

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM112015\
 Data File : BM003228.D
 Acq On : 20 Nov 2015 19:20
 Operator : UM/IZ
 Sample : G4323-31DL 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4J60DL

Quant Time: Nov 21 04:26:11 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM111815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 21 04:24:04 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.74	152	13437	0.40	ng/ul	0.00
4) Naphthalene-d8	10.53	136	51247	0.40	ng/ul	0.00
8) Acenaphthene-d10	14.38	164	25921	0.40	ng/ul	0.00
12) Phenanthrene-d10	17.12	188	54431	0.40	ng/ul	0.00
18) Chrysene-d12	21.33	240	54395	0.40	ng/ul	0.00
22) Perylene-d12	23.58	264	53483	0.40	ng/ul	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) 1,4-Dioxane-d8	3.20	96	7773	0.54	ng/uL	0.00
6) 2-Methylnaphthalene-d10	12.12	152	2082	0.03	ng/ul	0.00
16) Fluoranthene-d10	19.17	212	3673	0.03	ng/ul	0.00

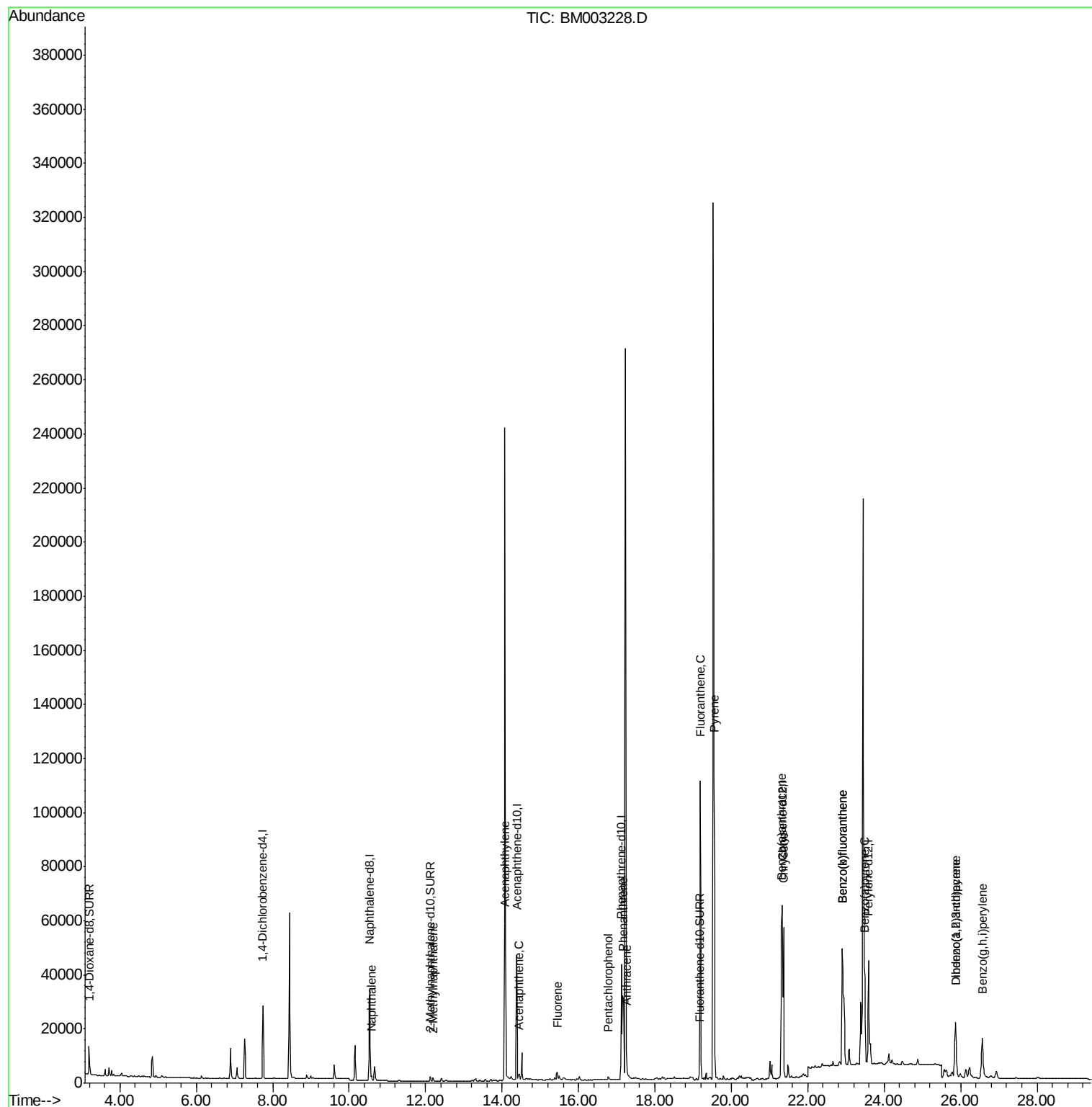
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Naphthalene	10.58	128	2178	0.02	ng/ul#	79
7) 2-Methylnaphthalene	12.19	142	877	0.01	ng/ul#	100
9) Acenaphthylene	14.09	152	5225	0.05	ng/ul#	93
10) Acenaphthene	14.45	153	1720	0.02	ng/ul#	94
11) Fluorene	15.44	166	3551	0.04	ng/ul#	91
13) Pentachlorophenol	16.78	266	1013	0.08	ng/ul	96
14) Phenanthrene	17.16	178	48045	0.30	ng/ul#	88
15) Anthracene	17.26	178	8951	0.07	ng/ul	94
17) Fluoranthene	19.19	202	104710	0.60	ng/ul	99
19) Pyrene	19.55	202	96895	0.52	ng/ul	99
20) Benzo(a)anthracene	21.31	228	44991	0.29	ng/ul	95
21) Chrysene	21.36	228	52030	0.29	ng/ul	97
23) Benzo(b)fluoranthene	22.91	252	95751	0.47	ng/ul	93
24) Benzo(k)fluoranthene	22.91	252	95751	0.50	ng/ul#	95
25) Benzo(a)pyrene	23.49	252	45638	0.25	ng/ul	95
26) Indeno(1,2,3-cd)pyrene	25.87	276	33281	0.15	ng/ul#	93
27) Dibenzo(a,h)anthracene	25.88	278	8545	0.05	ng/ul#	69
28) Benzo(g,h,i)perylene	26.57	276	31492	0.17	ng/ul	97

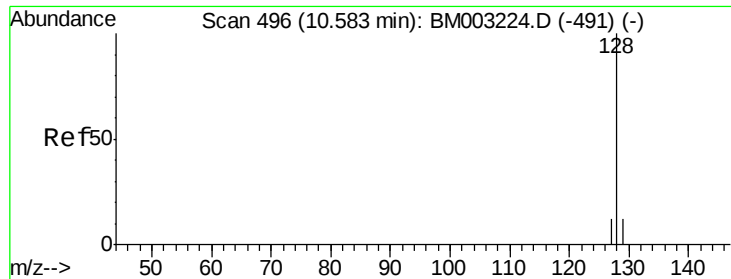
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Naphthalene

Concen: 0.02 ng/ul

RT: 10.58 min Scan# 496

Delta R.T. -0.00 min

Lab File: BM003228.D

Acq: 20 Nov 2015 19:20

Instrument :

BNA_M

ClientSampleId :

A4J60DL

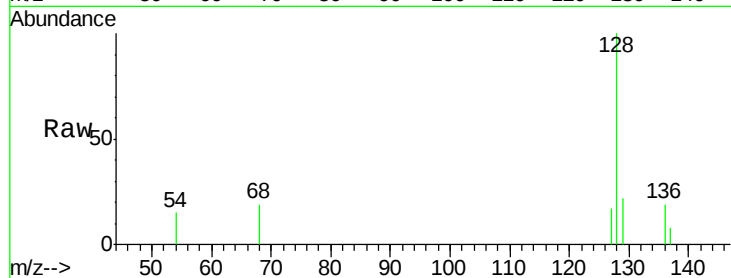
Tgt Ion:128 Resp: 2178

Ion Ratio Lower Upper

128 100

129 22.4 9.0 13.6#

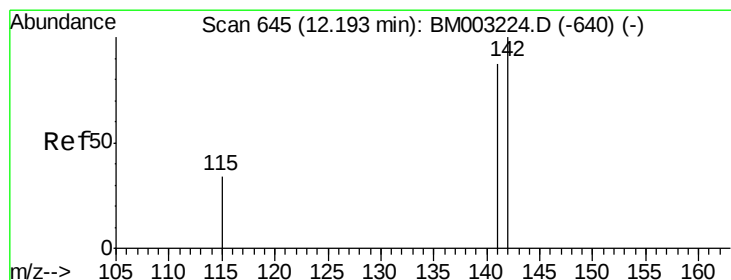
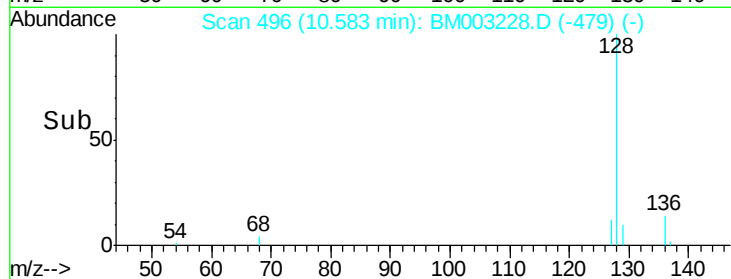
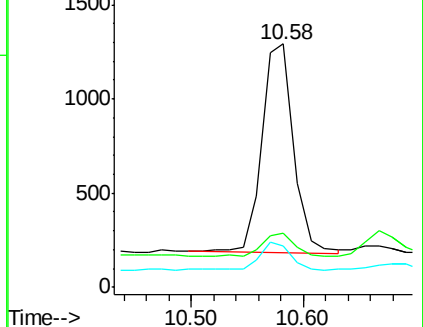
127 17.2 9.6 14.4#



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: 0.01 ng/ul

RT: 12.19 min Scan# 645

Delta R.T. -0.00 min

Lab File: BM003228.D

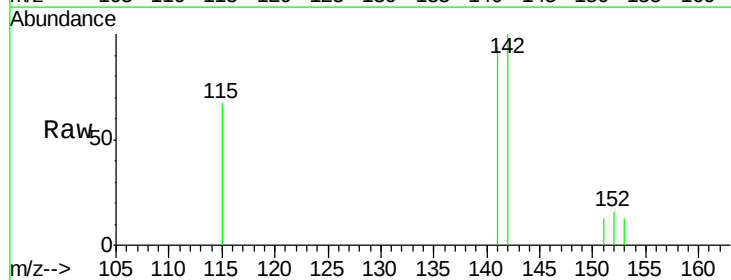
Acq: 20 Nov 2015 19:20

Tgt Ion:142 Resp: 877

Ion Ratio Lower Upper

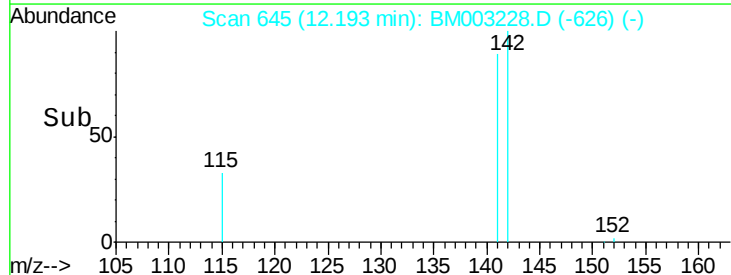
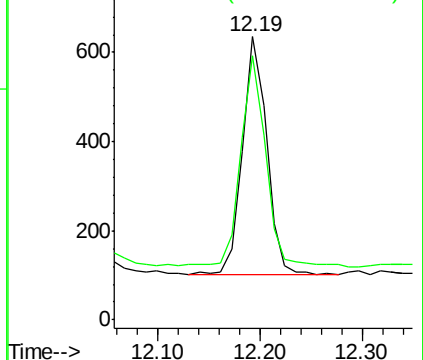
142 100

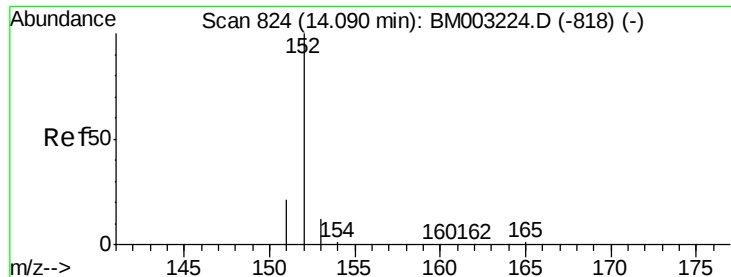
141 92.2 0.0 0.0#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#9

Acenaphthylene

Concen: 0.05 ng/ul

RT: 14.09 min Scan# 824

Delta R.T. -0.00 min

Lab File: BM003228.D

Acq: 20 Nov 2015 19:20

Instrument :

BNA_M

ClientSampleId :

A4J60DL

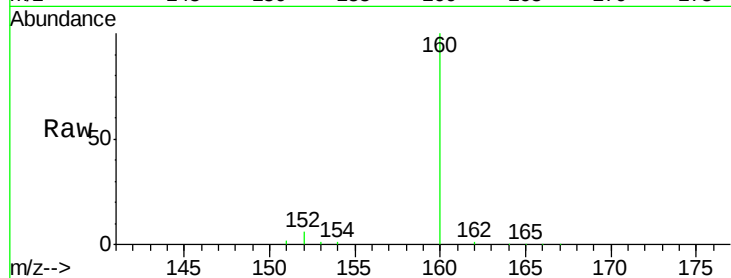
Tgt Ion:152 Resp: 5225

Ion Ratio Lower Upper

152 100

151 24.4 17.6 26.4

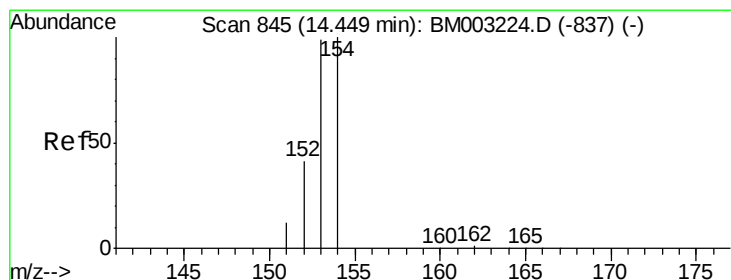
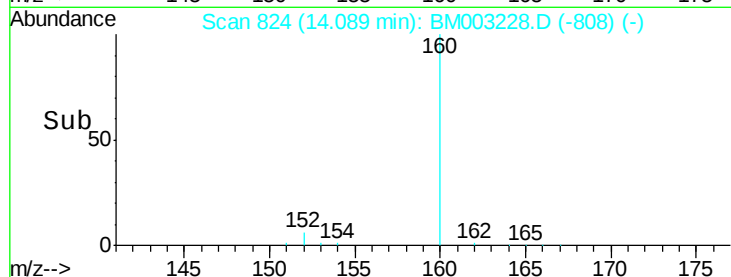
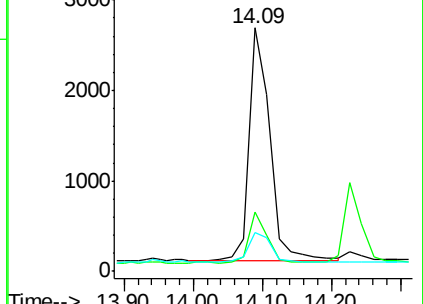
153 16.1 9.7 14.5#



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



#10

Acenaphthene

Concen: 0.02 ng/ul

RT: 14.45 min Scan# 845

Delta R.T. -0.00 min

Lab File: BM003228.D

Acq: 20 Nov 2015 19:20

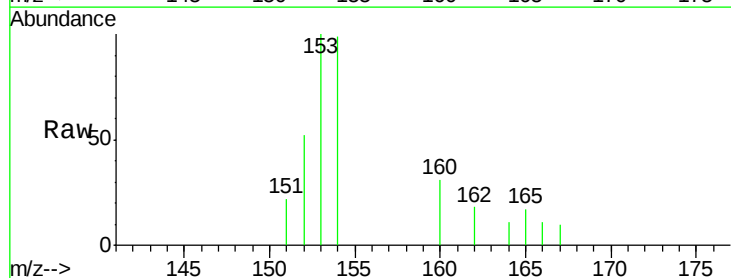
Tgt Ion:153 Resp: 1720

Ion Ratio Lower Upper

153 100

152 52.0 33.9 50.9#

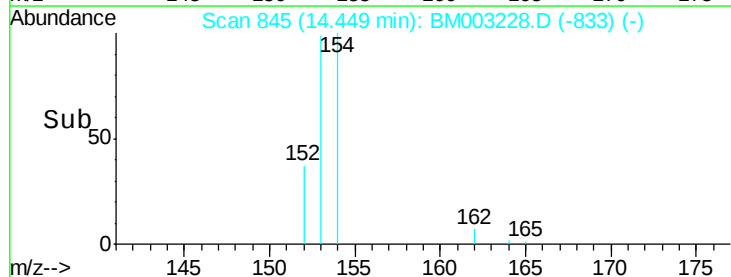
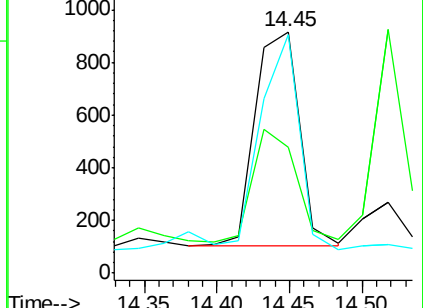
154 98.7 80.6 121.0

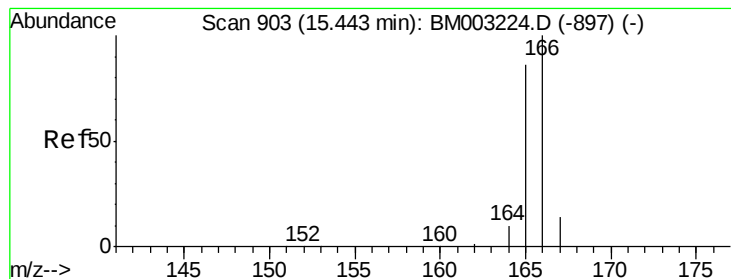


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#11

Fluorene

Concen: 0.04 ng/ul

RT: 15.44 min Scan# 903

Delta R.T. -0.00 min

Lab File: BM003228.D

Acq: 20 Nov 2015 19:20

Instrument :

BNA_M

ClientSampleId :

A4J60DL

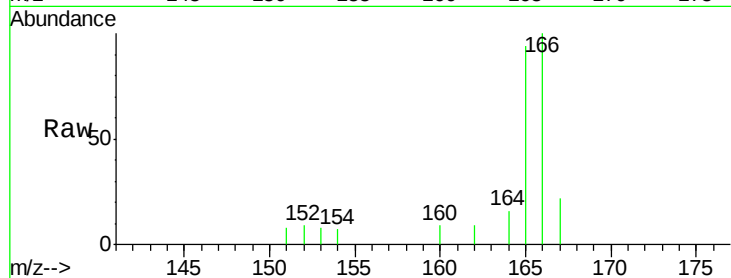
Tgt Ion:166 Resp: 3551

Ion Ratio Lower Upper

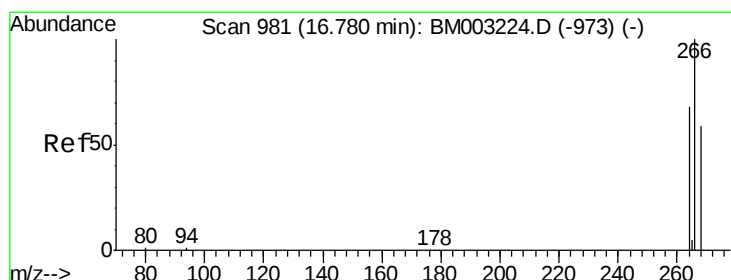
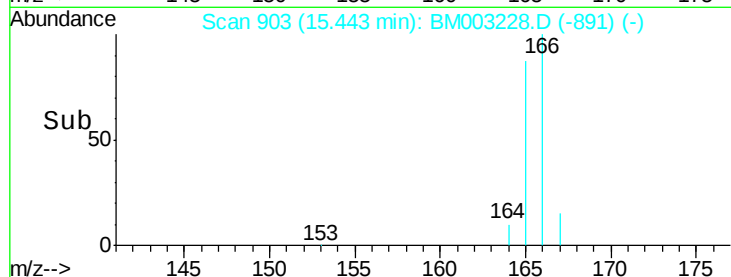
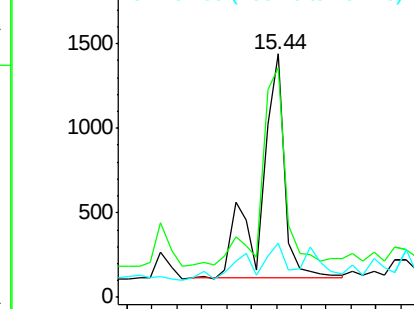
166 100

165 94.0 69.6 104.4

167 22.1 11.9 17.9#



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

Pentachlorophenol

Concen: 0.08 ng/ul

RT: 16.78 min Scan# 981

Delta R.T. -0.00 min

Lab File: BM003228.D

Acq: 20 Nov 2015 19:20

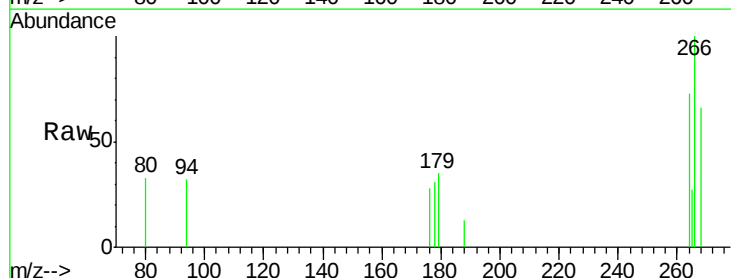
Tgt Ion:266 Resp: 1013

Ion Ratio Lower Upper

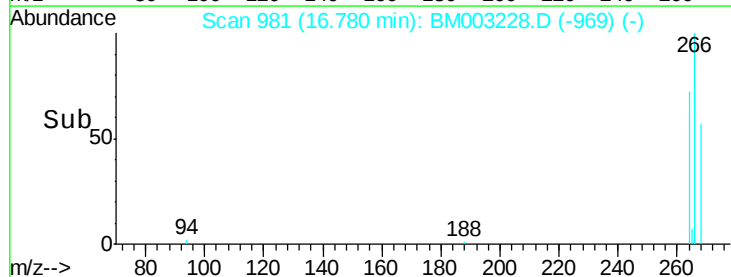
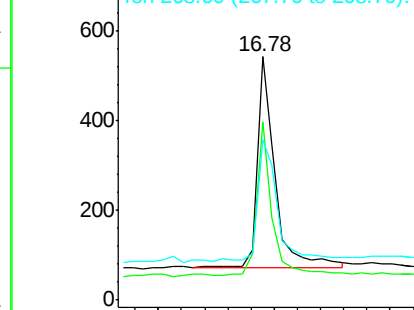
266 100

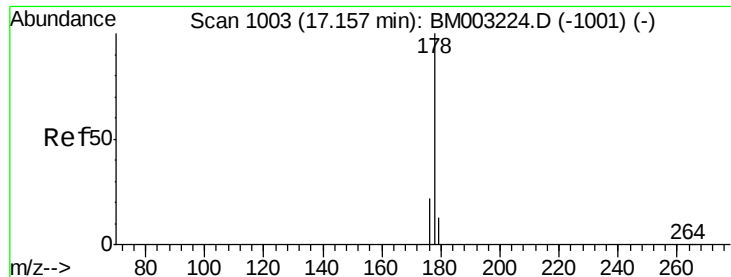
264 61.3 51.8 77.8

268 61.2 46.8 70.2



Abundance Ion 266.00 (265.70 to 266.70): E
Ion 264.00 (263.70 to 264.70): E
Ion 268.00 (267.70 to 268.70): E





#14

Phenanthrene

Concen: 0.30 ng/ul

RT: 17.16 min Scan# 1003

Delta R.T. -0.00 min

Lab File: BM003228.D

Acq: 20 Nov 2015 19:20

Instrument :

BNA_M

ClientSampleId :

A4J60DL

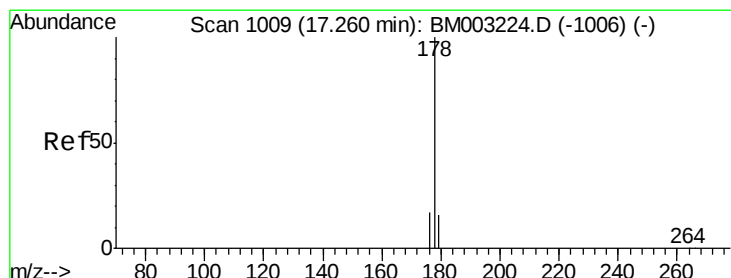
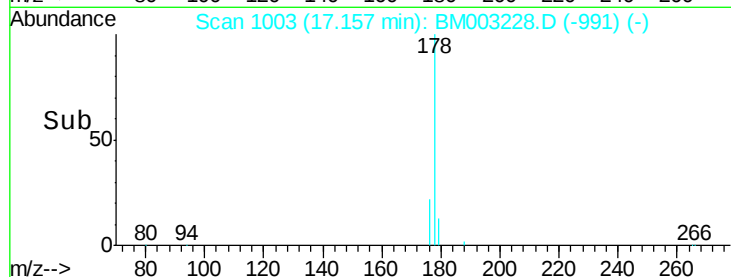
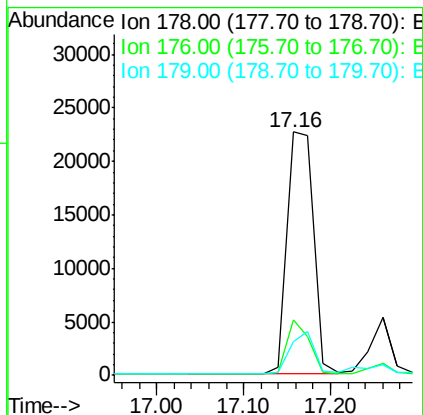
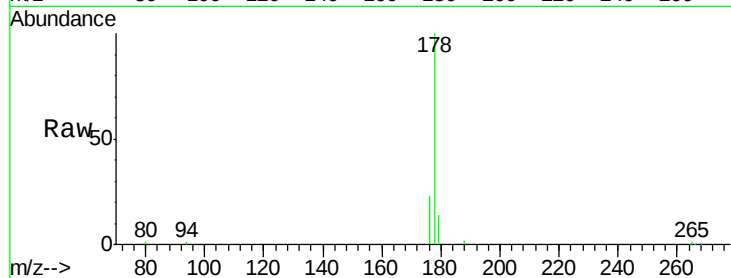
Tgt Ion:178 Resp: 48045

Ion Ratio Lower Upper

178 100

176 22.5 13.0 19.4#

179 13.7 14.2 21.2#



#15

Anthracene

Concen: 0.07 ng/ul

RT: 17.26 min Scan# 1009

Delta R.T. -0.00 min

Lab File: BM003228.D

Acq: 20 Nov 2015 19:20

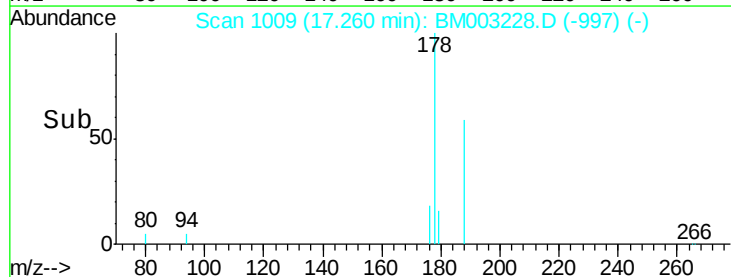
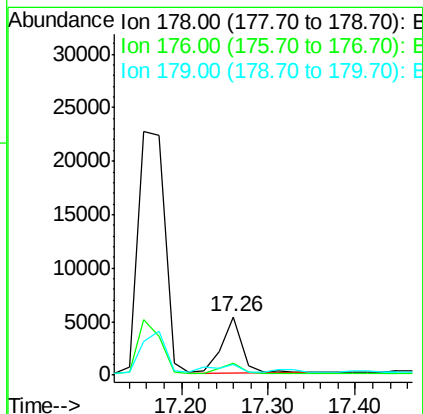
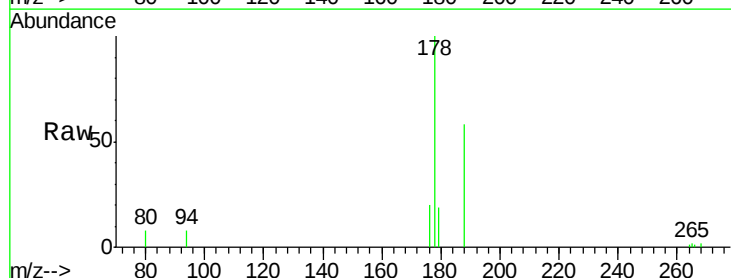
Tgt Ion:178 Resp: 8951

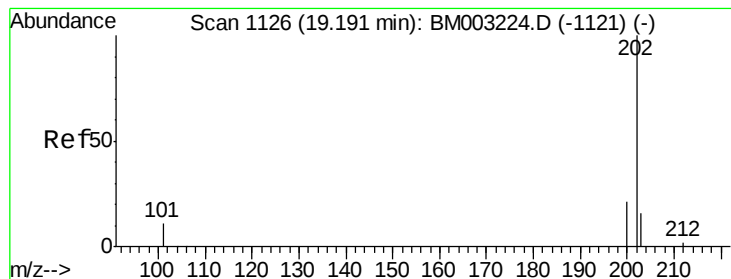
Ion Ratio Lower Upper

178 100

176 19.6 14.0 21.0

179 18.9 12.9 19.3





#17

Fluoranthene

Concen: 0.60 ng/ul

RT: 19.19 min Scan# 1126

Delta R.T. -0.00 min

Lab File: BM003228.D

Acq: 20 Nov 2015 19:20

Instrument :

BNA_M

ClientSampleId :

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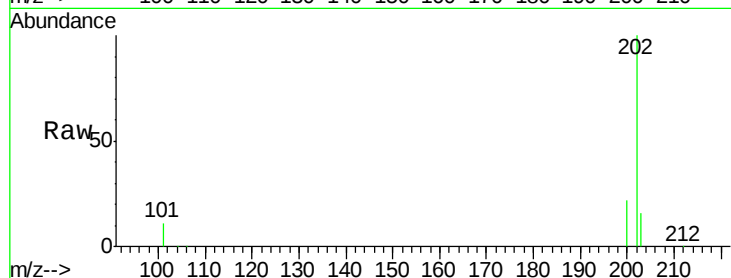
Tgt Ion:202 Resp: 104710

Ion Ratio Lower Upper

202 100

101 10.8 0.0 29.6

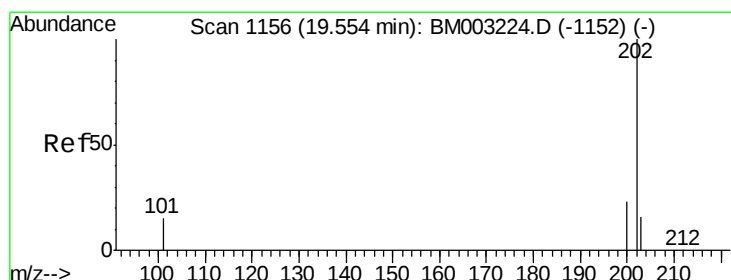
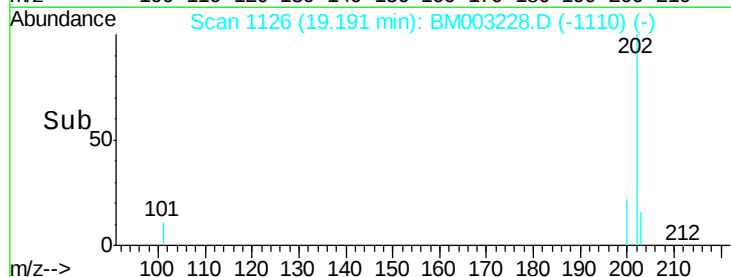
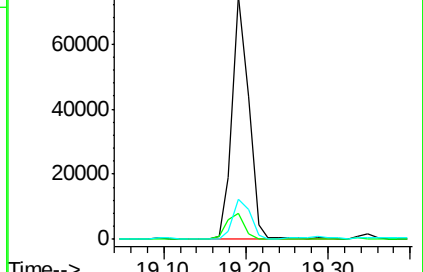
203 16.3 0.0 36.3



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

Pyrene

Concen: 0.52 ng/ul

RT: 19.55 min Scan# 1156

Delta R.T. -0.00 min

Lab File: BM003228.D

Acq: 20 Nov 2015 19:20

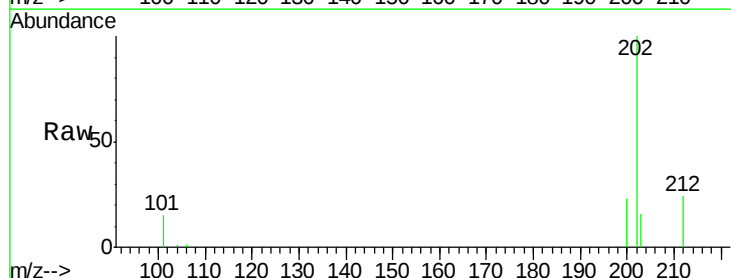
Tgt Ion:202 Resp: 96895

Ion Ratio Lower Upper

202 100

200 22.9 17.8 26.8

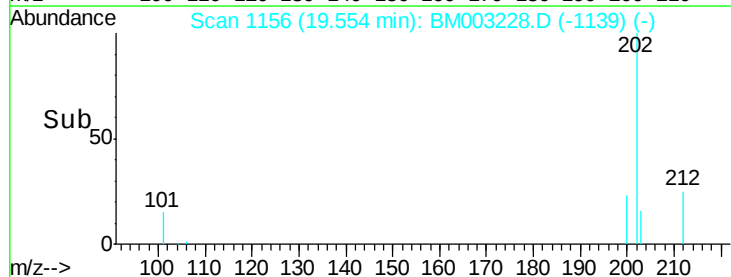
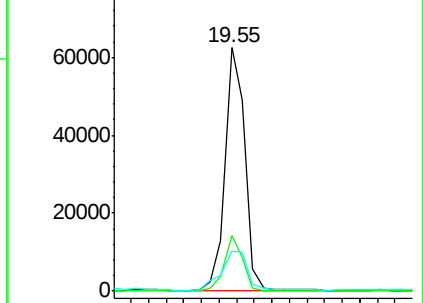
203 16.5 12.8 19.2

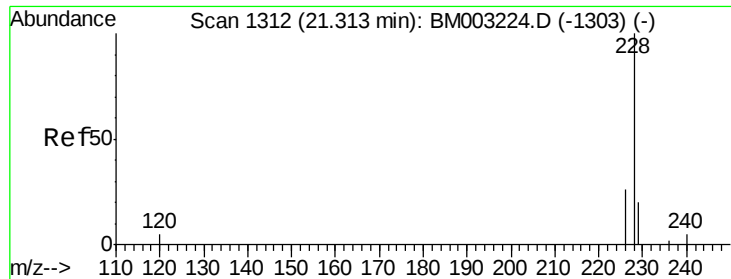


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#20

Benzo(a)anthracene

Concen: 0.29 ng/ul

RT: 21.31 min Scan# 1312

Delta R.T. -0.00 min

Lab File: BM003228.D

Acq: 20 Nov 2015 19:20

Instrument :

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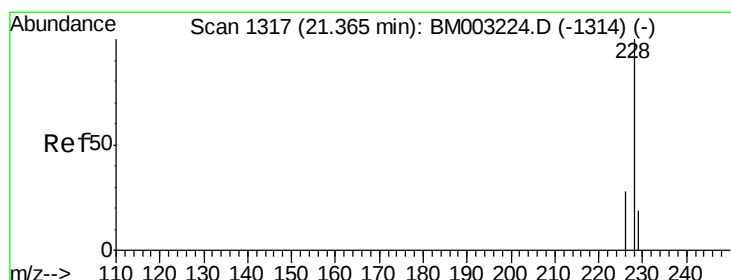
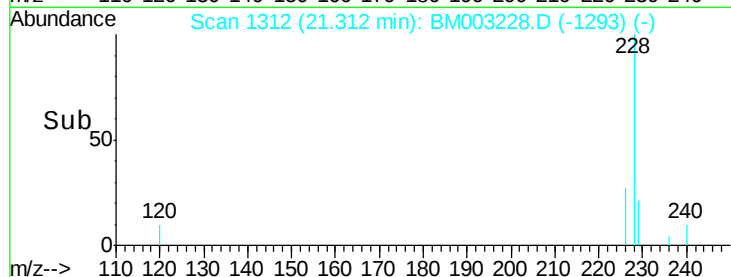
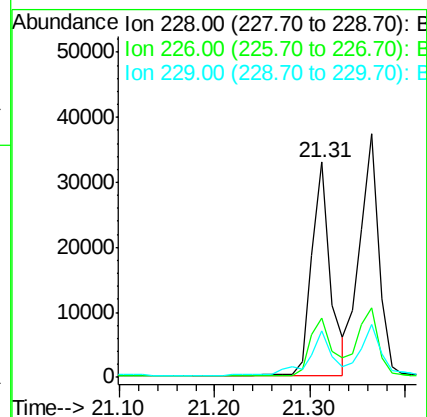
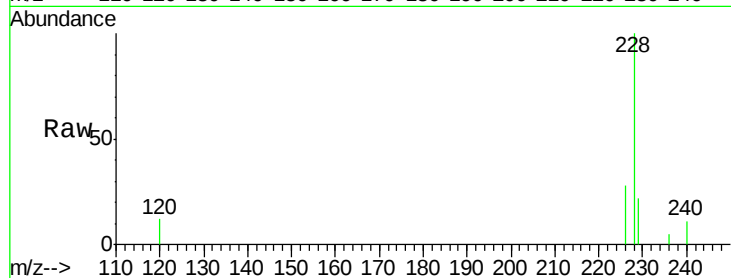
Tgt Ion:228 Resp: 44991

Ion Ratio Lower Upper

228 100

226 27.7 18.8 28.2

229 21.8 17.1 25.7



#21

Chrysene

Concen: 0.29 ng/ul

RT: 21.36 min Scan# 1317

Delta R.T. -0.00 min

Lab File: BM003228.D

Acq: 20 Nov 2015 19:20

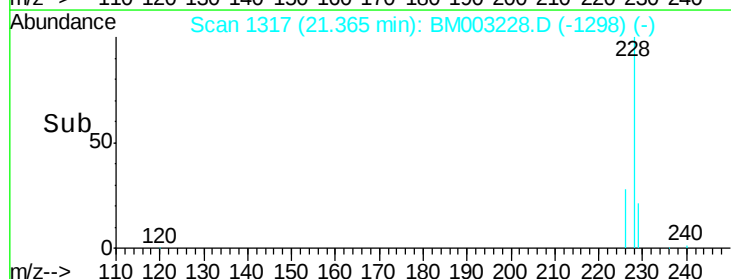
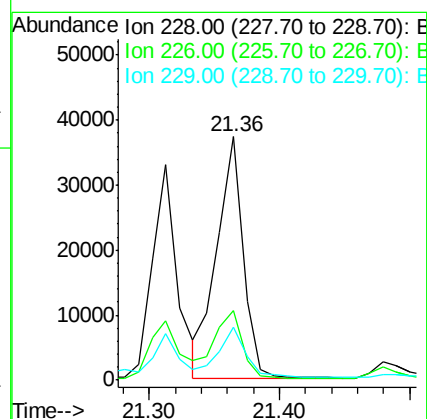
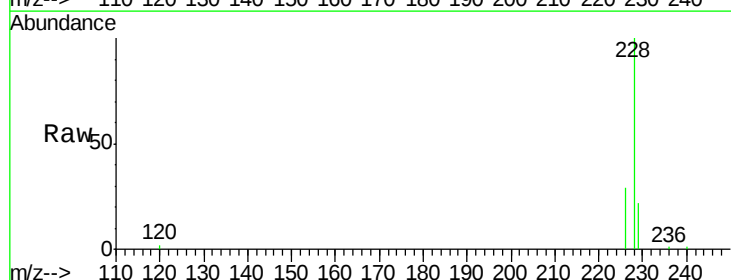
Tgt Ion:228 Resp: 52030

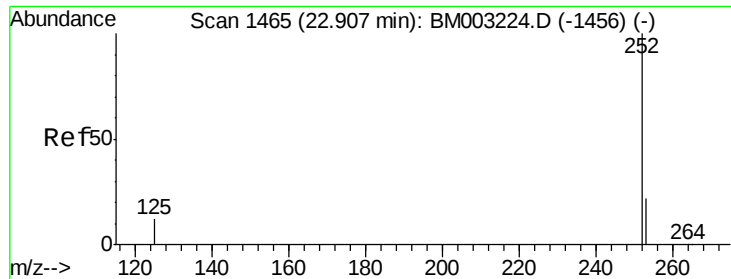
Ion Ratio Lower Upper

228 100

226 28.6 21.2 31.8

229 21.8 17.0 25.6





#23

Benzo(b)fluoranthene

Concen: 0.47 ng/u1

RT: 22.91 min Scan# 1465

Delta R.T. -0.00 min

Lab File: BM003228.D

Acq: 20 Nov 2015 19:20

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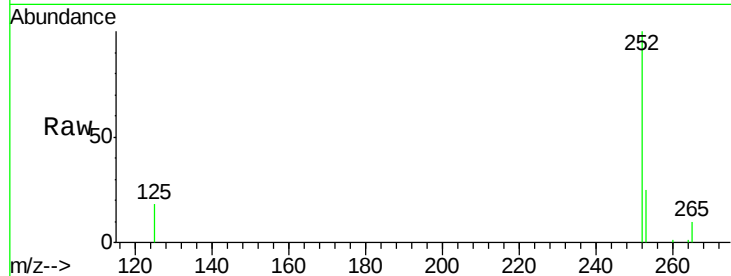
Tgt Ion:252 Resp: 95751

Ion Ratio Lower Upper

252 100

253 25.3 0.0 45.4

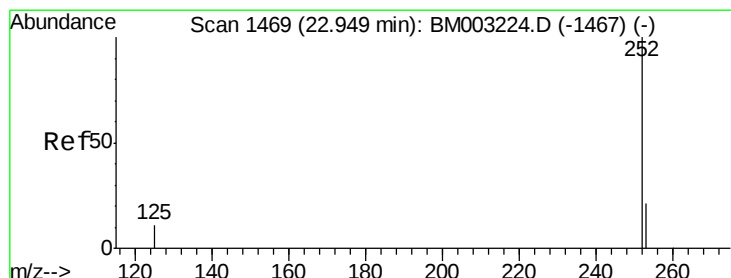
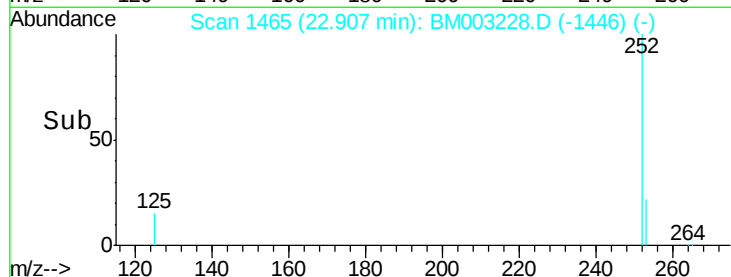
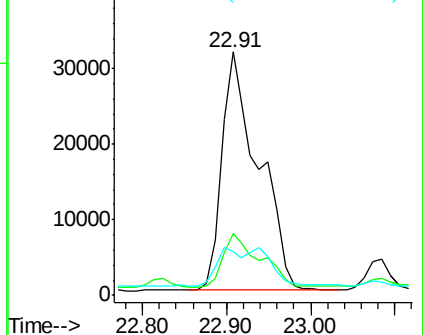
125 18.3 0.0 28.8



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



#24

Benzo(k)fluoranthene

Concen: 0.50 ng/u1

RT: 22.91 min Scan# 1465

Delta R.T. -0.04 min

Lab File: BM003228.D

Acq: 20 Nov 2015 19:20

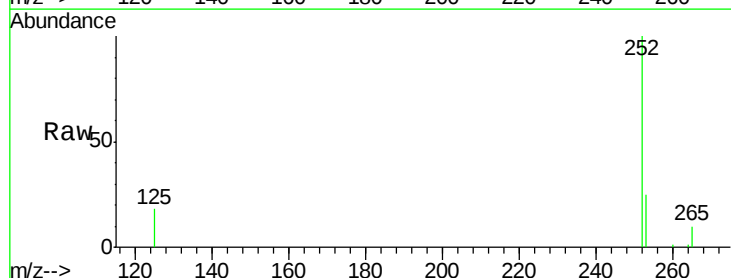
Tgt Ion:252 Resp: 95751

Ion Ratio Lower Upper

252 100

253 25.3 19.8 29.8

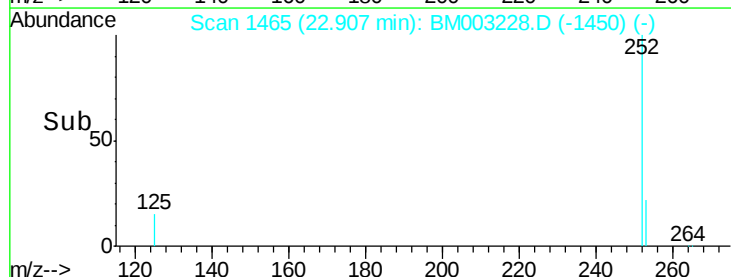
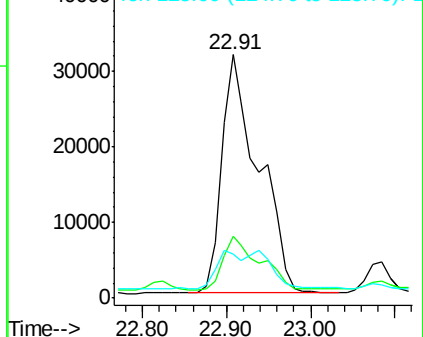
125 18.3 10.4 15.6#

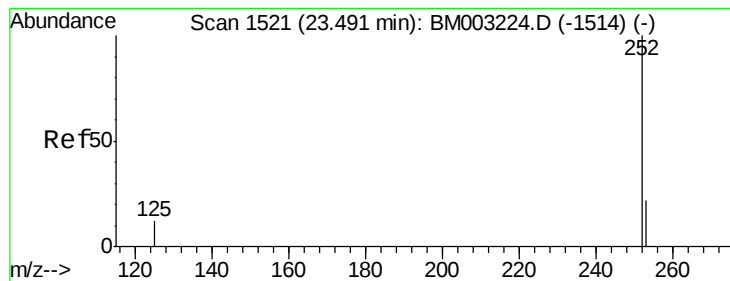


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 0.25 ng/ul

RT: 23.49 min Scan# 1521

Delta R.T. -0.00 min

Lab File: BM003228.D

Acq: 20 Nov 2015 19:20

Instrument :

BNA_M

ClientSampleId :

A4J60DL

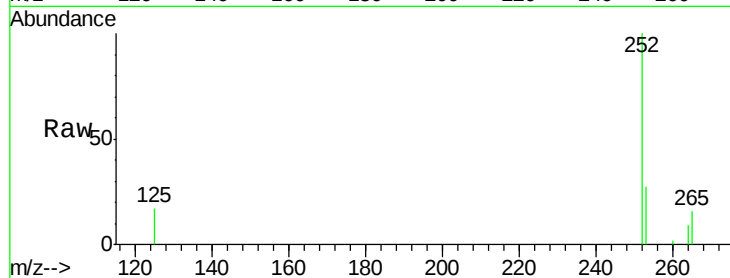
Tgt Ion:252 Resp: 45638

Ion Ratio Lower Upper

252 100

253 27.0 19.4 29.2

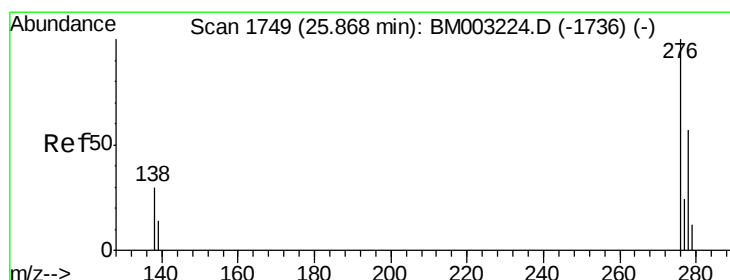
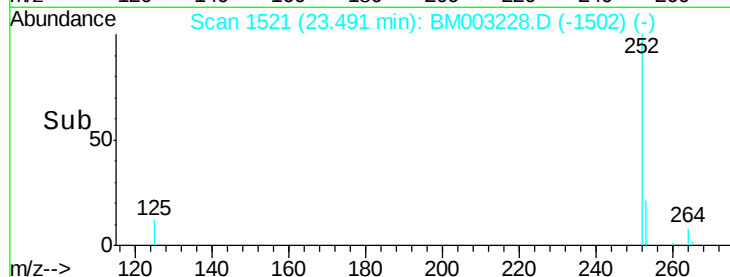
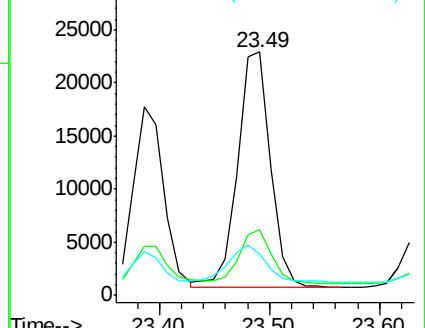
125 17.2 12.7 19.1



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



#26

Indeno(1,2,3-cd)pyrene

Concen: 0.15 ng/ul

RT: 25.87 min Scan# 1749

Delta R.T. -0.00 min

Lab File: BM003228.D

Acq: 20 Nov 2015 19:20

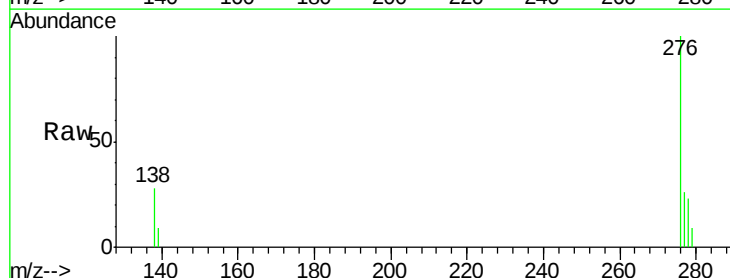
Tgt Ion:276 Resp: 33281

Ion Ratio Lower Upper

276 100

138 26.6 16.3 24.5#

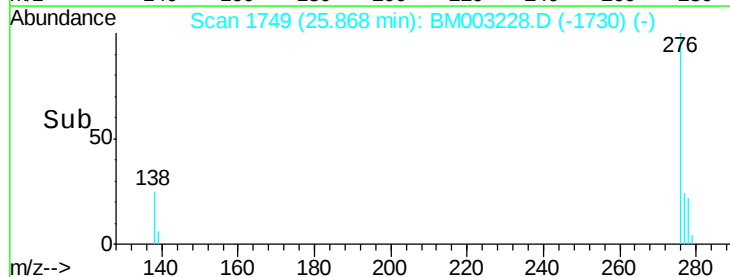
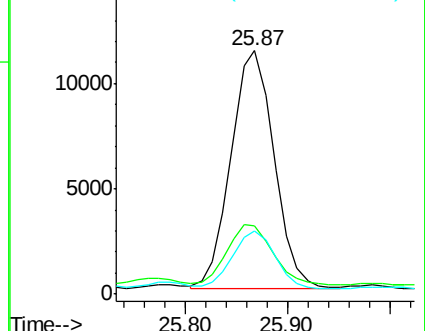
277 24.1 19.8 29.8

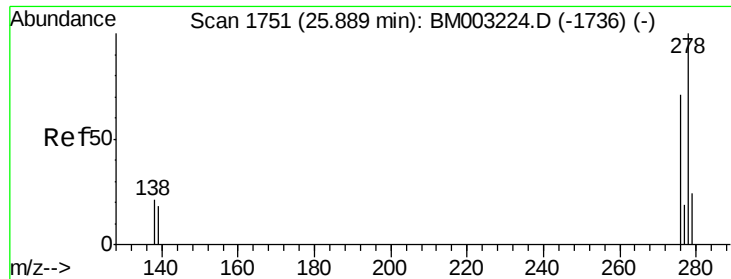


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

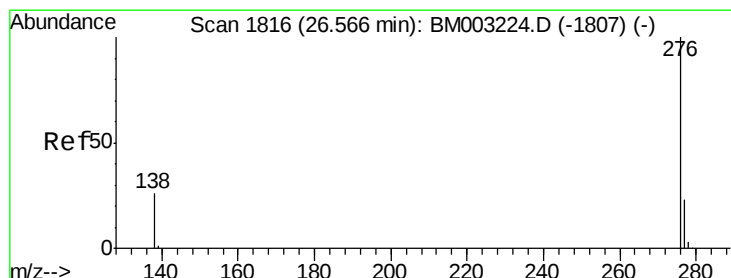
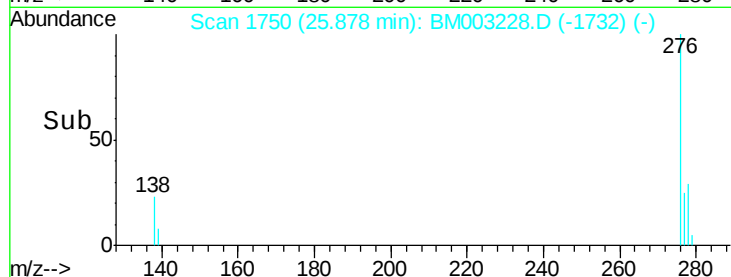
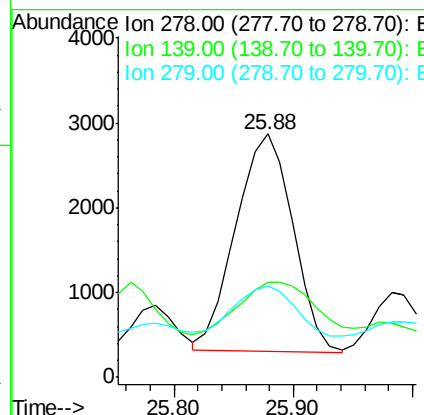
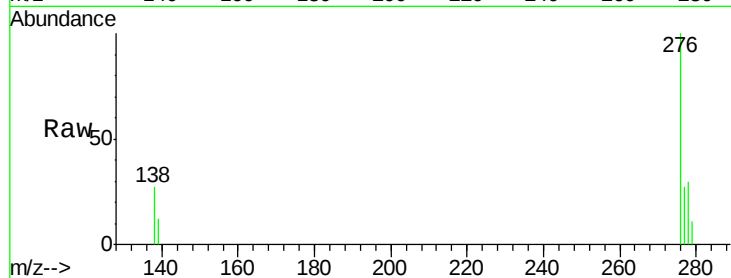




#27
Dibenzo(a,h)anthracene
Concen: 0.05 ng/ul
RT: 25.88 min Scan# 1750
Delta R.T. -0.01 min
Lab File: BM003228.D
Acq: 20 Nov 2015 19:20

Instrument :
BNA_M
ClientSampleId :
A4J60DL

Tgt Ion: 278 Resp: 8545
Ion Ratio Lower Upper
278 100
139 38.8 16.4 24.6#
279 37.7 20.2 30.2#



#28
Benzo(g,h,i)perylene
Concen: 0.17 ng/ul
RT: 26.57 min Scan# 1816
Delta R.T. -0.00 min
Lab File: BM003228.D
Acq: 20 Nov 2015 19:20

Tgt Ion: 276 Resp: 31492
Ion Ratio Lower Upper
276 100
277 25.5 18.9 28.3
138 28.9 22.5 33.7

