

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088467.D
 Acq On : 2 Nov 2014 00:17
 Operator : TP/JJ
 Sample : F4368-05RE 5X
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS41-1014RE

Quant Time: Nov 02 04:22:59 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

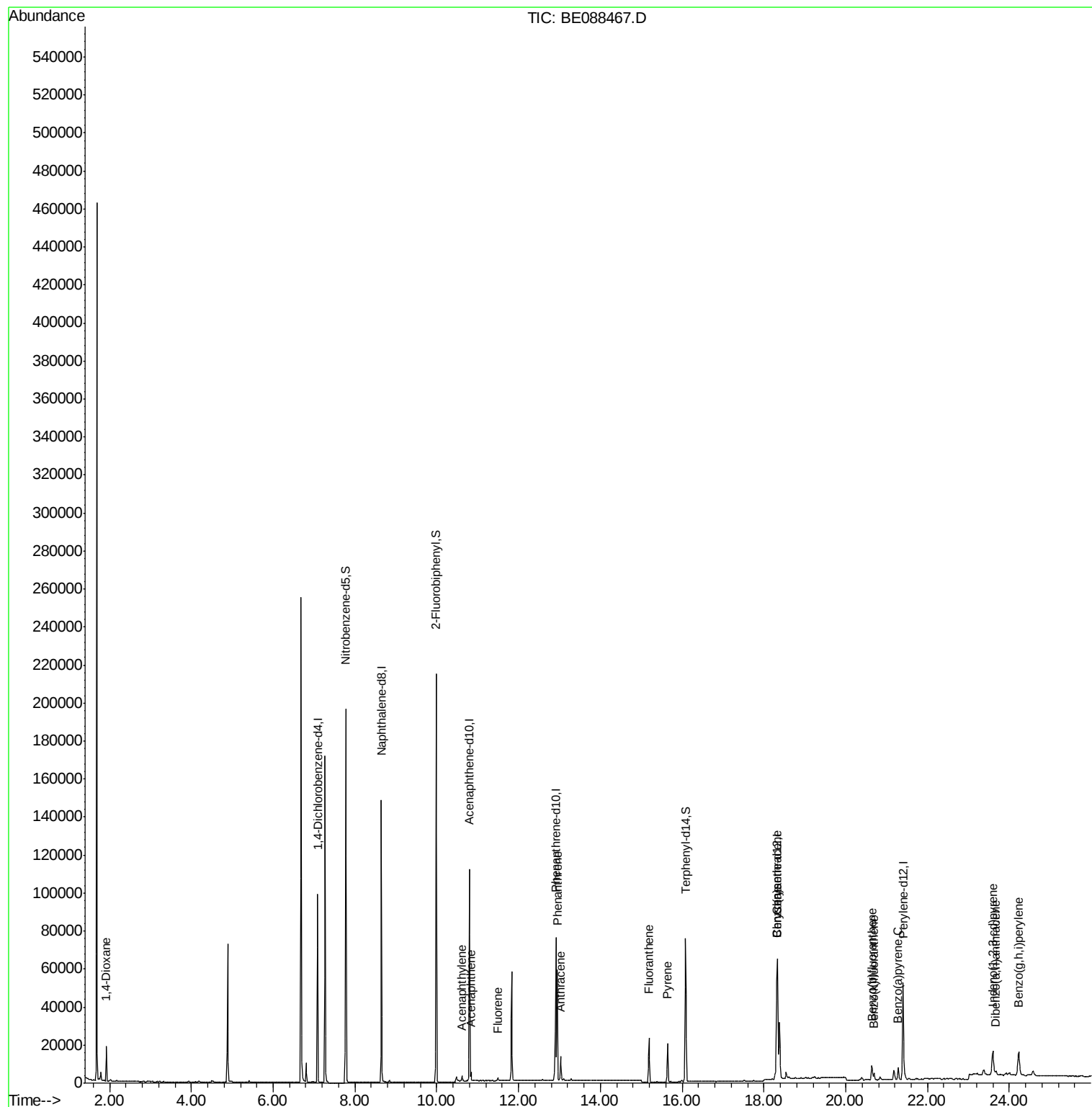
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	29809	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	114690	5.00	ng	0.00
7) Acenaphthene-d10	10.79	164	54158	5.00	ng	0.00
12) Phenanthrene-d10	12.91	188	107902	5.00	ng	0.01
16) Chrysene-d12	18.33	240	68817	5.00	ng	0.02
22) Perylene-d12	21.40	264	65412	5.00	ng	0.03
System Monitoring Compounds						
4) Nitrobenzene-d5	7.78	82	93017	11.06	ng	0.00
8) 2-Fluorobiphenyl	9.99	172	137798	9.03	ng	0.00
18) Terphenyl-d14	16.08	244	98799	7.81	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	1.93	88	553	0.14	ng	# 1
9) Acenaphthylene	10.62	152	4020	0.05	ng	# 92
10) Acenaphthene	10.84	154	731	0.06	ng	95
11) Fluorene	11.50	166	891	0.06	ng	# 92
13) Phenanthrene	12.95	178	74012	0.75	ng	95
14) Anthracene	13.03	178	12608	0.16	ng	# 88
15) Fluoranthene	15.19	202	21963	1.38	ng	100
17) Pyrene	15.64	202	19130	0.85	ng	97
19) Benzo(a)anthracene	18.31	228	39227	0.61	ng	94
20) Chrysene	18.31	228	39227	0.62	ng	95
21) Indeno(1,2,3-cd)pyrene	23.60	276	22722	0.38	ng	# 85
23) Benzo(b)fluoranthene	20.64	252	12721	0.89	ng	# 84
24) Benzo(k)fluoranthene	20.69	252	4516	0.29	ng	# 70
25) Benzo(a)pyrene	21.28	252	8563	0.62	ng	# 80
26) Dibenzo(a,h)anthracene	23.68	278	1500	0.12	ng	# 12
27) Benzo(g,h,i)perylene	24.23	276	25708	0.44	ng	# 81

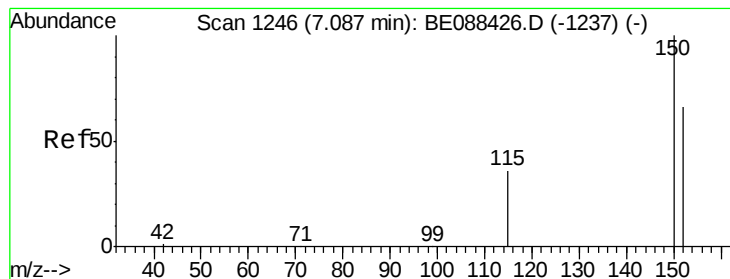
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE088467.D

Acq: 2 Nov 2014 00:17

Instrument :

BNA_E

ClientSampleId :

YS19-SS41-1014RE

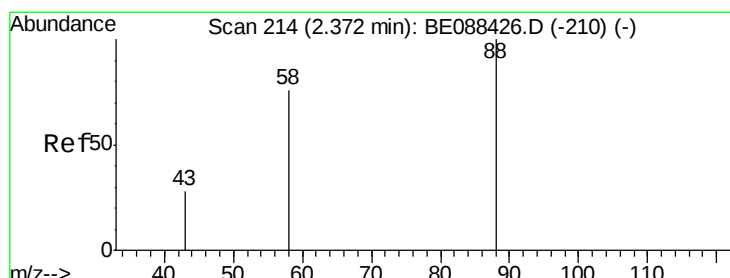
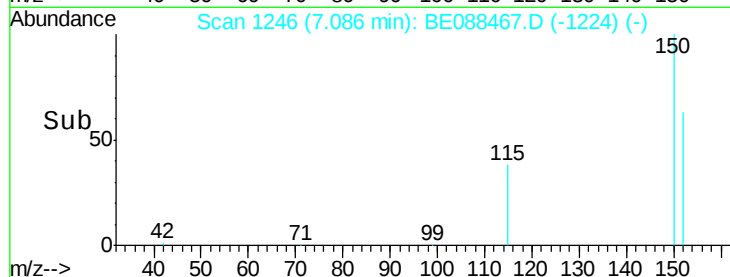
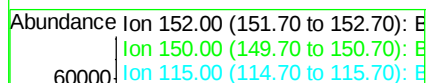
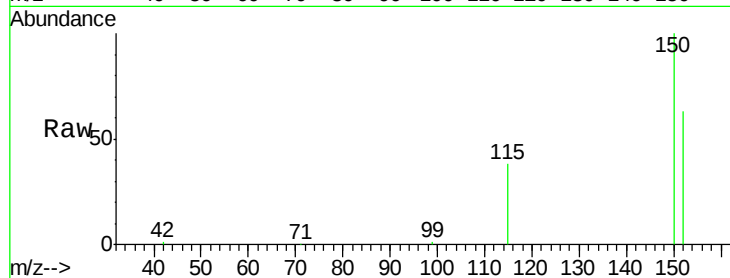
Tgt Ion:152 Resp: 29809

Ion Ratio Lower Upper

152 100

150 159.9 121.8 182.8

115 61.1 43.9 65.9



#2

1,4-Dioxane

Concen: 0.14 ng

RT: 1.93 min Scan# 116

Delta R.T. -0.45 min

Lab File: BE088467.D

Acq: 2 Nov 2014 00:17

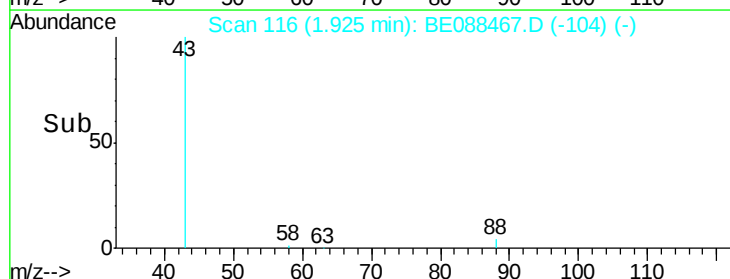
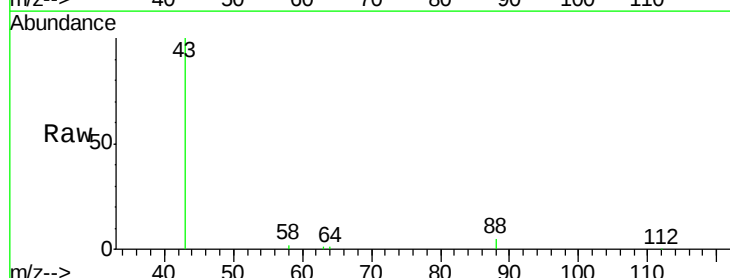
Tgt Ion: 88 Resp: 553

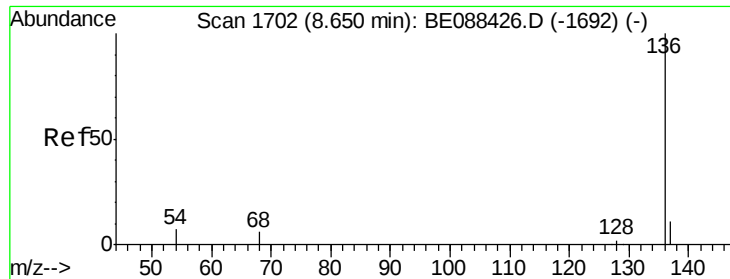
Ion Ratio Lower Upper

88 100

58 23.7 59.1 88.7#

43 2729.1 21.9 32.9#

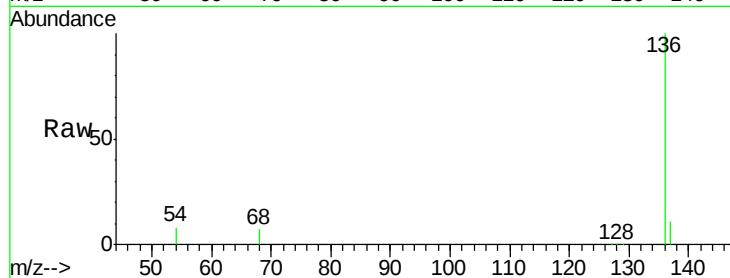




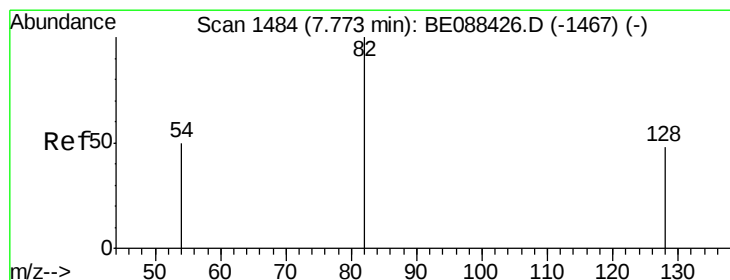
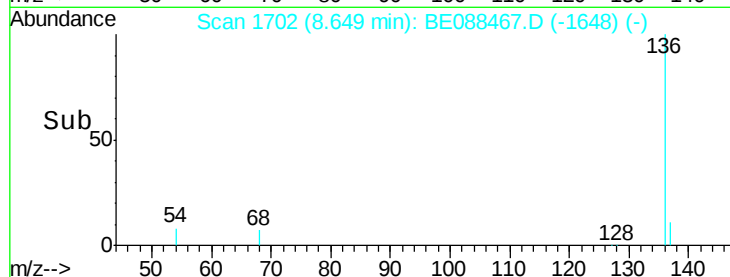
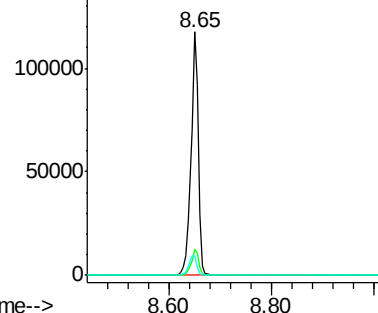
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.65 min Scan# 1702
Delta R.T. -0.00 min
Lab File: BE088467.D
Acq: 2 Nov 2014 00:17

Instrument :
BNA_E
ClientSampleId :
YS19-SS41-1014RE

Tgt Ion: 136 Resp: 114690
Ion Ratio Lower Upper
136 100
137 10.9 8.8 13.2
54 8.0 5.3 7.9#

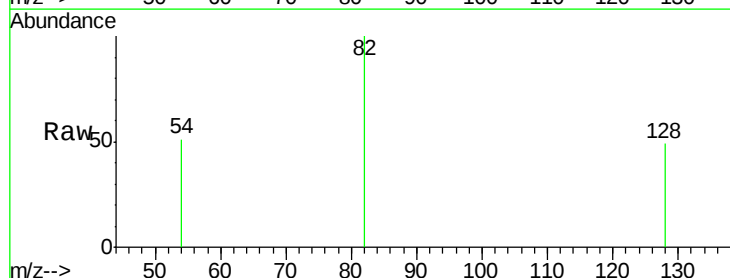


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): E

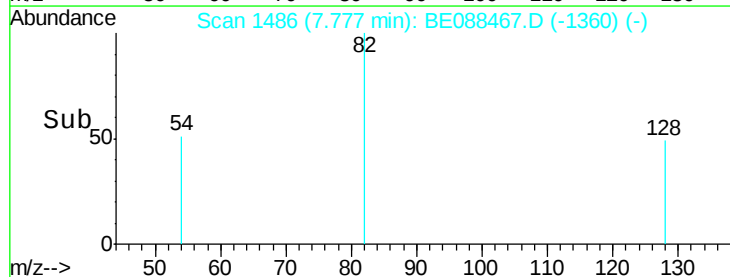
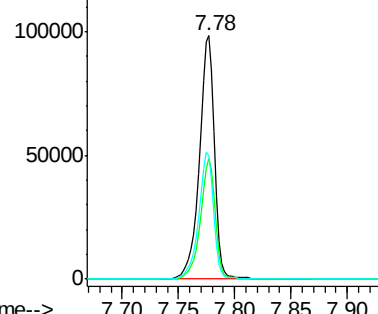


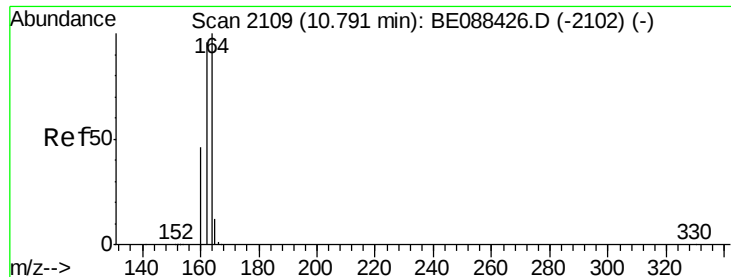
#4
Nitrobenzene-d5
Concen: 11.06 ng
RT: 7.78 min Scan# 1486
Delta R.T. 0.00 min
Lab File: BE088467.D
Acq: 2 Nov 2014 00:17

Tgt Ion: 82 Resp: 93017
Ion Ratio Lower Upper
82 100
128 49.4 38.4 57.6
54 50.6 40.2 60.2



Abundance Ion 82.00 (81.70 to 82.70): E
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): E





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.79 min Scan# 2109

Delta R.T. 0.00 min

Lab File: BE088467.D

Acq: 2 Nov 2014 00:17

Instrument :

BNA_E

ClientSampleId :

YS19-SS41-1014RE

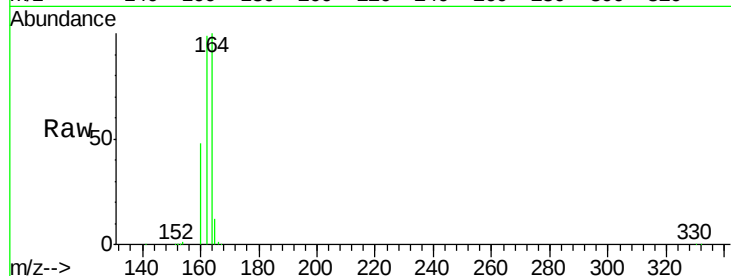
Tgt Ion:164 Resp: 54158

Ion Ratio Lower Upper

164 100

162 99.4 77.0 115.4

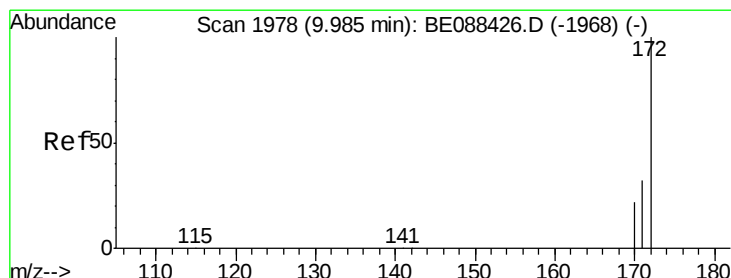
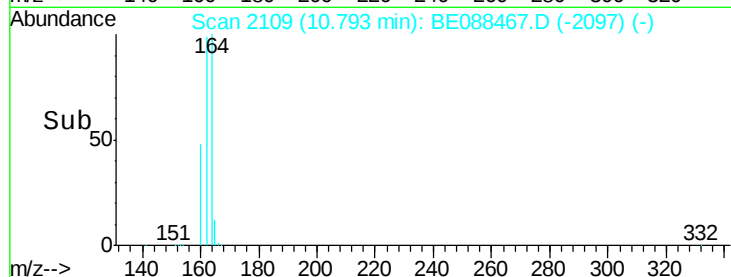
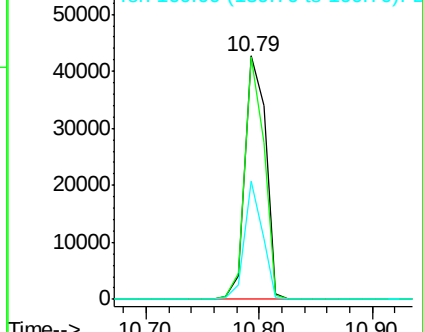
160 48.4 36.8 55.2



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: 9.03 ng

RT: 9.99 min Scan# 1979

Delta R.T. 0.00 min

Lab File: BE088467.D

Acq: 2 Nov 2014 00:17

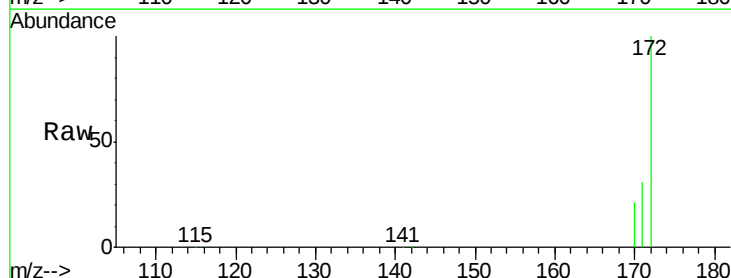
Tgt Ion:172 Resp: 137798

Ion Ratio Lower Upper

172 100

171 31.3 26.0 39.0

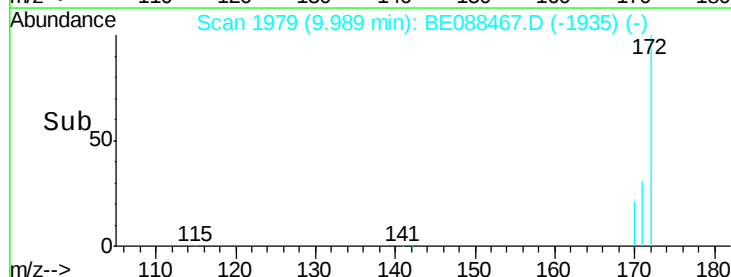
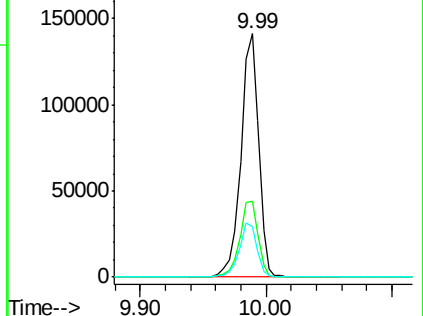
170 20.6 17.6 26.4

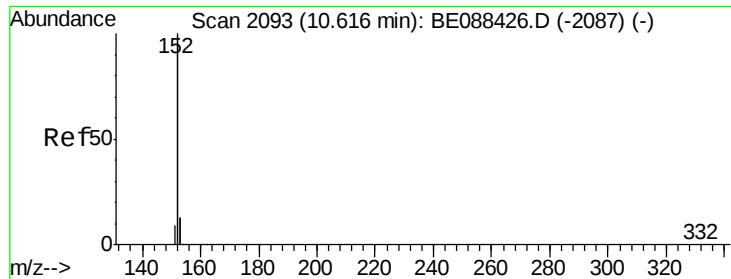


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 0.05 ng

RT: 10.62 min Scan# 2093

Delta R.T. 0.00 min

Lab File: BE088467.D

Acq: 2 Nov 2014 00:17

Instrument :

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ClientSampleId :

YS19-SS41-1014RE

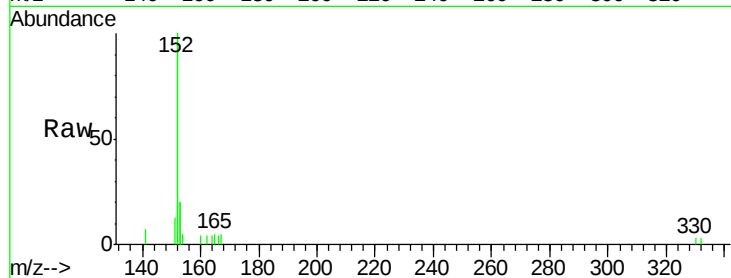
Tgt Ion:152 Resp: 4020

Ion Ratio Lower Upper

152 100

151 9.4 4.4 6.6#

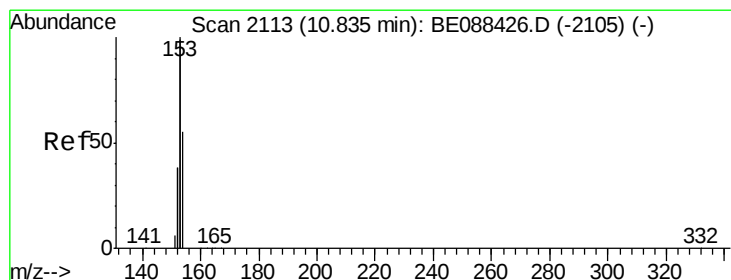
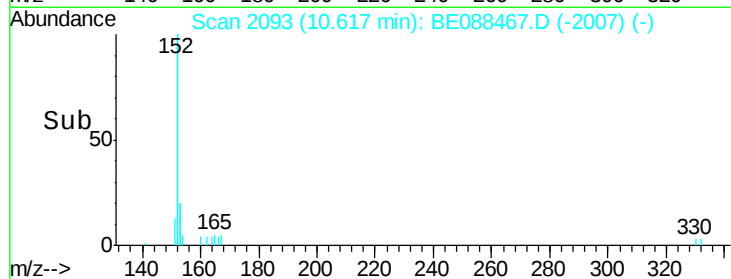
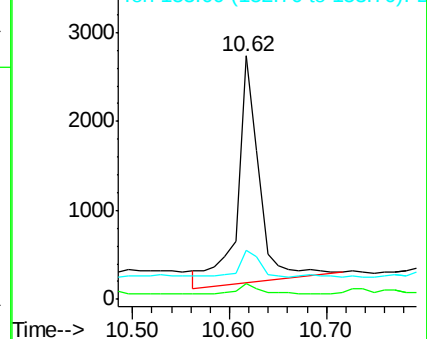
153 15.7 10.5 15.7#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#10

Acenaphthene

Concen: 0.06 ng

RT: 10.84 min Scan# 2113

Delta R.T. 0.00 min

Lab File: BE088467.D

Acq: 2 Nov 2014 00:17

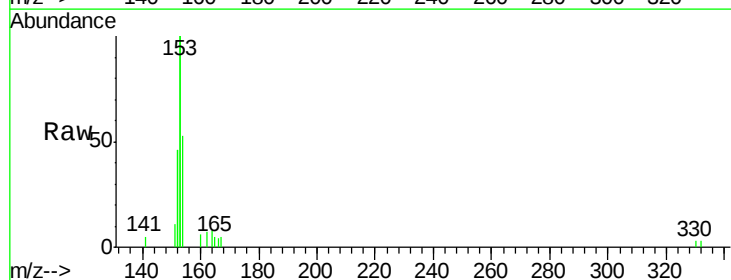
Tgt Ion:154 Resp: 731

Ion Ratio Lower Upper

154 100

153 388.1 324.3 486.5

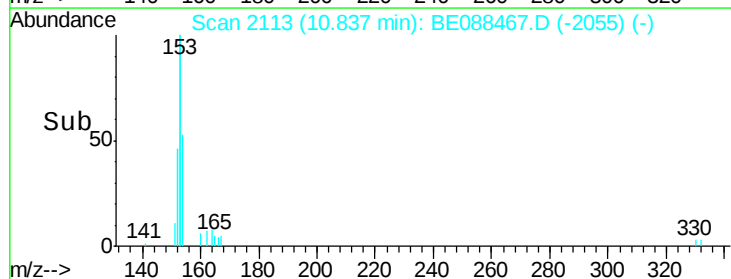
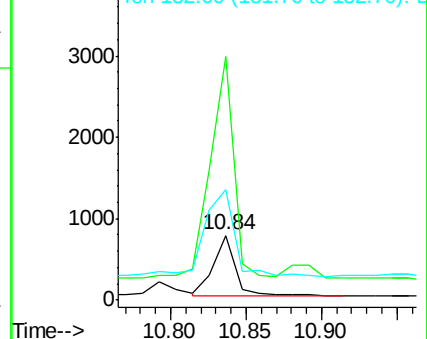
152 191.7 154.9 232.3

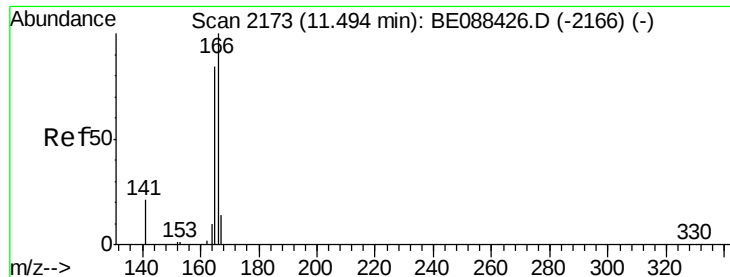


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 0.06 ng

RT: 11.50 min Scan# 2173

Delta R.T. 0.00 min

Lab File: BE088467.D

Acq: 2 Nov 2014 00:17

Instrument :

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ClientSampleId :

YS19-SS41-1014RE

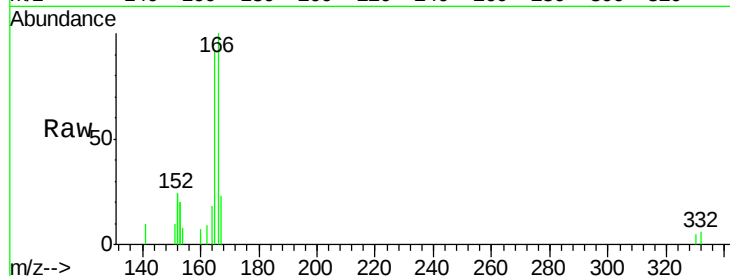
Tgt Ion:166 Resp: 891

Ion Ratio Lower Upper

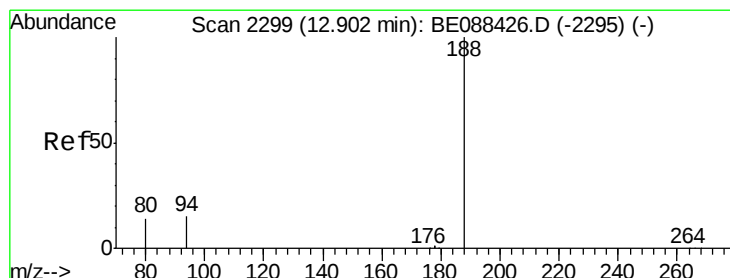
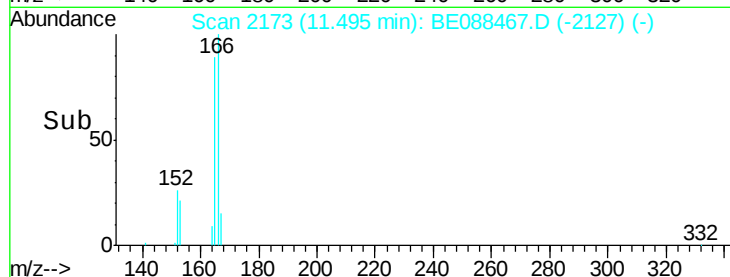
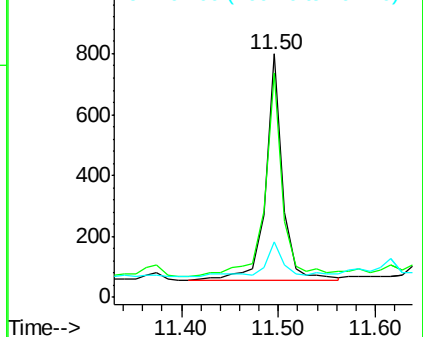
166 100

165 95.6 71.3 106.9

167 18.3 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: 12.91 min Scan# 2300

Delta R.T. 0.01 min

Lab File: BE088467.D

Acq: 2 Nov 2014 00:17

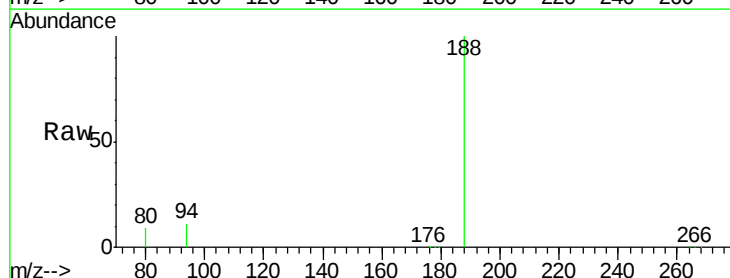
Tgt Ion:188 Resp: 107902

Ion Ratio Lower Upper

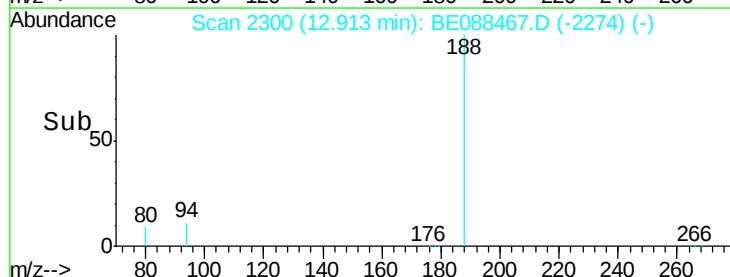
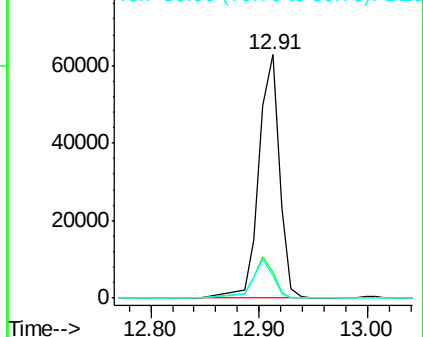
188 100

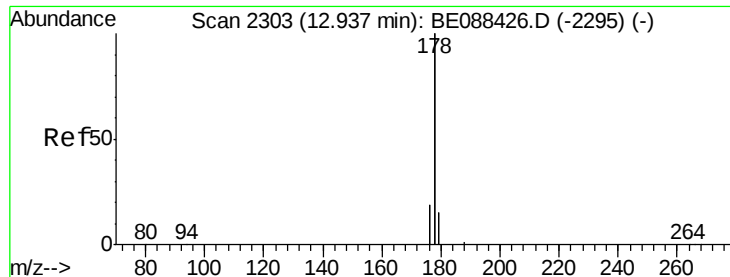
94 10.7 11.8 17.8#

80 9.3 10.9 16.3#



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

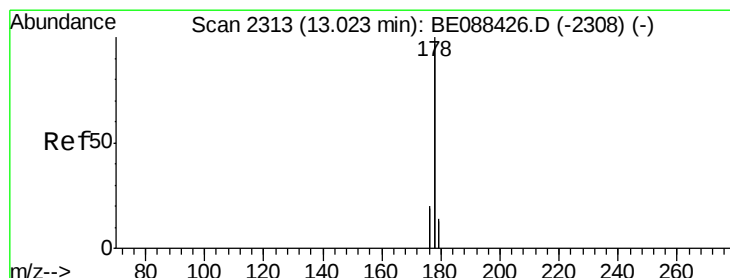
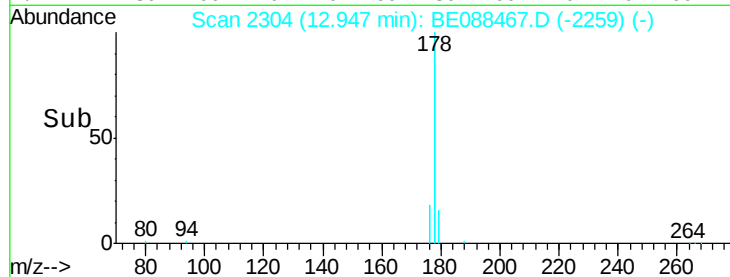
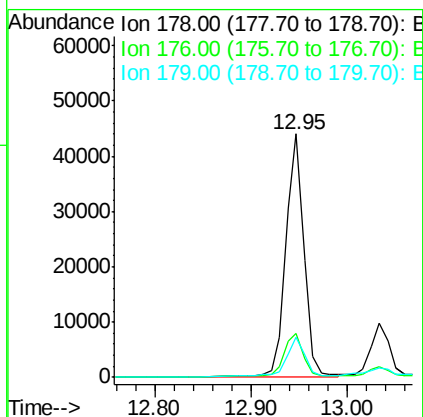
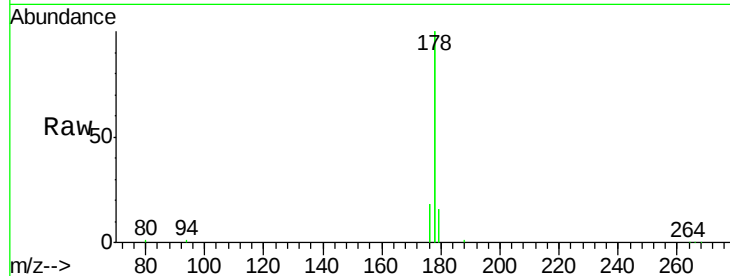




#13
Phenanthrene
Concen: 0.75 ng
RT: 12.95 min Scan# 2304
Delta R.T. 0.01 min
Lab File: BE088467.D
Acq: 2 Nov 2014 00:17

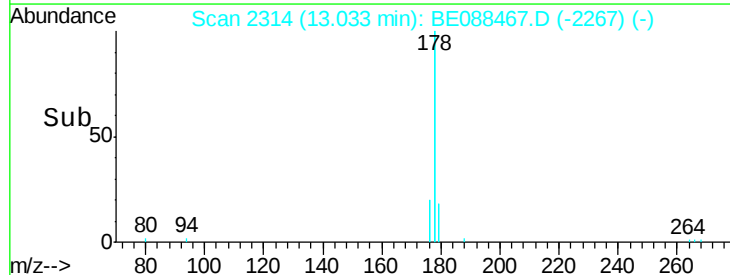
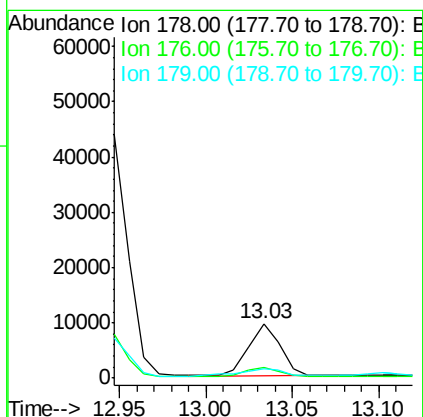
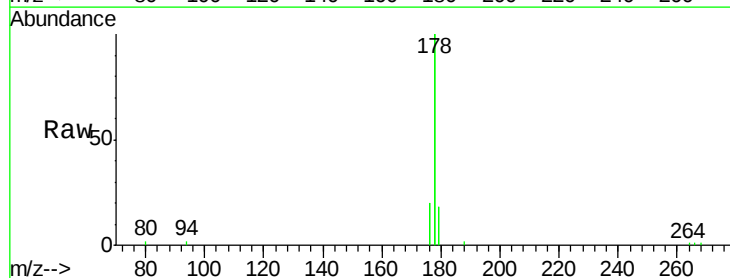
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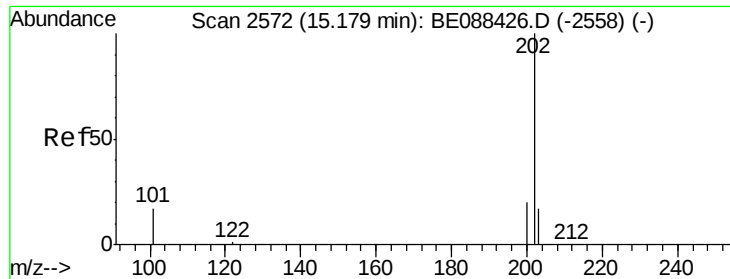
Tgt Ion:178 Resp: 74012
Ion Ratio Lower Upper
178 100
176 20.7 15.4 23.2
179 18.7 12.8 19.2



#14
Anthracene
Concen: 0.16 ng
RT: 13.03 min Scan# 2314
Delta R.T. 0.01 min
Lab File: BE088467.D
Acq: 2 Nov 2014 00:17

Tgt Ion:178 Resp: 12608
Ion Ratio Lower Upper
178 100
176 19.4 15.0 22.4
179 26.1 12.5 18.7#

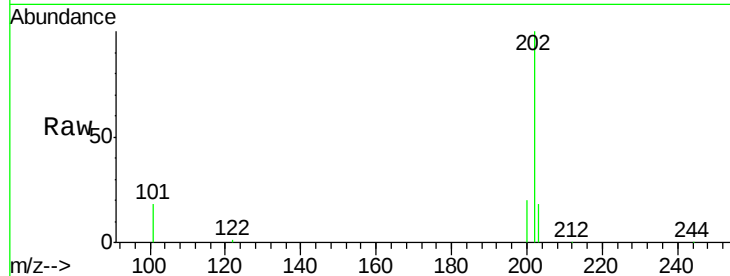




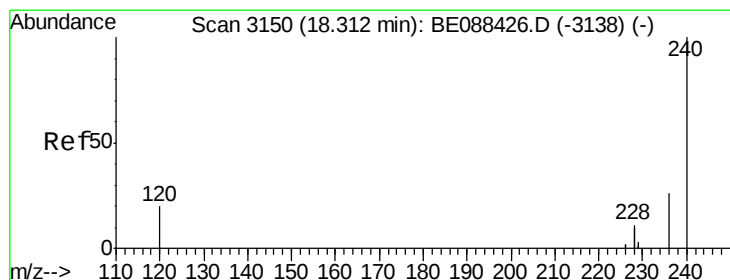
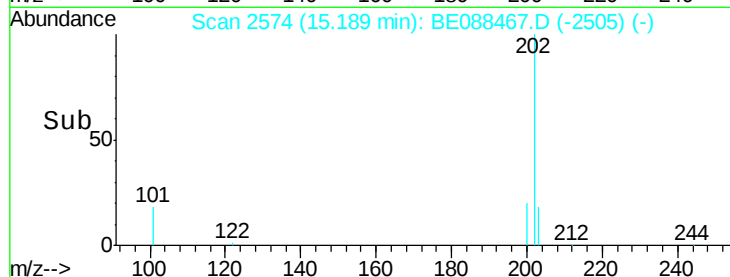
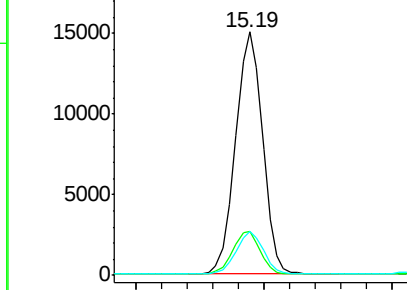
#15
Fluoranthene
 Concen: 1.38 ng
 RT: 15.19 min Scan# 2574
 Delta R.T. 0.01 min
 Lab File: BE088467.D
 Acq: 2 Nov 2014 00:17

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS41-1014RE

Tgt Ion: 202 Resp: 21963
 Ion Ratio Lower Upper
 202 100
 101 17.8 14.3 21.5
 203 17.3 13.6 20.4

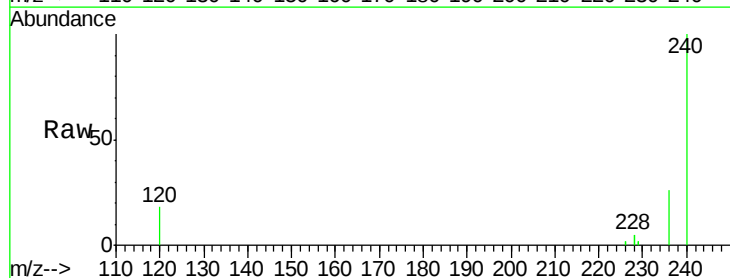


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

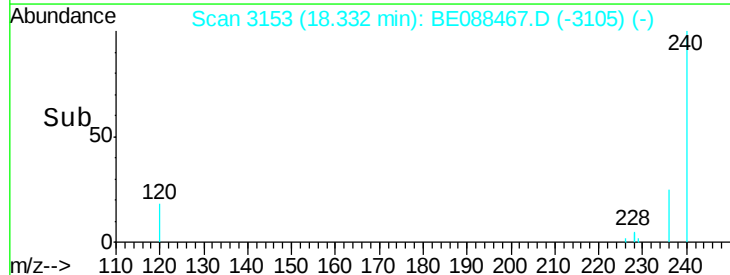
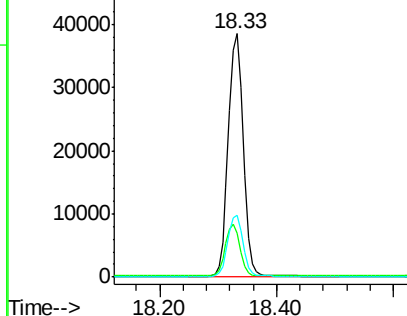


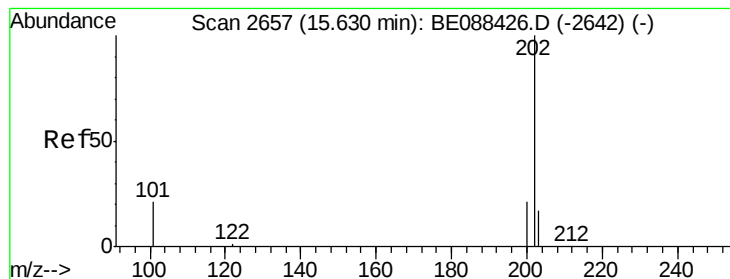
#16
Chrysene-d12
 Concen: 5.00 ng
 RT: 18.33 min Scan# 3153
 Delta R.T. 0.02 min
 Lab File: BE088467.D
 Acq: 2 Nov 2014 00:17

Tgt Ion: 240 Resp: 68817
 Ion Ratio Lower Upper
 240 100
 120 18.1 16.4 24.6
 236 25.6 20.5 30.7



Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E





#17

Pyrene

Concen: 0.85 ng

RT: 15.64 min Scan# 2660

Delta R.T. 0.02 min

Lab File: BE088467.D

Acq: 2 Nov 2014 00:17

Instrument :

BNA_E

ClientSampleId :

YS19-SS41-1014RE

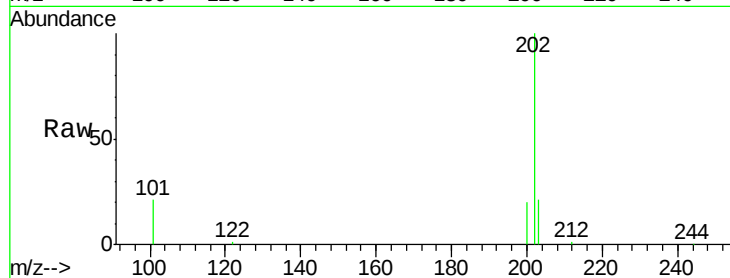
Tgt Ion:202 Resp: 19130

Ion Ratio Lower Upper

202 100

200 20.1 16.1 24.1

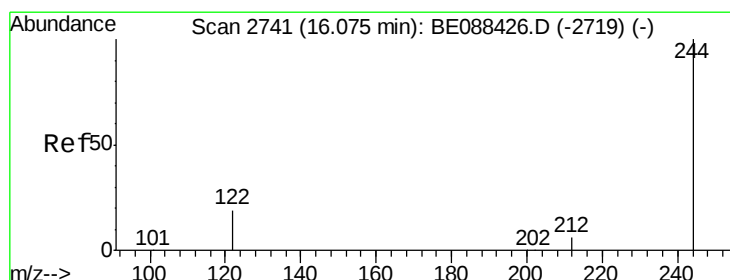
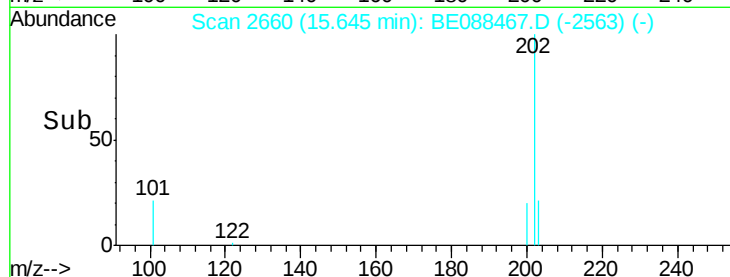
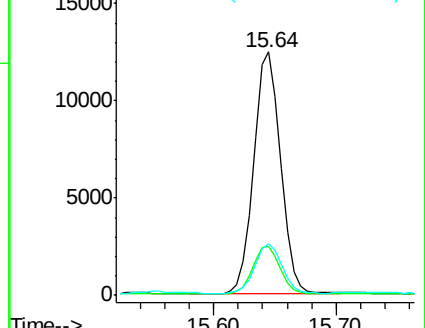
203 20.5 13.8 20.8



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: 7.81 ng

RT: 16.08 min Scan# 2743

Delta R.T. 0.01 min

Lab File: BE088467.D

Acq: 2 Nov 2014 00:17

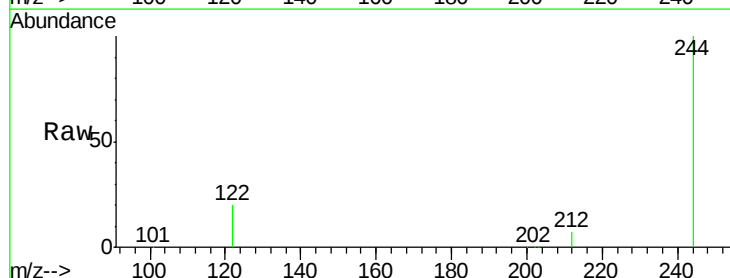
Tgt Ion:244 Resp: 98799

Ion Ratio Lower Upper

244 100

212 6.9 5.5 8.3

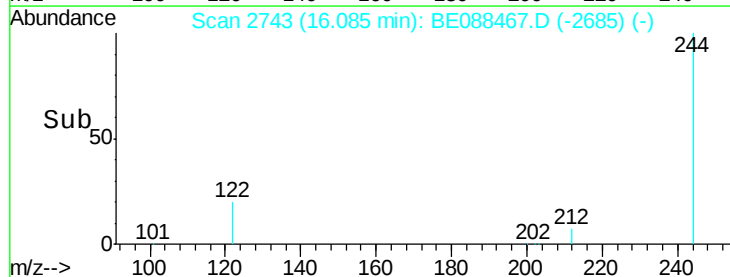
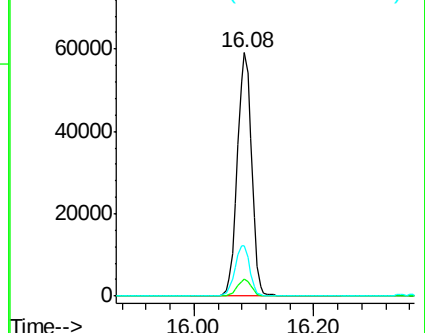
122 20.5 15.6 23.4

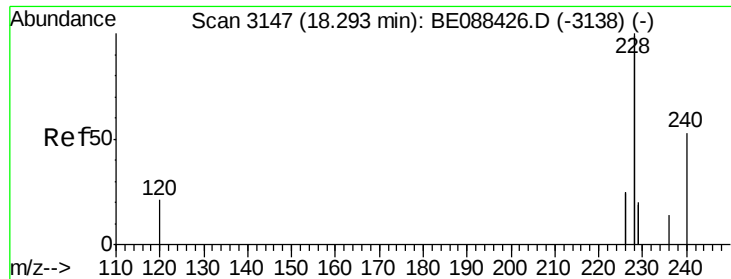


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 0.61 ng

RT: 18.31 min Scan# 3149

Delta R.T. 0.01 min

Lab File: BE088467.D

Acq: 2 Nov 2014 00:17

Instrument :

BNA_E

ClientSampleId :

YS19-SS41-1014RE

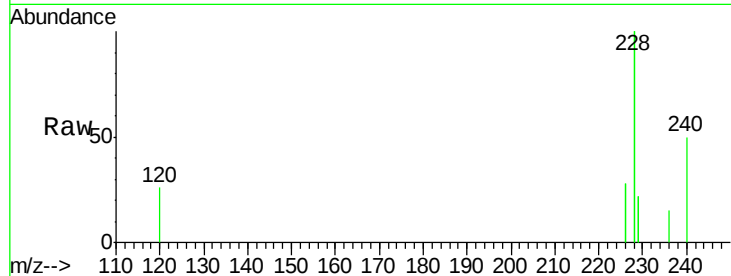
Tgt Ion:228 Resp: 39227

Ion Ratio Lower Upper

228 100

226 27.6 19.8 29.6

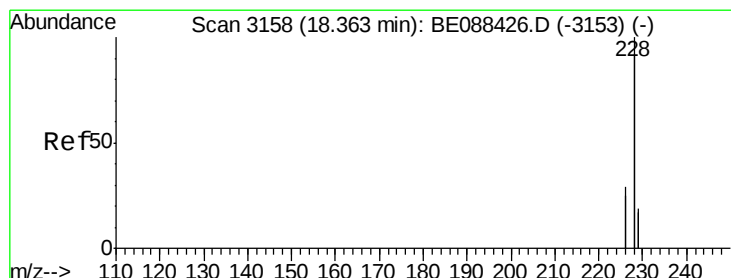
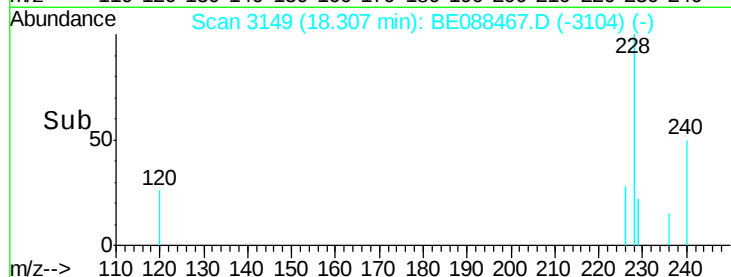
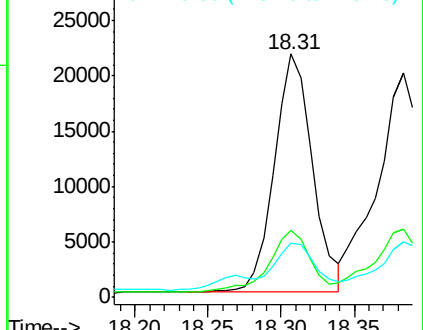
229 22.4 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#20

Chrysene

Concen: 0.62 ng

RT: 18.31 min Scan# 3149

Delta R.T. -0.06 min

Lab File: BE088467.D

Acq: 2 Nov 2014 00:17

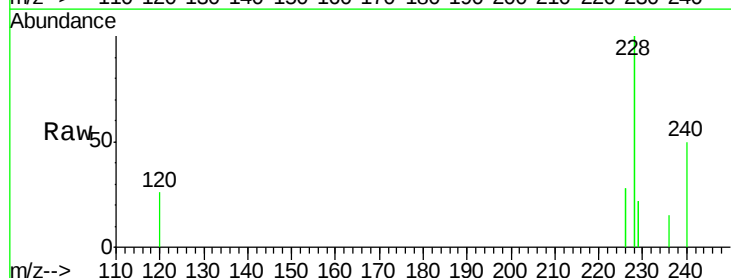
Tgt Ion:228 Resp: 39227

Ion Ratio Lower Upper

228 100

226 27.6 23.6 35.4

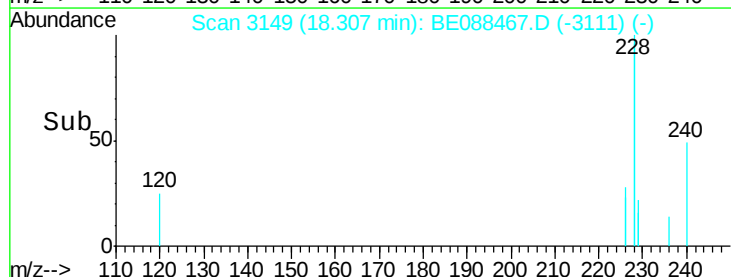
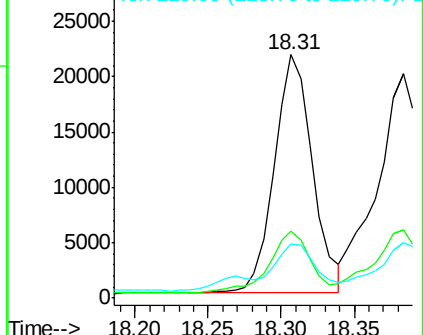
229 22.4 15.4 23.2

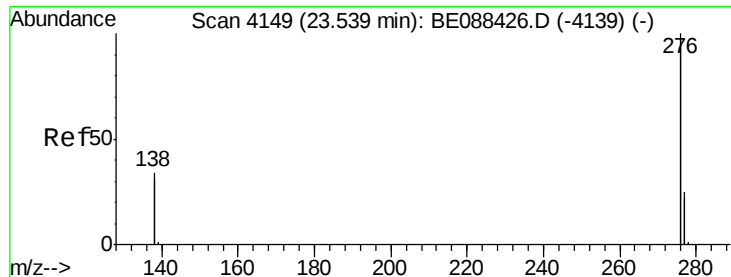


Abundance Ion 228.00 (227.70 to 228.70): E

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: 0.38 ng

RT: 23.60 min Scan# 4158

Delta R.T. 0.06 min

Lab File: BE088467.D

Acq: 2 Nov 2014 00:17

Instrument :

BNA_E

ClientSampleId :

YS19-SS41-1014RE

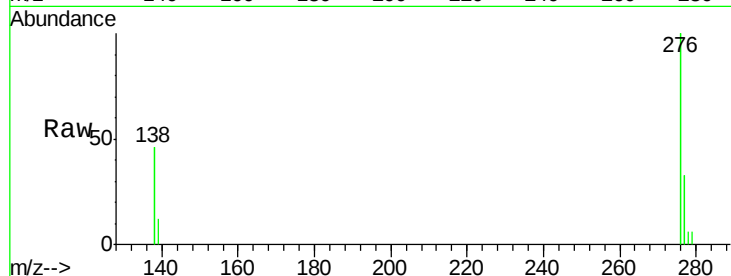
Tgt Ion:276 Resp: 22722

Ion Ratio Lower Upper

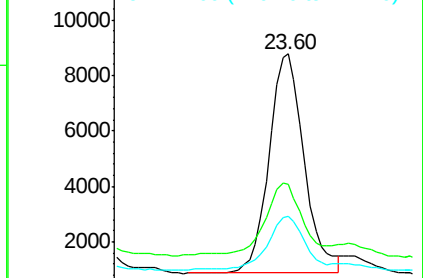
276 100

138 32.4 20.2 30.2#

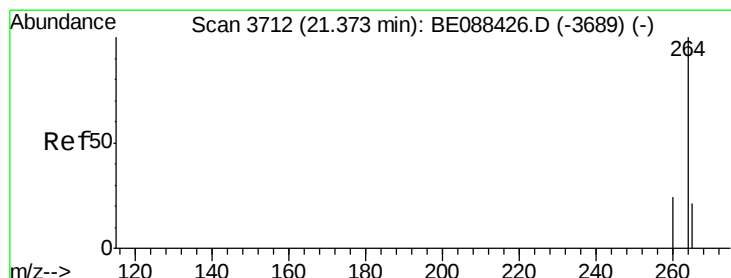
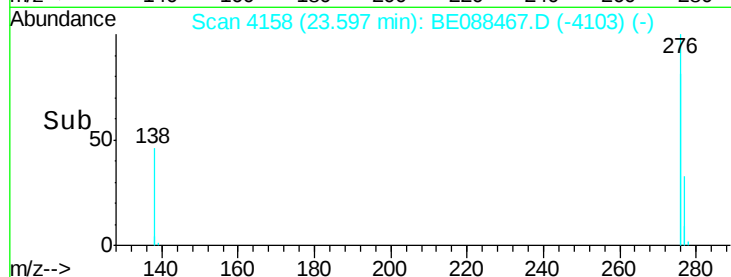
277 25.2 14.8 22.2#



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



Time--> 23.40 23.50 23.60 23.70



#22

Perylene-d12

Concen: 5.00 ng

RT: 21.40 min Scan# 3718

Delta R.T. 0.03 min

Lab File: BE088467.D

Acq: 2 Nov 2014 00:17

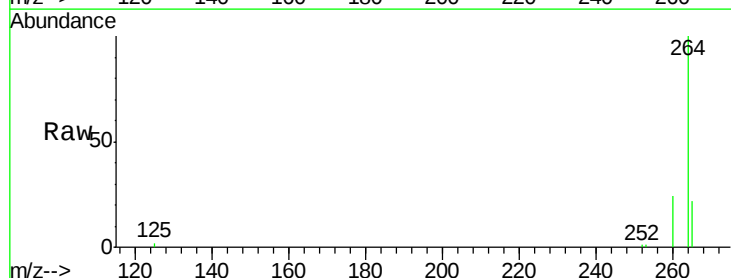
Tgt Ion:264 Resp: 65412

Ion Ratio Lower Upper

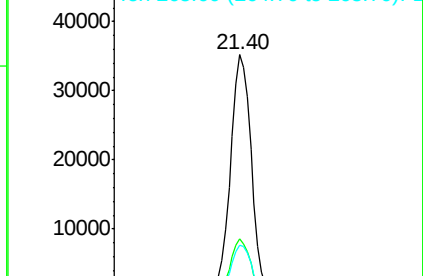
264 100

260 24.3 18.9 28.3

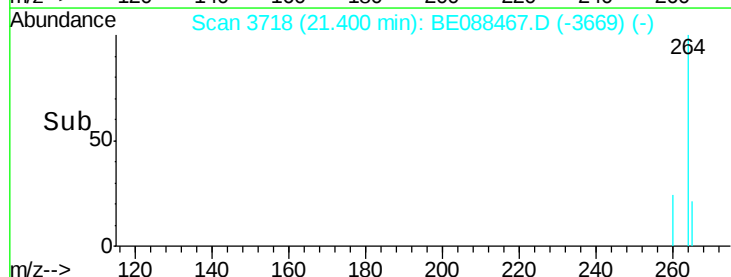
265 21.8 17.2 25.8

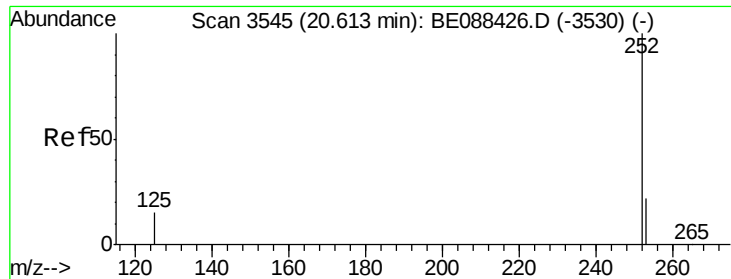


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



Time--> 21.30 21.40 21.50





#23

Benzo(b)fluoranthene

Concen: 0.89 ng

RT: 20.64 min Scan# 3551

Delta R.T. 0.03 min

Lab File: BE088467.D

Acq: 2 Nov 2014 00:17

Instrument :

BNA_E

ClientSampleId :

YS19-SS41-1014RE

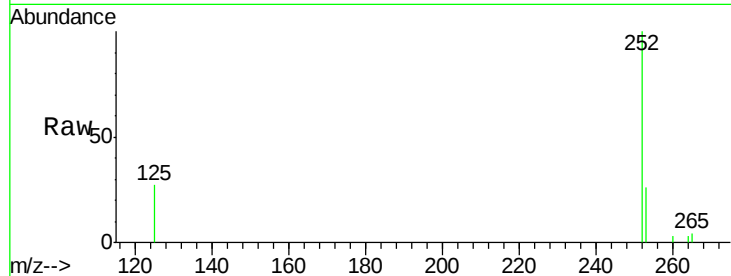
Tgt Ion:252 Resp: 12721

Ion Ratio Lower Upper

252 100

253 26.1 17.8 26.8

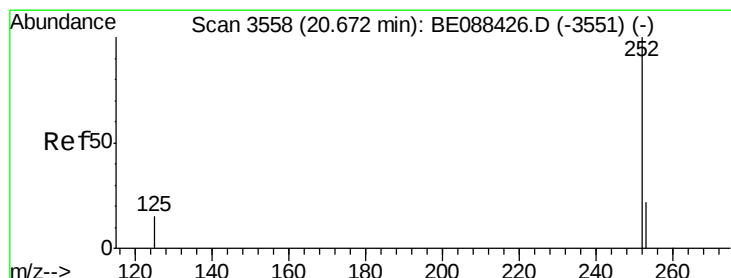
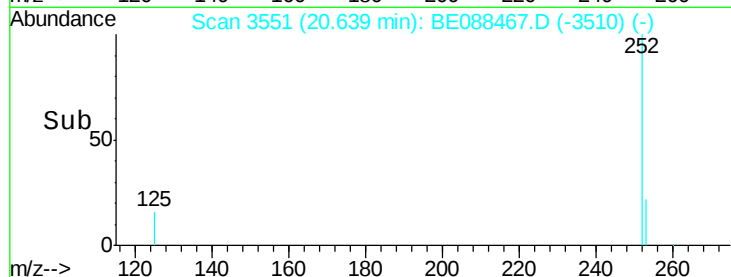
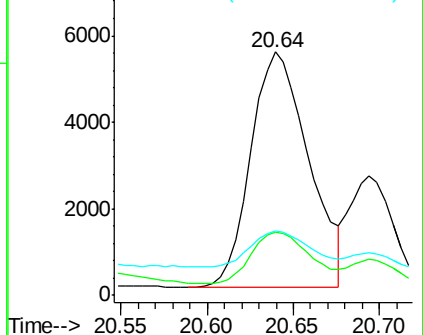
125 26.5 12.3 18.5#



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: 0.29 ng

RT: 20.69 min Scan# 3563

Delta R.T. 0.02 min

Lab File: BE088467.D

Acq: 2 Nov 2014 00:17

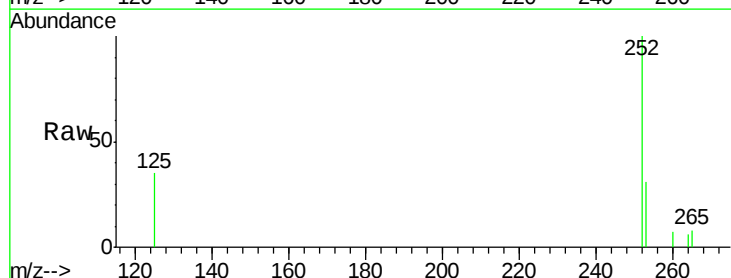
Tgt Ion:252 Resp: 4516

Ion Ratio Lower Upper

252 100

253 30.6 17.8 26.8#

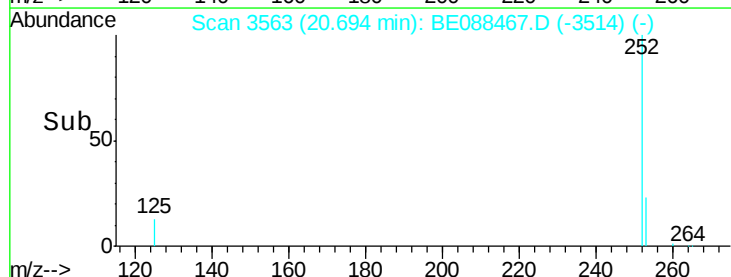
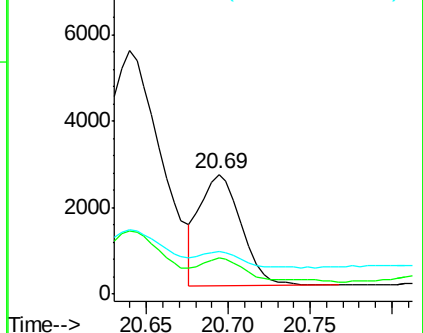
125 35.3 12.2 18.4#

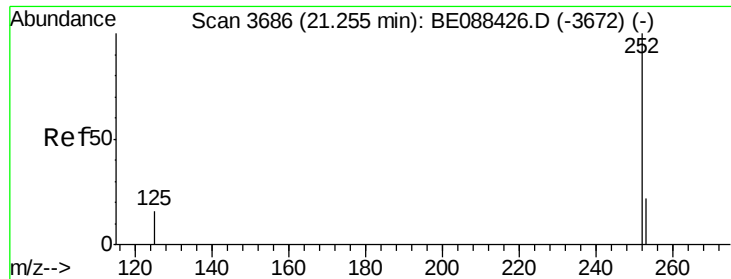


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 0.62 ng

RT: 21.28 min Scan# 3692

Delta R.T. 0.03 min

Lab File: BE088467.D

Acq: 2 Nov 2014 00:17

Instrument :

BNA_E

ClientSampleId :

YS19-SS41-1014RE

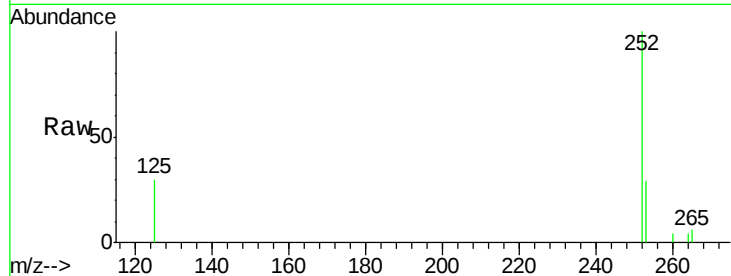
Tgt Ion: 252 Resp: 8563

Ion Ratio Lower Upper

252 100

253 28.8 18.2 27.4#

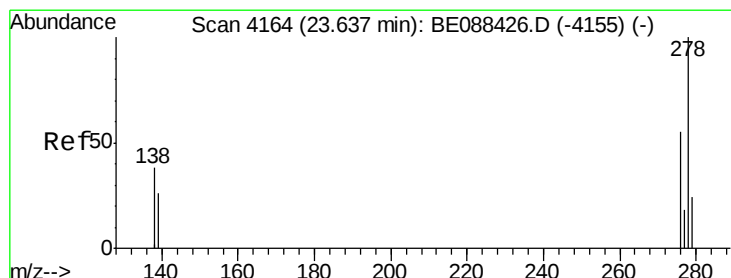
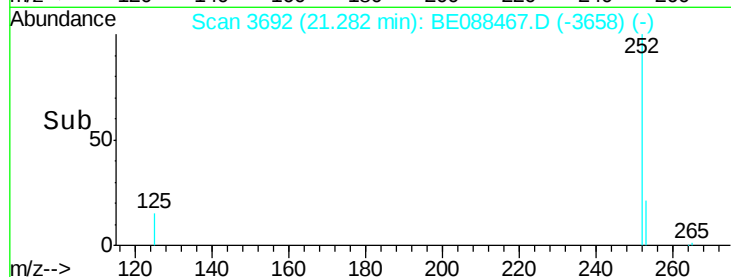
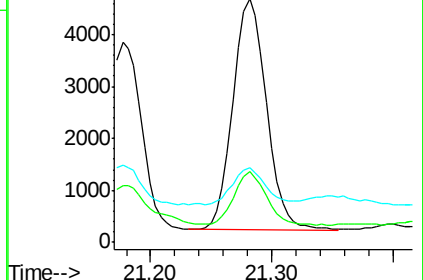
125 30.4 13.7 20.5#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#26

Dibenzo(a,h)anthracene

Concen: 0.12 ng

RT: 23.68 min Scan# 4170

Delta R.T. 0.04 min

Lab File: BE088467.D

Acq: 2 Nov 2014 00:17

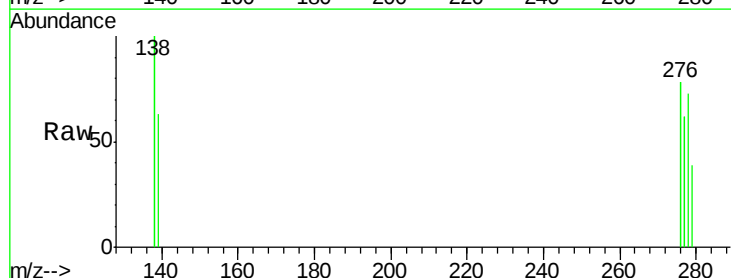
Tgt Ion: 278 Resp: 1500

Ion Ratio Lower Upper

278 100

139 86.5 22.1 33.1#

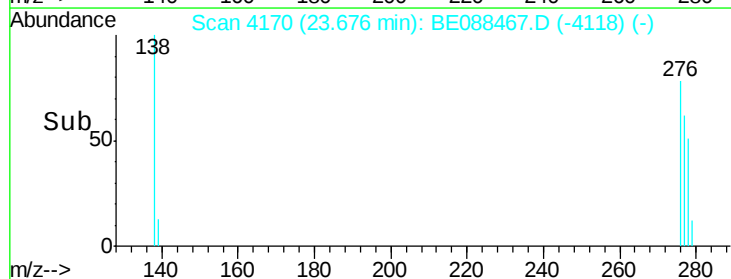
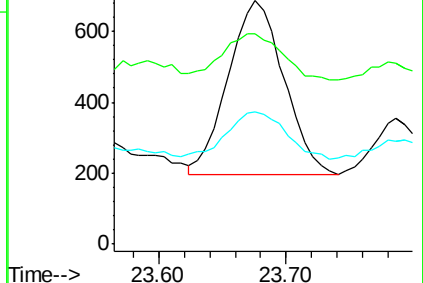
279 54.4 19.7 29.5#

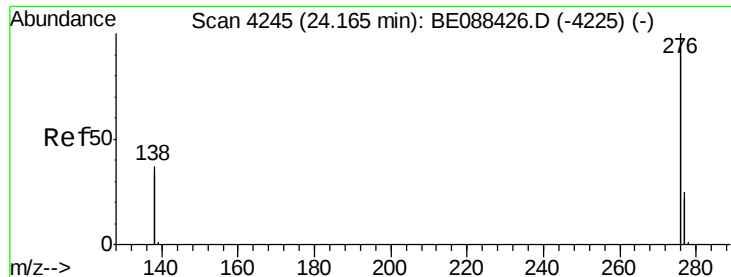


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.44 ng

RT: 24.23 min Scan# 4255

Delta R.T. 0.06 min

Lab File: BE088467.D

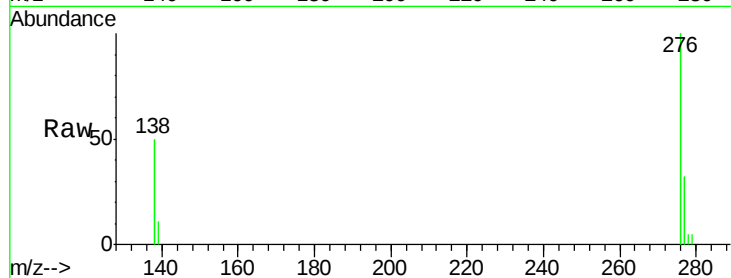
Acq: 2 Nov 2014 00:17

Instrument :

BNA_E

ClientSampleId :

YS19-SS41-1014RE



Tgt Ion: 276 Resp: 25708

Ion Ratio Lower Upper

276 100

277 31.9 19.8 29.6#

138 49.5 29.3 43.9#

