

Data Path : Z:\HPCHEM1\BNA_E\Data\BE021815\
 Data File : BE089624.D
 Acq On : 18 Feb 2015 18:55
 Operator : TP/IZ
 Sample : MDL-04-W
 Misc : MDL-WATER-0.1/0.2
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-04-W

Quant Time: Feb 19 04:57:57 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE021815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 18 13:01:39 2015
 Response via : Initial Calibration

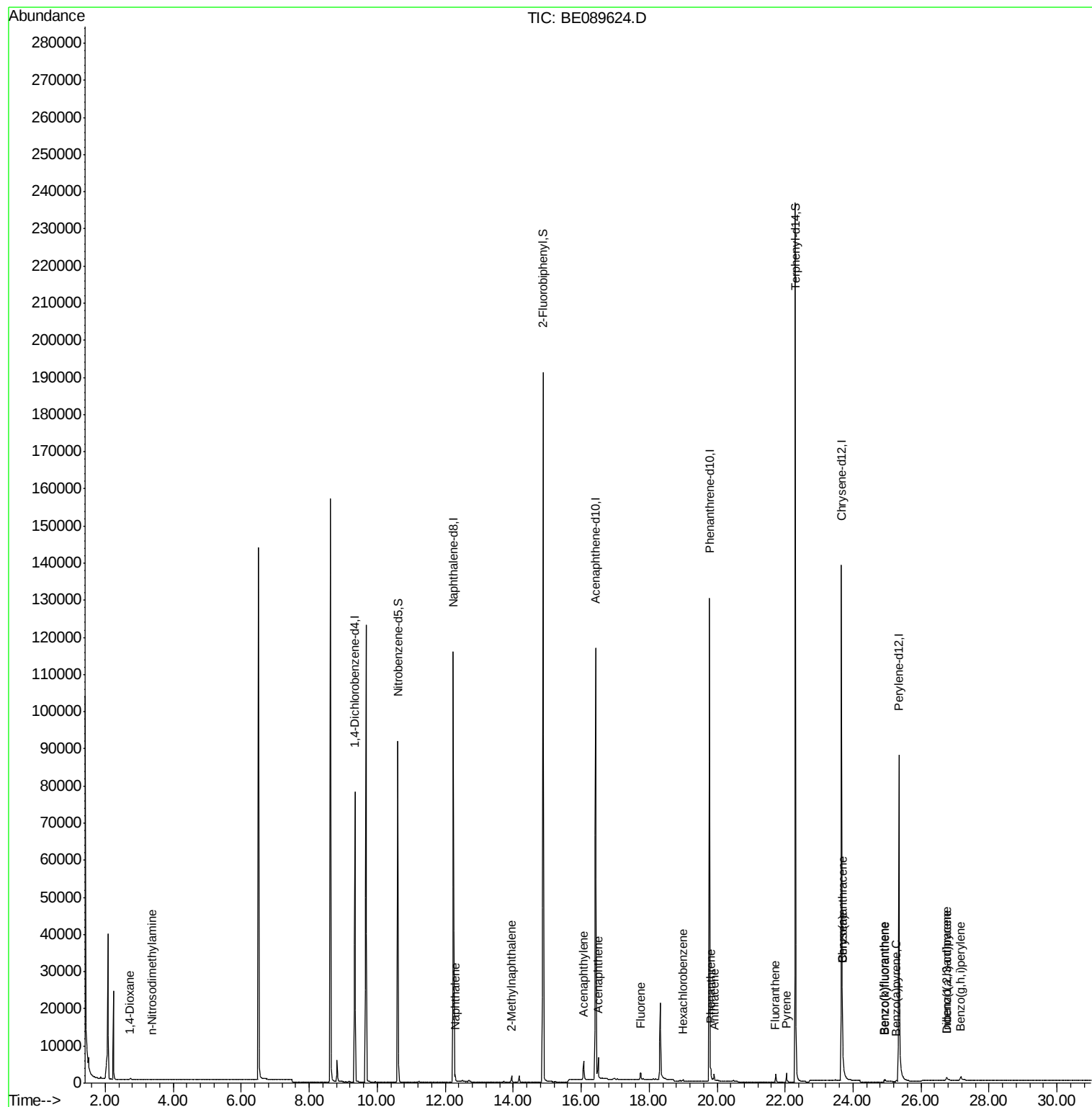
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	35924	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	141978	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	68928	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	134920	5.00	ng	0.00
19) Chrysene-d12	23.66	240	123468	5.00	ng	0.00
25) Perylene-d12	25.35	264	101594	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	65664	10.64	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	177205	9.60	ng	0.00
21) Terphenyl-d14	22.30	244	211440	11.91	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.74	88	281	0.06	ng	# 83
3) n-Nitrosodimethylamine	3.35	42	4	0.00	ng	# 35
6) Naphthalene	12.29	128	2327	0.07	ng	# 92
7) 2-Methylnaphthalene	13.95	142	1233	0.06	ng	97
10) Acenaphthylene	16.07	152	6666	0.06	ng	98
11) Acenaphthene	16.50	154	1278	0.07	ng	93
12) Fluorene	17.75	166	1414	0.07	ng	99
14) Hexachlorobenzene	19.00	284	428	0.07	ng	# 91
15) Pentachlorophenol	19.45	266	29	Below Cal		# 70
16) Phenanthrene	19.82	178	2383	0.07	ng	100
17) Anthracene	19.91	178	1657	0.06	ng	99
18) Fluoranthene	21.72	202	1758	0.06	ng	99
20) Pyrene	22.04	202	1878	0.06	ng	99
22) Benzo(a)anthracene	23.69	228	10409	0.10	ng	92
23) Chrysene	23.69	228	10554	0.09	ng	95
24) Indeno(1,2,3-cd)pyrene	26.75	276	2199	0.19	ng	95
26) Benzo(b)fluoranthene	24.91	252	512	0.29	ng	# 77
27) Benzo(k)fluoranthene	24.94	252	931	0.03	ng	# 79
28) Benzo(a)pyrene	25.27	252	547	0.26	ng	# 74
29) Dibenzo(a,h)anthracene	26.77	278	382	0.25	ng	# 57
30) Benzo(g,h,i)perylene	27.16	276	2929	0.16	ng	# 71

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

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QLast Update : Wed Feb 18 13:01:39 2015
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1300

Delta R.T. -0.00 min

Lab File: BE089624.D

Acq: 18 Feb 2015 18:55

Instrument :

BNA_E

ClientSampled :

MDL-04-W

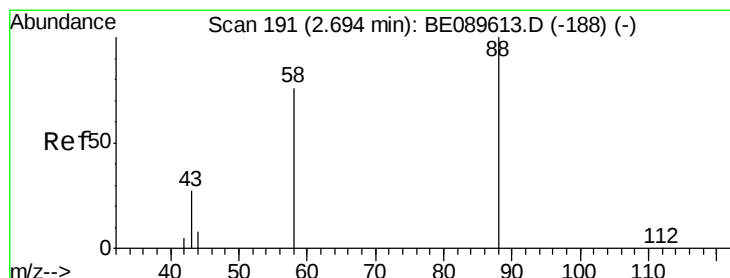
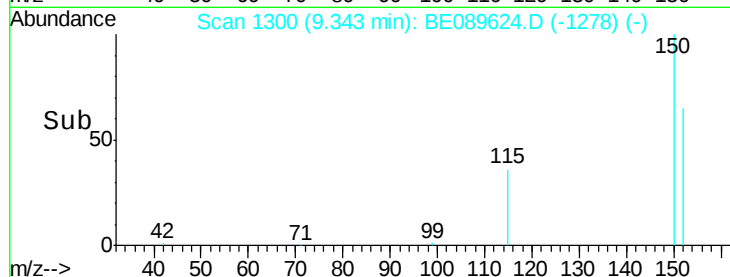
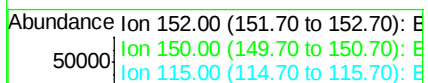
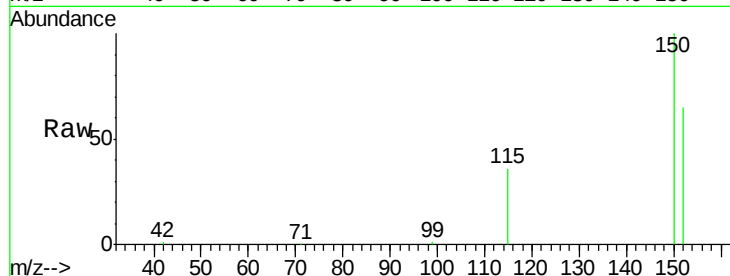
Tgt Ion:152 Resp: 35924

Ion Ratio Lower Upper

152 100

150 153.5 122.4 183.6

115 54.8 44.2 66.2



#2

1,4-Dioxane

Concen: 0.06 ng

RT: 2.74 min Scan# 197

Delta R.T. 0.04 min

Lab File: BE089624.D

Acq: 18 Feb 2015 18:55

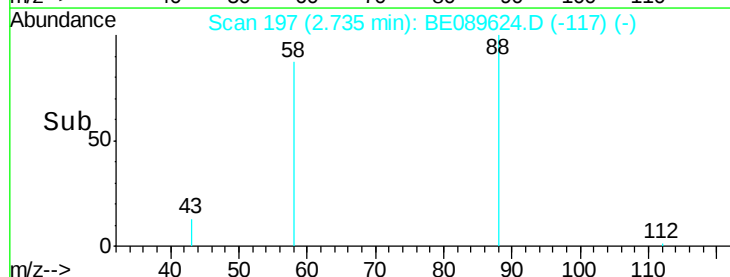
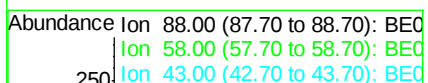
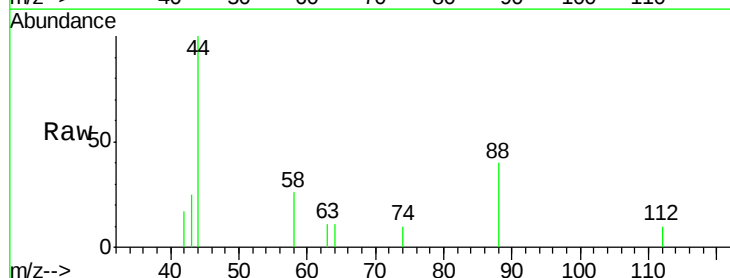
Tgt Ion: 88 Resp: 281

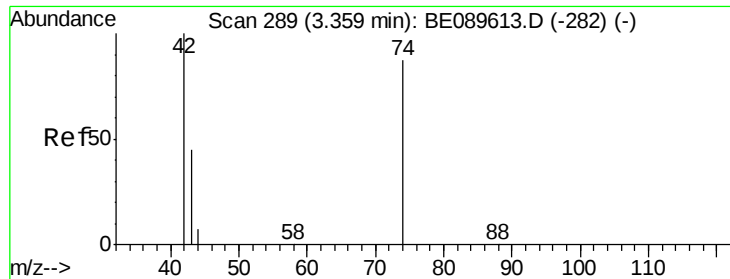
Ion Ratio Lower Upper

88 100

58 71.5 54.6 81.8

43 0.0 20.6 30.8#



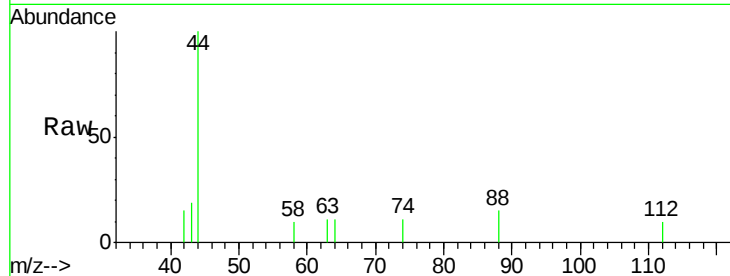


#3

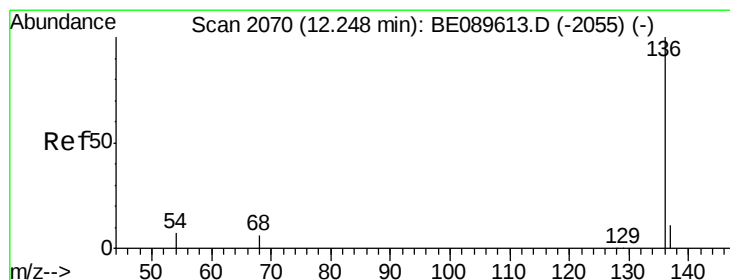
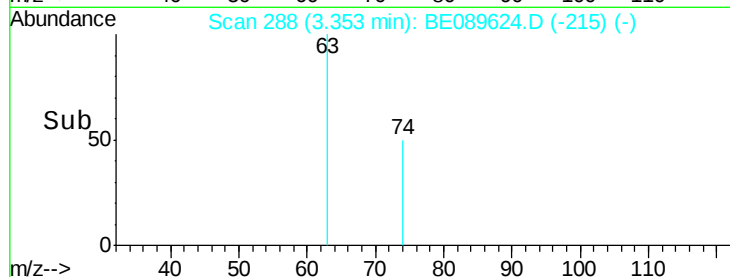
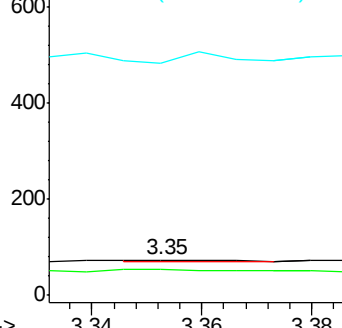
n-Nitrosodimethylamine
 Concen: 0.00 ng
 RT: 3.35 min Scan# 288
 Delta R.T. -0.01 min
 Lab File: BE089624.D
 Acq: 18 Feb 2015 18:55

Instrument :
 BNA_E
 ClientSampleId :
 MDL-04-W

Tgt Ion: 42 Resp: 4
 Ion Ratio Lower Upper
 42 100
 74 125.0 121.4 182.0
 44 425.0 4.5 6.7#



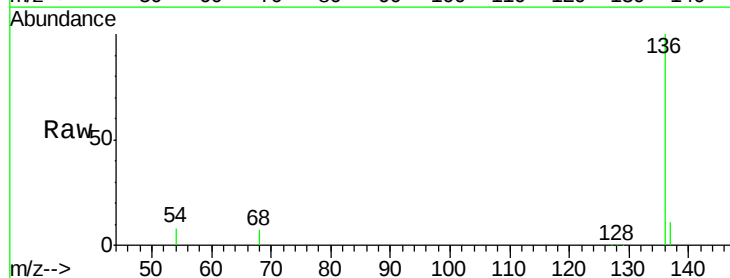
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



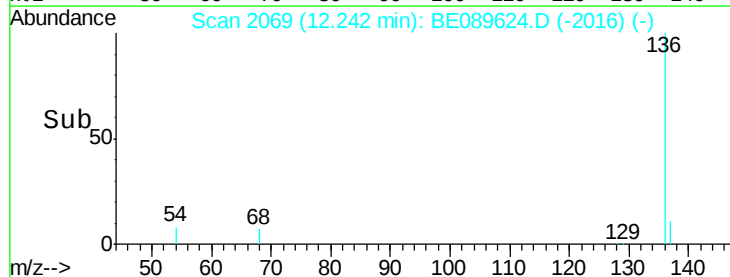
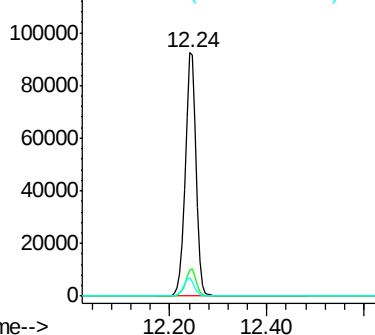
#4

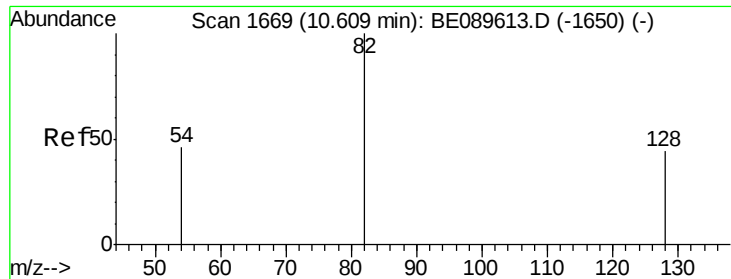
Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.24 min Scan# 2069
 Delta R.T. -0.01 min
 Lab File: BE089624.D
 Acq: 18 Feb 2015 18:55

Tgt Ion: 136 Resp: 141978
 Ion Ratio Lower Upper
 136 100
 137 10.8 8.9 13.3
 54 7.6 5.3 7.9



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: 10.64 ng

RT: 10.61 min Scan# 1668

Delta R.T. -0.00 min

Lab File: BE089624.D

Acq: 18 Feb 2015 18:55

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

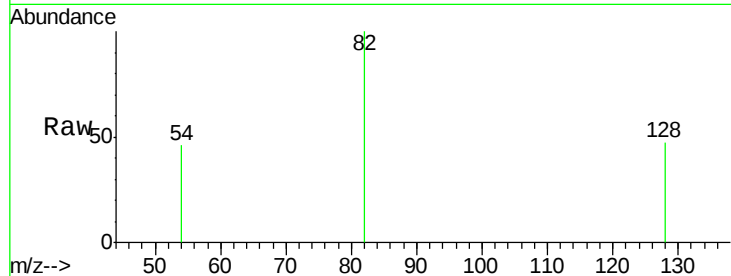
Tgt Ion: 82 Resp: 65664

Ion Ratio Lower Upper

82 100

128 47.3 35.5 53.3

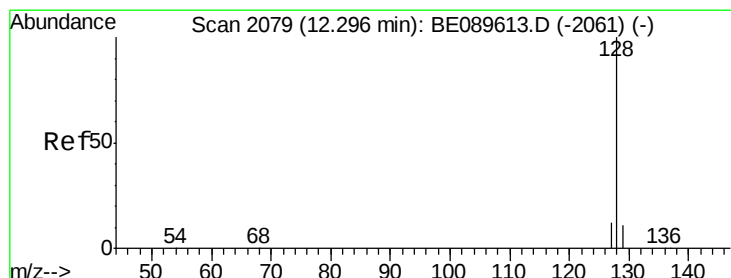
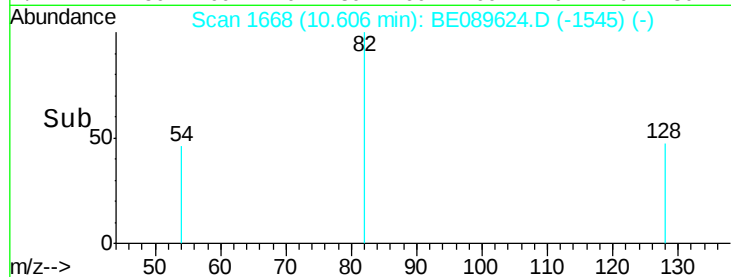
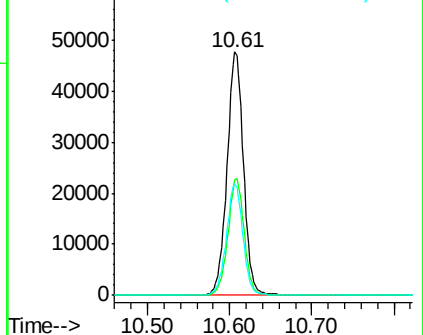
54 45.9 37.5 56.3



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#6

Naphthalene

Concen: 0.07 ng

RT: 12.29 min Scan# 2078

Delta R.T. -0.01 min

Lab File: BE089624.D

Acq: 18 Feb 2015 18:55

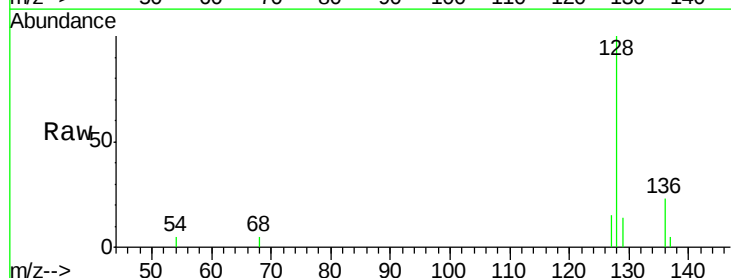
Tgt Ion: 128 Resp: 2327

Ion Ratio Lower Upper

128 100

129 14.0 8.9 13.3#

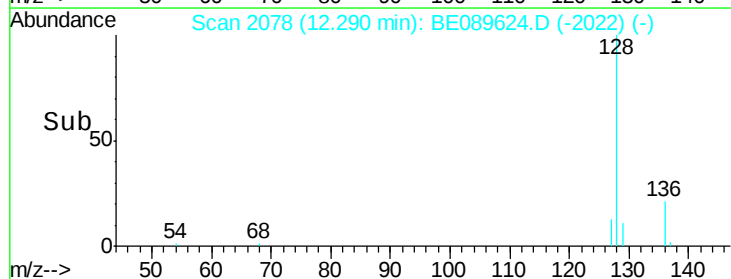
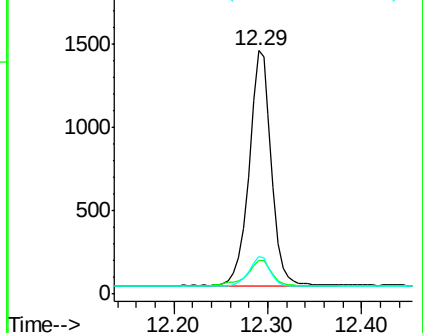
127 15.4 9.8 14.8#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 0.06 ng

RT: 13.95 min Scan# 2418

Delta R.T. 0.00 min

Lab File: BE089624.D

Acq: 18 Feb 2015 18:55

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

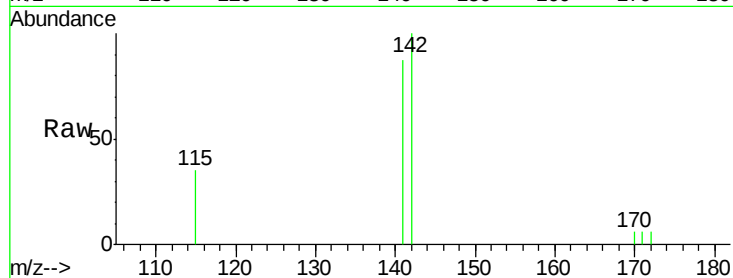
Tgt Ion:142 Resp: 1233

Ion Ratio Lower Upper

142 100

141 87.3 68.3 102.5

115 35.3 25.1 37.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

13.95

800

600

400

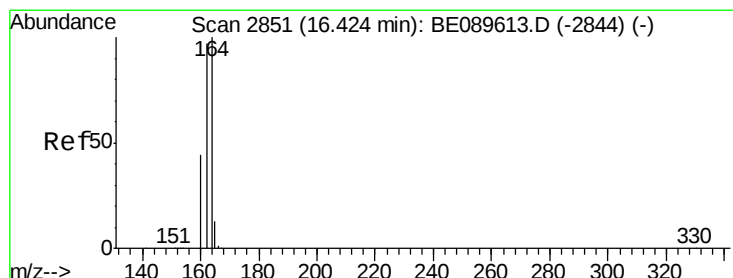
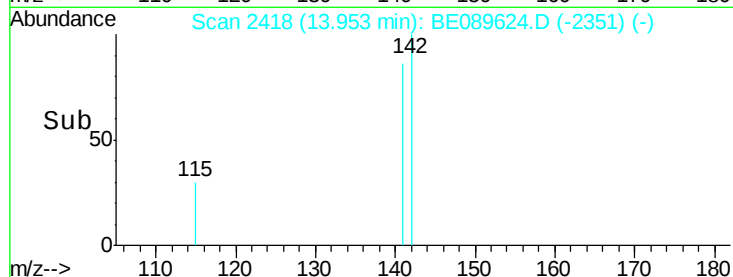
200

0

13.90

14.00

Time-->



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.42 min Scan# 2852

Delta R.T. -0.00 min

Lab File: BE089624.D

Acq: 18 Feb 2015 18:55

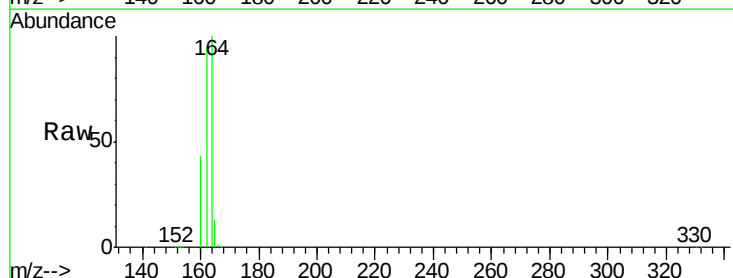
Tgt Ion:164 Resp: 68928

Ion Ratio Lower Upper

164 100

162 94.6 77.5 116.3

160 42.6 35.5 53.3



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

16.42

60000

50000

40000

30000

20000

10000

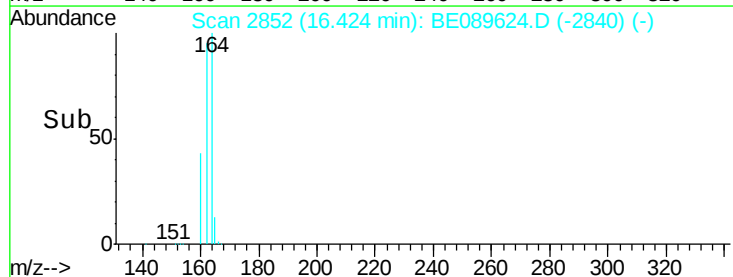
0

16.20

16.40

16.60

Time-->





#9

2-Fluorobiphenyl

Concen: 9.60 ng

RT: 14.88 min Scan# 2622

Delta R.T. -0.00 min

Lab File: BE089624.D

Acq: 18 Feb 2015 18:55

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

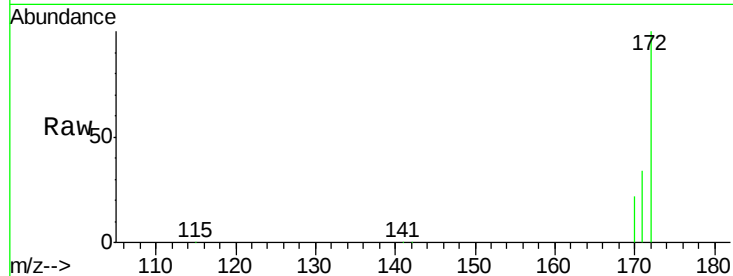
Tgt Ion:172 Resp: 177205

Ion Ratio Lower Upper

172 100

171 33.6 26.9 40.3

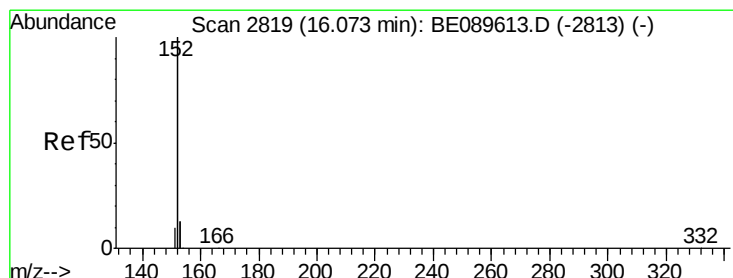
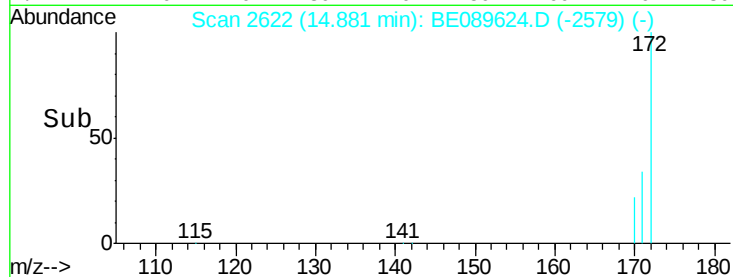
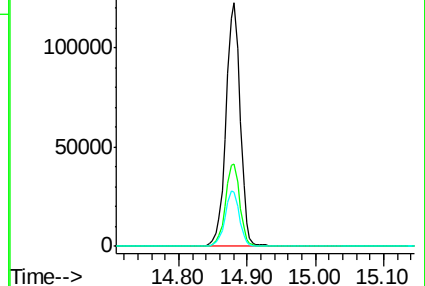
170 22.0 17.4 26.0



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: 0.06 ng

RT: 16.07 min Scan# 2820

Delta R.T. -0.00 min

Lab File: BE089624.D

Acq: 18 Feb 2015 18:55

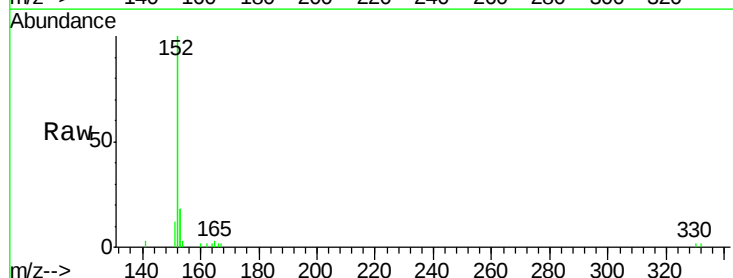
Tgt Ion:152 Resp: 6666

Ion Ratio Lower Upper

152 100

151 4.9 3.9 5.9

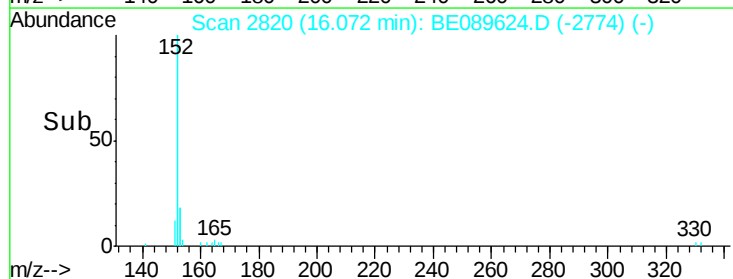
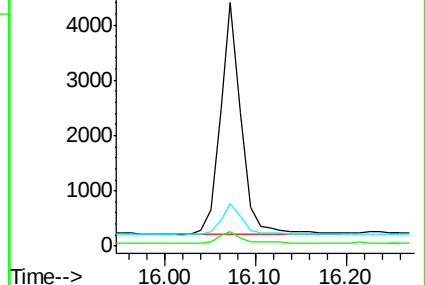
153 14.1 10.5 15.7

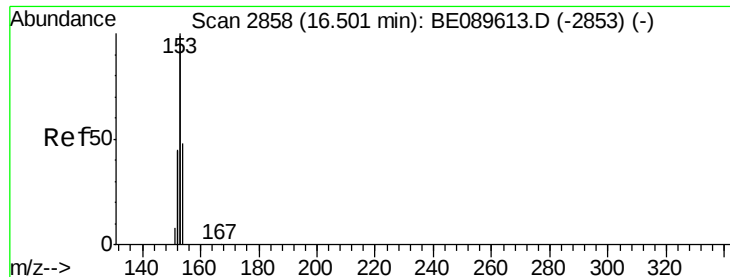


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.07 ng

RT: 16.50 min Scan# 2859

Delta R.T. -0.00 min

Lab File: BE089624.D

Acq: 18 Feb 2015 18:55

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

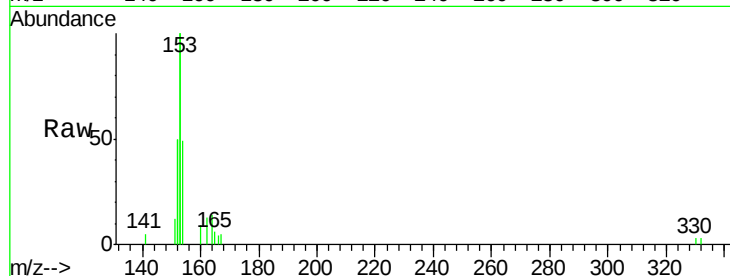
Tgt Ion:154 Resp: 1278

Ion Ratio Lower Upper

154 100

153 442.1 348.9 523.3

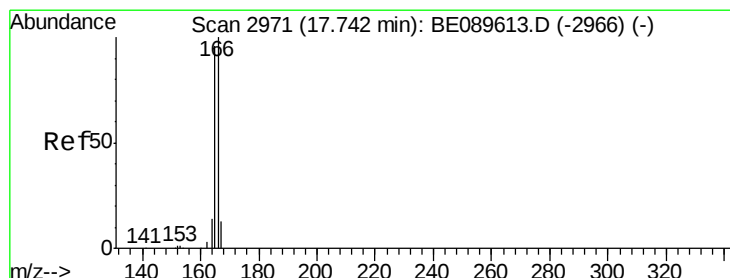
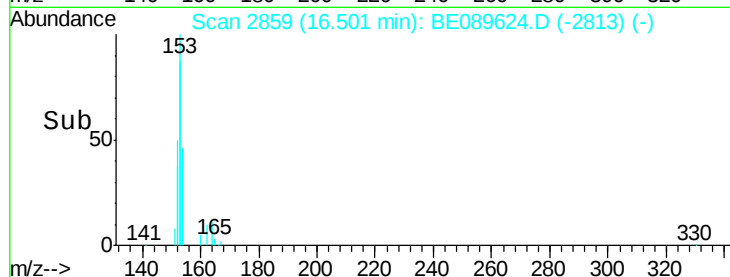
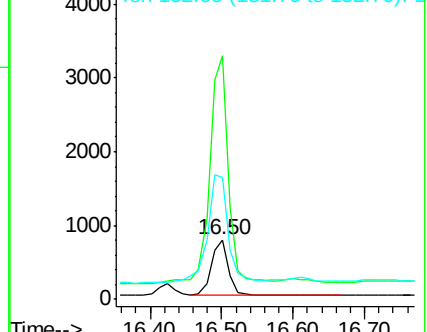
152 234.7 166.6 249.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#12

Fluorene

Concen: 0.07 ng

RT: 17.75 min Scan# 2973

Delta R.T. 0.01 min

Lab File: BE089624.D

Acq: 18 Feb 2015 18:55

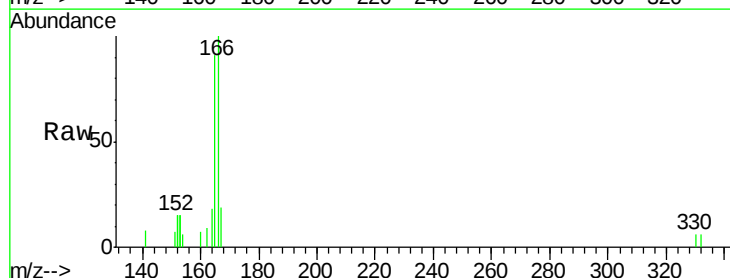
Tgt Ion:166 Resp: 1414

Ion Ratio Lower Upper

166 100

165 93.2 74.7 112.1

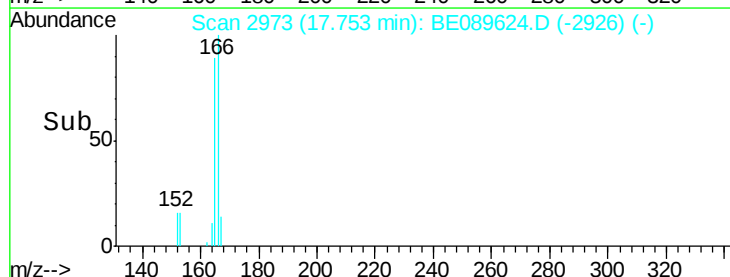
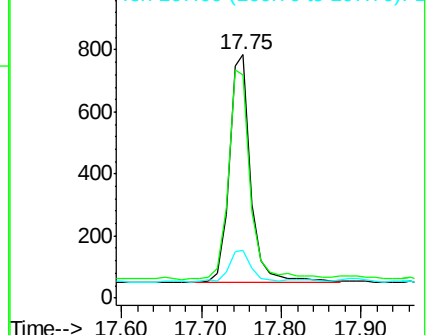
167 14.9 10.5 15.7

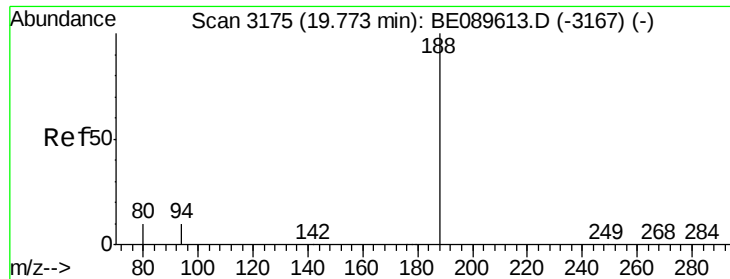


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.77 min Scan# 3176

Delta R.T. 0.00 min

Lab File: BE089624.D

Acq: 18 Feb 2015 18:55

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

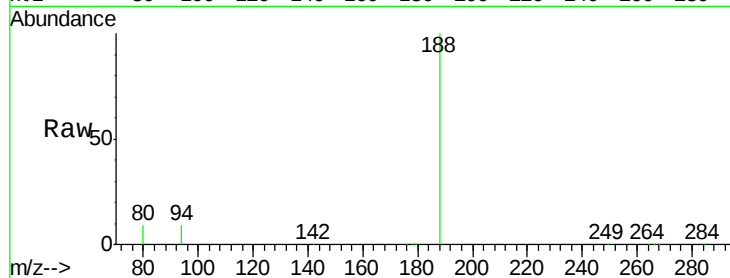
Tgt Ion:188 Resp: 134920

Ion Ratio Lower Upper

188 100

94 9.4 8.2 12.4

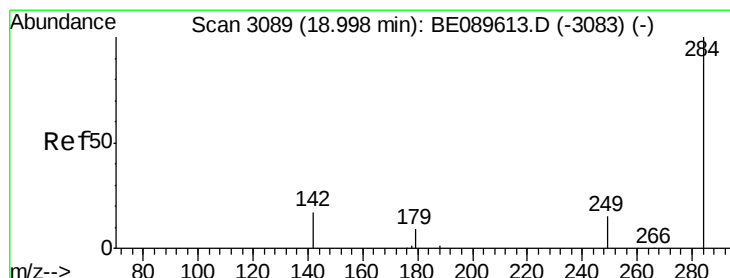
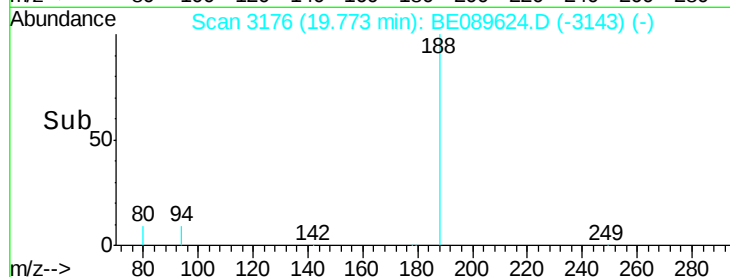
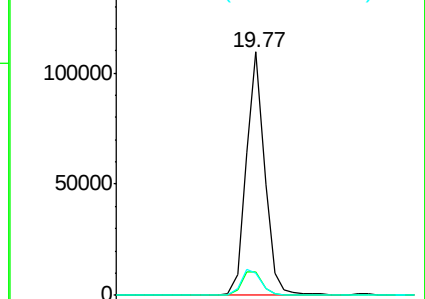
80 9.2 8.1 12.1



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: 0.07 ng

RT: 19.00 min Scan# 3090

Delta R.T. 0.00 min

Lab File: BE089624.D

Acq: 18 Feb 2015 18:55

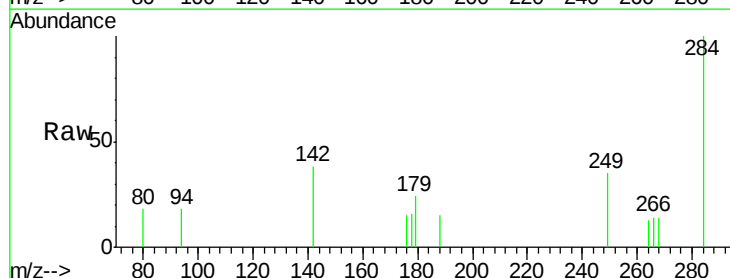
Tgt Ion:284 Resp: 428

Ion Ratio Lower Upper

284 100

142 49.1 32.3 48.5#

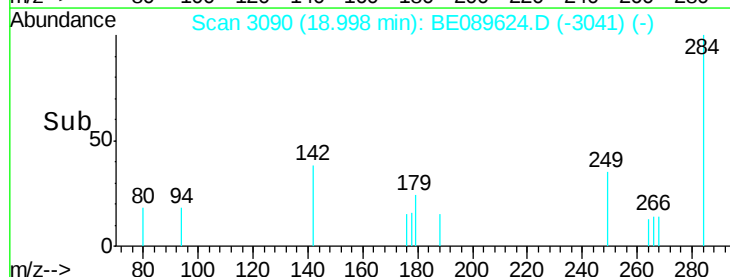
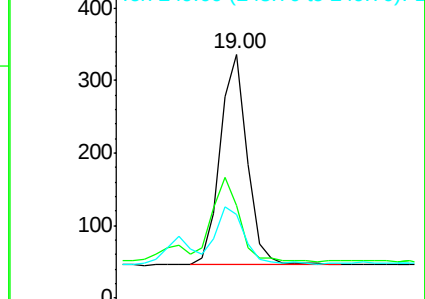
249 28.5 22.3 33.5



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

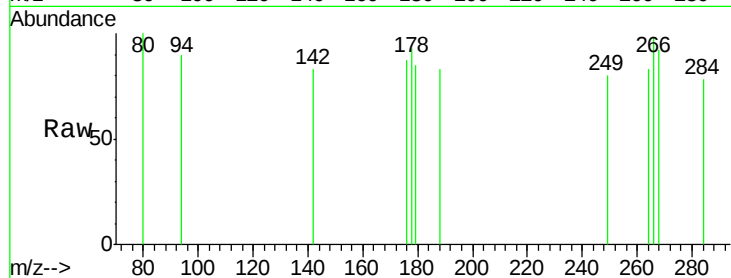




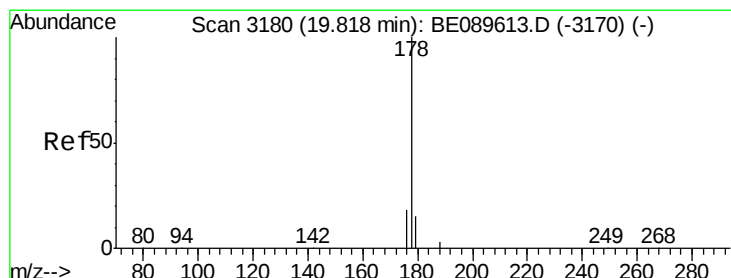
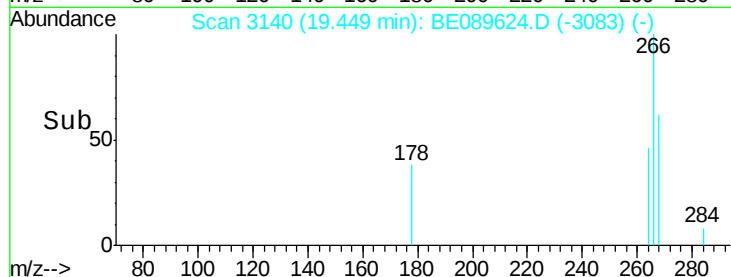
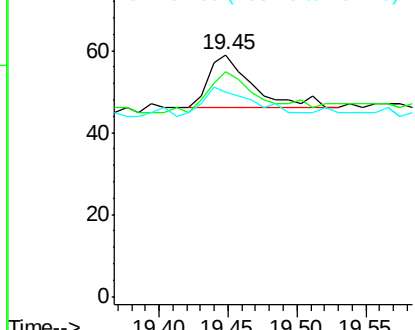
#15
 Pentachlorophenol
 Concen: Below Cal
 RT: 19.45 min Scan# 3140
 Delta R.T. 0.01 min
 Lab File: BE089624.D
 Acq: 18 Feb 2015 18:55

Instrument :
 BNA_E
 ClientSampleId :
 MDL-04-W

Tgt Ion: 266 Resp: 29
 Ion Ratio Lower Upper
 266 100
 268 93.2 52.6 79.0#
 264 84.7 51.8 77.8#

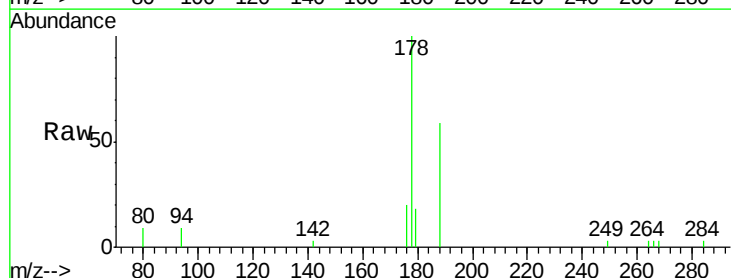


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

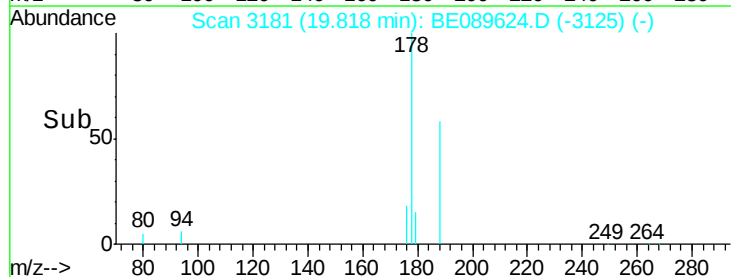
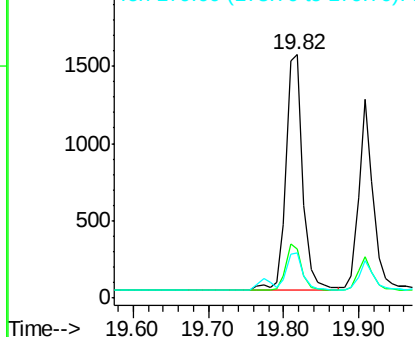


#16
 Phenanthrene
 Concen: 0.07 ng
 RT: 19.82 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: BE089624.D
 Acq: 18 Feb 2015 18:55

Tgt Ion: 178 Resp: 2383
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.1 22.7
 179 15.4 12.3 18.5



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

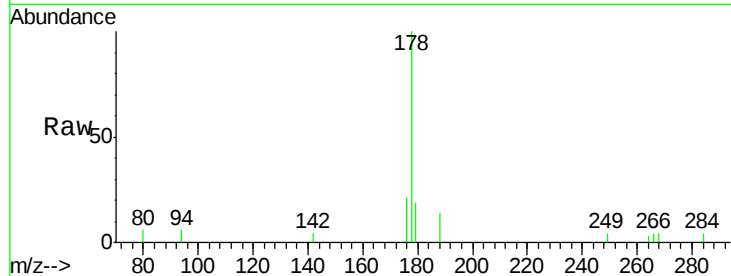




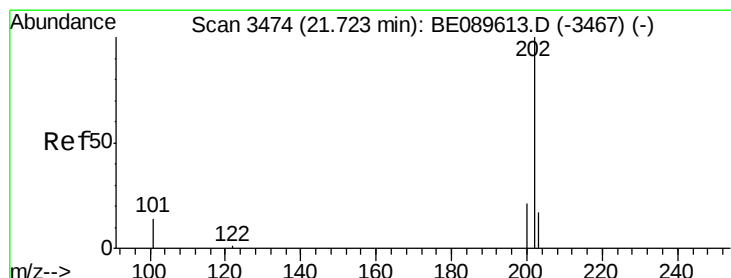
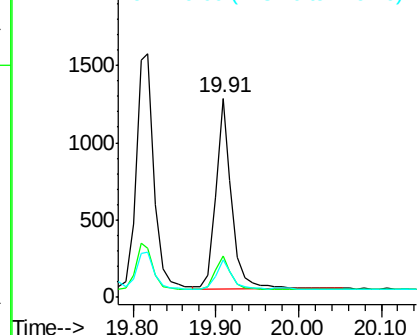
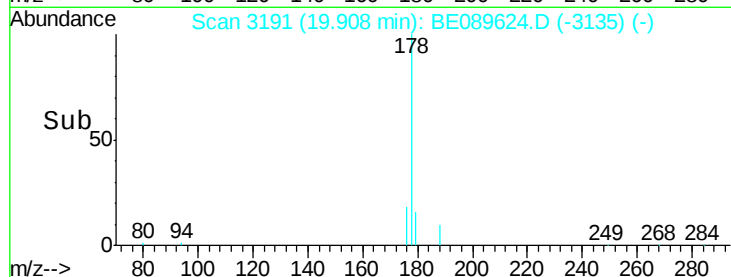
#17
 Anthracene
 Concen: 0.06 ng
 RT: 19.91 min Scan# 3191
 Delta R.T. 0.00 min
 Lab File: BE089624.D
 Acq: 18 Feb 2015 18:55

Instrument :
 BNA_E
 ClientSampleId :
 MDL-04-W

Tgt Ion:178 Resp: 1657
 Ion Ratio Lower Upper
 178 100
 176 18.6 14.6 22.0
 179 15.9 12.3 18.5

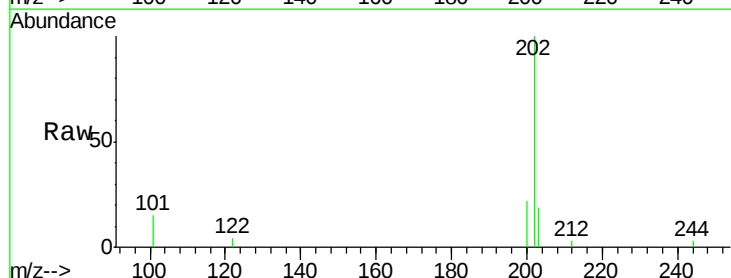


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

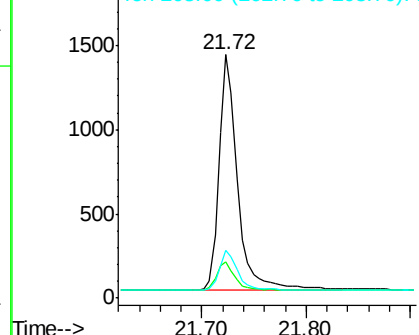
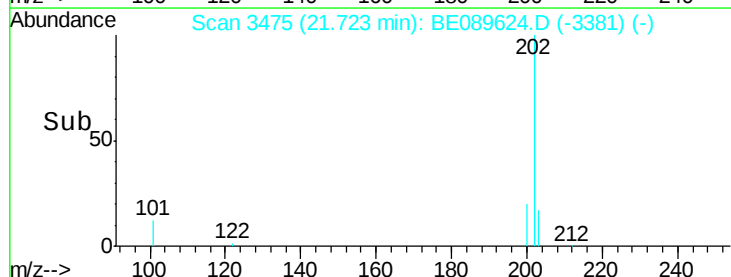


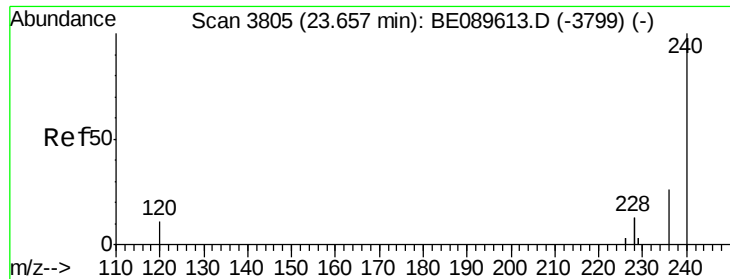
#18
 Fluoranthene
 Concen: 0.06 ng
 RT: 21.72 min Scan# 3475
 Delta R.T. 0.00 min
 Lab File: BE089624.D
 Acq: 18 Feb 2015 18:55

Tgt Ion:202 Resp: 1758
 Ion Ratio Lower Upper
 202 100
 101 12.2 10.4 15.6
 203 17.0 13.9 20.9



Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3806

Delta R.T. -0.00 min

Lab File: BE089624.D

Acq: 18 Feb 2015 18:55

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

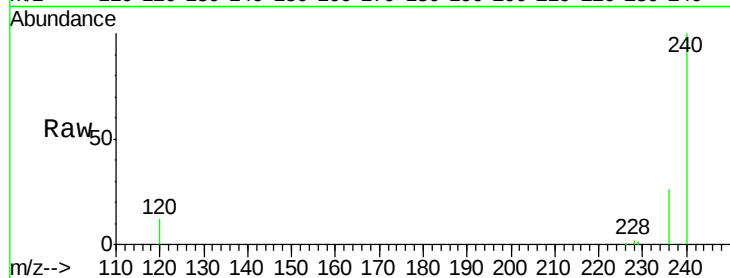
Tgt Ion:240 Resp: 123468

Ion Ratio Lower Upper

240 100

120 12.4 9.0 13.4

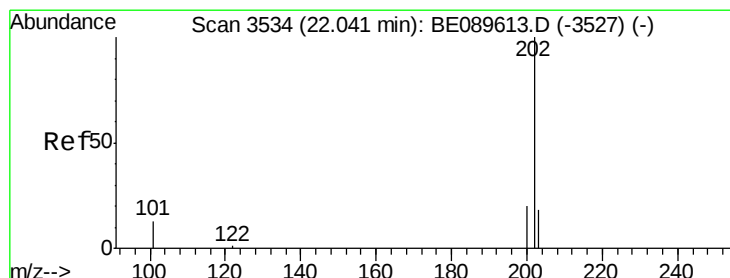
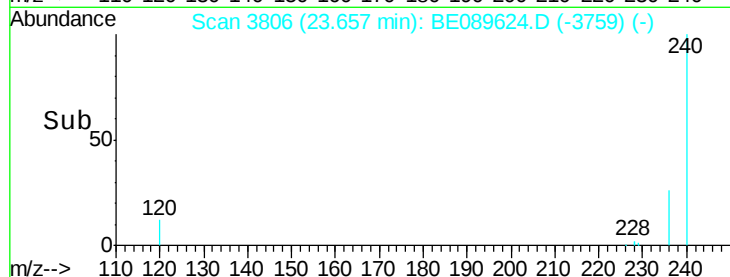
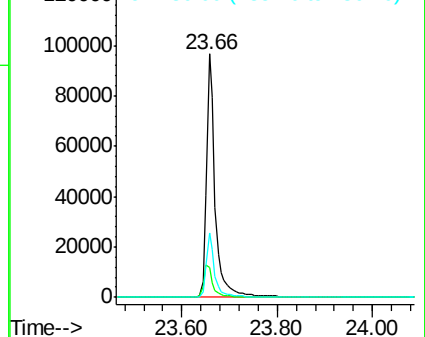
236 26.4 21.0 31.6



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#20

Pyrene

Concen: 0.06 ng

RT: 22.04 min Scan# 3535

Delta R.T. 0.00 min

Lab File: BE089624.D

Acq: 18 Feb 2015 18:55

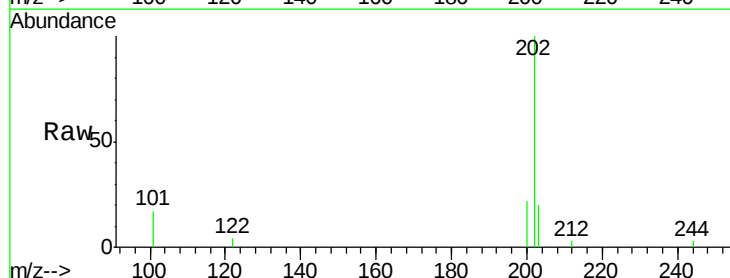
Tgt Ion:202 Resp: 1878

Ion Ratio Lower Upper

202 100

200 19.9 16.3 24.5

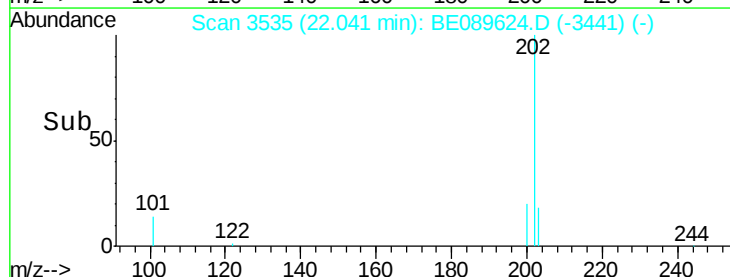
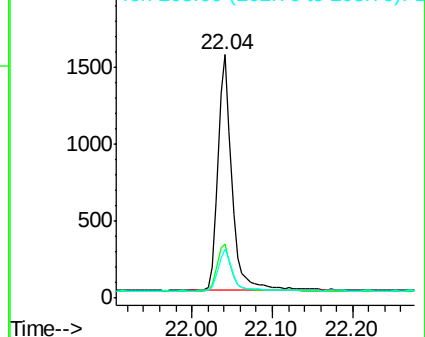
203 17.4 13.8 20.8



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: 11.91 ng

RT: 22.30 min Scan# 3584

Delta R.T. 0.00 min

Lab File: BE089624.D

Acq: 18 Feb 2015 18:55

Instrument :

BNA_E

ClientSampled :

MDL-04-W

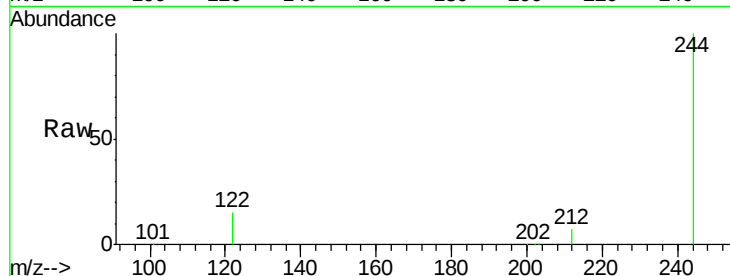
Tgt Ion:244 Resp: 211440

Ion Ratio Lower Upper

244 100

212 7.2 5.8 8.8

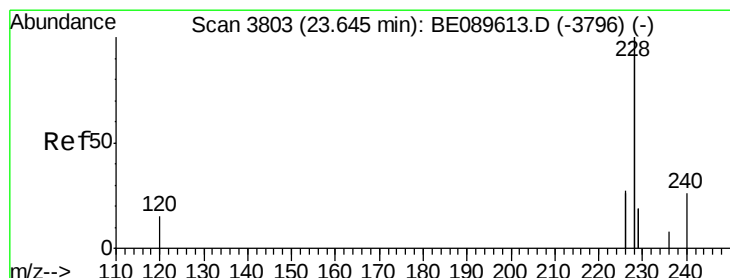
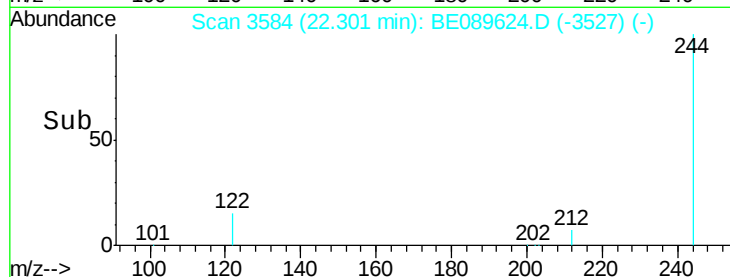
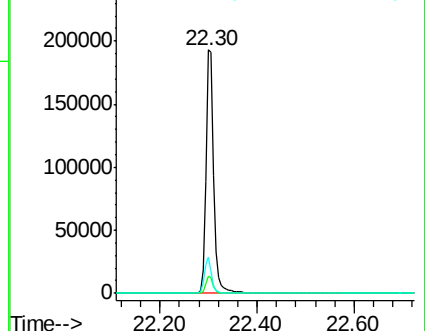
122 14.9 11.8 17.8



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: 0.10 ng

RT: 23.69 min Scan# 3811

Delta R.T. 0.04 min

Lab File: BE089624.D

Acq: 18 Feb 2015 18:55

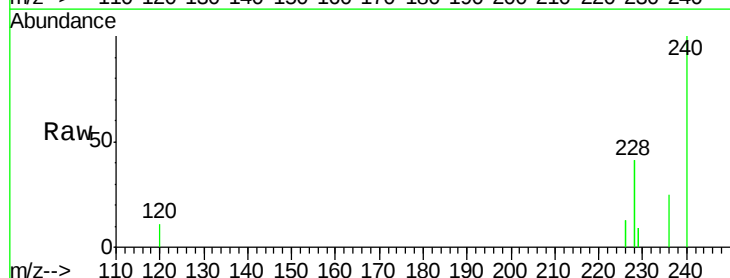
Tgt Ion:228 Resp: 10409

Ion Ratio Lower Upper

228 100

226 30.7 21.2 31.8

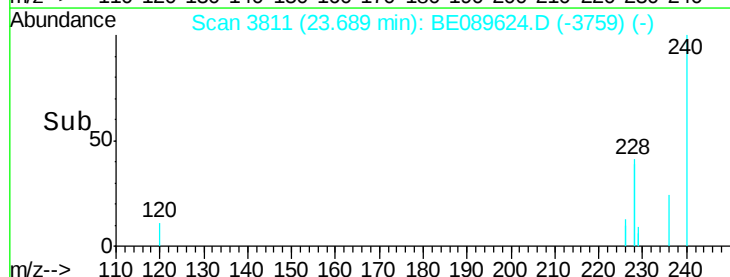
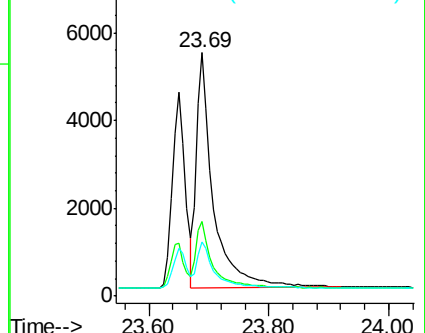
229 22.2 15.2 22.8

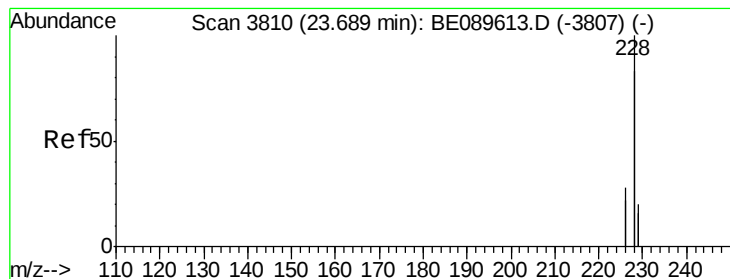


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 0.09 ng

RT: 23.69 min Scan# 3811

Delta R.T. -0.00 min

Lab File: BE089624.D

Acq: 18 Feb 2015 18:55

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

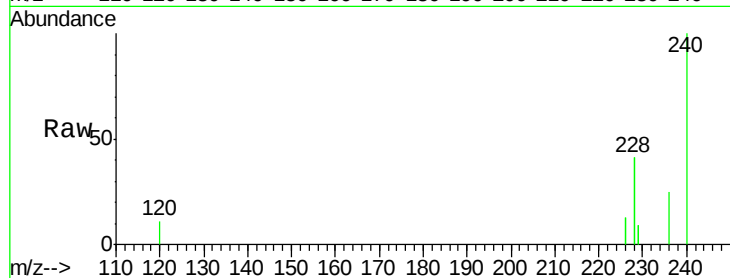
Tgt Ion:228 Resp: 10554

Ion Ratio Lower Upper

228 100

226 30.7 22.2 33.4

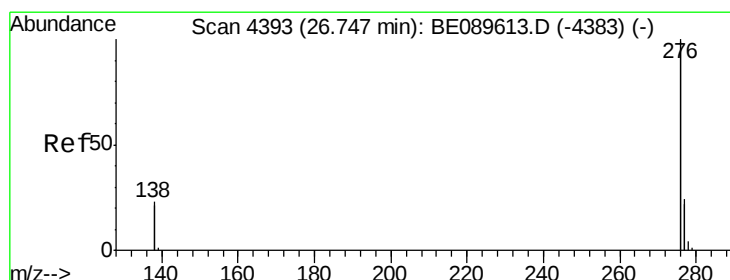
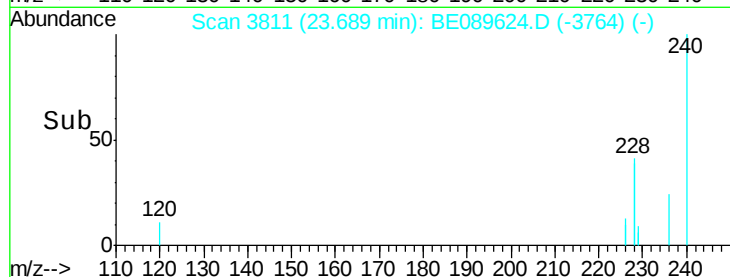
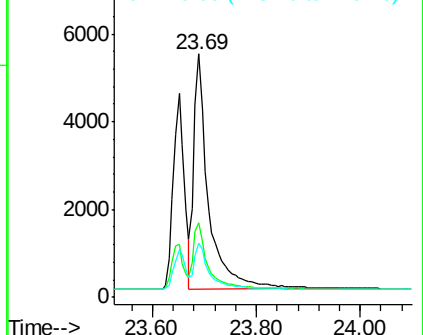
229 22.2 16.0 24.0



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: 0.19 ng

RT: 26.75 min Scan# 4394

Delta R.T. 0.00 min

Lab File: BE089624.D

Acq: 18 Feb 2015 18:55

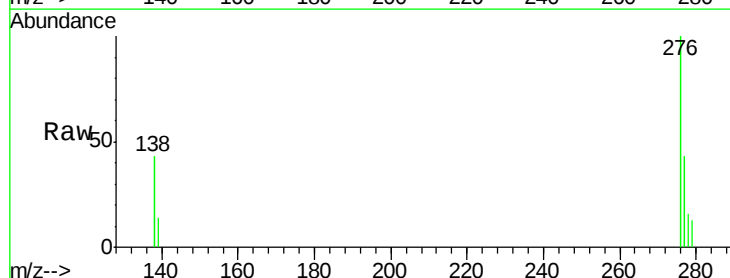
Tgt Ion:276 Resp: 2199

Ion Ratio Lower Upper

276 100

138 23.1 21.4 32.2

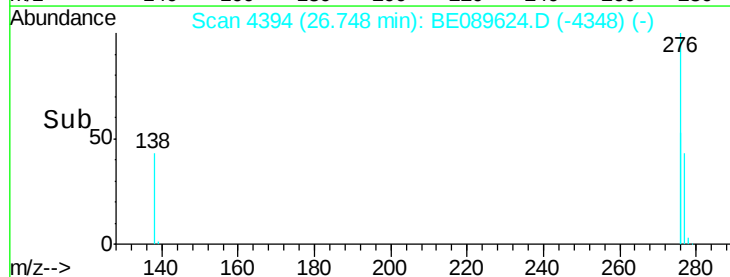
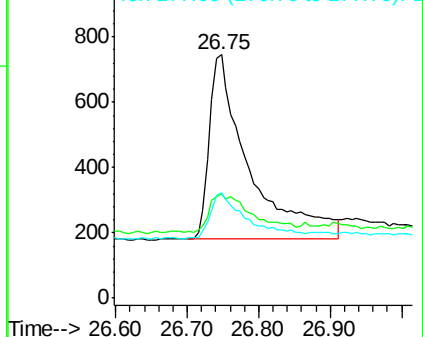
277 23.2 19.9 29.9

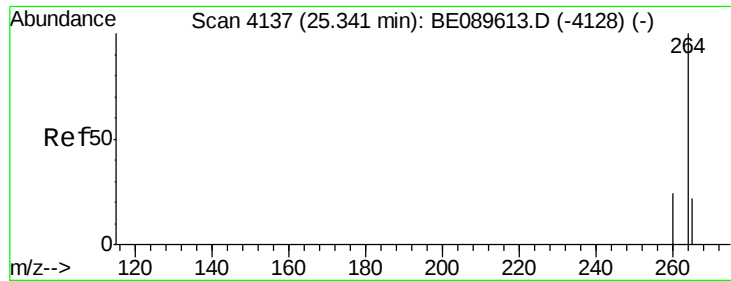


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

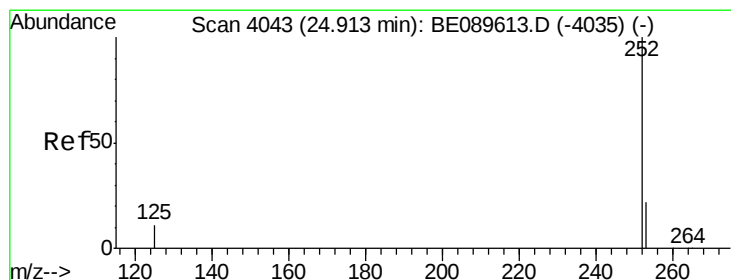
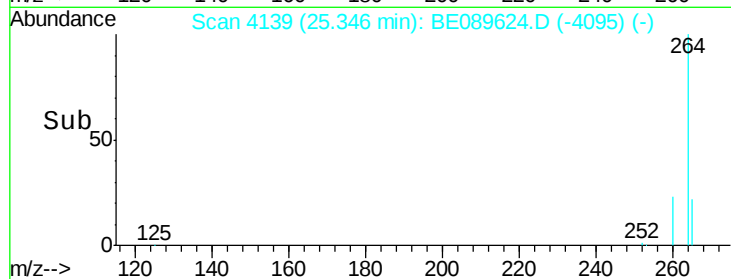
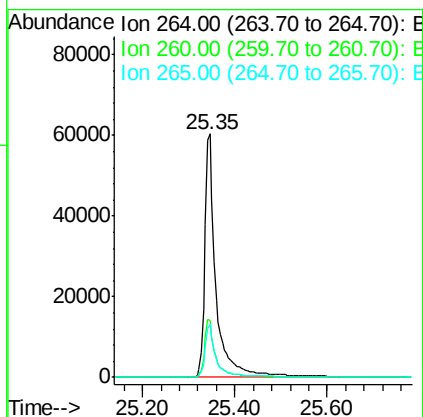
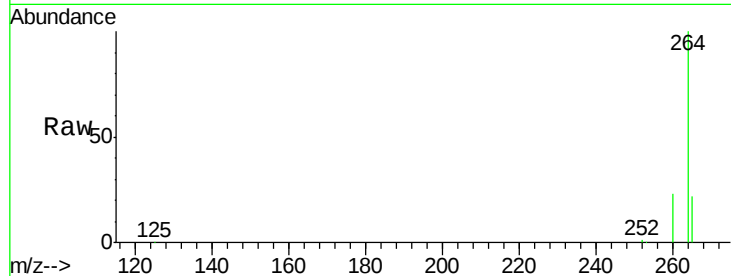




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.35 min Scan# 4139
 Delta R.T. 0.00 min
 Lab File: BE089624.D
 Acq: 18 Feb 2015 18:55

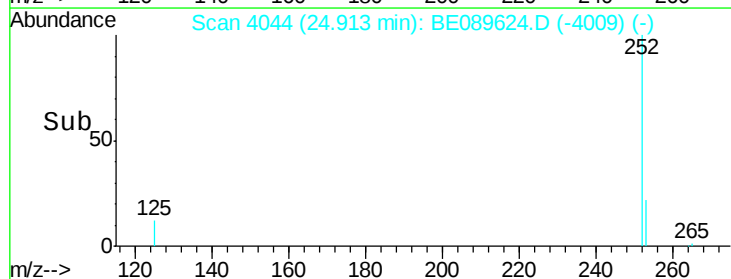
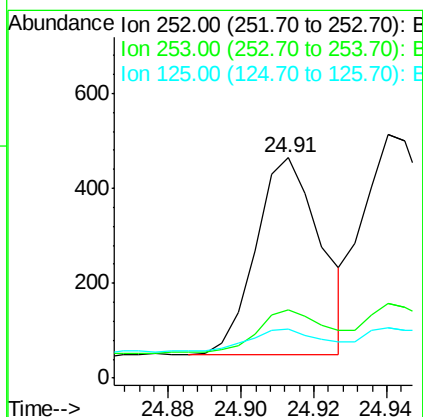
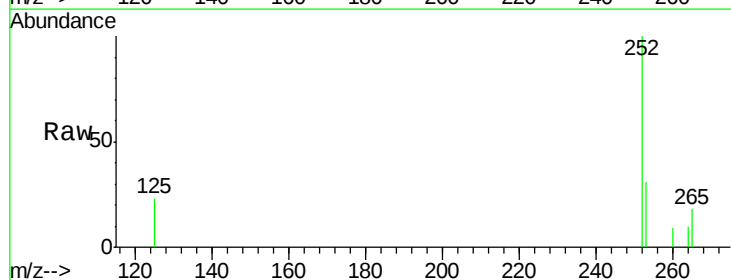
Instrument :
 BNA_E
 ClientSampleId :
 MDL-04-W

Tgt Ion: 264 Resp: 101594
 Ion Ratio Lower Upper
 264 100
 260 23.2 19.0 28.6
 265 21.9 17.4 26.0



#26
 Benzo(b)fluoranthene
 Concen: 0.29 ng
 RT: 24.91 min Scan# 4044
 Delta R.T. 0.00 min
 Lab File: BE089624.D
 Acq: 18 Feb 2015 18:55

Tgt Ion: 252 Resp: 512
 Ion Ratio Lower Upper
 252 100
 253 31.0 17.6 26.4#
 125 22.6 8.8 13.2#





#27

Benzo(k)fluoranthene

Concen: 0.03 ng

RT: 24.94 min Scan# 4050

Delta R.T. -0.00 min

Lab File: BE089624.D

Acq: 18 Feb 2015 18:55

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

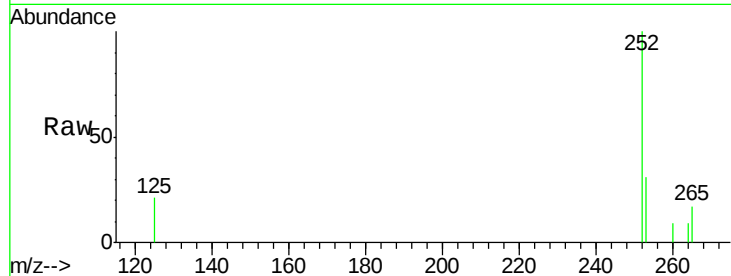
Tgt Ion:252 Resp: 931

Ion Ratio Lower Upper

252 100

253 30.8 17.7 26.5#

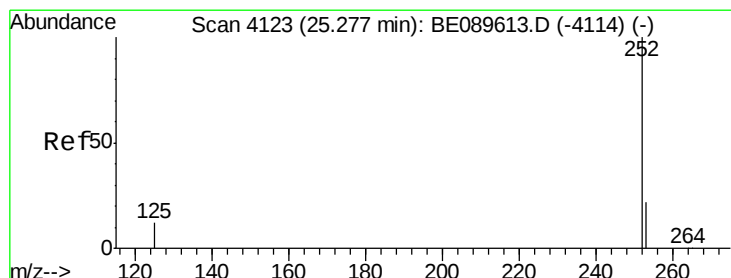
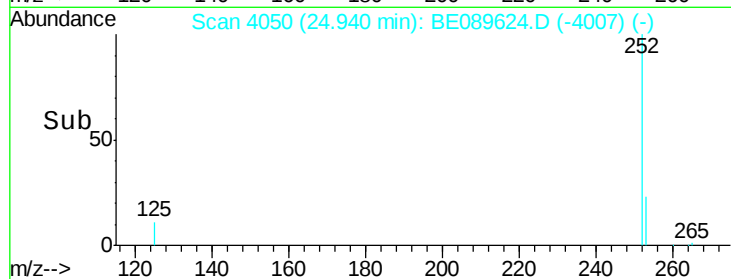
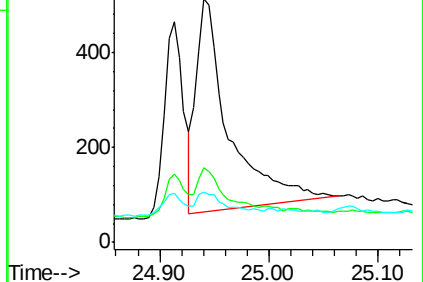
125 20.9 8.8 13.2#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#28

Benzo(a)pyrene

Concen: 0.26 ng

RT: 25.27 min Scan# 4123

Delta R.T. -0.00 min

Lab File: BE089624.D

Acq: 18 Feb 2015 18:55

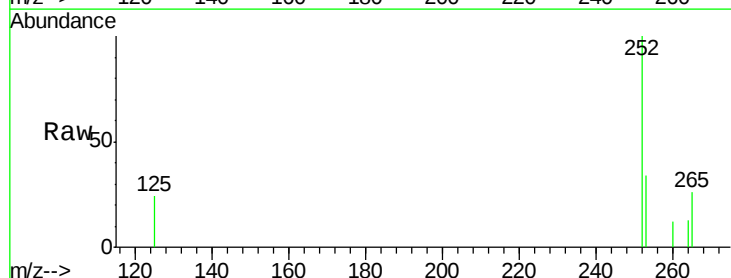
Tgt Ion:252 Resp: 547

Ion Ratio Lower Upper

252 100

253 34.0 18.1 27.1#

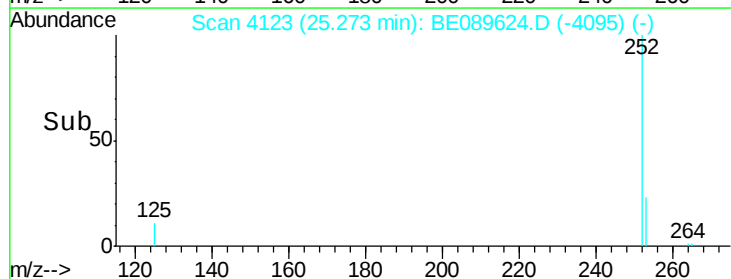
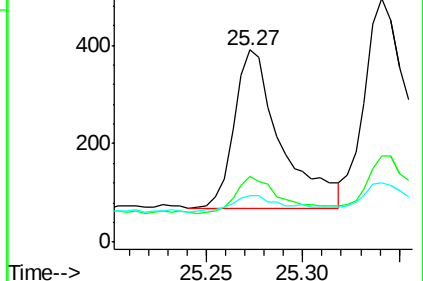
125 24.3 9.6 14.4#

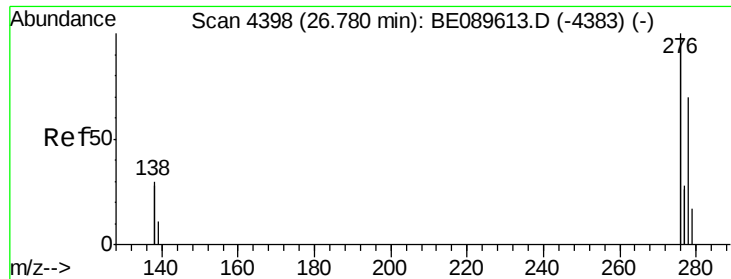


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.25 ng

RT: 26.77 min Scan# 4398

Delta R.T. -0.01 min

Lab File: BE089624.D

Acq: 18 Feb 2015 18:55

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

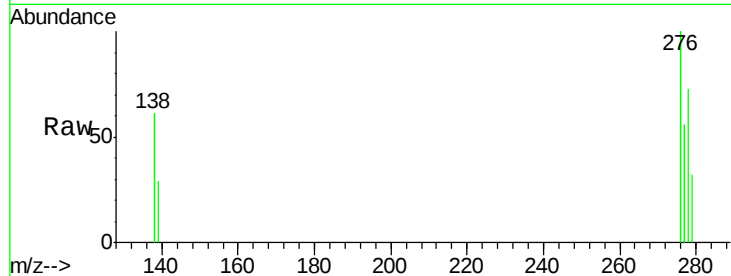
Tgt Ion:278 Resp: 382

Ion Ratio Lower Upper

278 100

139 39.2 13.7 20.5#

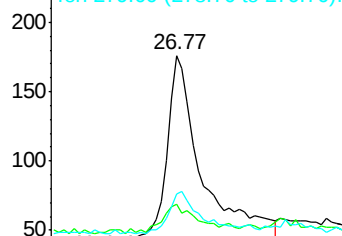
279 43.2 19.7 29.5#



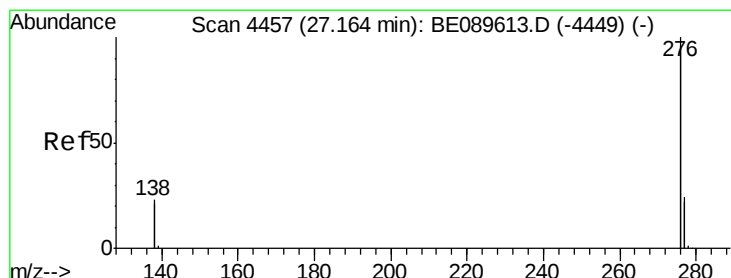
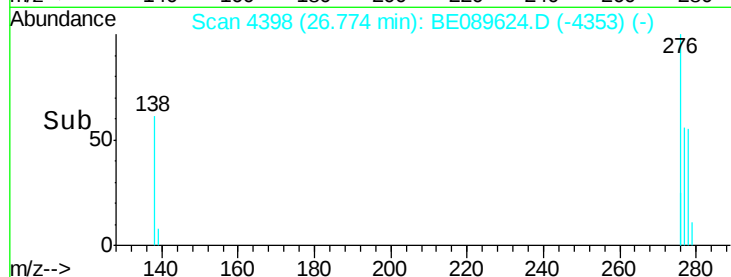
Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



Time-->



#30

Benzo(g,h,i)perylene

Concen: 0.16 ng

RT: 27.16 min Scan# 4457

Delta R.T. -0.01 min

Lab File: BE089624.D

Acq: 18 Feb 2015 18:55

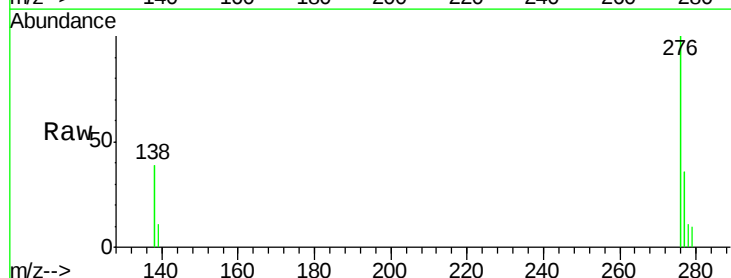
Tgt Ion:276 Resp: 2929

Ion Ratio Lower Upper

276 100

277 36.4 19.1 28.7#

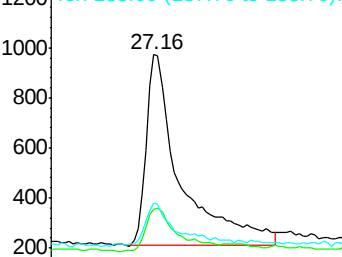
138 38.9 18.7 28.1#



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



Time-->

