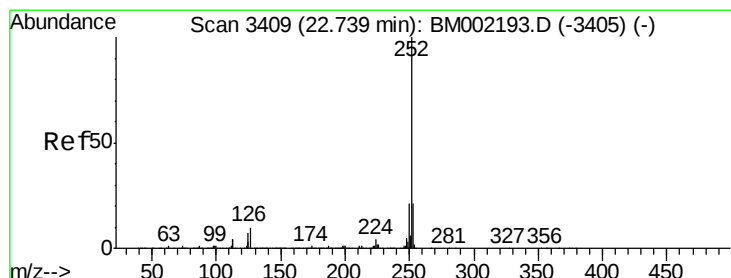
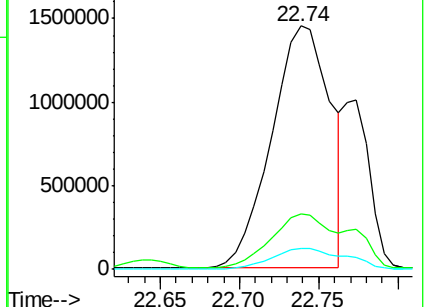
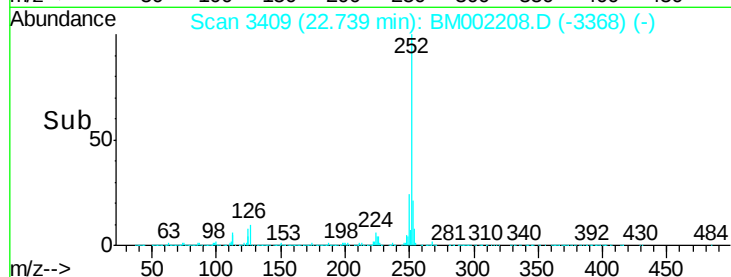
125 8.6 6.2 9.2



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(k)fluoranthene

Concen: 55.76 ng/ul

RT: 22.74 min Scan# 3409

Delta R.T. -0.00 min

Lab File: BM002208.D

Acq: 03 Aug 2015 21:39

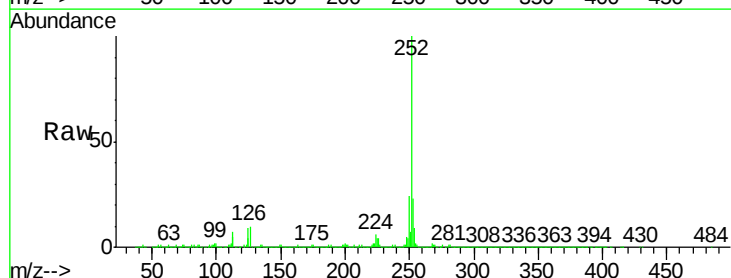
Tgt Ion:252 Resp: 1656604

Ion Ratio Lower Upper

252 100

253 22.9 17.4 26.0

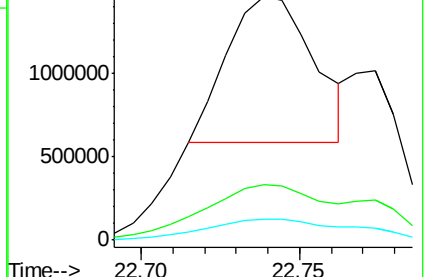
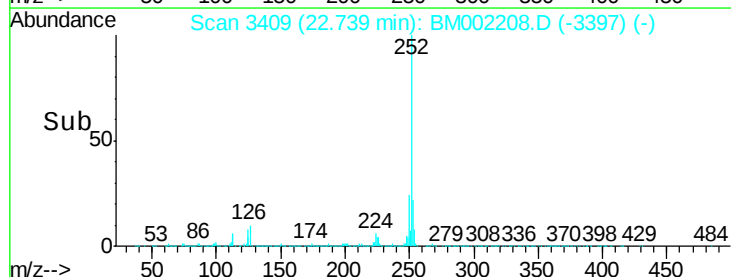
125 8.6 6.2 9.4

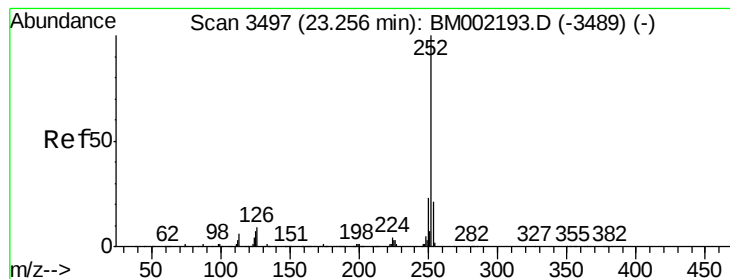


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Benzo(a)pyrene

Concen: 95.47 ng/ul

RT: 23.30 min Scan# 3505

Delta R.T. 0.05 min

Lab File: BM002208.D

Acq: 03 Aug 2015 21:39

Instrument :

BNA_M

ClientSampleId :

C01R8

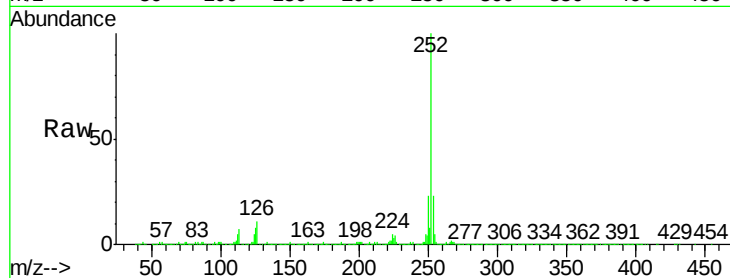
Tgt Ion:252 Resp: 2837326

Ion Ratio Lower Upper

252 100

253 23.0 17.2 25.8

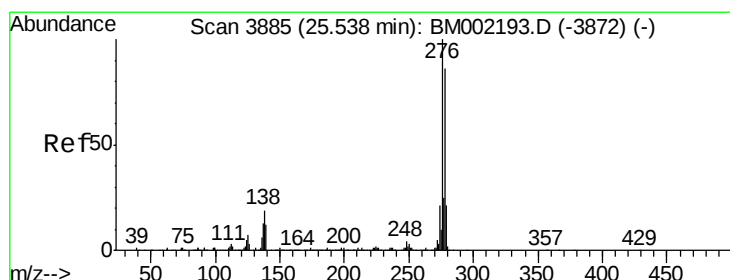
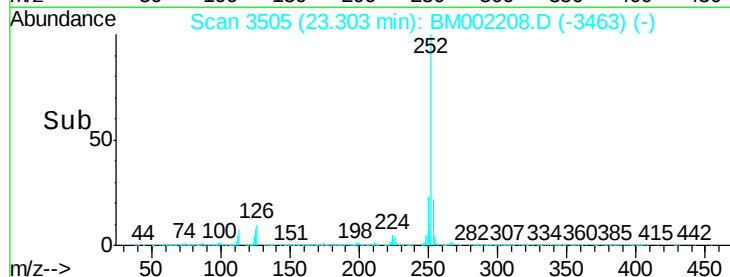
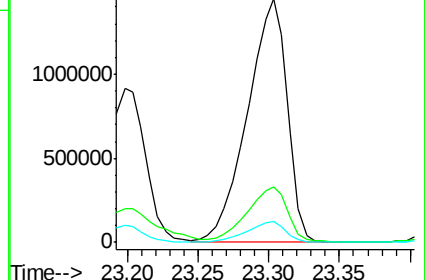
125 8.5 6.6 10.0



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



#92

Indeno(1,2,3-cd)pyrene

Concen: 54.07 ng/ul

RT: 25.62 min Scan# 3899

Delta R.T. 0.08 min

Lab File: BM002208.D

Acq: 03 Aug 2015 21:39

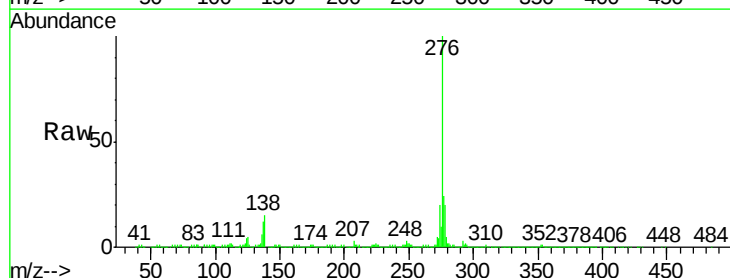
Tgt Ion:276 Resp: 1851814

Ion Ratio Lower Upper

276 100

138 15.4 16.2 24.2#

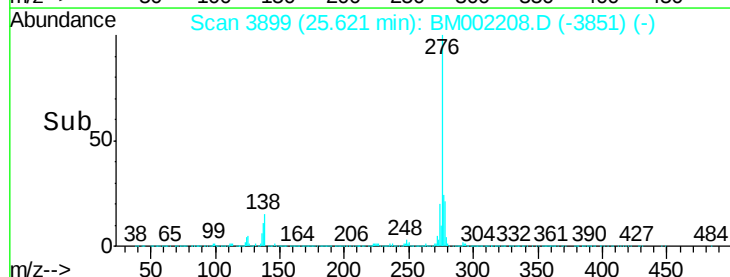
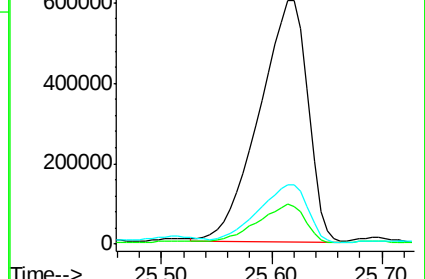
277 24.1 19.8 29.8

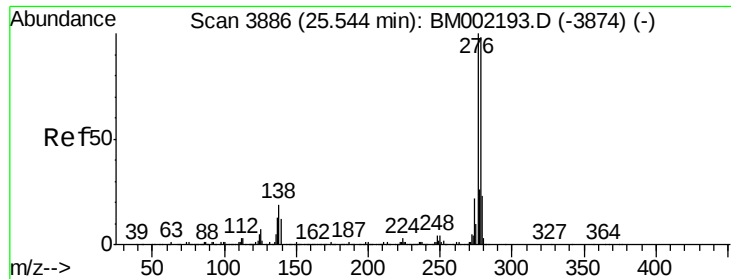


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#93

Dibenzo(a,h)anthracene

Concen: 18.16 ng/ul

RT: 25.60 min Scan# 3896

Delta R.T. 0.06 min

Lab File: BM002208.D

Acq: 03 Aug 2015 21:39

Instrument :

BNA_M

ClientSampleId :

C01R8

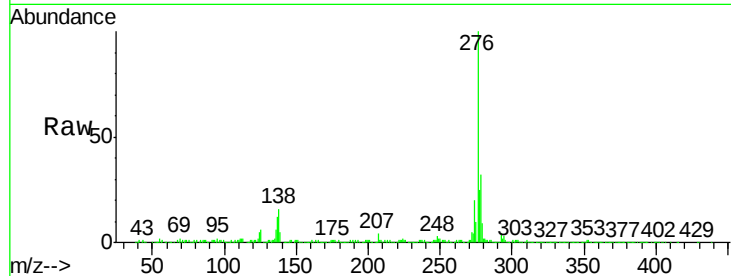
Tgt Ion:278 Resp: 532391

Ion Ratio Lower Upper

278 100

139 15.3 10.6 16.0

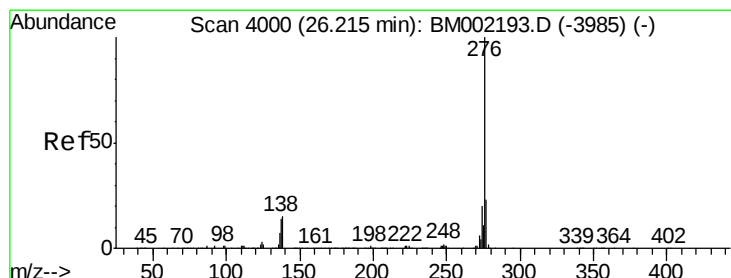
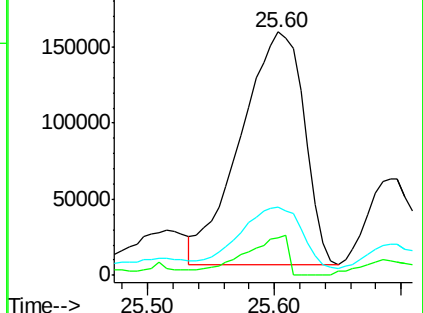
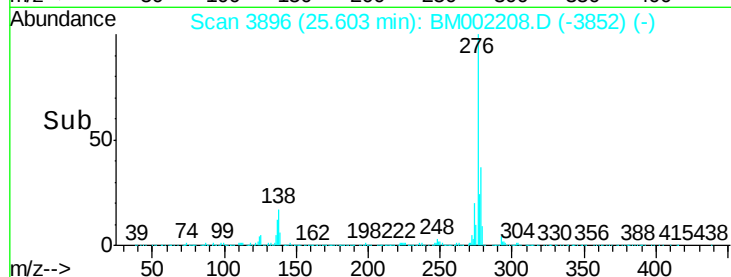
279 27.8 18.5 27.7#



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



#94

Benzo(g,h,i)perylene

Concen: 58.21 ng/ul

RT: 26.31 min Scan# 4016

Delta R.T. 0.09 min

Lab File: BM002208.D

Acq: 03 Aug 2015 21:39

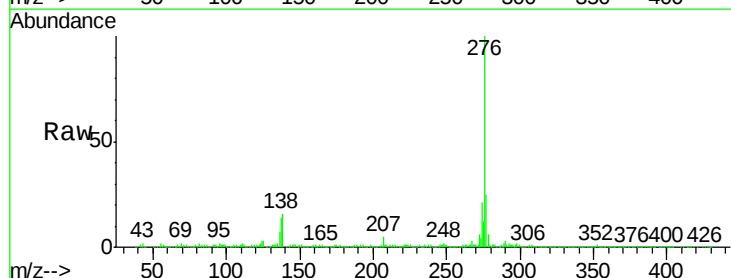
Tgt Ion:276 Resp: 1671061

Ion Ratio Lower Upper

276 100

138 16.5 13.8 20.6

277 25.0 18.2 27.2



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

