

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102014\
 Data File : BE088130.D
 Acq On : 21 Oct 2014 7:59
 Operator : TP/JJ
 Sample : F4244-11
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-EB01-100914-GW

Quant Time: Oct 21 08:39:36 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102014.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 21 02:11:14 2014
 Response via : Initial Calibration

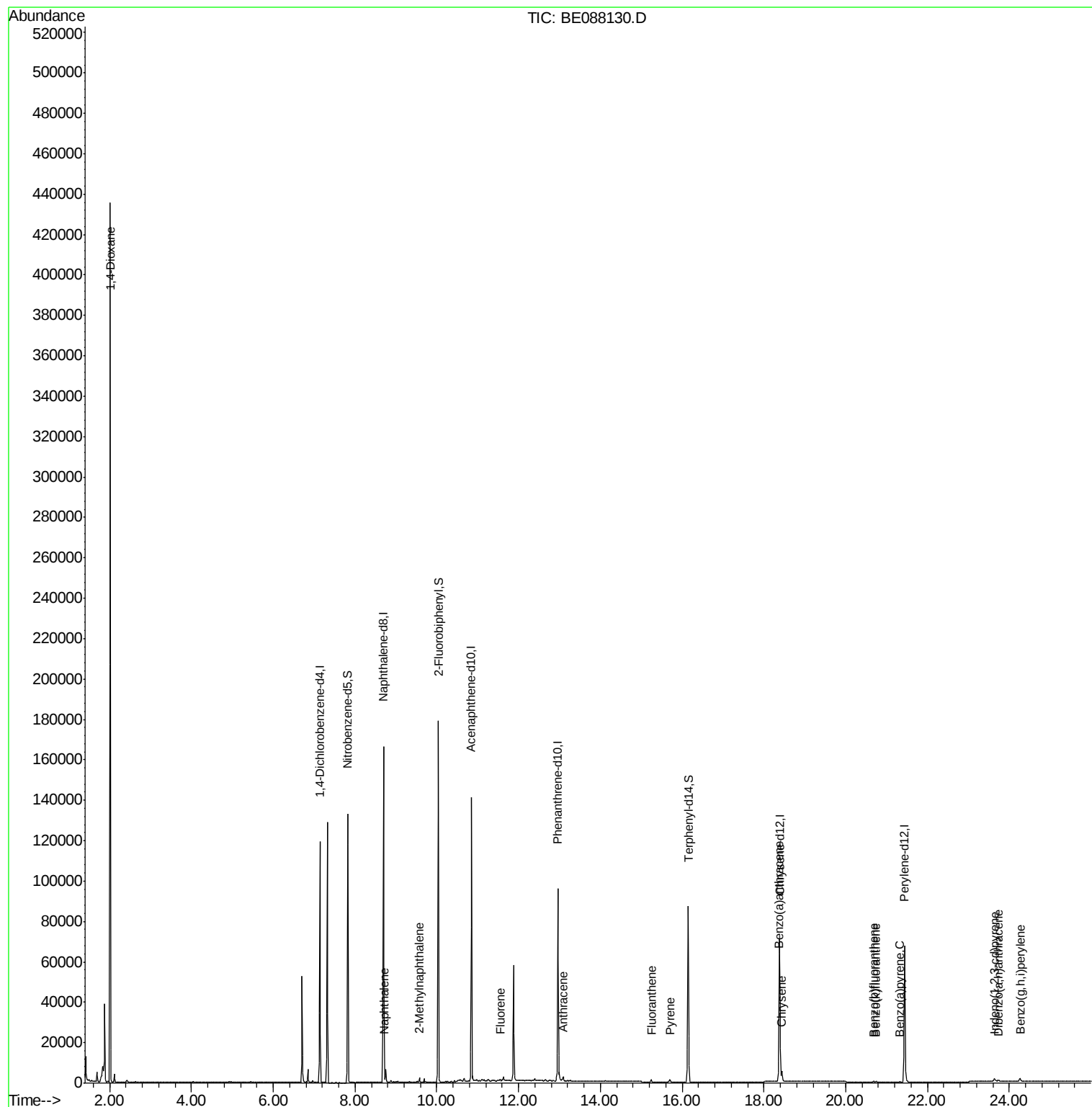
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	39263	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	144331	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	64369	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	116174	5.00	ng	0.00
16) Chrysene-d12	18.38	240	84585	5.00	ng	0.00
22) Perylene-d12	21.44	264	83275	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.83	82	68627	6.60	ng	0.00
8) 2-Fluorobiphenyl	10.04	172	118054	6.64	ng	0.00
18) Terphenyl-d14	16.15	244	111378	8.18	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.01	88	13762	2.44	ng	# 1
5) Naphthalene	8.72	128	1071	0.04	ng	# 83
6) 2-Methylnaphthalene	9.58	142	1168	0.07	ng	# 94
11) Fluorene	11.55	166	541	0.03	ng	# 80
13) Phenanthrene	13.00	178	5985	Below Cal		# 74
14) Anthracene	13.09	178	2392	0.03	ng	# 71
15) Fluoranthene	15.25	202	1553	0.07	ng	100
17) Pyrene	15.70	202	1688	0.07	ng	98
19) Benzo(a)anthracene	18.36	228	5633	0.07	ng	# 91
20) Chrysene	18.43	228	6157	0.08	ng	# 91
21) Indeno(1,2,3-cd)pyrene	23.63	276	2975	0.04	ng	# 82
23) Benzo(b)fluoranthene	20.68	252	1022	0.05	ng	# 79
24) Benzo(k)fluoranthene	20.74	252	1102	0.05	ng	# 82
25) Benzo(a)pyrene	21.32	252	715	0.04	ng	# 72
26) Dibenzo(a,h)anthracene	23.73	278	773	0.04	ng	# 69
27) Benzo(g,h,i)perylene	24.26	276	3464	0.04	ng	# 77

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1258

Delta R.T. 0.00 min

Lab File: BE088130.D

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Instrument :

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ClientSampleId :

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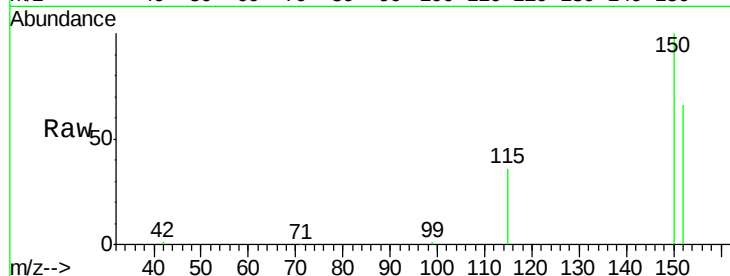
Tgt Ion:152 Resp: 39263

Ion Ratio Lower Upper

152 100

150 151.2 129.2 193.8

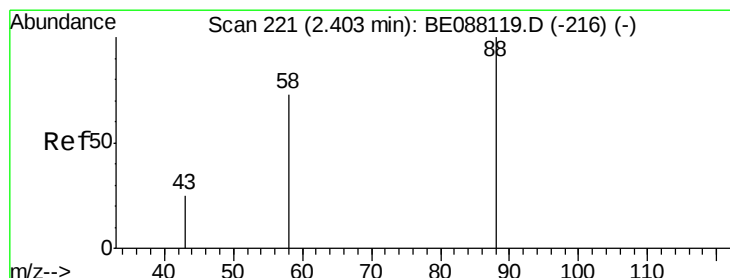
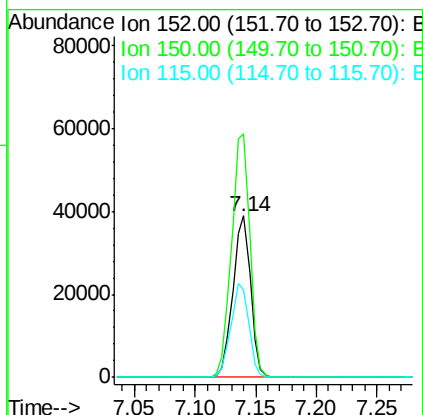
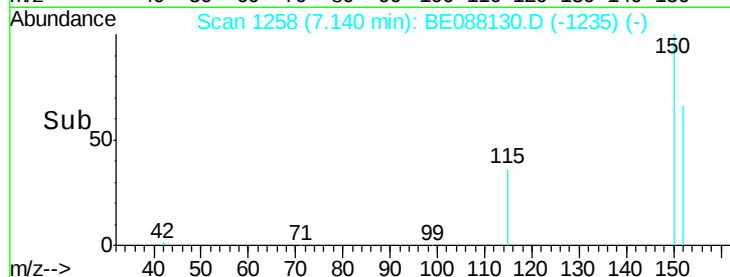
115 54.6 49.3 73.9



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: 2.44 ng

RT: 2.01 min Scan# 136

Delta R.T. -0.39 min

Lab File: BE088130.D

Acq: 21 Oct 2014 7:59

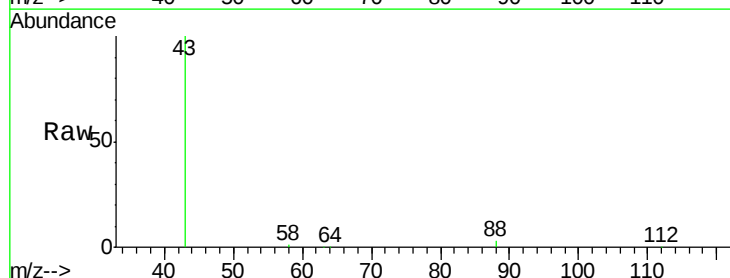
Tgt Ion: 88 Resp: 13762

Ion Ratio Lower Upper

88 100

58 27.5 59.5 89.3#

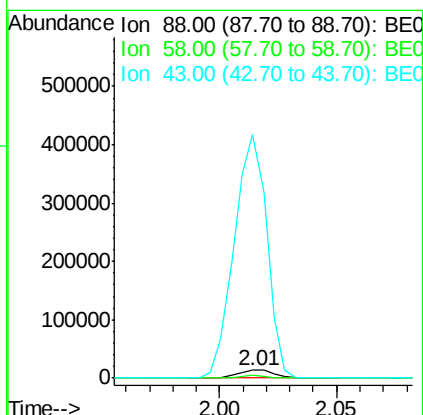
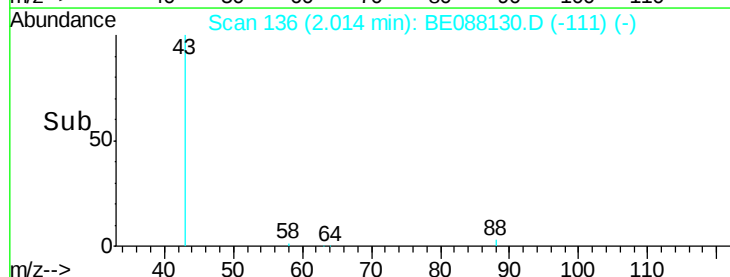
43 2943.4 21.2 31.8#

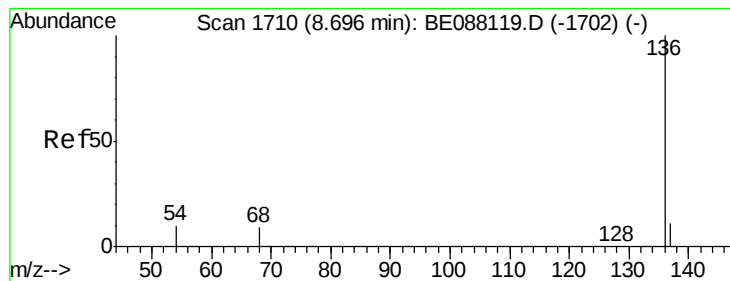


Abundance Ion 88.00 (87.70 to 88.70): BE0

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: 8.70 min Scan# 1710

Delta R.T. 0.00 min

Lab File: BE088130.D

Acq: 21 Oct 2014 7:59

Instrument :

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YS19-EB01-100914-GW

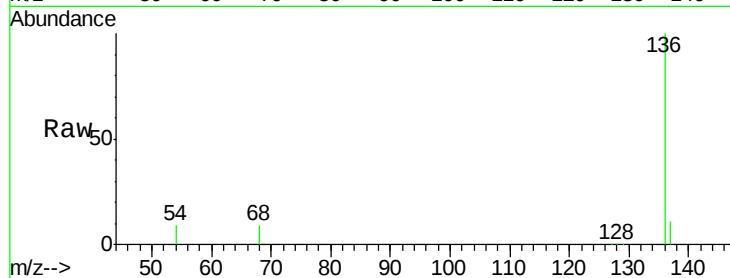
Tgt Ion: 136 Resp: 144331

Ion Ratio Lower Upper

136 100

137 10.7 8.6 12.8

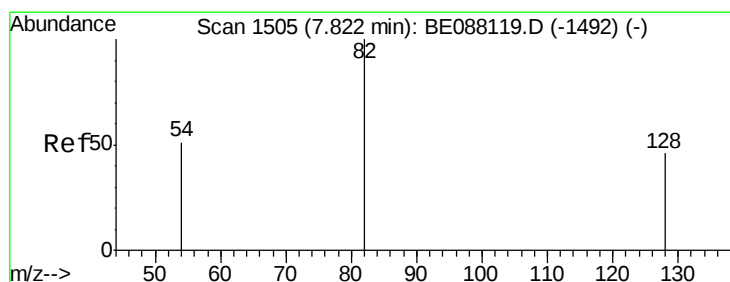
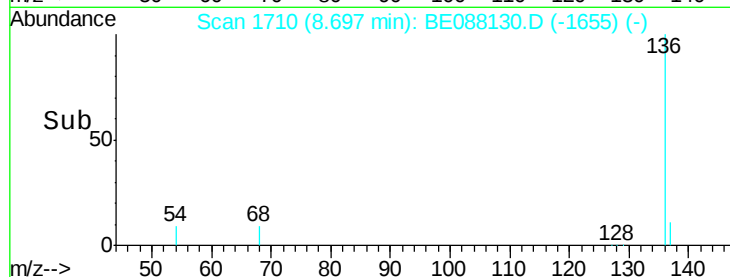
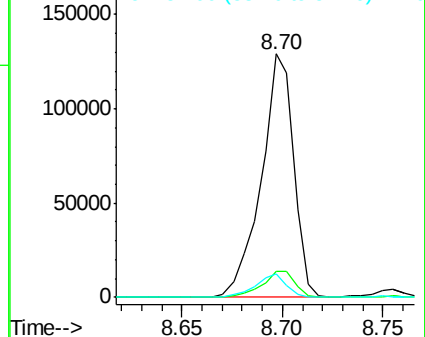
54 9.4 7.7 11.5



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: 6.60 ng

RT: 7.83 min Scan# 1506

Delta R.T. 0.00 min

Lab File: BE088130.D

Acq: 21 Oct 2014 7:59

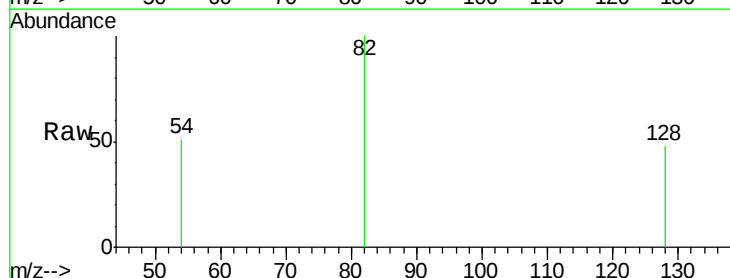
Tgt Ion: 82 Resp: 68627

Ion Ratio Lower Upper

82 100

128 47.6 37.1 55.7

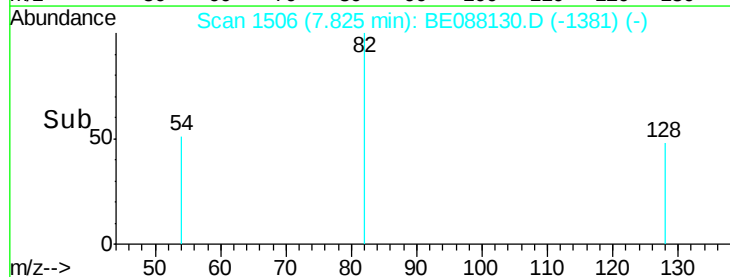
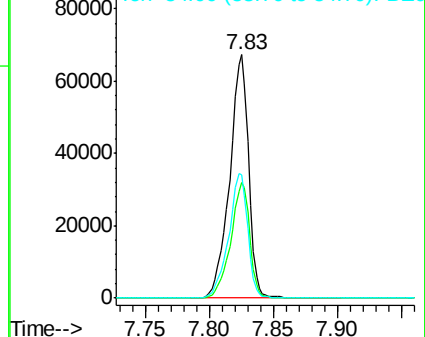
54 50.6 41.1 61.7

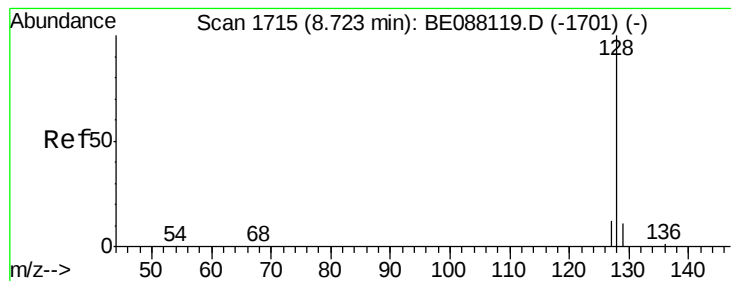


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Naphthalene

Concen: 0.04 ng

RT: 8.72 min Scan# 1715

Delta R.T. 0.00 min

Lab File: BE088130.D

Acq: 21 Oct 2014 7:59

Instrument :

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YS19-EB01-100914-GW

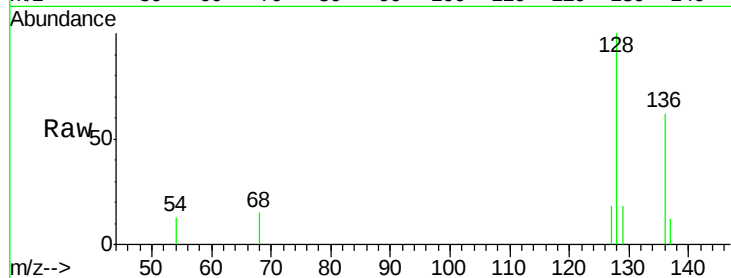
Tgt Ion:128 Resp: 1071

Ion Ratio Lower Upper

128 100

129 18.2 8.9 13.3#

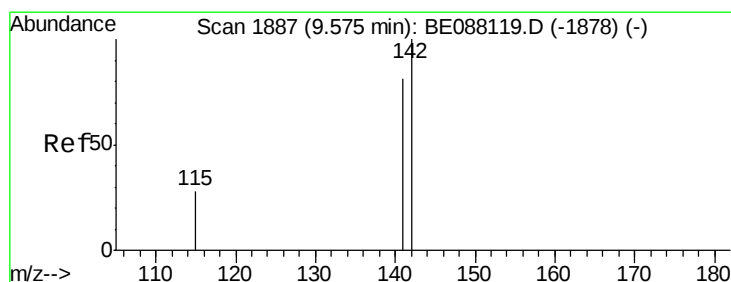
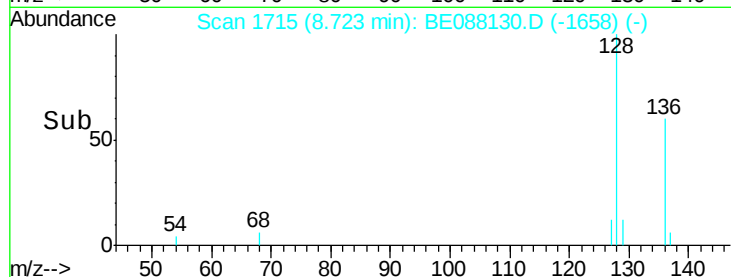
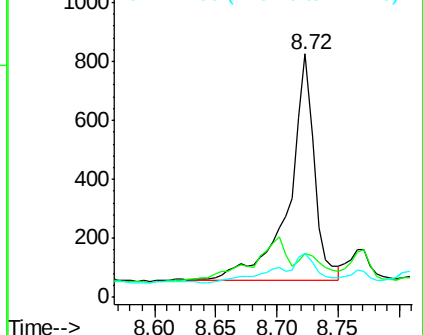
127 17.9 9.7 14.5#



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: 0.07 ng

RT: 9.58 min Scan# 1887

Delta R.T. 0.00 min

Lab File: BE088130.D

Acq: 21 Oct 2014 7:59

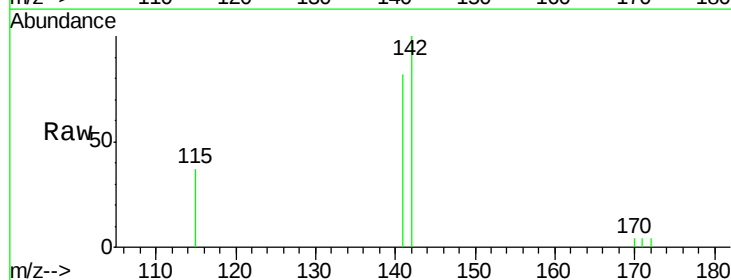
Tgt Ion:142 Resp: 1168

Ion Ratio Lower Upper

142 100

141 82.4 64.6 97.0

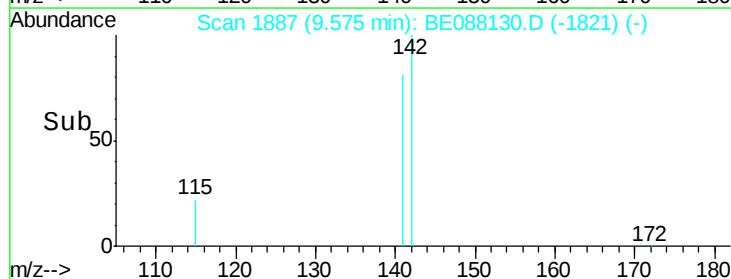
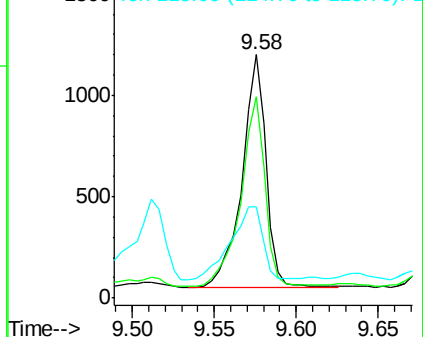
115 37.4 22.6 34.0#

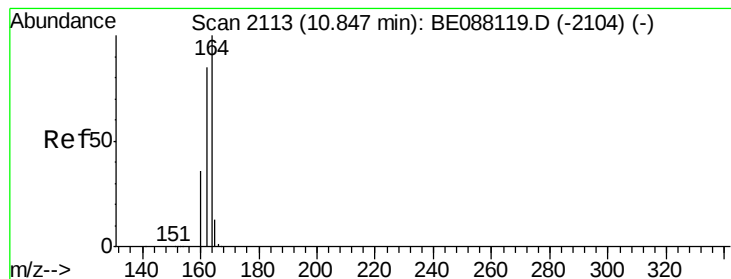


Abundance Ion 142.00 (141.70 to 142.70): E

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: 10.85 min Scan# 2113

Delta R.T. 0.00 min

Lab File: BE088130.D

Acq: 21 Oct 2014 7:59

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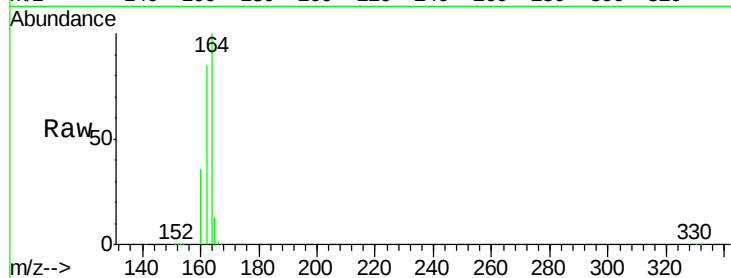
Tgt Ion:164 Resp: 64369

Ion Ratio Lower Upper

164 100

162 85.2 68.3 102.5

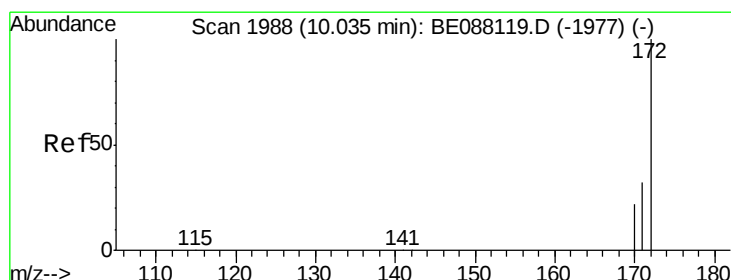
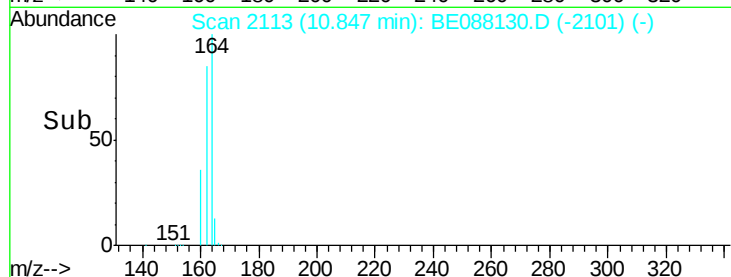
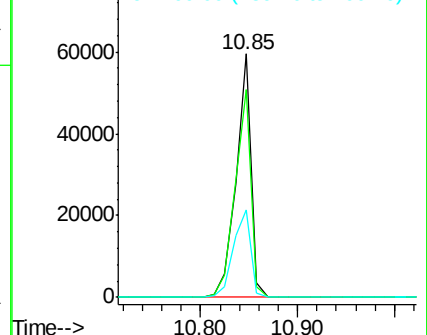
160 36.0 28.7 43.1



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



#8

2-Fluorobiphenyl

Concen: 6.64 ng

RT: 10.04 min Scan# 1988

Delta R.T. 0.00 min

Lab File: BE088130.D

Acq: 21 Oct 2014 7:59

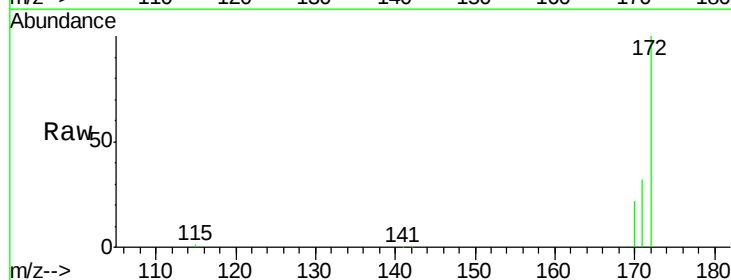
Tgt Ion:172 Resp: 118054

Ion Ratio Lower Upper

172 100

171 32.4 25.4 38.2

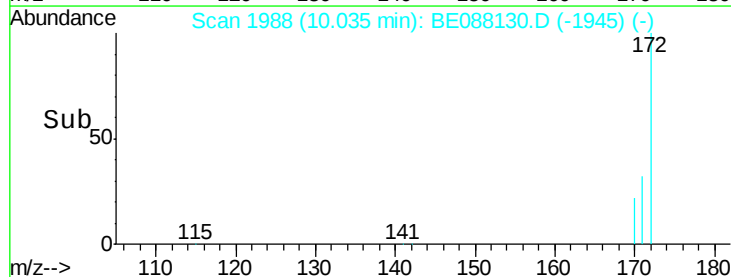
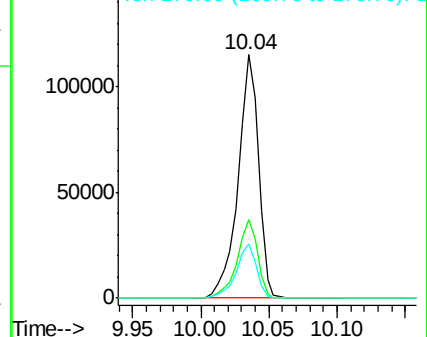
170 22.2 17.4 26.2

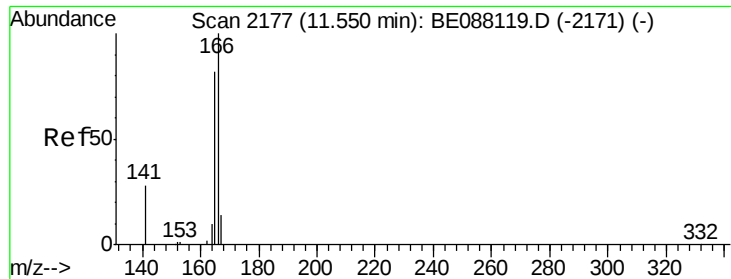


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#11

Fluorene

Concen: 0.03 ng

RT: 11.55 min Scan# 2177

Delta R.T. 0.00 min

Lab File: BE088130.D

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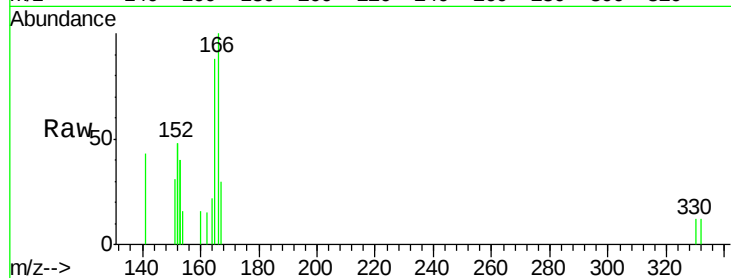
Tgt Ion:166 Resp: 541

Ion Ratio Lower Upper

166 100

165 109.4 71.4 107.2#

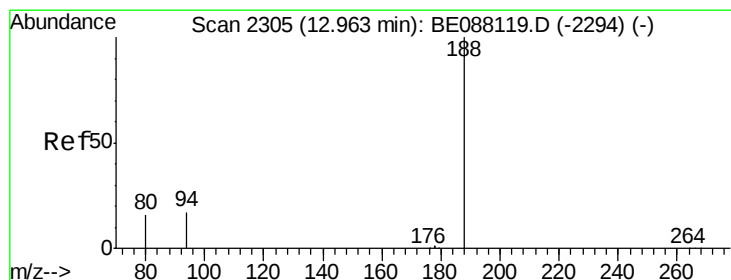
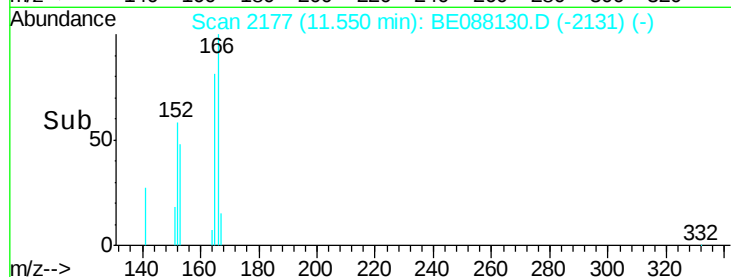
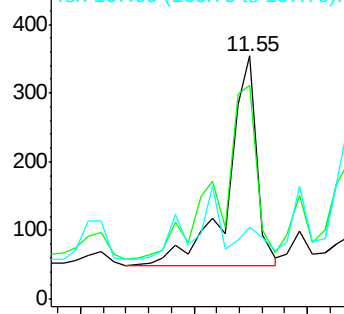
167 7.9 10.6 16.0#



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.96 min Scan# 2305

Delta R.T. 0.00 min

Lab File: BE088130.D

Acq: 21 Oct 2014 7:59

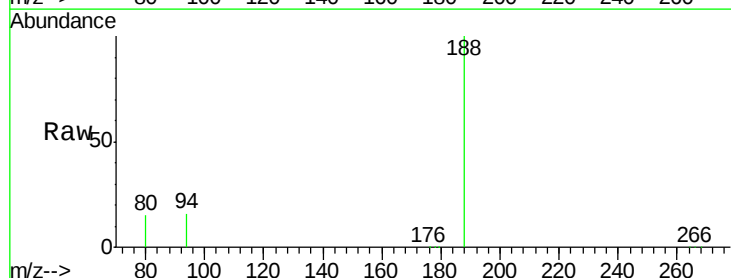
Tgt Ion:188 Resp: 116174

Ion Ratio Lower Upper

188 100

94 15.9 13.9 20.9

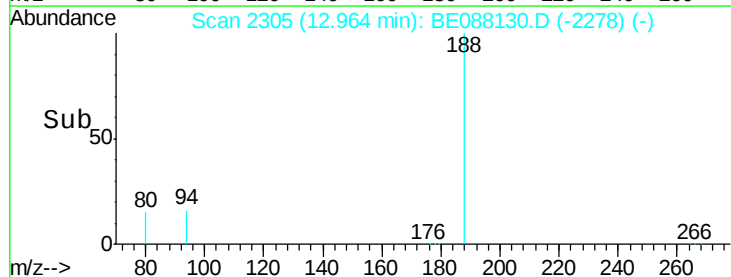
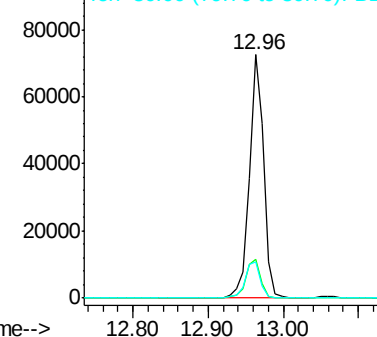
80 14.8 12.9 19.3

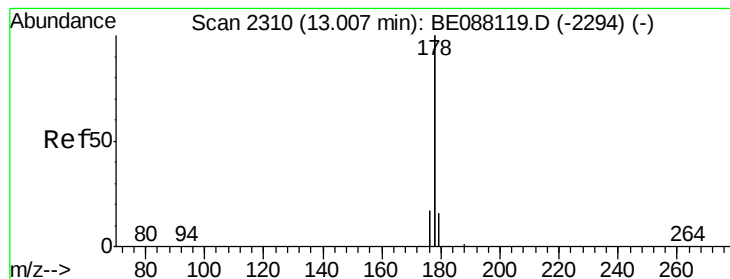


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: Below Cal

RT: 13.00 min Scan# 2309

Delta R.T. -0.01 min

Lab File: BE088130.D

Acq: 21 Oct 2014 7:59

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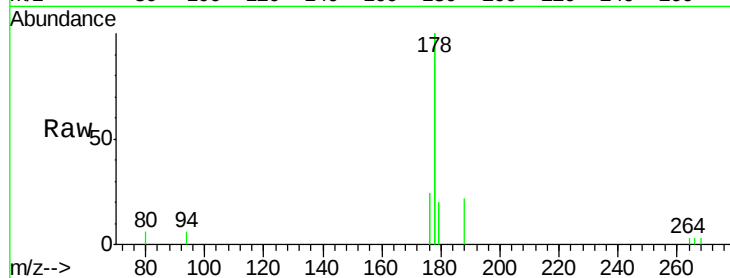
Tgt Ion:178 Resp: 5985

Ion Ratio Lower Upper

178 100

176 25.8 12.5 18.7#

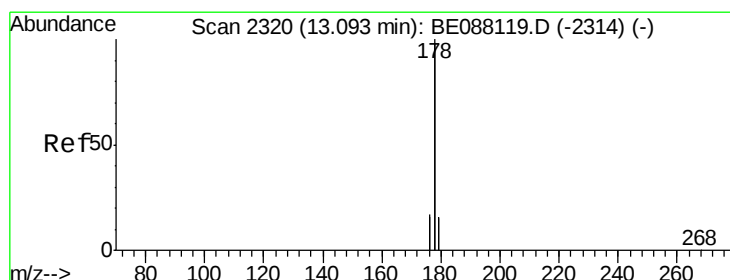
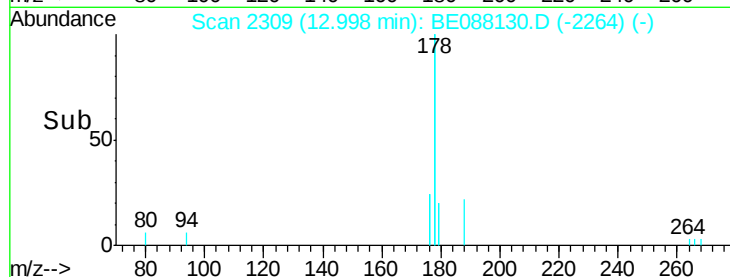
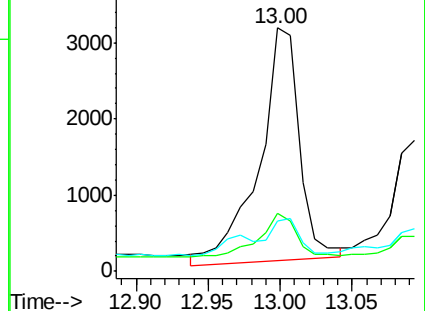
179 28.7 13.5 20.3#



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: 0.03 ng

RT: 13.09 min Scan# 2320

Delta R.T. 0.00 min

Lab File: BE088130.D

Acq: 21 Oct 2014 7:59

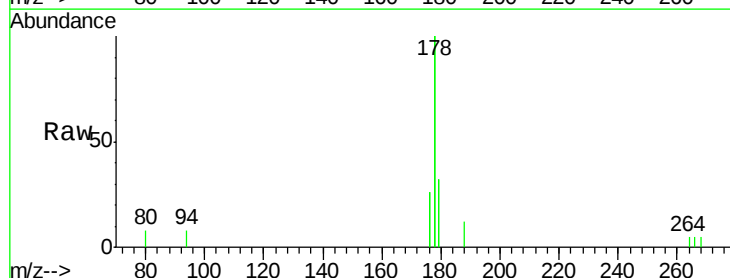
Tgt Ion:178 Resp: 2392

Ion Ratio Lower Upper

178 100

176 23.8 14.6 21.8#

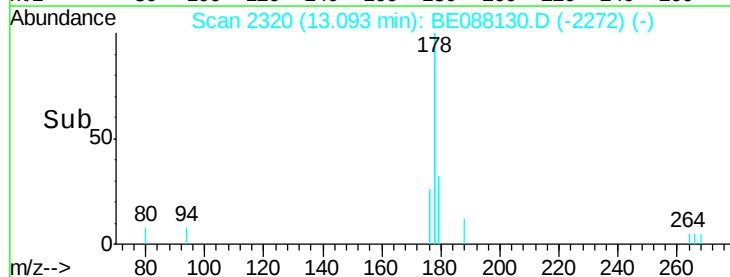
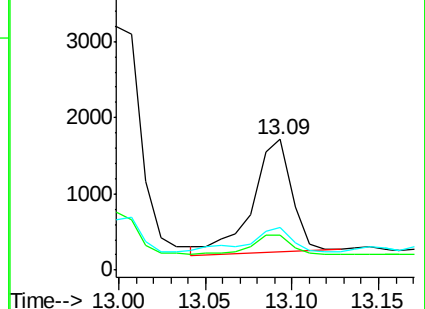
179 35.7 12.5 18.7#

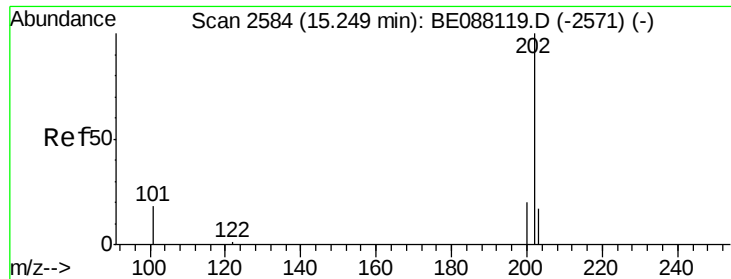


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

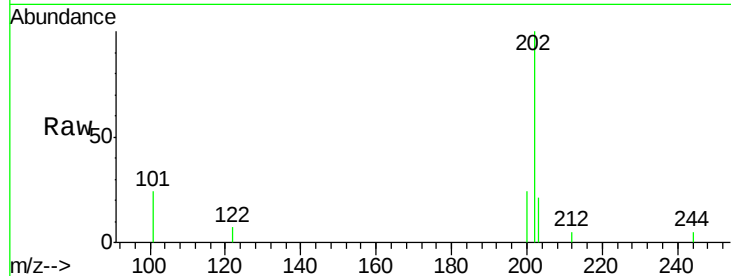




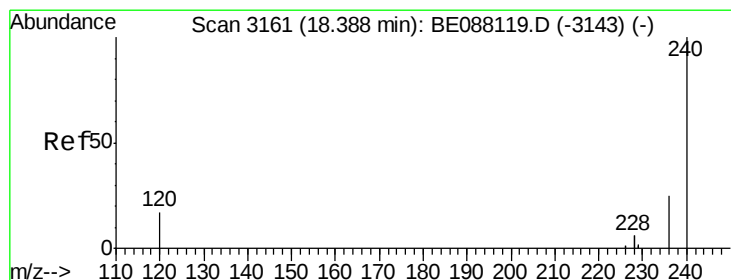
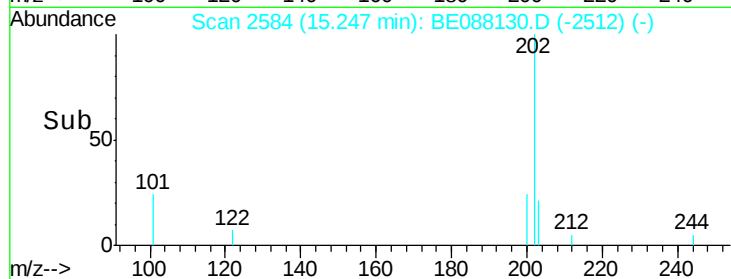
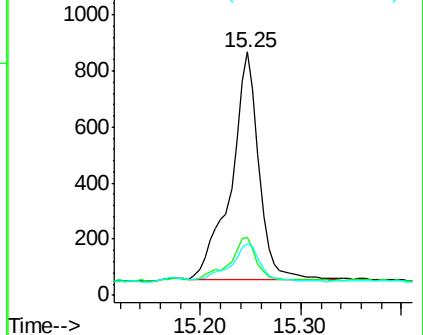
#15
 Fluoranthene
 Concen: 0.07 ng
 RT: 15.25 min Scan# 2584
 Delta R.T. -0.00 min
 Lab File: BE088130.D
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Tgt Ion:	202	Resp:	1553
Ion	Ratio	Lower	Upper
202	100		
101	18.6	14.8	22.2
203	16.9	13.5	20.3

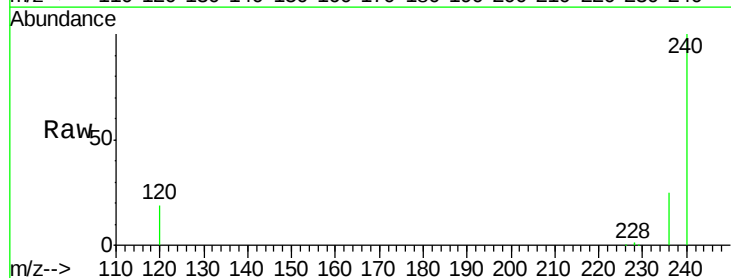


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

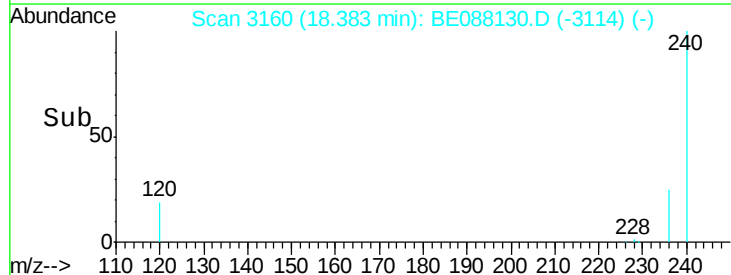
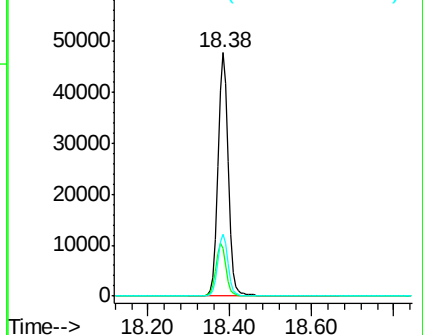


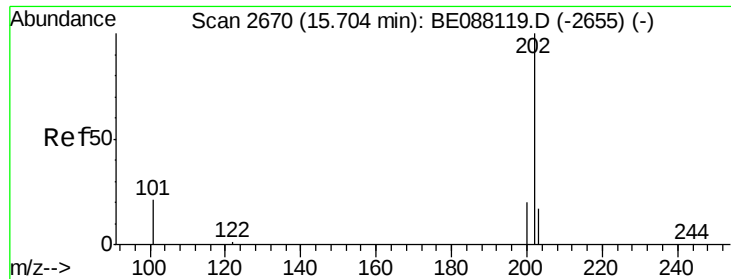
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.38 min Scan# 3160
 Delta R.T. -0.01 min
 Lab File: BE088130.D
 Acq: 21 Oct 2014 7:59

Tgt Ion:	240	Resp:	84585
Ion	Ratio	Lower	Upper
240	100		
120	19.4	13.9	20.9
236	25.2	19.9	29.9



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

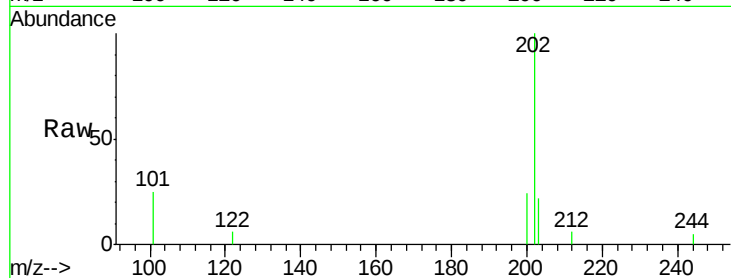




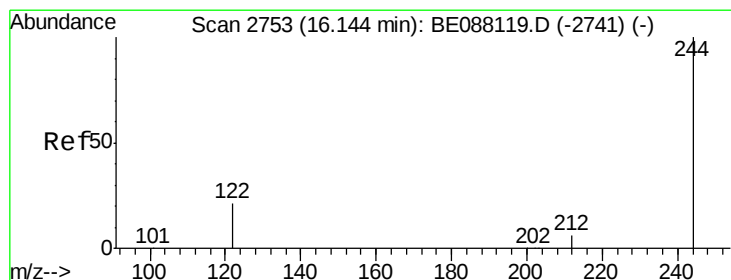
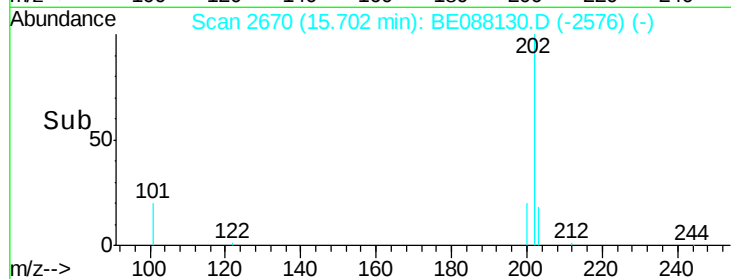
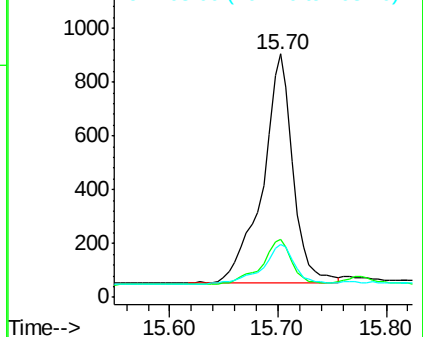
#17
 Pyrene
 Concen: 0.07 ng
 RT: 15.70 min Scan# 2670
 Delta R.T. -0.00 min
 Lab File: BE088130.D
 Acq: 21 Oct 2014 7:59

Instrument :
 BNA_E
 ClientSampleId :
 YS19-EB01-100914-GW

Tgt Ion	Ratio	Lower	Upper
202	100		
200	19.6	16.1	24.1
203	18.8	13.9	20.9

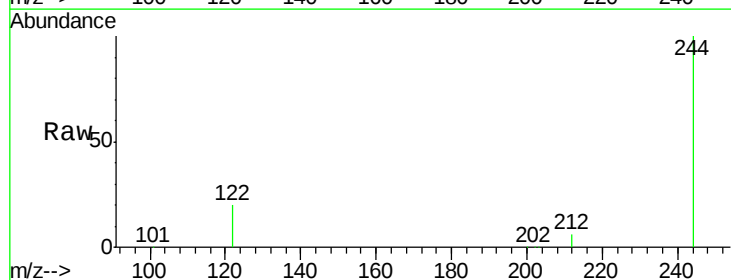


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 200.00 (199.70 to 200.70): E
 Ion 203.00 (202.70 to 203.70): E

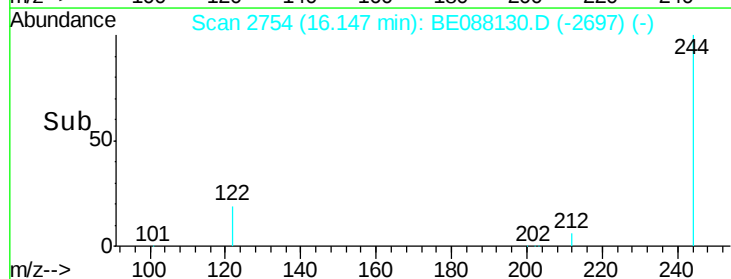
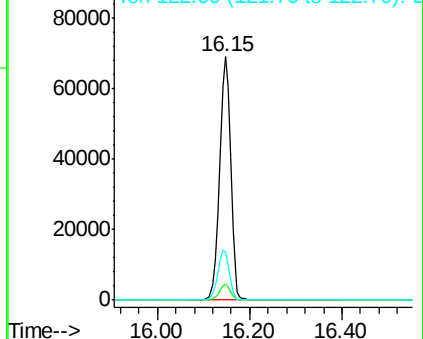


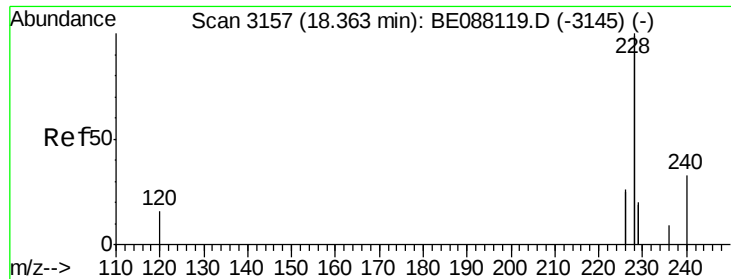
#18
 Terphenyl-d14
 Concen: 8.18 ng
 RT: 16.15 min Scan# 2754
 Delta R.T. 0.00 min
 Lab File: BE088130.D
 Acq: 21 Oct 2014 7:59

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.4	8.0
122	19.5	17.5	26.3



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: 0.07 ng

RT: 18.36 min Scan# 3157

Delta R.T. 0.00 min

Lab File: BE088130.D

Acq: 21 Oct 2014 7:59

Instrument :

BNA_E

ClientSampleId :

YS19-EB01-100914-GW

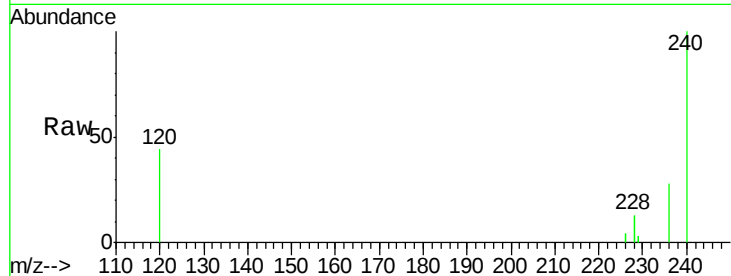
Tgt Ion:228 Resp: 5633

Ion Ratio Lower Upper

228 100

226 29.3 20.8 31.2

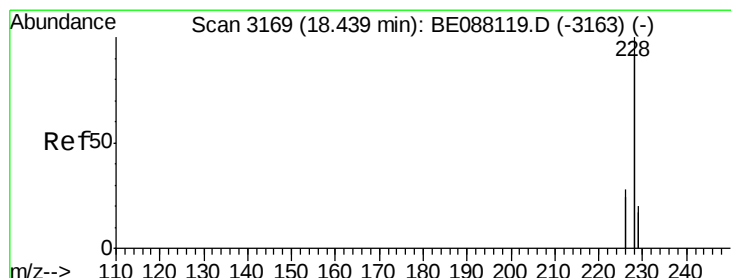
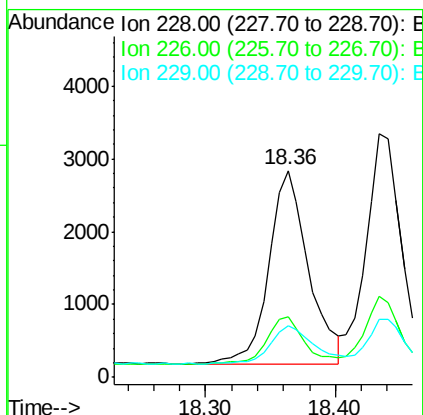
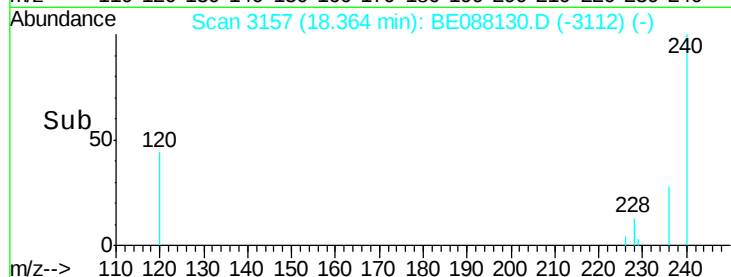
229 25.2 15.6 23.4#



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: 0.08 ng

RT: 18.43 min Scan# 3168

Delta R.T. -0.01 min

Lab File: BE088130.D

Acq: 21 Oct 2014 7:59

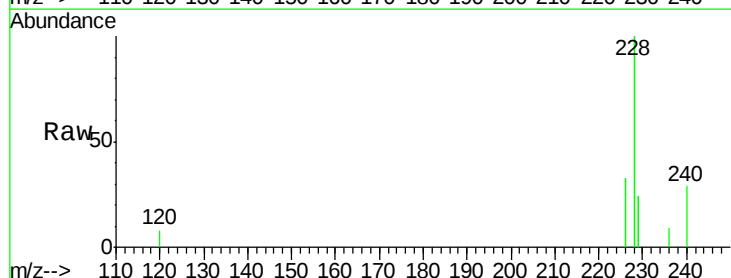
Tgt Ion:228 Resp: 6157

Ion Ratio Lower Upper

228 100

226 33.3 22.7 34.1

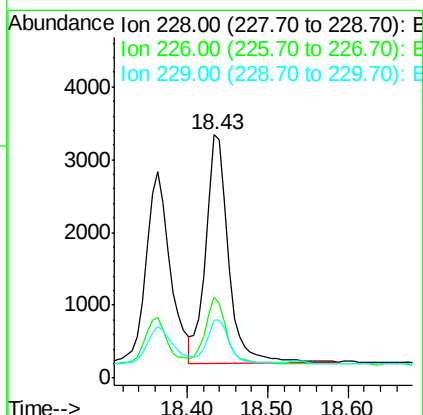
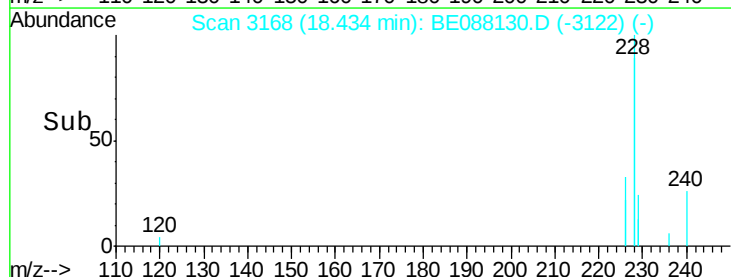
229 24.0 15.8 23.6#

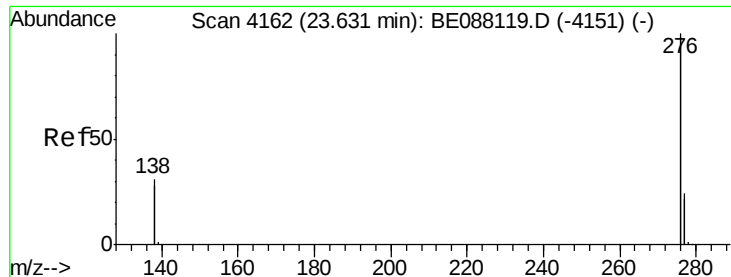


Abundance Ion 228.00 (227.70 to 228.70): E

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: 0.04 ng

RT: 23.63 min Scan# 4162

Delta R.T. 0.00 min

Lab File: BE088130.D

Acq: 21 Oct 2014 7:59

Instrument :

BNA_E

ClientSampleId :

YS19-EB01-100914-GW

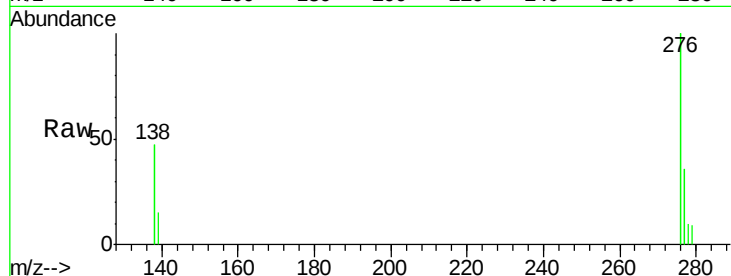
Tgt Ion: 276 Resp: 2975

Ion Ratio Lower Upper

276 100

138 34.4 18.5 27.7#

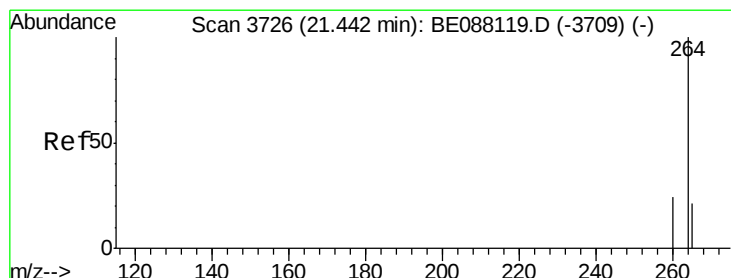
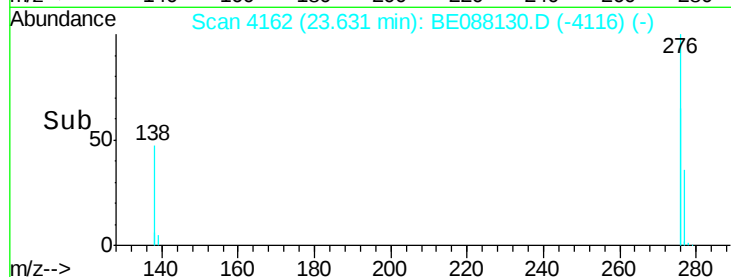
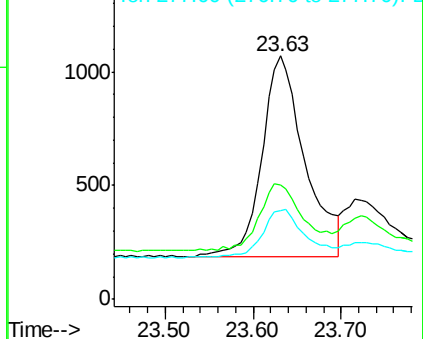
277 23.1 14.6 21.8#



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: 21.44 min Scan# 3726

Delta R.T. 0.00 min

Lab File: BE088130.D

Acq: 21 Oct 2014 7:59

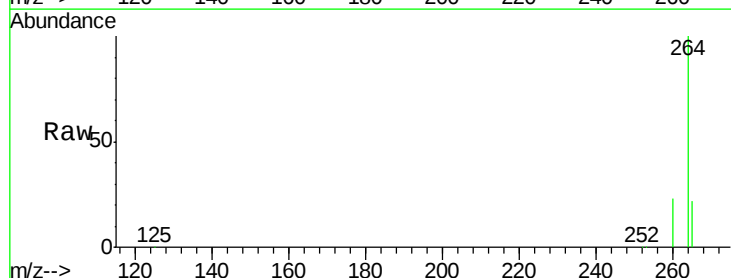
Tgt Ion: 264 Resp: 83275

Ion Ratio Lower Upper

264 100

260 23.5 19.0 28.4

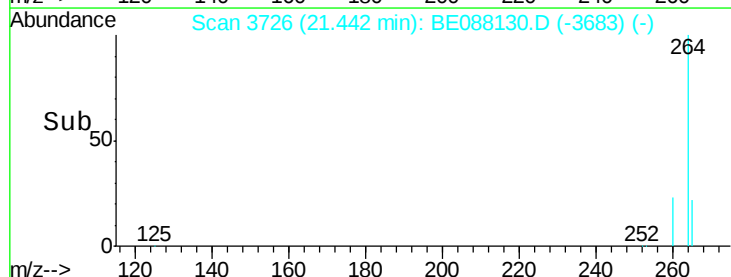
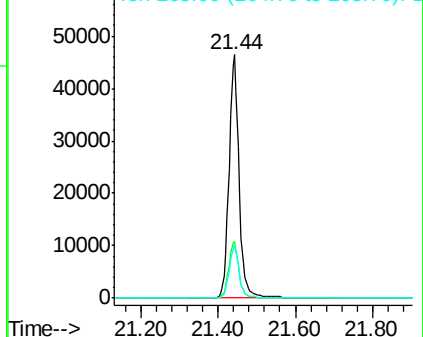
265 21.7 17.2 25.8

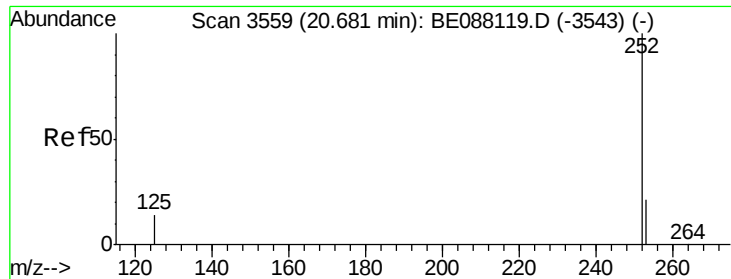


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 0.05 ng

RT: 20.68 min Scan# 3559

Delta R.T. 0.00 min

Lab File: BE088130.D

Acq: 21 Oct 2014 7:59

Instrument :

BNA_E

ClientSampleId :

YS19-EB01-100914-GW

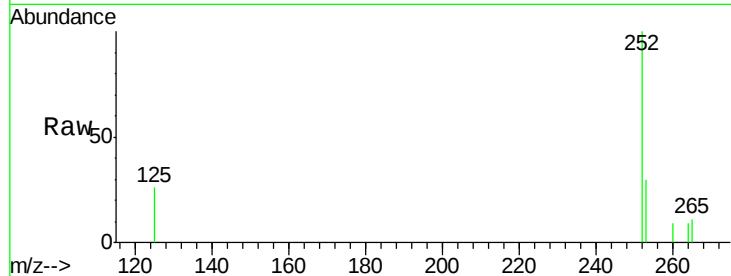
Tgt Ion: 252 Resp: 1022

Ion Ratio Lower Upper

252 100

253 29.7 17.4 26.0#

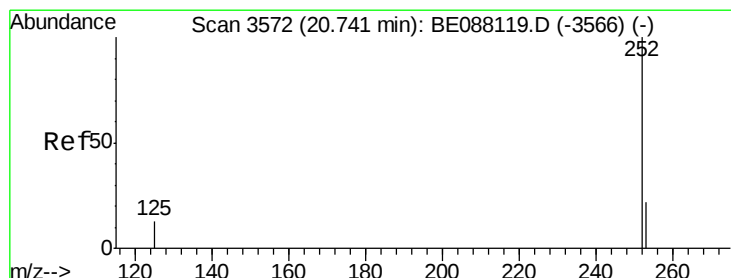
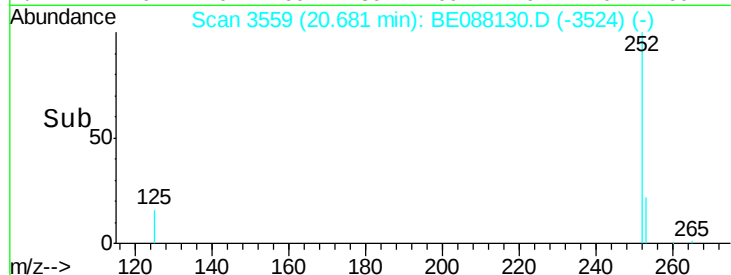
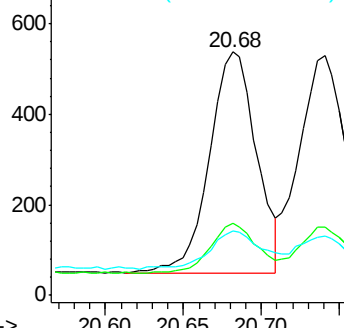
125 26.2 11.8 17.8#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#24

Benzo(k)fluoranthene

Concen: 0.05 ng

RT: 20.74 min Scan# 3572

Delta R.T. 0.00 min

Lab File: BE088130.D

Acq: 21 Oct 2014 7:59

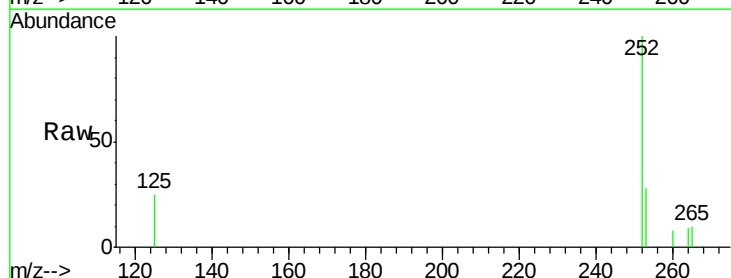
Tgt Ion: 252 Resp: 1102

Ion Ratio Lower Upper

252 100

253 28.4 17.6 26.4#

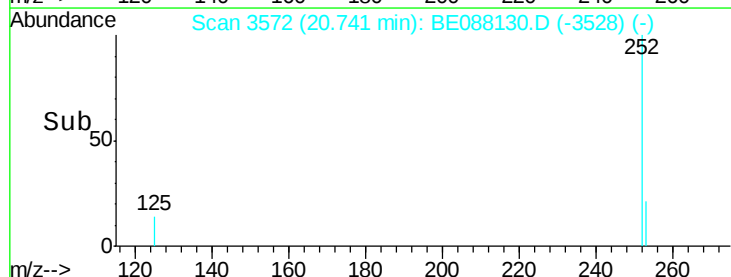
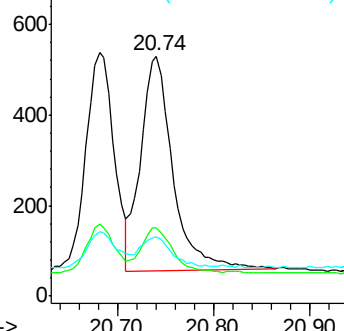
125 24.7 11.5 17.3#

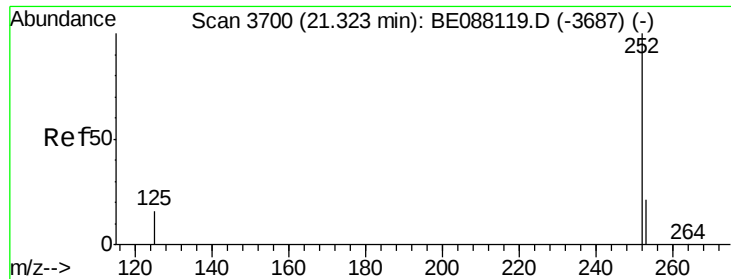


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 0.04 ng

RT: 21.32 min Scan# 3700

Delta R.T. 0.00 min

Lab File: BE088130.D

Acq: 21 Oct 2014 7:59

Instrument :

BNA_E

ClientSampleId :

YS19-EB01-100914-GW

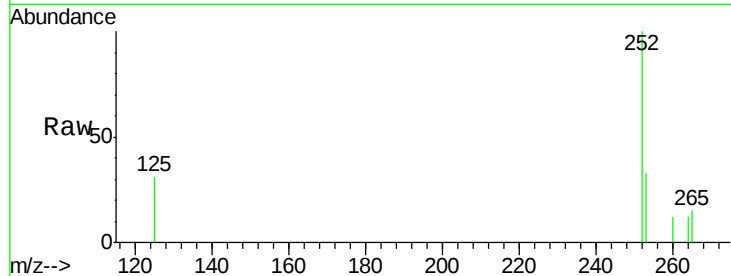
Tgt Ion: 252 Resp: 715

Ion Ratio Lower Upper

252 100

253 32.7 17.5 26.3#

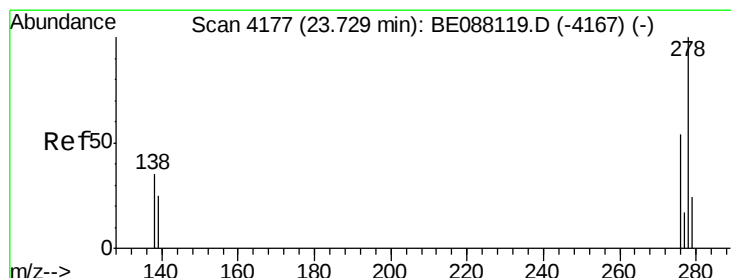
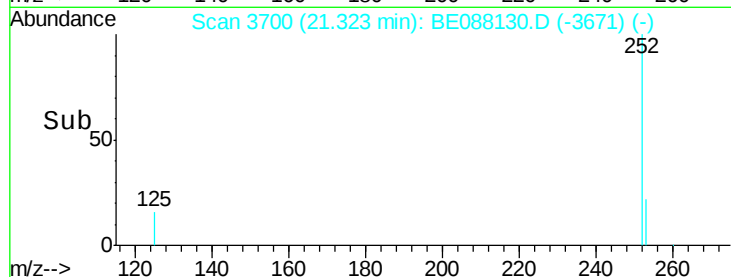
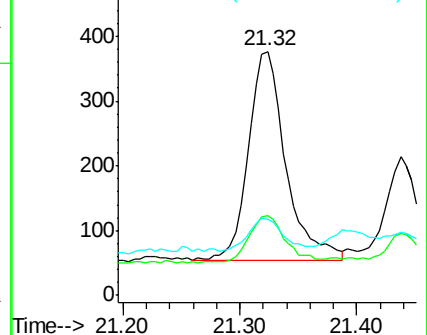
125 31.4 13.0 19.6#



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

Dibenzo(a,h)anthracene

Concen: 0.04 ng

RT: 23.73 min Scan# 4177

Delta R.T. 0.00 min

Lab File: BE088130.D

Acq: 21 Oct 2014 7:59

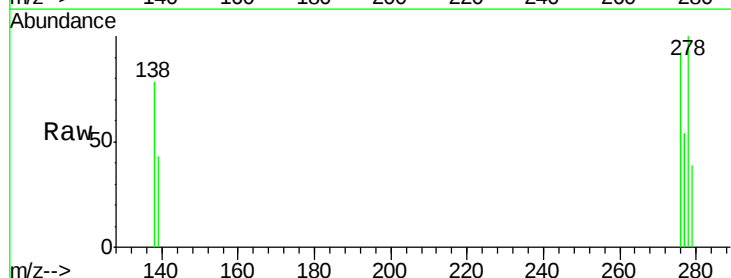
Tgt Ion: 278 Resp: 773

Ion Ratio Lower Upper

278 100

139 42.7 20.9 31.3#

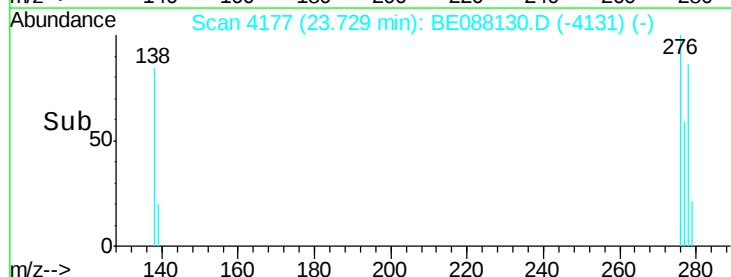
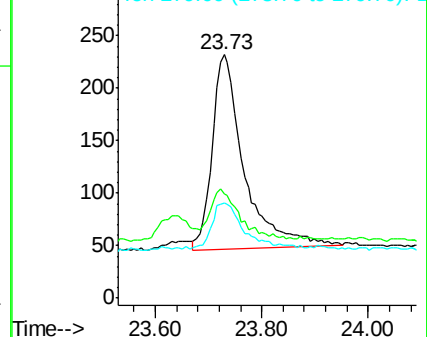
279 39.2 19.8 29.8#

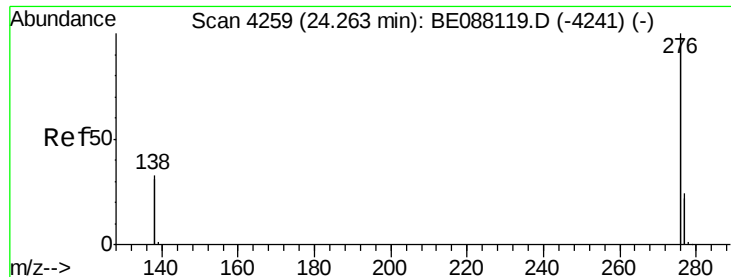


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.04 ng

RT: 24.26 min Scan# 4259

Delta R.T. 0.00 min

Lab File: BE088130.D

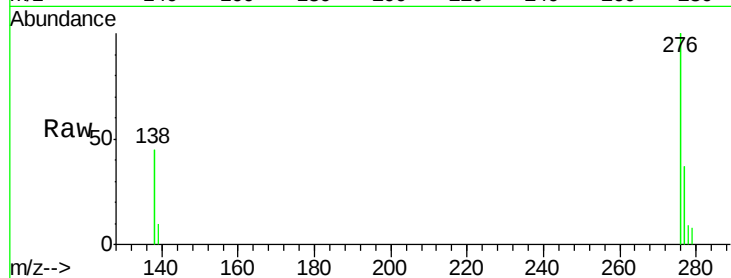
Acq: 21 Oct 2014 7:59

Instrument :

BNA_E

ClientSampleId :

YS19-EB01-100914-GW



Tgt Ion: 276 Resp: 3464

Ion Ratio Lower Upper

276 100

277 36.8 19.2 28.8#

138 45.3 26.6 40.0#

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

