

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM040815\
 Data File : BM000905.D
 Acq On : 08 Apr 2015 12:41
 Operator : TP/IZ
 Sample : PB82494BSD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 PB82494BSD

Quant Time: Apr 09 03:44:20 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SIMPAH-BM033115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 09 03:29:56 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.61	152	27057	5.00	ng	0.00
4) Naphthalene-d8	10.39	136	94252	5.00	ng	0.00
8) Acenaphthene-d10	14.26	164	48663	5.00	ng	0.00
13) Phenanthrene-d10	17.01	188	101690	5.00	ng	0.00
19) Chrysene-d12	21.21	240	92509	5.00	ng	0.00
25) Perylene-d12	23.38	264	81724	5.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) Nitrobenzene-d5	8.76	82	45949	7.94	ng	0.00
9) 2-Fluorobiphenyl	12.88	172	127397	8.44	ng	0.00
21) Terphenyl-d14	19.65	244	97129	8.73	ng	0.00

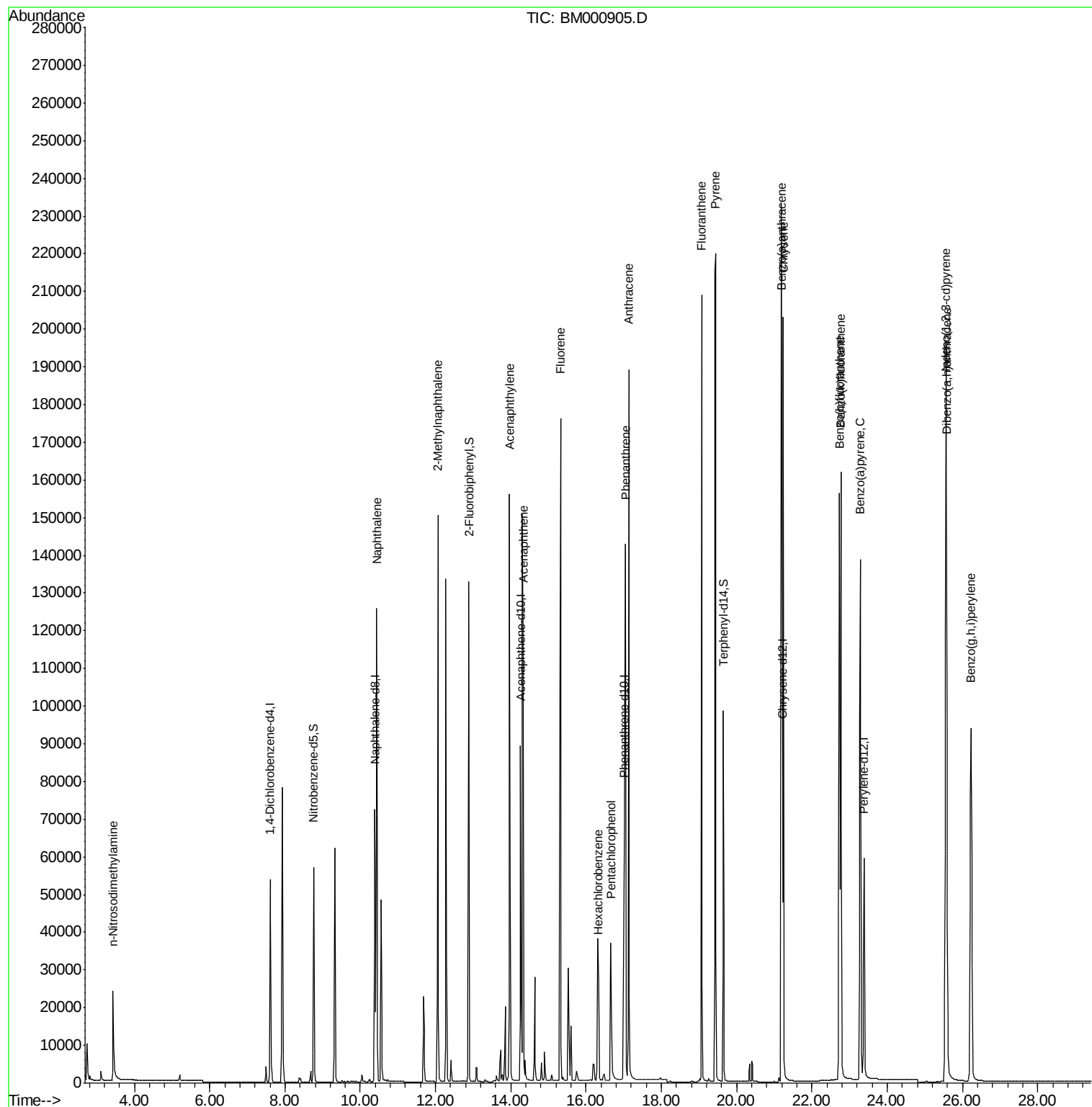
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) n-Nitrosodimethylamine	3.43	42	21475	7.02	ng	# 98
6) Naphthalene	10.44	128	164082	7.49	ng	99
7) 2-Methylnaphthalene	12.06	142	106169	7.67	ng	95
10) Acenaphthylene	13.97	152	179601	8.34	ng	100
11) Acenaphthene	14.33	154	103527	6.94	ng	99
12) Fluorene	15.32	166	133058	7.97	ng	98
14) Hexachlorobenzene	16.33	284	43622	7.32	ng	# 43
15) Pentachlorophenol	16.66	266	31837	11.12	ng	# 87
16) Phenanthrene	17.05	178	197860	7.10	ng	99
17) Anthracene	17.13	178	210837	9.03	ng	100
18) Fluoranthene	19.06	202	224822	8.17	ng	100
20) Pyrene	19.44	202	239657	7.94	ng	100
22) Benzo(a)anthracene	21.19	228	209852	7.94	ng	99
23) Chrysene	21.24	228	206991	7.47	ng	# 89
24) Indeno(1,2,3-cd)pyrene	25.56	276	210506	7.34	ng	100
26) Benzo(b)fluoranthene	22.73	252	215922	8.39	ng	98
27) Benzo(k)fluoranthene	22.78	252	184731	7.48	ng	98
28) Benzo(a)pyrene	23.29	252	187841	8.50	ng	97
29) Dibenzo(a,h)anthracene	25.58	278	169184	7.75	ng	97
30) Benzo(g,h,i)perylene	26.23	276	180424	7.66	ng	99

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

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Quant Time: Apr 09 03:44:20 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SIMPAH-BM033115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 09 03:29:56 2015
Response via : Initial Calibration



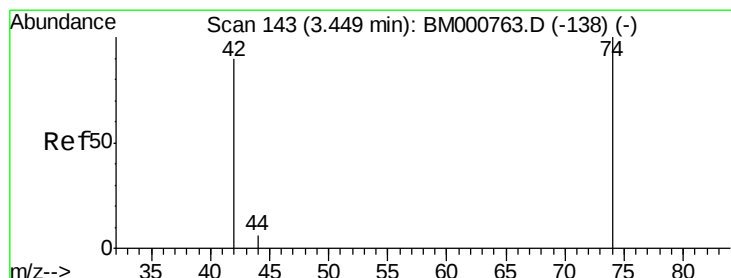
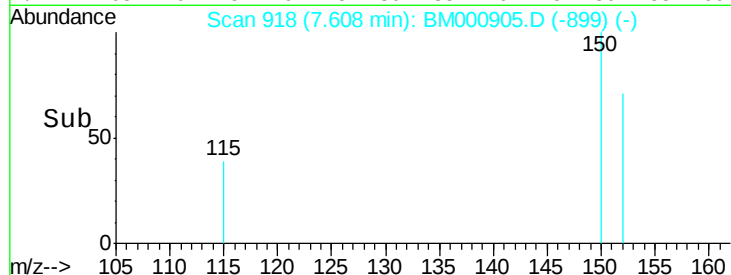
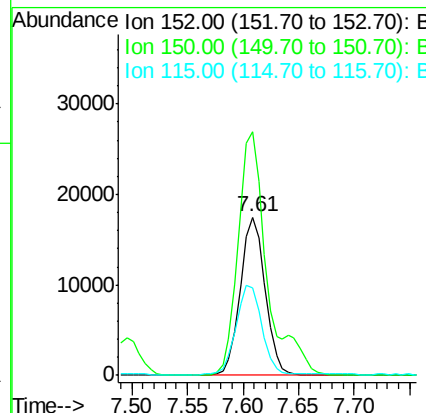
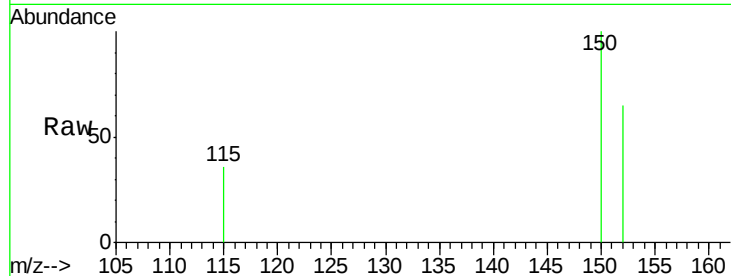


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.61 min Scan# 918
Delta R.T. 0.00 min
Lab File: BM000905.D
Acq: 08 Apr 2015 12:41

Instrument :
BNA_M
ClientSampleId :
PB82494BSD

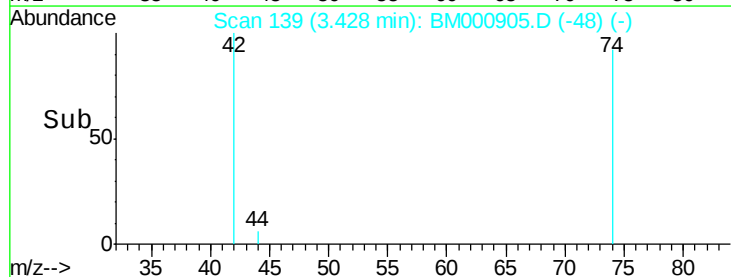
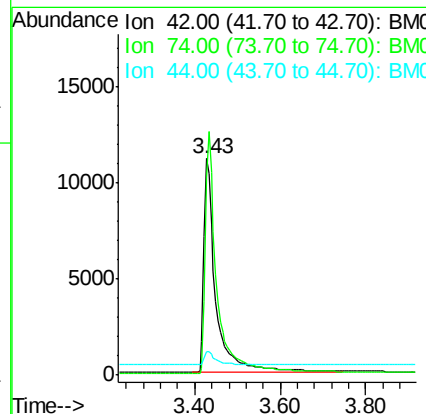
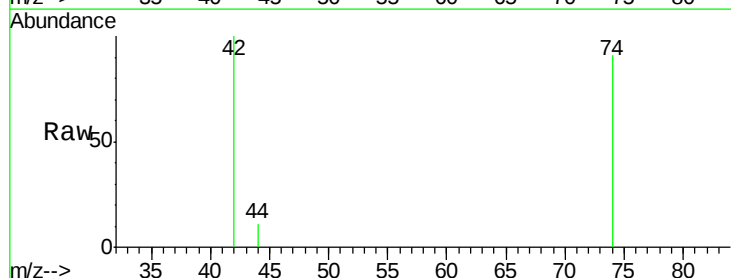
Tgt Ion:152 Resp: 27057
Ion Ratio Lower Upper
152 100
150 154.0 120.8 181.2
115 55.4 42.7 64.1

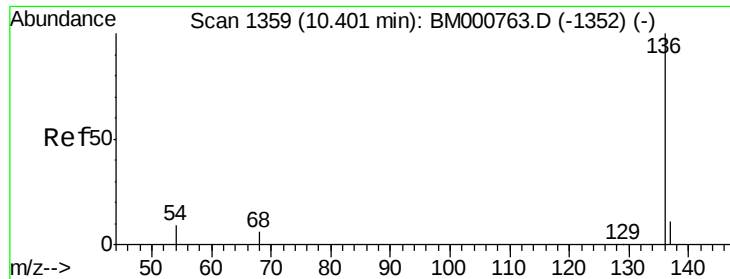


#3

n-Nitrosodimethylamine
Concen: 7.02 ng
RT: 3.43 min Scan# 139
Delta R.T. -0.01 min
Lab File: BM000905.D
Acq: 08 Apr 2015 12:41

Tgt Ion: 42 Resp: 21475
Ion Ratio Lower Upper
42 100
74 114.8 93.6 140.4
44 6.2 6.3 9.5#





#4

Naphthalene-d8

Concen: 5.00 ng

RT: 10.39 min Scan# 1358

Delta R.T. 0.00 min

Lab File: BM000905.D

Acq: 08 Apr 2015 12:41

Instrument :

BNA_M

ClientSampleId :

PB82494BSD

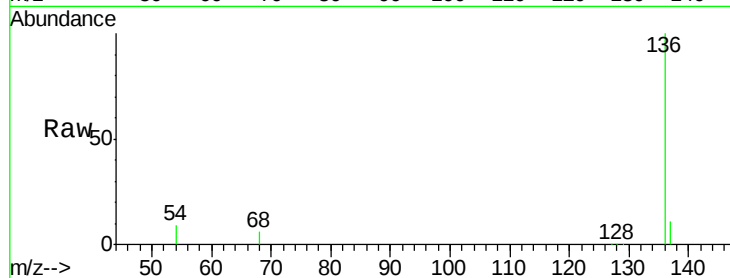
Tgt Ion:136 Resp: 94252

Ion Ratio Lower Upper

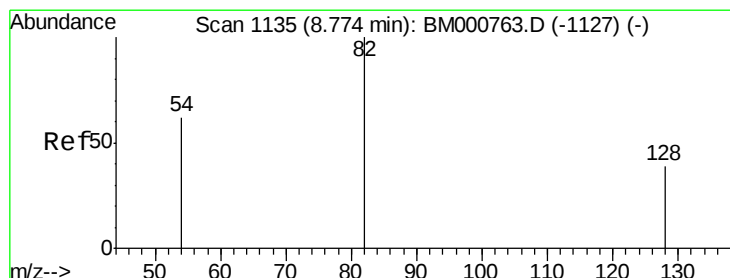
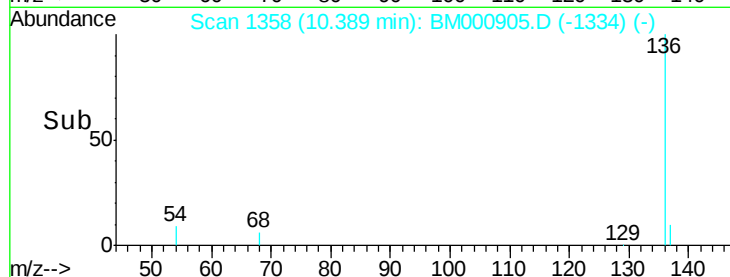
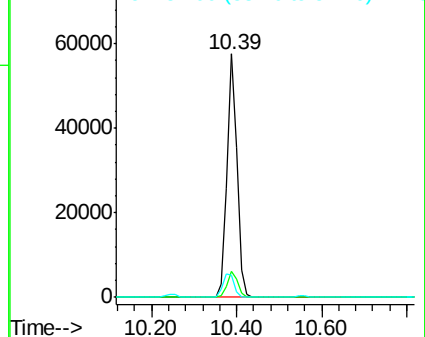
136 100

137 10.5 8.6 12.8

54 9.2 7.0 10.6



Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BM



#5

Nitrobenzene-d5

Concen: 7.94 ng

RT: 8.76 min Scan# 1133

Delta R.T. 0.00 min

Lab File: BM000905.D

Acq: 08 Apr 2015 12:41

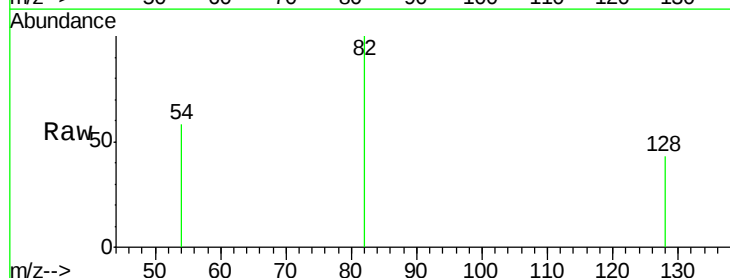
Tgt Ion: 82 Resp: 45949

Ion Ratio Lower Upper

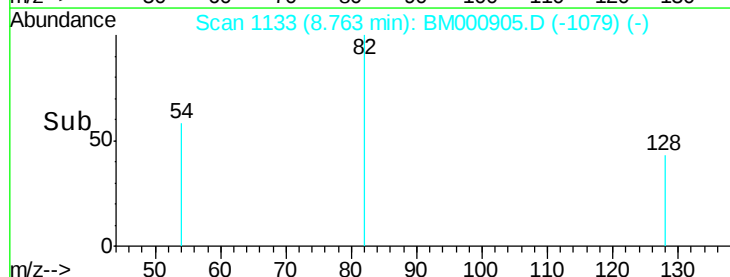
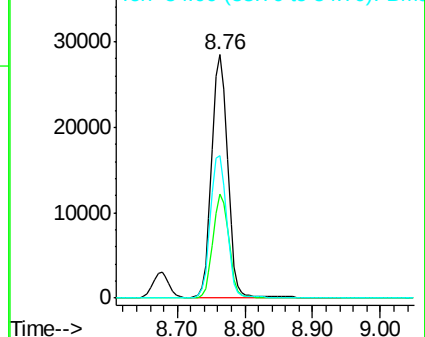
82 100

128 42.7 32.2 48.2

54 58.4 50.2 75.4



Abundance Ion 82.00 (81.70 to 82.70): BM
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BM





#6

Naphthalene

Concen: 7.49 ng

RT: 10.44 min Scan# 1362

Delta R.T. 0.00 min

Lab File: BM000905.D

Acq: 08 Apr 2015 12:41

Instrument :

BNA_M

ClientSampleId :

PB82494BSD

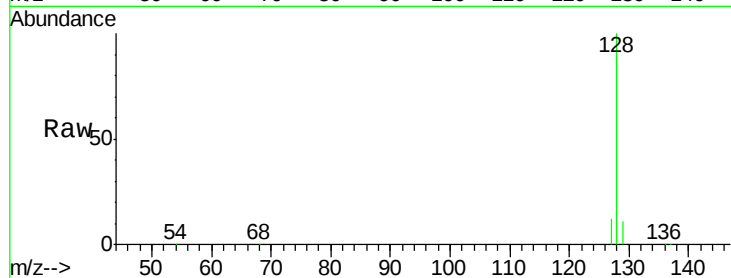
Tgt Ion:128 Resp: 164082

Ion Ratio Lower Upper

128 100

129 10.9 8.9 13.3

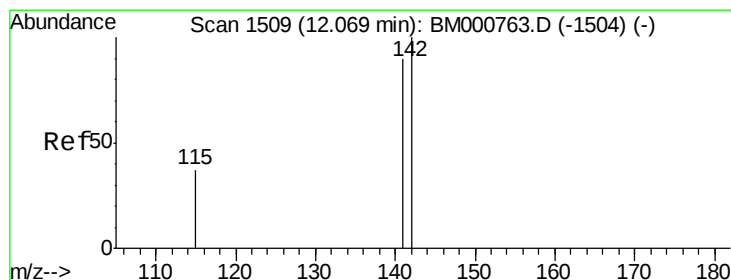
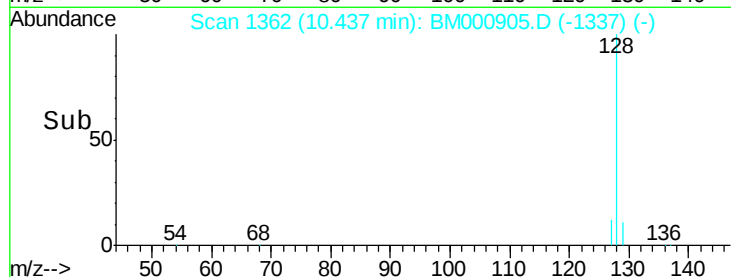
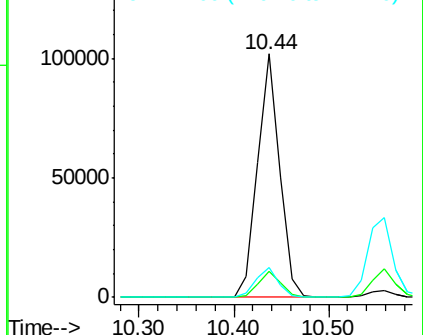
127 12.3 10.0 15.0



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



#7

2-Methylnaphthalene

Concen: 7.67 ng

RT: 12.06 min Scan# 1508

Delta R.T. 0.00 min

Lab File: BM000905.D

Acq: 08 Apr 2015 12:41

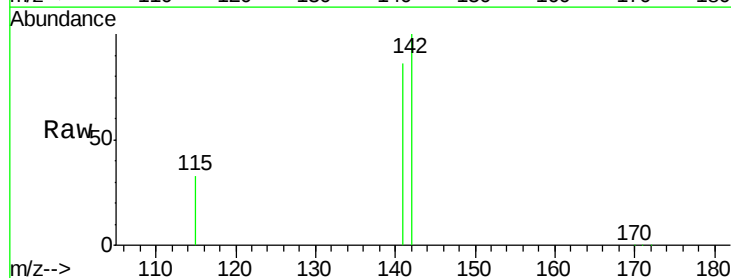
Tgt Ion:142 Resp: 106169

Ion Ratio Lower Upper

142 100

141 85.8 72.3 108.5

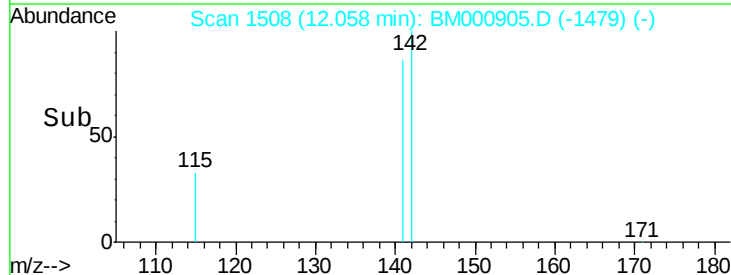
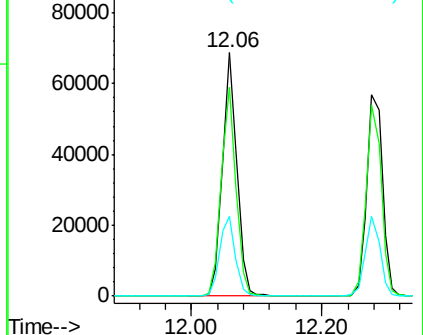
115 32.9 29.5 44.3



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.26 min Scan# 1691

Delta R.T. 0.00 min

Lab File: BM000905.D

Acq: 08 Apr 2015 12:41

Instrument :

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ClientSampleId :

PB82494BSD

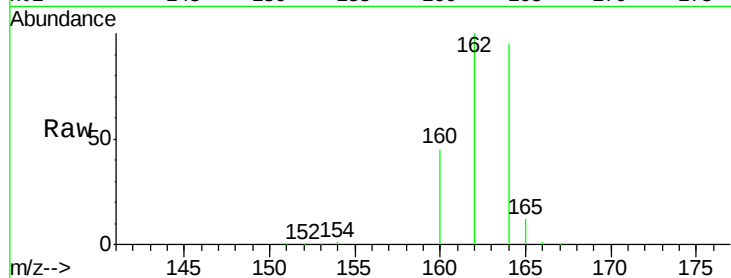
Tgt Ion:164 Resp: 48663

Ion Ratio Lower Upper

164 100

162 105.4 75.4 113.2

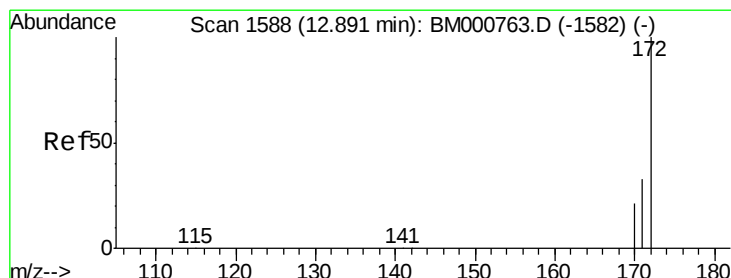
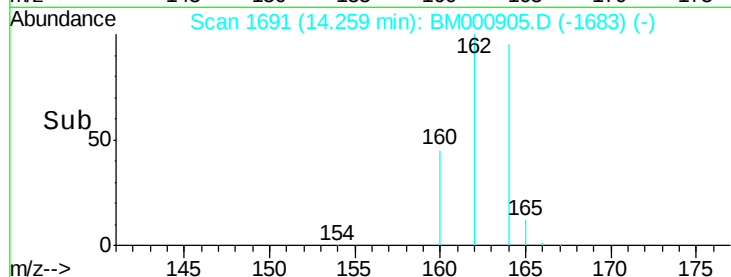
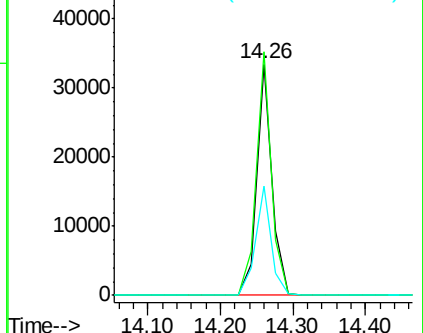
160 47.4 30.8 46.2#



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#9

2-Fluorobiphenyl

Concen: 8.44 ng

RT: 12.88 min Scan# 1587

Delta R.T. 0.00 min

Lab File: BM000905.D

Acq: 08 Apr 2015 12:41

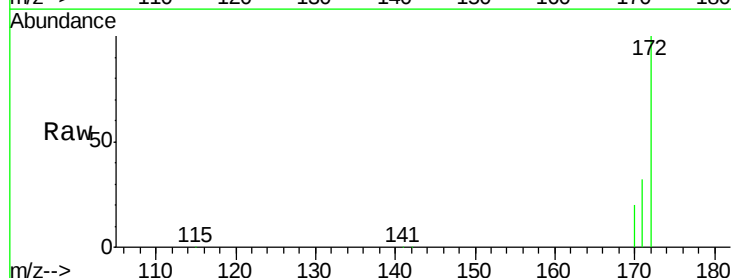
Tgt Ion:172 Resp: 127397

Ion Ratio Lower Upper

172 100

171 32.3 26.6 39.8

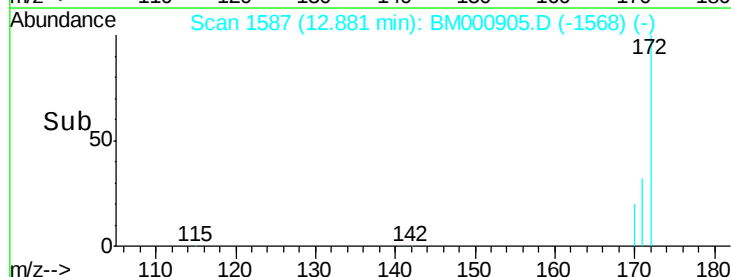
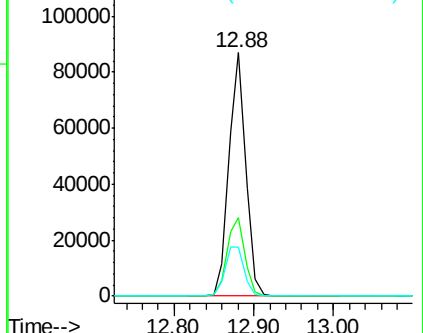
170 20.1 17.1 25.7



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#10

Acenaphthylene

Concen: 8.34 ng

RT: 13.97 min Scan# 1674

Delta R.T. 0.00 min

Lab File: BM000905.D

Acq: 08 Apr 2015 12:41

Instrument :

BNA_M

ClientSampleId :

PB82494BSD

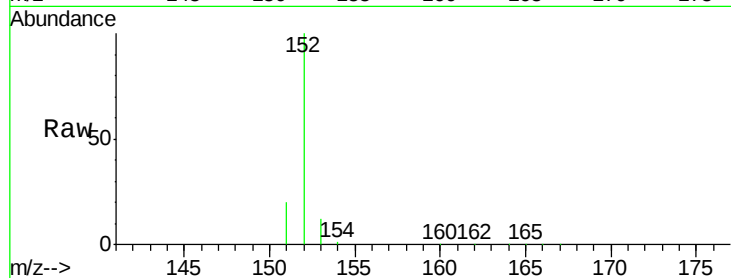
Tgt Ion:152 Resp: 179601

Ion Ratio Lower Upper

152 100

151 19.1 15.1 22.7

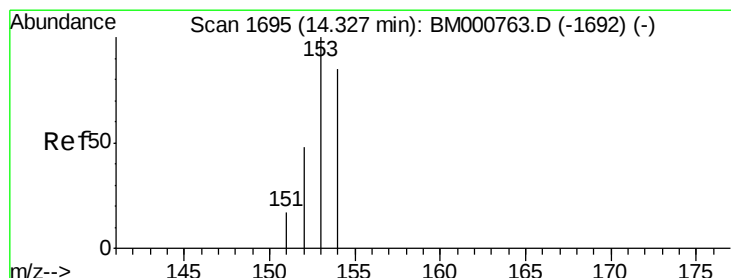
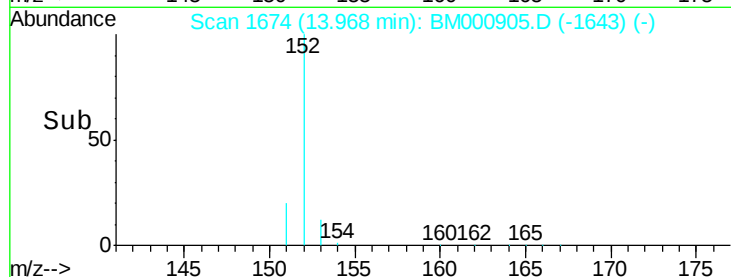
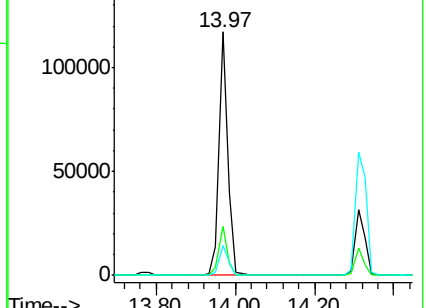
153 12.8 10.2 15.4



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



#11

Acenaphthene

Concen: 6.94 ng

RT: 14.33 min Scan# 1695

Delta R.T. 0.00 min

Lab File: BM000905.D

Acq: 08 Apr 2015 12:41

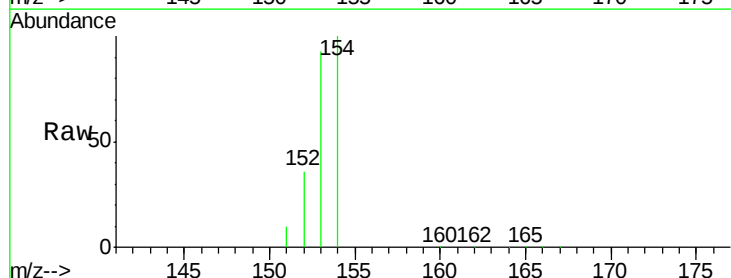
Tgt Ion:154 Resp: 103527

Ion Ratio Lower Upper

154 100

153 109.9 87.3 130.9

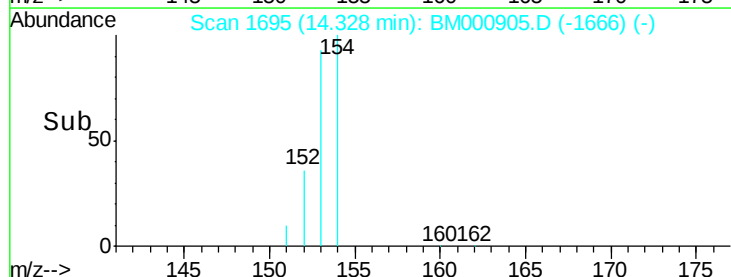
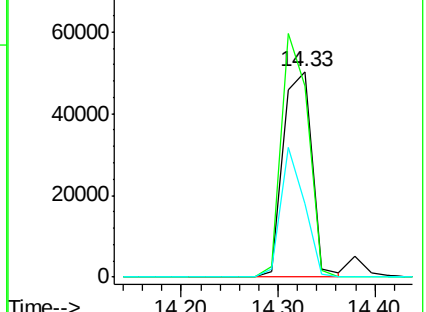
152 52.2 43.0 64.6



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#12

Fluorene

Concen: 7.97 ng

RT: 15.32 min Scan# 1753

Delta R.T. 0.00 min

Lab File: BM000905.D

Acq: 08 Apr 2015 12:41

Instrument :

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ClientSampleId :

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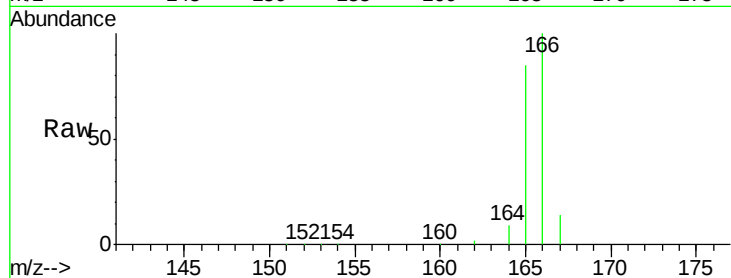
Tgt Ion:166 Resp: 133058

Ion Ratio Lower Upper

166 100

165 95.8 78.2 117.2

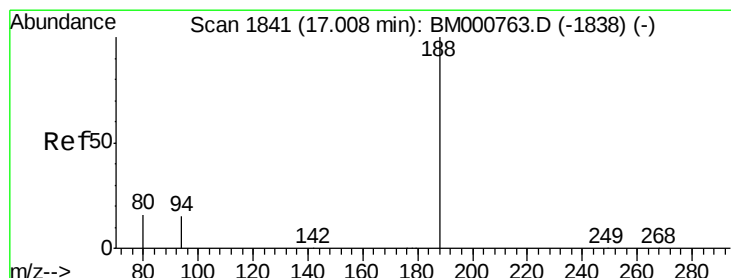
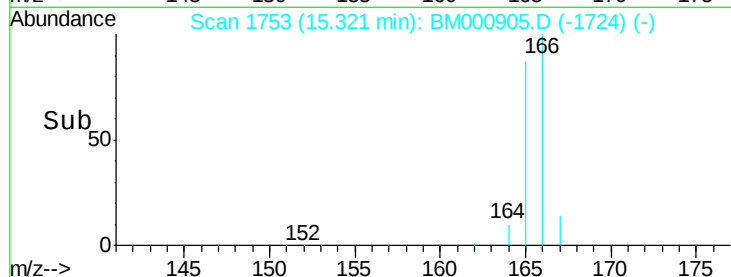
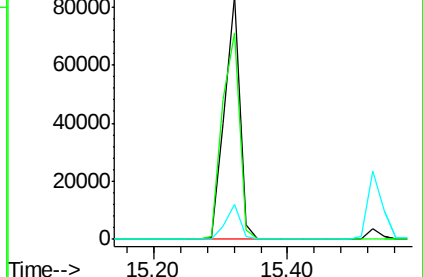
167 13.4 10.7 16.1



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



#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.01 min Scan# 1841

Delta R.T. 0.00 min

Lab File: BM000905.D

Acq: 08 Apr 2015 12:41

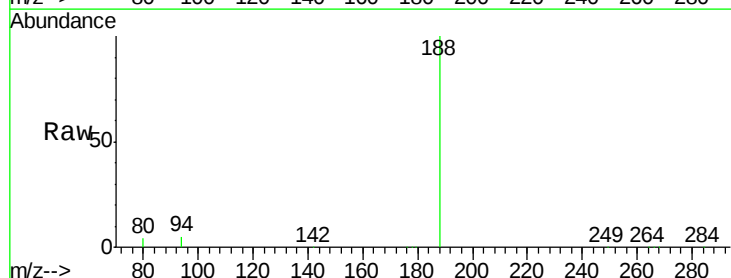
Tgt Ion:188 Resp: 101690

Ion Ratio Lower Upper

188 100

94 4.8 12.0 18.0#

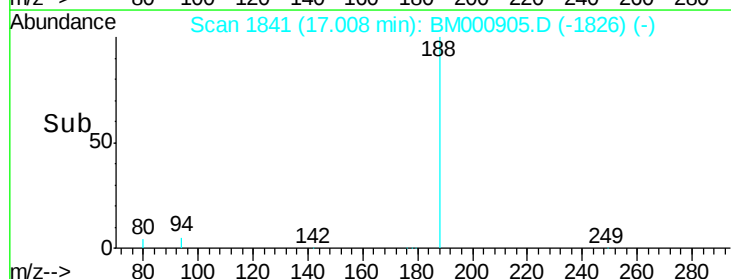
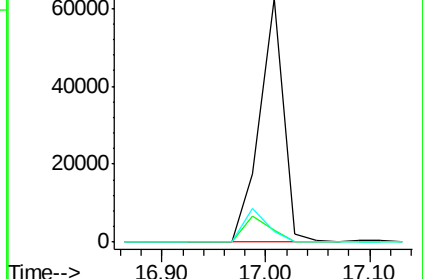
80 4.2 12.8 19.2#

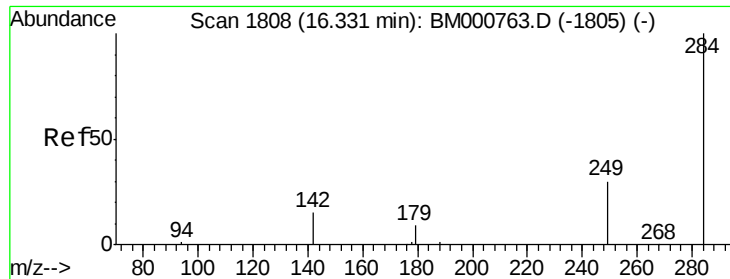


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0

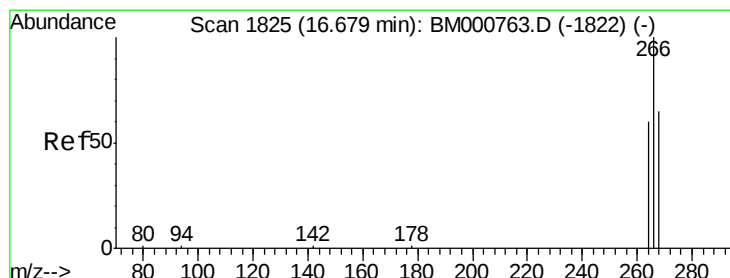
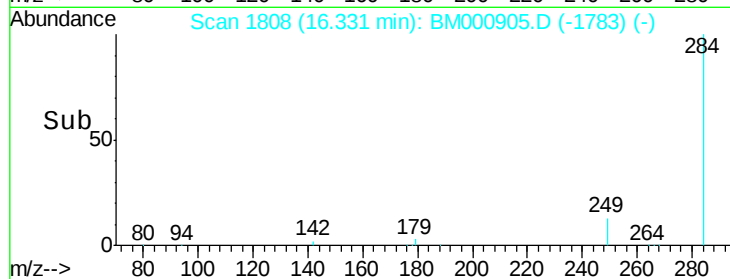
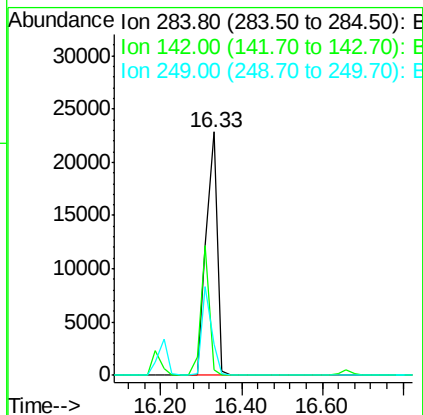
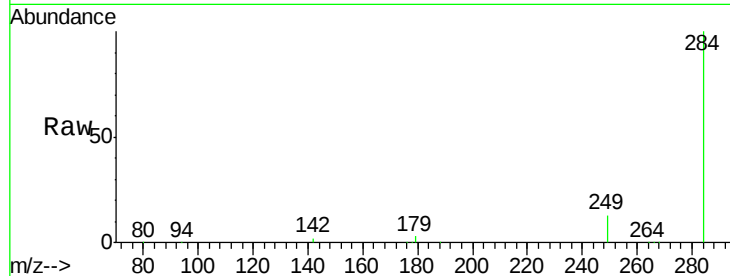




#14
Hexachlorobenzene
Concen: 7.32 ng
RT: 16.33 min Scan# 1808
Delta R.T. 0.00 min
Lab File: BM000905.D
Acq: 08 Apr 2015 12:41

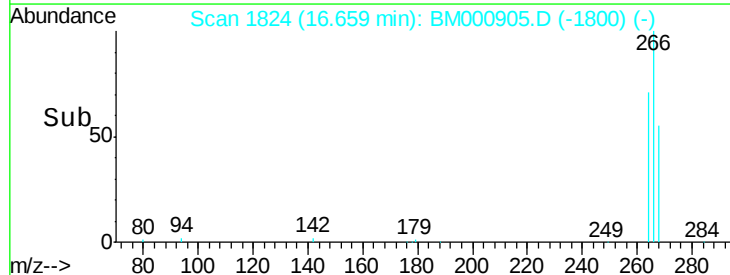
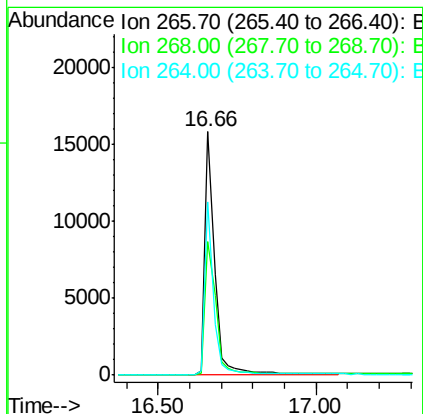
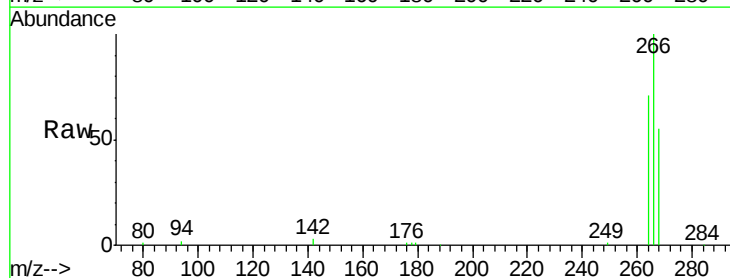
Instrument :
BNA_M
ClientSampleId :
PB82494BSD

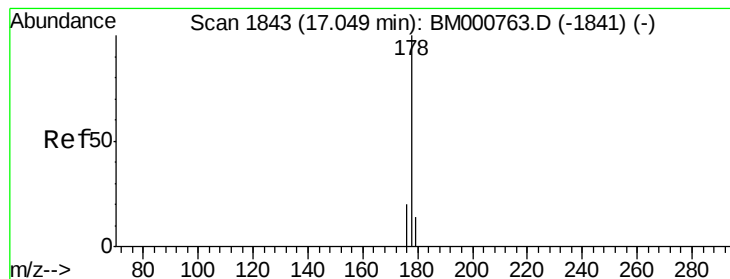
Tgt Ion: 284 Resp: 43622
Ion Ratio Lower Upper
284 100
142 0.0 0.0 0.0
249 0.0 25.2 37.8#



#15
Pentachlorophenol
Concen: 11.12 ng
RT: 16.66 min Scan# 1824
Delta R.T. 0.00 min
Lab File: BM000905.D
Acq: 08 Apr 2015 12:41

Tgt Ion: 266 Resp: 31837
Ion Ratio Lower Upper
266 100
268 54.7 55.0 82.6#
264 70.9 51.0 76.4





#16

Phenanthrene

Concen: 7.10 ng

RT: 17.05 min Scan# 1843

Delta R.T. 0.00 min

Lab File: BM000905.D

Acq: 08 Apr 2015 12:41

Instrument :

BNA_M

ClientSampleId :

PB82494BSD

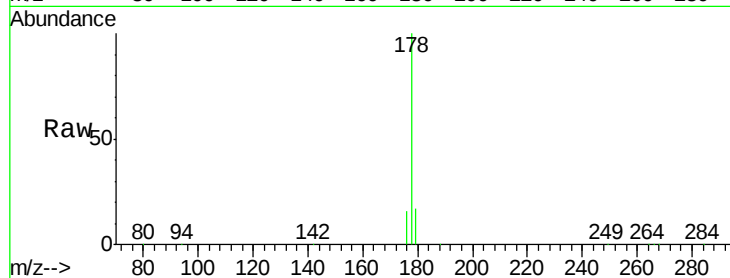
Tgt Ion:178 Resp: 197860

Ion Ratio Lower Upper

178 100

176 18.4 15.3 22.9

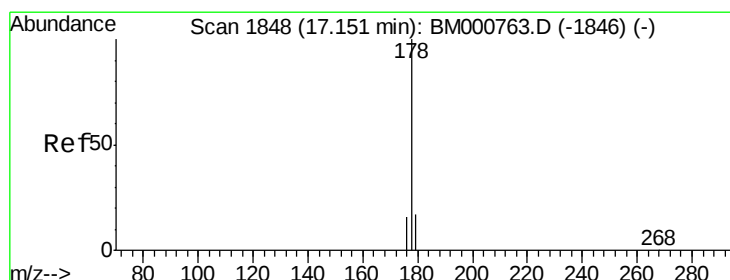
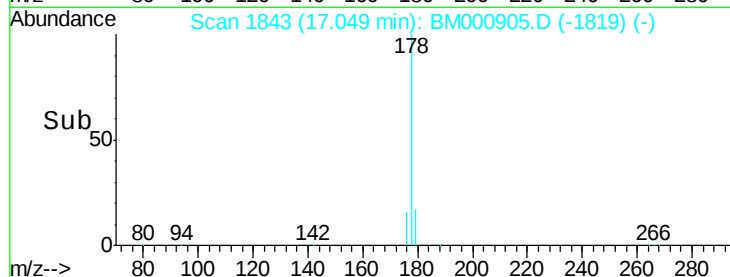
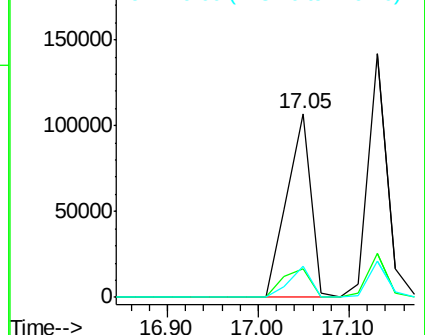
179 15.5 12.2 18.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#17

Anthracene

Concen: 9.03 ng

RT: 17.13 min Scan# 1847

Delta R.T. 0.00 min

Lab File: BM000905.D

Acq: 08 Apr 2015 12:41

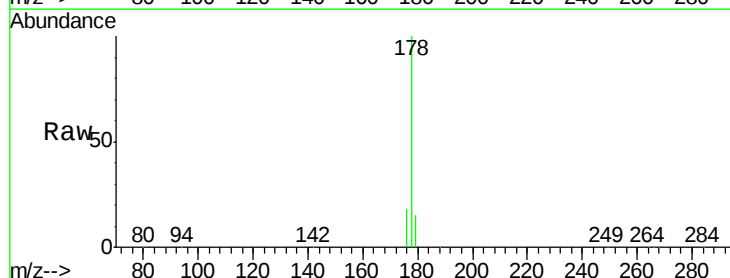
Tgt Ion:178 Resp: 210837

Ion Ratio Lower Upper

178 100

176 18.0 14.6 22.0

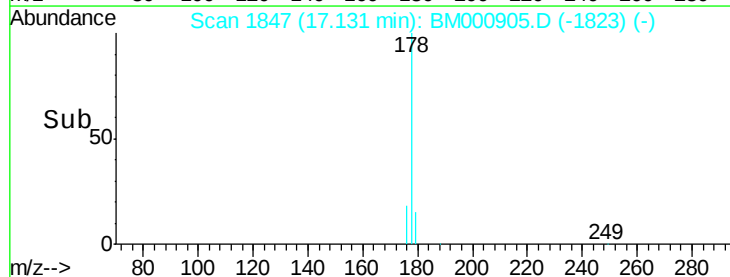
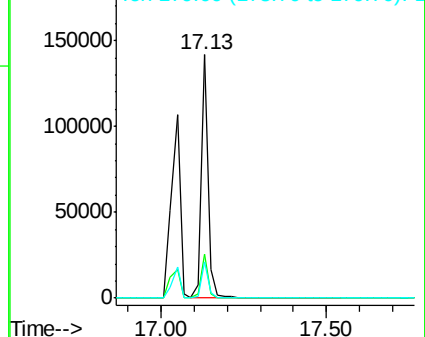
179 15.3 12.2 18.4



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

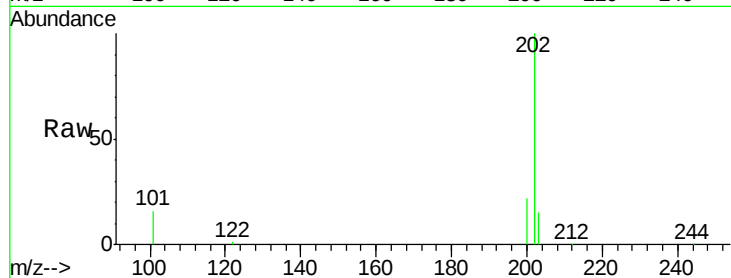




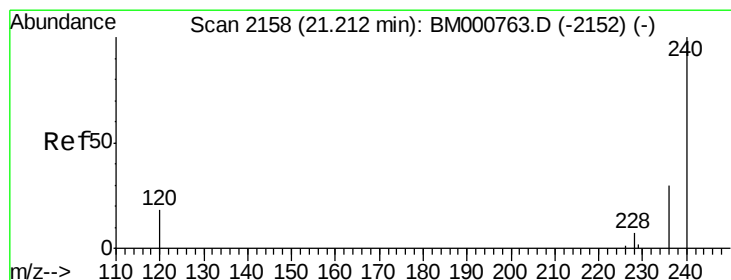
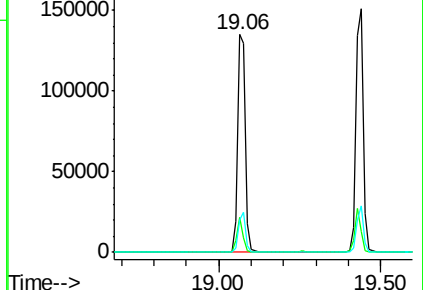
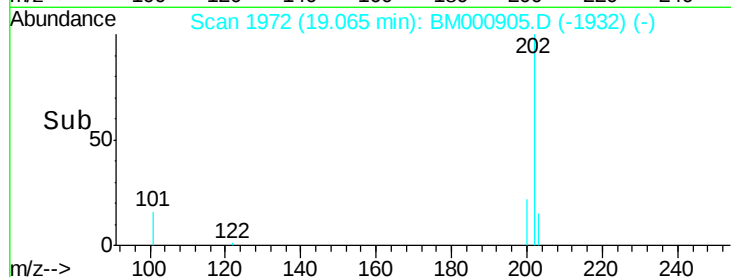
#18
 Fluoranthene
 Concen: 8.17 ng
 RT: 19.06 min Scan# 1972
 Delta R.T. -0.01 min
 Lab File: BM000905.D
 Acq: 08 Apr 2015 12:41

Instrument :
 BNA_M
 ClientSampleId :
 PB82494BSD

Tgt Ion: 202 Resp: 224822
 Ion Ratio Lower Upper
 202 100
 101 12.8 10.5 15.7
 203 17.3 13.8 20.8

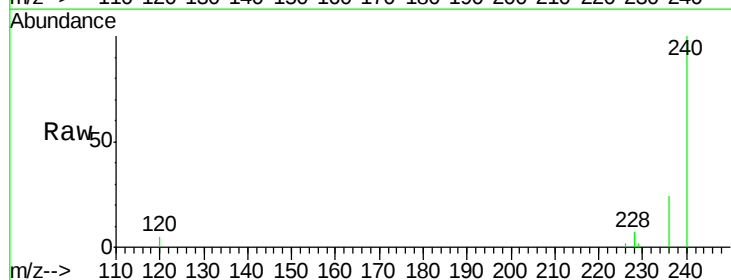


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

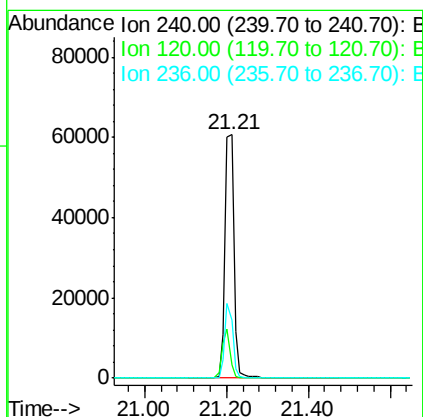
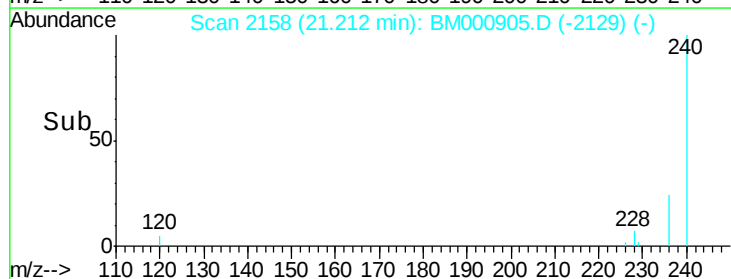


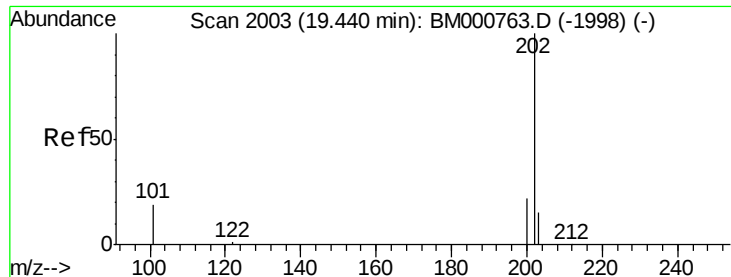
#19
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.21 min Scan# 2158
 Delta R.T. 0.00 min
 Lab File: BM000905.D
 Acq: 08 Apr 2015 12:41

Tgt Ion: 240 Resp: 92509
 Ion Ratio Lower Upper
 240 100
 120 5.5 14.9 22.3#
 236 23.6 24.2 36.4#



Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E

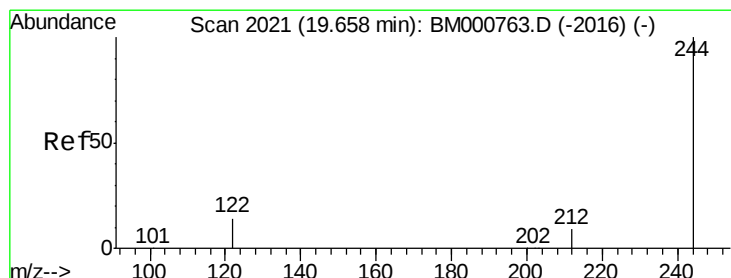
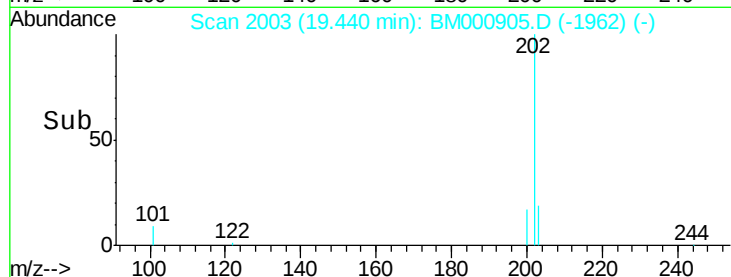
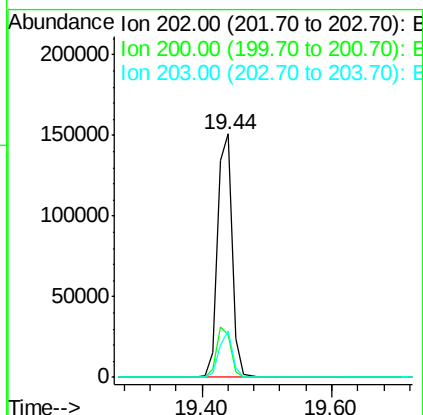
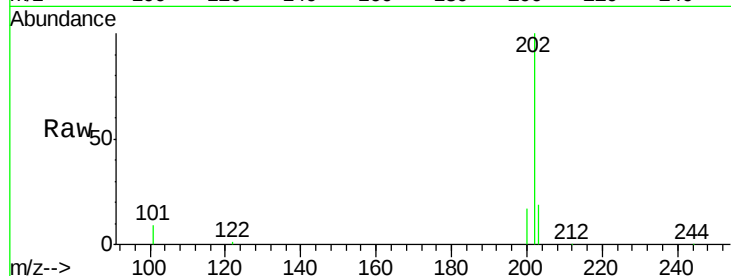




#20
 Pyrene
 Concen: 7.94 ng
 RT: 19.44 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: BM000905.D
 Acq: 08 Apr 2015 12:41

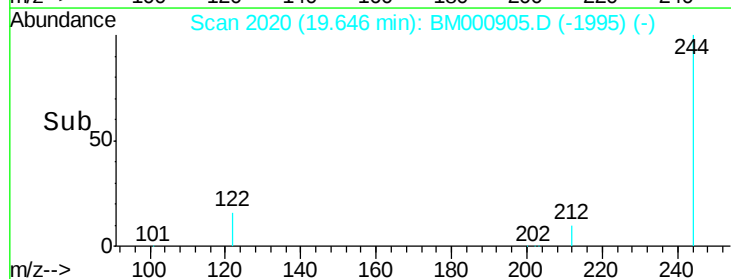
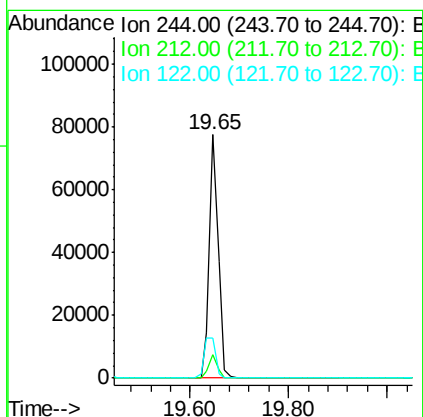
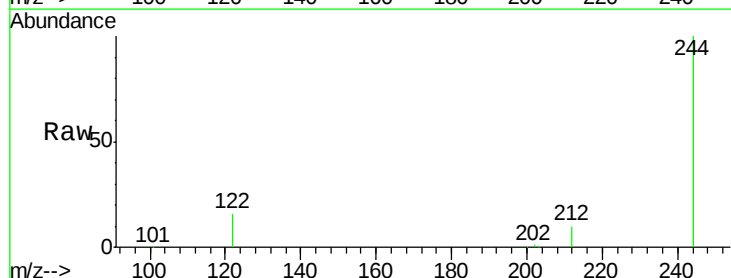
Instrument :
 BNA_M
 ClientSampleId :
 PB82494BSD

Tgt Ion: 202 Resp: 239657
 Ion Ratio Lower Upper
 202 100
 200 20.2 16.2 24.2
 203 17.8 13.9 20.9



#21
 Terphenyl-d14
 Concen: 8.73 ng
 RT: 19.65 min Scan# 2020
 Delta R.T. 0.00 min
 Lab File: BM000905.D
 Acq: 08 Apr 2015 12:41

Tgt Ion: 244 Resp: 97129
 Ion Ratio Lower Upper
 244 100
 212 9.7 7.8 11.6
 122 16.4 11.8 17.8





#22

Benzo(a)anthracene

Concen: 7.94 ng

RT: 21.19 min Scan# 2156

Delta R.T. 0.00 min

Lab File: BM000905.D

Acq: 08 Apr 2015 12:41

Instrument :

BNA_M

ClientSampleId :

PB82494BSD

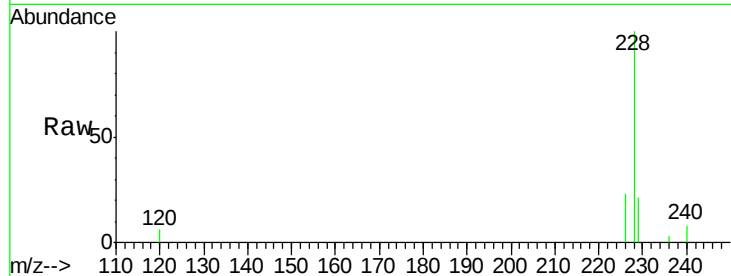
Tgt Ion:228 Resp: 209852

Ion Ratio Lower Upper

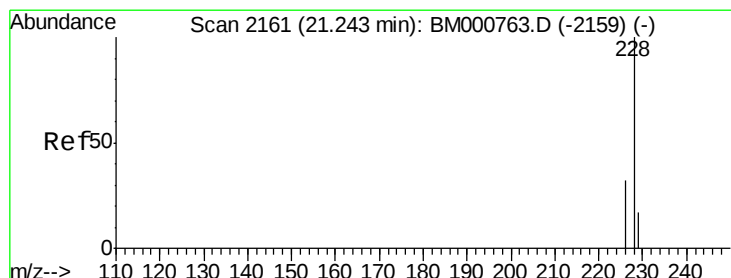
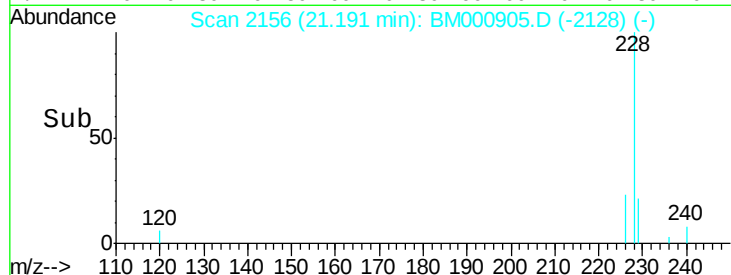
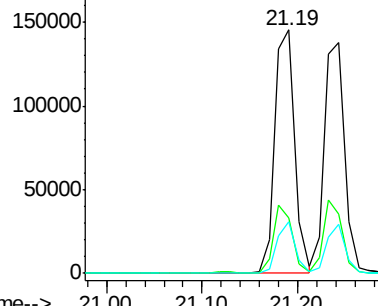
228 100

226 22.6 18.6 27.8

229 21.2 17.2 25.8



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



#23

Chrysene

Concen: 7.47 ng

RT: 21.24 min Scan# 2161

Delta R.T. 0.00 min

Lab File: BM000905.D

Acq: 08 Apr 2015 12:41

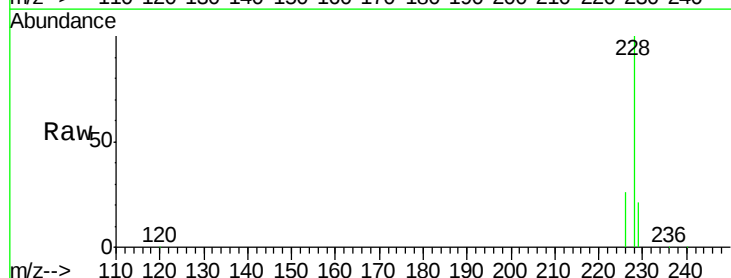
Tgt Ion:228 Resp: 206991

Ion Ratio Lower Upper

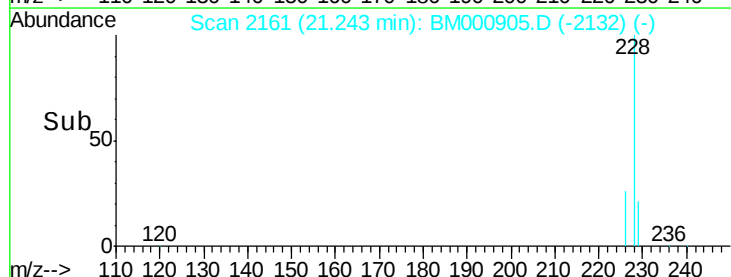
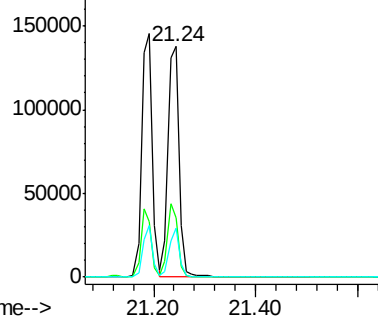
228 100

226 25.8 25.8 38.8#

229 21.2 13.8 20.6#



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





#24

Indeno(1,2,3-cd)pyrene

Concen: 7.34 ng

RT: 25.56 min Scan# 2575

Delta R.T. -0.01 min

Lab File: BM000905.D

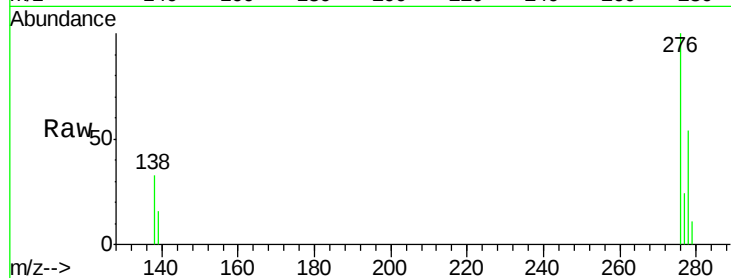
Acq: 08 Apr 2015 12:41

Instrument :

BNA_M

ClientSampleId :

PB82494BSD



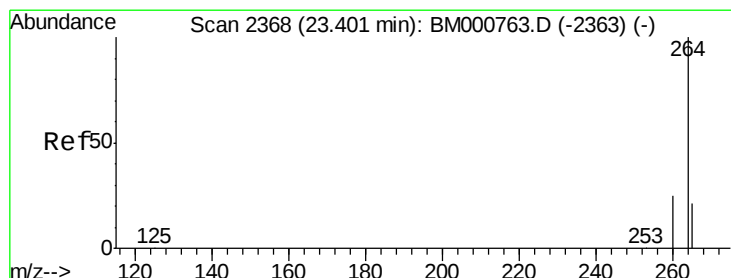
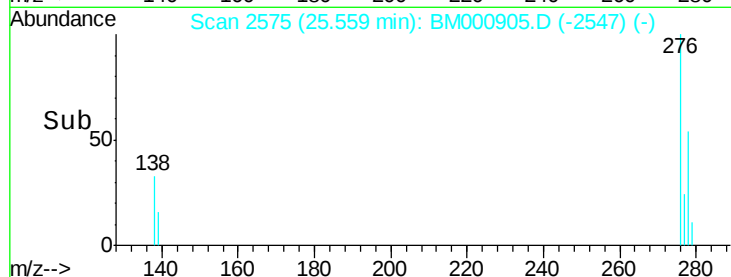
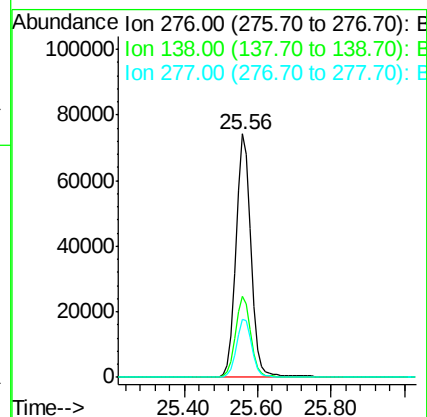
Tgt Ion: 276 Resp: 210506

Ion Ratio Lower Upper

276 100

138 33.9 27.4 41.2

277 24.5 19.7 29.5



#25

Perylene-d12

Concen: 5.00 ng

RT: 23.38 min Scan# 2366

Delta R.T. -0.01 min

Lab File: BM000905.D

Acq: 08 Apr 2015 12:41

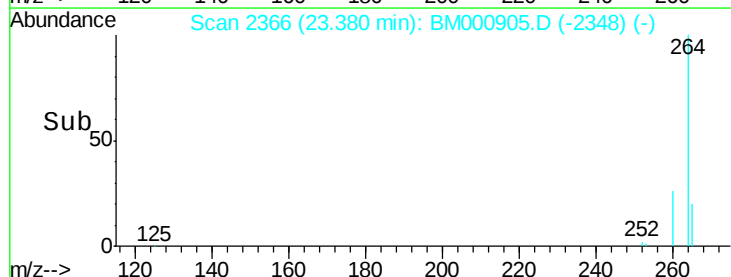
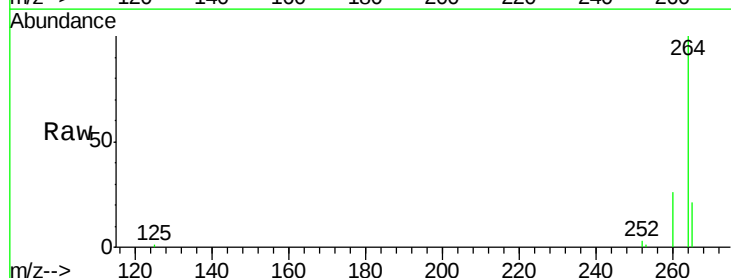
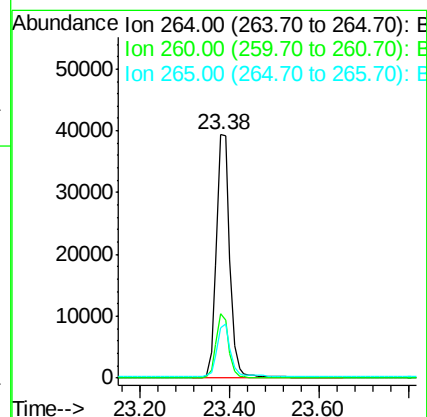
Tgt Ion: 264 Resp: 81724

Ion Ratio Lower Upper

264 100

260 26.4 20.1 30.1

265 20.5 17.4 26.0

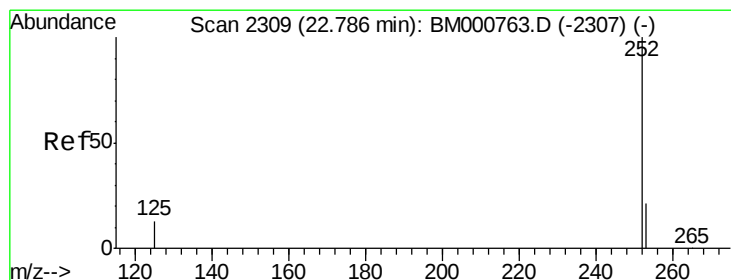
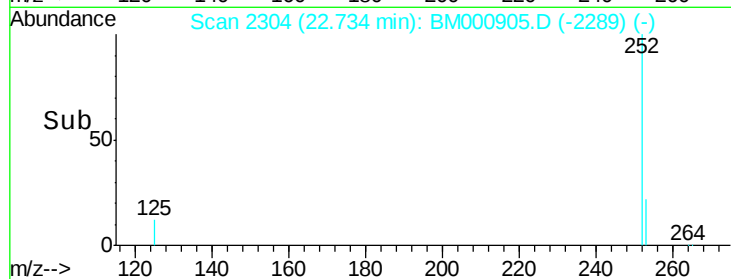
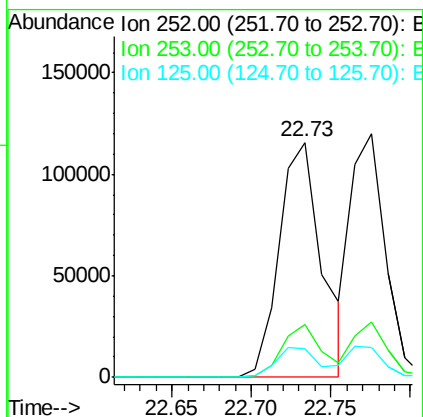
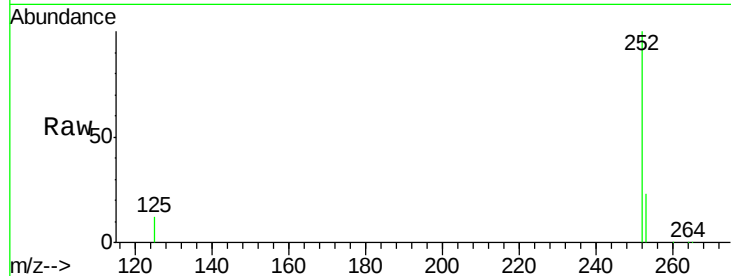




#26
Benzo(b)fluoranthene
Concen: 8.39 ng
RT: 22.73 min Scan# 2304
Delta R.T. 0.00 min
Lab File: BM000905.D
Acq: 08 Apr 2015 12:41

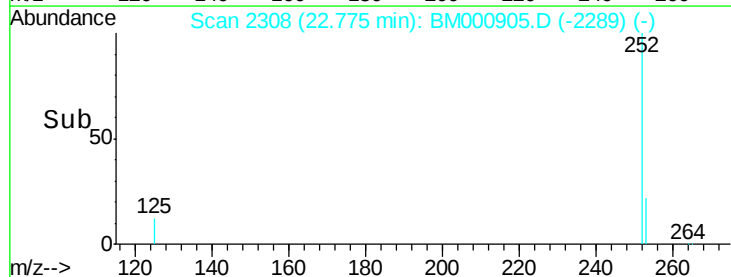
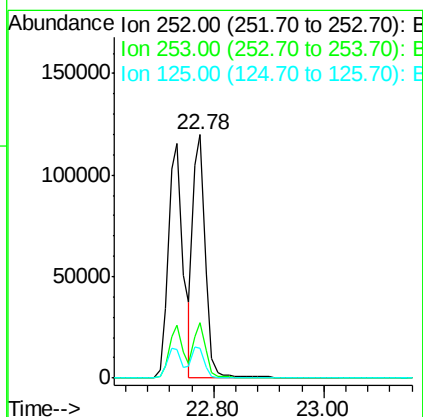
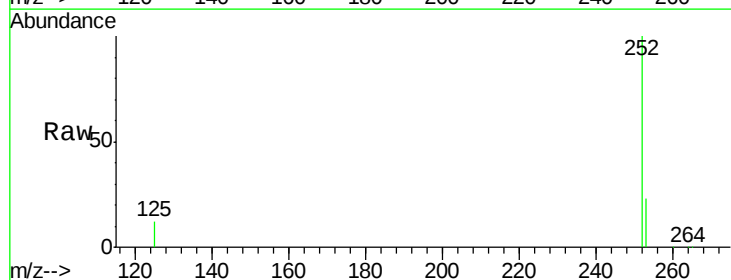
Instrument :
BNA_M
ClientSampleId :
PB82494BSD

Tgt Ion:252 Resp: 215922
Ion Ratio Lower Upper
252 100
253 22.6 18.5 27.7
125 12.2 10.6 16.0



#27
Benzo(k)fluoranthene
Concen: 7.48 ng
RT: 22.78 min Scan# 2308
Delta R.T. 0.00 min
Lab File: BM000905.D
Acq: 08 Apr 2015 12:41

Tgt Ion:252 Resp: 184731
Ion Ratio Lower Upper
252 100
253 22.6 17.9 26.9
125 12.2 10.8 16.2





#28

Benzo(a)pyrene

Concen: 8.50 ng

RT: 23.29 min Scan# 2357

Delta R.T. 0.00 min

Lab File: BM000905.D

Acq: 08 Apr 2015 12:41

Instrument :

BNA_M

ClientSampleId :

PB82494BSD

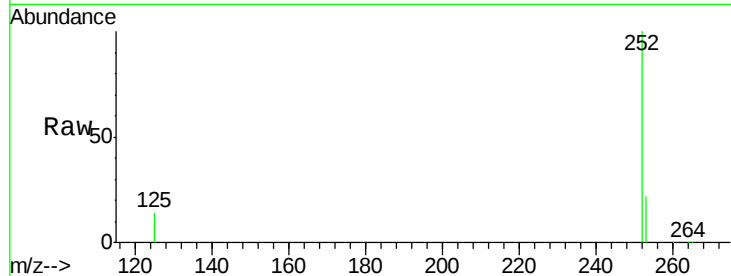
Tgt Ion:252 Resp: 187841

Ion Ratio Lower Upper

252 100

253 21.7 19.4 29.2

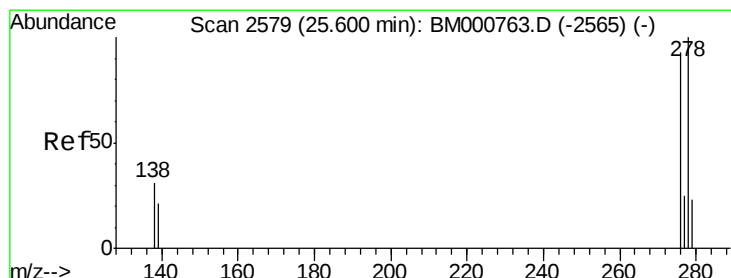
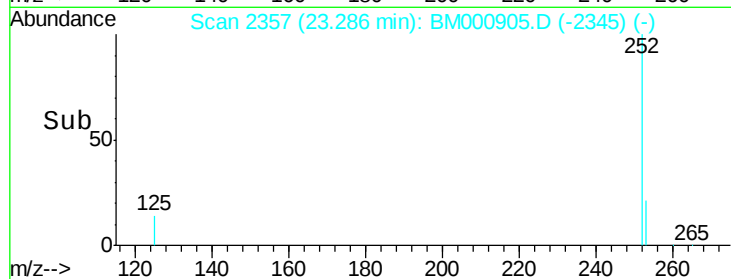
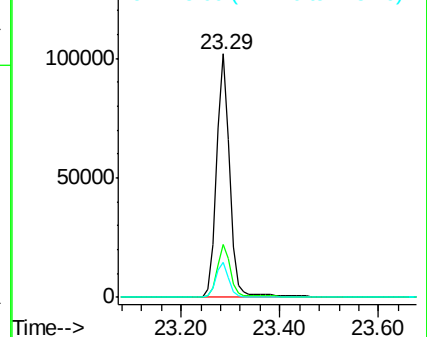
125 14.2 11.5 17.3



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



#29

Dibenzo(a,h)anthracene

Concen: 7.75 ng

RT: 25.58 min Scan# 2577

Delta R.T. 0.00 min

Lab File: BM000905.D

Acq: 08 Apr 2015 12:41

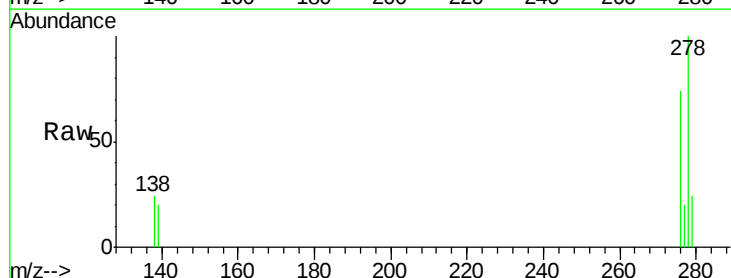
Tgt Ion:278 Resp: 169184

Ion Ratio Lower Upper

278 100

139 19.7 17.8 26.6

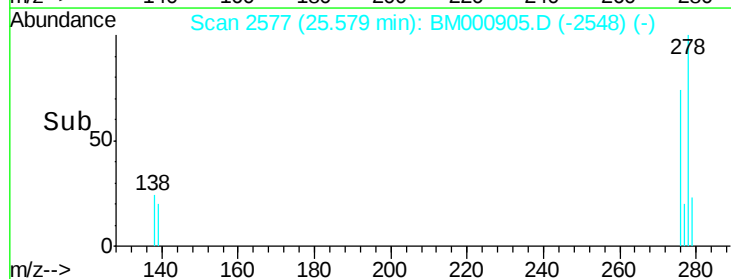
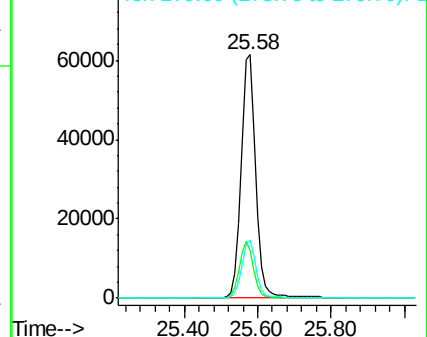
279 23.6 19.3 28.9



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





#30

Benzo(g,h,i)perylene

Concen: 7.66 ng

RT: 26.23 min Scan# 2639

Delta R.T. 0.00 min

Lab File: BM000905.D

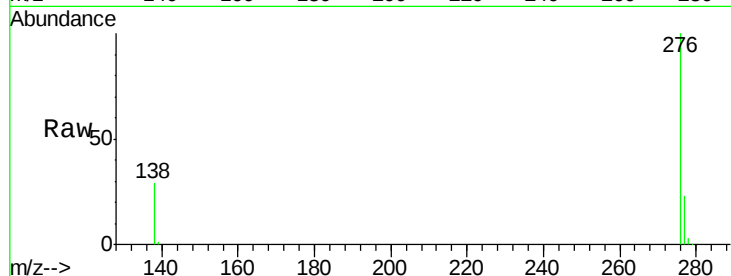
Acq: 08 Apr 2015 12:41

Instrument :

BNA_M

ClientSampleId :

PB82494BSD



Tgt Ion: 276 Resp: 180424

Ion Ratio Lower Upper

276 100

277 22.9 19.1 28.7

138 28.9 23.1 34.7

