

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088430.D
 Acq On : 31 Oct 2014 19:15
 Operator : TP/JJ
 Sample : SSTDICV001
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 ICVBE103114

Quant Time: Nov 01 00:46:03 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 00:42:07 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	37636	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	144326	5.00	ng	0.00
7) Acenaphthene-d10	10.79	164	67650	5.00	ng	0.00
12) Phenanthrene-d10	12.90	188	126435	5.00	ng	0.00
16) Chrysene-d12	18.31	240	62640	5.00	ng	0.00
22) Perylene-d12	21.37	264	54317	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.77	82	11031	1.04	ng	0.00
8) 2-Fluorobiphenyl	9.98	172	19836	1.04	ng	0.00
18) Terphenyl-d14	16.07	244	11960	1.04	ng	0.00

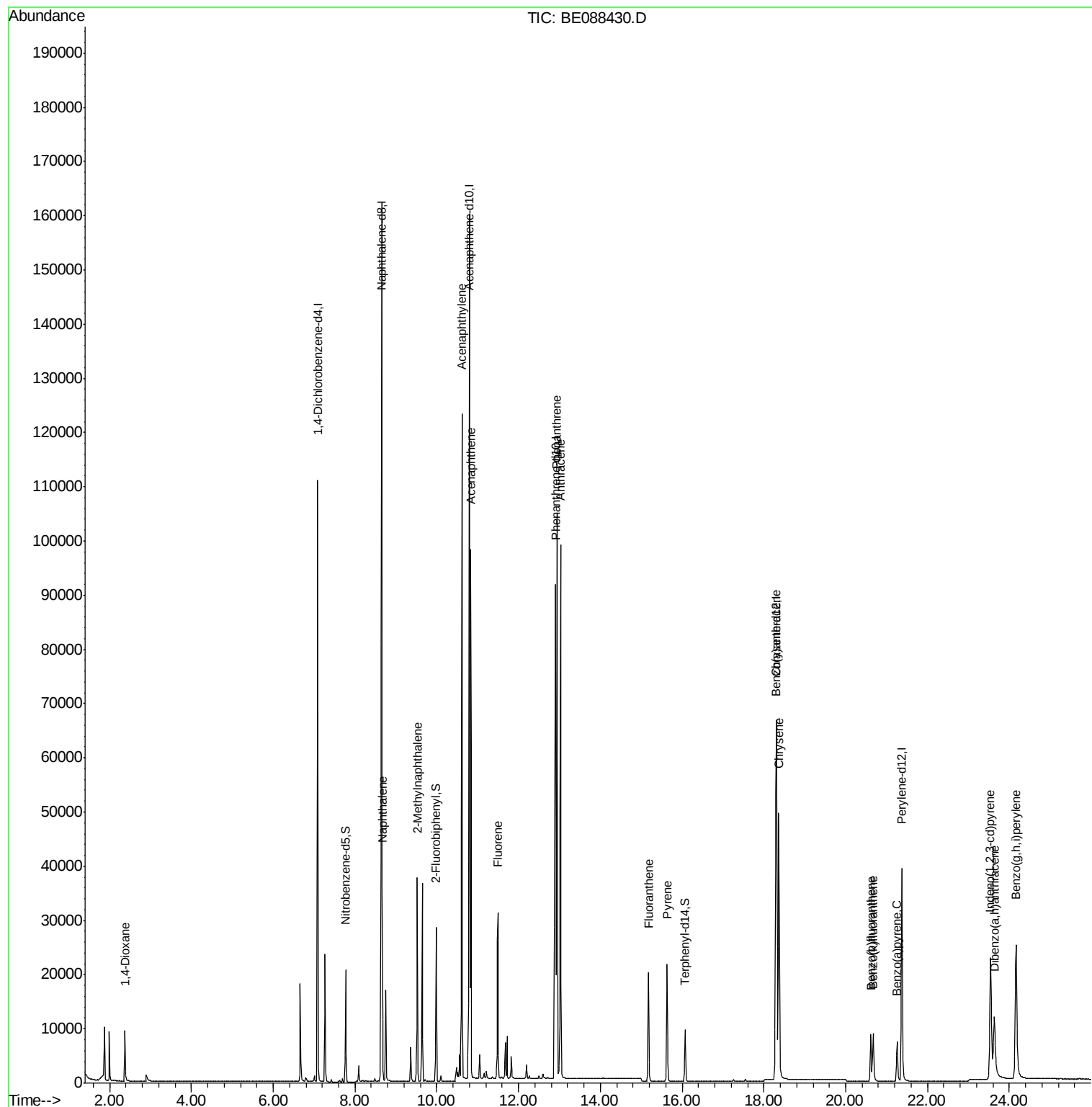
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.37	88	5072	1.03	ng	98
5) Naphthalene	8.67	128	31128	1.04	ng	100
6) 2-Methylnaphthalene	9.53	142	19459	1.05	ng	94
9) Acenaphthylene	10.62	152	113041	1.03	ng	99
10) Acenaphthene	10.83	154	16606	1.02	ng	99
11) Fluorene	11.49	166	18149	1.05	ng	100
13) Phenanthrene	12.94	178	134122	1.17	ng	100
14) Anthracene	13.02	178	98589	1.06	ng	99
15) Fluoranthene	15.18	202	20164	1.08	ng	99
17) Pyrene	15.63	202	21242	1.04	ng	100
19) Benzo(a)anthracene	18.29	228	59486	1.01	ng	98
20) Chrysene	18.36	228	59639	1.03	ng	100
21) Indeno(1,2,3-cd)pyrene	23.54	276	41706	0.77	ng	# 87
23) Benzo(b)fluoranthene	20.61	252	12228	1.03	ng	100
24) Benzo(k)fluoranthene	20.67	252	13821	1.05	ng	99
25) Benzo(a)pyrene	21.26	252	11665	1.02	ng	99
26) Dibenzo(a,h)anthracene	23.64	278	10636	1.00	ng	99
27) Benzo(g,h,i)perylene	24.16	276	49623	1.02	ng	99

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.09 min Scan# 1246

Delta R.T. -0.00 min

Lab File: BE088430.D

Acq: 31 Oct 2014 19:15

Instrument :

BNA_E

ClientSampleId :

ICVBE103114

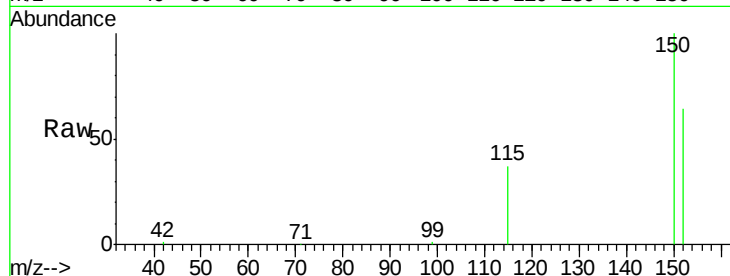
Tgt Ion:152 Resp: 37636

Ion Ratio Lower Upper

152 100

150 155.1 121.8 182.8

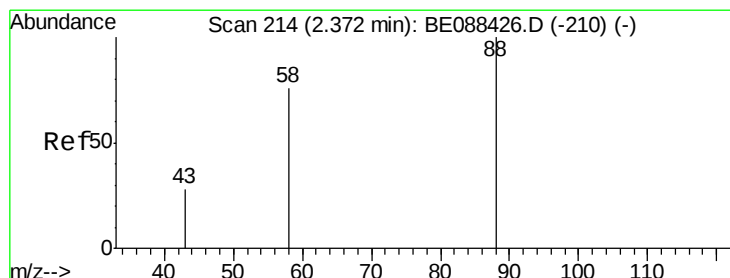
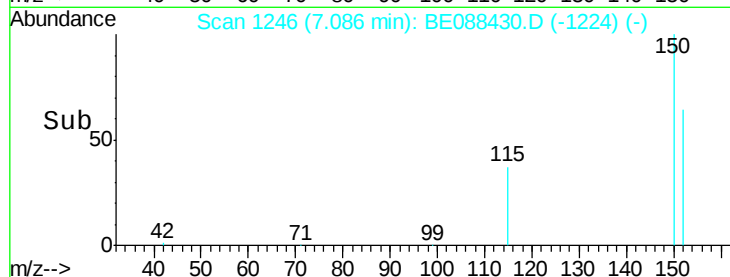
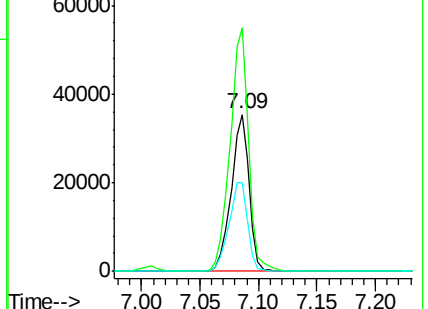
115 56.9 43.9 65.9



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: 1.03 ng

RT: 2.37 min Scan# 214

Delta R.T. -0.00 min

Lab File: BE088430.D

Acq: 31 Oct 2014 19:15

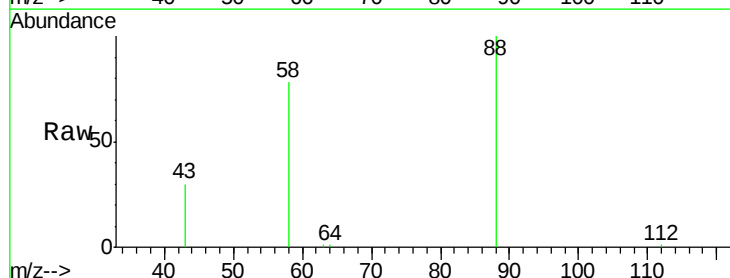
Tgt Ion: 88 Resp: 5072

Ion Ratio Lower Upper

88 100

58 75.2 59.1 88.7

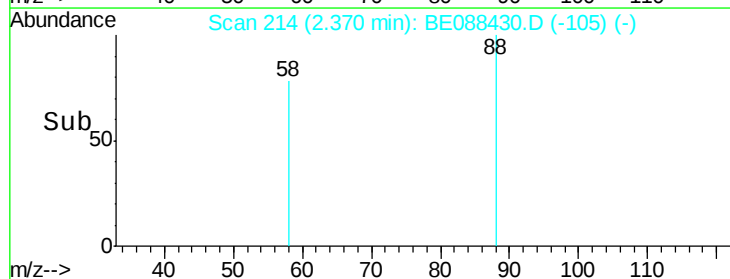
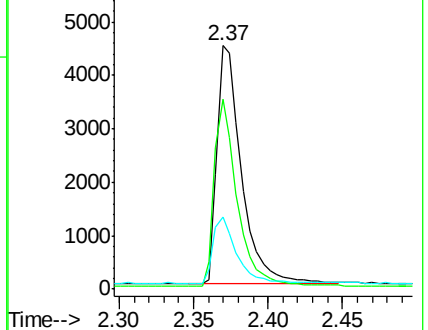
43 26.7 21.9 32.9

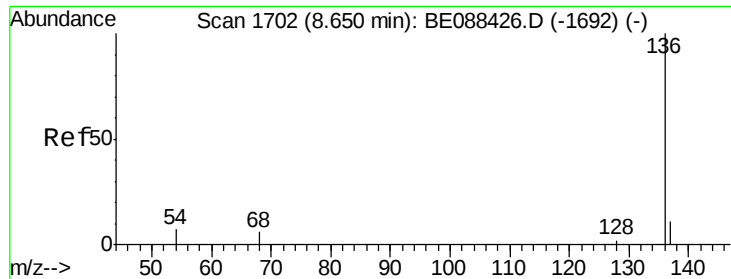


Abundance Ion 88.00 (87.70 to 88.70): BE0

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# 1702

Delta R.T. -0.00 min

Lab File: BE088430.D

Acq: 31 Oct 2014 19:15

Instrument :

BNA_E

ClientSampleId :

ICVBE103114

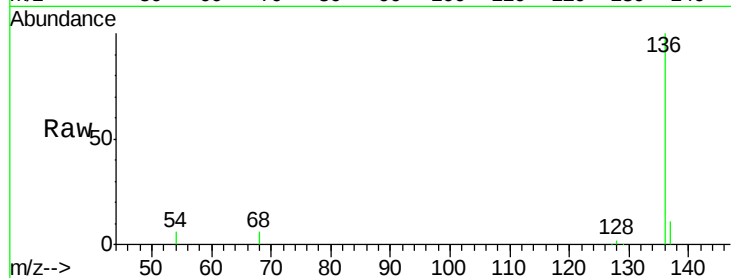
Tgt Ion: 136 Resp: 144326

Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

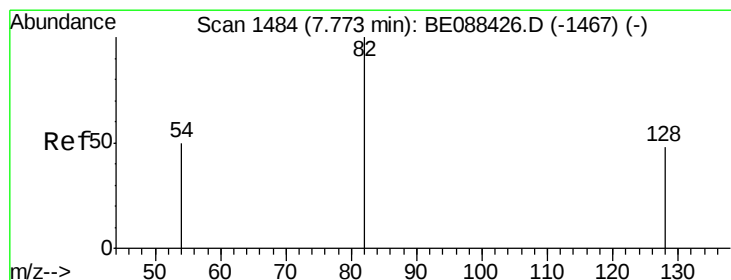
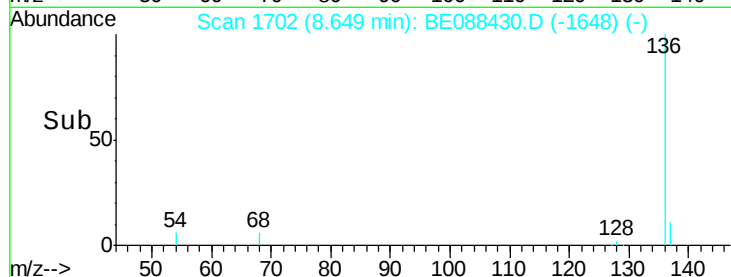
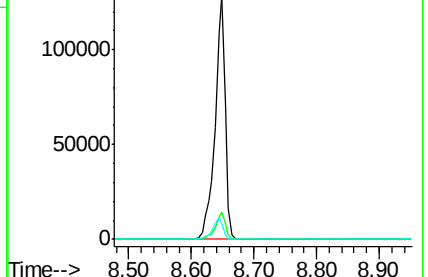
54 6.3 5.3 7.9



Abundance Ion 136.00 (135.70 to 136.70): BE088430.D (-1648) (-)

Ion 137.00 (136.70 to 137.70): BE088430.D (-1648) (-)

Ion 54.00 (53.70 to 54.70): BE088430.D (-1648) (-)



#4

Nitrobenzene-d5

Concen: 1.04 ng

RT: 7.77 min Scan# 1484

Delta R.T. -0.00 min

Lab File: BE088430.D

Acq: 31 Oct 2014 19:15

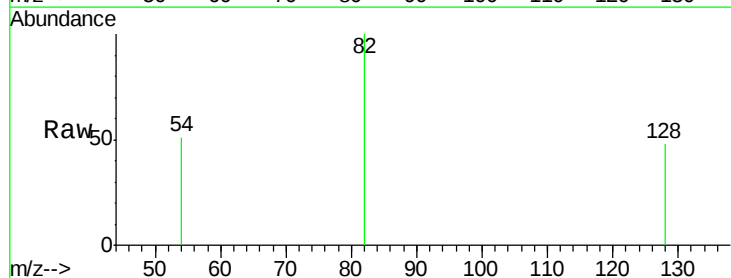
Tgt Ion: 82 Resp: 11031

Ion Ratio Lower Upper

82 100

128 48.2 38.4 57.6

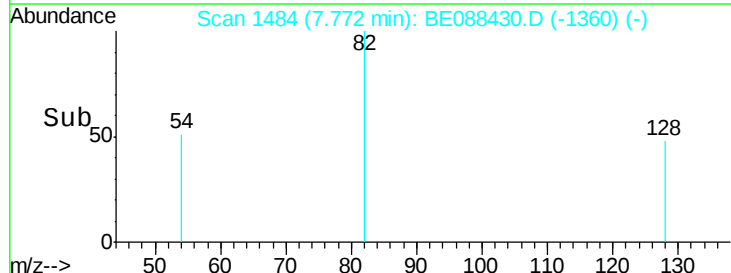
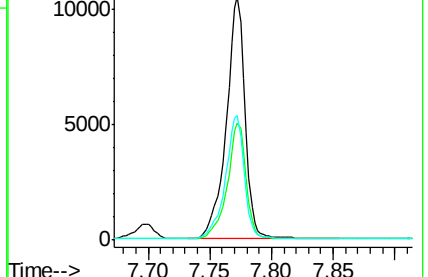
54 51.1 40.2 60.2



Abundance Ion 82.00 (81.70 to 82.70): BE088430.D (-1360) (-)

Ion 128.00 (127.70 to 128.70): BE088430.D (-1360) (-)

Ion 54.00 (53.70 to 54.70): BE088430.D (-1360) (-)





#5

Naphthalene

Concen: 1.04 ng

RT: 8.67 min Scan# 1706

Delta R.T. -0.00 min

Lab File: BE088430.D

Acq: 31 Oct 2014 19:15

Instrument :

BNA_E

ClientSampleId :

ICVBE103114

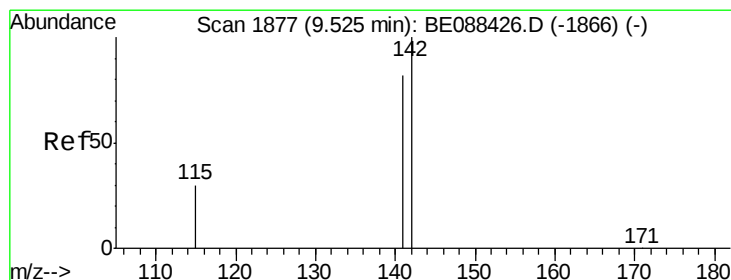
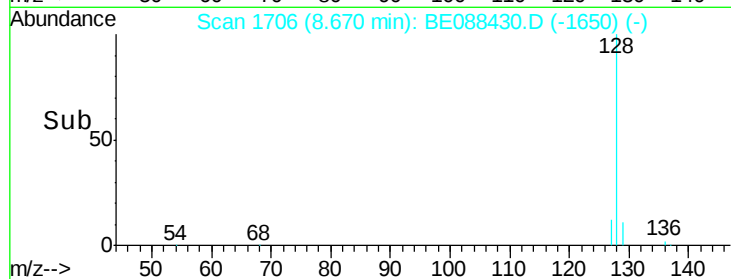
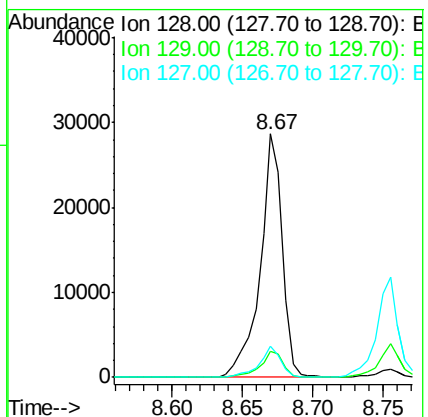
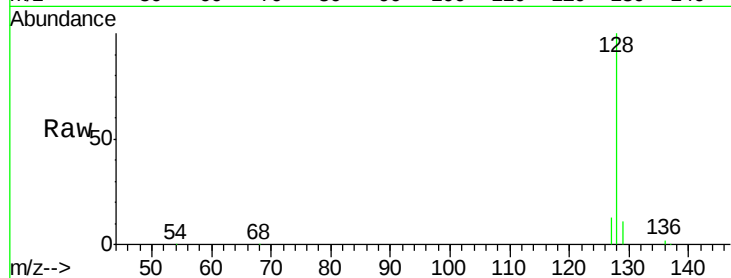
Tgt Ion:128 Resp: 31128

Ion Ratio Lower Upper

128 100

129 10.9 8.6 12.8

127 12.6 10.1 15.1



#6

2-Methylnaphthalene

Concen: 1.05 ng

RT: 9.53 min Scan# 1877

Delta R.T. 0.00 min

Lab File: BE088430.D

Acq: 31 Oct 2014 19:15

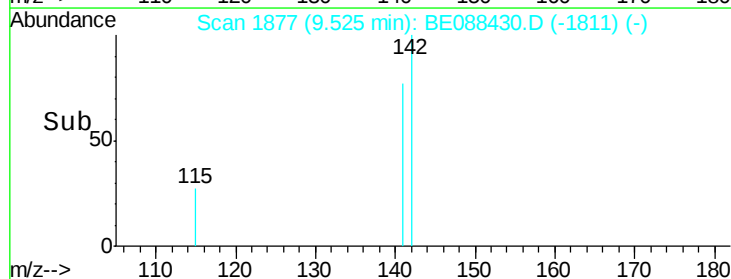
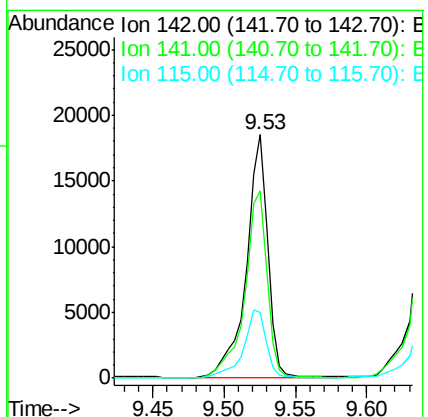
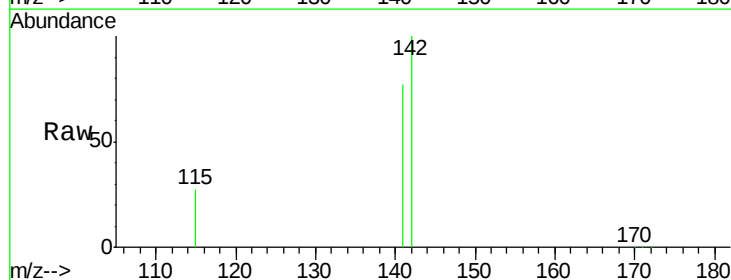
Tgt Ion:142 Resp: 19459

Ion Ratio Lower Upper

142 100

141 77.1 65.8 98.8

115 26.8 24.2 36.4





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.79 min Scan# 2109

Delta R.T. 0.00 min

Lab File: BE088430.D

Acq: 31 Oct 2014 19:15

Instrument :

BNA_E

ClientSampleId :

ICVBE103114

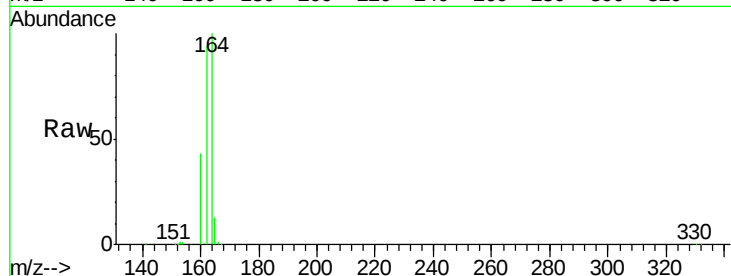
Tgt Ion:164 Resp: 67650

Ion Ratio Lower Upper

164 100

162 93.9 77.0 115.4

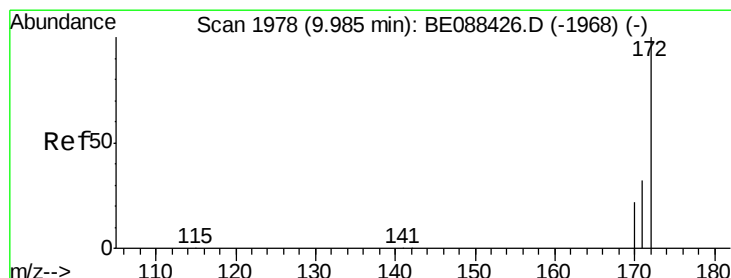
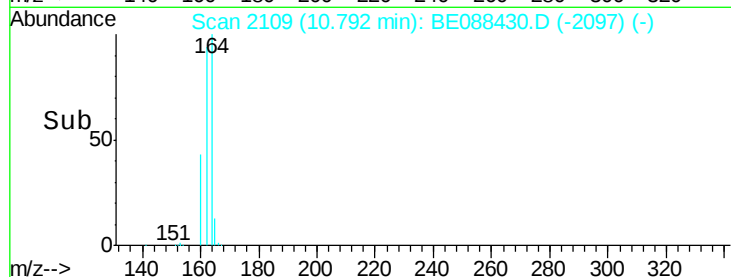
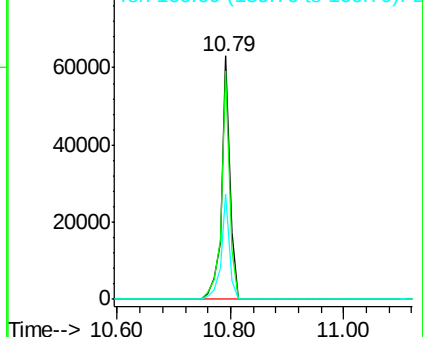
160 43.4 36.8 55.2



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: 1.04 ng

RT: 9.98 min Scan# 1978

Delta R.T. 0.00 min

Lab File: BE088430.D

Acq: 31 Oct 2014 19:15

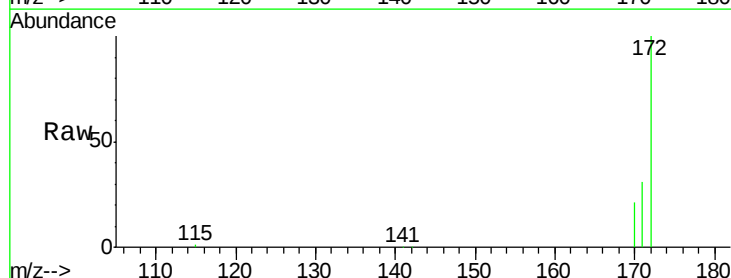
Tgt Ion:172 Resp: 19836

Ion Ratio Lower Upper

172 100

171 31.4 26.0 39.0

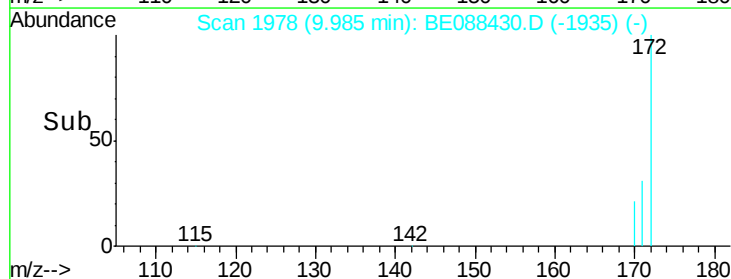
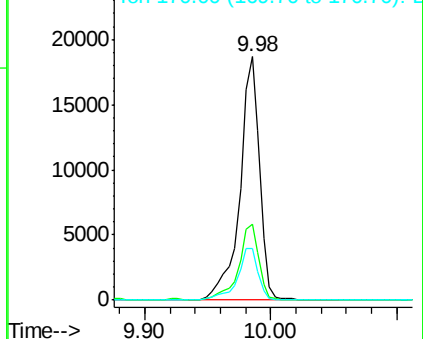
170 21.2 17.6 26.4



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: 1.03 ng

RT: 10.62 min Scan# 2093

Delta R.T. 0.00 min

Lab File: BE088430.D

Acq: 31 Oct 2014 19:15

Instrument :

BNA_E

ClientSampleId :

ICVBE103114

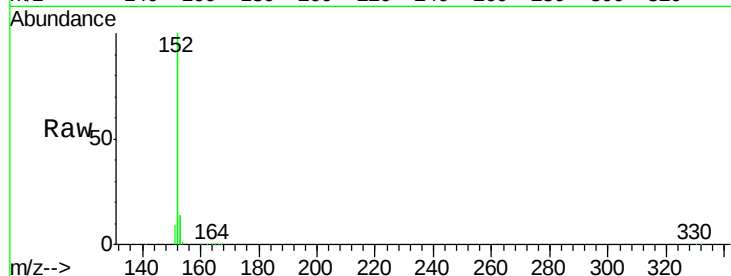
Tgt Ion:152 Resp: 113041

Ion Ratio Lower Upper

152 100

151 4.6 4.4 6.6

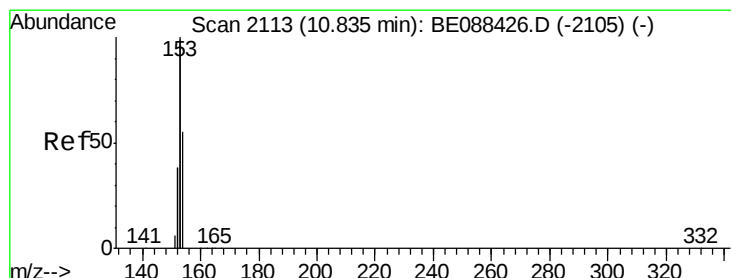
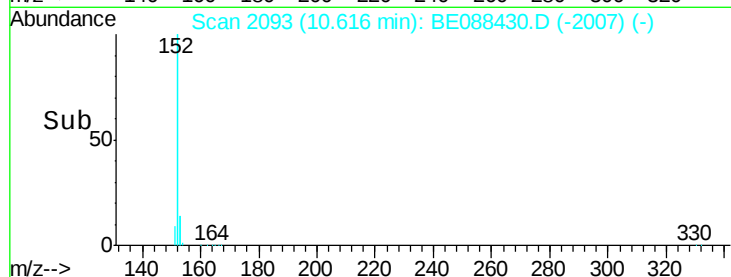
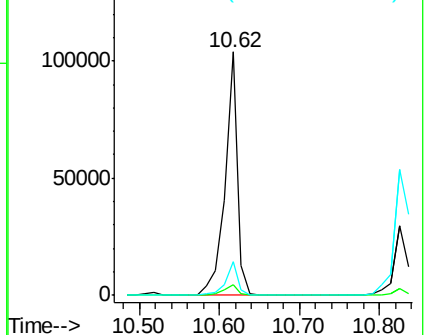
153 13.0 10.5 15.7



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: 1.02 ng

RT: 10.83 min Scan# 2112

Delta R.T. -0.01 min

Lab File: BE088430.D

Acq: 31 Oct 2014 19:15

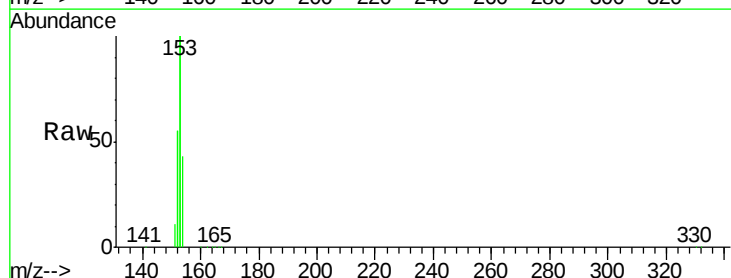
Tgt Ion:154 Resp: 16606

Ion Ratio Lower Upper

154 100

153 406.5 324.3 486.5

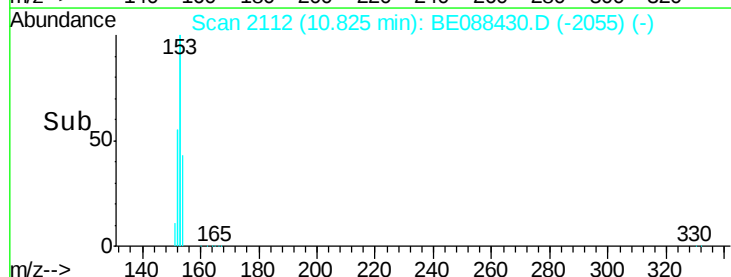
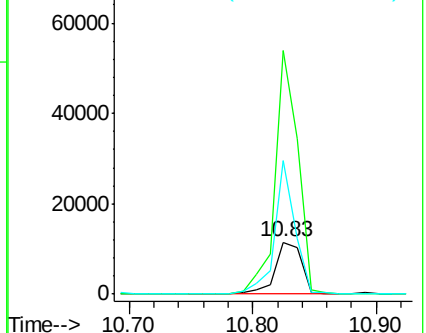
152 195.5 154.9 232.3

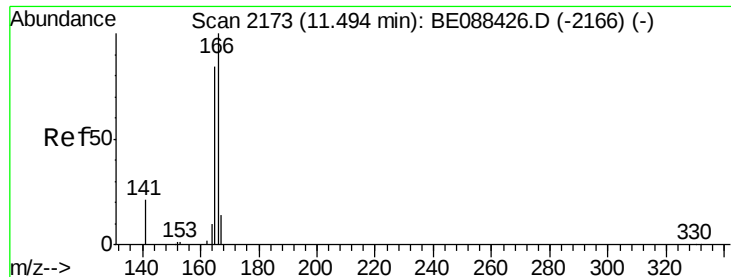


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 1.05 ng

RT: 11.49 min Scan# 2173

Delta R.T. 0.00 min

Lab File: BE088430.D

Acq: 31 Oct 2014 19:15

Instrument :

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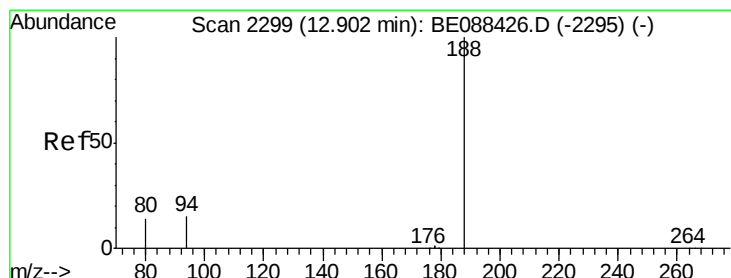
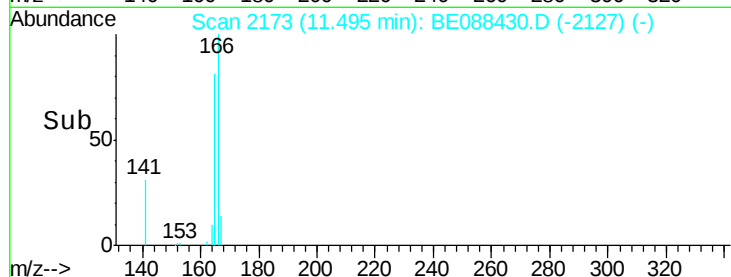
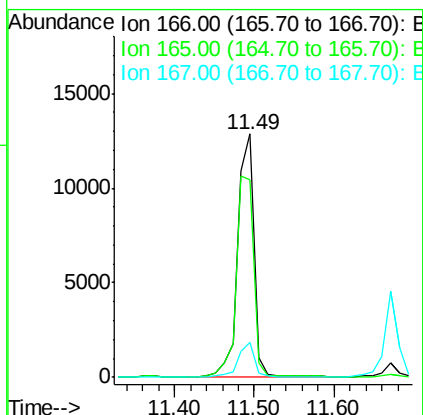
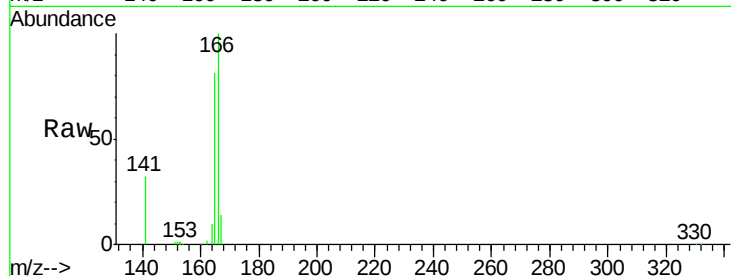
Tgt Ion:166 Resp: 18149

Ion Ratio Lower Upper

166 100

165 89.1 71.3 106.9

167 13.4 10.7 16.1



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.90 min Scan# 2299

Delta R.T. 0.00 min

Lab File: BE088430.D

Acq: 31 Oct 2014 19:15

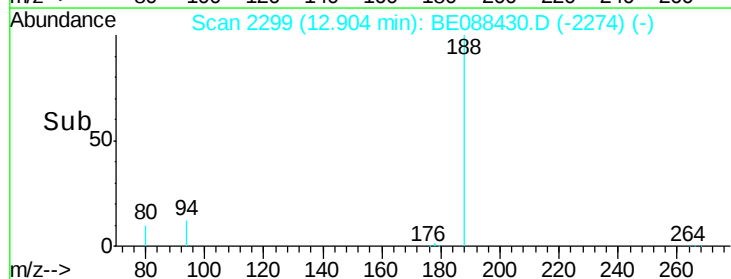
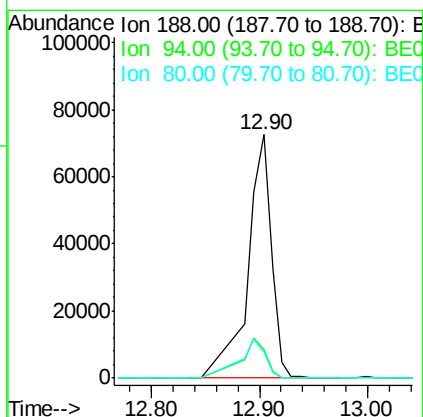
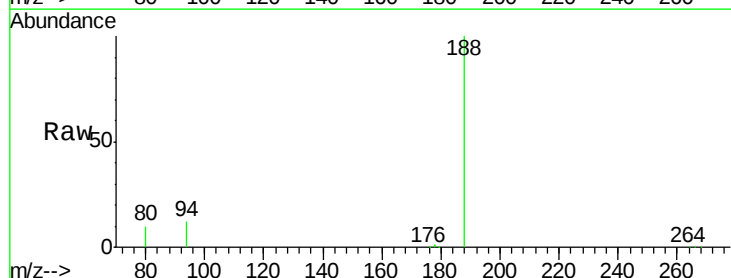
Tgt Ion:188 Resp: 126435

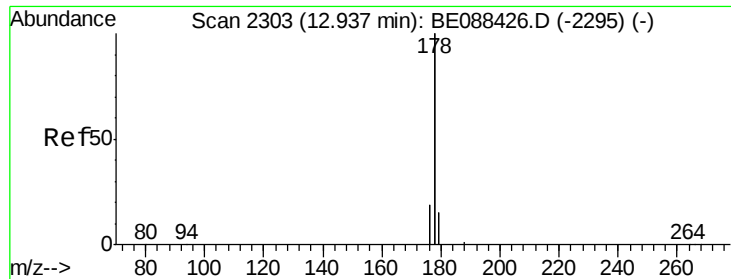
Ion Ratio Lower Upper

188 100

94 11.9 11.8 17.8

80 10.5 10.9 16.3#





#13

Phenanthrene

Concen: 1.17 ng

RT: 12.94 min Scan# 2303

Delta R.T. 0.00 min

Lab File: BE088430.D

Acq: 31 Oct 2014 19:15

Instrument :

BNA_E

ClientSampleId :

ICVBE103114

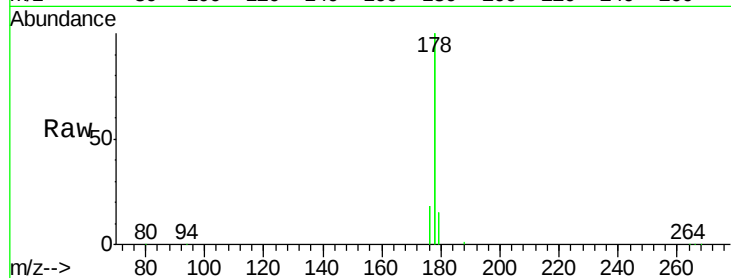
Tgt Ion:178 Resp: 134122

Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.2

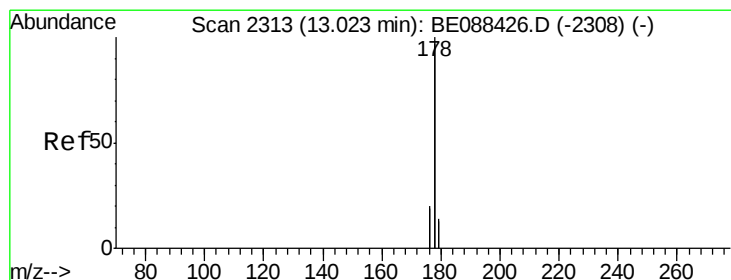
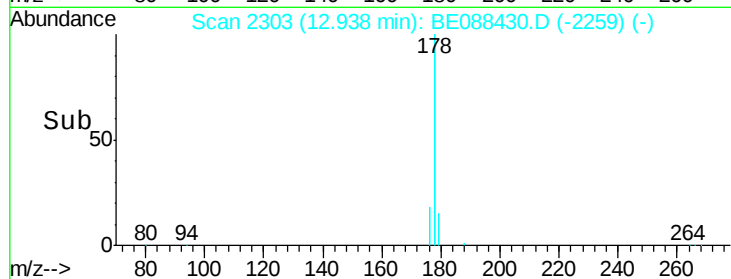
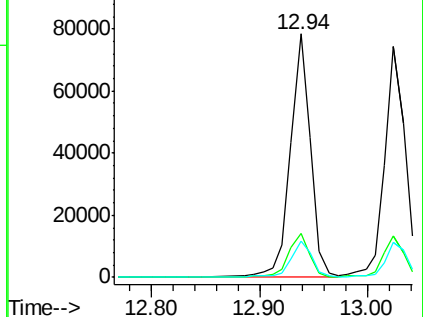
179 16.1 12.8 19.2



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: 1.06 ng

RT: 13.02 min Scan# 2313

Delta R.T. 0.00 min

Lab File: BE088430.D

Acq: 31 Oct 2014 19:15

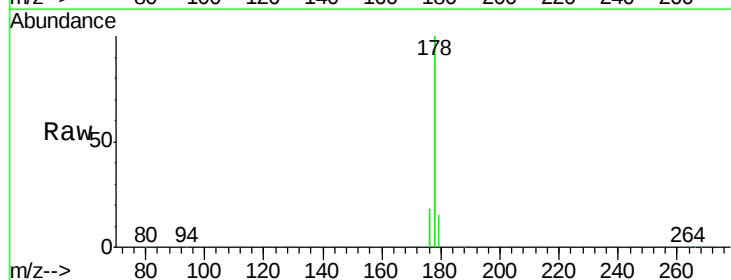
Tgt Ion:178 Resp: 98589

Ion Ratio Lower Upper

178 100

176 18.2 15.0 22.4

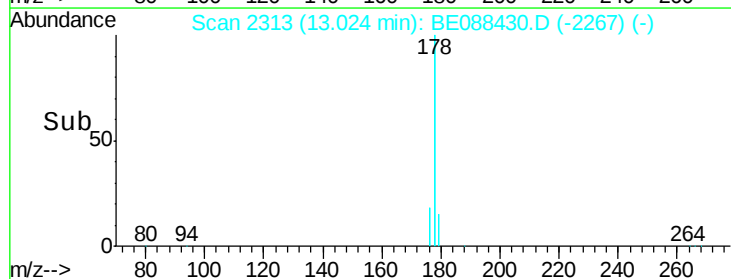
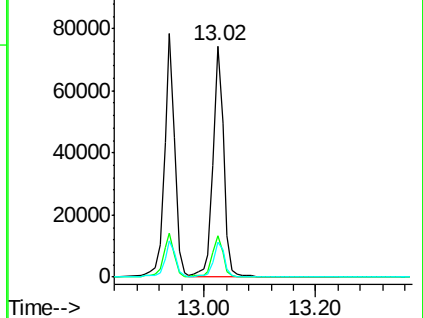
179 15.6 12.5 18.7

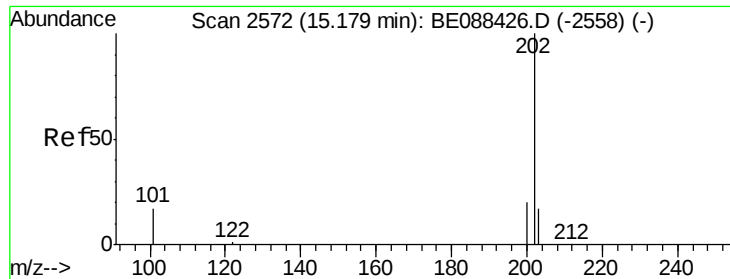


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

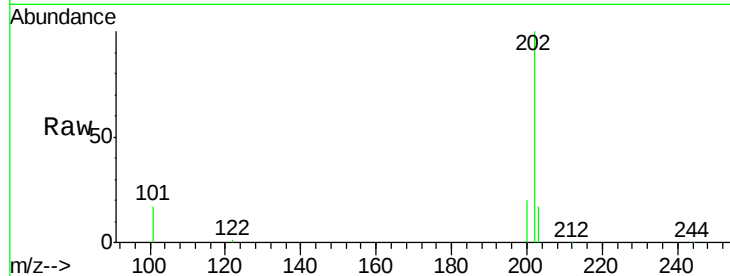




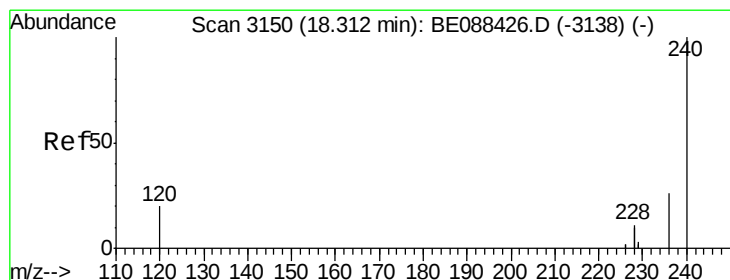
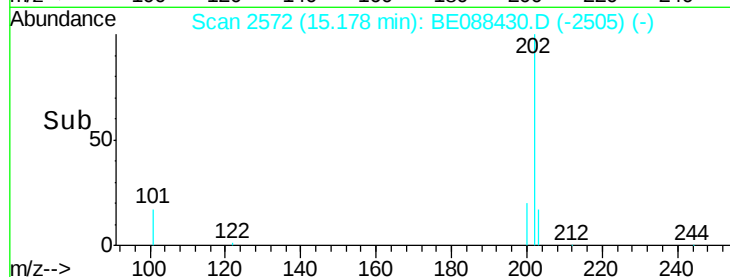
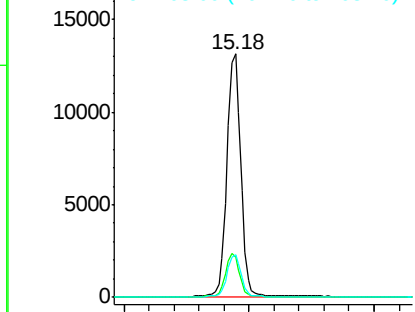
#15
 Fluoranthene
 Concen: 1.08 ng
 RT: 15.18 min Scan# 2572
 Delta R.T. -0.00 min
 Lab File: BE088430.D
 Acq: 31 Oct 2014 19:15

Instrument :
 BNA_E
 ClientSampleId :
 ICVBE103114

Tgt Ion: 202 Resp: 20164
 Ion Ratio Lower Upper
 202 100
 101 17.5 14.3 21.5
 203 16.9 13.6 20.4

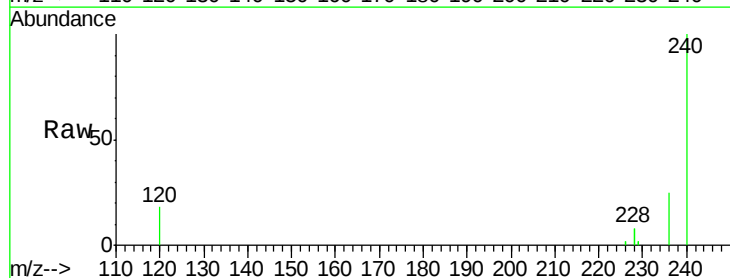


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

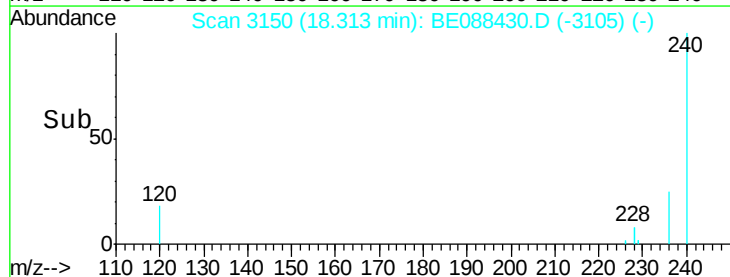
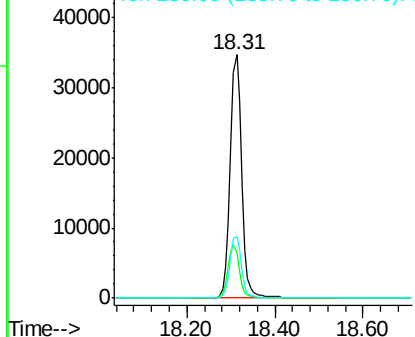


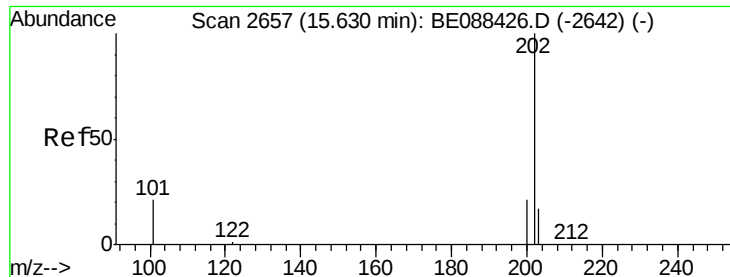
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.31 min Scan# 3150
 Delta R.T. 0.00 min
 Lab File: BE088430.D
 Acq: 31 Oct 2014 19:15

Tgt Ion: 240 Resp: 62640
 Ion Ratio Lower Upper
 240 100
 120 18.4 16.4 24.6
 236 25.2 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: 1.04 ng

RT: 15.63 min Scan# 2657

Delta R.T. -0.00 min

Lab File: BE088430.D

Acq: 31 Oct 2014 19:15

Instrument :

BNA_E

ClientSampleId :

ICVBE103114

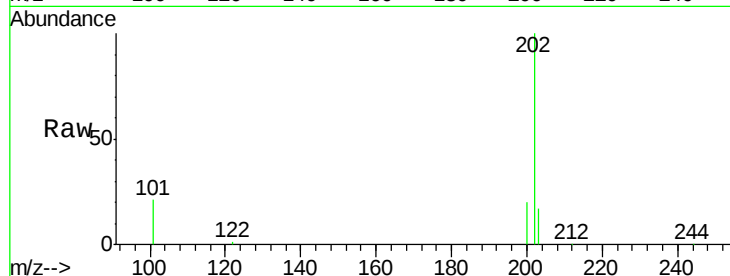
Tgt Ion:202 Resp: 21242

Ion Ratio Lower Upper

202 100

200 20.0 16.1 24.1

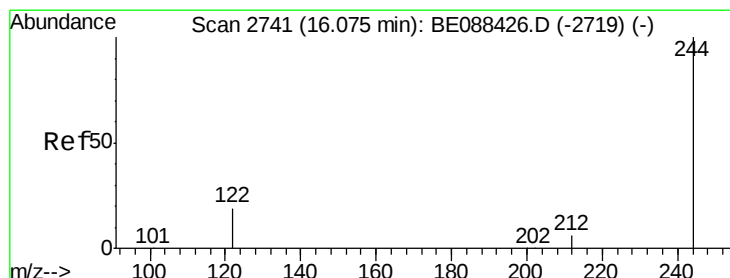
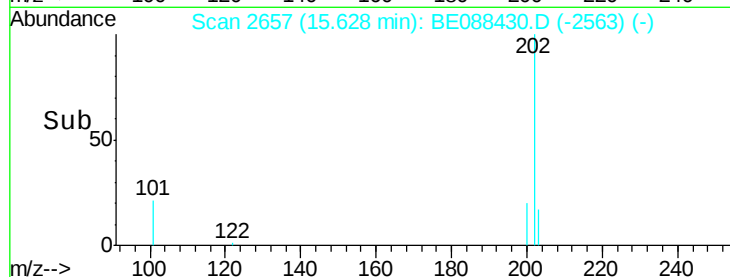
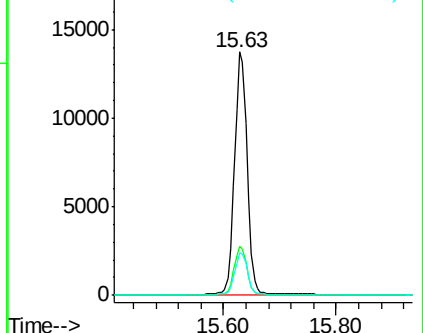
203 17.4 13.8 20.8



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: 1.04 ng

RT: 16.07 min Scan# 2741

Delta R.T. -0.00 min

Lab File: BE088430.D

Acq: 31 Oct 2014 19:15

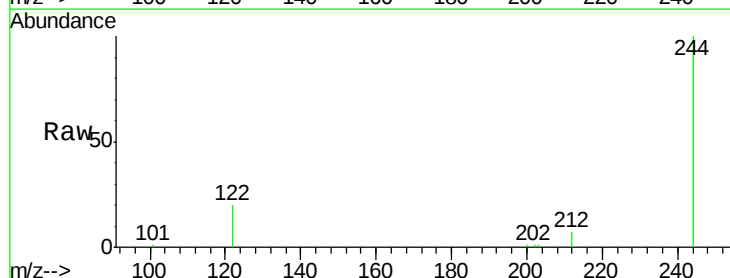
Tgt Ion:244 Resp: 11960

Ion Ratio Lower Upper

244 100

212 7.0 5.5 8.3

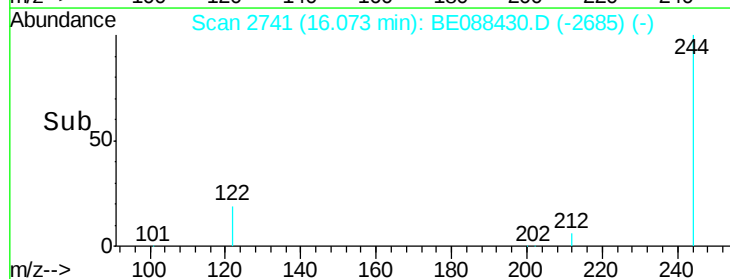
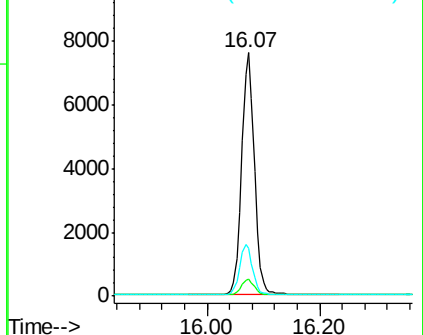
122 19.5 15.6 23.4



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: 1.01 ng

RT: 18.29 min Scan# 3146

Delta R.T. -0.01 min

Lab File: BE088430.D

Acq: 31 Oct 2014 19:15

Instrument :

BNA_E

ClientSampleId :

ICVBE103114

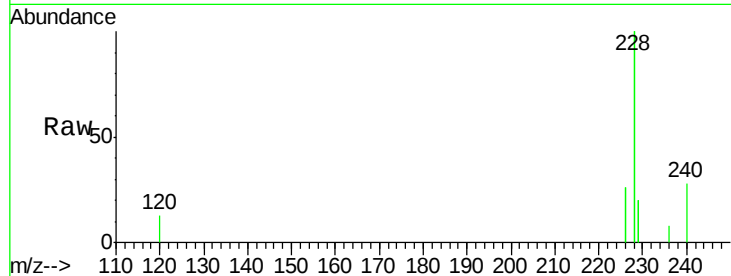
Tgt Ion:228 Resp: 59486

Ion Ratio Lower Upper

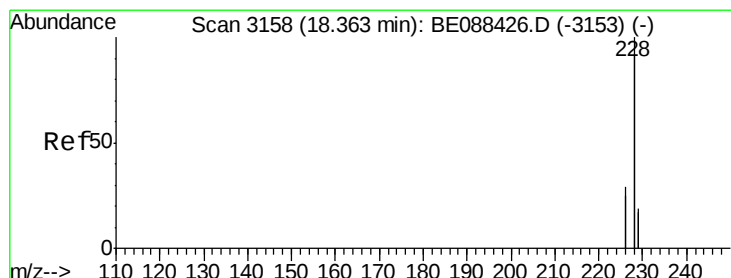
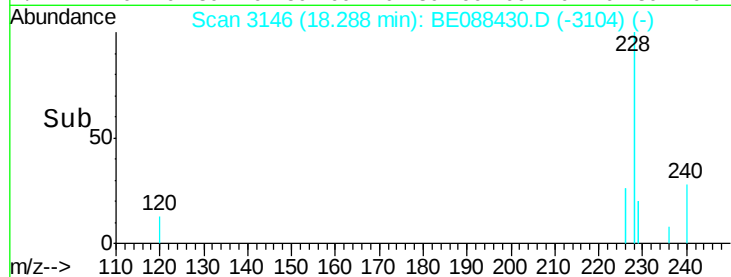
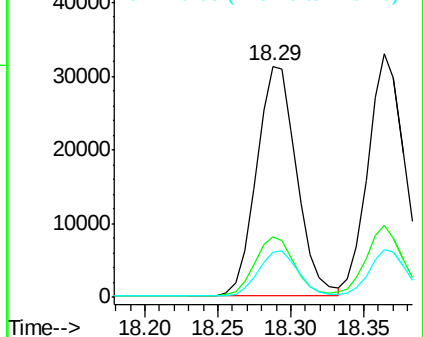
228 100

226 26.0 19.8 29.6

229 19.6 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: 1.03 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088430.D

Acq: 31 Oct 2014 19:15

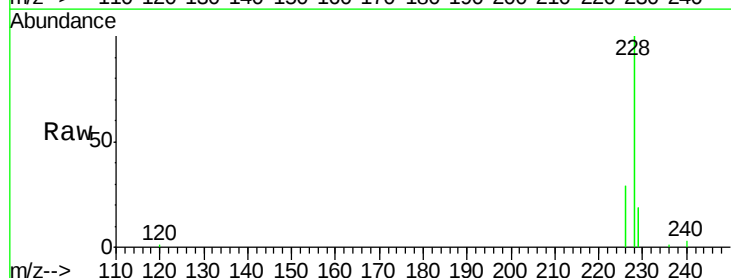
Tgt Ion:228 Resp: 59639

Ion Ratio Lower Upper

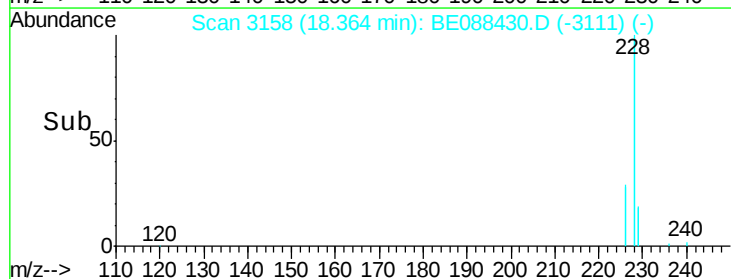
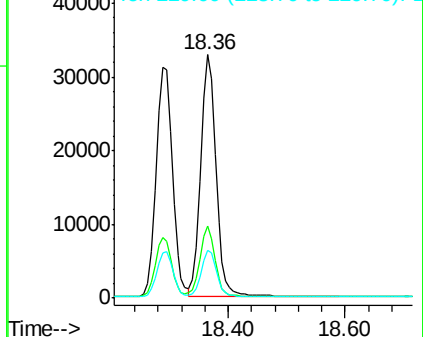
228 100

226 29.4 23.6 35.4

229 19.4 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: 0.77 ng

RT: 23.54 min Scan# 4149

Delta R.T. -0.00 min

Lab File: BE088430.D

Acq: 31 Oct 2014 19:15

Instrument :

BNA_E

ClientSampleId :

ICVBE103114

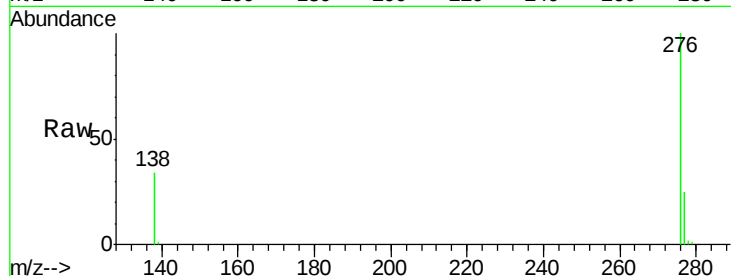
Tgt Ion:276 Resp: 41706

Ion Ratio Lower Upper

276 100

138 32.2 20.2 30.2#

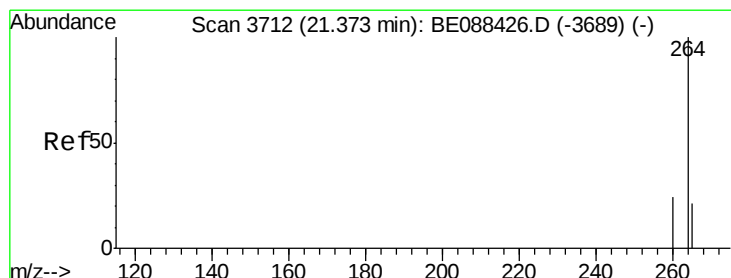
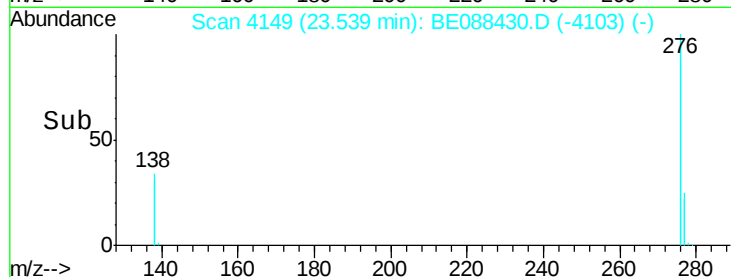
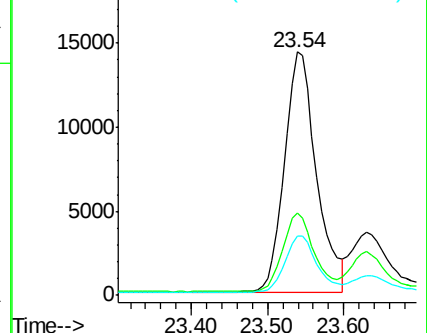
277 23.7 14.8 22.2#



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: BE088430.D

Acq: 31 Oct 2014 19:15

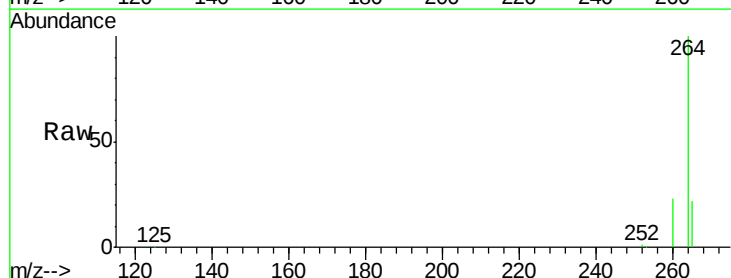
Tgt Ion:264 Resp: 54317

Ion Ratio Lower Upper

264 100

260 23.5 18.9 28.3

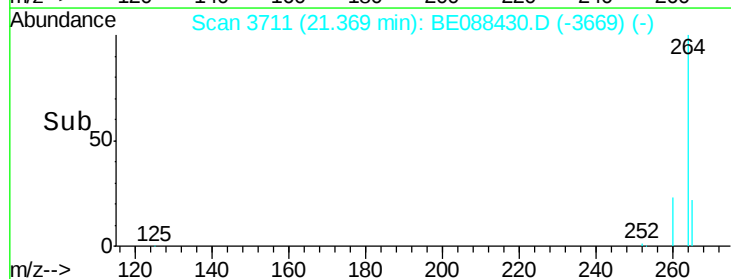
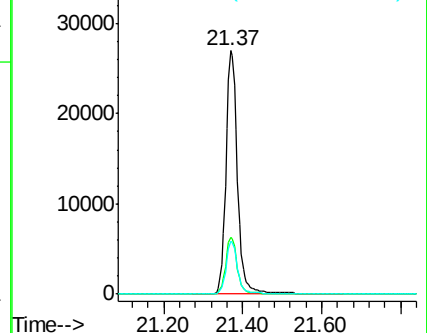
265 21.8 17.2 25.8



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: 1.03 ng

RT: 20.61 min Scan# 3545

Delta R.T. 0.00 min

Lab File: BE088430.D

Acq: 31 Oct 2014 19:15

Instrument :

BNA_E

ClientSampleId :

ICVBE103114

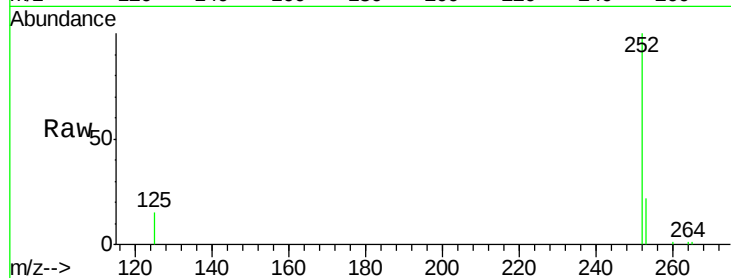
Tgt Ion:252 Resp: 12228

Ion Ratio Lower Upper

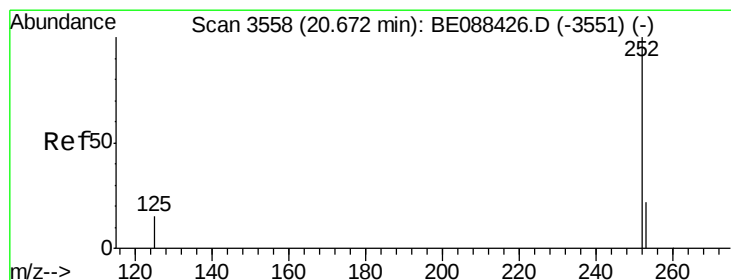
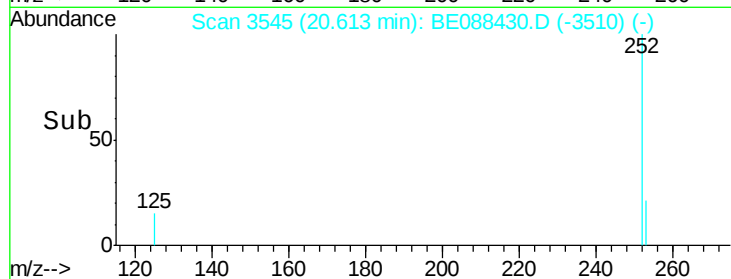
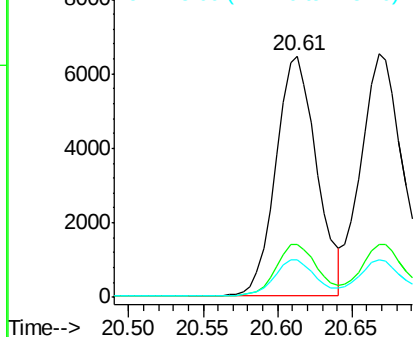
252 100

253 22.1 17.8 26.8

125 15.5 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: 1.05 ng

RT: 20.67 min Scan# 3557

Delta R.T. -0.00 min

Lab File: BE088430.D

Acq: 31 Oct 2014 19:15

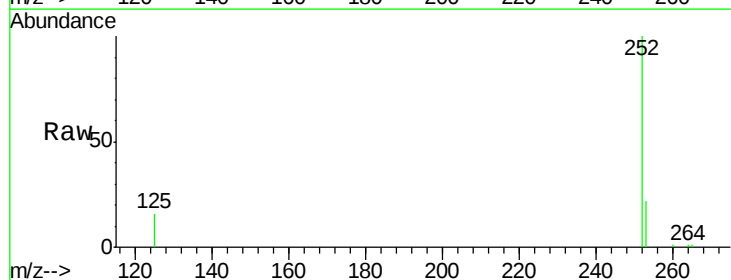
Tgt Ion:252 Resp: 13821

Ion Ratio Lower Upper

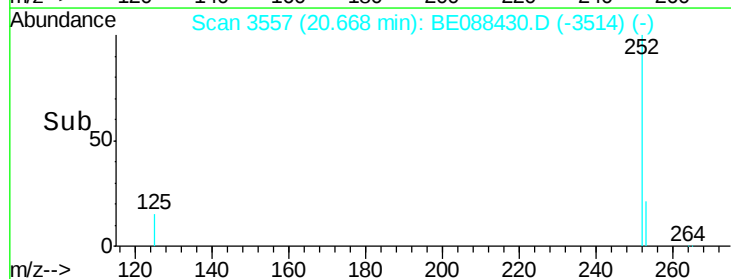
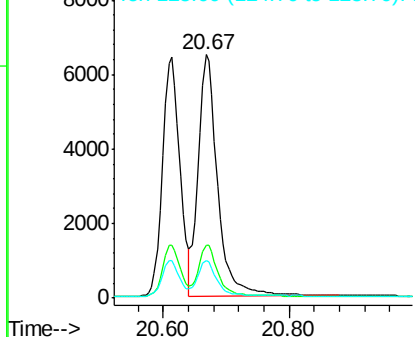
252 100

253 22.0 17.8 26.8

125 15.5 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: 1.02 ng

RT: 21.26 min Scan# 3686

Delta R.T. 0.00 min

Lab File: BE088430.D

Acq: 31 Oct 2014 19:15

Instrument :

BNA_E

ClientSampleId :

ICVBE103114

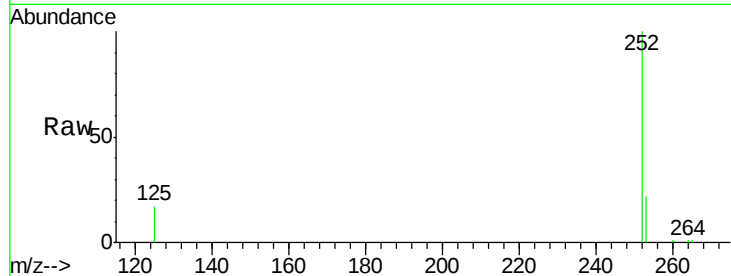
Tgt Ion:252 Resp: 11665

Ion Ratio Lower Upper

252 100

253 22.3 18.2 27.4

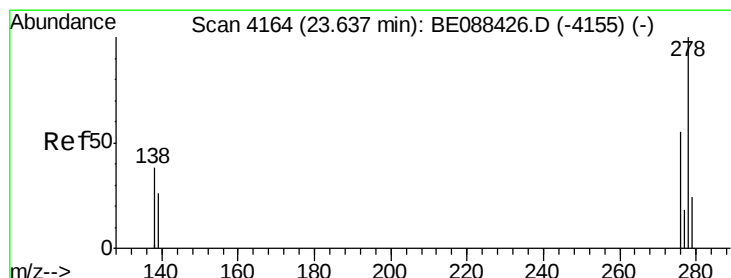
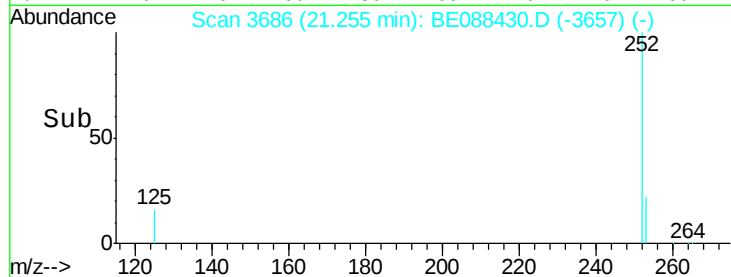
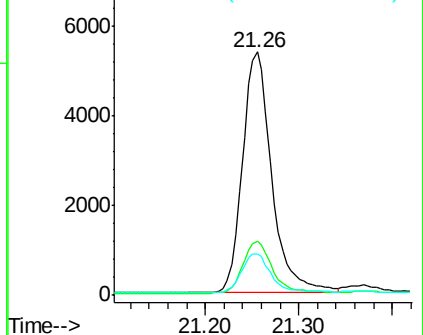
125 16.8 13.7 20.5



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: 1.00 ng

RT: 23.64 min Scan# 4164

Delta R.T. -0.00 min

Lab File: BE088430.D

Acq: 31 Oct 2014 19:15

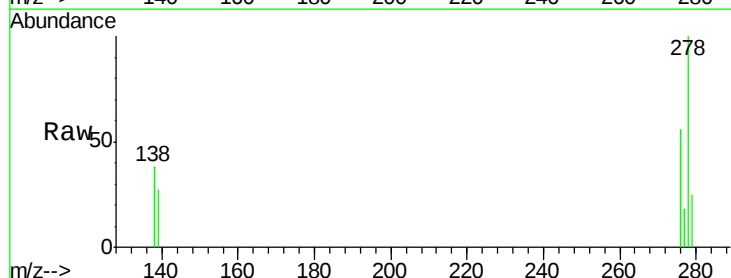
Tgt Ion:278 Resp: 10636

Ion Ratio Lower Upper

278 100

139 27.1 22.1 33.1

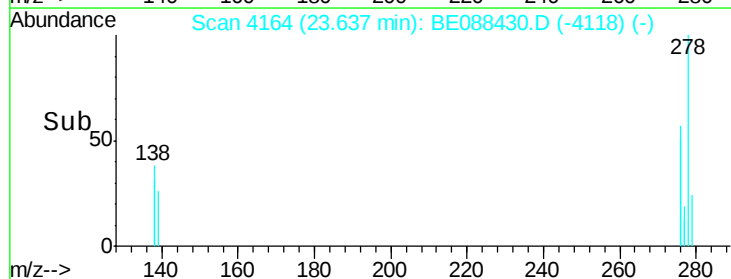
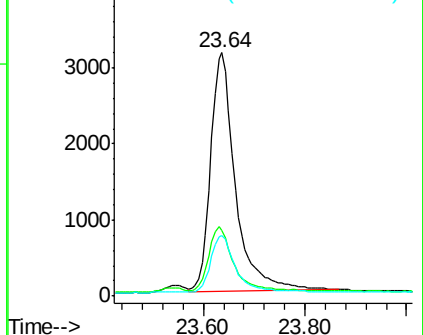
279 24.8 19.7 29.5

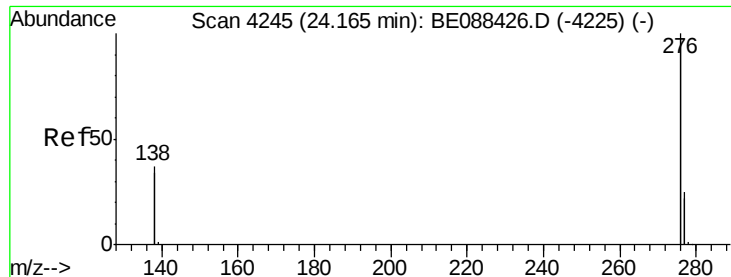


Abundance Ion 278.00 (277.70 to 278.70): E

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: 1.02 ng

RT: 24.16 min Scan# 4245

Delta R.T. -0.00 min

Lab File: BE088430.D

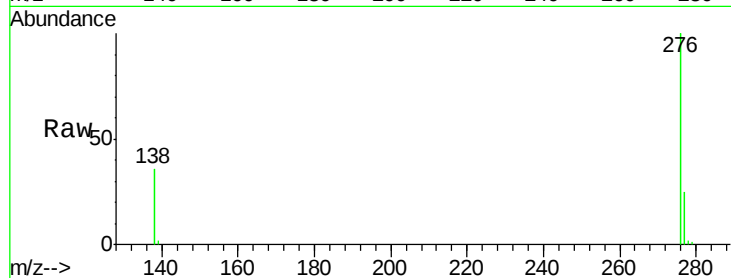
Acq: 31 Oct 2014 19:15

Instrument :

BNA_E

ClientSampleId :

ICVBE103114



Tgt Ion: 276 Resp: 49623

Ion Ratio Lower Upper

276 100

277 24.5 19.8 29.6

138 35.9 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

