

Data Path : Z:\HPCHEM1\BNA_E\Data\BE012815\
 Data File : BE089401.D
 Acq On : 28 Jan 2015 23:09
 Operator : TP/IZ
 Sample : PB81408BS
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81408BS

Quant Time: Jan 29 05:14:42 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE012815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 29 04:21:19 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.58	152	96942	5.00	ng	0.00
7) Naphthalene-d8	12.50	136	295396	5.00	ng	0.00
13) Acenaphthene-d10	12.21	164	61179	5.00	ng	0.00
17) Phenanthrene-d10	19.98	188	153267	5.00	ng	0.00
20) Chrysene-d12	23.84	240	289506	5.00	ng	0.00
27) Perylene-d12	25.55	264	422664	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	6.72	112	310096	10.23	ng	0.00
4) Phenol-d6	8.84	99	360923	9.67	ng	0.00
8) Nitrobenzene-d5	10.84	82	171780	8.25	ng	0.00
14) 2,4,6-Tribromophenol	18.58	330	23075	0.45	ng	0.00
15) 2-Fluorobiphenyl	15.13	172	248106	0.38	ng	0.00
22) Terphenyl-d14	22.48	244	216588	6.75	ng	0.00

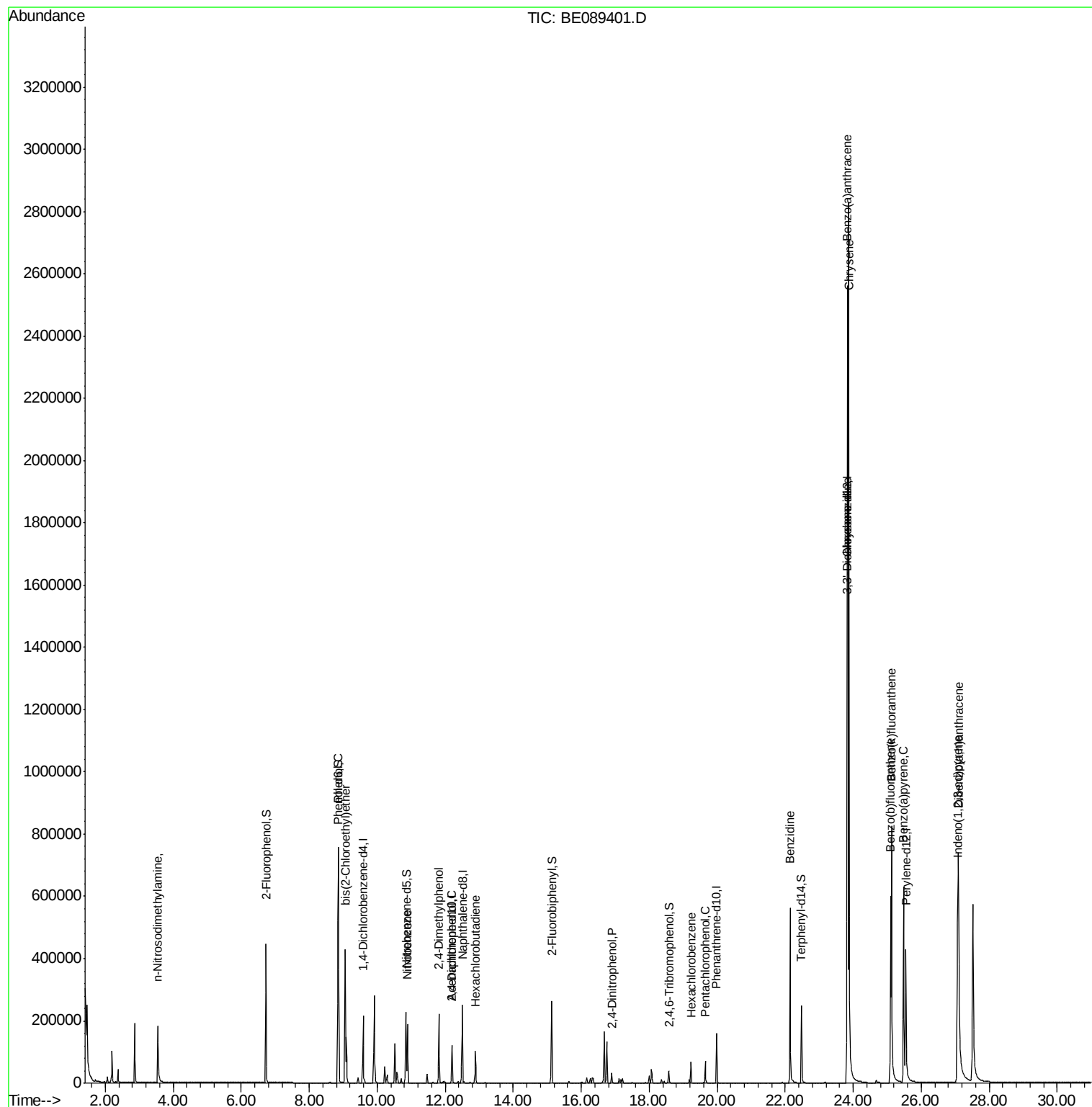
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) n-Nitrosodimethylamine	3.53	42	120172	6.94	ng	# 78
5) Phenol	8.86	94	252857	6.37	ng	93
6) bis(2-Chloroethyl)ether	9.06	93	199753	6.76	ng	# 98
9) Nitrobenzene	10.88	77	176963	7.53	ng	99
10) 2,4-Dimethylphenol	11.82	122	117029	6.53	ng	100
11) 2,4-Dichlorophenol	12.20	162	96497	7.00	ng	86
12) Hexachlorobutadiene	12.89	225	68263	6.97	ng	99
16) 2,4-Dinitrophenol	16.89	184	19336	6.07	ng	94
18) Hexachlorobenzene	19.23	284	52265	7.41	ng	98
19) Pentachlorophenol	19.65	266	38254	28.07	ng	99
21) Benzidine	22.14	184	509566	14.91	ng	98
23) Benzo(a)anthracene	23.83	228	2050675	7.65	ng	97
24) 3,3'-Dichlorobenzidine	23.81	252	236016	11.05	ng	99
25) Chrysene	23.87	228	2359944	7.20	ng	99
26) Indeno(1,2,3-cd)pyrene	27.07	276	1018151	13.32	ng	# 100
28) Benzo(b)fluoranthene	25.10	252	568812	10.24	ng	98
29) Benzo(k)fluoranthene	25.13	252	931178	6.92	ng	99
30) Benzo(a)pyrene	25.48	252	801409	12.29	ng	99
31) Dibenzo(a,h)anthracene	27.09	278	813470	11.73	ng	99

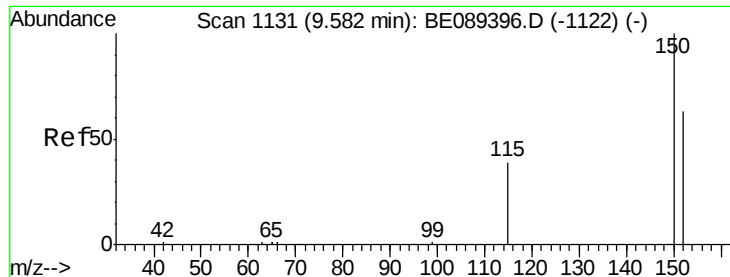
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.58 min Scan# 1131

Delta R.T. 0.00 min

Lab File: BE089401.D

Acq: 28 Jan 2015 23:09

Instrument :

BNA_E

ClientSampleId :

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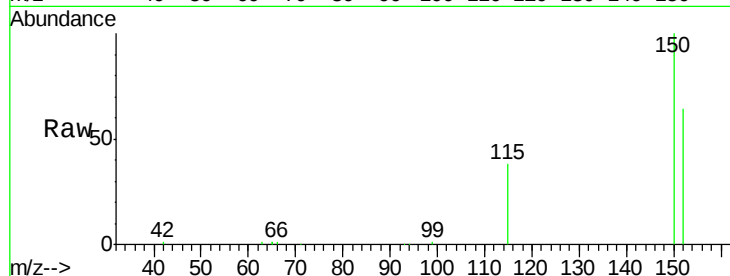
Tgt Ion:152 Resp: 96942

Ion Ratio Lower Upper

152 100

150 156.1 127.2 190.8

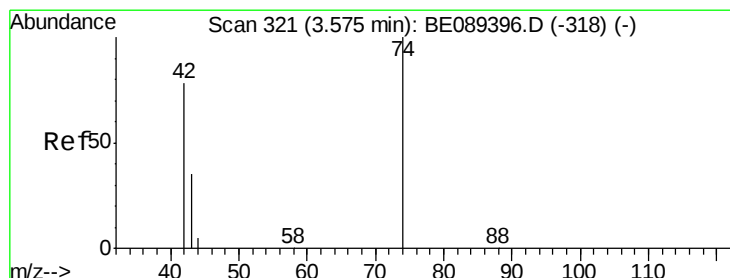
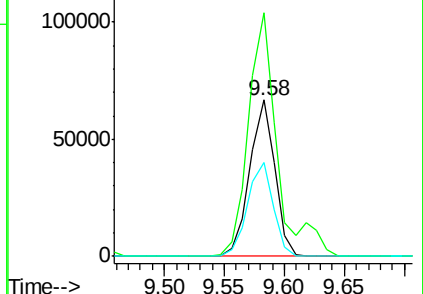
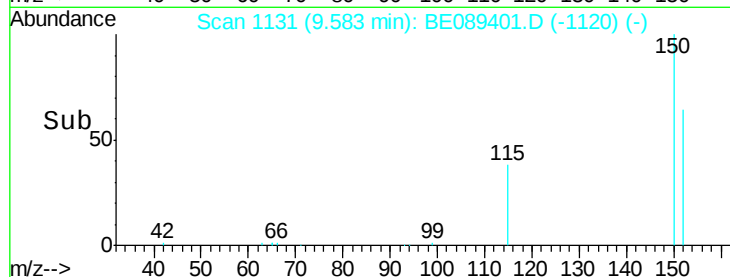
115 59.8 49.3 73.9



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: 6.94 ng

RT: 3.53 min Scan# 315

Delta R.T. -0.04 min

Lab File: BE089401.D

Acq: 28 Jan 2015 23:09

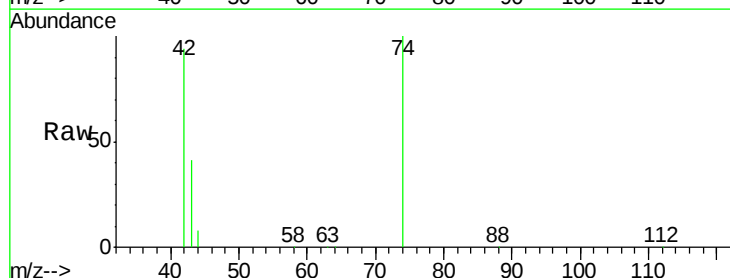
Tgt Ion: 42 Resp: 120172

Ion Ratio Lower Upper

42 100

74 106.7 101.2 151.8

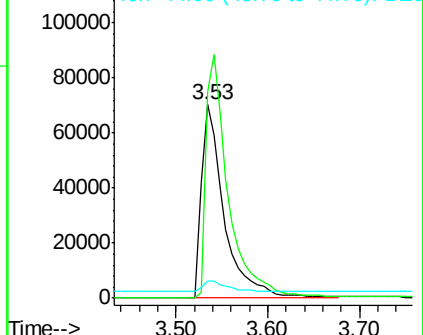
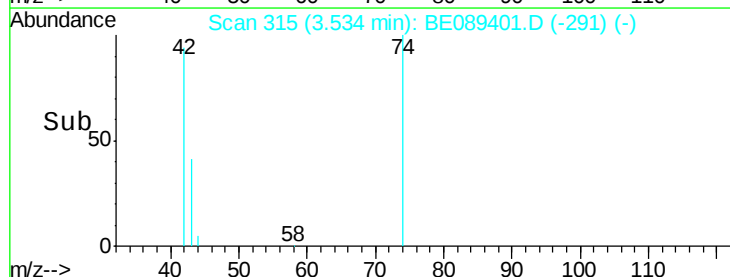
44 8.9 26.4 39.6#

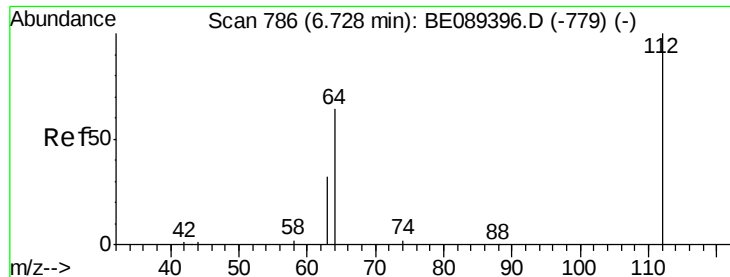


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0





#3

2-Fluorophenol

Concen: 10.23 ng

RT: 6.72 min Scan# 785

Delta R.T. -0.01 min

Lab File: BE089401.D

Acq: 28 Jan 2015 23:09

Instrument :

BNA_E

ClientSampleId :

PB81408BS

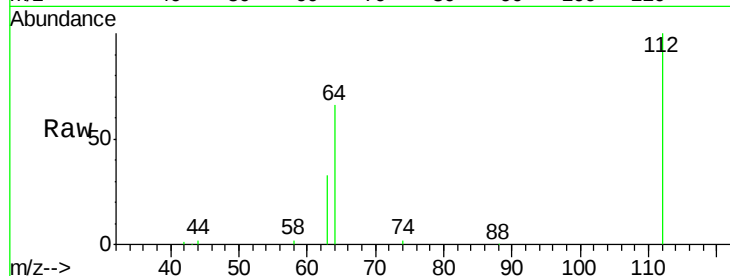
Tgt Ion: 112 Resp: 310096

Ion Ratio Lower Upper

112 100

64 65.7 51.7 77.5

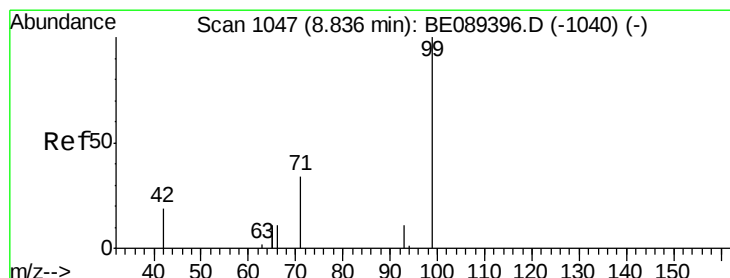
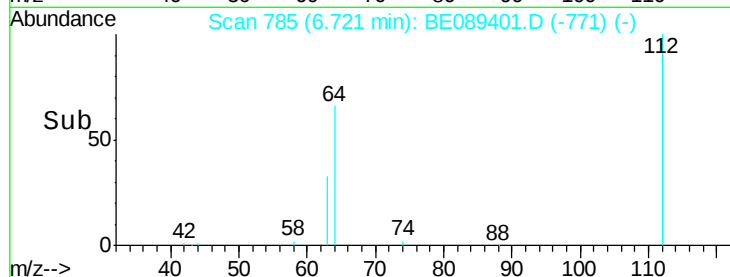
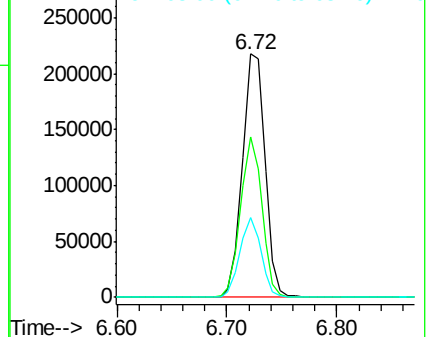
63 33.0 25.7 38.5



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#4

Phenol-d6

Concen: 9.67 ng

RT: 8.84 min Scan# 1047

Delta R.T. 0.00 min

Lab File: BE089401.D

Acq: 28 Jan 2015 23:09

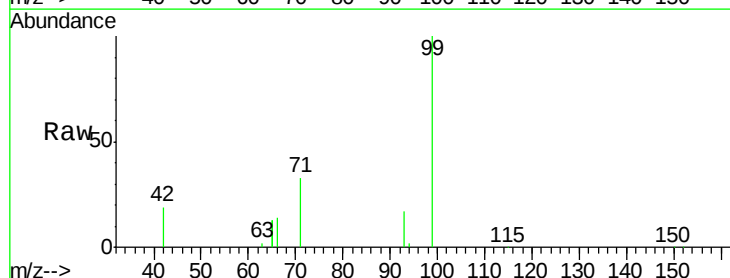
Tgt Ion: 99 Resp: 360923

Ion Ratio Lower Upper

99 100

42 19.5 15.3 22.9

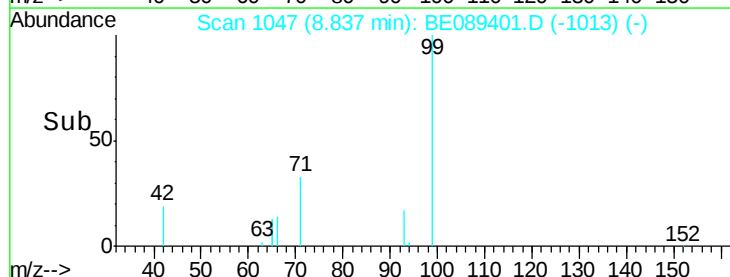
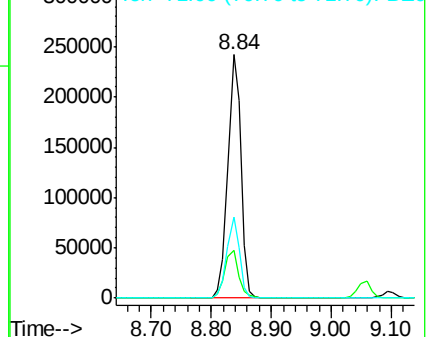
71 33.3 27.0 40.6

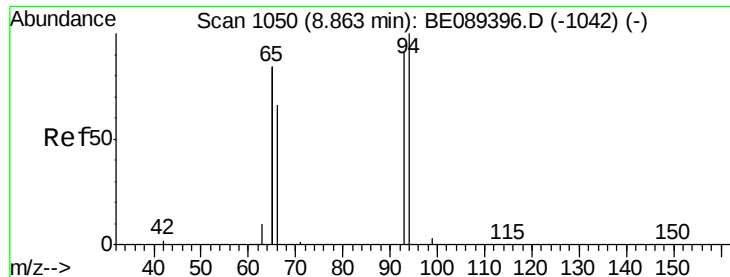


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#5

Phenol

Concen: 6.37 ng

RT: 8.86 min Scan# 1050

Delta R.T. 0.00 min

Lab File: BE089401.D

Acq: 28 Jan 2015 23:09

Instrument :

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ClientSampleId :

PB81408BS

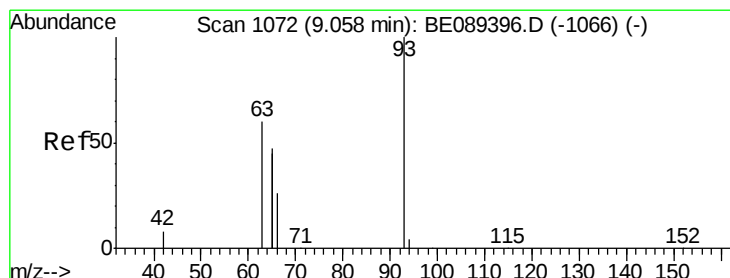
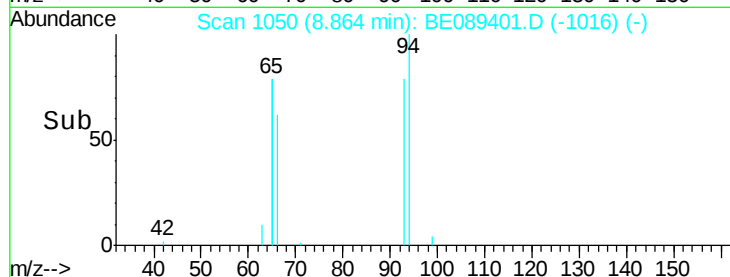
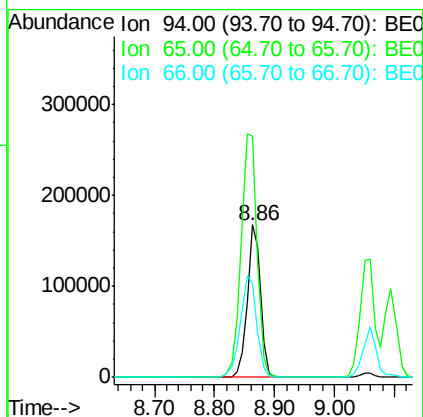
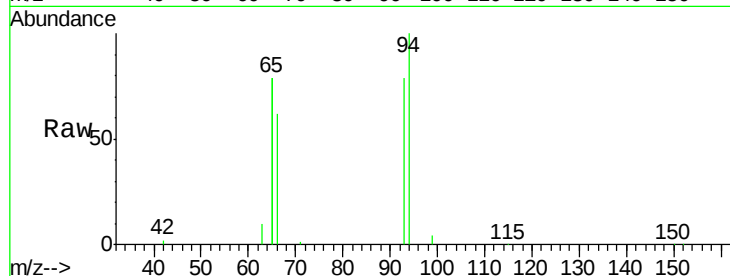
Tgt Ion: 94 Resp: 252857

Ion Ratio Lower Upper

94 100

65 158.5 148.6 188.6

66 61.6 46.2 86.2



#6

bis(2-Chloroethyl)ether

Concen: 6.76 ng

RT: 9.06 min Scan# 1072

Delta R.T. 0.00 min

Lab File: BE089401.D

Acq: 28 Jan 2015 23:09

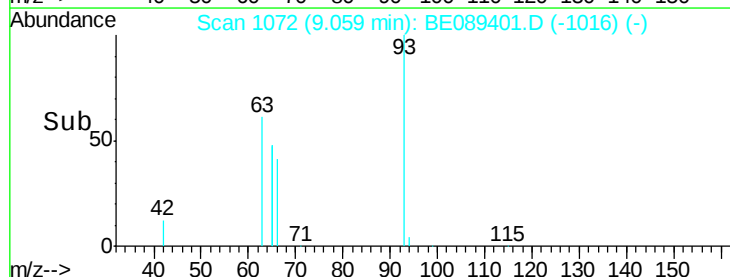
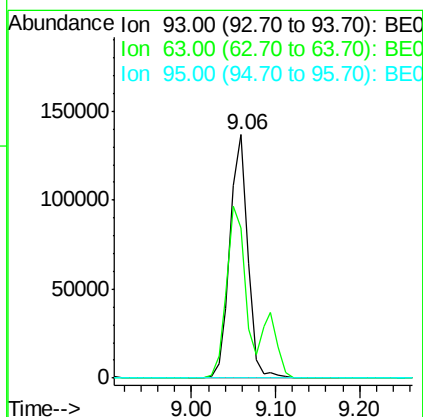
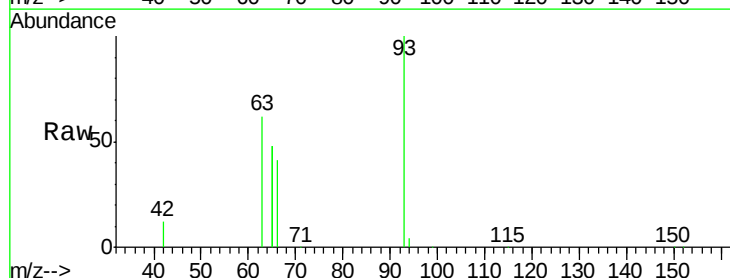
Tgt Ion: 93 Resp: 199753

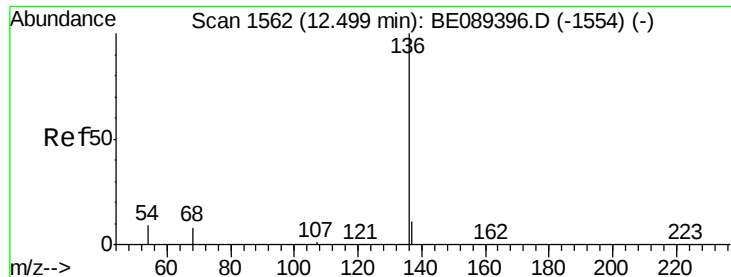
Ion Ratio Lower Upper

93 100

63 75.3 58.9 88.3

95 0.0 0.0 0.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 12.50 min Scan# 1562

Delta R.T. 0.00 min

Lab File: BE089401.D

Acq: 28 Jan 2015 23:09

Instrument :

BNA_E

ClientSampleId :

PB81408BS

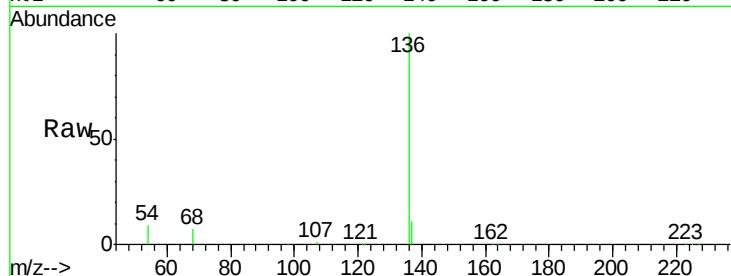
Tgt Ion:136 Resp: 295396

Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

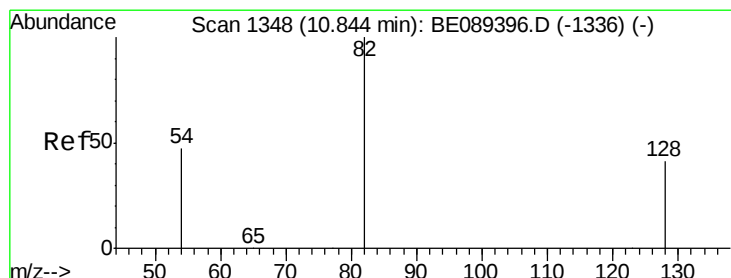
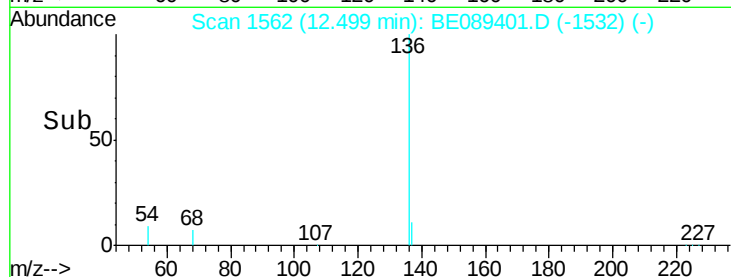
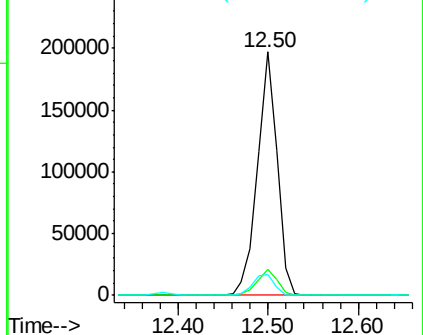
54 8.7 7.4 11.0



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: 8.25 ng

RT: 10.84 min Scan# 1348

Delta R.T. 0.00 min

Lab File: BE089401.D

Acq: 28 Jan 2015 23:09

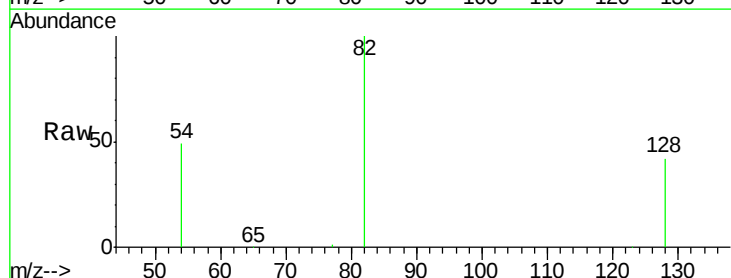
Tgt Ion: 82 Resp: 171780

Ion Ratio Lower Upper

82 100

128 41.8 33.6 50.4

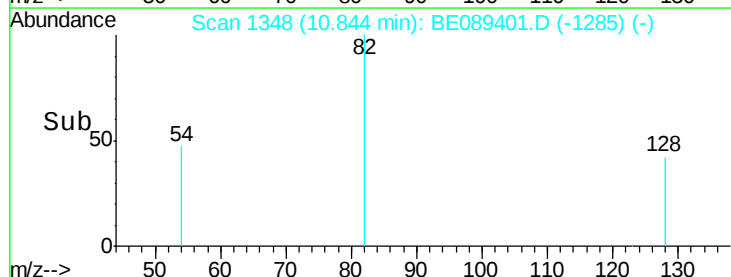
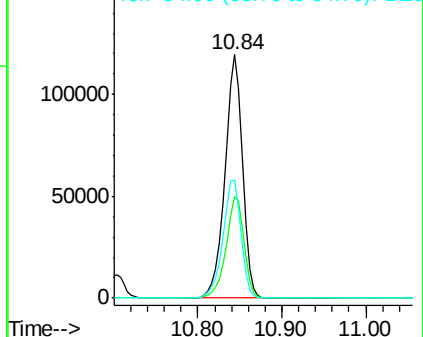
54 48.7 37.7 56.5

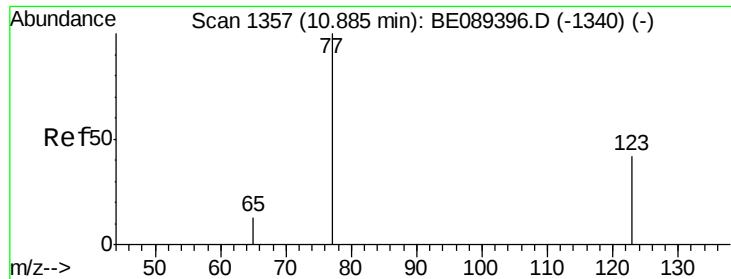


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Nitrobenzene

Concen: 7.53 ng

RT: 10.88 min Scan# 1357

Delta R.T. 0.00 min

Lab File: BE089401.D

Acq: 28 Jan 2015 23:09

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ClientSampleId :

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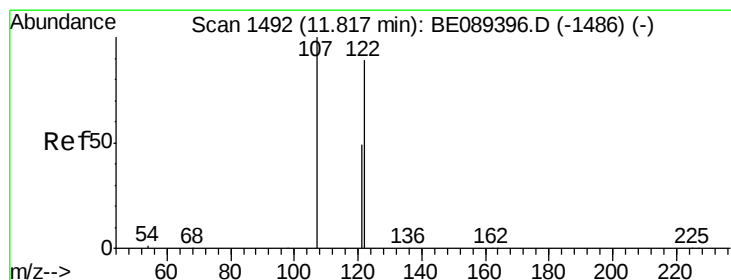
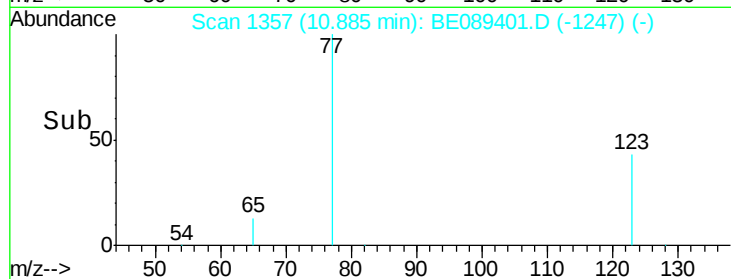
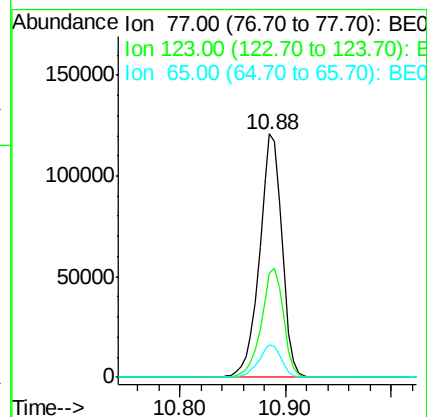
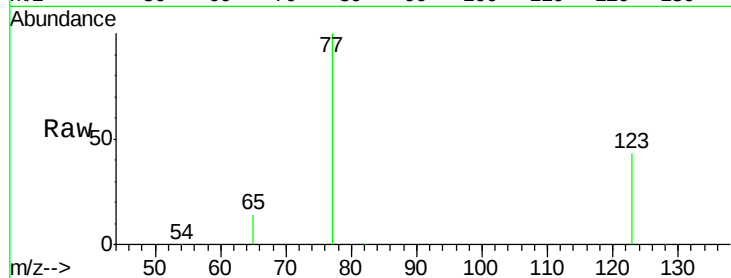
Tgt Ion: 77 Resp: 176963

Ion Ratio Lower Upper

77 100

123 44.4 34.7 52.1

65 13.5 10.6 15.8



#10

2,4-Dimethylphenol

Concen: 6.53 ng

RT: 11.82 min Scan# 1492

Delta R.T. 0.00 min

Lab File: BE089401.D

Acq: 28 Jan 2015 23:09

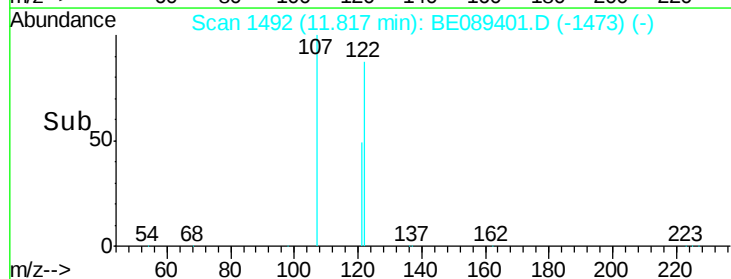
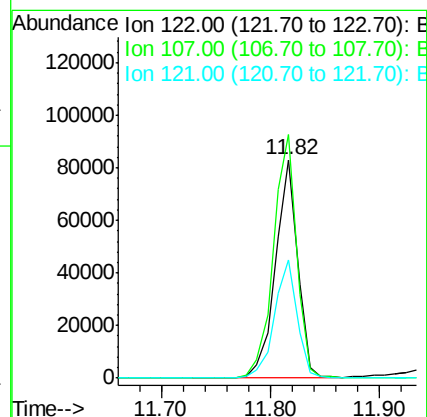
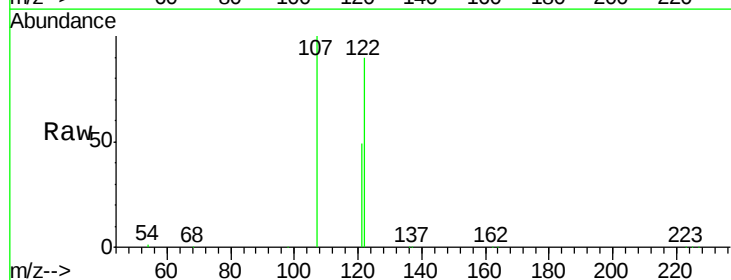
Tgt Ion: 122 Resp: 117029

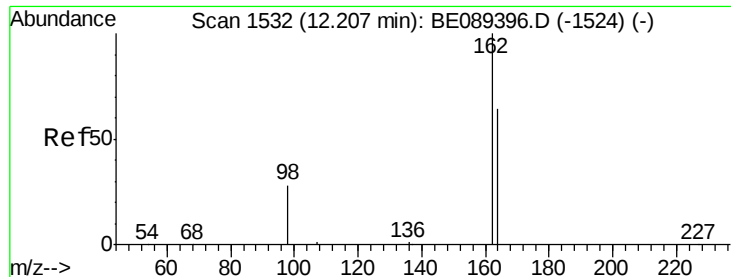
Ion Ratio Lower Upper

122 100

107 111.5 89.4 134.2

121 54.2 43.6 65.4





#11

2,4-Dichlorophenol

Concen: 7.00 ng

RT: 12.20 min Scan# 1531

Delta R.T. -0.01 min

Lab File: BE089401.D

Acq: 28 Jan 2015 23:09

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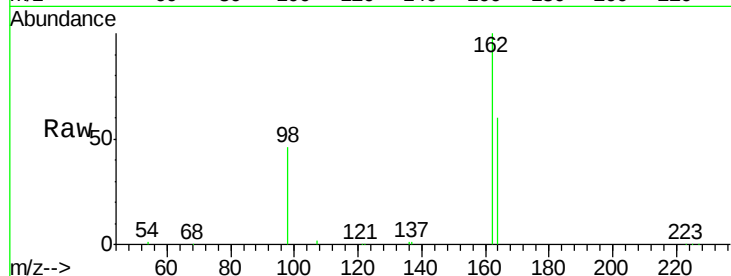
Tgt Ion:162 Resp: 96497

Ion Ratio Lower Upper

162 100

164 59.8 44.6 84.6

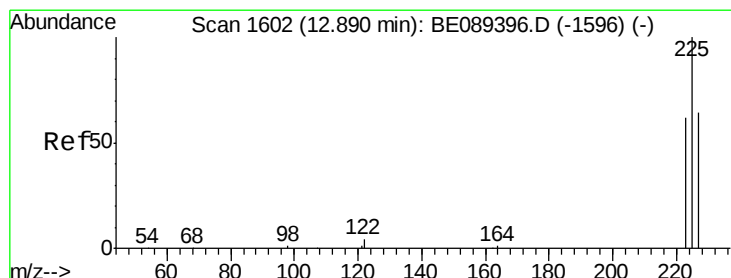
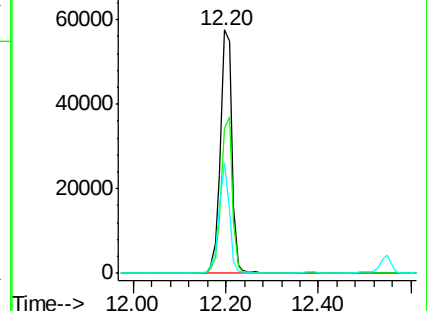
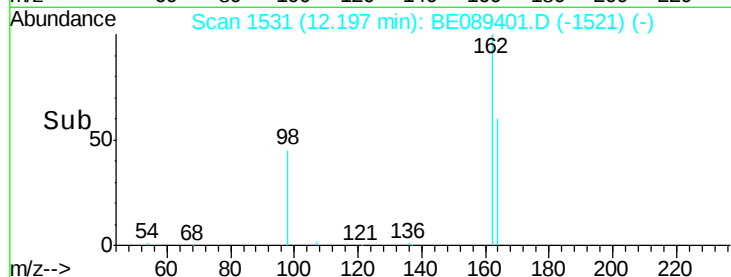
98 45.5 8.7 48.7



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): BE



#12

Hexachlorobutadiene

Concen: 6.97 ng

RT: 12.89 min Scan# 1602

Delta R.T. 0.00 min

Lab File: BE089401.D

Acq: 28 Jan 2015 23:09

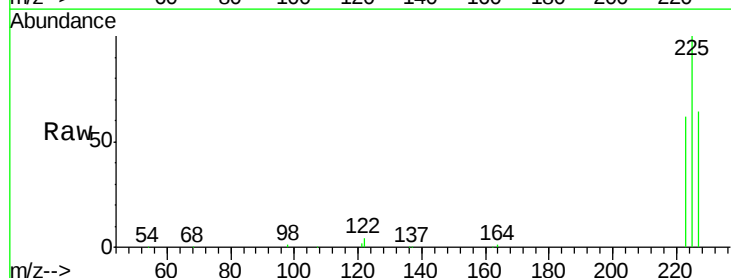
Tgt Ion:225 Resp: 68263

Ion Ratio Lower Upper

225 100

223 63.6 50.2 75.4

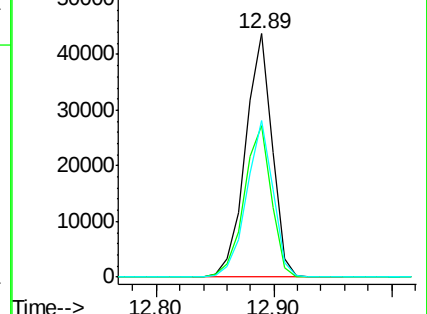
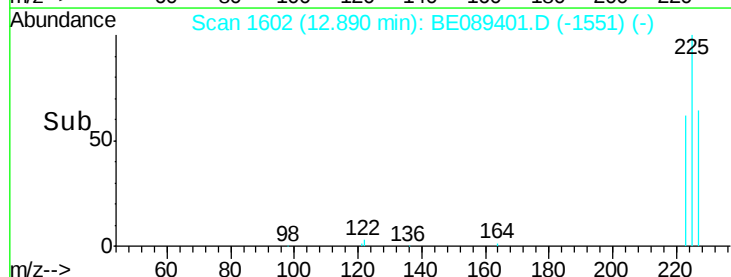
227 63.5 50.5 75.7

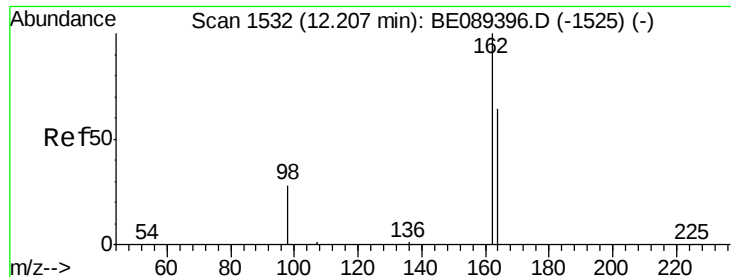


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 12.21 min Scan# 1532

Delta R.T. 0.00 min

Lab File: BE089401.D

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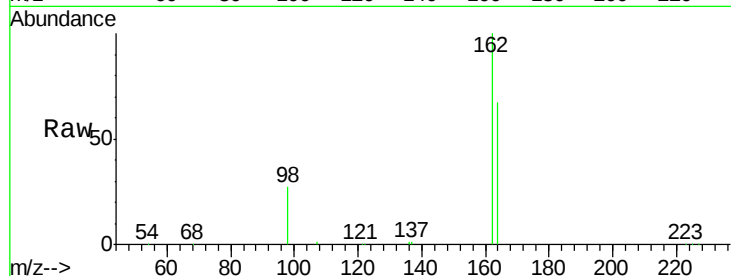
Tgt Ion:164 Resp: 61179

Ion Ratio Lower Upper

164 100

162 148.4 123.9 185.9

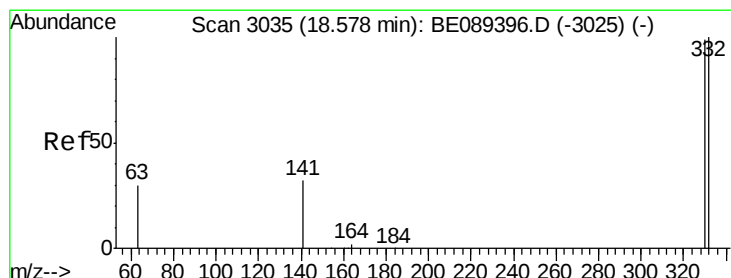
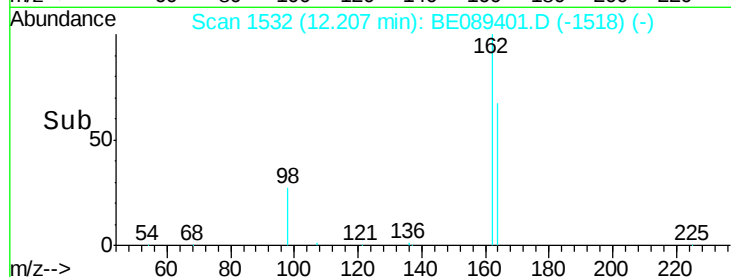
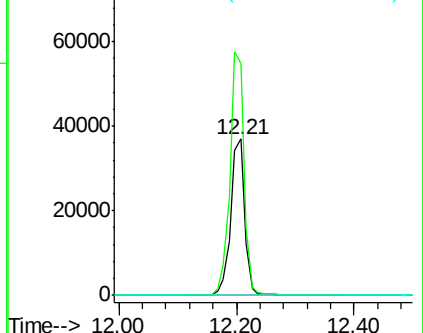
160 0.0 0.0 0.0



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



#14

2,4,6-Tribromophenol

Concen: 0.45 ng

RT: 18.58 min Scan# 3035

Delta R.T. 0.00 min

Lab File: BE089401.D

Acq: 28 Jan 2015 23:09

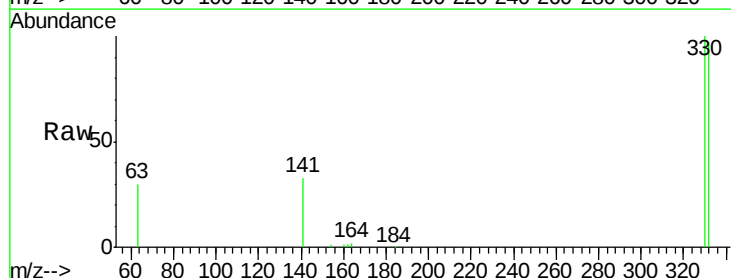
Tgt Ion:330 Resp: 23075

Ion Ratio Lower Upper

330 100

332 96.0 77.5 116.3

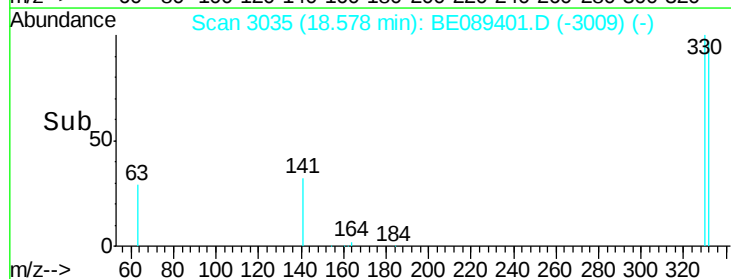
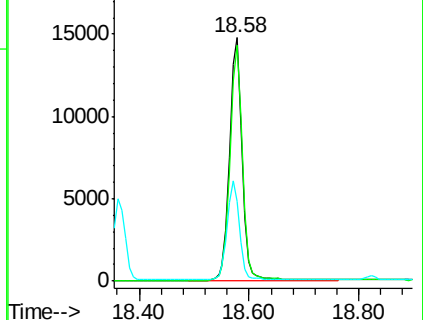
141 40.1 32.4 48.6

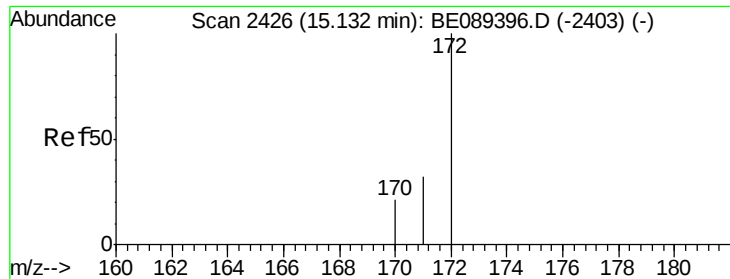


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

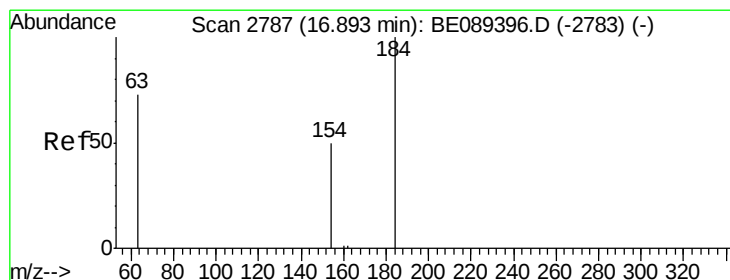
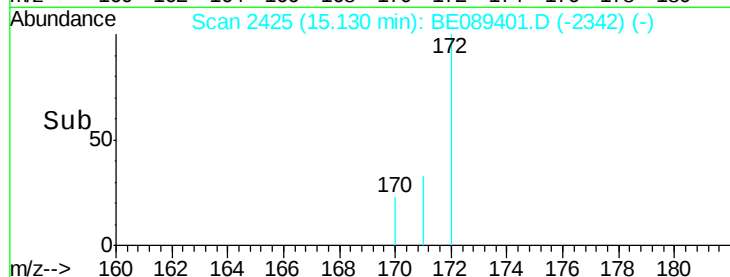
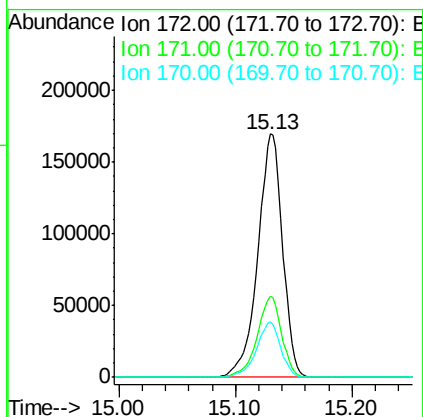
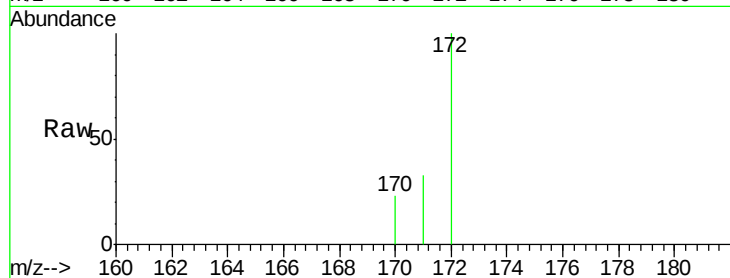




#15
2-Fluorobiphenyl
Concen: 0.38 ng
RT: 15.13 min Scan# 2425
Delta R.T. -0.00 min
Lab File: BE089401.D
Acq: 28 Jan 2015 23:09

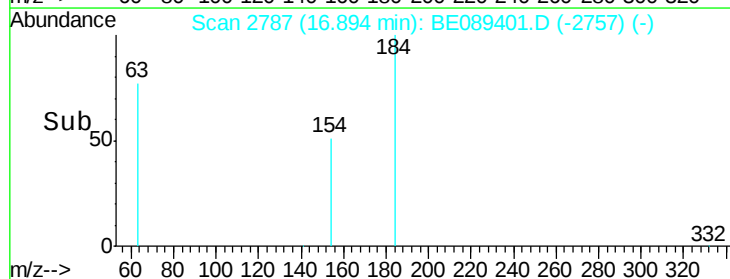
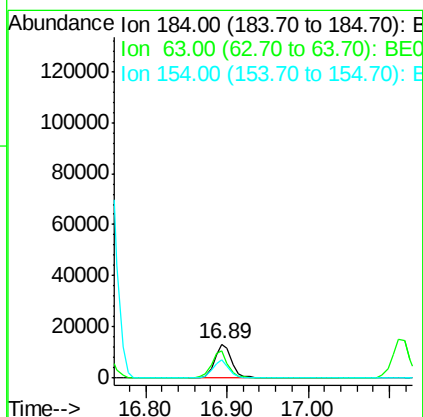
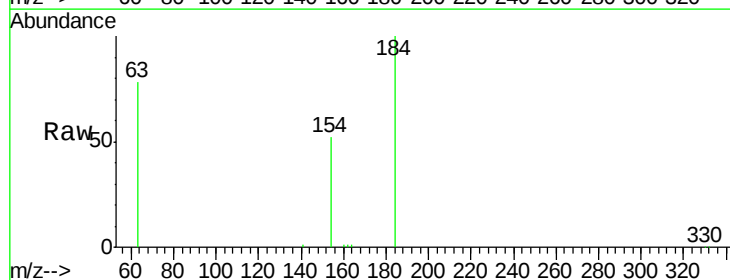
Instrument :
BNA_E
ClientSampleId :
PB81408BS

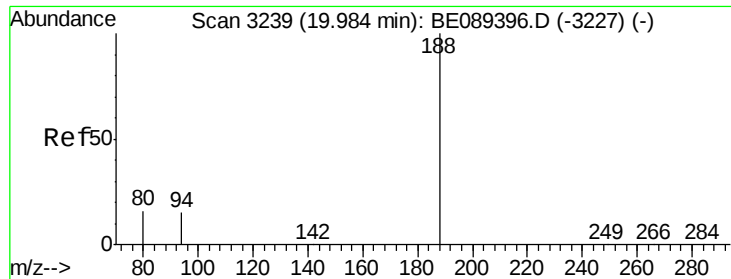
Tgt Ion:172 Resp: 248106
Ion Ratio Lower Upper
172 100
171 33.2 25.6 38.4
170 22.7 17.0 25.4



#16
2,4-Dinitrophenol
Concen: 6.07 ng
RT: 16.89 min Scan# 2787
Delta R.T. 0.00 min
Lab File: BE089401.D
Acq: 28 Jan 2015 23:09

Tgt Ion:184 Resp: 19336
Ion Ratio Lower Upper
184 100
63 77.9 66.9 100.3
154 51.8 45.1 67.7

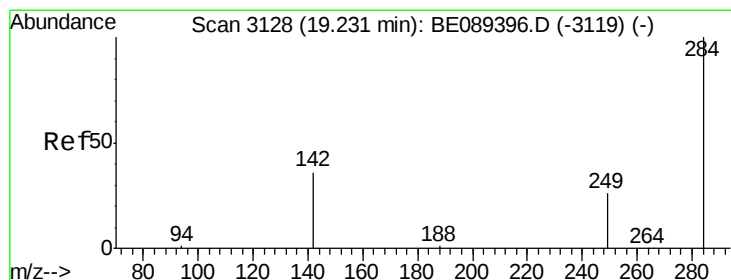
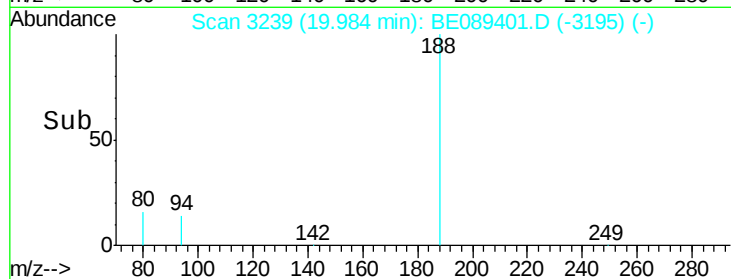
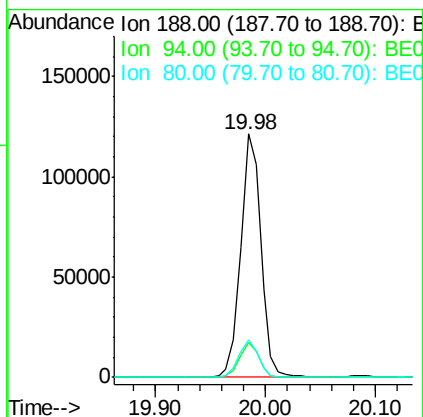
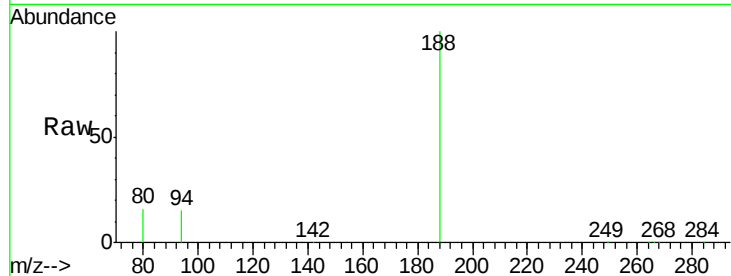




#17
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.98 min Scan# 3239
Delta R.T. 0.00 min
Lab File: BE089401.D
Acq: 28 Jan 2015 23:09

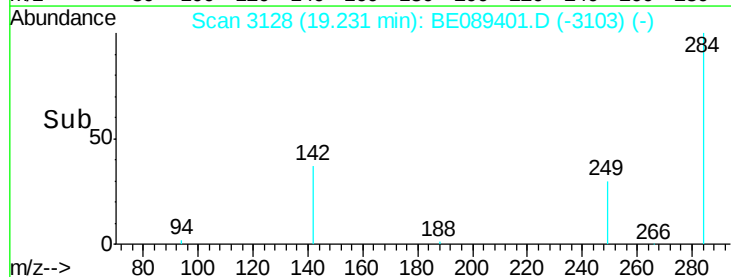
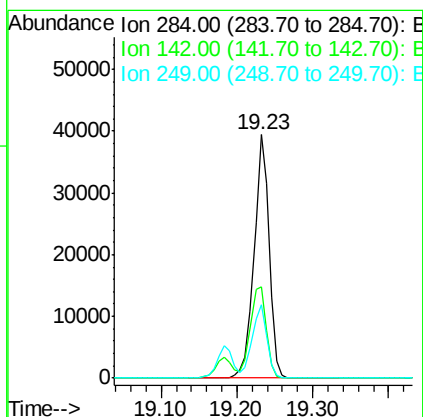
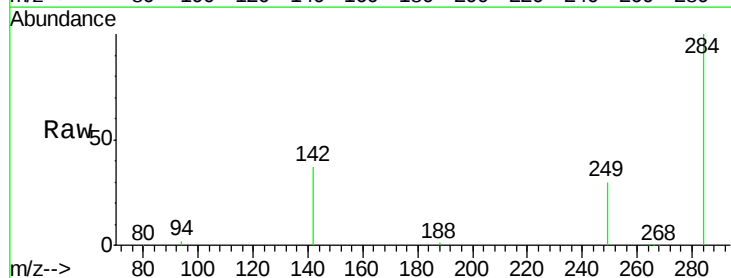
Instrument :
BNA_E
ClientSampleId :
PB81408BS

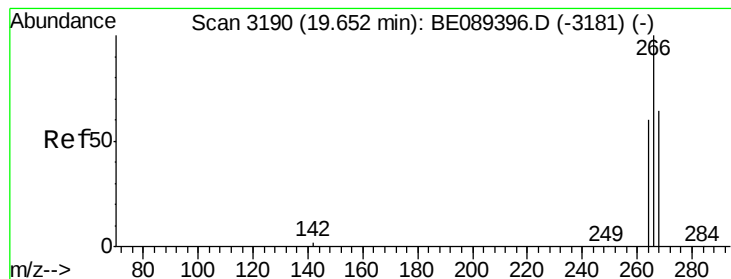
Tgt Ion:188 Resp: 153267
Ion Ratio Lower Upper
188 100
94 14.6 12.0 18.0
80 15.6 13.2 19.8



#18
Hexachlorobenzene
Concen: 7.41 ng
RT: 19.23 min Scan# 3128
Delta R.T. 0.00 min
Lab File: BE089401.D
Acq: 28 Jan 2015 23:09

Tgt Ion:284 Resp: 52265
Ion Ratio Lower Upper
284 100
142 37.4 30.7 46.1
249 30.1 23.4 35.2

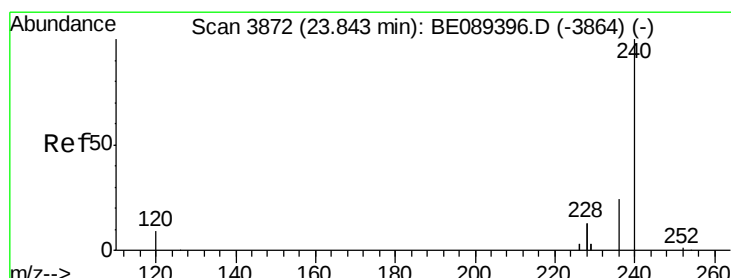
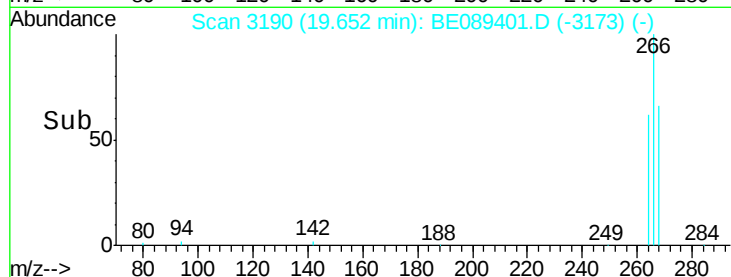
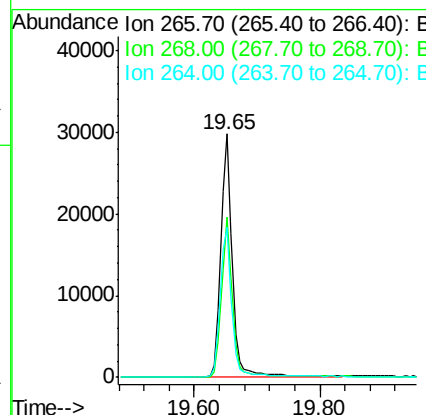
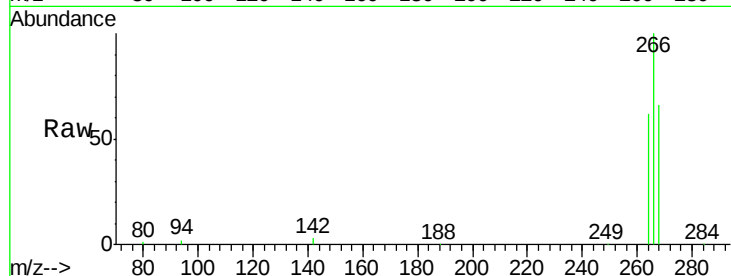




#19
 Pentachlorophenol
 Concen: 28.07 ng
 RT: 19.65 min Scan# 3190
 Delta R.T. 0.00 min
 Lab File: BE089401.D
 Acq: 28 Jan 2015 23:09

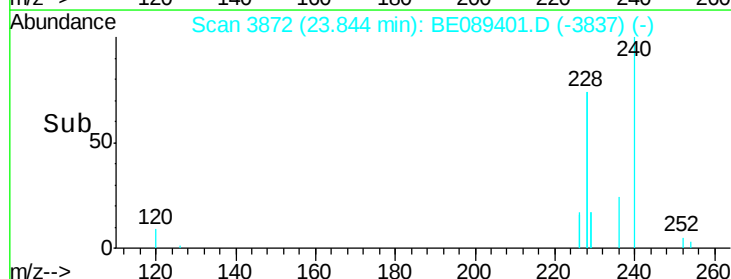
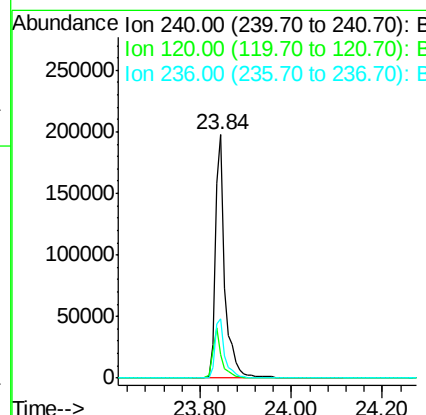
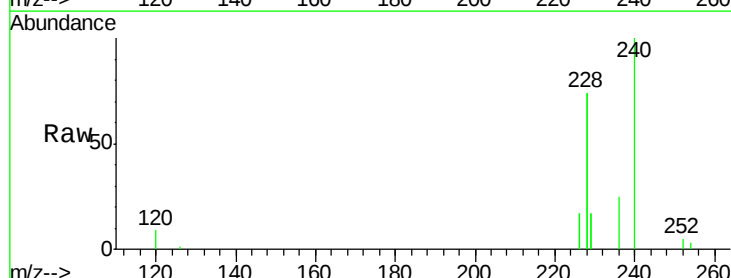
Instrument :
 BNA_E
 ClientSampleId :
 PB81408BS

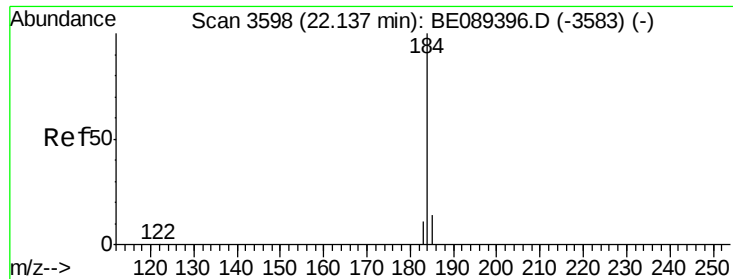
Tgt Ion: 266 Resp: 38254
 Ion Ratio Lower Upper
 266 100
 268 65.8 52.5 78.7
 264 61.8 48.8 73.2



#20
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.84 min Scan# 3872
 Delta R.T. 0.00 min
 Lab File: BE089401.D
 Acq: 28 Jan 2015 23:09

Tgt Ion: 240 Resp: 289506
 Ion Ratio Lower Upper
 240 100
 120 9.4 7.1 10.7
 236 24.5 19.5 29.3





#21

Benzidine

Concen: 14.91 ng

RT: 22.14 min Scan# 3599

Delta R.T. 0.00 min

Lab File: BE089401.D

Acq: 28 Jan 2015 23:09

Instrument :

BNA_E

ClientSampleId :

PB81408BS

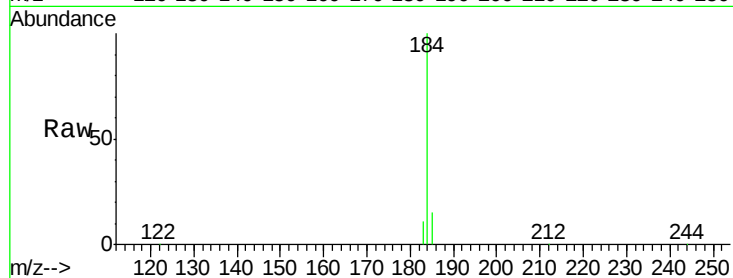
Tgt Ion:184 Resp: 509566

Ion Ratio Lower Upper

184 100

185 15.0 11.4 17.0

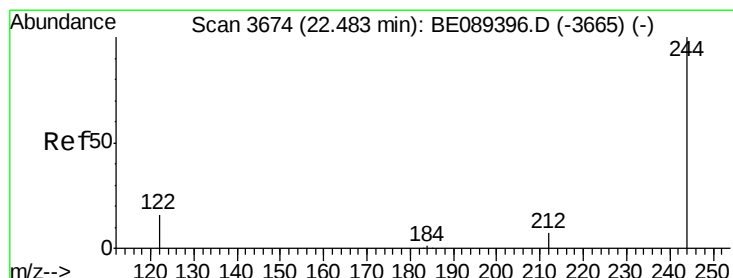
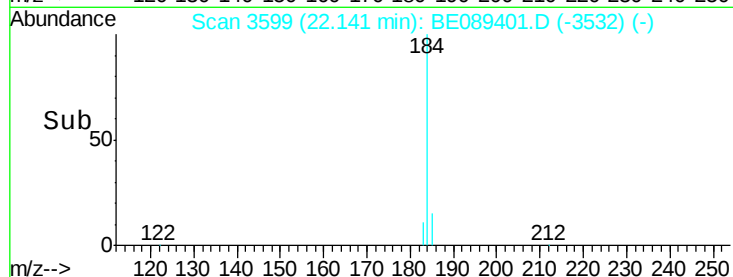
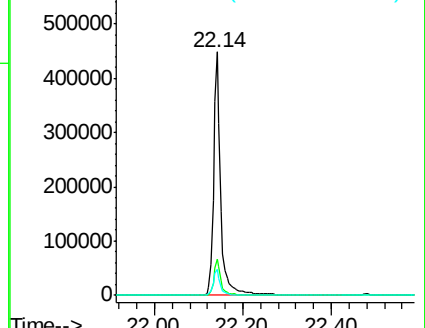
183 10.5 8.7 13.1



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



#22

Terphenyl-d14

Concen: 6.75 ng

RT: 22.48 min Scan# 3673

Delta R.T. -0.00 min

Lab File: BE089401.D

Acq: 28 Jan 2015 23:09

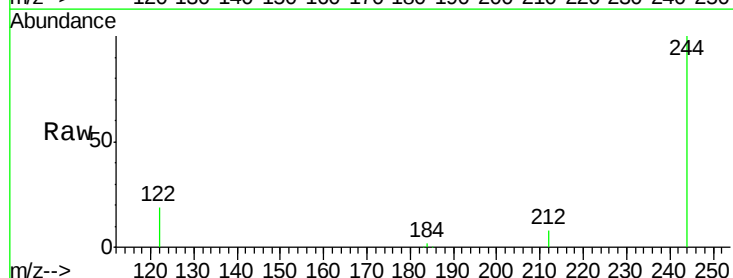
Tgt Ion:244 Resp: 216588

Ion Ratio Lower Upper

244 100

212 7.7 5.9 8.9

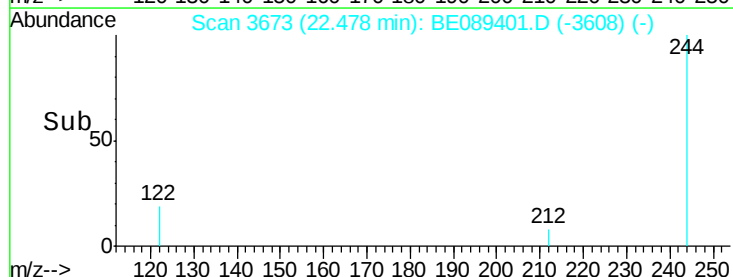
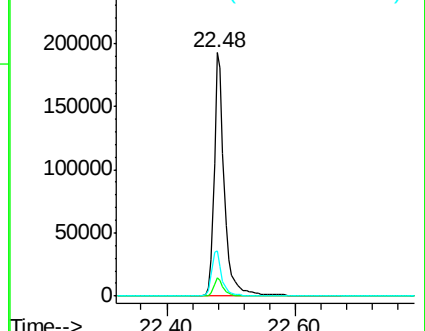
122 18.6 12.8 19.2

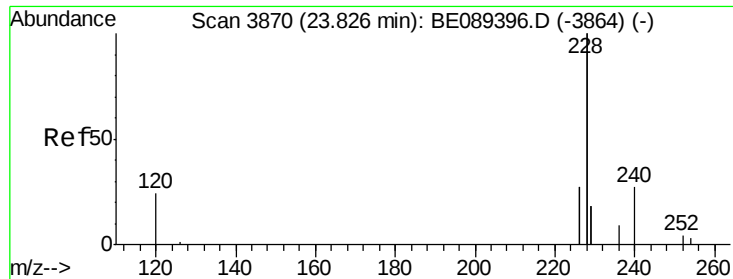


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#23

Benzo(a)anthracene

Concen: 7.65 ng

RT: 23.83 min Scan# 3870

Delta R.T. 0.00 min

Lab File: BE089401.D

Acq: 28 Jan 2015 23:09

Instrument :

BNA_E

ClientSampleId :

PB81408BS

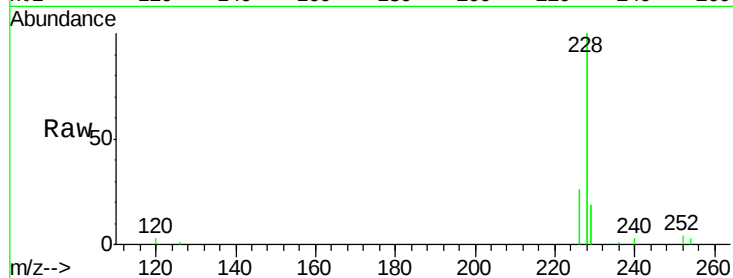
Tgt Ion:228 Resp: 2050675

Ion Ratio Lower Upper

228 100

226 25.9 21.8 32.6

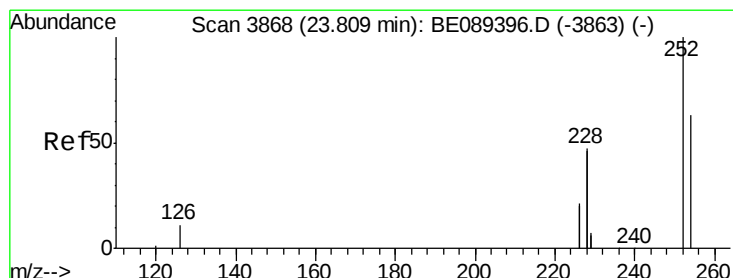
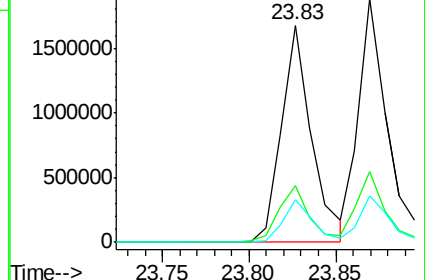
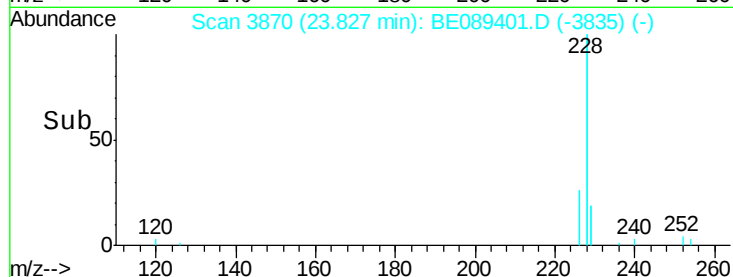
229 19.5 14.5 21.7



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

3,3'-Dichlorobenzidine

Concen: 11.05 ng

RT: 23.81 min Scan# 3868

Delta R.T. 0.00 min

Lab File: BE089401.D

Acq: 28 Jan 2015 23:09

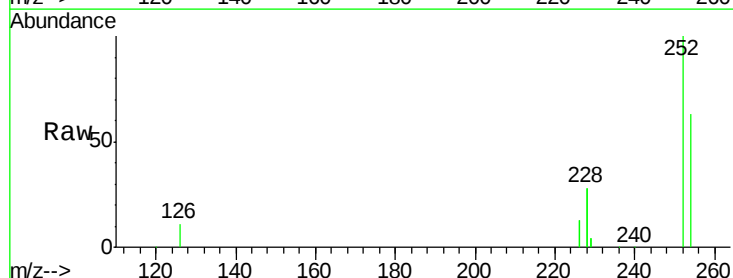
Tgt Ion:252 Resp: 236016

Ion Ratio Lower Upper

252 100

254 62.7 50.2 75.4

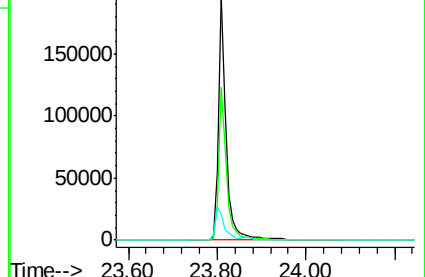
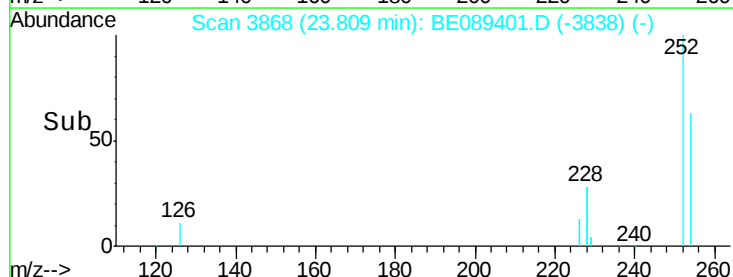
126 10.7 9.8 14.6

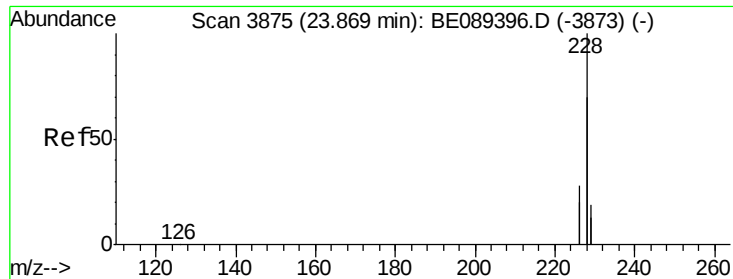


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#25

Chrysene

Concen: 7.20 ng

RT: 23.87 min Scan# 3875

Delta R.T. 0.00 min

Lab File: BE089401.D

Acq: 28 Jan 2015 23:09

Instrument :

BNA_E

ClientSampleId :

PB81408BS

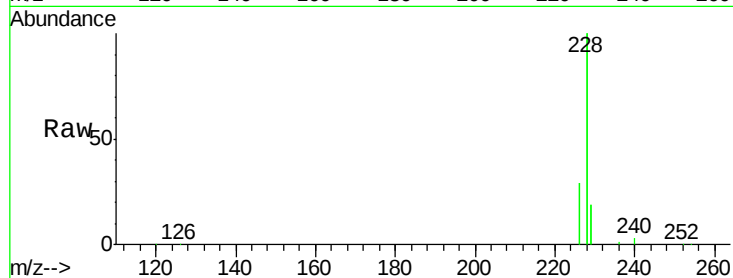
Tgt Ion:228 Resp: 2359944

Ion Ratio Lower Upper

228 100

226 28.9 22.7 34.1

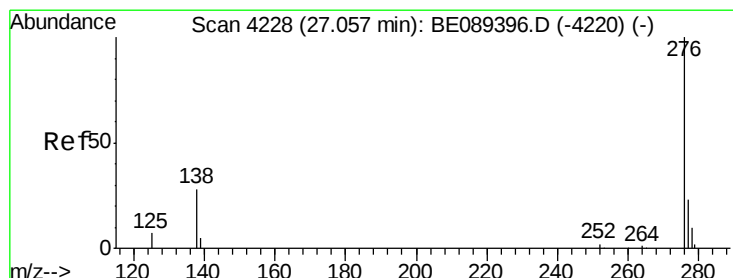
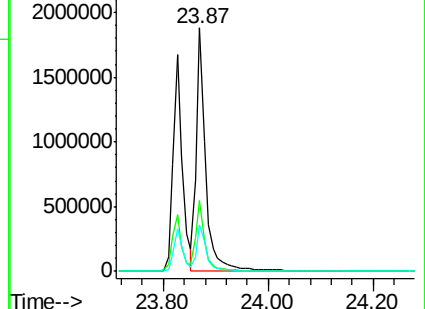
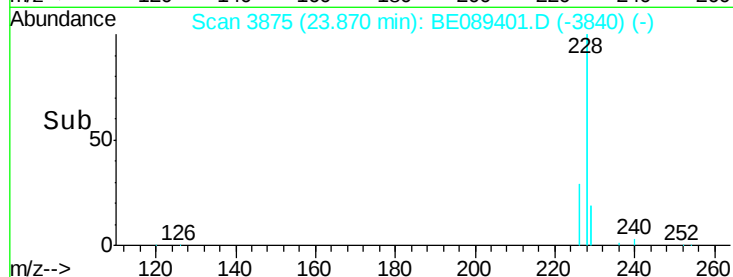
229 19.1 15.2 22.8



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#26

Indeno(1,2,3-cd)pyrene

Concen: 13.32 ng

RT: 27.07 min Scan# 4229

Delta R.T. 0.01 min

Lab File: BE089401.D

Acq: 28 Jan 2015 23:09

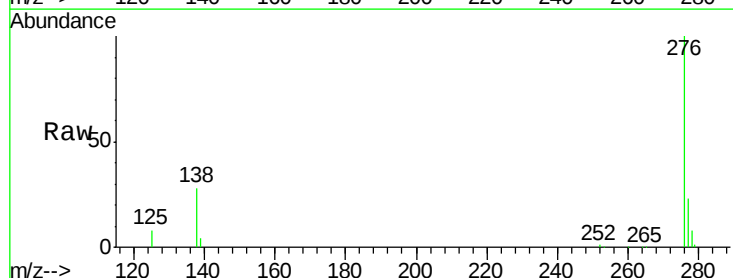
Tgt Ion:276 Resp: 1018151

Ion Ratio Lower Upper

276 100

138 33.5 0.0 0.0#

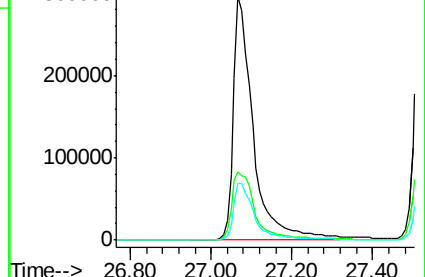
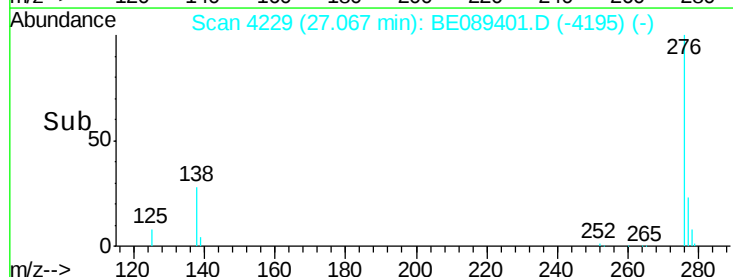
277 24.8 0.0 0.0#

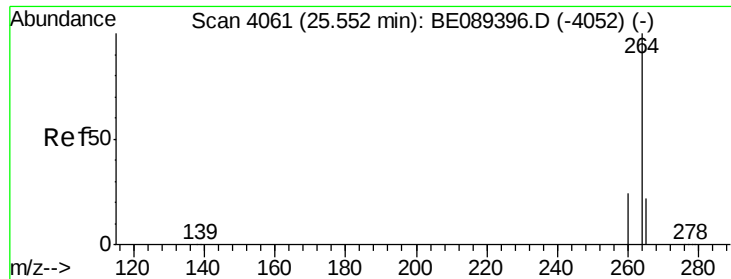


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

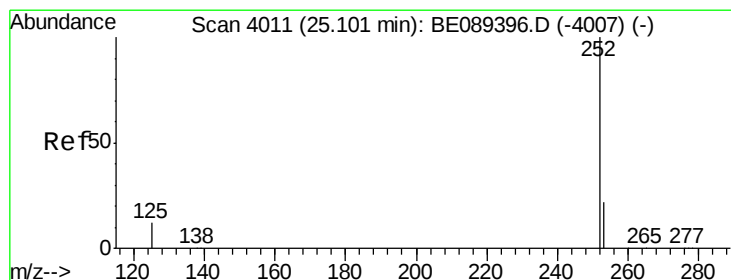
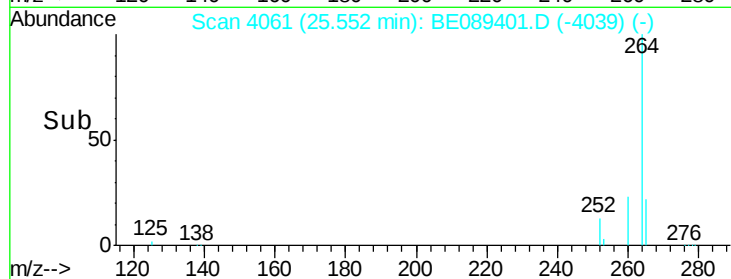
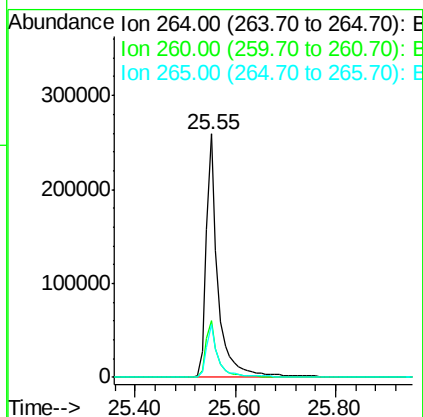
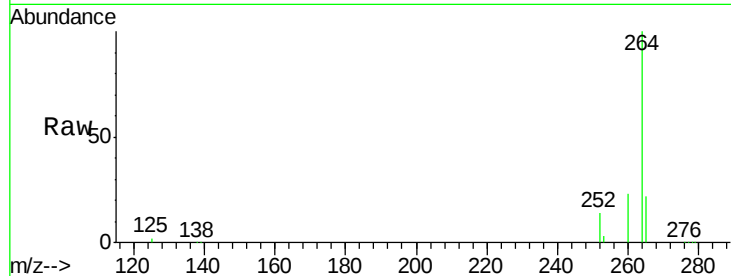




#27
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.55 min Scan# 4061
 Delta R.T. 0.00 min
 Lab File: BE089401.D
 Acq: 28 Jan 2015 23:09

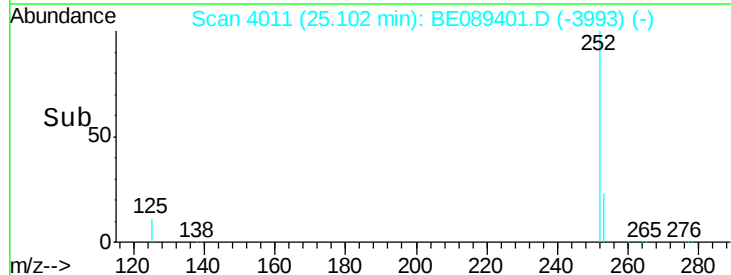
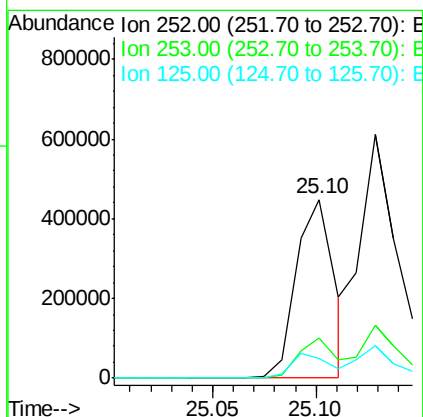
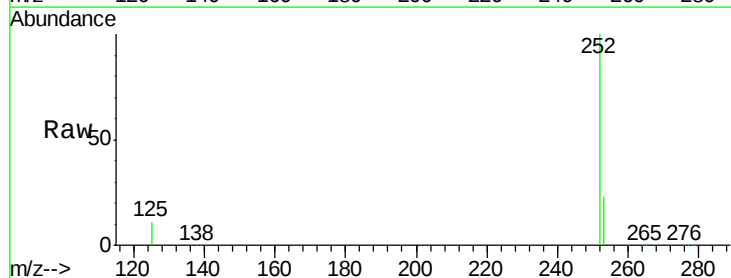
Instrument :
 BNA_E
 ClientSampleId :
 PB81408BS

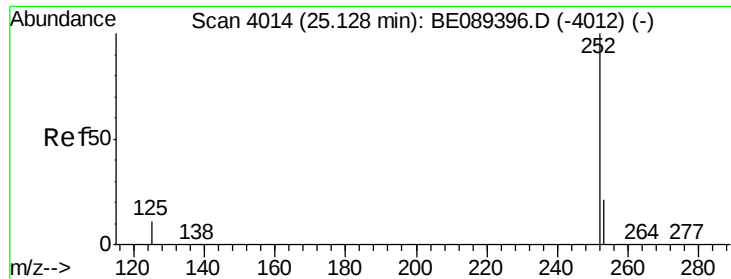
Tgt Ion: 264 Resp: 422664
 Ion Ratio Lower Upper
 264 100
 260 23.5 18.9 28.3
 265 21.9 17.5 26.3



#28
 Benzo(b)fluoranthene
 Concen: 10.24 ng
 RT: 25.10 min Scan# 4011
 Delta R.T. 0.00 min
 Lab File: BE089401.D
 Acq: 28 Jan 2015 23:09

Tgt Ion: 252 Resp: 568812
 Ion Ratio Lower Upper
 252 100
 253 22.7 17.6 26.4
 125 11.4 9.8 14.6

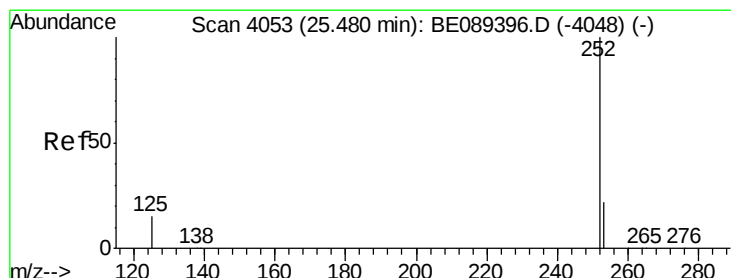
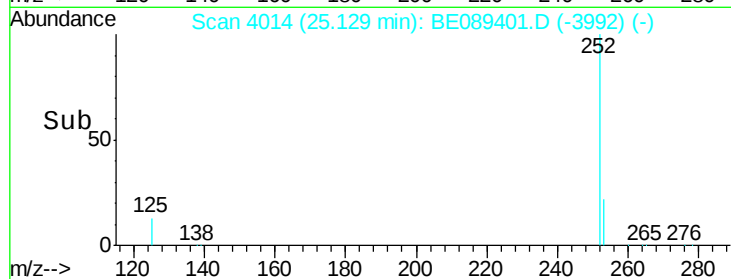
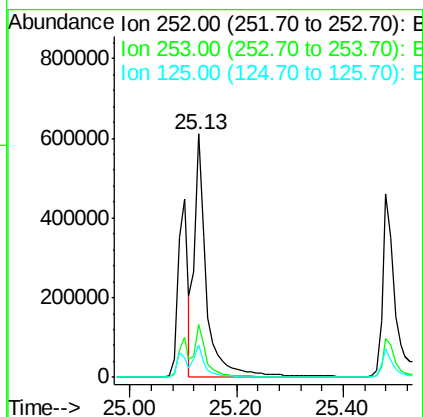
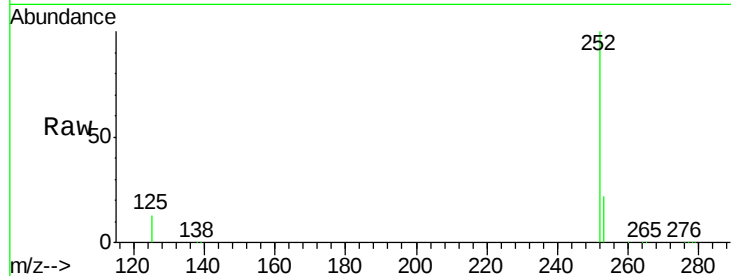




#29
Benzo(k)fluoranthene
Concen: 6.92 ng
RT: 25.13 min Scan# 4014
Delta R.T. 0.00 min
Lab File: BE089401.D
Acq: 28 Jan 2015 23:09

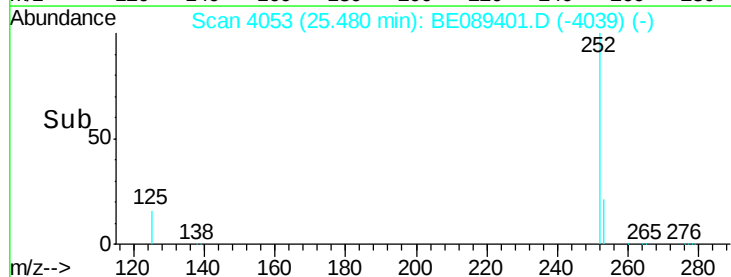
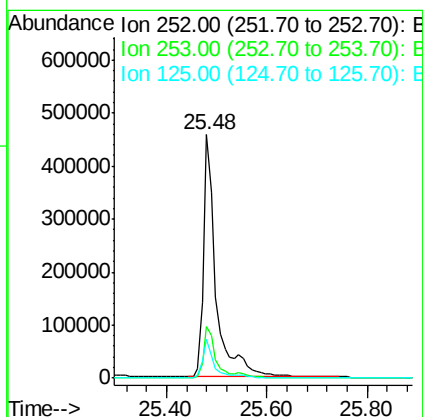
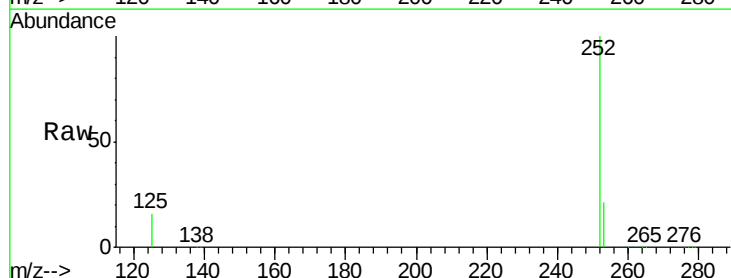
Instrument :
BNA_E
ClientSampleId :
PB81408BS

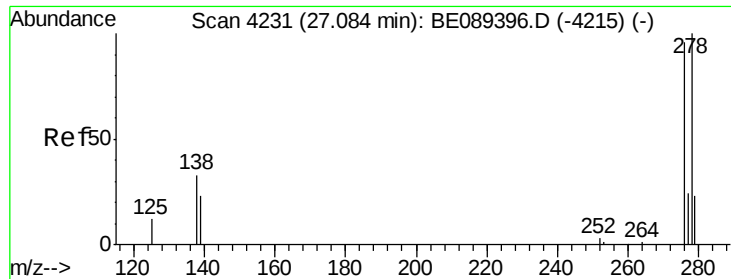
Tgt Ion:252 Resp: 931178
Ion Ratio Lower Upper
252 100
253 21.6 17.3 25.9
125 13.4 10.2 15.4



#30
Benzo(a)pyrene
Concen: 12.29 ng
RT: 25.48 min Scan# 4053
Delta R.T. 0.00 min
Lab File: BE089401.D
Acq: 28 Jan 2015 23:09

Tgt Ion:252 Resp: 801409
Ion Ratio Lower Upper
252 100
253 21.1 17.5 26.3
125 15.7 12.2 18.4





#31

Dibenzo(a,h)anthracene

Concen: 11.73 ng

RT: 27.09 min Scan# 4232

Delta R.T. 0.01 min

Lab File: BE089401.D

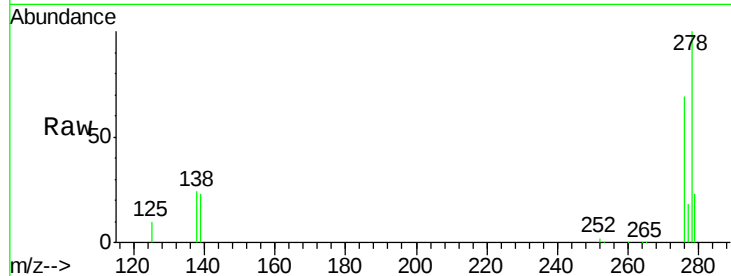
Acq: 28 Jan 2015 23:09

Instrument :

BNA_E

ClientSampleId :

PB81408BS



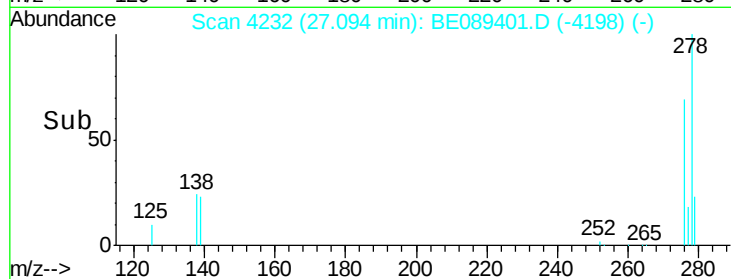
Tgt Ion: 278 Resp: 813470

Ion Ratio Lower Upper

278 100

139 22.7 18.5 27.7

279 23.4 18.6 28.0



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

