

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052516\
 Data File : BM005648.D
 Acq On : 25 May 2016 21:51
 Operator : UM/SJ
 Sample : H3086-18RE
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 JHGL2

Quant Time: May 26 00:31:38 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed May 25 19:26:23 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.79	152	114015	20.00	ng/ul	0.00
18) Naphthalene-d8	10.58	136	578234	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.43	164	346157	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.18	188	753899	20.00	ng/ul	0.01
75) Chrysene-d12	21.37	240	633209	20.00	ng/ul	0.02
83) Perylene-d12	23.64	264	565370	20.00	ng/ul	0.02

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.24	96	5905	2.27	ng/uL	0.00
5) Phenol-d5	6.97	99	191247	20.46	ng/ul	0.01
7) Bis-(2-Chloroethyl)ether-d	7.12	67	105523	19.48	ng/ul	0.00
9) 2-Chlorophenol-d4	7.33	132	149397	19.16	ng/ul	0.00
13) 4-Methylphenol-d8	8.51	113	172335	22.50	ng/ul	0.01
19) Nitrobenzene-d5	8.95	128	82458	18.65	ng/ul	0.00
22) 2-Nitrophenol-d4	9.66	143	93513	19.22	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.21	165	178135	19.44	ng/ul	0.00
29) 4-Chloroaniline-d4	10.72	131	214541	23.37	ng/ul	0.00
43) Dimethylphthalate-d6	13.84	166	564988	19.99	ng/ul	0.00
46) Acenaphthylene-d8	14.12	160	731959	20.72	ng/ul	0.00
51) 4-Nitrophenol-d4	14.66	143	83997	15.72	ng/ul	0.01
57) Fluorene-d10	15.42	176	511815	20.82	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.56	200	40363	9.31	ng/ul	0.01
70) Anthracene-d10	17.28	188	775530	21.60	ng/ul	0.01
76) Pyrene-d10	19.57	212	794725	27.71	ng/ul	0.02
87) Benzo(a)pyrene-d12	23.50	264	581729	22.04	ng/ul	0.03

Target Compounds

						Qvalue
28) Naphthalene	10.63	128	319176	10.99	ng/ul	99
30) 4-Chloroaniline	10.63	127	41146	4.38	ng/ul#	4
32) Caprolactam	11.59	113	4888	1.62	ng/ul#	41
34) 2-Methylnaphthalene	12.24	142	101699	4.78	ng/ul	98
40) 1,1'-Biphenyl	13.26	154	71262	2.45	ng/ul	97
44) Dimethylphthalate	13.88	163	157946	5.66	ng/ul	99
47) Acenaphthylene	14.15	152	579916	16.16	ng/ul	97
49) Acenaphthene	14.49	153	134211	5.67	ng/ul	99
53) Dibenzofuran	14.83	168	193001	5.71	ng/ul	99
58) Fluorene	15.48	166	433721	16.04	ng/ul	100
64) N-Nitrosodiphenylamine	15.69	169	31643	1.38	ng/ul	95
69) Phenanthrene	17.23	178	3357752	79.69	ng/ul	98
71) Anthracene	17.31	178	954058	22.22	ng/ul	100
72) Carbazole	17.58	167	107470	2.88	ng/ul	92
74) Fluoranthene	19.25	202	4113417	86.73	ng/ul	100
77) Pyrene	19.62	202	4343108	119.31	ng/ul	97
79) 3,3'-Dichlorobenzidine	21.28	252	12919	1.13	ng/ul#	91
80) Benzo(a)anthracene	21.35	228	1511033	40.60	ng/ul#	87
82) Chrysene	21.40	228	1615847	45.63	ng/ul	95
85) Benzo(b)fluoranthene	22.96	252	1372199	41.15	ng/ul#	95
86) Benzo(k)fluoranthene	22.96	252	1372199	43.47	ng/ul#	96
88) Benzo(a)pyrene	23.55	252	1260759	38.98	ng/ul	97
89) Indeno(1,2,3-cd)pyrene	25.96	276	644026	16.76	ng/ul	99

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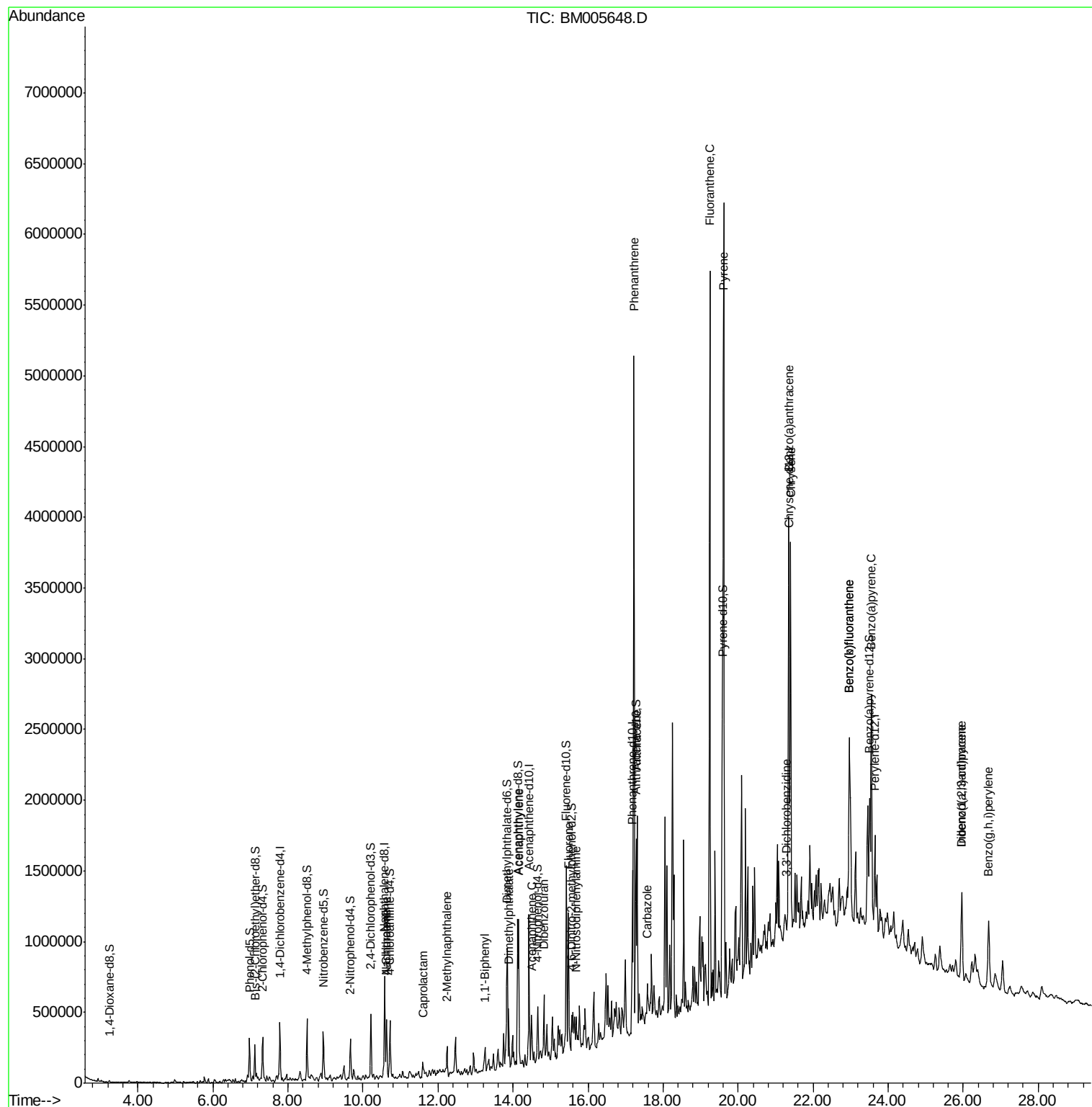
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) Dibenzo(a,h)anthracene	25.96	278	153767	4.81	ng/ul#	85
91) Benzo(g,h,i)perylene	26.68	276	626505	19.40	ng/ul	97

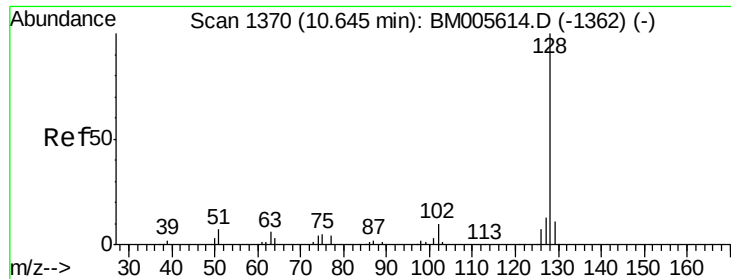
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#28

Naphthalene

Concen: 10.99 ng/ul

RT: 10.63 min Scan# 1367

Delta R.T. -0.00 min

Lab File: BM005648.D

Acq: 25 May 2016 21:51

Instrument :

BNA_M

ClientSampleId :

JHGL2

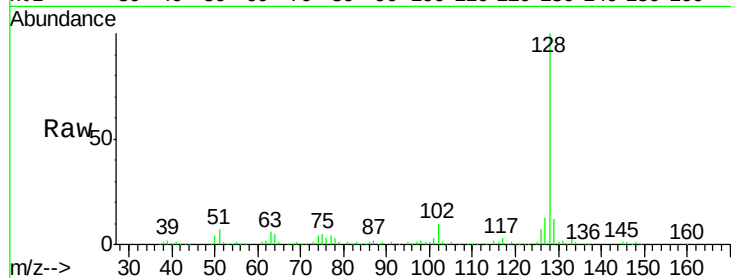
Tgt Ion:128 Resp: 319176

Ion Ratio Lower Upper

128 100

129 11.6 8.6 13.0

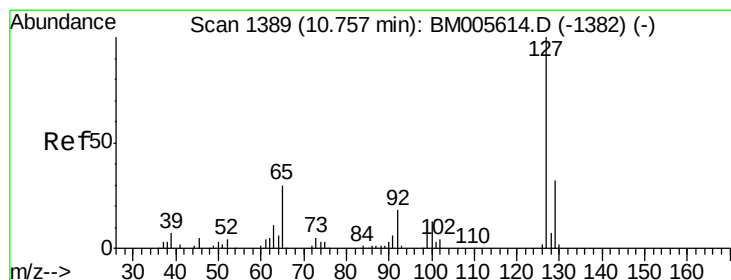
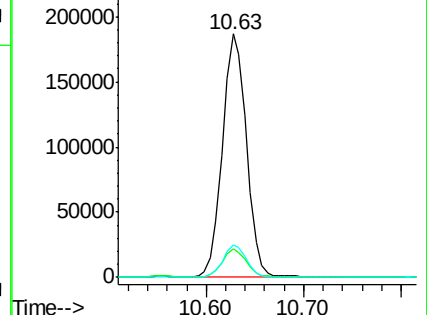
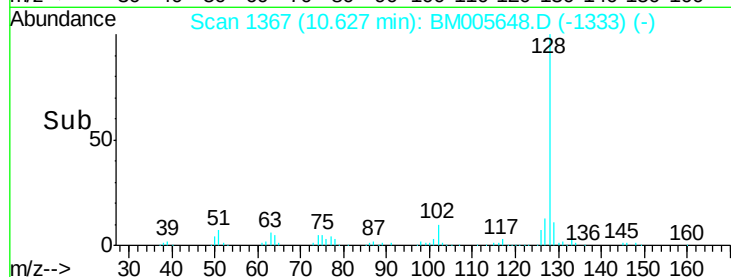
127 13.1 10.6 15.8



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



#30

4-Chloroaniline

Concen: 4.38 ng/ul

RT: 10.63 min Scan# 1367

Delta R.T. -0.11 min

Lab File: BM005648.D

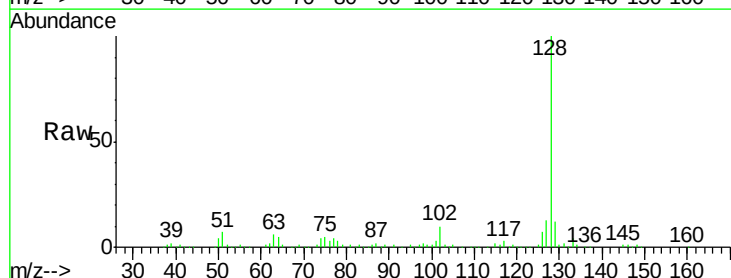
Acq: 25 May 2016 21:51

Tgt Ion:127 Resp: 41146

Ion Ratio Lower Upper

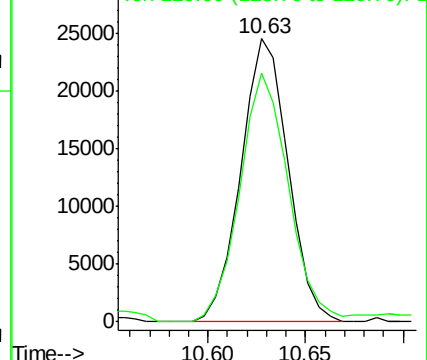
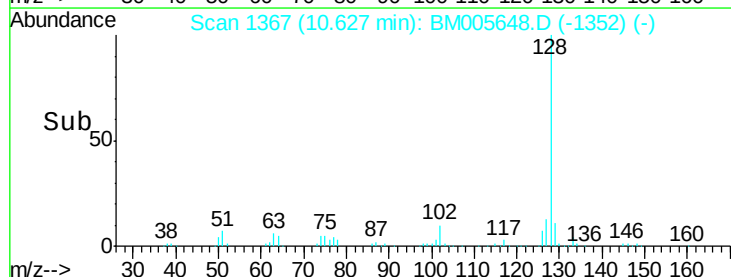
127 100

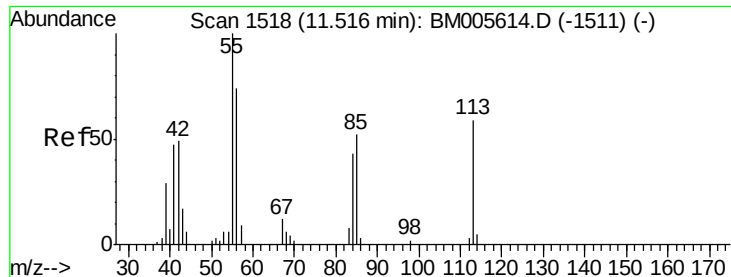
129 88.0 26.9 40.3#



Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E





#32

Caprolactam

Concen: 1.62 ng/ul

RT: 11.59 min Scan# 1531

Delta R.T. 0.09 min

Lab File: BM005648.D

Acq: 25 May 2016 21:51

Instrument :

BNA_M

ClientSampleId :

JHGL2

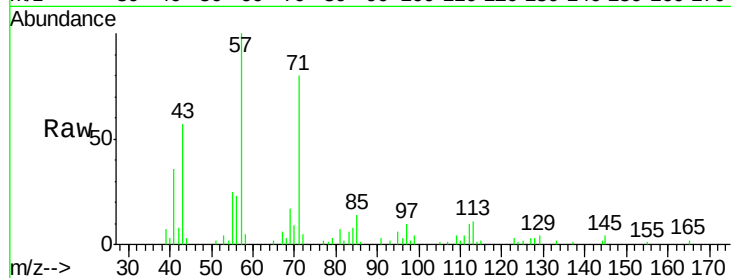
Tgt Ion:113 Resp: 4888

Ion Ratio Lower Upper

113 100

55 217.5 124.6 187.0#

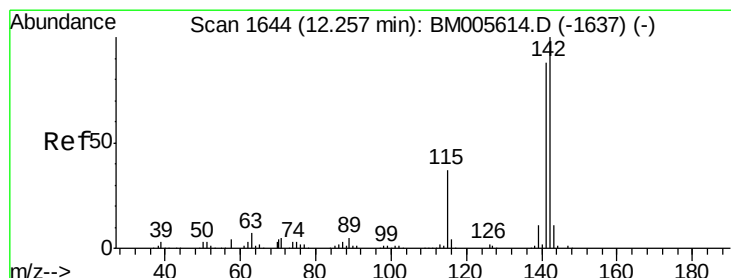
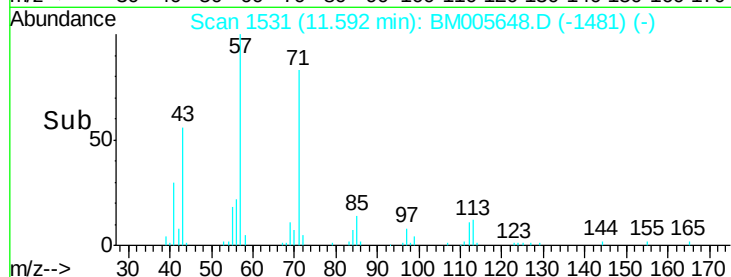
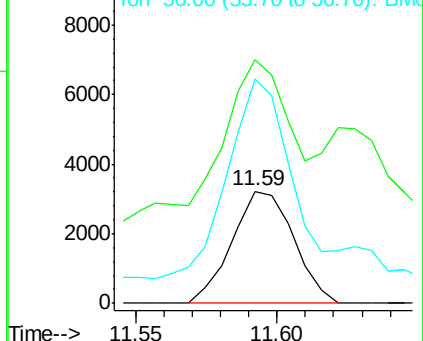
56 200.5 95.2 142.8#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BM0

Ion 56.00 (55.70 to 56.70): BM0



#34

2-Methylnaphthalene

Concen: 4.78 ng/ul

RT: 12.24 min Scan# 1642

Delta R.T. 0.01 min

Lab File: BM005648.D

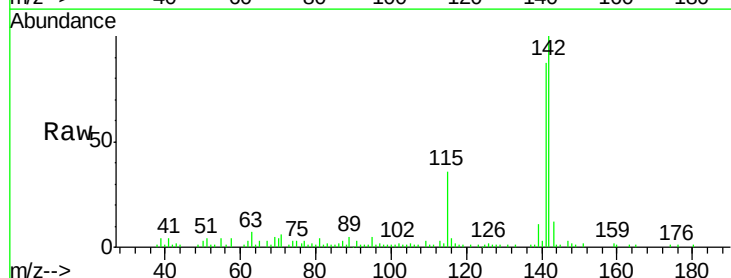
Acq: 25 May 2016 21:51

Tgt Ion:142 Resp: 101699

Ion Ratio Lower Upper

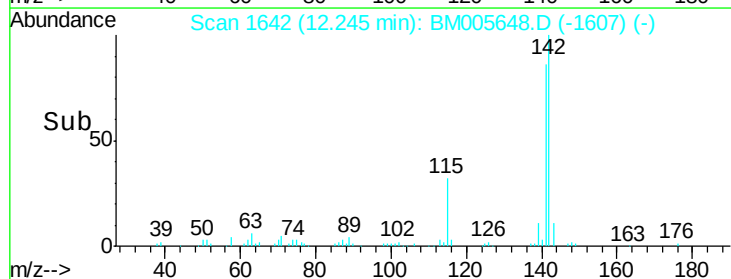
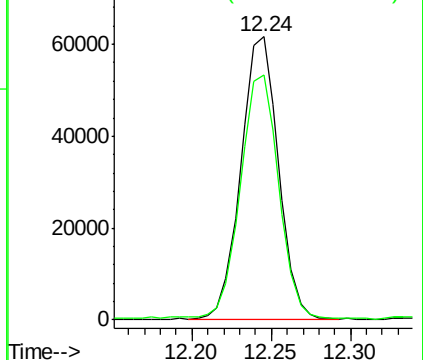
142 100

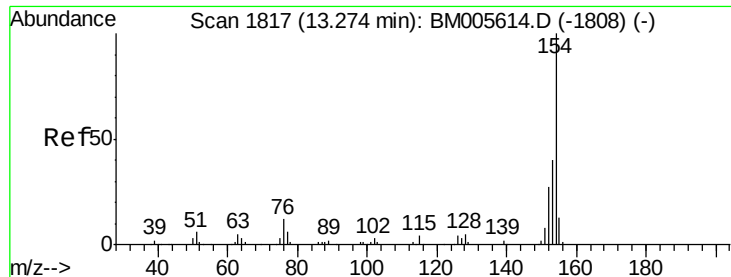
141 86.7 70.6 106.0



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

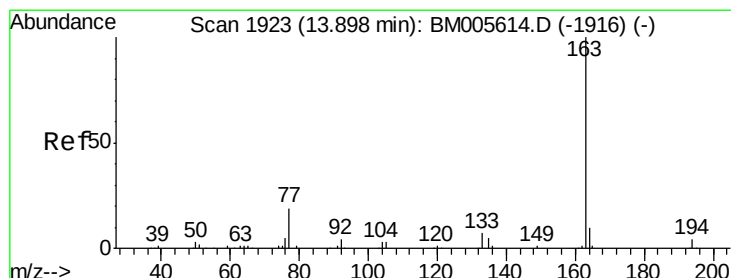
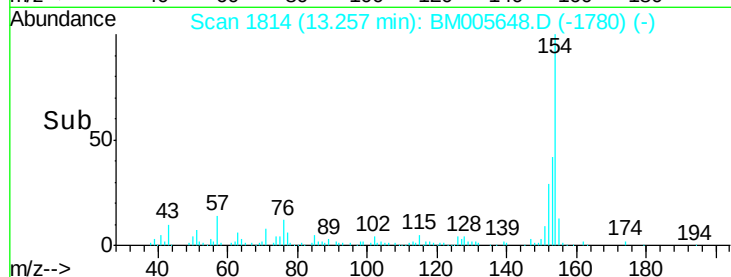
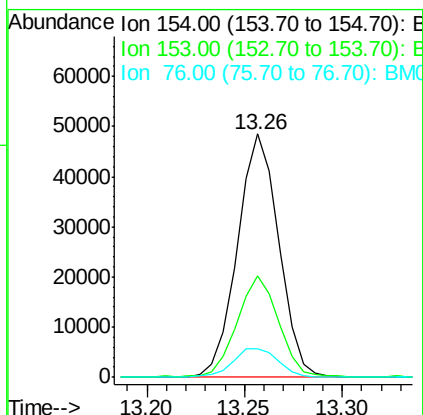
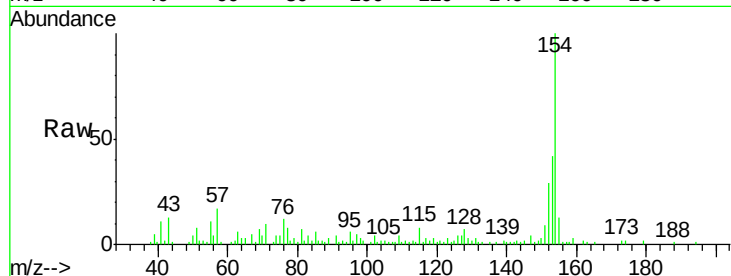




#40
 1,1'-Biphenyl
 Concen: 2.45 ng/ul
 RT: 13.26 min Scan# 1814
 Delta R.T. -0.00 min
 Lab File: BM005648.D
 Acq: 25 May 2016 21:51

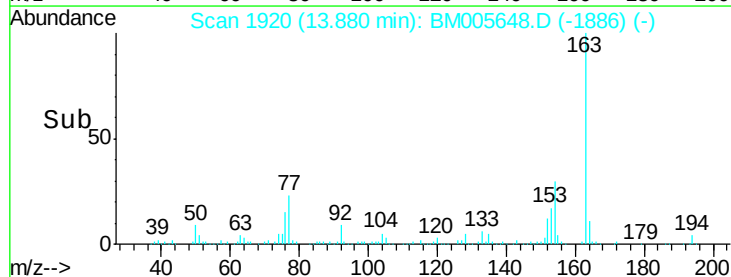
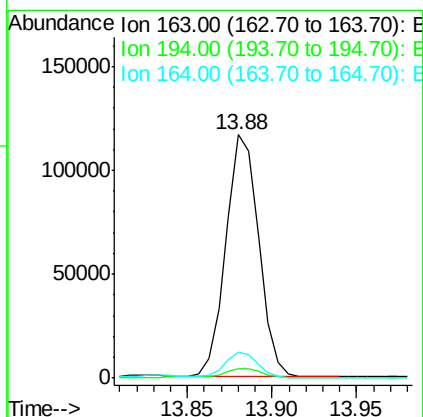
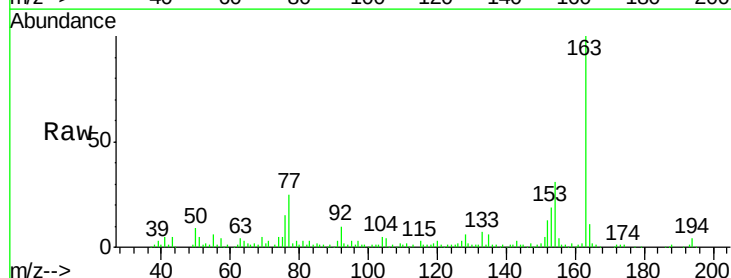
Instrument :
 BNA_M
 ClientSampleId :
 JHGL2

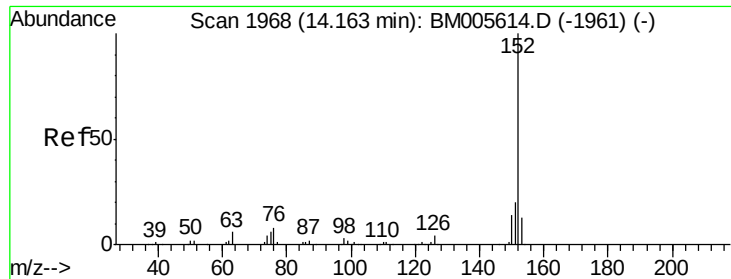
Tgt Ion:154 Resp: 71262
 Ion Ratio Lower Upper
 154 100
 153 41.5 31.7 47.5
 76 11.8 10.1 15.1



#44
 Dimethylphthalate
 Concen: 5.66 ng/ul
 RT: 13.88 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: BM005648.D
 Acq: 25 May 2016 21:51

Tgt Ion:163 Resp: 157946
 Ion Ratio Lower Upper
 163 100
 194 4.0 3.4 5.0
 164 10.6 8.0 12.0





#47

Acenaphthylene

Concen: 16.16 ng/ul

RT: 14.15 min Scan# 1966

Delta R.T. 0.01 min

Lab File: BM005648.D

Acq: 25 May 2016 21:51

Instrument :

BNA_M

ClientSampleId :

JHGL2

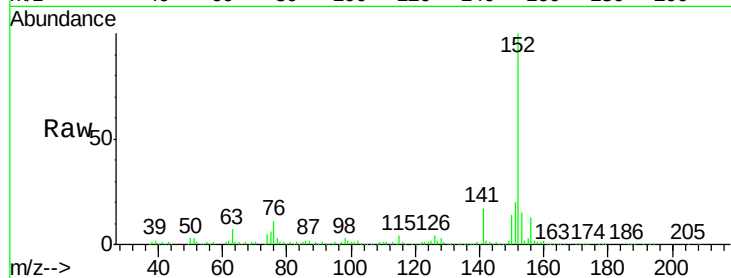
Tgt Ion:152 Resp: 579916

Ion Ratio Lower Upper

152 100

151 20.4 15.7 23.5

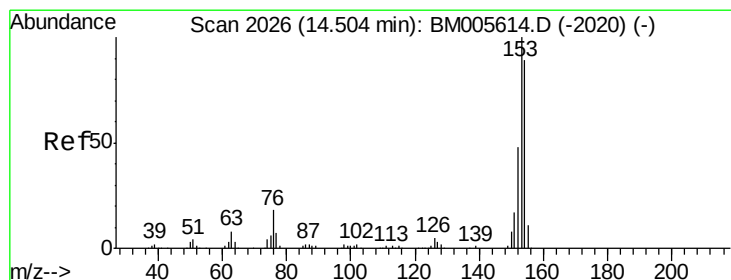
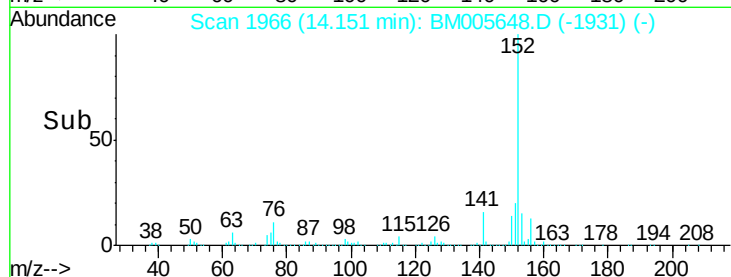
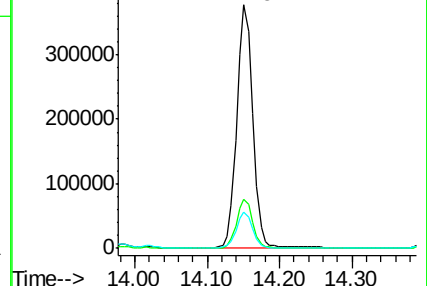
153 14.9 10.5 15.7



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



#49

Acenaphthene

Concen: 5.67 ng/ul

RT: 14.49 min Scan# 2024

Delta R.T. 0.01 min

Lab File: BM005648.D

Acq: 25 May 2016 21:51

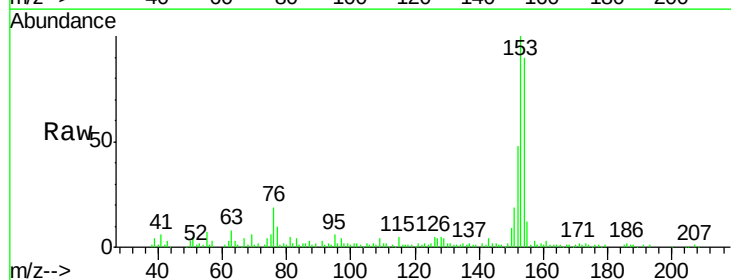
Tgt Ion:153 Resp: 134211

Ion Ratio Lower Upper

153 100

152 48.2 37.8 56.6

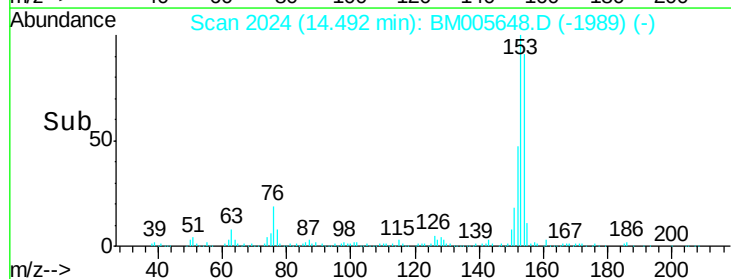
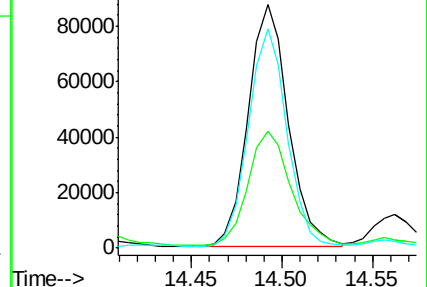
154 90.0 71.1 106.7

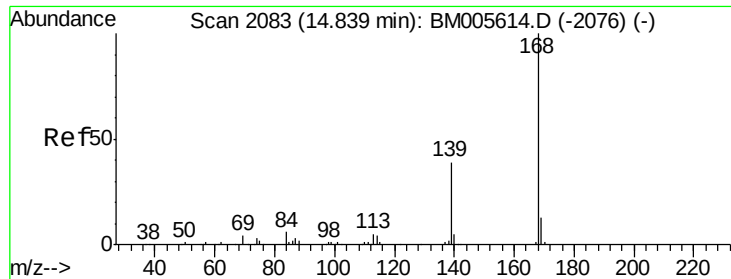


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#53

Dibenzenofuran

Concen: 5.71 ng/ul

RT: 14.83 min Scan# 2081

Delta R.T. 0.01 min

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ClientSampleId :

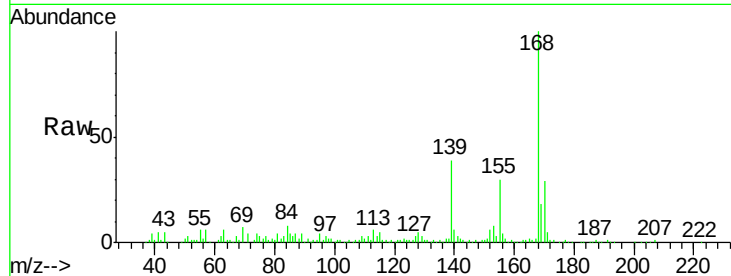
JHGL2

Tgt Ion:168 Resp: 193001

Ion Ratio Lower Upper

168 100

139 39.1 30.6 46.0



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

14.83

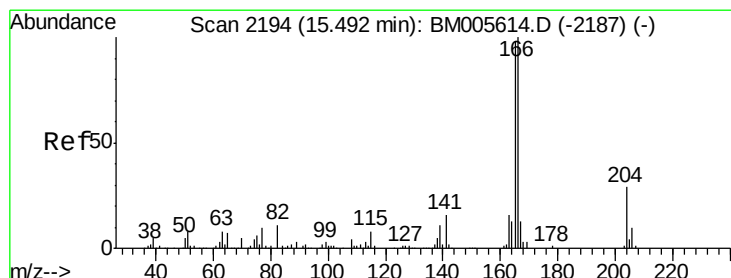
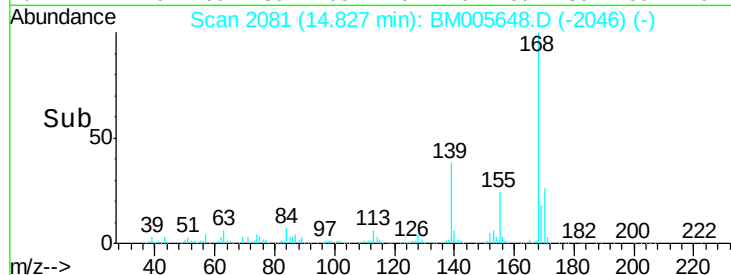
150000

100000

50000

0

Time-->



#58

Fluorene

Concen: 16.04 ng/ul

RT: 15.48 min Scan# 2192

Delta R.T. 0.01 min

Lab File: BM005648.D

Acq: 25 May 2016 21:51

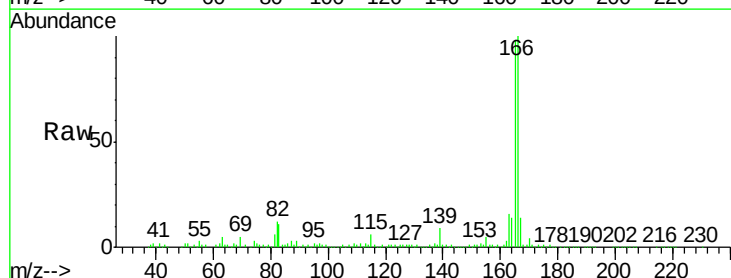
Tgt Ion:166 Resp: 433721

Ion Ratio Lower Upper

166 100

165 97.6 78.0 117.0

167 14.0 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

15.48

400000

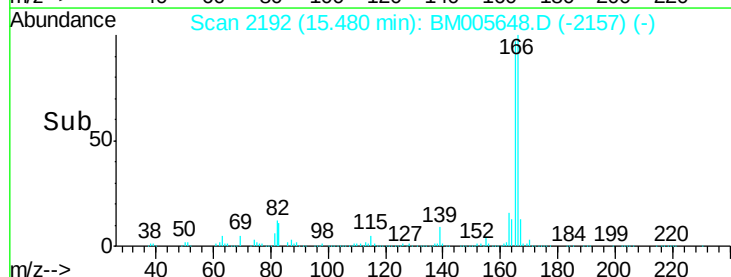
300000

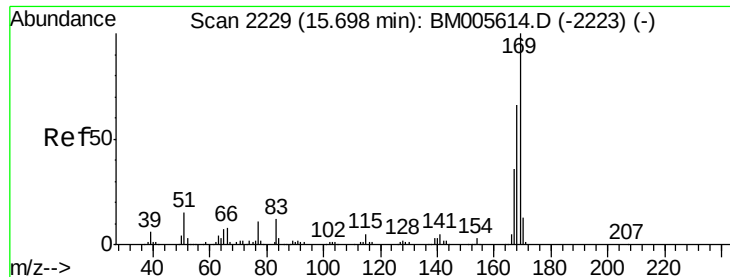
200000

100000

0

Time-->





#64

N-Nitrosodiphenylamine

Concen: 1.38 ng/ul

RT: 15.69 min Scan# 2228

Delta R.T. 0.01 min

Lab File: BM005648.D

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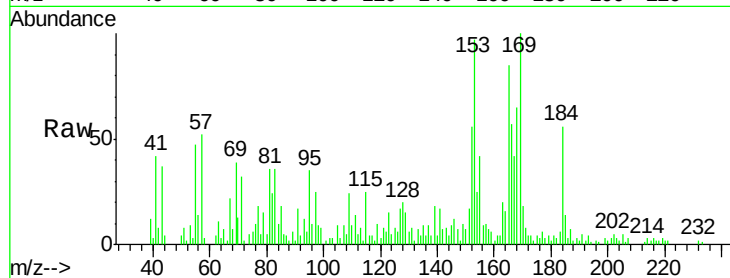
Tgt Ion:169 Resp: 31643

Ion Ratio Lower Upper

169 100

168 65.1 53.2 79.8

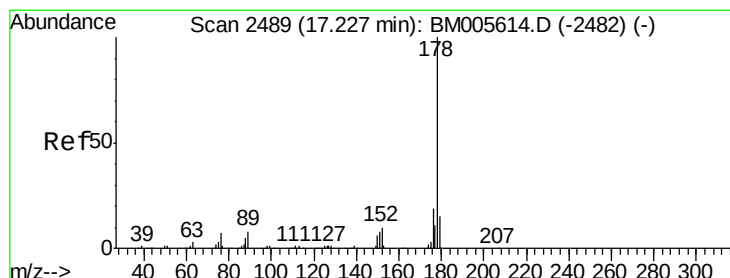
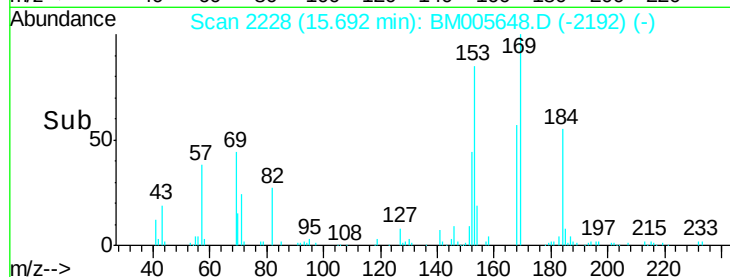
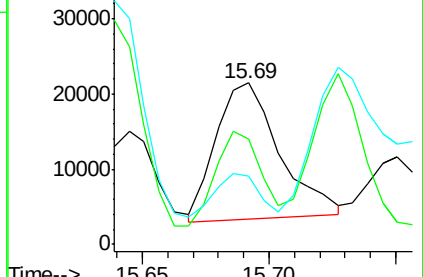
167 42.0 28.9 43.3



Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E



#69

Phenanthrene

Concen: 79.69 ng/ul

RT: 17.23 min Scan# 2489

Delta R.T. 0.02 min

Lab File: BM005648.D

Acq: 25 May 2016 21:51

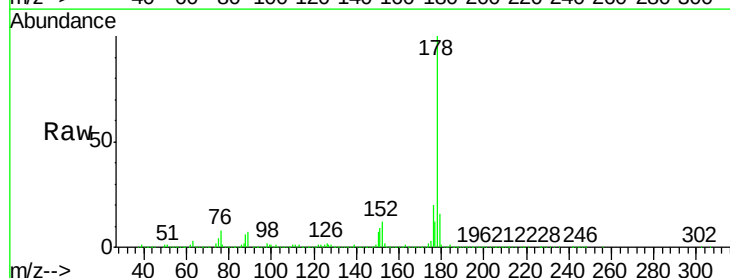
Tgt Ion:178 Resp: 3357752

Ion Ratio Lower Upper

178 100

179 16.0 12.2 18.2

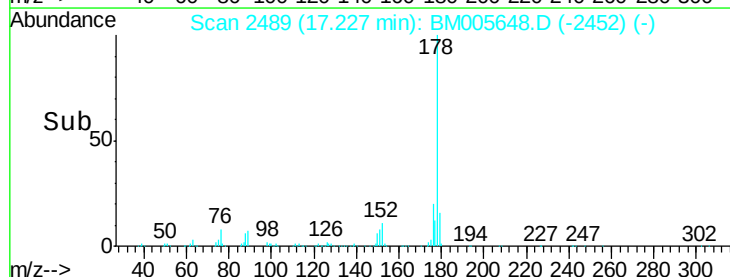
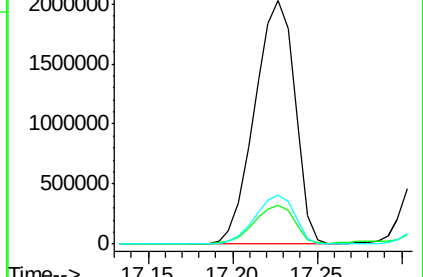
176 20.4 15.8 23.6

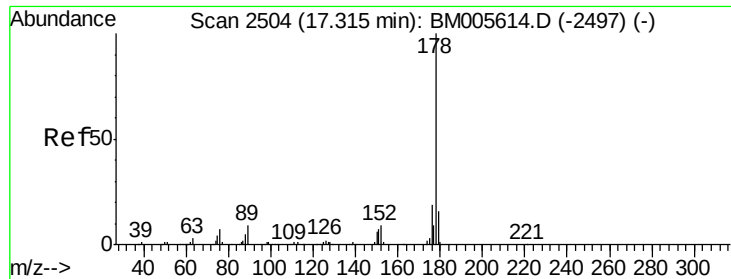


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

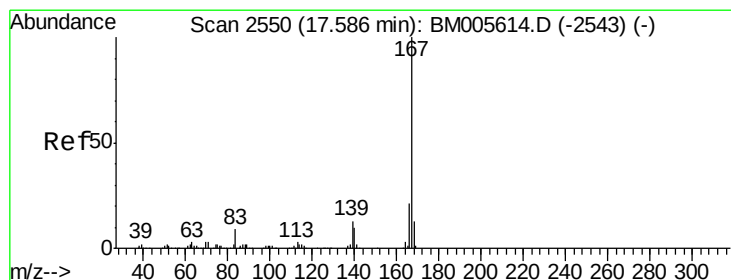
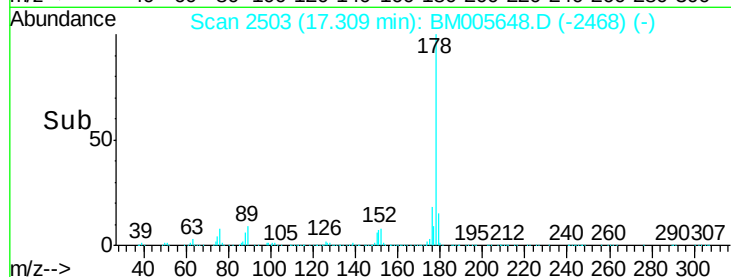
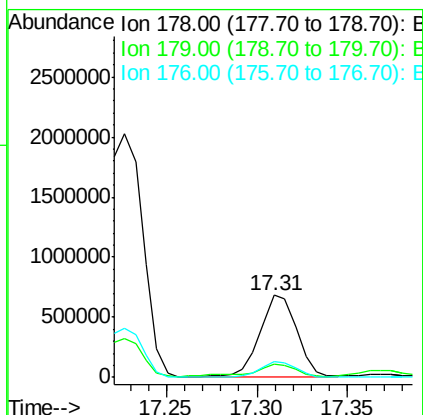
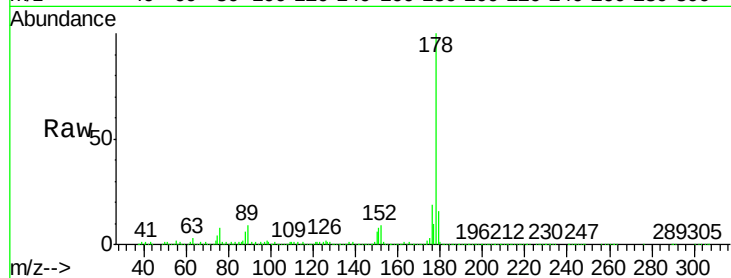




#71
 Anthracene
 Concen: 22.22 ng/ul
 RT: 17.31 min Scan# 2503
 Delta R.T. 0.01 min
 Lab File: BM005648.D
 Acq: 25 May 2016 21:51

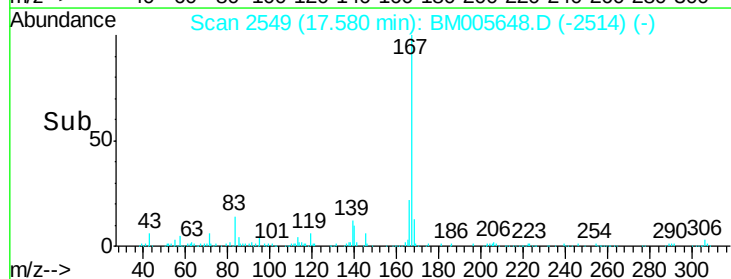
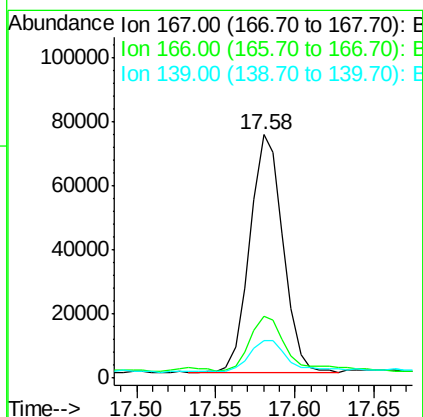
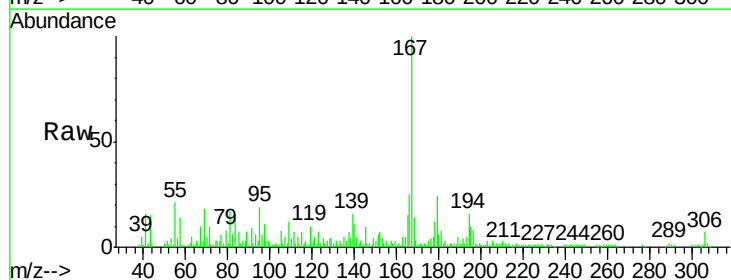
Instrument :
 BNA_M
 ClientSampleId :
 JHGL2

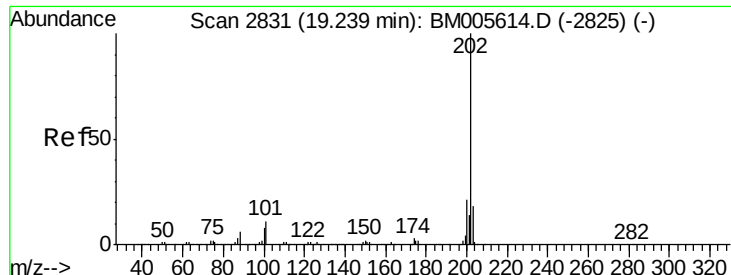
Tgt Ion:178 Resp: 954058
 Ion Ratio Lower Upper
 178 100
 179 15.8 12.6 18.8
 176 18.5 15.0 22.4



#72
 Carbazole
 Concen: 2.88 ng/ul
 RT: 17.58 min Scan# 2549
 Delta R.T. 0.01 min
 Lab File: BM005648.D
 Acq: 25 May 2016 21:51

Tgt Ion:167 Resp: 107470
 Ion Ratio Lower Upper
 167 100
 166 25.2 16.9 25.3
 139 15.6 10.6 16.0





#74

Fluoranthene

Concen: 86.73 ng/ul

RT: 19.25 min Scan# 2833

Delta R.T. 0.02 min

Lab File: BM005648.D

Acq: 25 May 2016 21:51

Instrument :

BNA_M

ClientSampleId :

JHGL2

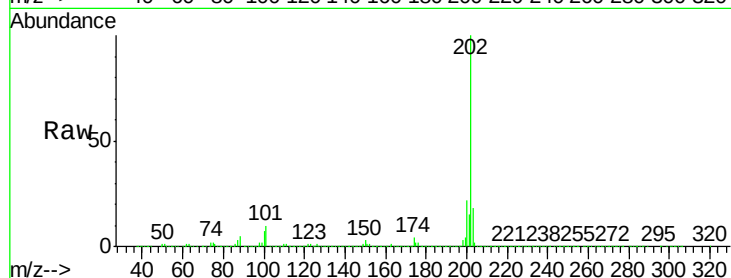
Tgt Ion:202 Resp: 4113417

Ion Ratio Lower Upper

202 100

101 9.6 7.9 11.9

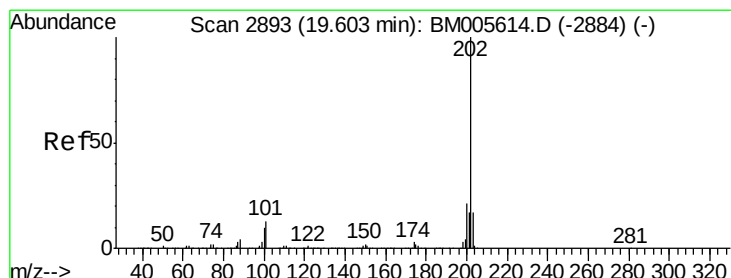
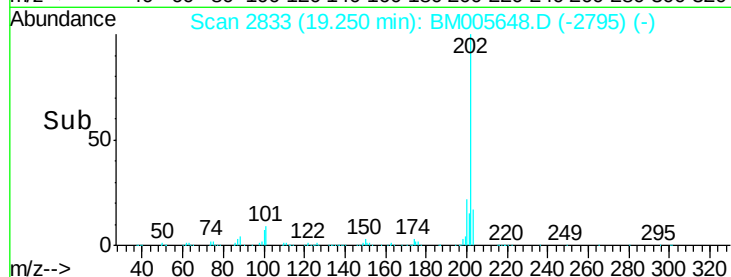
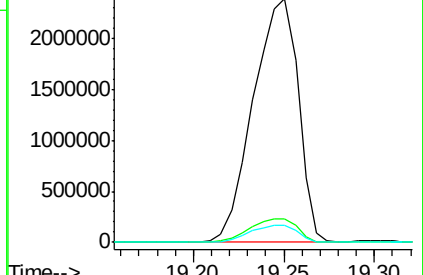
100 7.0 5.6 8.4



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



#77

Pyrene

Concen: 119.31 ng/ul

RT: 19.62 min Scan# 2895

Delta R.T. 0.03 min

Lab File: BM005648.D

Acq: 25 May 2016 21:51

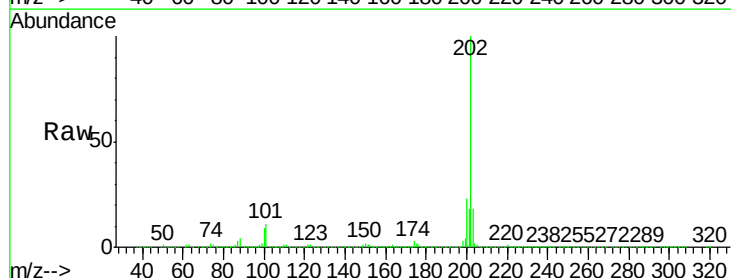
Tgt Ion:202 Resp: 4343108

Ion Ratio Lower Upper

202 100

101 11.0 9.6 14.4

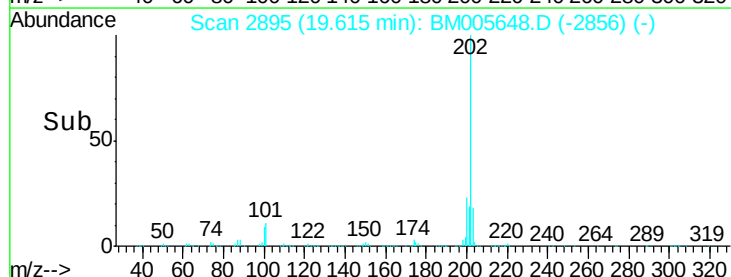
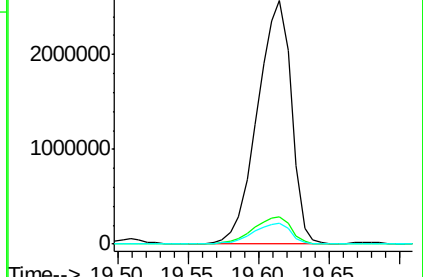
100 8.5 7.8 11.6

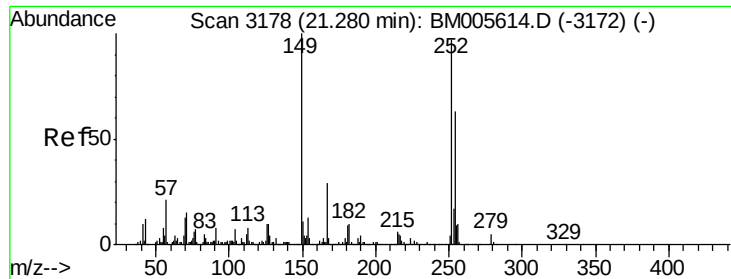


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

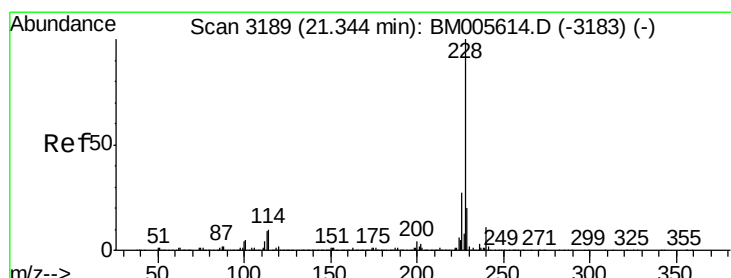
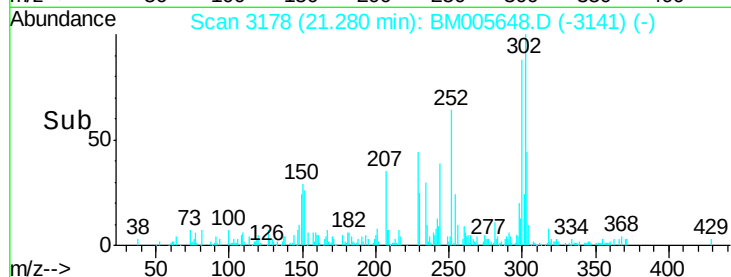
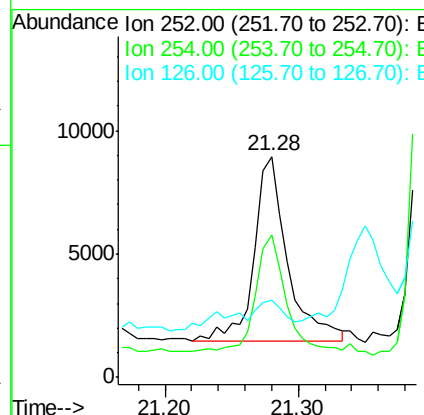
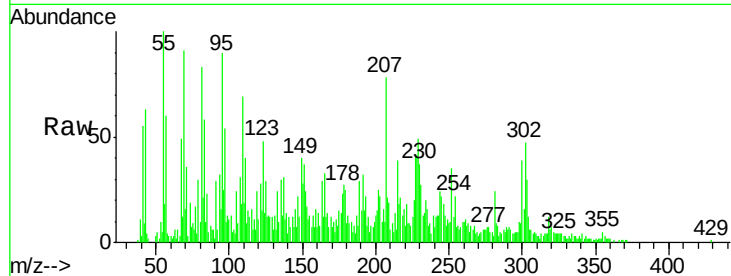




#79
 3,3'-Dichlorobenzidine
 Concen: 1.13 ng/ul
 RT: 21.28 min Scan# 3178
 Delta R.T. 0.02 min
 Lab File: BM005648.D
 Acq: 25 May 2016 21:51

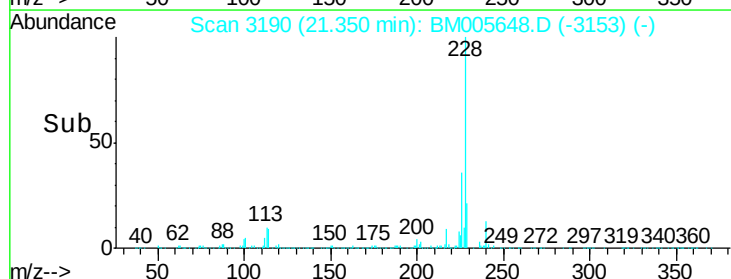
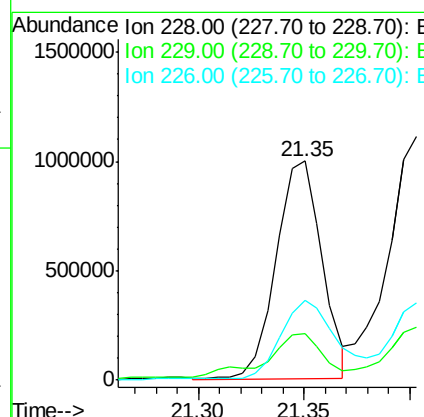
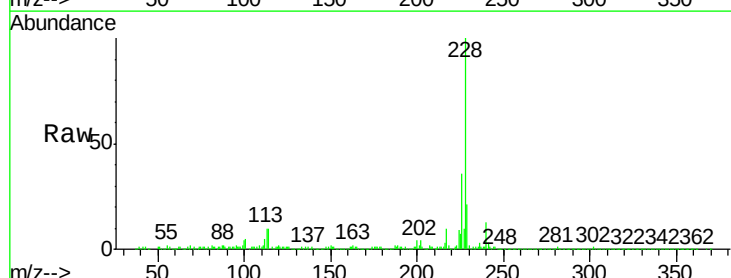
Instrument :
 BNA_M
 ClientSampleId :
 JHGL2

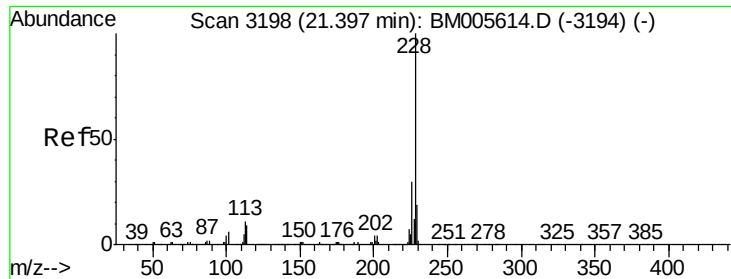
Tgt Ion:252 Resp: 12919
 Ion Ratio Lower Upper
 252 100
 254 64.6 51.7 77.5
 126 34.9 7.9 11.9#



#80
 Benzo(a)anthracene
 Concen: 40.60 ng/ul
 RT: 21.35 min Scan# 3190
 Delta R.T. 0.02 min
 Lab File: BM005648.D
 Acq: 25 May 2016 21:51

Tgt Ion:228 Resp: 1511033
 Ion Ratio Lower Upper
 228 100
 229 21.2 15.4 23.2
 226 36.3 21.0 31.4#





#82

Chrysene

Concen: 45.63 ng/ul

RT: 21.40 min Scan# 3199

Delta R.T. 0.02 min

Lab File: BM005648.D

Acq: 25 May 2016 21:51

Instrument :

BNA_M

ClientSampleId :

JHGL2

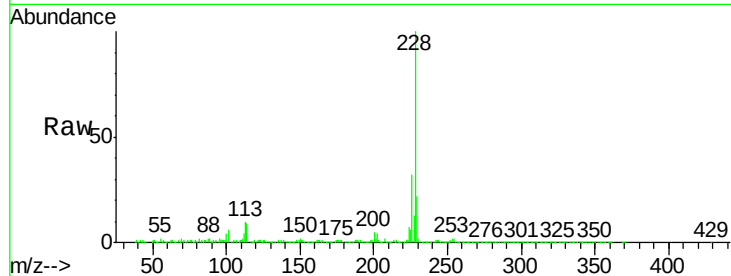
Tgt Ion:228 Resp: 1615847

Ion Ratio Lower Upper

228 100

226 31.8 23.7 35.5

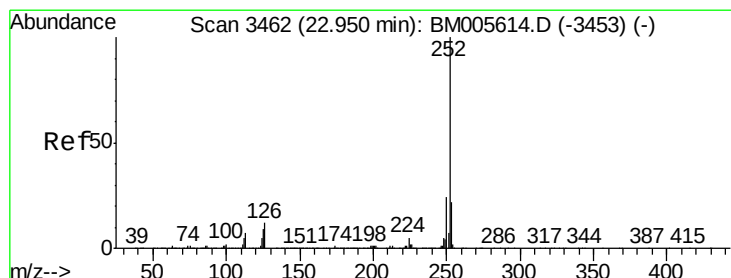
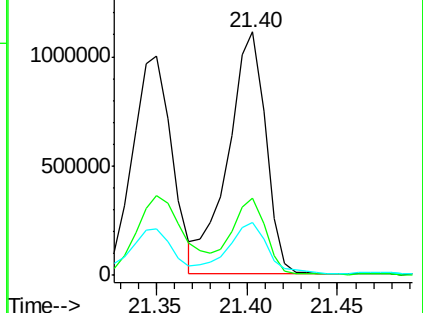
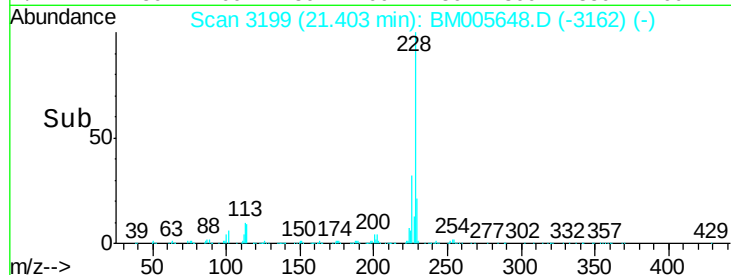
229 21.9 15.5 23.3



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

Benzo(b)fluoranthene

Concen: 41.15 ng/ul

RT: 22.96 min Scan# 3464

Delta R.T. 0.03 min

Lab File: BM005648.D

Acq: 25 May 2016 21:51

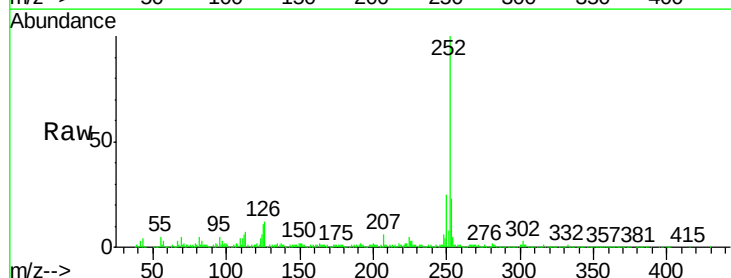
Tgt Ion:252 Resp: 1372199

Ion Ratio Lower Upper

252 100

253 23.5 17.3 25.9

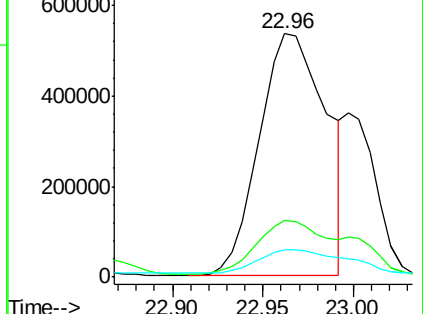
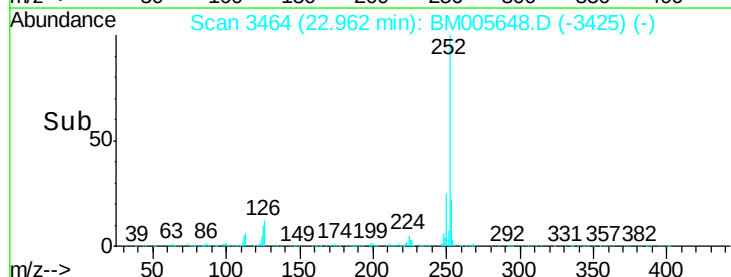
125 11.4 7.0 10.4#

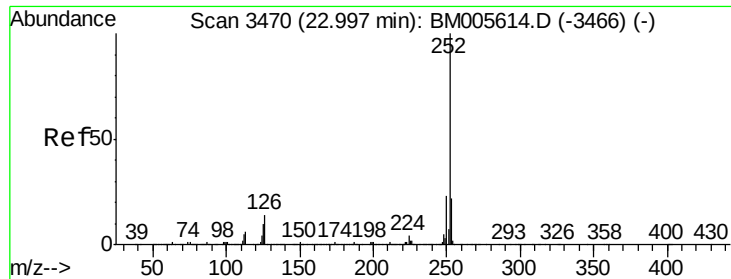


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

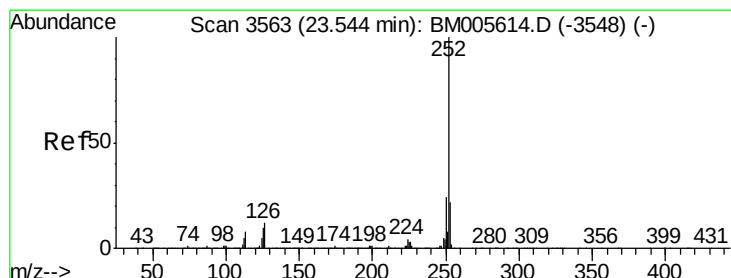
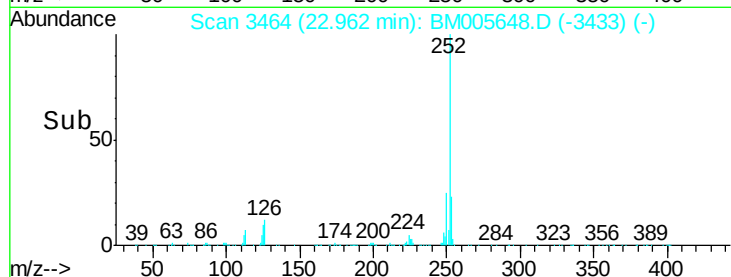
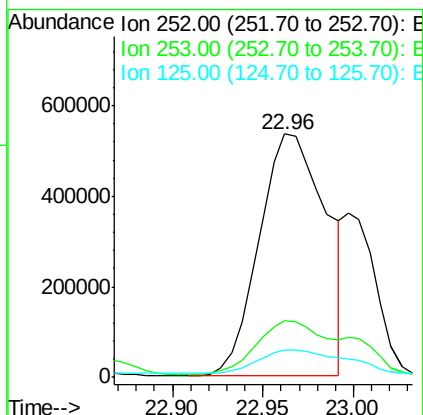
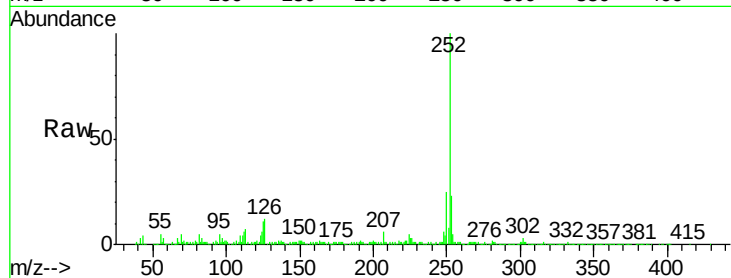




#86
Benzo(k)fluoranthene
Concen: 43.47 ng/ul
RT: 22.96 min Scan# 3464
Delta R.T. -0.02 min
Lab File: BM005648.D
Acq: 25 May 2016 21:51

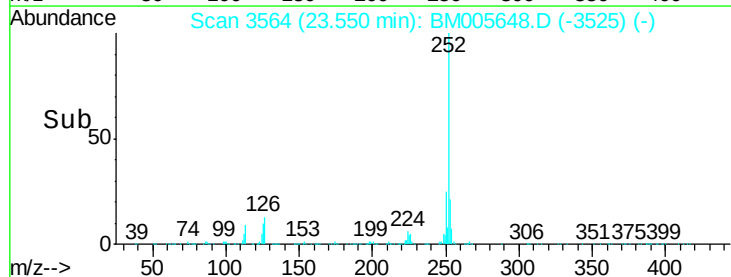
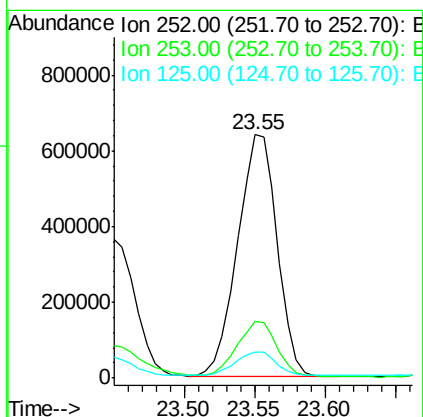
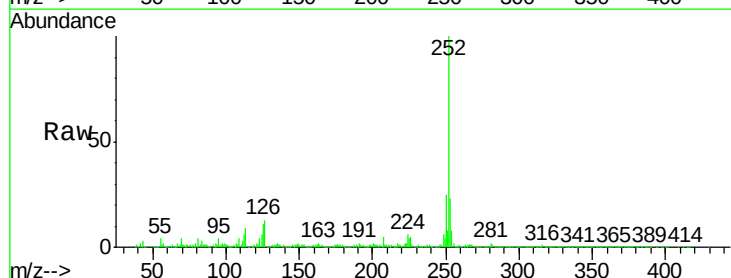
Instrument :
BNA_M
ClientSampleId :
JHGL2

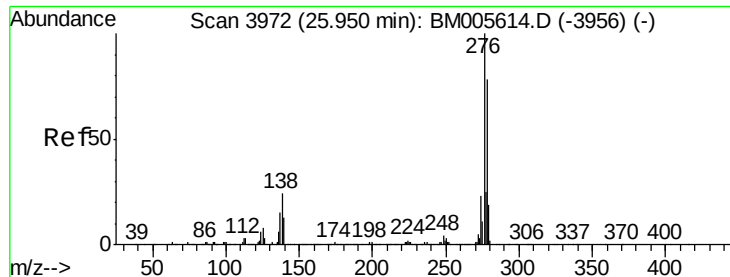
Tgt Ion:252 Resp: 1372199
Ion Ratio Lower Upper
252 100
253 23.5 17.5 26.3
125 11.4 7.0 10.6#



#88
Benzo(a)pyrene
Concen: 38.98 ng/ul
RT: 23.55 min Scan# 3564
Delta R.T. 0.03 min
Lab File: BM005648.D
Acq: 25 May 2016 21:51

Tgt Ion:252 Resp: 1260759
Ion Ratio Lower Upper
252 100
253 23.2 17.6 26.4
125 10.8 7.6 11.4





#89

Indeno(1,2,3-cd)pyrene

Concen: 16.76 ng/ul

RT: 25.96 min Scan# 3974

Delta R.T. 0.04 min

Lab File: BM005648.D

Acq: 25 May 2016 21:51

Instrument :

BNA_M

ClientSampleId :

JHGL2

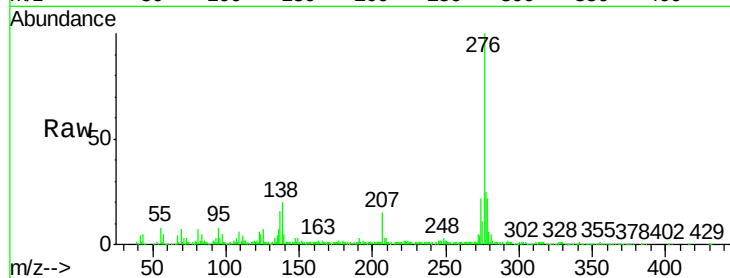
Tgt Ion:276 Resp: 644026

Ion Ratio Lower Upper

276 100

138 20.1 16.9 25.3

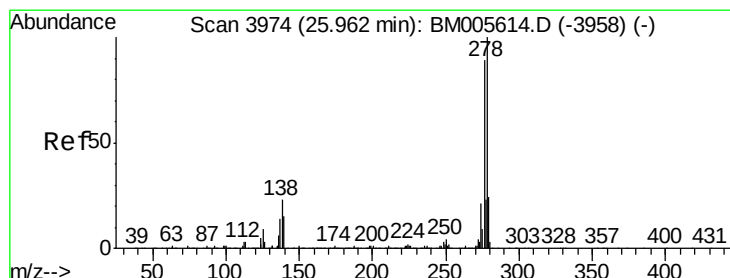
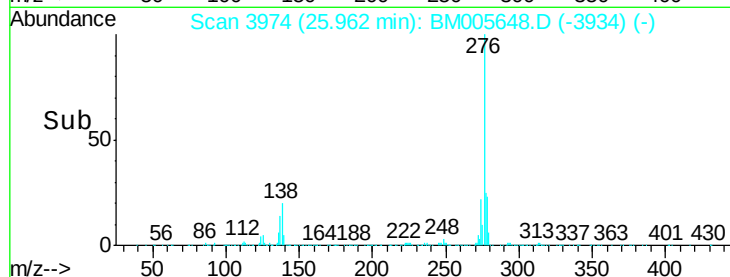
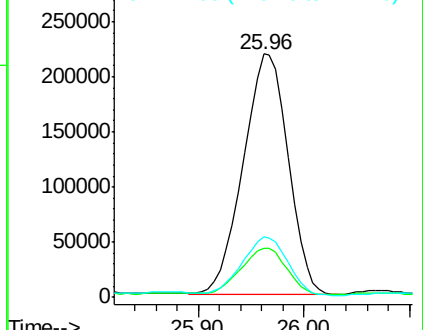
277 25.1 20.2 30.4



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



#90

Dibenzo(a,h)anthracene

Concen: 4.81 ng/ul

RT: 25.96 min Scan# 3974

Delta R.T. 0.03 min

Lab File: BM005648.D

Acq: 25 May 2016 21:51

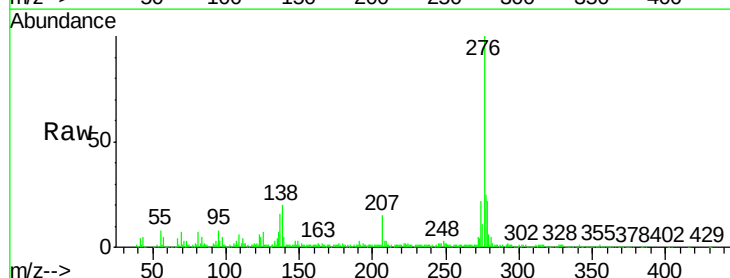
Tgt Ion:278 Resp: 153767

Ion Ratio Lower Upper

278 100

139 24.5 11.8 17.6#

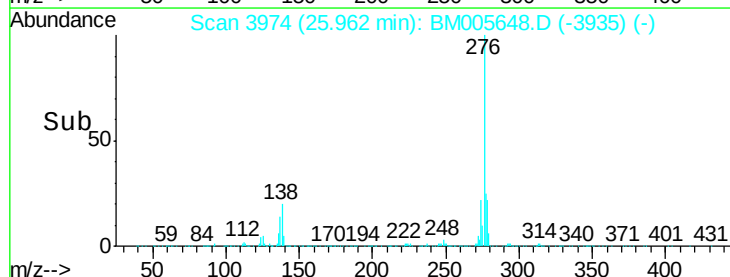
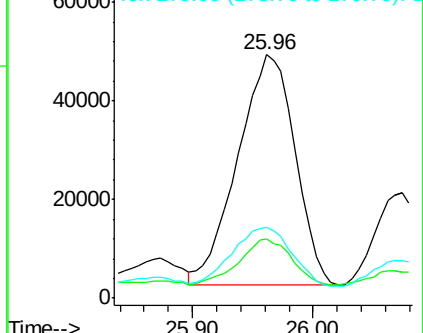
279 29.0 19.4 29.2

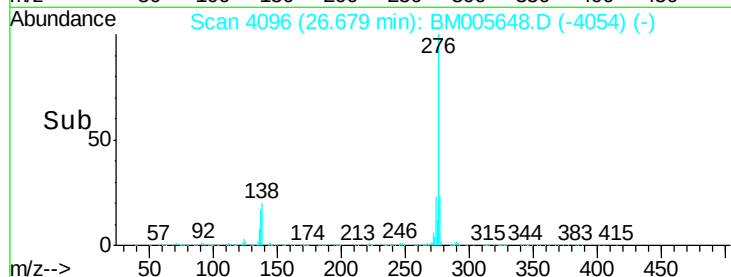
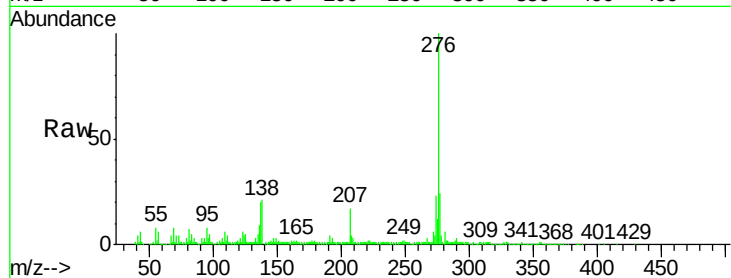
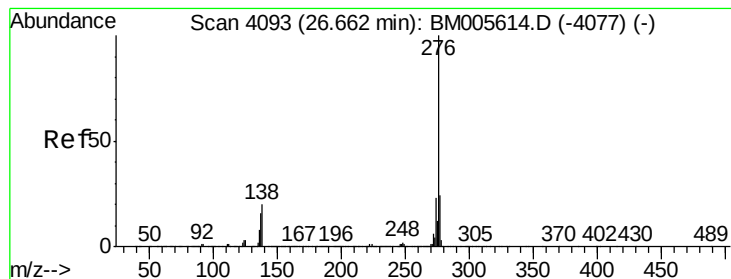


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(g,h,i)perylene

Concen: 19.40 ng/ul

RT: 26.68 min Scan# 4096

Delta R.T. 0.05 min

Lab File: BM005648.D

Acq: 25 May 2016 21:51

Instrument :

BNA_M

ClientSampleId :

JHGL2

Tgt Ion: 276 Resp: 626505

Ion Ratio Lower Upper

276 100

138 20.8 15.0 22.6

277 24.2 18.6 28.0

