

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020315\
 Data File : BE089485.D
 Acq On : 4 Feb 2015 6:00
 Operator : TP/IZ
 Sample : G1110-12
 Misc :
 ALS Vial : 64 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MPE-1

Quant Time: Feb 04 06:47:21 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE020315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 04 00:53:32 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.53	152	217360	5.00	ng	0.00
7) Naphthalene-d8	12.43	136	852808	5.00	ng	0.00
13) Acenaphthene-d10	16.62	164	409200	5.00	ng	0.00
17) Phenanthrene-d10	19.94	188	636935	5.00	ng	0.01
20) Chrysene-d12	23.81	240	511278	5.00	ng	0.03
27) Perylene-d12	25.53	264	511582	5.00	ng	0.04

System Monitoring Compounds						
3) 2-Fluorophenol	6.74	112	196980	2.80	ng	0.02
4) Phenol-d6	8.86	99	153625	1.74	ng	0.03
8) Nitrobenzene-d5	10.80	82	467535	7.25	ng	0.01
14) 2,4,6-Tribromophenol	18.53	330	136806	7.75	ng	0.02
15) 2-Fluorobiphenyl	15.07	172	649892	6.03	ng	0.00
22) Terphenyl-d14	22.45	244	576819	7.96	ng	0.02

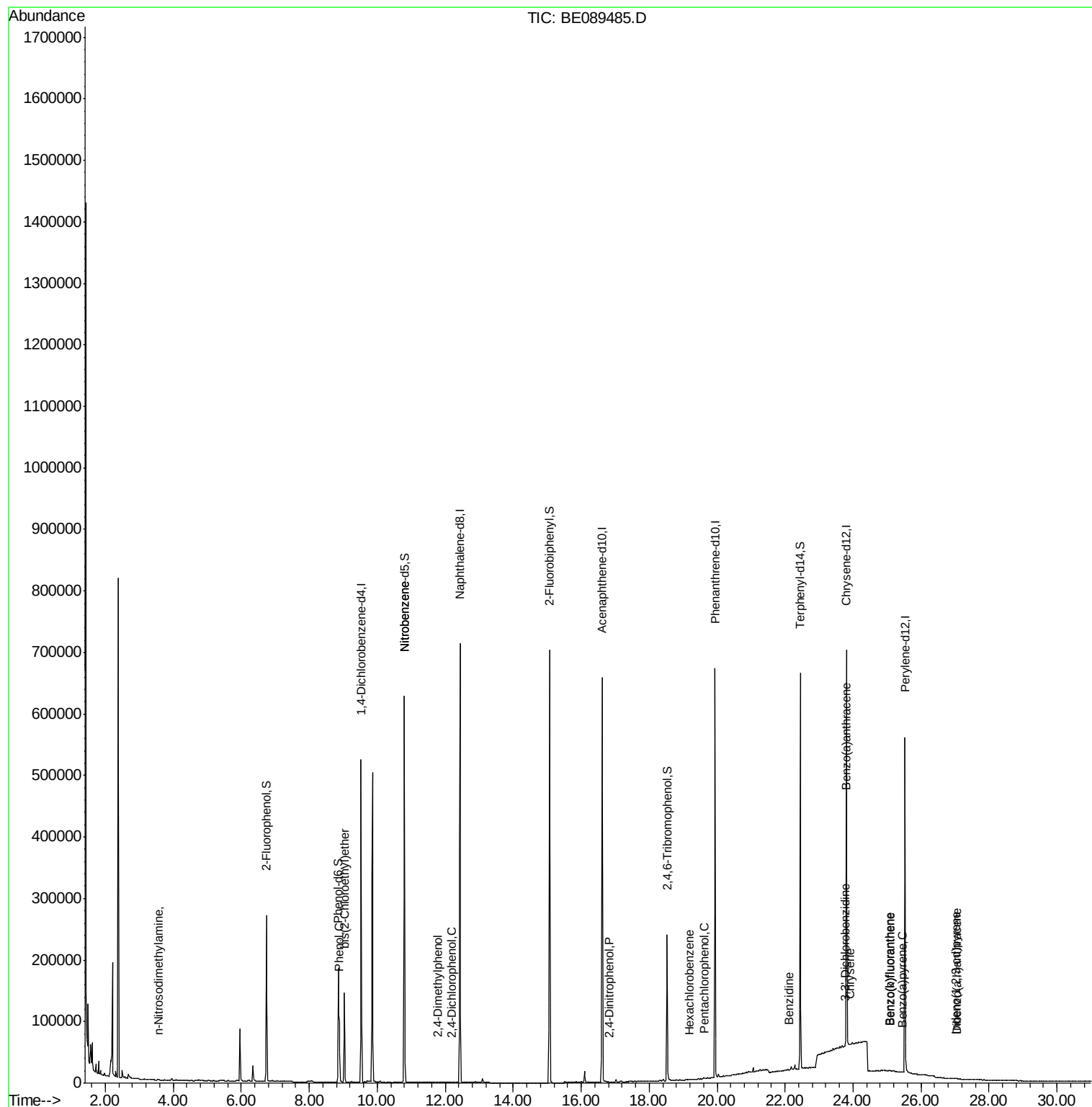
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	3.56	42	345	0.09	ng	# 1
5) Phenol	8.89	94	54053	0.56	ng	# 56
6) bis(2-Chloroethyl)ether	9.04	93	687	0.01	ng	# 1
9) Nitrobenzene	10.80	77	1792	0.02	ng	# 38
10) 2,4-Dimethylphenol	11.79	122	344	0.01	ng	# 73
11) 2,4-Dichlorophenol	12.17	162	179	0.00	ng	# 39
16) 2,4-Dinitrophenol	16.84	184	11	0.40	ng	# 1
18) Hexachlorobenzene	19.18	284	40	0.00	ng	# 1
19) Pentachlorophenol	19.62	266	255	0.38	ng	# 81
21) Benzidine	22.12	184	119	0.09	ng	# 1
23) Benzo(a)anthracene	23.79	228	14879	0.03	ng	# 1
24) 3,3'-Dichlorobenzidine	23.77	252	387	0.13	ng	# 1
25) Chrysene	23.89	228	576	0.00	ng	# 1
26) Indeno(1,2,3-cd)pyrene	27.02	276	475	0.14	ng	# 32
28) Benzo(b)fluoranthene	25.07	252	627	0.19	ng	# 1
29) Benzo(k)fluoranthene	25.10	252	605	0.00	ng	# 1
30) Benzo(a)pyrene	25.45	252	827	0.18	ng	# 1
31) Dibenzo(a,h)anthracene	27.05	278	533	0.15	ng	# 1

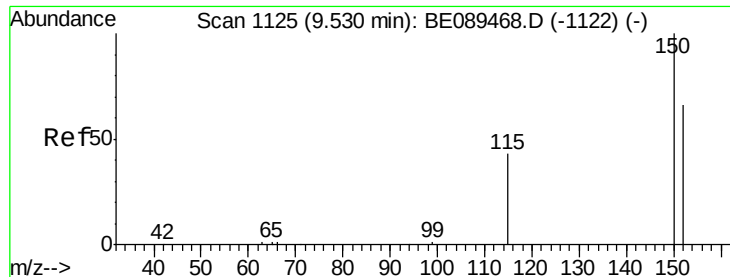
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.53 min Scan# 1125

Delta R.T. -0.00 min

Lab File: BE089485.D

Acq: 4 Feb 2015 6:00

Instrument :

BNA_E

ClientSampleId :

MPE-1

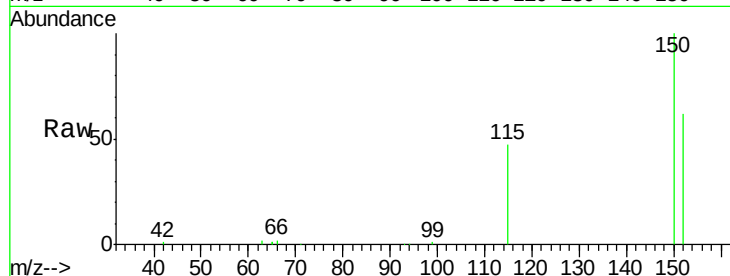
Tgt Ion:152 Resp: 217360

Ion Ratio Lower Upper

152 100

150 162.1 122.1 183.1

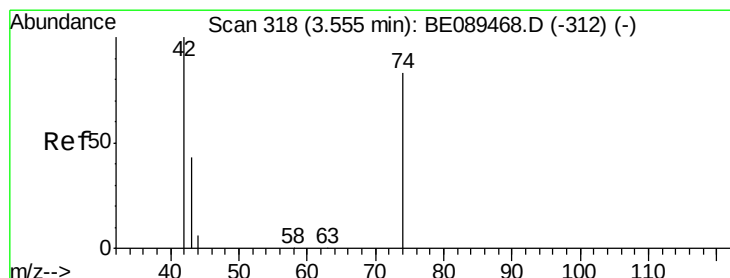
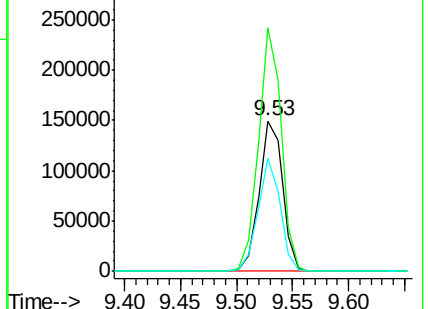
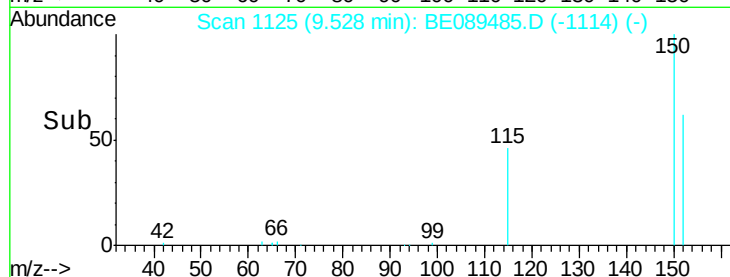
115 75.4 53.2 79.8



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

n-Nitrosodimethylamine

Concen: 0.09 ng

RT: 3.56 min Scan# 319

Delta R.T. 0.01 min

Lab File: BE089485.D

Acq: 4 Feb 2015 6:00

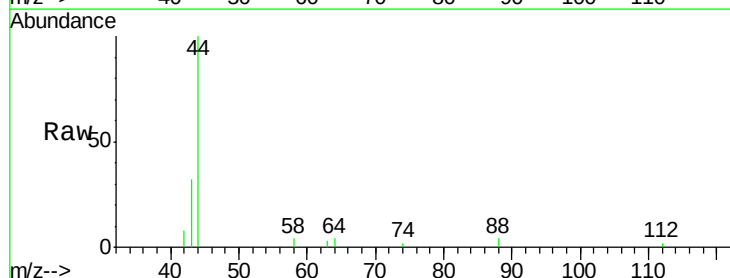
Tgt Ion: 42 Resp: 345

Ion Ratio Lower Upper

42 100

74 27.9 65.4 98.2#

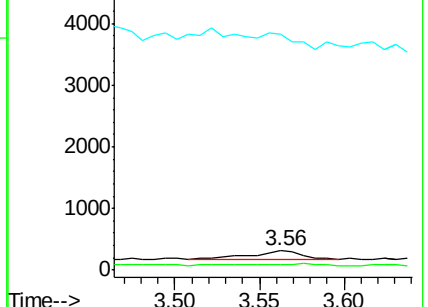
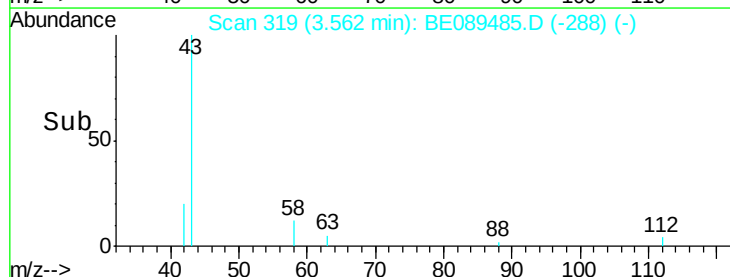
44 1245.1 11.7 17.5#

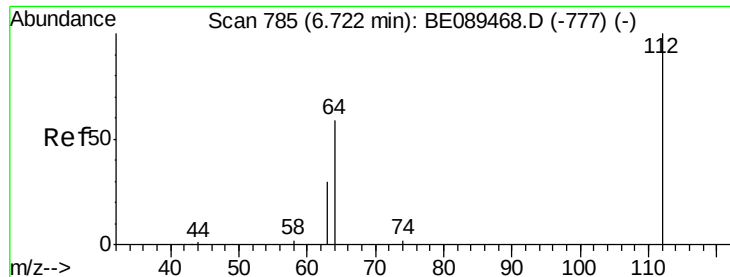


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0

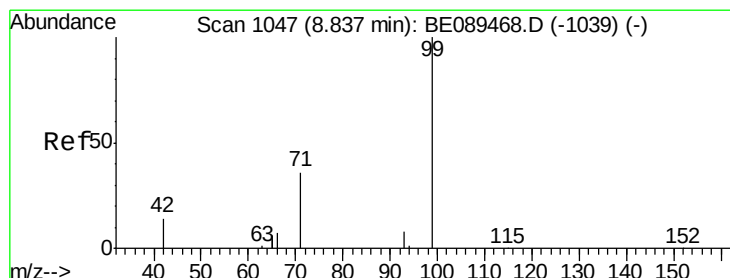
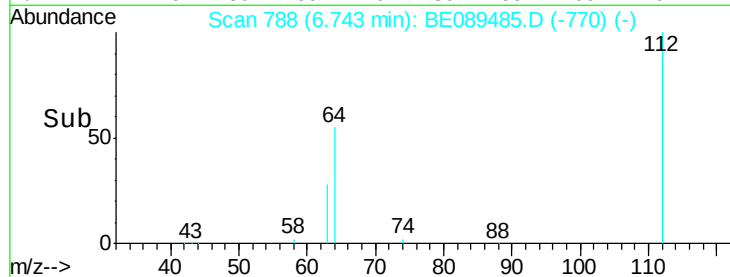
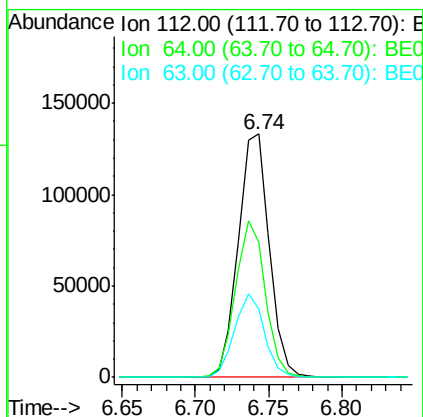
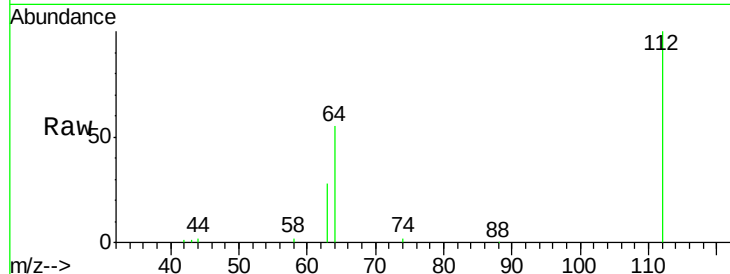




#3
 2-Fluorophenol
 Concen: 2.80 ng
 RT: 6.74 min Scan# 788
 Delta R.T. 0.02 min
 Lab File: BE089485.D
 Acq: 4 Feb 2015 6:00

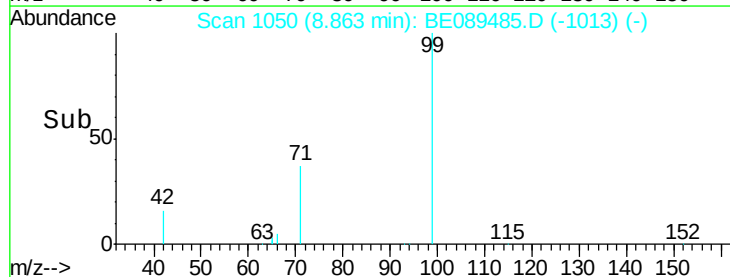
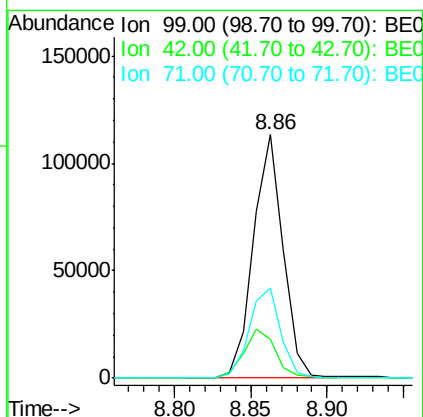
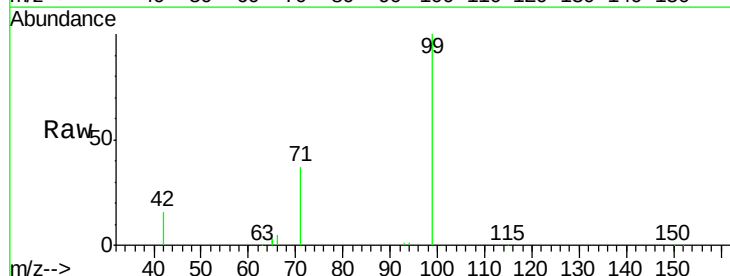
Instrument :
 BNA_E
 ClientSampleId :
 MPE-1

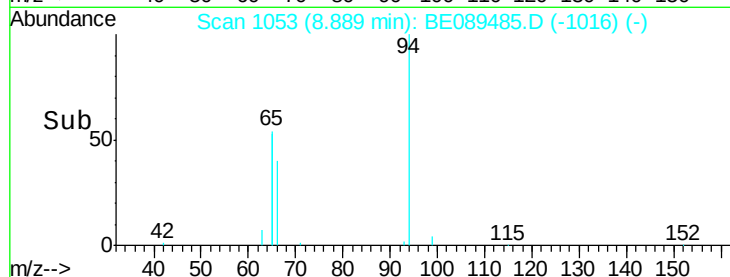
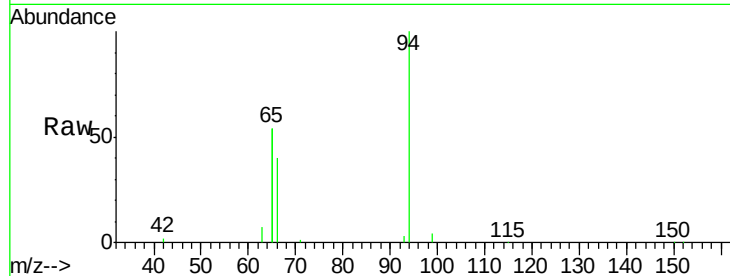
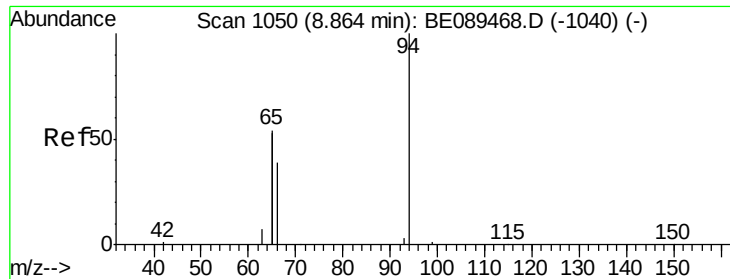
Tgt Ion: 112 Resp: 196980
 Ion Ratio Lower Upper
 112 100
 64 55.4 47.0 70.6
 63 28.0 24.2 36.2



#4
 Phenol-d6
 Concen: 1.74 ng
 RT: 8.86 min Scan# 1050
 Delta R.T. 0.03 min
 Lab File: BE089485.D
 Acq: 4 Feb 2015 6:00

Tgt Ion: 99 Resp: 153625
 Ion Ratio Lower Upper
 99 100
 42 16.0 11.8 17.6
 71 36.8 28.7 43.1





#5

Phenol

Concen: 0.56 ng

RT: 8.89 min Scan# 1053

Delta R.T. 0.03 min

Lab File: BE089485.D

Acq: 4 Feb 2015 6:00

Instrument :

BNA_E

ClientSampleId :

MPE-1

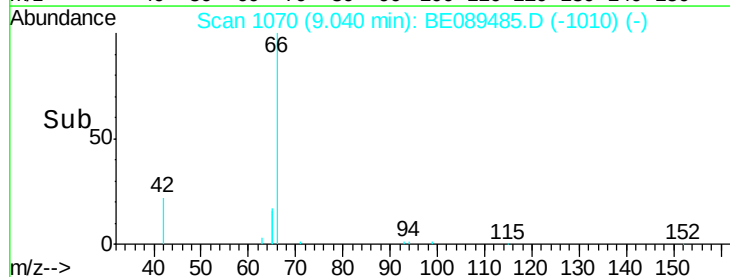
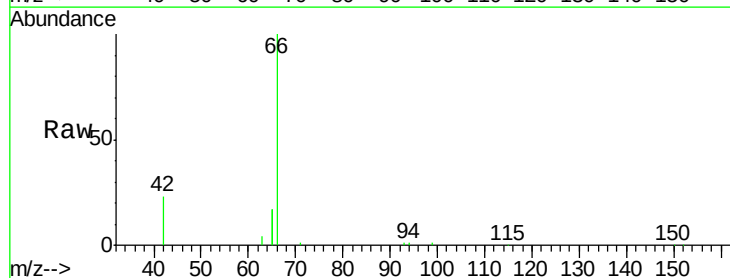
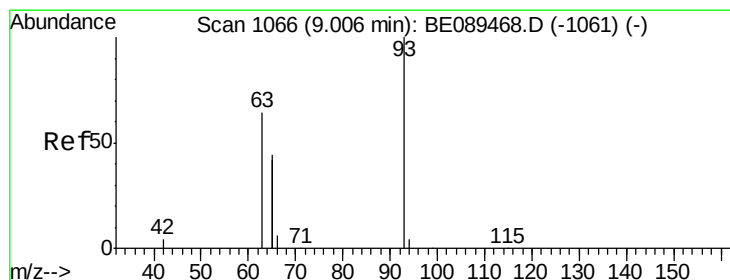
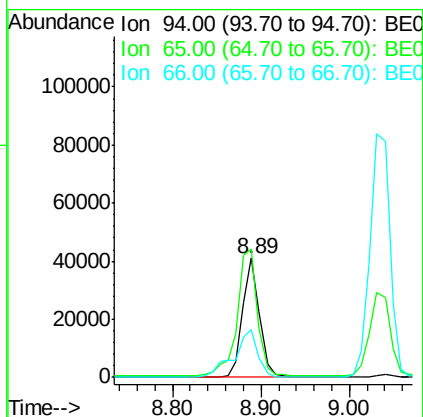
Tgt Ion: 94 Resp: 54053

Ion Ratio Lower Upper

94 100

65 107.8 33.9 73.9#

66 39.6 19.1 59.1



#6

bis(2-Chloroethyl)ether

Concen: 0.01 ng

RT: 9.04 min Scan# 1070

Delta R.T. 0.03 min

Lab File: BE089485.D

Acq: 4 Feb 2015 6:00

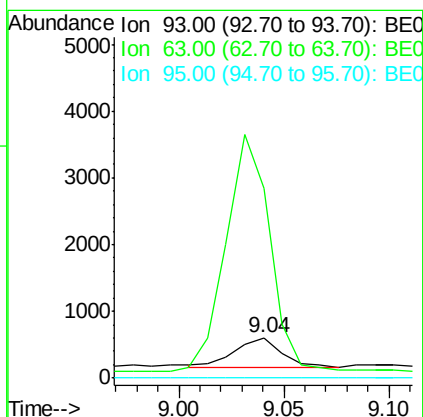
Tgt Ion: 93 Resp: 687

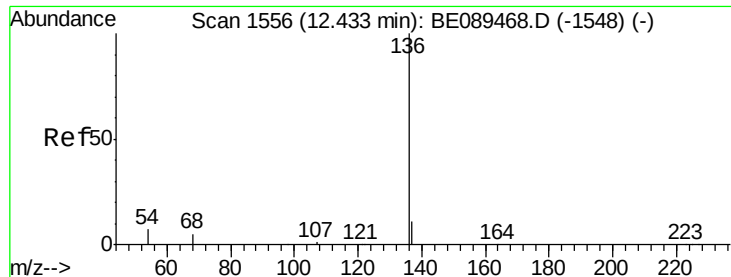
Ion Ratio Lower Upper

93 100

63 770.7 57.0 85.6#

95 0.0 0.0 0.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 12.43 min Scan# 1556

Delta R.T. 0.00 min

Lab File: BE089485.D

Acq: 4 Feb 2015 6:00

Instrument :

BNA_E

ClientSampleId :

MPE-1

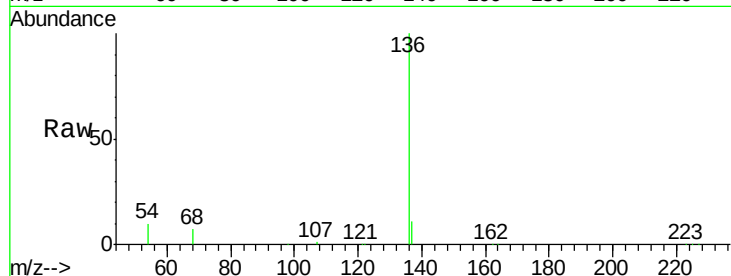
Tgt Ion: 136 Resp: 852808

Ion Ratio Lower Upper

136 100

137 10.8 8.6 13.0

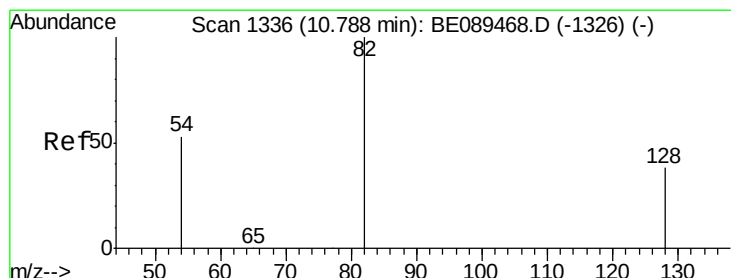
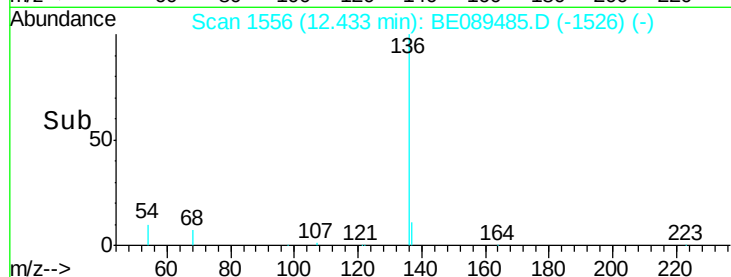
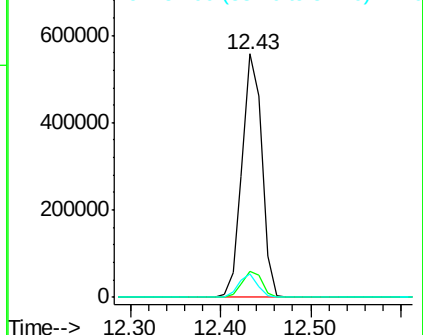
54 9.6 5.4 8.0#



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



#8

Nitrobenzene-d5

Concen: 7.25 ng

RT: 10.80 min Scan# 1339

Delta R.T. 0.01 min

Lab File: BE089485.D

Acq: 4 Feb 2015 6:00

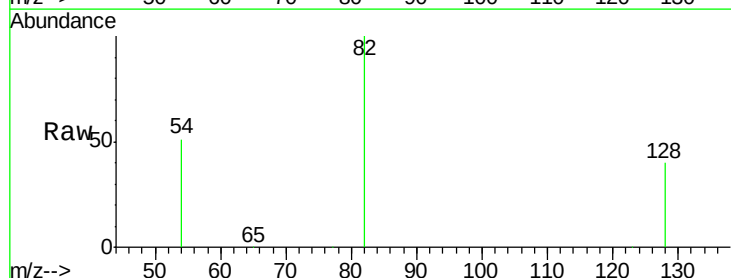
Tgt Ion: 82 Resp: 467535

Ion Ratio Lower Upper

82 100

128 39.6 30.3 45.5

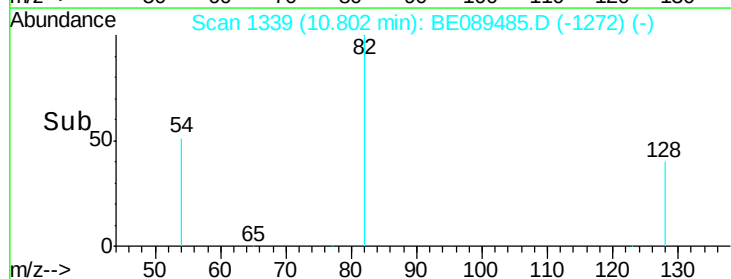
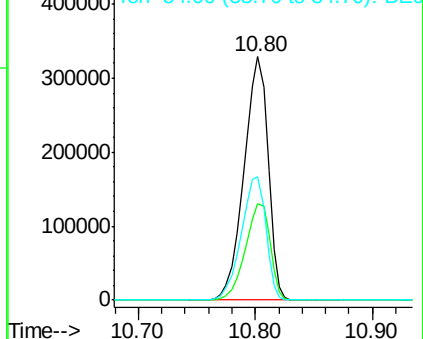
54 50.8 43.1 64.7

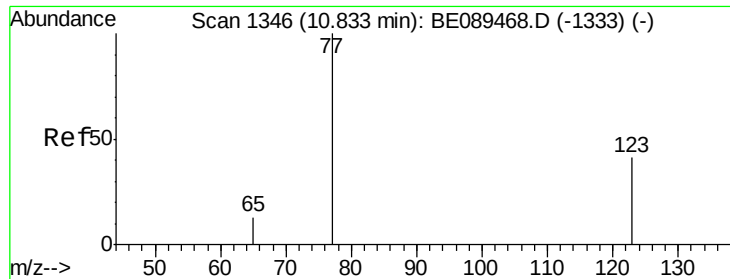


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Nitrobenzene

Concen: 0.02 ng

RT: 10.80 min Scan# 1339

Delta R.T. -0.03 min

Lab File: BE089485.D

Acq: 4 Feb 2015 6:00

Instrument :

BNA_E

ClientSampleId :

MPE-1

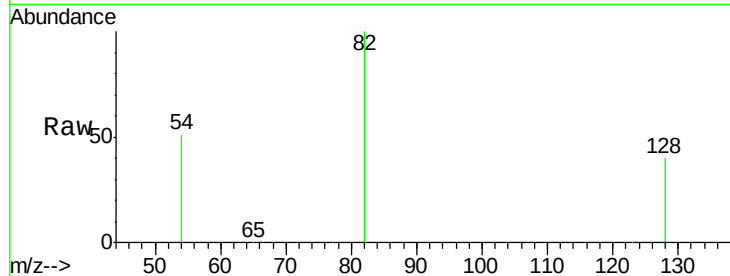
Tgt Ion: 77 Resp: 1792

Ion Ratio Lower Upper

77 100

123 0.0 33.4 50.0#

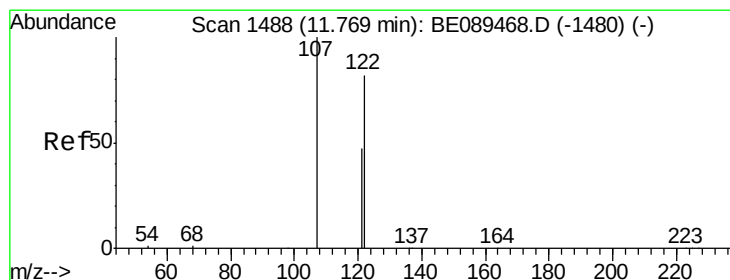
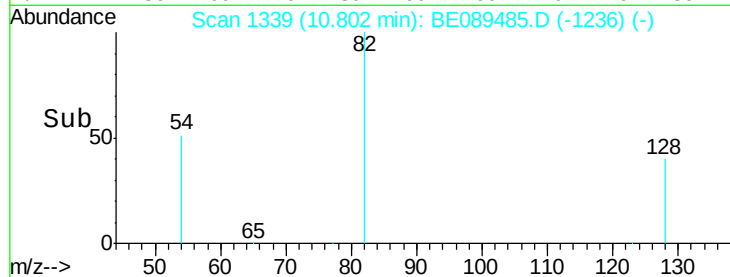
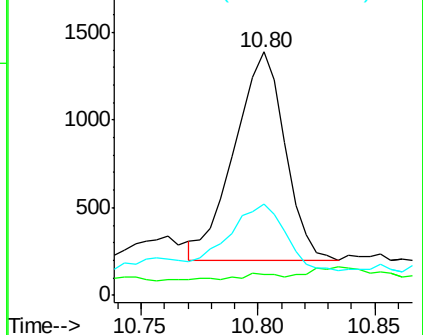
65 34.0 10.9 16.3#



Abundance Ion 77.00 (76.70 to 77.70): BE0

Ion 123.00 (122.70 to 123.70): BE0

Ion 65.00 (64.70 to 65.70): BE0



#10

2,4-Dimethylphenol

Concen: 0.01 ng

RT: 11.79 min Scan# 1490

Delta R.T. 0.02 min

Lab File: BE089485.D

Acq: 4 Feb 2015 6:00

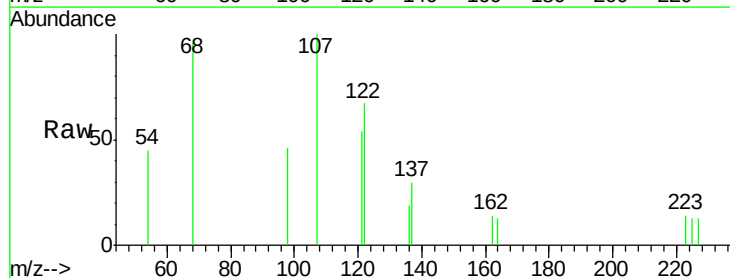
Tgt Ion: 122 Resp: 344

Ion Ratio Lower Upper

122 100

107 149.8 97.3 145.9#

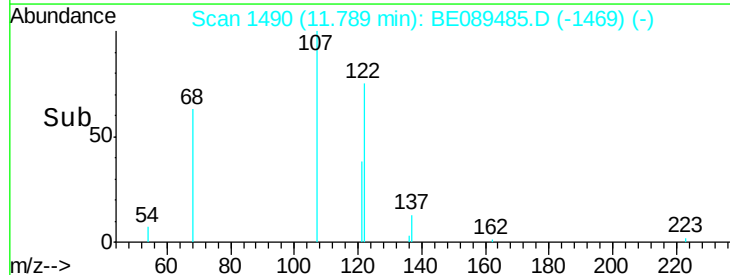
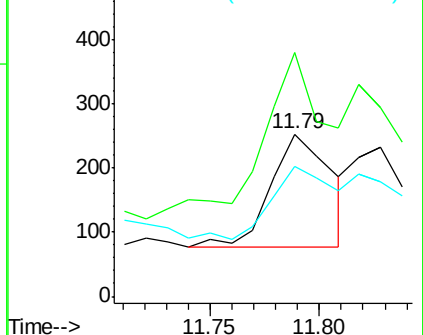
121 80.2 46.4 69.6#

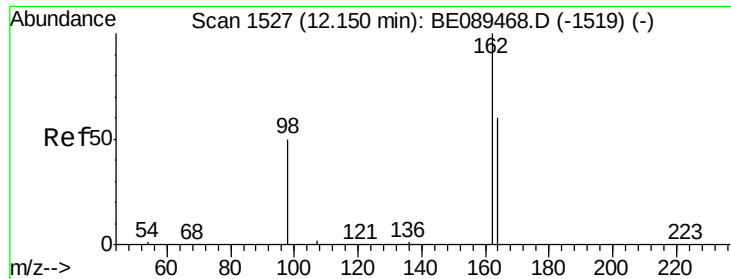


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E

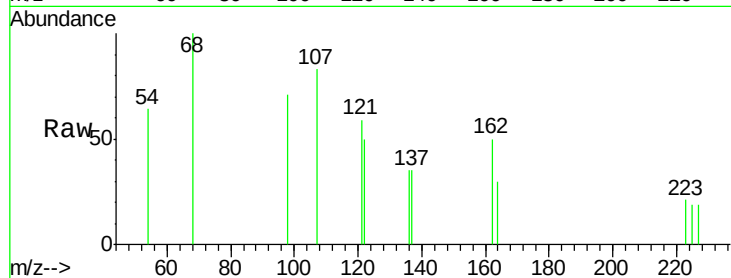




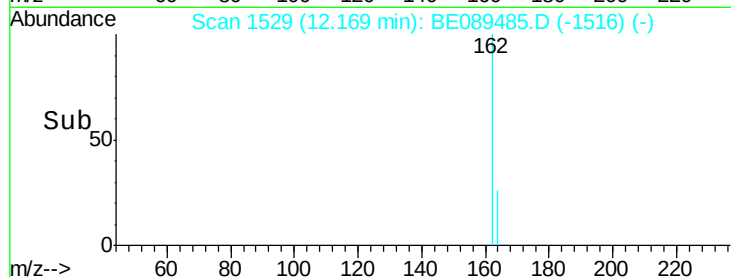
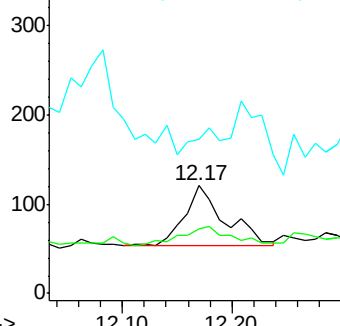
#11
2,4-Dichlorophenol
Concen: 0.00 ng
RT: 12.17 min Scan# 1529
Delta R.T. 0.02 min
Lab File: BE089485.D
Acq: 4 Feb 2015 6:00

Instrument :
BNA_E
ClientSampled :
MPE-1

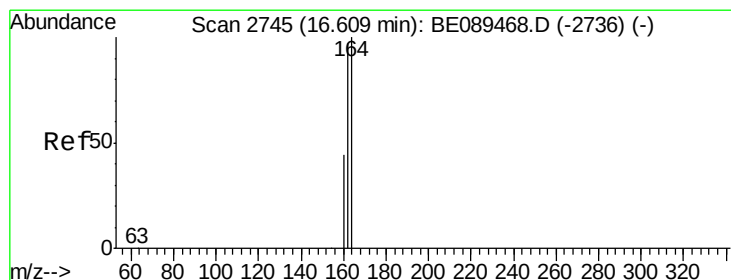
Tgt Ion:162 Resp: 179
Ion Ratio Lower Upper
162 100
164 60.3 39.9 79.9
98 143.0 31.3 71.3#



Abundance Ion 162.00 (161.70 to 162.70): E
Ion 164.00 (163.70 to 164.70): E
Ion 98.00 (97.70 to 98.70): BE0

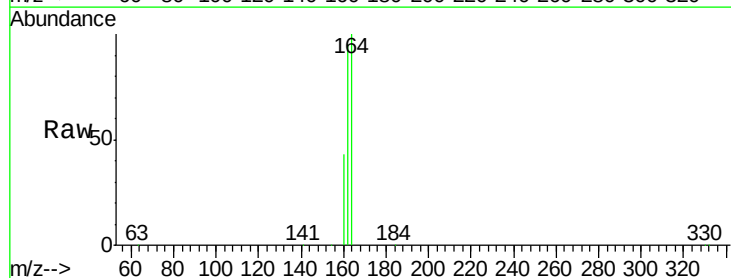


Time-->

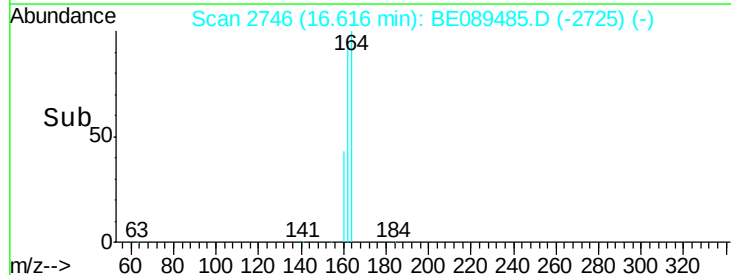
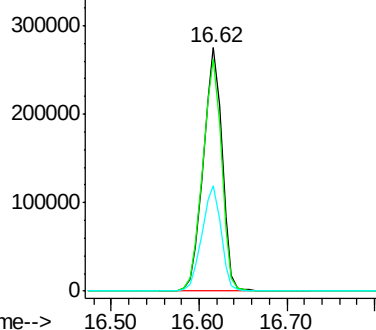


#13
Acenaphthene-d10
Concen: 5.00 ng
RT: 16.62 min Scan# 2746
Delta R.T. 0.01 min
Lab File: BE089485.D
Acq: 4 Feb 2015 6:00

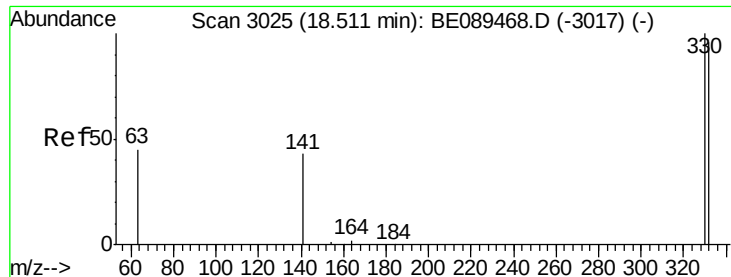
Tgt Ion:164 Resp: 409200
Ion Ratio Lower Upper
164 100
162 95.4 77.6 116.4
160 43.2 35.6 53.4



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



Time-->



#14

2,4,6-Tribromophenol

Concen: 7.75 ng

RT: 18.53 min Scan# 3028

Delta R.T. 0.02 min

Lab File: BE089485.D

Acq: 4 Feb 2015 6:00

Instrument :

BNA_E

ClientSampled :

MPE-1

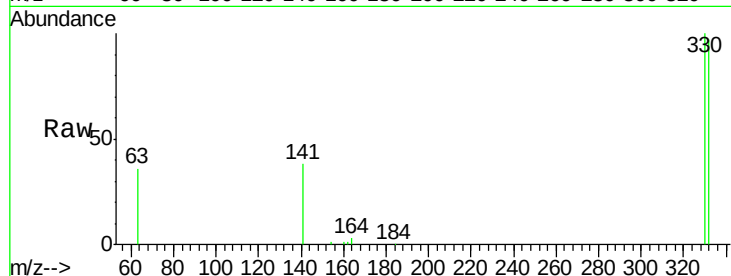
Tgt Ion:330 Resp: 136806

Ion Ratio Lower Upper

330 100

332 96.4 78.0 117.0

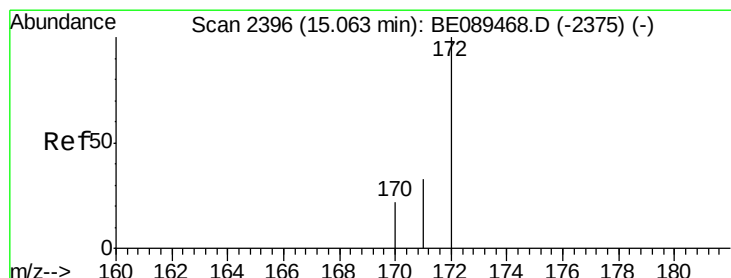
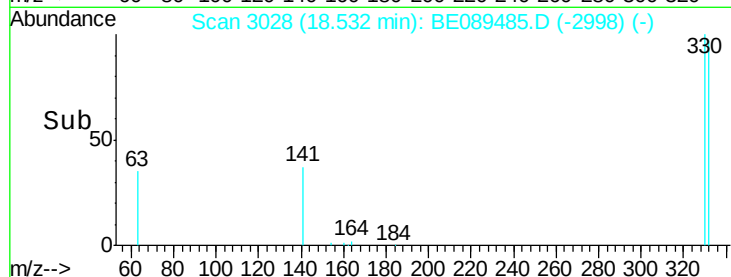
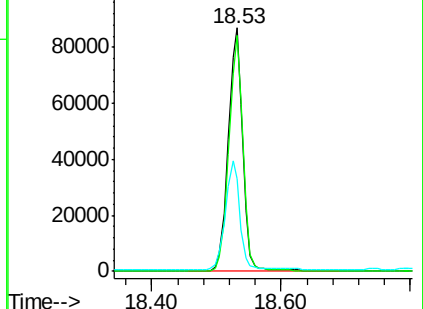
141 44.5 33.8 50.6



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



#15

2-Fluorobiphenyl

Concen: 6.03 ng

RT: 15.07 min Scan# 2398

Delta R.T. 0.01 min

Lab File: BE089485.D

Acq: 4 Feb 2015 6:00

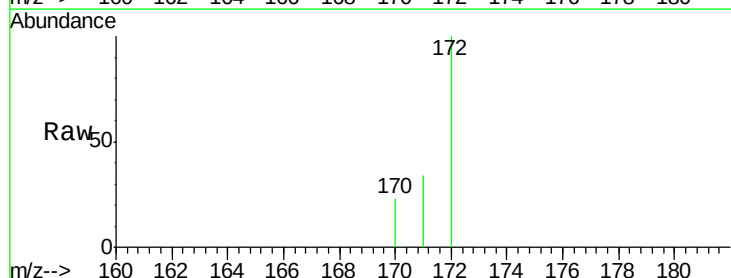
Tgt Ion:172 Resp: 649892

Ion Ratio Lower Upper

172 100

171 34.4 26.8 40.2

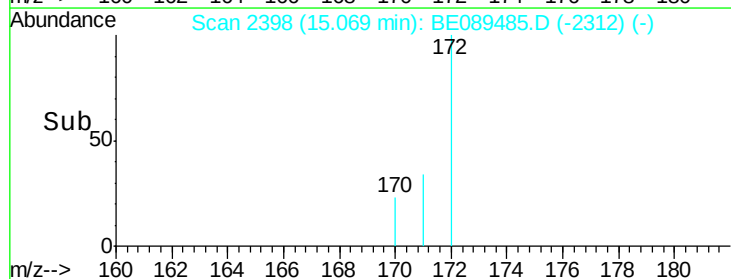
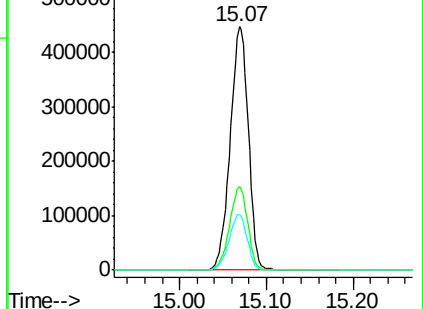
170 23.0 17.7 26.5

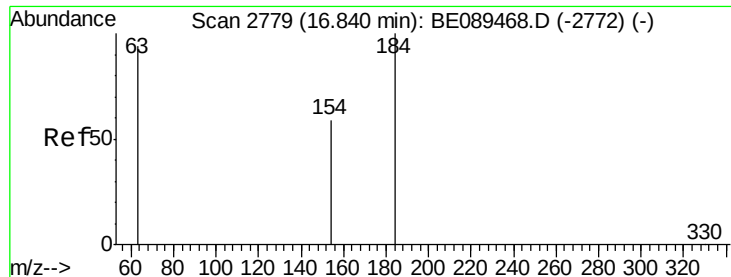


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

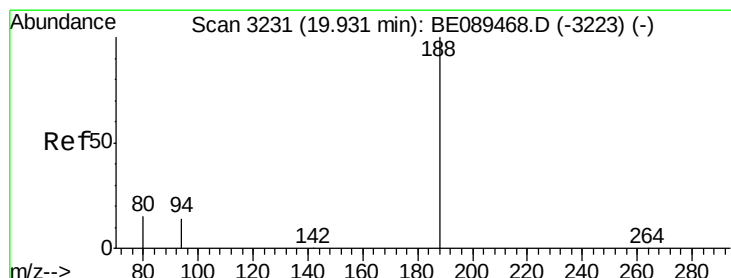
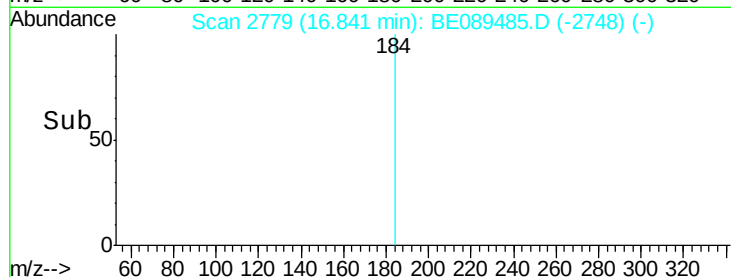
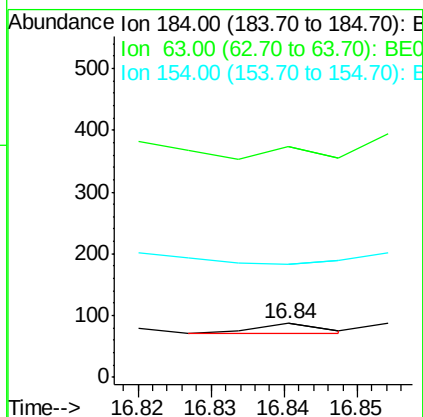
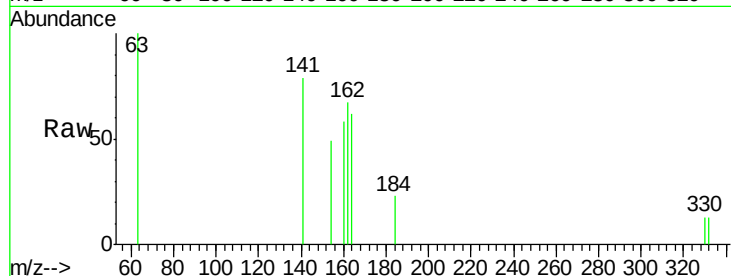




#16
 2,4-Dinitrophenol
 Concen: 0.40 ng
 RT: 16.84 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: BE089485.D
 Acq: 4 Feb 2015 6:00

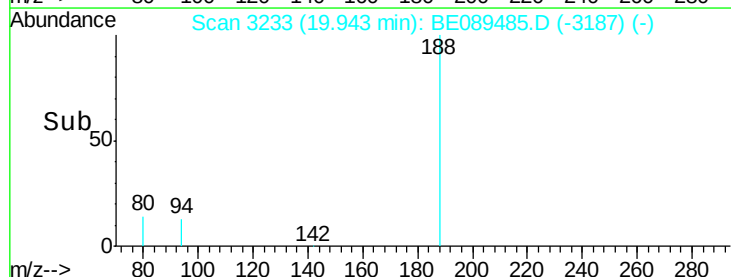
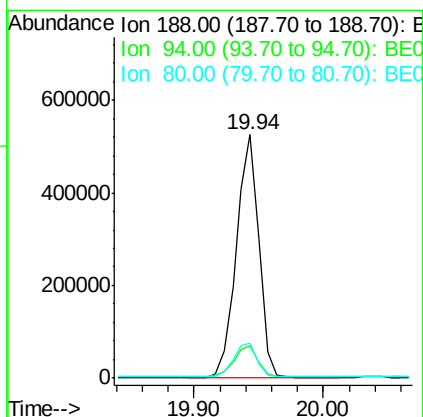
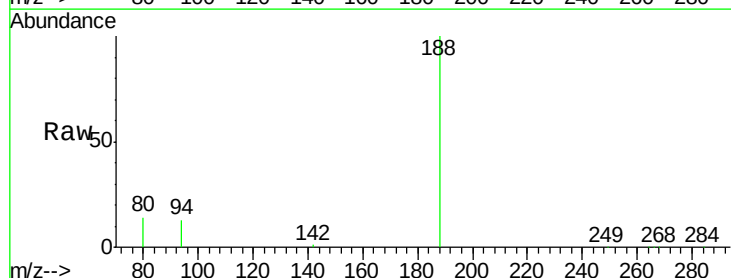
Instrument :
 BNA_E
 ClientSampleId :
 MPE-1

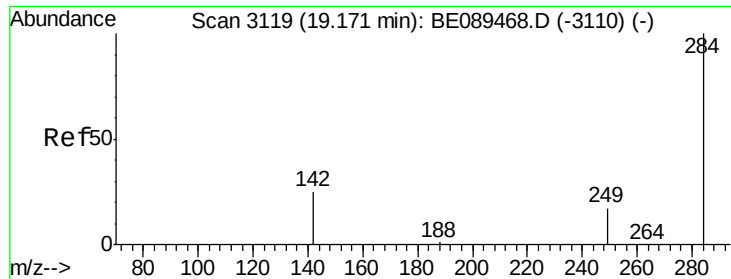
Tgt Ion:184 Resp: 11
 Ion Ratio Lower Upper
 184 100
 63 428.7 92.1 138.1#
 154 210.3 61.4 92.2#



#17
 Phenanthrene-d10
 Concen: 5.00 ng
 RT: 19.94 min Scan# 3233
 Delta R.T. 0.01 min
 Lab File: BE089485.D
 Acq: 4 Feb 2015 6:00

Tgt Ion:188 Resp: 636935
 Ion Ratio Lower Upper
 188 100
 94 13.4 11.1 16.7
 80 14.2 11.8 17.6

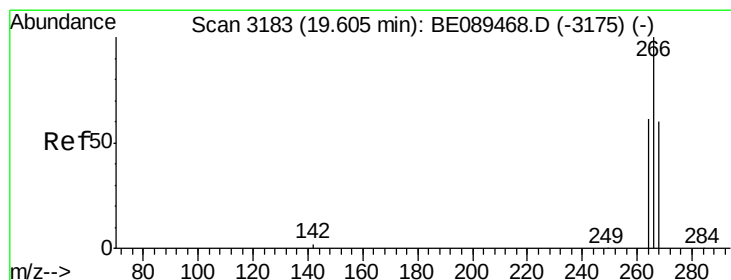
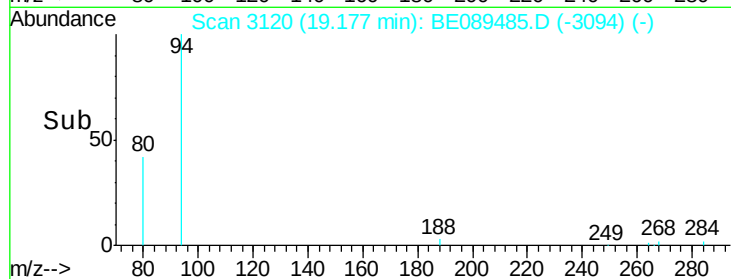
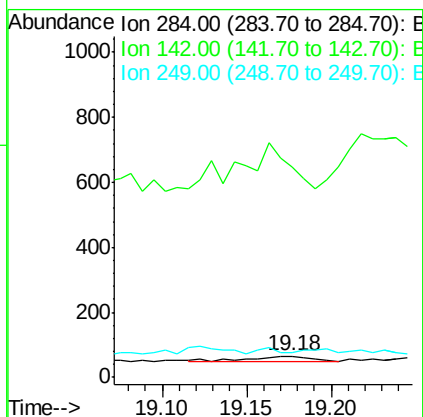
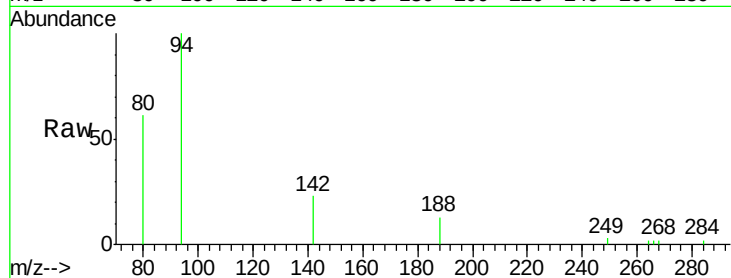




#18
Hexachlorobenzene
Concen: 0.00 ng
RT: 19.18 min Scan# 3120
Delta R.T. 0.01 min
Lab File: BE089485.D
Acq: 4 Feb 2015 6:00

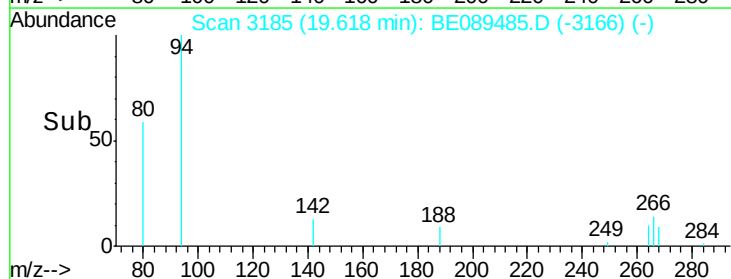
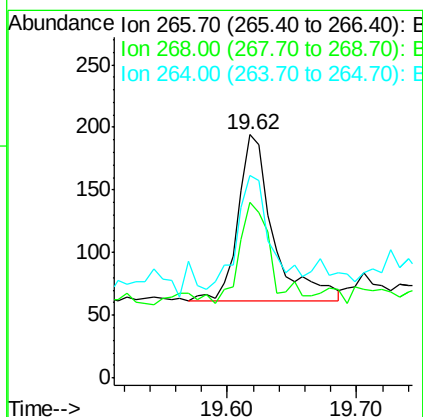
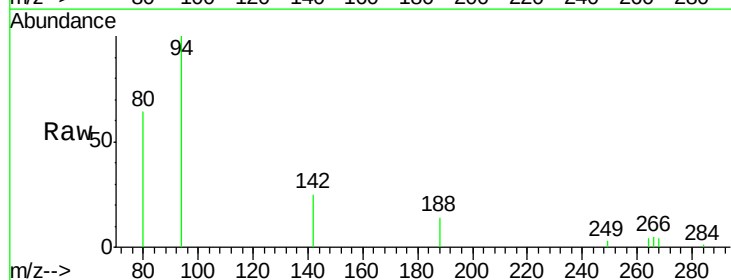
Instrument :
BNA_E
ClientSampleId :
MPE-1

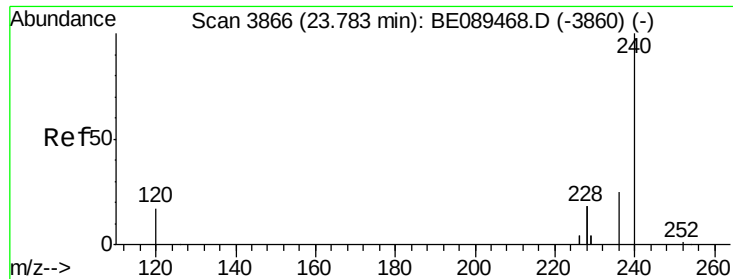
Tgt Ion: 284 Resp: 40
Ion Ratio Lower Upper
284 100
142 978.8 24.4 36.6#
249 115.2 18.2 27.2#



#19
Pentachlorophenol
Concen: 0.38 ng
RT: 19.62 min Scan# 3185
Delta R.T. 0.01 min
Lab File: BE089485.D
Acq: 4 Feb 2015 6:00

Tgt Ion: 266 Resp: 255
Ion Ratio Lower Upper
266 100
268 72.2 50.0 75.0
264 83.5 50.6 75.8#





#20

Chrysene-d12

Concen: 5.00 ng

RT: 23.81 min Scan# 3868

Delta R.T. 0.03 min

Lab File: BE089485.D

Acq: 4 Feb 2015 6:00

Instrument :

BNA_E

ClientSampleId :

MPE-1

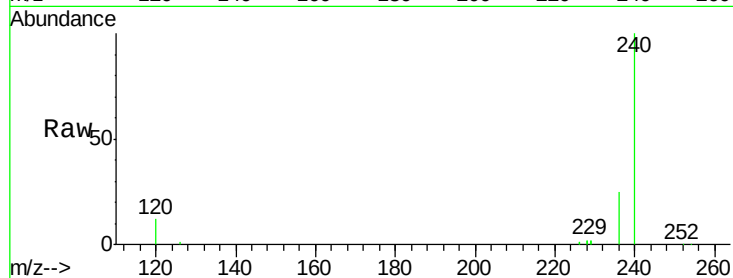
Tgt Ion:240 Resp: 511278

Ion Ratio Lower Upper

240 100

120 11.9 13.8 20.6#

236 24.8 20.2 30.2



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

23.81

400000

300000

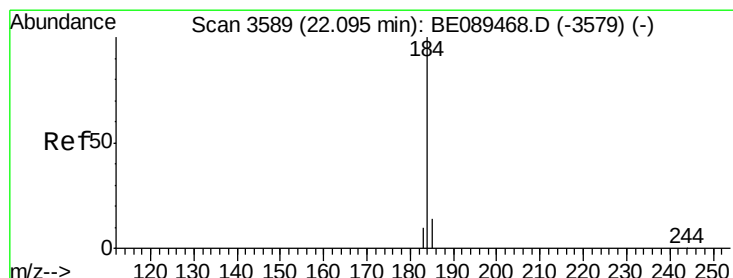
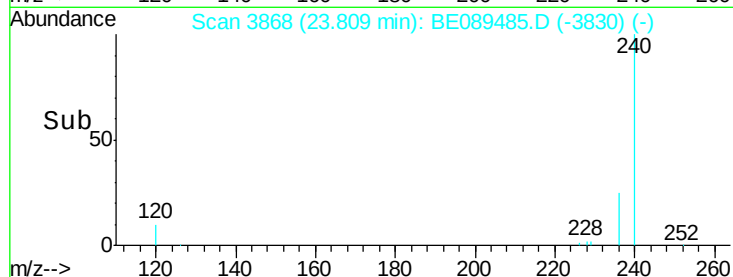
200000

100000

0

23.80 24.00

Time-->



#21

Benzidine

Concen: 0.09 ng

RT: 22.12 min Scan# 3594

Delta R.T. 0.02 min

Lab File: BE089485.D

Acq: 4 Feb 2015 6:00

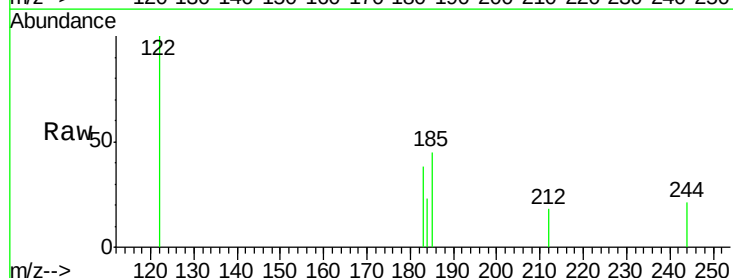
Tgt Ion:184 Resp: 119

Ion Ratio Lower Upper

184 100

185 199.8 12.0 18.0#

183 170.3 9.0 13.4#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

5000

4000

3000

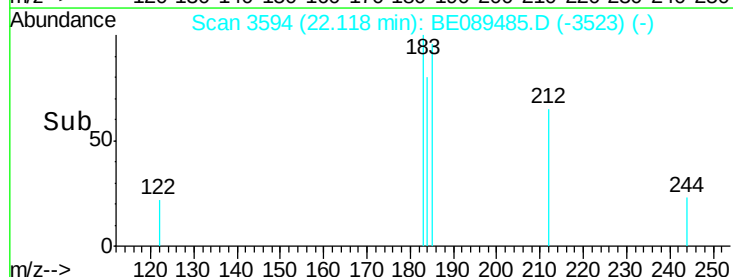
2000

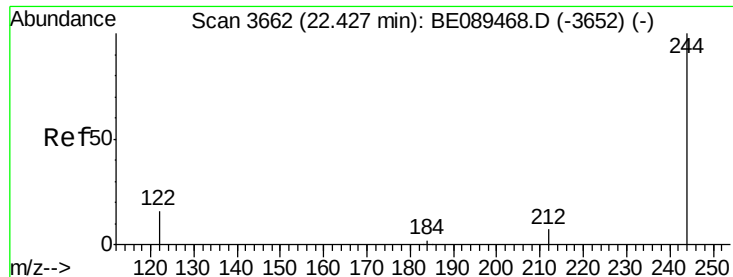
1000

0

22.10 22.12

Time-->





#22

Terphenyl-d14

Concen: 7.96 ng

RT: 22.45 min Scan# 3666

Delta R.T. 0.02 min

Lab File: BE089485.D

Acq: 4 Feb 2015 6:00

Instrument :

BNA_E

ClientSampleId :

MPE-1

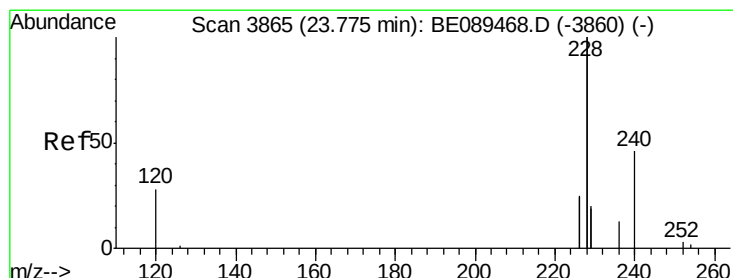
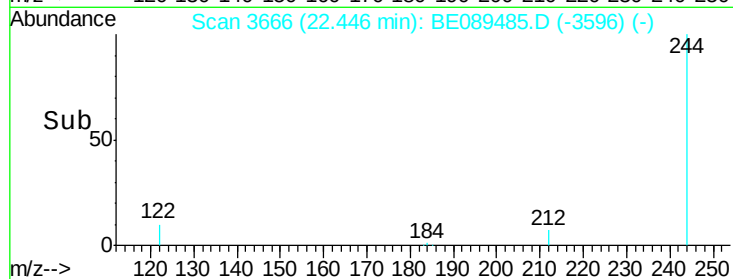
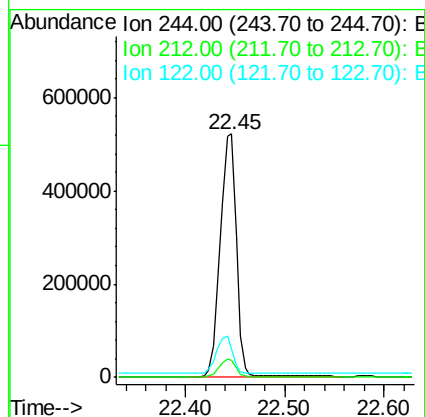
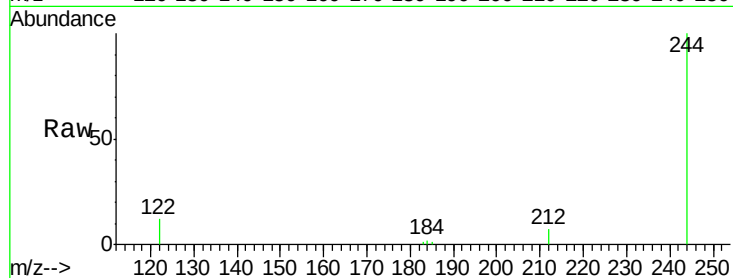
Tgt Ion:244 Resp: 576819

Ion Ratio Lower Upper

244 100

212 7.2 5.5 8.3

122 11.8 12.6 19.0#



#23

Benzo(a)anthracene

Concen: 0.03 ng

RT: 23.79 min Scan# 3866

Delta R.T. 0.02 min

Lab File: BE089485.D

Acq: 4 Feb 2015 6:00

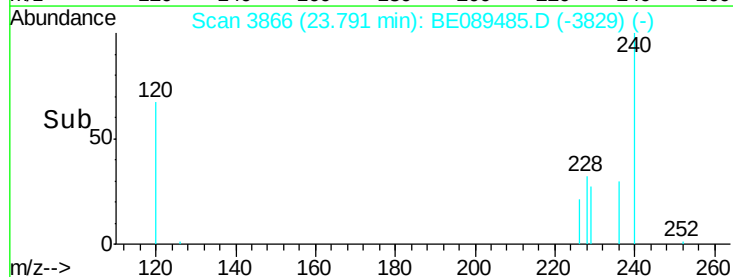
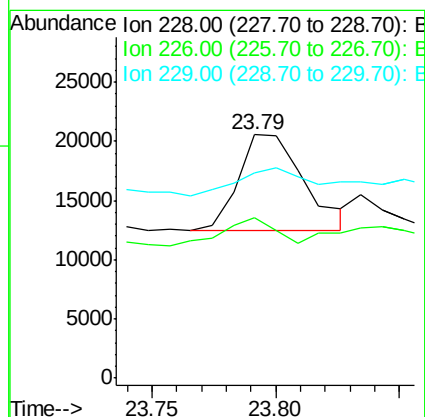
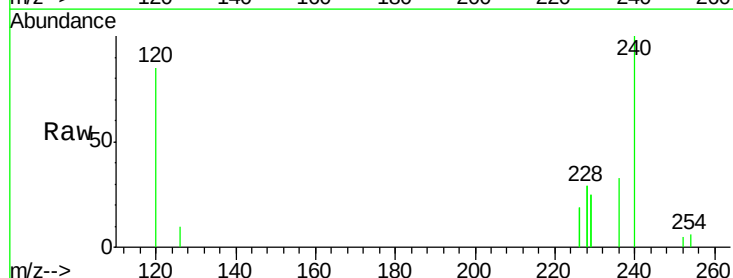
Tgt Ion:228 Resp: 14879

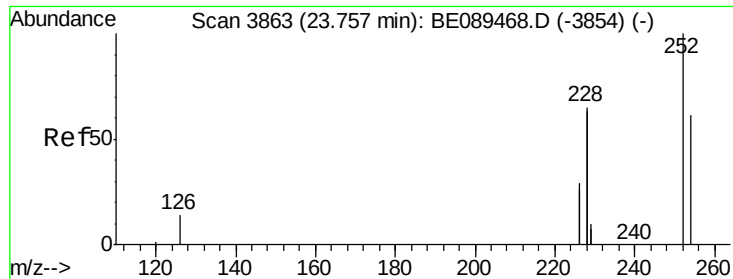
Ion Ratio Lower Upper

228 100

226 65.7 19.6 29.4#

229 84.3 15.9 23.9#

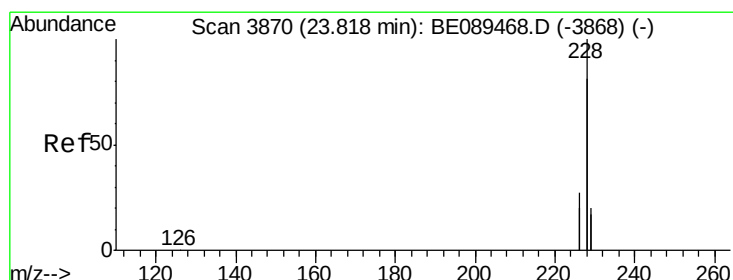
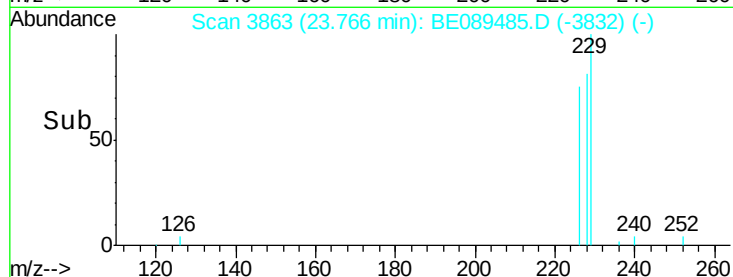
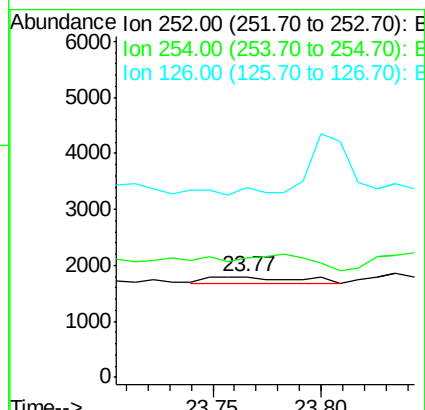
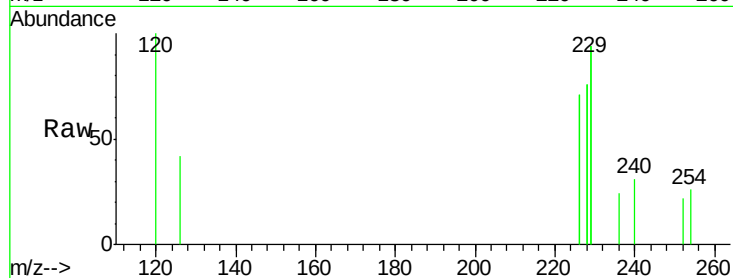




#24
 3,3'-Dichlorobenzidine
 Concen: 0.13 ng
 RT: 23.77 min Scan# 3863
 Delta R.T. 0.01 min
 Lab File: BE089485.D
 Acq: 4 Feb 2015 6:00

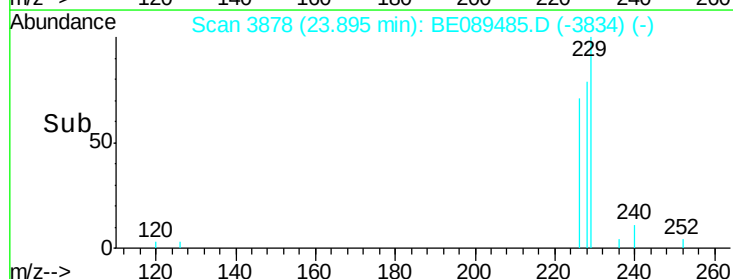
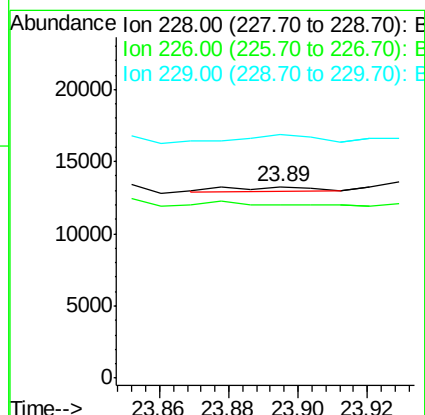
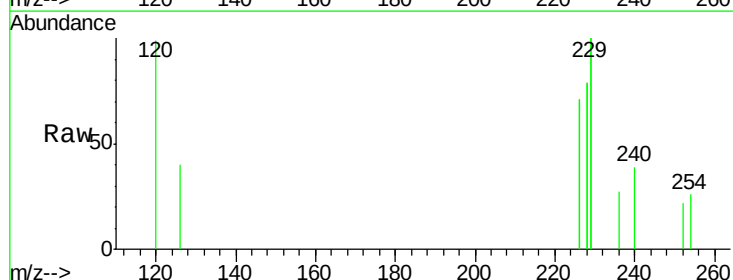
Instrument :
 BNA_E
 ClientSampleId :
 MPE-1

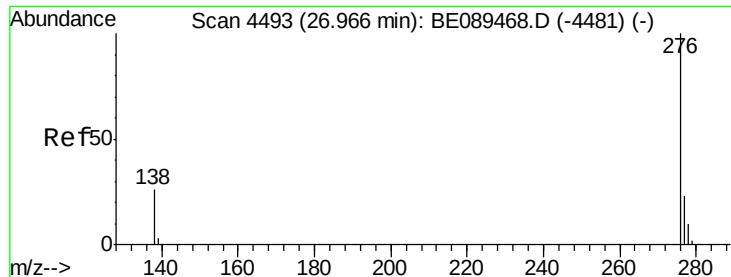
Tgt Ion: 252 Resp: 387
 Ion Ratio Lower Upper
 252 100
 254 118.6 48.6 73.0#
 126 188.7 12.4 18.6#



#25
 Chrysene
 Concen: 0.00 ng
 RT: 23.89 min Scan# 3878
 Delta R.T. 0.08 min
 Lab File: BE089485.D
 Acq: 4 Feb 2015 6:00

Tgt Ion: 228 Resp: 576
 Ion Ratio Lower Upper
 228 100
 226 90.6 21.8 32.8#
 229 127.1 16.2 24.2#





#26

Indeno(1,2,3-cd)pyrene

Concen: 0.14 ng

RT: 27.02 min Scan# 4504

Delta R.T. 0.06 min

Lab File: BE089485.D

Acq: 4 Feb 2015 6:00

Instrument :

BNA_E

ClientSampleId :

MPE-1

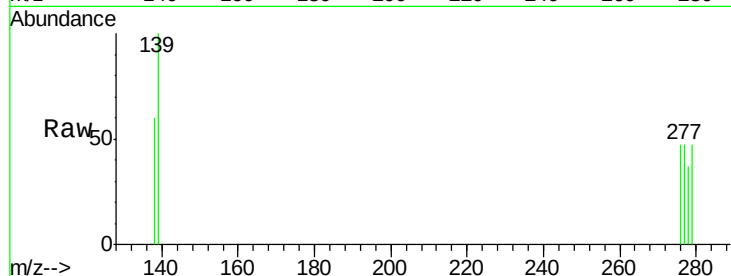
Tgt Ion: 276 Resp: 475

Ion Ratio Lower Upper

276 100

138 8.4 24.2 36.4#

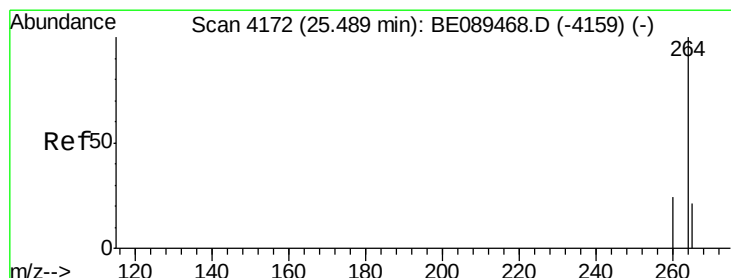
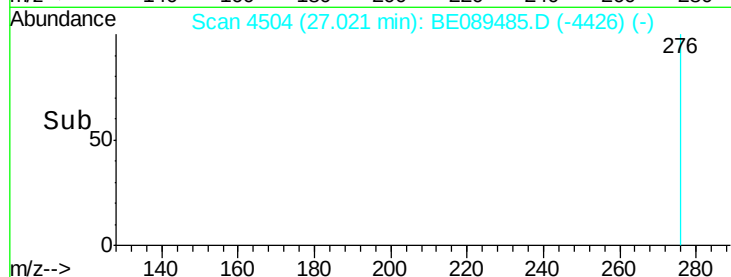
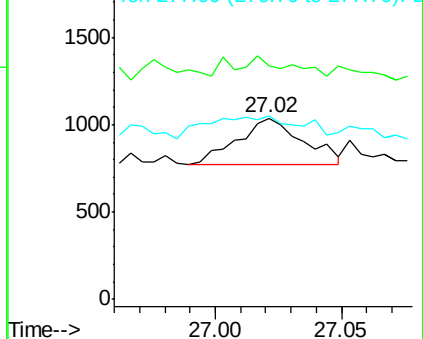
277 75.6 19.9 29.9#



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

Perylene-d12

Concen: 5.00 ng

RT: 25.53 min Scan# 4179

Delta R.T. 0.04 min

Lab File: BE089485.D

Acq: 4 Feb 2015 6:00

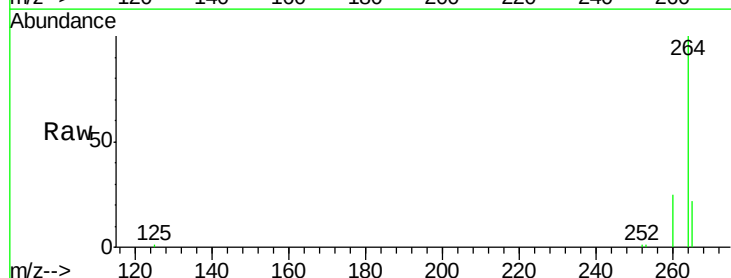
Tgt Ion: 264 Resp: 511582

Ion Ratio Lower Upper

264 100

260 25.1 19.1 28.7

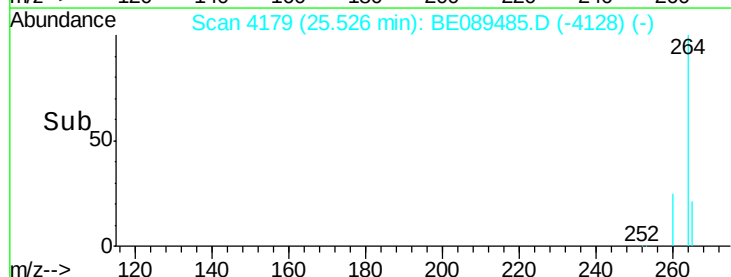
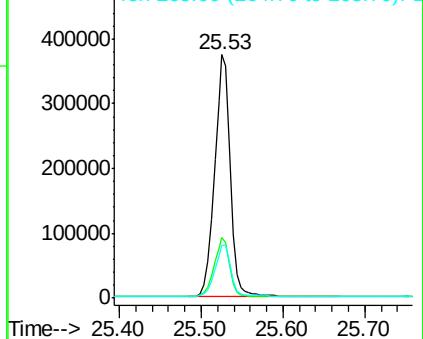
265 21.6 17.0 25.6

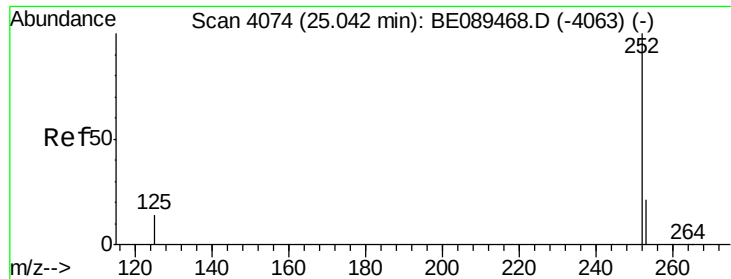


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#28

Benzo(b)fluoranthene

Concen: 0.19 ng

RT: 25.07 min Scan# 4078

Delta R.T. 0.02 min

Lab File: BE089485.D

Acq: 4 Feb 2015 6:00

Instrument :

BNA_E

ClientSampleId :

MPE-1

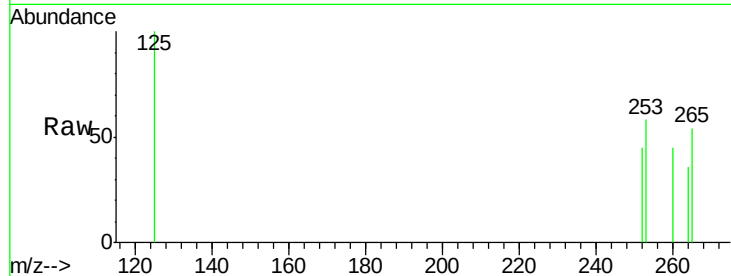
Tgt Ion:252 Resp: 627

Ion Ratio Lower Upper

252 100

253 127.9 17.4 26.2#

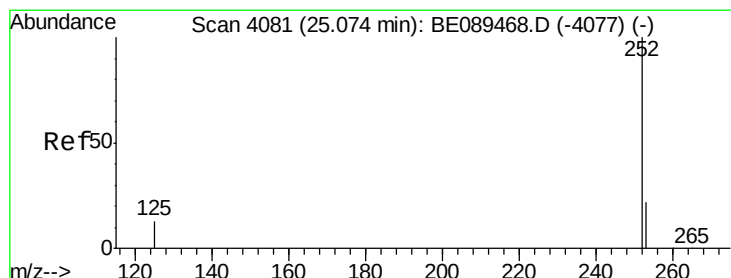
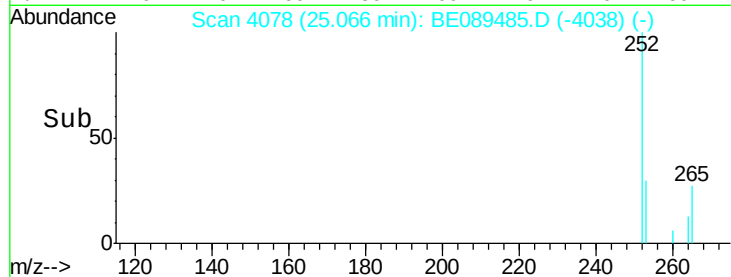
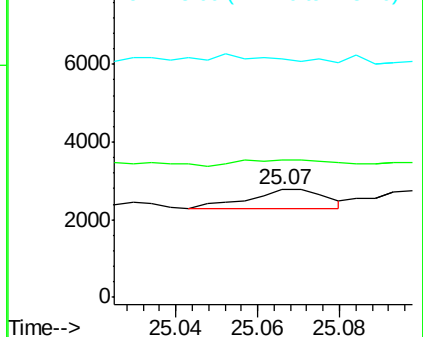
125 221.2 11.3 16.9#



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

Benzo(k)fluoranthene

Concen: 0.00 ng

RT: 25.10 min Scan# 4086

Delta R.T. 0.03 min

Lab File: BE089485.D

Acq: 4 Feb 2015 6:00

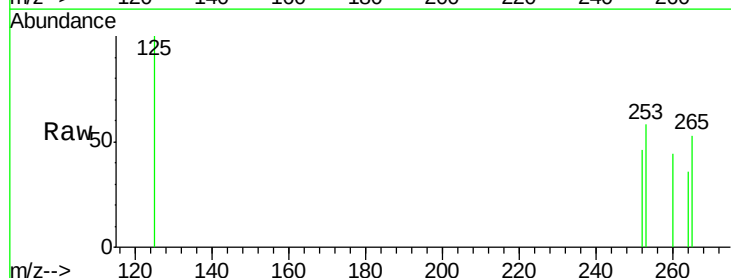
Tgt Ion:252 Resp: 605

Ion Ratio Lower Upper

252 100

253 127.9 17.9 26.9#

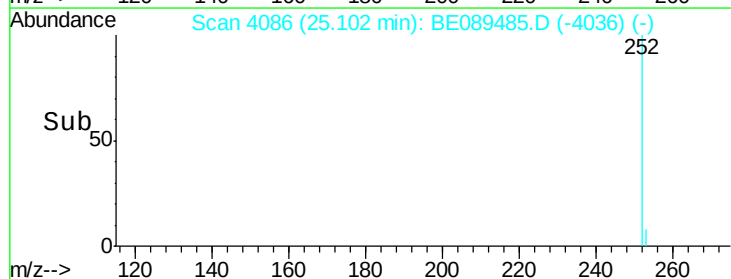
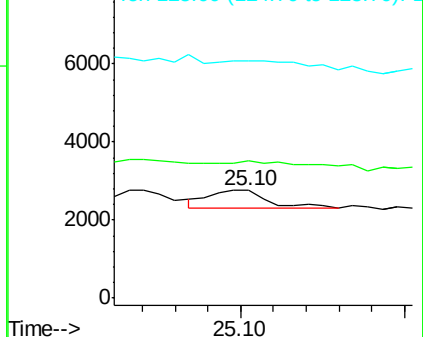
125 219.5 10.6 15.8#

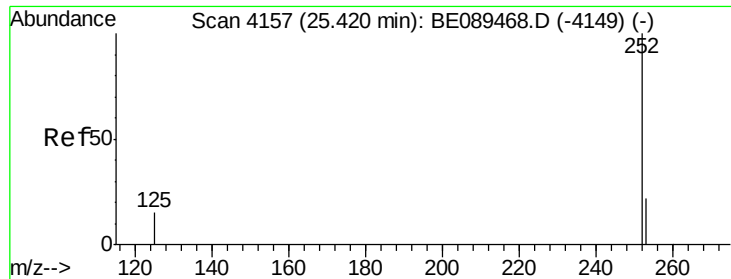


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#30

Benzo(a)pyrene

Concen: 0.18 ng

RT: 25.45 min Scan# 4163

Delta R.T. 0.03 min

Lab File: BE089485.D

Acq: 4 Feb 2015 6:00

Instrument :

BNA_E

ClientSampleId :

MPE-1

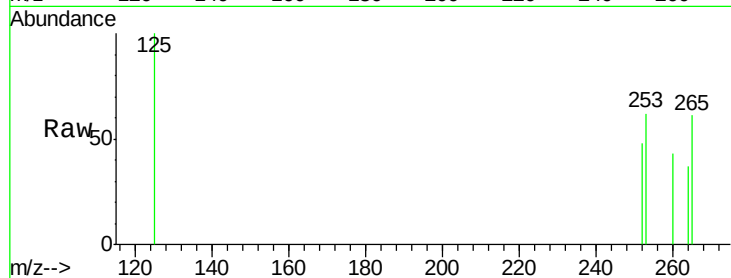
Tgt Ion:252 Resp: 827

Ion Ratio Lower Upper

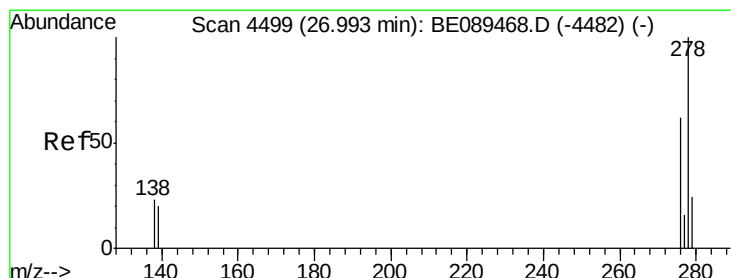
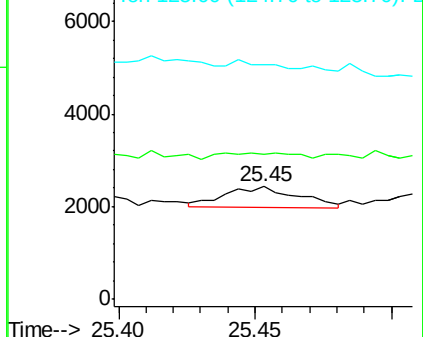
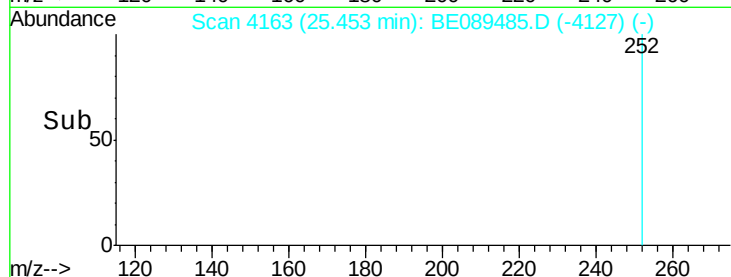
252 100

253 128.7 18.2 27.2#

125 207.5 12.2 18.4#



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



#31

Dibenzo(a,h)anthracene

Concen: 0.15 ng

RT: 27.05 min Scan# 4510

Delta R.T. 0.06 min

Lab File: BE089485.D

Acq: 4 Feb 2015 6:00

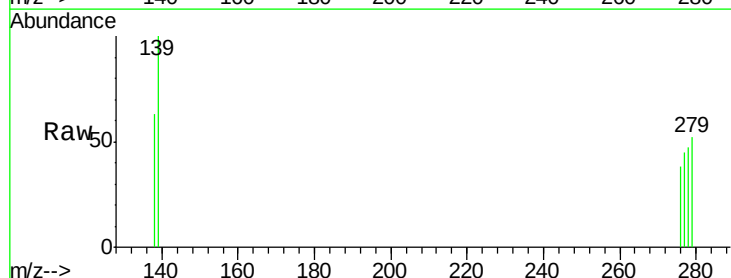
Tgt Ion:278 Resp: 533

Ion Ratio Lower Upper

278 100

139 211.8 16.8 25.2#

279 109.9 19.4 29.0#



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

