

Data Path : Z:\HPCHEM1\BNA_E\Data\BE102114\
 Data File : BE088167.D
 Acq On : 22 Oct 2014 6:19
 Operator : TP/JJ
 Sample : F4312-08DL 5X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB25-1014DL

Quant Time: Oct 22 07:01:44 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

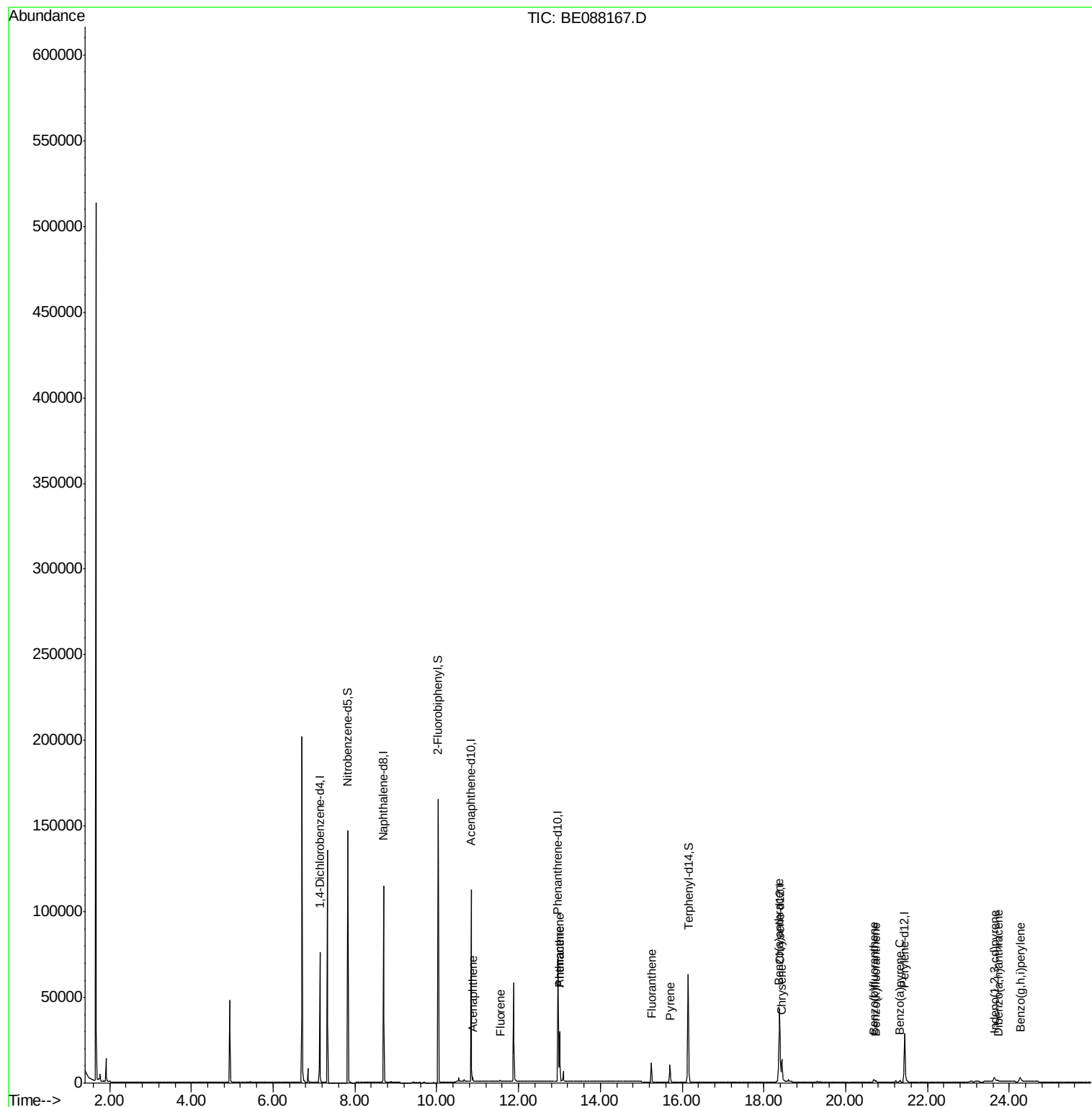
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	21356	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	83943	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	44411	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	86140	5.00	ng	0.00
16) Chrysene-d12	18.38	240	48336	5.00	ng	0.00
22) Perylene-d12	21.44	264	39918	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.83	82	61434	10.15	ng	0.00
8) 2-Fluorobiphenyl	10.04	172	99484	8.11	ng	0.00
18) Terphenyl-d14	16.15	244	81306	10.45	ng	0.00
Target Compounds						Qvalue
10) Acenaphthene	10.88	154	294	0.03	ng	92
11) Fluorene	11.55	166	399	0.04	ng	96
13) Phenanthrene	13.01	178	28738	0.24	ng	96
14) Anthracene	13.01	178	28738	0.43	ng	97
15) Fluoranthene	15.25	202	10858	0.66	ng	100
17) Pyrene	15.70	202	9532	0.73	ng	97
19) Benzo(a)anthracene	18.36	228	16148	0.38	ng	97
20) Chrysene	18.44	228	18871	0.45	ng	95
21) Indeno(1,2,3-cd)pyrene	23.63	276	6598	0.14	ng	# 92
23) Benzo(b)fluoranthene	20.69	252	3330	0.35	ng	# 93
24) Benzo(k)fluoranthene	20.74	252	1797	0.18	ng	# 89
25) Benzo(a)pyrene	21.32	252	2349	0.27	ng	# 90
26) Dibenzo(a,h)anthracene	23.73	278	403	0.05	ng	# 58
27) Benzo(g,h,i)perylene	24.26	276	6360	0.17	ng	# 88

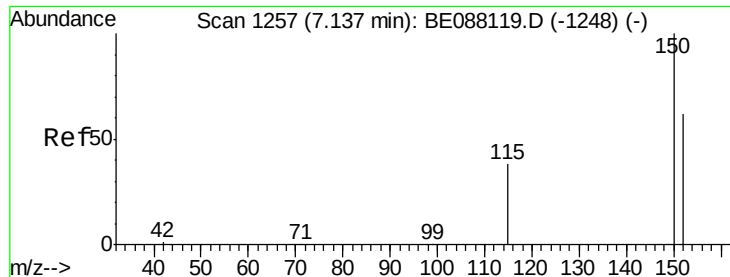
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE088167.D

Acq: 22 Oct 2014 6:19

Instrument :

BNA_E

ClientSampleId :

YS19-SB25-1014DL

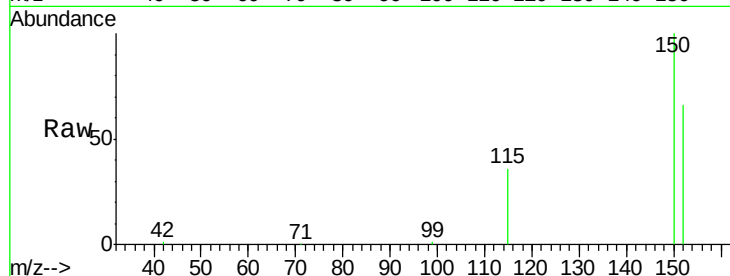
Tgt Ion:152 Resp: 21356

Ion Ratio Lower Upper

152 100

150 152.4 129.2 193.8

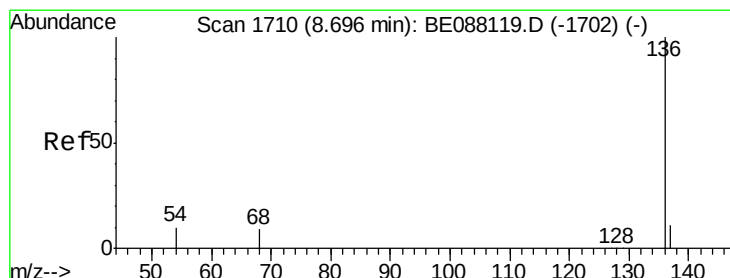
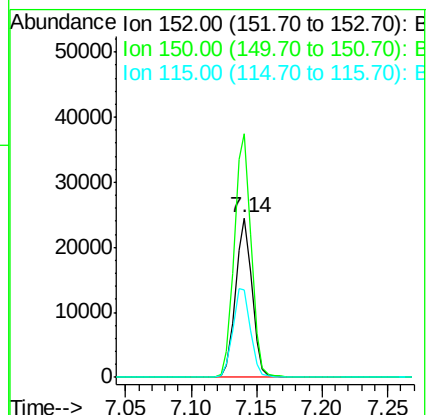
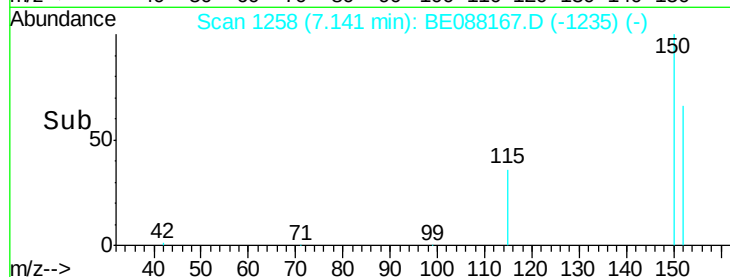
115 55.1 49.3 73.9



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



#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.70 min Scan# 1711

Delta R.T. 0.00 min

Lab File: BE088167.D

Acq: 22 Oct 2014 6:19

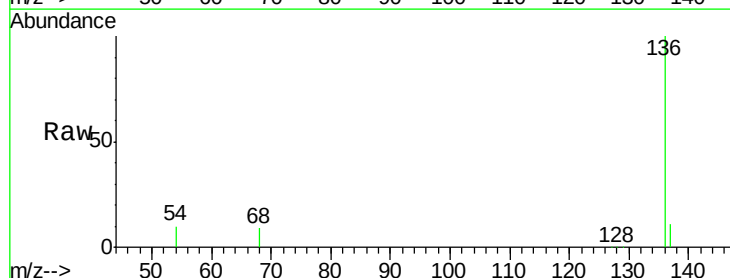
Tgt Ion:136 Resp: 83943

Ion Ratio Lower Upper

136 100

137 10.5 8.6 12.8

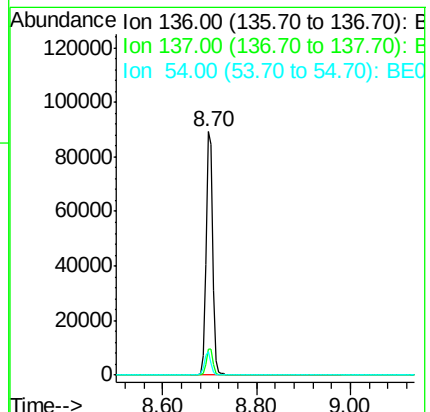
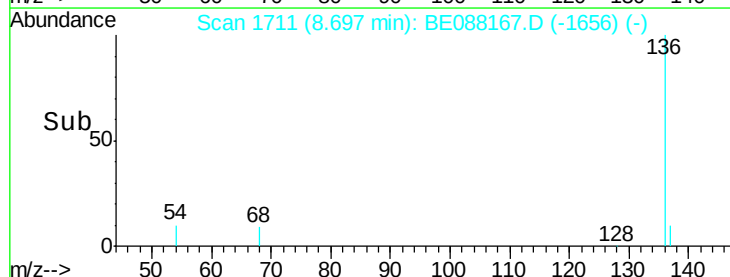
54 9.8 7.7 11.5

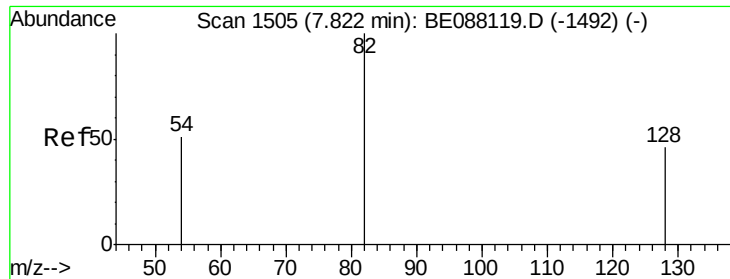


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#4

Nitrobenzene-d5

Concen: 10.15 ng

RT: 7.83 min Scan# 1507

Delta R.T. 0.00 min

Lab File: BE088167.D

Acq: 22 Oct 2014 6:19

Instrument :

BNA_E

ClientSampleId :

YS19-SB25-1014DL

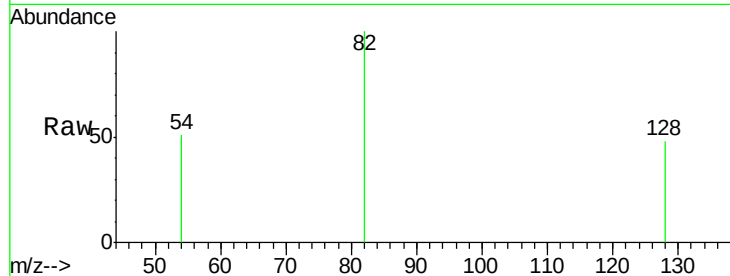
Tgt Ion: 82 Resp: 61434

Ion Ratio Lower Upper

82 100

128 47.6 37.1 55.7

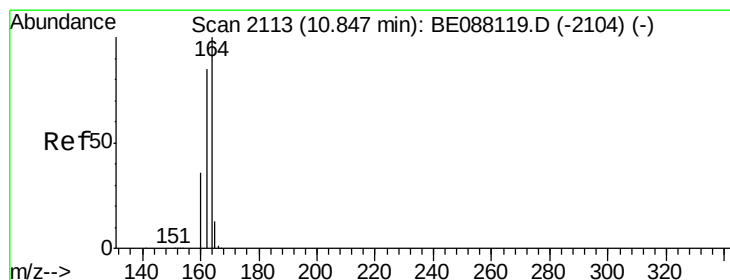
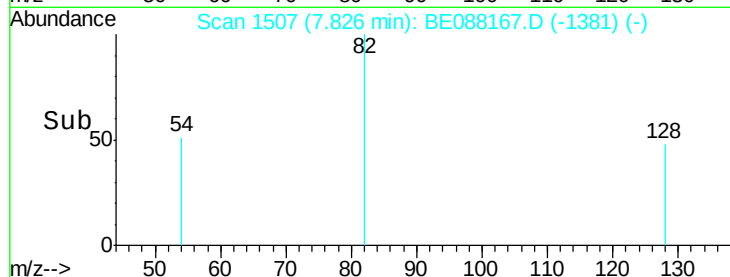
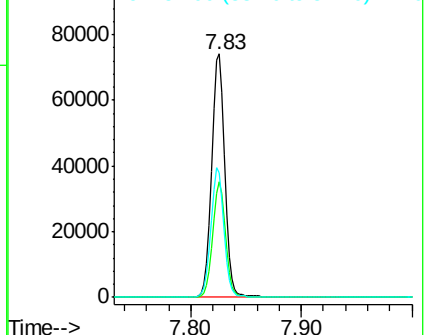
54 51.0 41.1 61.7



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.85 min Scan# 2114

Delta R.T. 0.00 min

Lab File: BE088167.D

Acq: 22 Oct 2014 6:19

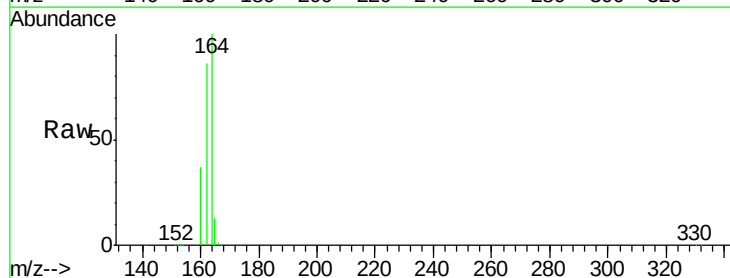
Tgt Ion: 164 Resp: 44411

Ion Ratio Lower Upper

164 100

162 86.0 68.3 102.5

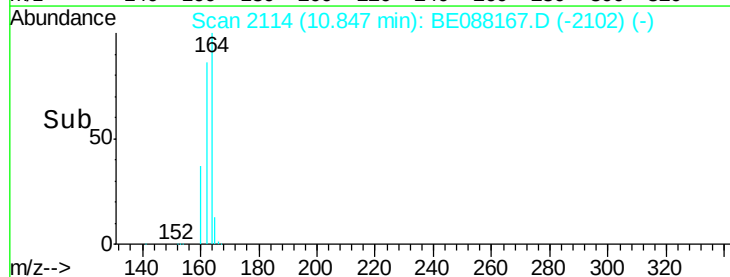
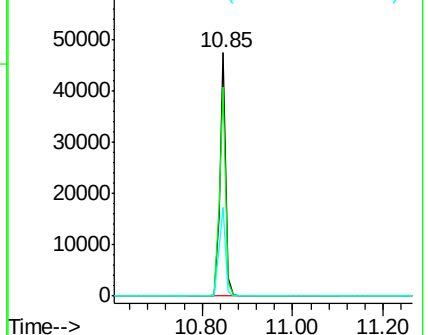
160 36.6 28.7 43.1

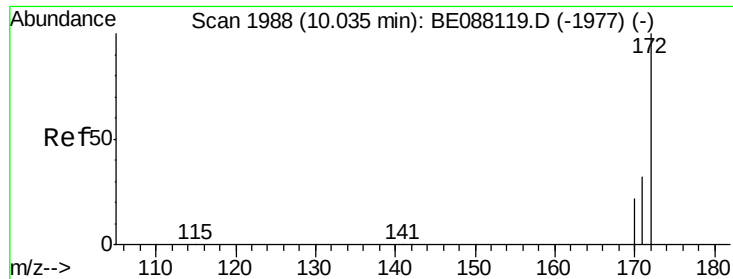


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

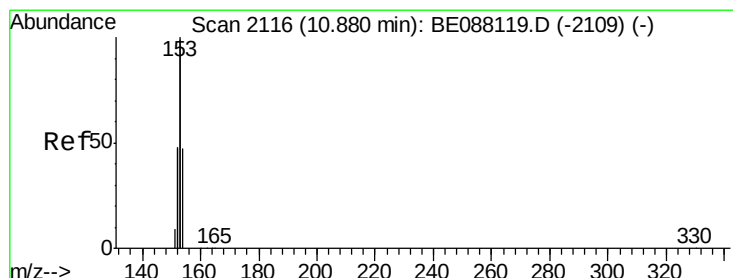
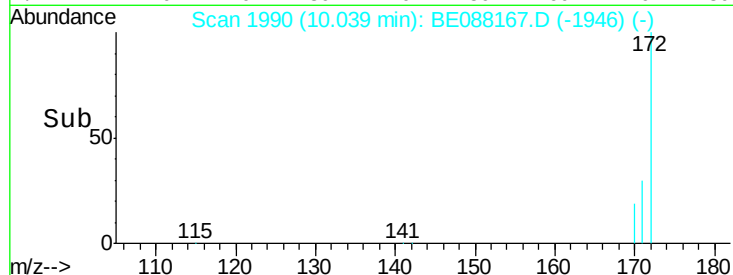
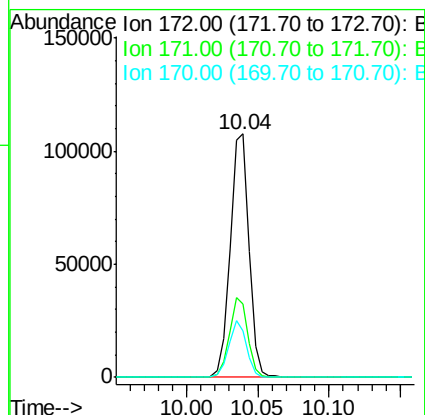
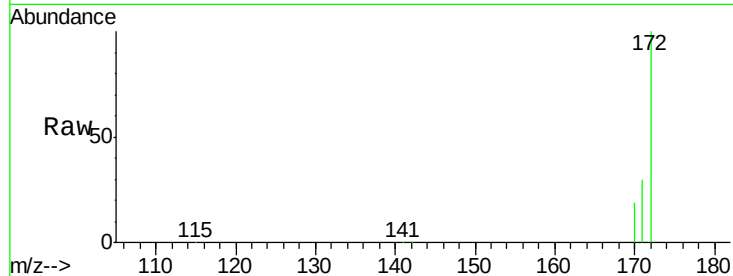




#8
2-Fluorobiphenyl
Concen: 8.11 ng
RT: 10.04 min Scan# 1990
Delta R.T. 0.00 min
Lab File: BE088167.D
Acq: 22 Oct 2014 6:19

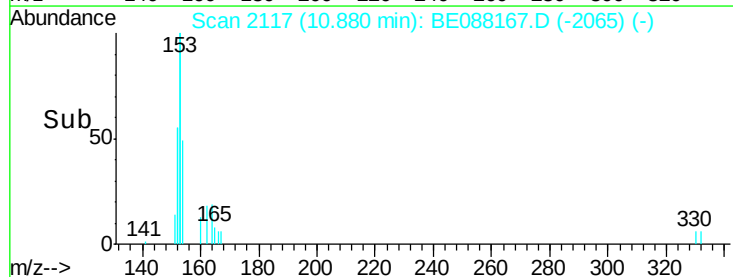
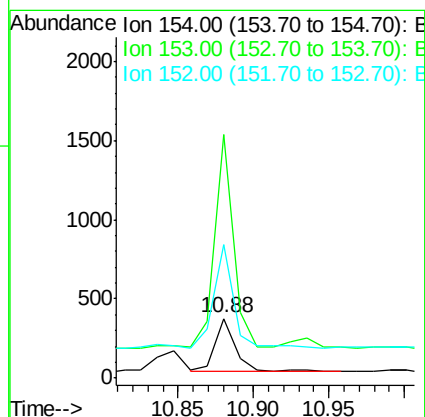
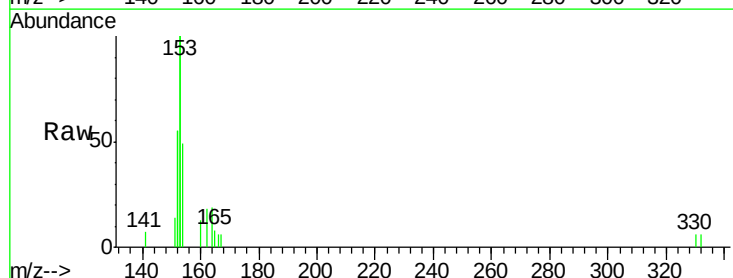
Instrument :
BNA_E
ClientSampleId :
YS19-SB25-1014DL

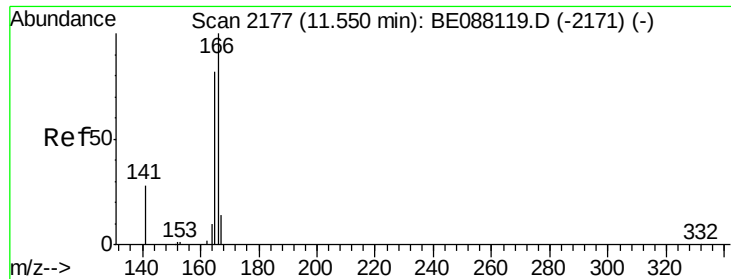
Tgt Ion:172 Resp: 99484
Ion Ratio Lower Upper
172 100
171 30.1 25.4 38.2
170 19.3 17.4 26.2



#10
Acenaphthene
Concen: 0.03 ng
RT: 10.88 min Scan# 2117
Delta R.T. 0.00 min
Lab File: BE088167.D
Acq: 22 Oct 2014 6:19

Tgt Ion:154 Resp: 294
Ion Ratio Lower Upper
154 100
153 383.7 327.8 491.6
152 198.0 157.6 236.4





#11

Fluorene

Concen: 0.04 ng

RT: 11.55 min Scan# 2178

Delta R.T. 0.00 min

Lab File: BE088167.D

Acq: 22 Oct 2014 6:19

Instrument :

BNA_E

ClientSampleId :

YS19-SB25-1014DL

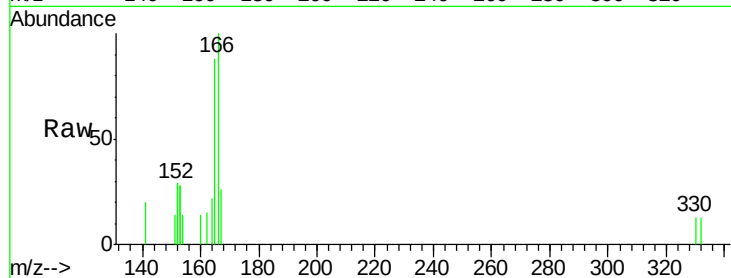
Tgt Ion:166 Resp: 399

Ion Ratio Lower Upper

166 100

165 93.2 71.4 107.2

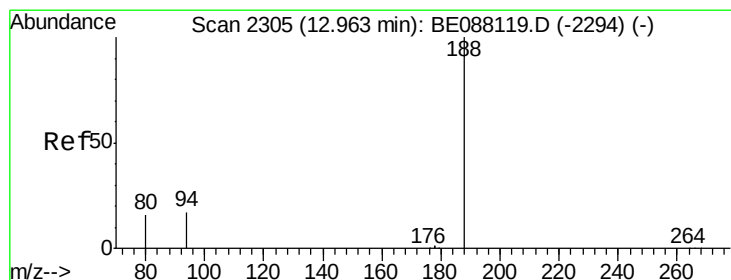
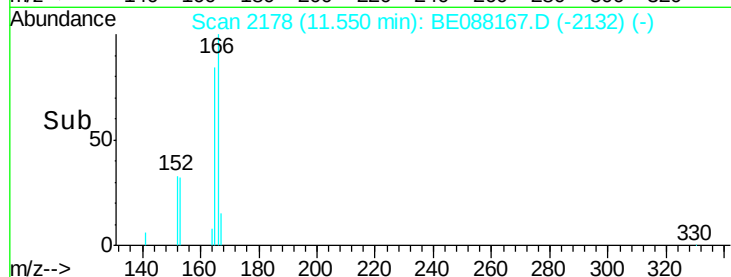
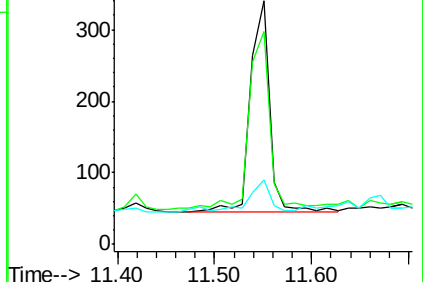
167 14.3 10.6 16.0



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# 2306

Delta R.T. -0.00 min

Lab File: BE088167.D

Acq: 22 Oct 2014 6:19

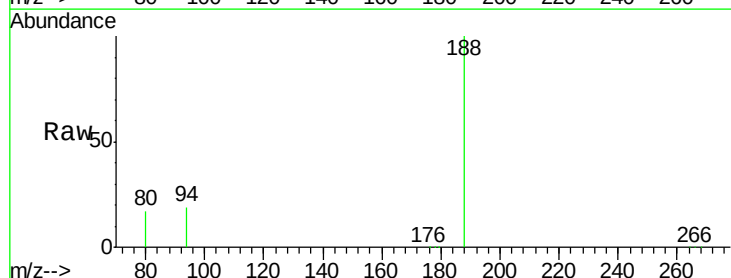
Tgt Ion:188 Resp: 86140

Ion Ratio Lower Upper

188 100

94 18.5 13.9 20.9

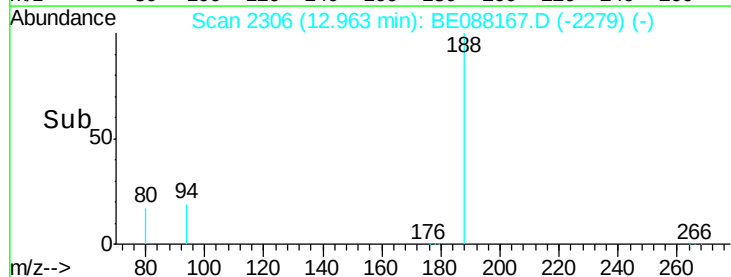
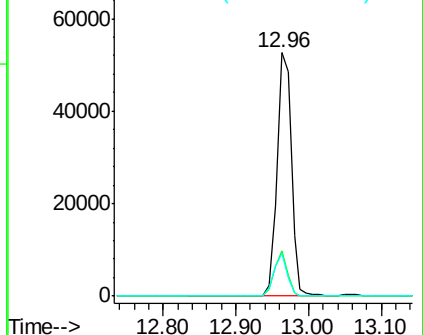
80 17.3 12.9 19.3

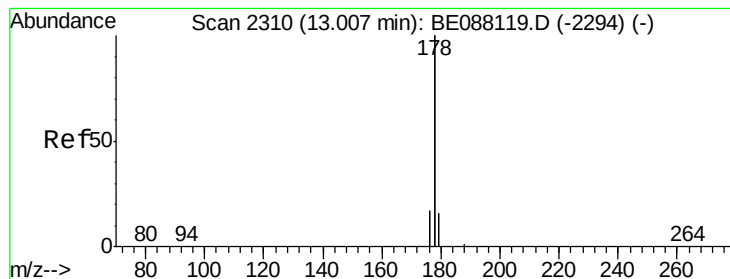


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 0.24 ng

RT: 13.01 min Scan# 2311

Delta R.T. -0.00 min

Lab File: BE088167.D

Acq: 22 Oct 2014 6:19

Instrument :

BNA_E

ClientSampleId :

YS19-SB25-1014DL

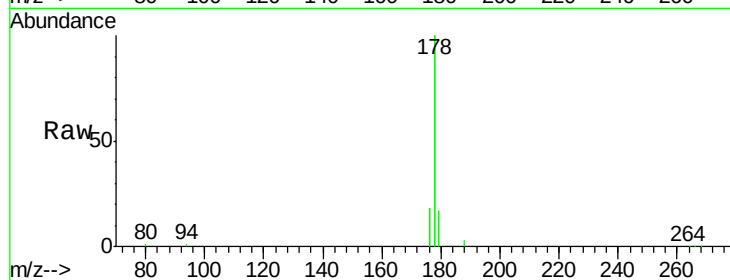
Tgt Ion:178 Resp: 28738

Ion Ratio Lower Upper

178 100

176 18.0 12.5 18.7

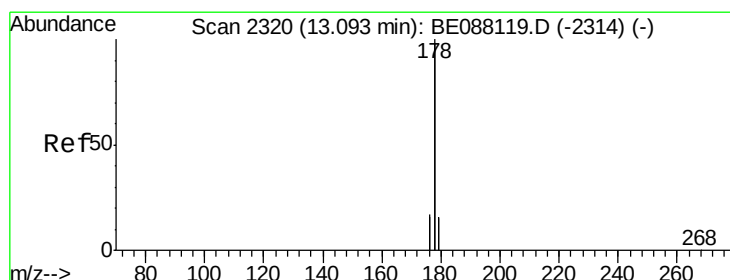
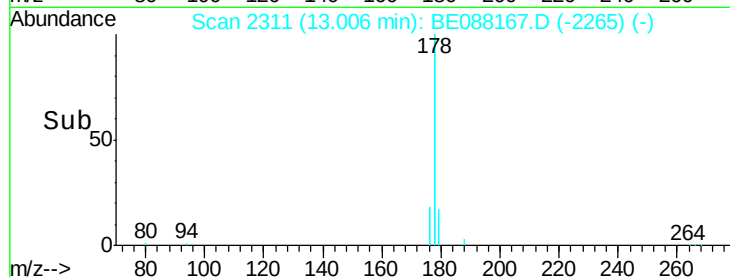
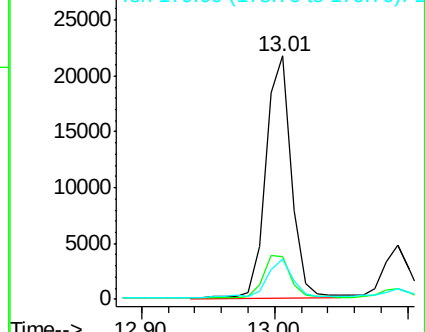
179 18.1 13.5 20.3



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: 0.43 ng

RT: 13.01 min Scan# 2311

Delta R.T. -0.09 min

Lab File: BE088167.D

Acq: 22 Oct 2014 6:19

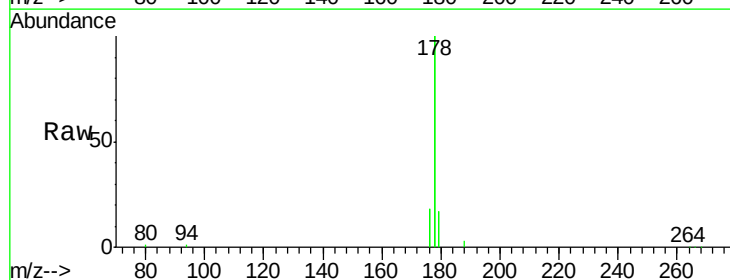
Tgt Ion:178 Resp: 28738

Ion Ratio Lower Upper

178 100

176 18.0 14.6 21.8

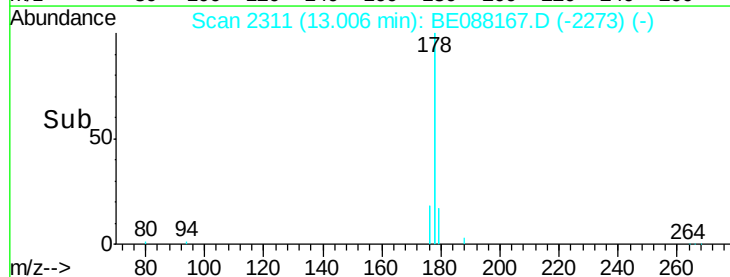
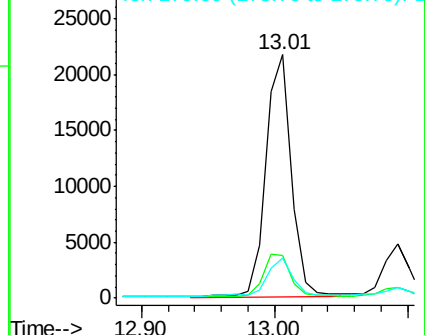
179 18.1 12.5 18.7

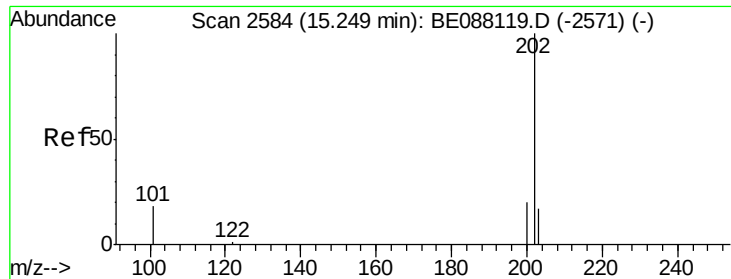


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 0.66 ng

RT: 15.25 min Scan# 2585

Delta R.T. -0.00 min

Lab File: BE088167.D

Acq: 22 Oct 2014 6:19

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ClientSampleId :

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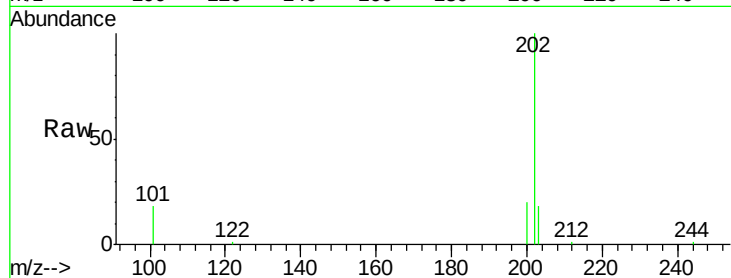
Tgt Ion: 202 Resp: 10858

Ion Ratio Lower Upper

202 100

101 18.3 14.8 22.2

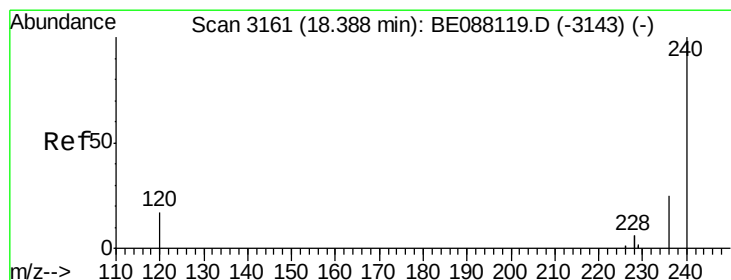
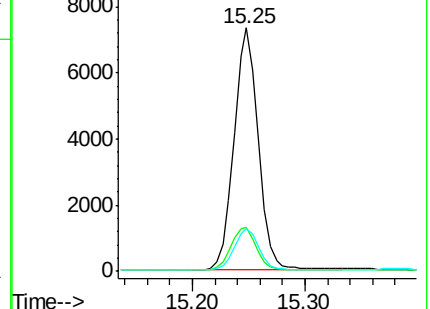
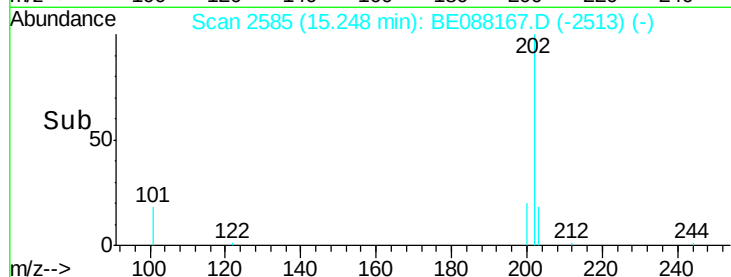
203 17.0 13.5 20.3



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: BE088167.D

Acq: 22 Oct 2014 6:19

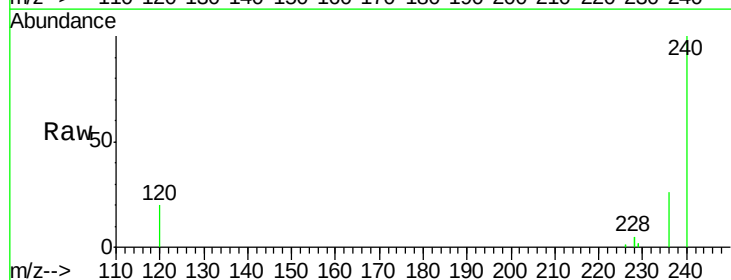
Tgt Ion: 240 Resp: 48336

Ion Ratio Lower Upper

240 100

120 19.8 13.9 20.9

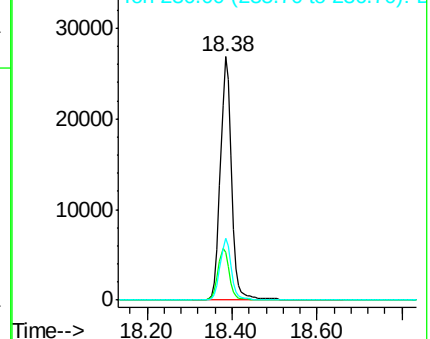
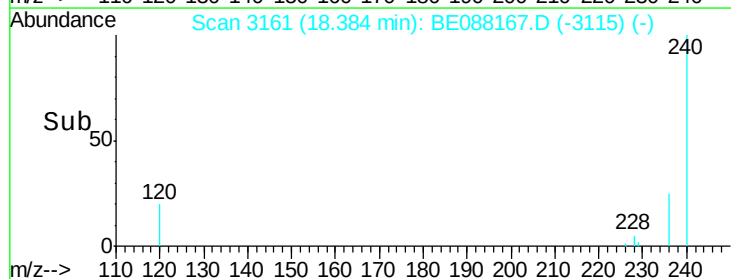
236 25.6 19.9 29.9

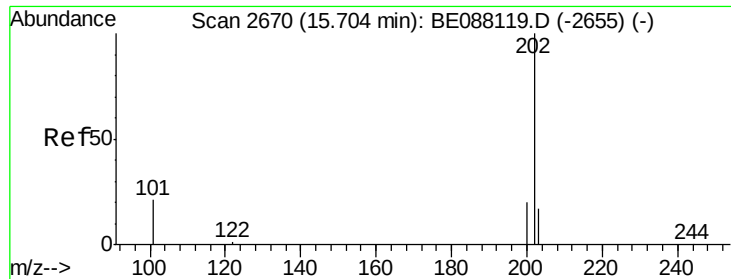


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

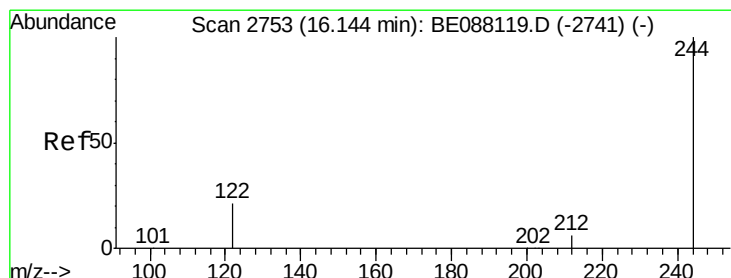
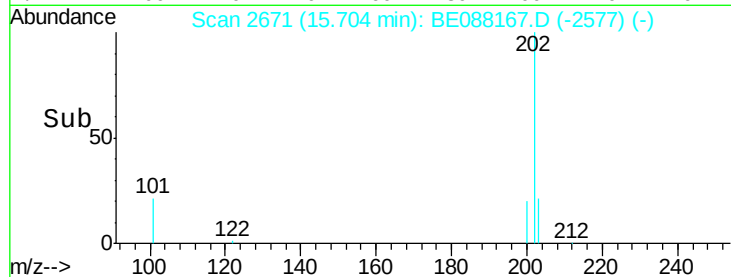
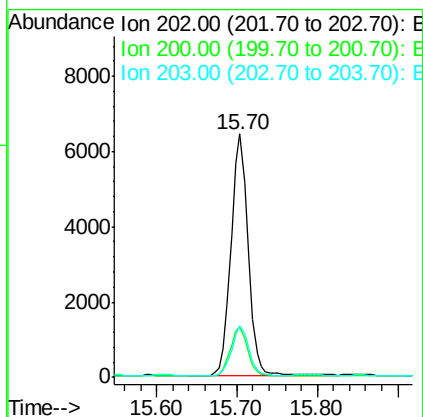
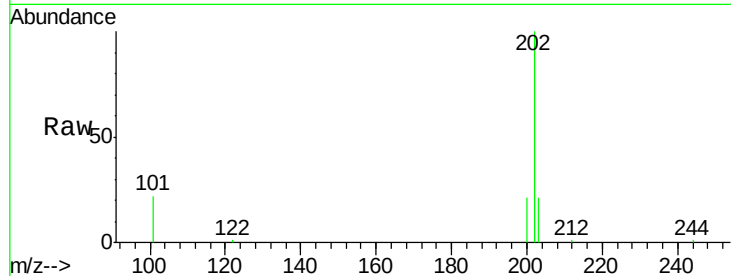




#17
 Pyrene
 Concen: 0.73 ng
 RT: 15.70 min Scan# 2671
 Delta R.T. -0.00 min
 Lab File: BE088167.D
 Acq: 22 Oct 2014 6:19

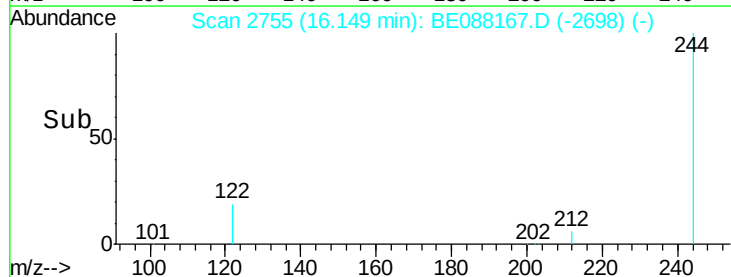
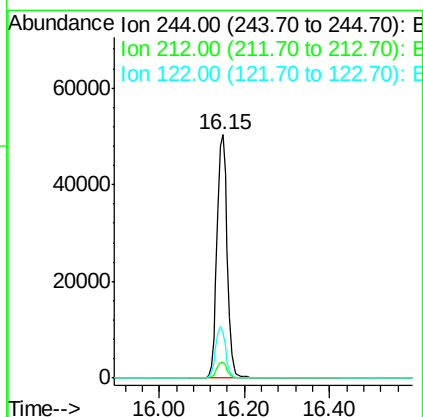
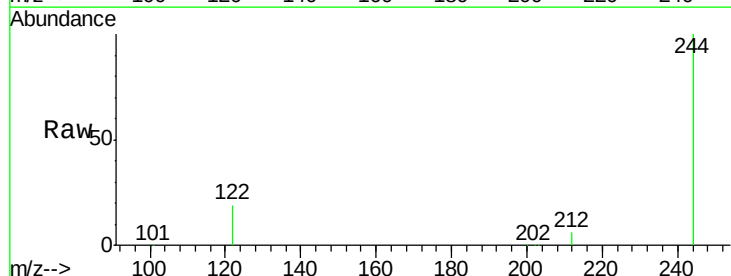
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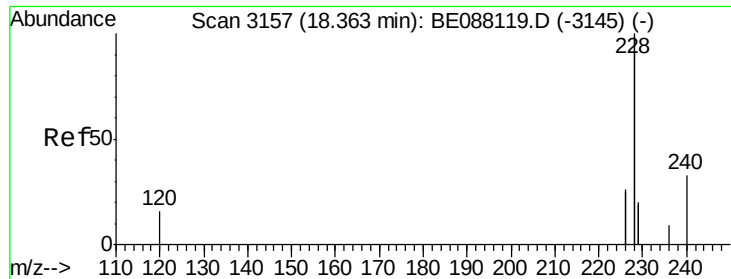
Tgt Ion: 202 Resp: 9532
 Ion Ratio Lower Upper
 202 100
 200 20.3 16.1 24.1
 203 20.3 13.9 20.9



#18
 Terphenyl-d14
 Concen: 10.45 ng
 RT: 16.15 min Scan# 2755
 Delta R.T. 0.00 min
 Lab File: BE088167.D
 Acq: 22 Oct 2014 6:19

Tgt Ion: 244 Resp: 81306
 Ion Ratio Lower Upper
 244 100
 212 6.3 5.4 8.0
 122 18.7 17.5 26.3





#19

Benzo(a)anthracene

Concen: 0.38 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088167.D

Acq: 22 Oct 2014 6:19

Instrument :

BNA_E

ClientSampleId :

YS19-SB25-1014DL

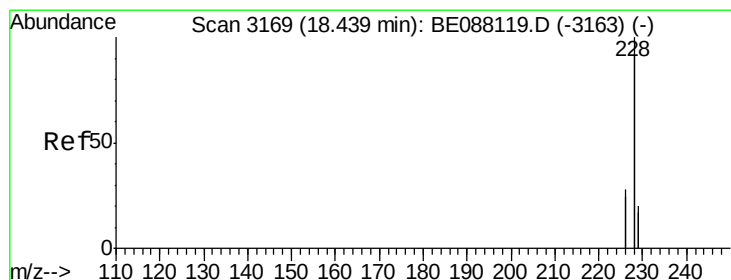
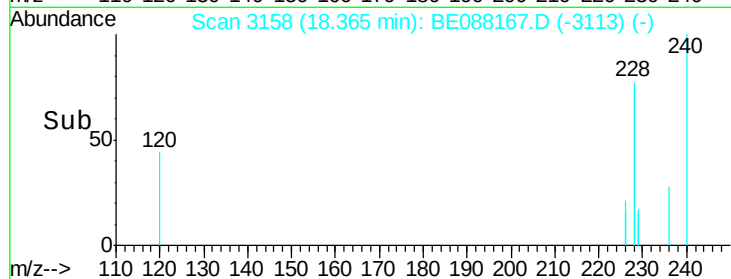
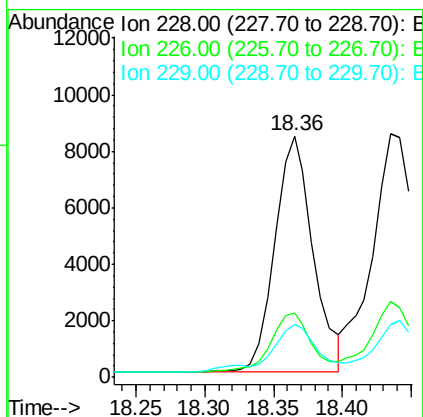
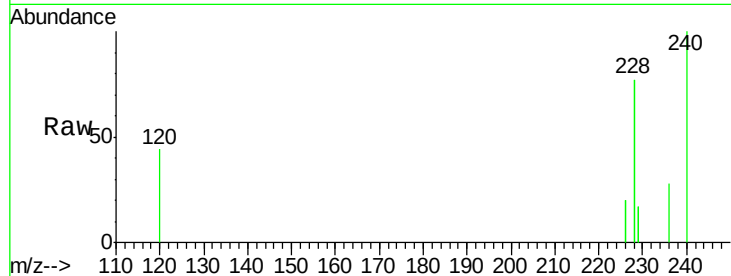
Tgt Ion:228 Resp: 16148

Ion Ratio Lower Upper

228 100

226 26.7 20.8 31.2

229 21.9 15.6 23.4



#20

Chrysene

Concen: 0.45 ng

RT: 18.44 min Scan# 3169

Delta R.T. -0.00 min

Lab File: BE088167.D

Acq: 22 Oct 2014 6:19

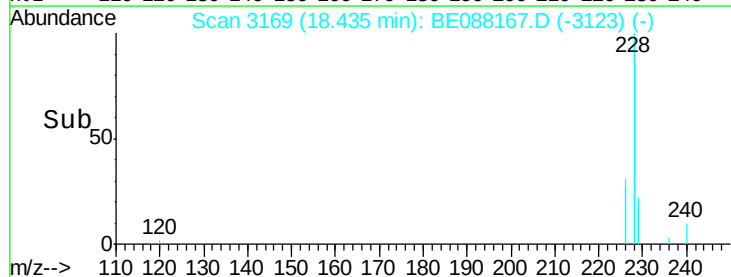
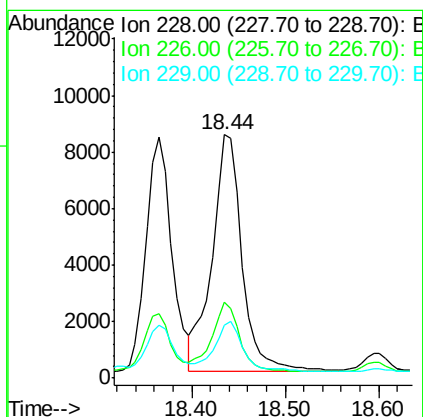
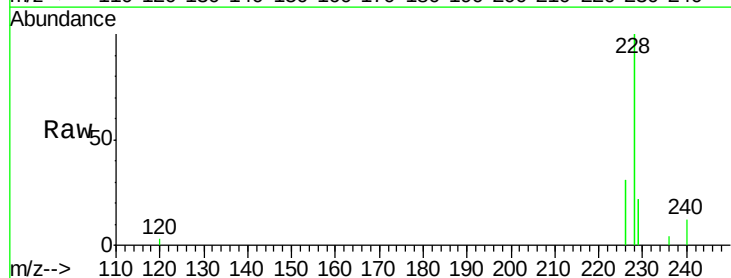
Tgt Ion:228 Resp: 18871

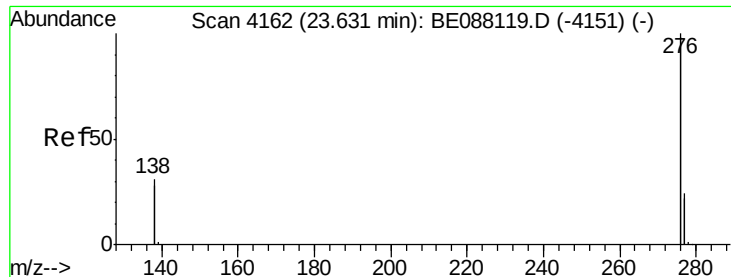
Ion Ratio Lower Upper

228 100

226 31.1 22.7 34.1

229 21.8 15.8 23.6





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.14 ng

RT: 23.63 min Scan# 4163

Delta R.T. -0.00 min

Lab File: BE088167.D

Acq: 22 Oct 2014 6:19

Instrument :

BNA_E

ClientSampleId :

YS19-SB25-1014DL

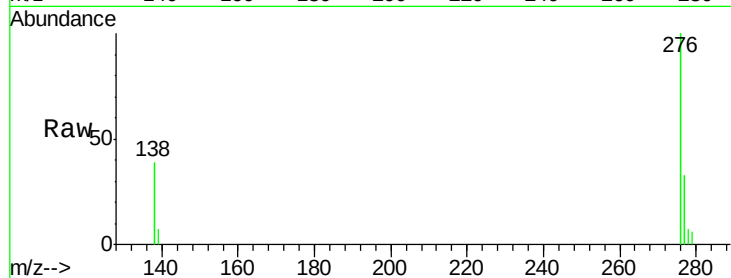
Tgt Ion: 276 Resp: 6598

Ion Ratio Lower Upper

276 100

138 24.7 18.5 27.7

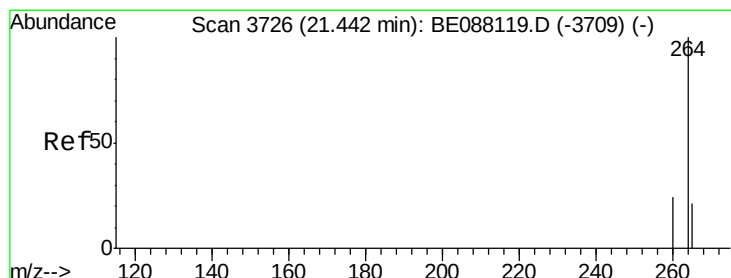
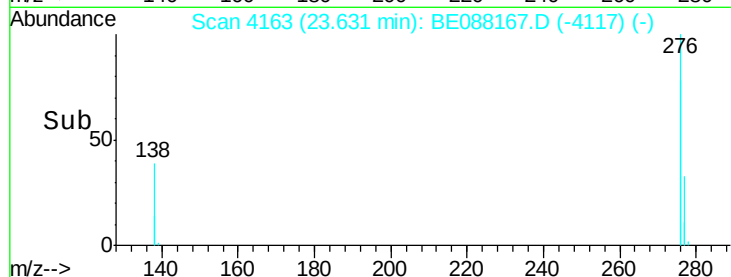
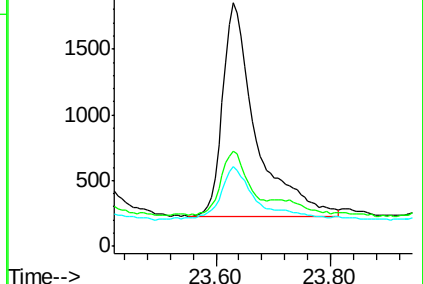
277 24.5 14.6 21.8#



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# 3727

Delta R.T. -0.00 min

Lab File: BE088167.D

Acq: 22 Oct 2014 6:19

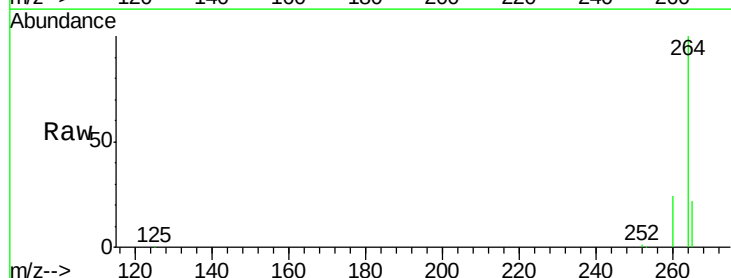
Tgt Ion: 264 Resp: 39918

Ion Ratio Lower Upper

264 100

260 23.6 19.0 28.4

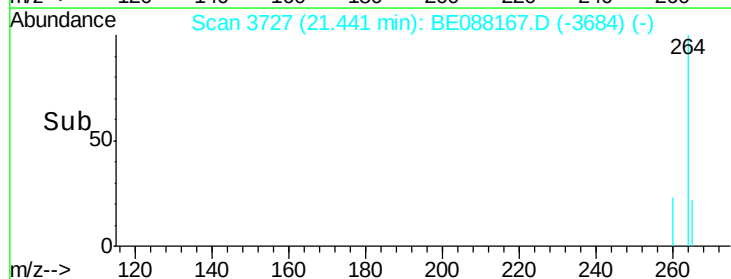
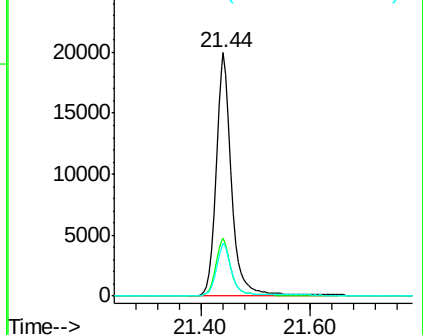
265 21.8 17.2 25.8

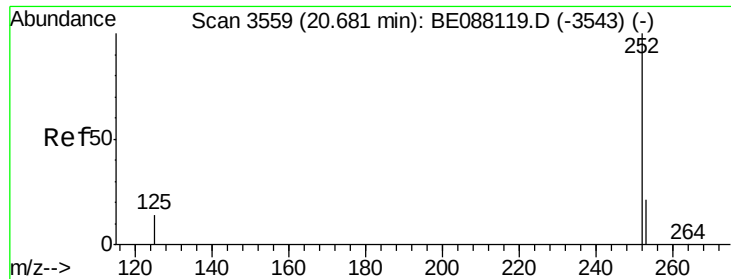


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 0.35 ng

RT: 20.69 min Scan# 3561

Delta R.T. 0.00 min

Lab File: BE088167.D

Acq: 22 Oct 2014 6:19

Instrument :

BNA_E

ClientSampleId :

YS19-SB25-1014DL

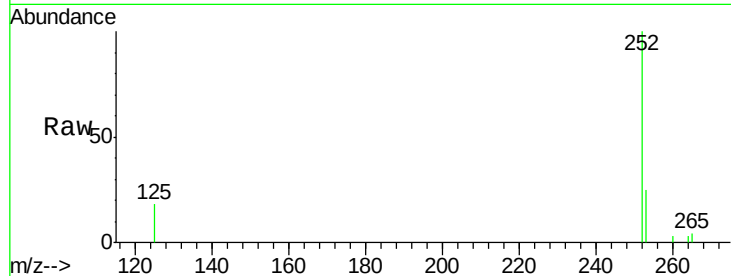
Tgt Ion: 252 Resp: 3330

Ion Ratio Lower Upper

252 100

253 25.0 17.4 26.0

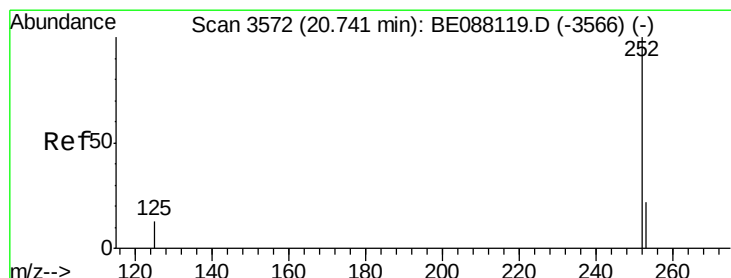
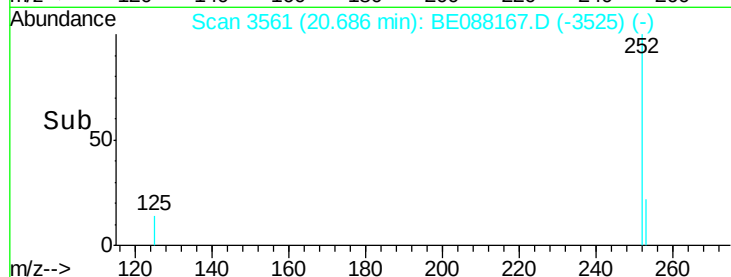
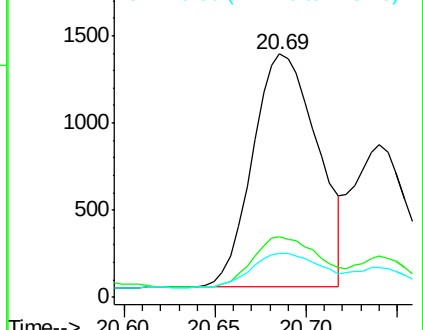
125 18.1 11.8 17.8#



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: 0.18 ng

RT: 20.74 min Scan# 3573

Delta R.T. -0.00 min

Lab File: BE088167.D

Acq: 22 Oct 2014 6:19

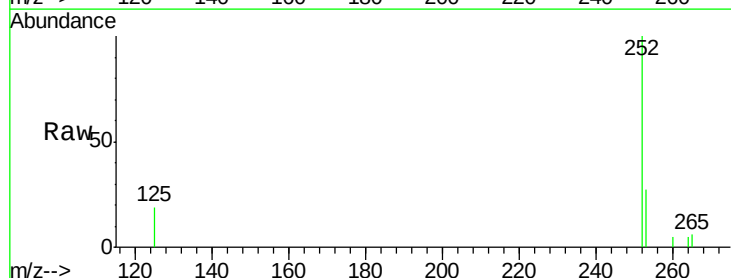
Tgt Ion: 252 Resp: 1797

Ion Ratio Lower Upper

252 100

253 27.1 17.6 26.4#

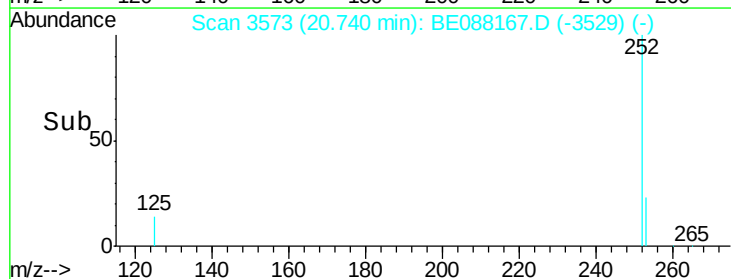
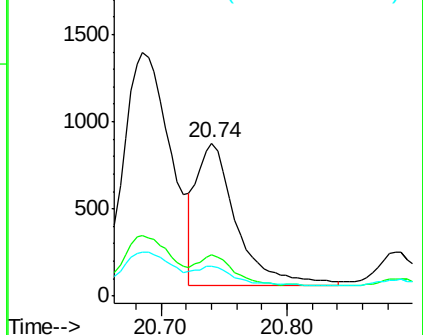
125 19.5 11.5 17.3#

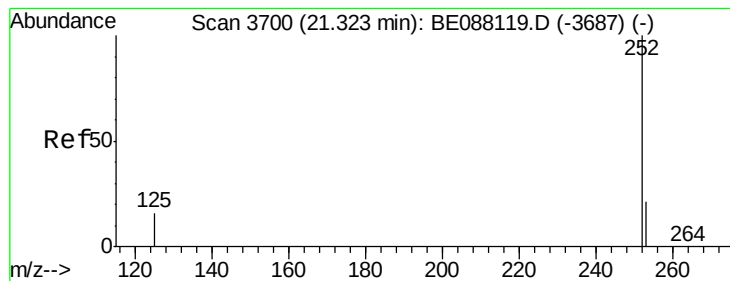


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 0.27 ng

RT: 21.32 min Scan# 3701

Delta R.T. -0.00 min

Lab File: BE088167.D

Acq: 22 Oct 2014 6:19

Instrument :

BNA_E

ClientSampleId :

YS19-SB25-1014DL

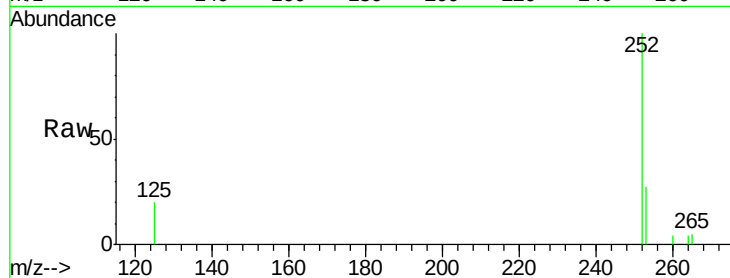
Tgt Ion: 252 Resp: 2349

Ion Ratio Lower Upper

252 100

253 27.1 17.5 26.3#

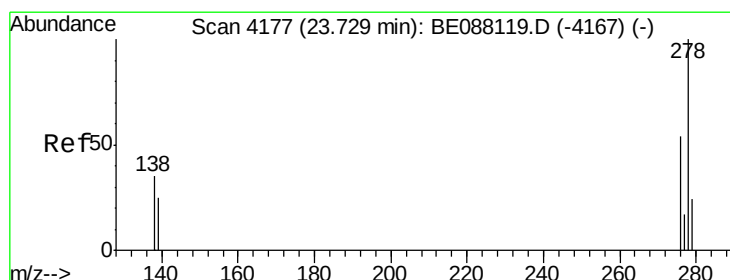
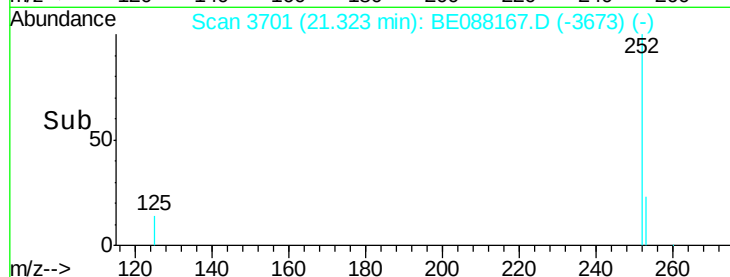
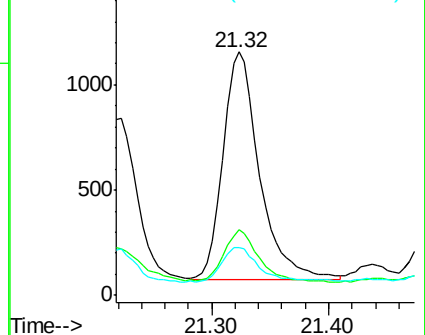
125 19.6 13.0 19.6#



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: 0.05 ng

RT: 23.73 min Scan# 4178

Delta R.T. -0.00 min

Lab File: BE088167.D

Acq: 22 Oct 2014 6:19

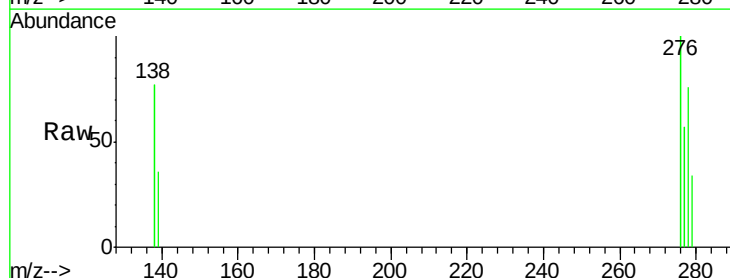
Tgt Ion: 278 Resp: 403

Ion Ratio Lower Upper

278 100

139 48.0 20.9 31.3#

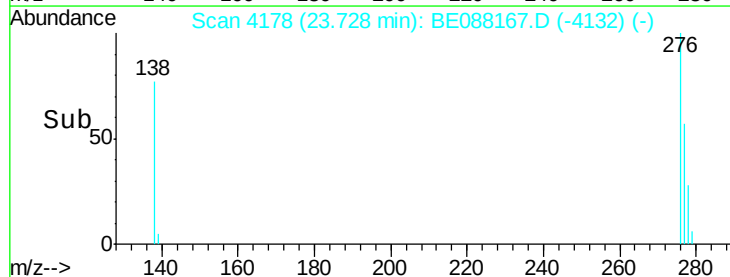
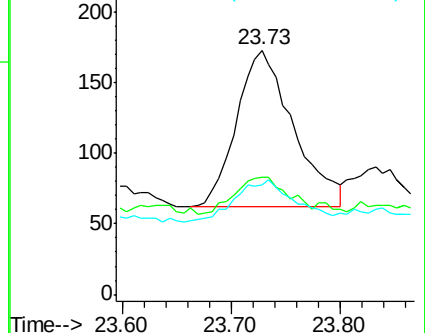
279 45.1 19.8 29.8#

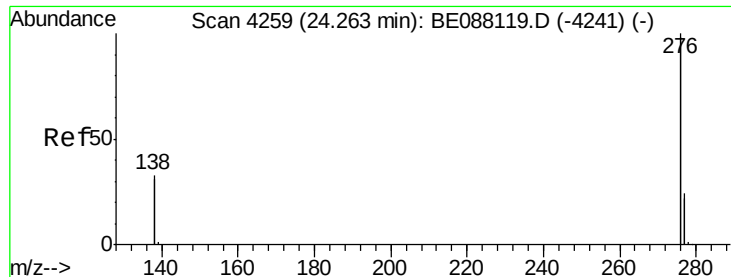


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.17 ng

RT: 24.26 min Scan# 4260

Delta R.T. -0.00 min

Lab File: BE088167.D

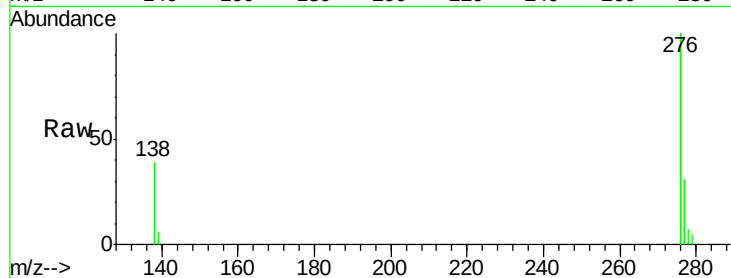
Acq: 22 Oct 2014 6:19

Instrument :

BNA_E

ClientSampleId :

YS19-SB25-1014DL



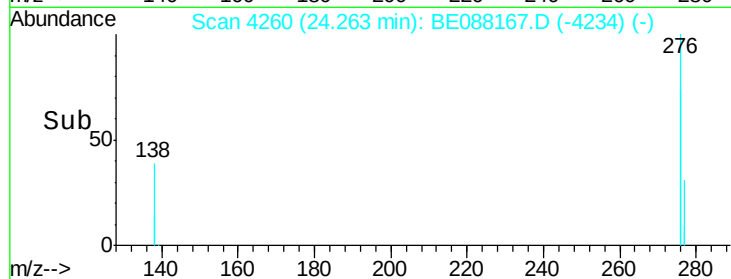
Tgt Ion: 276 Resp: 6360

Ion Ratio Lower Upper

276 100

277 31.0 19.2 28.8#

138 39.1 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

