

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021815\
 Data File : BE089644.D
 Acq On : 20 Feb 2015 2:26
 Operator : TP/IZ
 Sample : MDL-06-W
 Misc : MDL-WATER-0.2/0.4
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-06-W

Quant Time: Feb 20 03:51:05 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

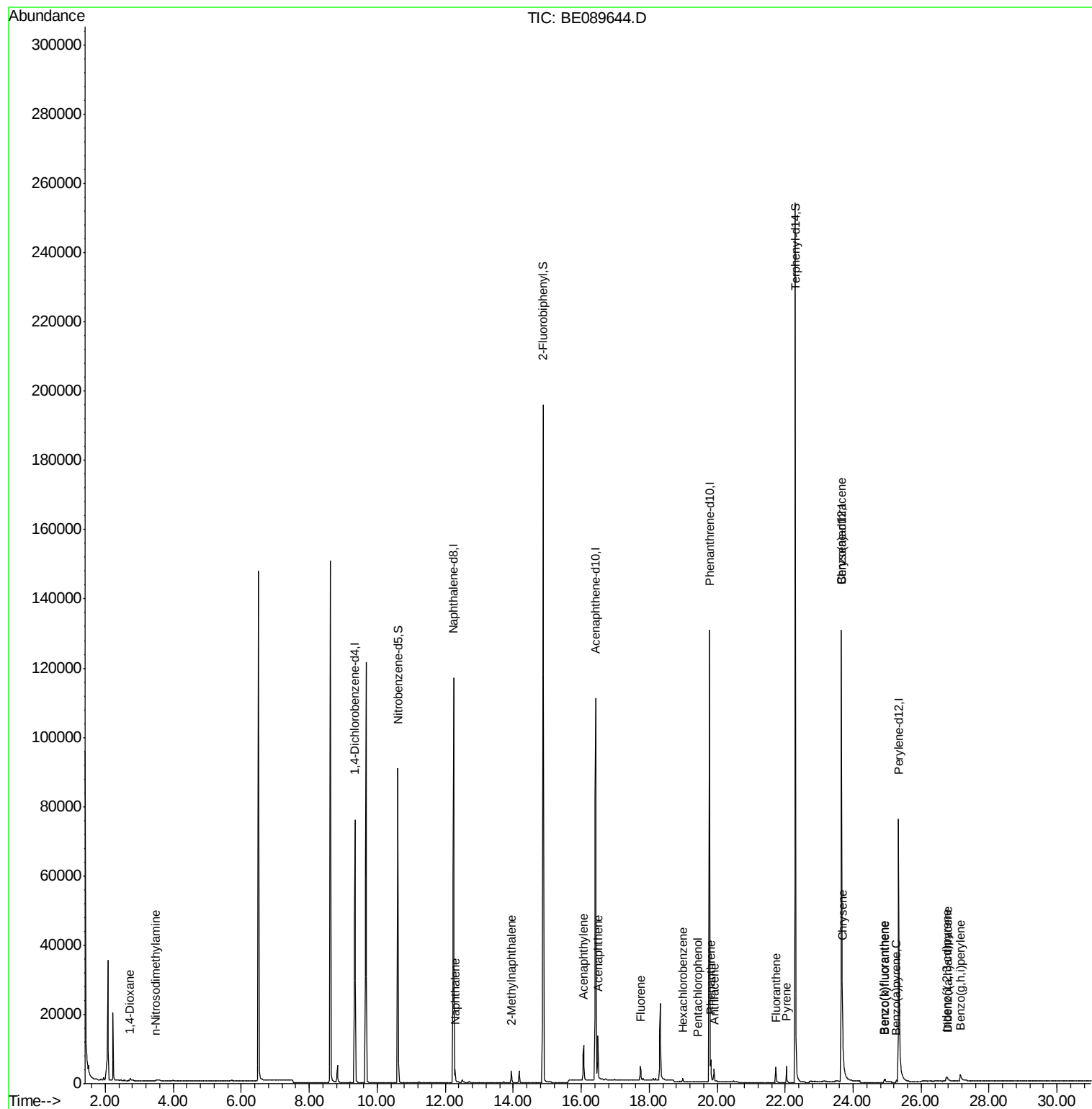
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	34679	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	138386	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	69553	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	137608	5.00	ng	0.00
19) Chrysene-d12	23.66	240	122310	5.00	ng	0.00
25) Perylene-d12	25.34	264	95384	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	64337	10.70	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	179402	9.63	ng	0.00
21) Terphenyl-d14	22.30	244	216259	12.30	ng	0.00
Target Compounds						Ovalue
2) 1,4-Dioxane	2.73	88	589	0.14	ng	# 84
3) n-Nitrosodimethylamine	3.49	42	330	0.08	ng	# 79
6) Naphthalene	12.29	128	4710	0.15	ng	96
7) 2-Methylnaphthalene	13.95	142	2636	0.14	ng	99
10) Acenaphthylene	16.07	152	14548	0.13	ng	100
11) Acenaphthene	16.49	154	2604	0.14	ng	93
12) Fluorene	17.74	166	3015	0.14	ng	98
14) Hexachlorobenzene	18.99	284	964	0.16	ng	96
15) Pentachlorophenol	19.44	266	66	0.05	ng	# 71
16) Phenanthrene	19.81	178	5043	0.15	ng	98
17) Anthracene	19.91	178	3728	0.13	ng	99
18) Fluoranthene	21.72	202	3863	0.12	ng	100
20) Pyrene	22.04	202	4135	0.14	ng	100
22) Benzo(a)anthracene	23.65	228	12035	0.11	ng	95
23) Chrysene	23.69	228	21003	0.17	ng	97
24) Indeno(1,2,3-cd)pyrene	26.75	276	3697	0.21	ng	93
26) Benzo(b)fluoranthene	24.91	252	895	0.31	ng	# 90
27) Benzo(k)fluoranthene	24.94	252	2070m	0.08	ng	
28) Benzo(a)pyrene	25.27	252	915	0.28	ng	# 87
29) Dibenzo(a,h)anthracene	26.77	278	622	0.26	ng	# 69
30) Benzo(g,h,i)perylene	27.16	276	5387	0.19	ng	# 81

(#) = 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: BE089644.D

Acq: 20 Feb 2015 2:26

Instrument :

BNA_E

ClientSampleId :

MDL-06-W

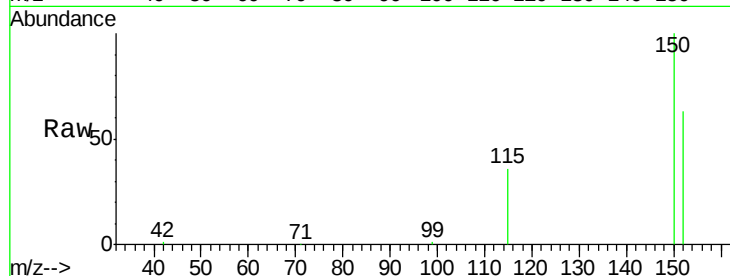
Tot Ion:152 Resp: 34679

Ion Ratio Lower Upper

152 100

150 157.8 122.4 183.6

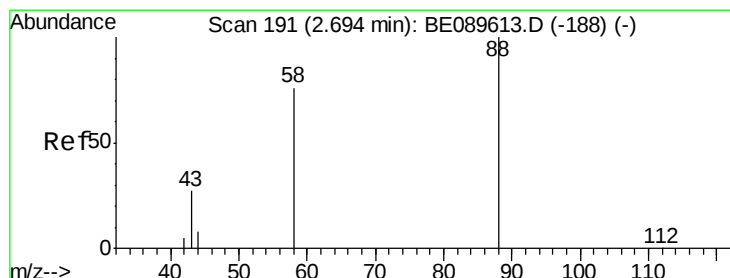
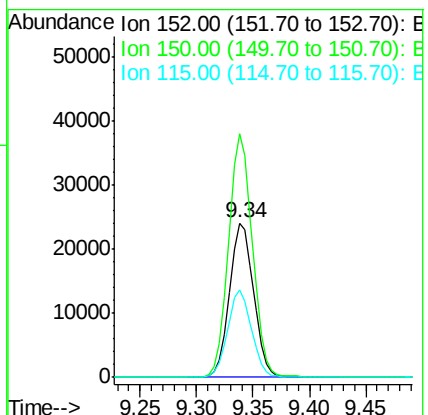
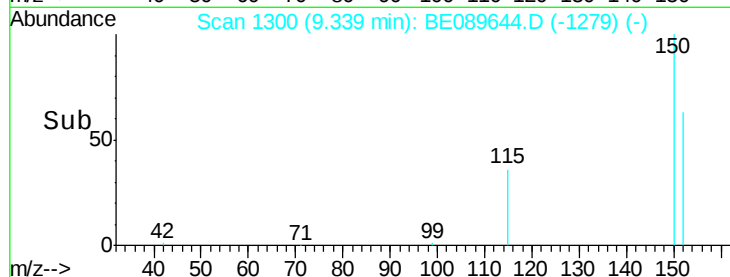
115 56.4 44.2 66.2



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: 0.14 ng

RT: 2.73 min Scan# 196

Delta R.T. 0.03 min

Lab File: BE089644.D

Acq: 20 Feb 2015 2:26

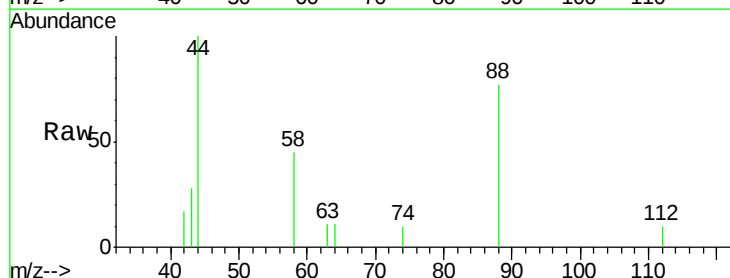
Tgt Ion: 88 Resp: 589

Ion Ratio Lower Upper

88 100

58 65.4 54.6 81.8

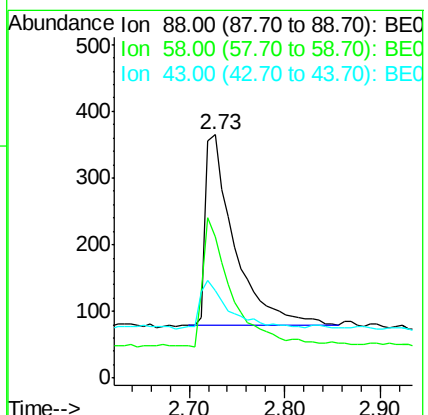
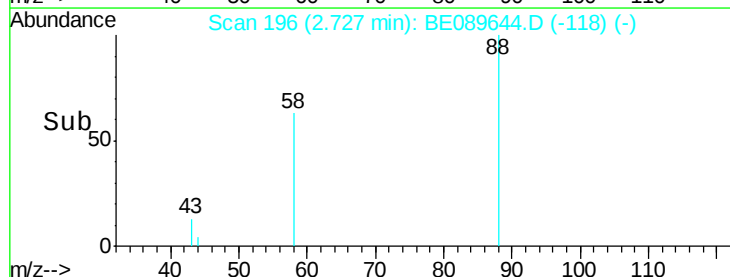
43 0.0 20.6 30.8#

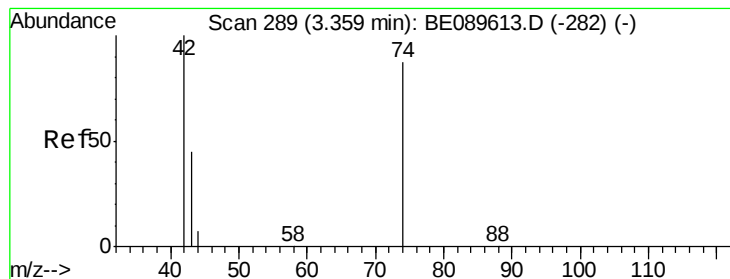


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



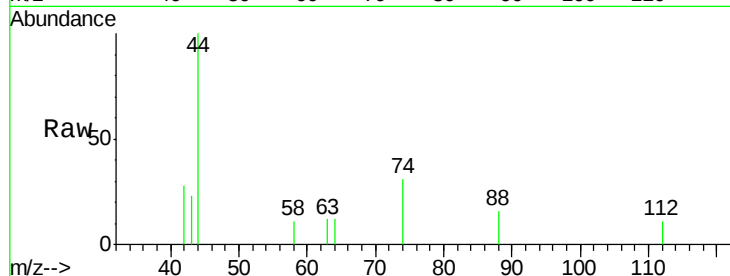


#3

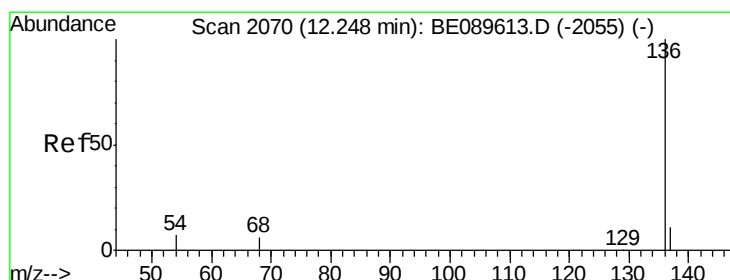
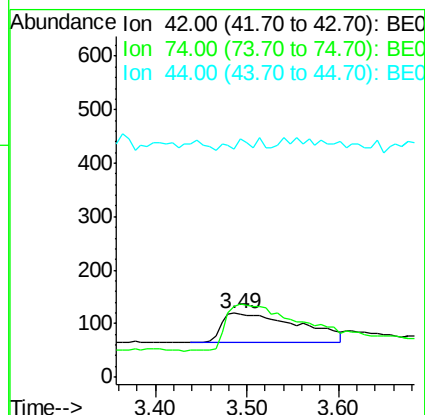
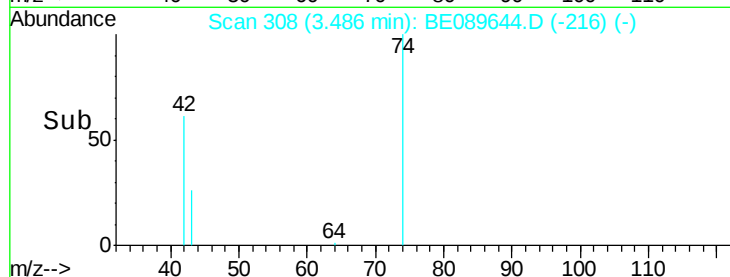
n-Nitrosodimethylamine
 Concen: 0.08 ng
 RT: 3.49 min Scan# 308
 Delta R.T. 0.13 min
 Lab File: BE089644.D
 Acq: 20 Feb 2015 2:26

Instrument :
 BNA_E
 ClientSampleId :
 MDL-06-W

Tot Ion: 42 Resp: 330
 Ion Ratio Lower Upper
 42 100
 74 178.8 121.4 182.0
 44 7.6 4.5 6.7#



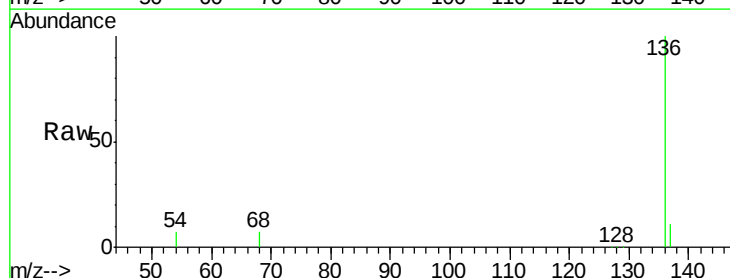
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



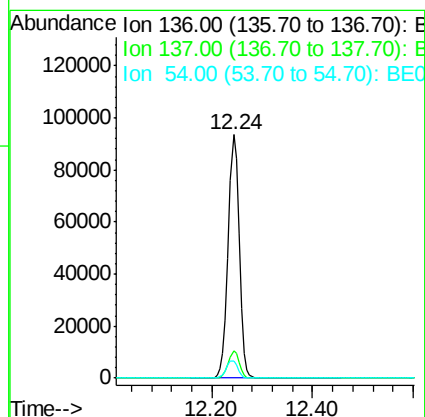
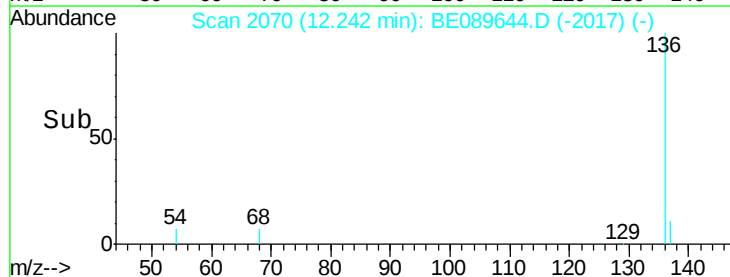
#4

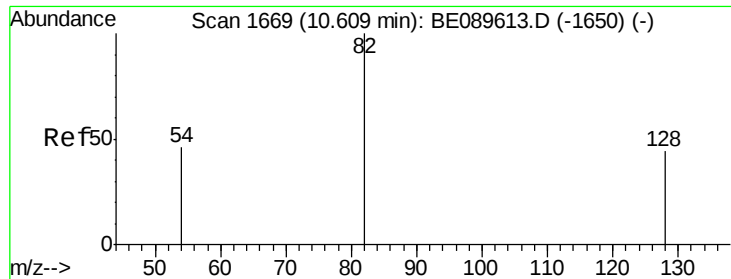
Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.24 min Scan# 2070
 Delta R.T. -0.01 min
 Lab File: BE089644.D
 Acq: 20 Feb 2015 2:26

Tgt Ion: 136 Resp: 138386
 Ion Ratio Lower Upper
 136 100
 137 11.0 8.9 13.3
 54 7.1 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: 10.70 ng

RT: 10.61 min Scan# 1669

Delta R.T. -0.00 min

Lab File: BE089644.D

Acq: 20 Feb 2015 2:26

Instrument :

BNA_E

ClientSampleId :

MDL-06-W

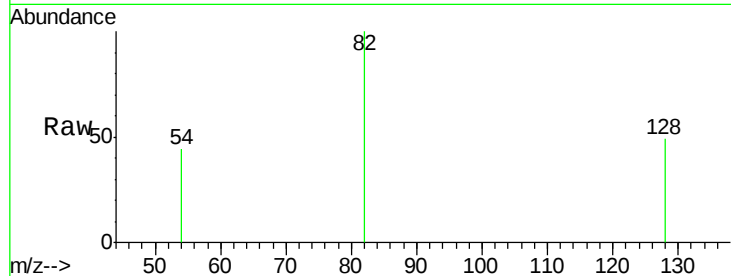
Tot Ion: 82 Resp: 64337

Ion Ratio Lower Upper

82 100

128 48.9 35.5 53.3

54 44.0 37.5 56.3

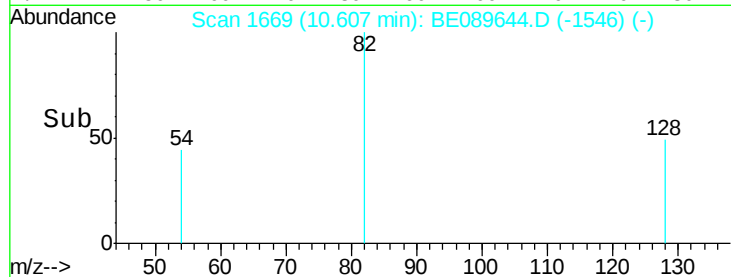


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0

Time--> 10.50 10.60 10.70

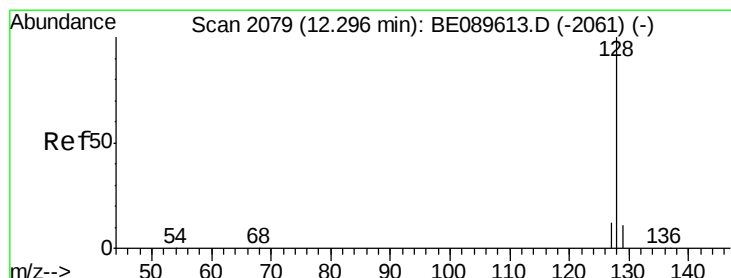


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0

Time--> 10.50 10.60 10.70



#6

Naphthalene

Concen: 0.15 ng

RT: 12.29 min Scan# 2079

Delta R.T. -0.01 min

Lab File: BE089644.D

Acq: 20 Feb 2015 2:26

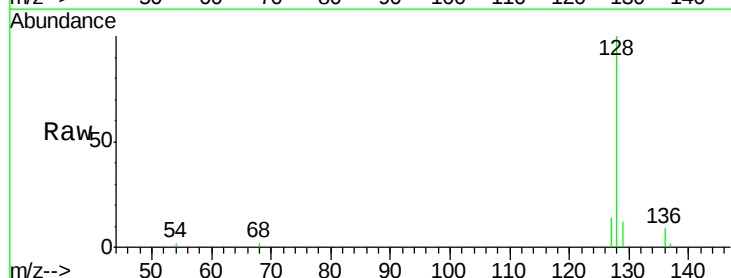
Tgt Ion: 128 Resp: 4710

Ion Ratio Lower Upper

128 100

129 12.3 8.9 13.3

127 14.1 9.8 14.8

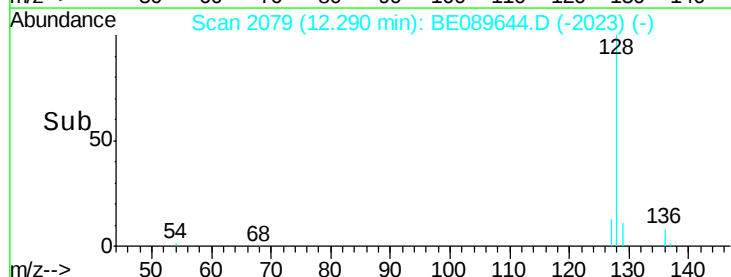


Abundance Ion 128.00 (127.70 to 128.70): BE0

Ion 129.00 (128.70 to 129.70): BE0

Ion 127.00 (126.70 to 127.70): BE0

Time--> 12.20 12.30 12.40



Abundance Ion 128.00 (127.70 to 128.70): BE0

Ion 129.00 (128.70 to 129.70): BE0

Ion 127.00 (126.70 to 127.70): BE0

Time--> 12.20 12.30 12.40



#7

2-Methylnaphthalene

Concen: 0.14 ng

RT: 13.95 min Scan# 2418

Delta R.T. 0.00 min

Lab File: BE089644.D

Acq: 20 Feb 2015 2:26

Instrument :

BNA_E

ClientSampleId :

MDL-06-W

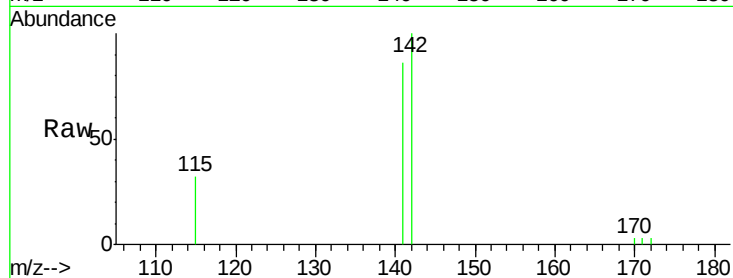
Tot Ion:142 Resp: 2636

Ion Ratio Lower Upper

142 100

141 86.4 68.3 102.5

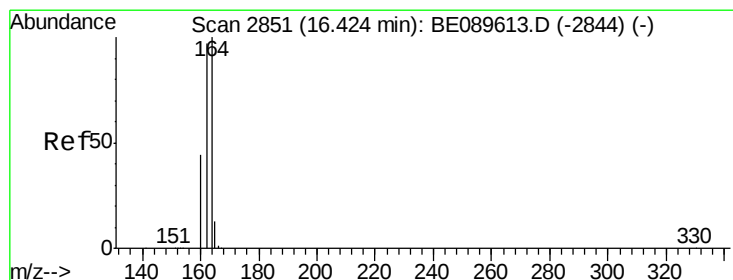
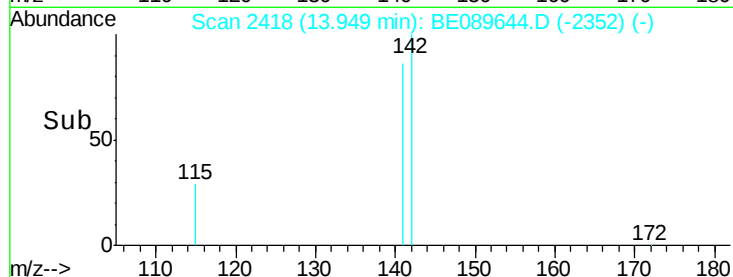
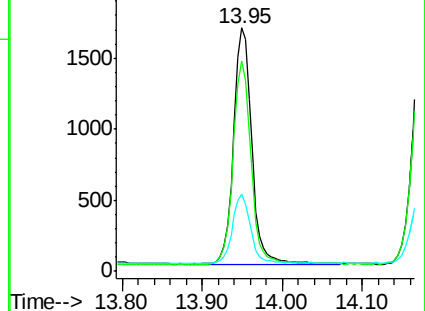
115 31.6 25.1 37.7



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: BE089644.D

Acq: 20 Feb 2015 2:26

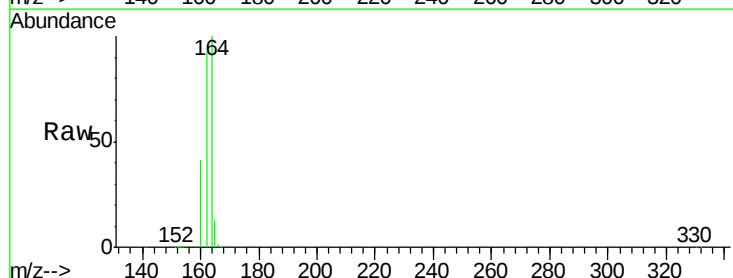
Tgt Ion:164 Resp: 69553

Ion Ratio Lower Upper

164 100

162 92.5 77.5 116.3

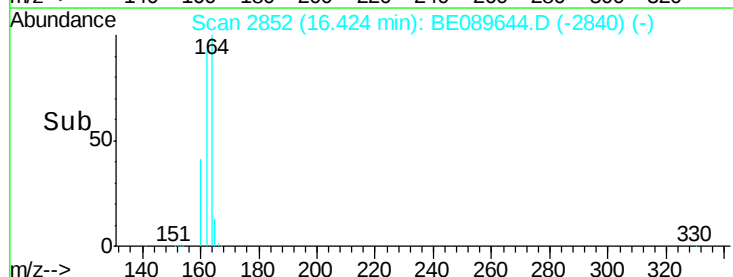
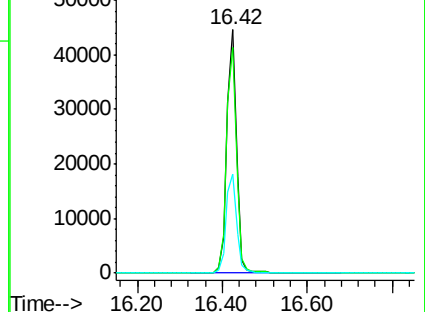
160 40.7 35.5 53.3



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

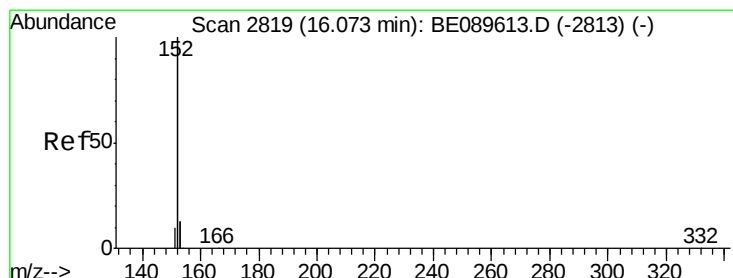
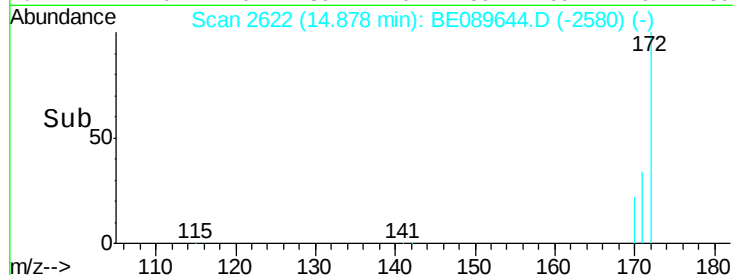
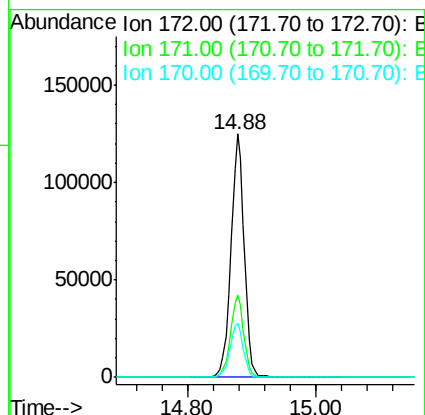
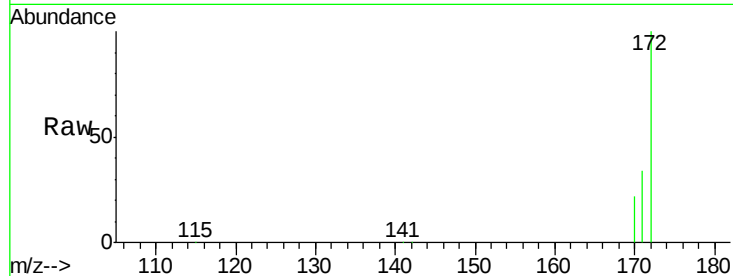




#9
2-Fluorobiphenyl
Concen: 9.63 ng
RT: 14.88 min Scan# 2622
Delta R.T. -0.00 min
Lab File: BE089644.D
Acq: 20 Feb 2015 2:26

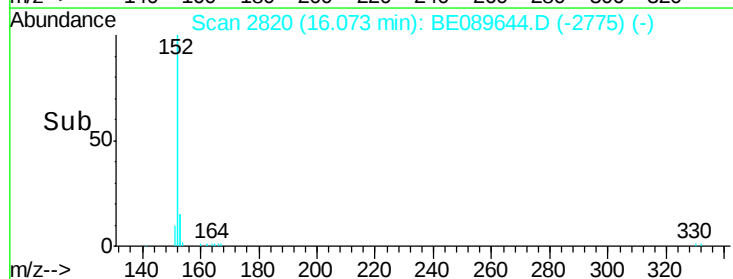
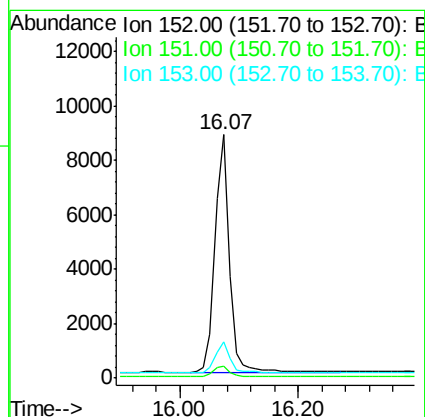
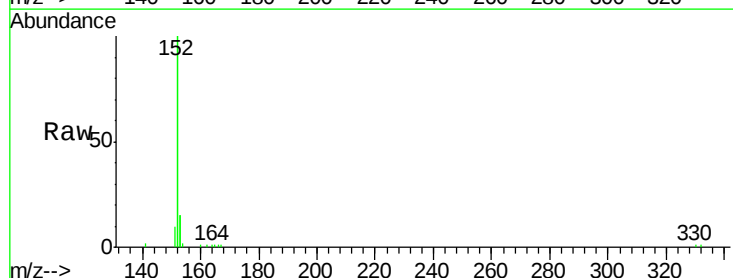
Instrument :
BNA_E
ClientSampleId :
MDL-06-W

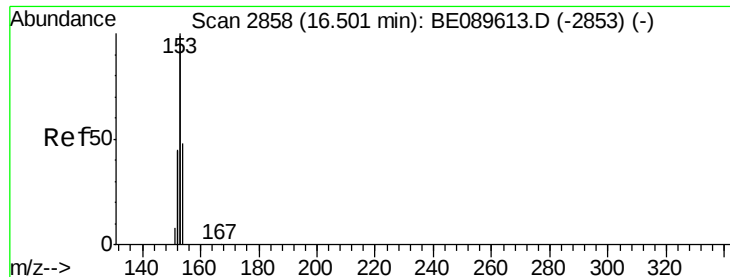
Tot Ion:172 Resp: 179402
Ion Ratio Lower Upper
172 100
171 33.9 26.9 40.3
170 22.4 17.4 26.0



#10
Acenaphthylene
Concen: 0.13 ng
RT: 16.07 min Scan# 2820
Delta R.T. 0.00 min
Lab File: BE089644.D
Acq: 20 Feb 2015 2:26

Tgt Ion:152 Resp: 14548
Ion Ratio Lower Upper
152 100
151 4.9 3.9 5.9
153 13.1 10.5 15.7





#11

Acenaphthene

Concen: 0.14 ng

RT: 16.49 min Scan# 2858

Delta R.T. -0.01 min

Lab File: BE089644.D

Acq: 20 Feb 2015 2:26

Instrument :

BNA_E

ClientSampleId :

MDL-06-W

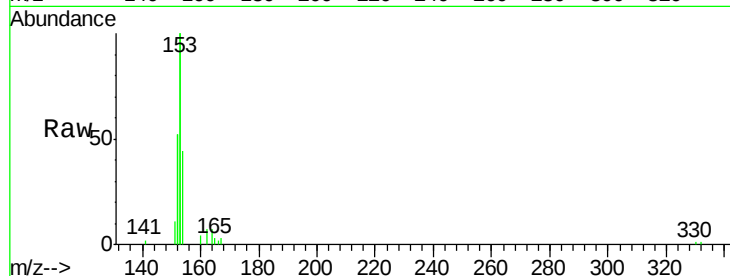
Tot Ion:154 Resp: 2604

Ion Ratio Lower Upper

154 100

153 447.1 348.9 523.3

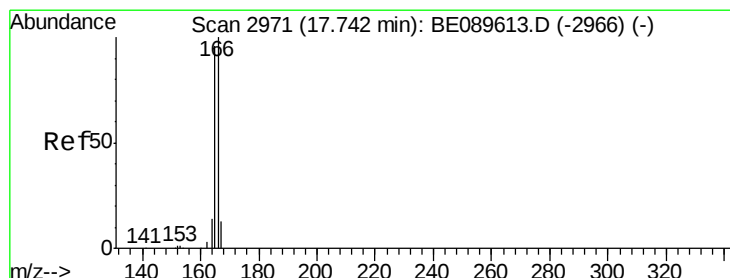
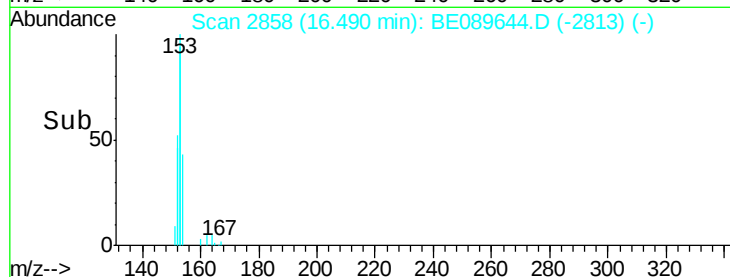
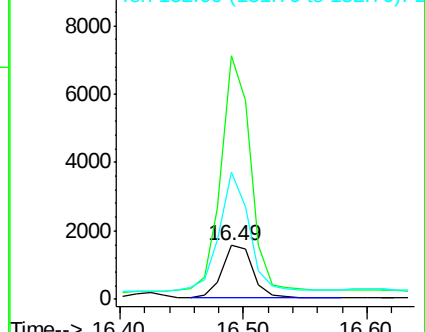
152 227.5 166.6 249.8



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: BE089644.D

Acq: 20 Feb 2015 2:26

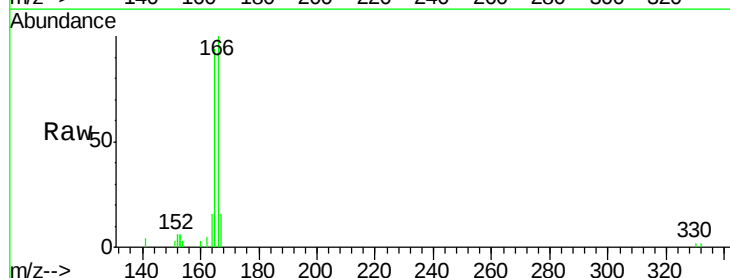
Tgt Ion:166 Resp: 3015

Ion Ratio Lower Upper

166 100

165 91.8 74.7 112.1

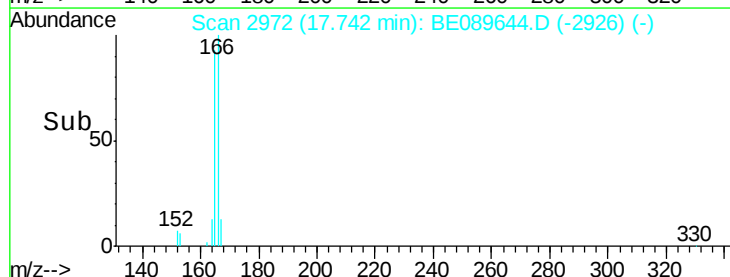
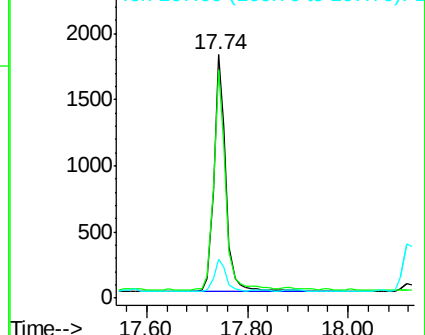
167 13.6 10.5 15.7

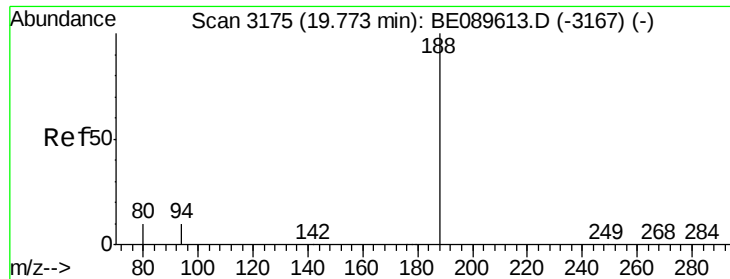


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

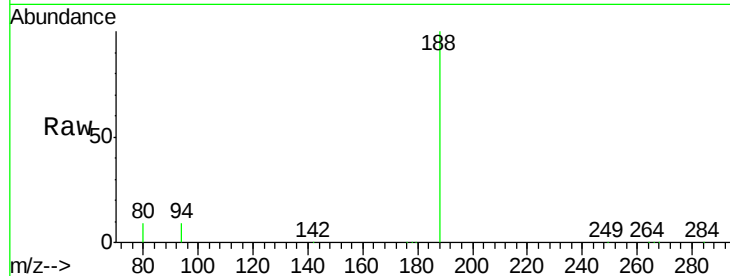




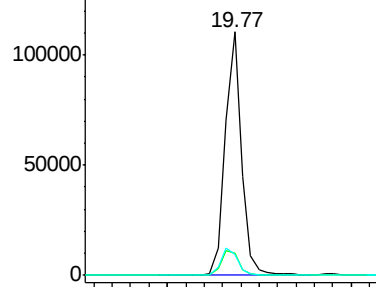
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3176
Delta R.T. 0.00 min
Lab File: BE089644.D
Acq: 20 Feb 2015 2:26

Instrument :
BNA_E
ClientSampled :
MDL-06-W

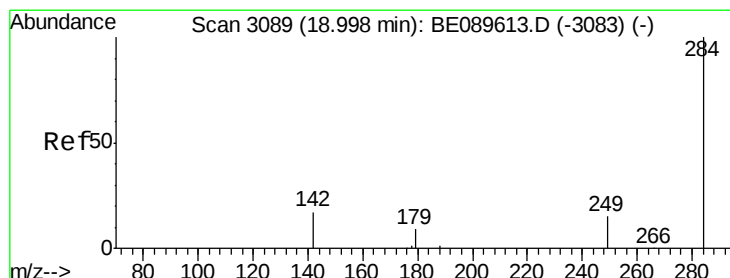
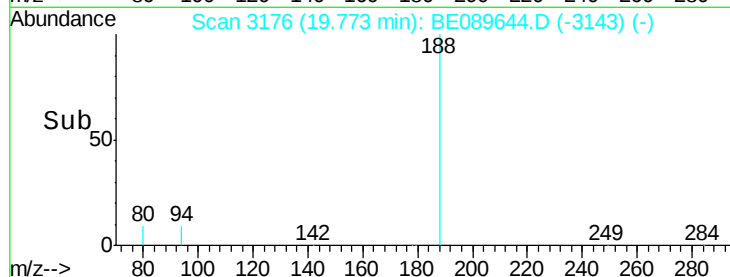
Tot Ion:188 Resp: 137608
Ion Ratio Lower Upper
188 100
94 9.1 8.2 12.4
80 8.8 8.1 12.1



Abundance Ion 188.00 (187.70 to 188.70): E
150000
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

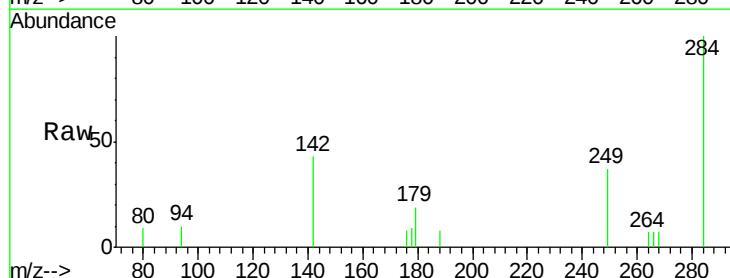


Time-->

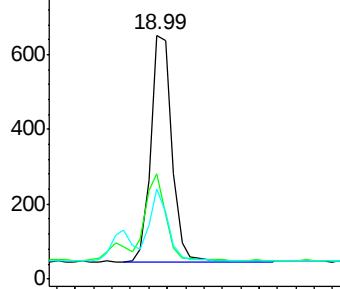


#14
Hexachlorobenzene
Concen: 0.16 ng
RT: 18.99 min Scan# 3089
Delta R.T. -0.01 min
Lab File: BE089644.D
Acq: 20 Feb 2015 2:26

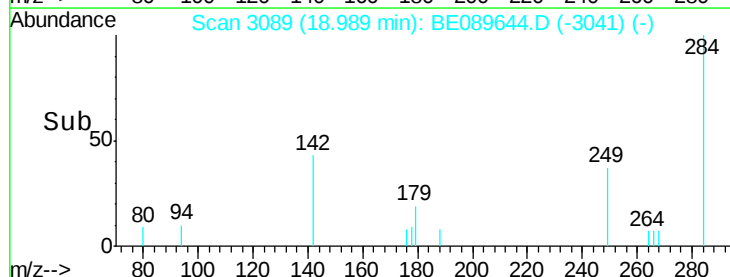
Tgt Ion:284 Resp: 964
Ion Ratio Lower Upper
284 100
142 43.8 32.3 48.5
249 26.6 22.3 33.5



Abundance Ion 283.80 (283.50 to 284.50): E
800
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E



Time-->





#15

Pentachlorophenol

Concen: 0.05 ng

RT: 19.44 min Scan# 3139

Delta R.T. 0.00 min

Lab File: BE089644.D

Acq: 20 Feb 2015 2:26

Instrument :

BNA_E

ClientSampled :

MDL-06-W

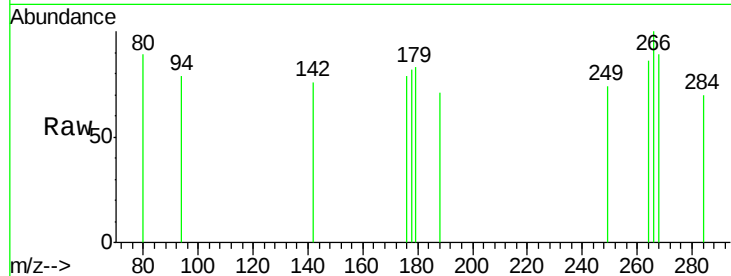
Tot Ion:266 Resp: 66

Ion Ratio Lower Upper

266 100

268 89.4 52.6 79.0#

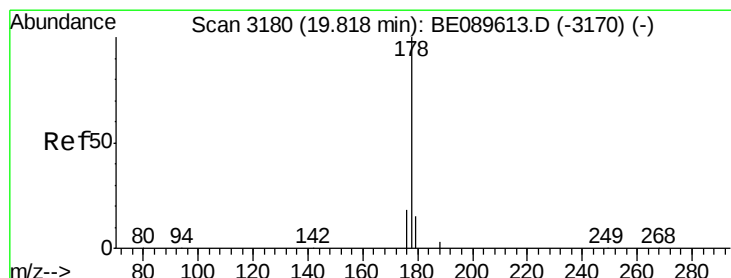
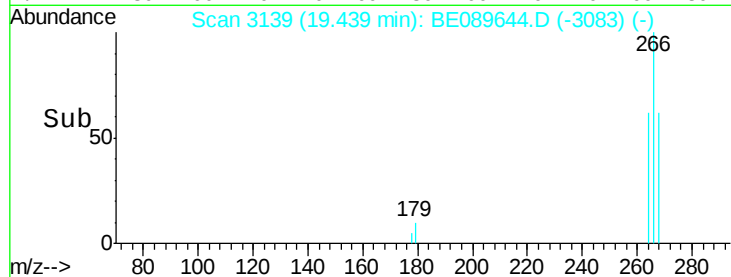
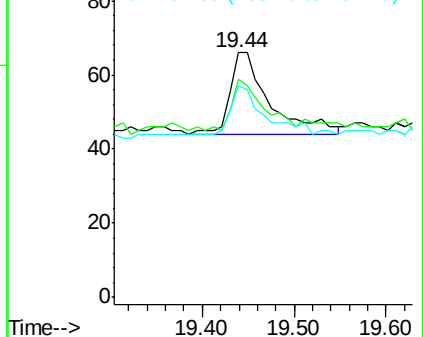
264 86.4 51.8 77.8#



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: 0.15 ng

RT: 19.81 min Scan# 3180

Delta R.T. -0.01 min

Lab File: BE089644.D

Acq: 20 Feb 2015 2:26

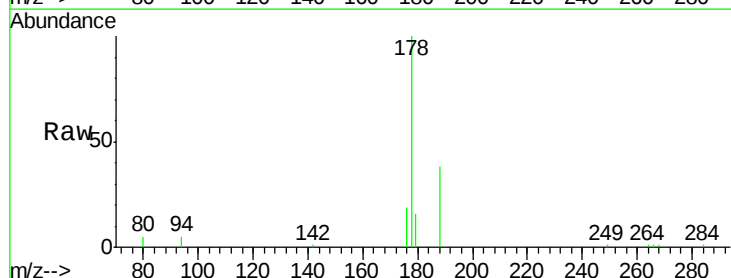
Tgt Ion:178 Resp: 5043

Ion Ratio Lower Upper

178 100

176 18.2 15.1 22.7

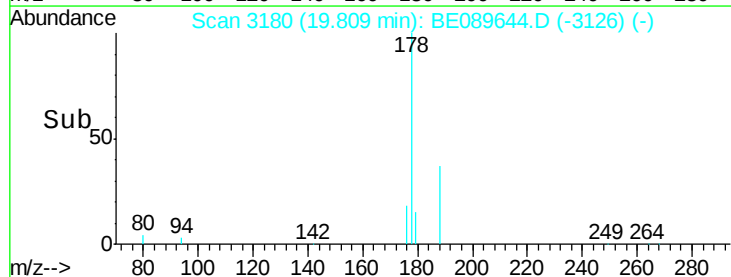
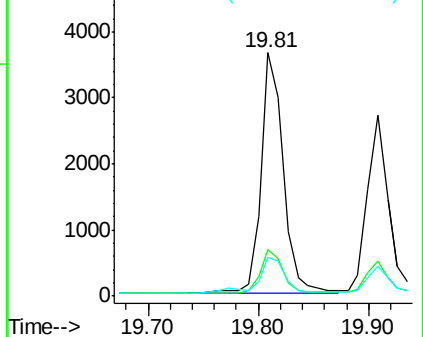
179 16.9 12.3 18.5



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

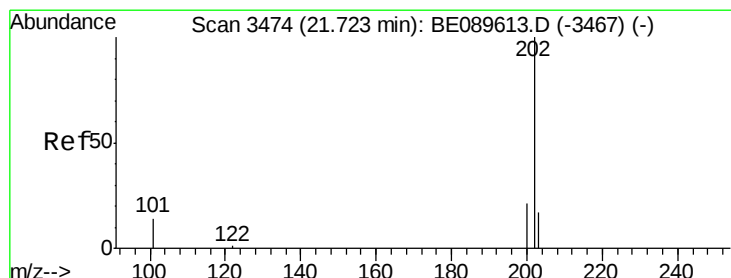
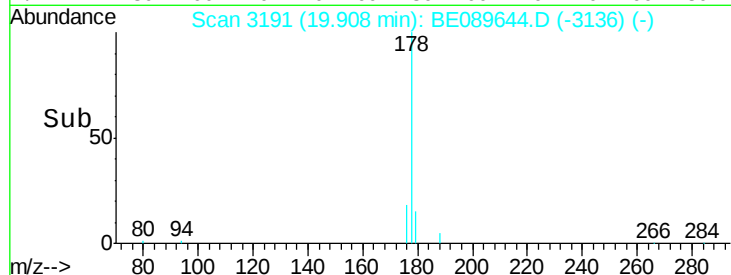
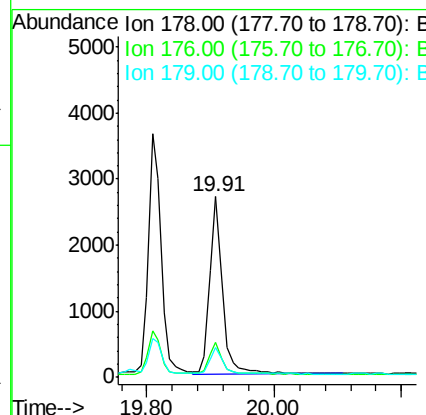
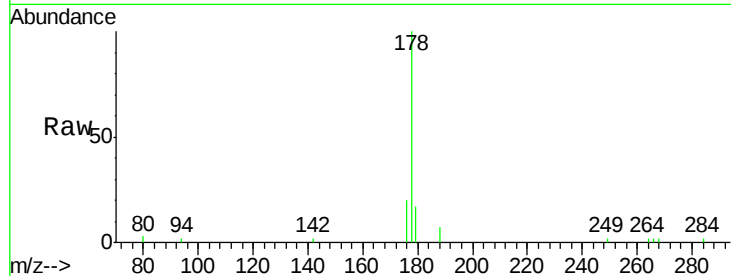




#17
 Anthracene
 Concen: 0.13 ng
 RT: 19.91 min Scan# 3191
 Delta R.T. 0.00 min
 Lab File: BE089644.D
 Acq: 20 Feb 2015 2:26

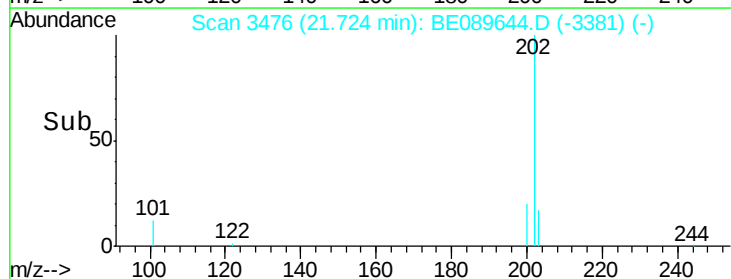
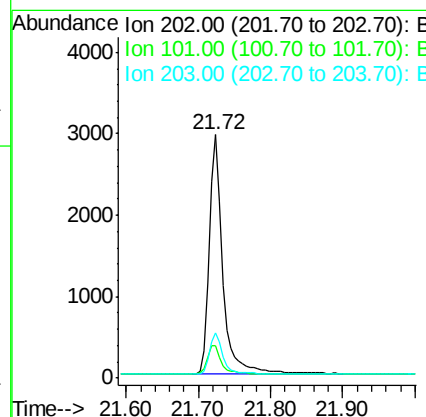
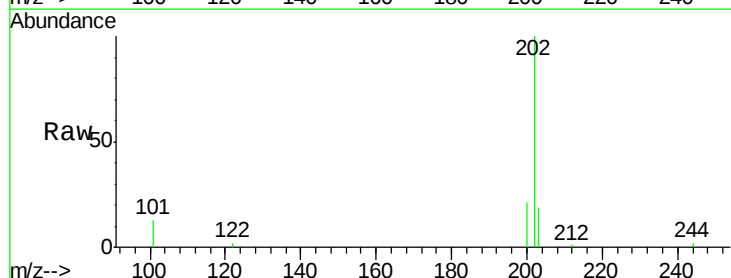
Instrument :
 BNA_E
 ClientSampleId :
 MDL-06-W

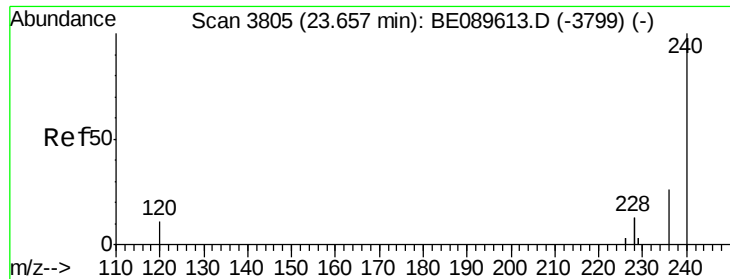
Tot Ion:178 Resp: 3728
 Ion Ratio Lower Upper
 178 100
 176 18.2 14.6 22.0
 179 14.2 12.3 18.5



#18
 Fluoranthene
 Concen: 0.12 ng
 RT: 21.72 min Scan# 3476
 Delta R.T. 0.00 min
 Lab File: BE089644.D
 Acq: 20 Feb 2015 2:26

Tgt Ion:202 Resp: 3863
 Ion Ratio Lower Upper
 202 100
 101 12.9 10.4 15.6
 203 17.5 13.9 20.9





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3807

Delta R.T. -0.00 min

Lab File: BE089644.D

Acq: 20 Feb 2015 2:26

Instrument :

BNA_E

ClientSampleId :

MDL-06-W

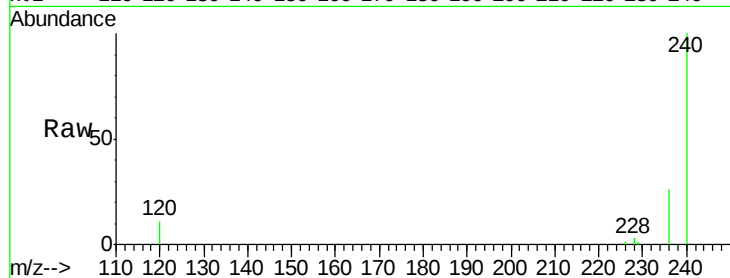
Tot Ion:240 Resp: 122310

Ion Ratio Lower Upper

240 100

120 11.1 9.0 13.4

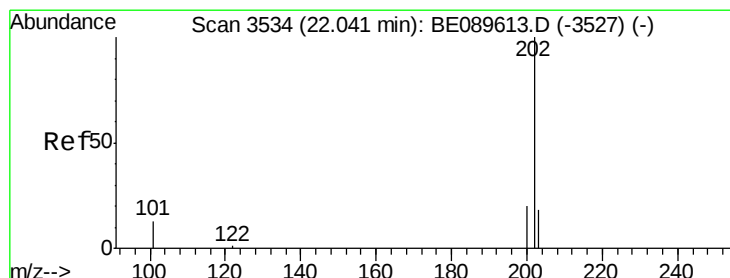
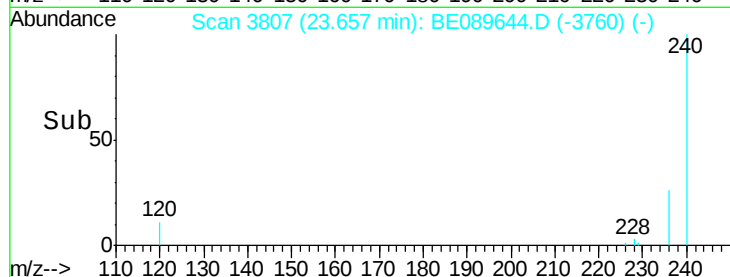
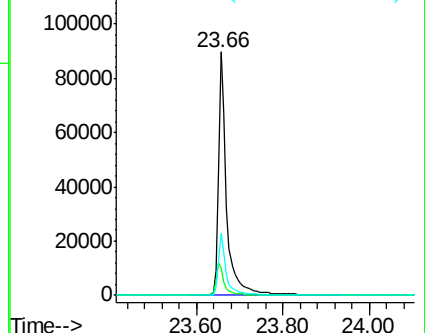
236 25.6 21.0 31.6



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: BE089644.D

Acq: 20 Feb 2015 2:26

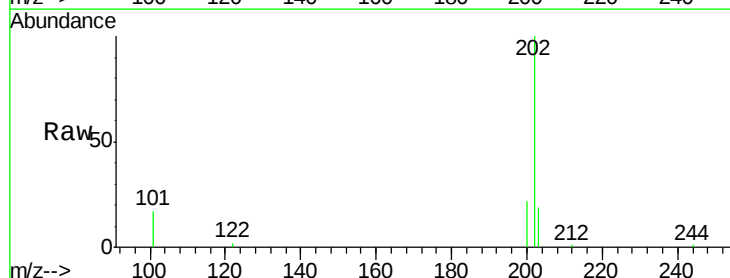
Tgt Ion:202 Resp: 4135

Ion Ratio Lower Upper

202 100

200 20.3 16.3 24.5

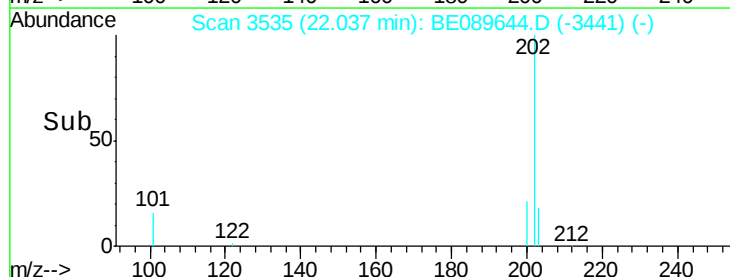
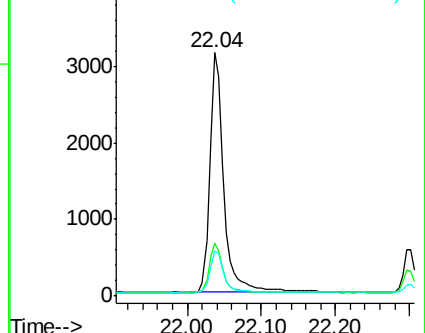
203 17.6 13.8 20.8



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: 12.30 ng

RT: 22.30 min Scan# 3585

Delta R.T. 0.00 min

Lab File: BE089644.D

Acq: 20 Feb 2015 2:26

Instrument :

BNA_E

ClientSampleId :

MDL-06-W

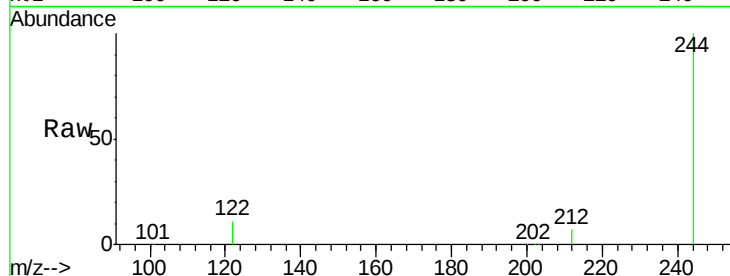
Tot Ion:244 Resp: 216259

Ion Ratio Lower Upper

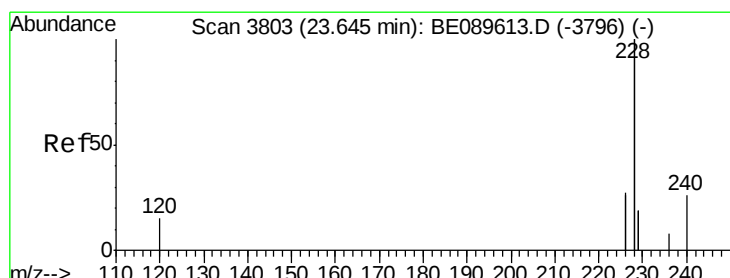
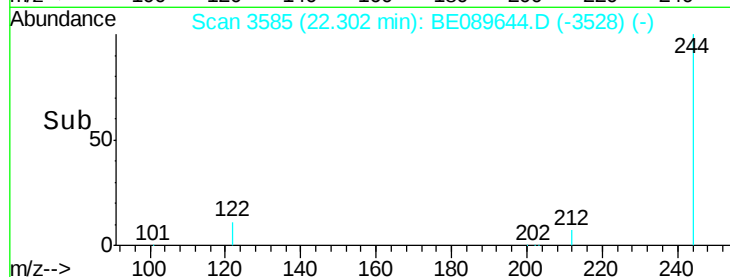
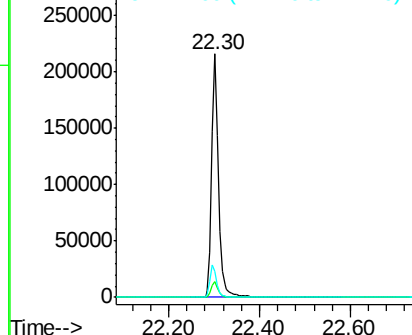
244 100

212 6.5 5.8 8.8

122 10.7 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: 0.11 ng

RT: 23.65 min Scan# 3806

Delta R.T. 0.01 min

Lab File: BE089644.D

Acq: 20 Feb 2015 2:26

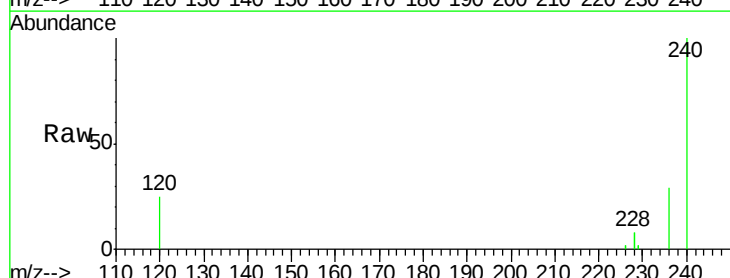
Tgt Ion:228 Resp: 12035

Ion Ratio Lower Upper

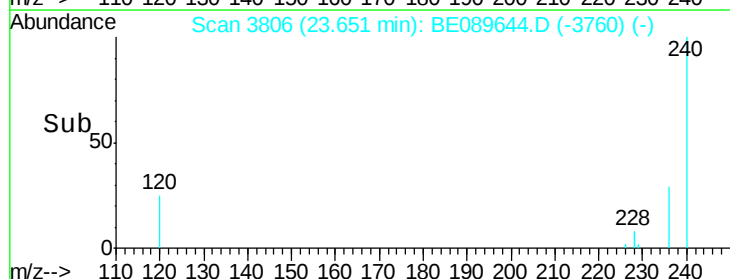
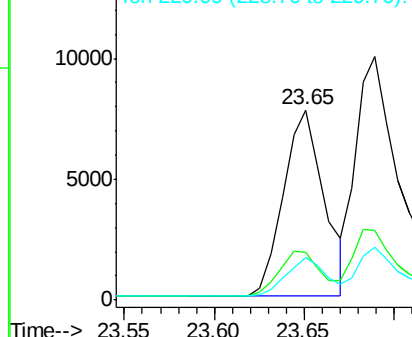
228 100

226 24.9 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: 0.17 ng

RT: 23.69 min Scan# 3812

Delta R.T. -0.00 min

Lab File: BE089644.D

Acq: 20 Feb 2015 2:26

Instrument :

BNA_E

ClientSampleId :

MDL-06-W

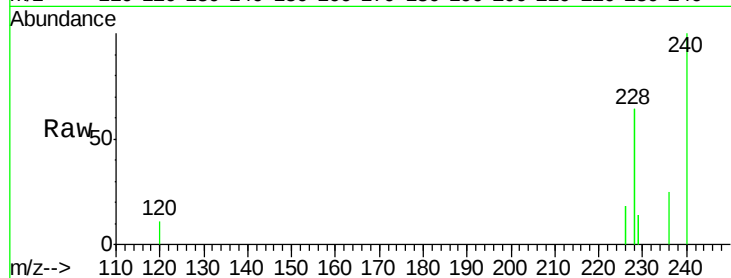
Tot Ion:228 Resp: 21003

Ion Ratio Lower Upper

228 100

226 28.7 22.2 33.4

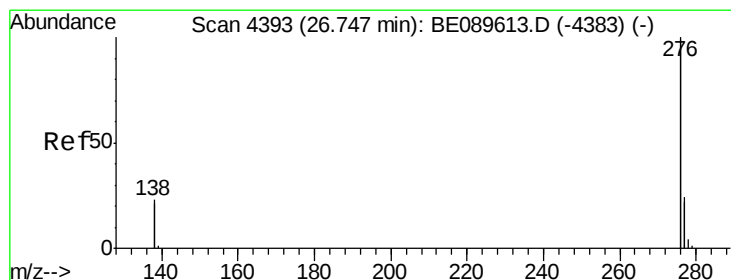
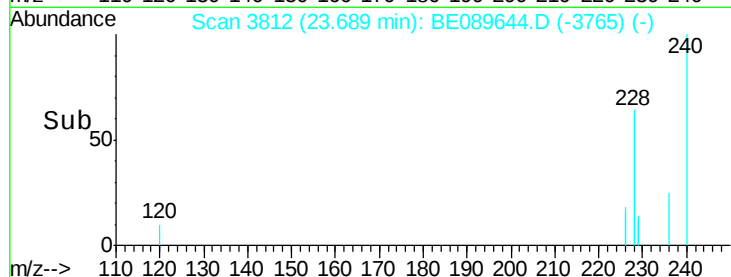
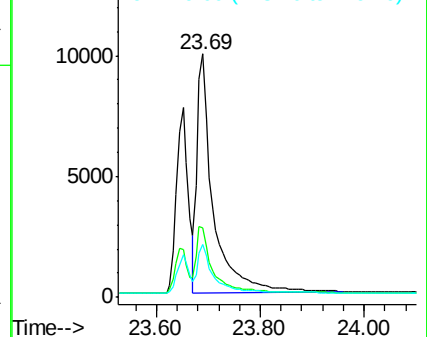
229 21.7 16.0 24.0



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: 0.21 ng

RT: 26.75 min Scan# 4395

Delta R.T. 0.00 min

Lab File: BE089644.D

Acq: 20 Feb 2015 2:26

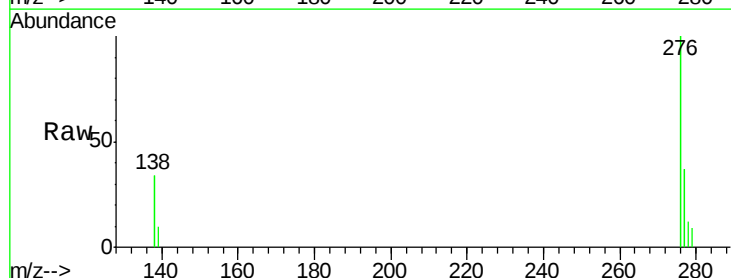
Tgt Ion:276 Resp: 3697

Ion Ratio Lower Upper

276 100

138 22.6 21.4 32.2

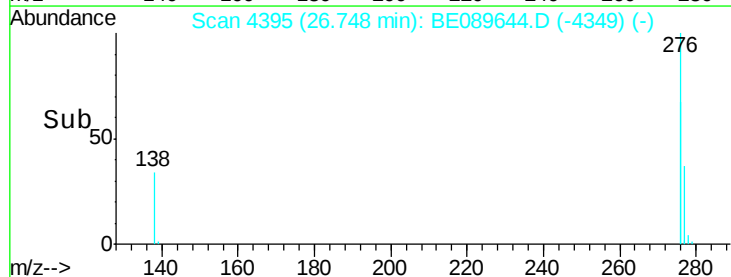
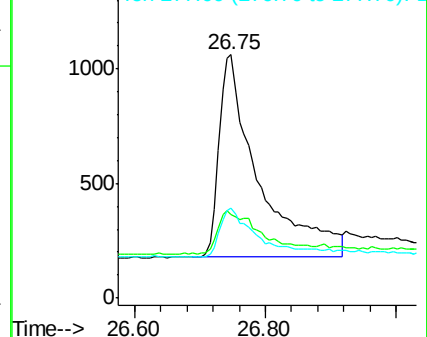
277 21.9 19.9 29.9

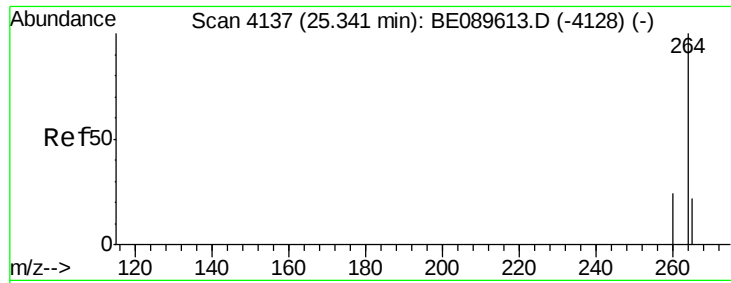


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

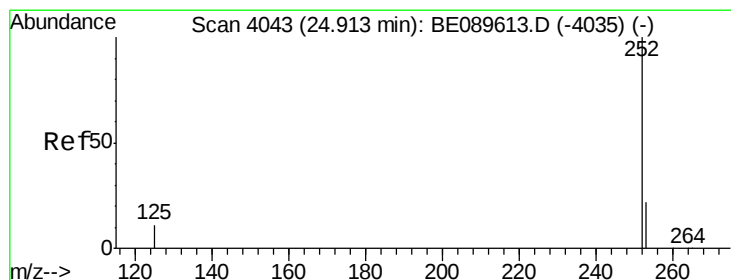
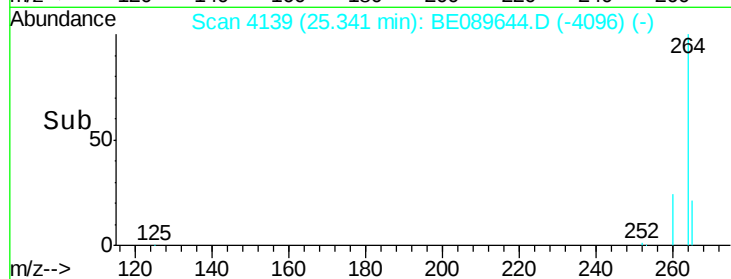
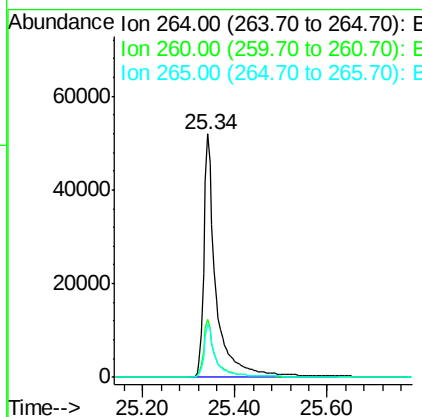
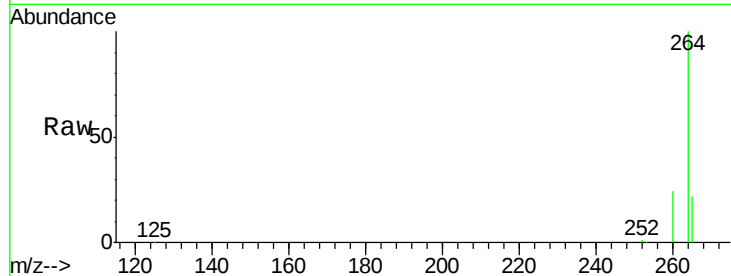




#25
Pervlene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4139
Delta R.T. -0.00 min
Lab File: BE089644.D
Acq: 20 Feb 2015 2:26

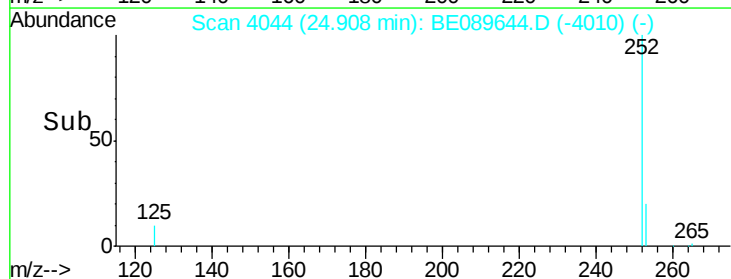
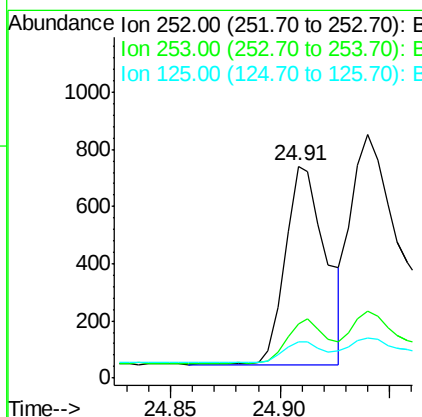
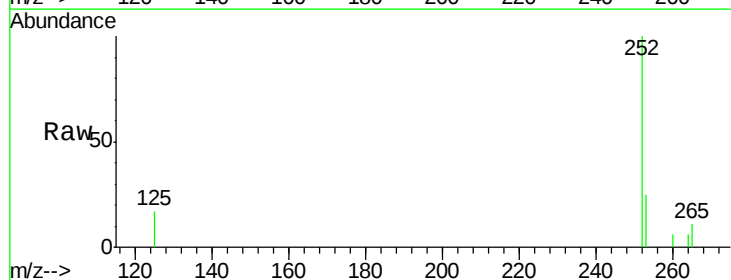
Instrument :
BNA_E
ClientSampleId :
MDL-06-W

Tot Ion:264 Resp: 95384
Ion Ratio Lower Upper
264 100
260 23.6 19.0 28.6
265 21.5 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: BE089644.D
Acq: 20 Feb 2015 2:26

Tgt Ion:252 Resp: 895
Ion Ratio Lower Upper
252 100
253 25.5 17.6 26.4
125 17.1 8.8 13.2#





#27

Benzo(k)fluoranthene

Concen: 0.08 ng m

RT: 24.94 min Scan# 4051

Delta R.T. -0.00 min

Lab File: BE089644.D

Acq: 20 Feb 2015 2:26

Instrument :

BNA_E

ClientSampleId :

MDL-06-W

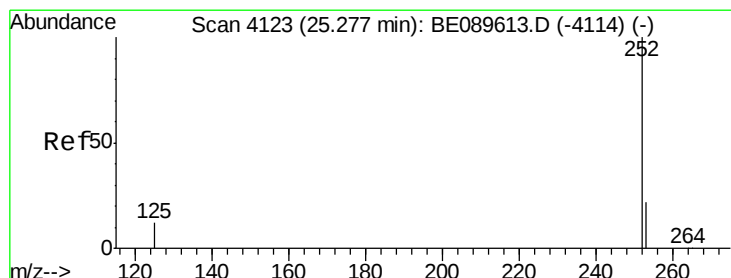
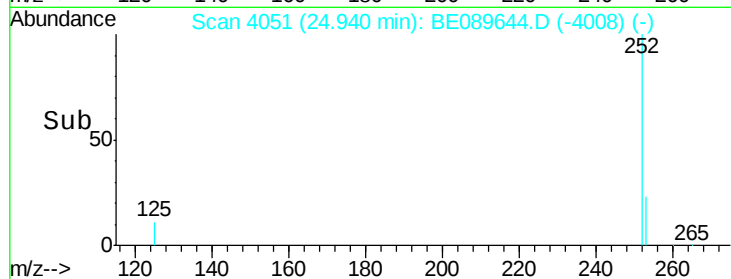
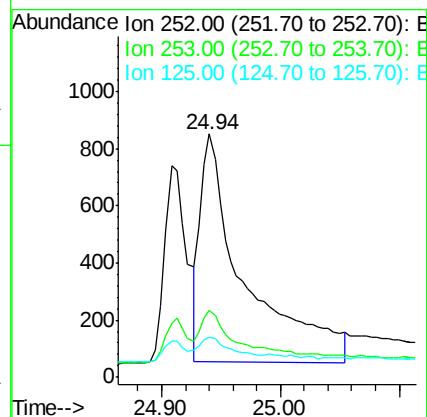
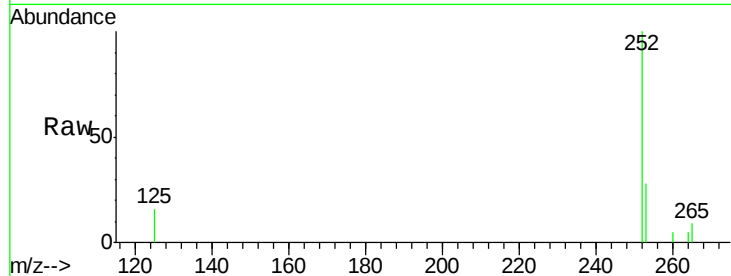
Tot Ion:252 Resp: 2070

Ion Ratio Lower Upper

252 100

253 27.7 17.7 26.5#

125 16.2 8.8 13.2#



#28

Benzo(a)pyrene

Concen: 0.28 ng

RT: 25.27 min Scan# 4124

Delta R.T. -0.00 min

Lab File: BE089644.D

Acq: 20 Feb 2015 2:26

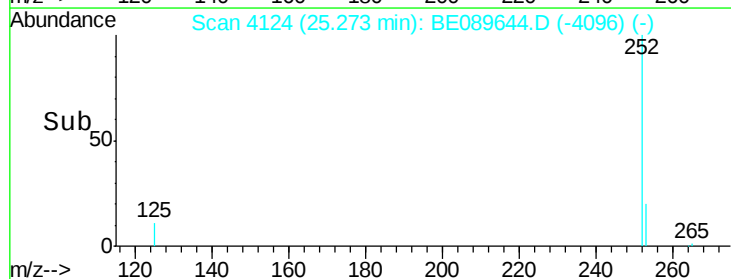
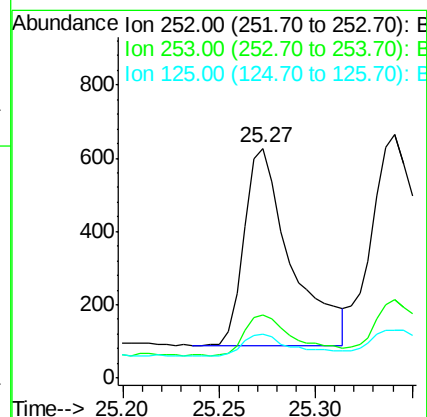
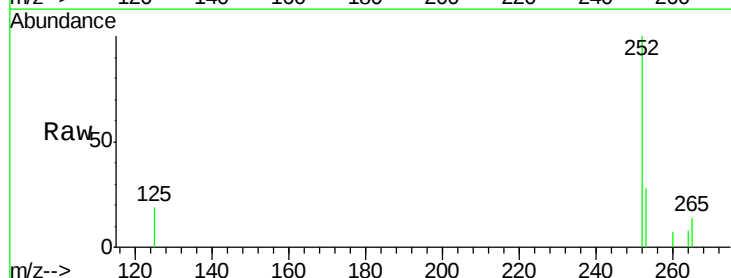
Tgt Ion:252 Resp: 915

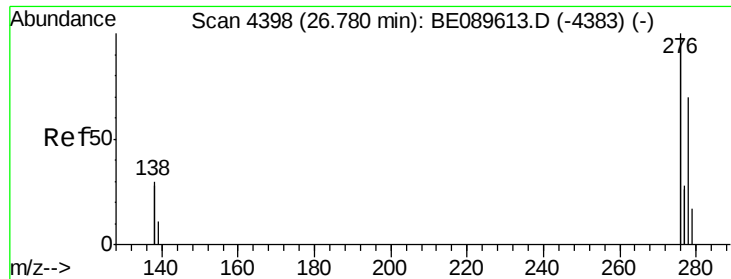
Ion Ratio Lower Upper

252 100

253 27.6 18.1 27.1#

125 19.3 9.6 14.4#





#29

Dibenzo(a,h)anthracene

Concen: 0.26 ng

RT: 26.77 min Scan# 4399

Delta R.T. -0.01 min

Lab File: BE089644.D

Acq: 20 Feb 2015 2:26

Instrument :

BNA_E

ClientSampleId :

MDL-06-W

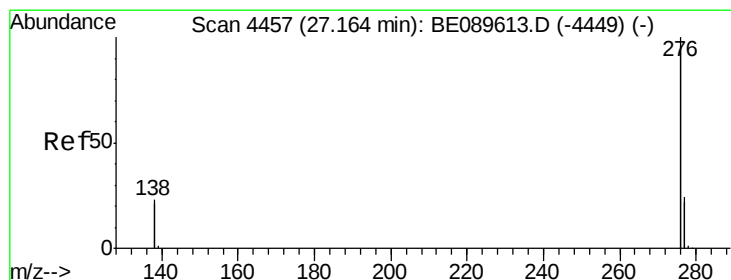
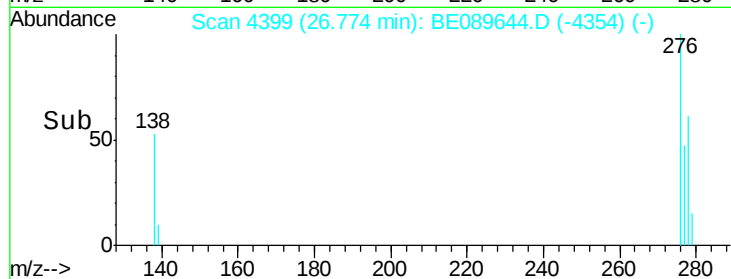
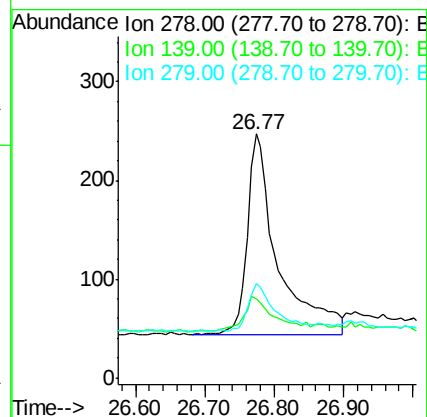
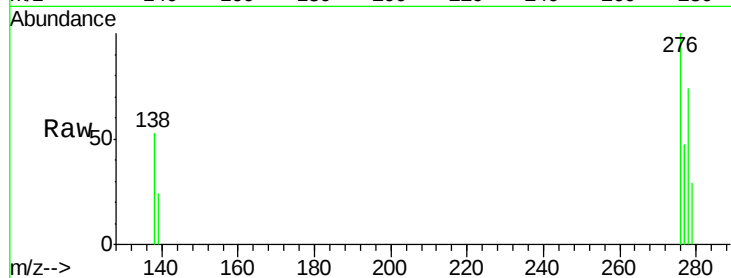
Tot Ion:278 Resp: 622

Ion Ratio Lower Upper

278 100

139 32.4 13.7 20.5#

279 38.9 19.7 29.5#



#30

Benzo(g,h,i)perylene

Concen: 0.19 ng

RT: 27.16 min Scan# 4458

Delta R.T. -0.01 min

Lab File: BE089644.D

Acq: 20 Feb 2015 2:26

Tgt Ion:276 Resp: 5387

Ion Ratio Lower Upper

276 100

277 32.9 19.1 28.7#

138 33.5 18.7 28.1#

