

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088422.D
 Acq On : 31 Oct 2014 14:46
 Operator : TP/JJ
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.1

Quant Time: Nov 01 00:24:24 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE103114.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 01 00:20:37 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	39301	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	149770	5.00	ng	0.00
7) Acenaphthene-d10	10.79	164	68851	5.00	ng	0.00
12) Phenanthrene-d10	12.90	188	125343	5.00	ng	0.00
16) Chrysene-d12	18.31	240	59649	5.00	ng	0.00
22) Perylene-d12	21.37	264	53837	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.78	82	995	0.09	ng	0.00
8) 2-Fluorobiphenyl	9.98	172	1927	0.10	ng	0.00
18) Terphenyl-d14	16.08	244	1016	0.09	ng	0.00

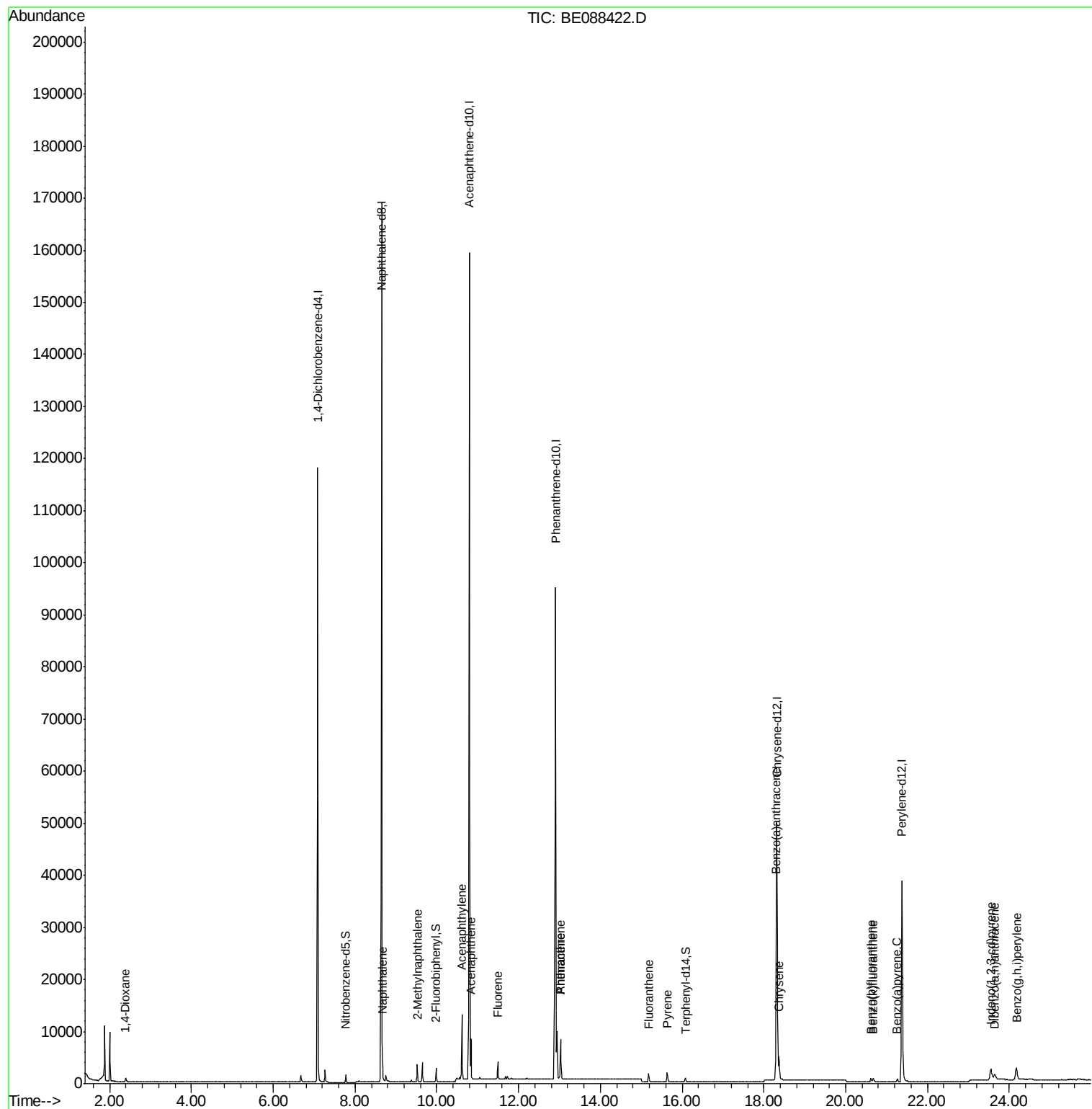
Target Compounds						Qvalue
2) 1,4-Dioxane	2.39	88	503	0.10	ng	# 84
5) Naphthalene	8.68	128	3095	0.10	ng	# 98
6) 2-Methylnaphthalene	9.53	142	1846	0.10	ng	# 99
9) Acenaphthylene	10.62	152	11982	0.11	ng	# 98
10) Acenaphthene	10.84	154	1807	0.11	ng	# 86
11) Fluorene	11.50	166	1700	0.10	ng	# 98
13) Phenanthrene	13.03	178	9516	0.07	ng	# 99
14) Anthracene	13.03	178	9516	0.10	ng	# 99
15) Fluoranthene	15.18	202	1696	0.09	ng	# 100
17) Pyrene	15.63	202	1801	0.09	ng	# 100
19) Benzo(a)anthracene	18.29	228	5828	0.10	ng	# 91
20) Chrysene	18.36	228	5507	0.10	ng	# 92
21) Indeno(1,2,3-cd)pyrene	23.55	276	4038	0.08	ng	# 85
23) Benzo(b)fluoranthene	20.62	252	1109	0.09	ng	# 84
24) Benzo(k)fluoranthene	20.68	252	1215	0.09	ng	# 84
25) Benzo(a)pyrene	21.26	252	1066	0.09	ng	# 83
26) Dibenzo(a,h)anthracene	23.64	278	1004	0.10	ng	# 73
27) Benzo(g,h,i)perylene	24.17	276	4952	0.10	ng	# 85

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

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Nov 01 00:20:37 2014
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.09 min Scan# 1246

Delta R.T. -0.00 min

Lab File: BE088422.D

Acq: 31 Oct 2014 14:46

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.1

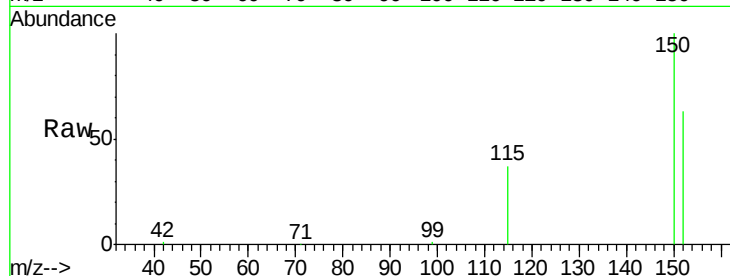
Tgt Ion: 152 Resp: 39301

Ion Ratio Lower Upper

152 100

150 157.8 121.8 182.8

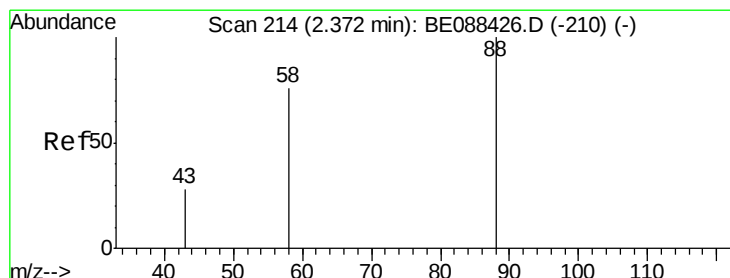
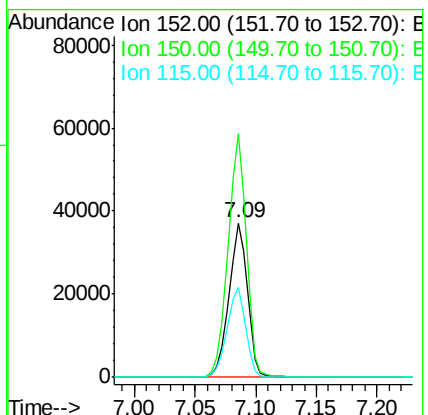
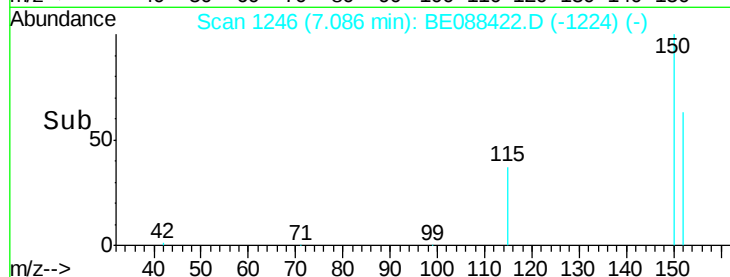
115 58.8 43.9 65.9



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: 0.10 ng

RT: 2.39 min Scan# 218

Delta R.T. 0.02 min

Lab File: BE088422.D

Acq: 31 Oct 2014 14:46

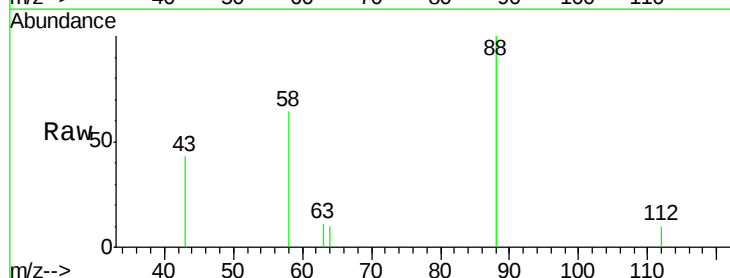
Tgt Ion: 88 Resp: 503

Ion Ratio Lower Upper

88 100

58 72.0 59.1 88.7

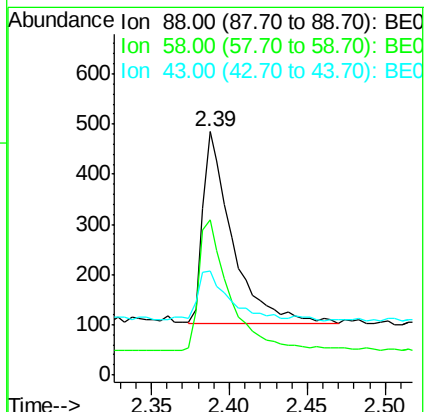
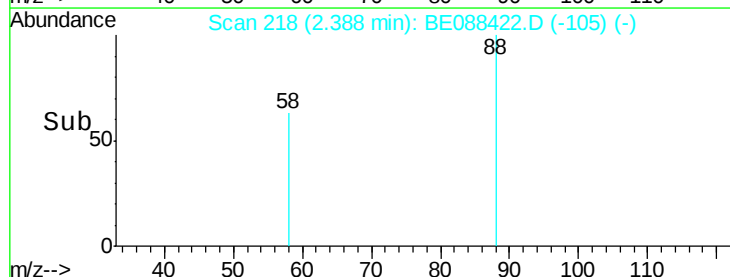
43 0.0 21.9 32.9#

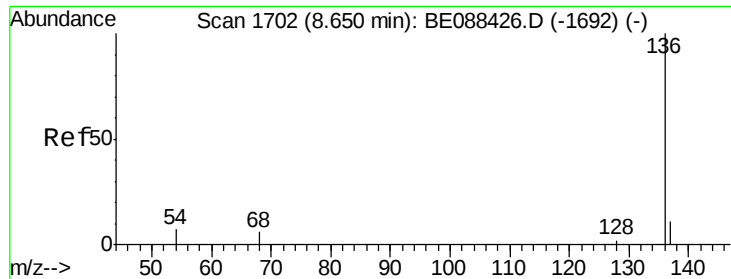


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.65 min Scan# 1701

Delta R.T. -0.00 min

Lab File: BE088422.D

Acq: 31 Oct 2014 14:46

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.1

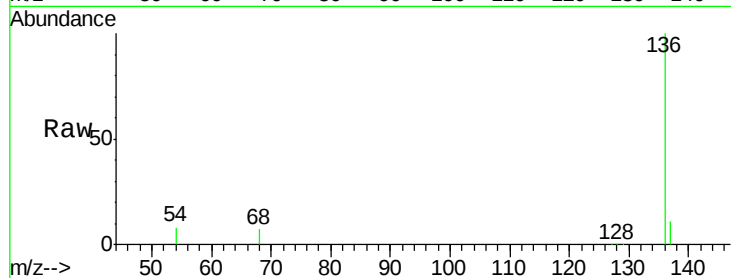
Tgt Ion:136 Resp: 149770

Ion Ratio Lower Upper

136 100

137 10.8 8.8 13.2

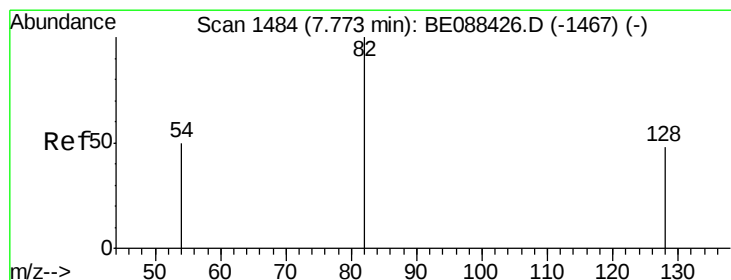
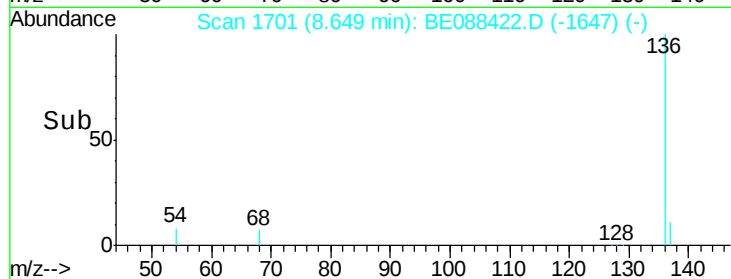
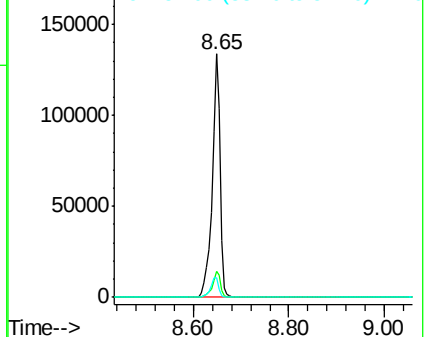
54 7.8 5.3 7.9



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): E



#4

Nitrobenzene-d5

Concen: 0.09 ng

RT: 7.78 min Scan# 1485

Delta R.T. 0.00 min

Lab File: BE088422.D

Acq: 31 Oct 2014 14:46

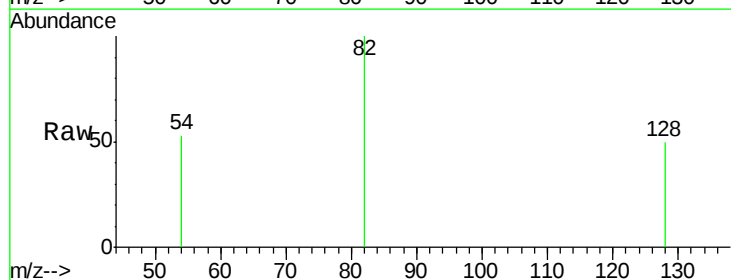
Tgt Ion: 82 Resp: 995

Ion Ratio Lower Upper

82 100

128 49.9 38.4 57.6

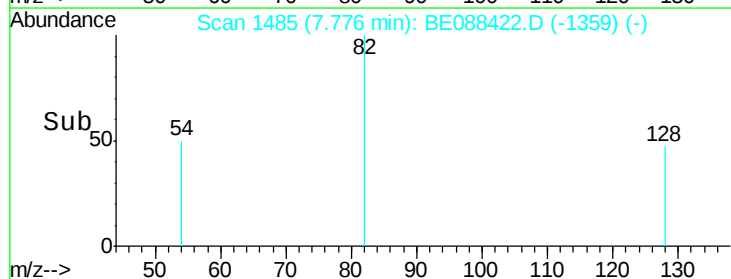
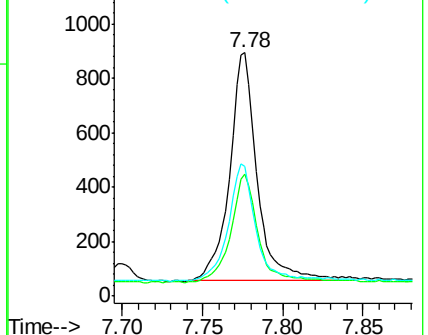
54 53.2 40.2 60.2



Abundance Ion 82.00 (81.70 to 82.70): E

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): E

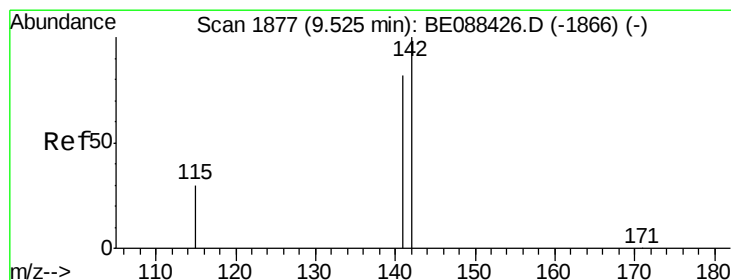
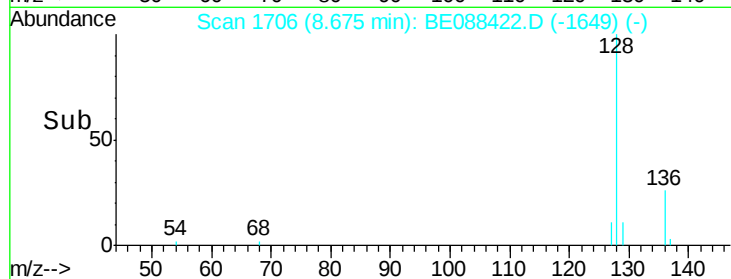
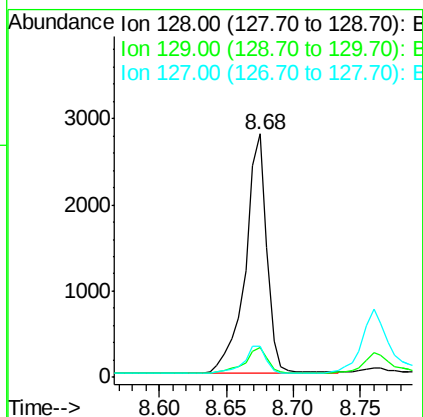
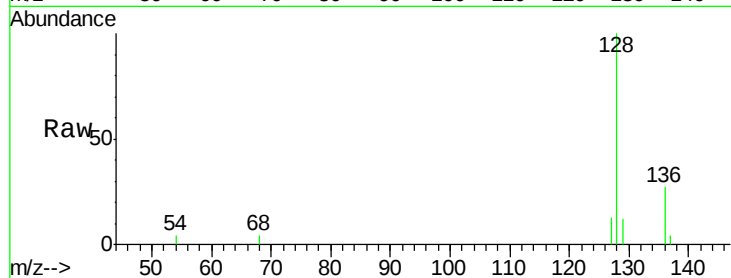




#5
Naphthalene
Concen: 0.10 ng
RT: 8.68 min Scan# 1706
Delta R.T. 0.00 min
Lab File: BE088422.D
Acq: 31 Oct 2014 14:46

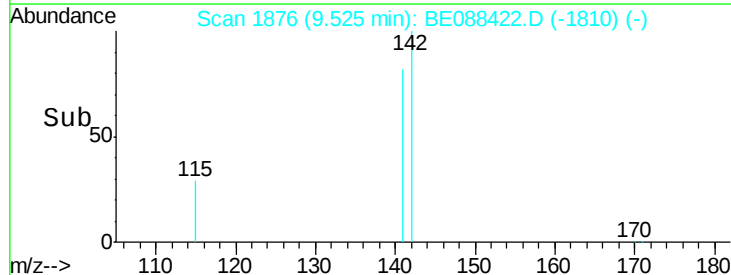
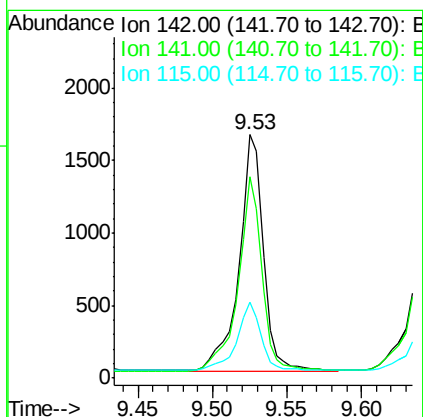
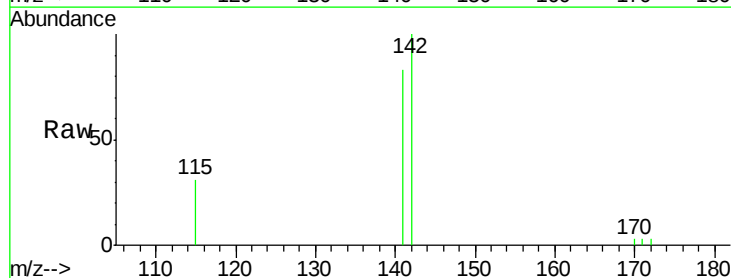
Instrument :
BNA_E
ClientSampleId :
SSTDIC0.1

Tgt Ion:128 Resp: 3095
Ion Ratio Lower Upper
128 100
129 12.5 8.6 12.8
127 12.8 10.1 15.1



#6
2-Methylnaphthalene
Concen: 0.10 ng
RT: 9.53 min Scan# 1876
Delta R.T. 0.00 min
Lab File: BE088422.D
Acq: 31 Oct 2014 14:46

Tgt Ion:142 Resp: 1846
Ion Ratio Lower Upper
142 100
141 82.8 65.8 98.8
115 31.3 24.2 36.4





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.79 min Scan# 2108

Delta R.T. 0.00 min

Lab File: BE088422.D

Acq: 31 Oct 2014 14:46

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.1

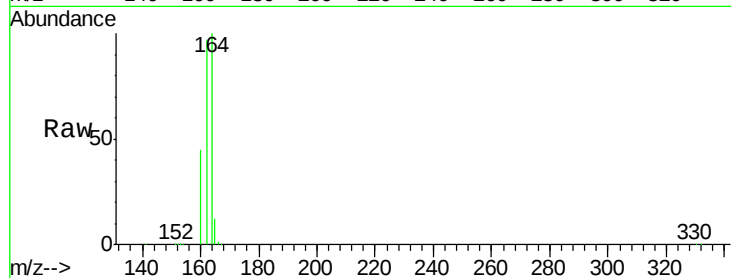
Tgt Ion:164 Resp: 68851

Ion Ratio Lower Upper

164 100

162 96.8 77.0 115.4

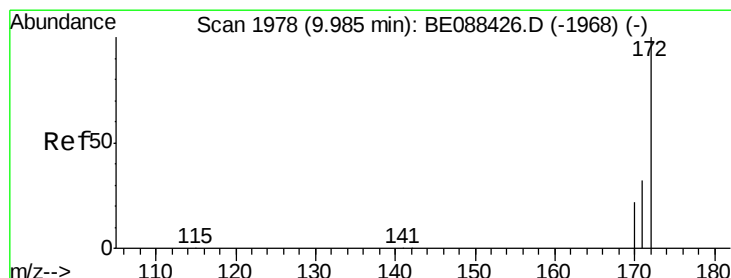
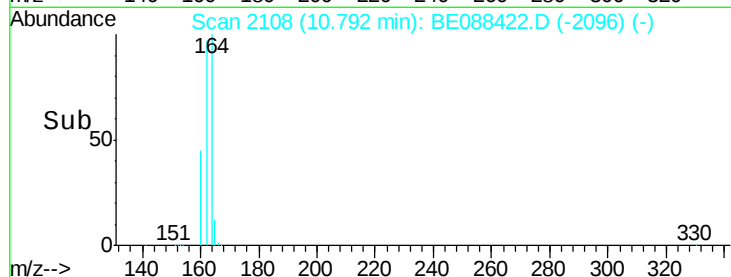
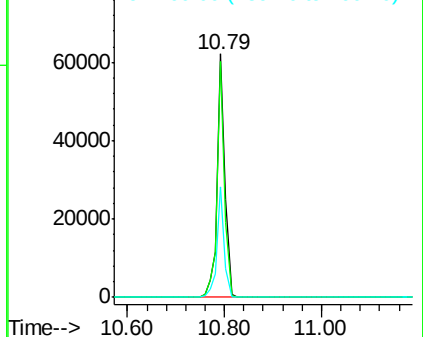
160 45.3 36.8 55.2



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



#8

2-Fluorobiphenyl

Concen: 0.10 ng

RT: 9.98 min Scan# 1977

Delta R.T. 0.00 min

Lab File: BE088422.D

Acq: 31 Oct 2014 14:46

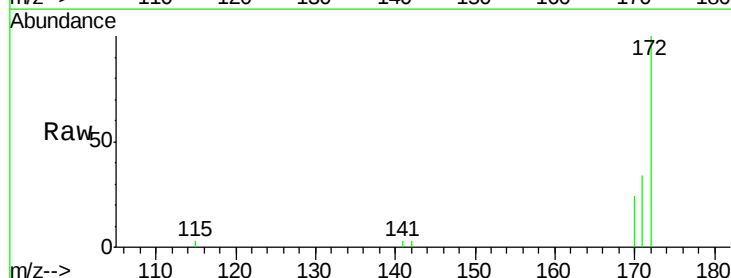
Tgt Ion:172 Resp: 1927

Ion Ratio Lower Upper

172 100

171 34.2 26.0 39.0

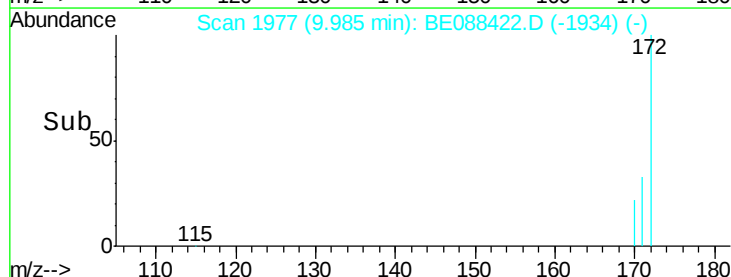
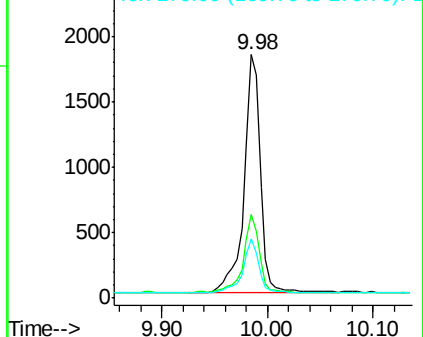
170 24.2 17.6 26.4



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





#9

Acenaphthylene

Concen: 0.11 ng

RT: 10.62 min Scan# 2092

Delta R.T. 0.00 min

Lab File: BE088422.D

Acq: 31 Oct 2014 14:46

Instrument :

BNA_E

ClientSampleId :

SSTDICC0.1

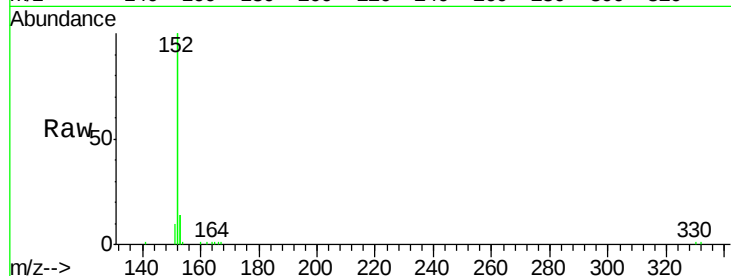
Tgt Ion:152 Resp: 11982

Ion Ratio Lower Upper

152 100

151 4.7 4.4 6.6

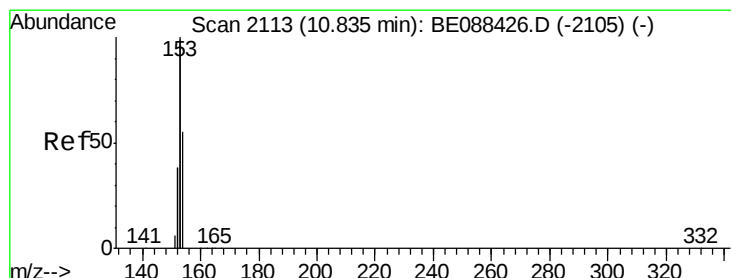
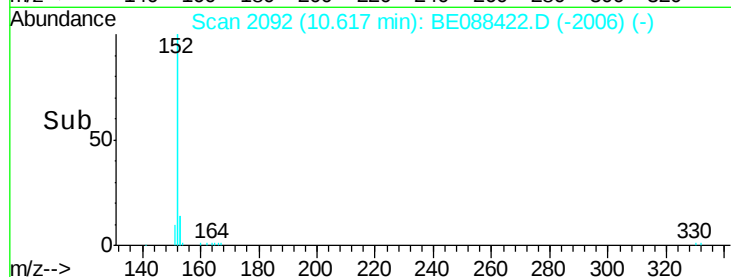
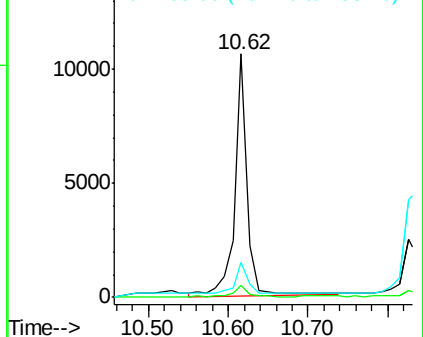
153 13.6 10.5 15.7



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#10

Acenaphthene

Concen: 0.11 ng

RT: 10.84 min Scan# 2112

Delta R.T. 0.00 min

Lab File: BE088422.D

Acq: 31 Oct 2014 14:46

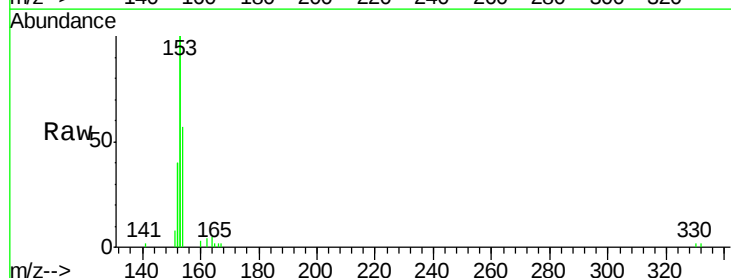
Tgt Ion:154 Resp: 1807

Ion Ratio Lower Upper

154 100

153 357.3 324.3 486.5

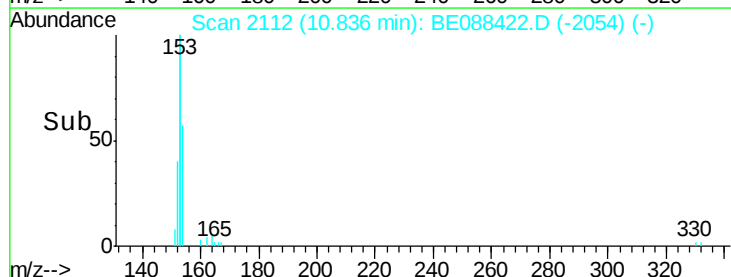
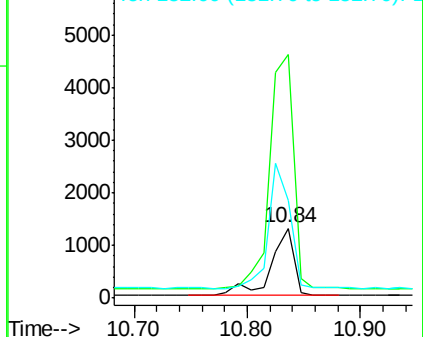
152 194.6 154.9 232.3

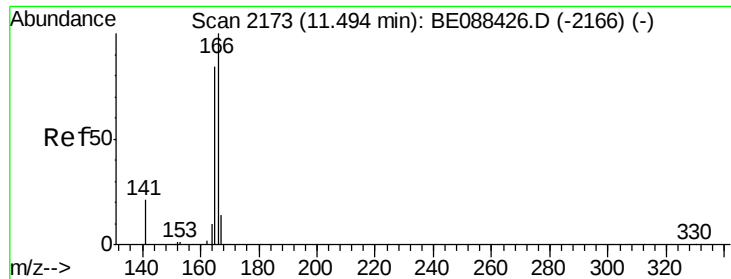


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 0.10 ng

RT: 11.50 min Scan# 2172

Delta R.T. 0.00 min

Lab File: BE088422.D

Acq: 31 Oct 2014 14:46

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.1

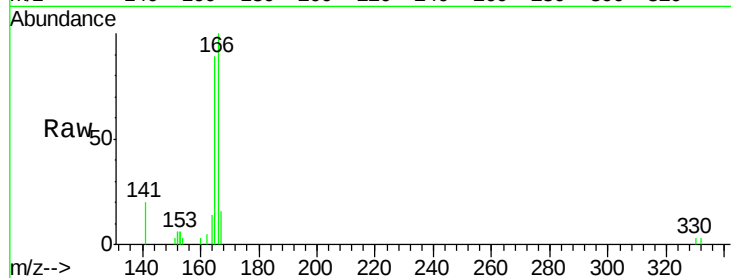
Tgt Ion:166 Resp: 1700

Ion Ratio Lower Upper

166 100

165 91.0 71.3 106.9

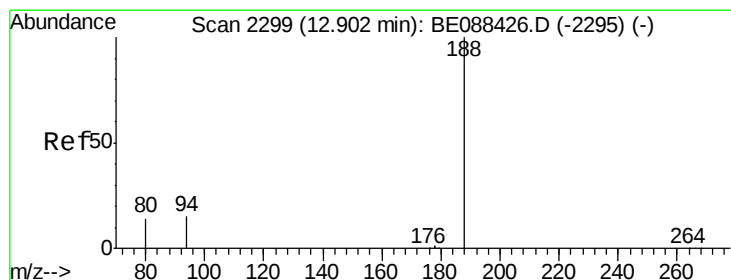
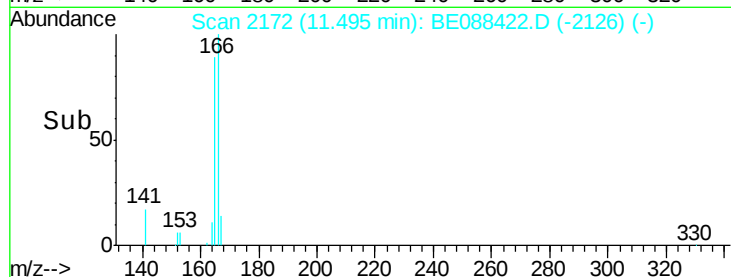
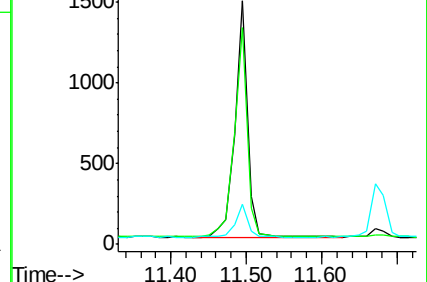
167 13.5 10.7 16.1



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



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.90 min Scan# 2298

Delta R.T. 0.00 min

Lab File: BE088422.D

Acq: 31 Oct 2014 14:46

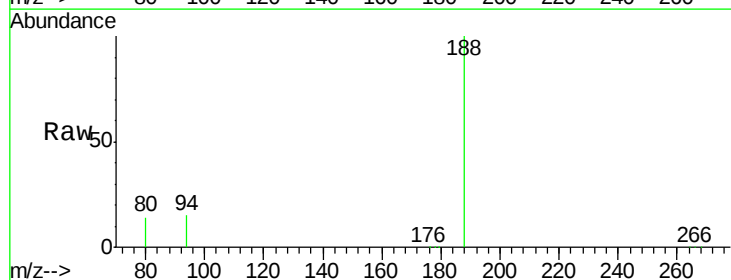
Tgt Ion:188 Resp: 125343

Ion Ratio Lower Upper

188 100

94 15.3 11.8 17.8

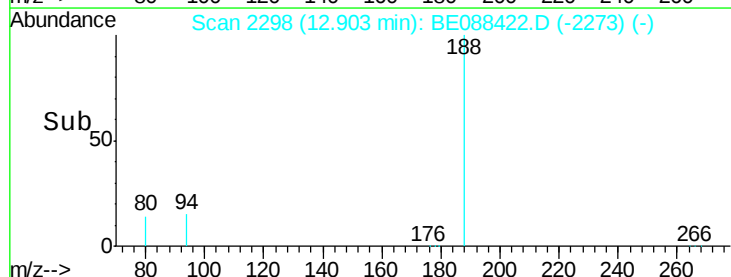
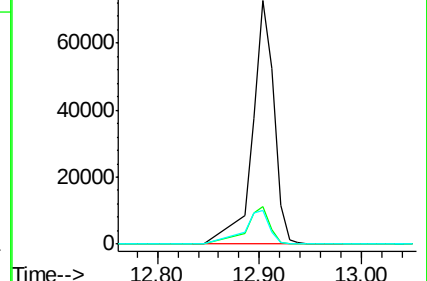
80 14.1 10.9 16.3

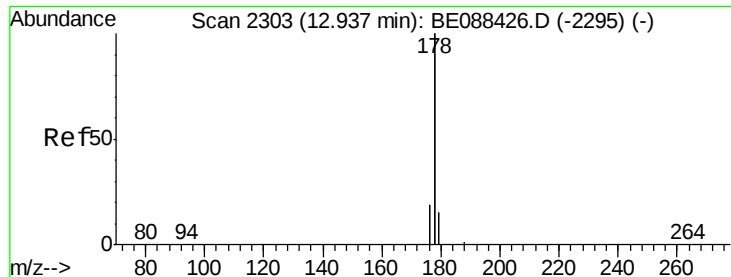


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 0.07 ng

RT: 13.03 min Scan# 2313

Delta R.T. 0.10 min

Lab File: BE088422.D

Acq: 31 Oct 2014 14:46

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.1

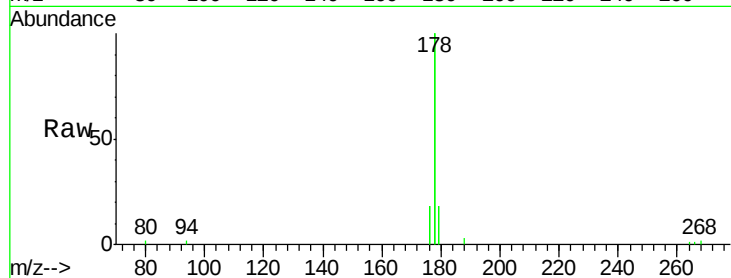
Tgt Ion:178 Resp: 9516

Ion Ratio Lower Upper

178 100

176 18.7 15.4 23.2

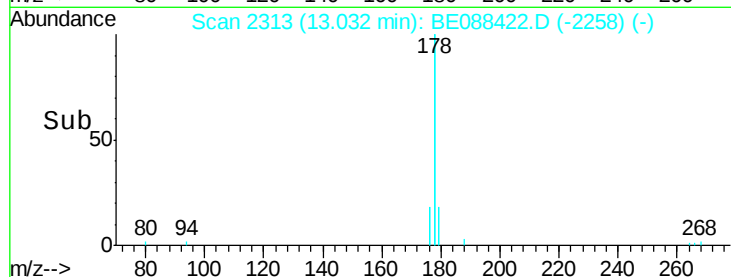
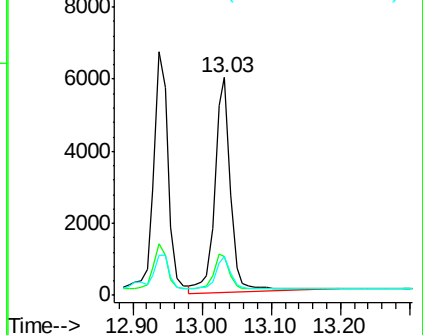
179 16.4 12.8 19.2



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



#14

Anthracene

Concen: 0.10 ng

RT: 13.03 min Scan# 2313

Delta R.T. 0.01 min

Lab File: BE088422.D

Acq: 31 Oct 2014 14:46

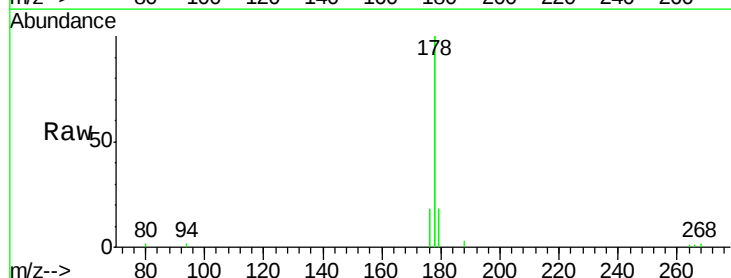
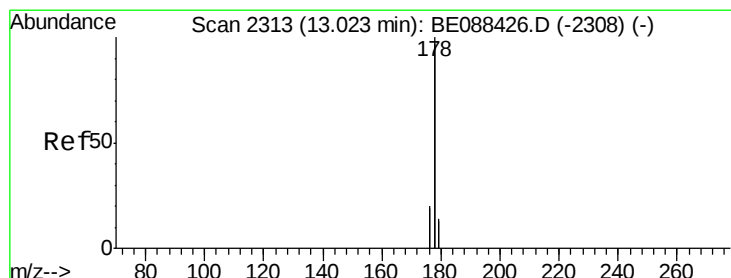
Tgt Ion:178 Resp: 9516

Ion Ratio Lower Upper

178 100

176 18.7 15.0 22.4

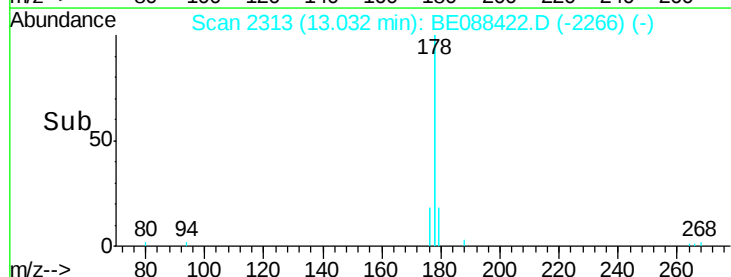
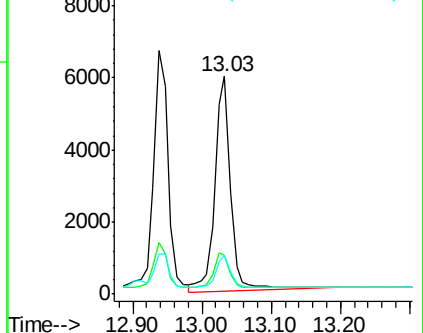
179 16.4 12.5 18.7

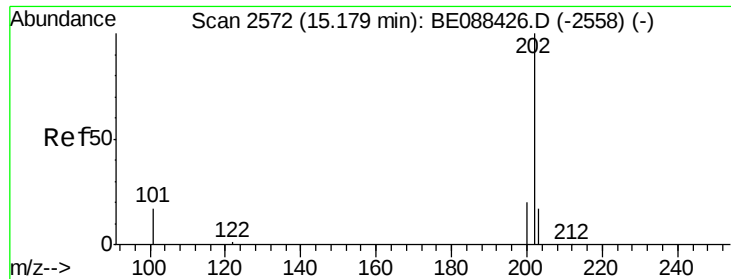


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

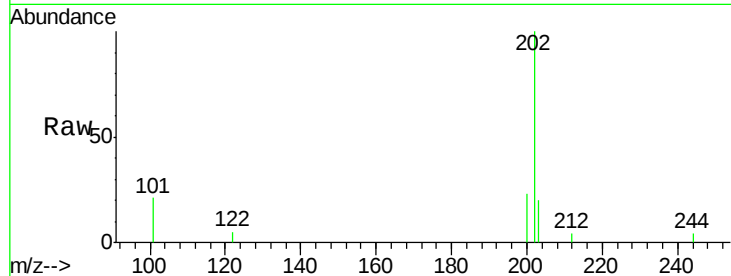




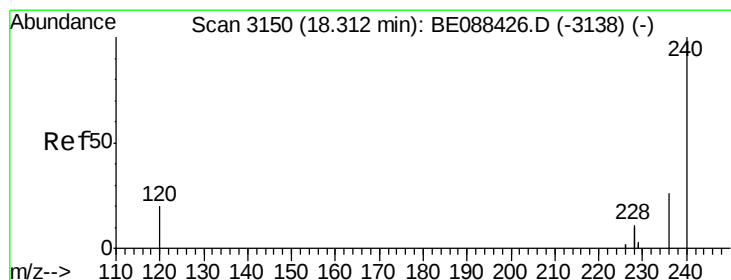
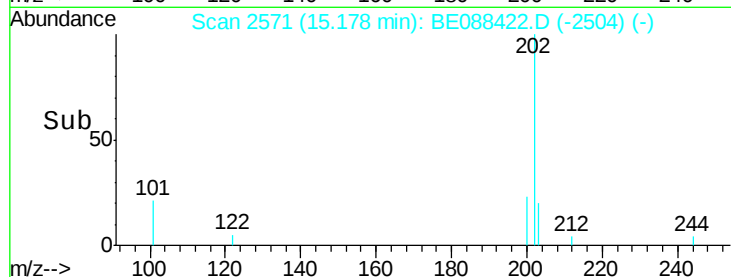
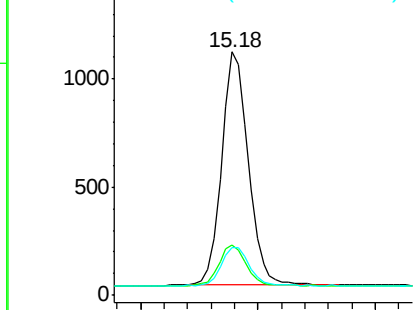
#15
 Fluoranthene
 Concen: 0.09 ng
 RT: 15.18 min Scan# 2571
 Delta R.T. -0.00 min
 Lab File: BE088422.D
 Acq: 31 Oct 2014 14:46

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.1

Tgt Ion: 202 Resp: 1696
 Ion Ratio Lower Upper
 202 100
 101 17.7 14.3 21.5
 203 16.9 13.6 20.4

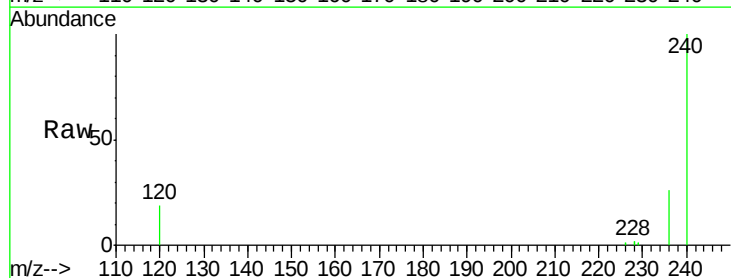


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

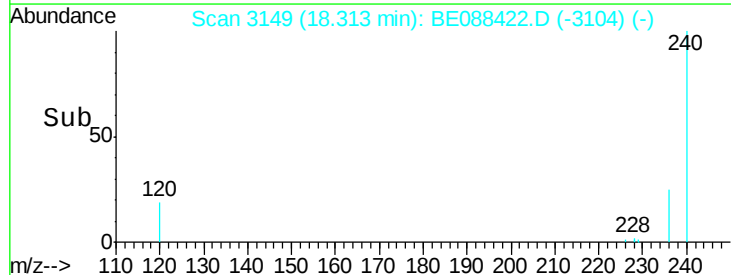
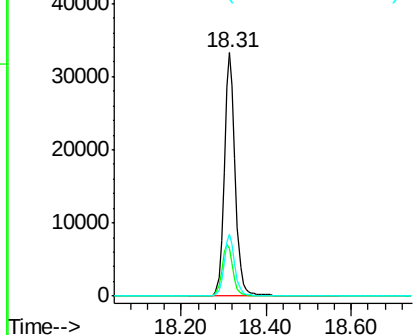


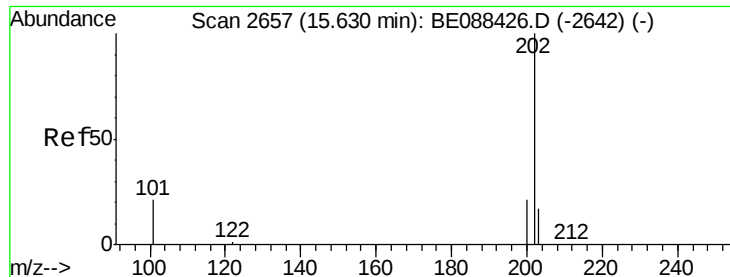
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.31 min Scan# 3149
 Delta R.T. 0.00 min
 Lab File: BE088422.D
 Acq: 31 Oct 2014 14:46

Tgt Ion: 240 Resp: 59649
 Ion Ratio Lower Upper
 240 100
 120 19.5 16.4 24.6
 236 25.5 20.5 30.7



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





#17

Pyrene

Concen: 0.09 ng

RT: 15.63 min Scan# 2657

Delta R.T. 0.00 min

Lab File: BE088422.D

Acq: 31 Oct 2014 14:46

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.1

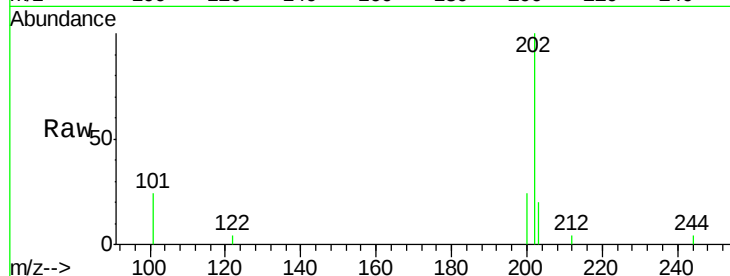
Tgt Ion:202 Resp: 1801

Ion Ratio Lower Upper

202 100

200 20.2 16.1 24.1

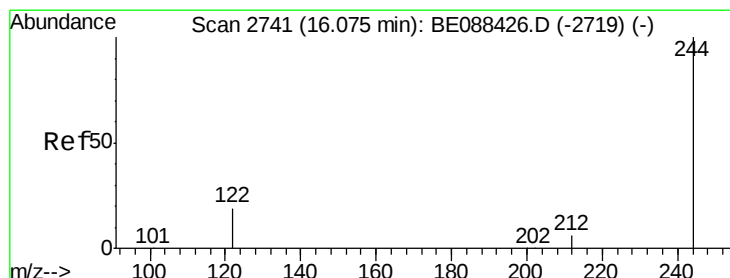
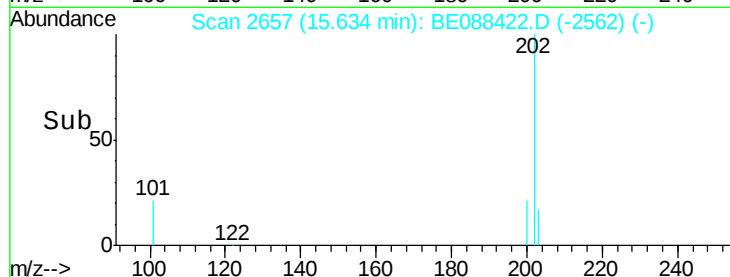
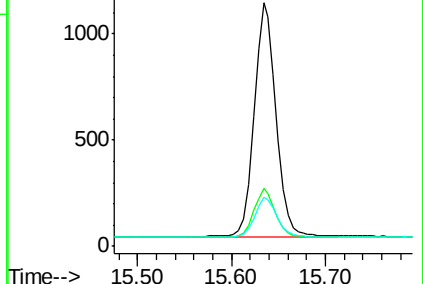
203 17.4 13.8 20.8



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



#18

Terphenyl-d14

Concen: 0.09 ng

RT: 16.08 min Scan# 2741

Delta R.T. 0.00 min

Lab File: BE088422.D

Acq: 31 Oct 2014 14:46

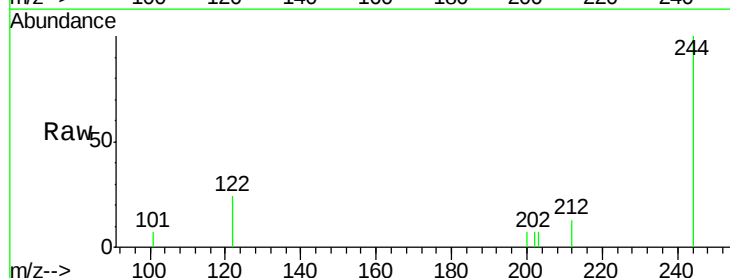
Tgt Ion:244 Resp: 1016

Ion Ratio Lower Upper

244 100

212 12.5 5.5 8.3#

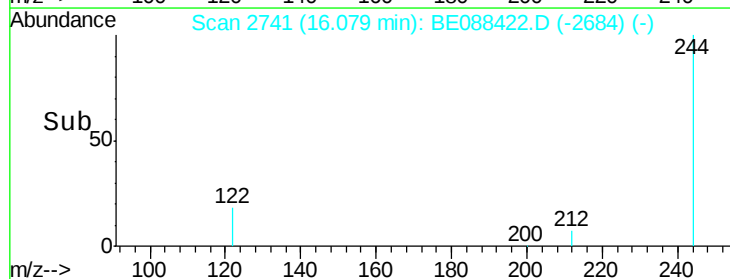
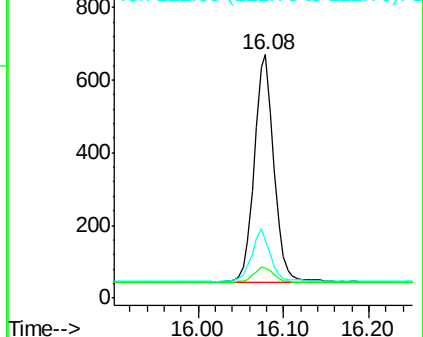
122 24.0 15.6 23.4#



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





#19

Benzo(a)anthracene

Concen: 0.10 ng

RT: 18.29 min Scan# 3146

Delta R.T. 0.00 min

Lab File: BE088422.D

Acq: 31 Oct 2014 14:46

Instrument :

BNA_E

ClientSampleId :

SSTDICC0.1

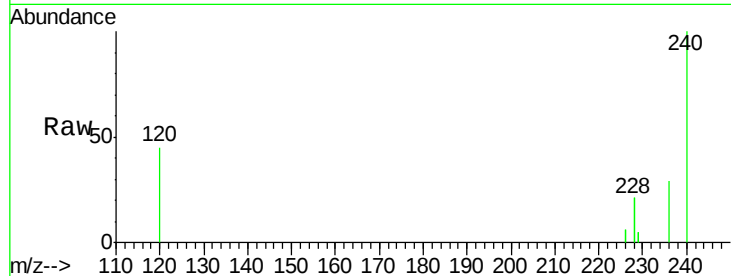
Tgt Ion:228 Resp: 5828

Ion Ratio Lower Upper

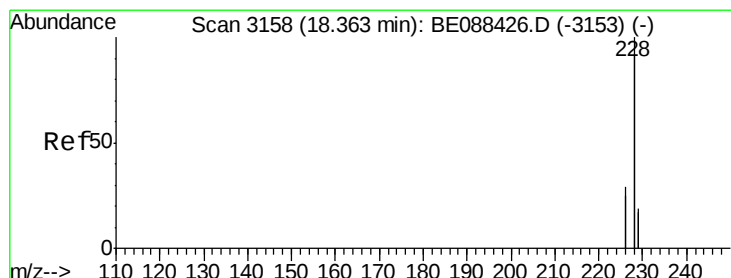
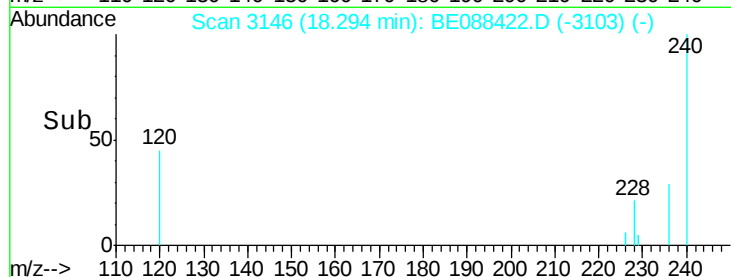
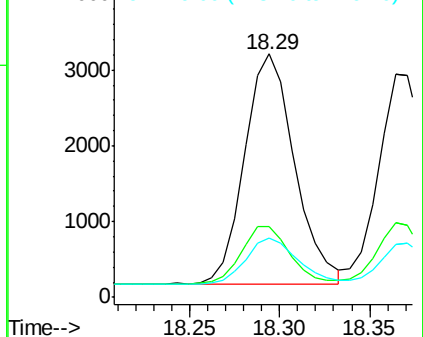
228 100

226 29.0 19.8 29.6

229 24.2 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



#20

Chrysene

Concen: 0.10 ng

RT: 18.36 min Scan# 3157

Delta R.T. 0.00 min

Lab File: BE088422.D

Acq: 31 Oct 2014 14:46

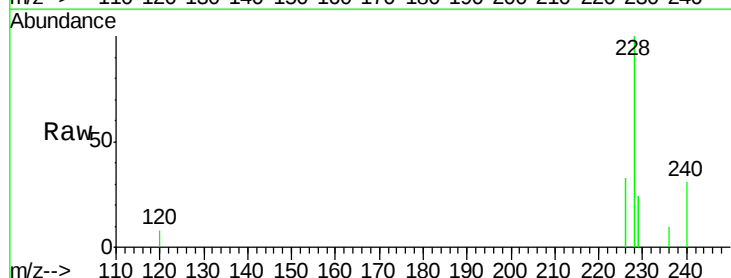
Tgt Ion:228 Resp: 5507

Ion Ratio Lower Upper

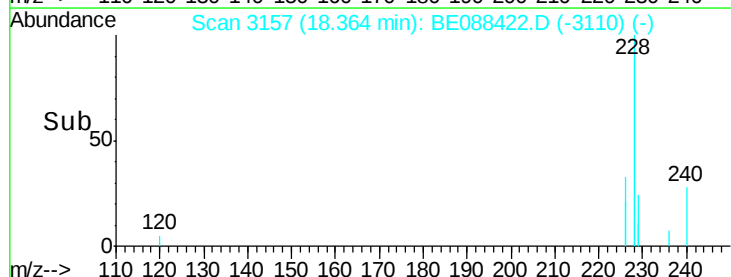
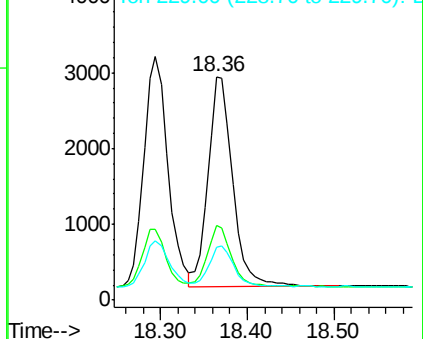
228 100

226 33.2 23.6 35.4

229 23.6 15.4 23.2#



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





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.08 ng

RT: 23.55 min Scan# 4149

Delta R.T. 0.01 min

Lab File: BE088422.D

Acq: 31 Oct 2014 14:46

Instrument :

BNA_E

ClientSampleId :

SSTDICC0.1

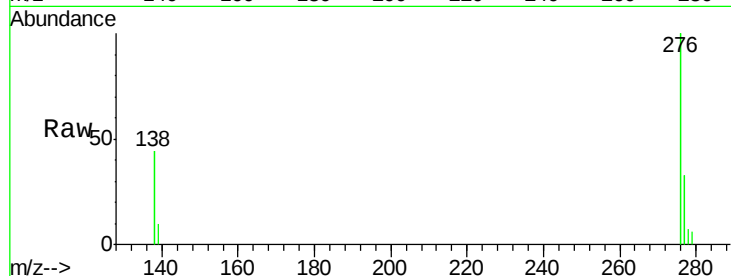
Tgt Ion:276 Resp: 4038

Ion Ratio Lower Upper

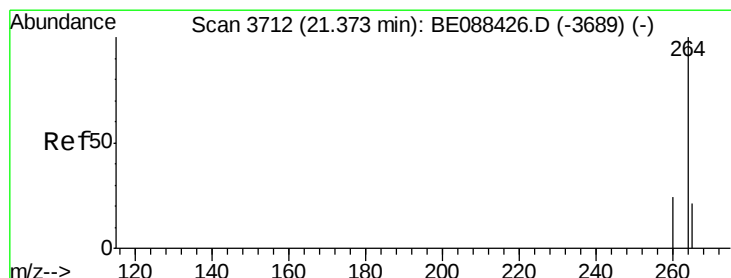
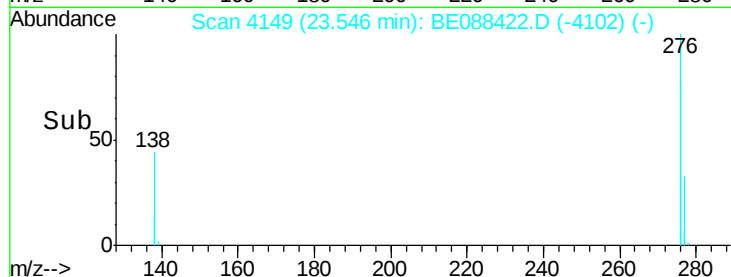
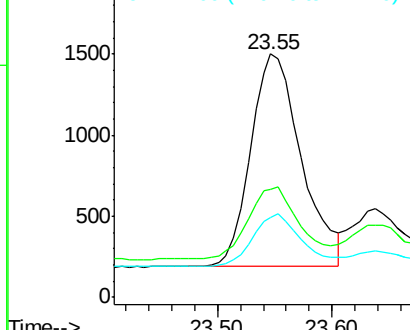
276 100

138 34.4 20.2 30.2#

277 23.0 14.8 22.2#



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: 21.37 min Scan# 3711

Delta R.T. 0.00 min

Lab File: BE088422.D

Acq: 31 Oct 2014 14:46

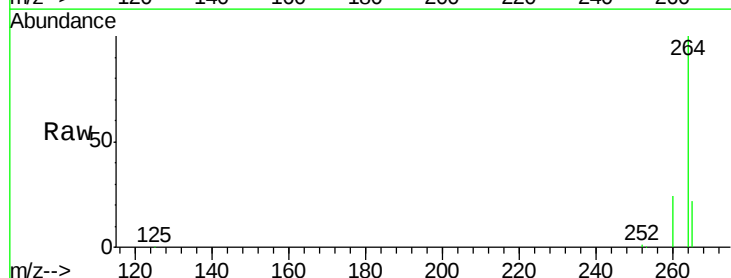
Tgt Ion:264 Resp: 53837

Ion Ratio Lower Upper

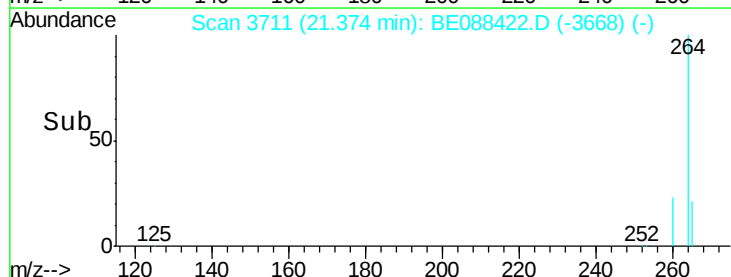
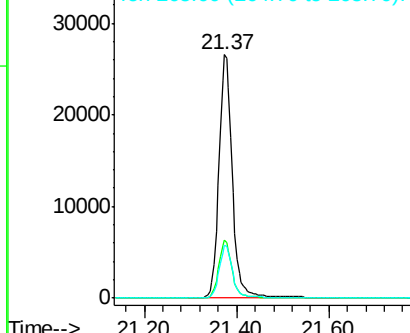
264 100

260 23.6 18.9 28.3

265 21.6 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





#23

Benzo(b)fluoranthene

Concen: 0.09 ng

RT: 20.62 min Scan# 3545

Delta R.T. 0.00 min

Lab File: BE088422.D

Acq: 31 Oct 2014 14:46

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.1

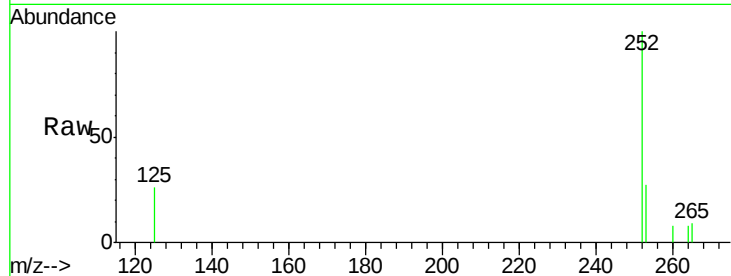
Tgt Ion:252 Resp: 1109

Ion Ratio Lower Upper

252 100

253 27.1 17.8 26.8#

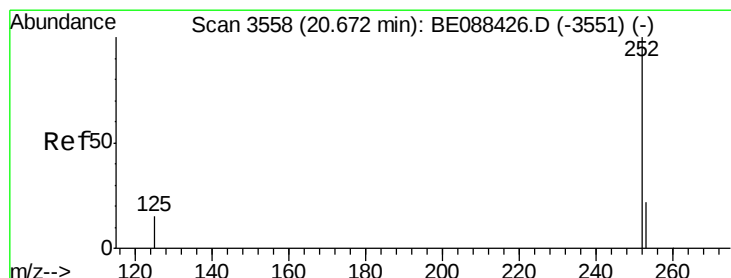
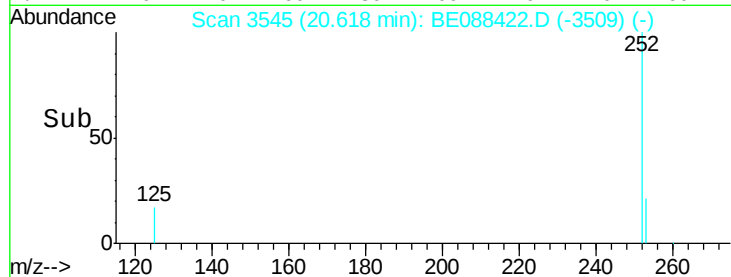
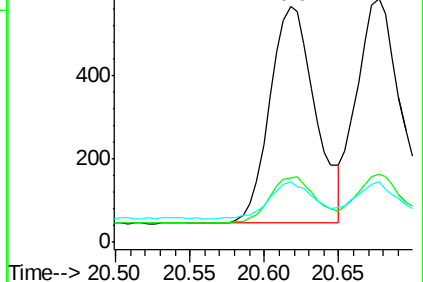
125 25.7 12.3 18.5#



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: 0.09 ng

RT: 20.68 min Scan# 3558

Delta R.T. 0.00 min

Lab File: BE088422.D

Acq: 31 Oct 2014 14:46

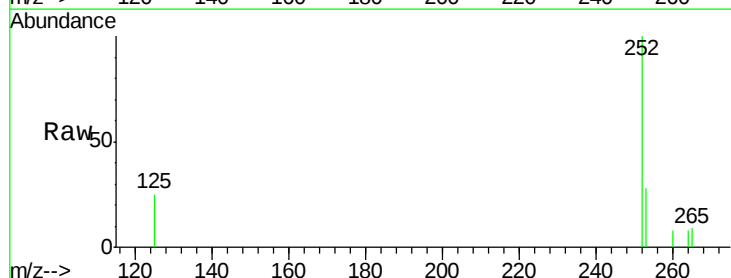
Tgt Ion:252 Resp: 1215

Ion Ratio Lower Upper

252 100

253 27.8 17.8 26.8#

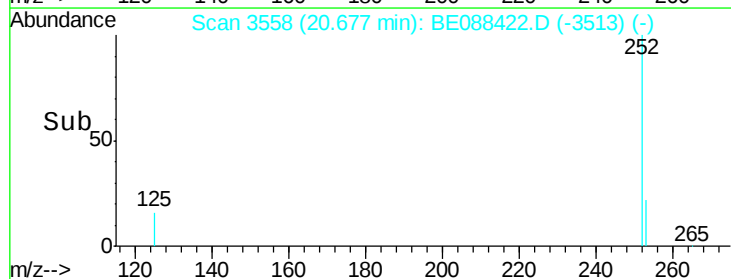
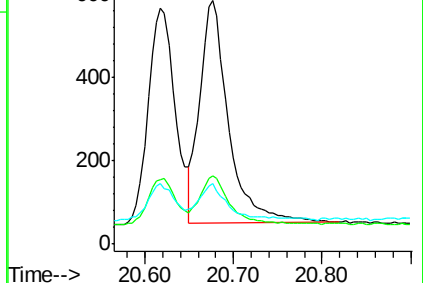
125 24.9 12.2 18.4#



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





#25

Benzo(a)pyrene

Concen: 0.09 ng

RT: 21.26 min Scan# 3685

Delta R.T. 0.00 min

Lab File: BE088422.D

Acq: 31 Oct 2014 14:46

Instrument :

BNA_E

ClientSampleId :

SSTDICC0.1

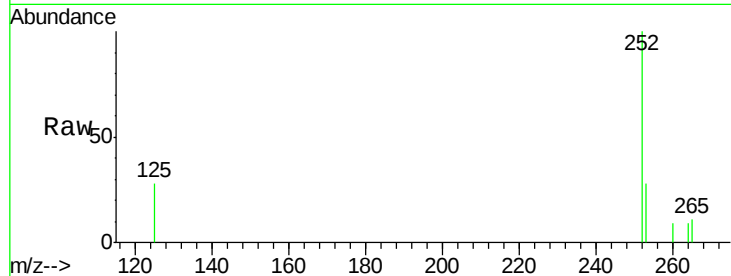
Tgt Ion:252 Resp: 1066

Ion Ratio Lower Upper

252 100

253 27.9 18.2 27.4#

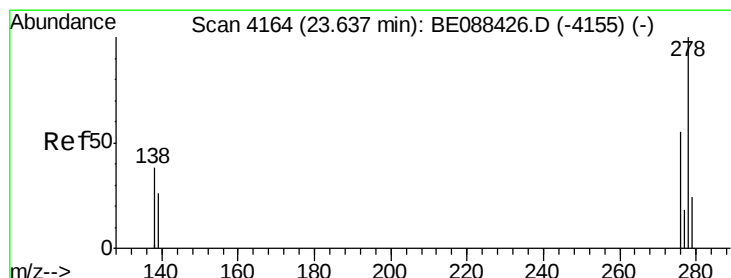
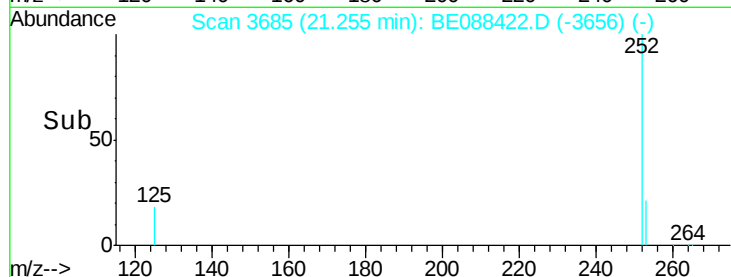
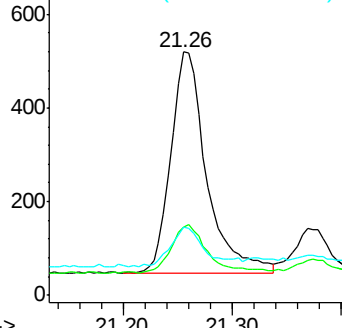
125 28.1 13.7 20.5#



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

Dibenzo(a,h)anthracene

Concen: 0.10 ng

RT: 23.64 min Scan# 4164

Delta R.T. 0.01 min

Lab File: BE088422.D

Acq: 31 Oct 2014 14:46

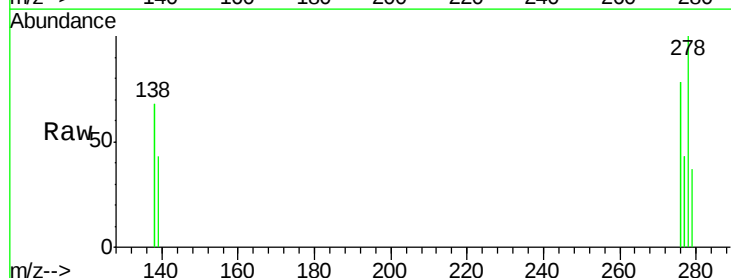
Tgt Ion:278 Resp: 1004

Ion Ratio Lower Upper

278 100

139 43.0 22.1 33.1#

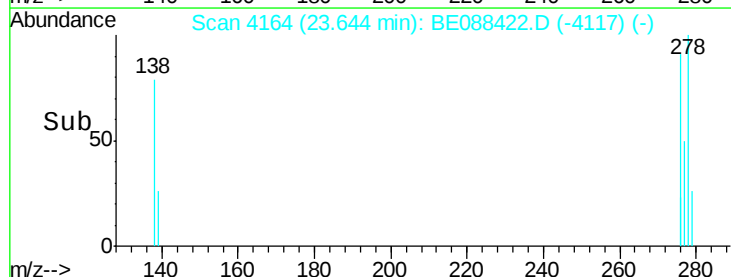
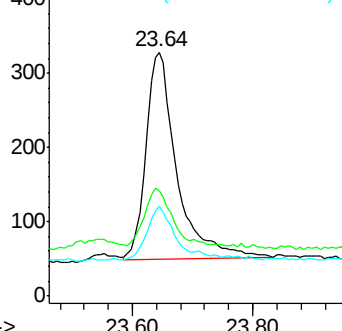
279 36.9 19.7 29.5#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#27

Benzo(g,h,i)perylene

Concen: 0.10 ng

RT: 24.17 min Scan# 4245

Delta R.T. 0.01 min

Lab File: BE088422.D

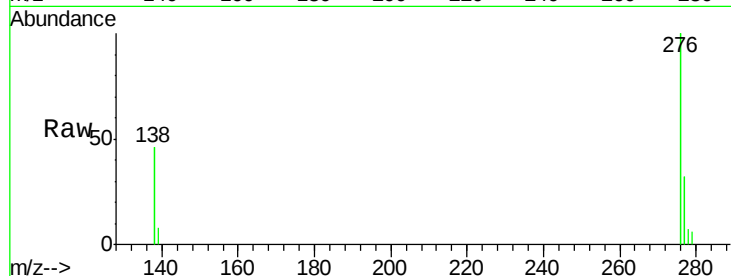
Acq: 31 Oct 2014 14:46

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.1



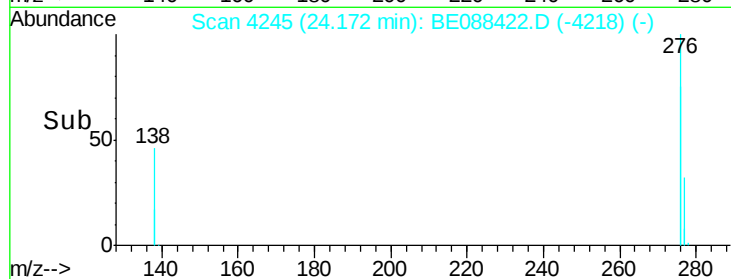
Tgt Ion: 276 Resp: 4952

Ion Ratio Lower Upper

276 100

277 32.0 19.8 29.6#

138 45.8 29.3 43.9#



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

