

Data Path : Z:\HPCHEM1\BNA M\DATA\BM081015\
 Data File : BM002316.D
 Acq On : 10 Aug 2015 17:14
 Operator : UM/IZ
 Sample : G3065-21DL 2X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Aug 11 01:35:46 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM080715.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 11 01:34:33 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.90	152	148646	20.00	ng/ul	0.00
18) Naphthalene-d8	11.77	136	675734	20.00	ng/ul	0.00
36) Acenaphthene-d10	15.49	164	322057	20.00	ng/ul	0.00
62) Phenanthrene-d10	18.19	188	572110	20.00	ng/ul	0.00
78) Chrysene-d12	22.29	240	382871	20.00	ng/ul	0.00
86) Perylene-d12	24.99	264	372700	20.00	ng/ul	0.01

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.92	96	2830	0.88	ng/uL	0.00
5) Phenol-d5	7.99	99	88158	6.56	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	8.19	67	50508	6.36	ng/ul	0.00
9) 2-Chlorophenol-d4	8.41	132	76280	6.87	ng/ul	0.00
13) 4-Methylphenol-d8	9.59	113	73361	6.37	ng/ul	0.00
19) Nitrobenzene-d5	10.09	128	37288	7.36	ng/ul	0.00
22) 2-Nitrophenol-d4	10.83	143	35269	7.87	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	11.37	165	69319	7.05	ng/ul	0.00
29) 4-Chloroaniline-d4	11.89	131	28681	2.20	ng/ul	0.00
44) Dimethylphthalate-d6	14.86	166	201726	7.61	ng/ul	0.00
47) Acenaphthylene-d8	15.19	160	268329	8.04	ng/ul	0.00
52) 4-Nitrophenol-d4	15.62	143	21866	4.57	ng/ul	0.00
58) Fluorene-d10	16.46	176	174013	7.50	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	16.55	200	5904	2.63	ng/ul	0.00
71) Anthracene-d10	18.29	188	229703	8.27	ng/ul	0.00
79) Pyrene-d10	20.51	212	182738	9.84	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.81	264	177267	8.96	ng/ul	0.00

Target Compounds

					Ovalue
28) Naphthalene	11.82	128	879484	24.72	ng/ul 99
34) 2-Methylnaphthalene	13.37	142	621421	24.45	ng/ul 98
35) 1-Methylnaphthalene	13.58	142	617951	24.67	ng/ul 98
41) 1,1'-Biphenyl	14.33	154	132486	4.86	ng/ul 98
45) Dimethylphthalate	14.90	163	131786	4.87	ng/ul 100
48) Acenaphthylene	15.22	152	507896	14.66	ng/ul 98
50) Acenaphthene	15.55	153	96879	4.16	ng/ul 91
54) Dibenzofuran	15.87	168	84180	2.71	ng/ul 99
55) 2,4-Dinitrotoluene	15.81	165	9185	1.28	ng/ul# 69
59) Fluorene	16.51	166	373300	14.23	ng/ul# 97
65) N-Nitrosodiphenylamine	16.69	169	19615	1.05	ng/ul# 67
70) Phenanthrene	18.24	178	2198325	66.76	ng/ul 100
72) Anthracene	18.33	178	314841	9.26	ng/ul 98
75) Carbazole	18.57	167	42321	1.38	ng/ul# 93
76) Di-n-butylphthalate	19.07	149	84984	2.06	ng/ul# 90
77) Fluoranthene	20.19	202	1107733	31.79	ng/ul 99
80) Pyrene	20.54	202	1211454	48.94	ng/ul 99
81) Butylbenzylphthalate	21.36	149	67260	5.50	ng/ul 94
83) Benzo(a)anthracene	22.27	228	573054	24.52	ng/ul 96
84) Bis(2-ethylhexyl)phthalate	22.12	149	188242	10.64	ng/ul 98
85) Chrysene	22.27	228	568199	25.65	ng/ul 95
88) Benzo(b)fluoranthene	24.15	252	606510	26.18	ng/ul# 92
91) Benzo(a)pyrene	24.86	252	442040	19.94	ng/ul# 93

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BNA_M
ClientSampleId :

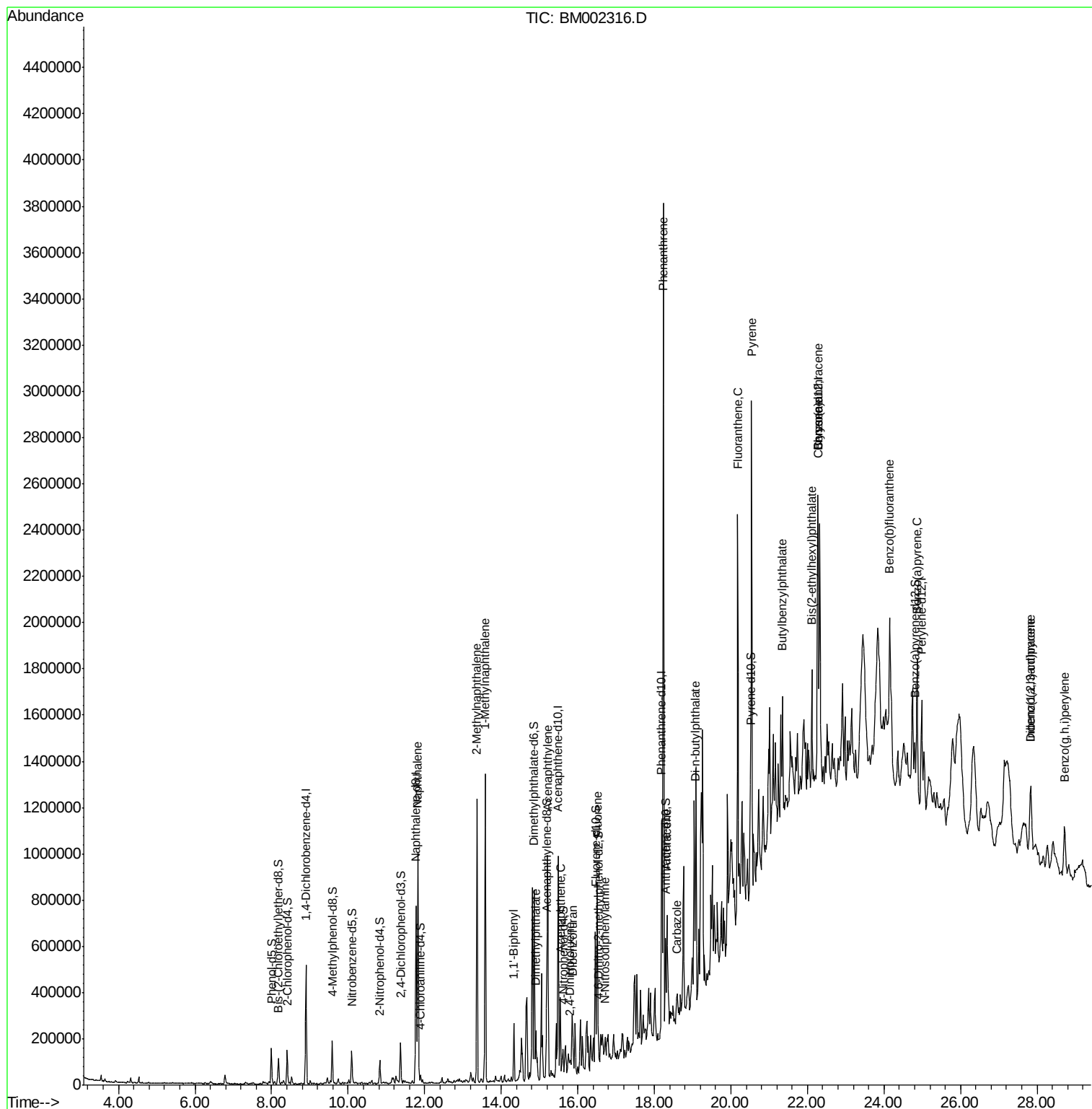
Quant Time: Aug 11 01:35:46 2015
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Quant Title : SVOA CALIBRATION
QLast Update : Tue Aug 11 01:34:33 2015
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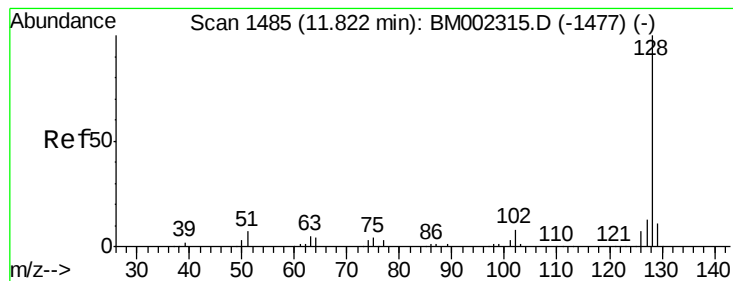
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) Indeno(1,2,3-cd)pyrene	27.83	276	317055	12.48	ng/ul	97
93) Dibenzo(a,h)anthracene	27.83	278	100691	4.68	ng/ul#	74
94) Benzo(q,h,i)perylene	28.72	276	310854	14.50	ng/ul	96

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

```
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#28

Naphthalene

Concen: 24.72 ng/ul

RT: 11.82 min Scan# 1485

Delta R.T. -0.00 min

Lab File: BM002316.D

Acq: 10 Aug 2015 17:14

Instrument :

BNA_M

ClientSampleId :

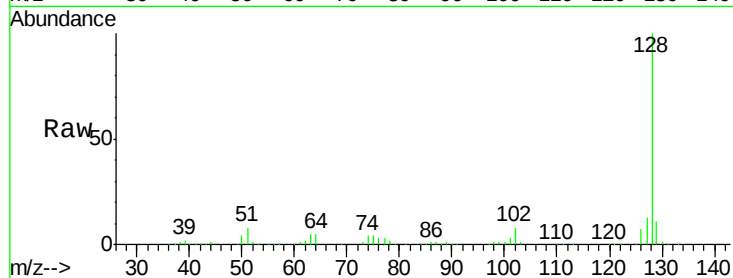
Tot Ion:128 Resp: 879484

Ion Ratio Lower Upper

128 100

129 11.3 8.6 12.8

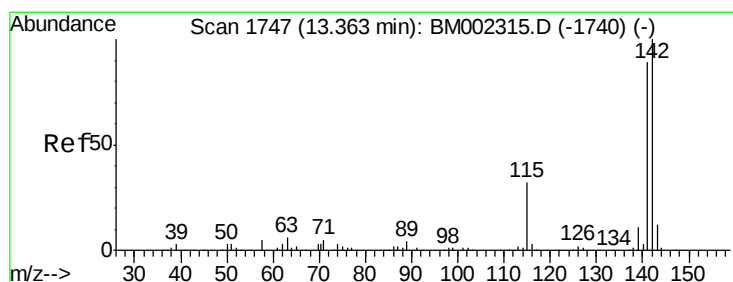
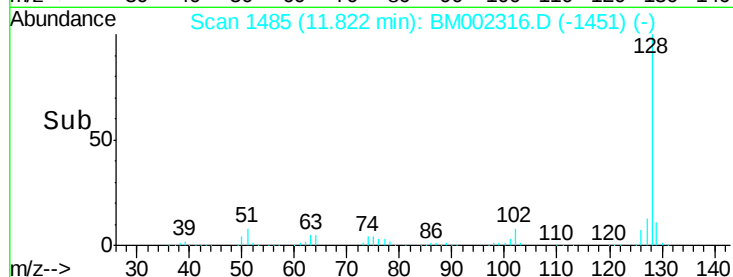
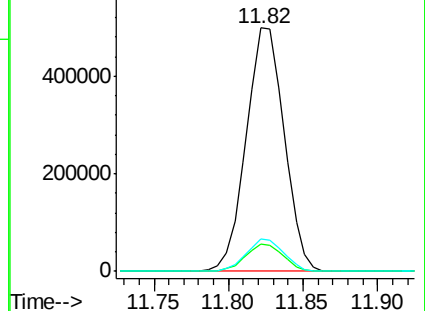
127 13.2 10.4 15.6



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: 24.45 ng/ul

RT: 13.37 min Scan# 1748

Delta R.T. 0.01 min

Lab File: BM002316.D

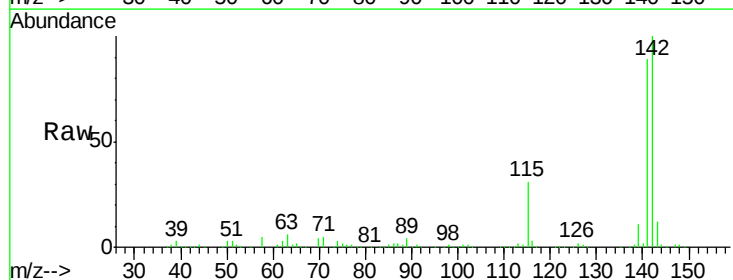
Acq: 10 Aug 2015 17:14

Tgt Ion:142 Resp: 621421

Ion Ratio Lower Upper

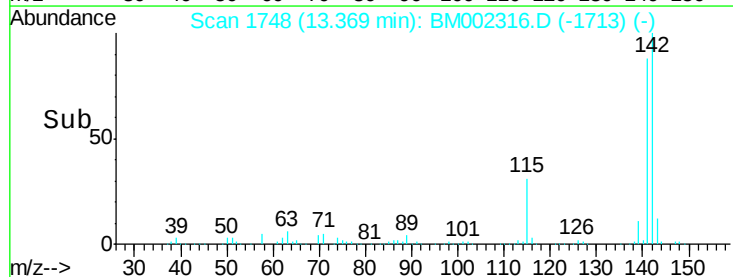
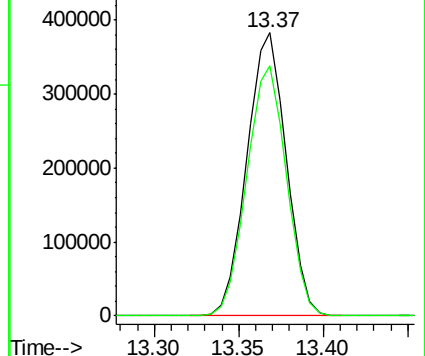
142 100

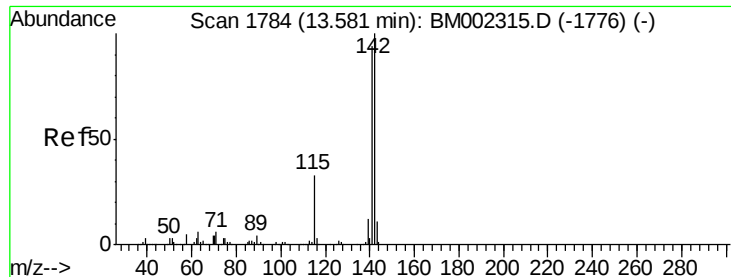
141 88.5 72.5 108.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

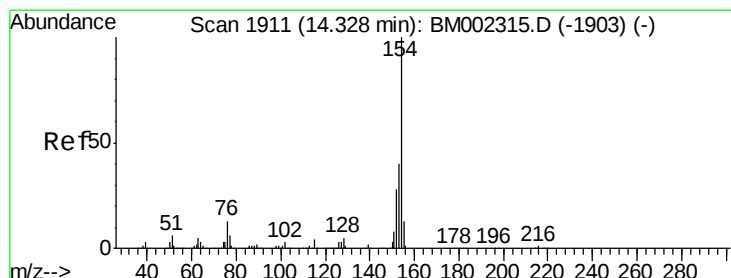
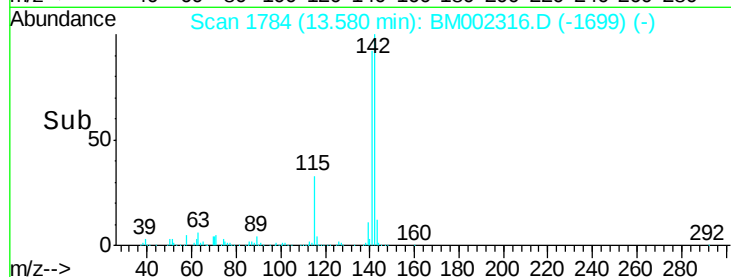
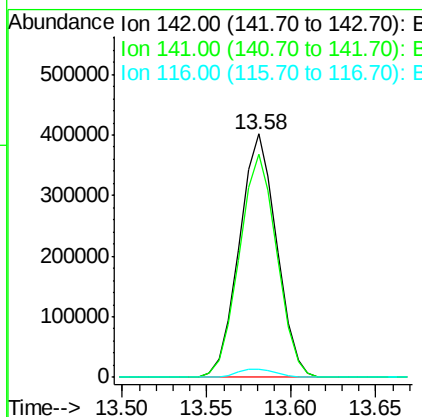
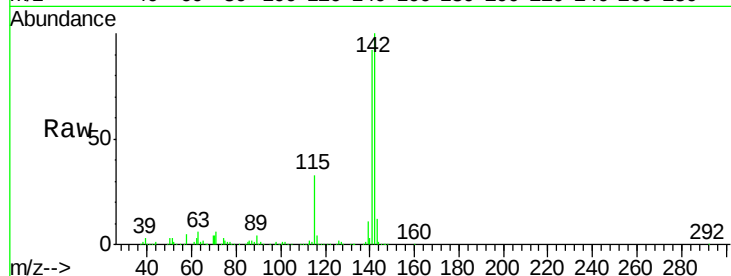




#35
 1-Methylnaphthalene
 Concen: 24.67 ng/ul
 RT: 13.58 min Scan# 1784
 Delta R.T. -0.00 min
 Lab File: BM002316.D
 Acq: 10 Aug 2015 17:14

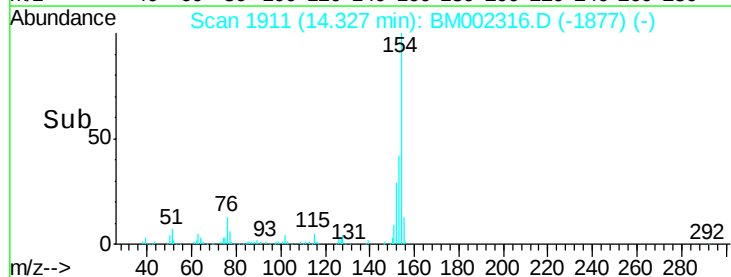
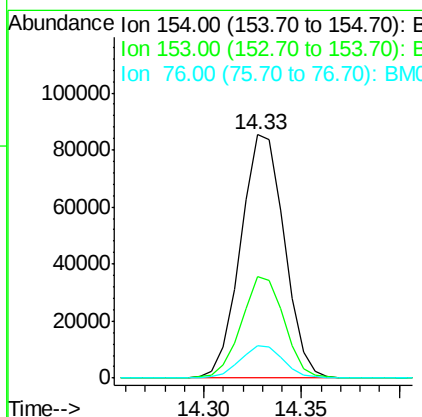
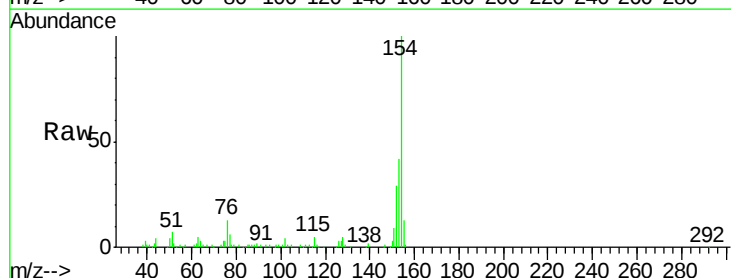
Instrument :
 BNA_M
 ClientSampleId :

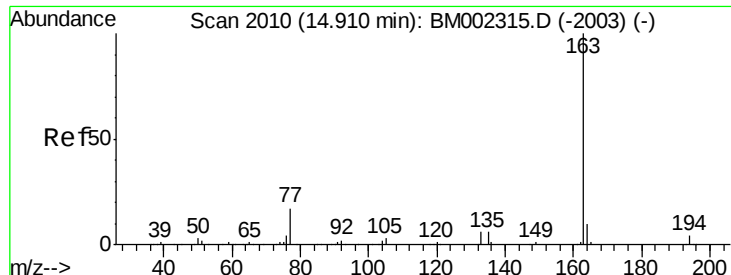
Tot Ion:142 Resp: 617951
 Ion Ratio Lower Upper
 142 100
 141 91.5 74.5 111.7
 116 3.6 3.0 4.4



#41
 1,1'-Biphenyl
 Concen: 4.86 ng/ul
 RT: 14.33 min Scan# 1911
 Delta R.T. -0.00 min
 Lab File: BM002316.D
 Acq: 10 Aug 2015 17:14

Tgt Ion:154 Resp: 132486
 Ion Ratio Lower Upper
 154 100
 153 41.6 32.1 48.1
 76 13.2 11.0 16.4

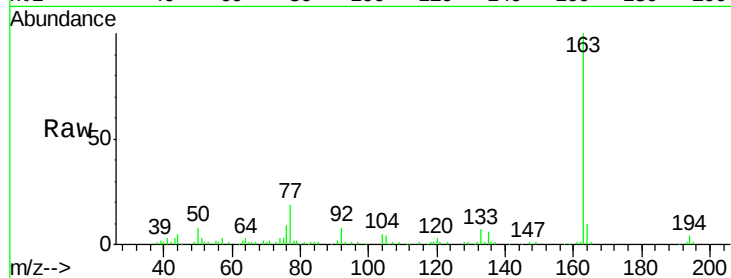




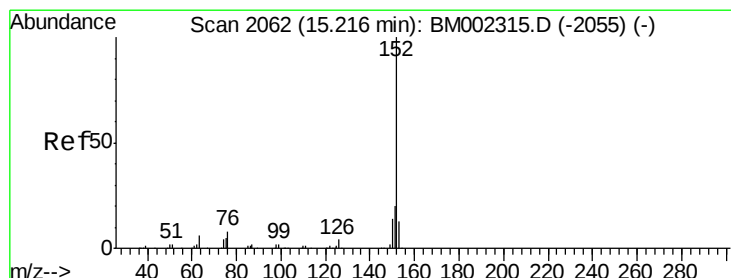
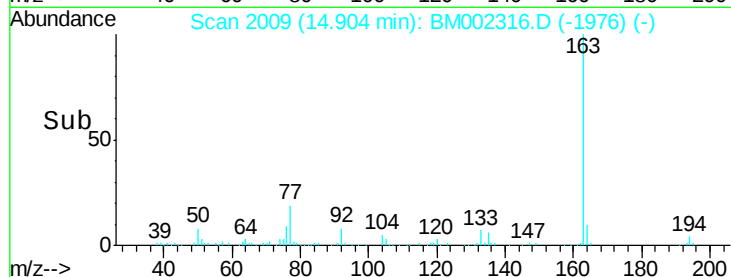
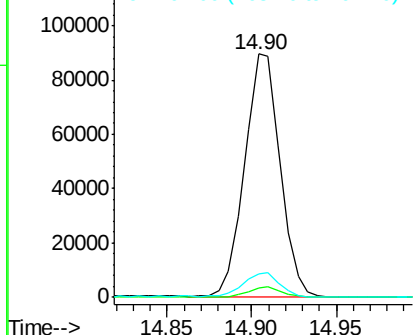
#45
Dimethylphthalate
Concen: 4.87 ng/ul
RT: 14.90 min Scan# 2009
Delta R.T. -0.01 min
Lab File: BM002316.D
Acq: 10 Aug 2015 17:14

Instrument :
BNA_M
ClientSampleId :

Tot Ion:163 Resp: 131786
Ion Ratio Lower Upper
163 100
194 4.0 3.2 4.8
164 9.7 7.9 11.9

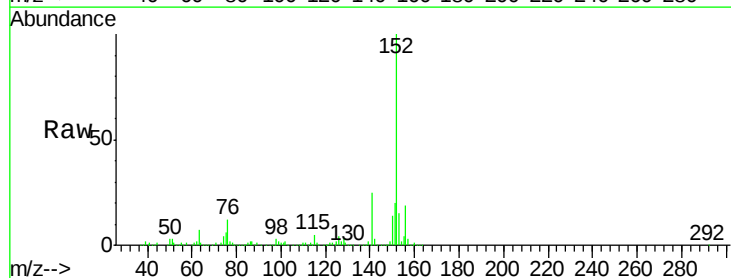


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

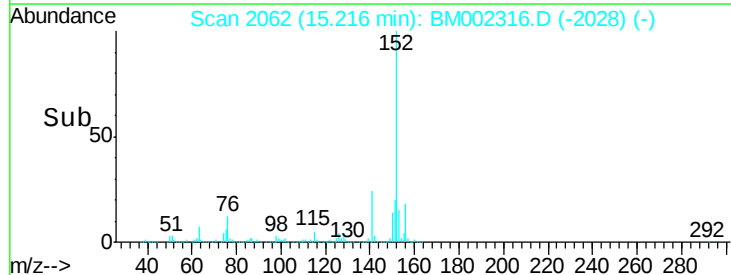
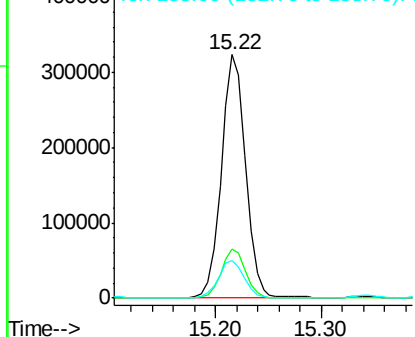


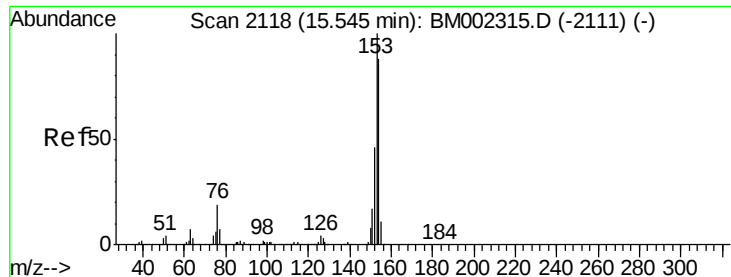
#48
Acenaphthylene
Concen: 14.66 ng/ul
RT: 15.22 min Scan# 2062
Delta R.T. -0.00 min
Lab File: BM002316.D
Acq: 10 Aug 2015 17:14

Tgt Ion:152 Resp: 507896
Ion Ratio Lower Upper
152 100
151 20.2 15.9 23.9
153 15.3 10.6 15.8



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#50

Acenaphthene

Concen: 4.16 ng/ul

RT: 15.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: BM002316.D

Acq: 10 Aug 2015 17:14

Instrument :

BNA_M

ClientSampleId :

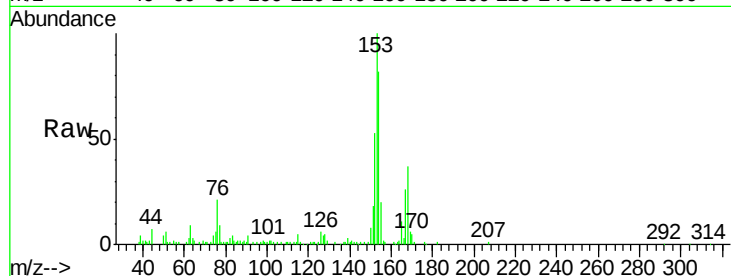
Tot Ion:153 Resp: 96879

Ion Ratio Lower Upper

153 100

152 52.7 36.6 55.0

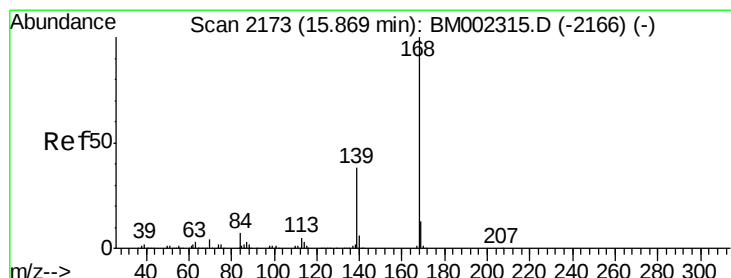
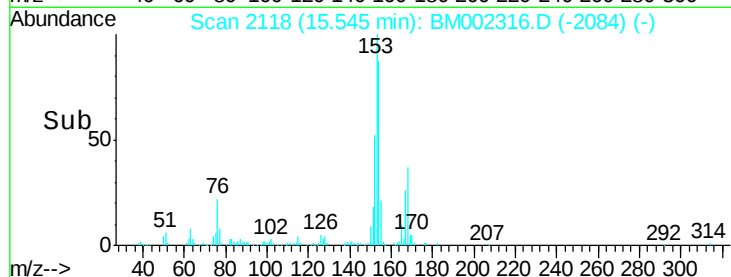
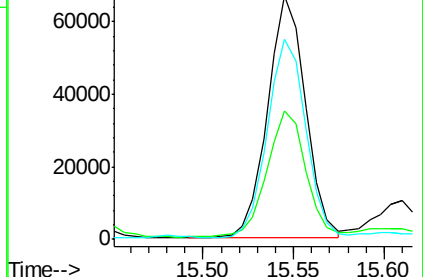
154 82.3 71.5 107.3



Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#54

Dibenzofuran

Concen: 2.71 ng/ul

RT: 15.87 min Scan# 2173

Delta R.T. -0.00 min

Lab File: BM002316.D

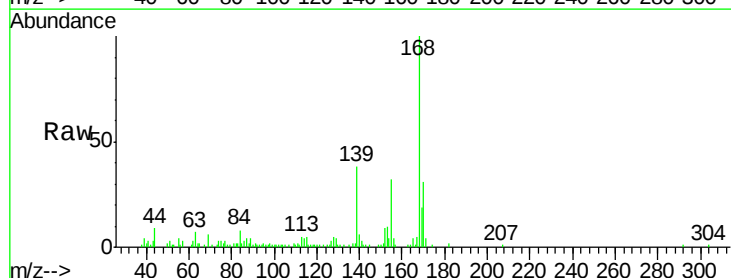
Acq: 10 Aug 2015 17:14

Tgt Ion:168 Resp: 84180

Ion Ratio Lower Upper

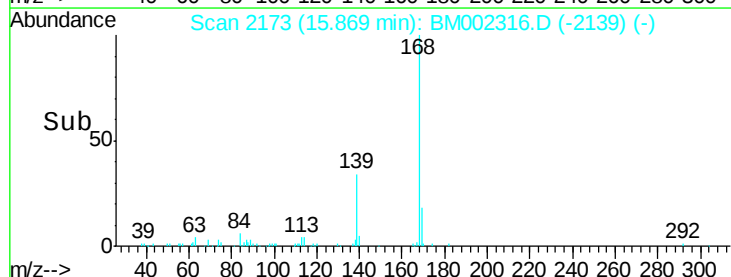
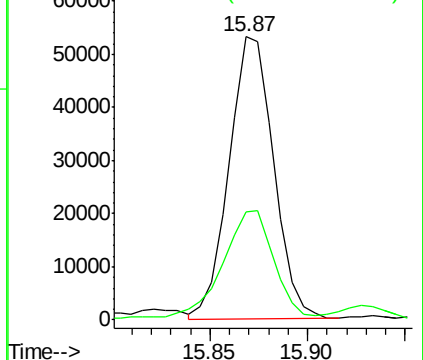
168 100

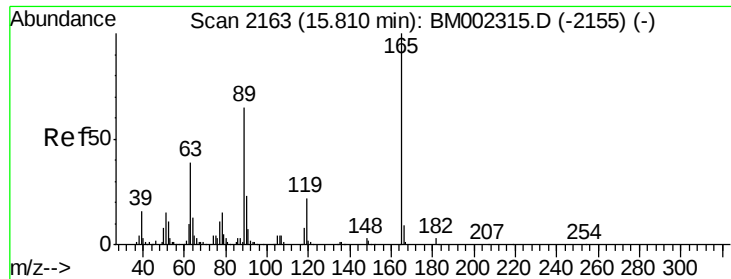
139 38.3 31.3 46.9



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

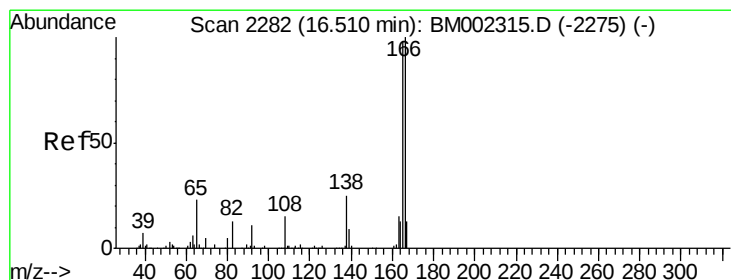
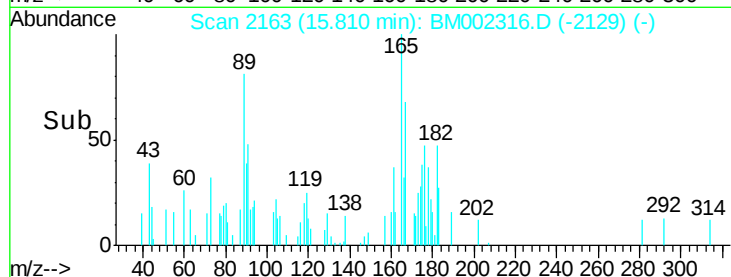
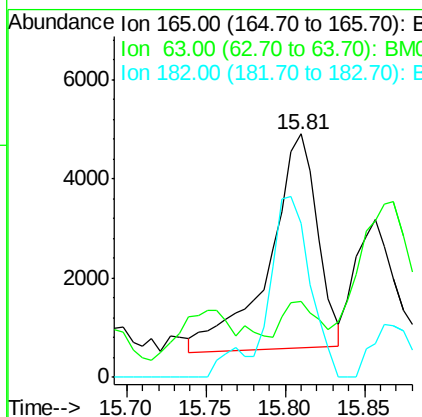
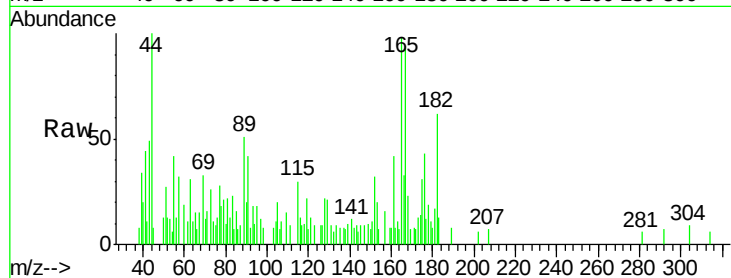




#55
 2,4-Dinitrotoluene
 Concen: 1.28 ng/ul
 RT: 15.81 min Scan# 2163
 Delta R.T. -0.00 min
 Lab File: BM002316.D
 Acq: 10 Aug 2015 17:14

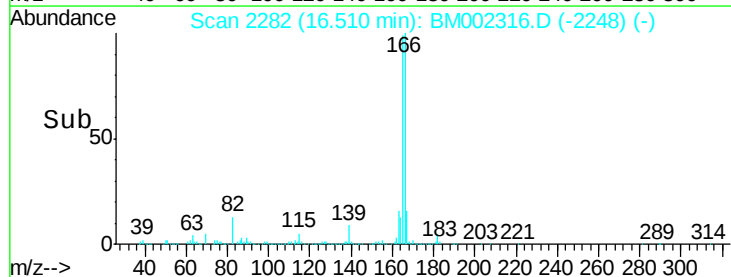
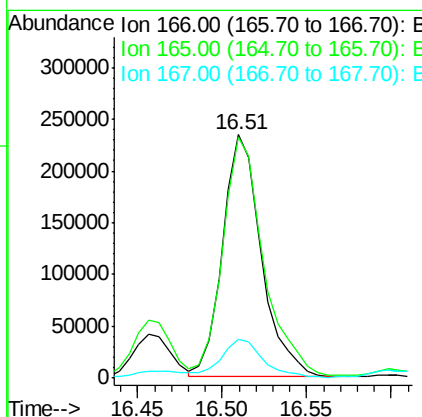
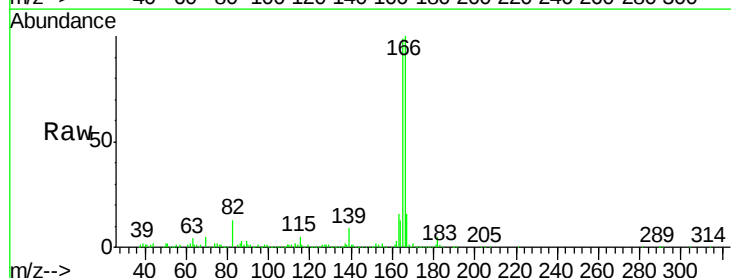
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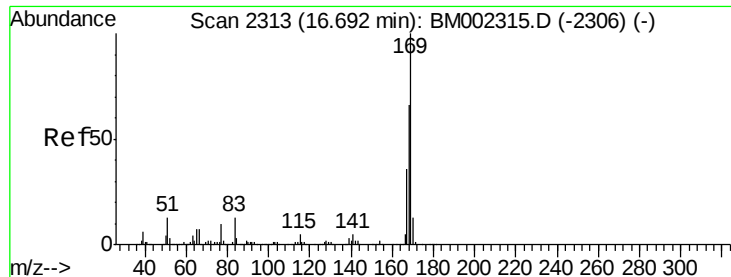
Tot Ion:165 Resp: 9185
 Ion Ratio Lower Upper
 165 100
 63 31.3 35.9 53.9#
 182 63.5 2.5 3.7#



#59
 Fluorene
 Concen: 14.23 ng/ul
 RT: 16.51 min Scan# 2282
 Delta R.T. -0.00 min
 Lab File: BM002316.D
 Acq: 10 Aug 2015 17:14

Tgt Ion:166 Resp: 373300
 Ion Ratio Lower Upper
 166 100
 165 99.1 77.5 116.3
 167 16.2 10.4 15.6#





#65

N-Nitrosodiphenylamine

Concen: 1.05 ng/ul

RT: 16.69 min Scan# 2313

Delta R.T. -0.00 min

Lab File: BM002316.D

Acq: 10 Aug 2015 17:14

Instrument :

BNA_M

ClientSampled :

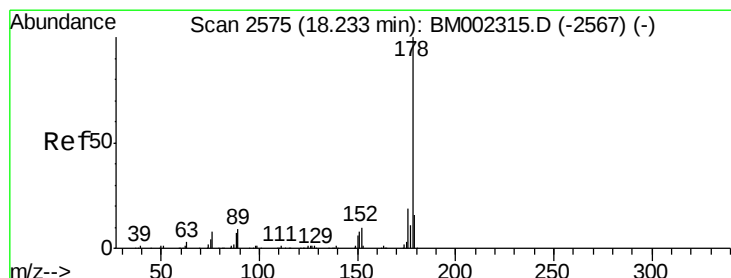
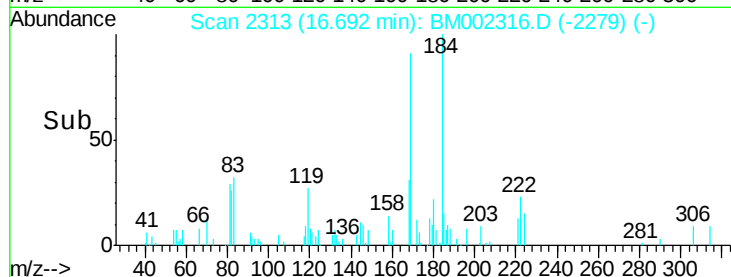
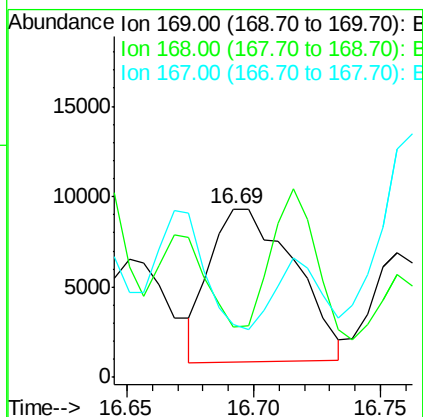
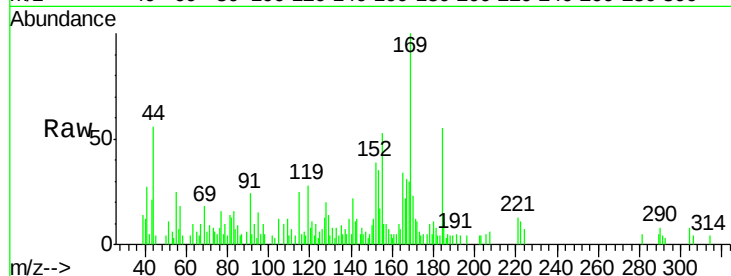
Tot Ion:169 Resp: 19615

Ion Ratio Lower Upper

169 100

168 29.6 53.4 80.2#

167 31.2 28.8 43.2



#70

Phenanthrene

Concen: 66.76 ng/ul

RT: 18.24 min Scan# 2576

Delta R.T. 0.01 min

Lab File: BM002316.D

Acq: 10 Aug 2015 17:14

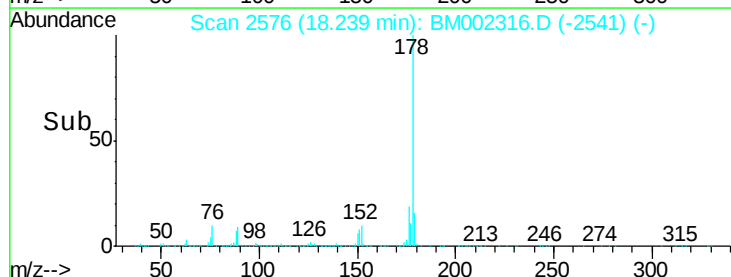
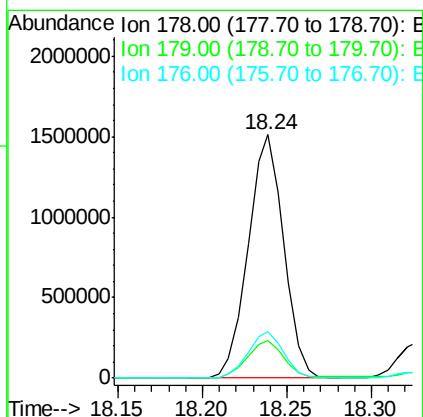
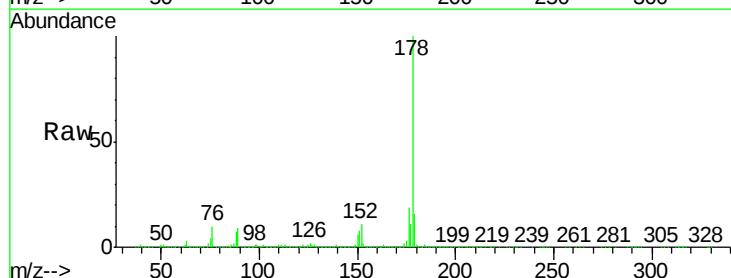
Tgt Ion:178 Resp: 2198325

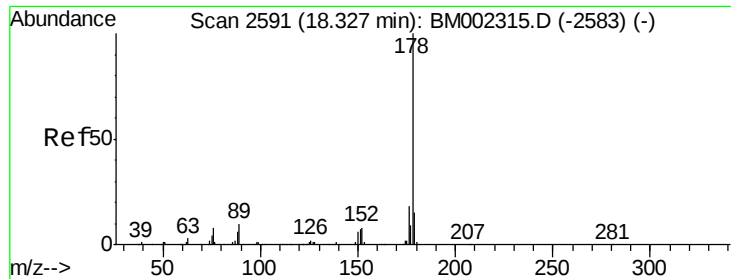
Ion Ratio Lower Upper

178 100

179 15.7 12.3 18.5

176 19.2 15.3 22.9





#72

Anthracene

Concen: 9.26 ng/ul

RT: 18.33 min Scan# 2591

Delta R.T. -0.00 min

Lab File: BM002316.D

Acq: 10 Aug 2015 17:14

Instrument :

BNA_M

ClientSampleId :

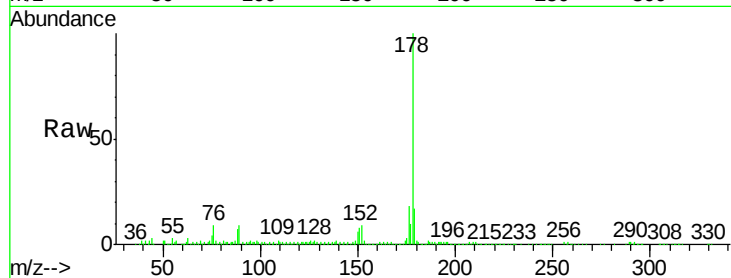
Tot Ion:178 Resp: 314841

Ion Ratio Lower Upper

178 100

179 16.6 12.3 18.5

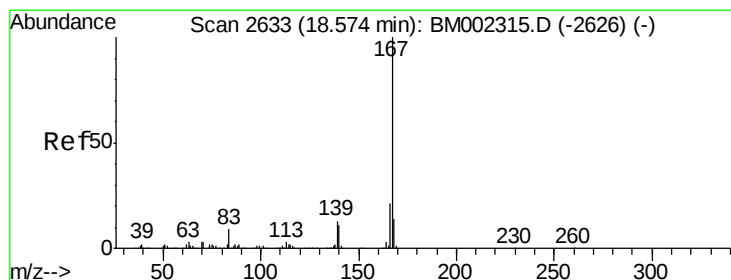
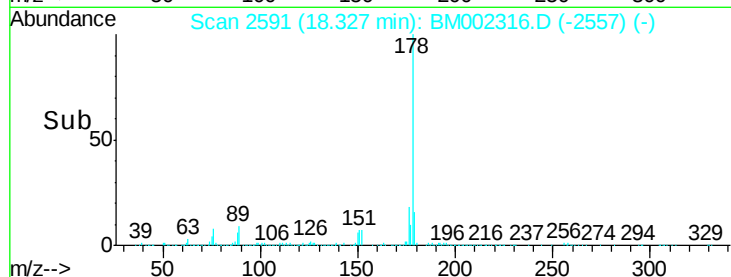
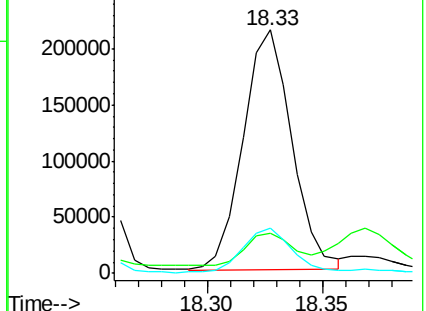
176 18.4 14.5 21.7



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: 1.38 ng/ul

RT: 18.57 min Scan# 2633

Delta R.T. -0.00 min

Lab File: BM002316.D

Acq: 10 Aug 2015 17:14

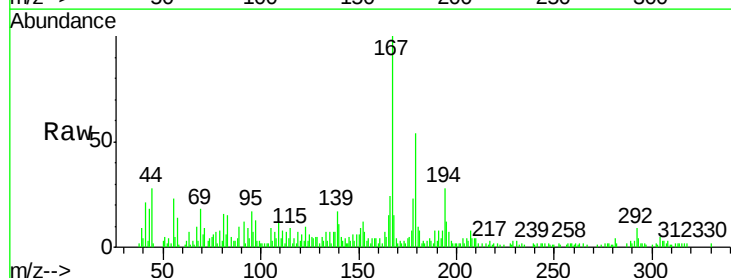
Tgt Ion:167 Resp: 42321

Ion Ratio Lower Upper

167 100

166 24.4 17.0 25.6

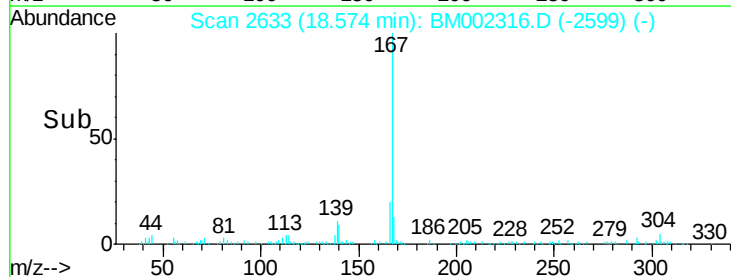
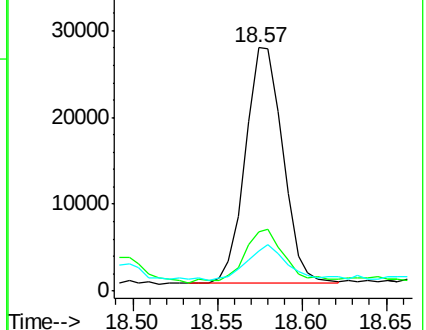
139 16.6 10.8 16.2#

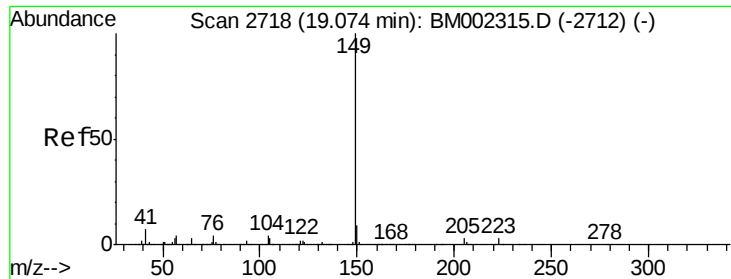


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

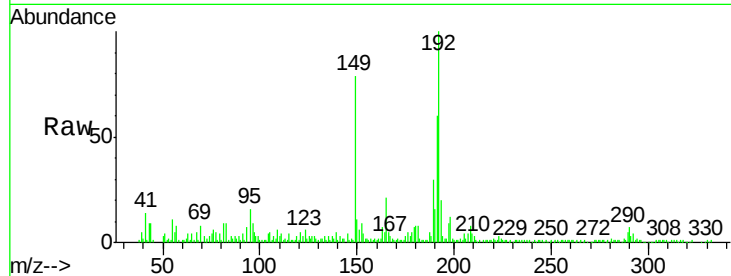




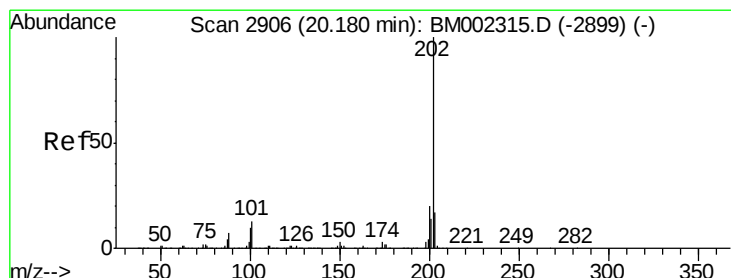
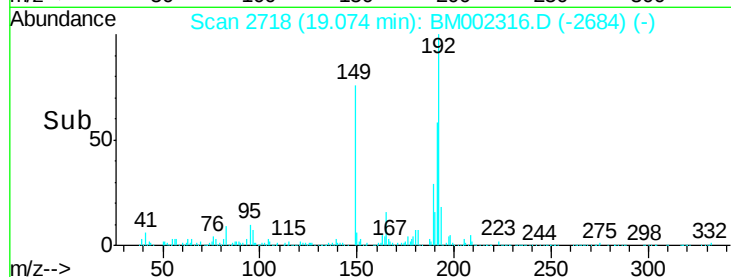
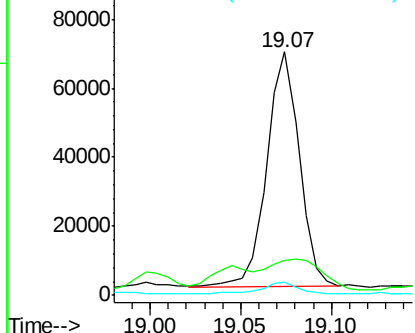
#76
Di-n-butylphthalate
Concen: 2.06 ng/ul
RT: 19.07 min Scan# 2718
Delta R.T. -0.00 min
Lab File: BM002316.D
Acq: 10 Aug 2015 17:14

Instrument :
BNA_M
ClientSampleId :

Tot Ion:149 Resp: 84984
Ion Ratio Lower Upper
149 100
150 14.5 7.3 10.9#
104 5.3 3.8 5.6

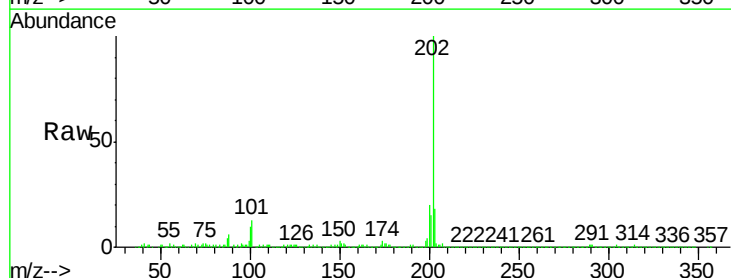


Abundance Ion 149.00 (148.70 to 149.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 104.00 (103.70 to 104.70): E

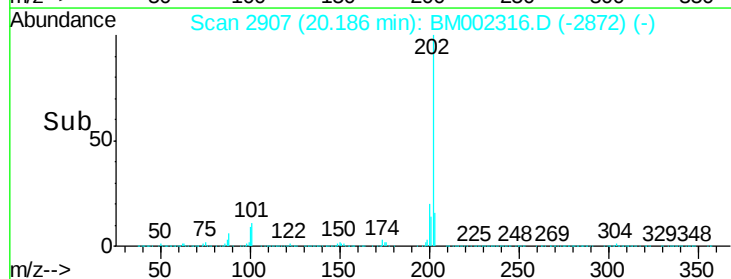
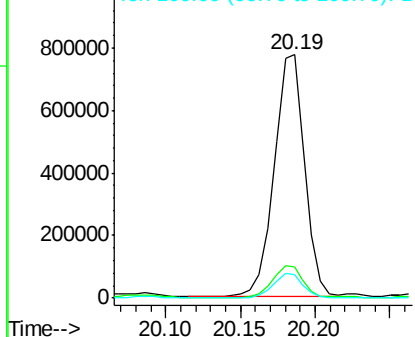


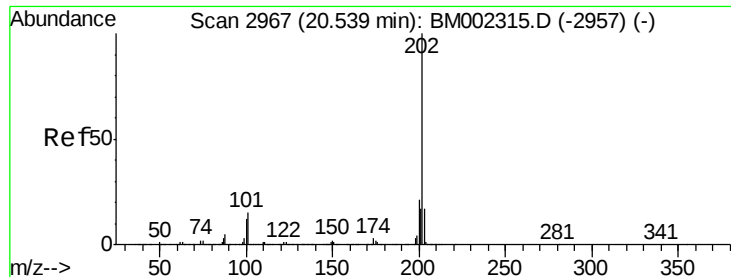
#77
Fluoranthene
Concen: 31.79 ng/ul
RT: 20.19 min Scan# 2907
Delta R.T. 0.01 min
Lab File: BM002316.D
Acq: 10 Aug 2015 17:14

Tgt Ion:202 Resp: 1107733
Ion Ratio Lower Upper
202 100
101 12.8 10.6 15.8
100 9.7 8.2 12.4



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

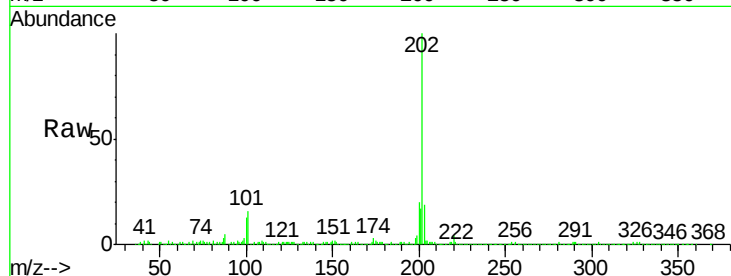




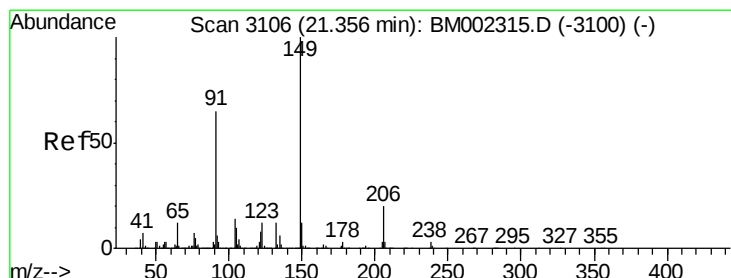
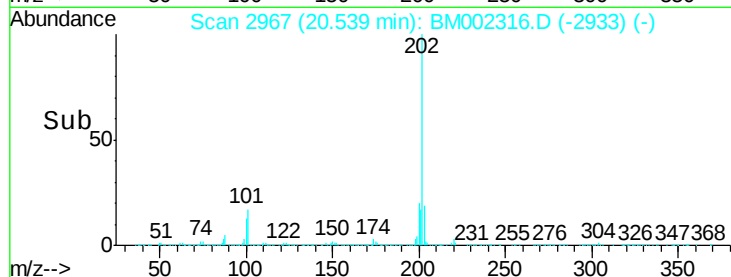
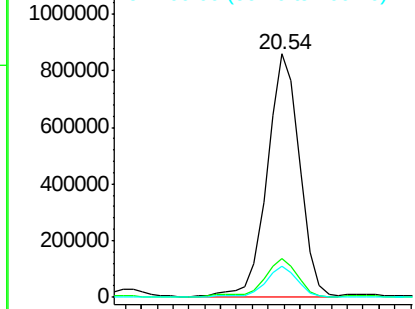
#80
Pvrene
Concen: 48.94 ng/ul
RT: 20.54 min Scan# 2967
Delta R.T. -0.00 min
Lab File: BM002316.D
Acq: 10 Aug 2015 17:14

Instrument :
BNA_M
ClientSampleId :

Tot Ion:202 Resp: 1211454
Ion Ratio Lower Upper
202 100
101 16.2 13.0 19.6
100 12.8 11.0 16.4

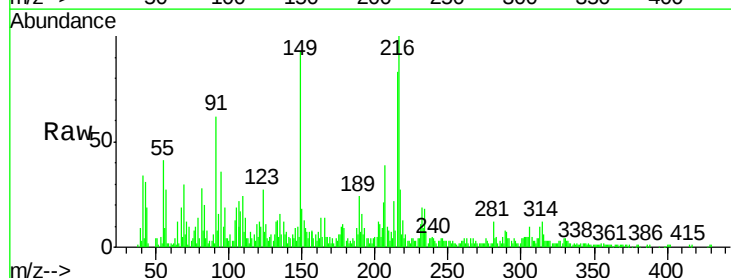


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 100.00 (99.70 to 100.70): B

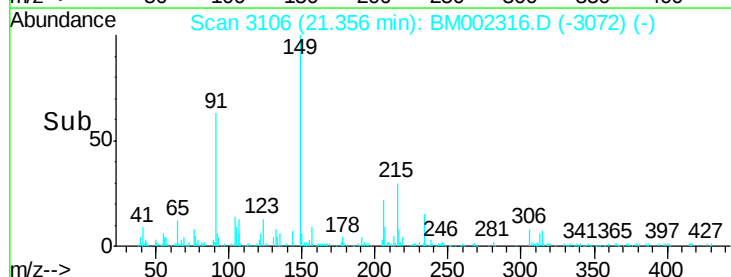
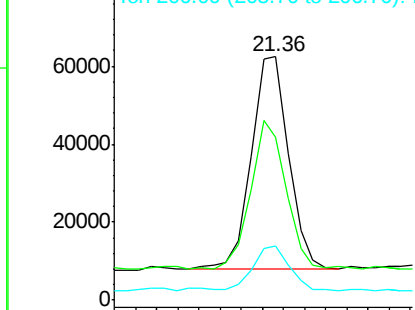


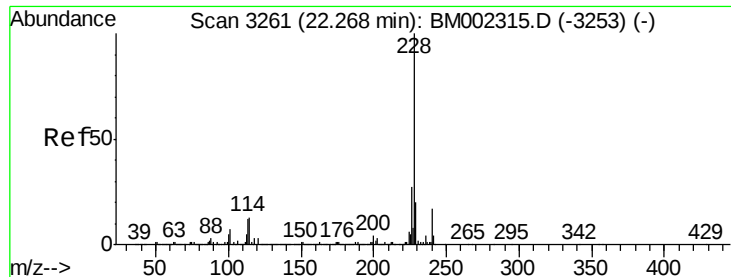
#81
Butylbenzylphthalate
Concen: 5.50 ng/ul
RT: 21.36 min Scan# 3106
Delta R.T. -0.00 min
Lab File: BM002316.D
Acq: 10 Aug 2015 17:14

Tgt Ion:149 Resp: 67260
Ion Ratio Lower Upper
149 100
91 67.1 57.5 86.3
206 22.4 15.2 22.8



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 91.00 (90.70 to 91.70): BM
Ion 206.00 (205.70 to 206.70): E

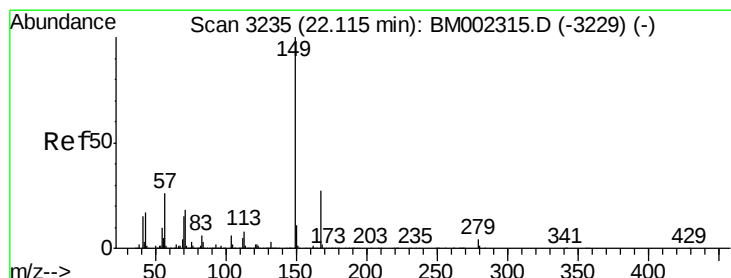
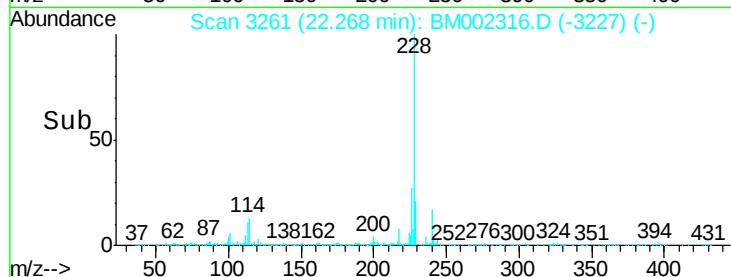
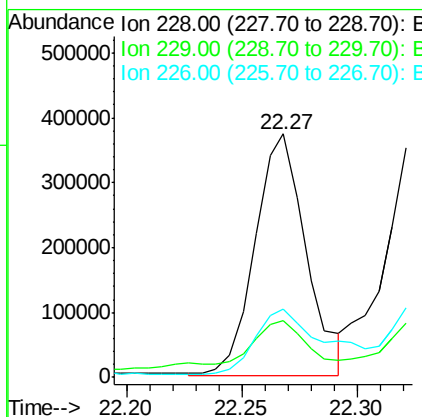
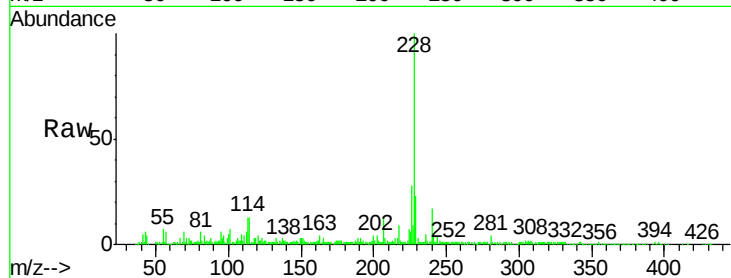




#83
Benzo(a)anthracene
Concen: 24.52 ng/ul
RT: 22.27 min Scan# 3261
Delta R.T. -0.00 min
Lab File: BM002316.D
Acq: 10 Aug 2015 17:14

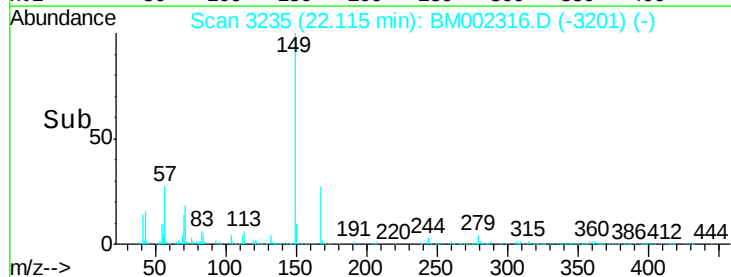
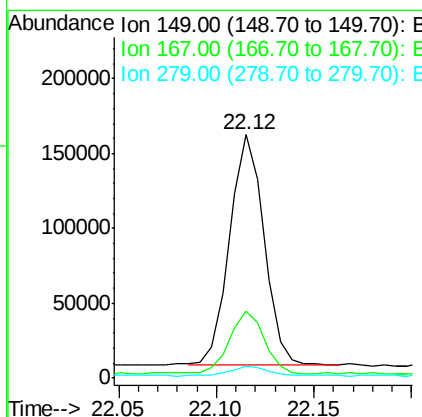
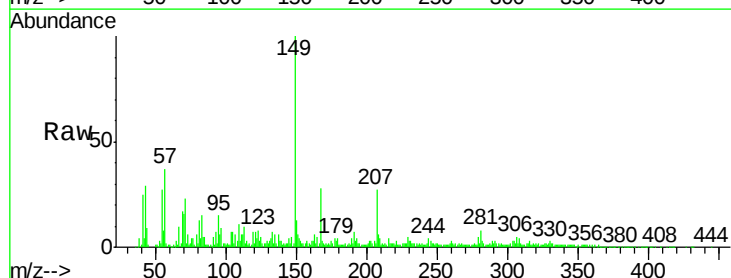
Instrument :
BNA_M
ClientSampleId :

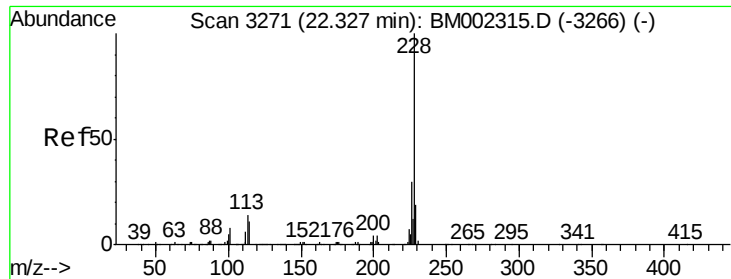
Tot Ion:228 Resp: 573054
Ion Ratio Lower Upper
228 100
229 23.1 15.7 23.5
226 27.8 21.4 32.0



#84
Bis(2-ethylhexyl)phthalate
Concen: 10.64 ng/ul
RT: 22.12 min Scan# 3235
Delta R.T. -0.00 min
Lab File: BM002316.D
Acq: 10 Aug 2015 17:14

Tgt Ion:149 Resp: 188242
Ion Ratio Lower Upper
149 100
167 27.8 21.4 32.2
279 4.7 3.2 4.8

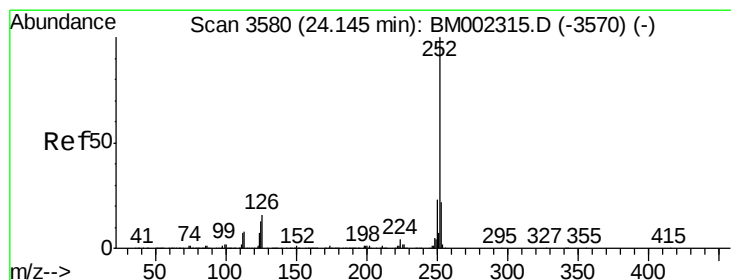
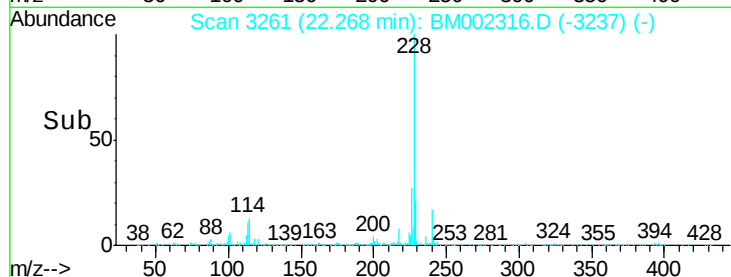
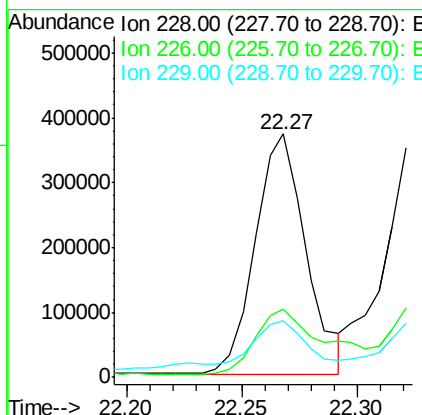
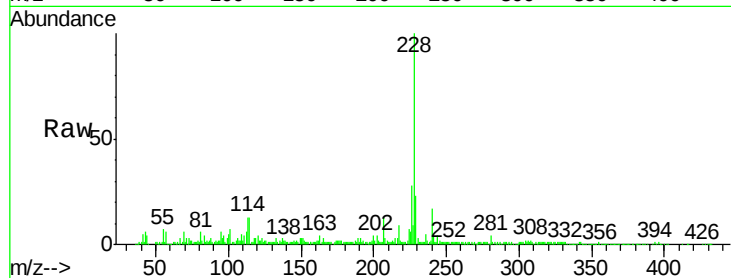




#85
Chrysene
Concen: 25.65 ng/ul
RT: 22.27 min Scan# 3261
Delta R.T. -0.06 min
Lab File: BM002316.D
Acq: 10 Aug 2015 17:14

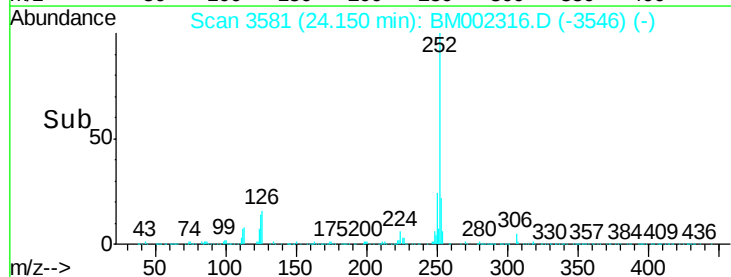
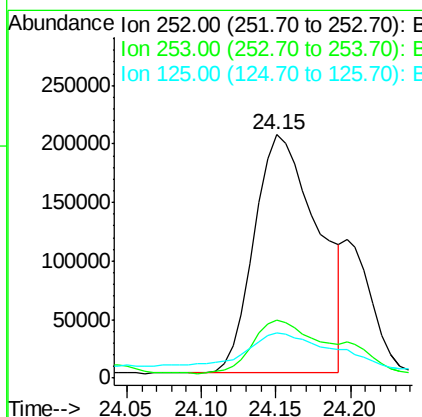
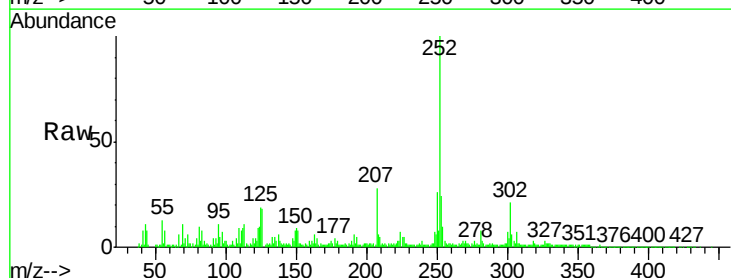
Instrument :
BNA_M
ClientSampled :

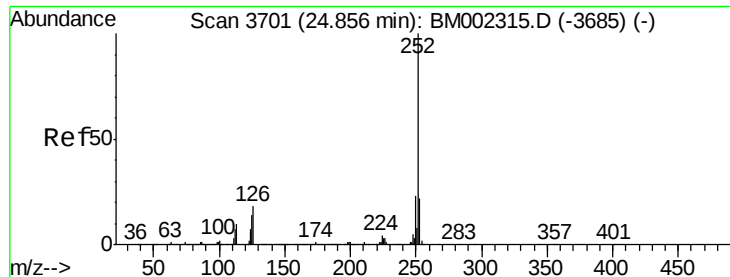
Tot Ion	Ratio	Lower	Upper
228	100		
226	27.8	23.4	35.0
229	23.1	15.5	23.3



#88
Benzo(b)fluoranthene
Concen: 26.18 ng/ul
RT: 24.15 min Scan# 3581
Delta R.T. 0.01 min
Lab File: BM002316.D
Acq: 10 Aug 2015 17:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.9	26.9
125	18.8	10.3	15.5#





#91

Benzo(a)pyrene

Concen: 19.94 ng/ul

RT: 24.86 min Scan# 3702

Delta R.T. 0.01 min

Lab File: BM002316.D

Acq: 10 Aug 2015 17:14

Instrument :

BNA_M

ClientSampleId :

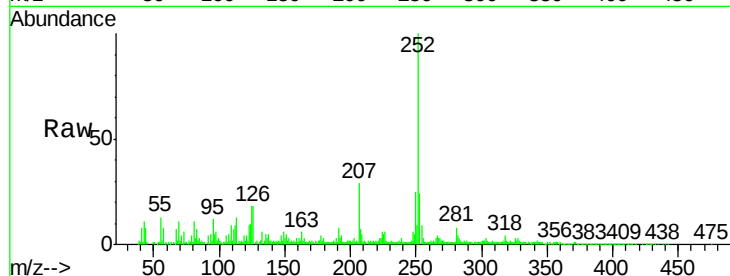
Tot Ion:252 Resp: 442040

Ion Ratio Lower Upper

252 100

253 24.3 17.3 25.9

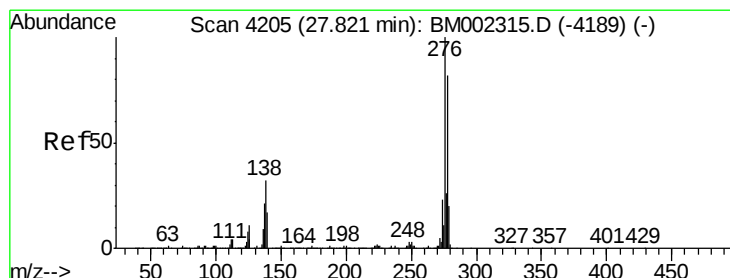
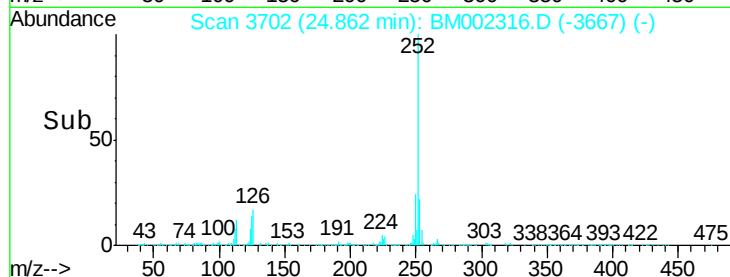
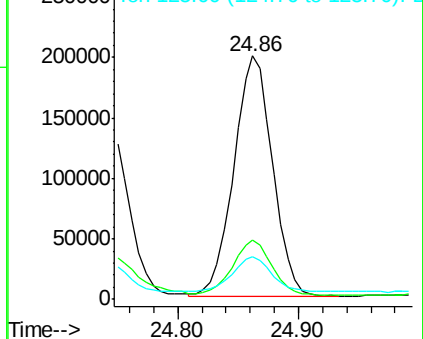
125 17.5 11.0 16.6#



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: 12.48 ng/ul

RT: 27.83 min Scan# 4207

Delta R.T. 0.01 min

Lab File: BM002316.D

Acq: 10 Aug 2015 17:14

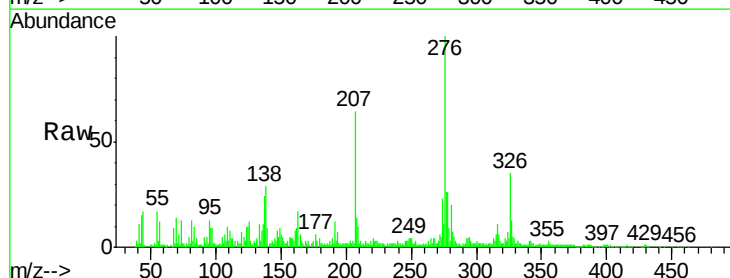
Tgt Ion:276 Resp: 317055

Ion Ratio Lower Upper

276 100

138 29.2 25.6 38.4

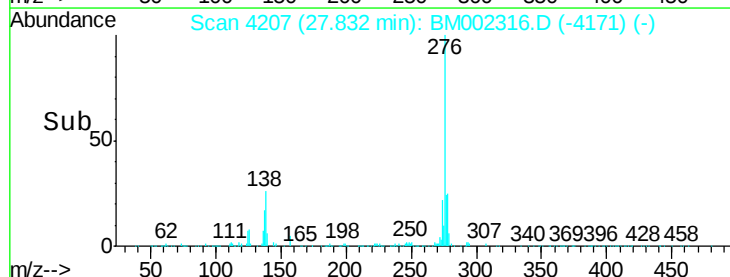
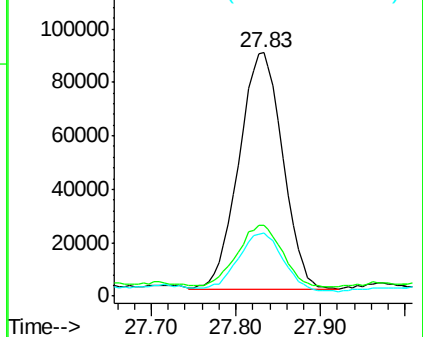
277 25.7 21.0 31.4

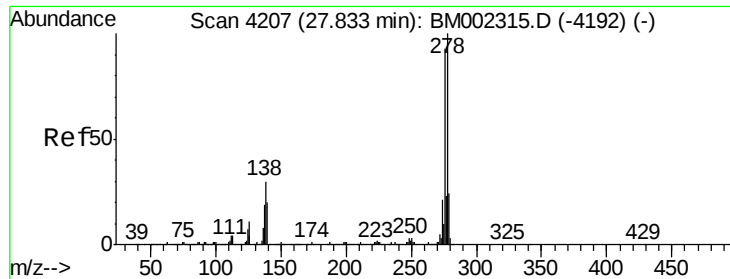


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#93

Dibenzo(a,h)anthracene

Concen: 4.68 ng/ul

RT: 27.83 min Scan# 4207

Delta R.T. -0.00 min

Lab File: BM002316.D

Acq: 10 Aug 2015 17:14

Instrument :

BNA_M

ClientSampleId :

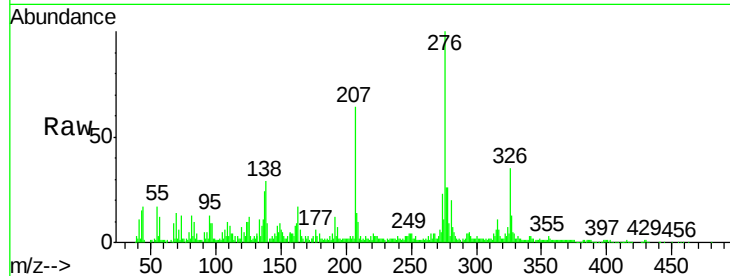
Tot Ion:278 Resp: 100691

Ion Ratio Lower Upper

278 100

139 33.3 16.4 24.6#

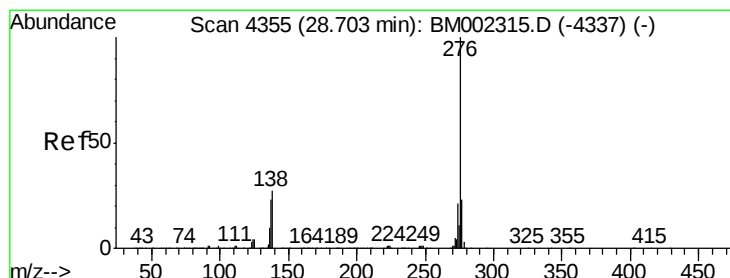
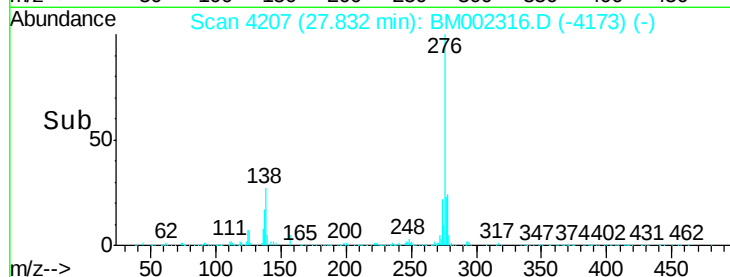
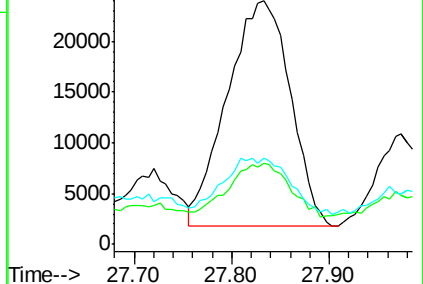
279 35.1 18.8 28.2#



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: 14.50 ng/ul

RT: 28.72 min Scan# 4358

Delta R.T. 0.02 min

Lab File: BM002316.D

Acq: 10 Aug 2015 17:14

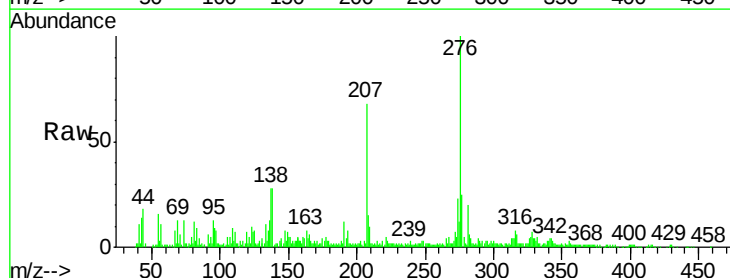
Tgt Ion:276 Resp: 310854

Ion Ratio Lower Upper

276 100

138 28.3 20.5 30.7

277 25.3 19.0 28.6



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

