

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102014\
 Data File : BE088129.D
 Acq On : 21 Oct 2014 7:26
 Operator : TP/JJ
 Sample : F4244-12RE
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-GW13-1014

Quant Time: Oct 21 08:13:28 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	39683	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	146273	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	64701	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	115572	5.00	ng	0.00
16) Chrysene-d12	18.38	240	81852	5.00	ng	0.00
22) Perylene-d12	21.44	264	80744	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.82	82	64044	6.07	ng	0.00
8) 2-Fluorobiphenyl	10.03	172	112321	6.28	ng	0.00
18) Terphenyl-d14	16.15	244	107489	8.16	ng	0.00

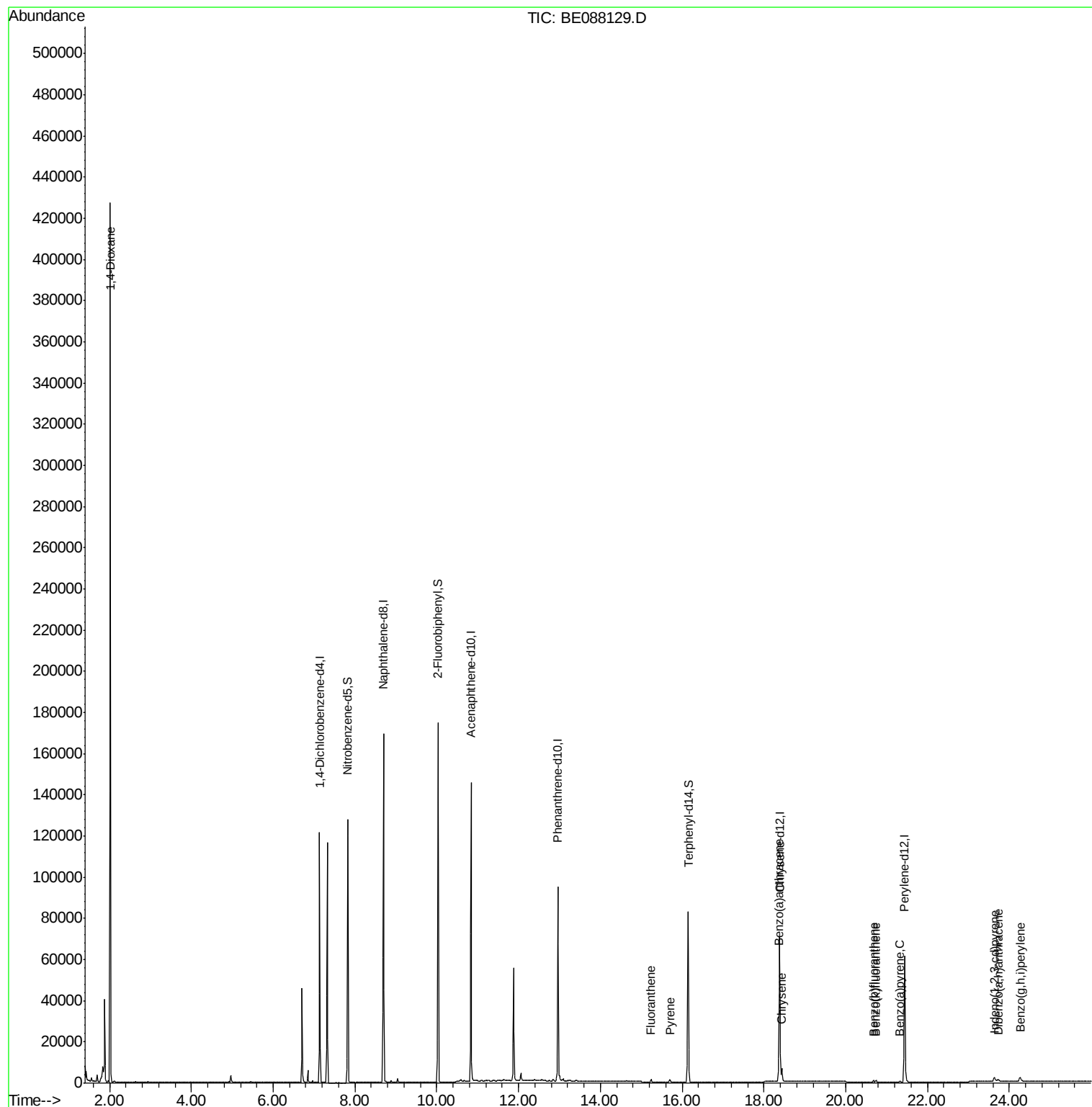
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.02	88	13963	2.45	ng	# 1
13) Phenanthrene	13.01	178	4203	Below Cal		# 64
15) Fluoranthene	15.25	202	1621	0.07	ng	99
17) Pyrene	15.70	202	1853	0.08	ng	98
19) Benzo(a)anthracene	18.36	228	6883	0.09	ng	# 93
20) Chrysene	18.44	228	7384	0.10	ng	94
21) Indeno(1,2,3-cd)pyrene	23.63	276	4210	0.05	ng	# 88
23) Benzo(b)fluoranthene	20.68	252	1445	0.08	ng	# 86
24) Benzo(k)fluoranthene	20.74	252	1559	0.08	ng	# 87
25) Benzo(a)pyrene	21.32	252	1062	0.06	ng	# 82
26) Dibenzo(a,h)anthracene	23.73	278	1036	0.06	ng	# 75
27) Benzo(g,h,i)perylene	24.26	276	4740	0.06	ng	# 84

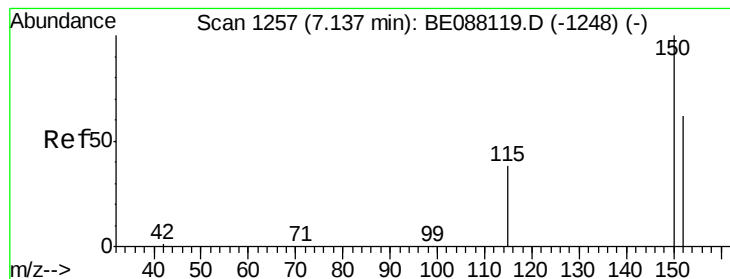
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1257

Delta R.T. -0.00 min

Lab File: BE088129.D

Acq: 21 Oct 2014 7:26

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BNA_E

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YS19-GW13-1014

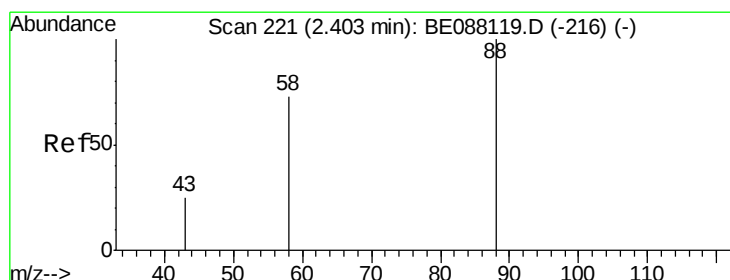
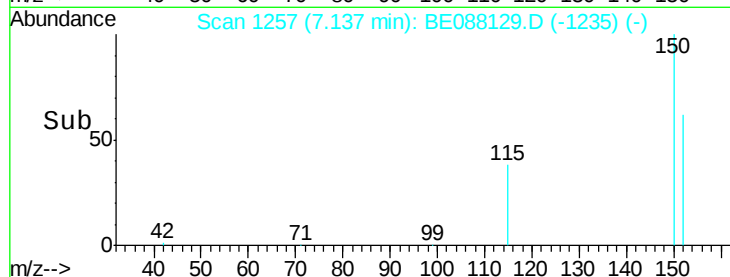
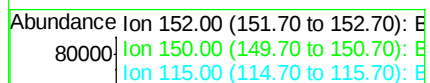
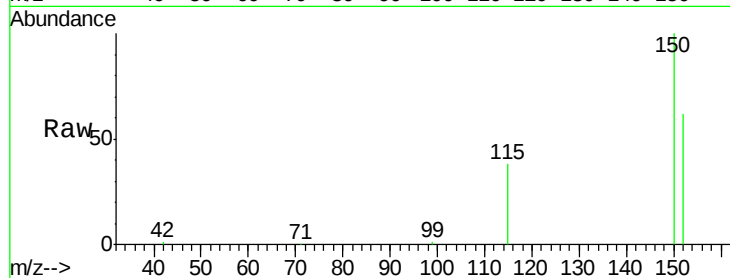
Tgt Ion:152 Resp: 39683

Ion Ratio Lower Upper

152 100

150 161.3 129.2 193.8

115 61.9 49.3 73.9



#2

1,4-Dioxane

Concen: 2.45 ng

RT: 2.02 min Scan# 137

Delta R.T. -0.38 min

Lab File: BE088129.D

Acq: 21 Oct 2014 7:26

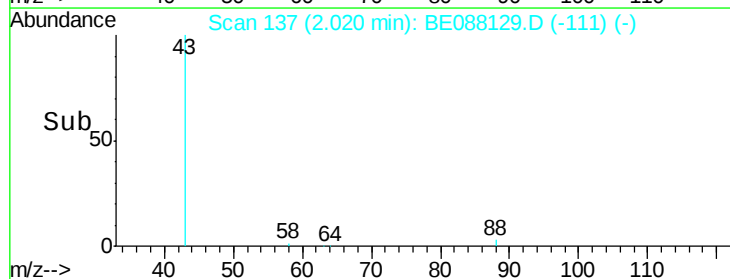
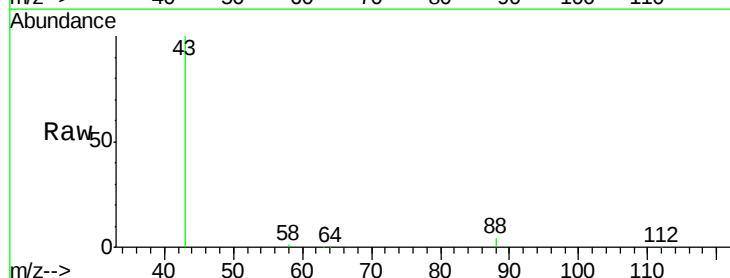
Tgt Ion: 88 Resp: 13963

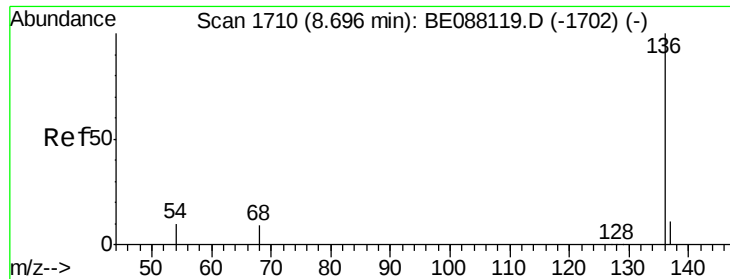
Ion Ratio Lower Upper

88 100

58 27.4 59.5 89.3#

43 2931.9 21.2 31.8#

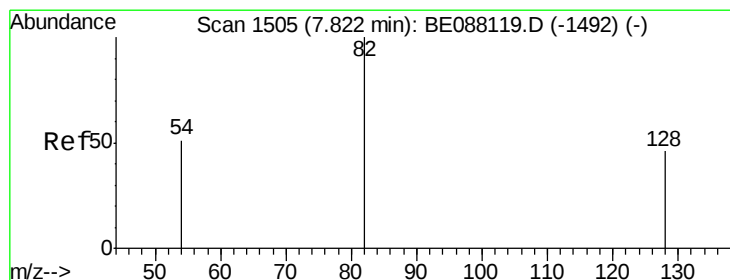
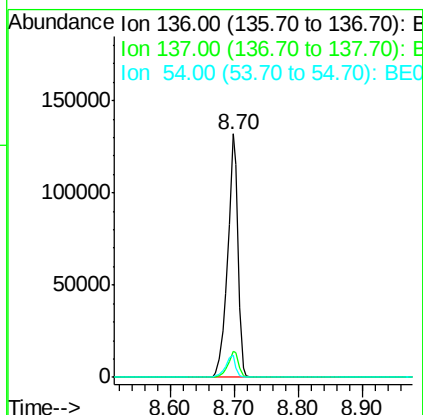
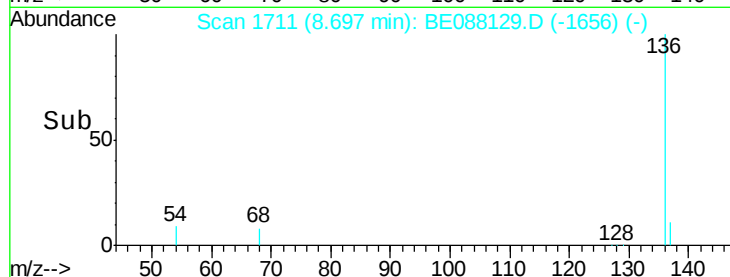
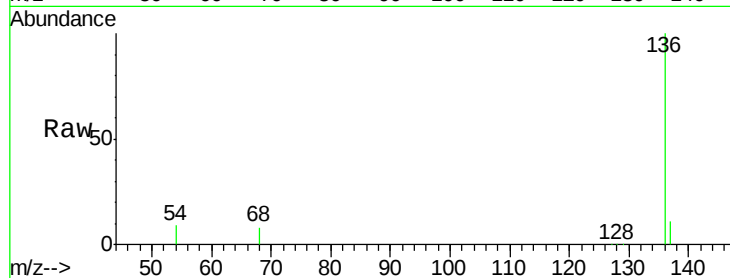




#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.70 min Scan# 1711
Delta R.T. 0.00 min
Lab File: BE088129.D
Acq: 21 Oct 2014 7:26

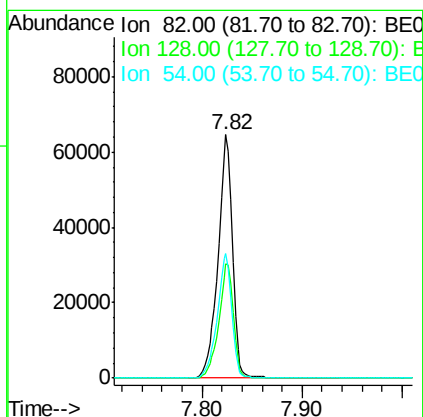
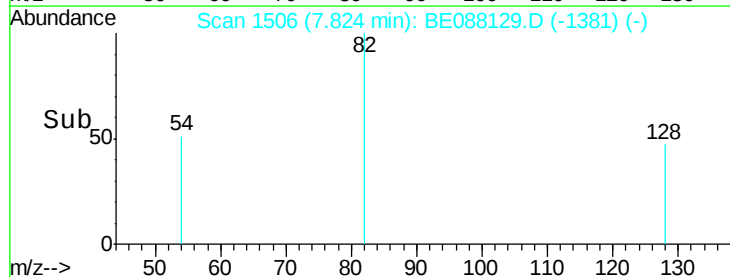
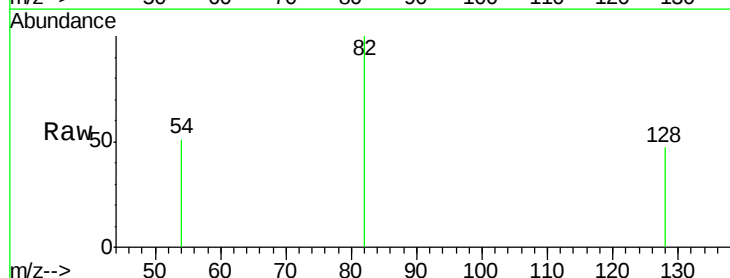
Instrument :
BNA_E
ClientSampleId :
YS19-GW13-1014

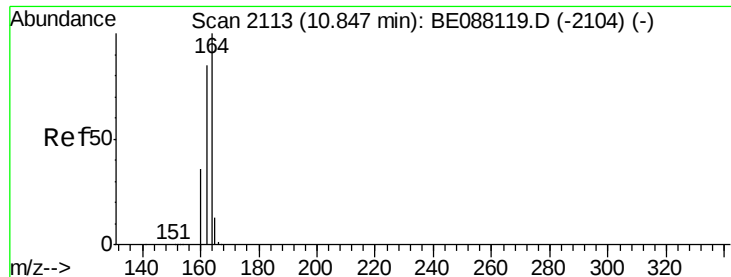
Tgt Ion: 136 Resp: 146273
Ion Ratio Lower Upper
136 100
137 10.8 8.6 12.8
54 9.1 7.7 11.5



#4
Nitrobenzene-d5
Concen: 6.07 ng
RT: 7.82 min Scan# 1506
Delta R.T. 0.00 min
Lab File: BE088129.D
Acq: 21 Oct 2014 7:26

Tgt Ion: 82 Resp: 64044
Ion Ratio Lower Upper
82 100
128 47.1 37.1 55.7
54 51.0 41.1 61.7





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.85 min Scan# 2114

Delta R.T. -0.00 min

Lab File: BE088129.D

Acq: 21 Oct 2014 7:26

Instrument :

BNA_E

ClientSampleId :

YS19-GW13-1014

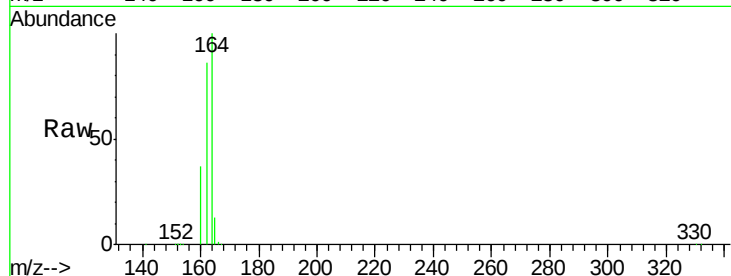
Tgt Ion:164 Resp: 64701

Ion Ratio Lower Upper

164 100

162 86.2 68.3 102.5

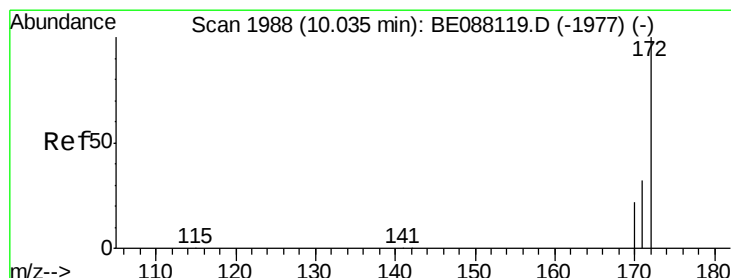
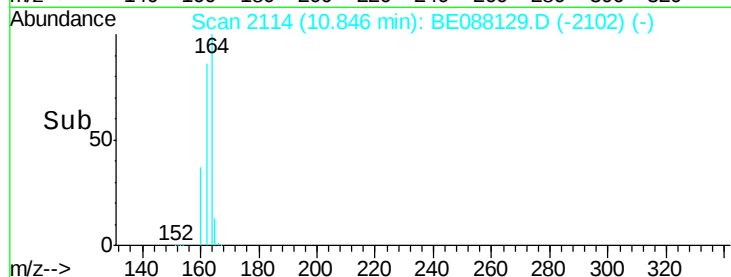
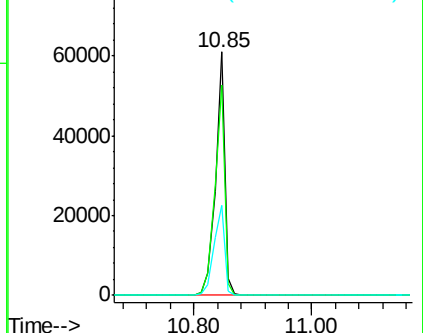
160 36.8 28.7 43.1



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: 6.28 ng

RT: 10.03 min Scan# 1989

Delta R.T. -0.00 min

Lab File: BE088129.D

Acq: 21 Oct 2014 7:26

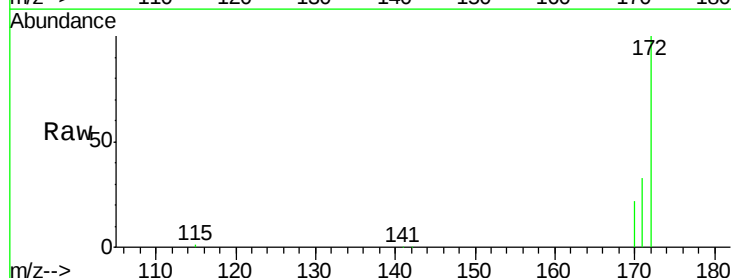
Tgt Ion:172 Resp: 112321

Ion Ratio Lower Upper

172 100

171 32.6 25.4 38.2

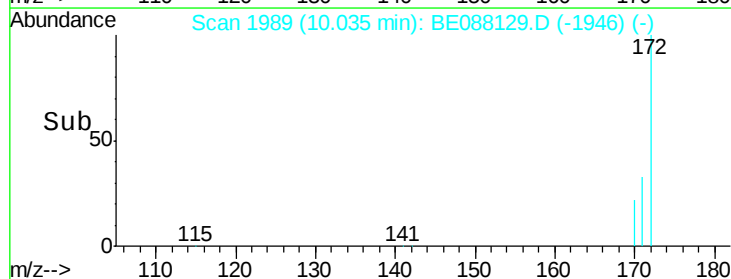
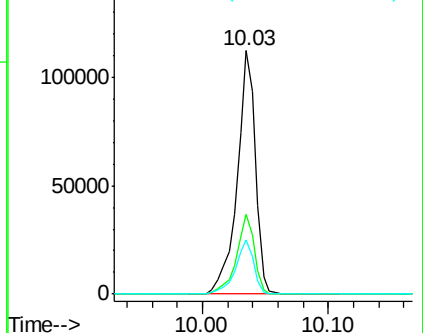
170 22.3 17.4 26.2

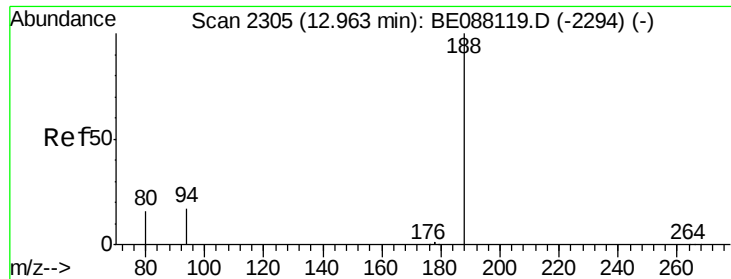


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

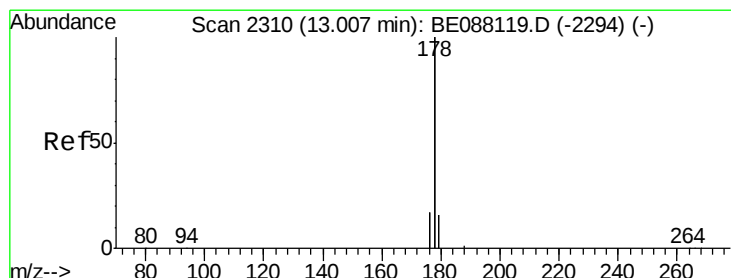
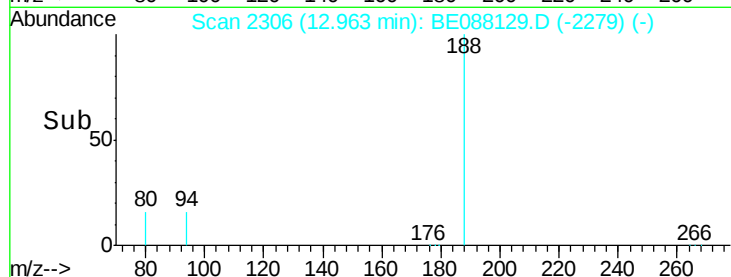
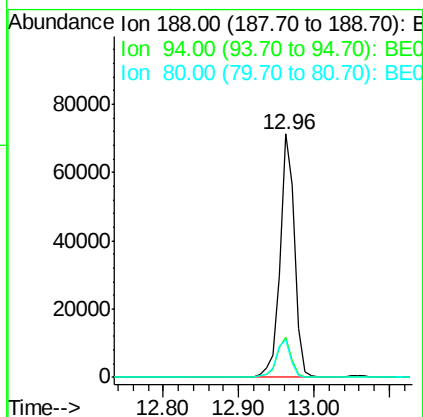
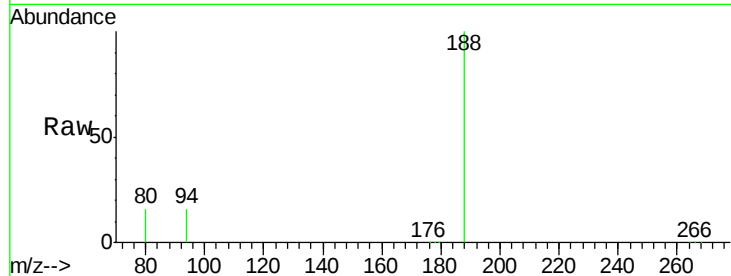




#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.96 min Scan# 2306
Delta R.T. -0.00 min
Lab File: BE088129.D
Acq: 21 Oct 2014 7:26

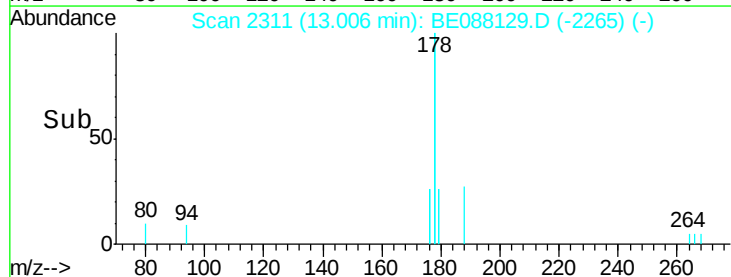
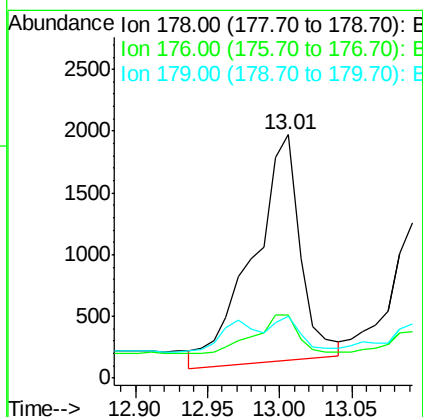
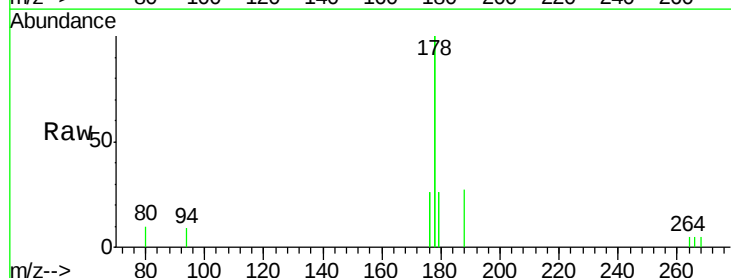
Instrument :
BNA_E
ClientSampleId :
YS19-GW13-1014

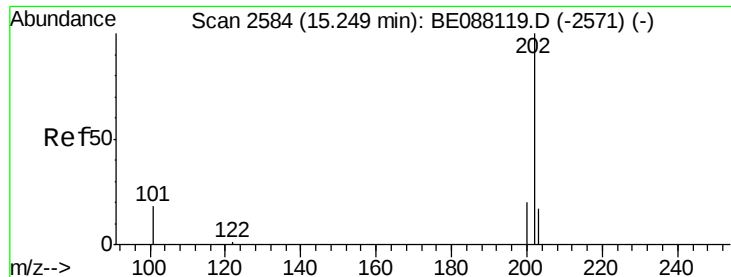
Tgt Ion:188 Resp: 115572
Ion Ratio Lower Upper
188 100
94 16.4 13.9 20.9
80 15.5 12.9 19.3



#13
Phenanthrene
Concen: Below Cal
RT: 13.01 min Scan# 2311
Delta R.T. -0.00 min
Lab File: BE088129.D
Acq: 21 Oct 2014 7:26

Tgt Ion:178 Resp: 4203
Ion Ratio Lower Upper
178 100
176 29.2 12.5 18.7#
179 0.0 13.5 20.3#





#15

Fluoranthene

Concen: 0.07 ng

RT: 15.25 min Scan# 2585

Delta R.T. -0.00 min

Lab File: BE088129.D

Acq: 21 Oct 2014 7:26

Instrument :

BNA_E

ClientSampleId :

YS19-GW13-1014

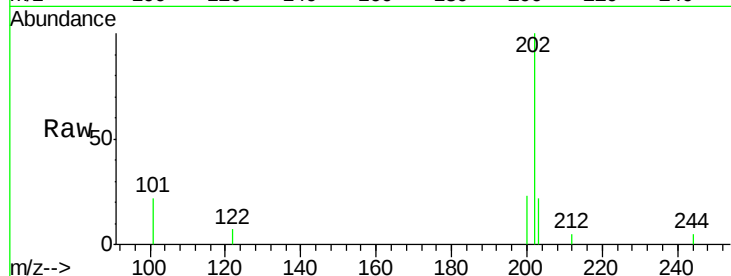
Tgt Ion:202 Resp: 1621

Ion Ratio Lower Upper

202 100

101 17.6 14.8 22.2

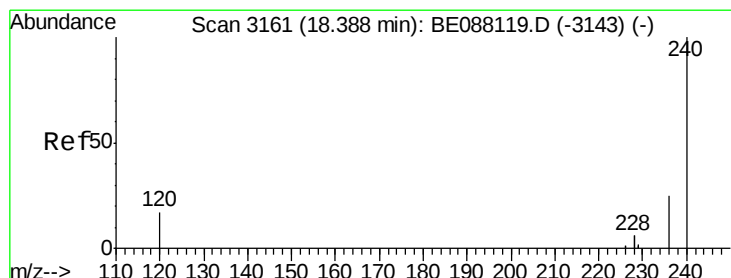
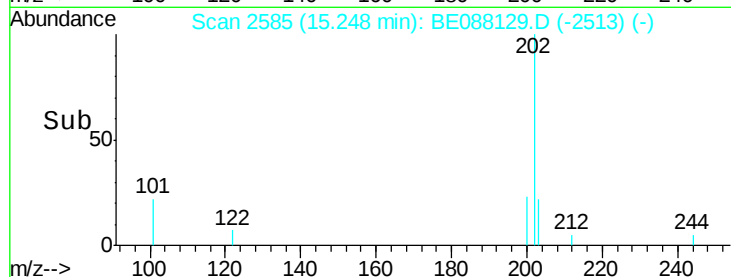
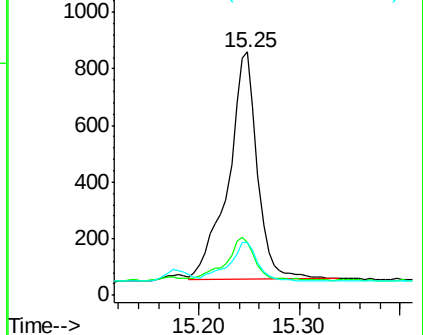
203 17.0 13.5 20.3



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# 3161

Delta R.T. -0.00 min

Lab File: BE088129.D

Acq: 21 Oct 2014 7:26

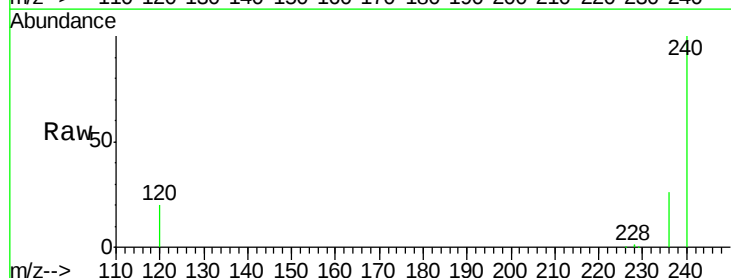
Tgt Ion:240 Resp: 81852

Ion Ratio Lower Upper

240 100

120 19.7 13.9 20.9

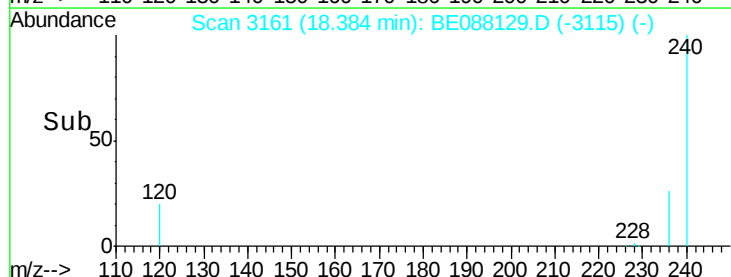
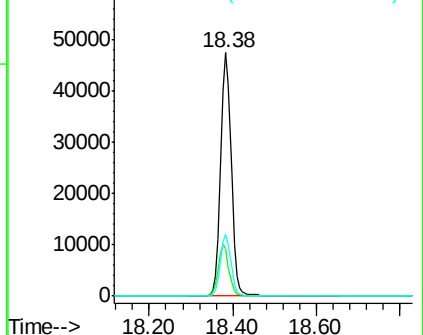
236 25.6 19.9 29.9

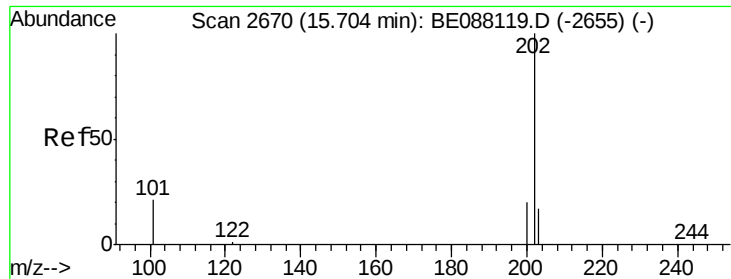


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#17

Pyrene

Concen: 0.08 ng

RT: 15.70 min Scan# 2671

Delta R.T. -0.00 min

Lab File: BE088129.D

Acq: 21 Oct 2014 7:26

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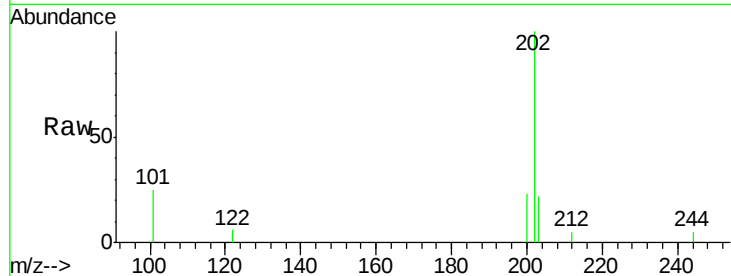
Tgt Ion: 202 Resp: 1853

Ion Ratio Lower Upper

202 100

200 19.3 16.1 24.1

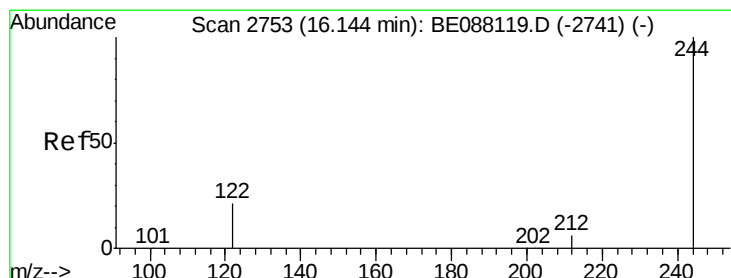
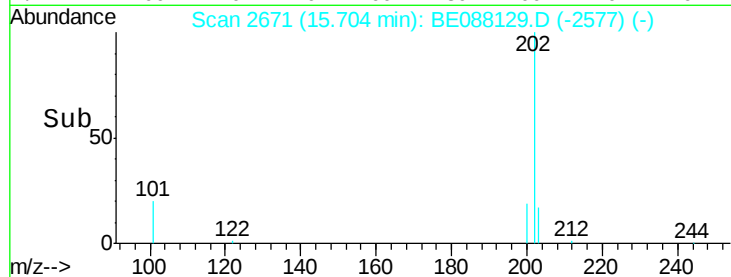
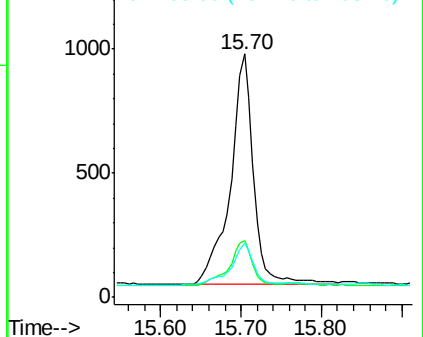
203 18.1 13.9 20.9



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: 8.16 ng

RT: 16.15 min Scan# 2755

Delta R.T. 0.00 min

Lab File: BE088129.D

Acq: 21 Oct 2014 7:26

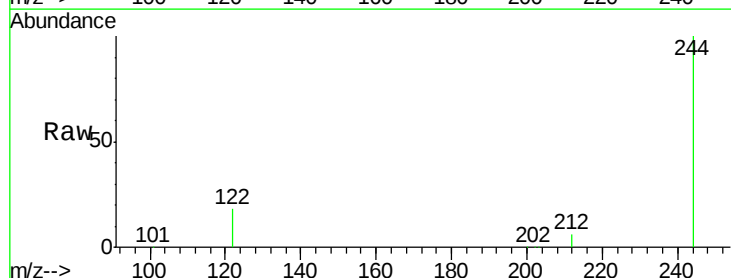
Tgt Ion: 244 Resp: 107489

Ion Ratio Lower Upper

244 100

212 6.3 5.4 8.0

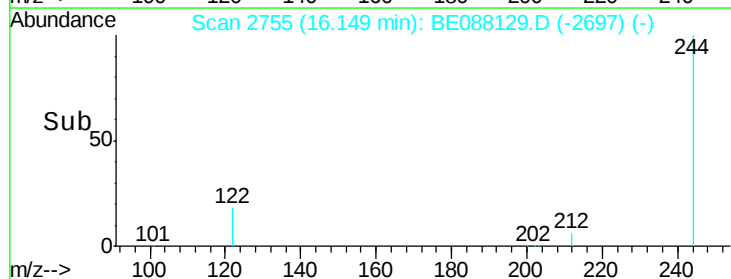
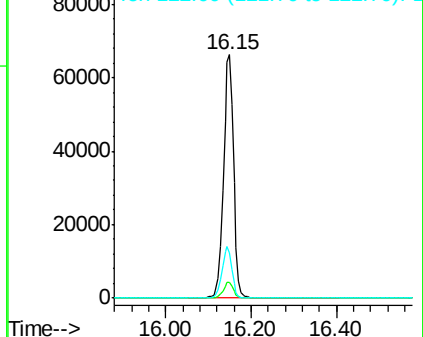
122 18.3 17.5 26.3

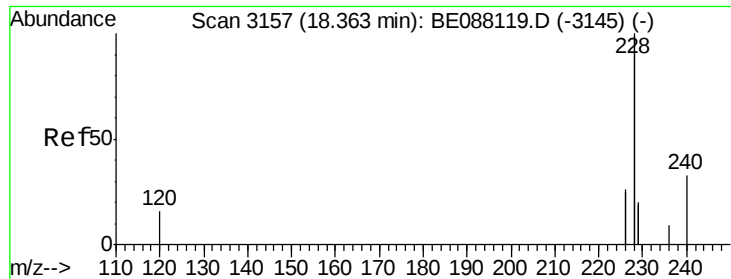


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 0.09 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088129.D

Acq: 21 Oct 2014 7:26

Instrument :

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ClientSampleId :

YS19-GW13-1014

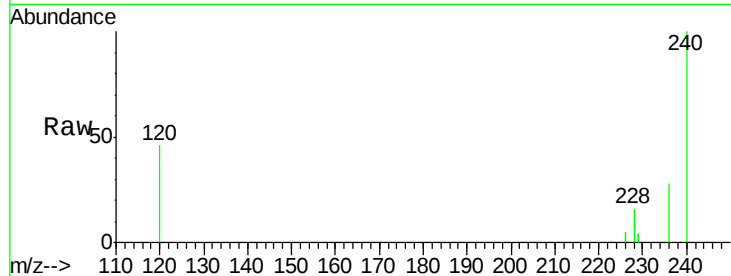
Tgt Ion:228 Resp: 6883

Ion Ratio Lower Upper

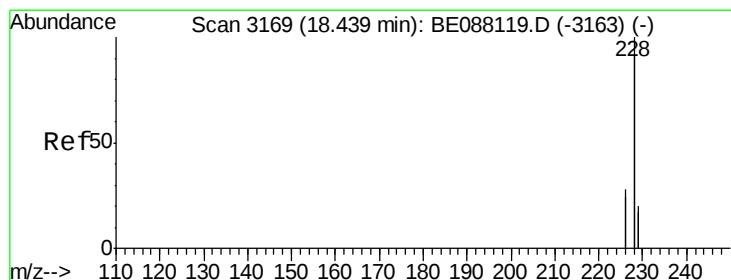
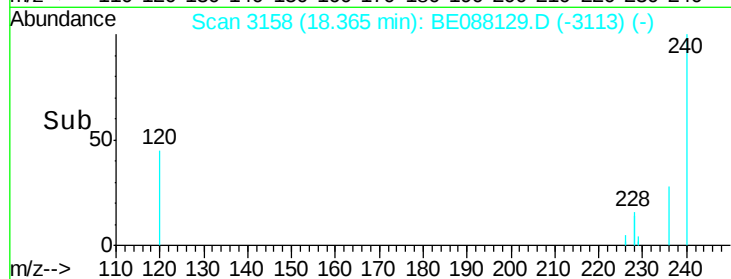
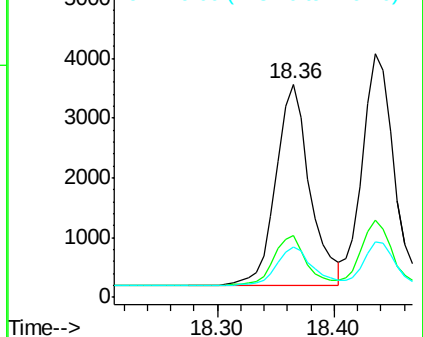
228 100

226 28.8 20.8 31.2

229 23.7 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: 0.10 ng

RT: 18.44 min Scan# 3169

Delta R.T. -0.00 min

Lab File: BE088129.D

Acq: 21 Oct 2014 7:26

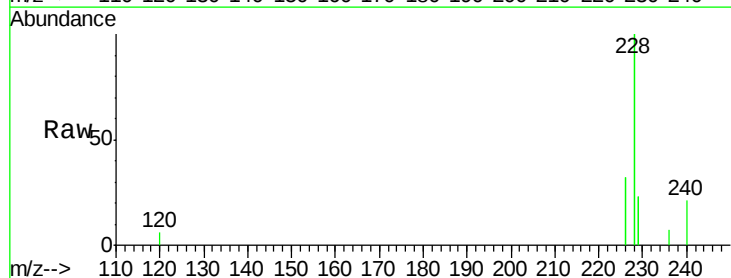
Tgt Ion:228 Resp: 7384

Ion Ratio Lower Upper

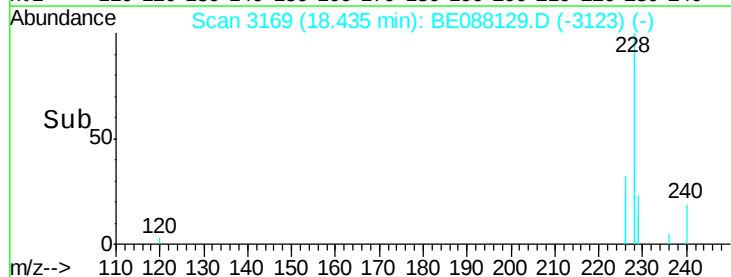
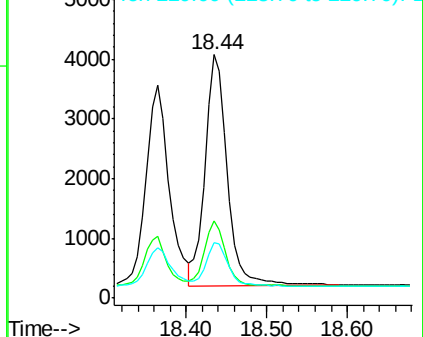
228 100

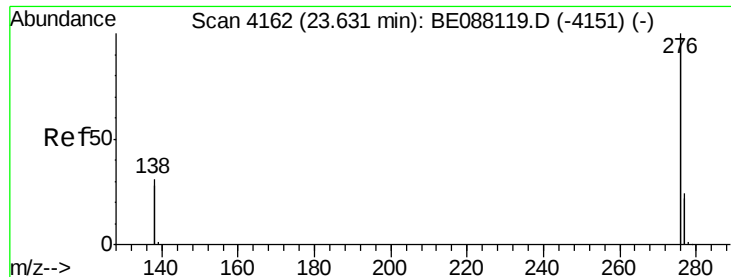
226 31.7 22.7 34.1

229 22.8 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: 0.05 ng

RT: 23.63 min Scan# 4163

Delta R.T. -0.00 min

Lab File: BE088129.D

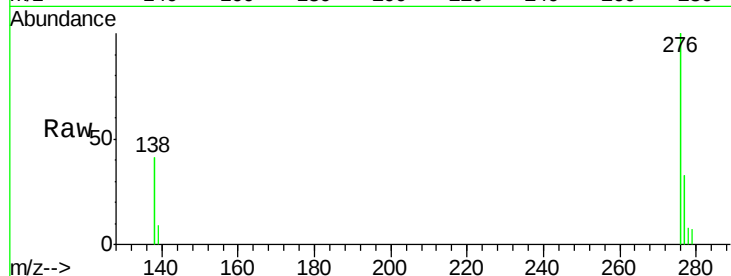
Acq: 21 Oct 2014 7:26

Instrument :

BNA_E

ClientSampleId :

YS19-GW13-1014



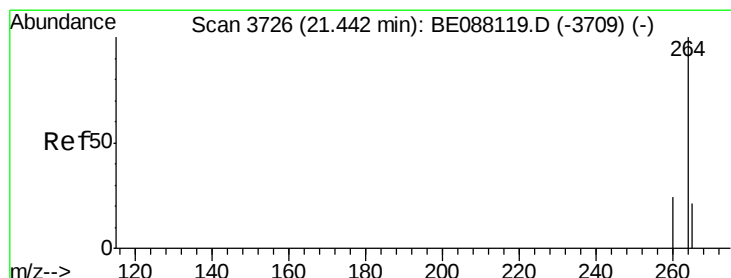
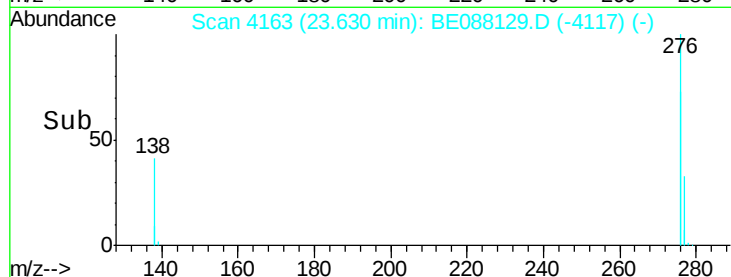
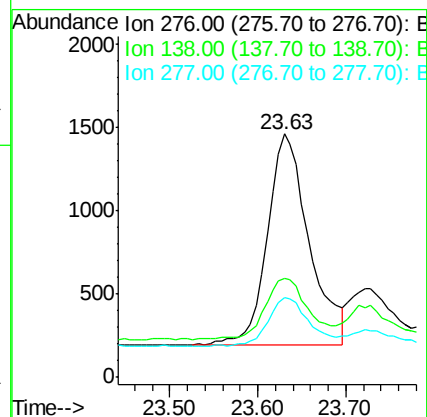
Tgt Ion:276 Resp: 4210

Ion Ratio Lower Upper

276 100

138 30.3 18.5 27.7#

277 22.0 14.6 21.8#



#22

Perylene-d12

Concen: 5.00 ng

RT: 21.44 min Scan# 3727

Delta R.T. -0.00 min

Lab File: BE088129.D

Acq: 21 Oct 2014 7:26

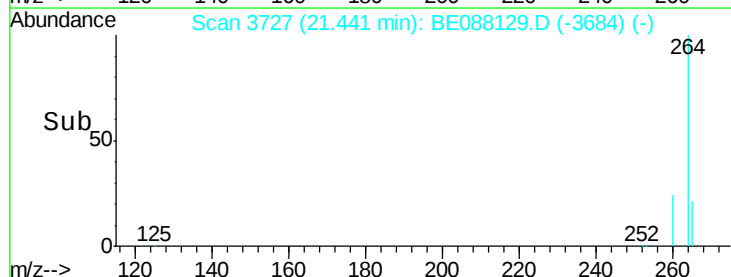
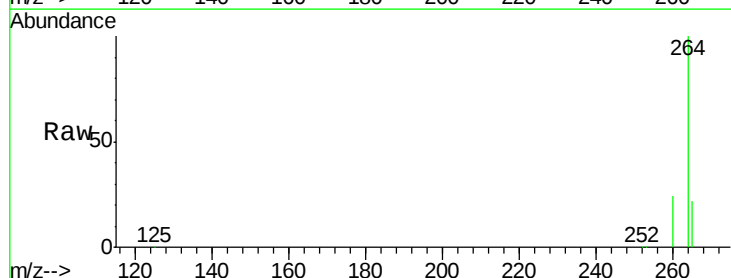
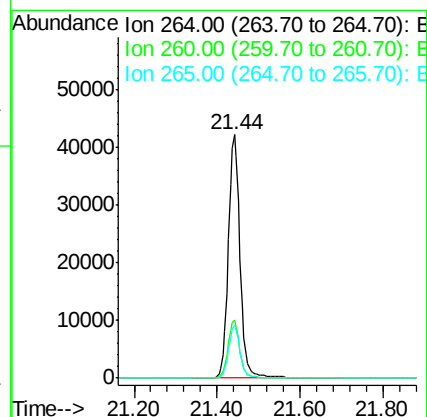
Tgt Ion:264 Resp: 80744

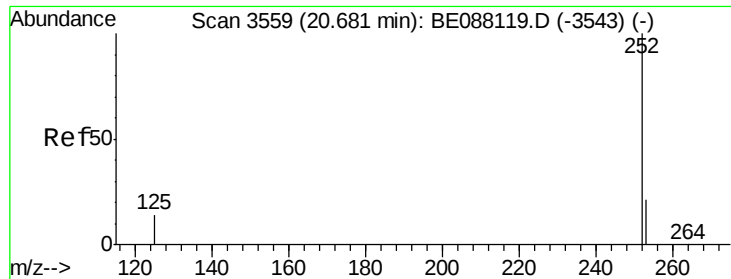
Ion Ratio Lower Upper

264 100

260 23.8 19.0 28.4

265 21.6 17.2 25.8





#23

Benzo(b)fluoranthene

Concen: 0.08 ng

RT: 20.68 min Scan# 3560

Delta R.T. -0.00 min

Lab File: BE088129.D

Acq: 21 Oct 2014 7:26

Instrument :

BNA_E

ClientSampleId :

YS19-GW13-1014

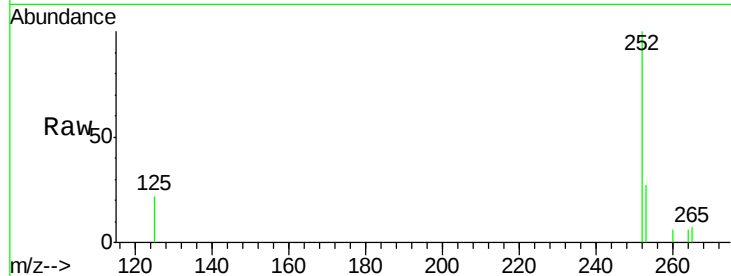
Tgt Ion:252 Resp: 1445

Ion Ratio Lower Upper

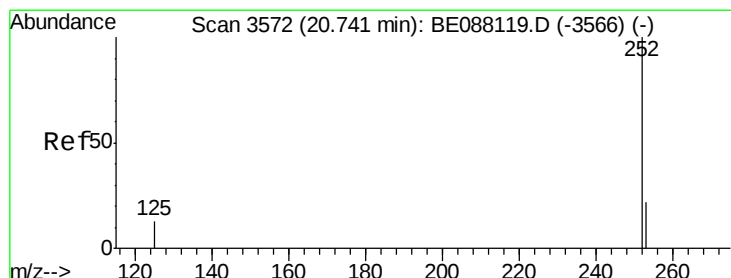
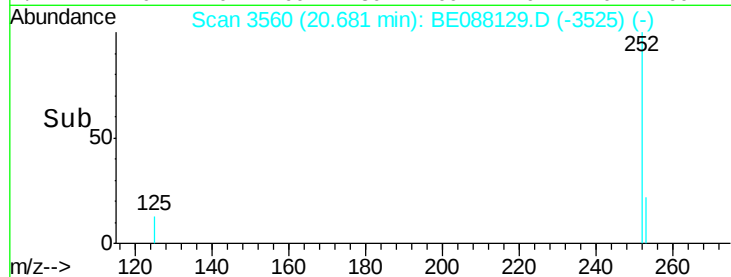
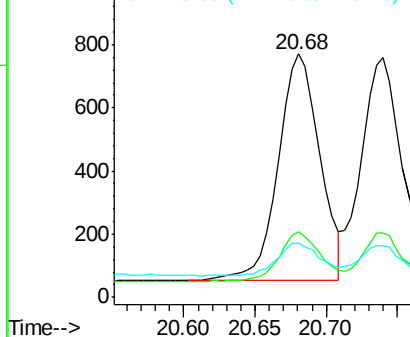
252 100

253 26.8 17.4 26.0#

125 22.2 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: 0.08 ng

RT: 20.74 min Scan# 3573

Delta R.T. -0.00 min

Lab File: BE088129.D

Acq: 21 Oct 2014 7:26

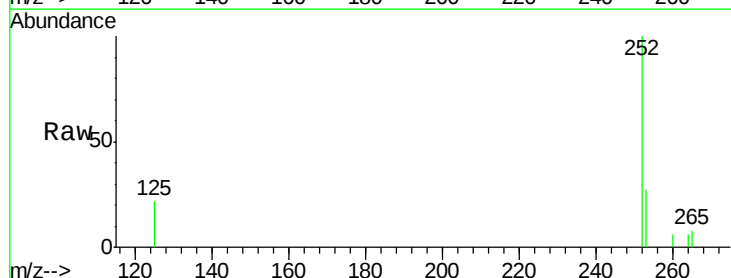
Tgt Ion:252 Resp: 1559

Ion Ratio Lower Upper

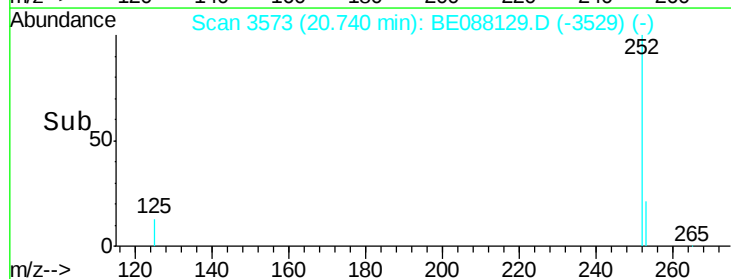
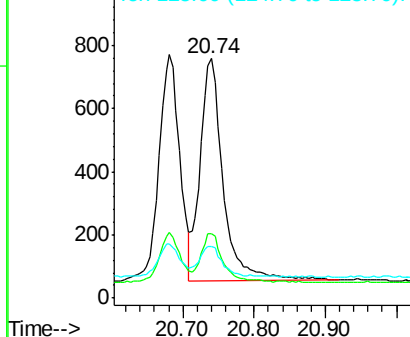
252 100

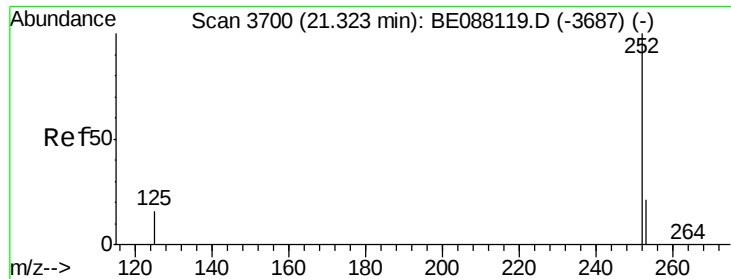
253 26.8 17.6 26.4#

125 21.5 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: 0.06 ng

RT: 21.32 min Scan# 3701

Delta R.T. -0.00 min

Lab File: BE088129.D

Acq: 21 Oct 2014 7:26

Instrument :

BNA_E

ClientSampleId :

YS19-GW13-1014

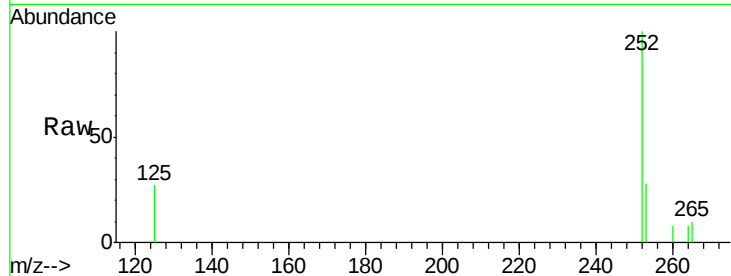
Tgt Ion: 252 Resp: 1062

Ion Ratio Lower Upper

252 100

253 28.3 17.5 26.3#

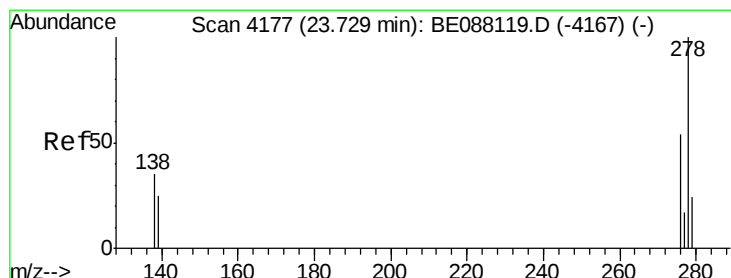
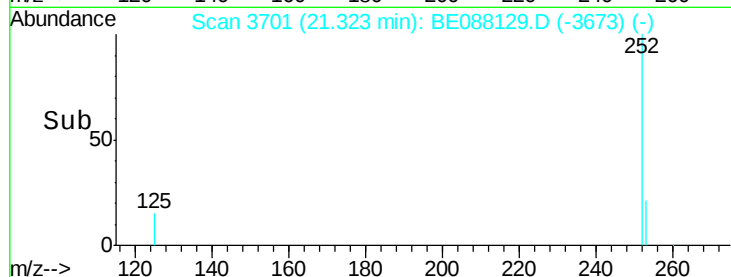
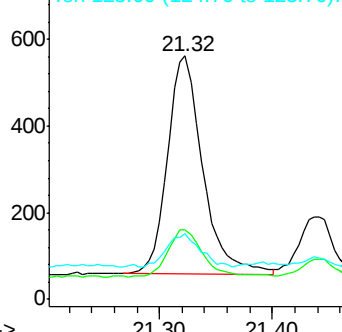
125 27.0 13.0 19.6#



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: 0.06 ng

RT: 23.73 min Scan# 4178

Delta R.T. -0.00 min

Lab File: BE088129.D

Acq: 21 Oct 2014 7:26

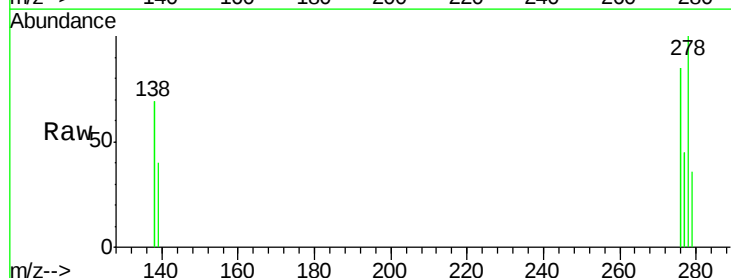
Tgt Ion: 278 Resp: 1036

Ion Ratio Lower Upper

278 100

139 39.6 20.9 31.3#

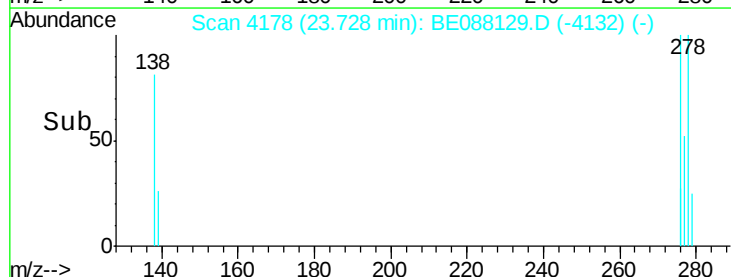
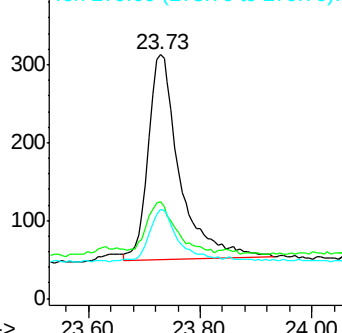
279 36.4 19.8 29.8#

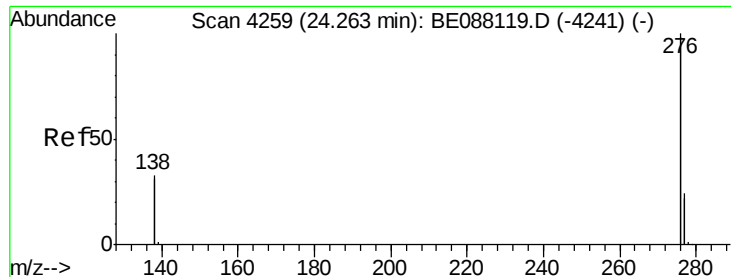


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.06 ng

RT: 24.26 min Scan# 4260

Delta R.T. -0.00 min

Lab File: BE088129.D

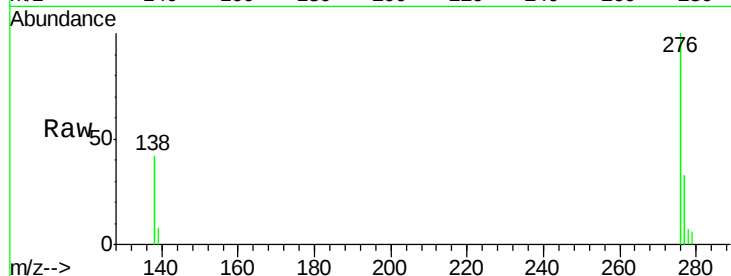
Acq: 21 Oct 2014 7:26

Instrument :

BNA_E

ClientSampleId :

YS19-GW13-1014



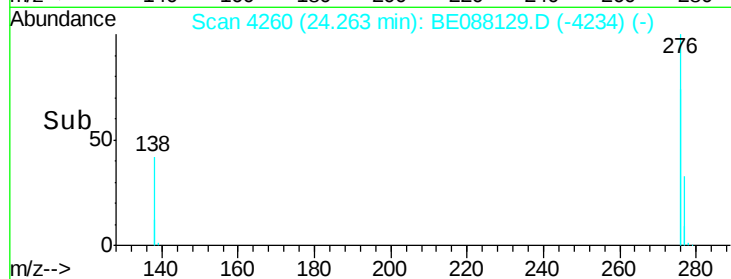
Tgt Ion: 276 Resp: 4740

Ion Ratio Lower Upper

276 100

277 32.9 19.2 28.8#

138 41.6 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

