

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE011416\
 Data File : BE091362.D
 Acq On : 14 Jan 2016 22:06
 Operator : UM/IZ
 Sample : SSTDICC010
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

Quant Time: Jan 14 23:01:29 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE011416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 14 22:47:32 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	34127	5.00	ng	-0.01
4) Naphthalene-d8	9.53	136	177947	5.00	ng	-0.02
8) Acenaphthene-d10	13.35	164	92265	5.00	ng	0.00
14) Phenanthrene-d10	16.07	188	236290	5.00	ng	-0.01
18) Chrysene-d12	20.21	240	262761	5.00	ng	0.00
24) Perylene-d12	22.10	264	212944	5.00	ng	0.00

System Monitoring Compounds						
2) 2-Fluorophenol	4.91	112	60526	8.90	ng	-0.04
3) Phenol-d6	6.51	99	109568	13.09	ng	-0.05
5) Nitrobenzene-d5	8.12	82	133471	13.70	ng	-0.04
9) 2,4,6-Tribromophenol	14.88	330	33214	11.78	ng	-0.01
10) 2-Fluorobiphenyl	11.99	172	266386	10.90	ng	-0.02
20) Terphenyl-d14	18.61	244	393493	12.23	ng	-0.02

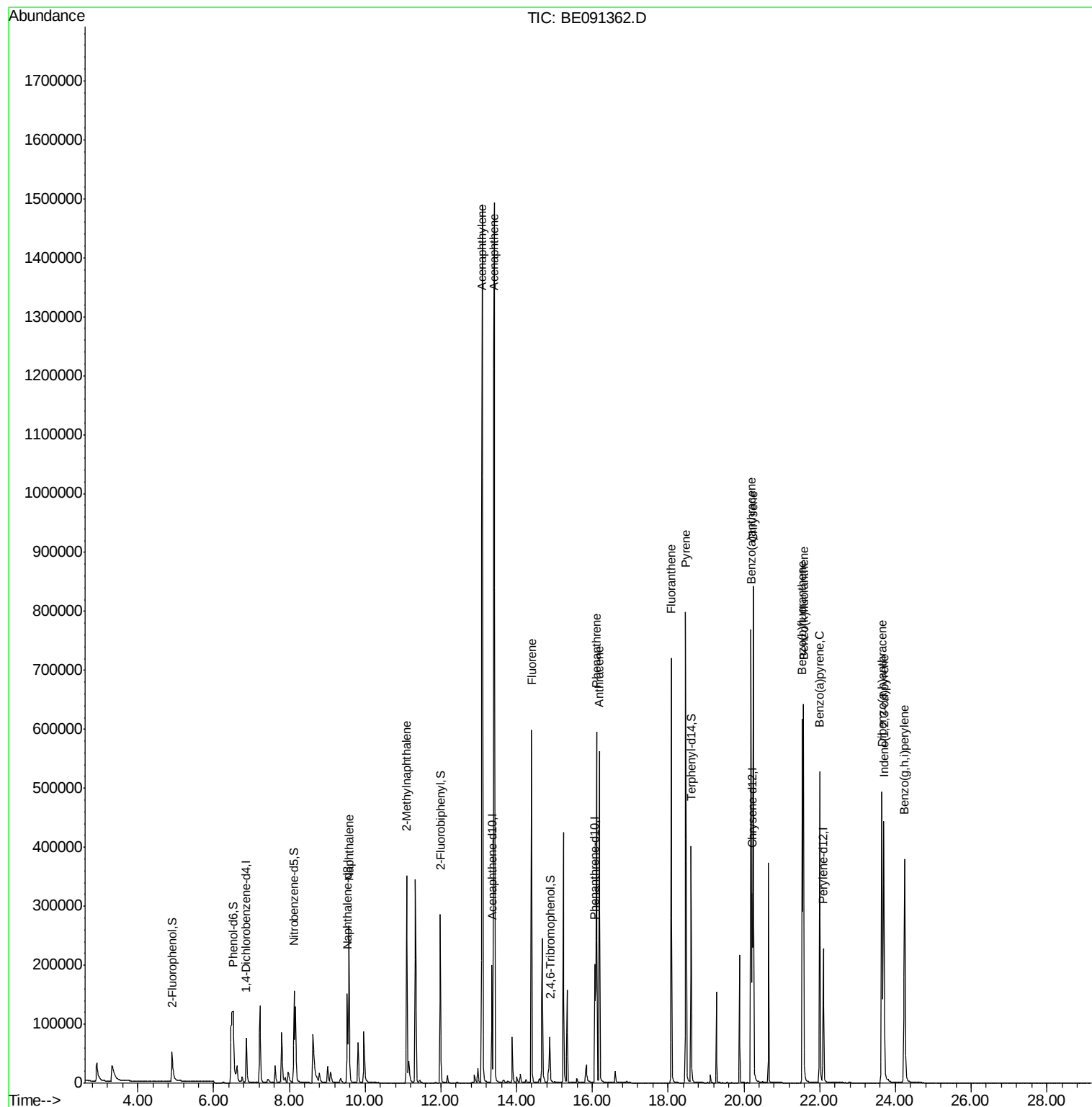
Target Compounds				Qvalue		
6) Naphthalene	9.58	128	380284	9.87	ng	99
7) 2-Methylnaphthalene	11.10	142	246353	11.47	ng	95
11) Acenaphthylene	13.09	152	1780301	11.87	ng	99
12) Acenaphthene	13.41	154	279700	11.20	ng	# 68
13) Fluorene	14.39	166	370041	12.15	ng	96
15) Phenanthrene	16.11	178	594054	9.82	ng	99
16) Anthracene	16.19	178	583631	11.13	ng	99
17) Fluoranthene	18.08	202	645639	9.28	ng	99
19) Pyrene	18.46	202	691941	10.79	ng	100
21) Benzo(a)anthracene	20.19	228	606163	10.39	ng	99
22) Chrysene	20.25	228	663381	8.44	ng	99
23) Indeno(1,2,3-cd)pyrene	23.69	276	557555	9.08	ng	94
25) Benzo(b)fluoranthene	21.54	252	551617	12.09	ng	100
26) Benzo(k)fluoranthene	21.57	252	634706	10.16	ng	99
27) Benzo(a)pyrene	22.00	252	547735	12.62	ng	99
28) Dibenzo(a,h)anthracene	23.64	278	519450	12.61	ng	100
29) Benzo(g,h,i)perylene	24.24	276	554331	12.21	ng	98

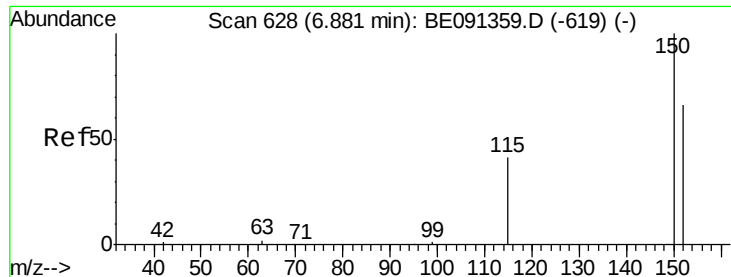
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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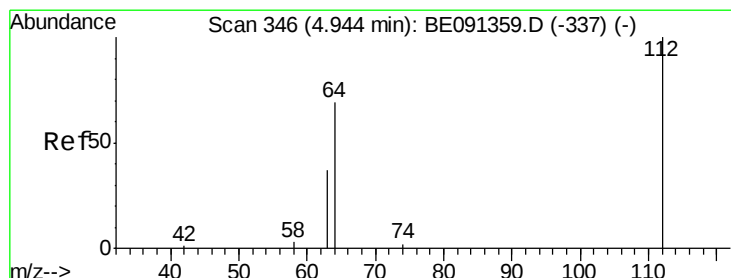
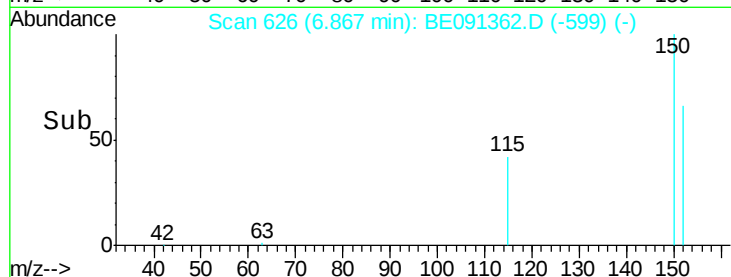
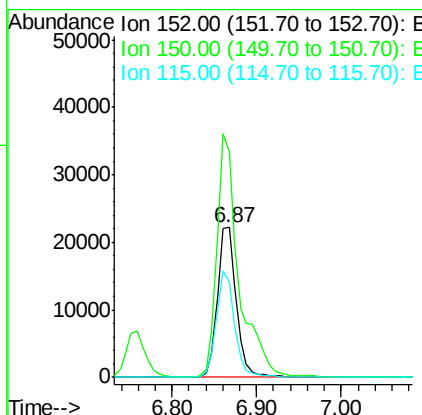
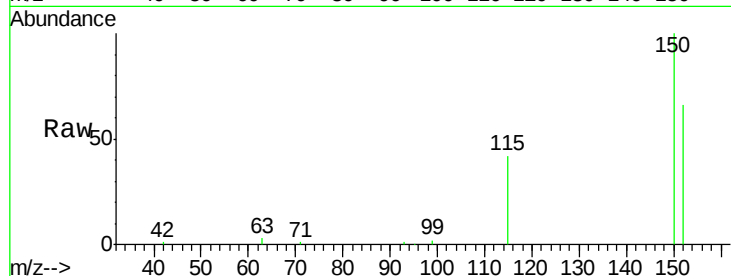




#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 6.87 min Scan# 626
 Delta R.T. -0.01 min
 Lab File: BE091362.D
 Acq: 14 Jan 2016 22:06

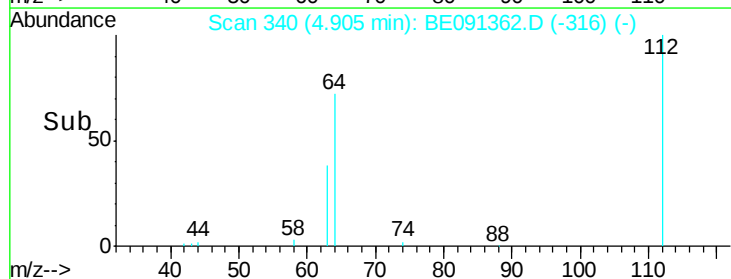
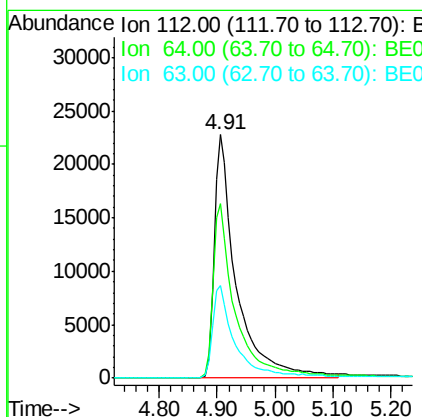
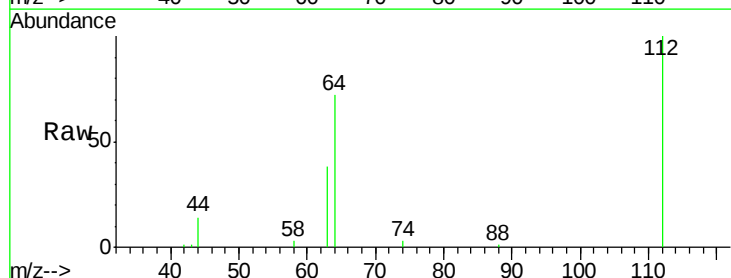
Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

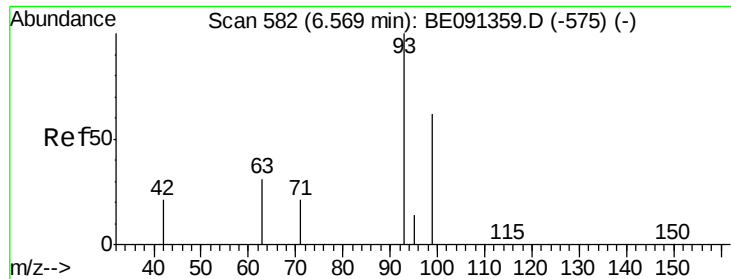
Tgt Ion:152 Resp: 34127
 Ion Ratio Lower Upper
 152 100
 150 150.6 121.6 182.4
 115 63.2 50.6 75.8



#2
 2-Fluorophenol
 Concen: 8.90 ng
 RT: 4.91 min Scan# 340
 Delta R.T. -0.04 min
 Lab File: BE091362.D
 Acq: 14 Jan 2016 22:06

Tgt Ion:112 Resp: 60526
 Ion Ratio Lower Upper
 112 100
 64 71.8 57.4 86.0
 63 38.4 32.2 48.2





#3

Phenol-d6

Concen: 13.09 ng

RT: 6.51 min Scan# 574

Delta R.T. -0.05 min

Lab File: BE091362.D

Acq: 14 Jan 2016 22:06

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

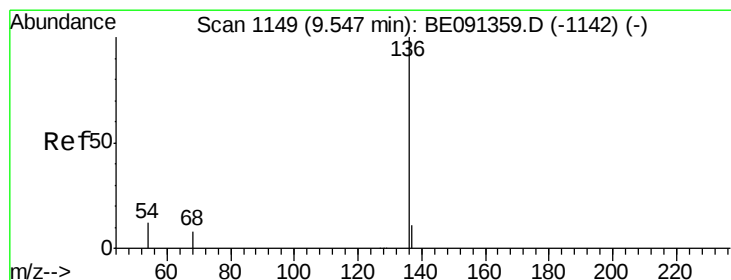
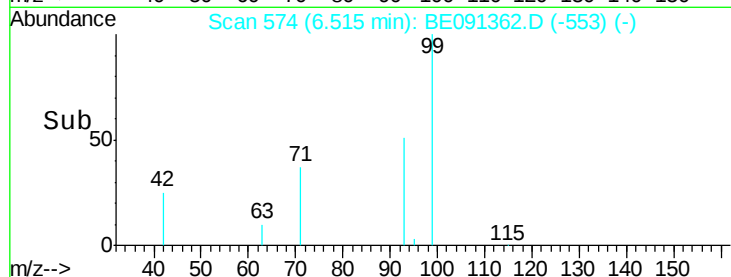
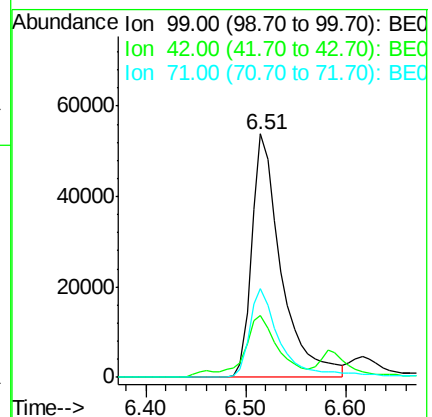
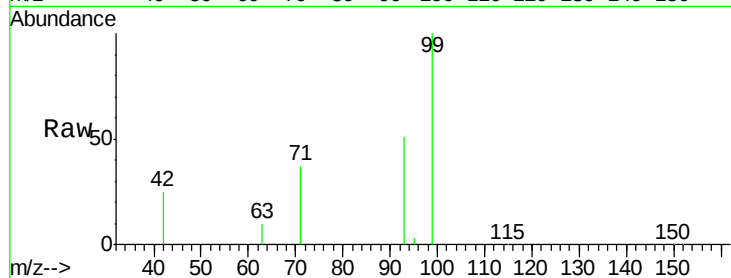
Tgt Ion: 99 Resp: 109568

Ion Ratio Lower Upper

99 100

42 27.1 22.9 34.3

71 39.2 35.4 53.2



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.53 min Scan# 1147

Delta R.T. -0.02 min

Lab File: BE091362.D

Acq: 14 Jan 2016 22:06

Tgt Ion: 136 Resp: 177947

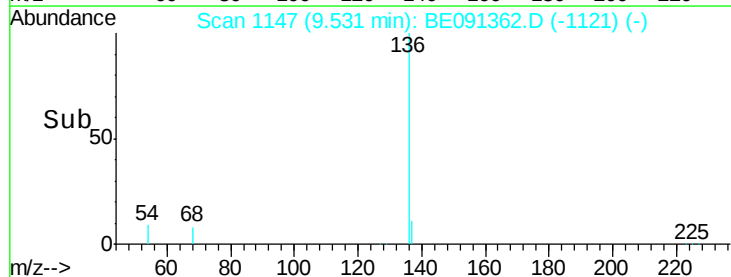
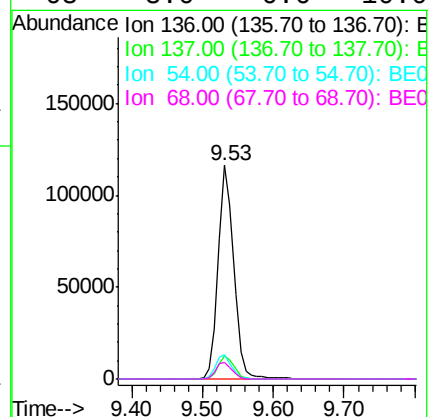
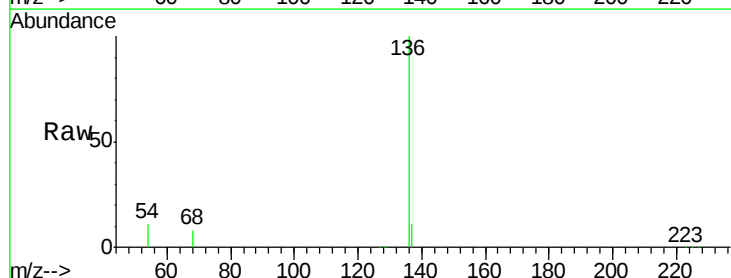
Ion Ratio Lower Upper

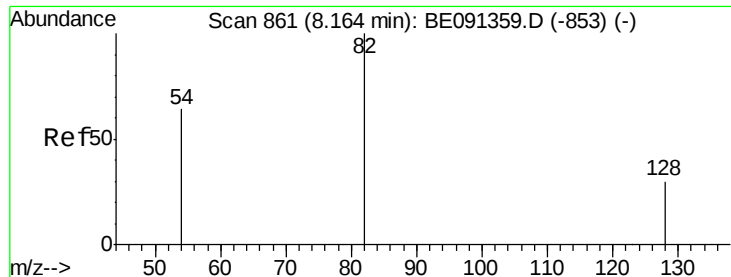
136 100

137 10.9 8.7 13.1

54 11.3 9.8 14.6

68 8.0 6.6 10.0





#5

Nitrobenzene-d5

Concen: 13.70 ng

RT: 8.12 min Scan# 852

Delta R.T. -0.04 min

Lab File: BE091362.D

Acq: 14 Jan 2016 22:06

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

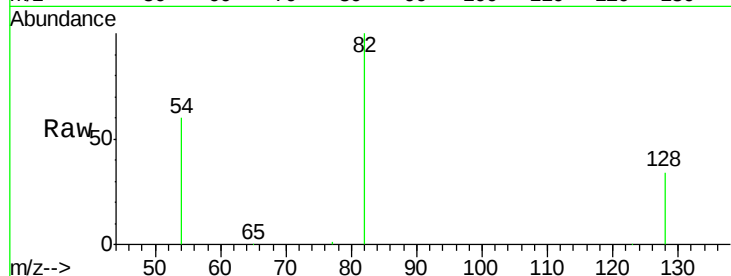
Tgt Ion: 82 Resp: 133471

Ion Ratio Lower Upper

82 100

128 34.3 24.6 36.8

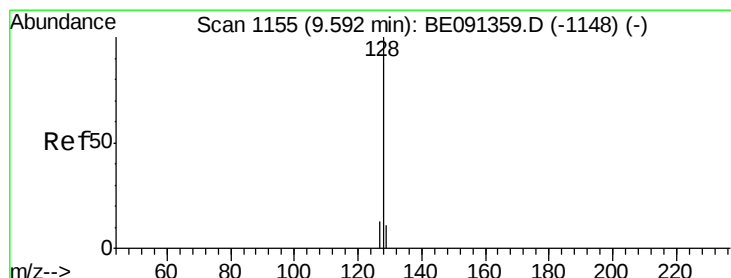
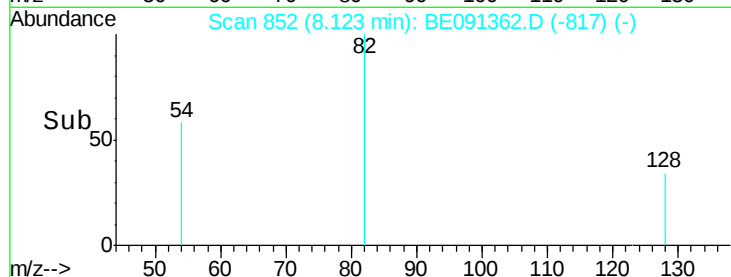
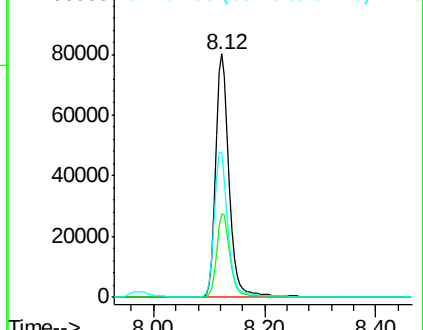
54 59.7 52.7 79.1



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



#6

Naphthalene

Concen: 9.87 ng

RT: 9.58 min Scan# 1153

Delta R.T. -0.02 min

Lab File: BE091362.D

Acq: 14 Jan 2016 22:06

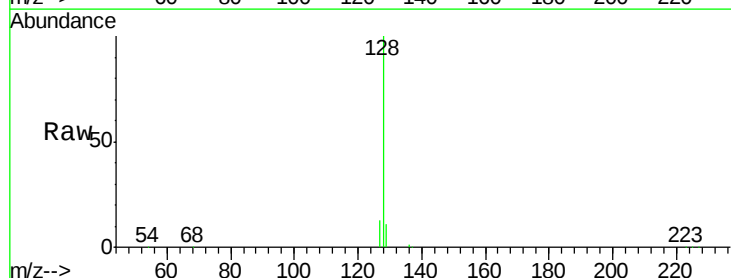
Tgt Ion: 128 Resp: 380284

Ion Ratio Lower Upper

128 100

129 11.3 9.3 13.9

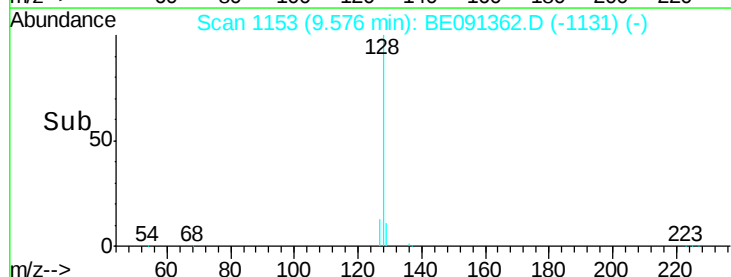
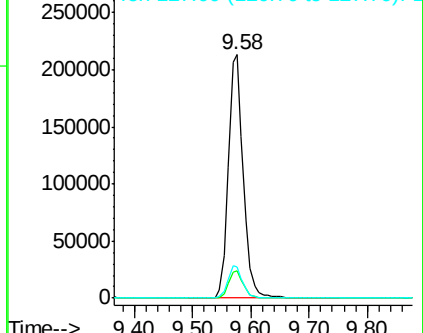
127 13.0 10.6 15.8

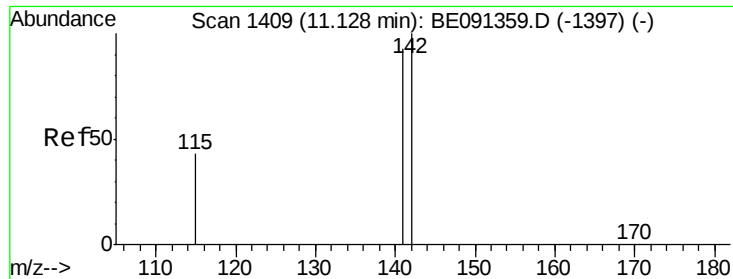


Abundance Ion 128.00 (127.70 to 128.70): BE0

Ion 129.00 (128.70 to 129.70): BE0

Ion 127.00 (126.70 to 127.70): BE0





#7

2-Methylnaphthalene

Concen: 11.47 ng

RT: 11.10 min Scan# 1402

Delta R.T. -0.03 min

Lab File: BE091362.D

Acq: 14 Jan 2016 22:06

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

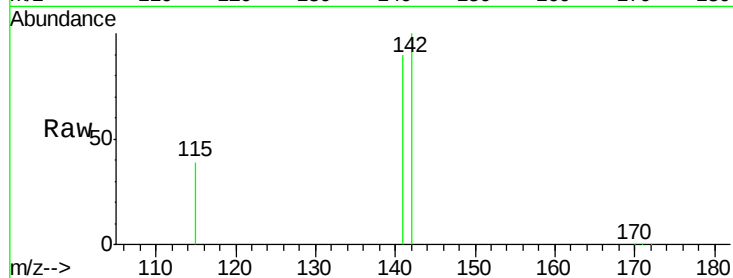
Tgt Ion:142 Resp: 246353

Ion Ratio Lower Upper

142 100

141 89.7 74.5 111.7

115 39.1 35.2 52.8

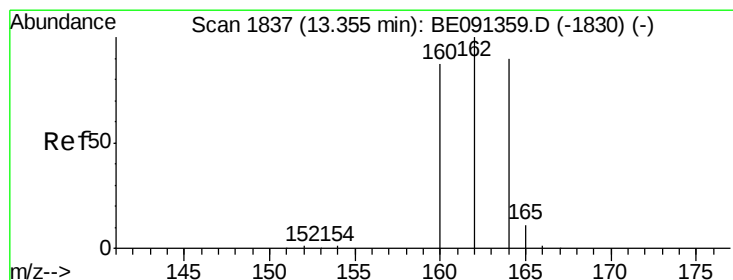
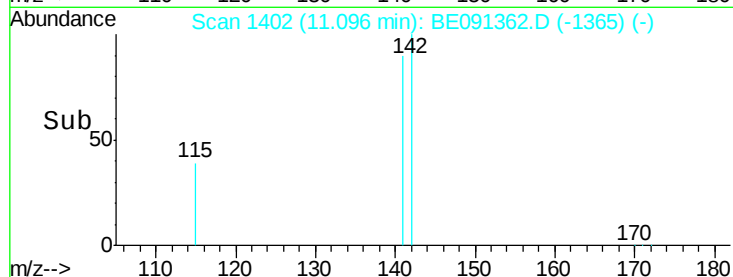
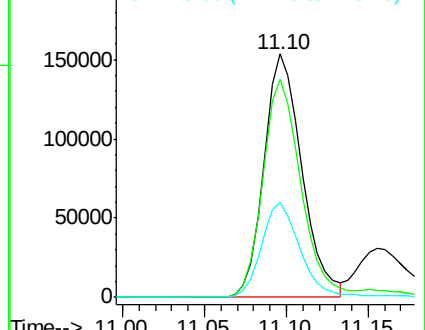


Abundance

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: 13.35 min Scan# 1836

Delta R.T. -0.01 min

Lab File: BE091362.D

Acq: 14 Jan 2016 22:06

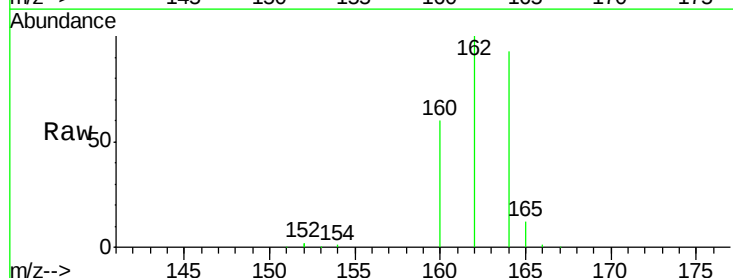
Tgt Ion:164 Resp: 92265

Ion Ratio Lower Upper

164 100

162 107.1 88.5 132.7

160 64.5 76.7 115.1#

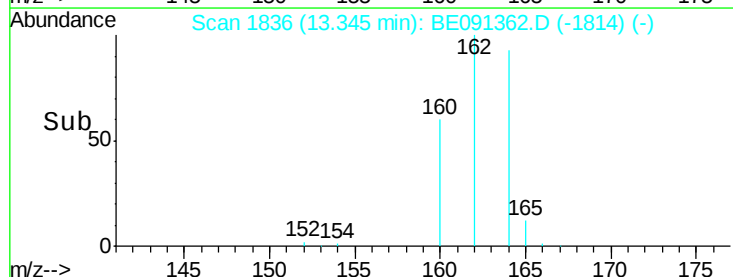
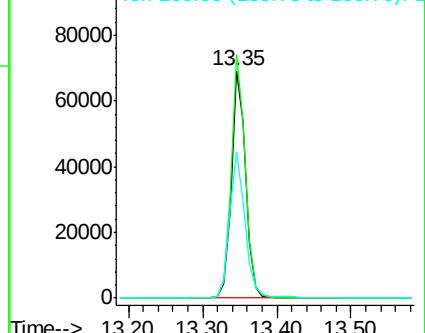


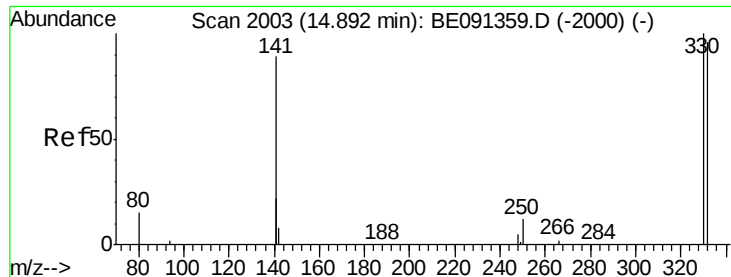
Abundance

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

2,4,6-Tribromophenol

Concen: 11.78 ng

RT: 14.88 min Scan# 2002

Delta R.T. -0.01 min

Lab File: BE091362.D

Acq: 14 Jan 2016 22:06

Instrument :

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ClientSampleId :

SSTDIC010

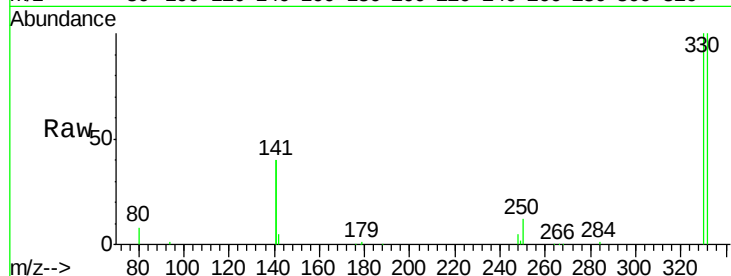
Tgt Ion:330 Resp: 33214

Ion Ratio Lower Upper

330 100

332 97.2 78.6 118.0

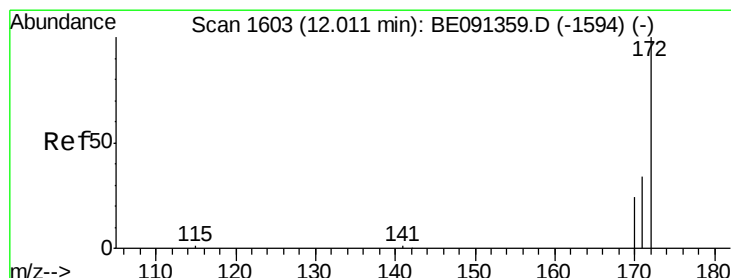
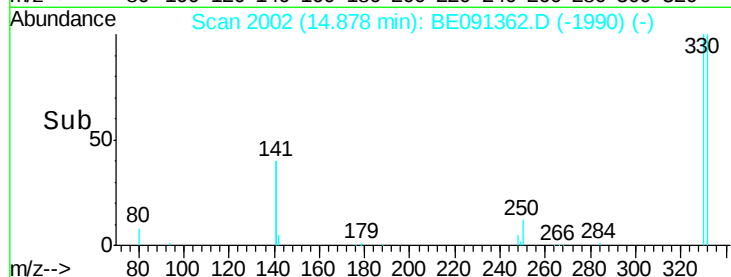
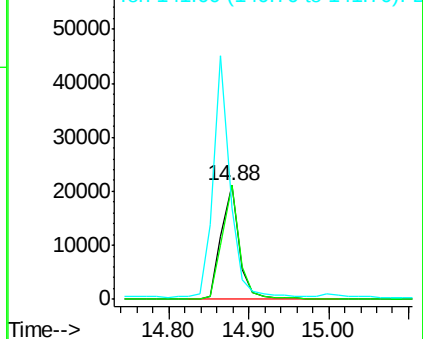
141 199.4 147.8 221.8



Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#10

2-Fluorobiphenyl

Concen: 10.90 ng

RT: 11.99 min Scan# 1598

Delta R.T. -0.02 min

Lab File: BE091362.D

Acq: 14 Jan 2016 22:06

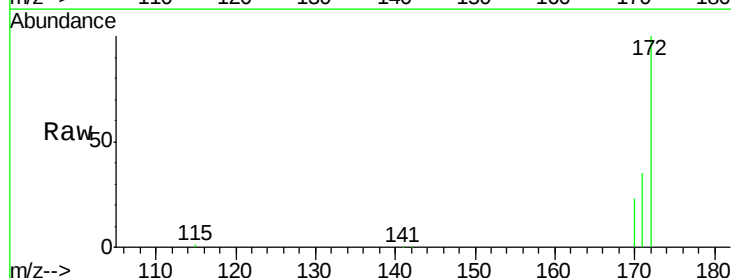
Tgt Ion:172 Resp: 266386

Ion Ratio Lower Upper

172 100

171 34.6 27.3 40.9

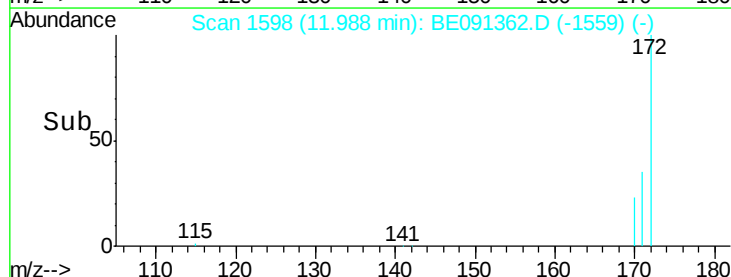
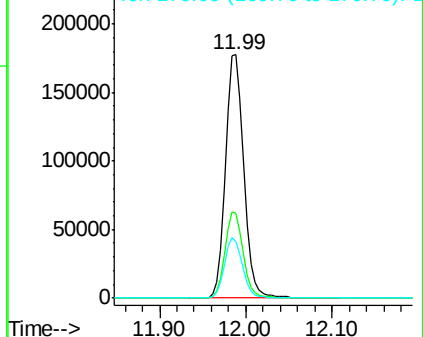
170 23.3 19.8 29.6

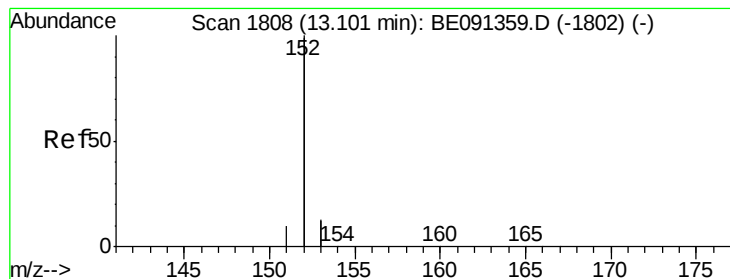


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#11

Acenaphthylene

Concen: 11.87 ng

RT: 13.09 min Scan# 1807

Delta R.T. -0.01 min

Lab File: BE091362.D

Acq: 14 Jan 2016 22:06

Instrument :

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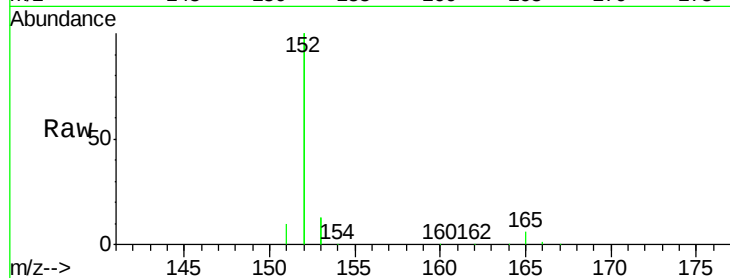
Tgt Ion:152 Resp: 1780301

Ion Ratio Lower Upper

152 100

151 4.9 3.8 5.8

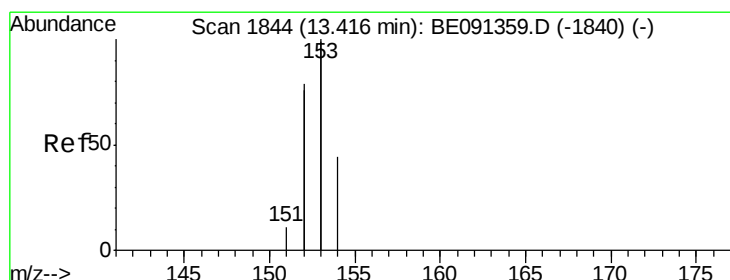
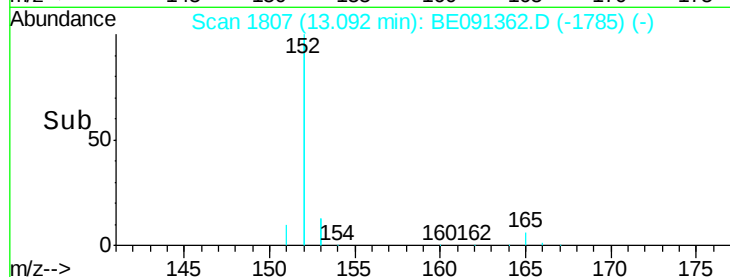
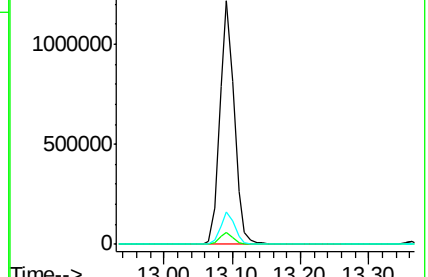
153 13.2 10.1 15.1



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



#12

Acenaphthene

Concen: 11.20 ng

RT: 13.41 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BE091362.D

Acq: 14 Jan 2016 22:06

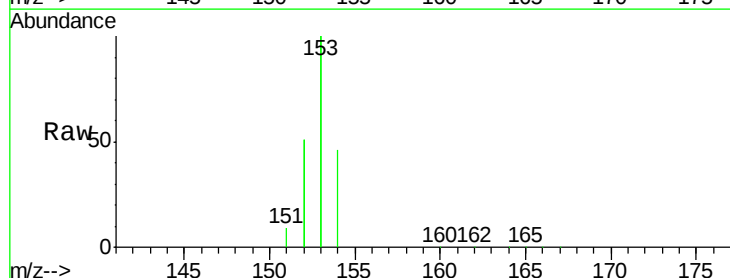
Tgt Ion:154 Resp: 279700

Ion Ratio Lower Upper

154 100

153 437.8 370.2 555.4

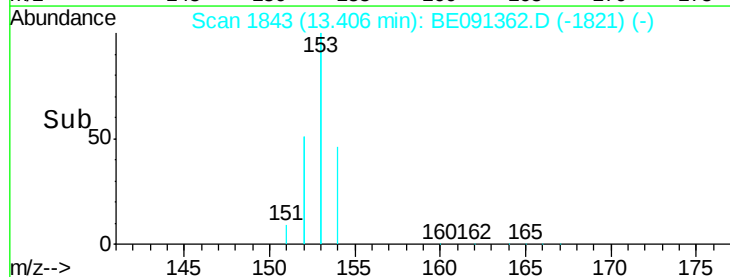
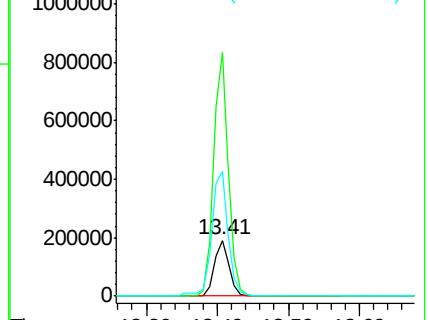
152 249.1 310.5 465.7#

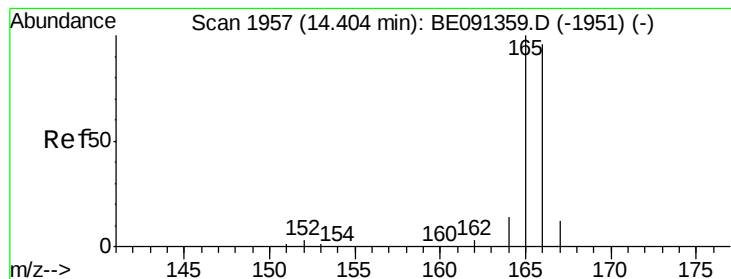


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#13

Fluorene

Concen: 12.15 ng

RT: 14.39 min Scan# 1956

Delta R.T. -0.01 min

Lab File: BE091362.D

Acq: 14 Jan 2016 22:06

Instrument :

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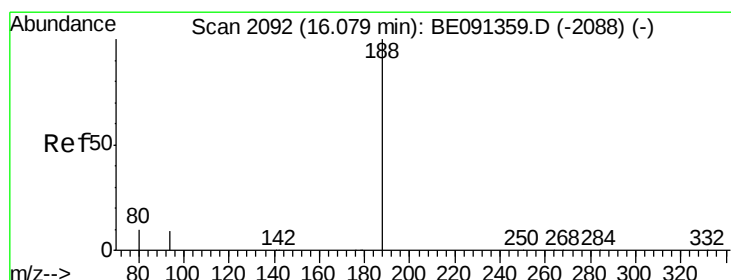
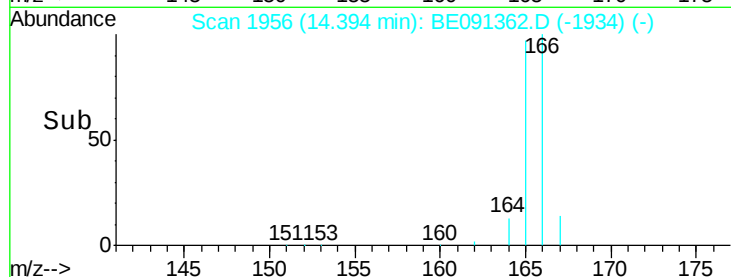
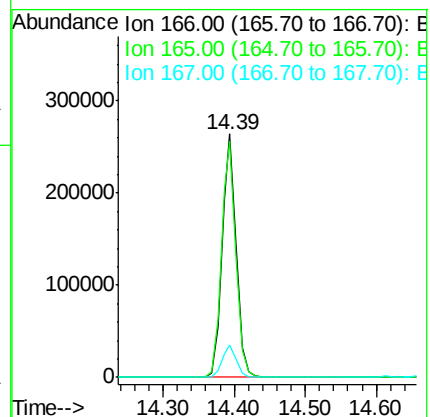
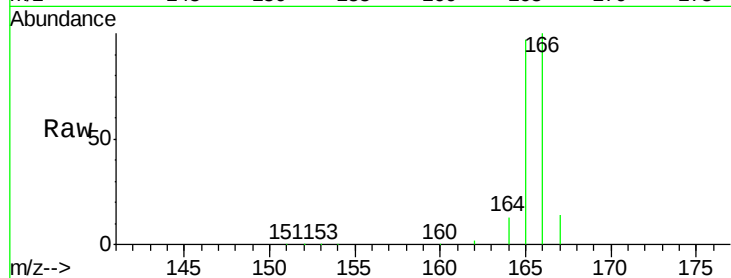
Tgt Ion:166 Resp: 370041

Ion Ratio Lower Upper

166 100

165 99.1 83.0 124.6

167 13.5 11.1 16.7



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.07 min Scan# 2091

Delta R.T. -0.01 min

Lab File: BE091362.D

Acq: 14 Jan 2016 22:06

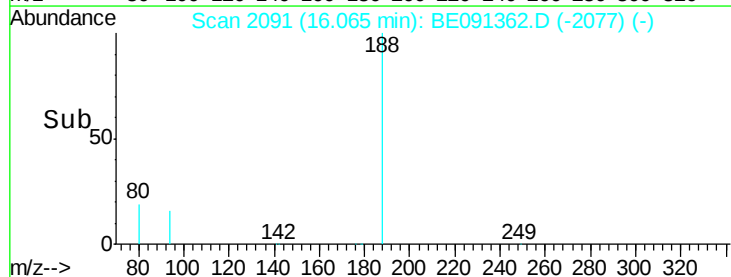
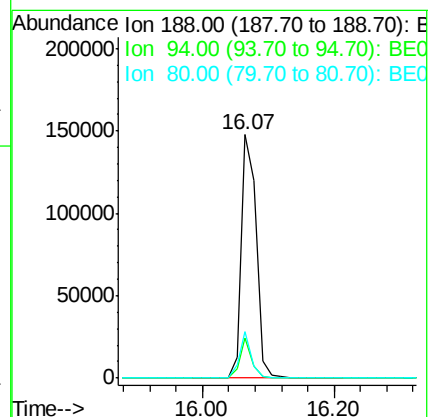
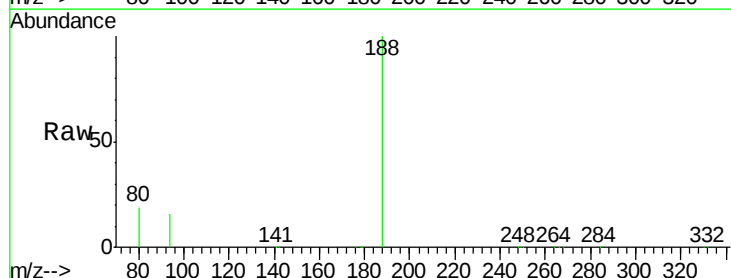
Tgt Ion:188 Resp: 236290

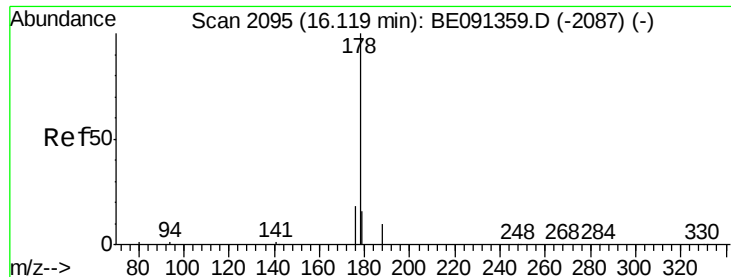
Ion Ratio Lower Upper

188 100

94 16.3 7.5 11.3#

80 18.9 8.2 12.2#





#15

Phenanthrene

Concen: 9.82 ng

RT: 16.11 min Scan# 2094

Delta R.T. -0.01 min

Lab File: BE091362.D

Acq: 14 Jan 2016 22:06

Instrument :

BNA_E

ClientSampleId :

SSTDICC010

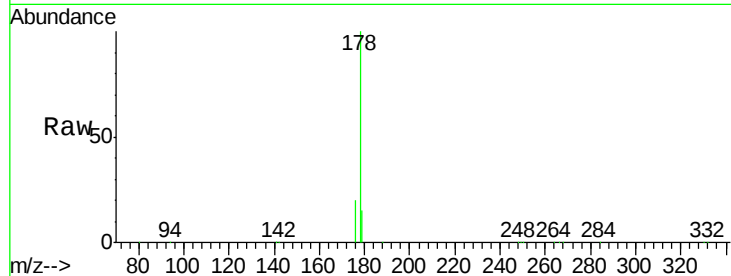
Tgt Ion:178 Resp: 594054

Ion Ratio Lower Upper

178 100

176 19.8 15.4 23.2

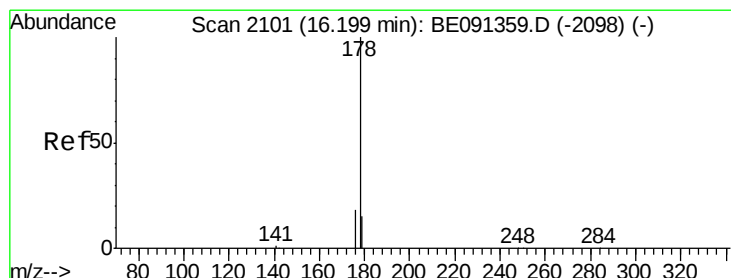
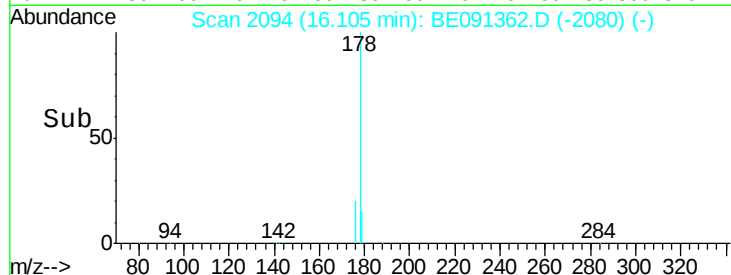
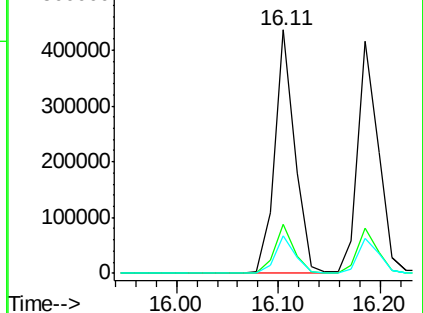
179 15.5 12.8 19.2



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



#16

Anthracene

Concen: 11.13 ng

RT: 16.19 min Scan# 2100

Delta R.T. -0.01 min

Lab File: BE091362.D

Acq: 14 Jan 2016 22:06

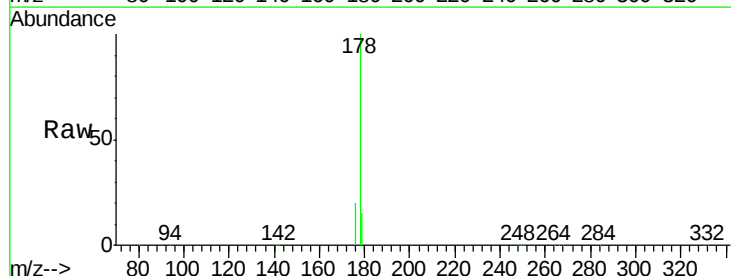
Tgt Ion:178 Resp: 583631

Ion Ratio Lower Upper

178 100

176 19.2 15.0 22.6

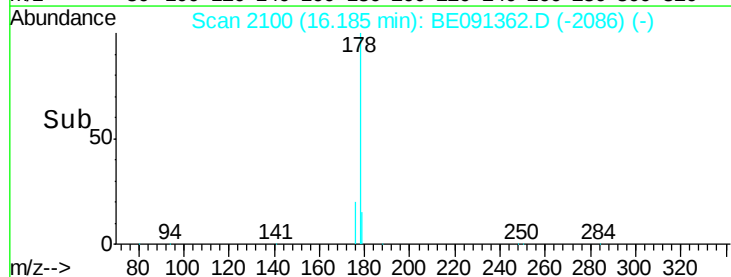
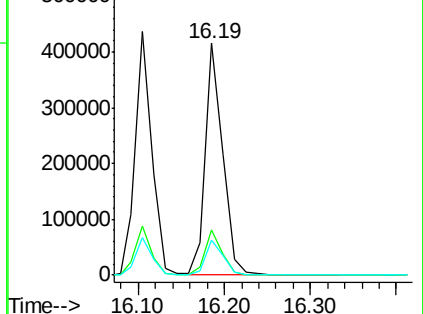
179 15.6 12.4 18.6

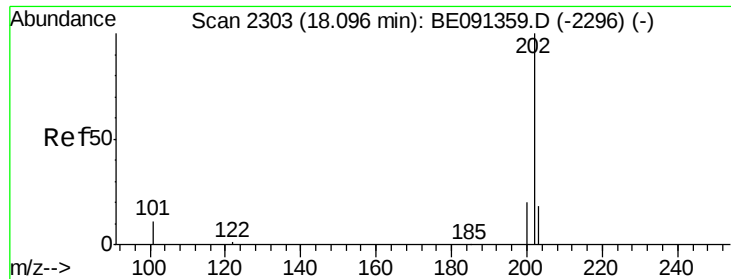


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

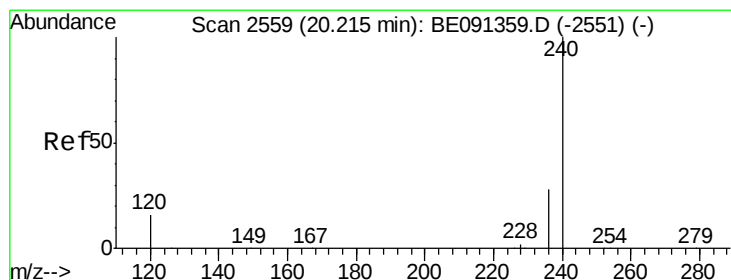
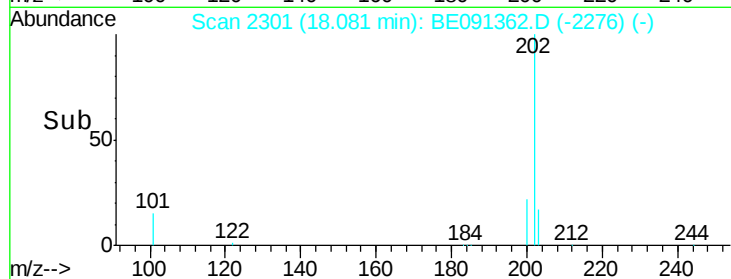
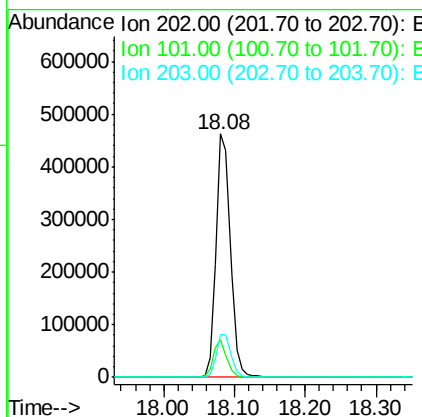
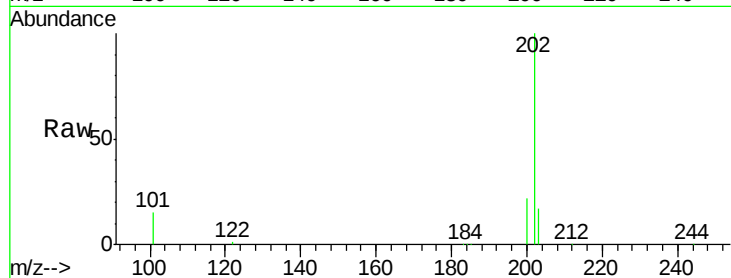




#17
Fluoranthene
 Concen: 9.28 ng
 RT: 18.08 min Scan# 2301
 Delta R.T. -0.02 min
 Lab File: BE091362.D
 Acq: 14 Jan 2016 22:06

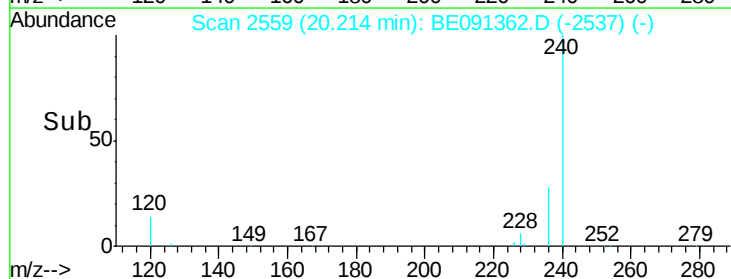
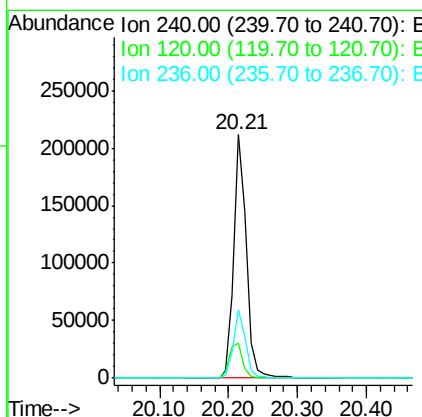
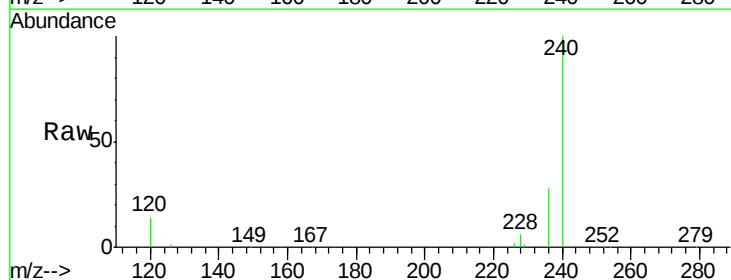
Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC010

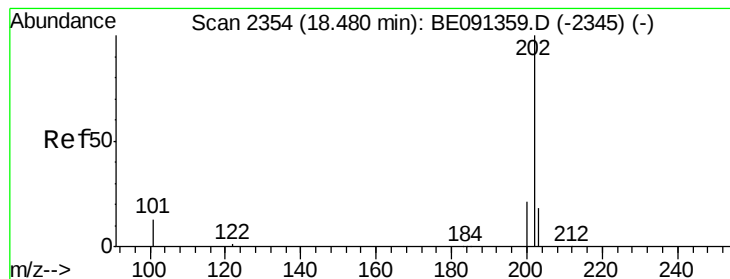
Tgt Ion:202 Resp: 645639
 Ion Ratio Lower Upper
 202 100
 101 14.6 11.0 16.4
 203 17.7 13.9 20.9



#18
Chrysene-d12
 Concen: 5.00 ng
 RT: 20.21 min Scan# 2559
 Delta R.T. -0.00 min
 Lab File: BE091362.D
 Acq: 14 Jan 2016 22:06

Tgt Ion:240 Resp: 262761
 Ion Ratio Lower Upper
 240 100
 120 14.4 12.6 19.0
 236 27.8 22.7 34.1





#19

Pyrene

Concen: 10.79 ng

RT: 18.46 min Scan# 2352

Delta R.T. -0.02 min

Lab File: BE091362.D

Acq: 14 Jan 2016 22:06

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

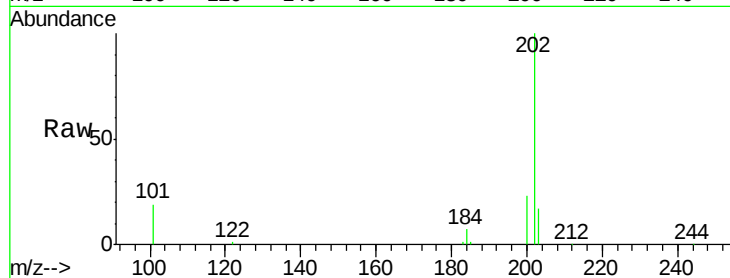
Tgt Ion:202 Resp: 691941

Ion Ratio Lower Upper

202 100

200 21.8 17.2 25.8

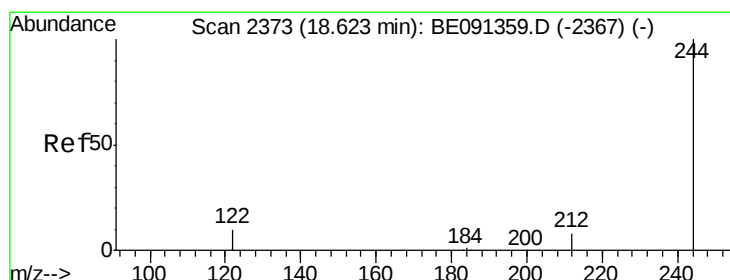
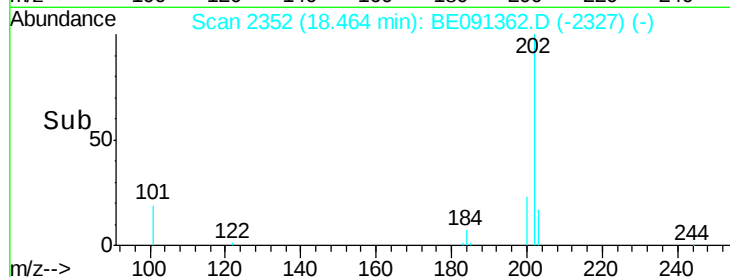
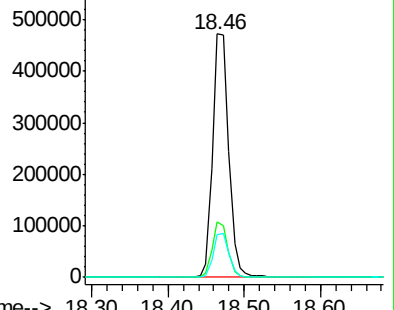
203 17.7 14.2 21.4



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



#20

Terphenyl-d14

Concen: 12.23 ng

RT: 18.61 min Scan# 2371

Delta R.T. -0.02 min

Lab File: BE091362.D

Acq: 14 Jan 2016 22:06

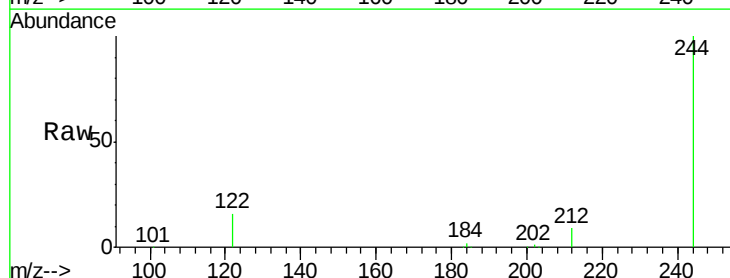
Tgt Ion:244 Resp: 393493

Ion Ratio Lower Upper

244 100

212 8.6 7.0 10.4

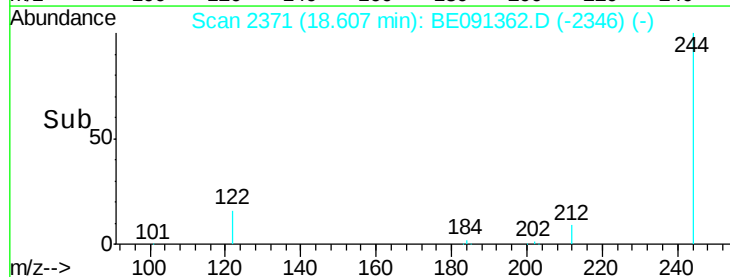
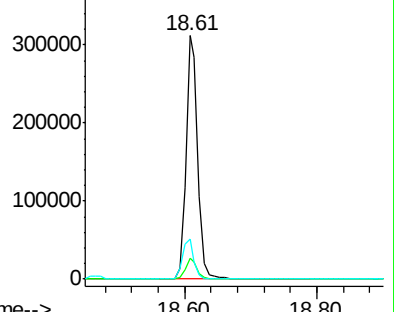
122 16.3 8.5 12.7#

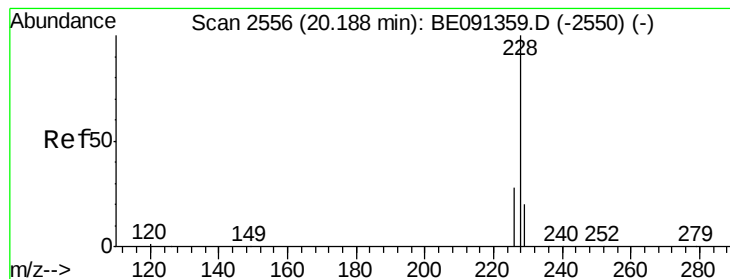


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

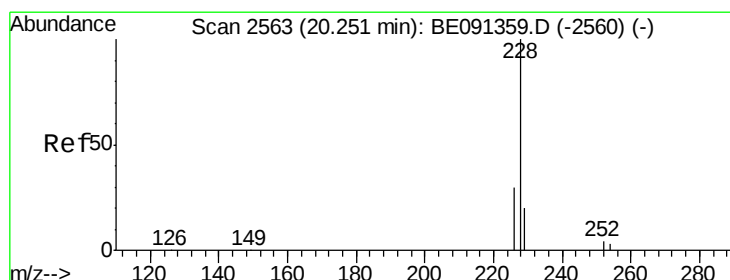
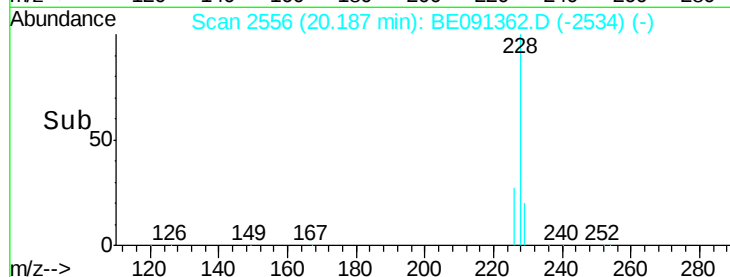
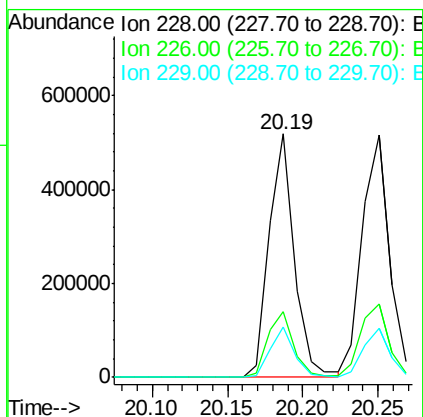
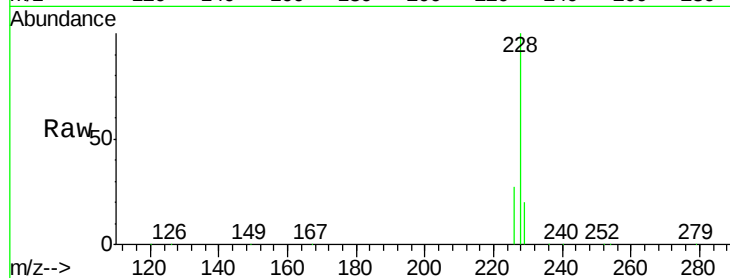




#21
Benzo(a)anthracene
Concen: 10.39 ng
RT: 20.19 min Scan# 2556
Delta R.T. -0.00 min
Lab File: BE091362.D
Acq: 14 Jan 2016 22:06

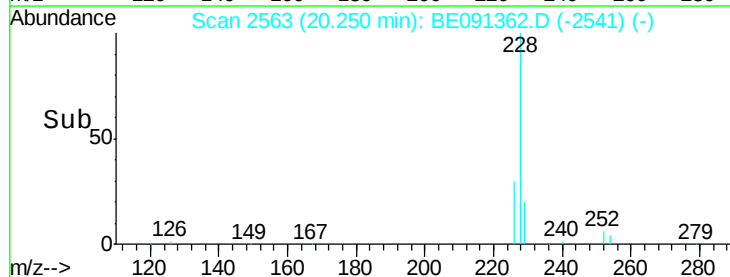
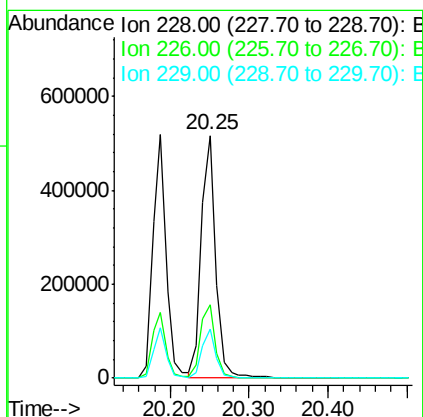
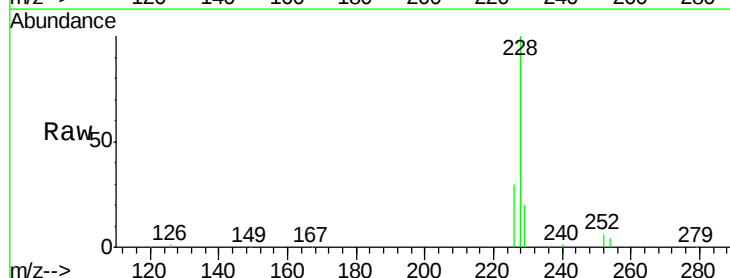
Instrument :
BNA_E
ClientSampleId :
SSTDIC010

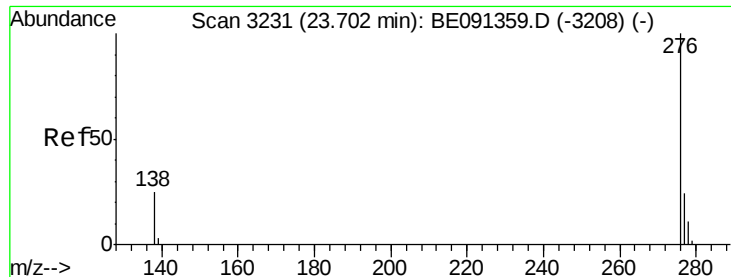
Tgt Ion:228 Resp: 606163
Ion Ratio Lower Upper
228 100
226 26.9 22.5 33.7
229 20.5 16.2 24.4



#22
Chrysene
Concen: 8.44 ng
RT: 20.25 min Scan# 2563
Delta R.T. -0.00 min
Lab File: BE091362.D
Acq: 14 Jan 2016 22:06

Tgt Ion:228 Resp: 663381
Ion Ratio Lower Upper
228 100
226 30.4 23.7 35.5
229 20.2 16.0 24.0





#23

Indeno(1,2,3-cd)pyrene

Concen: 9.08 ng

RT: 23.69 min Scan# 3230

Delta R.T. -0.01 min

Lab File: BE091362.D

Acq: 14 Jan 2016 22:06

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

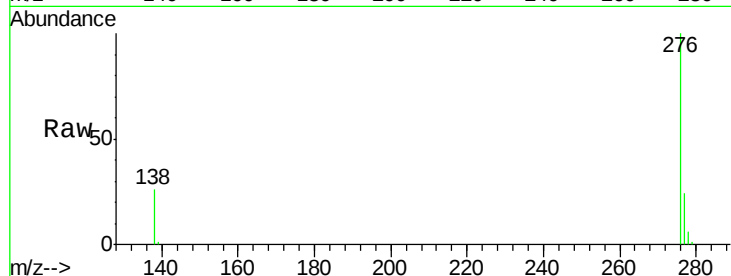
Tgt Ion:276 Resp: 557555

Ion Ratio Lower Upper

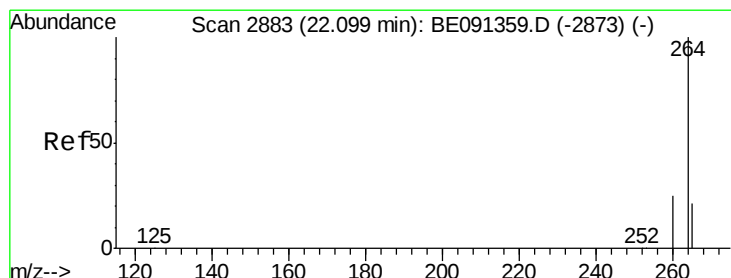
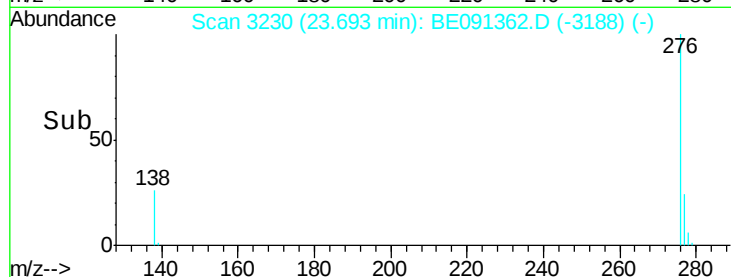
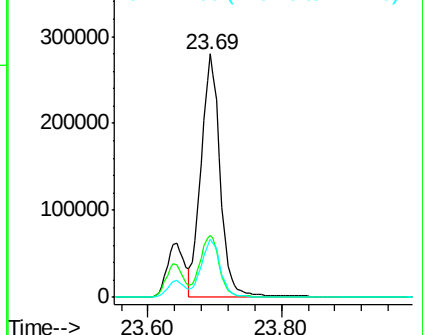
276 100

138 25.8 18.6 27.8

277 23.6 16.5 24.7



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



#24

Perylene-d12

Concen: 5.00 ng

RT: 22.10 min Scan# 2883

Delta R.T. -0.00 min

Lab File: BE091362.D

Acq: 14 Jan 2016 22:06

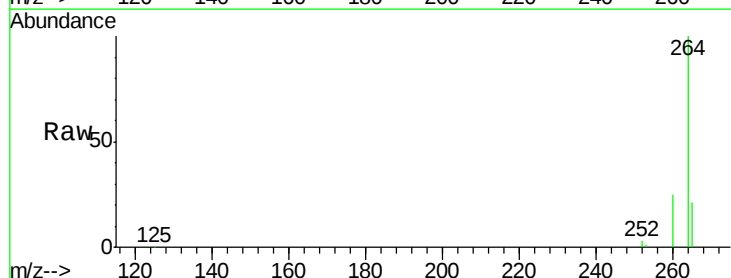
Tgt Ion:264 Resp: 212944

Ion Ratio Lower Upper

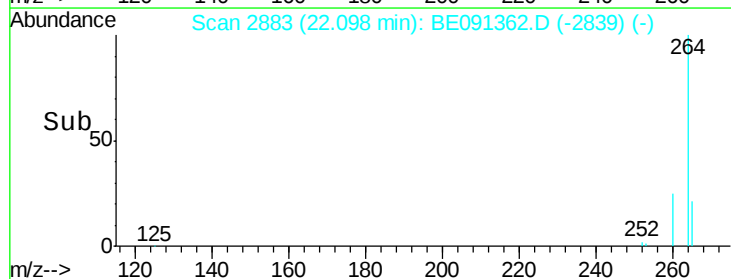
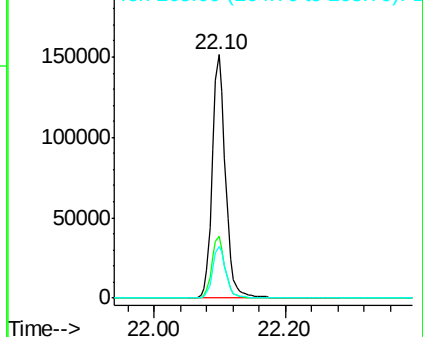
264 100

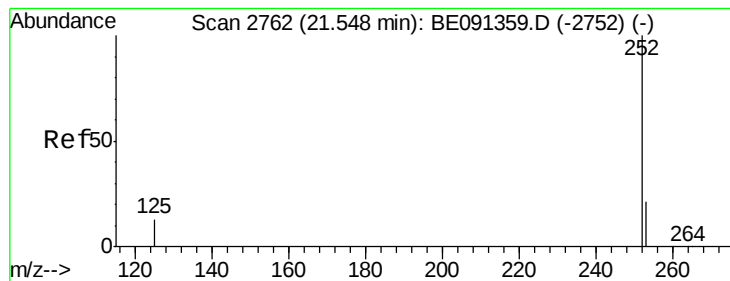
260 25.4 20.4 30.6

265 21.4 17.2 25.8



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





#25

Benzo(b)fluoranthene

Concen: 12.09 ng

RT: 21.54 min Scan# 2761

Delta R.T. -0.01 min

Lab File: BE091362.D

Acq: 14 Jan 2016 22:06

Instrument :

BNA_E

ClientSampleId :

SSTDIC010

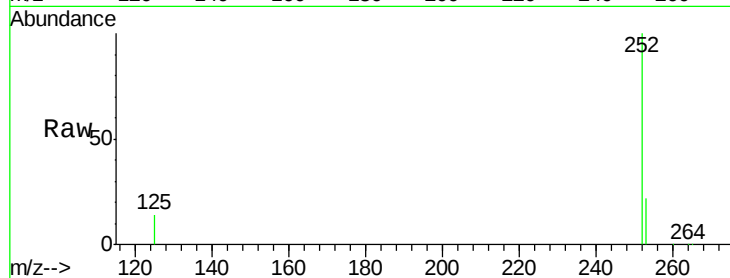
Tgt Ion:252 Resp: 551617

Ion Ratio Lower Upper

252 100

253 21.7 17.4 26.2

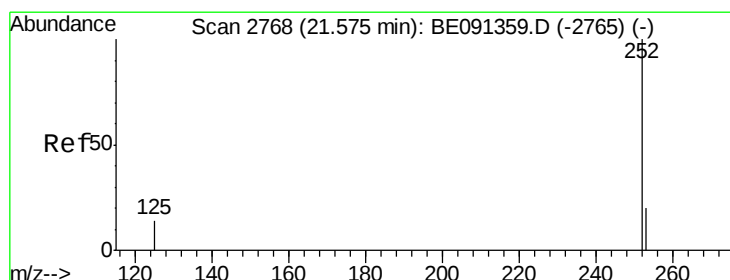
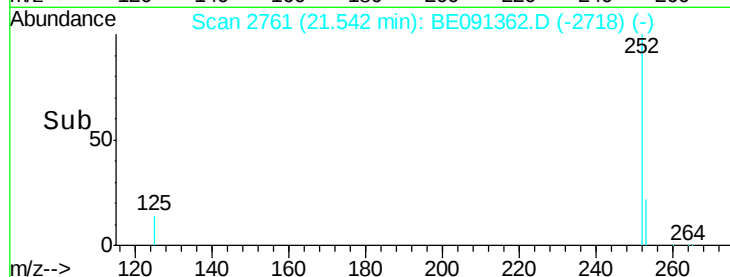
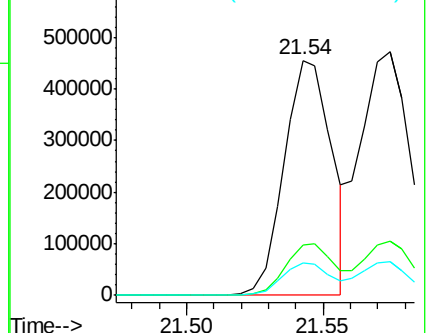
125 14.0 11.0 16.6



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



#26

Benzo(k)fluoranthene

Concen: 10.16 ng

RT: 21.57 min Scan# 2768

Delta R.T. -0.00 min

Lab File: BE091362.D

Acq: 14 Jan 2016 22:06

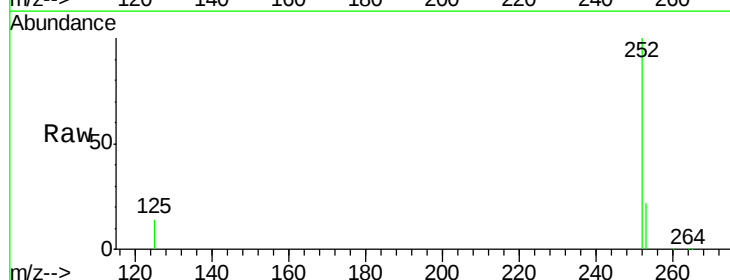
Tgt Ion:252 Resp: 634706

Ion Ratio Lower Upper

252 100

253 22.3 17.5 26.3

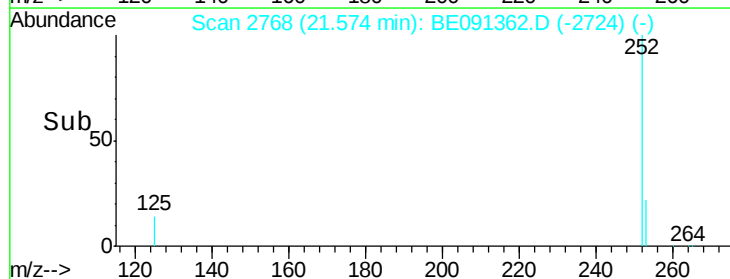
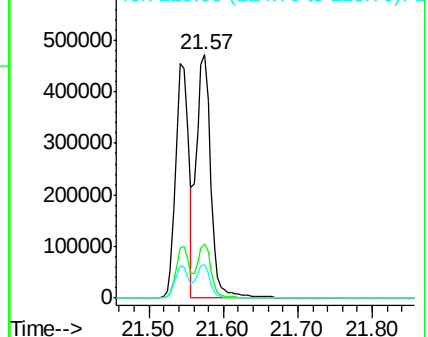
125 13.8 11.3 16.9

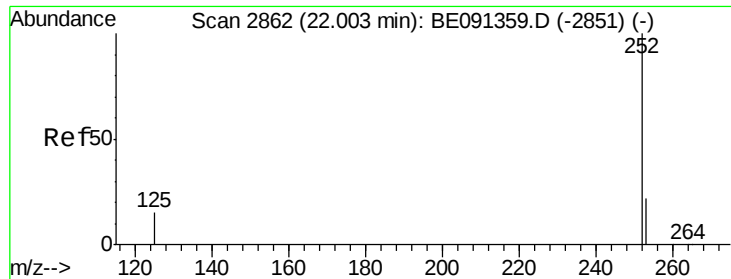


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#27

Benzo(a)pyrene

Concen: 12.62 ng

RT: 22.00 min Scan# 2862

Delta R.T. -0.00 min

Lab File: BE091362.D

Acq: 14 Jan 2016 22:06

Instrument :

BNA_E

ClientSampleId :

SSTDICC010

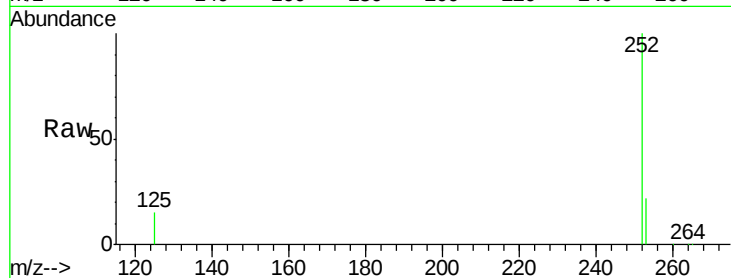
Tgt Ion:252 Resp: 547735

Ion Ratio Lower Upper

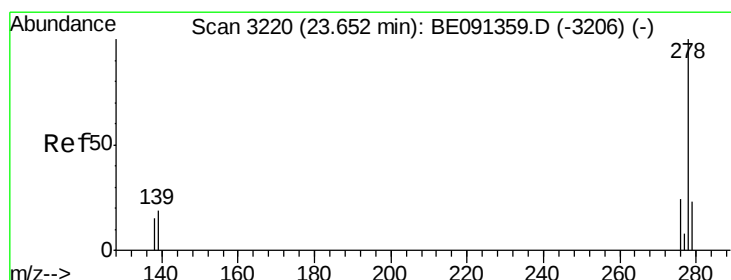
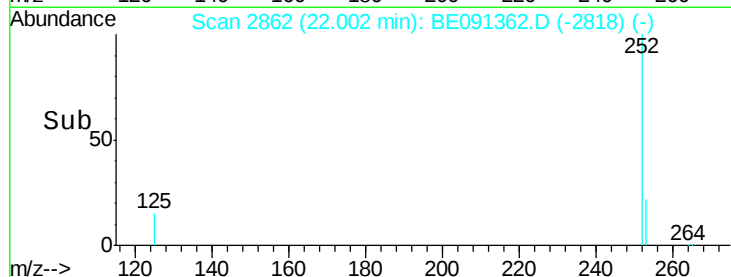
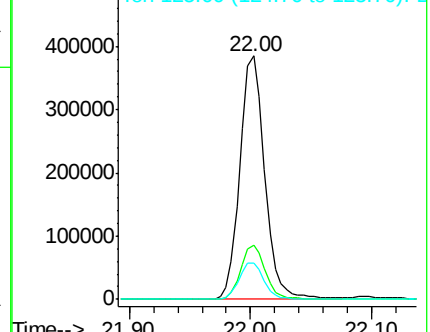
252 100

253 22.3 18.1 27.1

125 15.0 12.2 18.4



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



#28

Dibenzo(a,h)anthracene

Concen: 12.61 ng

RT: 23.64 min Scan# 3219

Delta R.T. -0.01 min

Lab File: BE091362.D

Acq: 14 Jan 2016 22:06

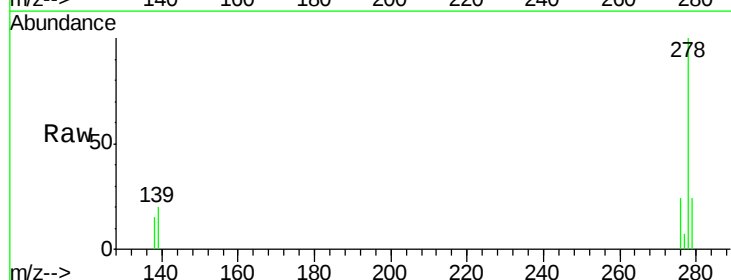
Tgt Ion:278 Resp: 519450

Ion Ratio Lower Upper

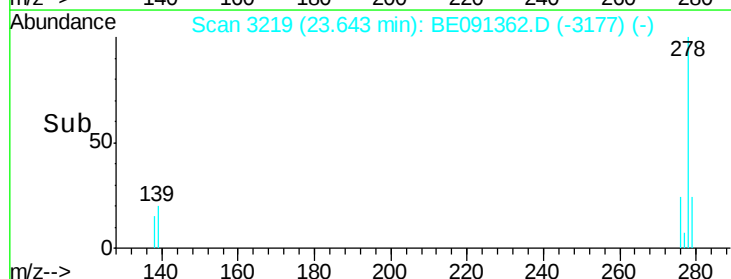
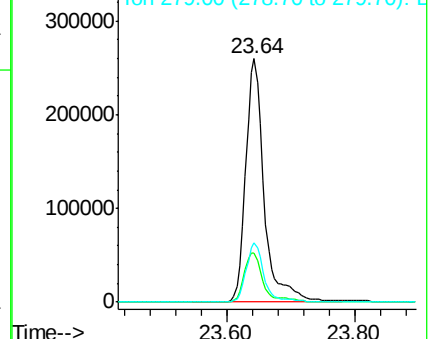
278 100

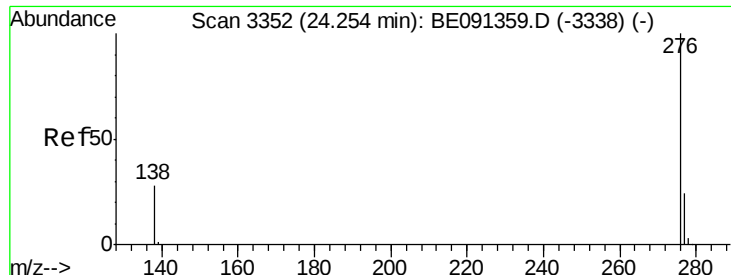
139 20.2 16.3 24.5

279 24.2 19.4 29.2



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





#29

Benzo(g,h,i)perylene

Concen: 12.21 ng

RT: 24.24 min Scan# 3351

Delta R.T. -0.01 min

Lab File: BE091362.D

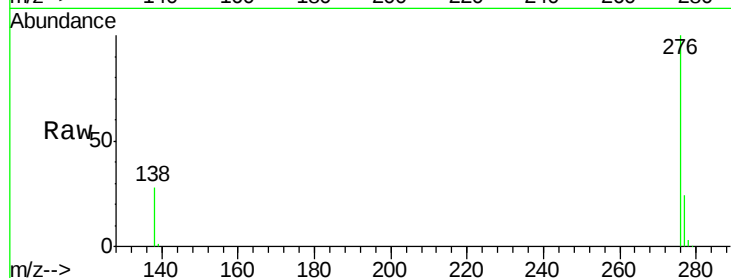
Acq: 14 Jan 2016 22:06

Instrument :

BNA_E

ClientSampleId :

SSTDIC010



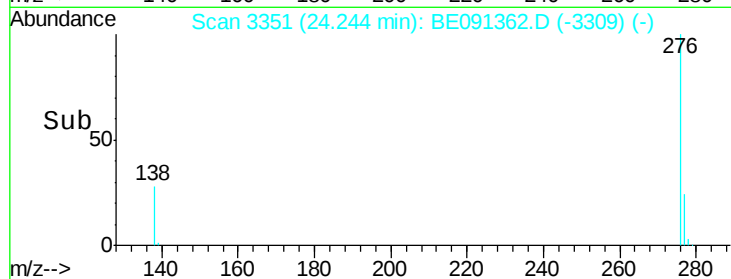
Tgt Ion: 276 Resp: 554331

Ion Ratio Lower Upper

276 100

277 23.7 19.8 29.6

138 27.7 23.3 34.9



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

