

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031716\
 Data File : BE091460.D
 Acq On : 17 Mar 2016 9:35
 Operator : UM/SJ
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 ICSVBE031716

Quant Time: Mar 17 16:03:10 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE031616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 17 15:28:00 2016
 Response via : Initial Calibration

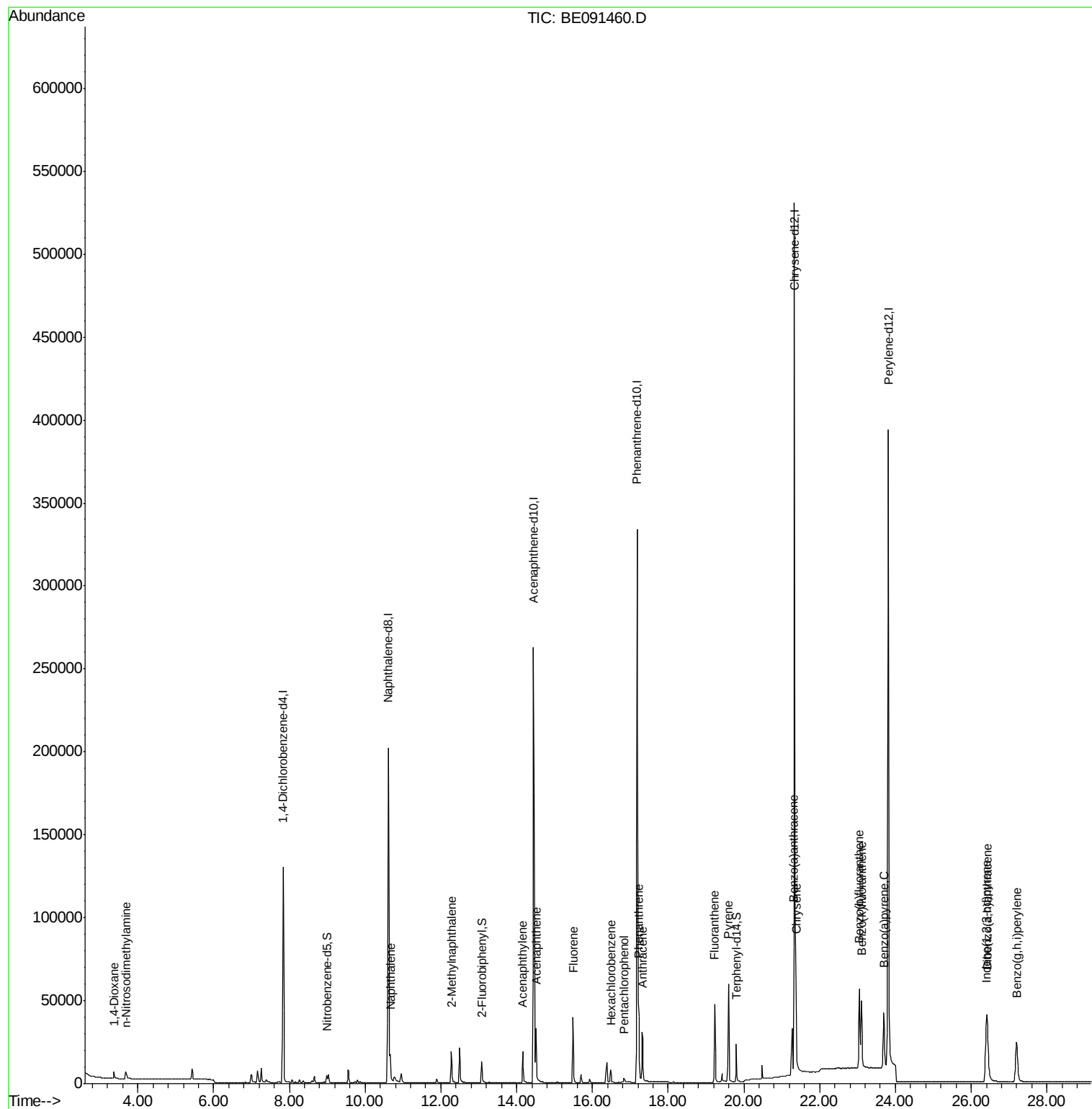
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	65398	5.00	ng	0.00
4) Naphthalene-d8	10.61	136	292761	5.00	ng	0.00
8) Acenaphthene-d10	14.45	164	176542	5.00	ng	0.00
13) Phenanthrene-d10	17.18	188	450843	5.00	ng	0.00
19) Chrysene-d12	21.34	240	630015	5.00	ng	0.00
25) Perylene-d12	23.81	264	589402	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	8.99	82	4555	0.48	ng	0.00
9) 2-Fluorobiphenyl	13.08	172	16798	0.37	ng	0.00
21) Terphenyl-d14	19.80	244	30270	0.32	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.37	88	3044	0.36	ng	# 100
3) n-Nitrosodimethylamine	3.68	42	4289	0.34	ng	# 100
6) Naphthalene	10.67	128	27115	0.38	ng	99
7) 2-Methylnaphthalene	12.27	142	16951	0.36	ng	93
10) Acenaphthylene	14.16	152	25234	0.33	ng	# 100
11) Acenaphthene	14.51	154	20879	0.38	ng	# 100
12) Fluorene	15.49	166	26475	0.38	ng	# 100
14) Hexachlorobenzene	16.48	284	7266	0.37	ng	# 100
15) Pentachlorophenol	16.83	266	2910	0.51	ng	# 81
16) Phenanthrene	17.22	178	49711	0.39	ng	# 100
17) Anthracene	17.31	178	40555	0.35	ng	# 100
18) Fluoranthene	19.22	202	54366	0.37	ng	# 68
20) Pyrene	19.59	202	60483	0.34	ng	# 92
22) Benzo(a)anthracene	21.31	228	85573	0.39	ng	96
23) Chrysene	21.38	228	72590m	0.39	ng	
24) Indeno(1,2,3-cd)pyrene	26.40	276	70444	0.33	ng	# 100
26) Benzo(b)fluoranthene	23.04	252	67812	0.34	ng	97
27) Benzo(k)fluoranthene	23.10	252	70809	0.38	ng	99
28) Benzo(a)pyrene	23.69	252	58891	0.34	ng	98
29) Dibenzo(a,h)anthracene	26.42	278	58586	0.35	ng	98
30) Benzo(g,h,i)perylene	27.20	276	63332	0.37	ng	98

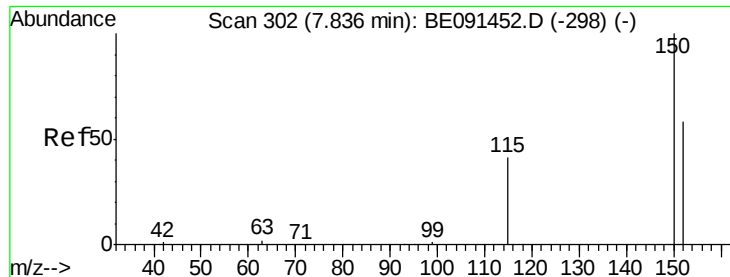
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.84 min Scan# 302

Delta R.T. 0.00 min

Lab File: BE091460.D

Acq: 17 Mar 2016 9:35

Instrument :

BNA_E

ClientSampleId :

ICVBE031716

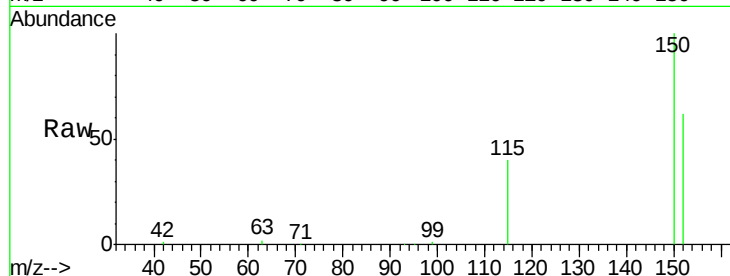
Tgt Ion:152 Resp: 65398

Ion Ratio Lower Upper

152 100

150 162.2 136.8 205.2

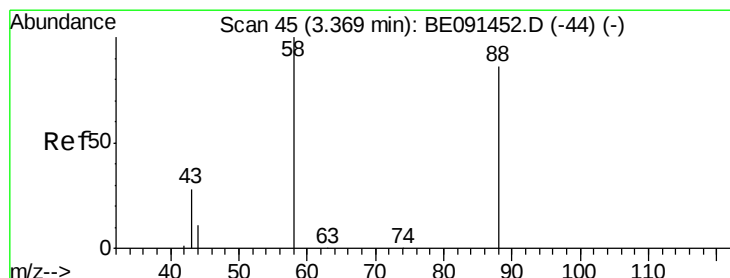
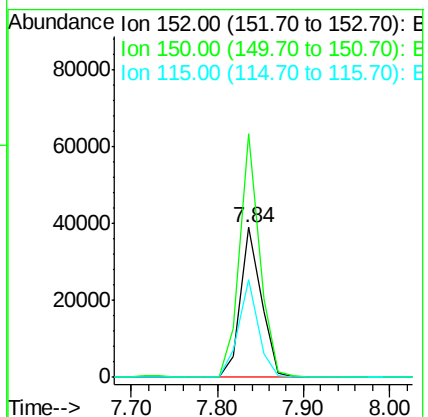
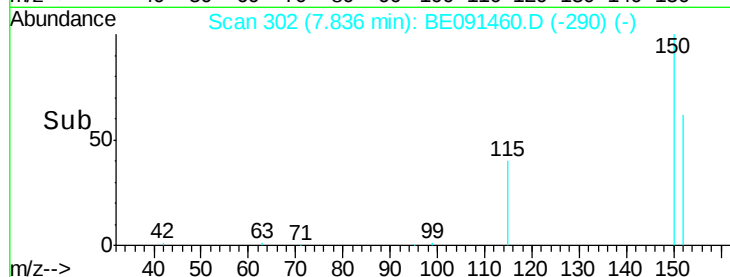
115 65.5 56.9 85.3



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



#2

1,4-Dioxane

Concen: 0.36 ng

RT: 3.37 min Scan# 45

Delta R.T. -0.00 min

Lab File: BE091460.D

Acq: 17 Mar 2016 9:35

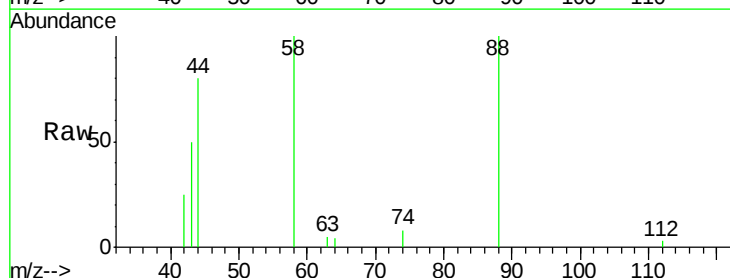
Tgt Ion: 88 Resp: 3044

Ion Ratio Lower Upper

88 100

58 81.8 0.0 0.0#

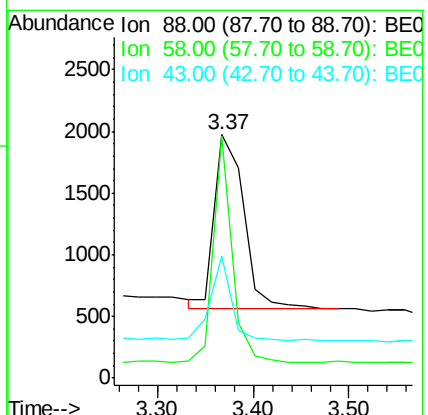
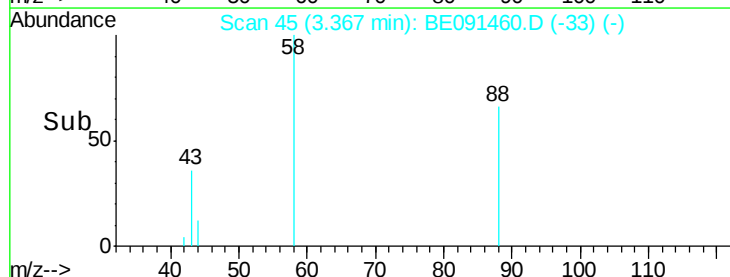
43 35.1 0.0 0.0#

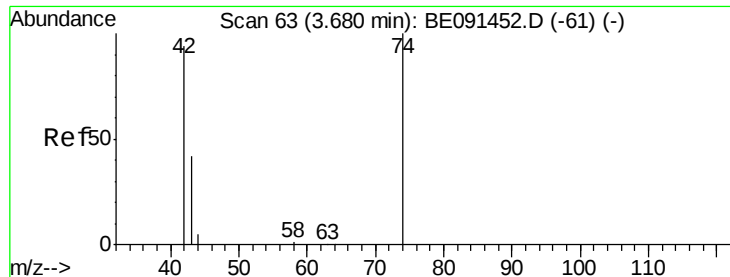


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.34 ng

RT: 3.68 min Scan# 63

Delta R.T. -0.00 min

Lab File: BE091460.D

Acq: 17 Mar 2016 9:35

Instrument :

BNA_E

ClientSampleId :

ICVBE031716

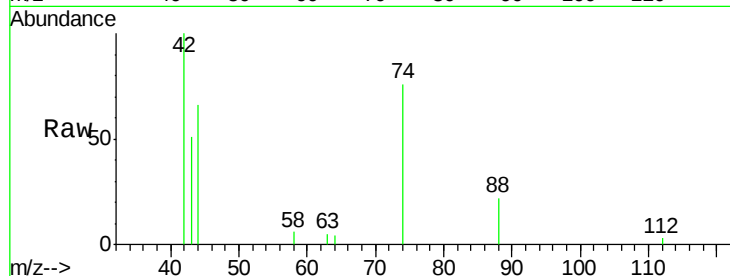
Tgt Ion: 42 Resp: 4289

Ion Ratio Lower Upper

42 100

74 106.9 0.0 0.0#

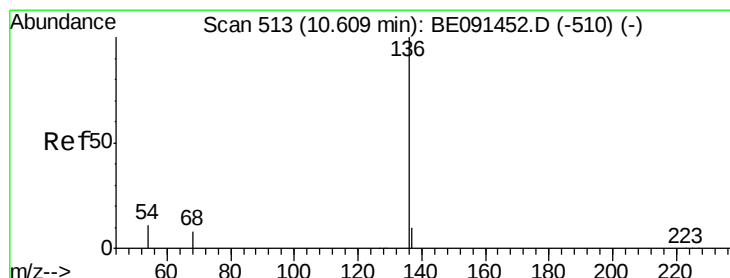
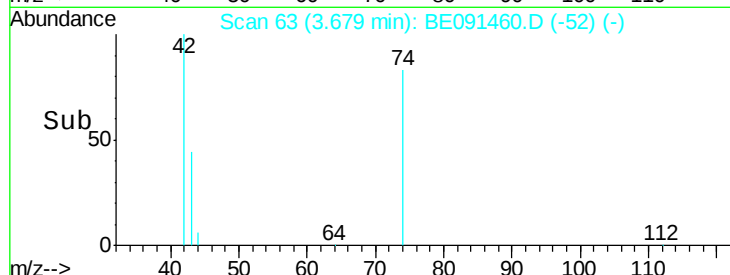
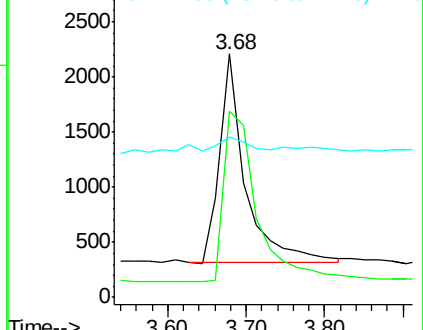
44 14.6 0.0 0.0#



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 10.61 min Scan# 513

Delta R.T. 0.00 min

Lab File: BE091460.D

Acq: 17 Mar 2016 9:35

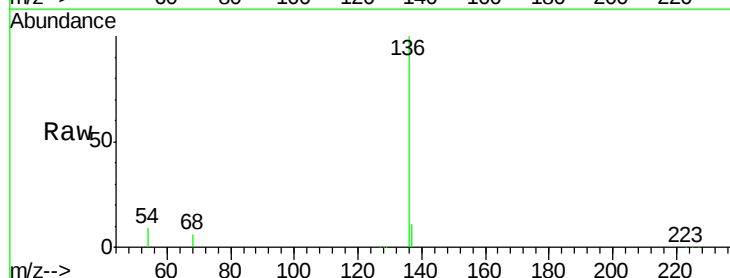
Tgt Ion: 136 Resp: 292761

Ion Ratio Lower Upper

136 100

137 10.6 8.0 12.0

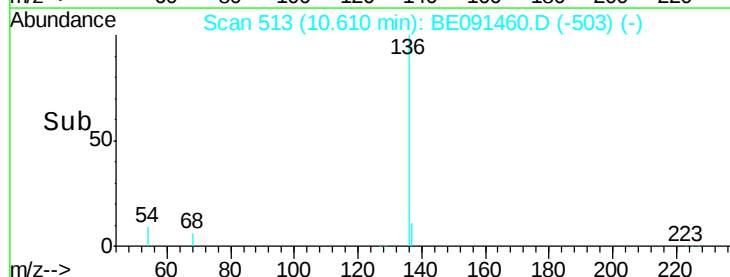
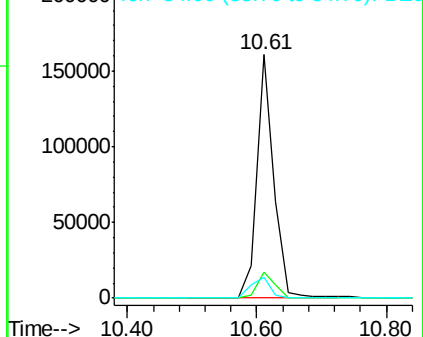
54 8.8 9.1 13.7#

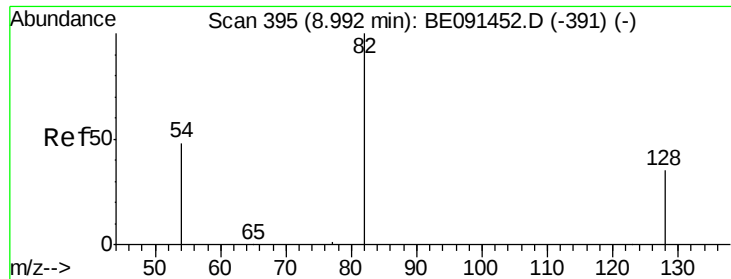


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 0.48 ng

RT: 8.99 min Scan# 395

Delta R.T. 0.00 min

Lab File: BE091460.D

Acq: 17 Mar 2016 9:35

Instrument :

BNA_E

ClientSampleId :

ICVBE031716

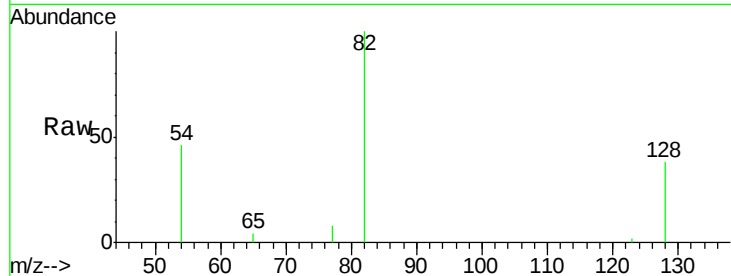
Tgt Ion: 82 Resp: 4555

Ion Ratio Lower Upper

82 100

128 38.3 29.4 44.2

54 45.8 39.8 59.8

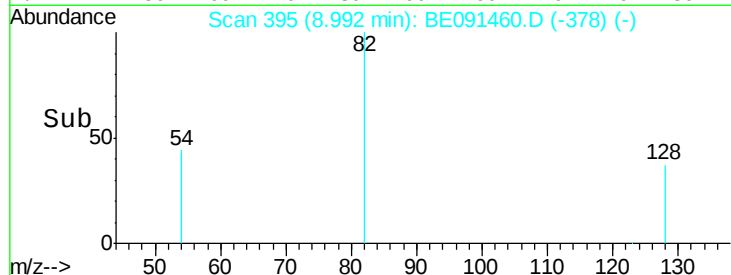


Abundance Ion 82.00 (81.70 to 82.70): BE091452.D (-391) (-)

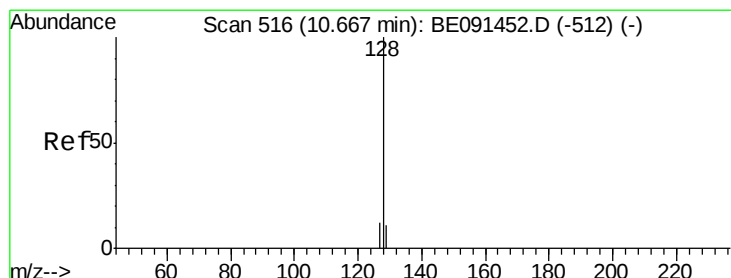
Ion 128.00 (127.70 to 128.70): BE091452.D (-391) (-)

Ion 54.00 (53.70 to 54.70): BE091452.D (-391) (-)

Time-->



Time-->



#6

Naphthalene

Concen: 0.38 ng

RT: 10.67 min Scan# 516

Delta R.T. 0.00 min

Lab File: BE091460.D

Acq: 17 Mar 2016 9:35

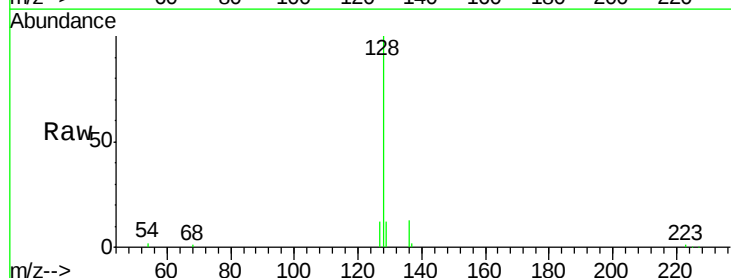
Tgt Ion: 128 Resp: 27115

Ion Ratio Lower Upper

128 100

129 12.2 9.4 14.0

127 11.6 9.7 14.5

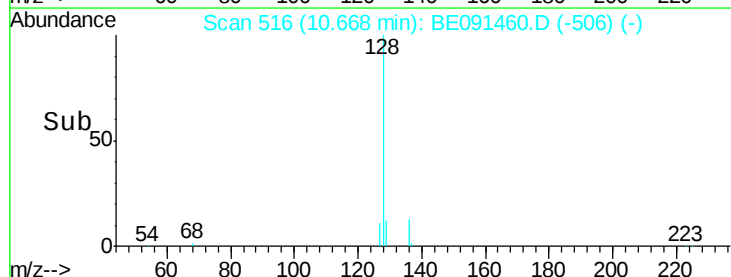


Abundance Ion 128.00 (127.70 to 128.70): BE091452.D (-512) (-)

Ion 129.00 (128.70 to 129.70): BE091452.D (-512) (-)

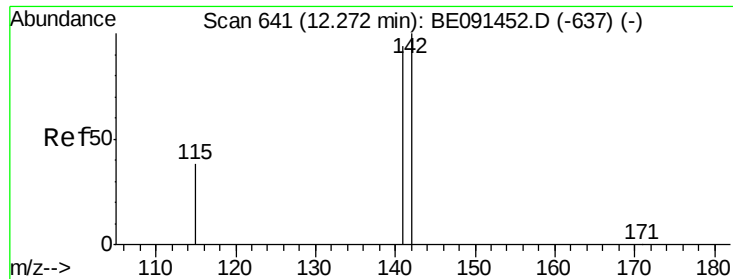
Ion 127.00 (126.70 to 127.70): BE091452.D (-512) (-)

Time-->



Time-->

Time-->



#7

2-Methylnaphthalene

Concen: 0.36 ng

RT: 12.27 min Scan# 641

Delta R.T. 0.00 min

Lab File: BE091460.D

Acq: 17 Mar 2016 9:35

Instrument :

BNA_E

ClientSampleId :

ICVBE031716

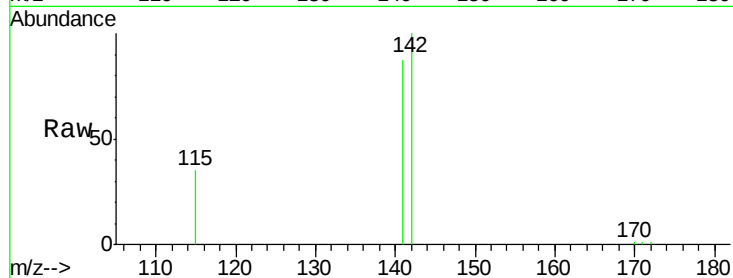
Tgt Ion:142 Resp: 16951

Ion Ratio Lower Upper

142 100

141 87.0 75.0 112.4

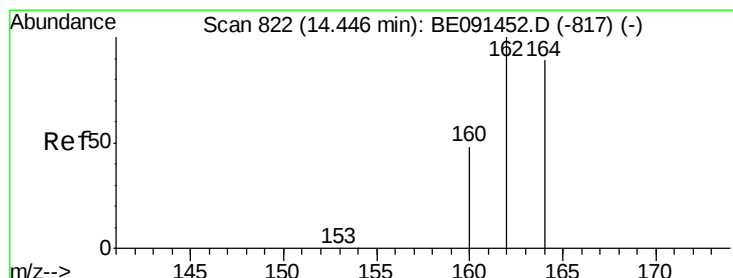
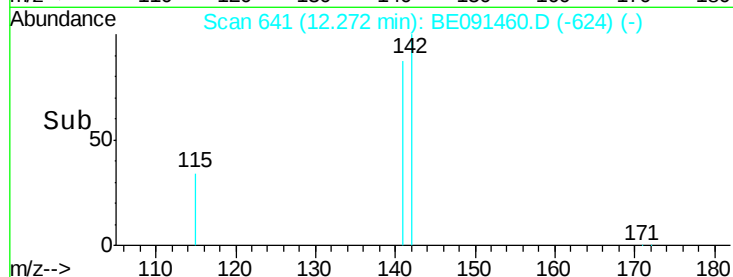
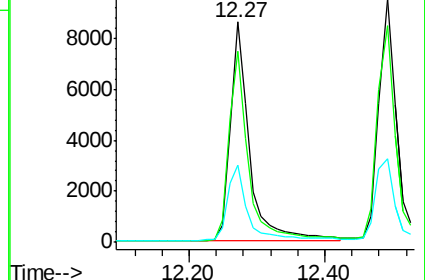
115 35.2 30.8 46.2



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: 14.45 min Scan# 822

Delta R.T. -0.00 min

Lab File: BE091460.D

Acq: 17 Mar 2016 9:35

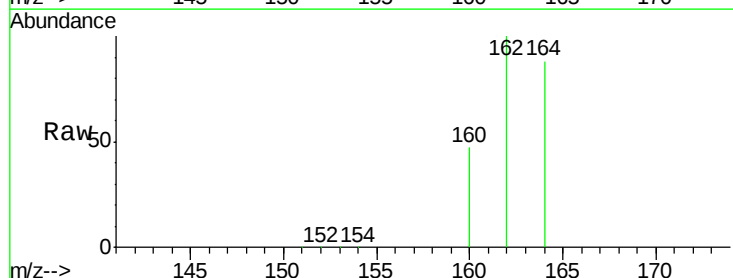
Tgt Ion:164 Resp: 176542

Ion Ratio Lower Upper

164 100

162 113.9 89.8 134.8

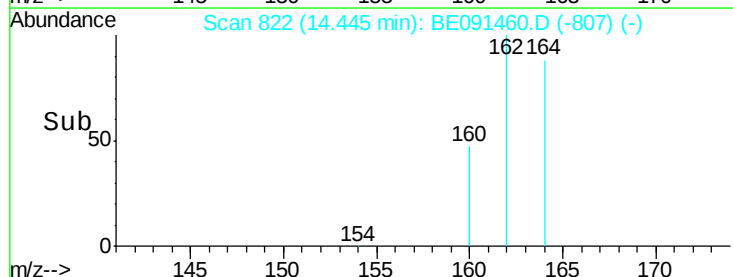
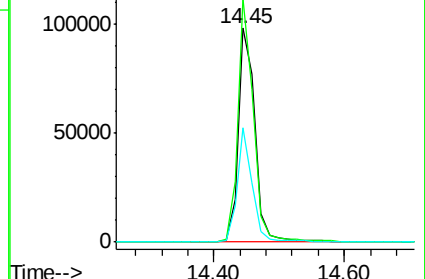
160 53.4 43.1 64.7

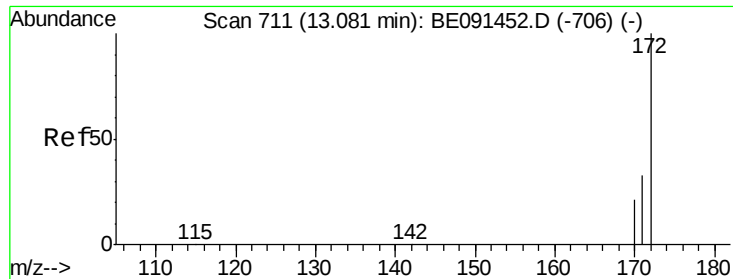


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 0.37 ng

RT: 13.08 min Scan# 711

Delta R.T. 0.00 min

Lab File: BE091460.D

Acq: 17 Mar 2016 9:35

Instrument :

BNA_E

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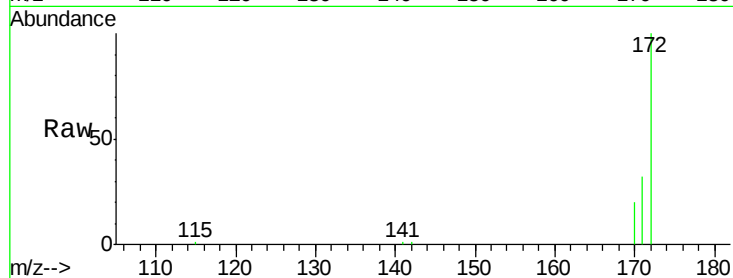
Tgt Ion:172 Resp: 16798

Ion Ratio Lower Upper

172 100

171 32.1 26.7 40.1

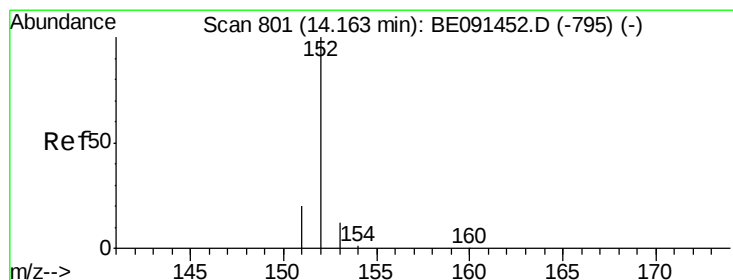
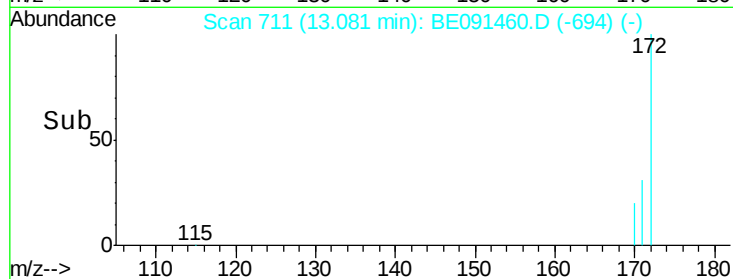
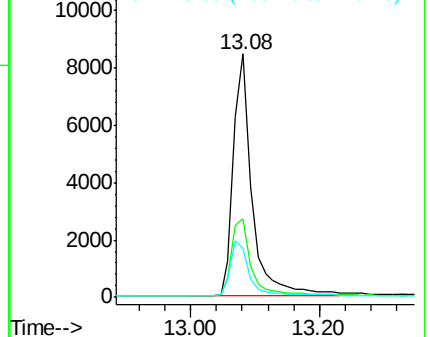
170 20.4 17.4 26.2



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: 0.33 ng

RT: 14.16 min Scan# 801

Delta R.T. -0.00 min

Lab File: BE091460.D

Acq: 17 Mar 2016 9:35

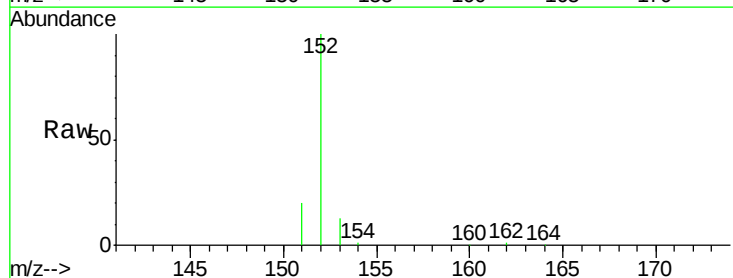
Tgt Ion:152 Resp: 25234

Ion Ratio Lower Upper

152 100

151 20.3 0.0 0.0#

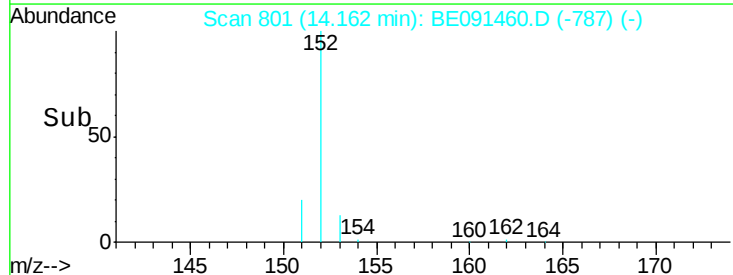
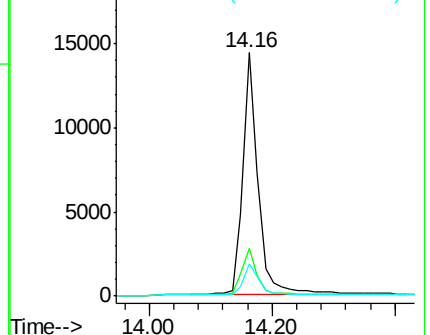
153 13.7 0.0 0.0#

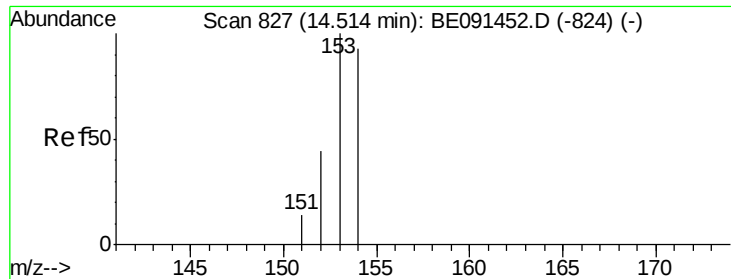


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

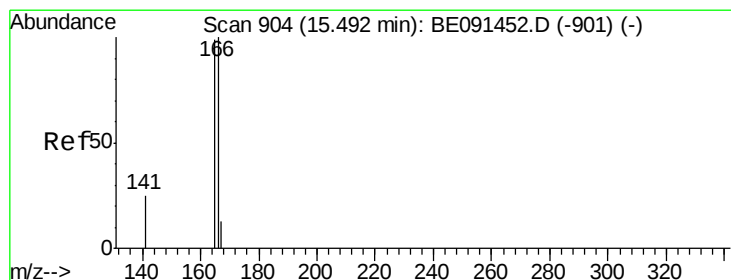
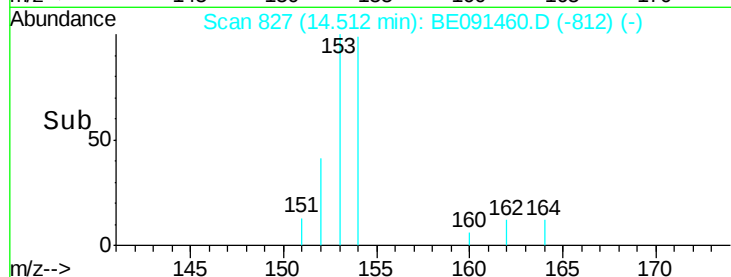
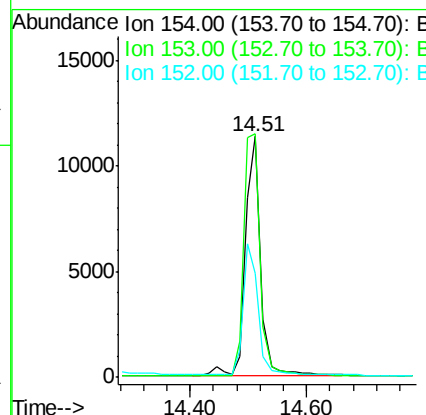
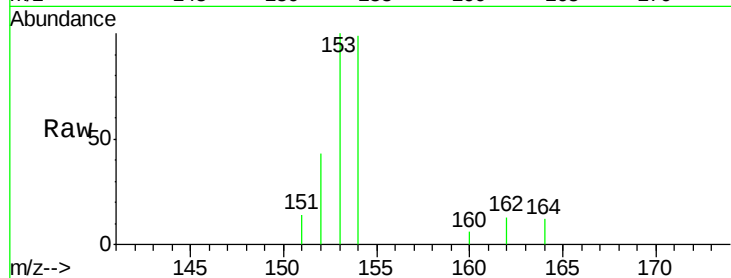




#11
Acenaphthene
Concen: 0.38 ng
RT: 14.51 min Scan# 827
Delta R.T. -0.00 min
Lab File: BE091460.D
Acq: 17 Mar 2016 9:35

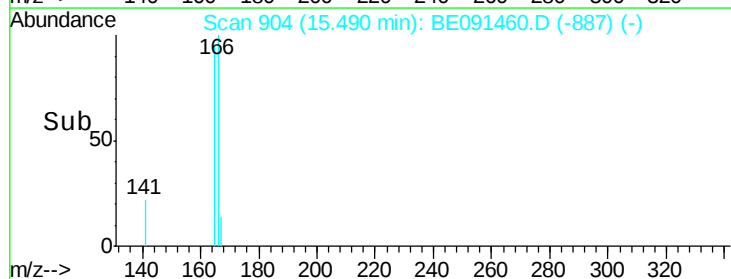
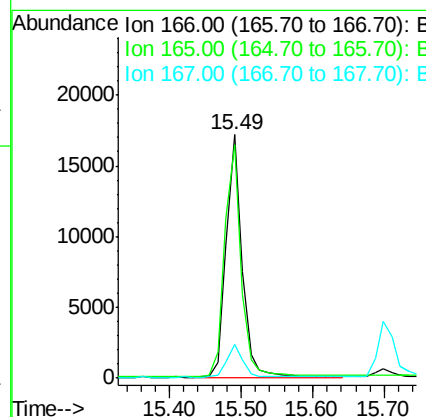
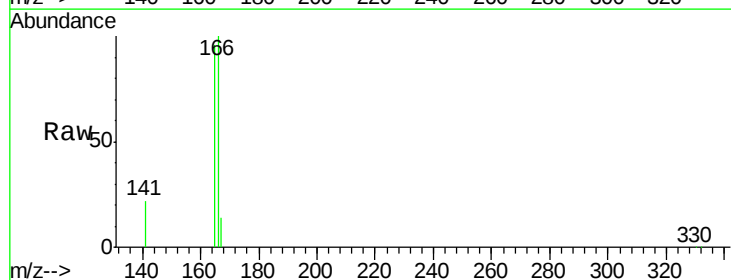
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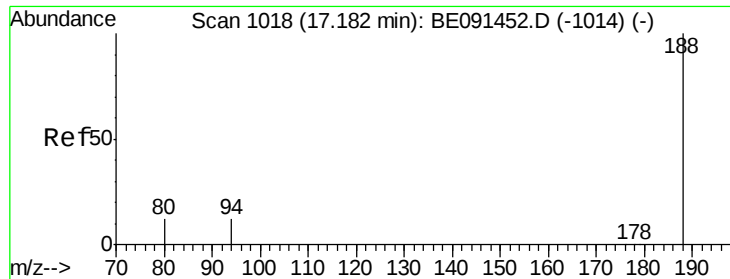
Tgt Ion:154 Resp: 20879
Ion Ratio Lower Upper
154 100
153 109.0 0.0 0.0#
152 52.9 0.0 0.0#



#12
Fluorene
Concen: 0.38 ng
RT: 15.49 min Scan# 904
Delta R.T. -0.00 min
Lab File: BE091460.D
Acq: 17 Mar 2016 9:35

Tgt Ion:166 Resp: 26475
Ion Ratio Lower Upper
166 100
165 99.2 0.0 0.0#
167 13.7 0.0 0.0#

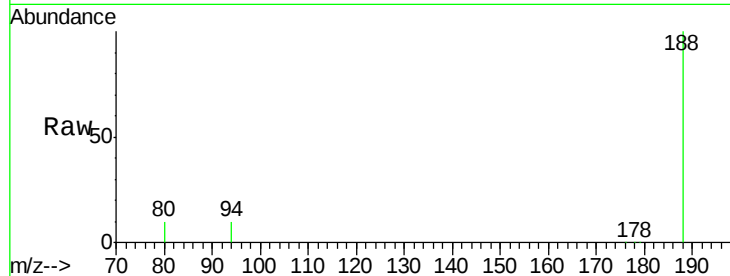




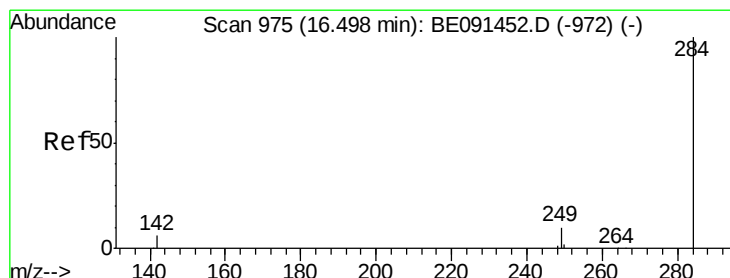
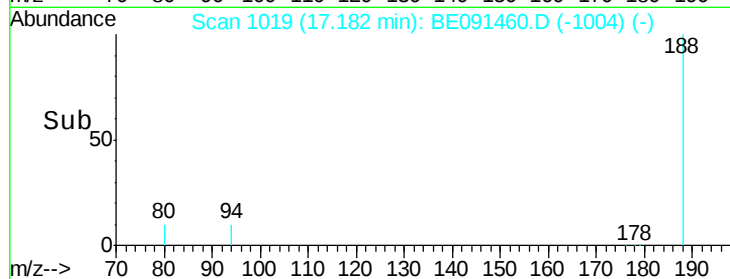
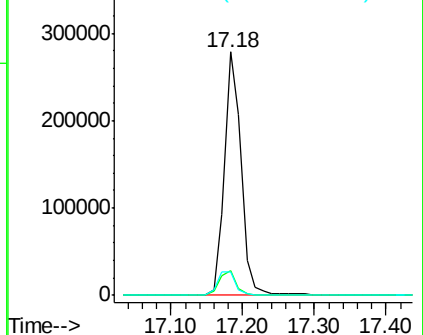
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.18 min Scan# 1019
Delta R.T. 0.00 min
Lab File: BE091460.D
Acq: 17 Mar 2016 9:35

Instrument :
BNA_E
ClientSampleId :
ICVBE031716

Tgt Ion:188 Resp: 450843
Ion Ratio Lower Upper
188 100
94 9.9 9.5 14.3
80 9.7 9.8 14.8#

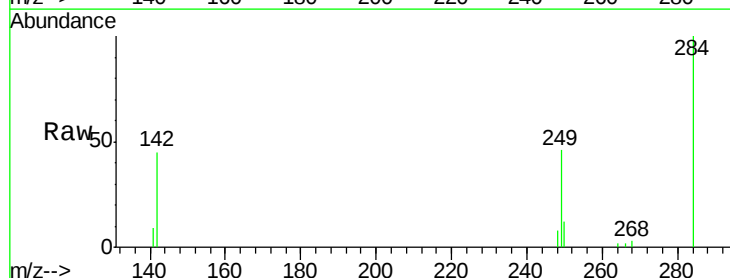


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

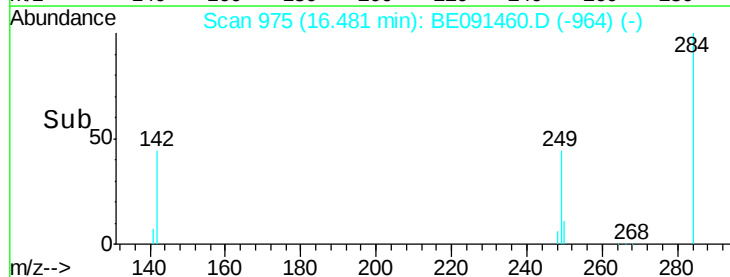
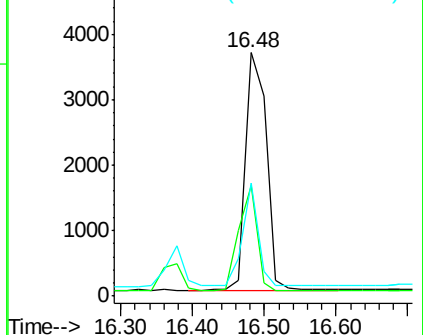


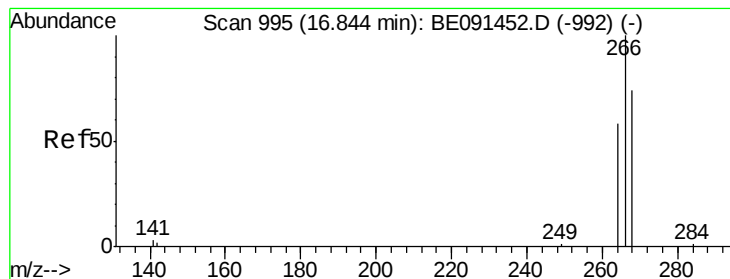
#14
Hexachlorobenzene
Concen: 0.37 ng
RT: 16.48 min Scan# 975
Delta R.T. -0.02 min
Lab File: BE091460.D
Acq: 17 Mar 2016 9:35

Tgt Ion:284 Resp: 7266
Ion Ratio Lower Upper
284 100
142 38.5 0.0 0.0#
249 32.3 0.0 0.0#



Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E





#15

Pentachlorophenol

Concen: 0.51 ng

RT: 16.83 min Scan# 995

Delta R.T. -0.02 min

Lab File: BE091460.D

Acq: 17 Mar 2016 9:35

Instrument :

BNA_E

ClientSampleId :

ICVBE031716

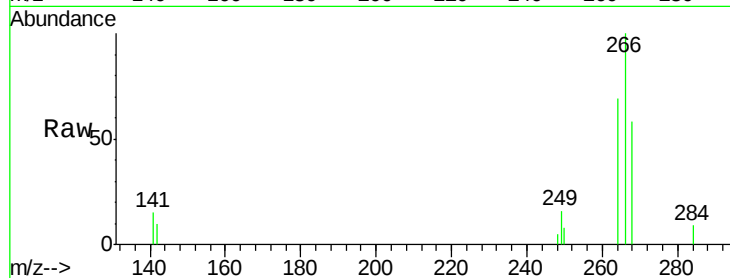
Tgt Ion:266 Resp: 2910

Ion Ratio Lower Upper

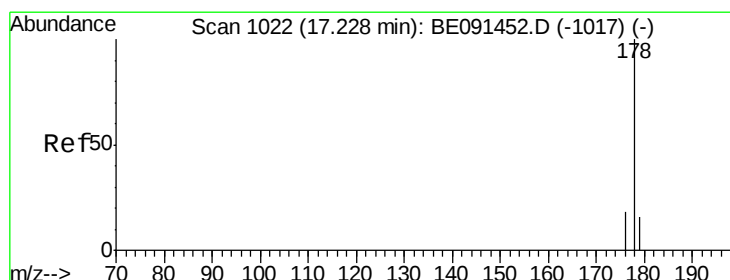
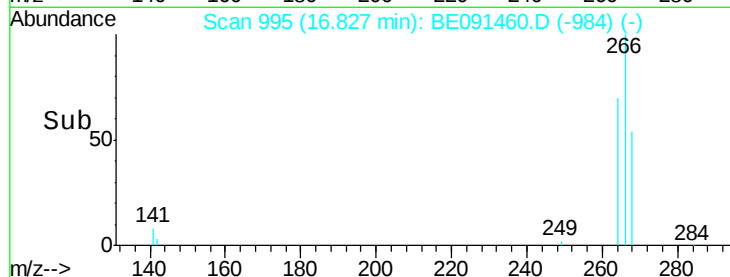
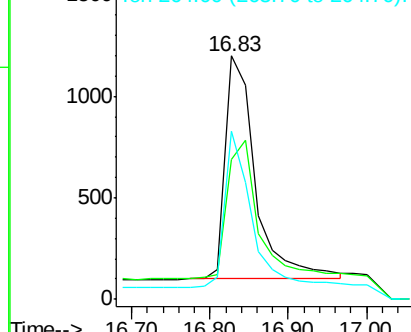
266 100

268 57.7 61.0 91.6#

264 69.1 45.7 68.5#



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: 0.39 ng

RT: 17.22 min Scan# 1022

Delta R.T. -0.01 min

Lab File: BE091460.D

Acq: 17 Mar 2016 9:35

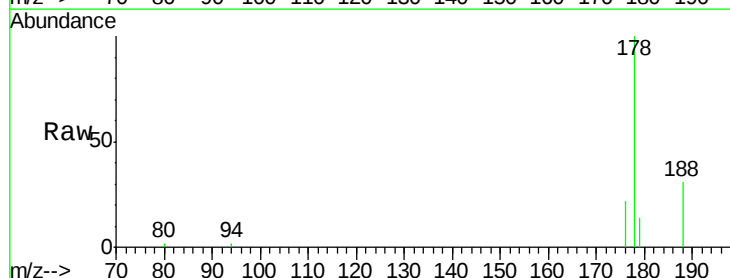
Tgt Ion:178 Resp: 49711

Ion Ratio Lower Upper

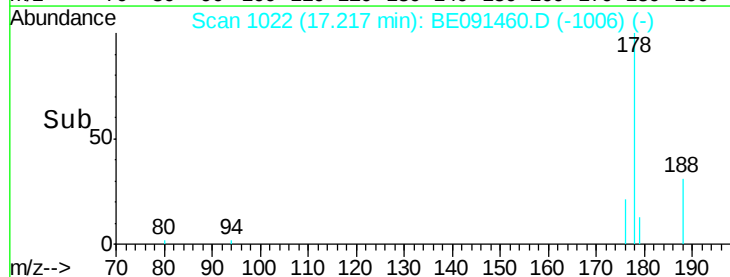
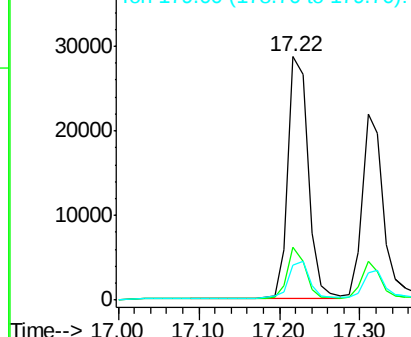
178 100

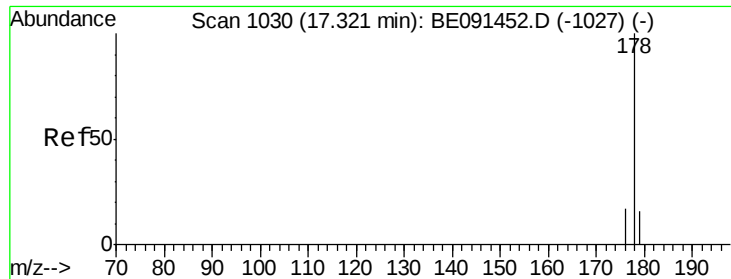
176 19.3 0.0 0.0#

179 16.0 0.0 0.0#



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: 0.35 ng

RT: 17.31 min Scan# 1030

Delta R.T. -0.01 min

Lab File: BE091460.D

Acq: 17 Mar 2016 9:35

Instrument :

BNA_E

ClientSampleId :

ICVBE031716

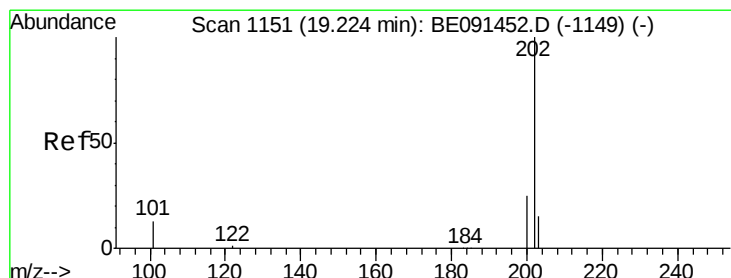
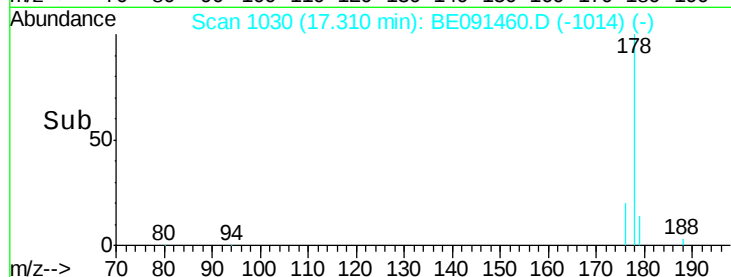
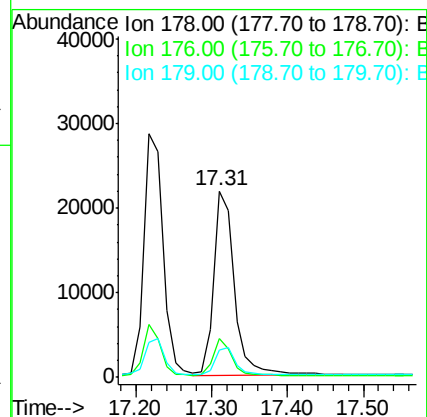
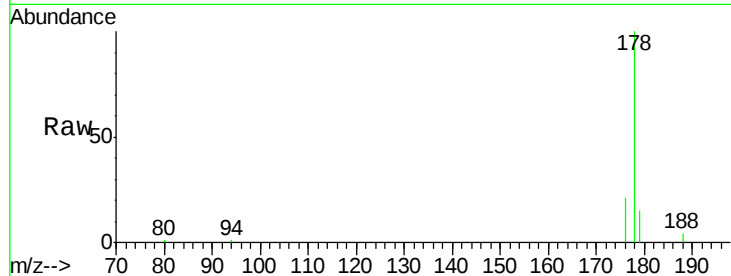
Tgt Ion:178 Resp: 40555

Ion Ratio Lower Upper

178 100

176 18.8 0.0 0.0#

179 15.4 0.0 0.0#



#18

Fluoranthene

Concen: 0.37 ng

RT: 19.22 min Scan# 1152

Delta R.T. 0.00 min

Lab File: BE091460.D

Acq: 17 Mar 2016 9:35

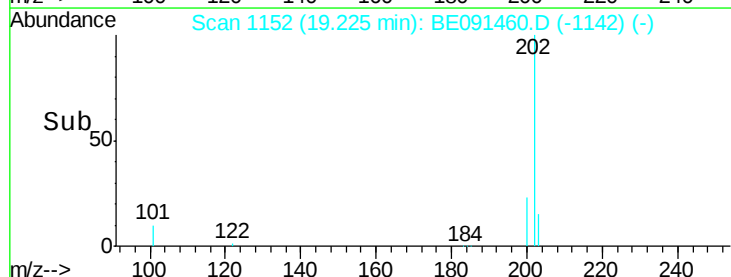
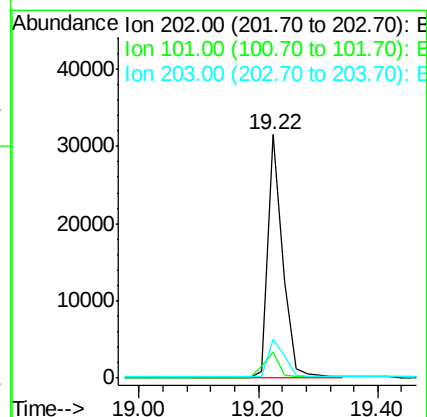
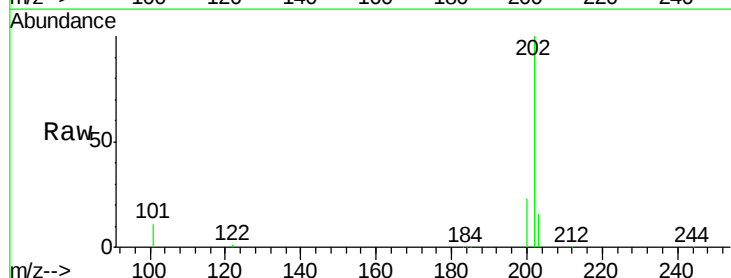
Tgt Ion:202 Resp: 54366

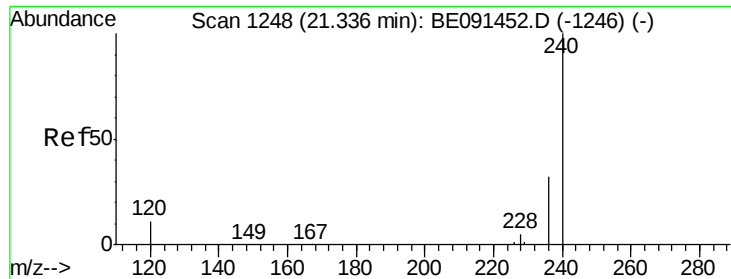
Ion Ratio Lower Upper

202 100

101 11.0 1.1 1.7#

203 17.4 1.0 1.6#





#19

Chrysene-d12

Concen: 5.00 ng

RT: 21.34 min Scan# 1249

Delta R.T. -0.00 min

Lab File: BE091460.D

Acq: 17 Mar 2016 9:35

Instrument :

BNA_E

ClientSampleId :

ICVBE031716

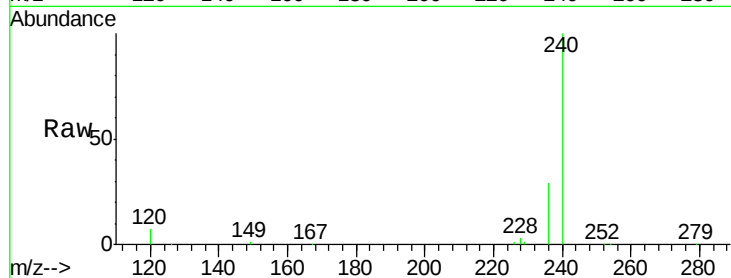
Tgt Ion:240 Resp: 630015

Ion Ratio Lower Upper

240 100

120 7.1 8.8 13.2#

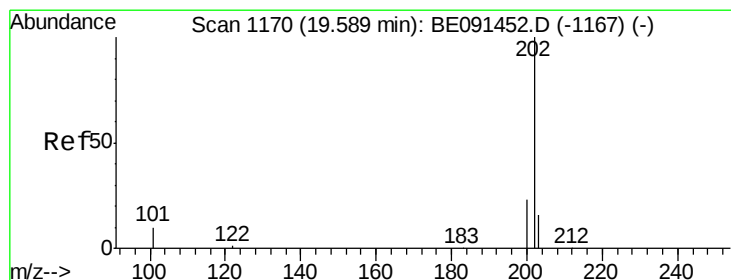
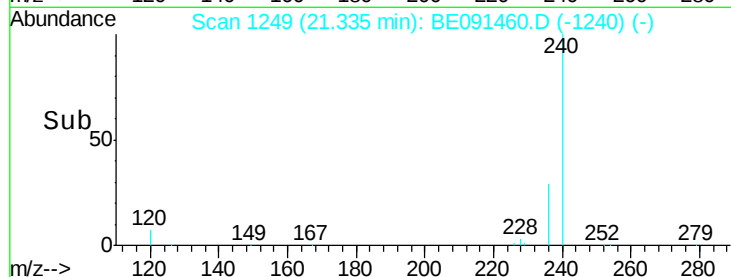
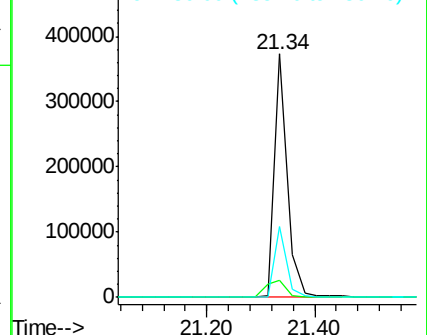
236 29.2 25.7 38.5



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: 0.34 ng

RT: 19.59 min Scan# 1171

Delta R.T. 0.00 min

Lab File: BE091460.D

Acq: 17 Mar 2016 9:35

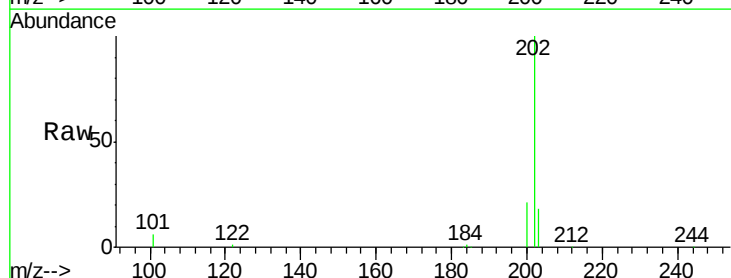
Tgt Ion:202 Resp: 60483

Ion Ratio Lower Upper

202 100

200 20.8 0.0 0.0#

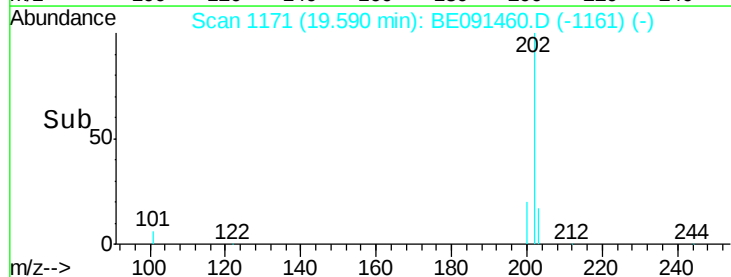
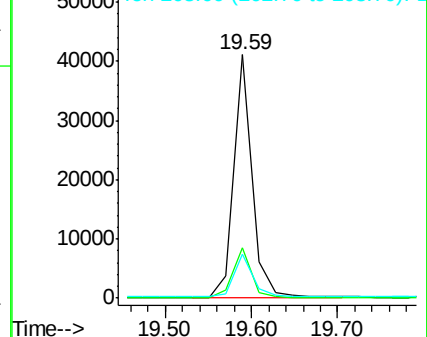
203 18.0 0.1 0.1#

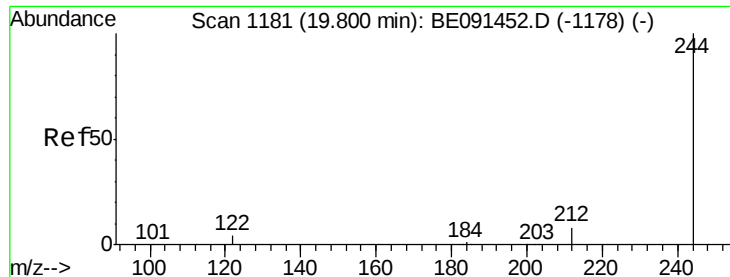


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 0.32 ng

RT: 19.80 min Scan# 1182

Delta R.T. 0.00 min

Lab File: BE091460.D

Acq: 17 Mar 2016 9:35

Instrument :

BNA_E

ClientSampleId :

ICVBE031716

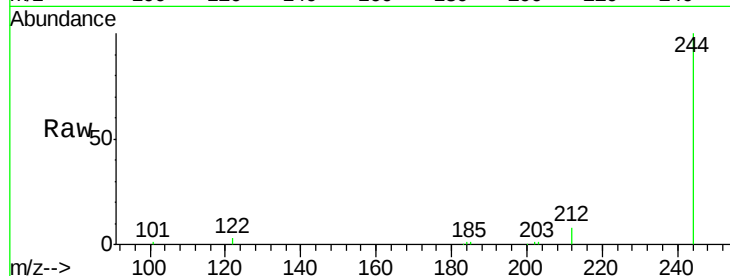
Tgt Ion:244 Resp: 30270

Ion Ratio Lower Upper

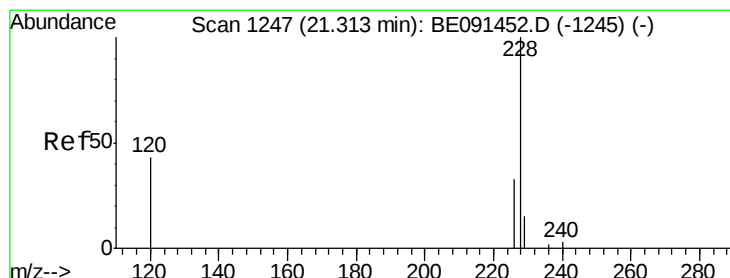
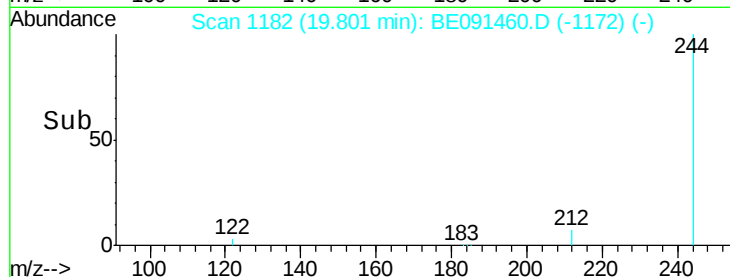
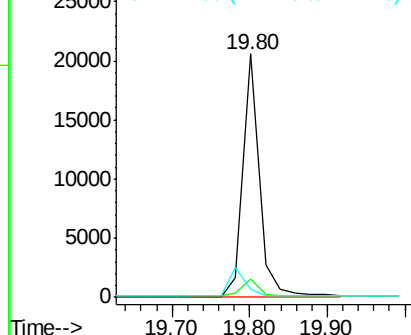
244 100

212 7.7 6.6 10.0

122 3.2 3.4 5.0#



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#22

Benzo(a)anthracene

Concen: 0.39 ng

RT: 21.31 min Scan# 1248

Delta R.T. -0.00 min

Lab File: BE091460.D

Acq: 17 Mar 2016 9:35

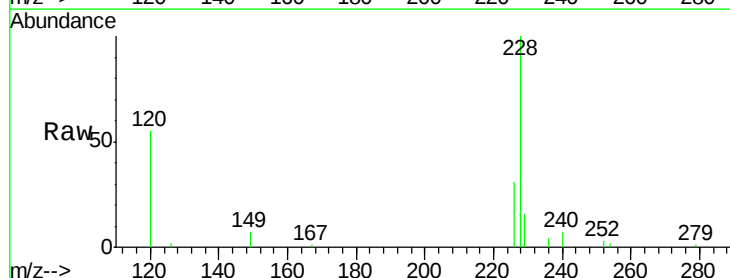
Tgt Ion:228 Resp: 85573

Ion Ratio Lower Upper

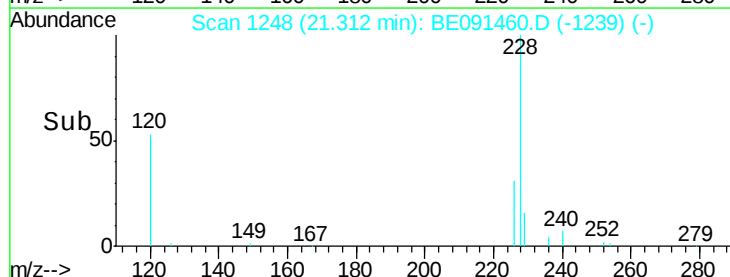
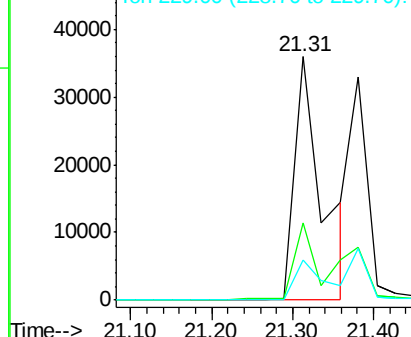
228 100

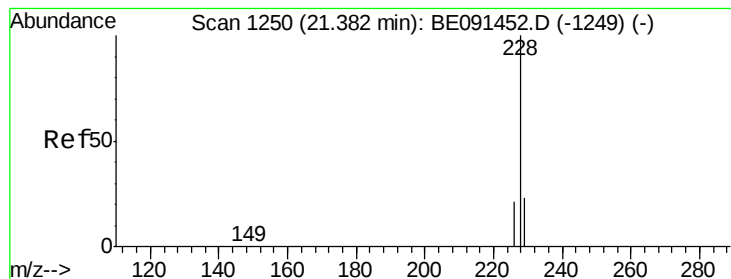
226 31.5 27.1 40.7

229 16.3 12.3 18.5



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: 0.39 ng m

RT: 21.38 min Scan# 1251

Delta R.T. 0.00 min

Lab File: BE091460.D

Acq: 17 Mar 2016 9:35

Instrument :

BNA_E

ClientSampleId :

ICVBE031716

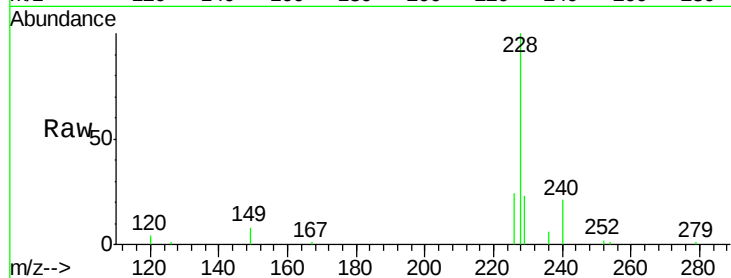
Tgt Ion:228 Resp: 72590

Ion Ratio Lower Upper

228 100

226 24.0 20.3 30.5

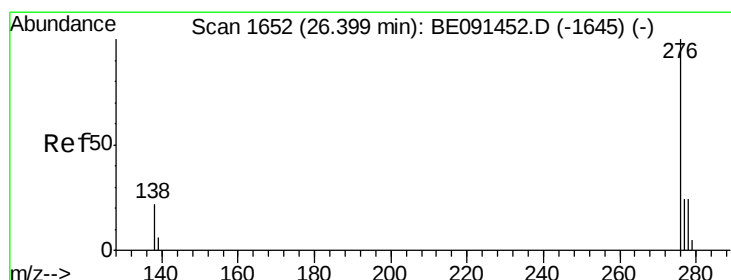
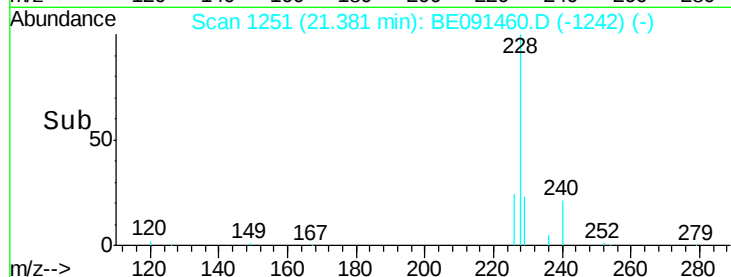
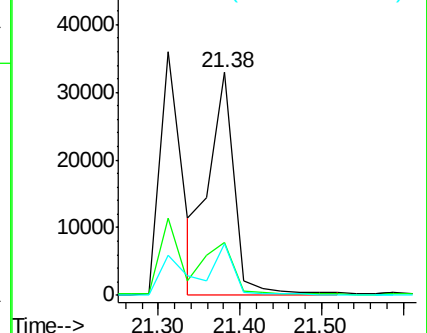
229 23.1 17.4 26.0



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: 0.33 ng

RT: 26.40 min Scan# 1653

Delta R.T. -0.00 min

Lab File: BE091460.D

Acq: 17 Mar 2016 9:35

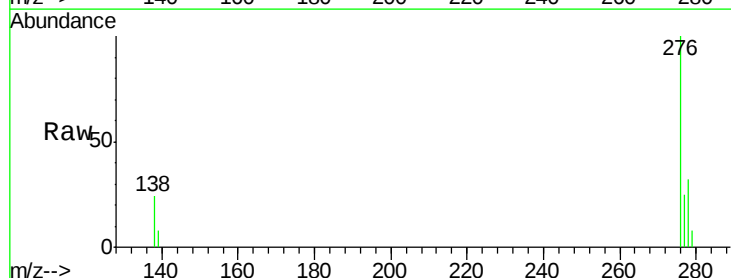
Tgt Ion:276 Resp: 70444

Ion Ratio Lower Upper

276 100

138 25.3 0.0 0.0#

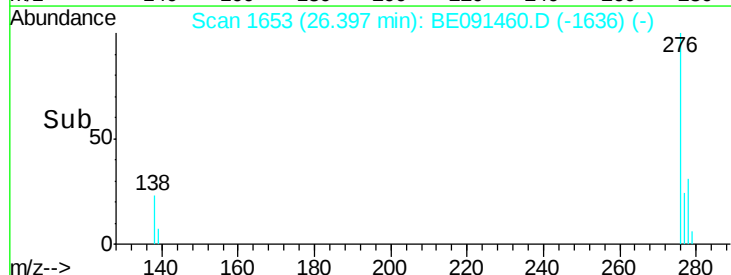
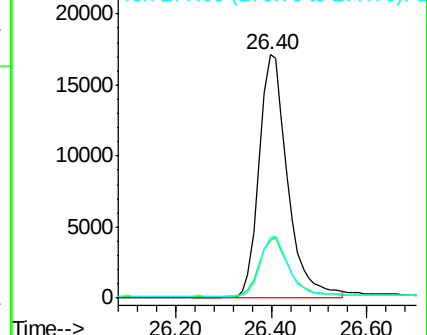
277 24.6 0.0 0.0#

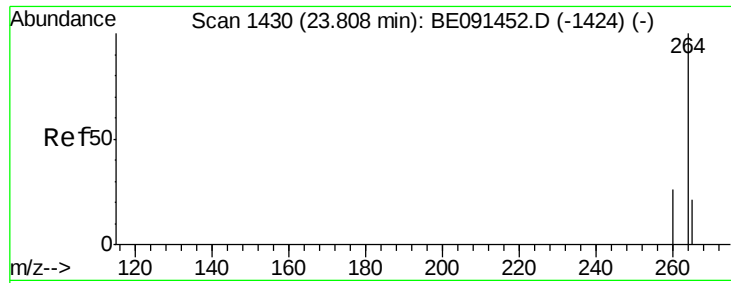


Abundance Ion 276.00 (275.70 to 276.70): E

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: 23.81 min Scan# 1431

Delta R.T. 0.00 min

Lab File: BE091460.D

Acq: 17 Mar 2016 9:35

Instrument :

BNA_E

ClientSampleId :

ICVBE031716

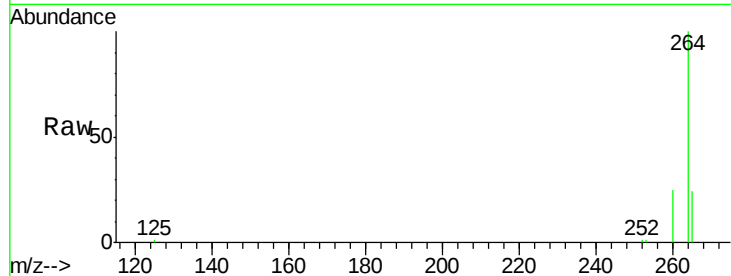
Tgt Ion:264 Resp: 589402

Ion Ratio Lower Upper

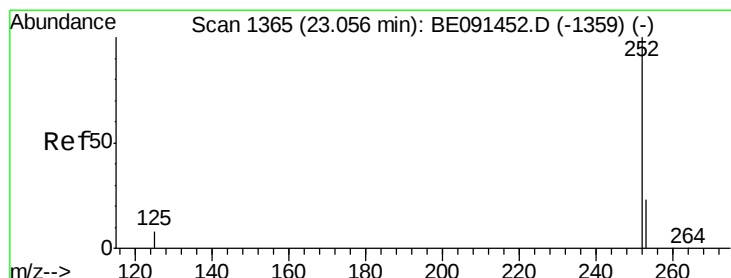
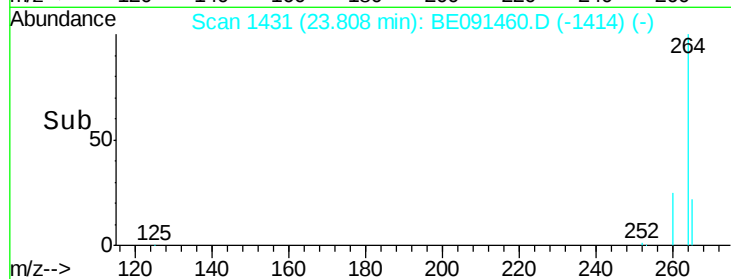
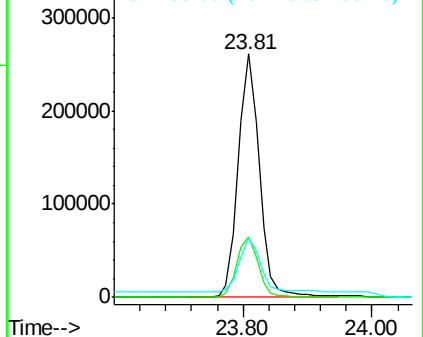
264 100

260 25.0 20.7 31.1

265 24.1 19.4 29.2



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: 0.34 ng

RT: 23.04 min Scan# 1365

Delta R.T. -0.01 min

Lab File: BE091460.D

Acq: 17 Mar 2016 9:35

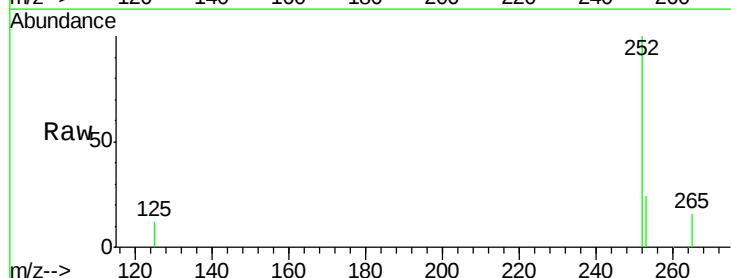
Tgt Ion:252 Resp: 67812

Ion Ratio Lower Upper

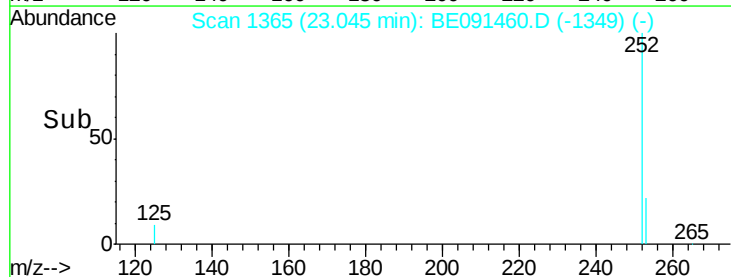
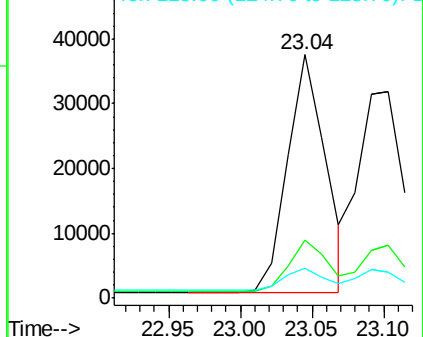
252 100

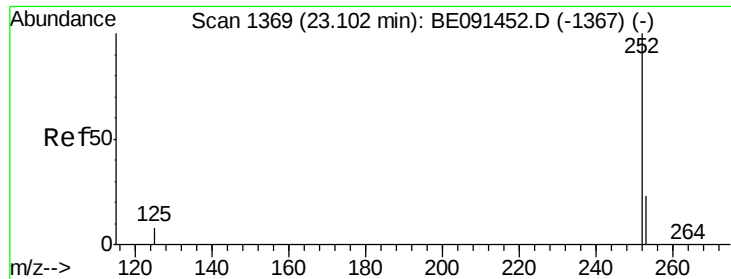
253 23.9 20.6 30.8

125 12.4 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





#27

Benzo(k)fluoranthene

Concen: 0.38 ng

RT: 23.10 min Scan# 1370

Delta R.T. 0.00 min

Lab File: BE091460.D

Acq: 17 Mar 2016 9:35

Instrument :

BNA_E

ClientSampleId :

ICVBE031716

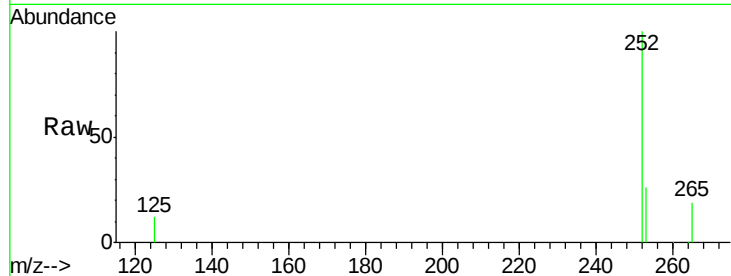
Tgt Ion:252 Resp: 70809

Ion Ratio Lower Upper

252 100

253 25.5 20.2 30.2

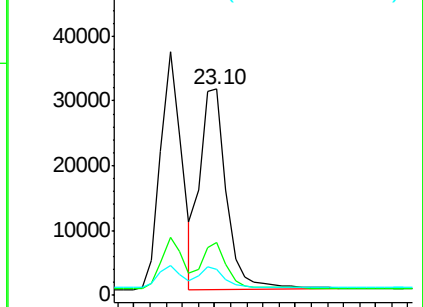
125 12.4 10.6 16.0



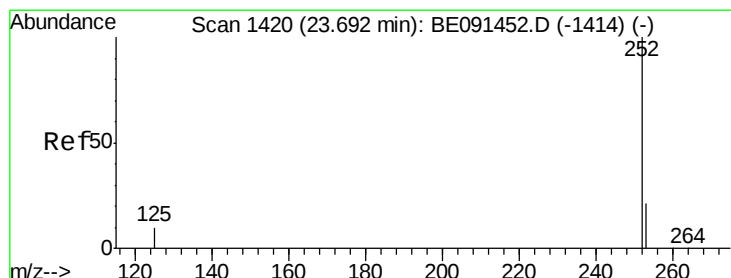
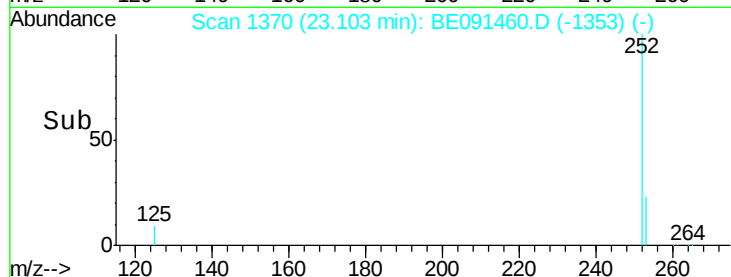
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->



#28

Benzo(a)pyrene

Concen: 0.34 ng

RT: 23.69 min Scan# 1421

Delta R.T. 0.00 min

Lab File: BE091460.D

Acq: 17 Mar 2016 9:35

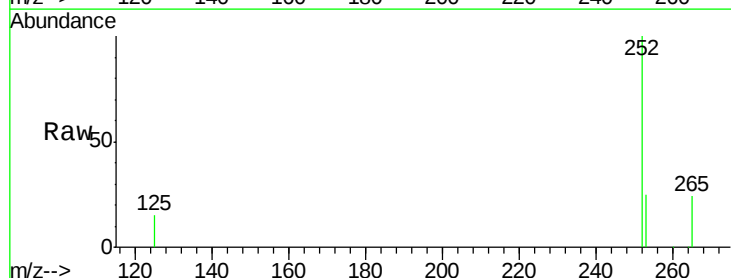
Tgt Ion:252 Resp: 58891

Ion Ratio Lower Upper

252 100

253 25.3 20.0 30.0

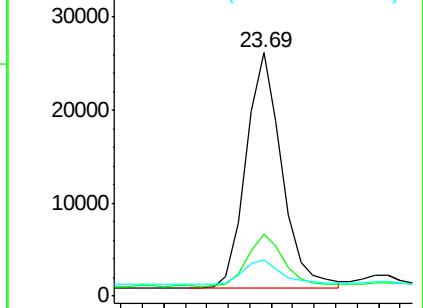
125 14.7 12.7 19.1



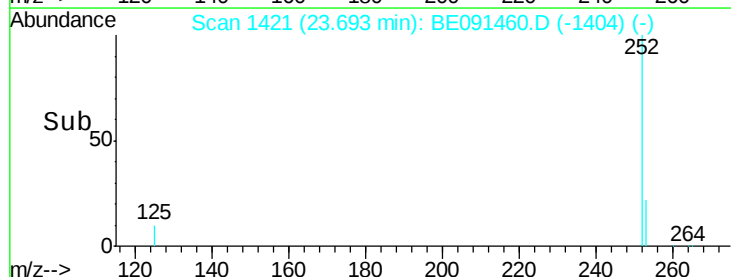
Abundance Ion 252.00 (251.70 to 252.70): E

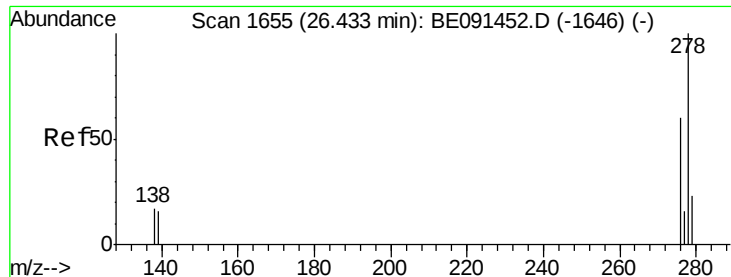
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->





#29

Dibenzo(a,h)anthracene

Concen: 0.35 ng

RT: 26.42 min Scan# 1655

Delta R.T. -0.01 min

Lab File: BE091460.D

Acq: 17 Mar 2016 9:35

Instrument :

BNA_E

ClientSampleId :

ICVBE031716

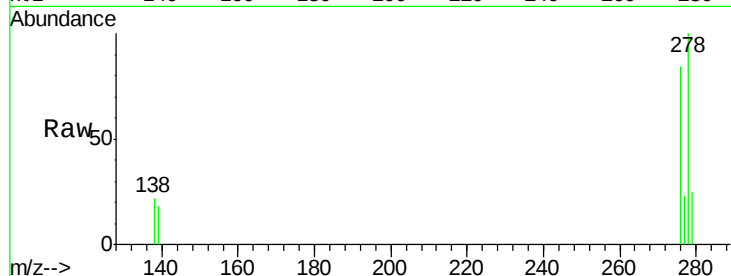
Tgt Ion: 278 Resp: 58586

Ion Ratio Lower Upper

278 100

139 17.6 13.3 19.9

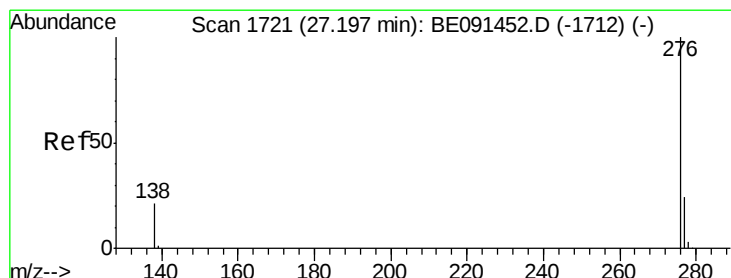
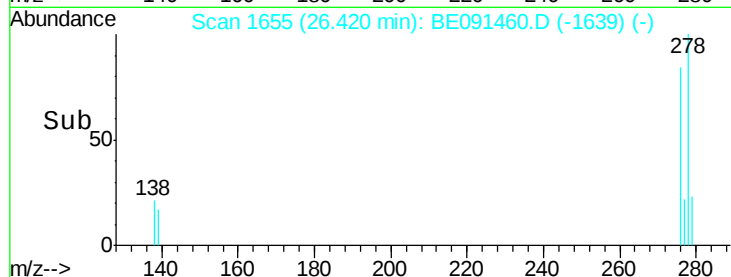
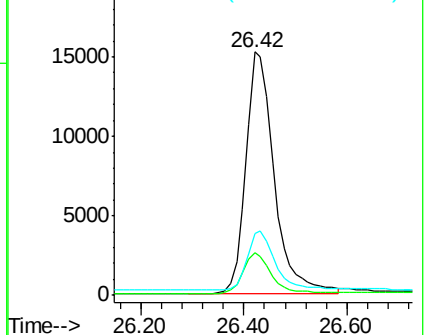
279 25.2 20.9 31.3



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: 0.37 ng

RT: 27.20 min Scan# 1722

Delta R.T. -0.00 min

Lab File: BE091460.D

Acq: 17 Mar 2016 9:35

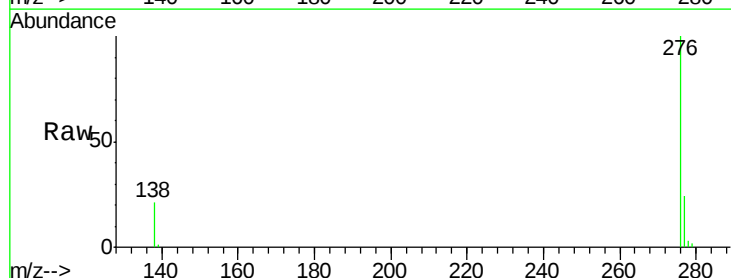
Tgt Ion: 276 Resp: 63332

Ion Ratio Lower Upper

276 100

277 24.3 19.8 29.8

138 20.9 17.6 26.4



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

