

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021015\
 Data File : BE089562.D
 Acq On : 10 Feb 2015 23:39
 Operator : TP/IZ
 Sample : MDL-01-W
 Misc : MDL-WATER-0.1/0.2
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-01-W

Quant Time: Feb 11 02:34:40 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE021015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 11 01:27:13 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.41	152	65062	5.00	ng	0.00
2) Naphthalene-d8	12.32	136	247801	5.00	ng	0.00
6) Acenaphthene-d10	16.50	164	117158	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	207530	5.00	ng	0.00
16) Chrysene-d12	23.71	240	239868	5.00	ng	0.00
22) Perylene-d12	25.40	264	240250	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.68	82	153143	9.64	ng	0.00
7) 2-Fluorobiphenyl	14.95	172	231379	7.29	ng	0.00
18) Terphenyl-d14	22.36	244	281101	9.41	ng	0.00

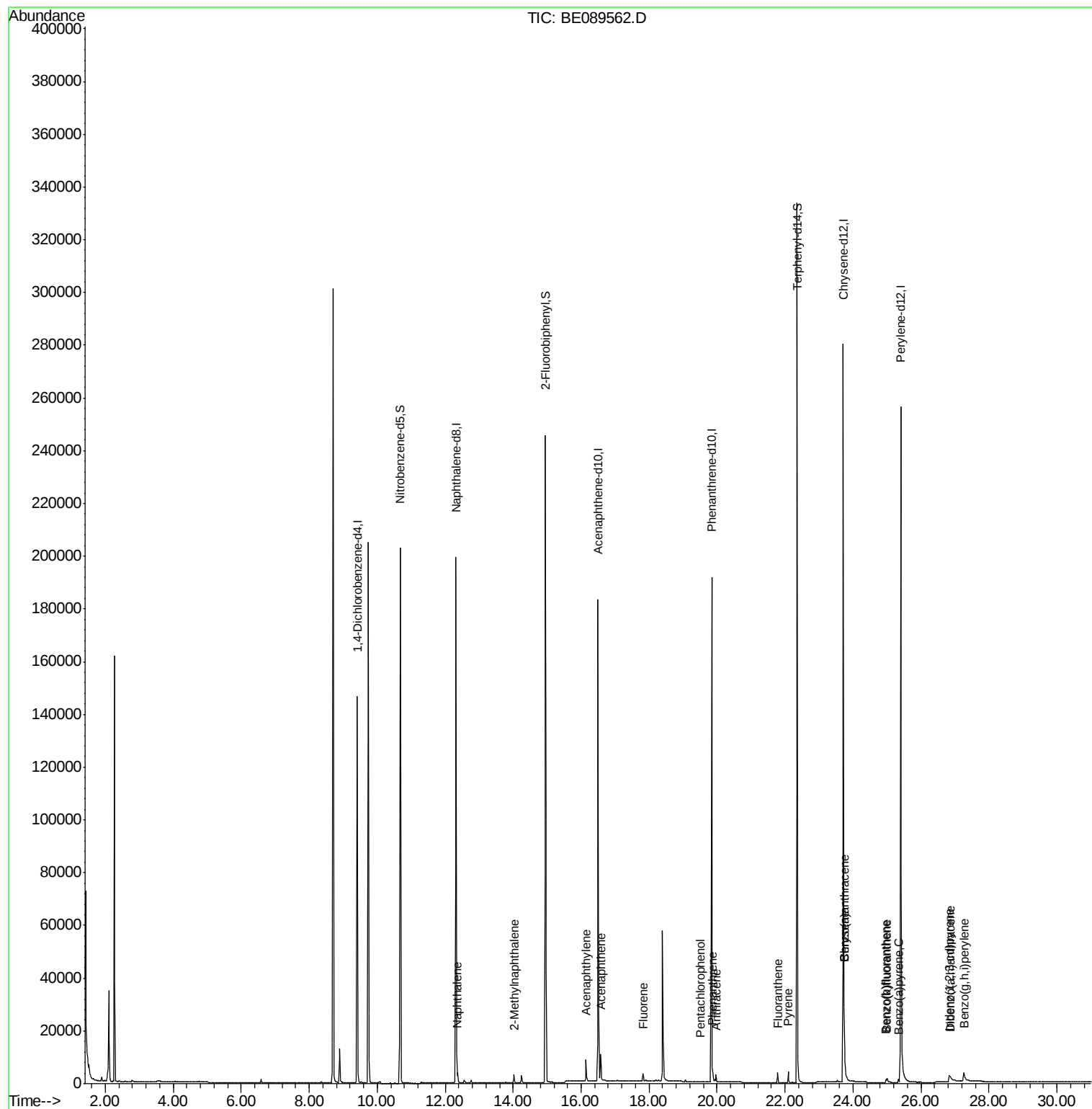
Target Compounds						Qvalue
4) Naphthalene	12.37	128	4185	0.08	ng	# 95
5) 2-Methylnaphthalene	14.03	142	2180	0.07	ng	99
8) Acenaphthylene	16.15	152	11006	0.06	ng	99
9) Acenaphthene	16.58	154	1961	0.06	ng	96
10) Fluorene	17.83	166	2141	0.06	ng	98
12) Pentachlorophenol	19.51	266	57	0.35	ng	# 83
13) Phenanthrene	19.88	178	3630	0.07	ng	99
14) Anthracene	19.97	178	2881	0.07	ng	99
15) Fluoranthene	21.78	202	3017	0.06	ng	98
17) Pyrene	22.10	202	3306	0.07	ng	99
19) Benzo(a)anthracene	23.74	228	17123	0.09	ng	96
20) Chrysene	23.74	228	17123	0.08	ng	99
21) Indeno(1,2,3-cd)pyrene	26.83	276	7229	0.06	ng	96
23) Benzo(b)fluoranthene	24.97	252	1376	0.26	ng	# 89
24) Benzo(k)fluoranthene	25.00	252	3103	0.05	ng	# 94
25) Benzo(a)pyrene	25.34	252	1657	0.22	ng	# 89
26) Dibenzo(a,h)anthracene	26.87	278	1311	0.15	ng	# 79
27) Benzo(g,h,i)perylene	27.26	276	8429	0.04	ng	# 82

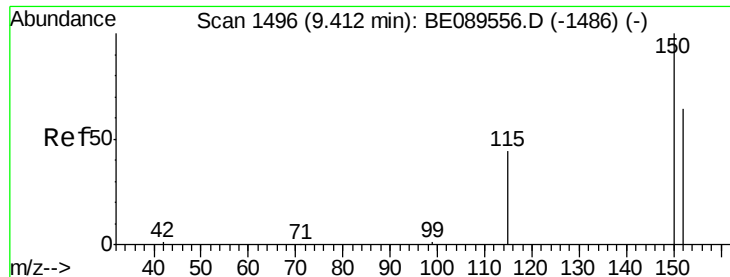
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.41 min Scan# 1496

Delta R.T. -0.00 min

Lab File: BE089562.D

Acq: 10 Feb 2015 23:39

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

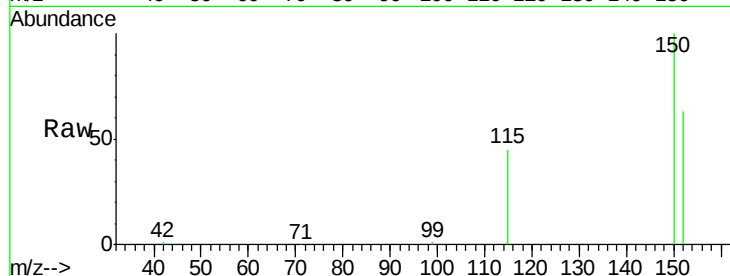
Tgt Ion:152 Resp: 65062

Ion Ratio Lower Upper

152 100

150 159.8 125.6 188.4

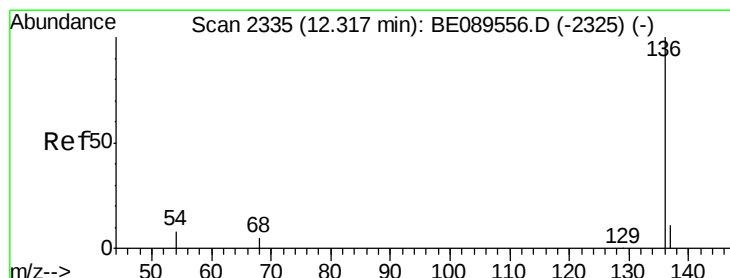
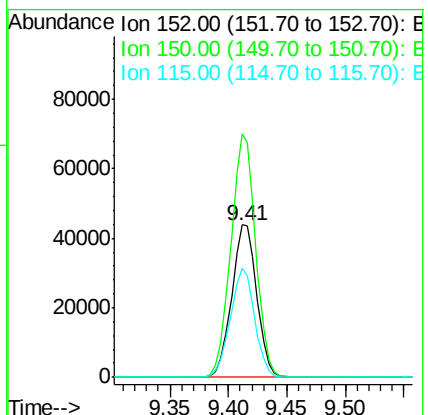
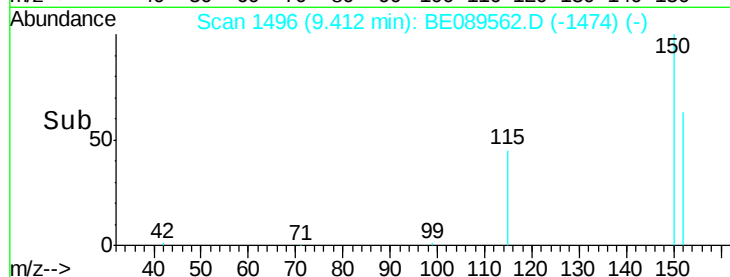
115 71.6 55.8 83.6



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

Naphthalene-d8

Concen: 5.00 ng

RT: 12.32 min Scan# 2336

Delta R.T. 0.00 min

Lab File: BE089562.D

Acq: 10 Feb 2015 23:39

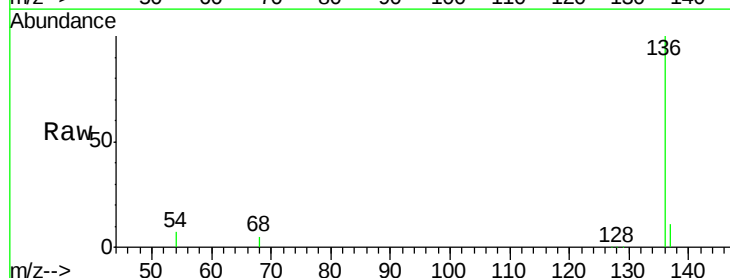
Tgt Ion:136 Resp: 247801

Ion Ratio Lower Upper

136 100

137 10.8 8.6 13.0

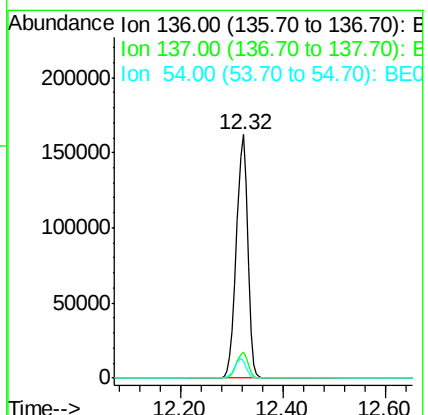
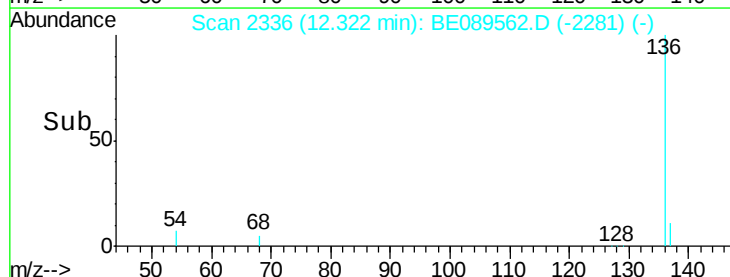
54 7.1 6.6 9.8

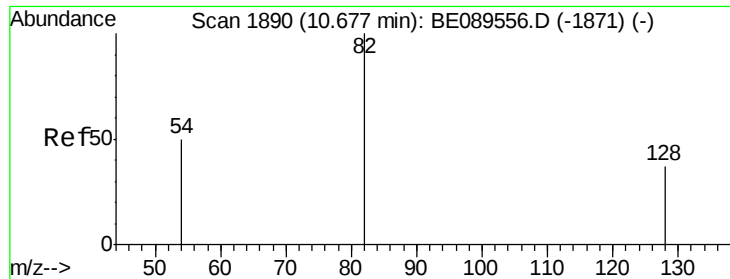


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#3

Nitrobenzene-d5

Concen: 9.64 ng

RT: 10.68 min Scan# 1892

Delta R.T. 0.00 min

Lab File: BE089562.D

Acq: 10 Feb 2015 23:39

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

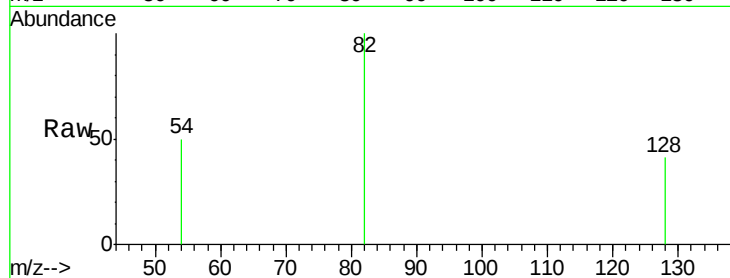
Tgt Ion: 82 Resp: 153143

Ion Ratio Lower Upper

82 100

128 41.0 30.4 45.6

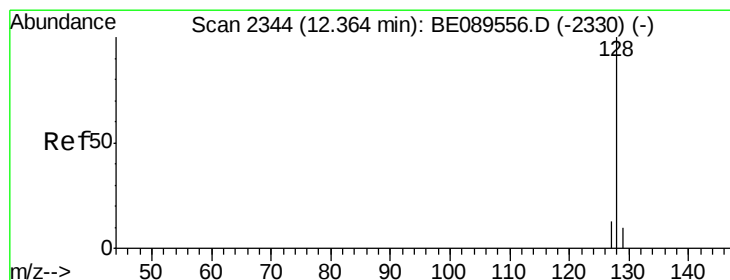
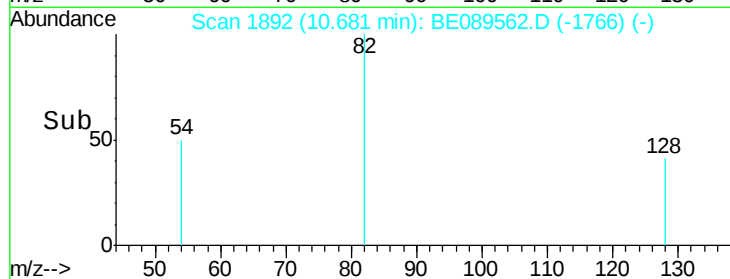
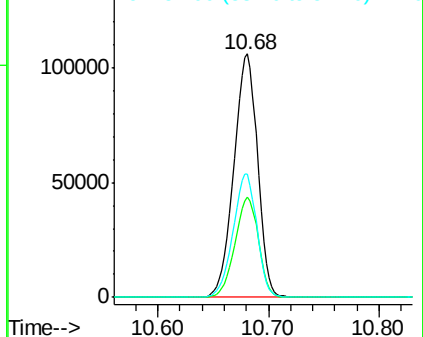
54 50.4 40.7 61.1



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



#4

Naphthalene

Concen: 0.08 ng

RT: 12.37 min Scan# 2345

Delta R.T. 0.00 min

Lab File: BE089562.D

Acq: 10 Feb 2015 23:39

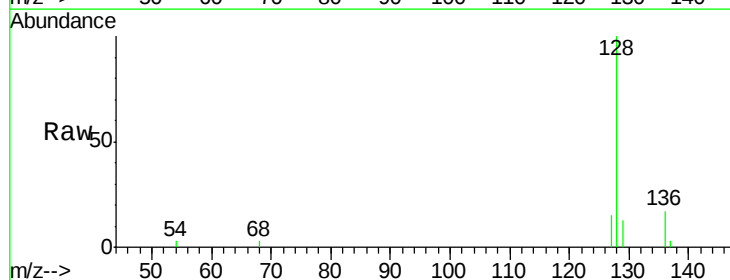
Tgt Ion: 128 Resp: 4185

Ion Ratio Lower Upper

128 100

129 13.0 8.5 12.7#

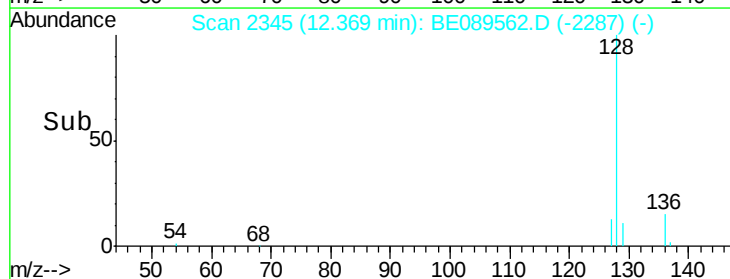
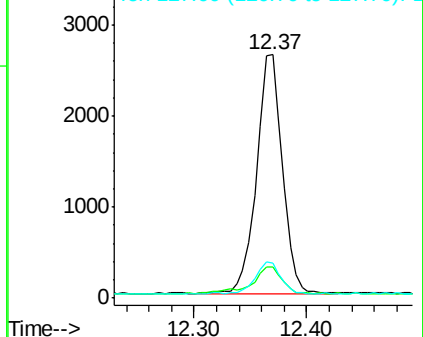
127 14.5 10.6 15.8

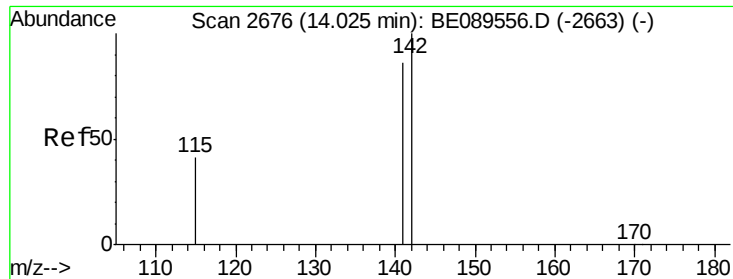


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#5

2-Methylnaphthalene

Concen: 0.07 ng

RT: 14.03 min Scan# 2676

Delta R.T. 0.00 min

Lab File: BE089562.D

Acq: 10 Feb 2015 23:39

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

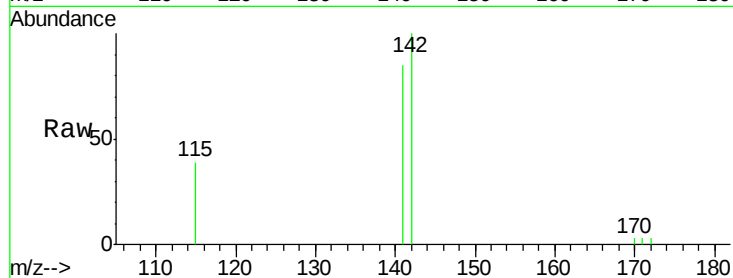
Tgt Ion:142 Resp: 2180

Ion Ratio Lower Upper

142 100

141 85.0 68.6 102.8

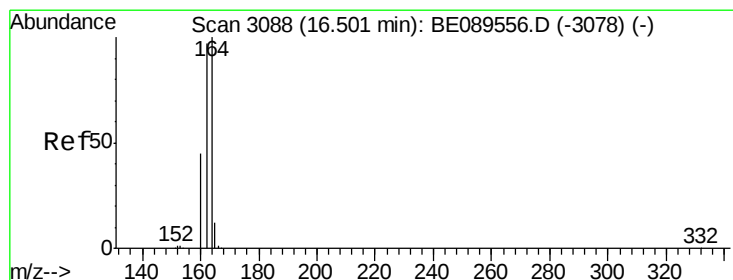
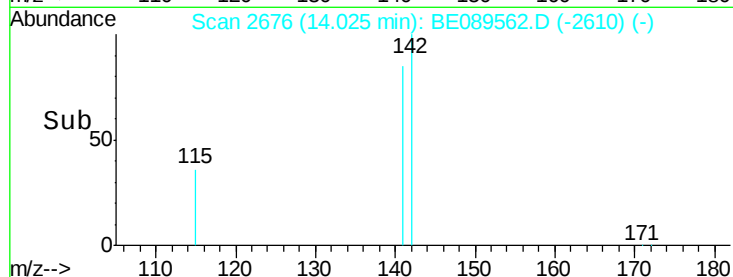
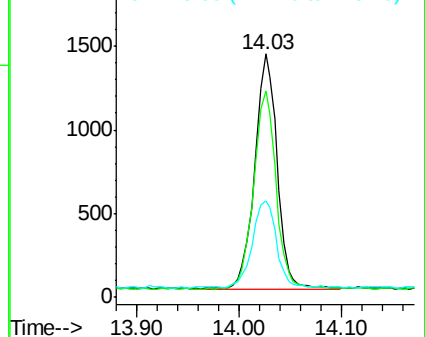
115 39.4 33.0 49.6



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



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.50 min Scan# 3088

Delta R.T. -0.00 min

Lab File: BE089562.D

Acq: 10 Feb 2015 23:39

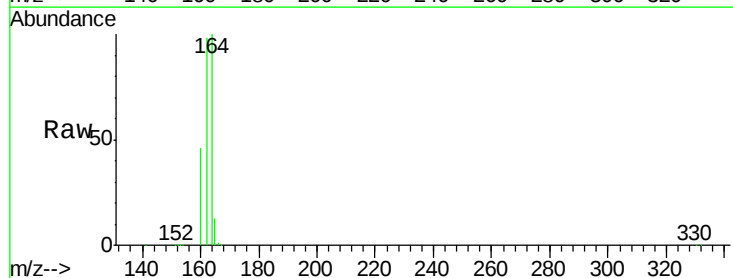
Tgt Ion:164 Resp: 117158

Ion Ratio Lower Upper

164 100

162 98.5 77.8 116.6

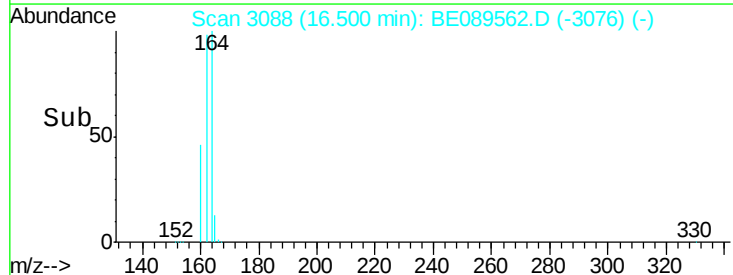
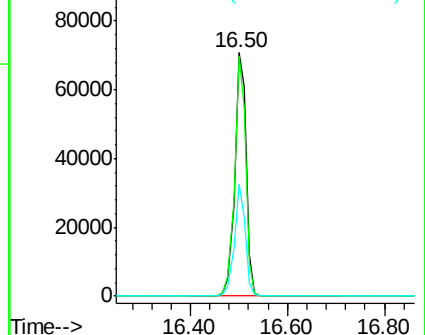
160 45.8 36.2 54.2

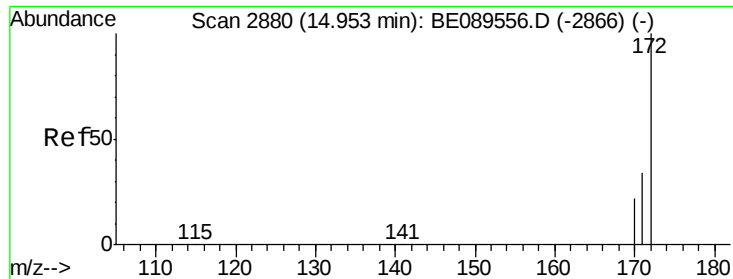


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 7.29 ng

RT: 14.95 min Scan# 2880

Delta R.T. 0.00 min

Lab File: BE089562.D

Acq: 10 Feb 2015 23:39

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

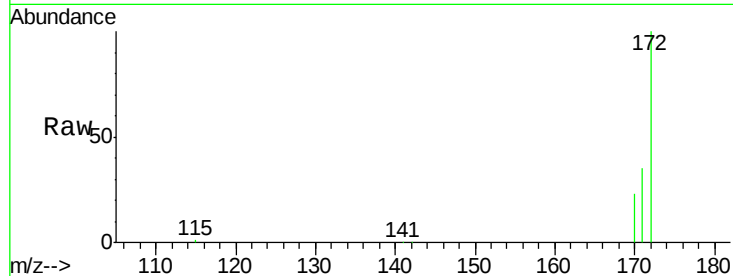
Tgt Ion:172 Resp: 231379

Ion Ratio Lower Upper

172 100

171 34.8 27.4 41.0

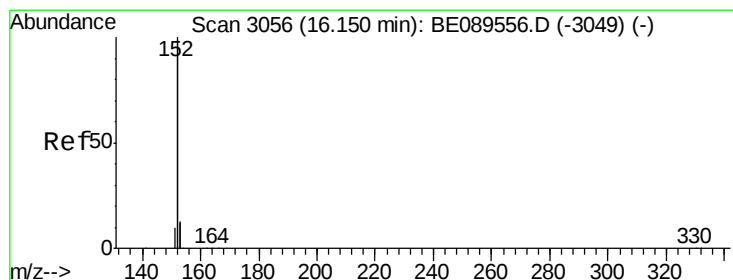
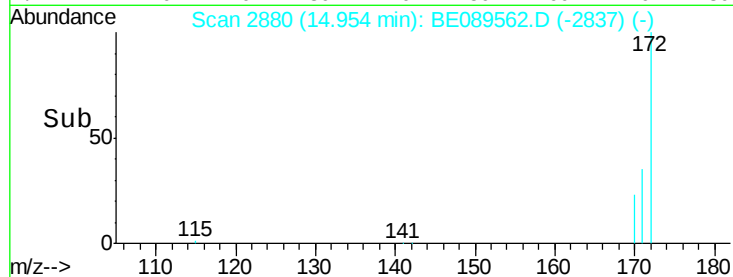
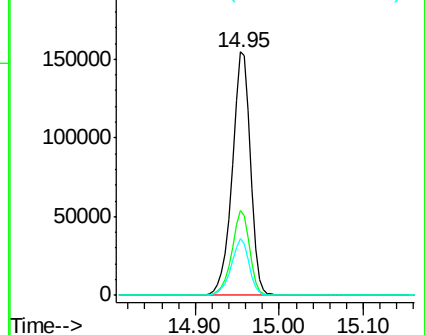
170 23.5 18.3 27.5



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



#8

Acenaphthylene

Concen: 0.06 ng

RT: 16.15 min Scan# 3056

Delta R.T. -0.00 min

Lab File: BE089562.D

Acq: 10 Feb 2015 23:39

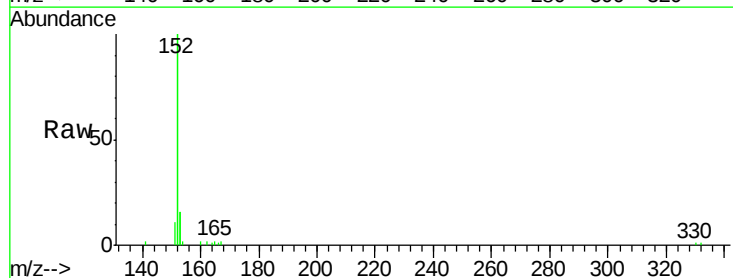
Tgt Ion:152 Resp: 11006

Ion Ratio Lower Upper

152 100

151 5.2 3.9 5.9

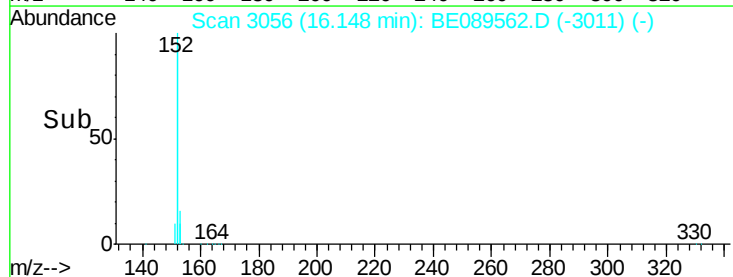
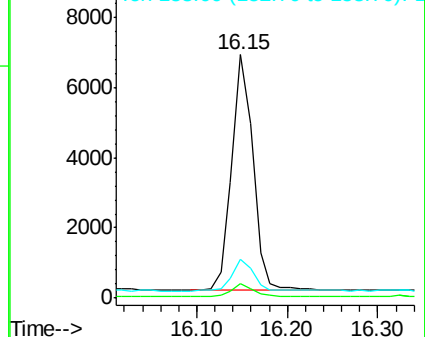
153 13.5 10.4 15.6

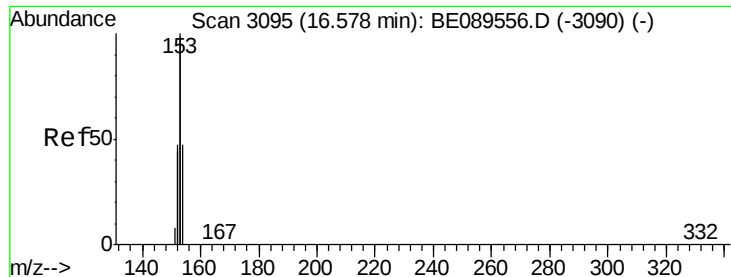


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.06 ng

RT: 16.58 min Scan# 3095

Delta R.T. -0.00 min

Lab File: BE089562.D

Acq: 10 Feb 2015 23:39

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

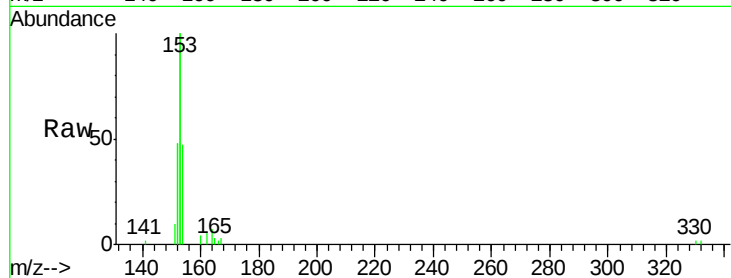
Tgt Ion:154 Resp: 1961

Ion Ratio Lower Upper

154 100

153 444.5 349.0 523.4

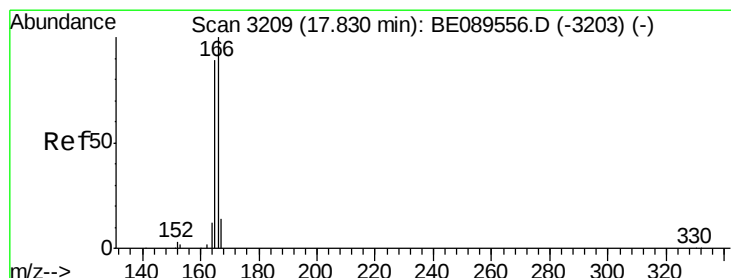
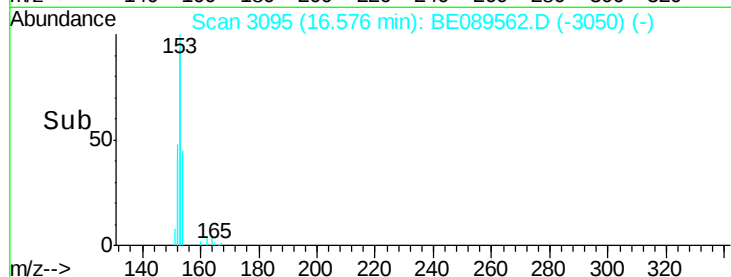
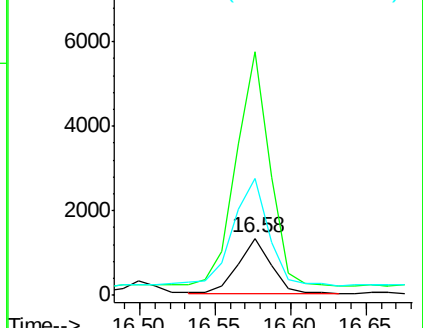
152 224.7 173.0 259.4



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



#10

Fluorene

Concen: 0.06 ng

RT: 17.83 min Scan# 3209

Delta R.T. -0.00 min

Lab File: BE089562.D

Acq: 10 Feb 2015 23:39

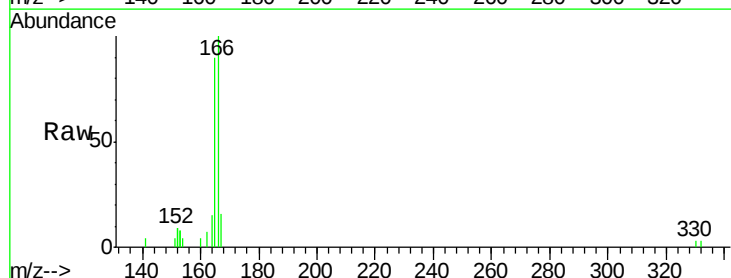
Tgt Ion:166 Resp: 2141

Ion Ratio Lower Upper

166 100

165 95.4 75.1 112.7

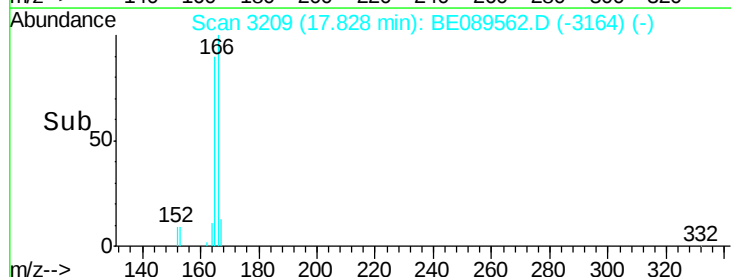
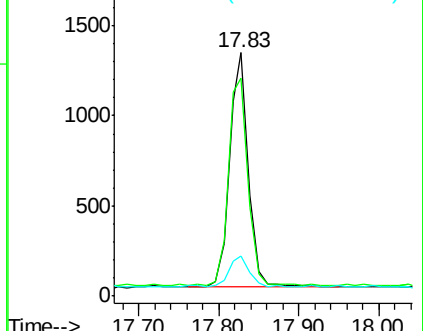
167 15.6 10.6 16.0

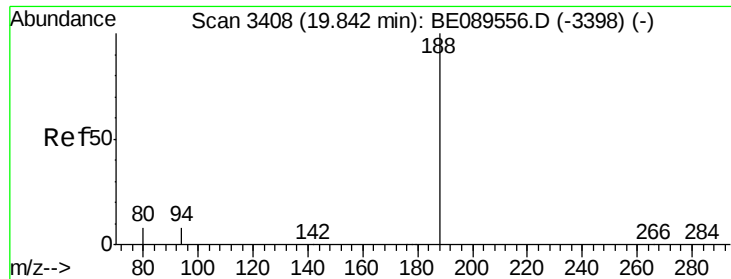


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

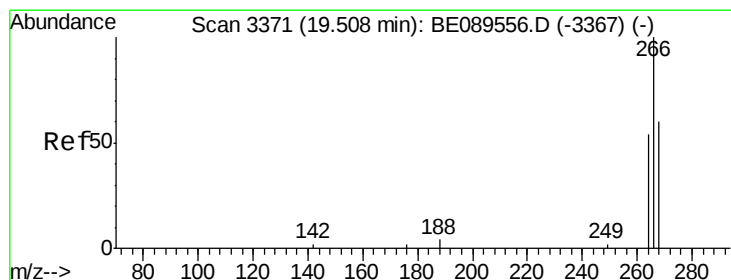
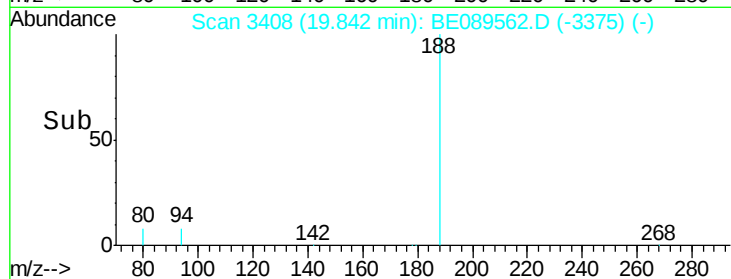
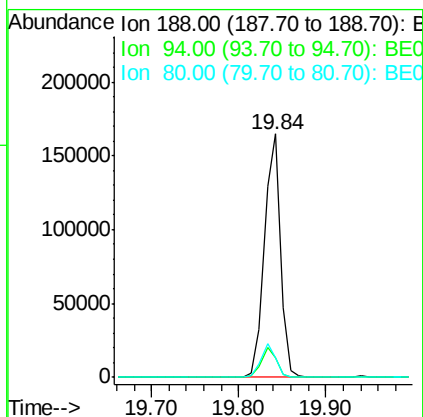
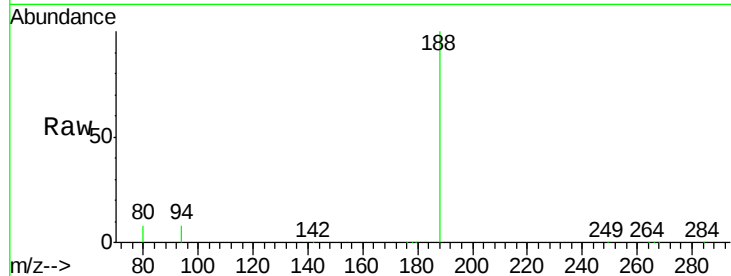




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.84 min Scan# 3408
Delta R.T. -0.00 min
Lab File: BE089562.D
Acq: 10 Feb 2015 23:39

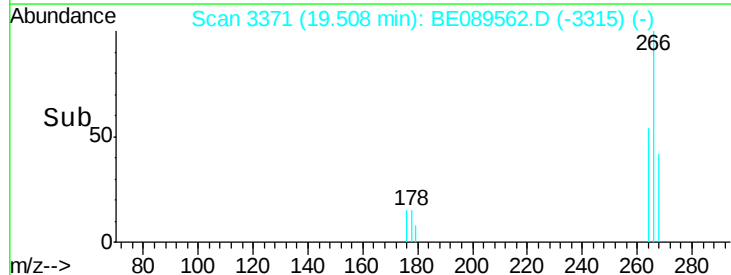
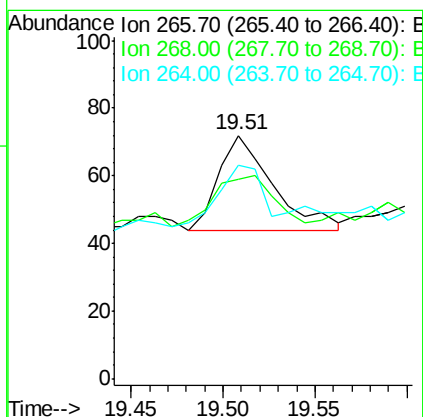
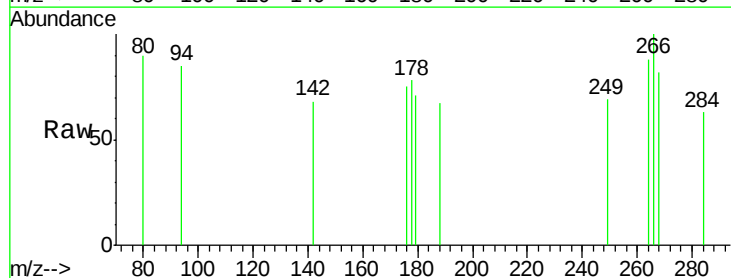
Instrument :
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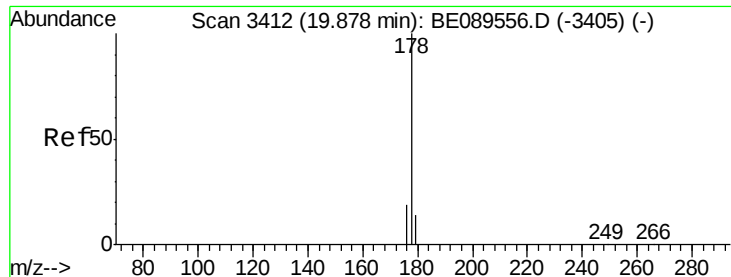
Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.0	6.2	9.2
80	8.0	6.4	9.6



#12
Pentachlorophenol
Concen: 0.35 ng
RT: 19.51 min Scan# 3371
Delta R.T. 0.00 min
Lab File: BE089562.D
Acq: 10 Feb 2015 23:39

Tgt Ion	Ratio	Lower	Upper
266	100		
268	81.9	57.9	86.9
264	87.5	54.6	81.8#





#13

Phenanthrene

Concen: 0.07 ng

RT: 19.88 min Scan# 3412

Delta R.T. -0.00 min

Lab File: BE089562.D

Acq: 10 Feb 2015 23:39

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

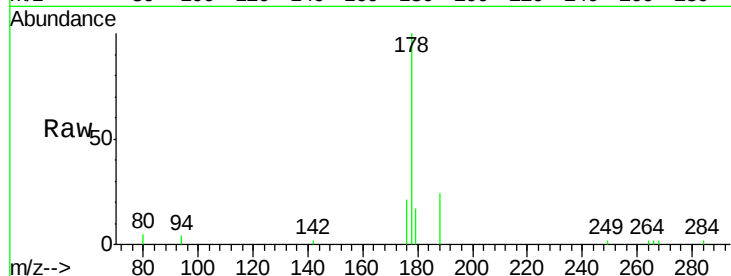
Tgt Ion:178 Resp: 3630

Ion Ratio Lower Upper

178 100

176 19.7 15.1 22.7

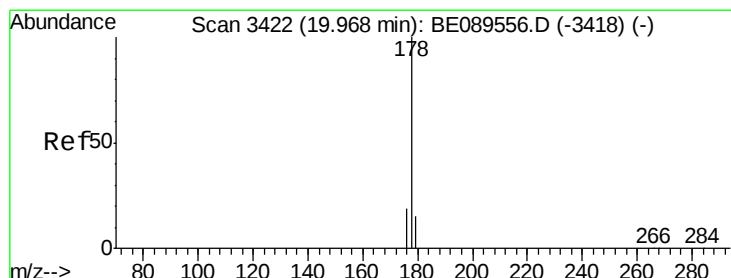
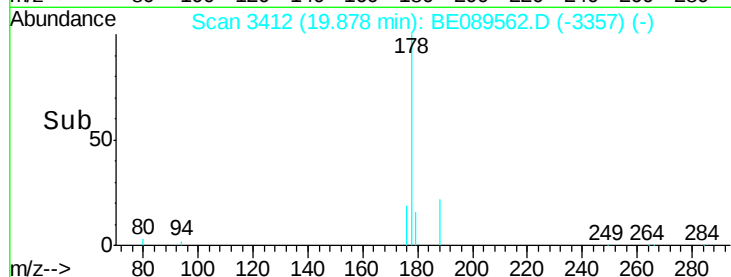
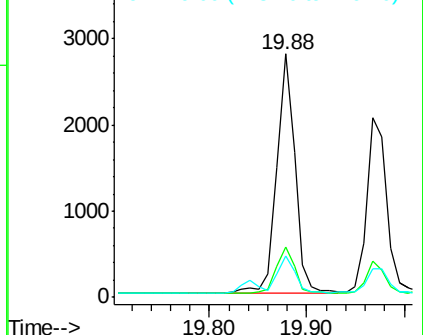
179 14.7 12.1 18.1



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



#14

Anthracene

Concen: 0.07 ng

RT: 19.97 min Scan# 3422

Delta R.T. -0.00 min

Lab File: BE089562.D

Acq: 10 Feb 2015 23:39

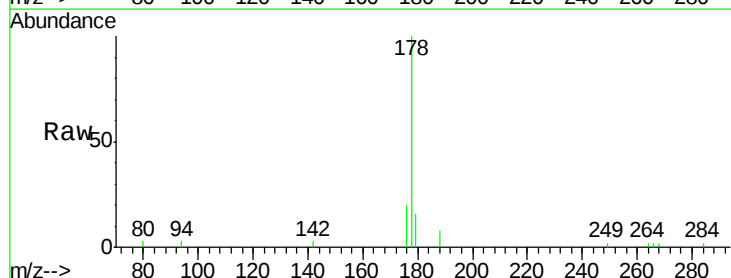
Tgt Ion:178 Resp: 2881

Ion Ratio Lower Upper

178 100

176 17.6 14.6 21.8

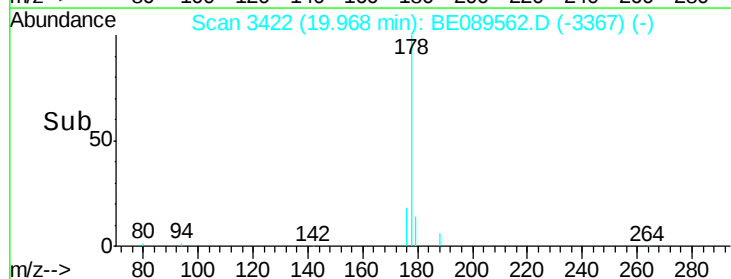
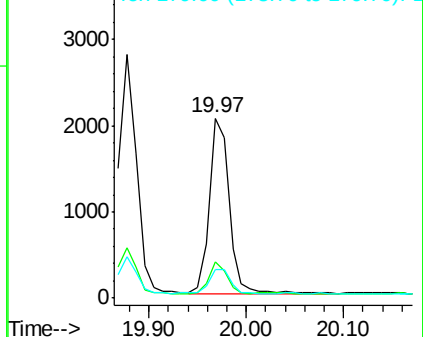
179 15.2 12.7 19.1

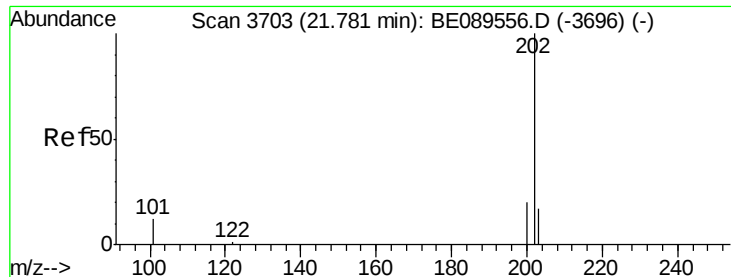


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

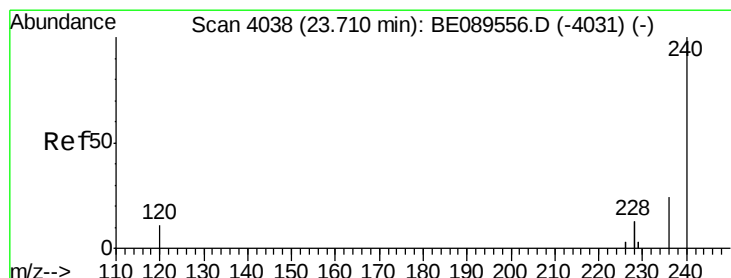
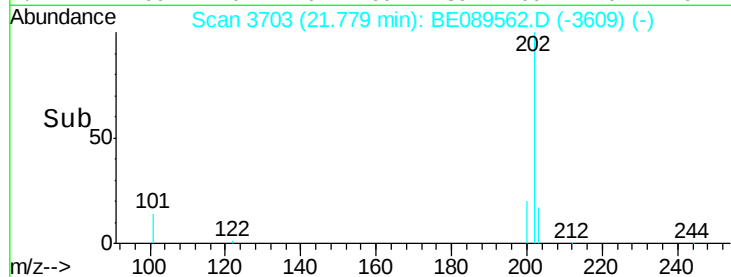
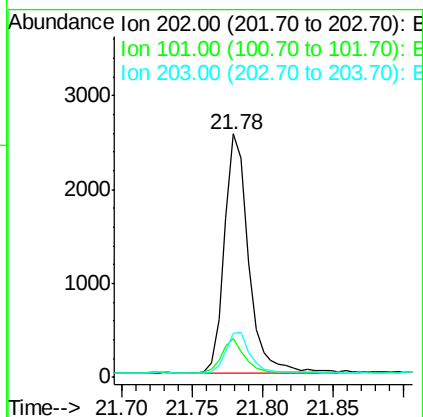
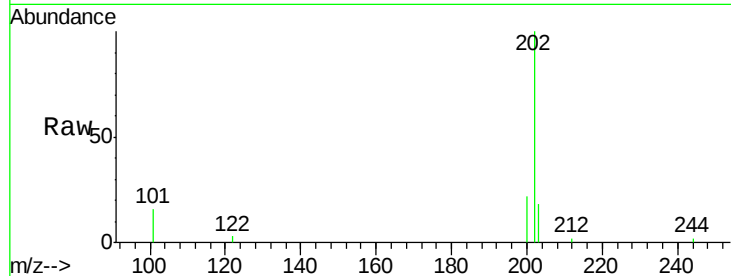




#15
 Fluoranthene
 Concen: 0.06 ng
 RT: 21.78 min Scan# 3703
 Delta R.T. -0.00 min
 Lab File: BE089562.D
 Acq: 10 Feb 2015 23:39

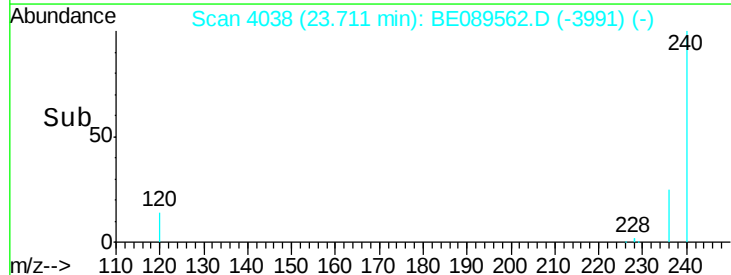
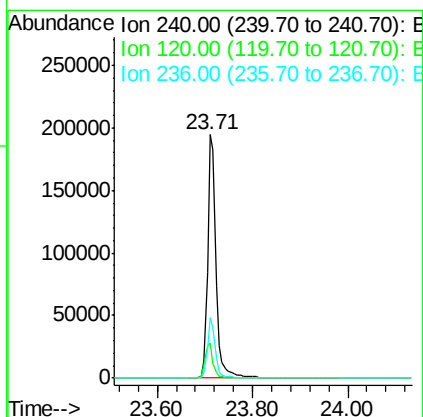
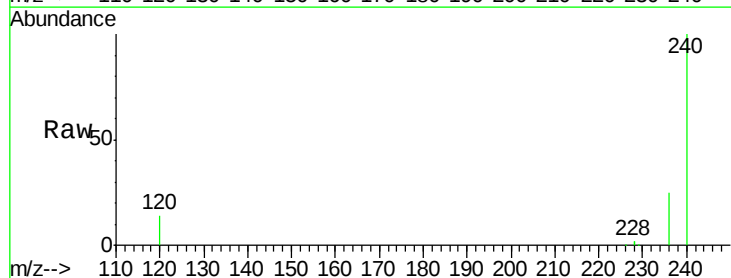
Instrument :
 BNA_E
 ClientSampleId :
 MDL-01-W

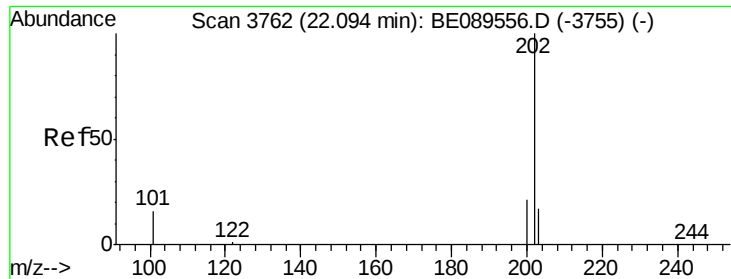
Tgt Ion: 202 Resp: 3017
 Ion Ratio Lower Upper
 202 100
 101 14.3 10.4 15.6
 203 17.2 13.6 20.4



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.71 min Scan# 4038
 Delta R.T. 0.00 min
 Lab File: BE089562.D
 Acq: 10 Feb 2015 23:39

Tgt Ion: 240 Resp: 239868
 Ion Ratio Lower Upper
 240 100
 120 14.2 9.3 13.9#
 236 24.6 19.3 28.9

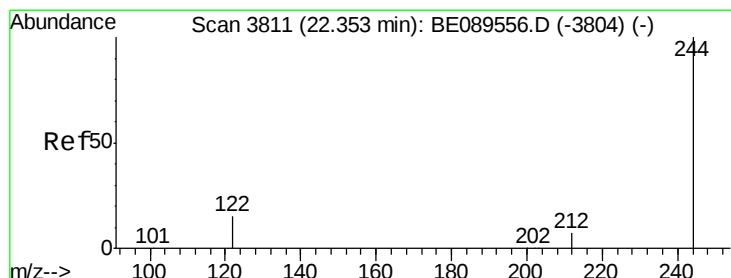
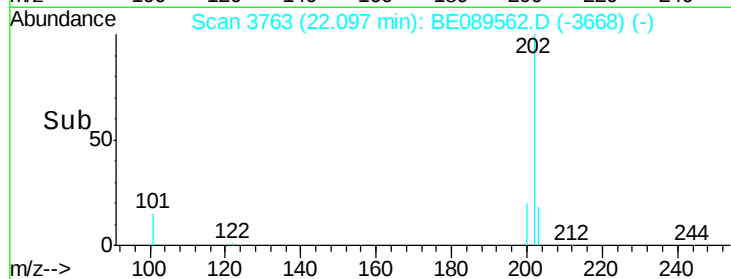
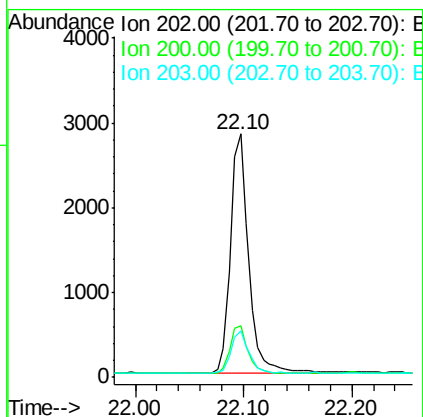
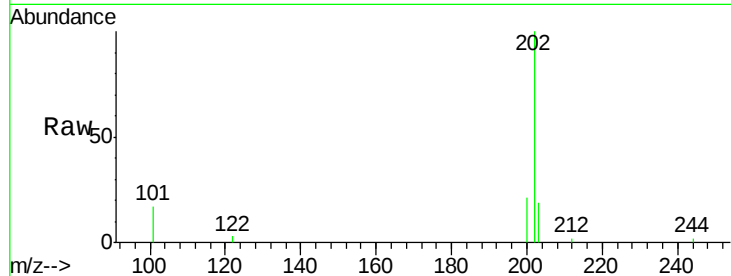




#17
 Pyrene
 Concen: 0.07 ng
 RT: 22.10 min Scan# 3763
 Delta R.T. 0.00 min
 Lab File: BE089562.D
 Acq: 10 Feb 2015 23:39

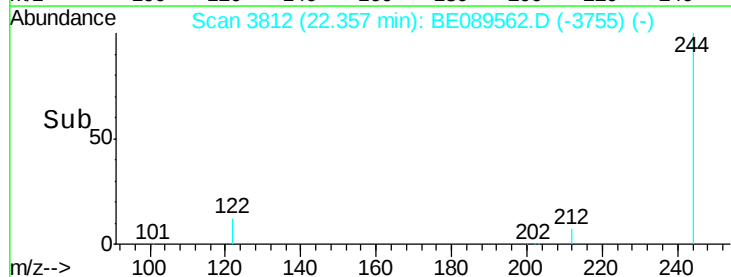
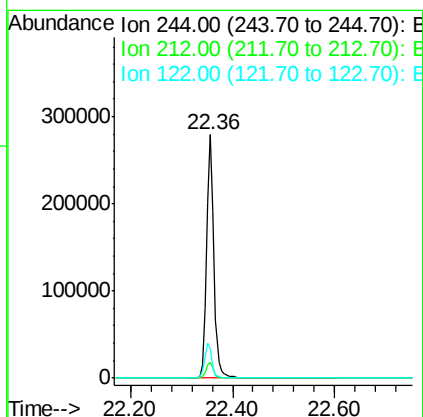
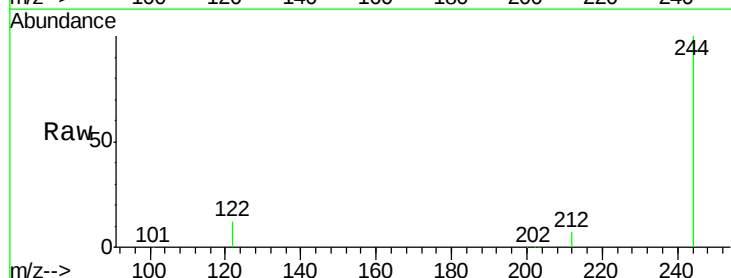
Instrument :
 BNA_E
 ClientSampleId :
 MDL-01-W

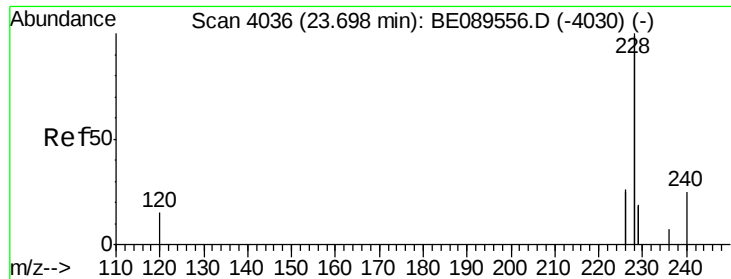
Tgt Ion: 202 Resp: 3306
 Ion Ratio Lower Upper
 202 100
 200 20.1 16.6 24.8
 203 17.8 14.2 21.2



#18
 Terphenyl-d14
 Concen: 9.41 ng
 RT: 22.36 min Scan# 3812
 Delta R.T. 0.00 min
 Lab File: BE089562.D
 Acq: 10 Feb 2015 23:39

Tgt Ion: 244 Resp: 281101
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.9 8.9
 122 12.2 12.2 18.2





#19

Benzo(a)anthracene

Concen: 0.09 ng

RT: 23.74 min Scan# 4043

Delta R.T. 0.05 min

Lab File: BE089562.D

Acq: 10 Feb 2015 23:39

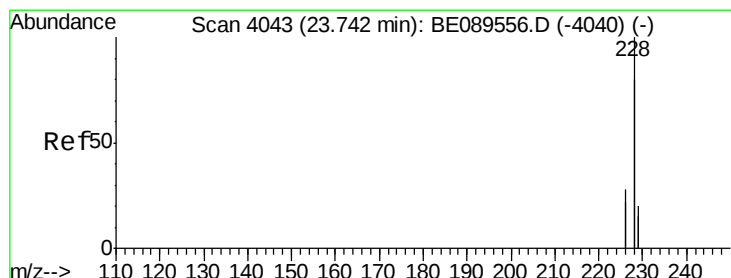
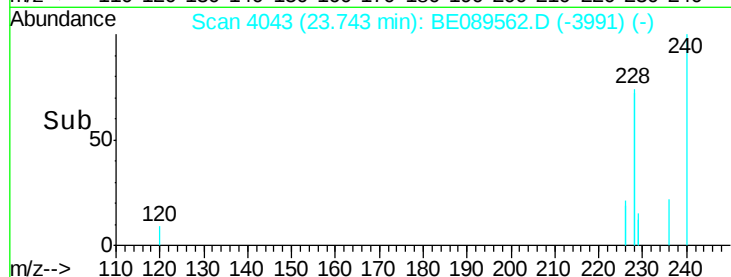
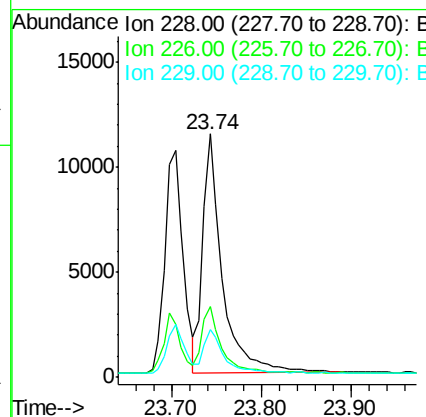
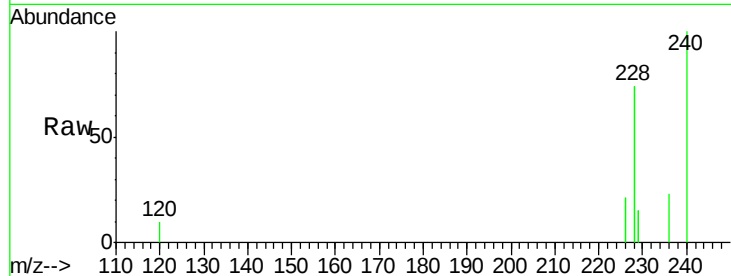
Instrument :

BNA_E

ClientSampleId :

MDL-01-W

Tgt Ion:	228	Resp:	17123
Ion	Ratio	Lower	Upper
228	100		
226	29.0	21.0	31.4
229	19.8	15.2	22.8



#20

Chrysene

Concen: 0.08 ng

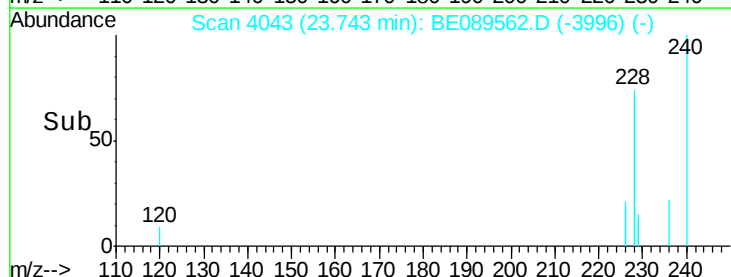
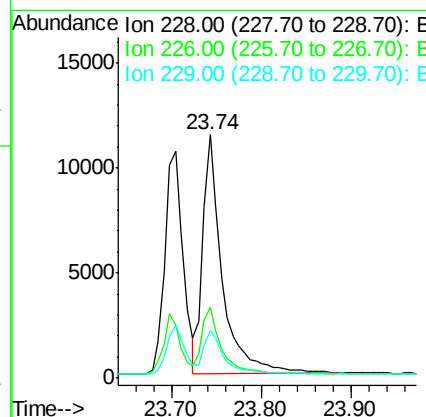
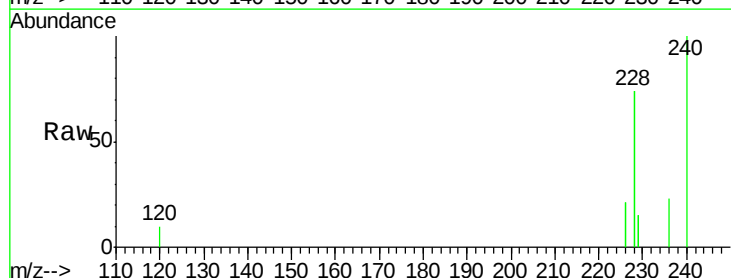
RT: 23.74 min Scan# 4043

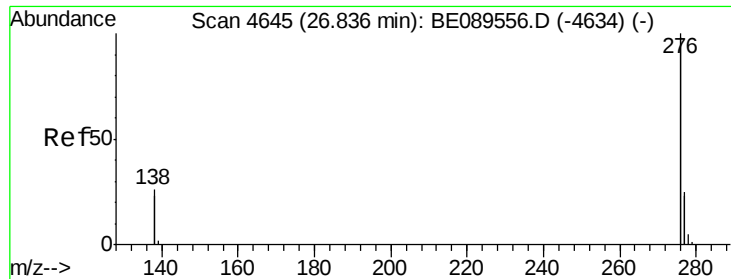
Delta R.T. 0.00 min

Lab File: BE089562.D

Acq: 10 Feb 2015 23:39

Tgt Ion:	228	Resp:	17123
Ion	Ratio	Lower	Upper
228	100		
226	29.0	22.6	34.0
229	19.8	15.6	23.4





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.06 ng

RT: 26.83 min Scan# 4644

Delta R.T. -0.00 min

Lab File: BE089562.D

Acq: 10 Feb 2015 23:39

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

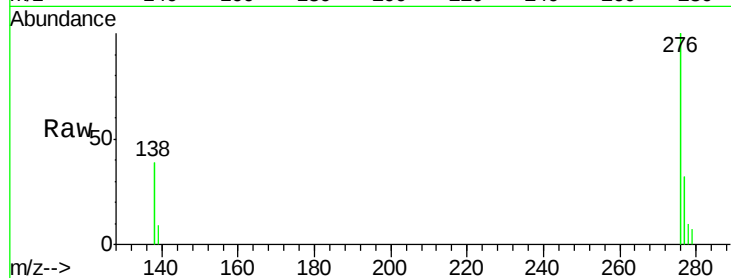
Tgt Ion:276 Resp: 7229

Ion Ratio Lower Upper

276 100

138 27.5 20.2 30.4

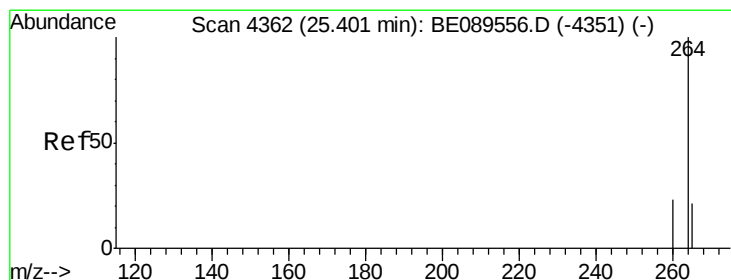
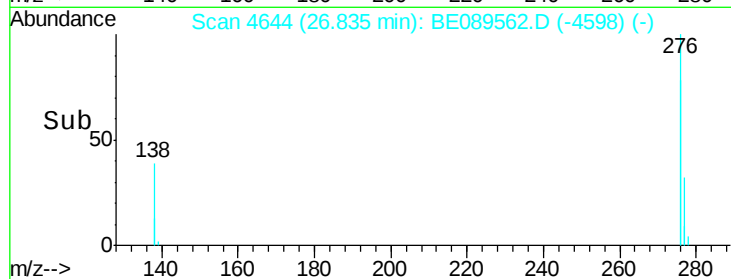
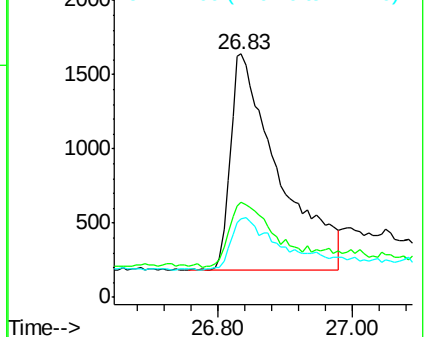
277 22.3 19.6 29.4



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



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.40 min Scan# 4362

Delta R.T. 0.00 min

Lab File: BE089562.D

Acq: 10 Feb 2015 23:39

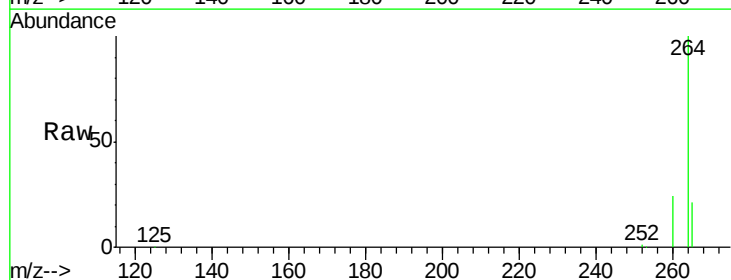
Tgt Ion:264 Resp: 240250

Ion Ratio Lower Upper

264 100

260 24.1 18.7 28.1

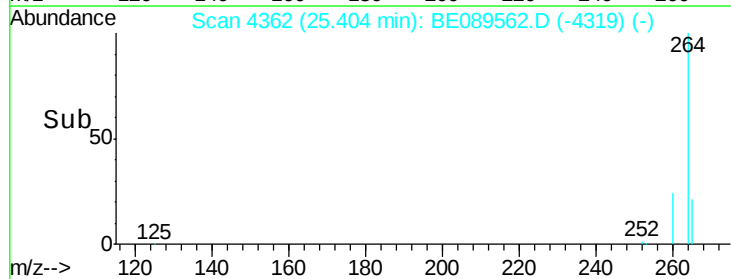
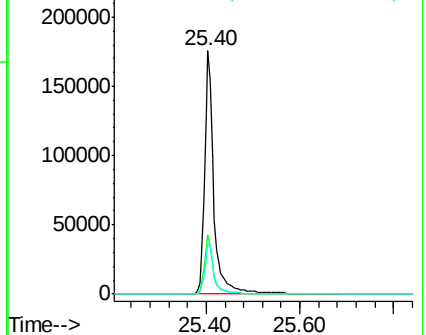
265 20.9 16.8 25.2

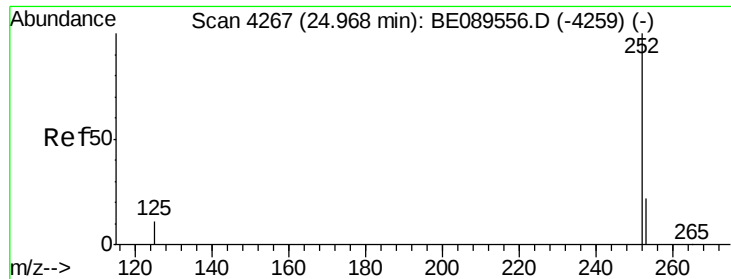


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 0.26 ng

RT: 24.97 min Scan# 4266

Delta R.T. -0.00 min

Lab File: BE089562.D

Acq: 10 Feb 2015 23:39

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

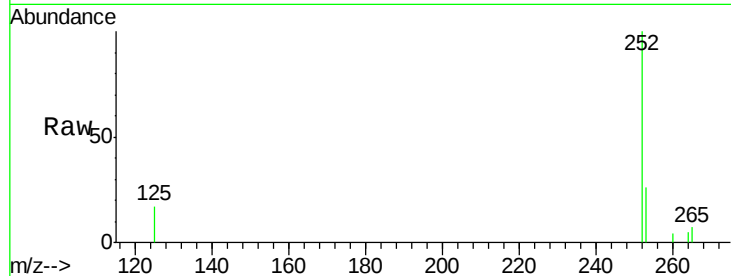
Tgt Ion:252 Resp: 1376

Ion Ratio Lower Upper

252 100

253 26.5 17.8 26.8

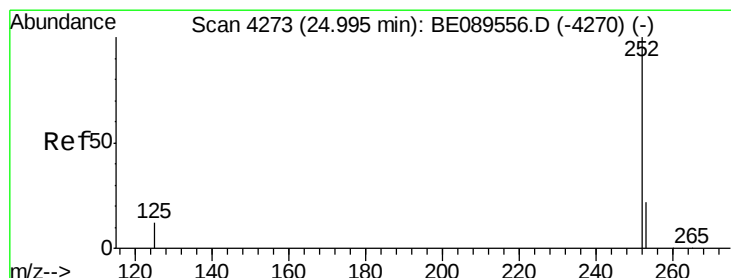
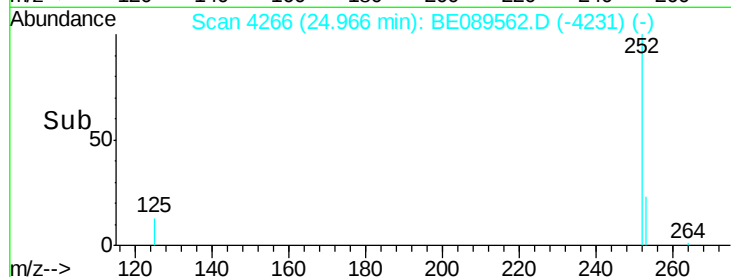
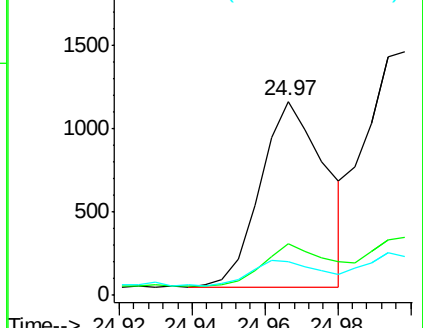
125 17.2 9.3 13.9#



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



#24

Benzo(k)fluoranthene

Concen: 0.05 ng

RT: 25.00 min Scan# 4273

Delta R.T. 0.00 min

Lab File: BE089562.D

Acq: 10 Feb 2015 23:39

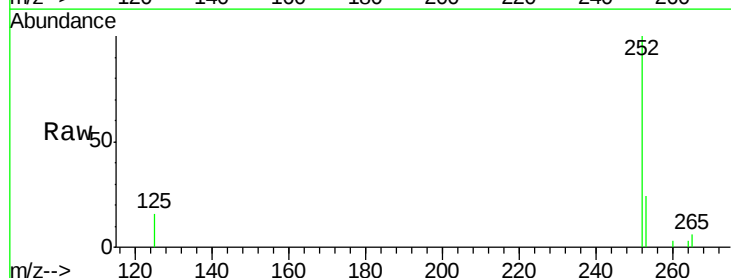
Tgt Ion:252 Resp: 3103

Ion Ratio Lower Upper

252 100

253 23.9 17.5 26.3

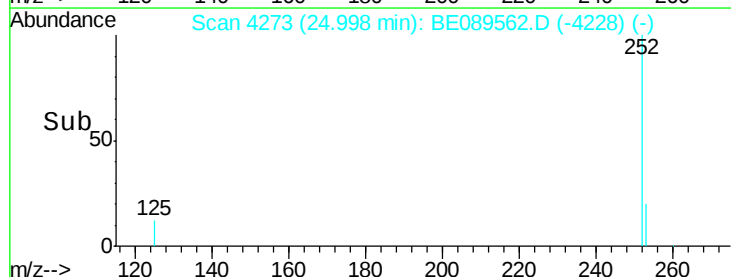
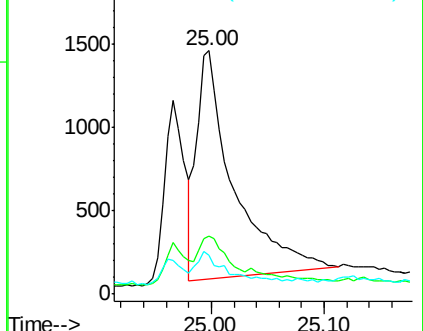
125 15.9 9.6 14.4#

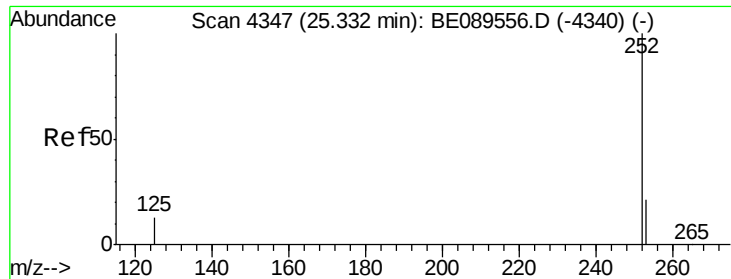


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 0.22 ng

RT: 25.34 min Scan# 4347

Delta R.T. 0.00 min

Lab File: BE089562.D

Acq: 10 Feb 2015 23:39

Instrument :

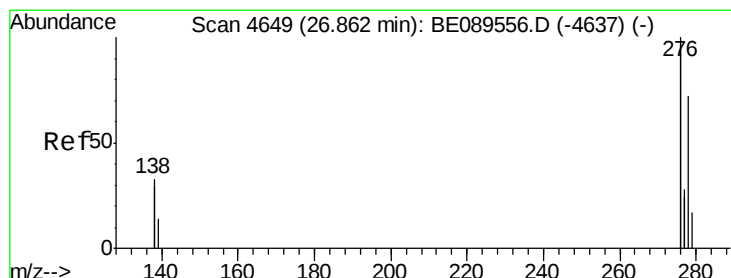
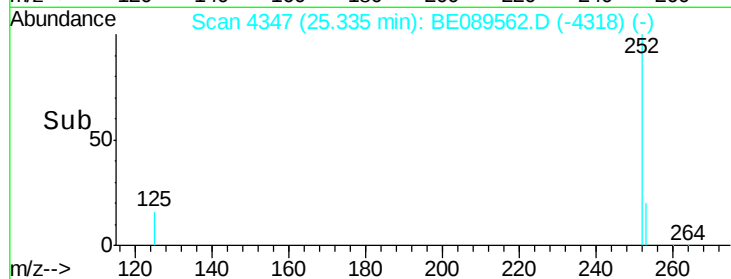
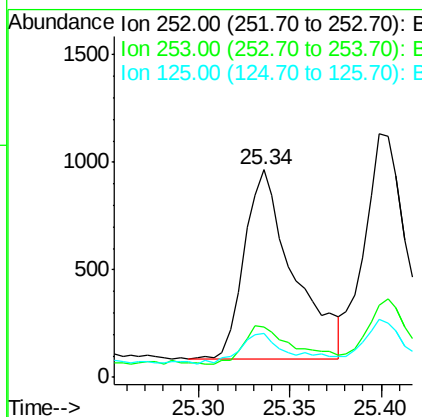
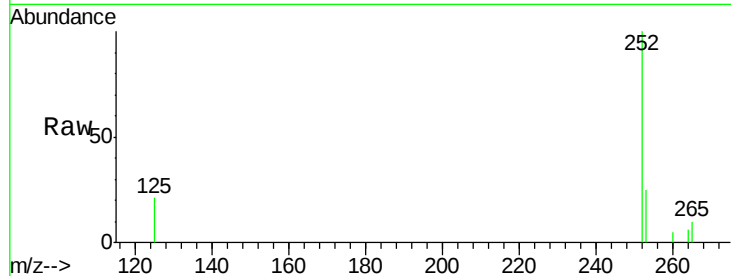
BNA_E

ClientSampled :

MDL-01-W

Tgt Ion: 252 Resp: 1657

Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.4	26.0
125	21.3	11.1	16.7#



#26

Dibenzo(a,h)anthracene

Concen: 0.15 ng

RT: 26.87 min Scan# 4649

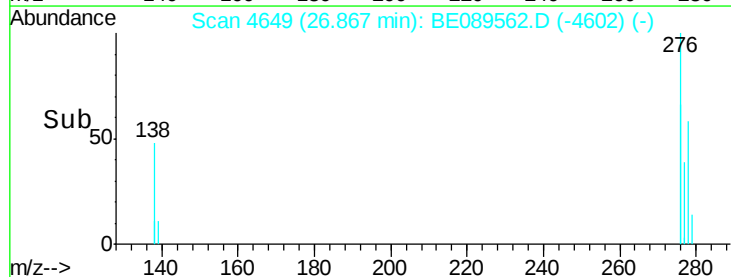
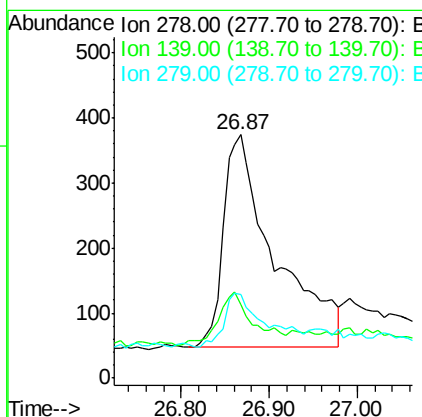
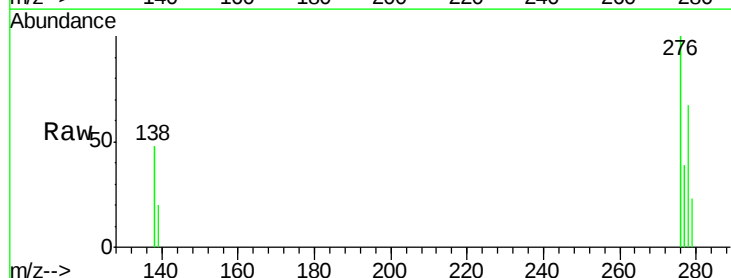
Delta R.T. 0.01 min

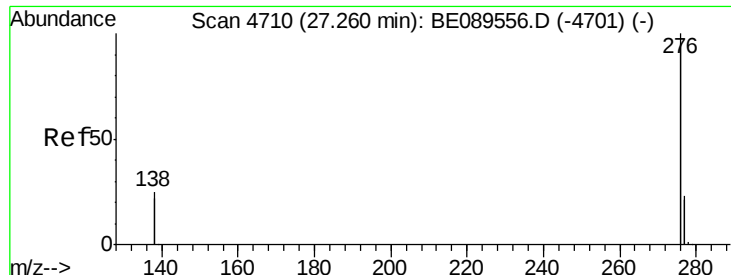
Lab File: BE089562.D

Acq: 10 Feb 2015 23:39

Tgt Ion: 278 Resp: 1311

Ion	Ratio	Lower	Upper
278	100		
139	30.2	16.1	24.1#
279	34.5	19.6	29.4#





#27

Benzo(g,h,i)perylene

Concen: 0.04 ng

RT: 27.26 min Scan# 4709

Delta R.T. -0.00 min

Lab File: BE089562.D

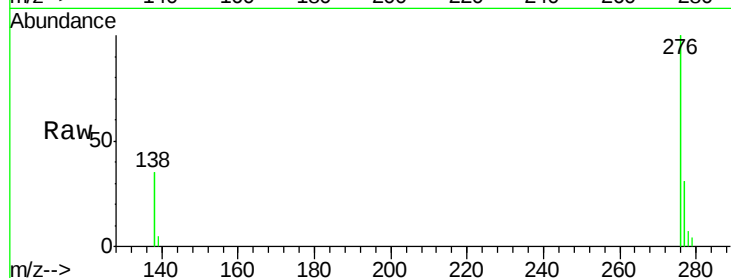
Acq: 10 Feb 2015 23:39

Instrument :

BNA_E

ClientSampleId :

MDL-01-W



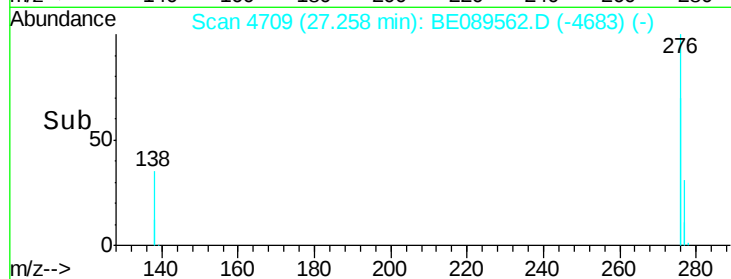
Tgt Ion: 276 Resp: 8429

Ion Ratio Lower Upper

276 100

277 30.6 18.7 28.1#

138 35.4 19.7 29.5#



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

