

Data Path : Z:\HPCHEM1\BNA_E\Data\BE021815\
 Data File : BE089631.D
 Acq On : 19 Feb 2015 00:14
 Operator : TP/IZ
 Sample : MDL-03-S
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-03-S

Quant Time: Feb 19 05:12:18 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

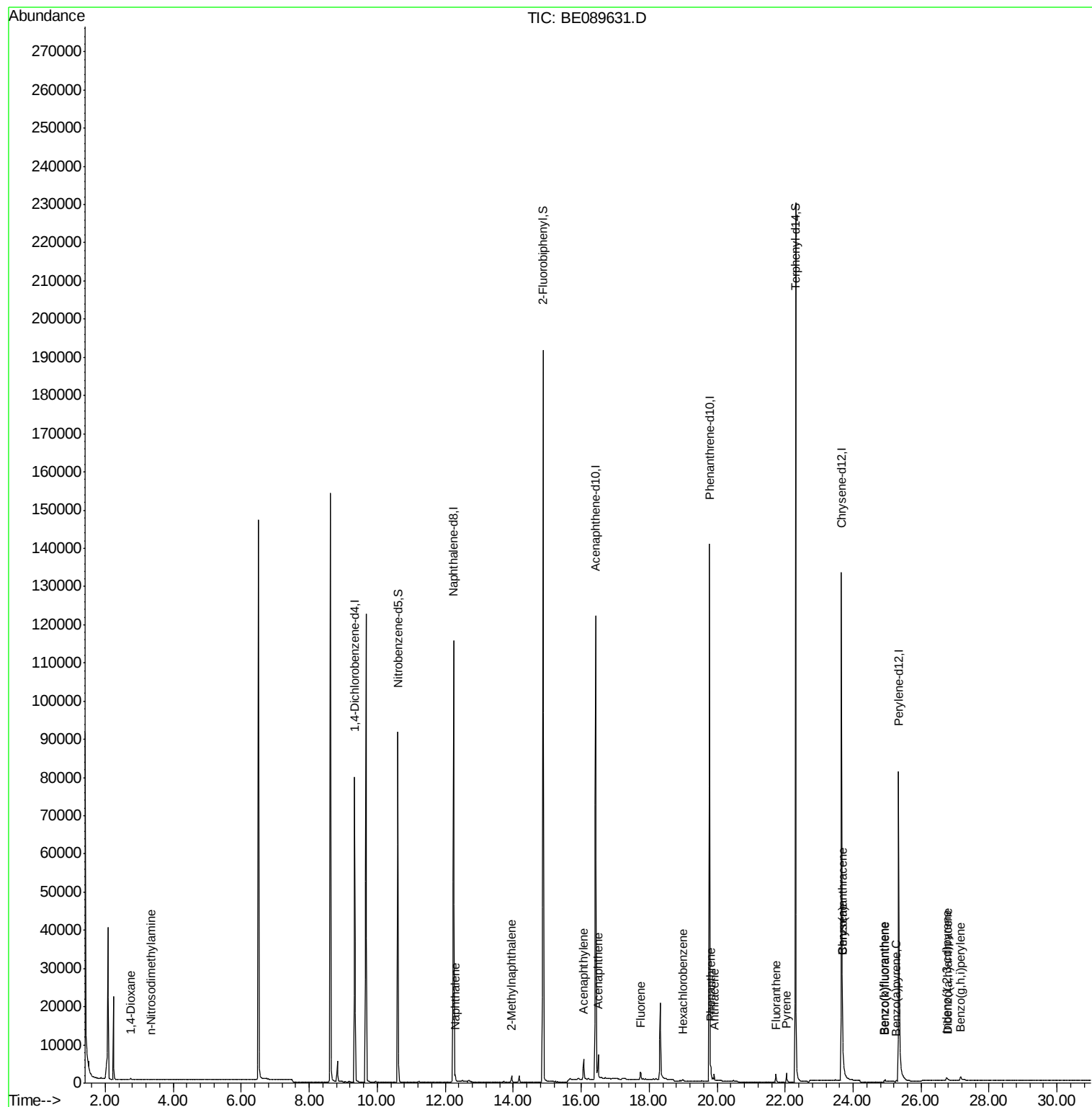
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	37185	5.00	ng	0.00
4) Naphthalene-d8	12.25	136	147084	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	72856	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	142347	5.00	ng	0.00
19) Chrysene-d12	23.66	240	125017	5.00	ng	0.00
25) Perylene-d12	25.34	264	99453	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	65737	10.28	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	179270	9.19	ng	0.00
21) Terphenyl-d14	22.31	244	213222	11.86	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.73	88	282	0.06	ng	# 75
3) n-Nitrosodimethylamine	3.35	42	3	0.00	ng	# 1
6) Naphthalene	12.30	128	2376	0.07	ng	# 93
7) 2-Methylnaphthalene	13.95	142	1293	0.06	ng	98
10) Acenaphthylene	16.07	152	7275	0.06	ng	99
11) Acenaphthene	16.50	154	1362	0.07	ng	# 86
12) Fluorene	17.74	166	1534	0.07	ng	96
14) Hexachlorobenzene	19.00	284	454	0.07	ng	92
15) Pentachlorophenol	19.45	266	30	Below Cal		# 69
16) Phenanthrene	19.82	178	2527	0.07	ng	99
17) Anthracene	19.91	178	1766	0.06	ng	99
18) Fluoranthene	21.73	202	1878	0.06	ng	99
20) Pyrene	22.04	202	2005	0.07	ng	98
22) Benzo(a)anthracene	23.69	228	10757	0.10	ng	92
23) Chrysene	23.69	228	10757	0.09	ng	95
24) Indeno(1,2,3-cd)pyrene	26.75	276	1782	0.19	ng	94
26) Benzo(b)fluoranthene	24.91	252	475	0.29	ng	# 75
27) Benzo(k)fluoranthene	24.94	252	795	0.03	ng	# 79
28) Benzo(a)pyrene	25.27	252	477	0.26	ng	# 71
29) Dibenzo(a,h)anthracene	26.78	278	331	0.25	ng	# 45
30) Benzo(g,h,i)perylene	27.17	276	2788	0.16	ng	# 65

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

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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: BE089631.D

Acq: 19 Feb 2015 00:14

Instrument :

BNA_E

ClientSampleId :

MDL-03-S

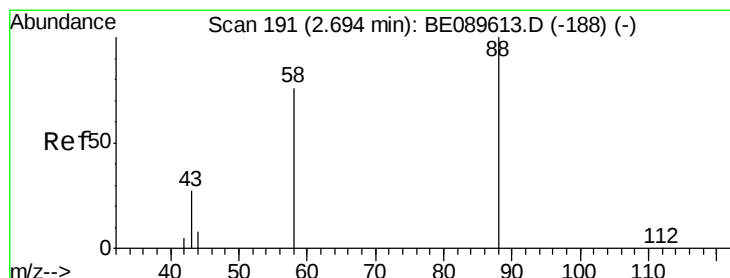
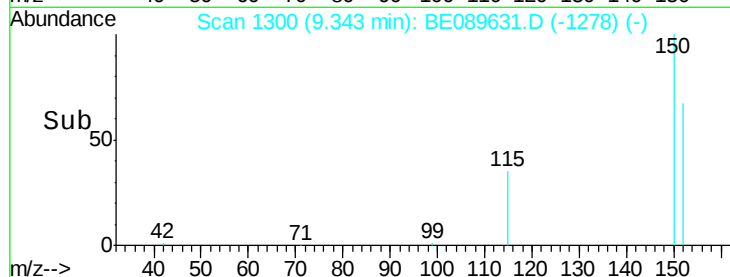
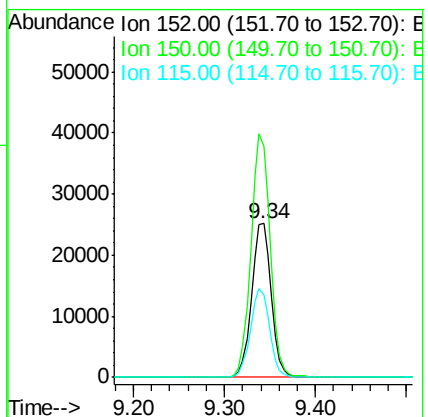
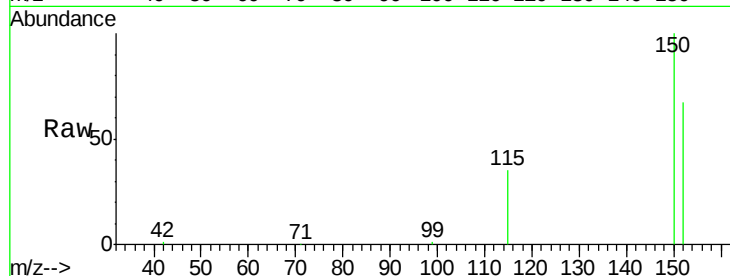
Tgt Ion: 152 Resp: 37185

Ion Ratio Lower Upper

152 100

150 150.3 122.4 183.6

115 53.3 44.2 66.2



#2

1,4-Dioxane

Concen: 0.06 ng

RT: 2.73 min Scan# 197

Delta R.T. 0.04 min

Lab File: BE089631.D

Acq: 19 Feb 2015 00:14

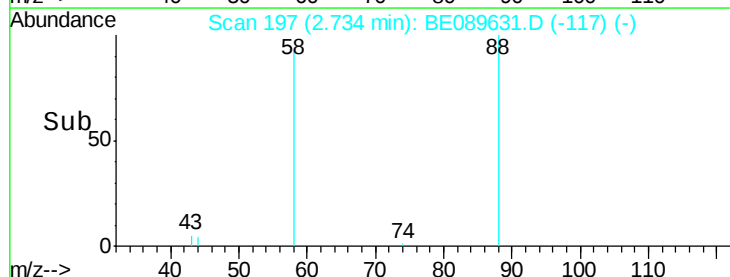
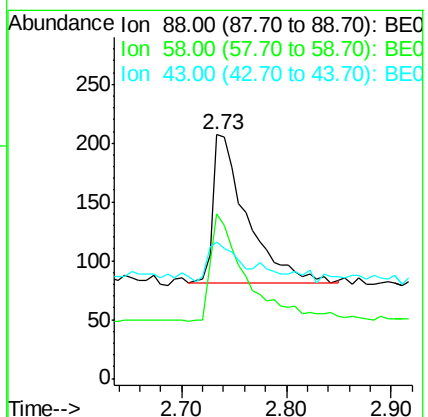
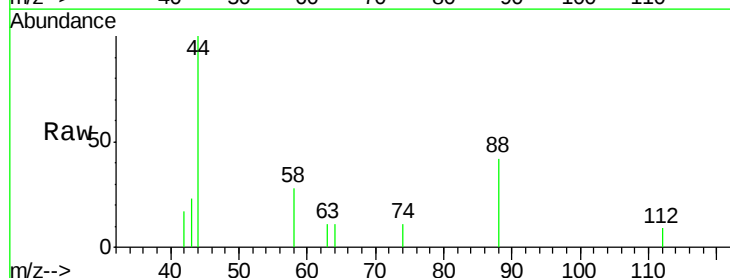
Tgt Ion: 88 Resp: 282

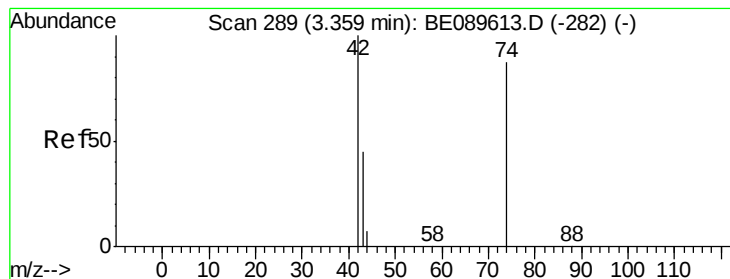
Ion Ratio Lower Upper

88 100

58 80.5 54.6 81.8

43 0.0 20.6 30.8#



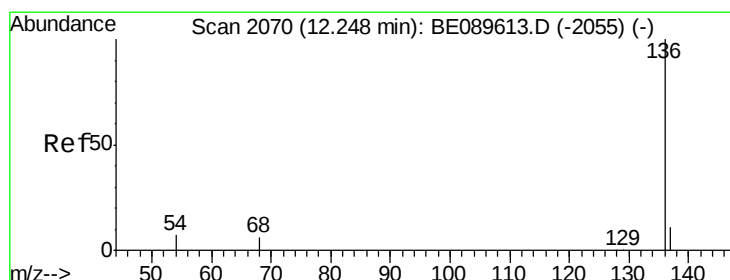
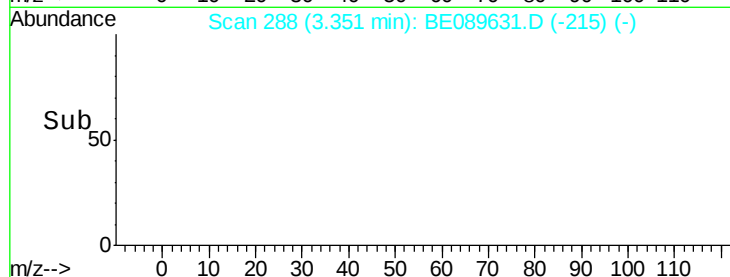
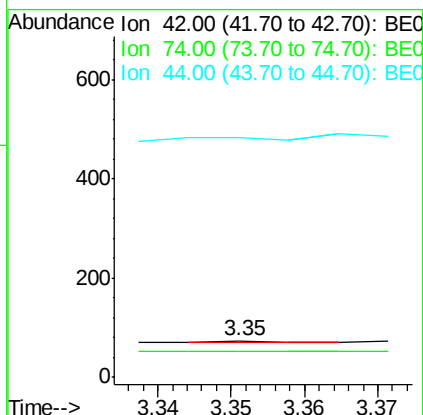
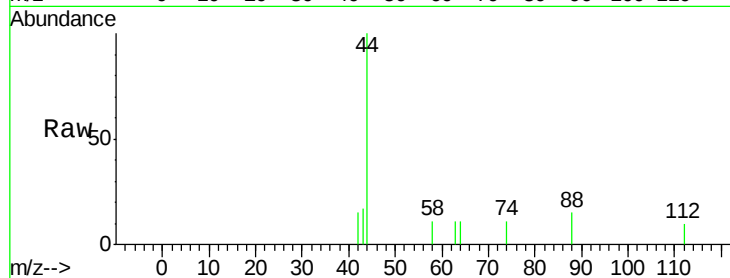


#3

n-Nitrosodimethylamine
 Concen: 0.00 ng
 RT: 3.35 min Scan# 288
 Delta R.T. -0.01 min
 Lab File: BE089631.D
 Acq: 19 Feb 2015 00:14

Instrument :
 BNA_E
 ClientSampleId :
 MDL-03-S

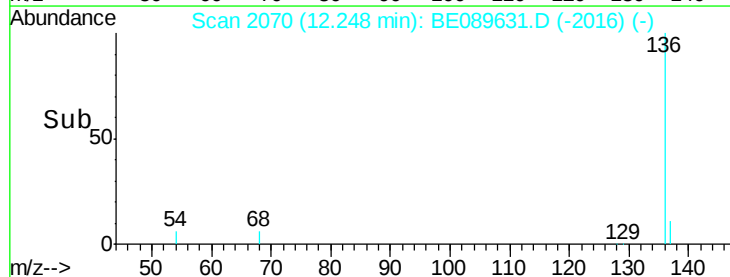
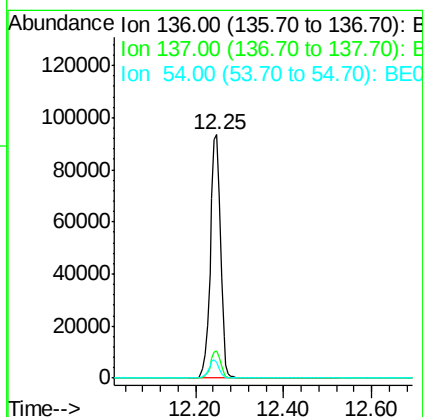
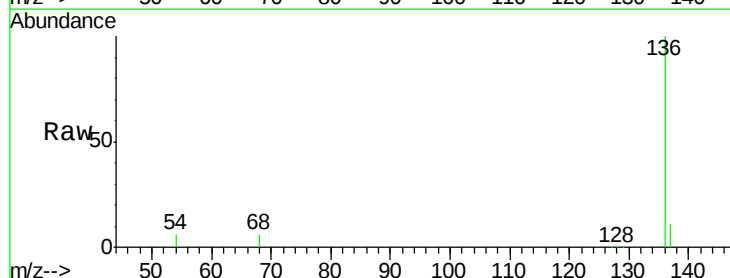
Tgt Ion: 42 Resp: 3
 Ion Ratio Lower Upper
 42 100
 74 0.0 121.4 182.0#
 44 866.7 4.5 6.7#

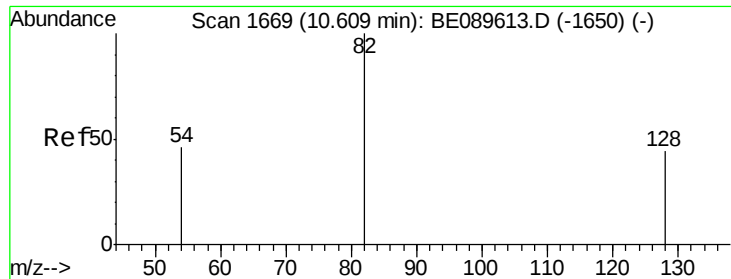


#4

Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.25 min Scan# 2070
 Delta R.T. -0.00 min
 Lab File: BE089631.D
 Acq: 19 Feb 2015 00:14

Tgt Ion: 136 Resp: 147084
 Ion Ratio Lower Upper
 136 100
 137 11.1 8.9 13.3
 54 6.4 5.3 7.9





#5

Nitrobenzene-d5

Concen: 10.28 ng

RT: 10.61 min Scan# 1668

Delta R.T. -0.00 min

Lab File: BE089631.D

Acq: 19 Feb 2015 00:14

Instrument :

BNA_E

ClientSampleId :

MDL-03-S

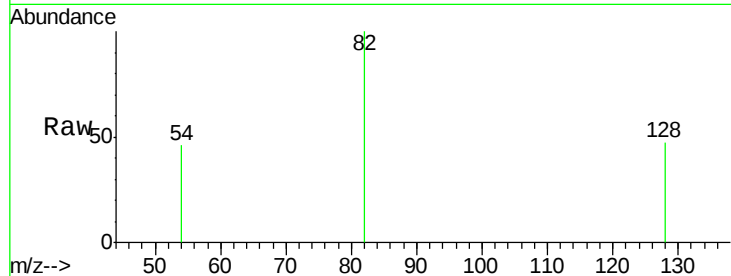
Tgt Ion: 82 Resp: 65737

Ion Ratio Lower Upper

82 100

128 47.3 35.5 53.3

54 46.0 37.5 56.3

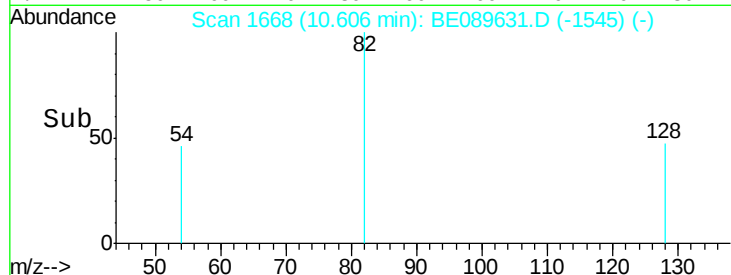


Abundance Ion 82.00 (81.70 to 82.70): BE089613.D (-1650) (-)

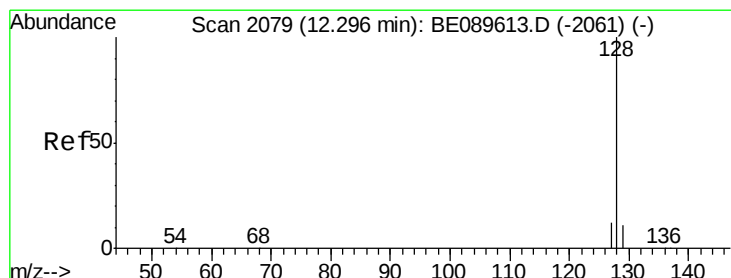
Ion 128.00 (127.70 to 128.70): BE089613.D (-1650) (-)

Ion 54.00 (53.70 to 54.70): BE089613.D (-1650) (-)

Time-->



Time-->



#6

Naphthalene

Concen: 0.07 ng

RT: 12.30 min Scan# 2079

Delta R.T. -0.00 min

Lab File: BE089631.D

Acq: 19 Feb 2015 00:14

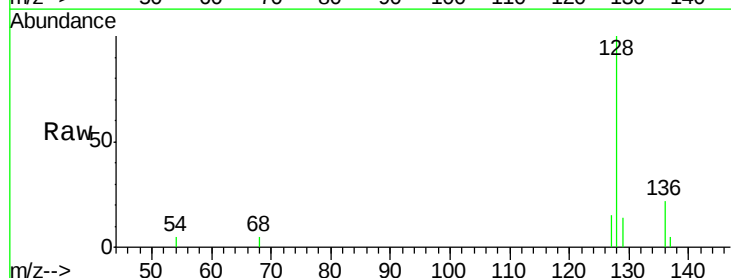
Tgt Ion: 128 Resp: 2376

Ion Ratio Lower Upper

128 100

129 13.7 8.9 13.3#

127 14.8 9.8 14.8#

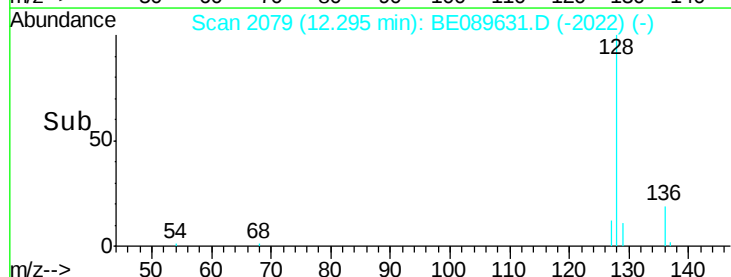


Abundance Ion 128.00 (127.70 to 128.70): BE089613.D (-2061) (-)

Ion 129.00 (128.70 to 129.70): BE089613.D (-2061) (-)

Ion 127.00 (126.70 to 127.70): BE089613.D (-2061) (-)

Time-->



Time-->



#7

2-Methylnaphthalene

Concen: 0.06 ng

RT: 13.95 min Scan# 2418

Delta R.T. 0.00 min

Lab File: BE089631.D

Acq: 19 Feb 2015 00:14

Instrument :

BNA_E

ClientSampleId :

MDL-03-S

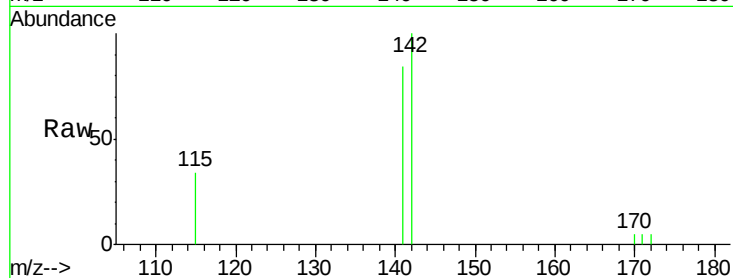
Tgt Ion:142 Resp: 1293

Ion Ratio Lower Upper

142 100

141 84.4 68.3 102.5

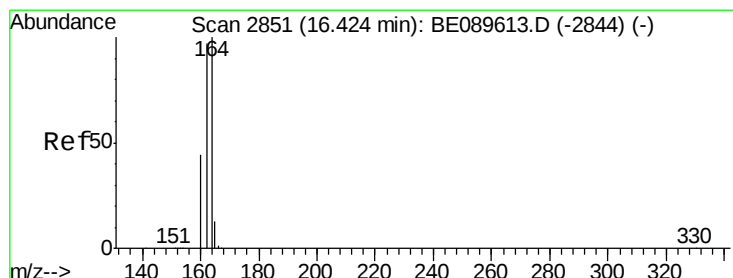
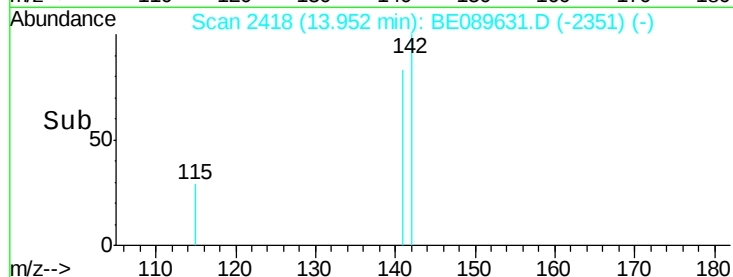
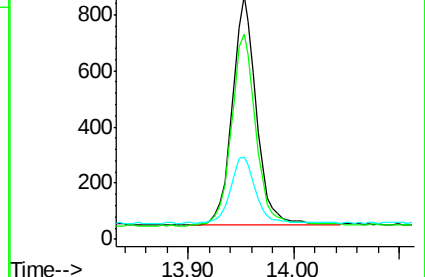
115 33.9 25.1 37.7



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



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.42 min Scan# 2852

Delta R.T. 0.00 min

Lab File: BE089631.D

Acq: 19 Feb 2015 00:14

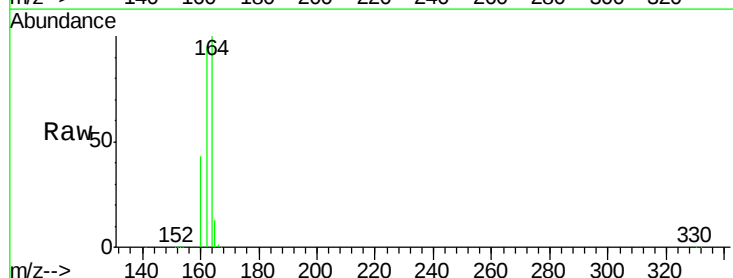
Tgt Ion:164 Resp: 72856

Ion Ratio Lower Upper

164 100

162 95.3 77.5 116.3

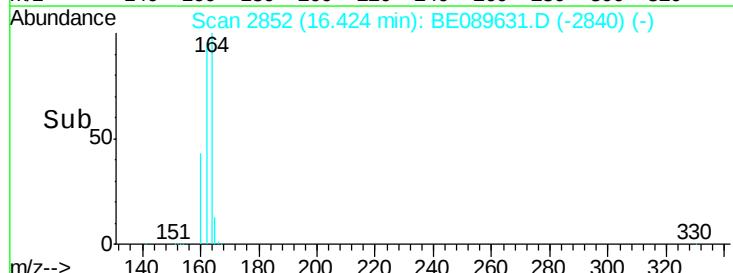
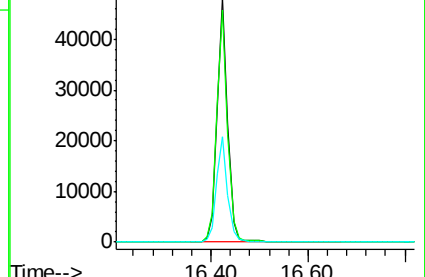
160 43.4 35.5 53.3



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





#9

2-Fluorobiphenyl

Concen: 9.19 ng

RT: 14.88 min Scan# 2622

Delta R.T. -0.00 min

Lab File: BE089631.D

Acq: 19 Feb 2015 00:14

Instrument :

BNA_E

ClientSampleId :

MDL-03-S

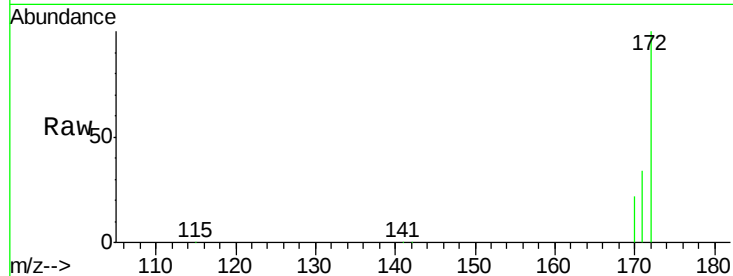
Tgt Ion:172 Resp: 179270

Ion Ratio Lower Upper

172 100

171 33.7 26.9 40.3

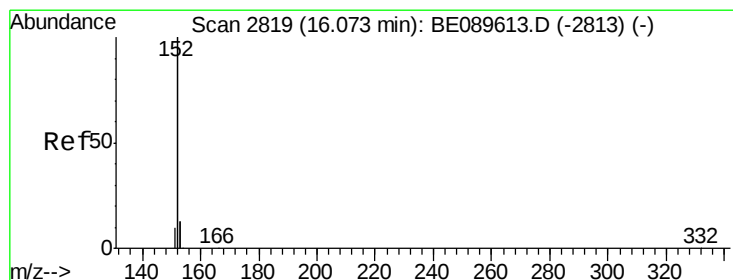
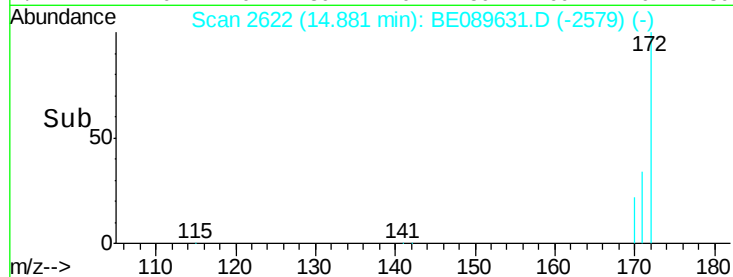
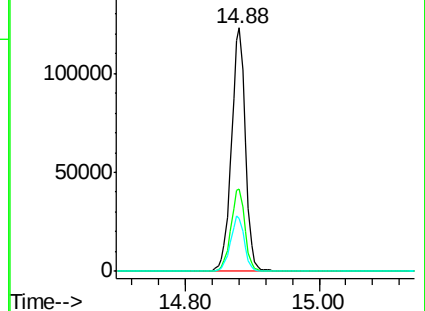
170 21.8 17.4 26.0



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: BE089631.D

Acq: 19 Feb 2015 00:14

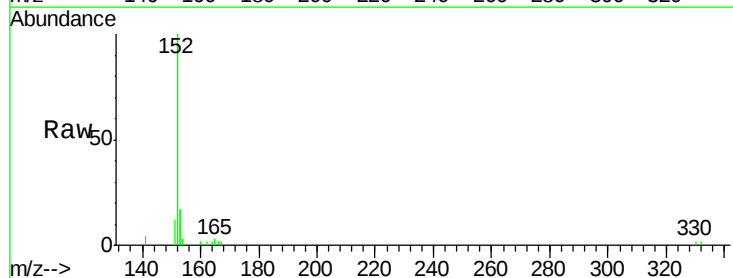
Tgt Ion:152 Resp: 7275

Ion Ratio Lower Upper

152 100

151 4.8 3.9 5.9

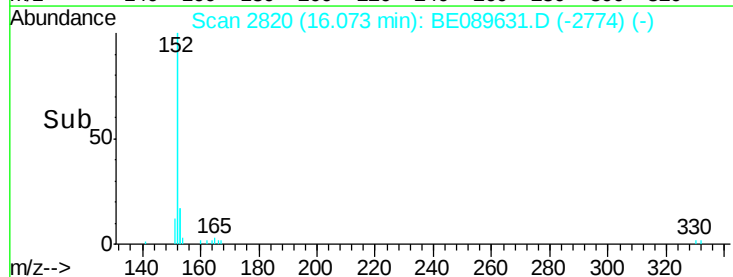
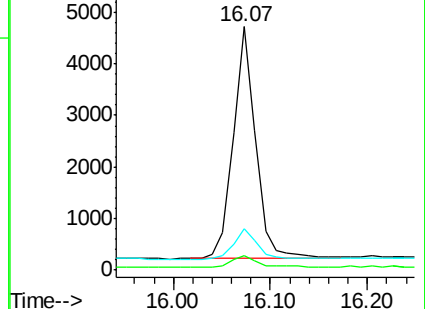
153 13.7 10.5 15.7

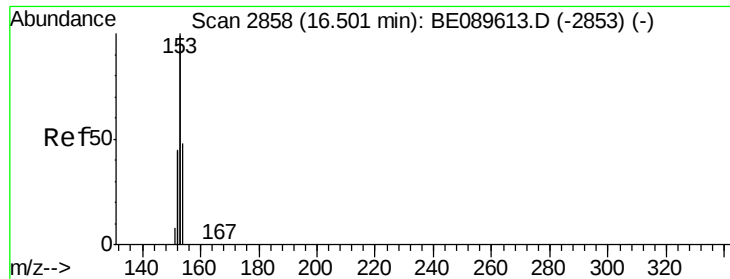


Abundance Ion 152.00 (151.70 to 152.70): E

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: BE089631.D

Acq: 19 Feb 2015 00:14

Instrument :

BNA_E

ClientSampleId :

MDL-03-S

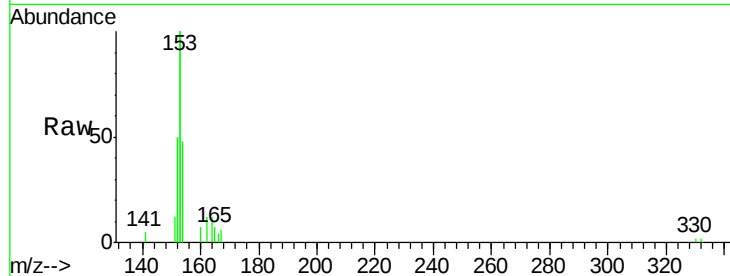
Tgt Ion:154 Resp: 1362

Ion Ratio Lower Upper

154 100

153 454.1 348.9 523.3

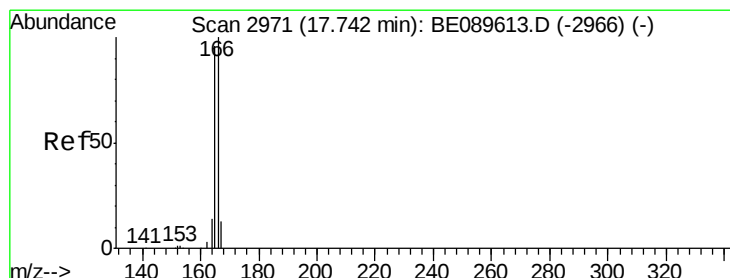
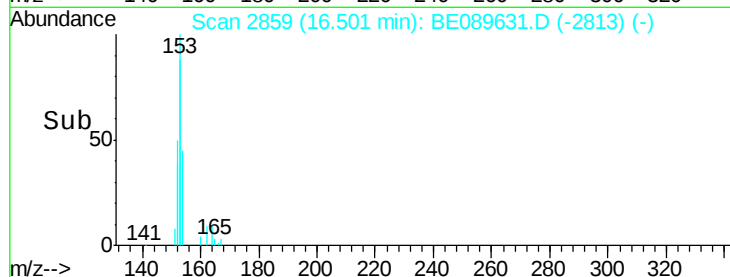
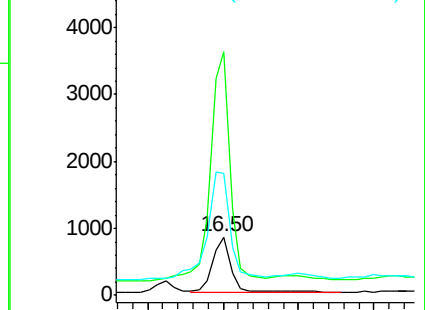
152 253.2 166.6 249.8#



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: 17.74 min Scan# 2972

Delta R.T. 0.00 min

Lab File: BE089631.D

Acq: 19 Feb 2015 00:14

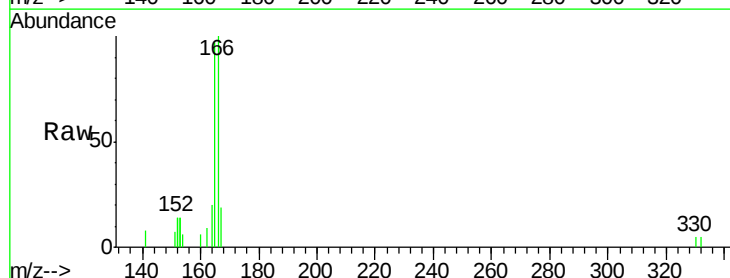
Tgt Ion:166 Resp: 1534

Ion Ratio Lower Upper

166 100

165 90.1 74.7 112.1

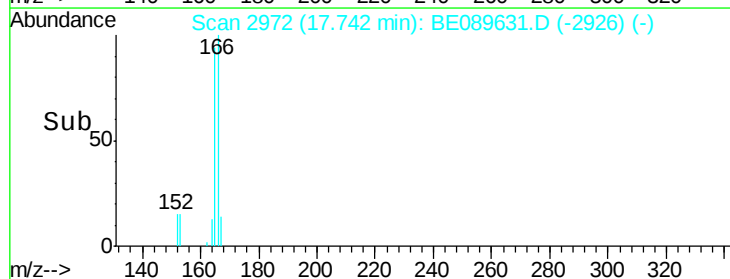
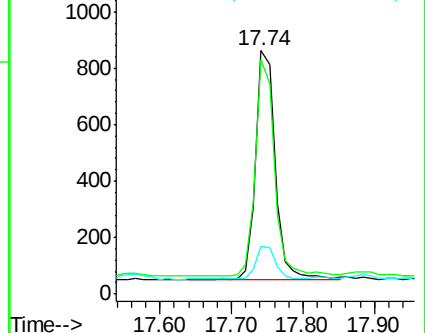
167 14.8 10.5 15.7

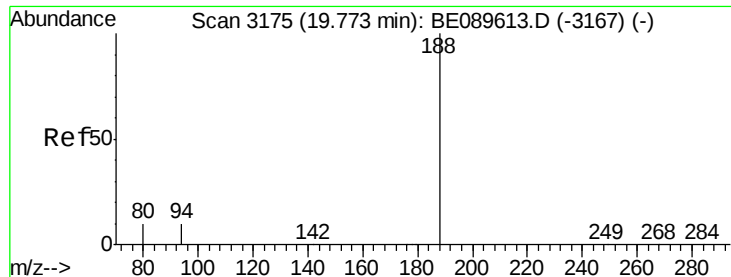


Abundance Ion 166.00 (165.70 to 166.70): E

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: BE089631.D

Acq: 19 Feb 2015 00:14

Instrument :

BNA_E

ClientSampleId :

MDL-03-S

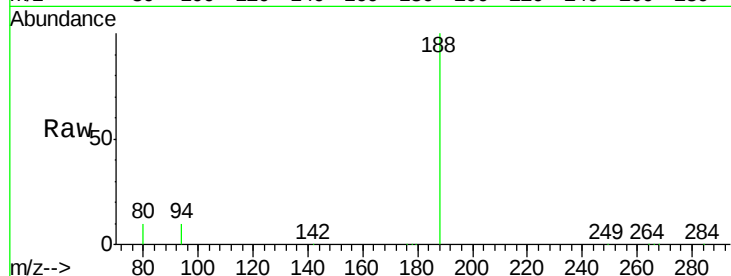
Tgt Ion:188 Resp: 142347

Ion Ratio Lower Upper

188 100

94 10.3 8.2 12.4

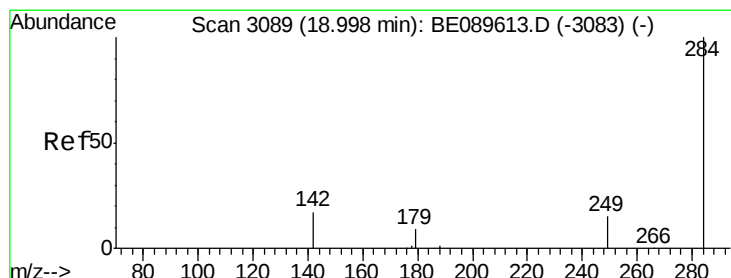
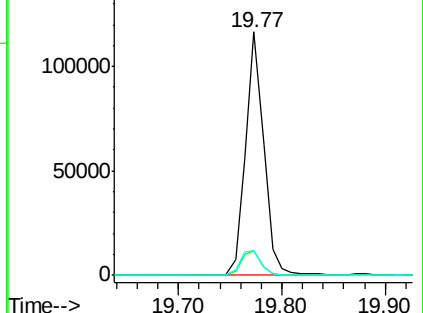
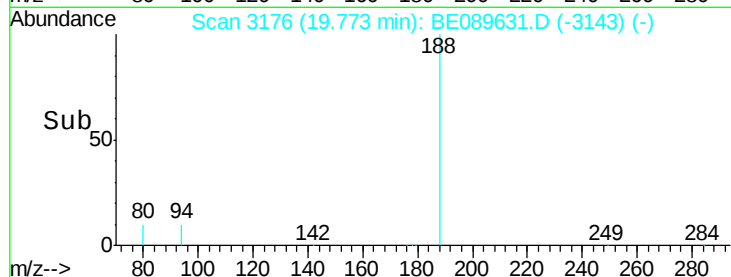
80 10.2 8.1 12.1



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: BE089631.D

Acq: 19 Feb 2015 00:14

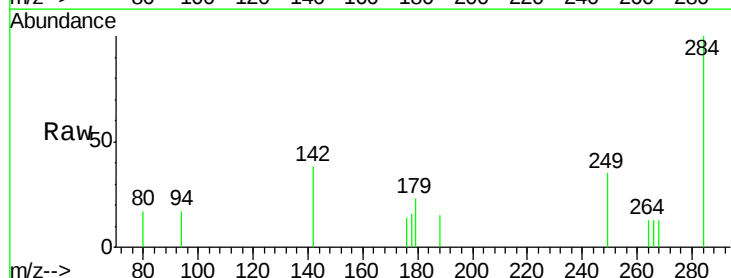
Tgt Ion:284 Resp: 454

Ion Ratio Lower Upper

284 100

142 48.0 32.3 48.5

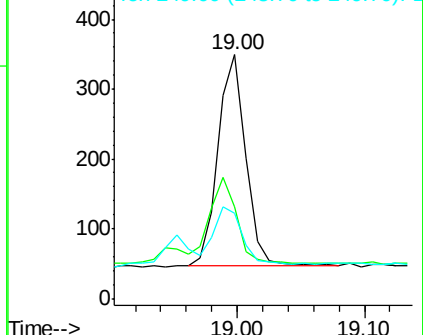
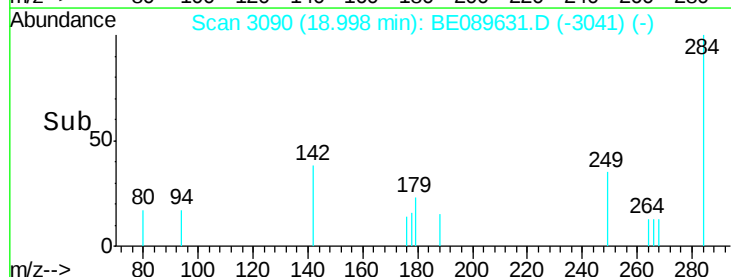
249 28.6 22.3 33.5



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

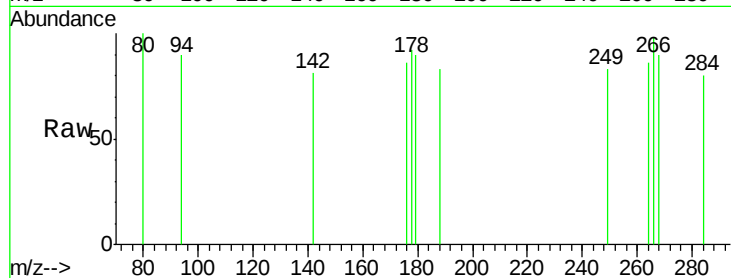




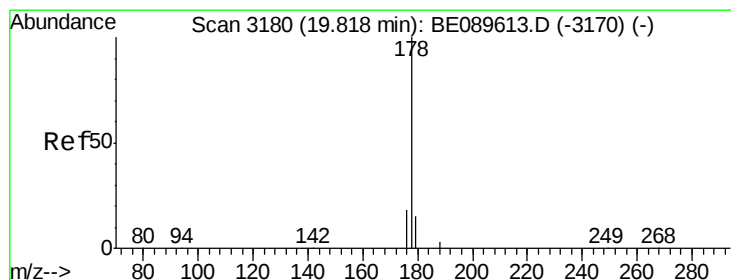
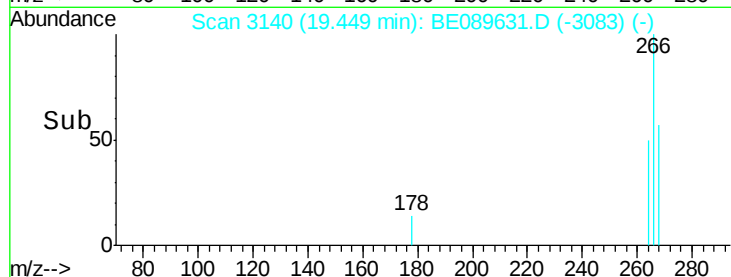
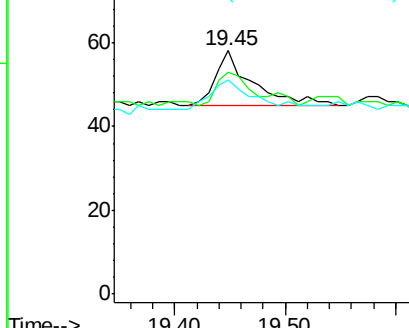
#15
 Pentachlorophenol
 Concen: Below Cal
 RT: 19.45 min Scan# 3140
 Delta R.T. 0.01 min
 Lab File: BE089631.D
 Acq: 19 Feb 2015 00:14

Instrument :
 BNA_E
 ClientSampleId :
 MDL-03-S

Tgt Ion: 266 Resp: 30
 Ion Ratio Lower Upper
 266 100
 268 91.4 52.6 79.0#
 264 87.9 51.8 77.8#

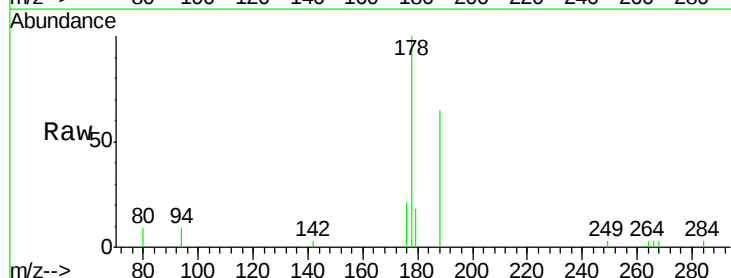


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

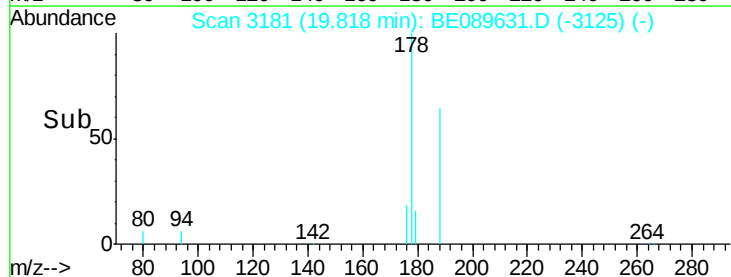
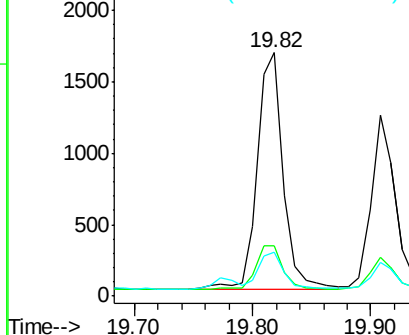


#16
 Phenanthrene
 Concen: 0.07 ng
 RT: 19.82 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: BE089631.D
 Acq: 19 Feb 2015 00:14

Tgt Ion: 178 Resp: 2527
 Ion Ratio Lower Upper
 178 100
 176 19.1 15.1 22.7
 179 14.9 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

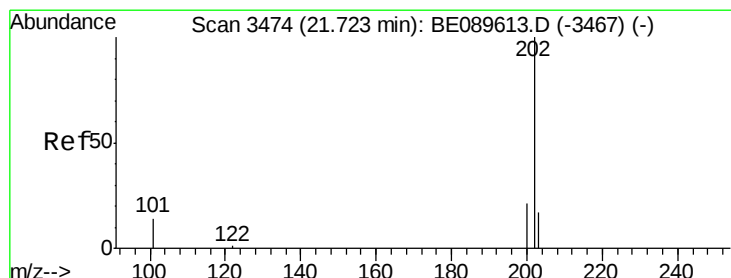
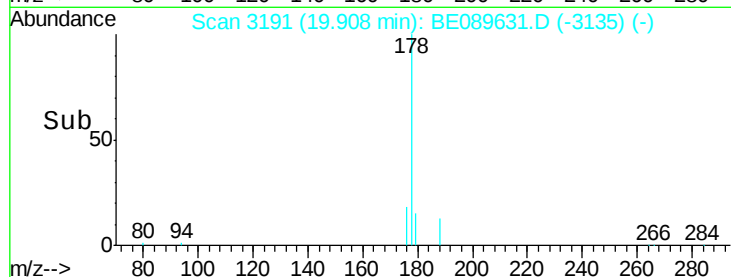
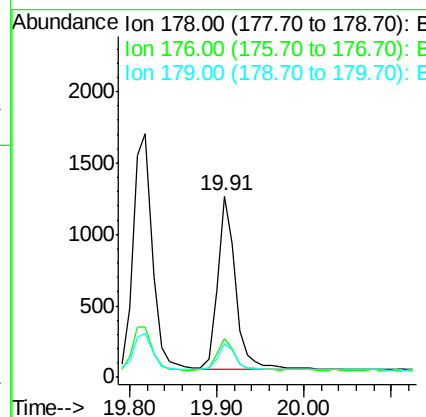
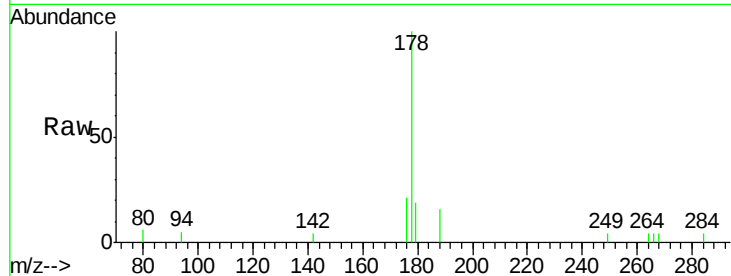




#17
 Anthracene
 Concen: 0.06 ng
 RT: 19.91 min Scan# 3191
 Delta R.T. 0.00 min
 Lab File: BE089631.D
 Acq: 19 Feb 2015 00:14

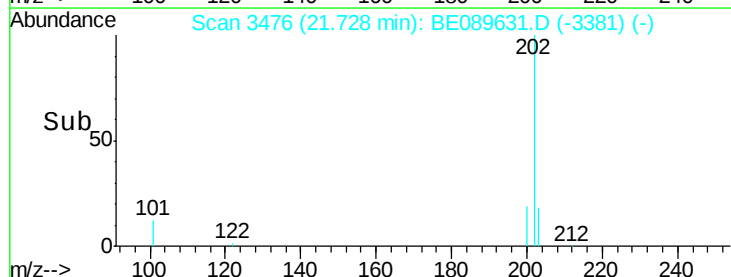
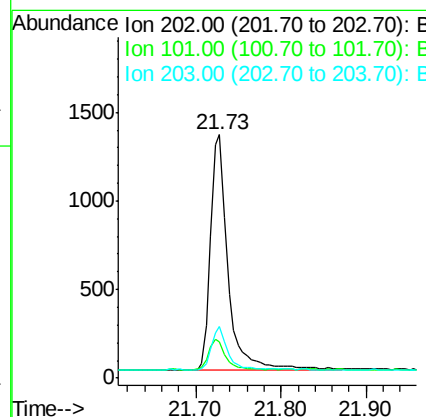
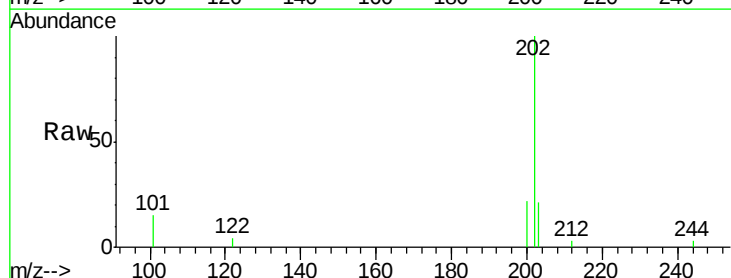
Instrument :
 BNA_E
 ClientSampleId :
 MDL-03-S

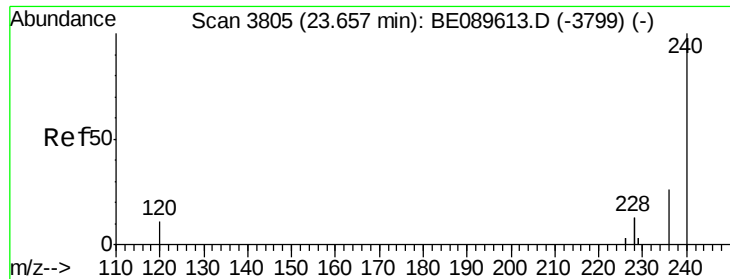
Tgt Ion:178 Resp: 1766
 Ion Ratio Lower Upper
 178 100
 176 17.6 14.6 22.0
 179 14.8 12.3 18.5



#18
 Fluoranthene
 Concen: 0.06 ng
 RT: 21.73 min Scan# 3476
 Delta R.T. 0.01 min
 Lab File: BE089631.D
 Acq: 19 Feb 2015 00:14

Tgt Ion:202 Resp: 1878
 Ion Ratio Lower Upper
 202 100
 101 12.6 10.4 15.6
 203 17.7 13.9 20.9





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3806

Delta R.T. 0.00 min

Lab File: BE089631.D

Acq: 19 Feb 2015 00:14

Instrument :

BNA_E

ClientSampleId :

MDL-03-S

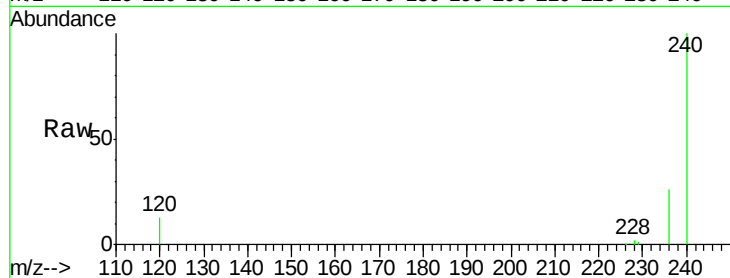
Tgt Ion:240 Resp: 125017

Ion Ratio Lower Upper

240 100

120 12.9 9.0 13.4

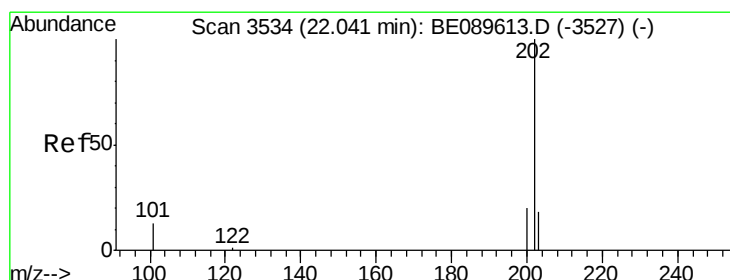
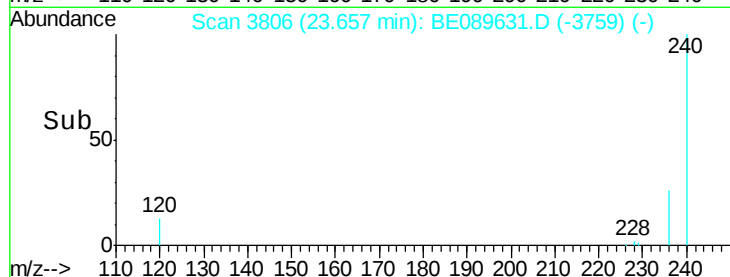
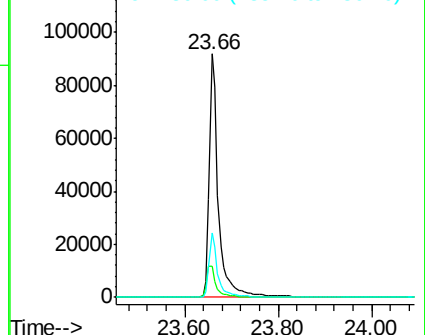
236 26.4 21.0 31.6



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: 0.07 ng

RT: 22.04 min Scan# 3535

Delta R.T. 0.00 min

Lab File: BE089631.D

Acq: 19 Feb 2015 00:14

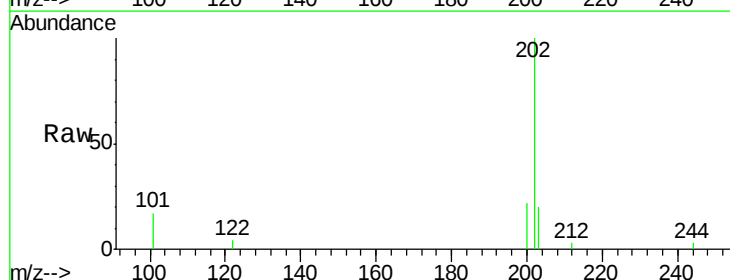
Tgt Ion:202 Resp: 2005

Ion Ratio Lower Upper

202 100

200 19.8 16.3 24.5

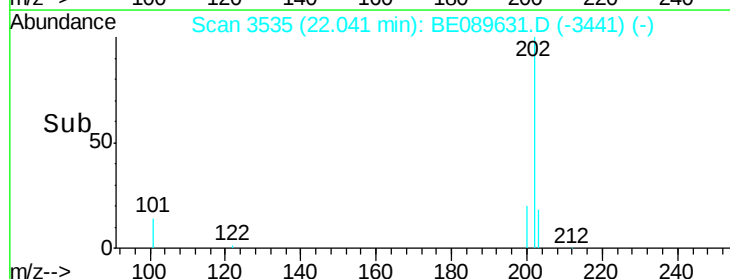
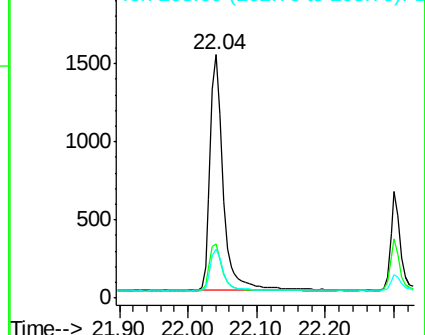
203 18.0 13.8 20.8



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: 11.86 ng

RT: 22.31 min Scan# 3585

Delta R.T. 0.01 min

Lab File: BE089631.D

Acq: 19 Feb 2015 00:14

Instrument :

BNA_E

ClientSampled :

MDL-03-S

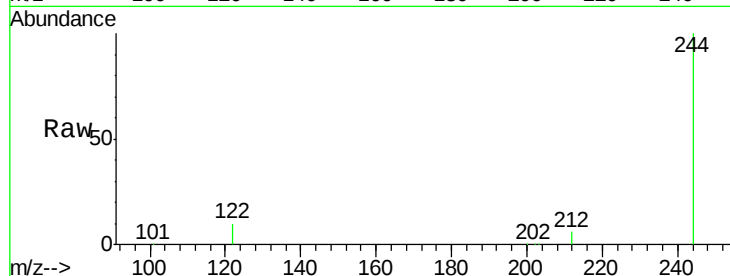
Tgt Ion:244 Resp: 213222

Ion Ratio Lower Upper

244 100

212 6.4 5.8 8.8

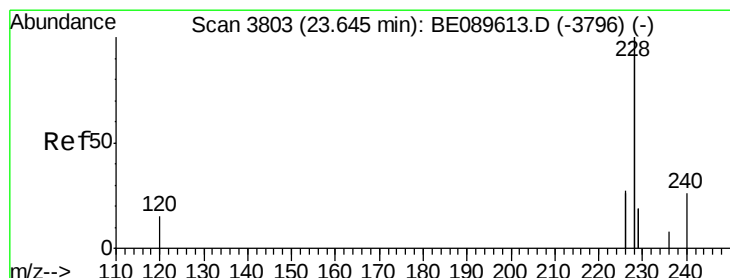
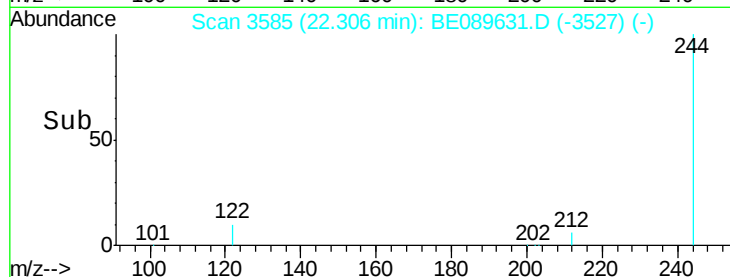
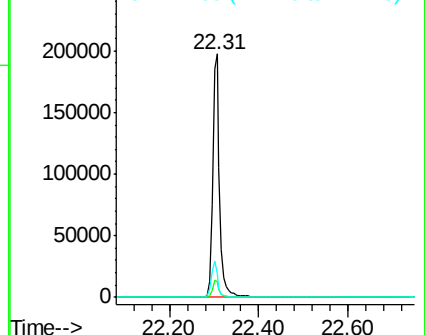
122 9.6 11.8 17.8#



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: BE089631.D

Acq: 19 Feb 2015 00:14

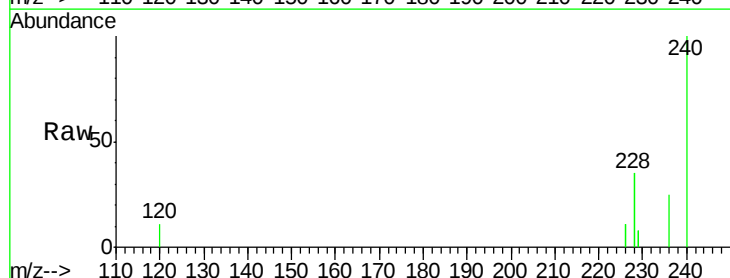
Tgt Ion:228 Resp: 10757

Ion Ratio Lower Upper

228 100

226 30.2 21.2 31.8

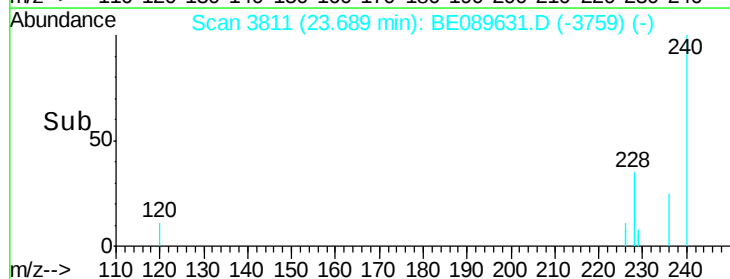
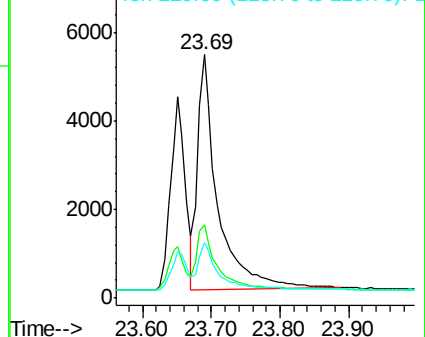
229 22.8 15.2 22.8



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: BE089631.D

Acq: 19 Feb 2015 00:14

Instrument :

BNA_E

ClientSampleId :

MDL-03-S

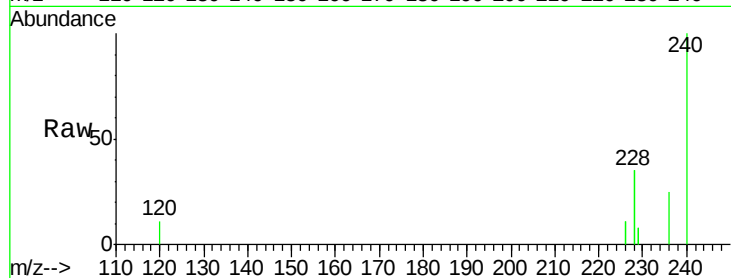
Tgt Ion:228 Resp: 10757

Ion Ratio Lower Upper

228 100

226 30.2 22.2 33.4

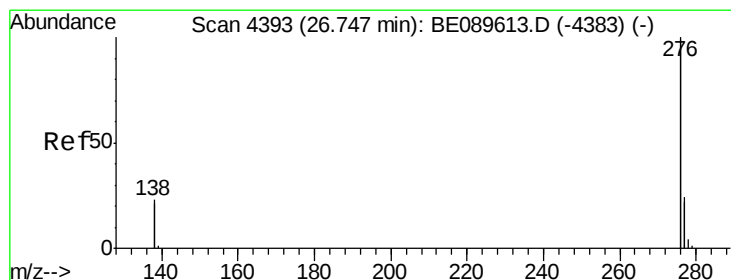
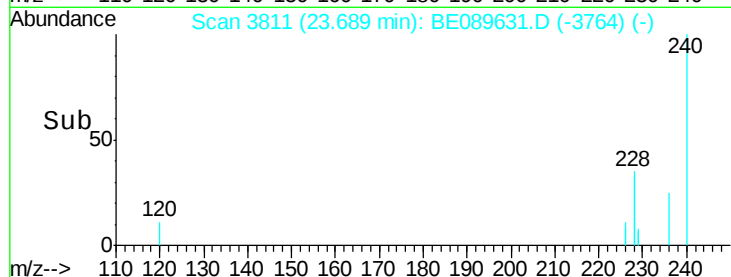
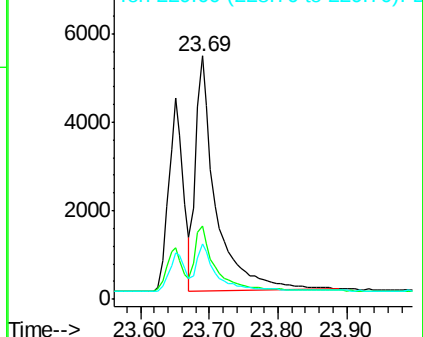
229 22.8 16.0 24.0



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: BE089631.D

Acq: 19 Feb 2015 00:14

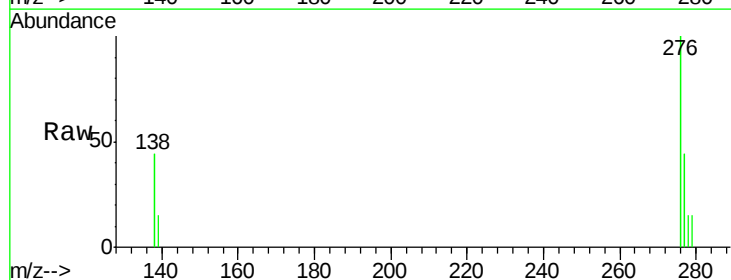
Tgt Ion:276 Resp: 1782

Ion Ratio Lower Upper

276 100

138 21.9 21.4 32.2

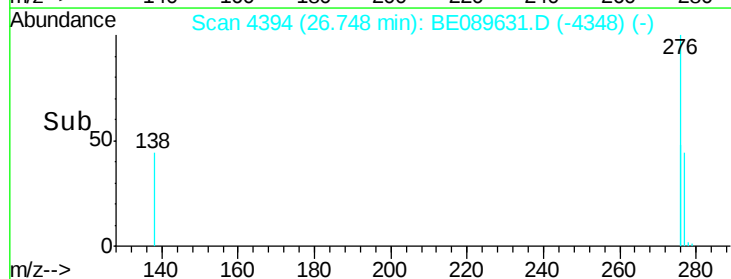
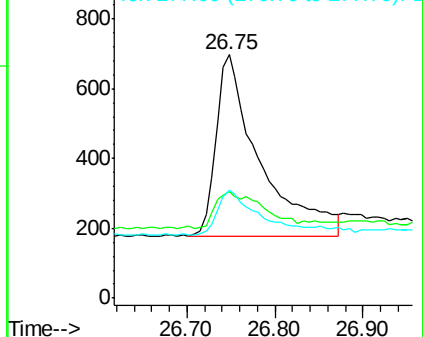
277 23.9 19.9 29.9

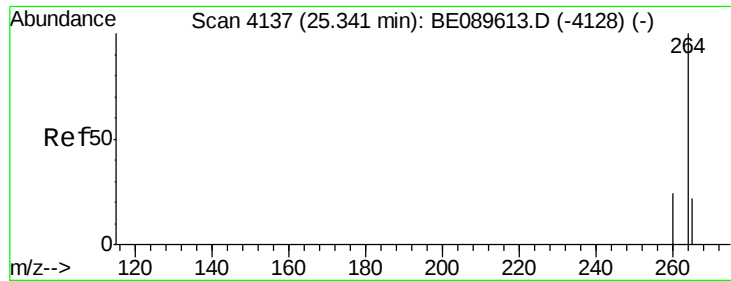


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

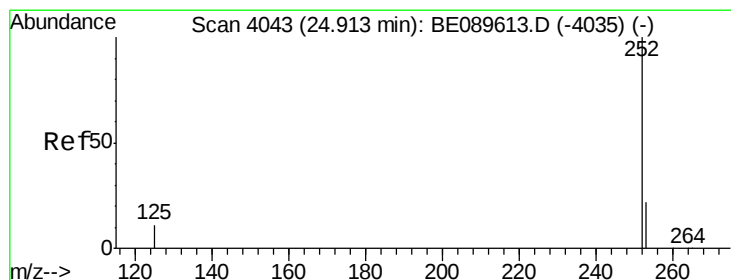
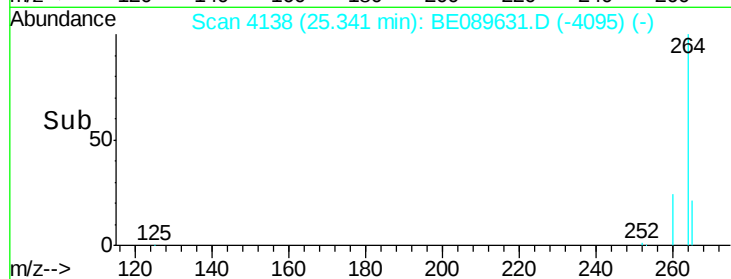
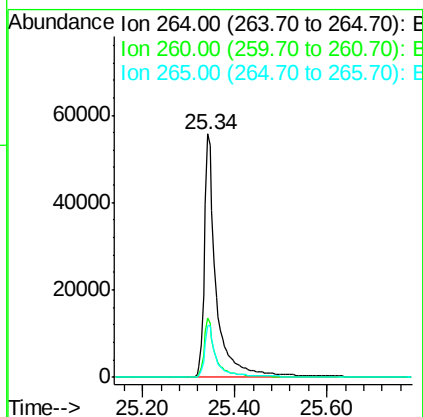
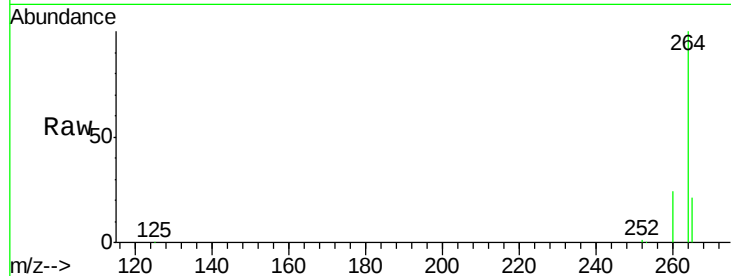




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4138
 Delta R.T. 0.00 min
 Lab File: BE089631.D
 Acq: 19 Feb 2015 00:14

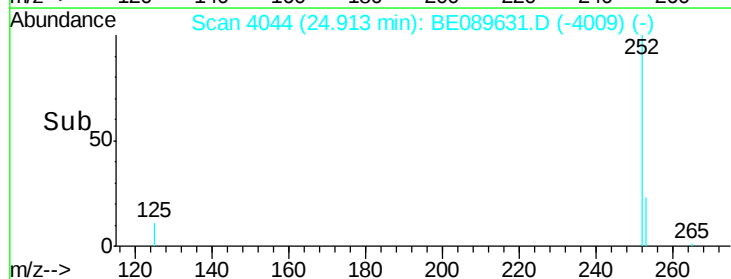
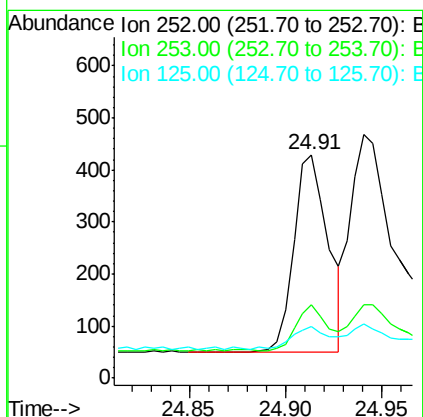
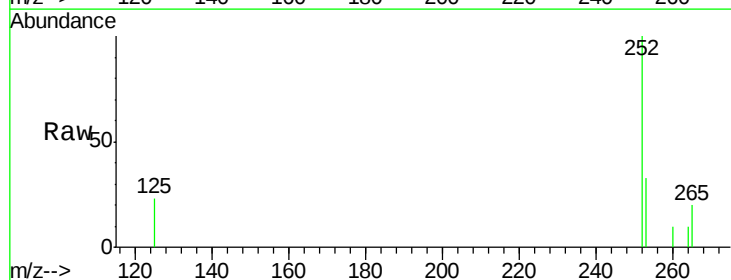
Instrument :
 BNA_E
 ClientSampleId :
 MDL-03-S

Tgt Ion: 264 Resp: 99453
 Ion Ratio Lower Upper
 264 100
 260 24.2 19.0 28.6
 265 21.0 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: BE089631.D
 Acq: 19 Feb 2015 00:14

Tgt Ion: 252 Resp: 475
 Ion Ratio Lower Upper
 252 100
 253 32.6 17.6 26.4#
 125 23.0 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: BE089631.D

Acq: 19 Feb 2015 00:14

Instrument :

BNA_E

ClientSampleId :

MDL-03-S

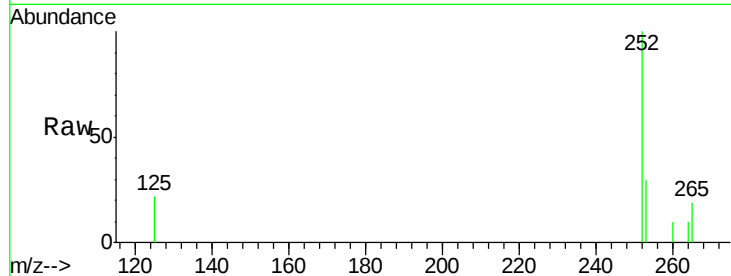
Tgt Ion:252 Resp: 795

Ion Ratio Lower Upper

252 100

253 30.1 17.7 26.5#

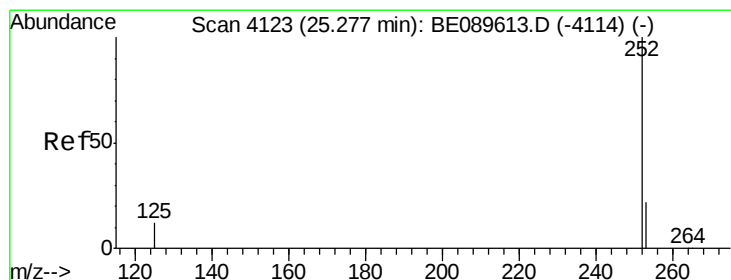
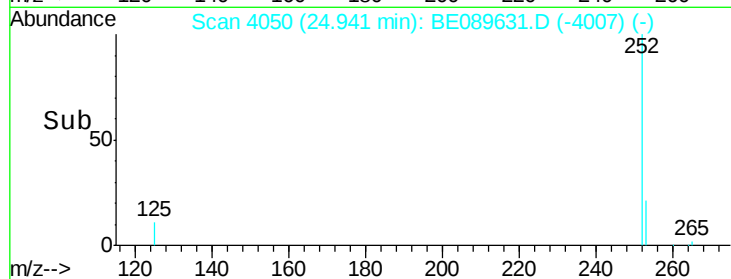
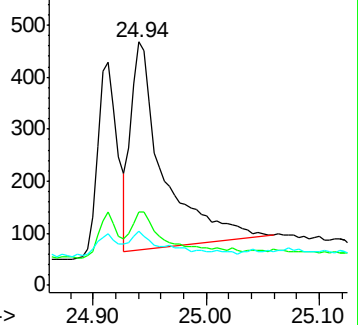
125 22.2 8.8 13.2#



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: BE089631.D

Acq: 19 Feb 2015 00:14

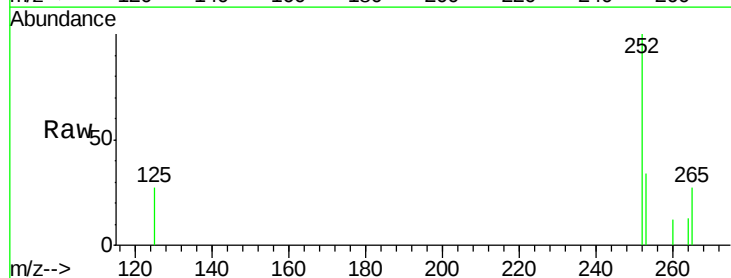
Tgt Ion:252 Resp: 477

Ion Ratio Lower Upper

252 100

253 34.1 18.1 27.1#

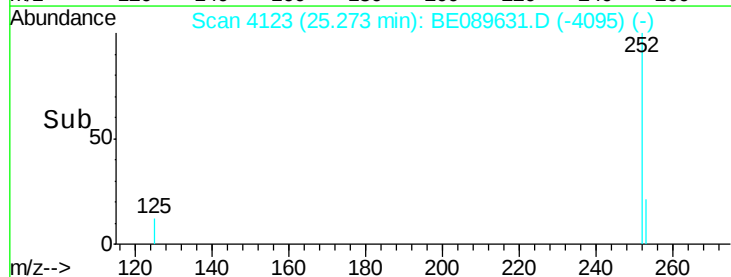
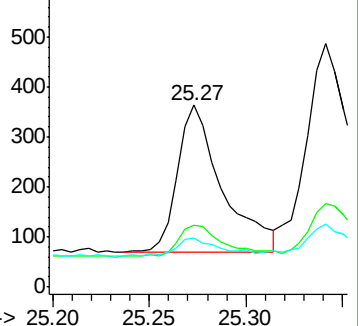
125 26.9 9.6 14.4#

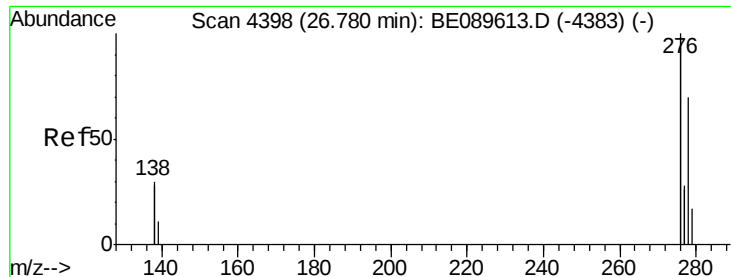


Abundance Ion 252.00 (251.70 to 252.70): E

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: 26.78 min Scan# 4399

Delta R.T. 0.00 min

Lab File: BE089631.D

Acq: 19 Feb 2015 00:14

Instrument :

BNA_E

ClientSampleId :

MDL-03-S

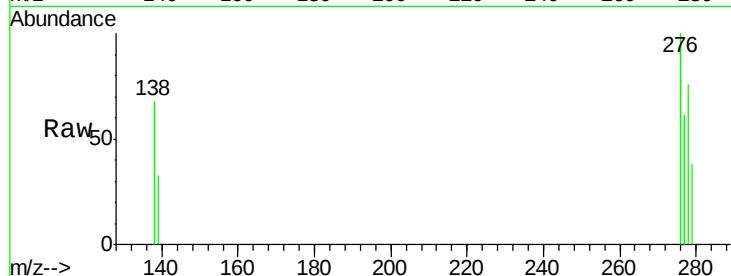
Tgt Ion:278 Resp: 331

Ion Ratio Lower Upper

278 100

139 42.6 13.7 20.5#

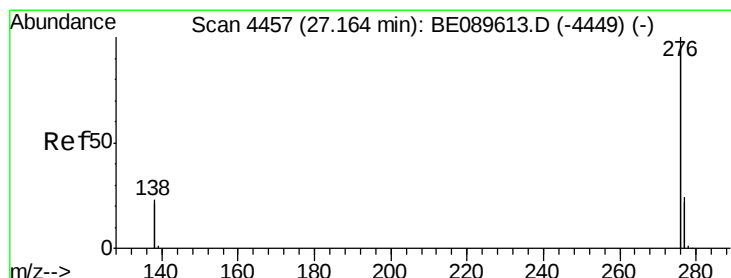
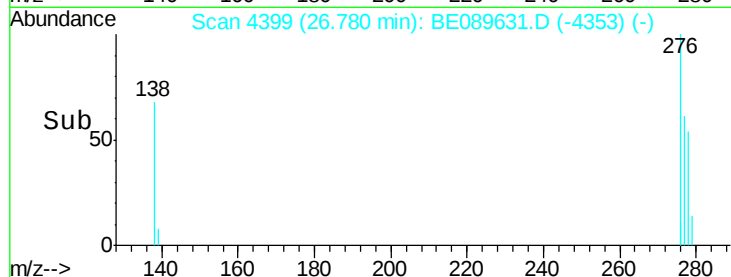
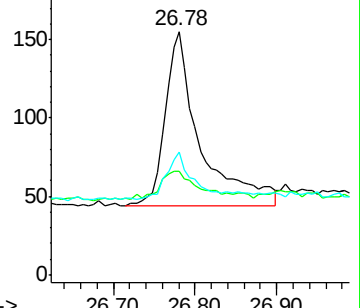
279 50.3 19.7 29.5#



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



#30

Benzo(g,h,i)perylene

Concen: 0.16 ng

RT: 27.17 min Scan# 4458

Delta R.T. 0.00 min

Lab File: BE089631.D

Acq: 19 Feb 2015 00:14

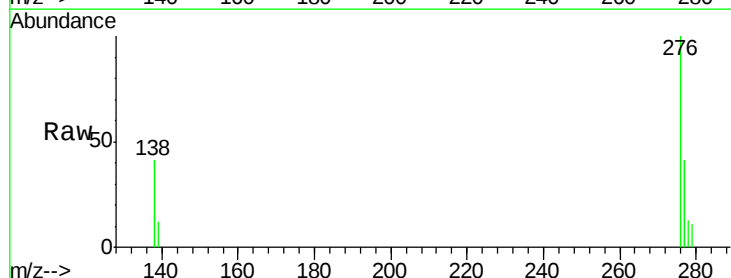
Tgt Ion:276 Resp: 2788

Ion Ratio Lower Upper

276 100

277 40.9 19.1 28.7#

138 40.7 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

