

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM041715\
 Data File : BM001024.D
 Acq On : 16 Apr 2015 19:32
 Operator : TP/IZ
 Sample : SST0.429
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SST0.429

Quant Time: Apr 20 08:48:16 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SIMPAH-BM041815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 20 05:07:15 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.59	152	1373	5.00	ng	0.00
4) Naphthalene-d8	10.37	136	4895	5.00	ng	0.00
8) Acenaphthene-d10	14.24	164	3053	5.00	ng	0.00
13) Phenanthrene-d10	16.99	188	4792	5.00	ng	0.00
19) Chrysene-d12	21.20	240	3922	5.00	ng	0.00
25) Perylene-d12	23.36	264	3610	5.00	ng	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	0.00	82	0	0.00	ng	
9) 2-Fluorobiphenyl	0.00	172	0	0.00	ng	
21) Terphenyl-d14	0.00	244	0	0.00	ng	

Target Compounds

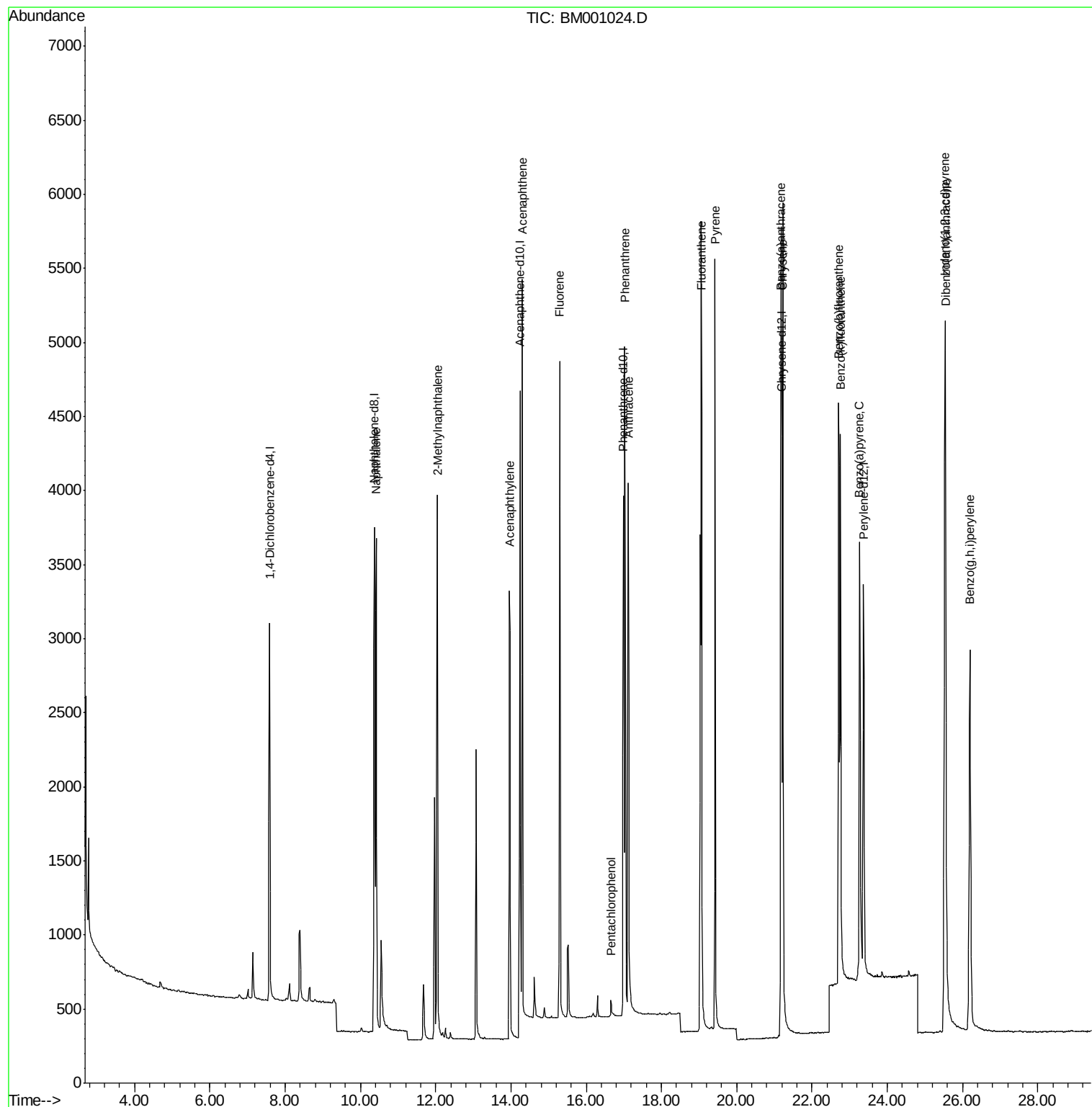
						Qvalue
6) Naphthalene	10.42	128	5018	4.27	ng	97
7) 2-Methylnaphthalene	12.04	142	3206	4.15	ng	99
10) Acenaphthylene	13.96	152	4115	2.47	ng	99
11) Acenaphthene	14.30	154	3990	4.16	ng	# 75
12) Fluorene	15.29	166	3643	3.27	ng	100
15) Pentachlorophenol	16.65	266	123	1.43	ng	# 77
16) Phenanthrene	17.02	178	5526	4.30	ng	99
17) Anthracene	17.12	178	5094	4.56	ng	99
18) Fluoranthene	19.05	202	5904	4.67	ng	99
20) Pyrene	19.43	202	6166	4.73	ng	98
22) Benzo(a)anthracene	21.18	228	4644	3.76	ng	98
23) Chrysene	21.23	228	5644	5.09	ng	97
24) Indeno(1,2,3-cd)pyrene	25.53	276	6017	4.99	ng	99
26) Benzo(b)fluoranthene	22.71	252	5028	4.03	ng	95
27) Benzo(k)fluoranthene	22.75	252	5595	5.11	ng	# 94
28) Benzo(a)pyrene	23.26	252	4977	4.77	ng	# 92
29) Dibenzo(a,h)anthracene	25.54	278	4977	5.06	ng	95
30) Benzo(g,h,i)perylene	26.19	276	5366	5.35	ng	96

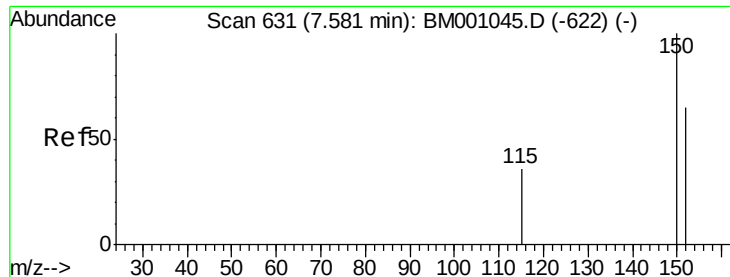
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.59 min Scan# 318

Delta R.T. 0.01 min

Lab File: BM001024.D

Acq: 16 Apr 2015 19:32

Instrument :

BNA_M

ClientSampleId :

SSTD0.429

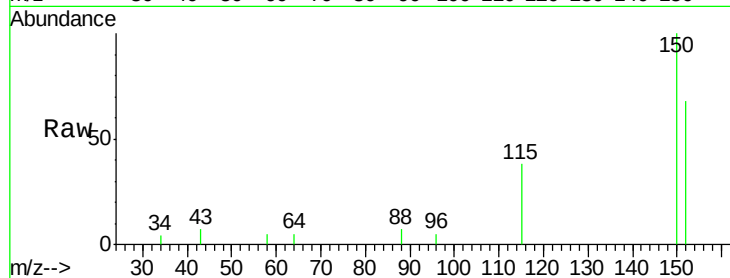
Tgt Ion:152 Resp: 1373

Ion Ratio Lower Upper

152 100

150 147.7 123.3 184.9

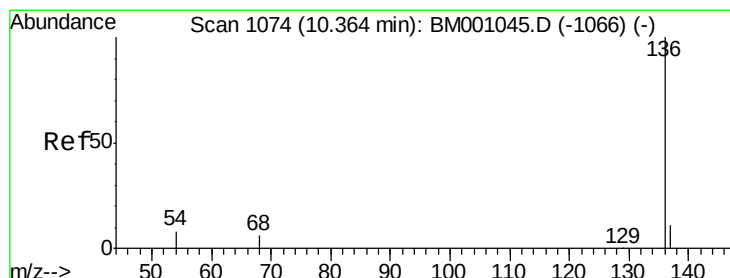
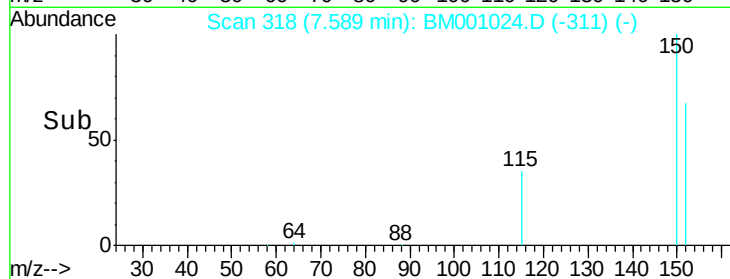
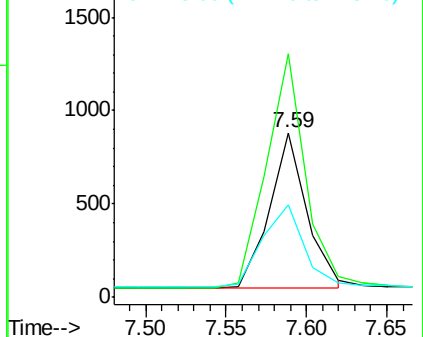
115 55.8 45.0 67.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 10.37 min Scan# 516

Delta R.T. 0.01 min

Lab File: BM001024.D

Acq: 16 Apr 2015 19:32

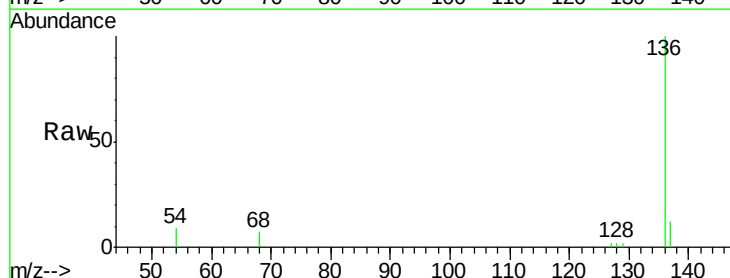
Tgt Ion:136 Resp: 4895

Ion Ratio Lower Upper

136 100

137 12.4 8.6 13.0

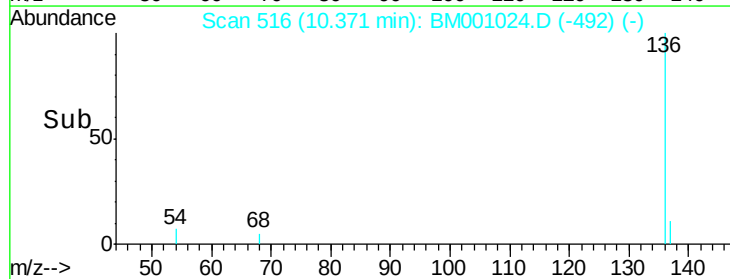
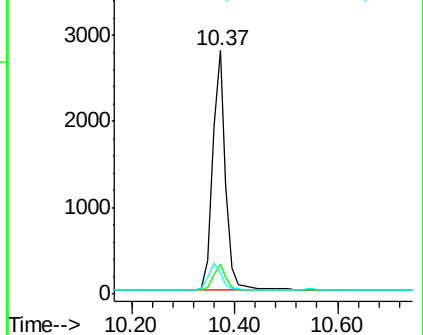
54 8.7 6.5 9.7

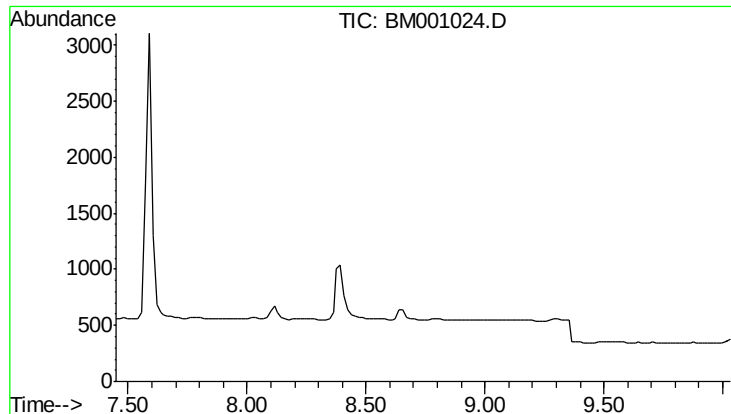


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BM





#5

Nitrobenzene-d5

Concen: 0.00 ng

Expected RT: 8.74 min

Lab File: BM001024.D

Acq: 16 Apr 2015 19:32

Tgt Ion: 82

Sig Exp Ratio

82 100

128 39.9

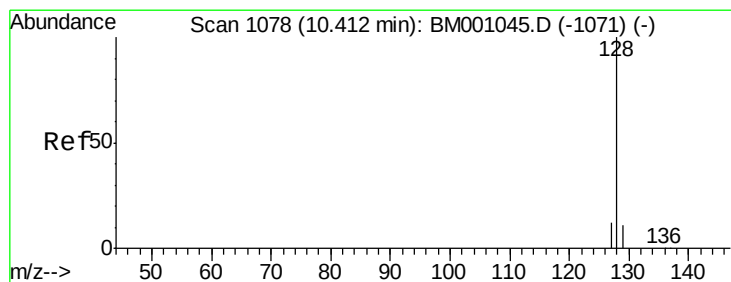
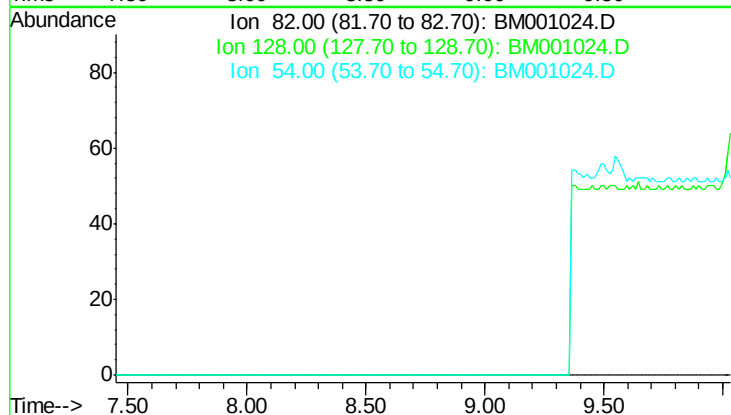
54 64.1

Instrument :

BNA_M

ClientSampleId :

SSTD0.429



#6

Naphthalene

Concen: 4.27 ng

RT: 10.42 min Scan# 520

Delta R.T. 0.01 min

Lab File: BM001024.D

Acq: 16 Apr 2015 19:32

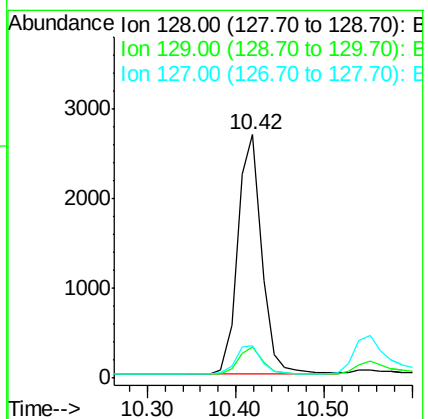
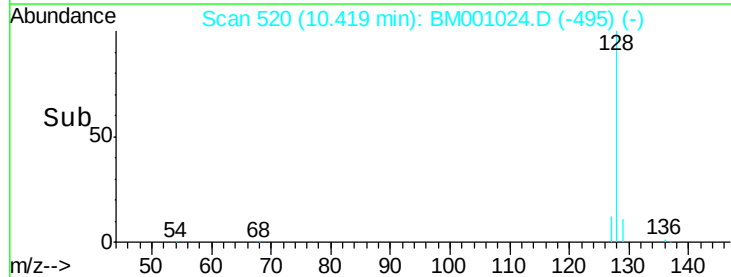
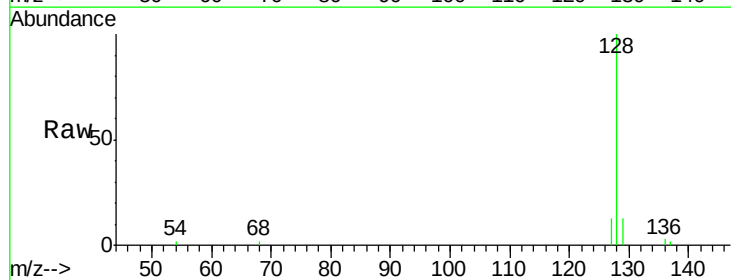
Tgt Ion: 128 Resp: 5018

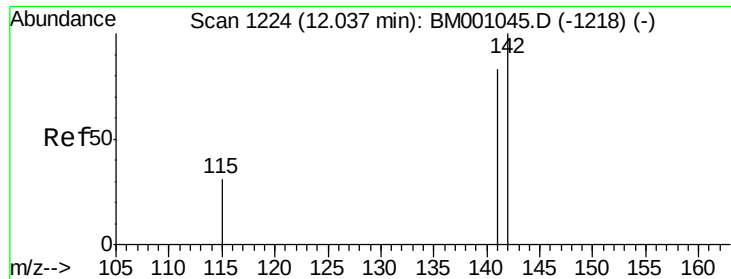
Ion Ratio Lower Upper

128 100

129 12.9 9.3 13.9

127 13.4 10.0 15.0





#7

2-Methylnaphthalene

Concen: 4.15 ng

RT: 12.04 min Scan# 665

Delta R.T. 0.01 min

Lab File: BM001024.D

Acq: 16 Apr 2015 19:32

Instrument :

BNA_M

ClientSampleId :

SSTD0.429

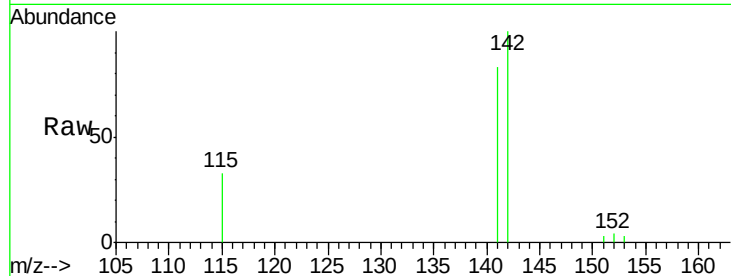
Tgt Ion:142 Resp: 3206

Ion Ratio Lower Upper

142 100

141 82.9 66.7 100.1

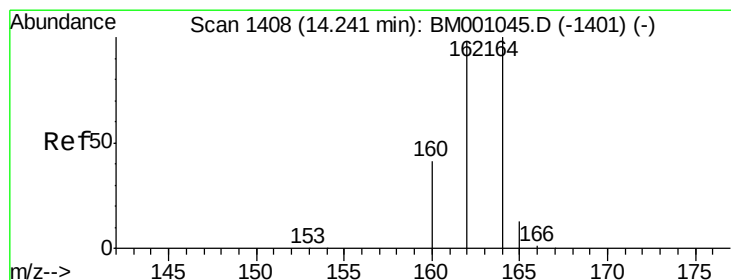
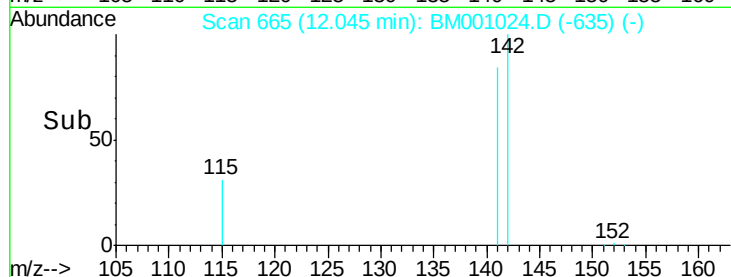
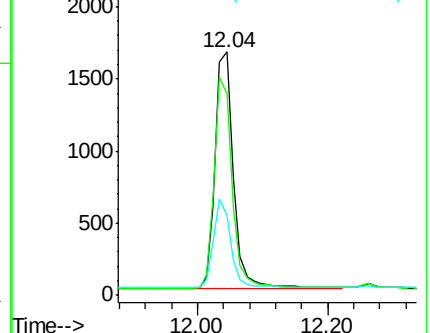
115 32.6 25.5 38.3



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: 14.24 min Scan# 875

Delta R.T. -0.00 min

Lab File: BM001024.D

Acq: 16 Apr 2015 19:32

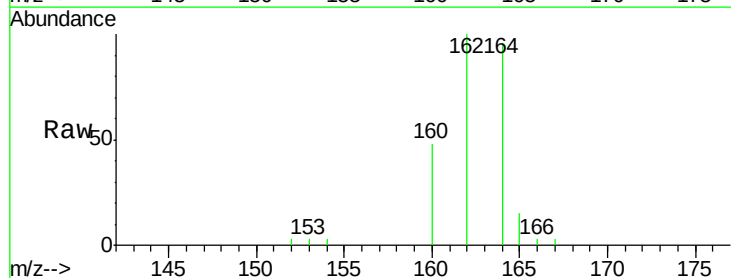
Tgt Ion:164 Resp: 3053

Ion Ratio Lower Upper

164 100

162 103.8 78.5 117.7

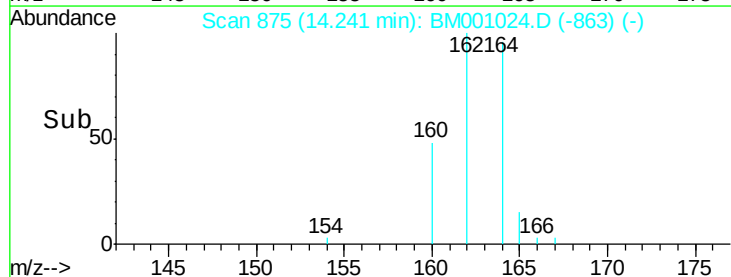
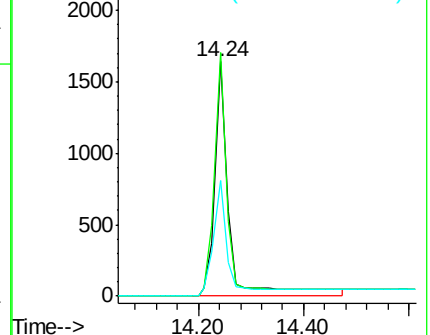
160 49.4 32.9 49.3#

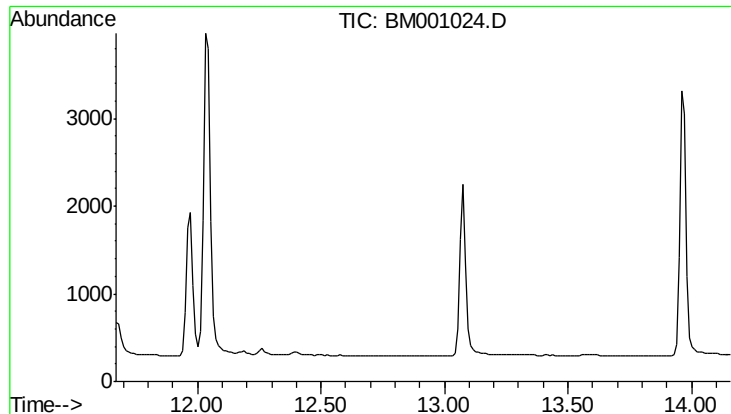


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 0.00 ng

Expected RT: 12.86 min

Lab File: BM001024.D

Acq: 16 Apr 2015 19:32

Instrument :

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ClientSampleId :

SSTD0.429

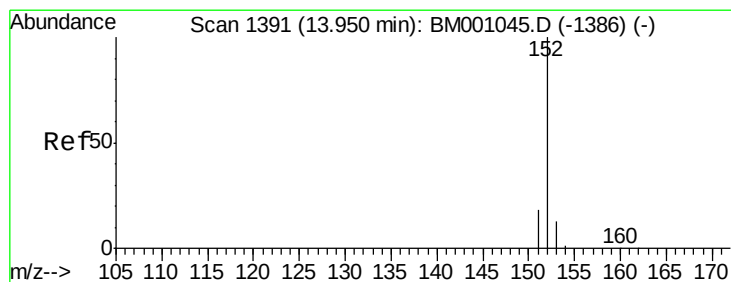
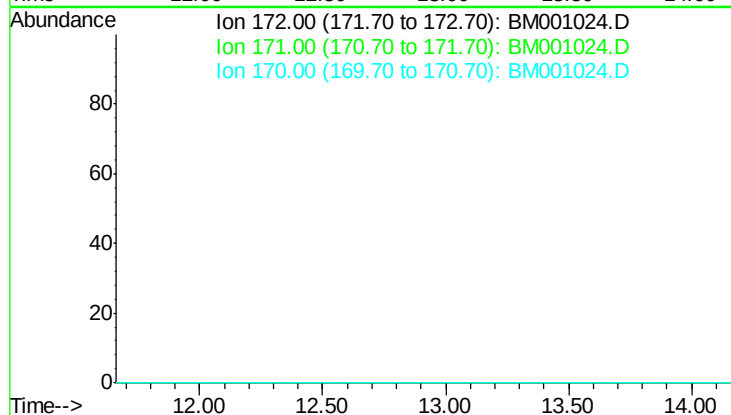
Tgt Ion: 172

Sig Exp Ratio

172 100

171 32.0

170 19.7



#10

Acenaphthylene

Concen: 2.47 ng

RT: 13.96 min Scan# 849

Delta R.T. 0.01 min

Lab File: BM001024.D

Acq: 16 Apr 2015 19:32

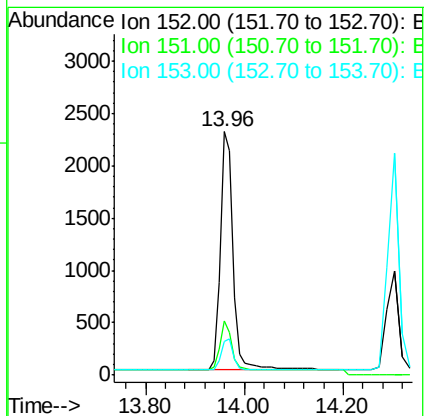
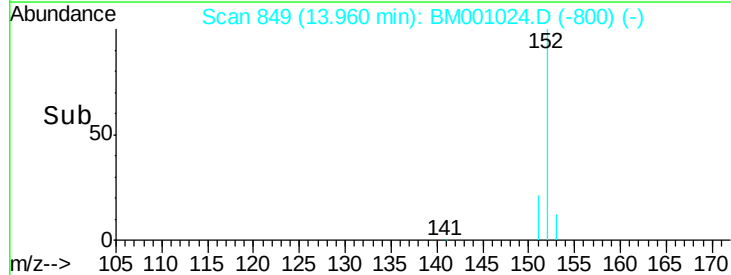
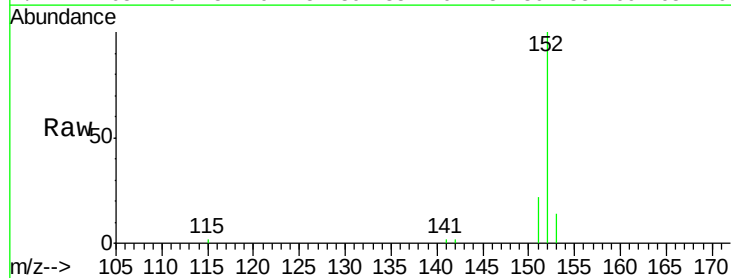
Tgt Ion: 152 Resp: 4115

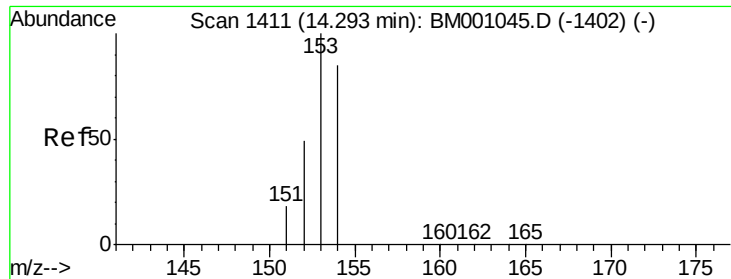
Ion Ratio Lower Upper

152 100

151 18.7 14.7 22.1

153 12.9 10.2 15.2





#11

Acenaphthene

Concen: 4.16 ng

RT: 14.30 min Scan# 879

Delta R.T. 0.01 min

Lab File: BM001024.D

Acq: 16 Apr 2015 19:32

Instrument :

BNA_M

ClientSampleId :

SSTD0.429

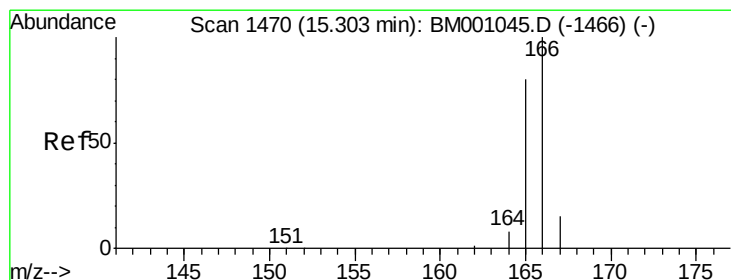
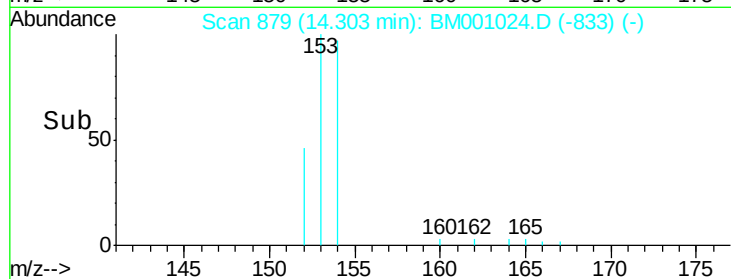
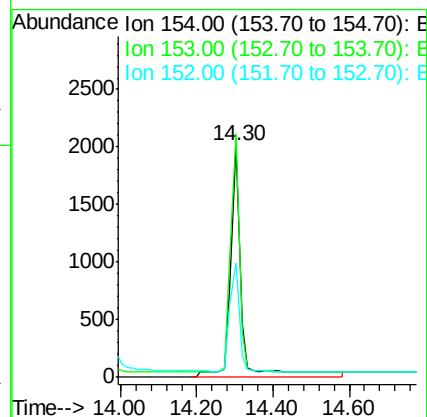
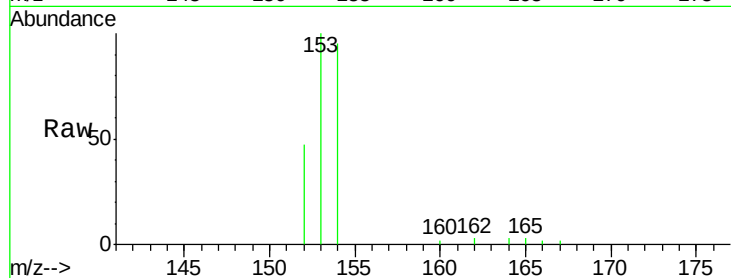
Tgt Ion:154 Resp: 3990

Ion Ratio Lower Upper

154 100

153 80.8 88.1 132.1#

152 40.0 42.3 63.5#



#12

Fluorene

Concen: 3.27 ng

RT: 15.29 min Scan# 943

Delta R.T. -0.01 min

Lab File: BM001024.D

Acq: 16 Apr 2015 19:32

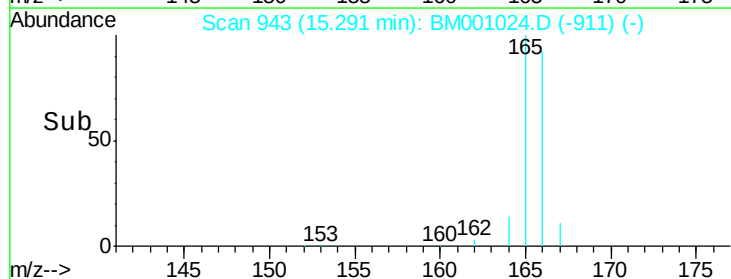
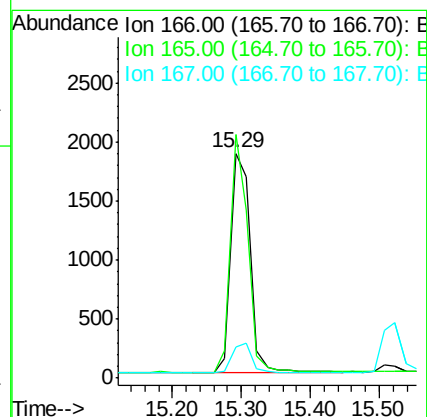
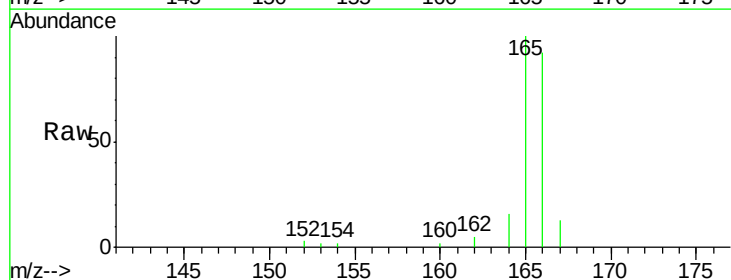
Tgt Ion:166 Resp: 3643

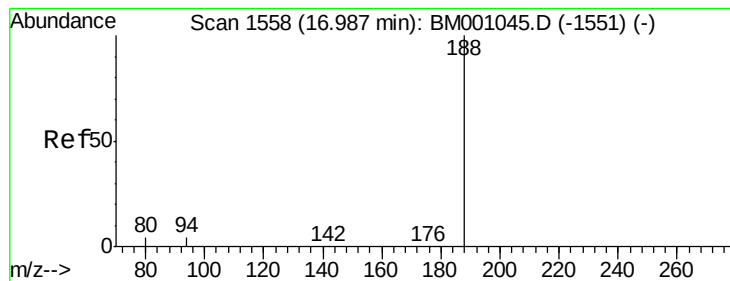
Ion Ratio Lower Upper

166 100

165 97.3 77.6 116.4

167 13.2 10.6 16.0





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.99 min Scan# 1053

Delta R.T. 0.01 min

Lab File: BM001024.D

Acq: 16 Apr 2015 19:32

Instrument :

BNA_M

ClientSampleId :

SSTD0.429

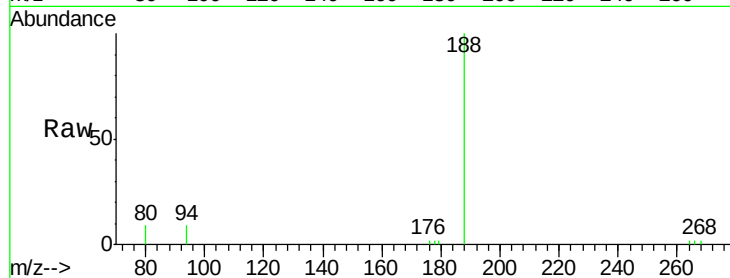
Tgt Ion:188 Resp: 4792

Ion Ratio Lower Upper

188 100

94 9.3 3.6 5.4#

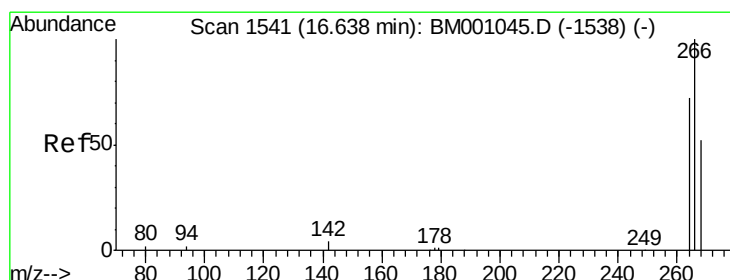
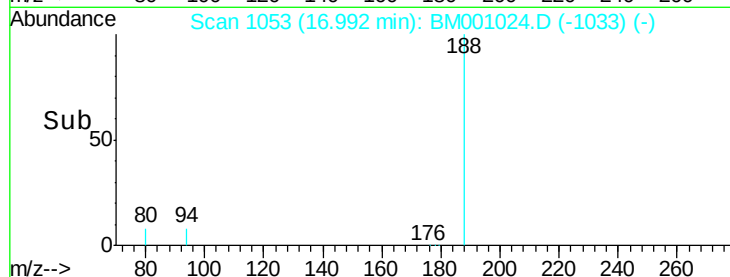
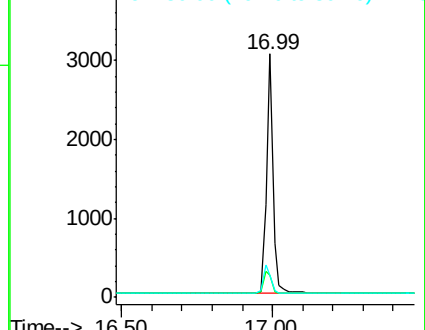
80 9.1 3.0 4.6#



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



#15

Pentachlorophenol

Concen: 1.43 ng

RT: 16.65 min Scan# 1031

Delta R.T. 0.01 min

Lab File: BM001024.D

Acq: 16 Apr 2015 19:32

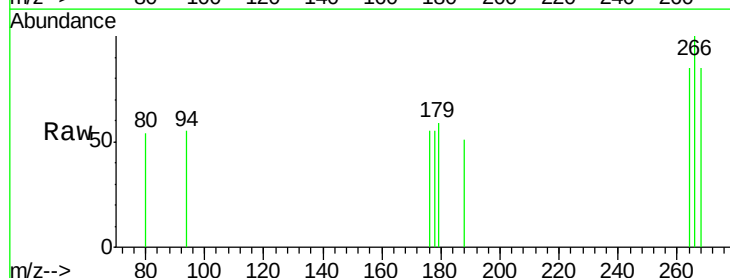
Tgt Ion:266 Resp: 123

Ion Ratio Lower Upper

266 100

268 84.9 46.3 69.5#

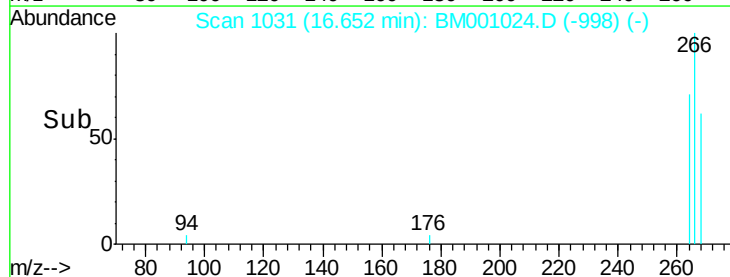
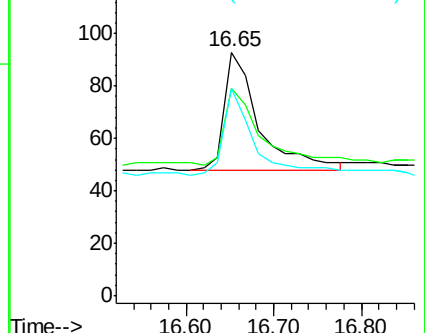
264 84.9 59.8 89.6

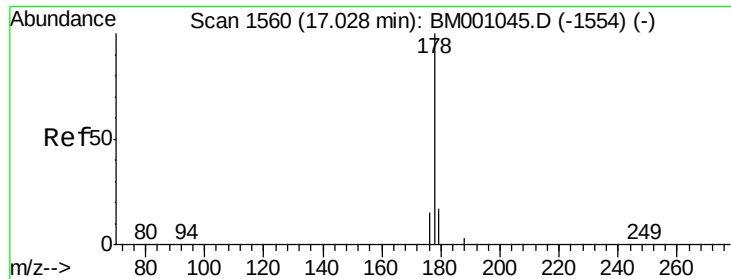


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#16

Phenanthrene

Concen: 4.30 ng

RT: 17.02 min Scan# 1055

Delta R.T. -0.00 min

Lab File: BM001024.D

Acq: 16 Apr 2015 19:32

Instrument :

BNA_M

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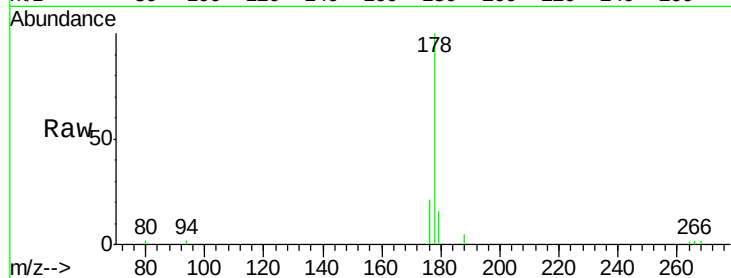
Tgt Ion:178 Resp: 5526

Ion Ratio Lower Upper

178 100

176 18.6 14.6 22.0

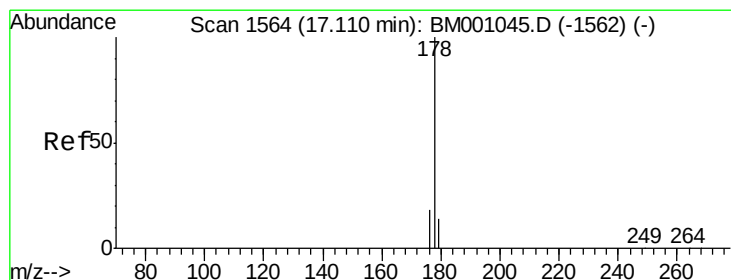
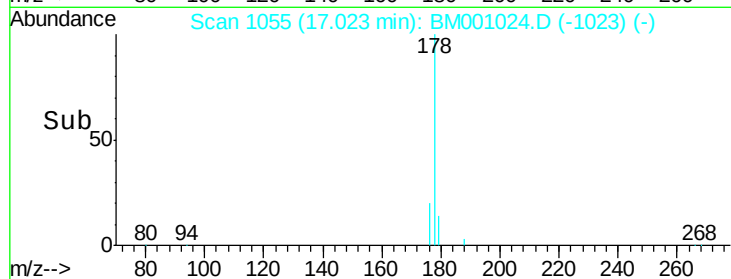
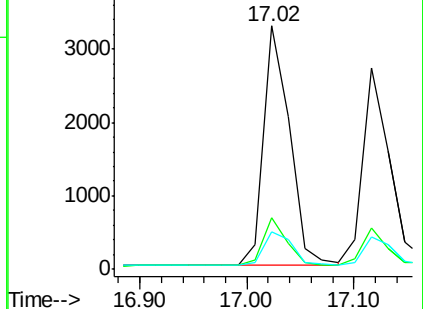
179 15.5 12.6 19.0



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: 4.56 ng

RT: 17.12 min Scan# 1061

Delta R.T. 0.01 min

Lab File: BM001024.D

Acq: 16 Apr 2015 19:32

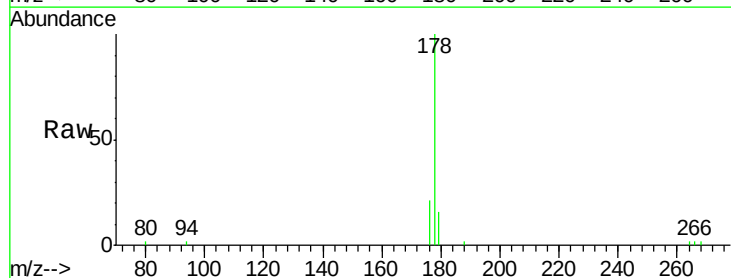
Tgt Ion:178 Resp: 5094

Ion Ratio Lower Upper

178 100

176 18.2 14.3 21.5

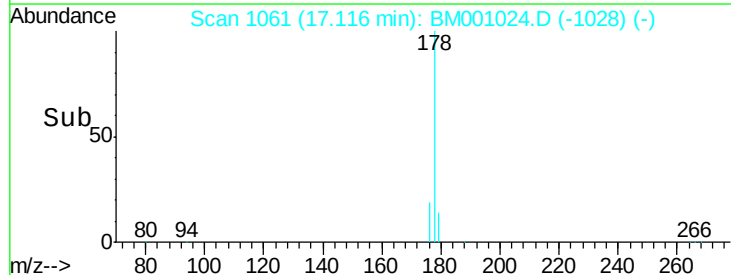
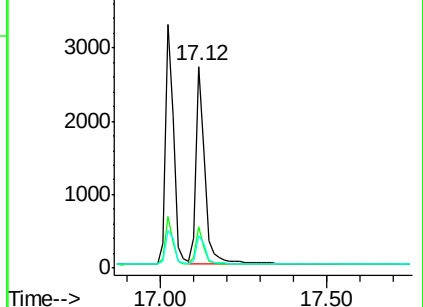
179 15.3 11.8 17.8

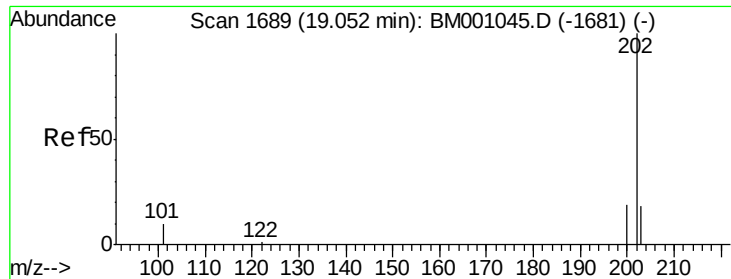


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

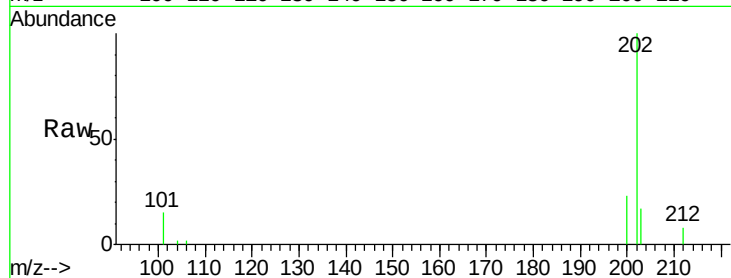




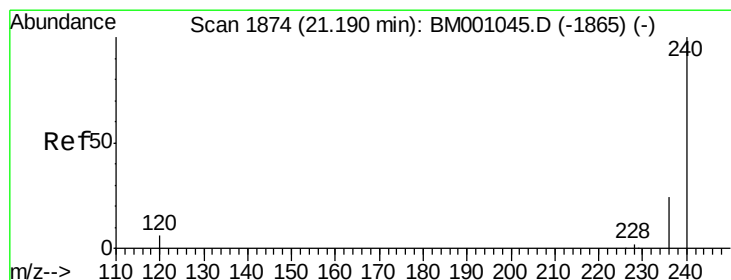
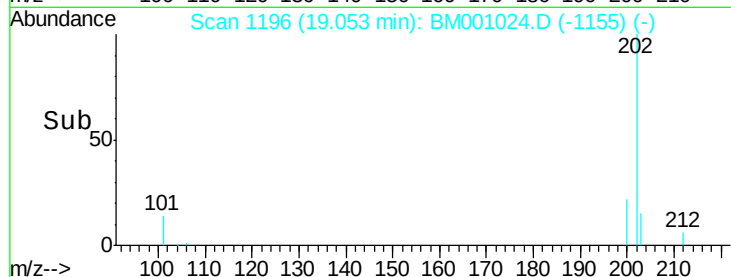
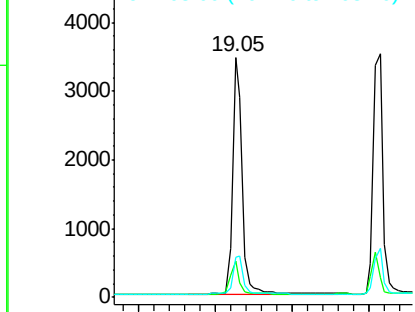
#18
 Fluoranthene
 Concen: 4.67 ng
 RT: 19.05 min Scan# 1196
 Delta R.T. 0.00 min
 Lab File: BM001024.D
 Acq: 16 Apr 2015 19:32

Instrument :
 BNA_M
 ClientSampleId :
 SST0.429

Tgt Ion: 202 Resp: 5904
 Ion Ratio Lower Upper
 202 100
 101 12.9 10.1 15.1
 203 17.6 13.8 20.8

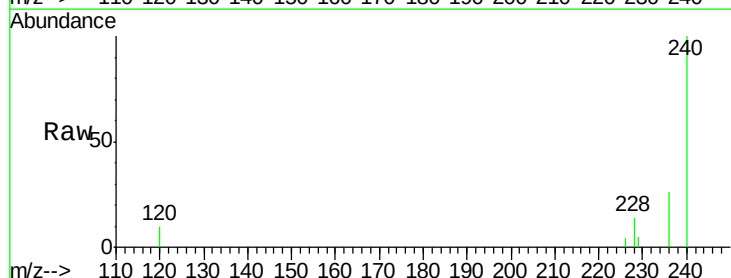


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

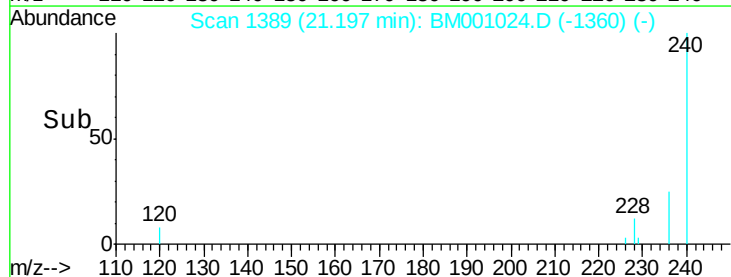
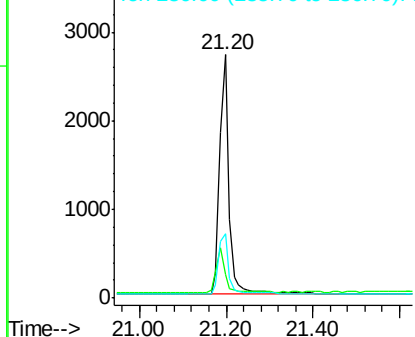


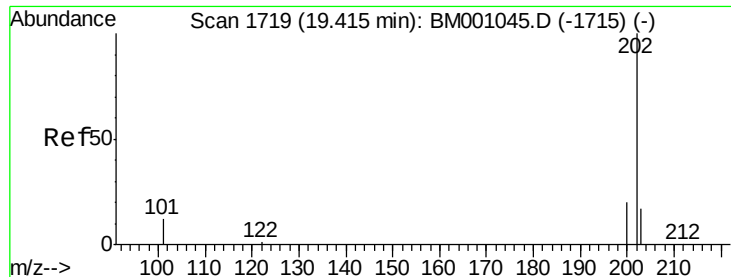
#19
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.20 min Scan# 1389
 Delta R.T. 0.01 min
 Lab File: BM001024.D
 Acq: 16 Apr 2015 19:32

Tgt Ion: 240 Resp: 3922
 Ion Ratio Lower Upper
 240 100
 120 9.9 4.6 6.8#
 236 26.3 19.1 28.7



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

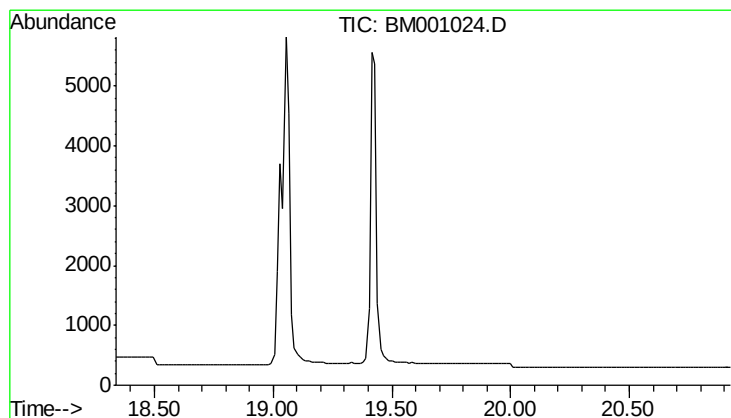
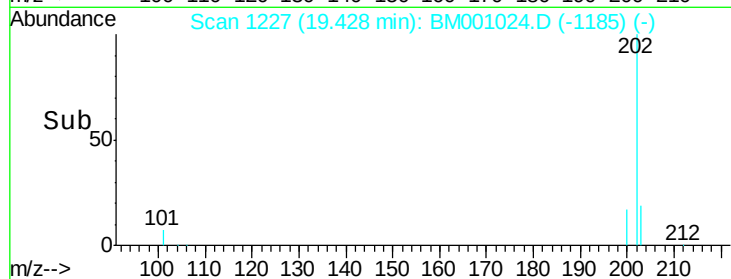
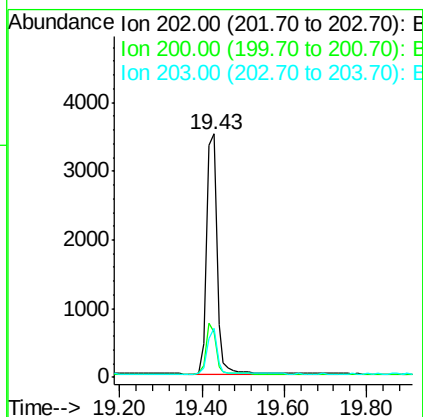
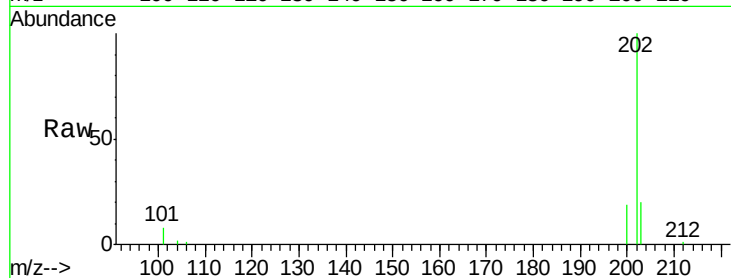




#20
Pyrene
Concen: 4.73 ng
RT: 19.43 min Scan# 1227
Delta R.T. 0.01 min
Lab File: BM001024.D
Acq: 16 Apr 2015 19:32

Instrument :
BNA_M
ClientSampleId :
SSTD0.429

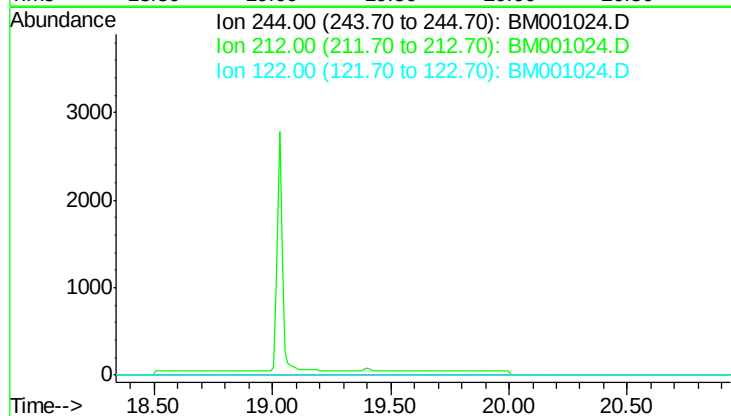
Tgt Ion: 202 Resp: 6166
Ion Ratio Lower Upper
202 100
200 19.9 16.3 24.5
203 18.1 13.8 20.6

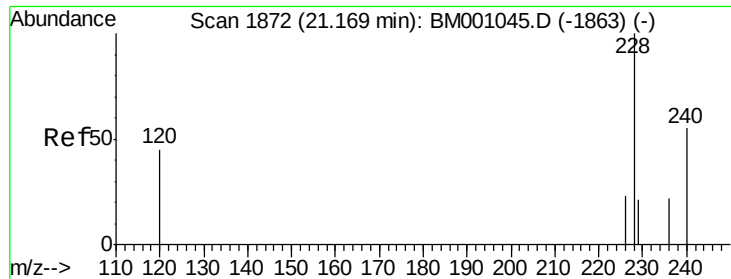


#21
Terphenyl-d14
Concen: 0.00 ng
Expected RT: 19.63 min

Lab File: BM001024.D
Acq: 16 Apr 2015 19:32

Tgt Ion: 244
Sig Exp Ratio
244 100
212 8.9
122 7.4





#22

Benzo(a)anthracene

Concen: 3.76 ng

RT: 21.18 min Scan# 1387

Delta R.T. 0.01 min

Lab File: BM001024.D

Acq: 16 Apr 2015 19:32

Instrument :

BNA_M

ClientSampleId :

SSTD0.429

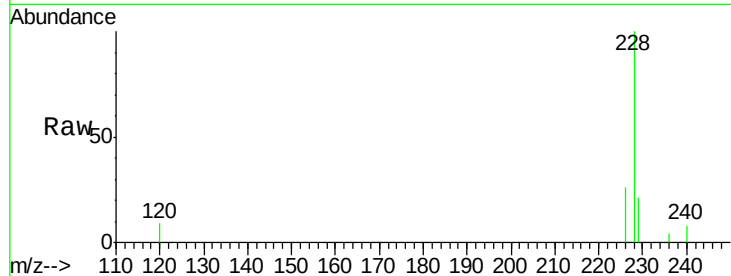
Tgt Ion:228 Resp: 4644

Ion Ratio Lower Upper

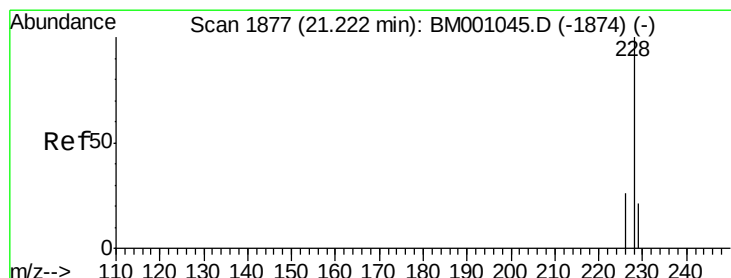
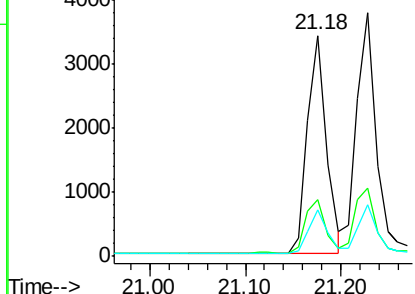
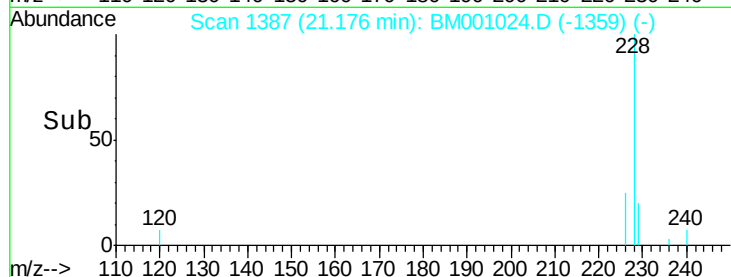
228 100

226 25.9 19.0 28.6

229 20.8 16.8 25.2



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#23

Chrysene

Concen: 5.09 ng

RT: 21.23 min Scan# 1392

Delta R.T. 0.01 min

Lab File: BM001024.D

Acq: 16 Apr 2015 19:32

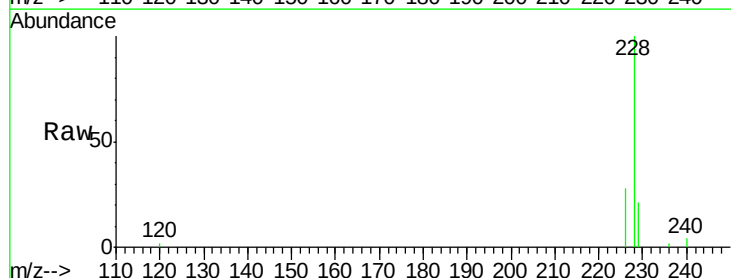
Tgt Ion:228 Resp: 5644

Ion Ratio Lower Upper

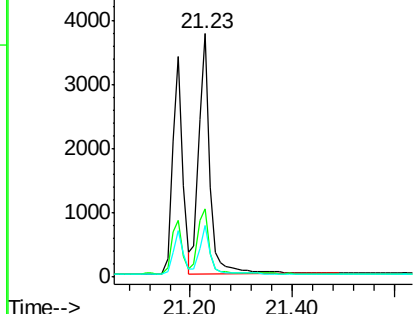
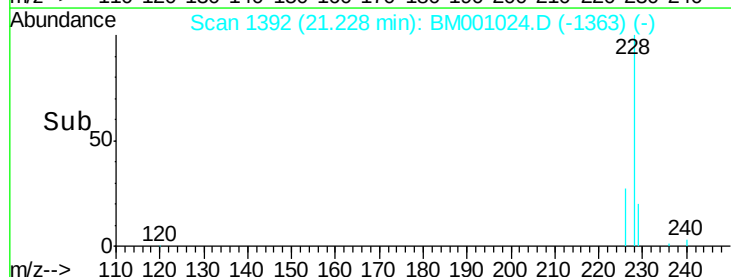
228 100

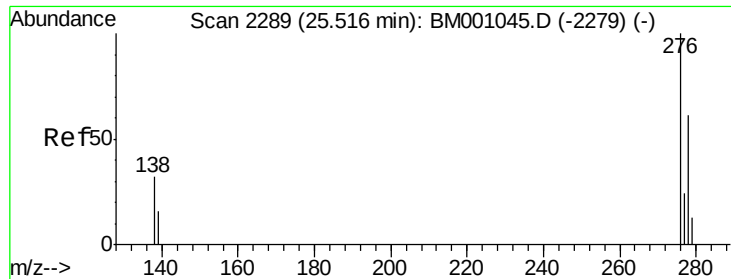
226 27.8 20.6 31.0

229 21.1 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





#24

Indeno(1,2,3-cd)pyrene

Concen: 4.99 ng

RT: 25.53 min Scan# 1805

Delta R.T. 0.02 min

Lab File: BM001024.D

Acq: 16 Apr 2015 19:32

Instrument :

BNA_M

ClientSampleId :

SSTD0.429

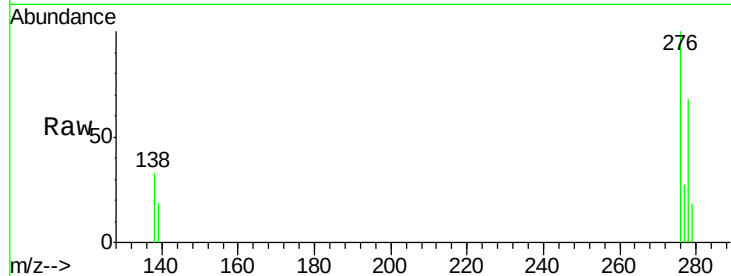
Tgt Ion:276 Resp: 6017

Ion Ratio Lower Upper

276 100

138 33.0 26.3 39.5

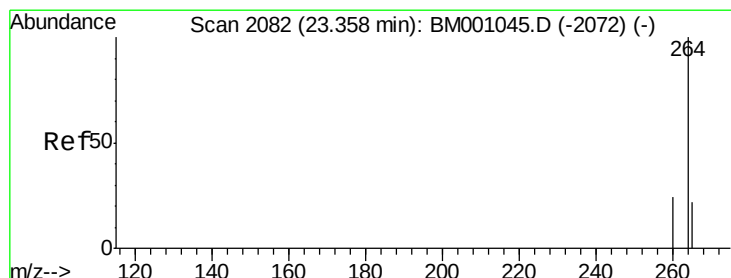
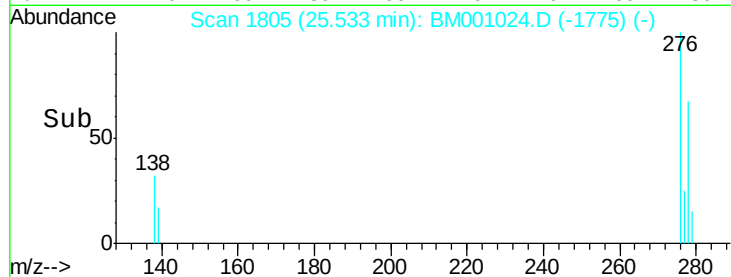
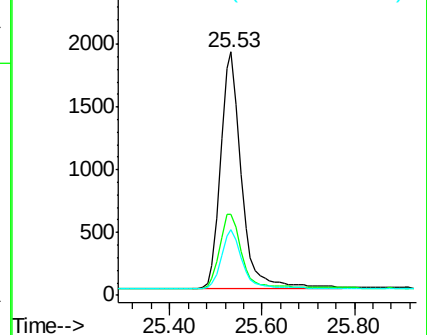
277 25.0 19.5 29.3



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



#25

Perylene-d12

Concen: 5.00 ng

RT: 23.36 min Scan# 1597

Delta R.T. 0.01 min

Lab File: BM001024.D

Acq: 16 Apr 2015 19:32

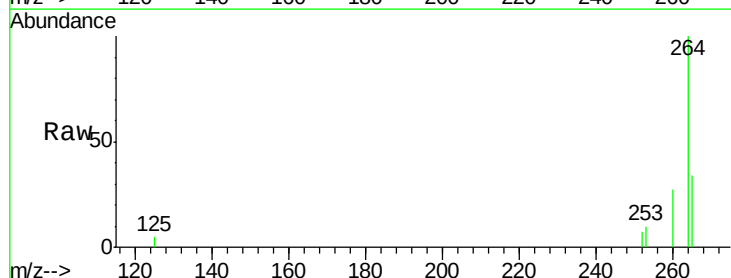
Tgt Ion:264 Resp: 3610

Ion Ratio Lower Upper

264 100

260 26.9 19.0 28.6

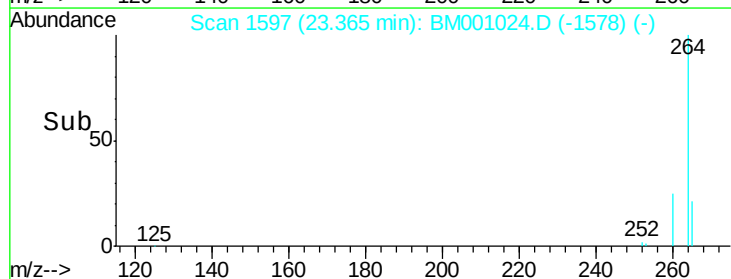
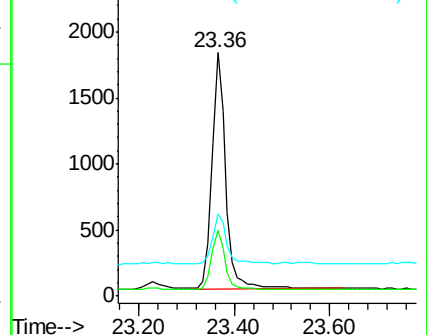
265 33.6 17.9 26.9#

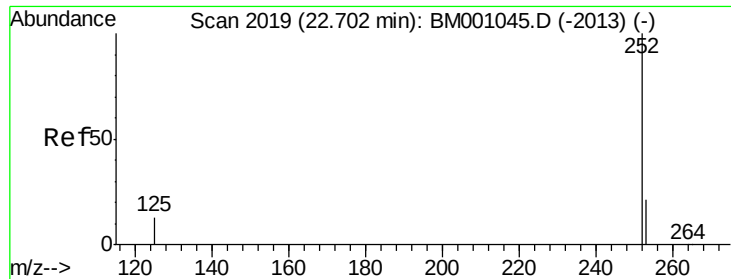


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#26

Benzo(b)fluoranthene

Concen: 4.03 ng

RT: 22.71 min Scan# 1534

Delta R.T. 0.01 min

Lab File: BM001024.D

Acq: 16 Apr 2015 19:32

Instrument :

BNA_M

ClientSampleId :

SSTD0.429

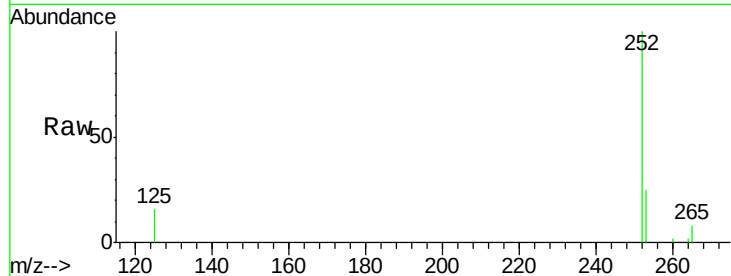
Tgt Ion:252 Resp: 5028

Ion Ratio Lower Upper

252 100

253 25.0 18.2 27.2

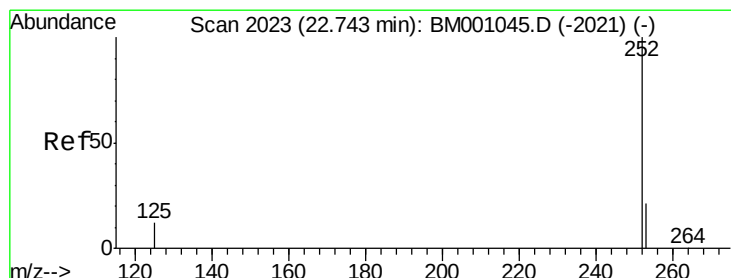
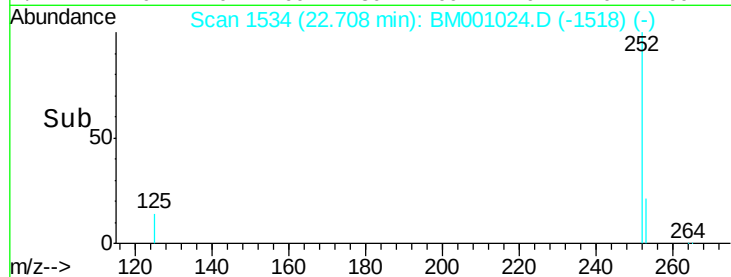
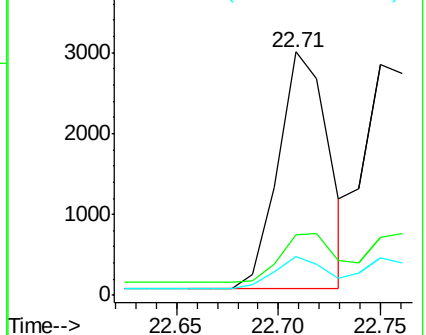
125 16.1 10.9 16.3



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



#27

Benzo(k)fluoranthene

Concen: 5.11 ng

RT: 22.75 min Scan# 1538

Delta R.T. 0.01 min

Lab File: BM001024.D

Acq: 16 Apr 2015 19:32

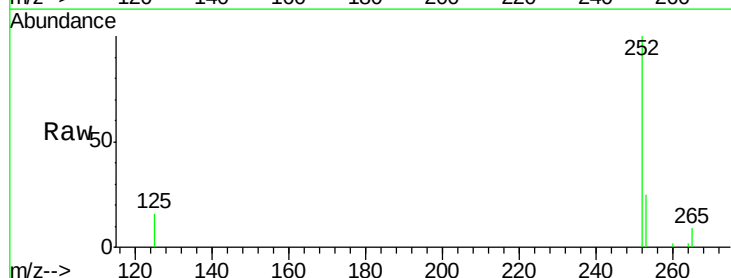
Tgt Ion:252 Resp: 5595

Ion Ratio Lower Upper

252 100

253 25.2 18.3 27.5

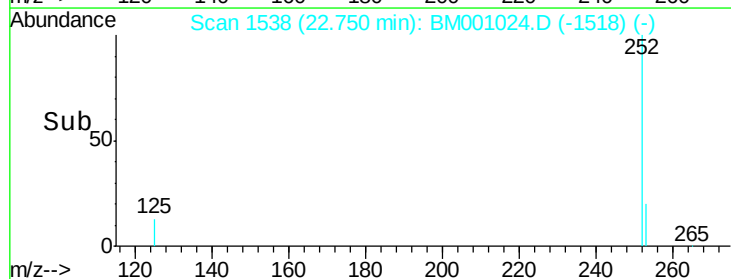
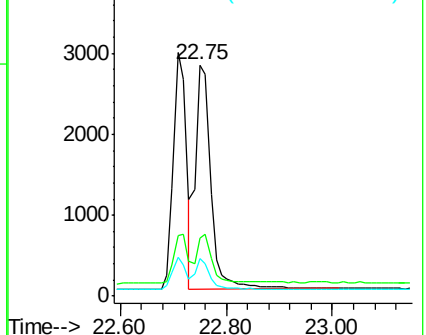
125 16.1 10.6 15.8#

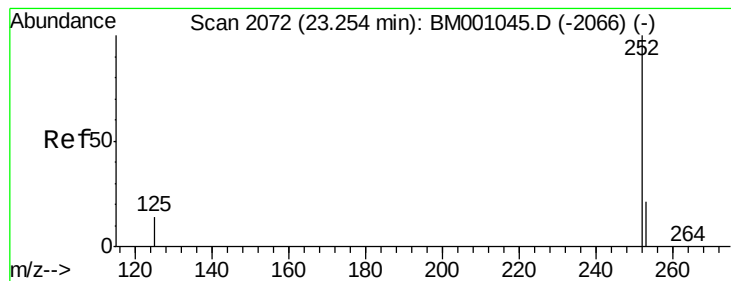


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#28

Benzo(a)pyrene

Concen: 4.77 ng

RT: 23.26 min Scan# 1587

Delta R.T. 0.01 min

Lab File: BM001024.D

Acq: 16 Apr 2015 19:32

Instrument :

BNA_M

ClientSampleId :

SSTD0.429

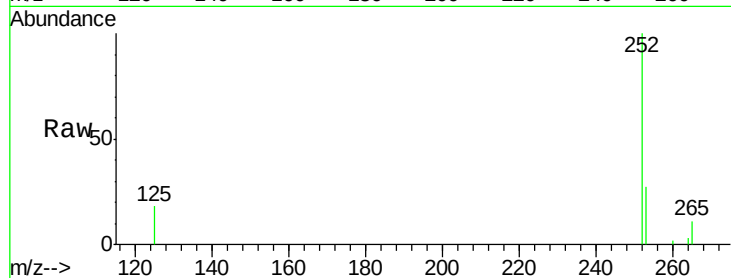
Tgt Ion:252 Resp: 4977

Ion Ratio Lower Upper

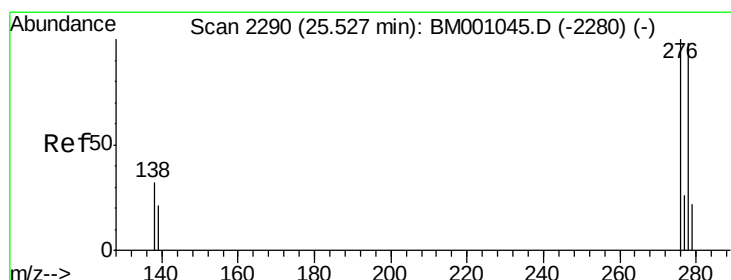
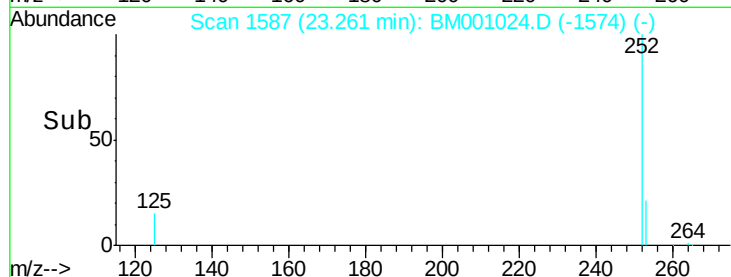
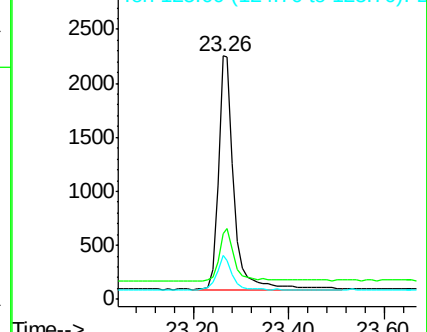
252 100

253 27.2 18.6 27.8

125 18.1 11.9 17.9#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#29

Dibenzo(a,h)anthracene

Concen: 5.06 ng

RT: 25.54 min Scan# 1806

Delta R.T. 0.02 min

Lab File: BM001024.D

Acq: 16 Apr 2015 19:32

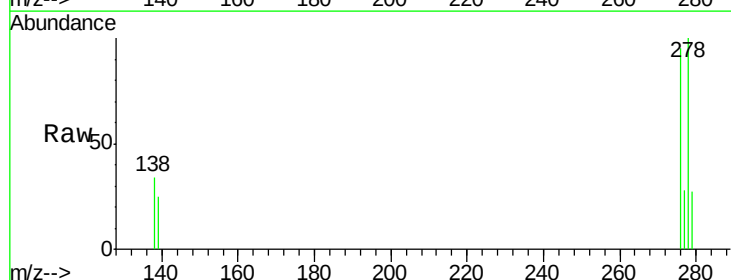
Tgt Ion:278 Resp: 4977

Ion Ratio Lower Upper

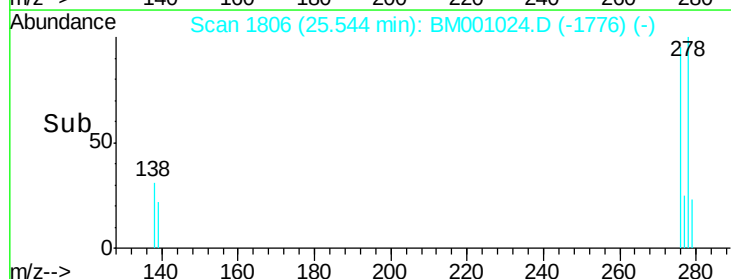
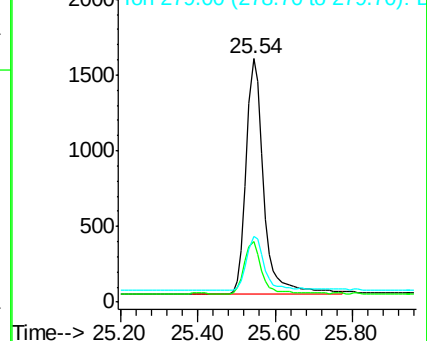
278 100

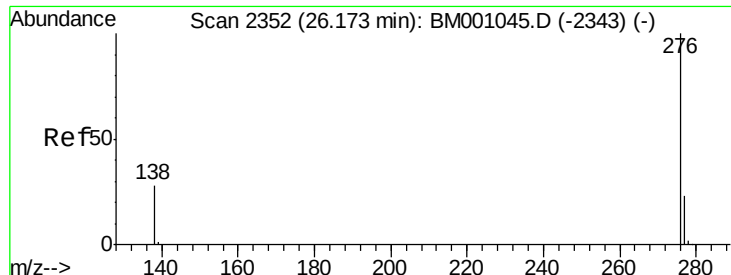
139 24.7 18.2 27.2

279 27.0 19.1 28.7



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#30

Benzo(g,h,i)perylene

Concen: 5.35 ng

RT: 26.19 min Scan# 1868

Delta R.T. 0.02 min

Lab File: BM001024.D

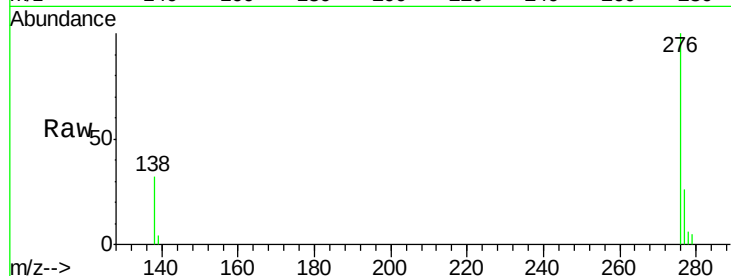
Acq: 16 Apr 2015 19:32

Instrument :

BNA_M

ClientSampleId :

SSTD0.429



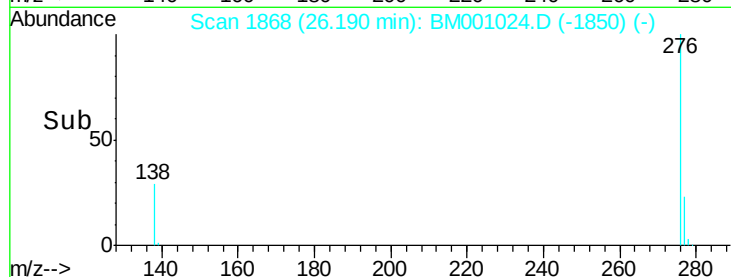
Tgt Ion: 276 Resp: 5366

Ion Ratio Lower Upper

276 100

277 25.7 19.0 28.4

138 31.7 23.4 35.2



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

