

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088457.D
 Acq On : 1 Nov 2014 18:43
 Operator : TP/JJ
 Sample : F4379-10
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB35-1014

Quant Time: Nov 02 04:18:43 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	7.08	152	1195	5.00	ng	0.00
3) Naphthalene-d8	8.63	136	3	5.00	ng	-0.02
7) Acenaphthene-d10	10.79	164	36	5.00	ng	0.00
12) Phenanthrene-d10	12.89	188	247	5.00	ng	0.00
16) Chrysene-d12	0.00	240	0	0.00	ng	-18.31
22) Perylene-d12	21.34	264	79	5.00	ng	-0.04

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.78	82	347643	1580111.78	ng	0.00
8) 2-Fluorobiphenyl	9.98	172	402261	39643.52	ng	0.00
18) Terphenyl-d14	16.08	244	315891	0.00	ng	0.00

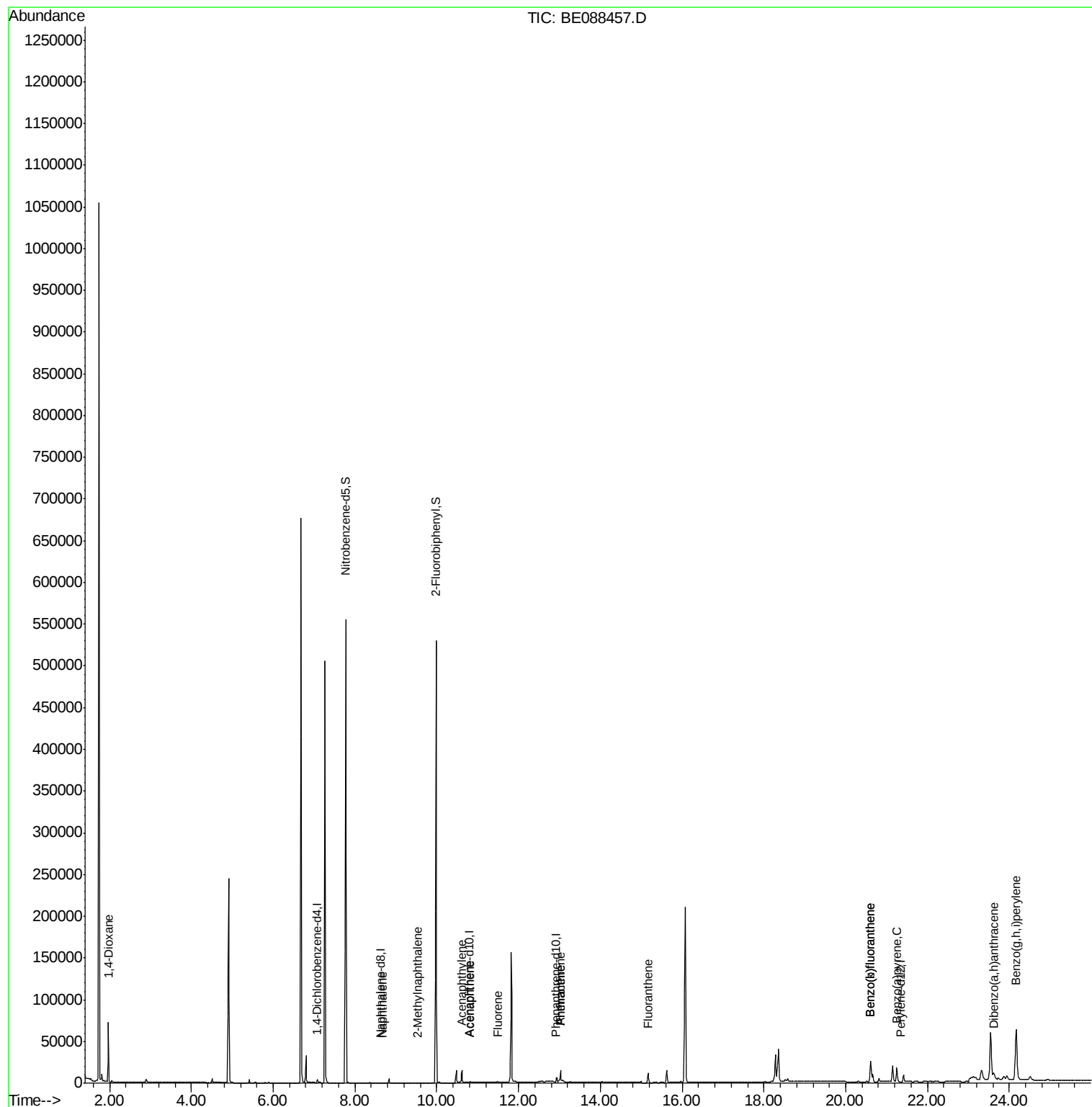
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.97	88	2261	14.46	ng	# 1
5) Naphthalene	8.67	128	182	293.15	ng	# 29
6) 2-Methylnaphthalene	9.52	142	104	270.45	ng	# 70
9) Acenaphthylene	10.62	152	23909	410.04	ng	# 96
10) Acenaphthene	10.82	154	173	20.01	ng	# 50
11) Fluorene	11.48	166	575	62.72	ng	# 85
13) Phenanthrene	13.02	178	18499	82.43	ng	96
14) Anthracene	13.02	178	18499	102.07	ng	96
15) Fluoranthene	15.17	202	11319	310.71	ng	100
23) Benzo(b)fluoranthene	20.61	252	42331	2443.57	ng	96
24) Benzo(k)fluoranthene	20.61	252	42331	2218.86	ng	96
25) Benzo(a)pyrene	21.25	252	23256	1398.23	ng	95
26) Dibenzo(a,h)anthracene	23.62	278	5693	368.57	ng	# 79
27) Benzo(g,h,i)perylene	24.17	276	115670	1632.92	ng	99

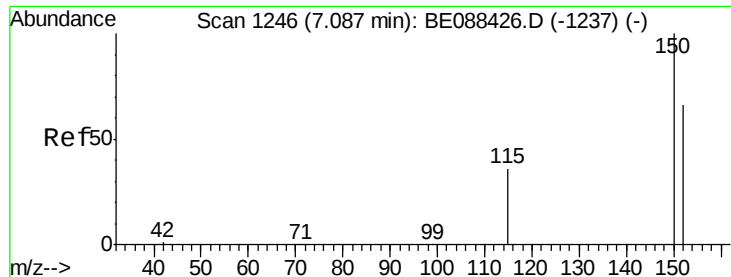
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.08 min Scan# 1245

Delta R.T. -0.00 min

Lab File: BE088457.D

Acq: 1 Nov 2014 18:43

Instrument :

BNA_E

ClientSampleId :

YS19-SB35-1014

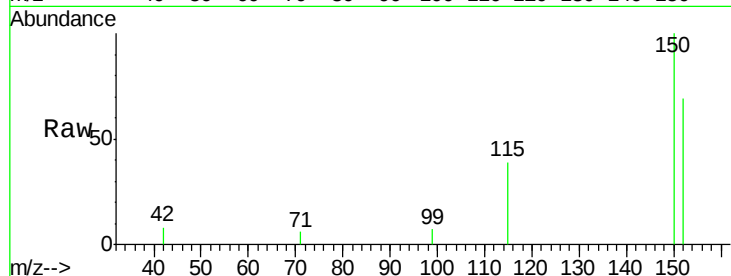
Tgt Ion:152 Resp: 1195

Ion Ratio Lower Upper

152 100

150 145.6 121.8 182.8

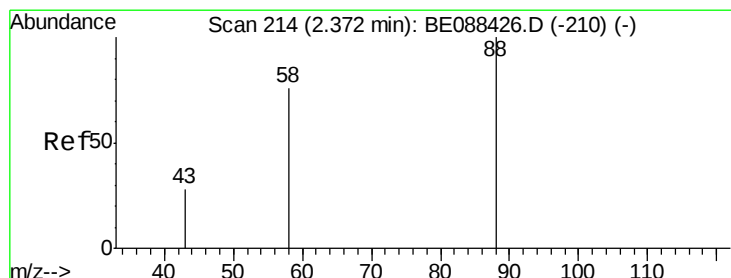
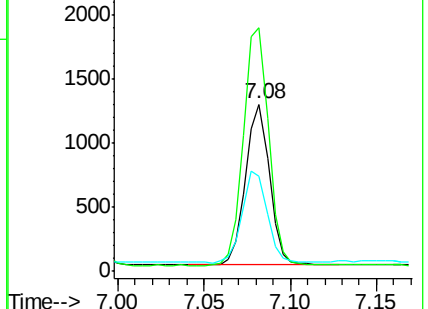
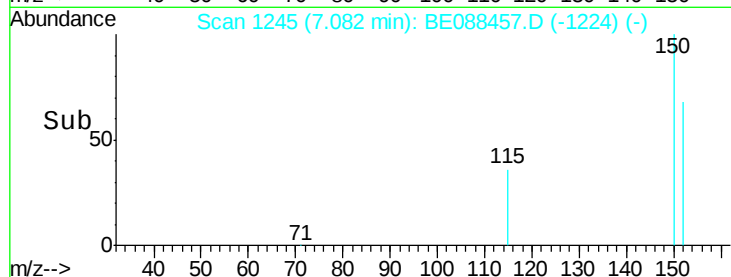
115 56.8 43.9 65.9



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: 14.46 ng

RT: 1.97 min Scan# 126

Delta R.T. -0.40 min

Lab File: BE088457.D

Acq: 1 Nov 2014 18:43

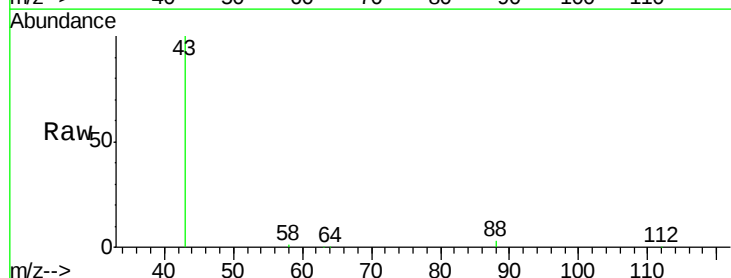
Tgt Ion: 88 Resp: 2261

Ion Ratio Lower Upper

88 100

58 24.4 59.1 88.7#

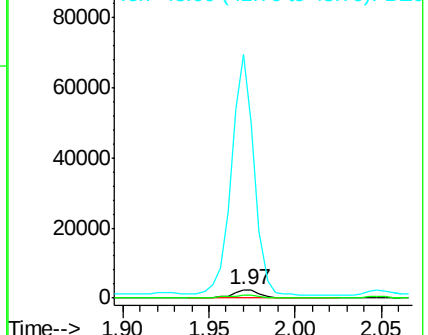
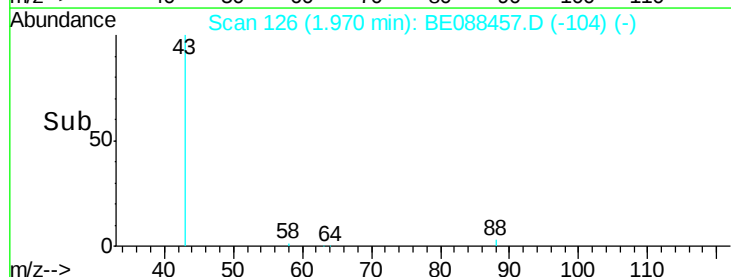
43 2789.3 21.9 32.9#

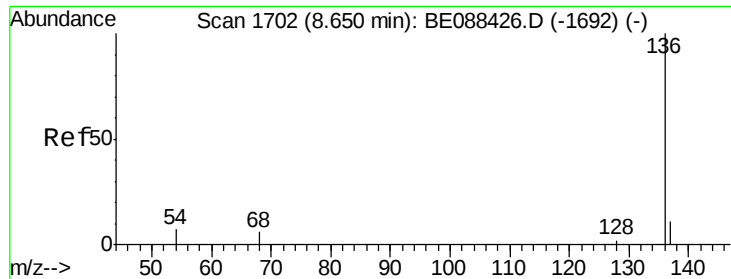


Abundance Ion 88.00 (87.70 to 88.70): BE0

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: 8.63 min Scan# 1697

Delta R.T. -0.02 min

Lab File: BE088457.D

Acq: 1 Nov 2014 18:43

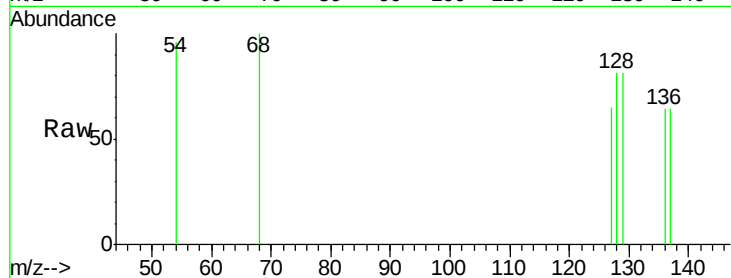
Instrument :

BNA_E

ClientSampleId :

YS19-SB35-1014

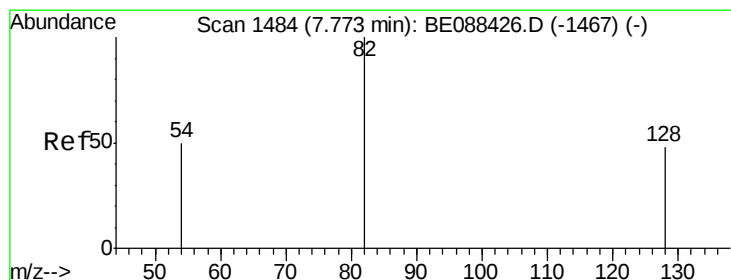
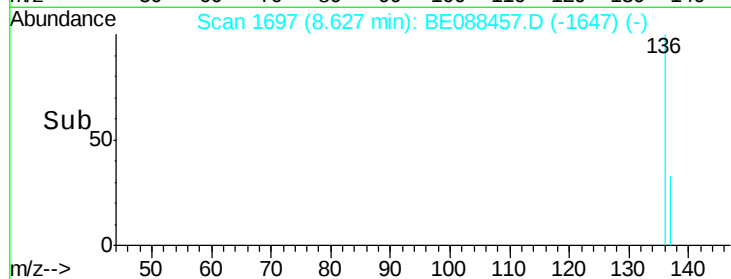
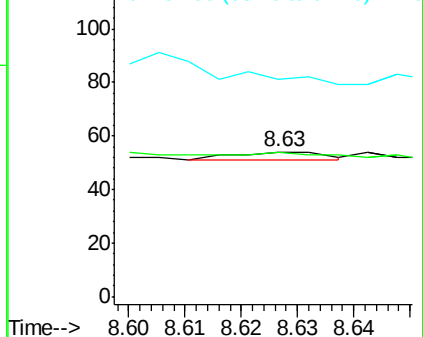
Tgt Ion:	136	Resp:	3
Ion	Ratio	Lower	Upper
136	100		
137	100.0	8.8	13.2#
54	150.0	5.3	7.9#



Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0



#4

Nitrobenzene-d5

Concen: 1580111.78 ng

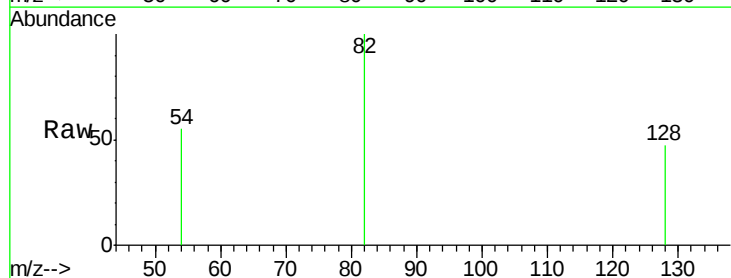
RT: 7.78 min Scan# 1485

Delta R.T. 0.00 min

Lab File: BE088457.D

Acq: 1 Nov 2014 18:43

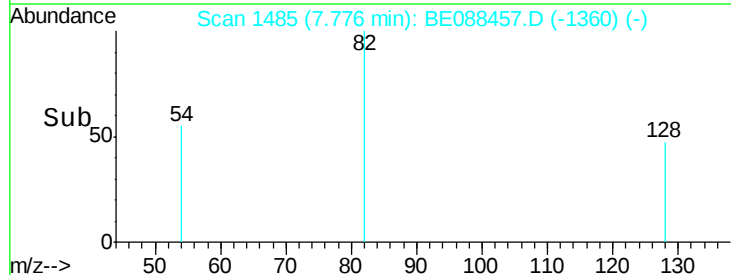
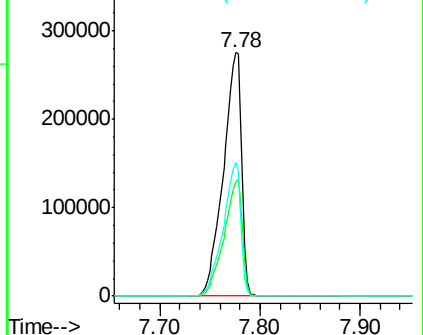
Tgt Ion:	82	Resp:	347643
Ion	Ratio	Lower	Upper
82	100		
128	46.9	38.4	57.6
54	54.8	40.2	60.2



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Naphthalene

Concen: 293.15 ng

RT: 8.67 min Scan# 1705

Delta R.T. -0.00 min

Lab File: BE088457.D

Acq: 1 Nov 2014 18:43

Instrument :

BNA_E

ClientSampleId :

YS19-SB35-1014

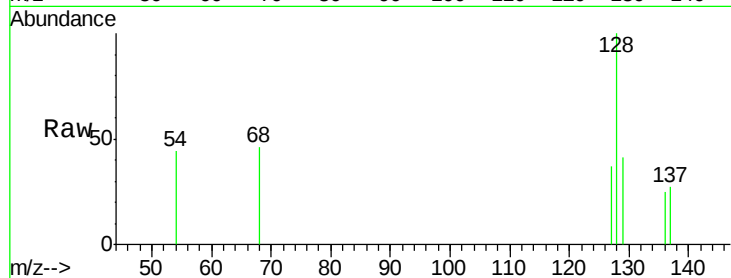
Tgt Ion:128 Resp: 182

Ion Ratio Lower Upper

128 100

129 41.2 8.6 12.8#

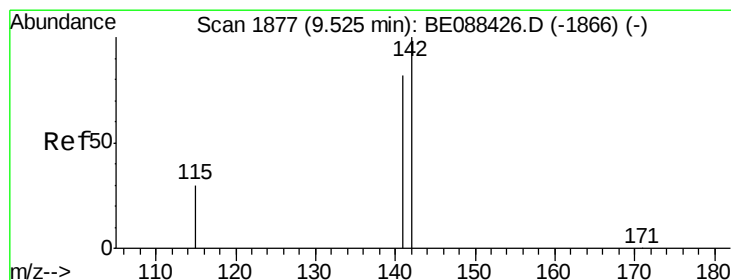
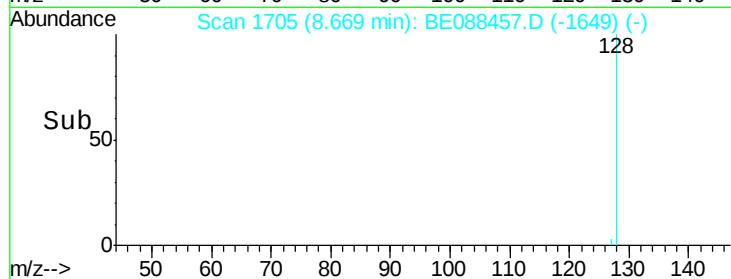
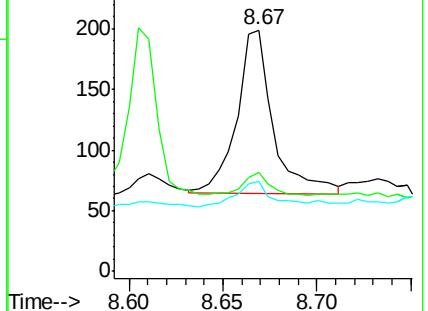
127 37.2 10.1 15.1#



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



#6

2-Methylnaphthalene

Concen: 270.45 ng

RT: 9.52 min Scan# 1875

Delta R.T. -0.00 min

Lab File: BE088457.D

Acq: 1 Nov 2014 18:43

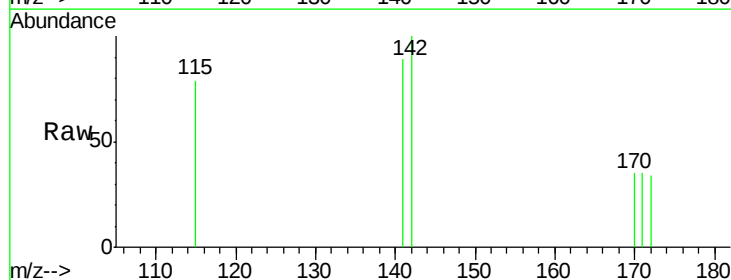
Tgt Ion:142 Resp: 104

Ion Ratio Lower Upper

142 100

141 88.9 65.8 98.8

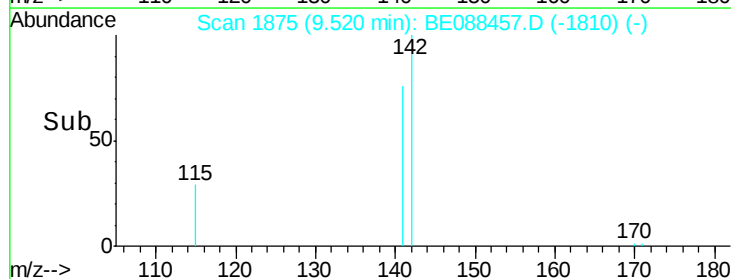
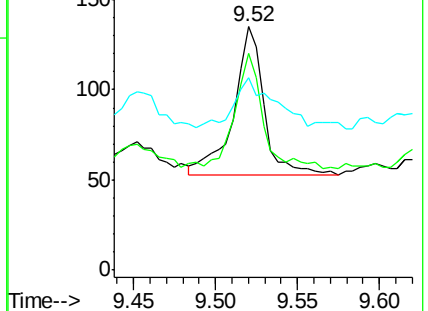
115 79.3 24.2 36.4#



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





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.79 min Scan# 2108

Delta R.T. -0.00 min

Lab File: BE088457.D

Acq: 1 Nov 2014 18:43

Instrument :

BNA_E

ClientSampleId :

YS19-SB35-1014

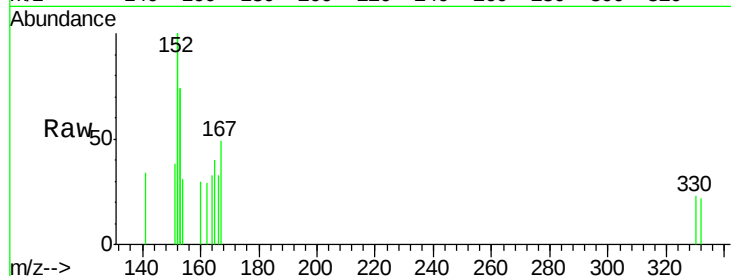
Tgt Ion:164 Resp: 36

Ion Ratio Lower Upper

164 100

162 87.9 77.0 115.4

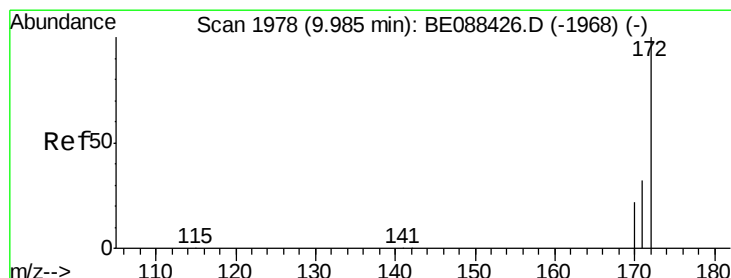
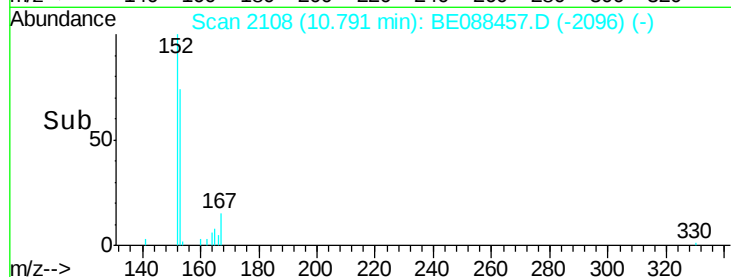
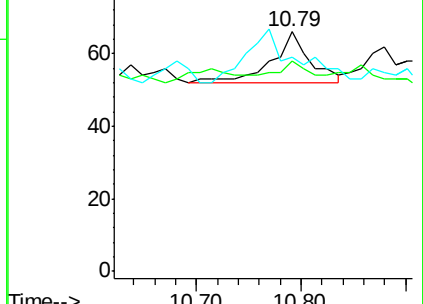
160 89.4 36.8 55.2#



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: 39643.52 ng

RT: 9.98 min Scan# 1977

Delta R.T. -0.00 min

Lab File: BE088457.D

Acq: 1 Nov 2014 18:43

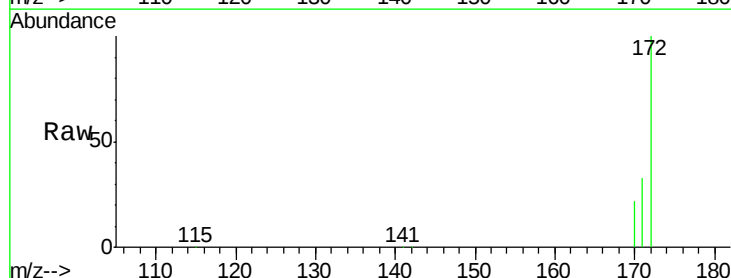
Tgt Ion:172 Resp: 402261

Ion Ratio Lower Upper

172 100

171 32.6 26.0 39.0

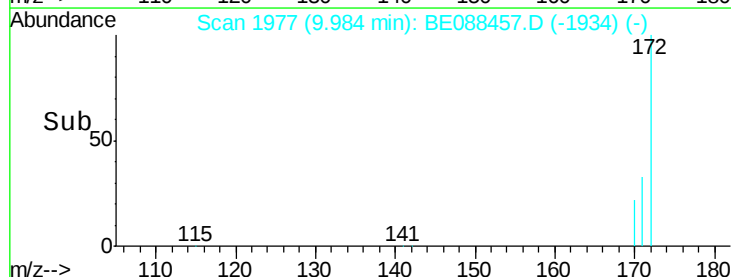
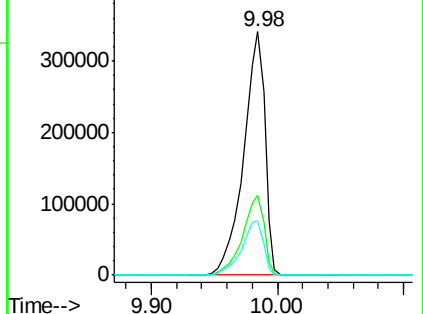
170 22.2 17.6 26.4



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: 410.04 ng

RT: 10.62 min Scan# 2092

Delta R.T. -0.00 min

Lab File: BE088457.D

Acq: 1 Nov 2014 18:43

Instrument :

BNA_E

ClientSampleId :

YS19-SB35-1014

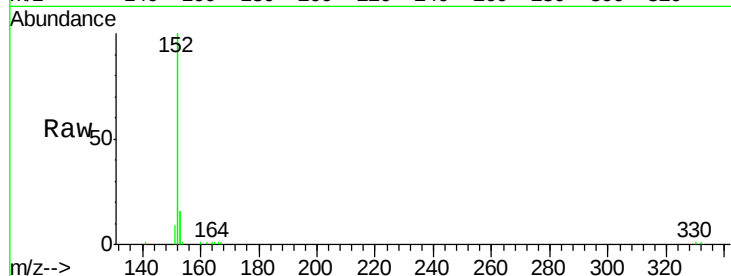
Tgt Ion:152 Resp: 23909

Ion Ratio Lower Upper

152 100

151 3.8 4.4 6.6#

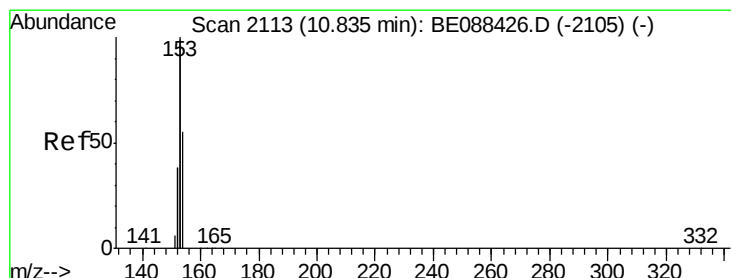
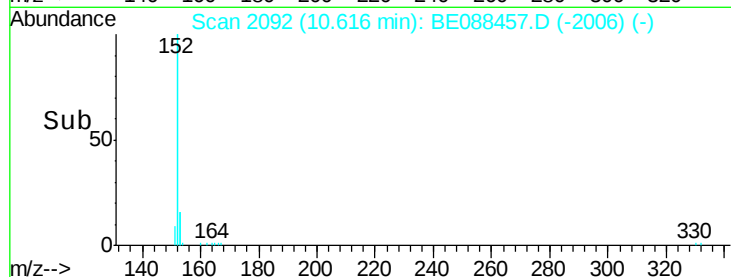
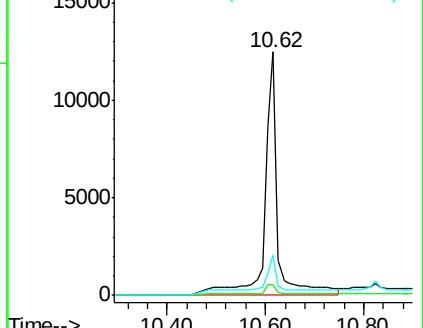
153 11.6 10.5 15.7



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: 20.01 ng

RT: 10.82 min Scan# 2111

Delta R.T. -0.01 min

Lab File: BE088457.D

Acq: 1 Nov 2014 18:43

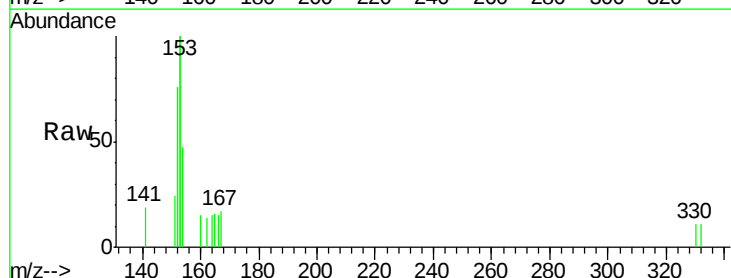
Tgt Ion:154 Resp: 173

Ion Ratio Lower Upper

154 100

153 376.9 324.3 486.5

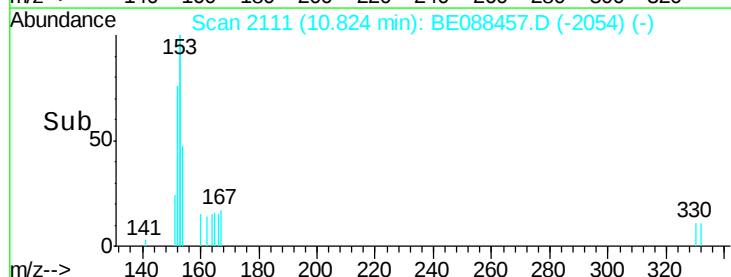
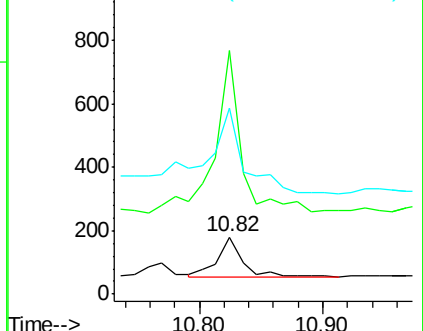
152 0.0 154.9 232.3#

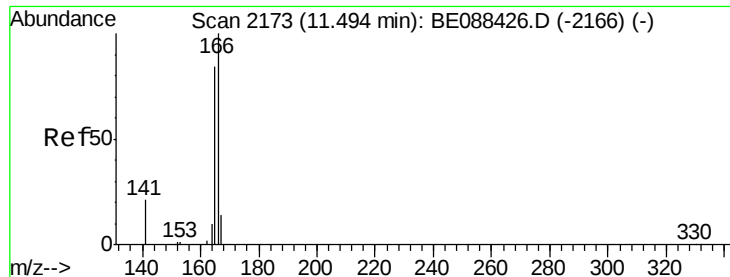


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 62.72 ng

RT: 11.48 min Scan# 2171

Delta R.T. -0.01 min

Lab File: BE088457.D

Acq: 1 Nov 2014 18:43

Instrument :

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YS19-SB35-1014

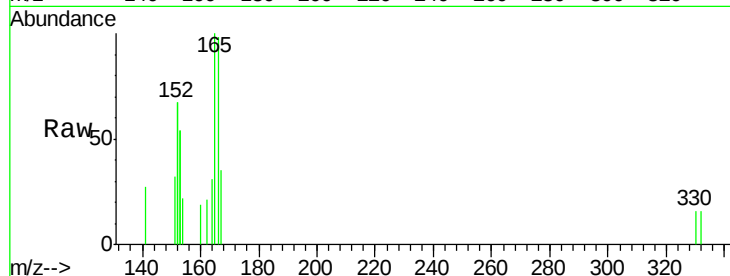
Tgt Ion:166 Resp: 575

Ion Ratio Lower Upper

166 100

165 103.7 71.3 106.9

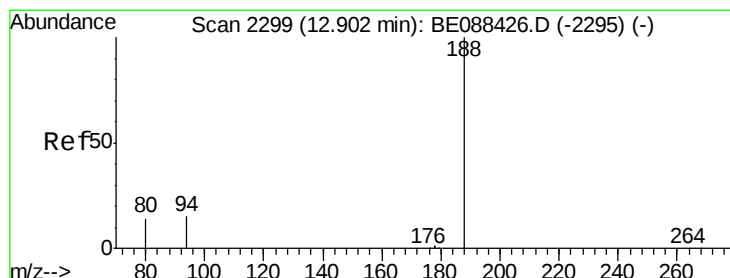
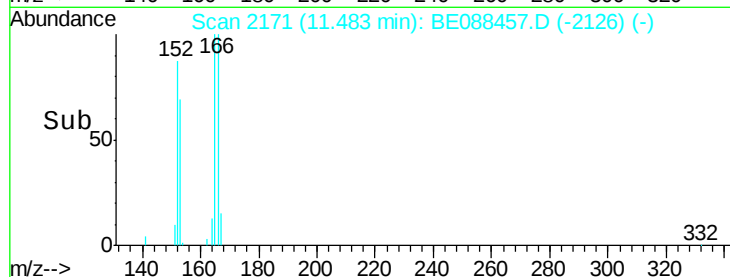
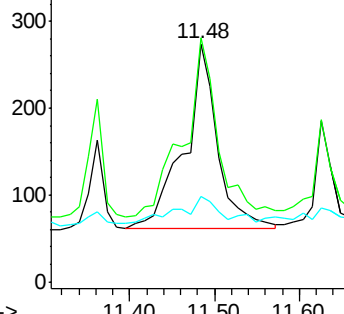
167 19.0 10.7 16.1#



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: 12.89 min Scan# 2297

Delta R.T. -0.01 min

Lab File: BE088457.D

Acq: 1 Nov 2014 18:43

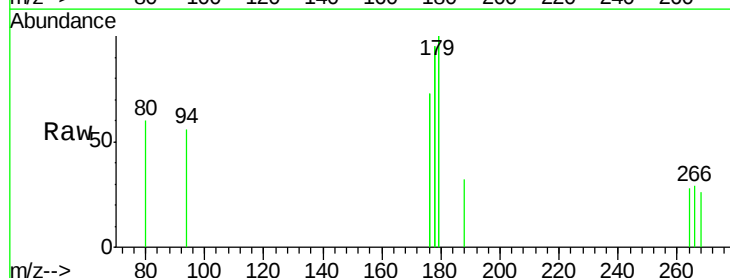
Tgt Ion:188 Resp: 247

Ion Ratio Lower Upper

188 100

94 175.0 11.8 17.8#

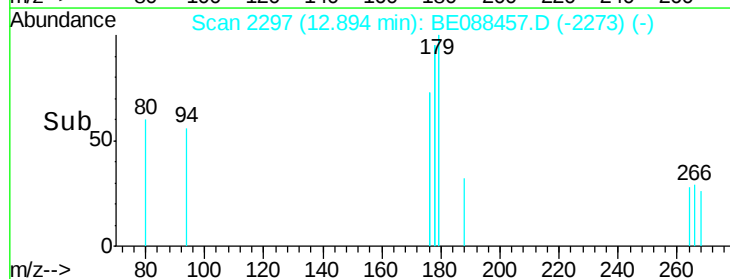
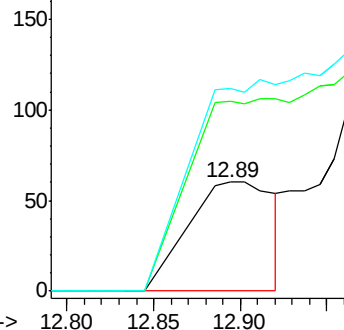
80 186.7 10.9 16.3#

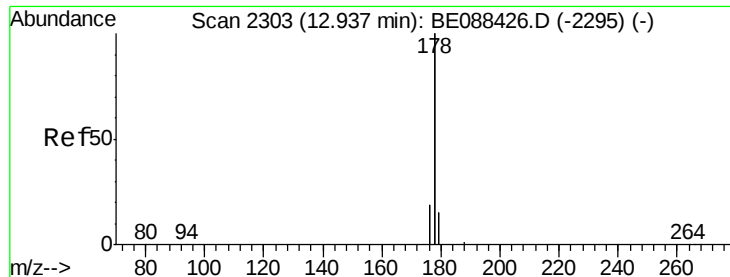


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 82.43 ng

RT: 13.02 min Scan# 2312

Delta R.T. 0.09 min

Lab File: BE088457.D

Acq: 1 Nov 2014 18:43

Instrument :

BNA_E

ClientSampleId :

YS19-SB35-1014

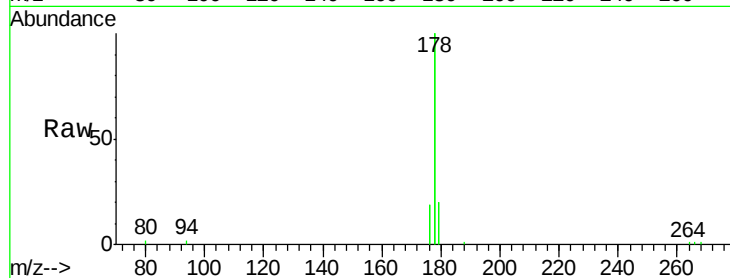
Tgt Ion:178 Resp: 18499

Ion Ratio Lower Upper

178 100

176 18.4 15.4 23.2

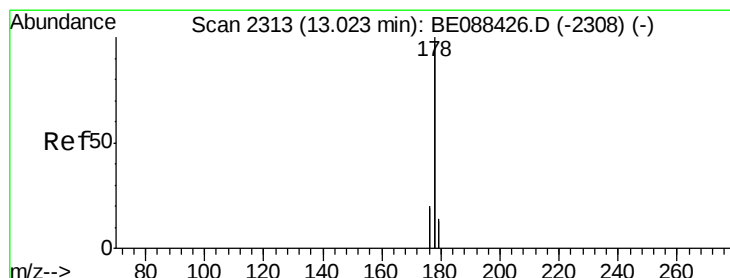
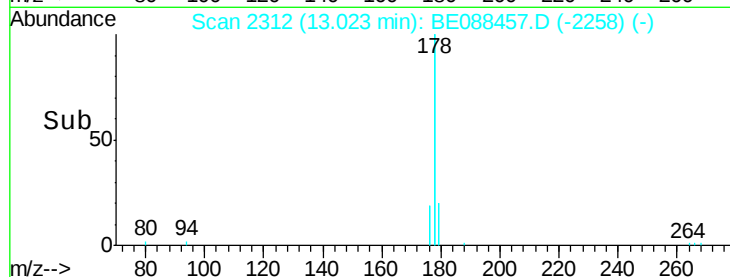
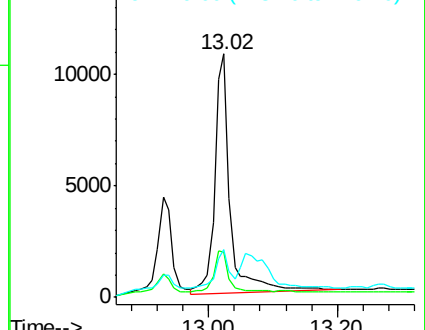
179 18.5 12.8 19.2



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



#14

Anthracene

Concen: 102.07 ng

RT: 13.02 min Scan# 2312

Delta R.T. 0.00 min

Lab File: BE088457.D

Acq: 1 Nov 2014 18:43

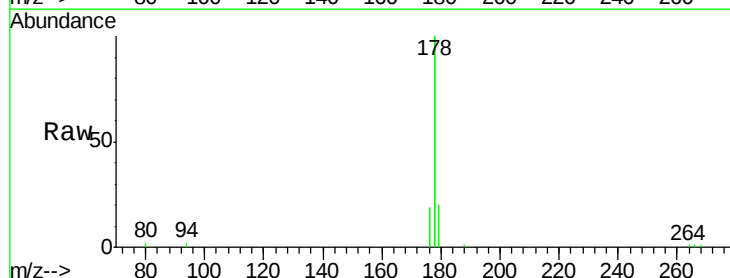
Tgt Ion:178 Resp: 18499

Ion Ratio Lower Upper

178 100

176 18.4 15.0 22.4

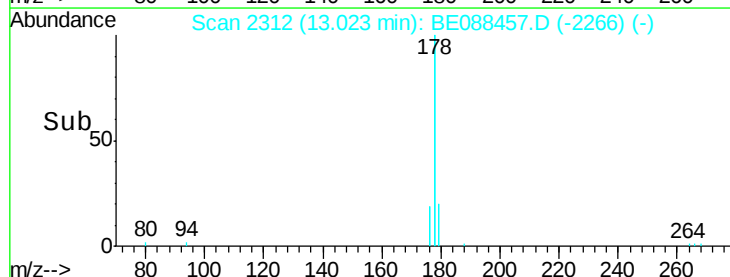
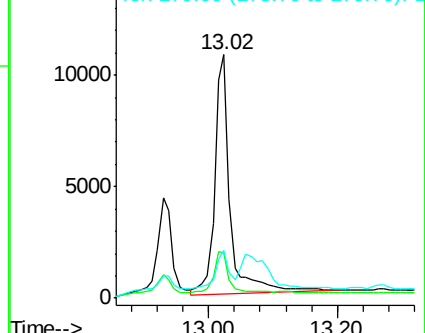
179 18.5 12.5 18.7

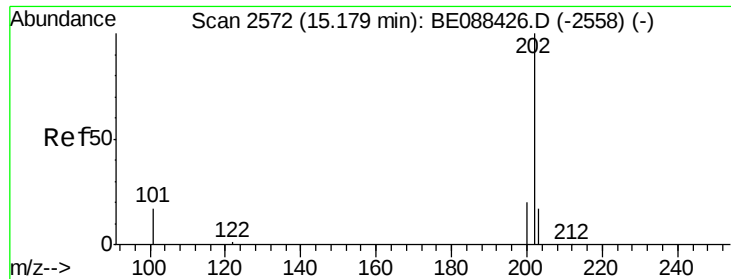


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 310.71 ng

RT: 15.17 min Scan# 2569

Delta R.T. -0.01 min

Lab File: BE088457.D

Acq: 1 Nov 2014 18:43

Instrument :

BNA_E

ClientSampleId :

YS19-SB35-1014

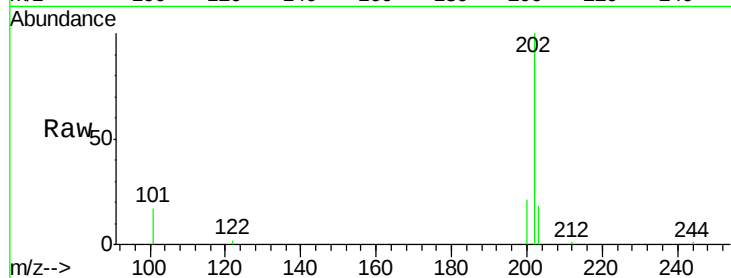
Tgt Ion: 202 Resp: 11319

Ion Ratio Lower Upper

202 100

101 17.5 14.3 21.5

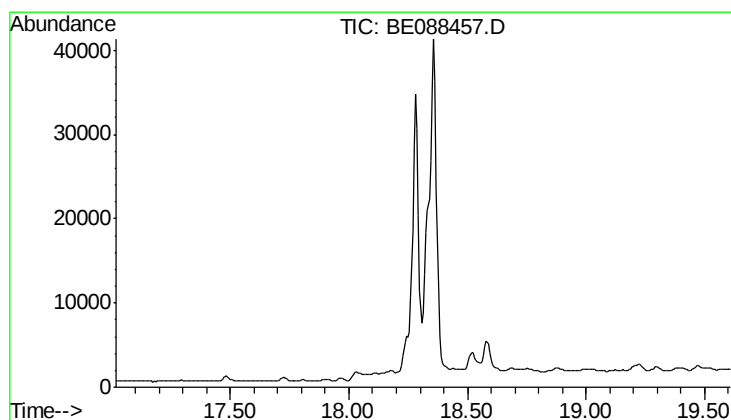
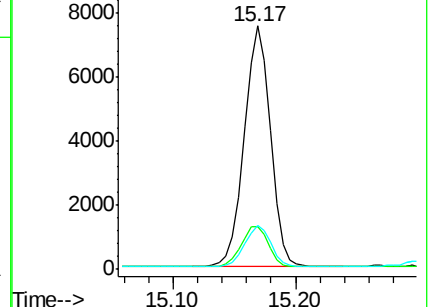
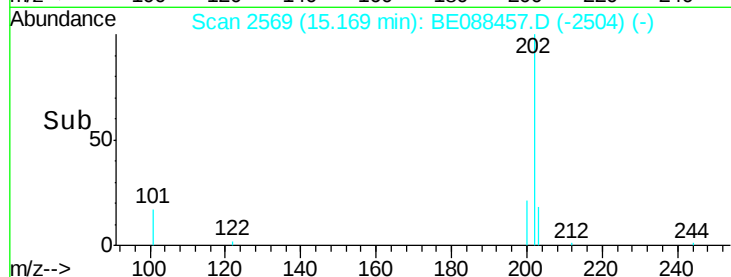
203 17.0 13.6 20.4



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: 0.00 ng

Expected RT: 18.31 min

Lab File: BE088457.D

Acq: 1 Nov 2014 18:43

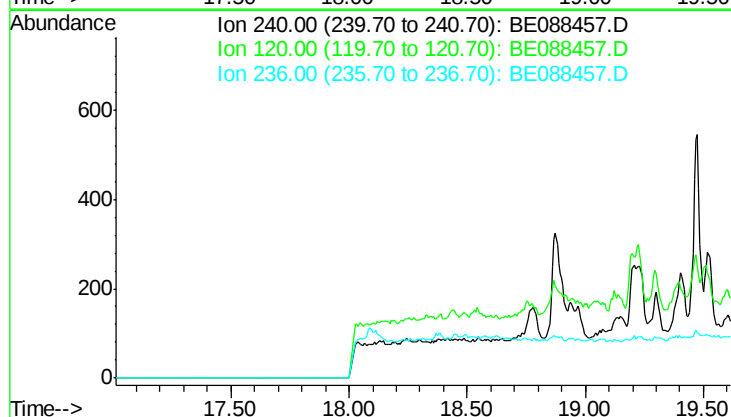
Tgt Ion: 240

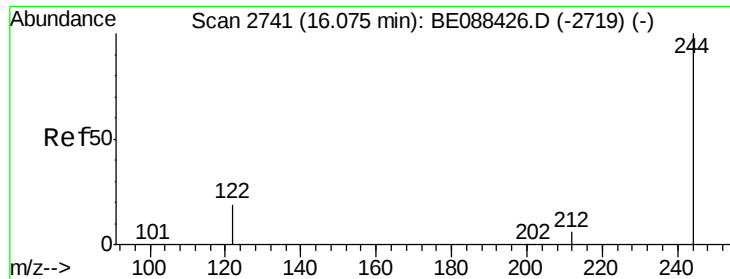
Sig Exp Ratio

240 100

120 20.5

236 25.6





#18

Terphenyl-d14

Concen: 0.00 ng

RT: 16.08 min Scan# 2741

Delta R.T. 0.01 min

Lab File: BE088457.D

Acq: 1 Nov 2014 18:43

Instrument :

BNA_E

ClientSampleId :

YS19-SB35-1014

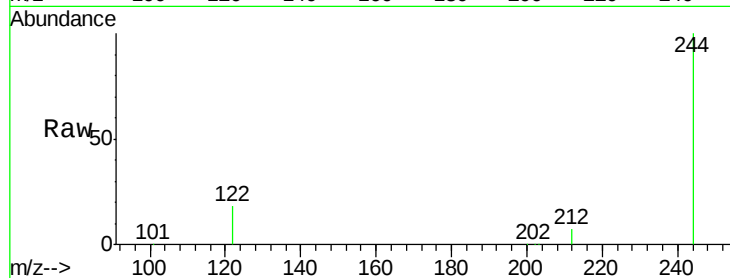
Tgt Ion:244 Resp: 315891

Ion Ratio Lower Upper

244 100

212 7.0 5.5 8.3

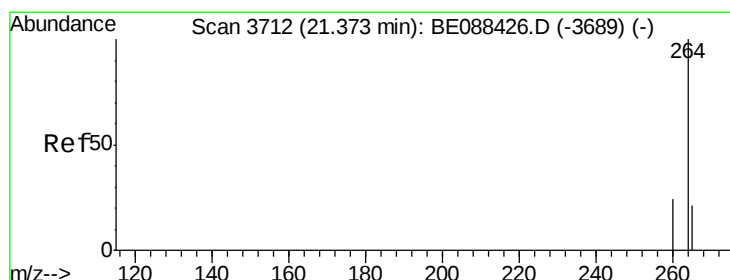
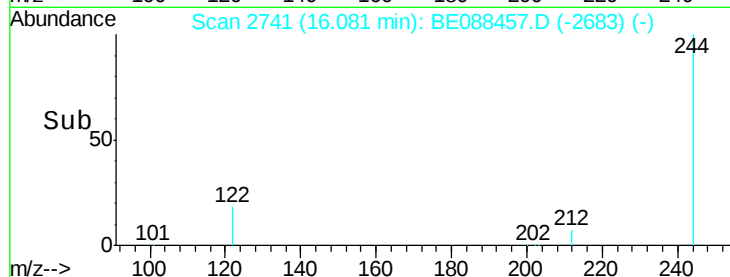
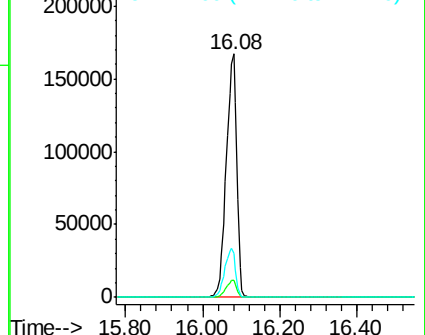
122 18.1 15.6 23.4



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



#22

Perylene-d12

Concen: 5.00 ng

RT: 21.34 min Scan# 3703

Delta R.T. -0.04 min

Lab File: BE088457.D

Acq: 1 Nov 2014 18:43

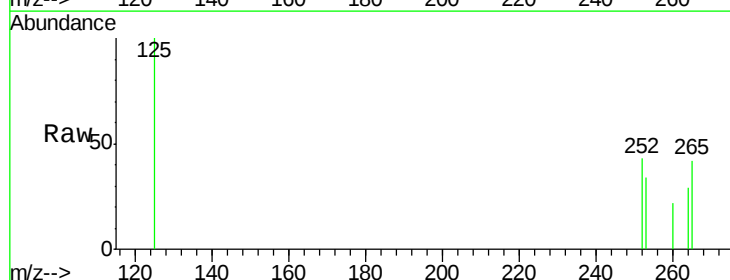
Tgt Ion:264 Resp: 79

Ion Ratio Lower Upper

264 100

260 74.0 18.9 28.3#

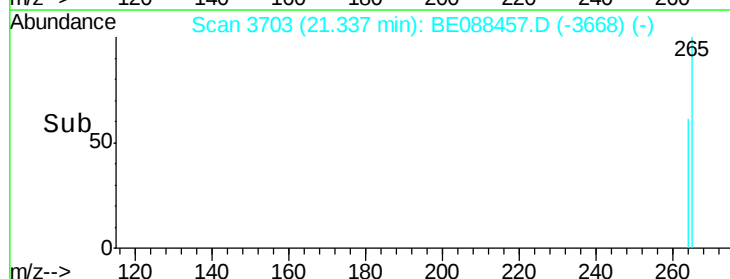
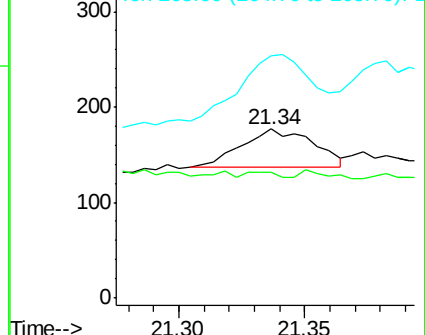
265 143.5 17.2 25.8#

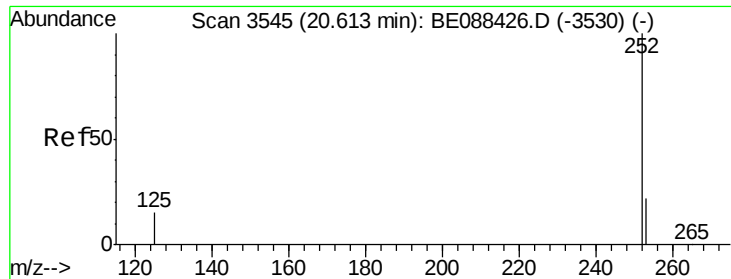


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 2443.57 ng

RT: 20.61 min Scan# 3543

Delta R.T. -0.00 min

Lab File: BE088457.D

Acq: 1 Nov 2014 18:43

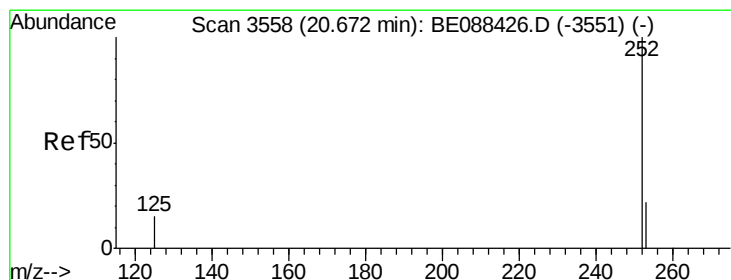
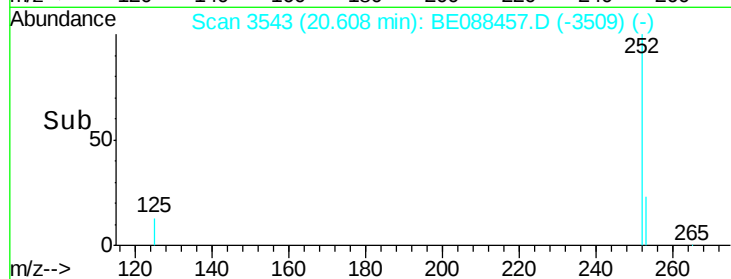
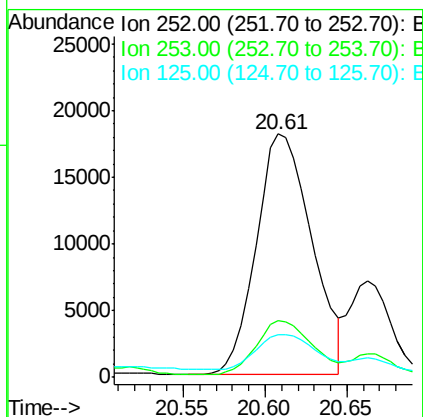
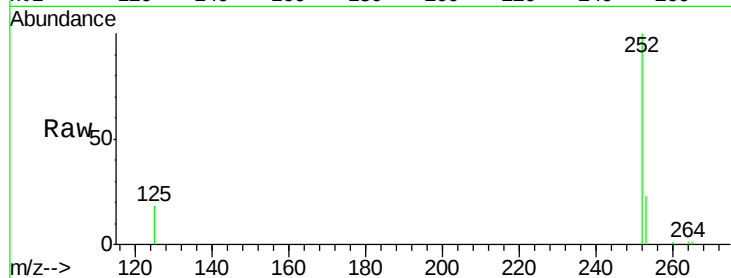
Instrument :

BNA_E

ClientSampleId :

YS19-SB35-1014

Tgt Ion:	252	Resp:	42331
Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.8	26.8
125	17.8	12.3	18.5



#24

Benzo(k)fluoranthene

Concen: 2218.86 ng

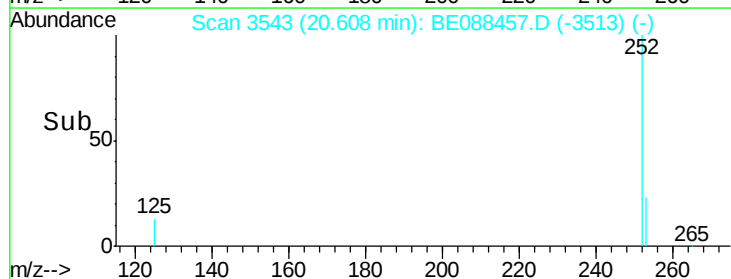
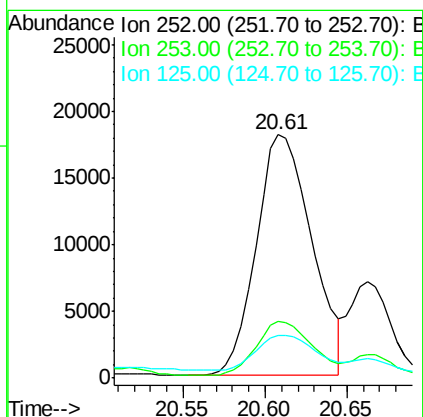
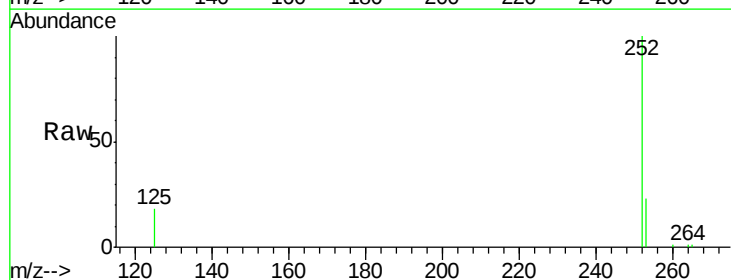
RT: 20.61 min Scan# 3543

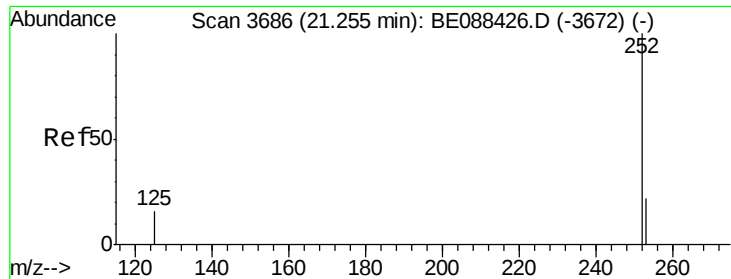
Delta R.T. -0.06 min

Lab File: BE088457.D

Acq: 1 Nov 2014 18:43

Tgt Ion:	252	Resp:	42331
Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.8	26.8
125	17.8	12.2	18.4





#25

Benzo(a)pyrene

Concen: 1398.23 ng

RT: 21.25 min Scan# 3684

Delta R.T. -0.00 min

Lab File: BE088457.D

Acq: 1 Nov 2014 18:43

Instrument :

BNA_E

ClientSampleId :

YS19-SB35-1014

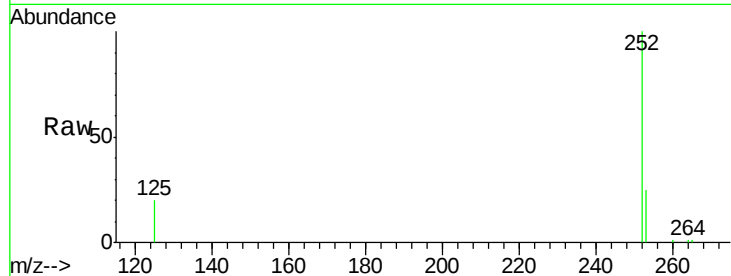
Tgt Ion: 252 Resp: 23256

Ion Ratio Lower Upper

252 100

253 24.7 18.2 27.4

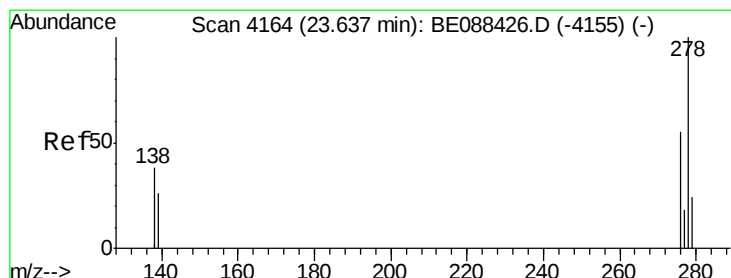
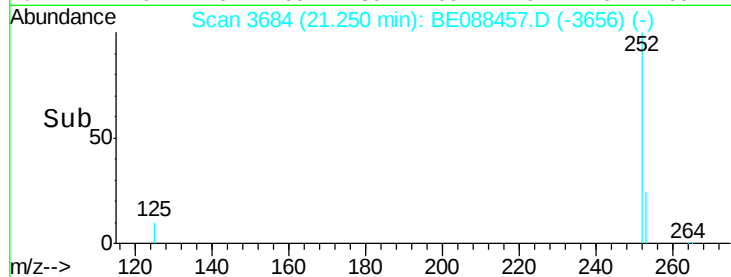
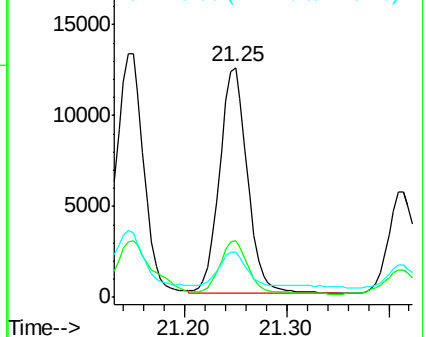
125 19.8 13.7 20.5



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: 368.57 ng

RT: 23.62 min Scan# 4161

Delta R.T. -0.01 min

Lab File: BE088457.D

Acq: 1 Nov 2014 18:43

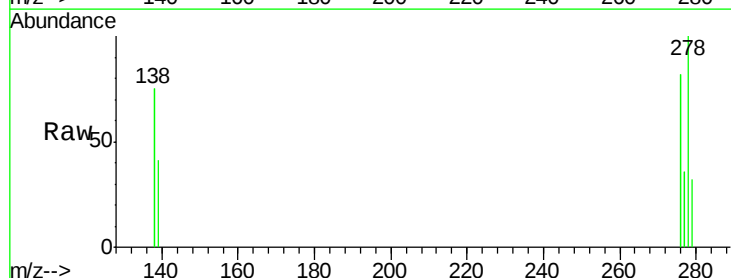
Tgt Ion: 278 Resp: 5693

Ion Ratio Lower Upper

278 100

139 40.7 22.1 33.1#

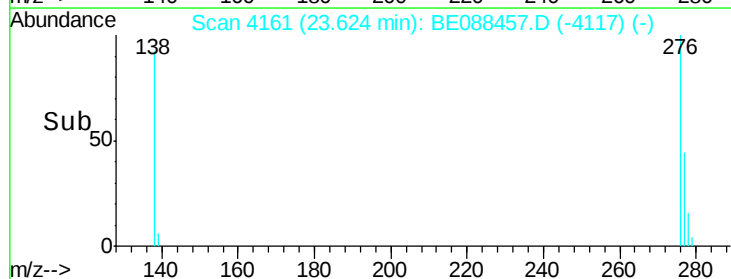
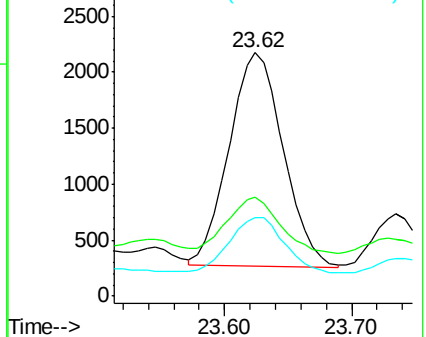
279 32.4 19.7 29.5#

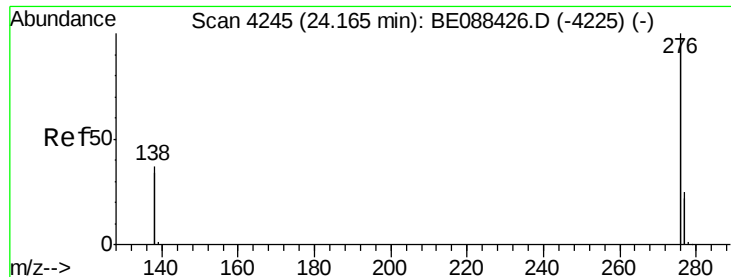


Abundance Ion 278.00 (277.70 to 278.70): E

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: 1632.92 ng

RT: 24.17 min Scan# 4245

Delta R.T. 0.01 min

Lab File: BE088457.D

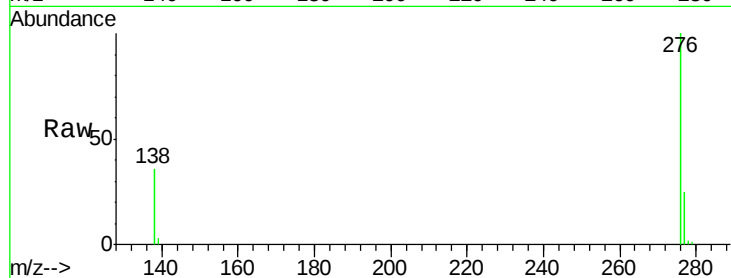
Acq: 1 Nov 2014 18:43

Instrument :

BNA_E

ClientSampleId :

YS19-SB35-1014



Tgt Ion: 276 Resp: 115670

Ion Ratio Lower Upper

276 100

277 25.4 19.8 29.6

138 35.7 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

