

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021815\
 Data File : BE089639.D
 Acq On : 19 Feb 2015 16:33
 Operator : TP/IZ
 Sample : MDL-01-W
 Misc : MDL-WATER-0.2/0.4
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-01-W

Quant Time: Feb 20 10:04:58 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	32556	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	128414	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	64403	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	126347	5.00	ng	0.00
19) Chrysene-d12	23.66	240	117982	5.00	ng	0.00
25) Perylene-d12	25.34	264	98073	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	59451	10.65	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	158884	9.21	ng	0.00
21) Terphenyl-d14	22.30	244	205724	12.13	ng	0.00
Target Compounds						Ovalue
2) 1,4-Dioxane	2.73	88	510	0.13	ng	# 85
3) n-Nitrosodimethylamine	3.50	42	338	0.09	ng	# 75
6) Naphthalene	12.29	128	4050	0.14	ng	95
7) 2-Methylnaphthalene	13.95	142	2237	0.13	ng	99
10) Acenaphthylene	16.07	152	12395	0.12	ng	99
11) Acenaphthene	16.49	154	2315	0.14	ng	97
12) Fluorene	17.74	166	2625	0.14	ng	98
14) Hexachlorobenzene	19.00	284	811	0.15	ng	95
15) Pentachlorophenol	19.44	266	54	0.04	ng	# 76
16) Phenanthrene	19.81	178	4448	0.14	ng	98
17) Anthracene	19.91	178	3359	0.13	ng	98
18) Fluoranthene	21.72	202	3711	0.13	ng	99
20) Pyrene	22.04	202	3966	0.14	ng	99
22) Benzo(a)anthracene	23.65	228	12772	0.12	ng	96
23) Chrysene	23.69	228	19943	0.17	ng	97
24) Indeno(1,2,3-cd)pyrene	26.74	276	4520	0.22	ng	# 88
26) Benzo(b)fluoranthene	24.91	252	912	0.31	ng	# 88
27) Benzo(k)fluoranthene	24.94	252	2309m	0.08	ng	
28) Benzo(a)pyrene	25.27	252	1025	0.29	ng	# 86
29) Dibenzo(a,h)anthracene	26.77	278	671	0.26	ng	# 69
30) Benzo(g,h,i)perylene	27.16	276	6077	0.20	ng	# 82

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1299

Delta R.T. -0.00 min

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BNA_E

ClientSampleId :

MDL-01-W

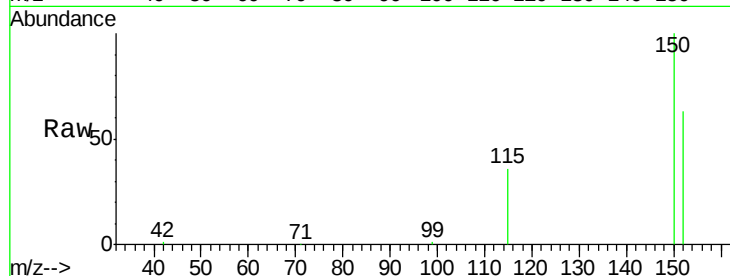
Tot Ion:152 Resp: 32556

Ion Ratio Lower Upper

152 100

150 159.0 122.4 183.6

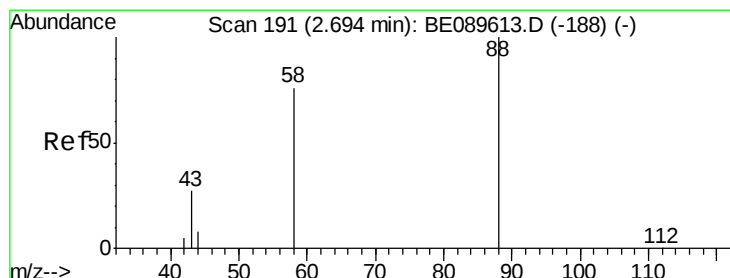
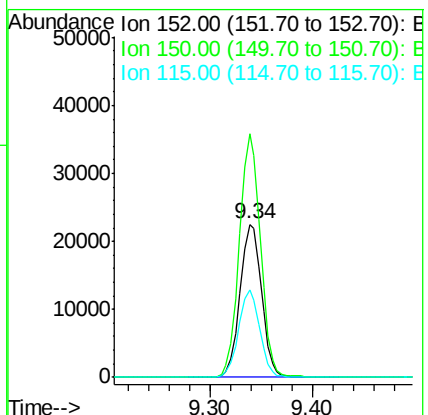
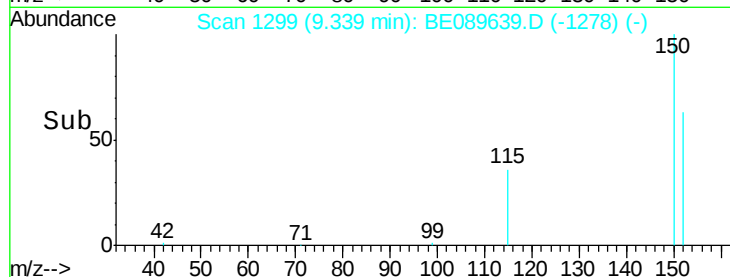
115 57.1 44.2 66.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 0.13 ng

RT: 2.73 min Scan# 196

Delta R.T. 0.03 min

Lab File: BE089639.D

Acq: 19 Feb 2015 16:33

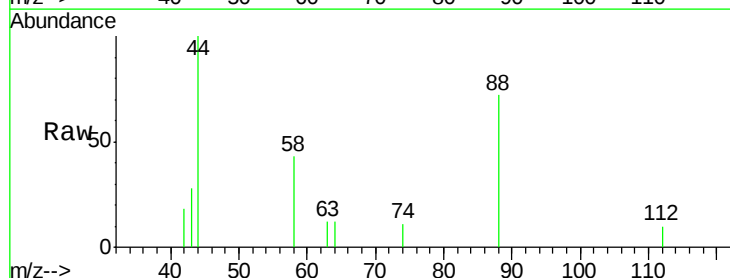
Tgt Ion: 88 Resp: 510

Ion Ratio Lower Upper

88 100

58 69.4 54.6 81.8

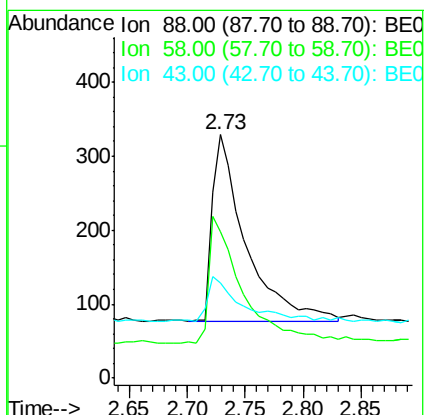
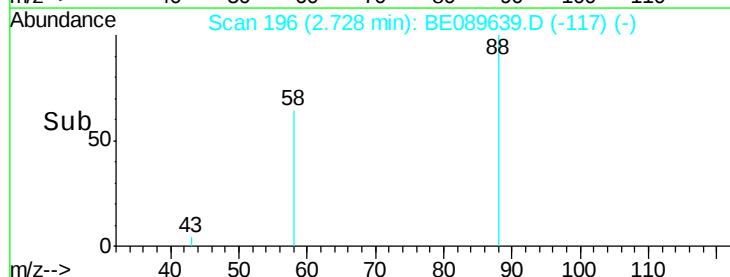
43 0.0 20.6 30.8#

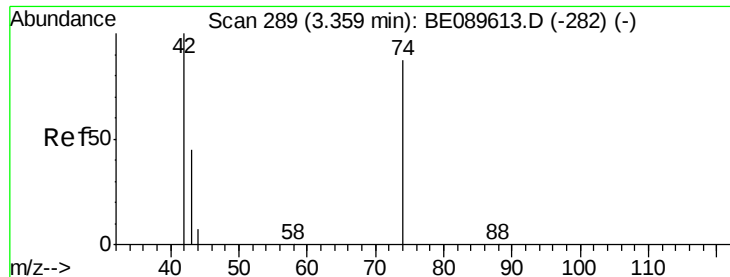


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



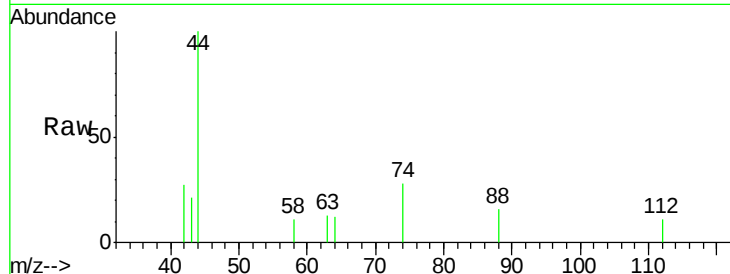


#3

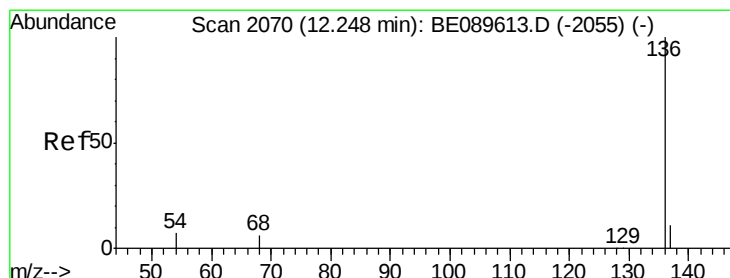
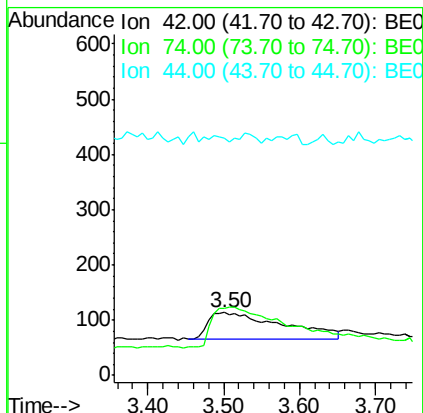
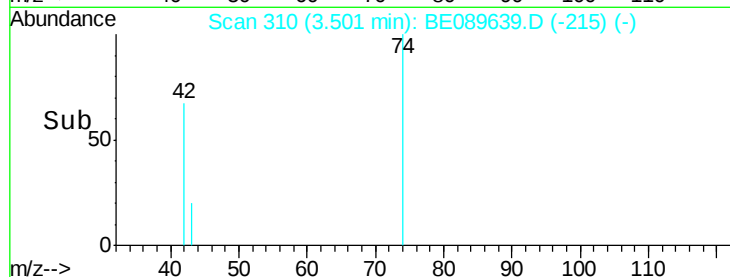
n-Nitrosodimethylamine
 Concen: 0.09 ng
 RT: 3.50 min Scan# 310
 Delta R.T. 0.14 min
 Lab File: BE089639.D
 Acq: 19 Feb 2015 16:33

Instrument :
 BNA_E
 ClientSampleId :
 MDL-01-W

Tot Ion: 42 Resp: 338
 Ion Ratio Lower Upper
 42 100
 74 119.2 121.4 182.0#
 44 0.0 4.5 6.7#



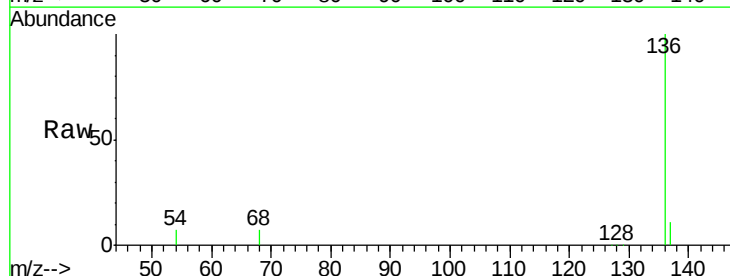
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



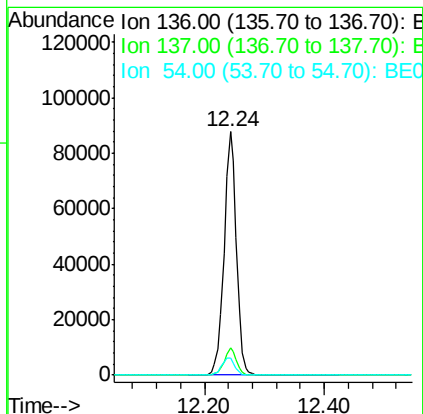
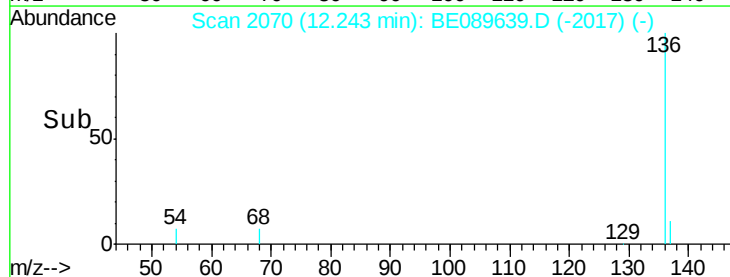
#4

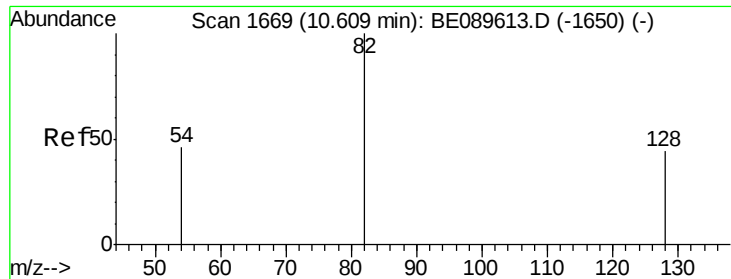
Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.24 min Scan# 2070
 Delta R.T. -0.01 min
 Lab File: BE089639.D
 Acq: 19 Feb 2015 16:33

Tgt Ion: 136 Resp: 128414
 Ion Ratio Lower Upper
 136 100
 137 11.0 8.9 13.3
 54 7.0 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: 10.65 ng

RT: 10.61 min Scan# 1668

Delta R.T. -0.00 min

Lab File: BE089639.D

Acq: 19 Feb 2015 16:33

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

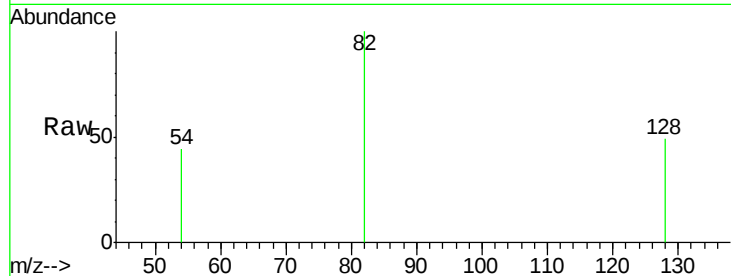
Tot Ion: 82 Resp: 59451

Ion Ratio Lower Upper

82 100

128 48.8 35.5 53.3

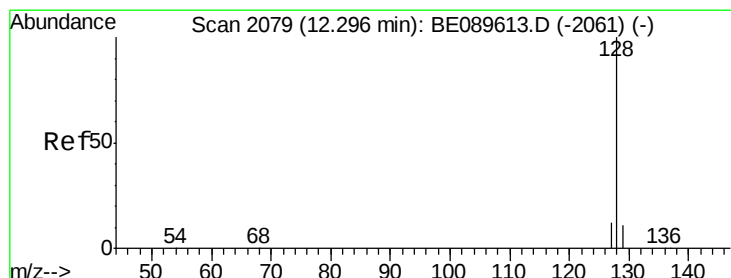
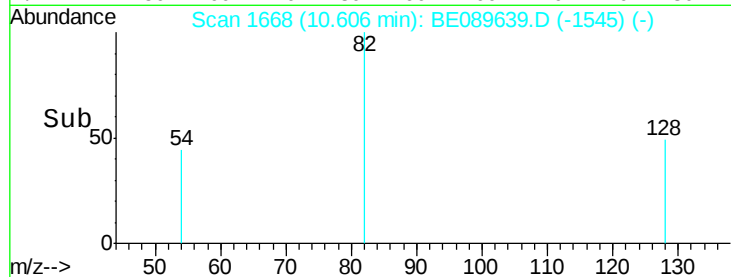
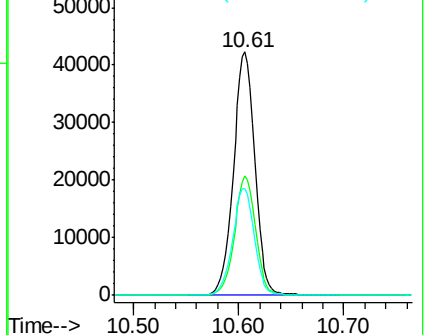
54 44.0 37.5 56.3



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: 0.14 ng

RT: 12.29 min Scan# 2079

Delta R.T. -0.01 min

Lab File: BE089639.D

Acq: 19 Feb 2015 16:33

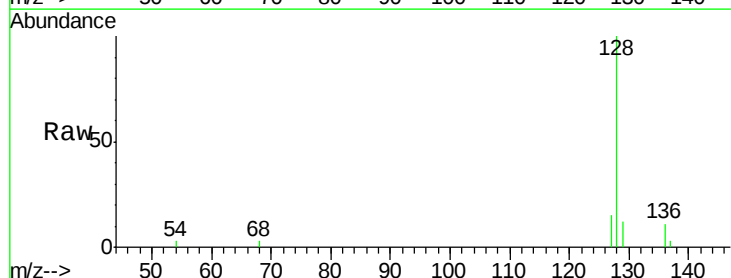
Tgt Ion: 128 Resp: 4050

Ion Ratio Lower Upper

128 100

129 12.3 8.9 13.3

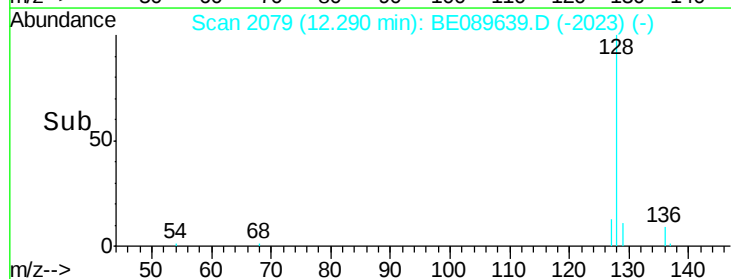
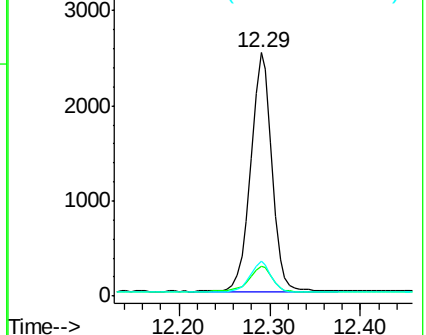
127 14.6 9.8 14.8



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: 0.13 ng

RT: 13.95 min Scan# 2418

Delta R.T. -0.00 min

Lab File: BE089639.D

Acq: 19 Feb 2015 16:33

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

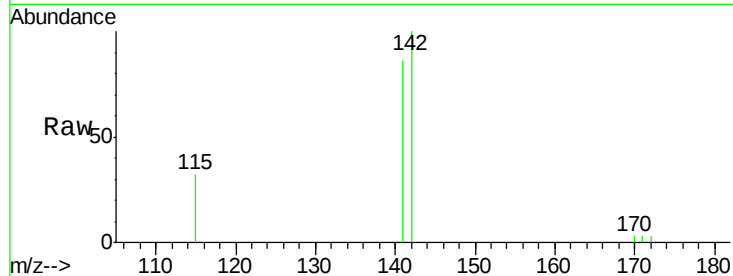
Tot Ion:142 Resp: 2237

Ion Ratio Lower Upper

142 100

141 86.4 68.3 102.5

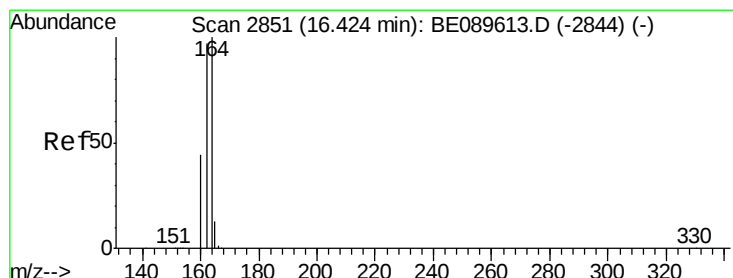
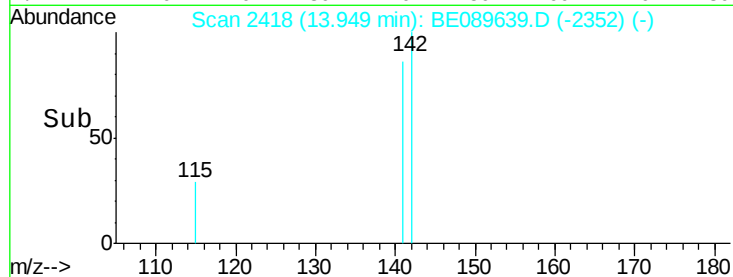
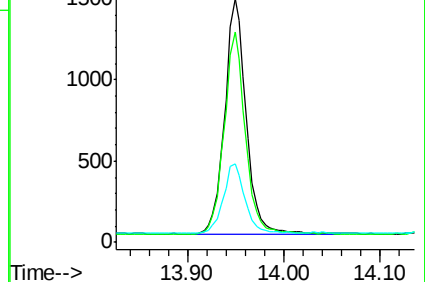
115 32.4 25.1 37.7



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: BE089639.D

Acq: 19 Feb 2015 16:33

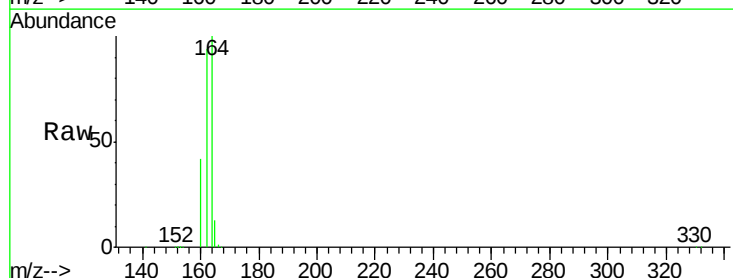
Tgt Ion:164 Resp: 64403

Ion Ratio Lower Upper

164 100

162 94.1 77.5 116.3

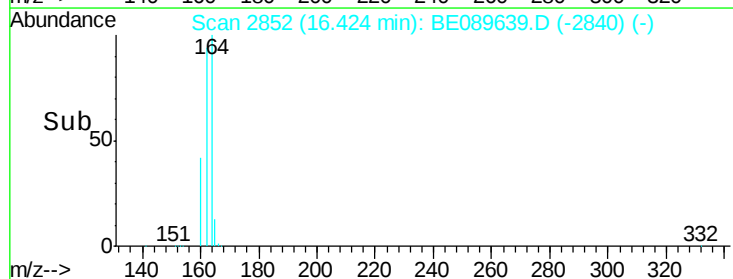
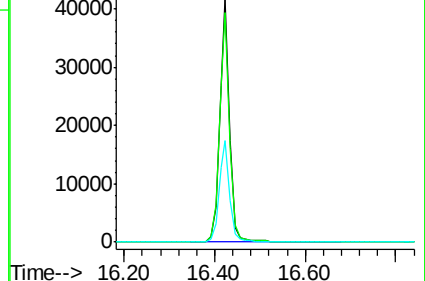
160 41.8 35.5 53.3



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: 9.21 ng

RT: 14.88 min Scan# 2622

Delta R.T. -0.00 min

Lab File: BE089639.D

Acq: 19 Feb 2015 16:33

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

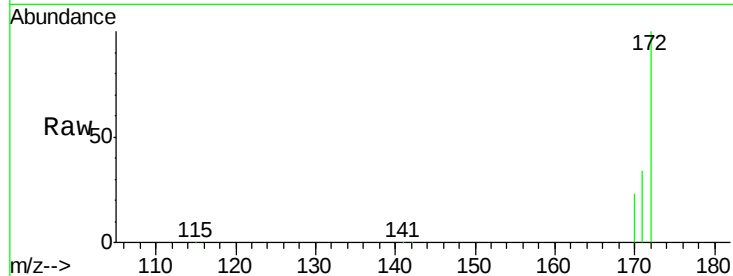
Tot Ion:172 Resp: 158884

Ion Ratio Lower Upper

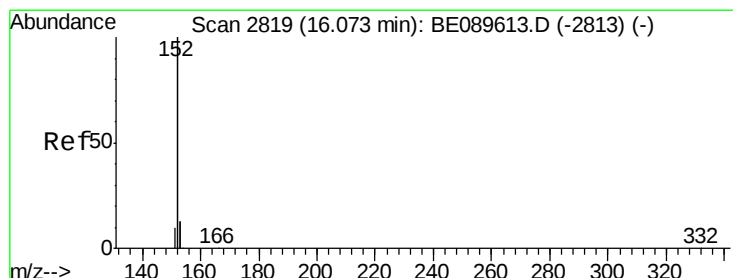
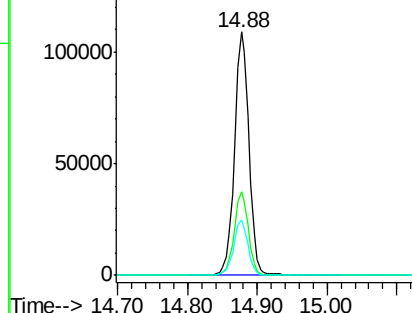
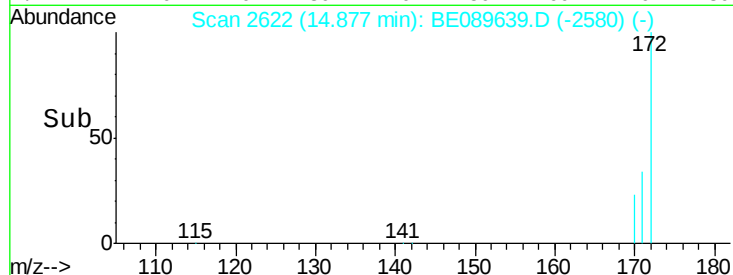
172 100

171 34.2 26.9 40.3

170 22.6 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: 0.12 ng

RT: 16.07 min Scan# 2820

Delta R.T. 0.00 min

Lab File: BE089639.D

Acq: 19 Feb 2015 16:33

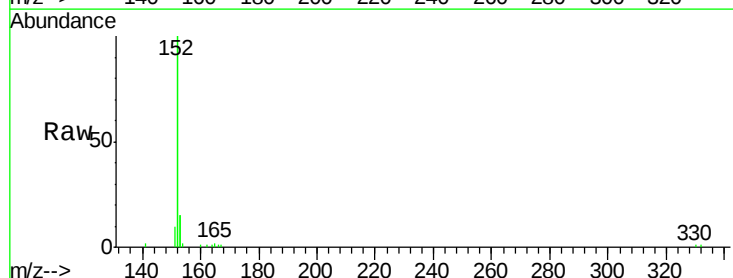
Tgt Ion:152 Resp: 12395

Ion Ratio Lower Upper

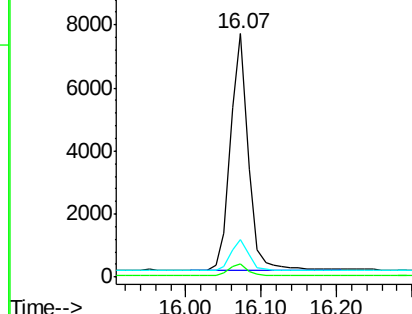
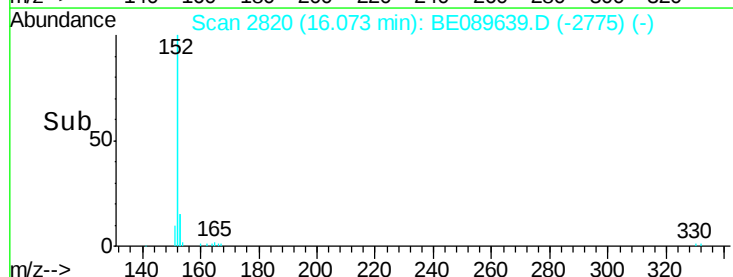
152 100

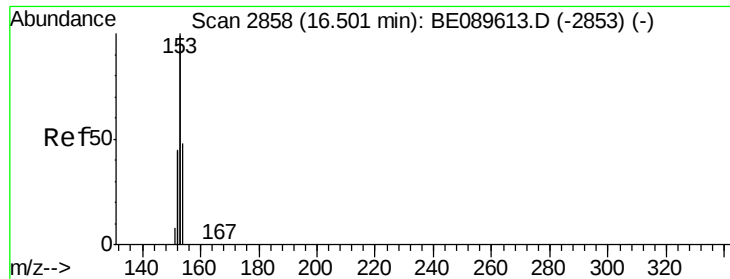
151 4.7 3.9 5.9

153 13.8 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: 0.14 ng

RT: 16.49 min Scan# 2858

Delta R.T. -0.01 min

Lab File: BE089639.D

Acq: 19 Feb 2015 16:33

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

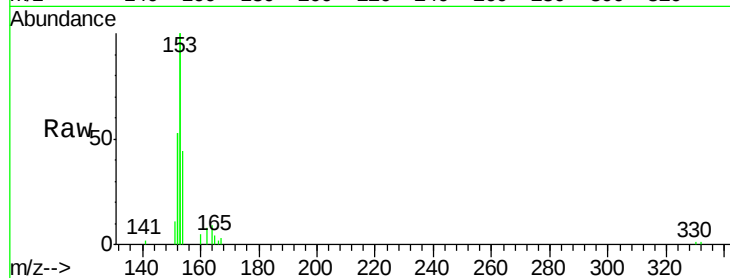
Tot Ion:154 Resp: 2315

Ion Ratio Lower Upper

154 100

153 433.4 348.9 523.3

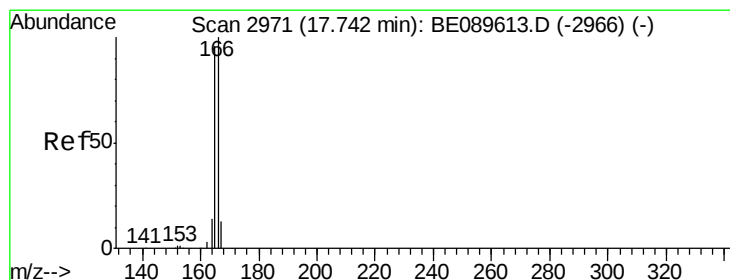
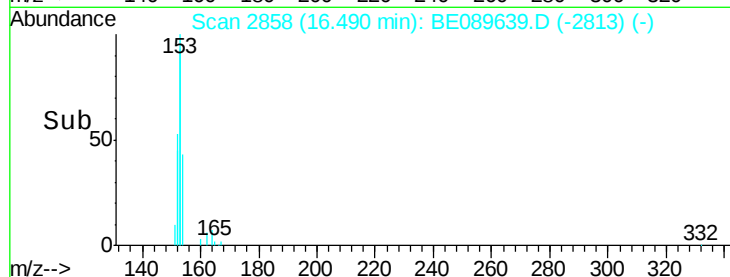
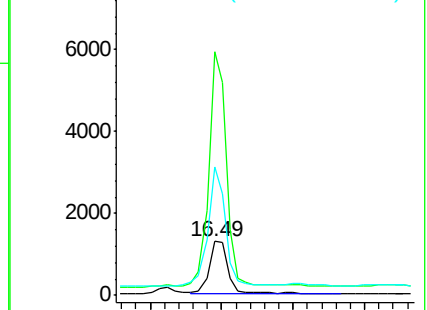
152 218.7 166.6 249.8



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: 0.14 ng

RT: 17.74 min Scan# 2972

Delta R.T. 0.00 min

Lab File: BE089639.D

Acq: 19 Feb 2015 16:33

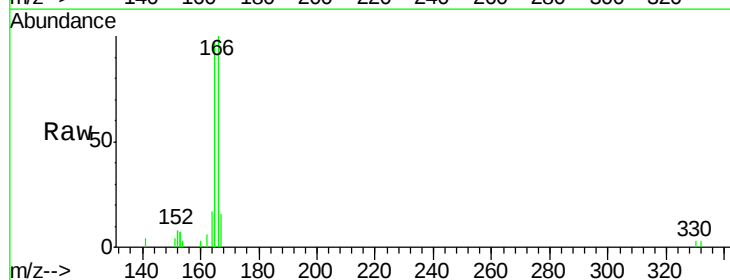
Tgt Ion:166 Resp: 2625

Ion Ratio Lower Upper

166 100

165 92.0 74.7 112.1

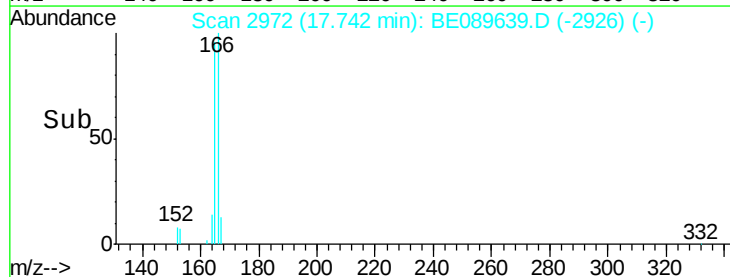
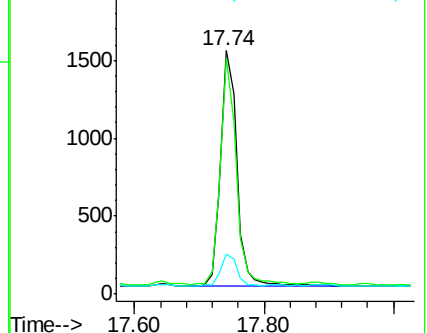
167 13.8 10.5 15.7

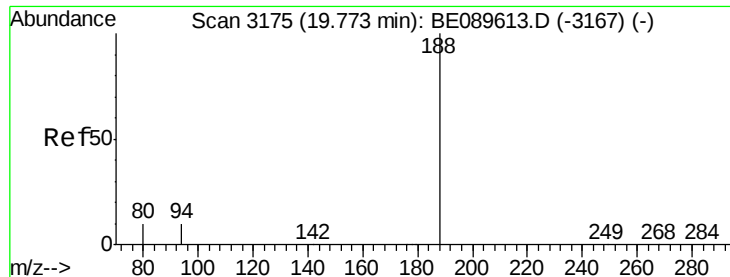


Abundance Ion 166.00 (165.70 to 166.70): E

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: BE089639.D

Acq: 19 Feb 2015 16:33

Instrument :

BNA_E

ClientSampled :

MDL-01-W

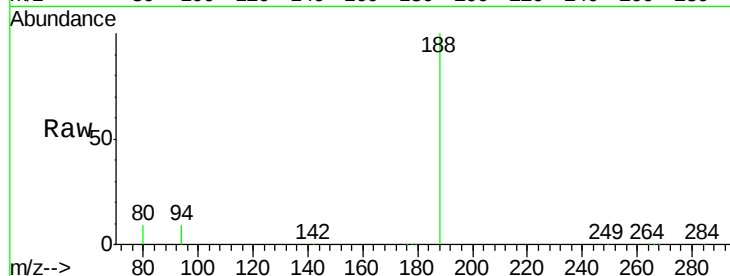
Tot Ion:188 Resp: 126347

Ion Ratio Lower Upper

188 100

94 9.4 8.2 12.4

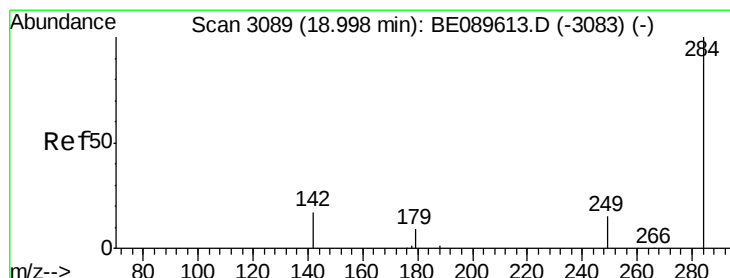
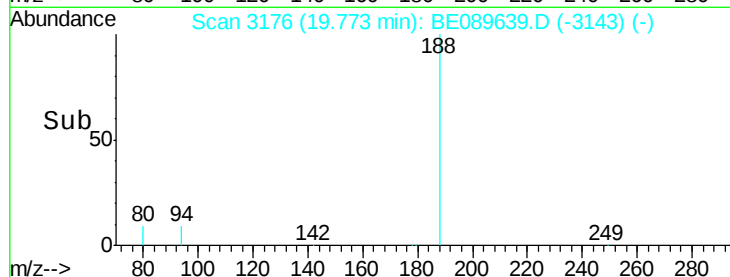
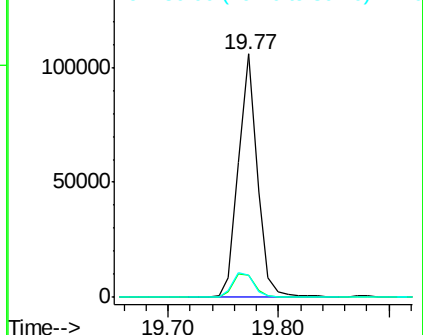
80 9.0 8.1 12.1



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: 0.15 ng

RT: 19.00 min Scan# 3090

Delta R.T. 0.00 min

Lab File: BE089639.D

Acq: 19 Feb 2015 16:33

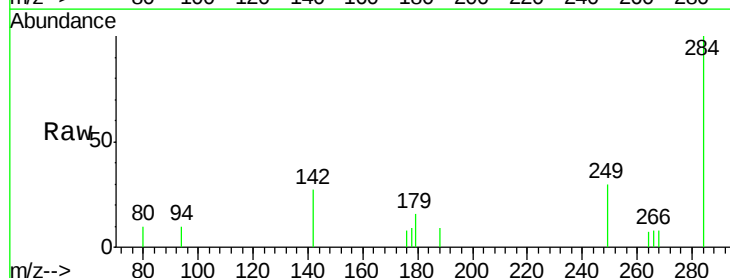
Tgt Ion:284 Resp: 811

Ion Ratio Lower Upper

284 100

142 45.4 32.3 48.5

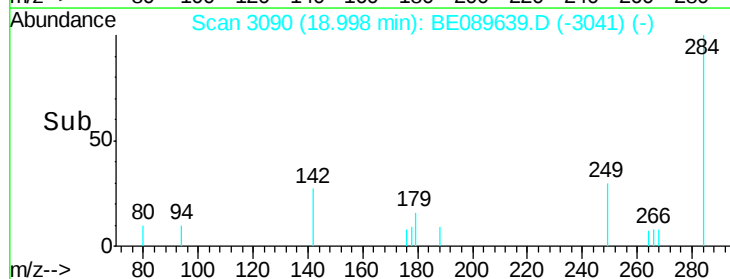
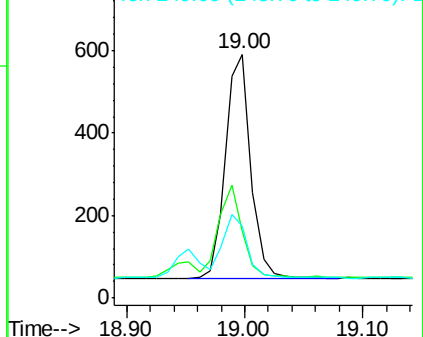
249 28.0 22.3 33.5



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

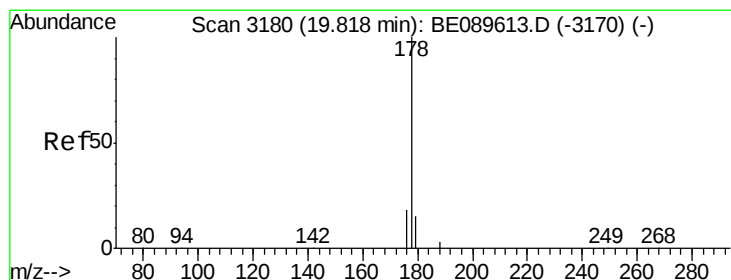
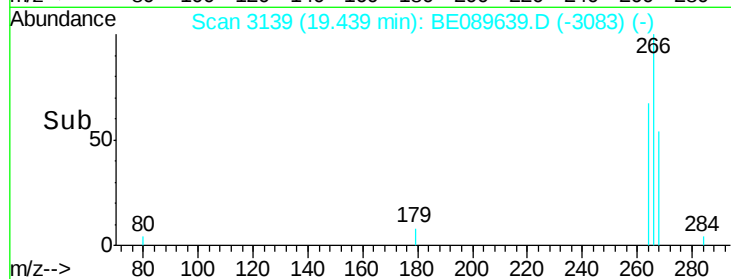
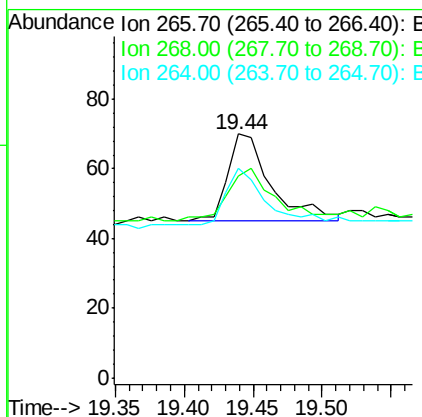
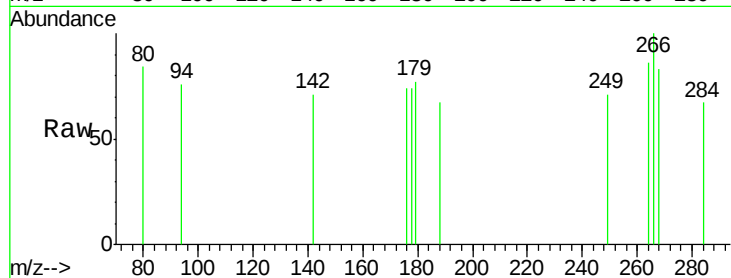




#15
 Pentachlorophenol
 Concen: 0.04 ng
 RT: 19.44 min Scan# 3139
 Delta R.T. 0.00 min
 Lab File: BE089639.D
 Acq: 19 Feb 2015 16:33

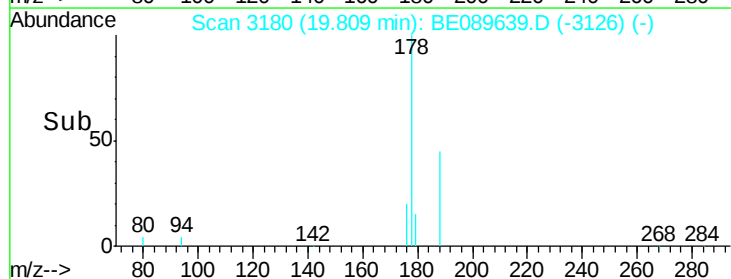
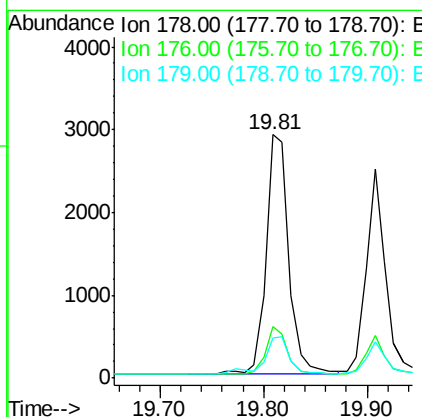
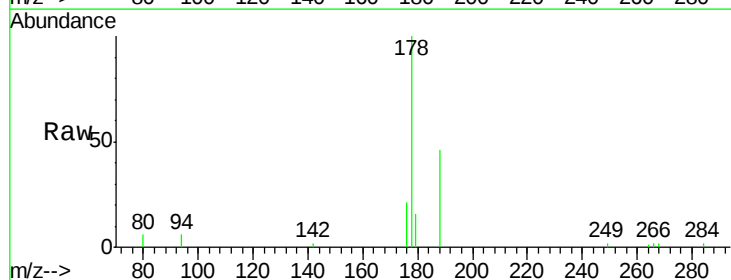
Instrument :
 BNA_E
 ClientSampleId :
 MDL-01-W

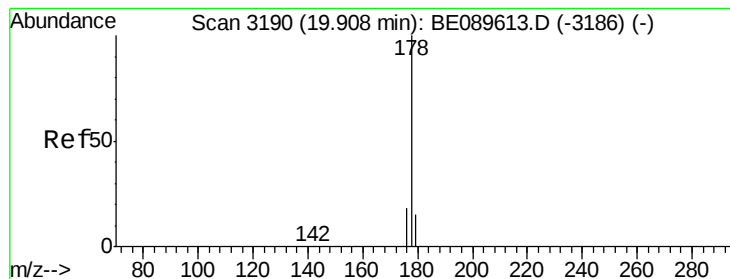
Tot Ion:266 Resp: 54
 Ion Ratio Lower Upper
 266 100
 268 82.9 52.6 79.0#
 264 85.7 51.8 77.8#



#16
 Phenanthrene
 Concen: 0.14 ng
 RT: 19.81 min Scan# 3180
 Delta R.T. -0.01 min
 Lab File: BE089639.D
 Acq: 19 Feb 2015 16:33

Tgt Ion:178 Resp: 4448
 Ion Ratio Lower Upper
 178 100
 176 18.5 15.1 22.7
 179 16.9 12.3 18.5





#17

Anthracene

Concen: 0.13 ng

RT: 19.91 min Scan# 3191

Delta R.T. 0.00 min

Lab File: BE089639.D

Acq: 19 Feb 2015 16:33

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

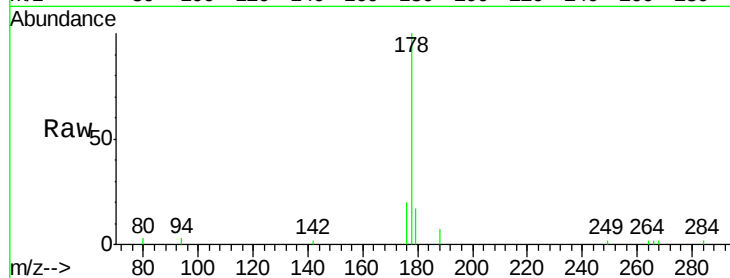
Tot Ion:178 Resp: 3359

Ion Ratio Lower Upper

178 100

176 17.5 14.6 22.0

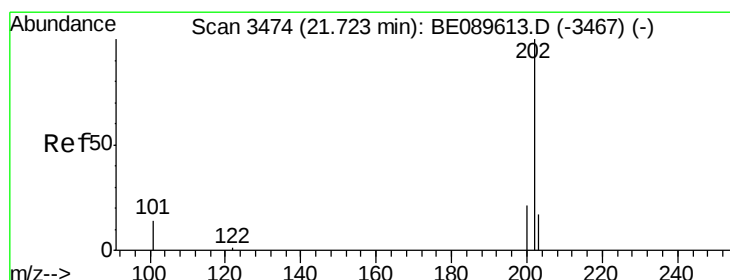
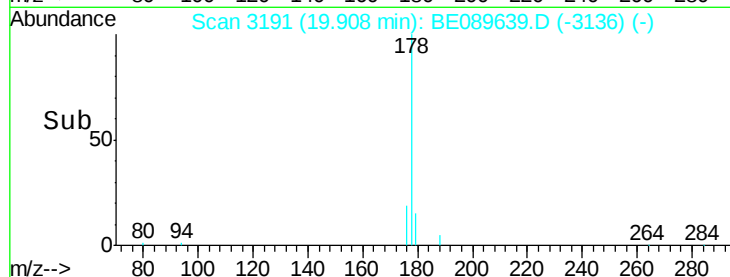
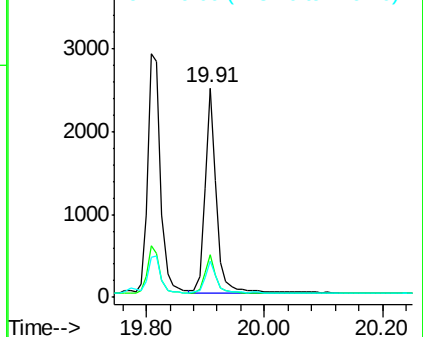
179 14.5 12.3 18.5



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: 0.13 ng

RT: 21.72 min Scan# 3475

Delta R.T. 0.00 min

Lab File: BE089639.D

Acq: 19 Feb 2015 16:33

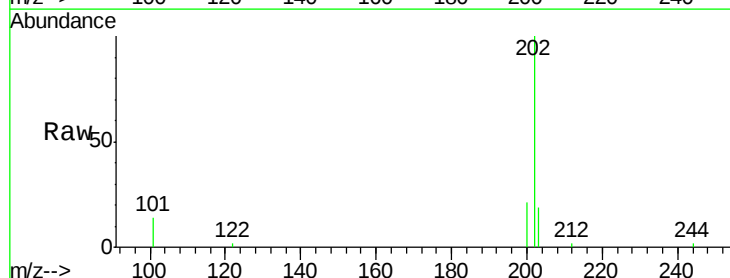
Tgt Ion:202 Resp: 3711

Ion Ratio Lower Upper

202 100

101 12.7 10.4 15.6

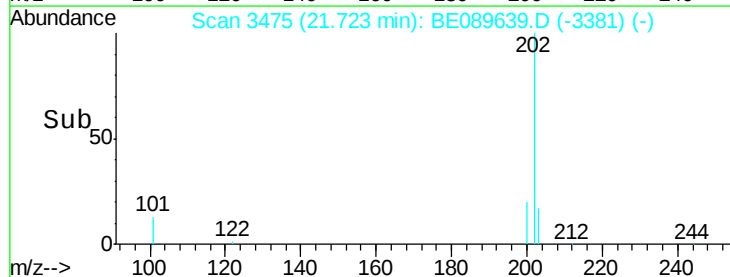
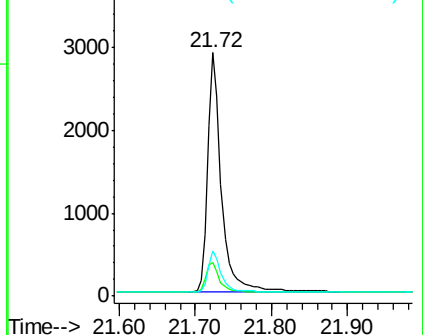
203 16.7 13.9 20.9

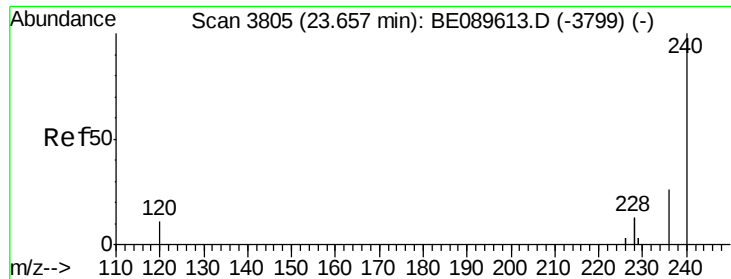


Abundance Ion 202.00 (201.70 to 202.70): E

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: BE089639.D

Acq: 19 Feb 2015 16:33

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

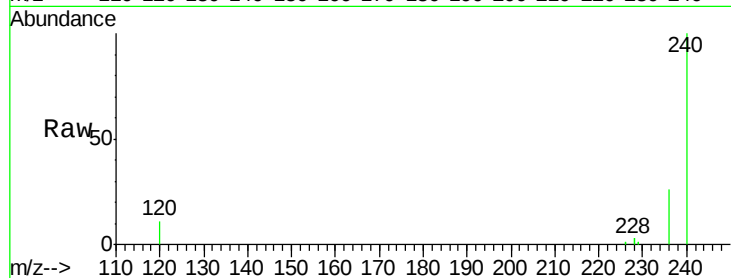
Tot Ion:240 Resp: 117982

Ion Ratio Lower Upper

240 100

120 10.7 9.0 13.4

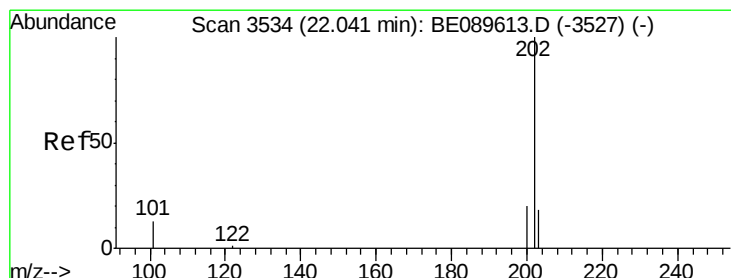
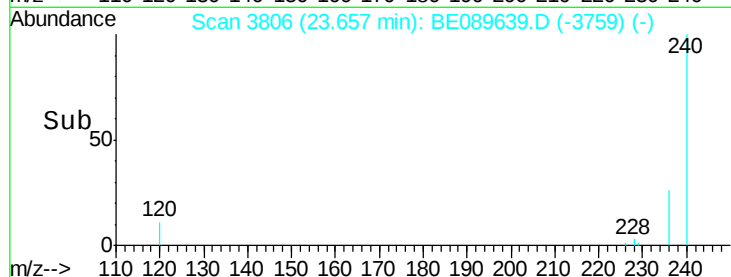
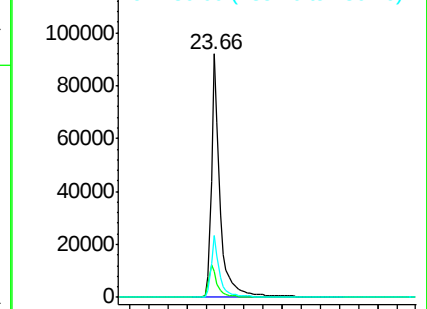
236 25.7 21.0 31.6



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: 0.14 ng

RT: 22.04 min Scan# 3535

Delta R.T. 0.00 min

Lab File: BE089639.D

Acq: 19 Feb 2015 16:33

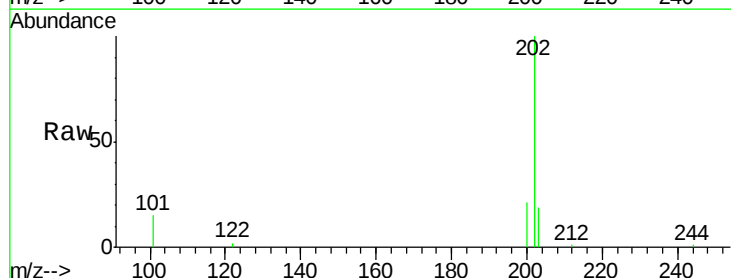
Tgt Ion:202 Resp: 3966

Ion Ratio Lower Upper

202 100

200 20.0 16.3 24.5

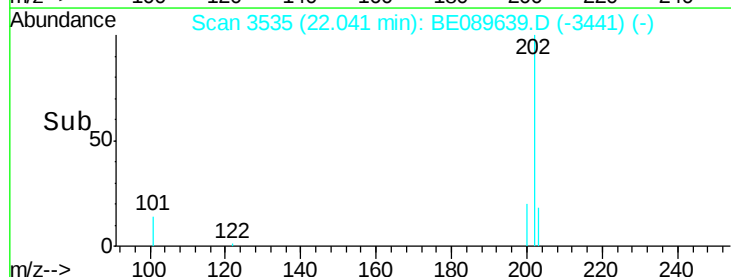
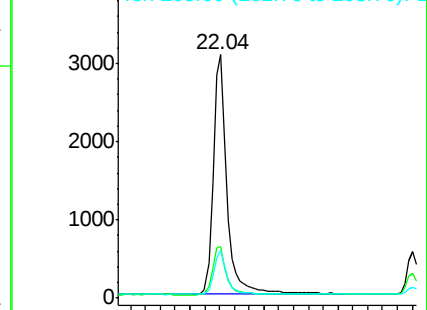
203 17.5 13.8 20.8



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: 12.13 ng

RT: 22.30 min Scan# 3584

Delta R.T. 0.00 min

Lab File: BE089639.D

Acq: 19 Feb 2015 16:33

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

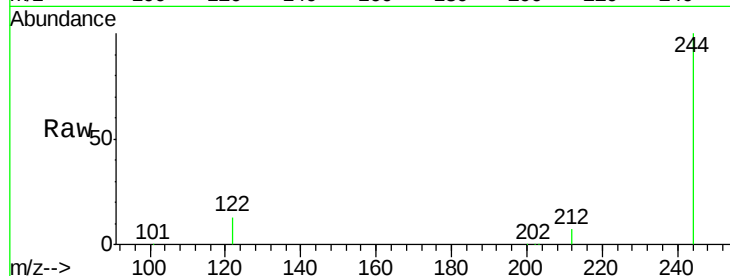
Tot Ion:244 Resp: 205724

Ion Ratio Lower Upper

244 100

212 6.7 5.8 8.8

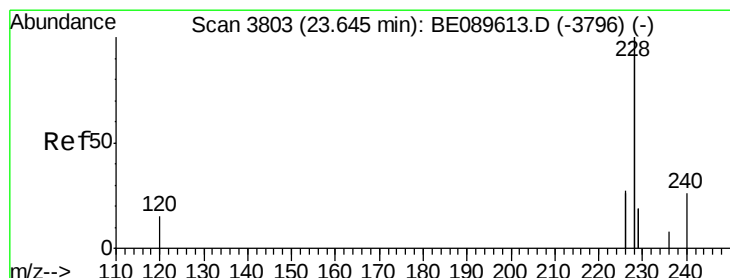
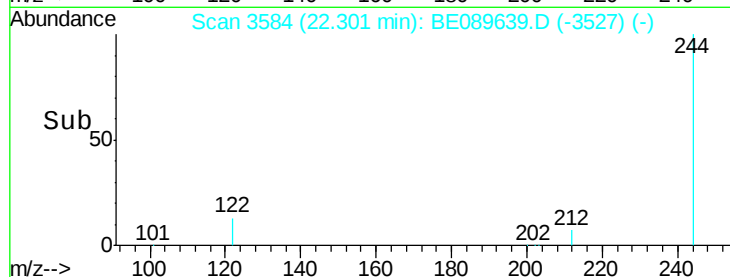
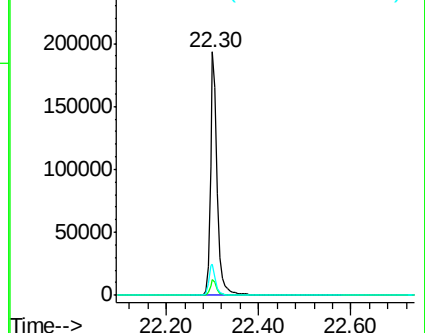
122 13.0 11.8 17.8



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: 0.12 ng

RT: 23.65 min Scan# 3805

Delta R.T. 0.01 min

Lab File: BE089639.D

Acq: 19 Feb 2015 16:33

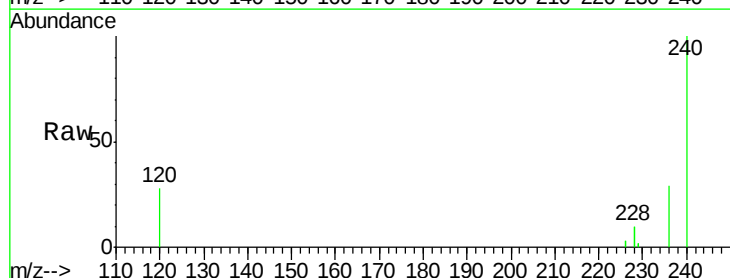
Tgt Ion:228 Resp: 12772

Ion Ratio Lower Upper

228 100

226 25.3 21.2 31.8

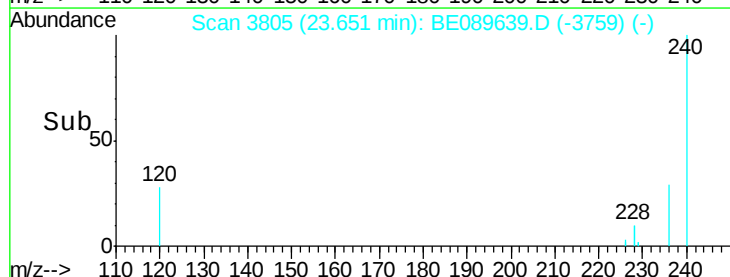
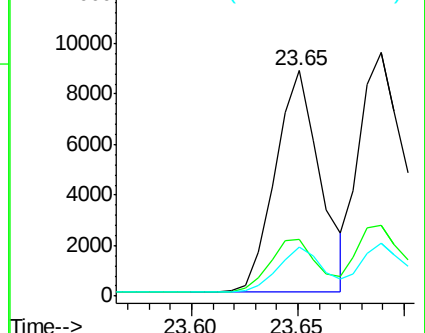
229 21.9 15.2 22.8

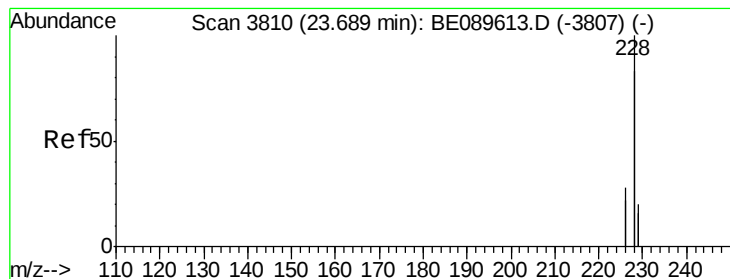


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 0.17 ng

RT: 23.69 min Scan# 3811

Delta R.T. -0.00 min

Lab File: BE089639.D

Acq: 19 Feb 2015 16:33

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

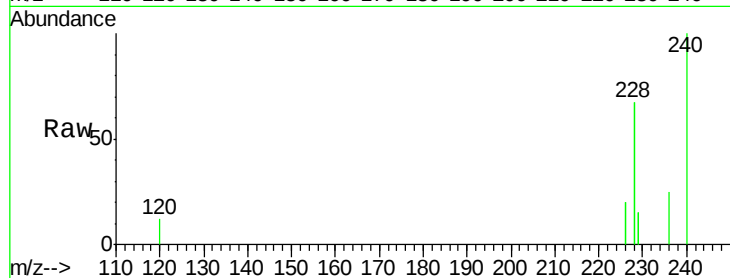
Tot Ion:228 Resp: 19943

Ion Ratio Lower Upper

228 100

226 29.3 22.2 33.4

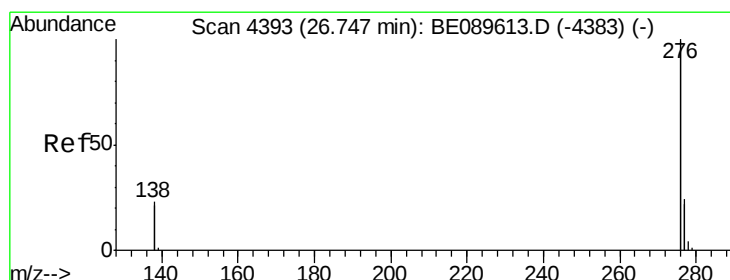
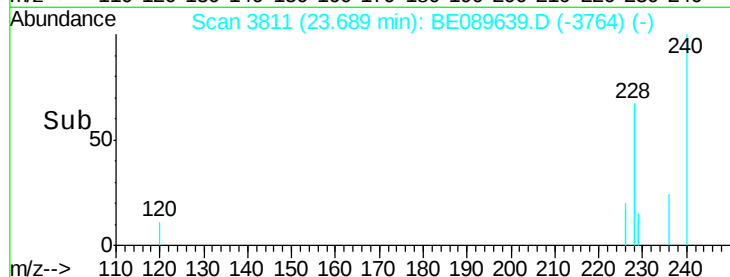
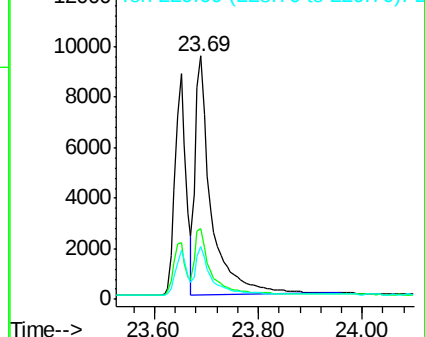
229 21.9 16.0 24.0



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: 0.22 ng

RT: 26.74 min Scan# 4393

Delta R.T. -0.01 min

Lab File: BE089639.D

Acq: 19 Feb 2015 16:33

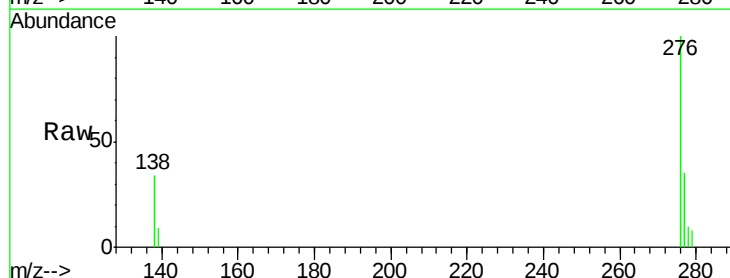
Tgt Ion:276 Resp: 4520

Ion Ratio Lower Upper

276 100

138 20.8 21.4 32.2#

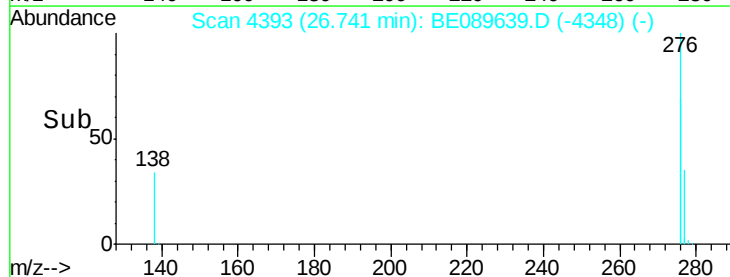
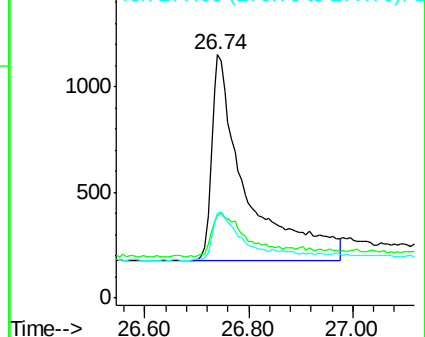
277 19.0 19.9 29.9#

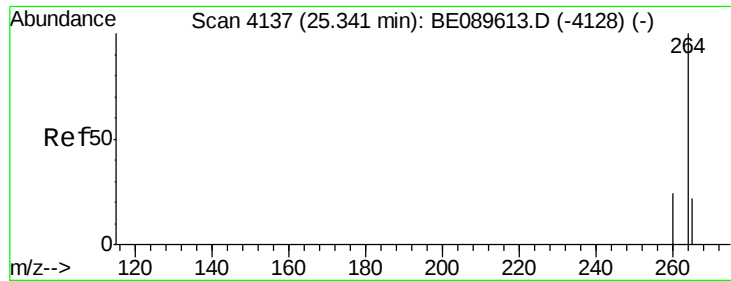


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

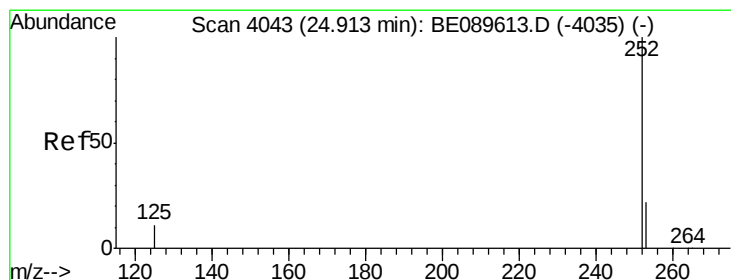
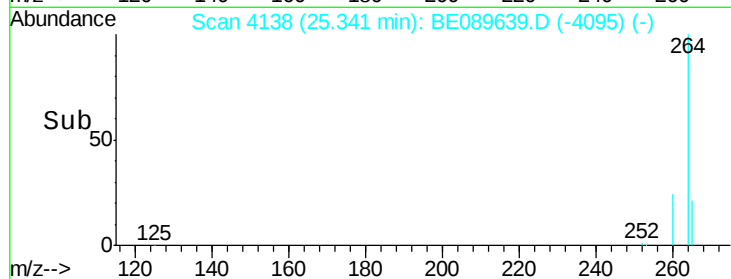
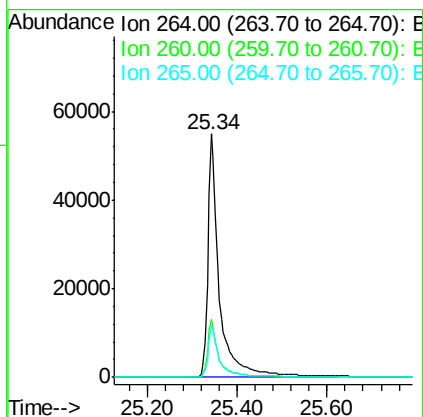
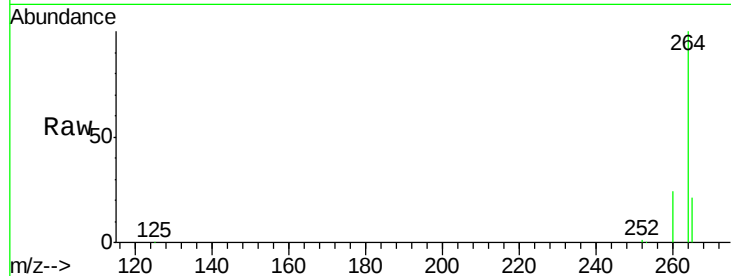




#25
Pervlene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4138
Delta R.T. 0.00 min
Lab File: BE089639.D
Acq: 19 Feb 2015 16:33

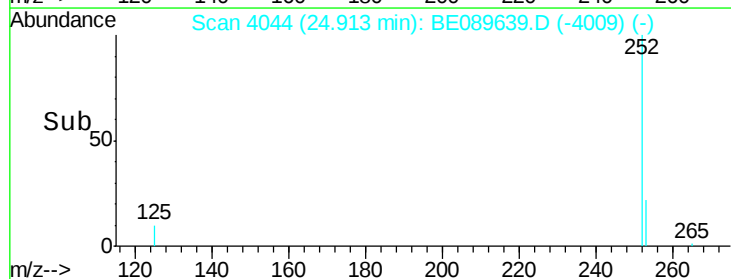
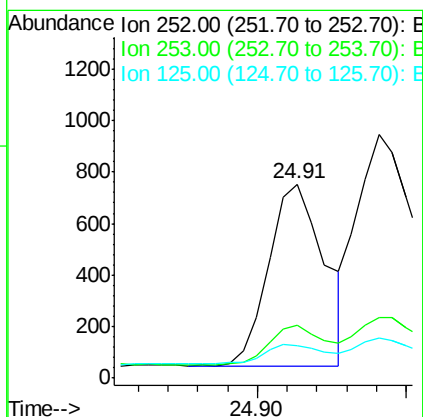
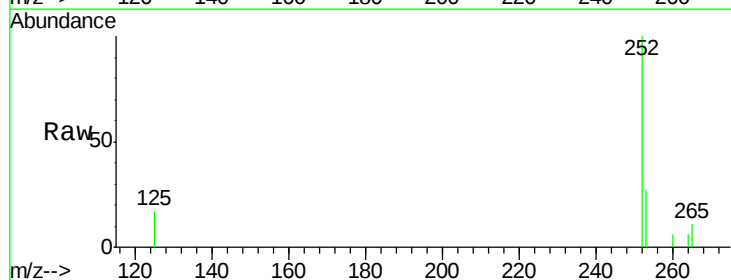
Instrument :
BNA_E
ClientSampleId :
MDL-01-W

Tot Ion:264 Resp: 98073
Ion Ratio Lower Upper
264 100
260 23.9 19.0 28.6
265 21.1 17.4 26.0



#26
Benzo(b)fluoranthene
Concen: 0.31 ng
RT: 24.91 min Scan# 4044
Delta R.T. 0.00 min
Lab File: BE089639.D
Acq: 19 Feb 2015 16:33

Tgt Ion:252 Resp: 912
Ion Ratio Lower Upper
252 100
253 27.3 17.6 26.4#
125 16.6 8.8 13.2#





#27

Benzo(k)fluoranthene

Concen: 0.08 ng

RT: 24.94 min Scan# 4050

Delta R.T. -0.00 min

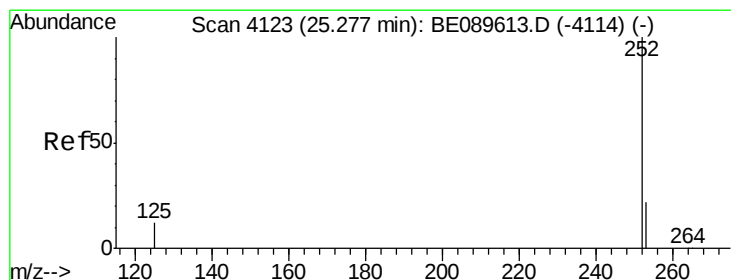
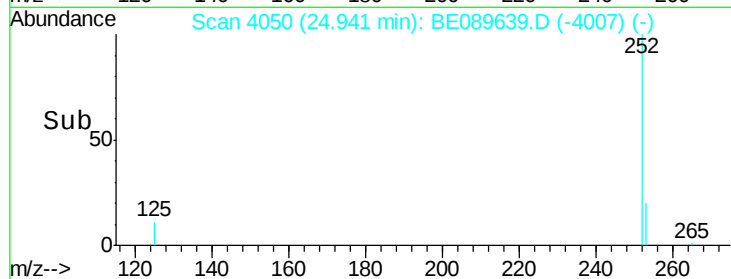
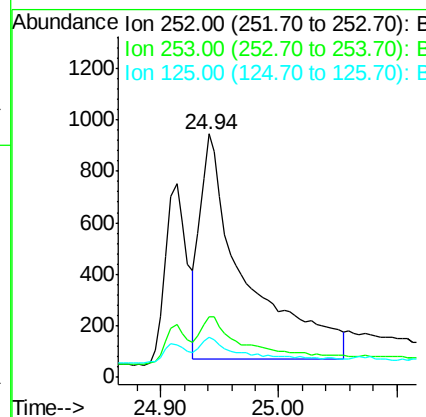
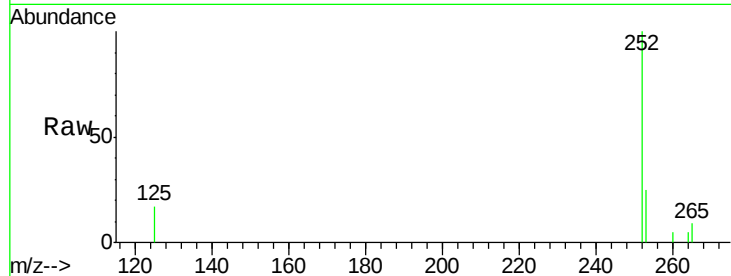
Lab File: BE089639.D

Acq: 19 Feb 2015 16:33

Instrument :
BNA_E
ClientSampleId :
MDL-01-W

Tot Ion:252 Resp: 2309

Ion	Ratio	Lower	Upper
252	100		
253	24.9	17.7	26.5
125	16.5	8.8	13.2#



#28

Benzo(a)pyrene

Concen: 0.29 ng

RT: 25.27 min Scan# 4123

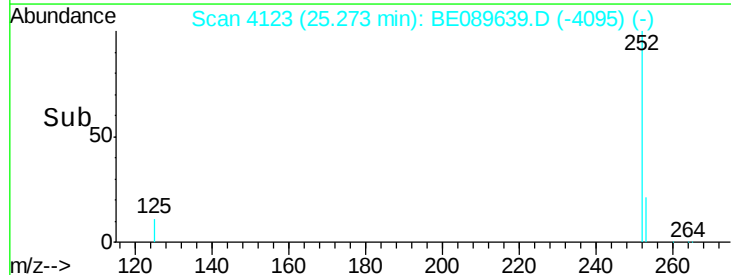
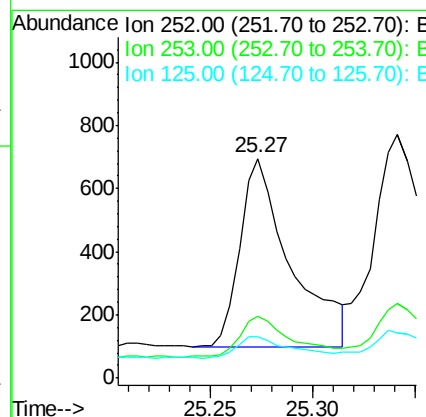
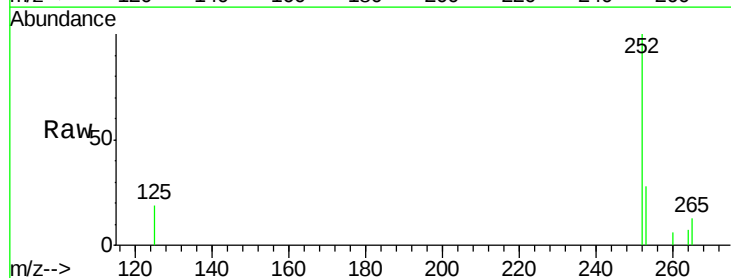
Delta R.T. -0.00 min

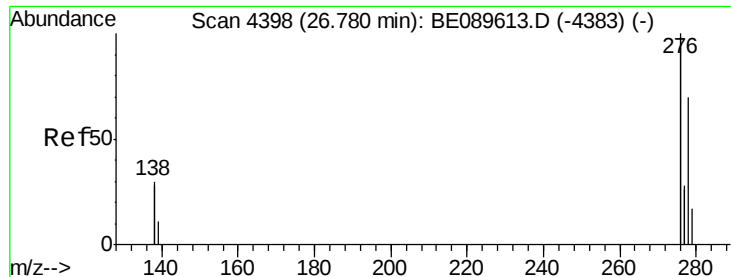
Lab File: BE089639.D

Acq: 19 Feb 2015 16:33

Tgt Ion:252 Resp: 1025

Ion	Ratio	Lower	Upper
252	100		
253	28.2	18.1	27.1#
125	18.7	9.6	14.4#





#29

Dibenzo(a,h)anthracene

Concen: 0.26 ng

RT: 26.77 min Scan# 4398

Delta R.T. -0.01 min

Lab File: BE089639.D

Acq: 19 Feb 2015 16:33

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

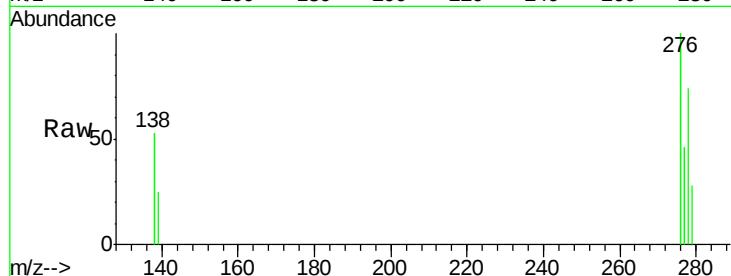
Tot Ion:278 Resp: 671

Ion Ratio Lower Upper

278 100

139 33.1 13.7 20.5#

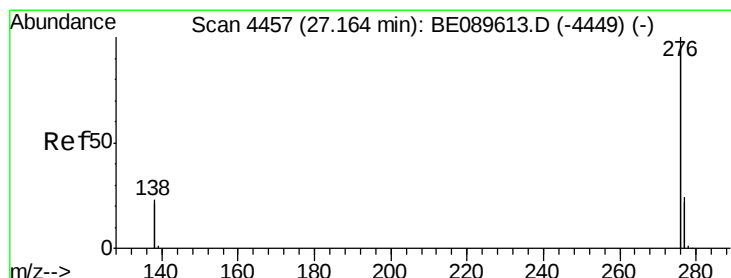
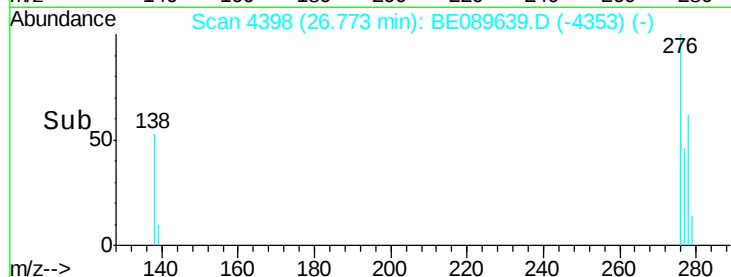
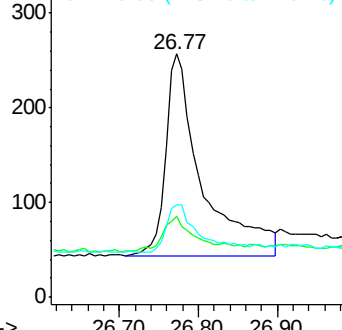
279 38.1 19.7 29.5#



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: 0.20 ng

RT: 27.16 min Scan# 4457

Delta R.T. -0.01 min

Lab File: BE089639.D

Acq: 19 Feb 2015 16:33

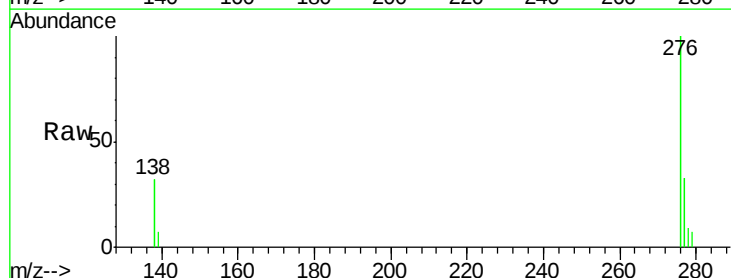
Tgt Ion:276 Resp: 6077

Ion Ratio Lower Upper

276 100

277 33.0 19.1 28.7#

138 31.9 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

