

Data Path : Z:\HPCHEM1\BNA M\DATA\BM051615\
 Data File : BM001319.D
 Acq On : 15 May 2015 07:28
 Operator : TP/IZ
 Sample : G2182-02
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 S32-0483

Quant Time: May 15 08:30:45 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SIMPAH-BM051315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 13 05:24:15 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.45	152	20	5.00	ng	0.00
6) Naphthalene-d8	10.23	136	58	5.00	ng	0.02
12) Acenaphthene-d10	14.12	164	17	5.00	ng	0.00
18) Phenanthrene-d10	16.88	188	26	5.00	ng	0.03
24) Chrysene-d12	21.08	240	61	5.00	ng	0.00
30) Perylene-d12	23.19	264	62	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.05	112	19	4.88	ng	0.02
5) Phenol-d6	6.78	99	3	0.68	ng	0.15
7) Nitrobenzene-d5	8.64	82	7	1.99	ng	0.04
13) 2,4,6-Tribromophenol	15.63	330	6	10.28	ng	0.00
14) 2-Fluorobiphenyl	12.75	172	27	5.12	ng	0.02
26) Terphenyl-d14	19.53	244	19	2.32	ng	0.00

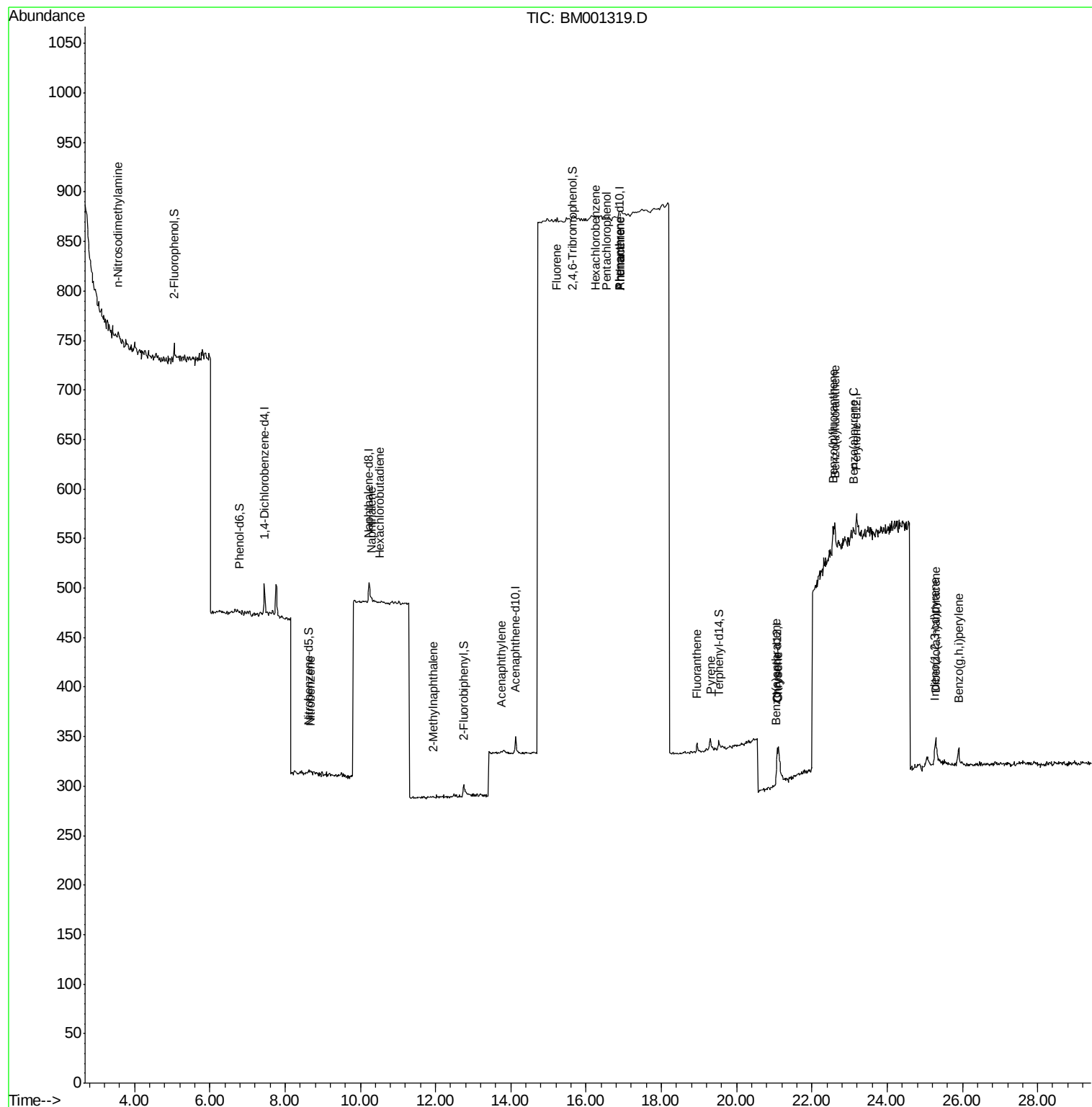
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	3.57	42	16	7.07	ng	# 2
8) Nitrobenzene	8.67	77	1	0.38	ng	# 1
9) Naphthalene	10.28	128	11	0.89	ng	# 1
10) Hexachlorobutadiene	10.52	225	7	2.90	ng	# 37
11) 2-Methylnaphthalene	11.95	142	1	0.12	ng	# 63
15) Acenaphthylene	13.74	152	1048	149.75	ng	# 62
17) Fluorene	15.23	166	1676	412.97	ng	# 14
19) Hexachlorobenzene	16.24	284	9	5.38	ng	# 46
20) Pentachlorophenol	16.55	266	2	4.30	ng	# 71
21) Phenanthrene	16.92	178	11	2.78	ng	# 1
22) Anthracene	16.92	178	11	2.86	ng	# 1
23) Fluoranthene	18.95	202	17	2.74	ng	# 57
25) Pvrene	19.31	202	17	0.90	ng	# 59
27) Benzo(a)anthracene	21.06	228	22	1.33	ng	# 1
28) Chrysene	21.11	228	66	3.93	ng	# 1
29) Indeno(1,2,3-cd)pyrene	25.27	276	56	3.28	ng	# 68
31) Benzo(b)fluoranthene	22.56	252	36	1.98	ng	# 1
32) Benzo(k)fluoranthene	22.61	252	39	2.26	ng	# 1
33) Benzo(a)pvrene	23.10	252	30	1.91	ng	# 1
34) Dibenzo(a,h)anthracene	25.29	278	42	2.84	ng	# 1
35) Benzo(g,h,i)perylene	25.90	276	45	2.77	ng	# 1

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.45 min Scan# 309

Delta R.T. -0.00 min

Lab File: BM001319.D

Acq: 15 May 2015 07:28

Instrument :

BNA_M

ClientSampleId :

S32-0483

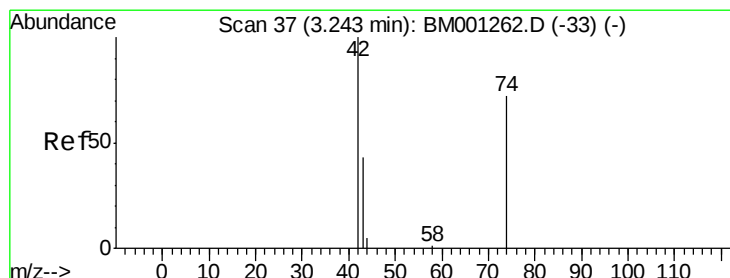
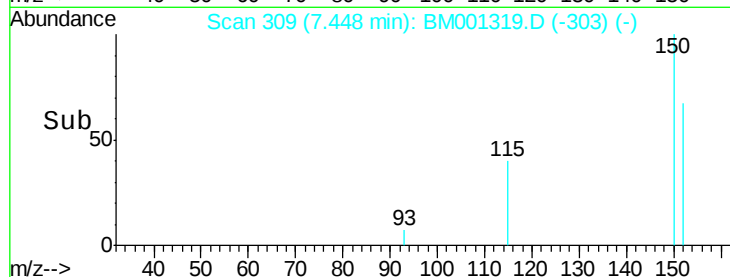
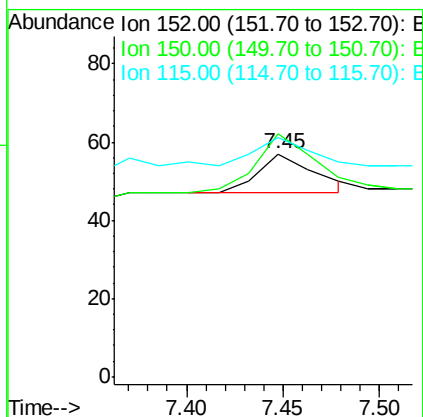
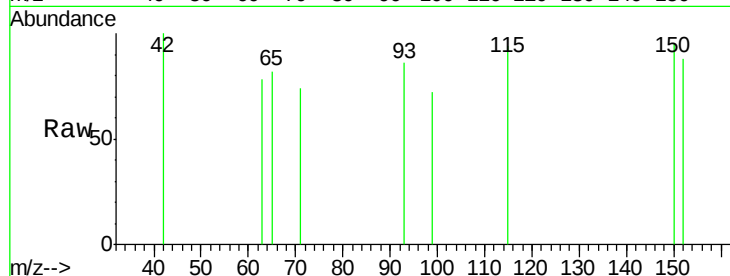
Tot Ion:152 Resp: 20

Ion Ratio Lower Upper

152 100

150 108.8 114.6 172.0#

115 107.0 39.3 58.9#



#3

n-Nitrosodimethylamine

Concen: 7.07 ng

RT: 3.57 min Scan# 58

Delta R.T. 0.32 min

Lab File: BM001319.D

Acq: 15 May 2015 07:28

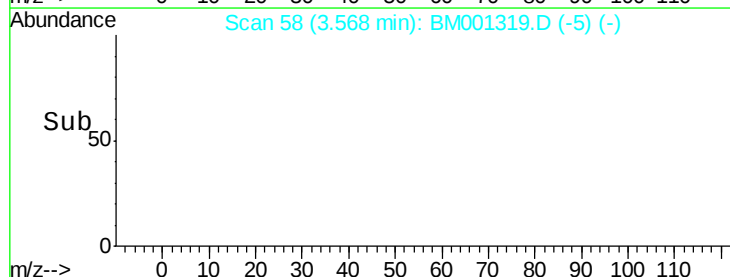
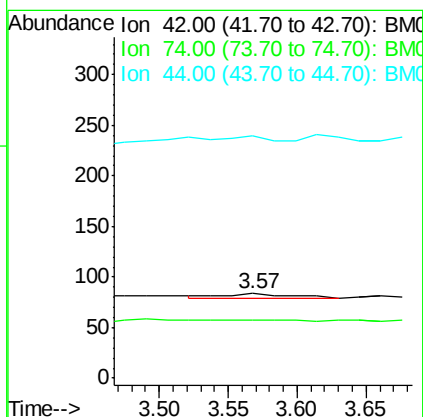
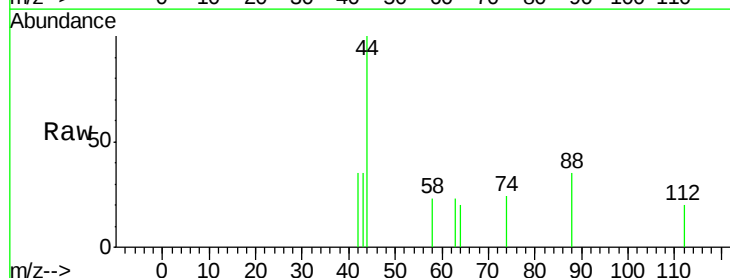
Tgt Ion: 42 Resp: 16

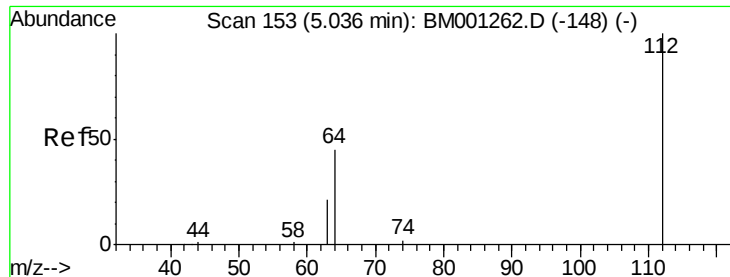
Ion Ratio Lower Upper

42 100

74 0.0 82.1 123.1#

44 0.0 3.0 4.4#





#4

2-Fluorophenol

Concen: 4.88 ng

RT: 5.05 min Scan# 154

Delta R.T. 0.02 min

Lab File: BM001319.D

Acq: 15 May 2015 07:28

Instrument :

BNA_M

ClientSampleId :

S32-0483

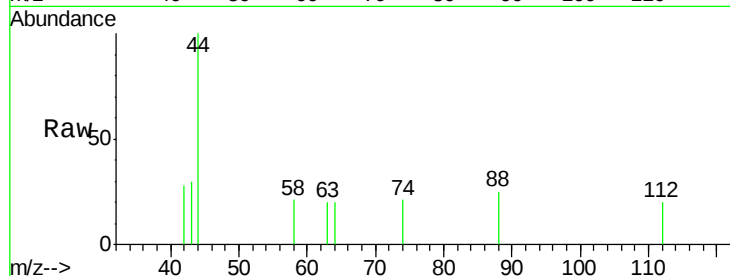
Tot Ion:112 Resp: 19

Ion Ratio Lower Upper

112 100

64 0.0 50.8 76.2#

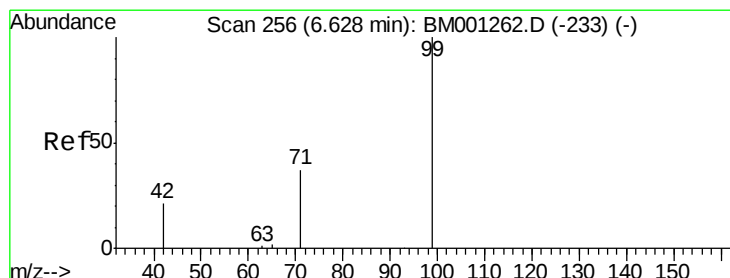
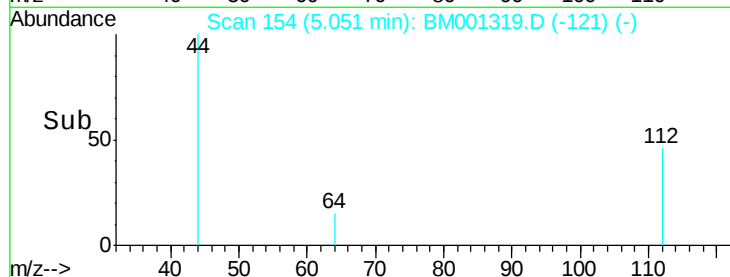
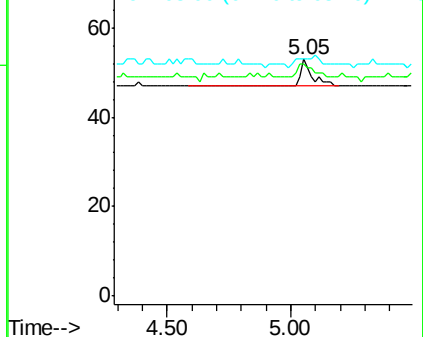
63 0.0 28.2 42.4#



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BM0

Ion 63.00 (62.70 to 63.70): BM0



#5

Phenol-d6

Concen: 0.68 ng

RT: 6.78 min Scan# 266

Delta R.T. 0.15 min

Lab File: BM001319.D

Acq: 15 May 2015 07:28

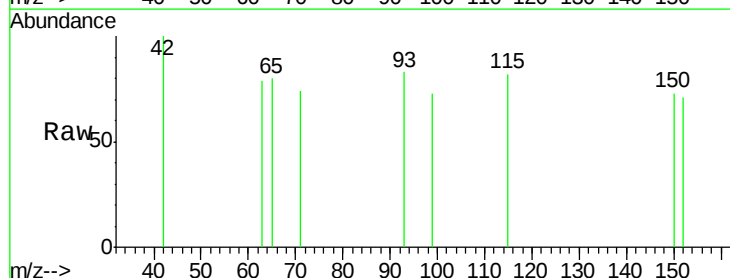
Tgt Ion: 99 Resp: 3

Ion Ratio Lower Upper

99 100

42 0.0 19.9 29.9#

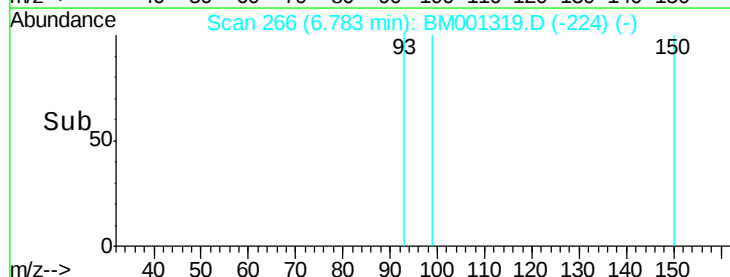
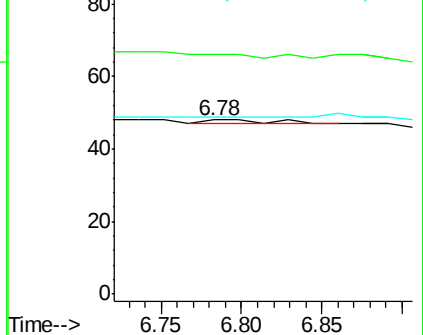
71 0.0 28.0 42.0#

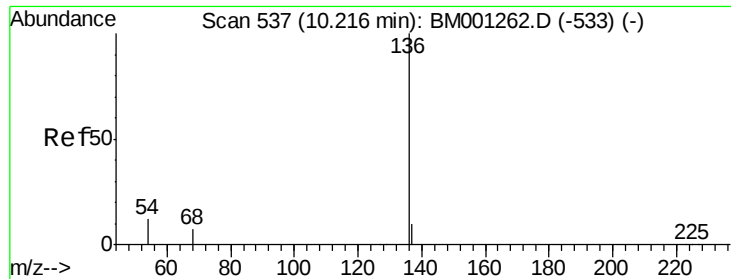


Abundance Ion 99.00 (98.70 to 99.70): BM0

Ion 42.00 (41.70 to 42.70): BM0

Ion 71.00 (70.70 to 71.70): BM0





#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.23 min Scan# 538

Delta R.T. 0.02 min

Lab File: BM001319.D

Acq: 15 May 2015 07:28

Instrument :

BNA_M

ClientSampleId :

S32-0483

Tot Ion:136 Resp: 58

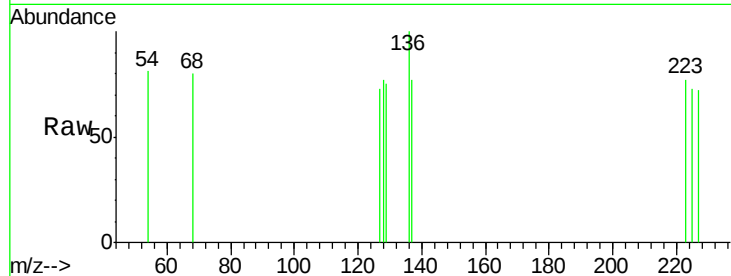
Ion Ratio Lower Upper

136 100

137 76.6 8.2 12.4#

54 81.3 9.5 14.3#

68 79.7 5.5 8.3#



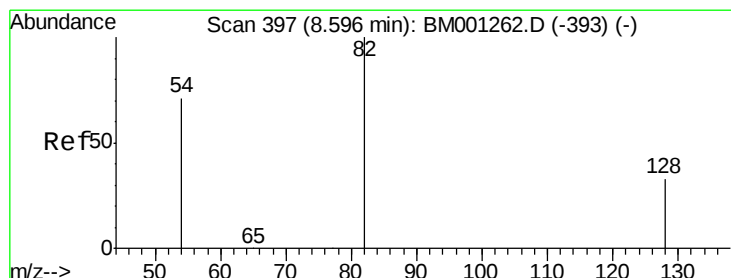
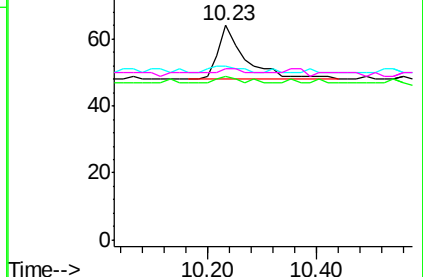
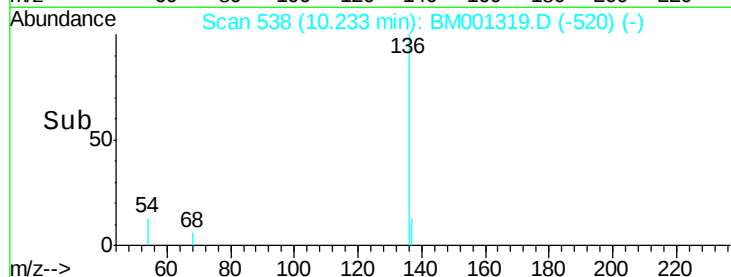
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BM

Ion 68.00 (67.70 to 68.70): BM

Time-->



#7

Nitrobenzene-d5

Concen: 1.99 ng

RT: 8.64 min Scan# 401

Delta R.T. 0.04 min

Lab File: BM001319.D

Acq: 15 May 2015 07:28

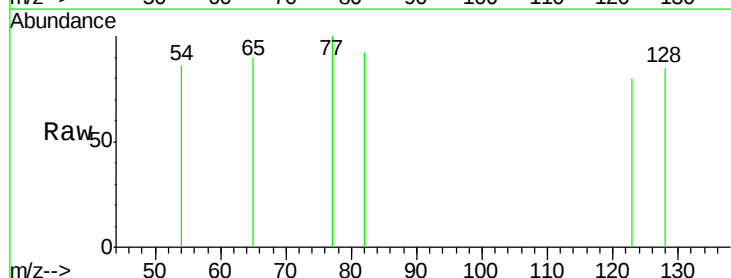
Tgt Ion: 82 Resp: 7

Ion Ratio Lower Upper

82 100

128 92.6 28.0 42.0#

54 94.4 57.3 85.9#

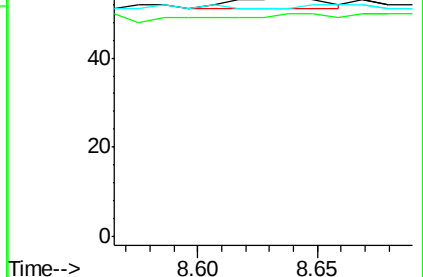
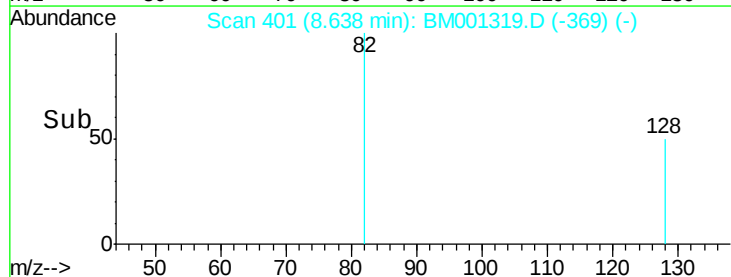


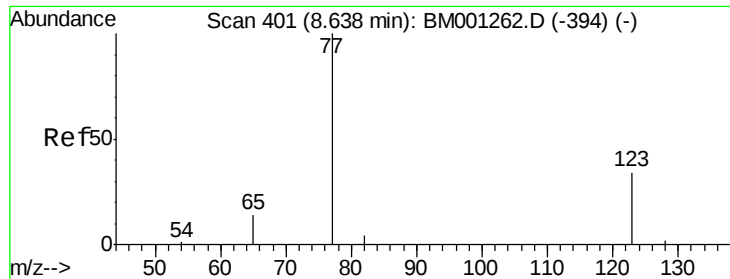
Abundance Ion 82.00 (81.70 to 82.70): BM

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM

Time-->





#8

Nitrobenzene

Concen: 0.38 ng

RT: 8.67 min Scan# 404

Delta R.T. 0.03 min

Lab File: BM001319.D

Acq: 15 May 2015 07:28

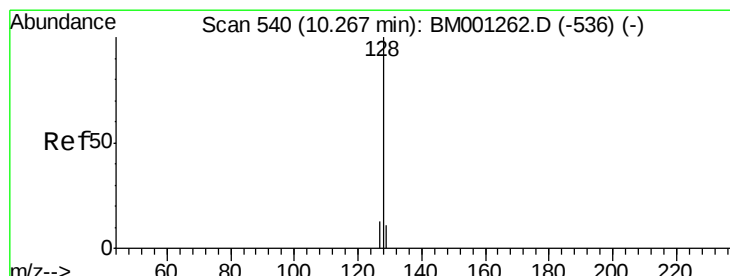
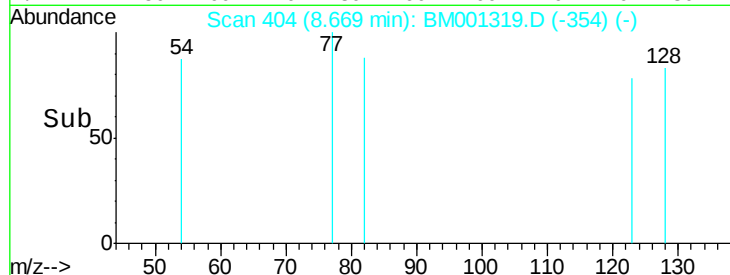
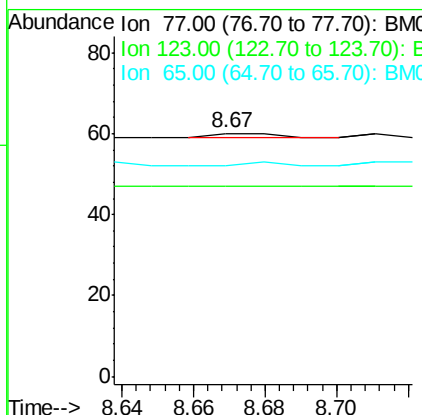
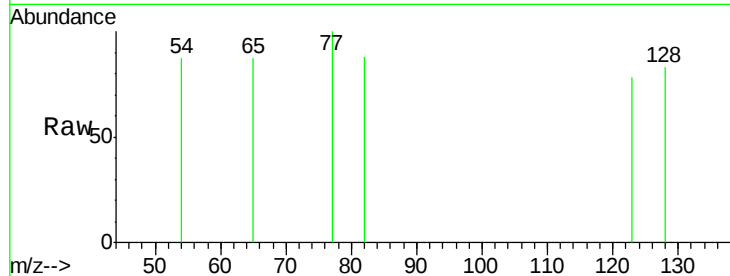
Instrument :

BNA_M

ClientSampleId :

S32-0483

Tot Ion:	77	Resp:	1
Ion	Ratio	Lower	Upper
77	100		
123	0.0	33.4	50.2#
65	100.0	10.6	15.8#



#9

Naphthalene

Concen: 0.89 ng

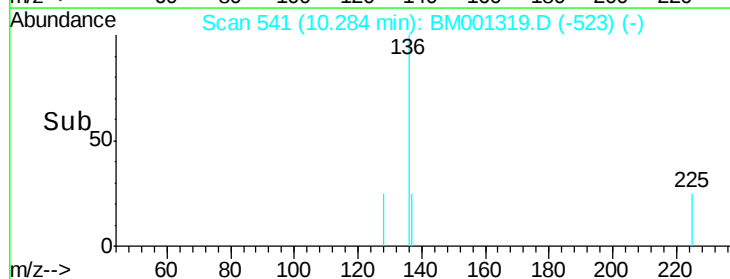
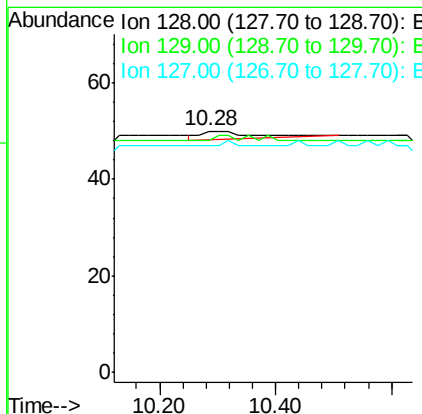
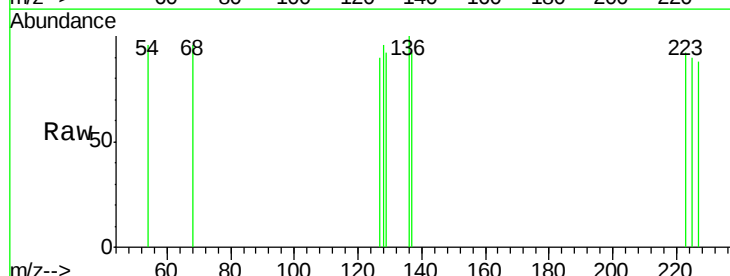
RT: 10.28 min Scan# 541

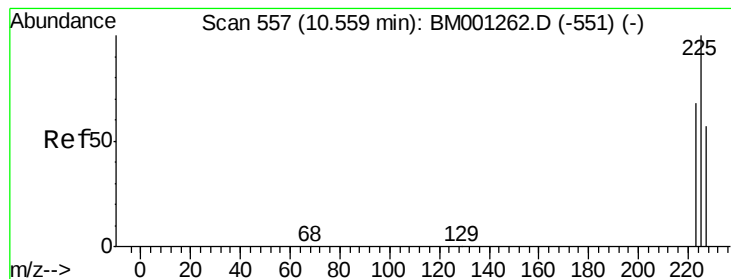
Delta R.T. 0.02 min

Lab File: BM001319.D

Acq: 15 May 2015 07:28

Tgt Ion:	128	Resp:	11
Ion	Ratio	Lower	Upper
128	100		
129	96.0	9.1	13.7#
127	94.0	10.6	16.0#





#10

Hexachlorobutadiene

Concen: 2.90 ng

RT: 10.52 min Scan# 555

Delta R.T. -0.03 min

Lab File: BM001319.D

Acq: 15 May 2015 07:28

Instrument :

BNA_M

ClientSampleId :

S32-0483

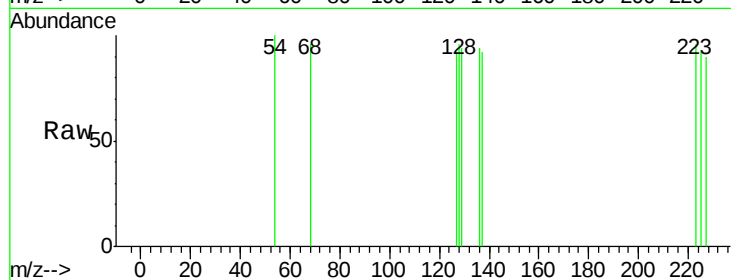
Tot Ion:225 Resp: 7

Ion Ratio Lower Upper

225 100

223 28.6 49.6 74.4#

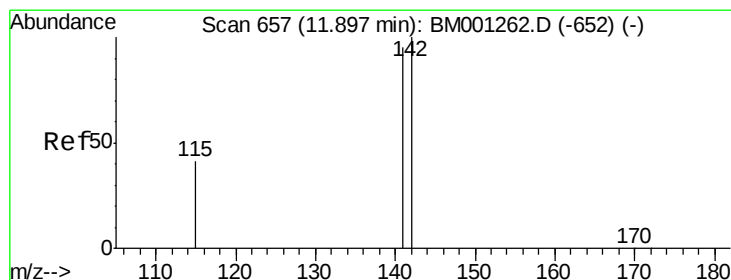
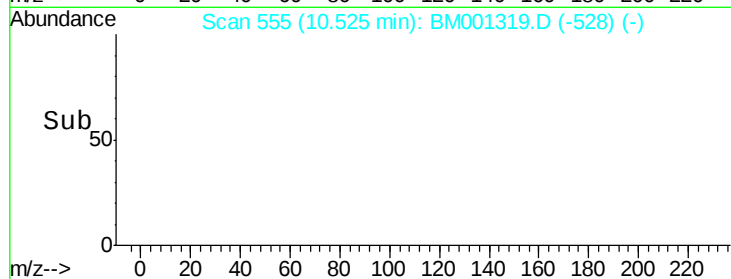
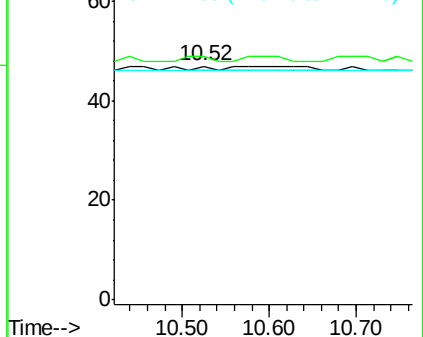
227 0.0 51.4 77.2#



Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E



#11

2-Methylnaphthalene

Concen: 0.12 ng

RT: 11.95 min Scan# 662

Delta R.T. 0.05 min

Lab File: BM001319.D

Acq: 15 May 2015 07:28

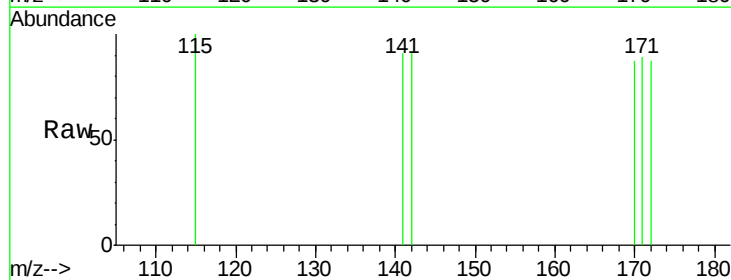
Tgt Ion:142 Resp: 1

Ion Ratio Lower Upper

142 100

141 100.0 76.1 114.1

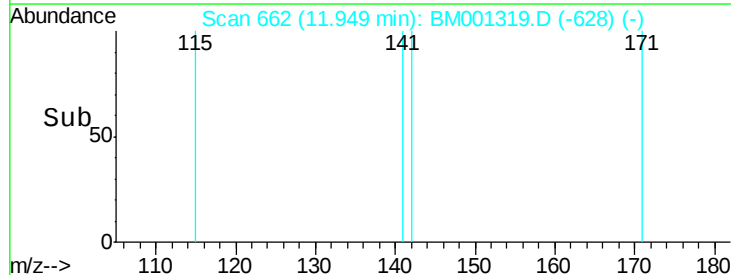
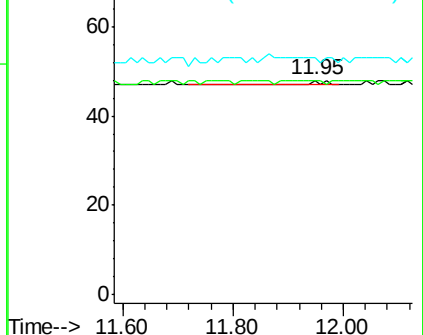
115 110.4 33.1 49.7#

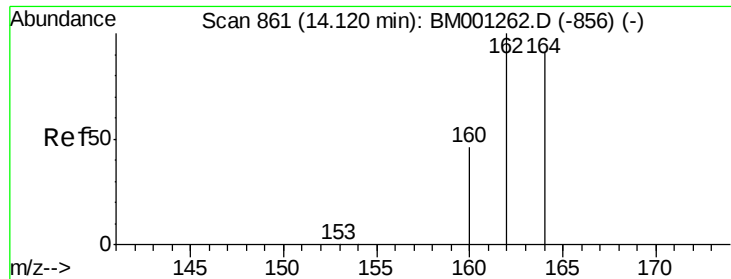


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.12 min Scan# 861

Delta R.T. -0.00 min

Lab File: BM001319.D

Acq: 15 May 2015 07:28

Instrument :

BNA_M

ClientSampleId :

S32-0483

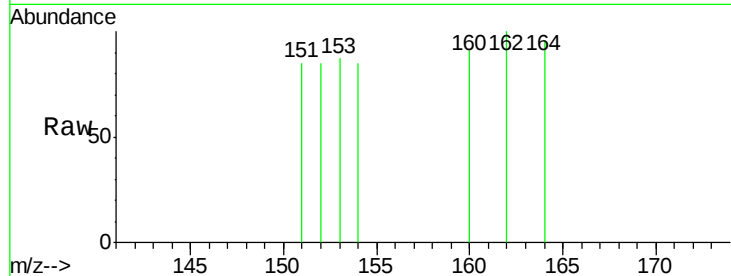
Tot Ion:164 Resp: 17

Ion Ratio Lower Upper

164 100

162 103.8 87.9 131.9

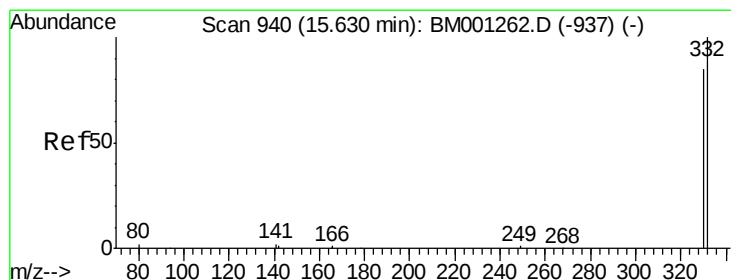
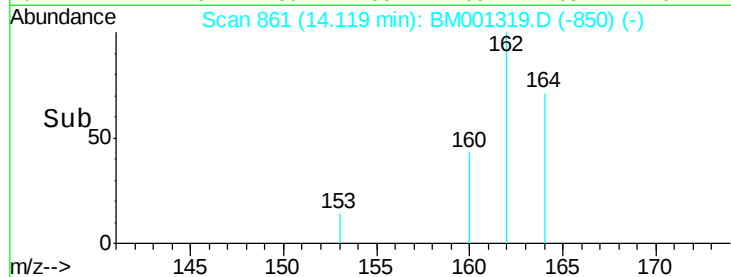
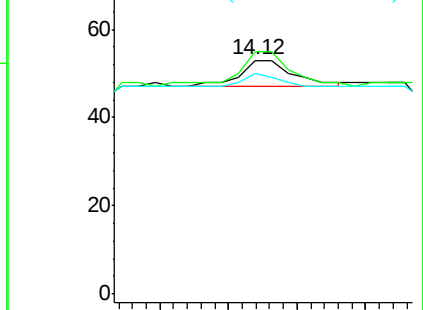
160 94.3 40.9 61.3#



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



#13

2,4,6-Tribromophenol

Concen: 10.28 ng

RT: 15.63 min Scan# 940

Delta R.T. 0.00 min

Lab File: BM001319.D

Acq: 15 May 2015 07:28

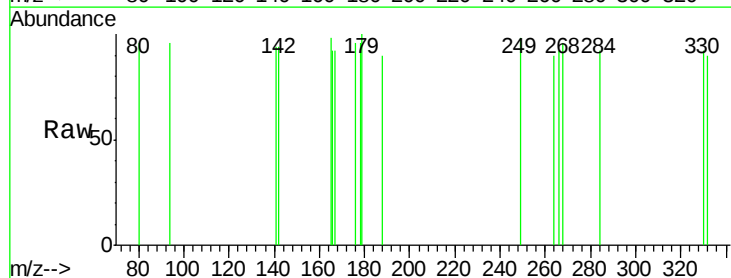
Tgt Ion:330 Resp: 6

Ion Ratio Lower Upper

330 100

332 0.0 89.0 133.4#

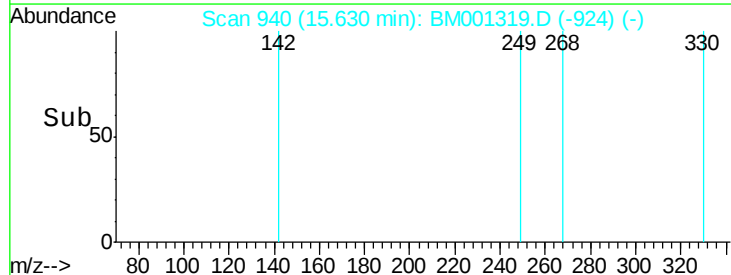
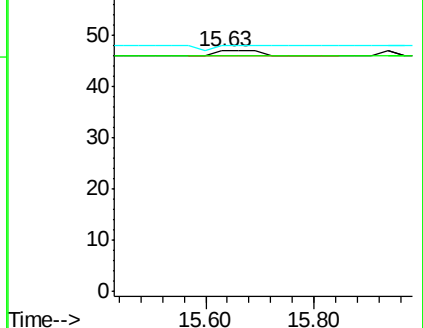
141 33.3 0.0 0.0#

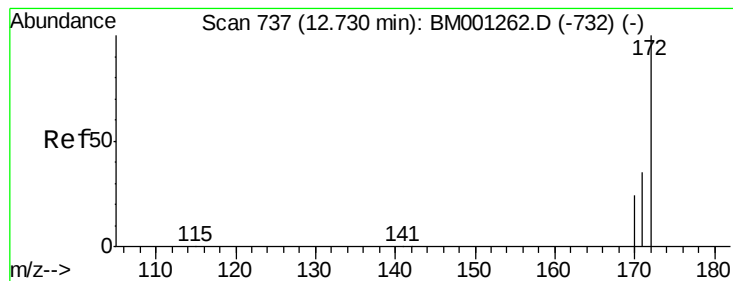


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

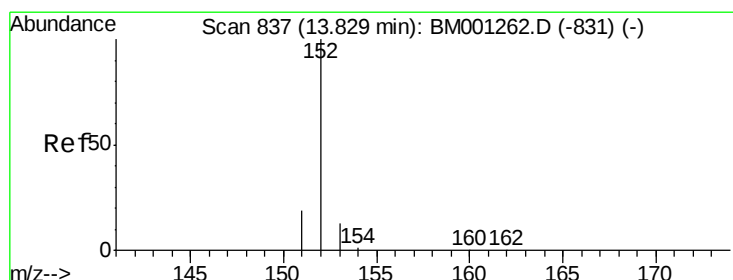
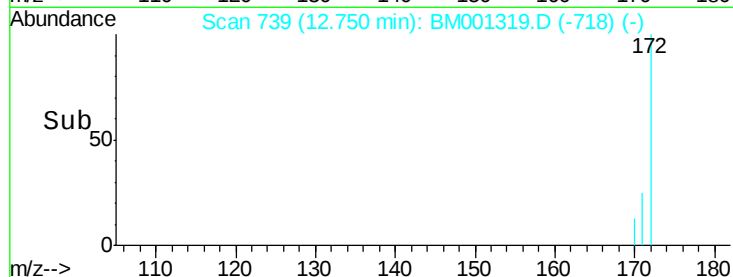
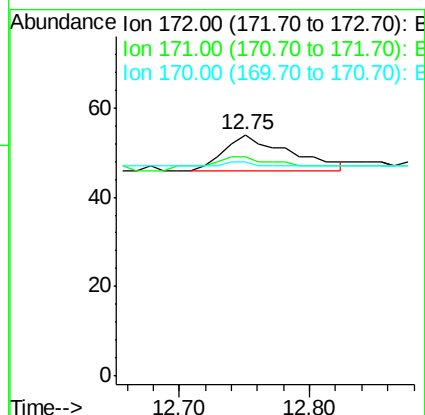
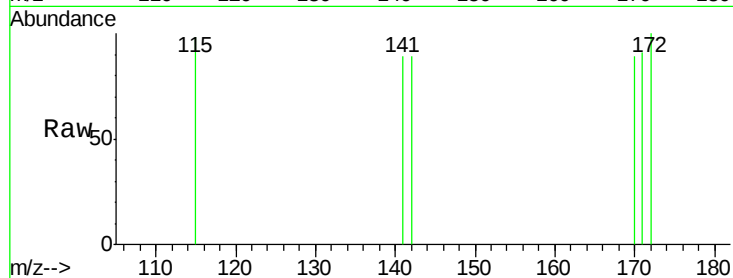




#14
2-Fluorobiphenyl
Concen: 5.12 ng
RT: 12.75 min Scan# 739
Delta R.T. 0.02 min
Lab File: BM001319.D
Acq: 15 May 2015 07:28

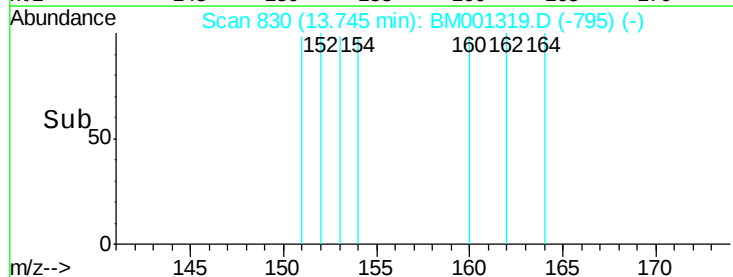
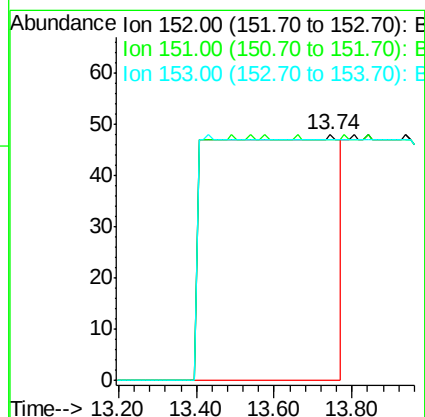
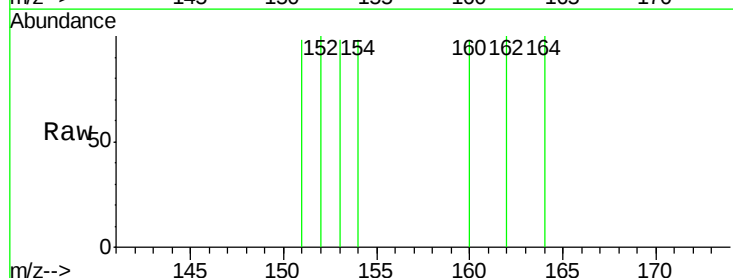
Instrument :
BNA_M
ClientSampleId :
S32-0483

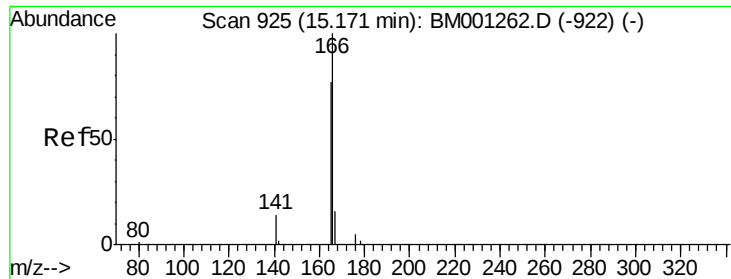
Tot Ion:172 Resp: 27
Ion Ratio Lower Upper
172 100
171 90.7 28.7 43.1#
170 88.9 19.5 29.3#



#15
Acenaphthylene
Concen: 149.75 ng
RT: 13.74 min Scan# 830
Delta R.T. -0.08 min
Lab File: BM001319.D
Acq: 15 May 2015 07:28

Tgt Ion:152 Resp: 1048
Ion Ratio Lower Upper
152 100
151 0.0 15.0 22.4#
153 0.0 10.1 15.1#

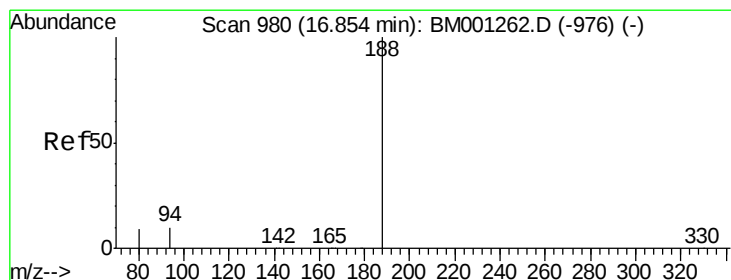
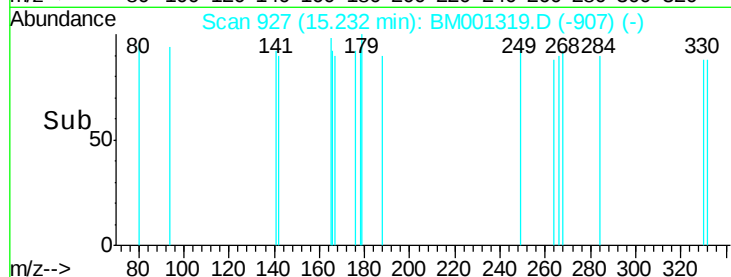
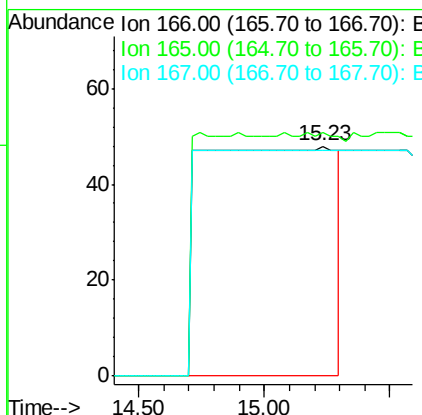
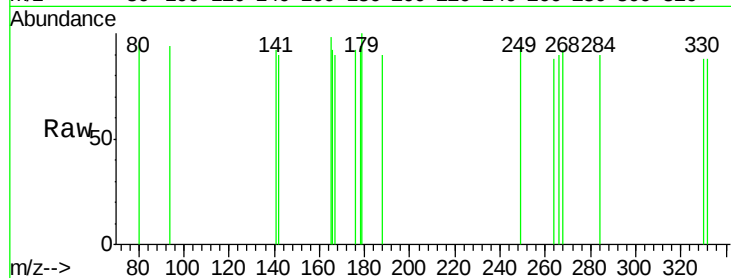




#17
 Fluorene
 Concen: 412.97 ng
 RT: 15.23 min Scan# 927
 Delta R.T. 0.06 min
 Lab File: BM001319.D
 Acq: 15 May 2015 07:28

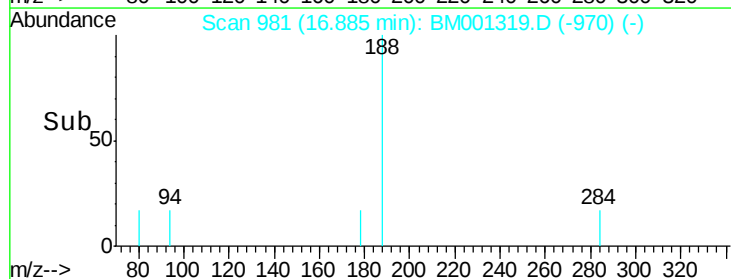
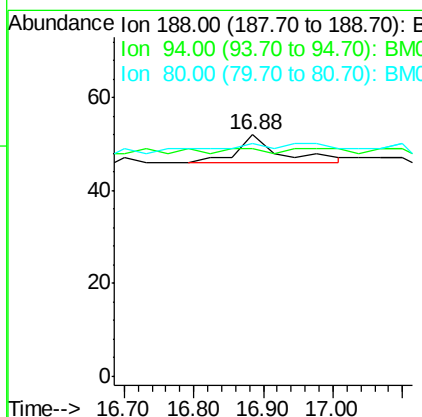
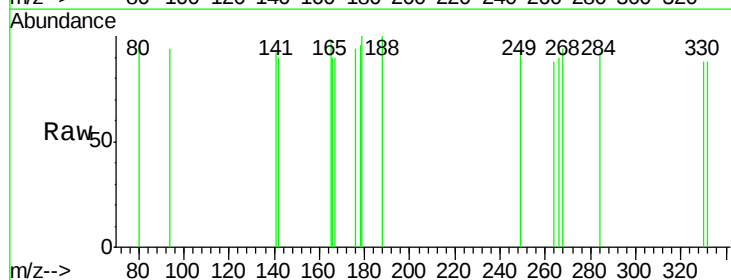
Instrument :
 BNA_M
 ClientSampleId :
 S32-0483

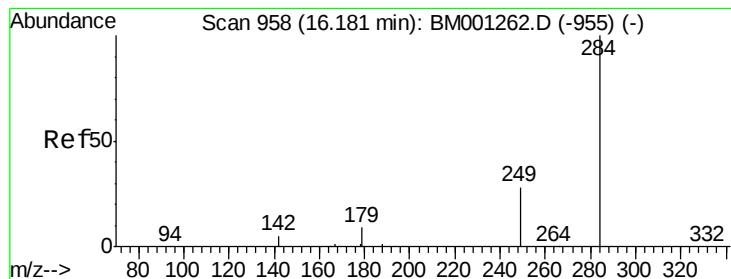
Tot Ion:166 Resp: 1676
 Ion Ratio Lower Upper
 166 100
 165 0.0 70.6 106.0#
 167 0.0 11.3 16.9#



#18
 Phenanthrene-d10
 Concen: 5.00 ng
 RT: 16.88 min Scan# 981
 Delta R.T. 0.03 min
 Lab File: BM001319.D
 Acq: 15 May 2015 07:28

Tgt Ion:188 Resp: 26
 Ion Ratio Lower Upper
 188 100
 94 94.2 7.8 11.8#
 80 96.2 7.5 11.3#





#19

Hexachlorobenzene

Concen: 5.38 ng

RT: 16.24 min Scan# 960

Delta R.T. 0.06 min

Lab File: BM001319.D

Acq: 15 May 2015 07:28

Instrument :

BNA_M

ClientSampleId :

S32-0483

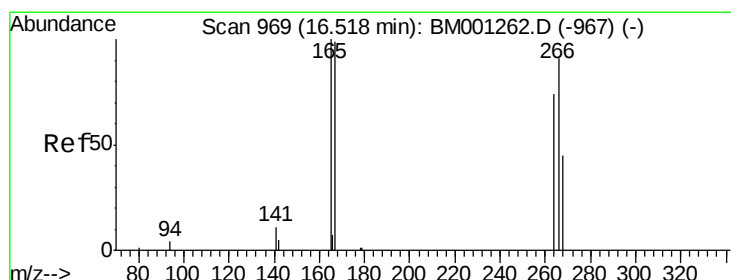
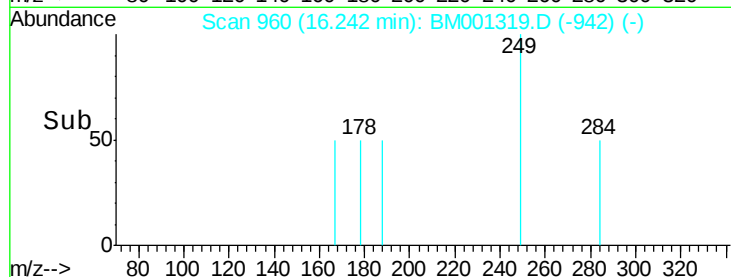
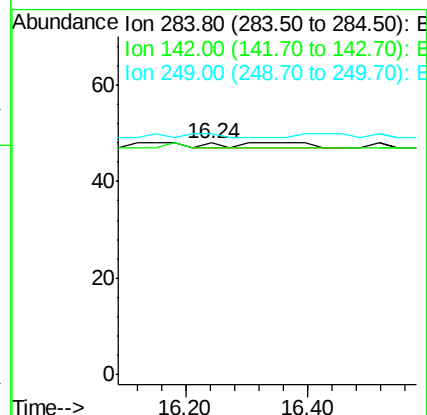
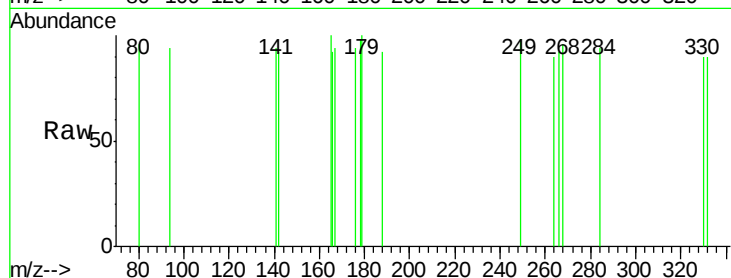
Tot Ion:284 Resp: 9

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

249 0.0 22.7 34.1#



#20

Pentachlorophenol

Concen: 4.30 ng

RT: 16.55 min Scan# 970

Delta R.T. 0.03 min

Lab File: BM001319.D

Acq: 15 May 2015 07:28

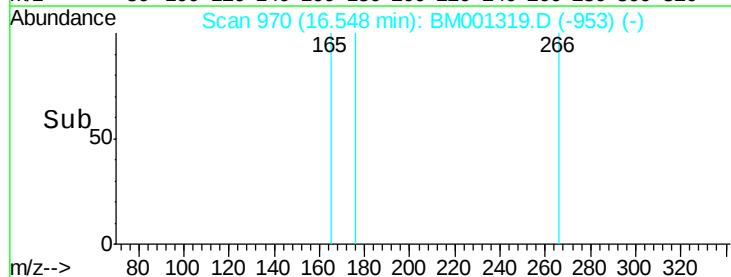
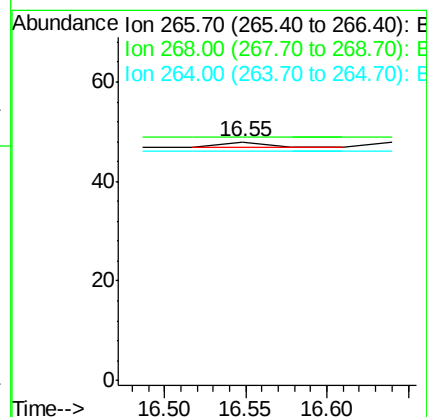
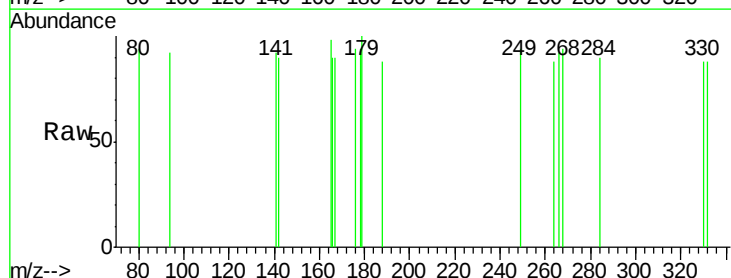
Tgt Ion:266 Resp: 2

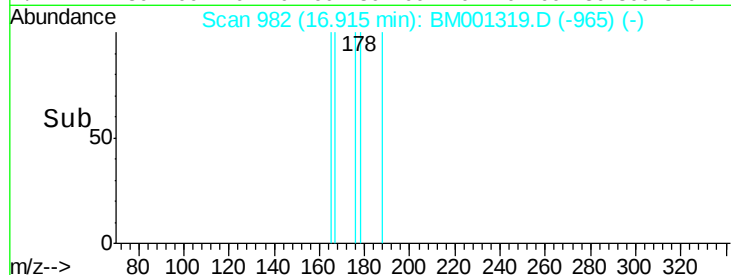
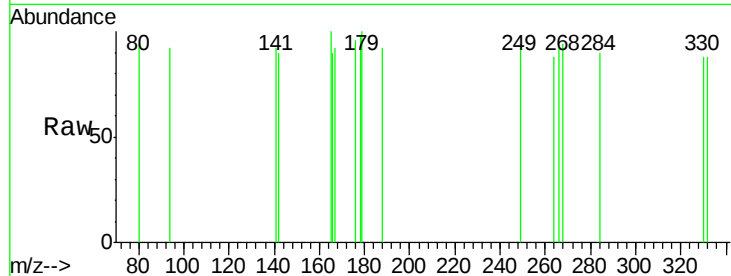
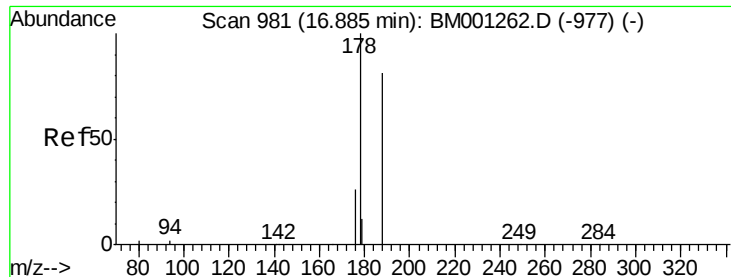
Ion Ratio Lower Upper

266 100

268 102.1 49.4 74.0#

264 95.8 67.8 101.6





#21

Phenanthrene

Concen: 2.78 ng

RT: 16.92 min Scan# 982

Delta R.T. 0.03 min

Lab File: BM001319.D

Acq: 15 May 2015 07:28

Instrument :

BNA_M

ClientSampleId :

S32-0483

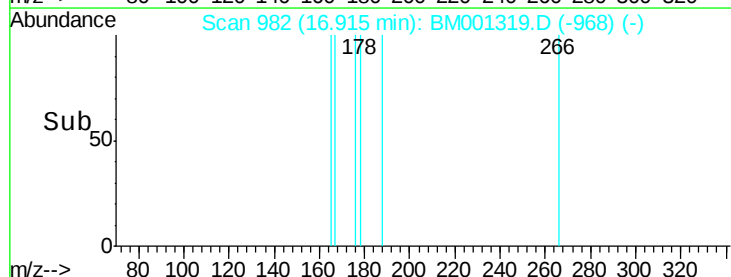
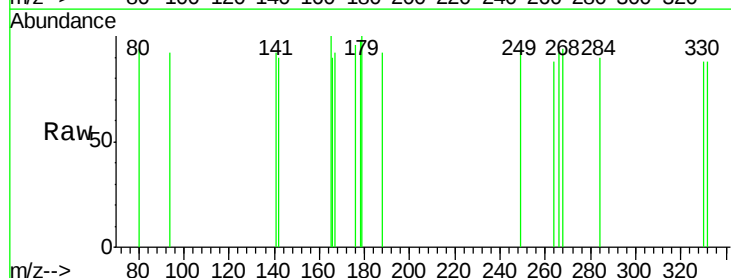
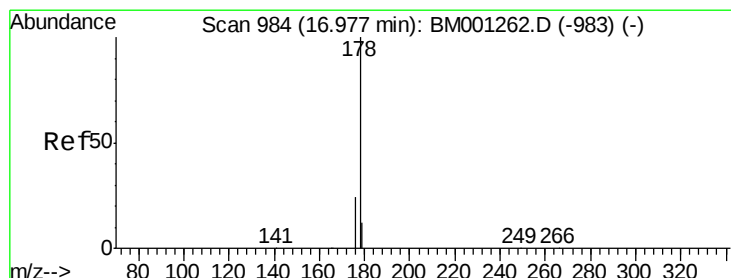
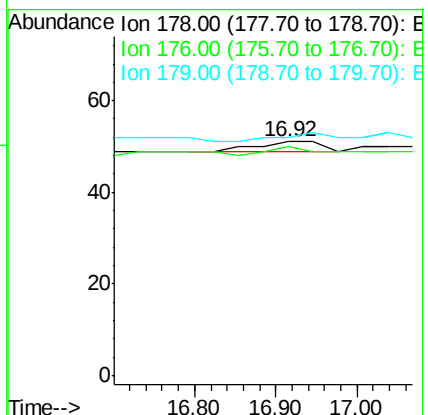
Tot Ion:178 Resp: 11

Ion Ratio Lower Upper

178 100

176 200.0 15.9 23.9#

179 0.0 0.0 0.0



#22

Anthracene

Concen: 2.86 ng

RT: 16.92 min Scan# 982

Delta R.T. -0.06 min

Lab File: BM001319.D

Acq: 15 May 2015 07:28

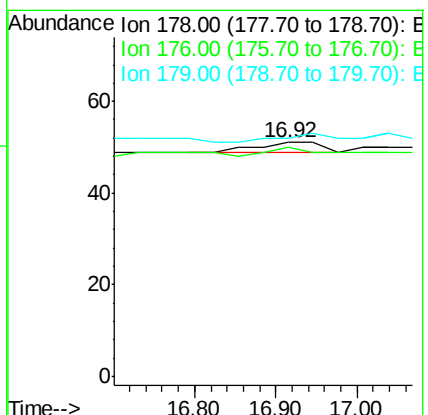
Tgt Ion:178 Resp: 11

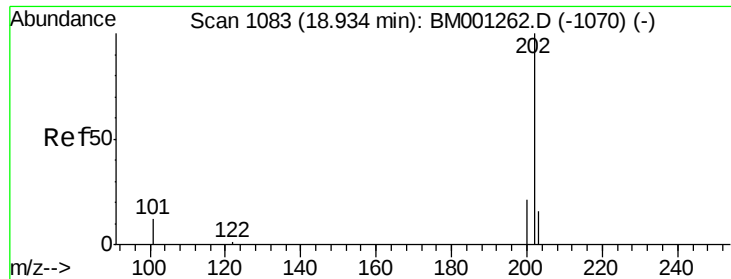
Ion Ratio Lower Upper

178 100

176 200.0 15.3 22.9#

179 0.0 0.0 0.0





#23

Fluoranthene

Concen: 2.74 ng

RT: 18.95 min Scan# 1084

Delta R.T. 0.01 min

Lab File: BM001319.D

Acq: 15 May 2015 07:28

Instrument :

BNA_M

ClientSampleId :

S32-0483

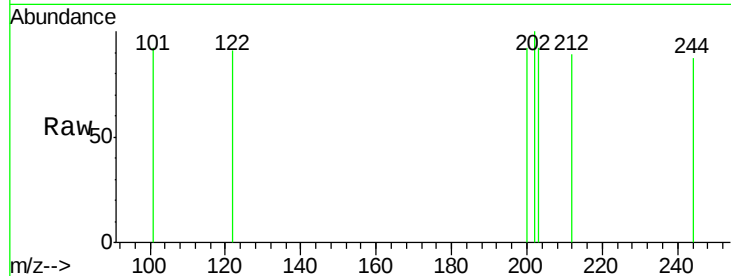
Tot Ion:202 Resp: 17

Ion Ratio Lower Upper

202 100

101 29.4 9.1 13.7#

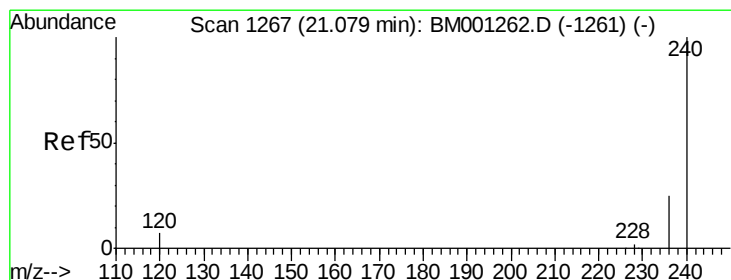
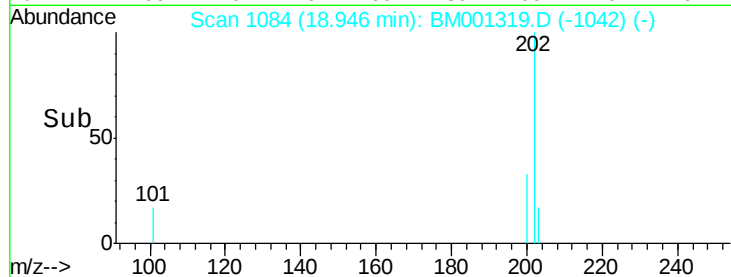
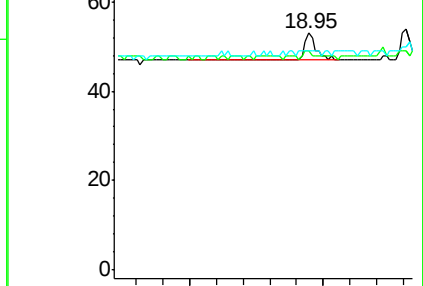
203 0.0 13.8 20.6#



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



#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.08 min Scan# 1267

Delta R.T. -0.00 min

Lab File: BM001319.D

Acq: 15 May 2015 07:28

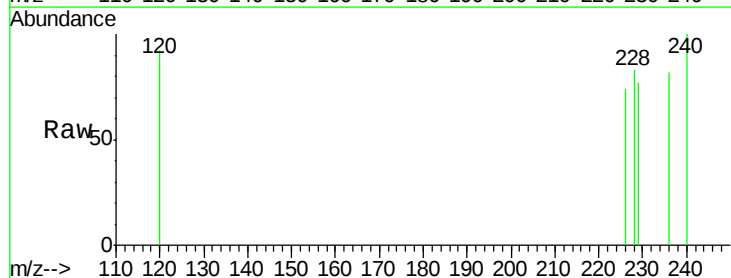
Tgt Ion:240 Resp: 61

Ion Ratio Lower Upper

240 100

120 92.4 5.5 8.3#

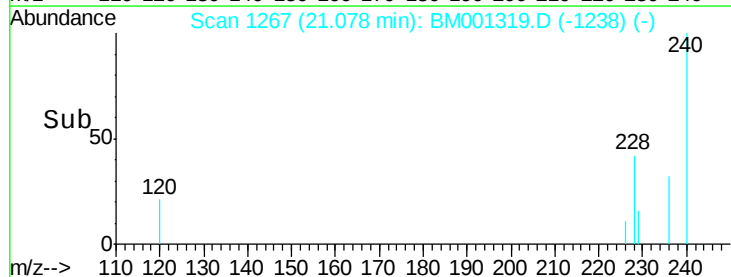
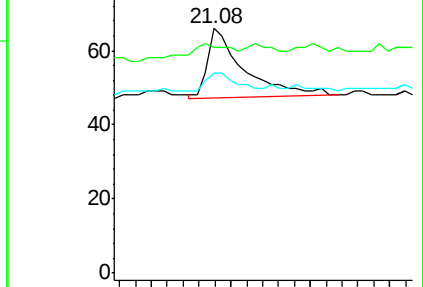
236 81.8 20.4 30.6#

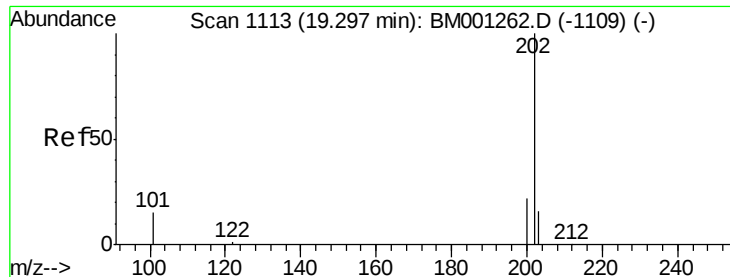


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

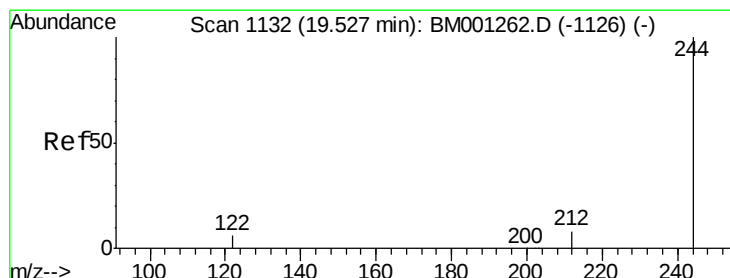
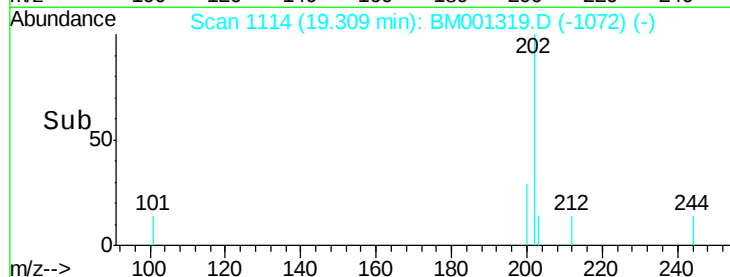
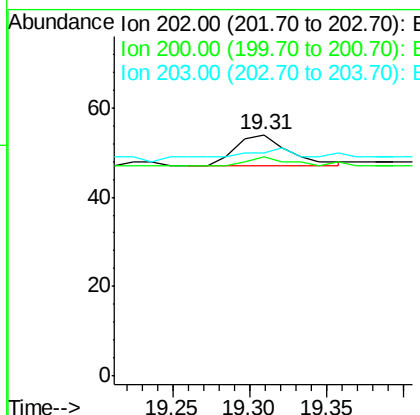
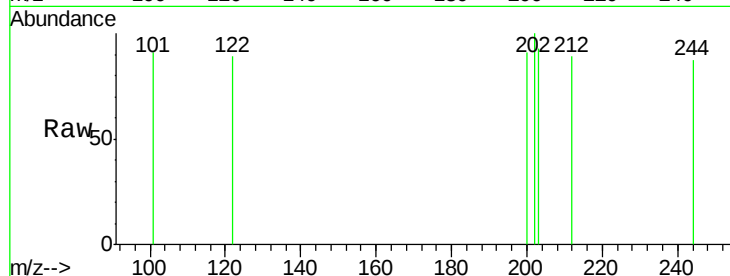




#25
Pvrene
Concen: 0.90 ng
RT: 19.31 min Scan# 1114
Delta R.T. 0.01 min
Lab File: BM001319.D
Acq: 15 May 2015 07:28

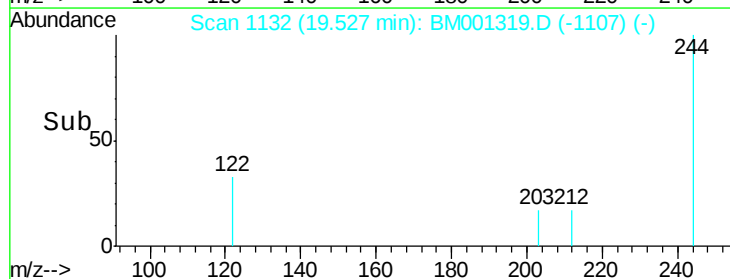
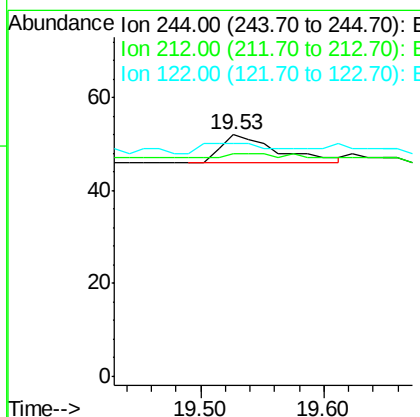
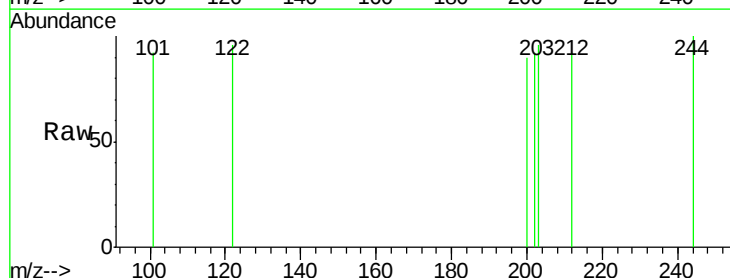
Instrument :
BNA_M
ClientSampleId :
S32-0483

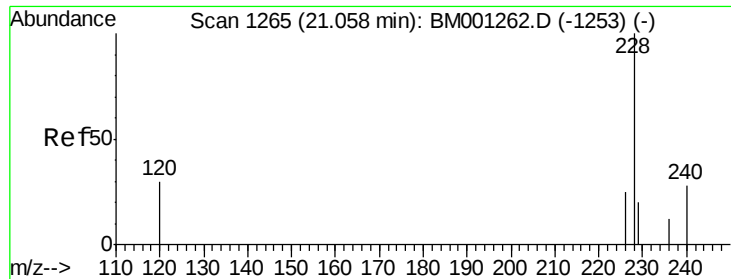
Tot Ion:202 Resp: 17
Ion Ratio Lower Upper
202 100
200 23.5 16.4 24.6
203 52.9 13.9 20.9#



#26
Terphenyl-d14
Concen: 2.32 ng
RT: 19.53 min Scan# 1132
Delta R.T. -0.00 min
Lab File: BM001319.D
Acq: 15 May 2015 07:28

Tgt Ion:244 Resp: 19
Ion Ratio Lower Upper
244 100
212 92.3 7.2 10.8#
122 96.2 5.6 8.4#





#27

Benzo(a)anthracene

Concen: 1.33 ng

RT: 21.06 min Scan# 1265

Delta R.T. -0.00 min

Lab File: BM001319.D

Acq: 15 May 2015 07:28

Instrument :

BNA_M

ClientSampleId :

S32-0483

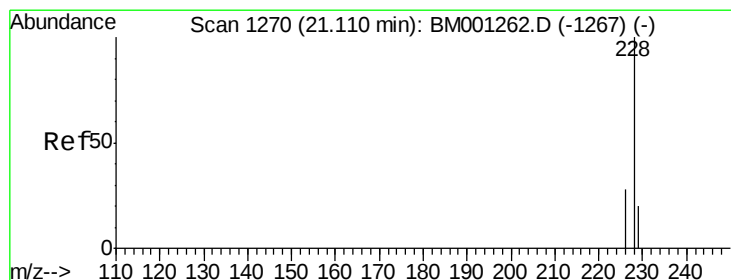
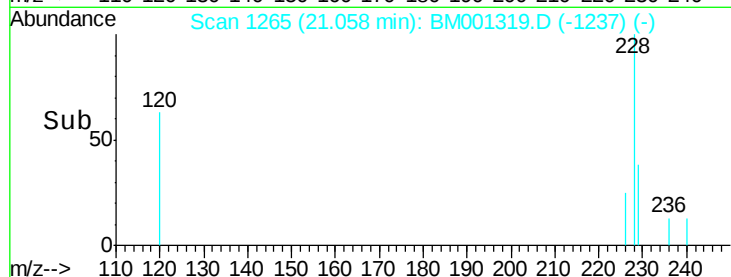
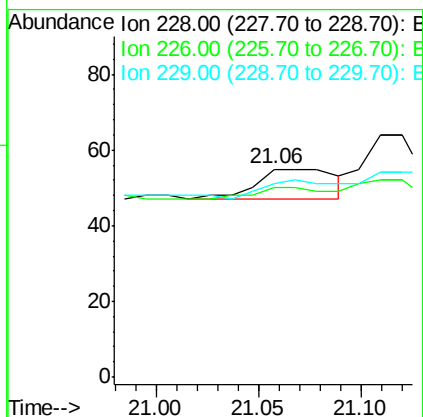
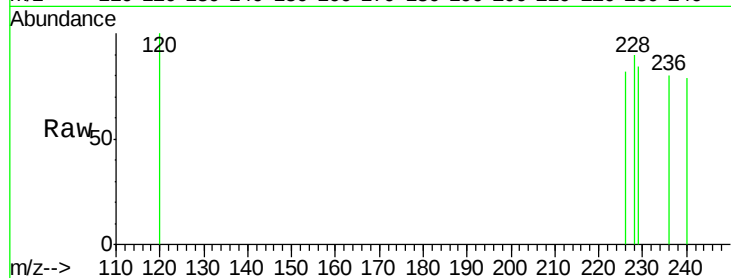
Tot Ion:228 Resp: 22

Ion Ratio Lower Upper

228 100

226 90.9 20.5 30.7#

229 92.7 16.2 24.4#



#28

Chrysene

Concen: 3.93 ng

RT: 21.11 min Scan# 1270

Delta R.T. -0.00 min

Lab File: BM001319.D

Acq: 15 May 2015 07:28

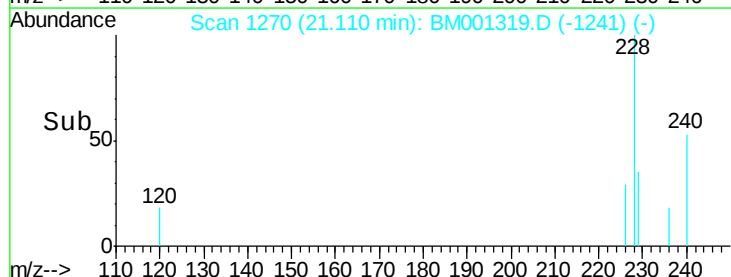
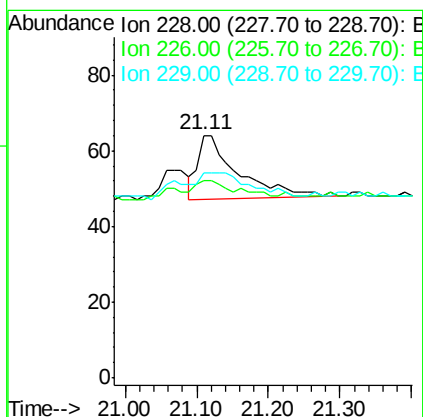
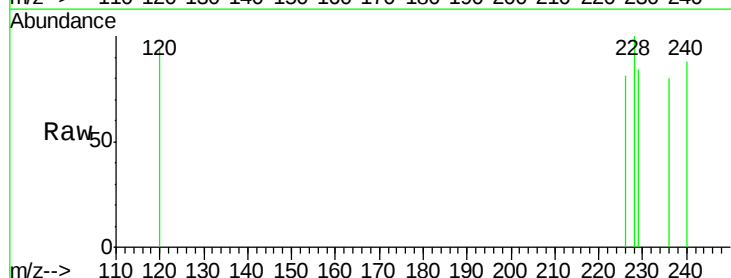
Tgt Ion:228 Resp: 66

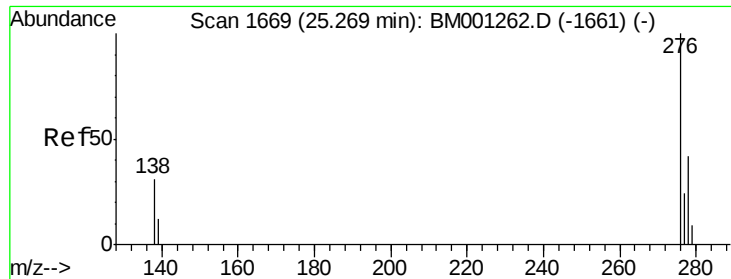
Ion Ratio Lower Upper

228 100

226 81.3 22.2 33.2#

229 84.4 16.5 24.7#





#29

Indeno(1,2,3-cd)pyrene

Concen: 3.28 ng

RT: 25.27 min Scan# 1669

Delta R.T. -0.00 min

Lab File: BM001319.D

Acq: 15 May 2015 07:28

Instrument :

BNA_M

ClientSampleId :

S32-0483

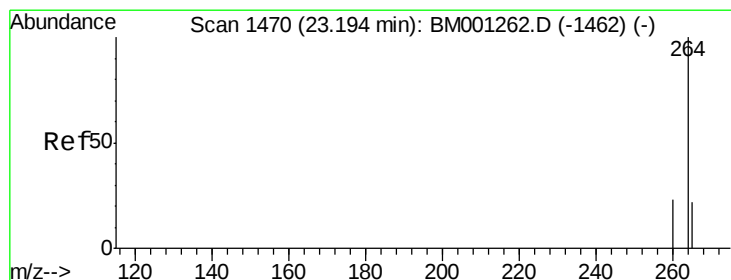
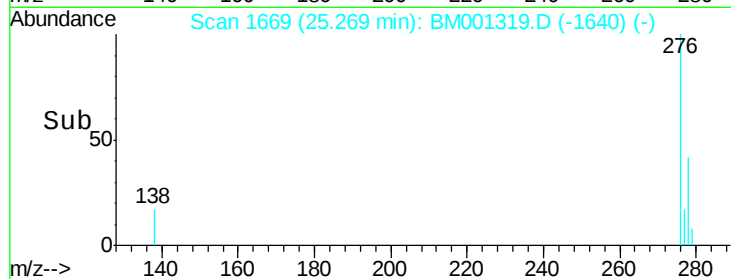
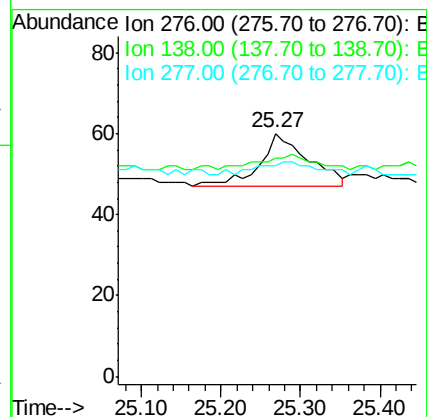
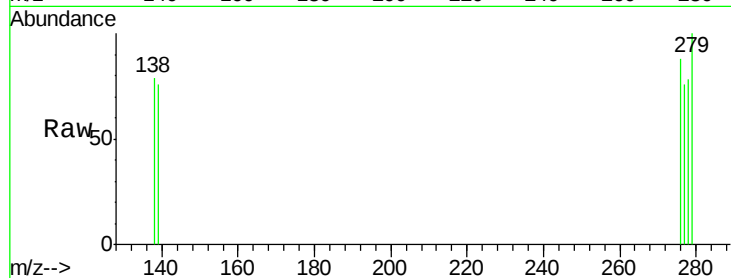
Tot Ion:276 Resp: 56

Ion Ratio Lower Upper

276 100

138 0.0 24.9 37.3#

277 25.0 19.5 29.3



#30

Perylene-d12

Concen: 5.00 ng

RT: 23.19 min Scan# 1470

Delta R.T. -0.00 min

Lab File: BM001319.D

Acq: 15 May 2015 07:28

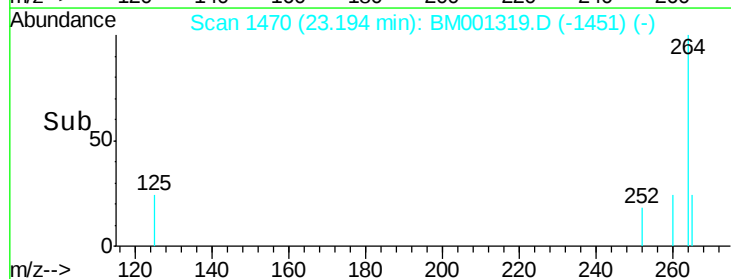
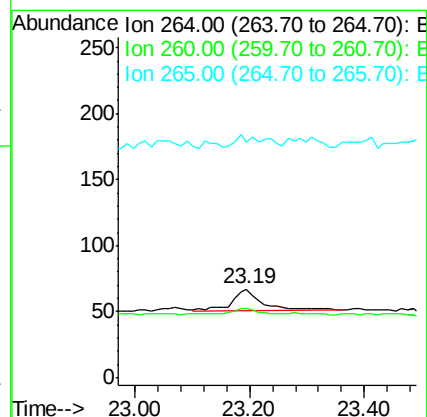
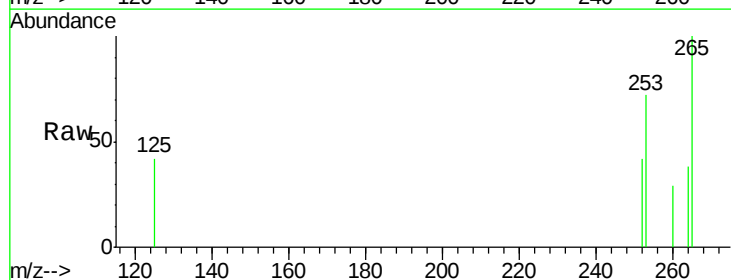
Tgt Ion:264 Resp: 62

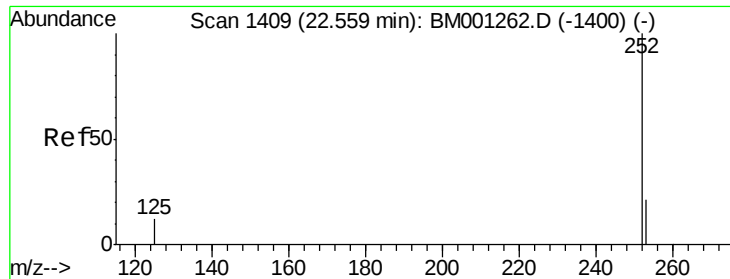
Ion Ratio Lower Upper

264 100

260 77.6 18.9 28.3#

265 265.7 18.1 27.1#





#31

Benzo(b)fluoranthene

Concen: 1.98 ng

RT: 22.56 min Scan# 1409

Delta R.T. -0.00 min

Lab File: BM001319.D

Acq: 15 May 2015 07:28

Instrument :

BNA_M

ClientSampleId :

S32-0483

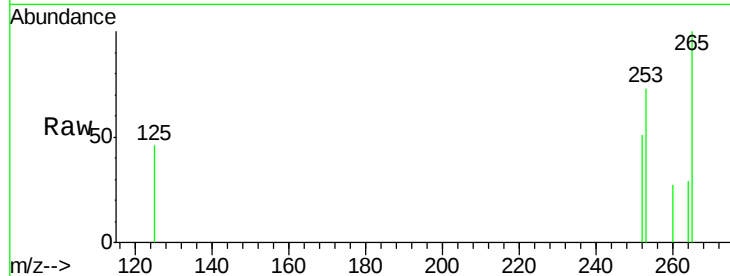
Tot Ion:252 Resp: 36

Ion Ratio Lower Upper

252 100

253 143.7 17.8 26.6#

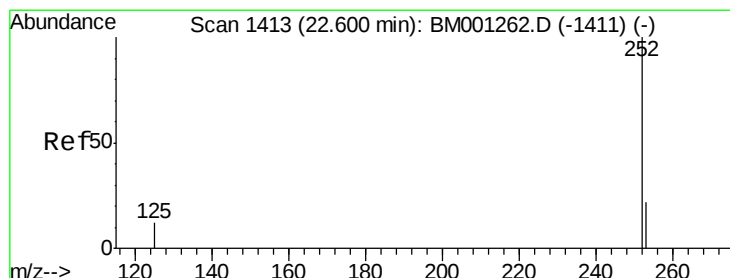
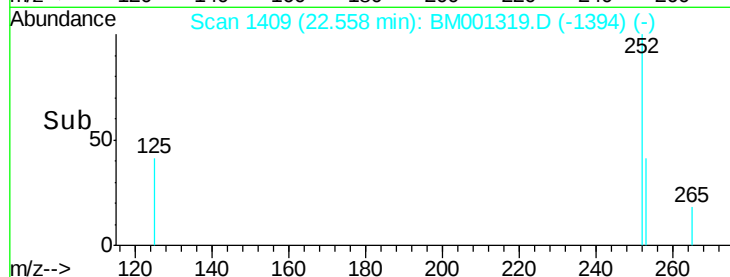
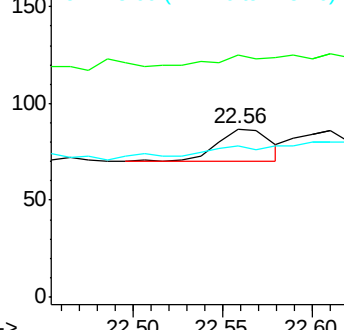
125 89.7 10.4 15.6#



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



#32

Benzo(k)fluoranthene

Concen: 2.26 ng

RT: 22.61 min Scan# 1414

Delta R.T. 0.01 min

Lab File: BM001319.D

Acq: 15 May 2015 07:28

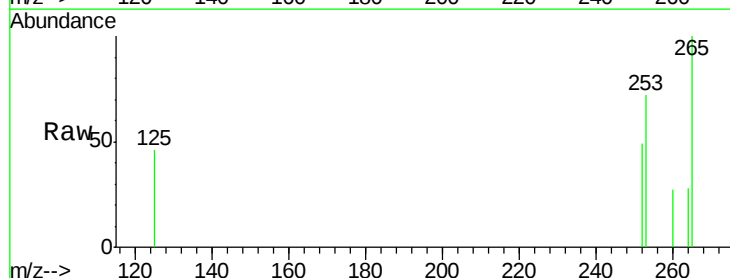
Tgt Ion:252 Resp: 39

Ion Ratio Lower Upper

252 100

253 146.5 18.6 27.8#

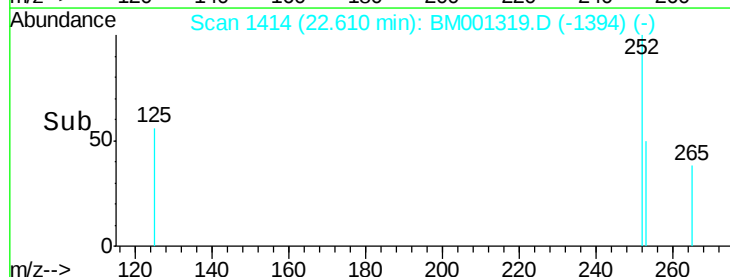
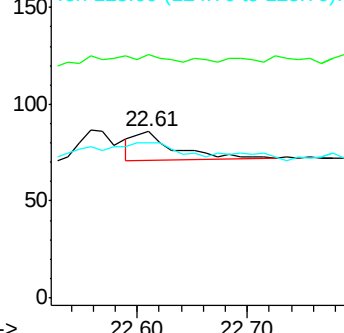
125 93.0 10.2 15.4#

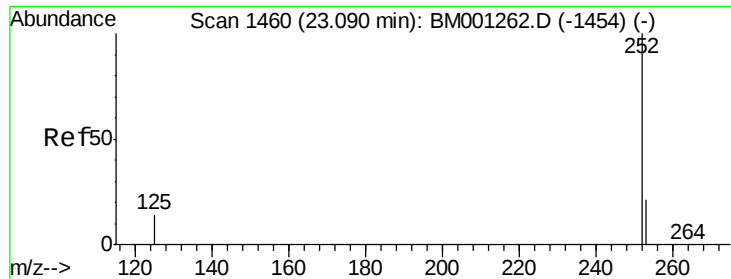


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#33

Benzo(a)pyrene

Concen: 1.91 ng

RT: 23.10 min Scan# 1461

Delta R.T. 0.01 min

Lab File: BM001319.D

Acq: 15 May 2015 07:28

Instrument :

BNA_M

ClientSampleId :

S32-0483

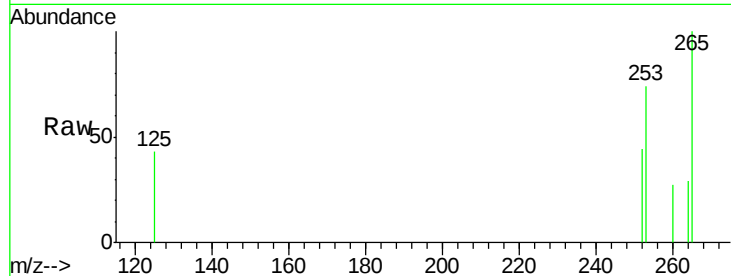
Tot Ion:252 Resp: 30

Ion Ratio Lower Upper

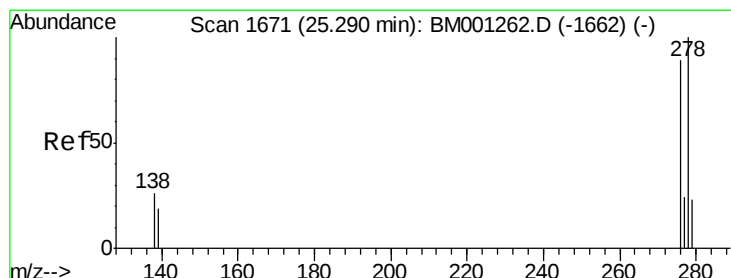
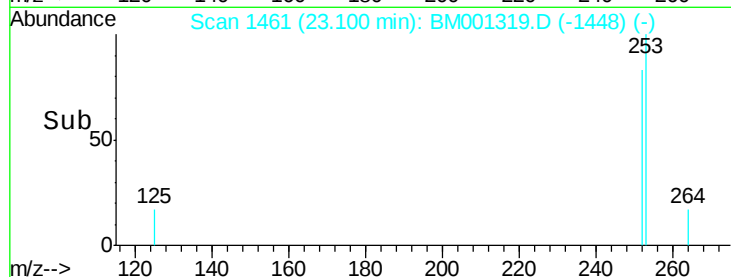
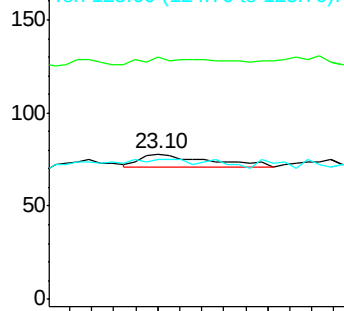
252 100

253 166.7 18.3 27.5#

125 96.2 12.2 18.2#



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



#34

Dibenzo(a,h)anthracene

Concen: 2.84 ng

RT: 25.29 min Scan# 1671

Delta R.T. -0.00 min

Lab File: BM001319.D

Acq: 15 May 2015 07:28

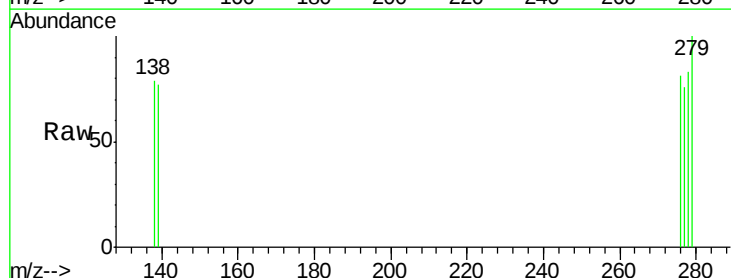
Tgt Ion:278 Resp: 42

Ion Ratio Lower Upper

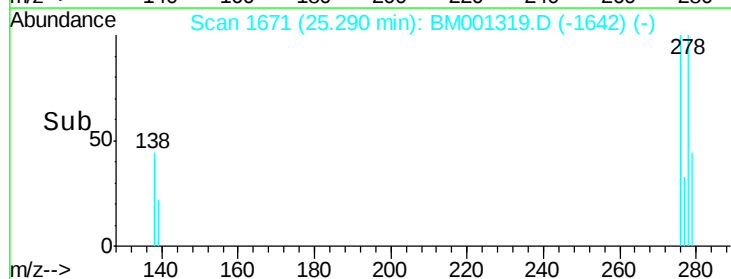
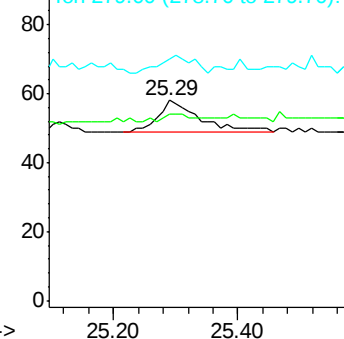
278 100

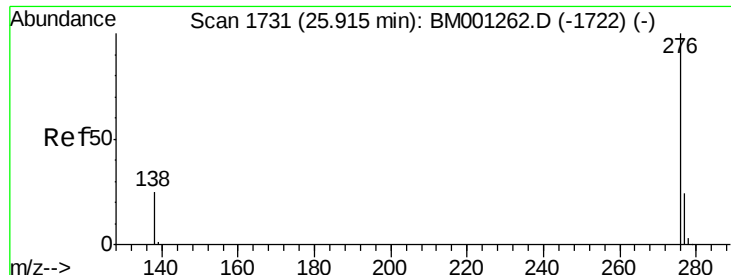
139 93.1 16.6 24.8#

279 120.7 20.0 30.0#



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





#35

Benzo(a,h,i)perylene

Concen: 2.77 ng

RT: 25.90 min Scan# 1730

Delta R.T. -0.01 min

Lab File: BM001319.D

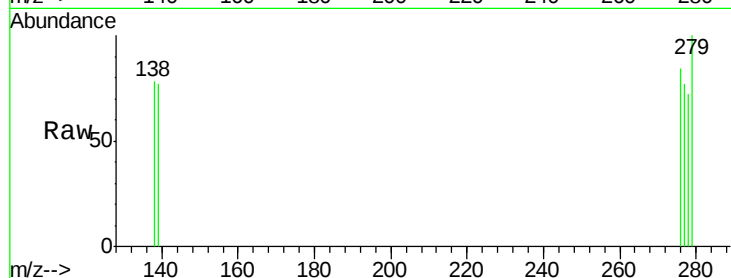
Acq: 15 May 2015 07:28

Instrument :

BNA_M

ClientSampleId :

S32-0483



Tot Ion: 276 Resp: 45

Ion Ratio Lower Upper

276 100

277 91.4 19.9 29.9#

138 93.1 21.0 31.4#

