

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088443.D
 Acq On : 1 Nov 2014 3:39
 Operator : TP/JJ
 Sample : F4379-16
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS38P-1014

Quant Time: Nov 01 05:30:13 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

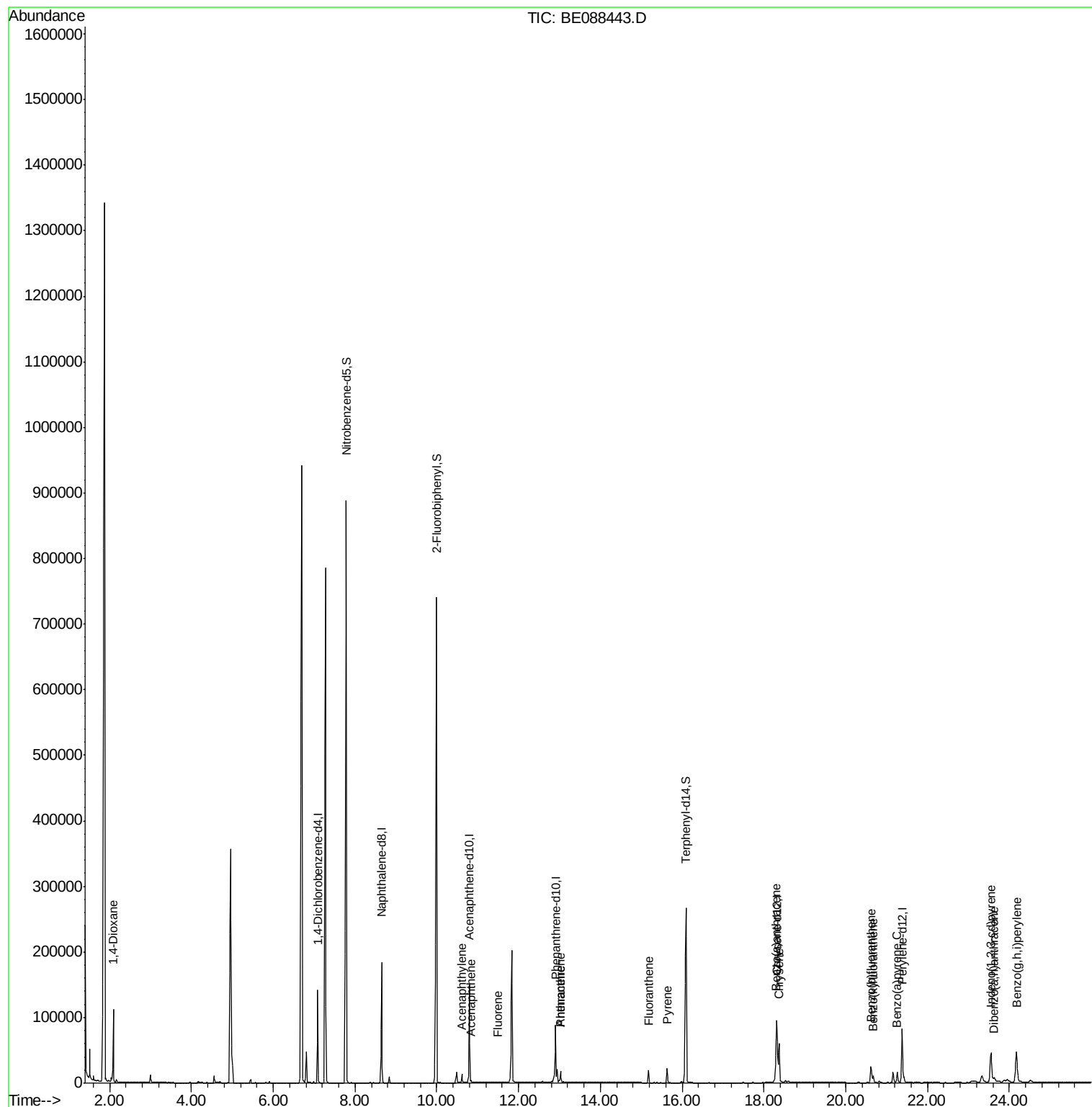
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	45546	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	162016	5.00	ng	0.00
7) Acenaphthene-d10	10.79	164	65990	5.00	ng	0.00
12) Phenanthrene-d10	12.90	188	117329	5.00	ng	0.00
16) Chrysene-d12	18.31	240	104133	5.00	ng	0.00
22) Perylene-d12	21.38	264	109378	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.79	82	697929	58.74	ng	0.02
8) 2-Fluorobiphenyl	9.99	172	766486	41.21	ng	0.00
18) Terphenyl-d14	16.10	244	429171	22.43	ng	0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	2.09	88	3764	0.63	ng	# 1
9) Acenaphthylene	10.62	152	12530	0.12	ng	# 98
10) Acenaphthene	10.84	154	538	0.03	ng	# 61
11) Fluorene	11.50	166	686	0.04	ng	# 92
13) Phenanthrene	13.03	178	17473	0.16	ng	# 96
14) Anthracene	13.03	178	17473	0.20	ng	# 96
15) Fluoranthene	15.18	202	18662	1.08	ng	100
17) Pyrene	15.63	202	21845	0.64	ng	98
19) Benzo(a)anthracene	18.29	228	48317	0.49	ng	96
20) Chrysene	18.36	228	88349	0.92	ng	99
21) Indeno(1,2,3-cd)pyrene	23.55	276	89606	1.00	ng	# 88
23) Benzo(b)fluoranthene	20.62	252	41954	1.75	ng	98
24) Benzo(k)fluoranthene	20.67	252	14510	0.55	ng	97
25) Benzo(a)pyrene	21.25	252	21364	0.93	ng	98
26) Dibenzo(a,h)anthracene	23.63	278	4330	0.20	ng	# 89
27) Benzo(g,h,i)perylene	24.17	276	91498	0.93	ng	99

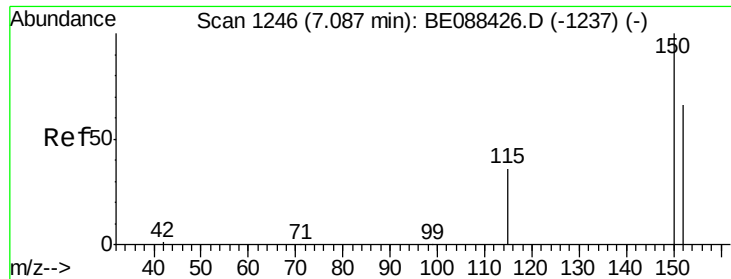
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.09 min Scan# 1246

Delta R.T. -0.00 min

Lab File: BE088443.D

Acq: 1 Nov 2014 3:39

Instrument :

BNA_E

ClientSampleId :

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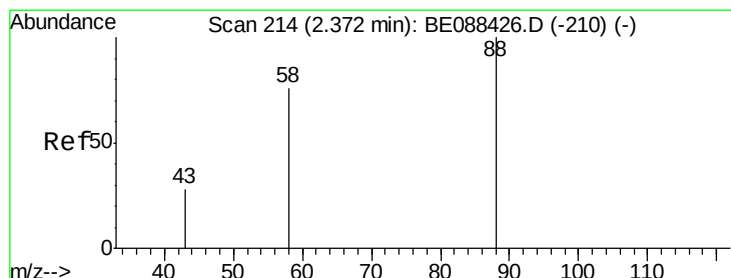
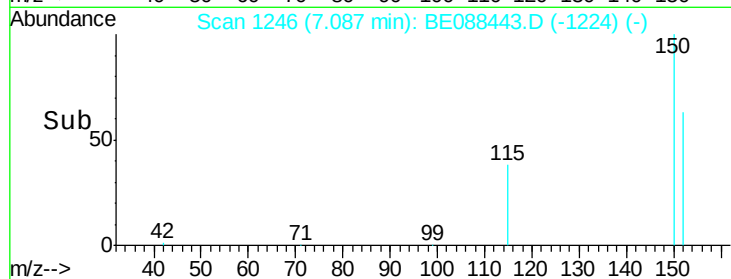
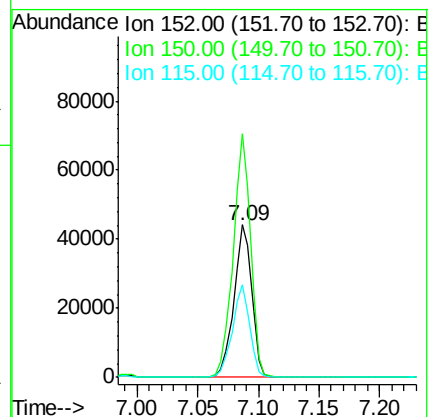
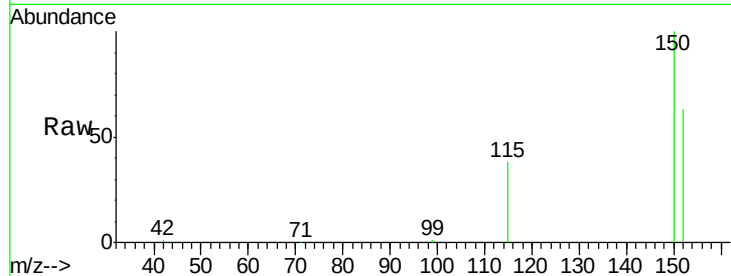
Tgt Ion:152 Resp: 45546

Ion Ratio Lower Upper

152 100

150 159.5 121.8 182.8

115 60.4 43.9 65.9



#2

1,4-Dioxane

Concen: 0.63 ng

RT: 2.09 min Scan# 152

Delta R.T. -0.28 min

Lab File: BE088443.D

Acq: 1 Nov 2014 3:39

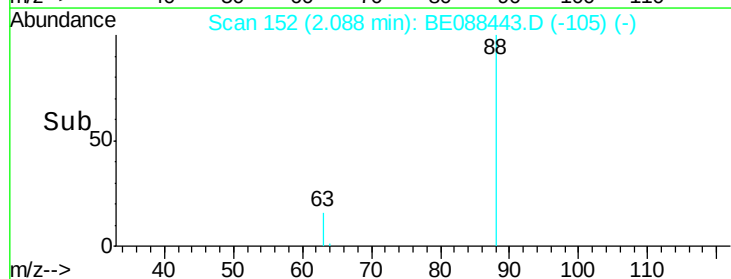
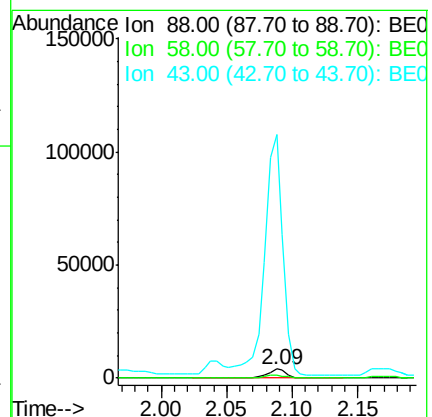
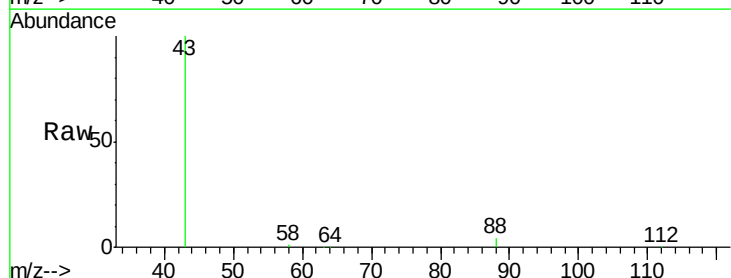
Tgt Ion: 88 Resp: 3764

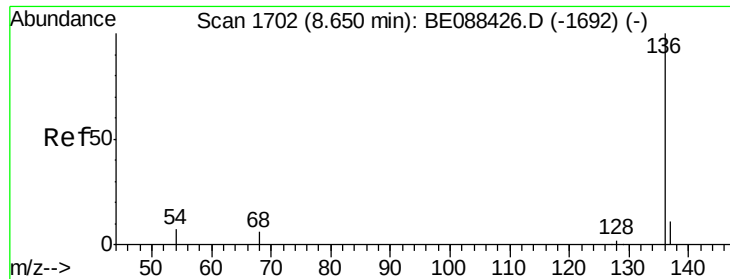
Ion Ratio Lower Upper

88 100

58 25.5 59.1 88.7#

43 2717.7 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: BE088443.D

Acq: 1 Nov 2014 3:39

Instrument :

BNA_E

ClientSampleId :

YS19-SS38P-1014

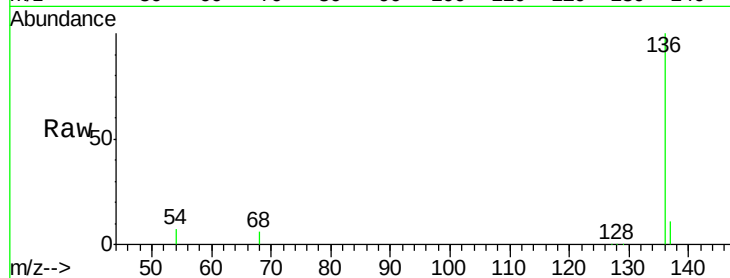
Tgt Ion: 136 Resp: 162016

Ion Ratio Lower Upper

136 100

137 11.0 8.8 13.2

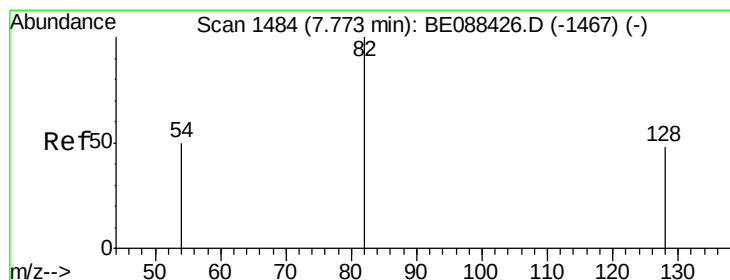
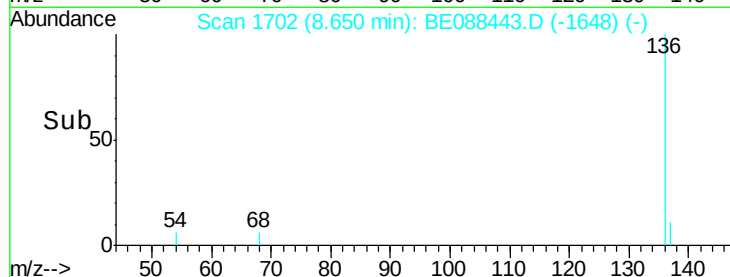
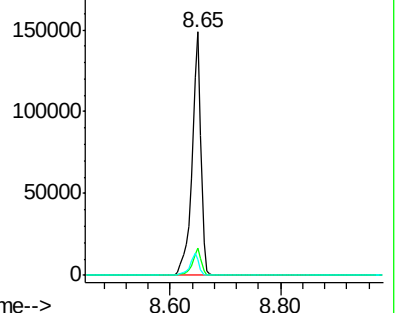
54 6.7 5.3 7.9



Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0



#4

Nitrobenzene-d5

Concen: 58.74 ng

RT: 7.79 min Scan# 1491

Delta R.T. 0.02 min

Lab File: BE088443.D

Acq: 1 Nov 2014 3:39

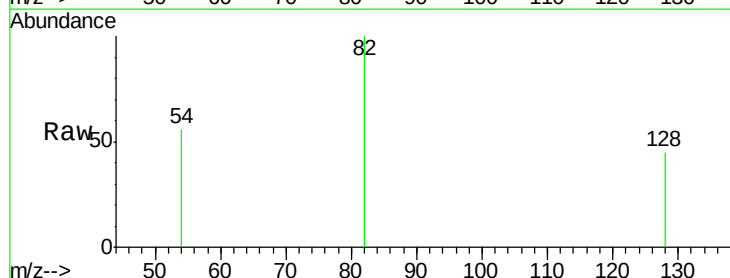
Tgt Ion: 82 Resp: 697929

Ion Ratio Lower Upper

82 100

128 45.3 38.4 57.6

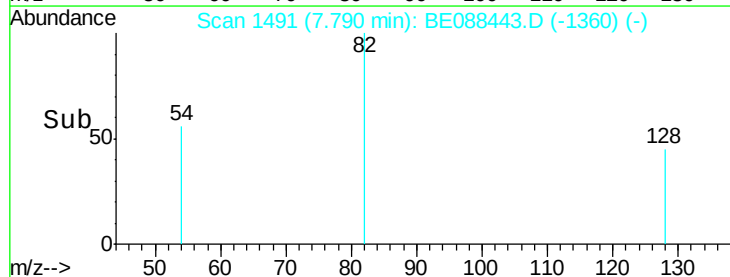
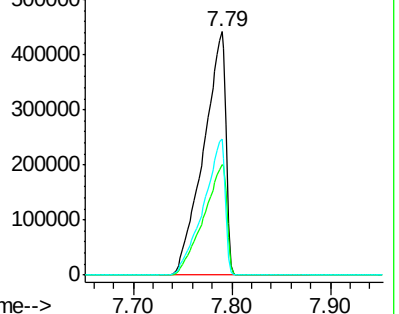
54 56.0 40.2 60.2

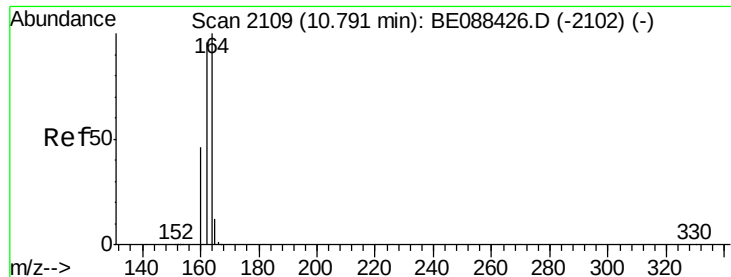


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.79 min Scan# 2109

Delta R.T. 0.00 min

Lab File: BE088443.D

Acq: 1 Nov 2014 3:39

Instrument :

BNA_E

ClientSampleId :

YS19-SS38P-1014

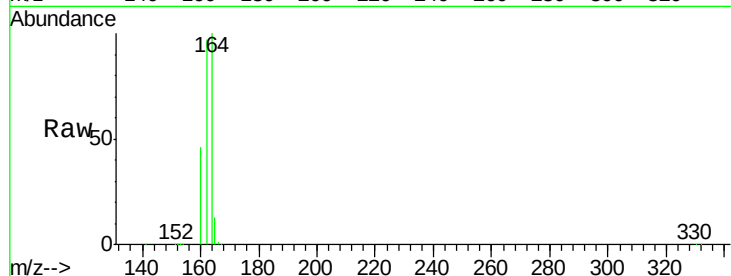
Tgt Ion:164 Resp: 65990

Ion Ratio Lower Upper

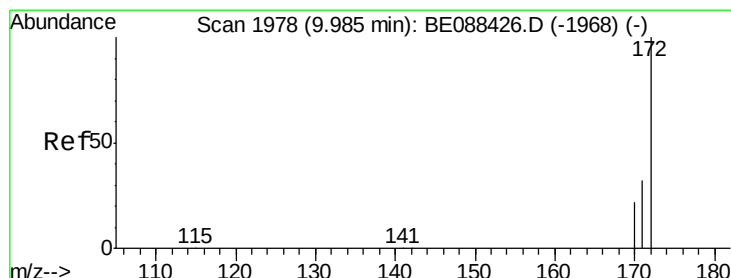
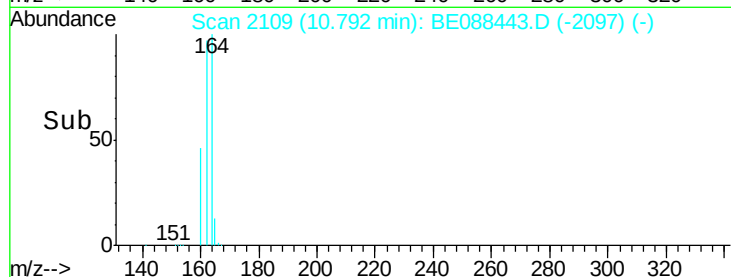
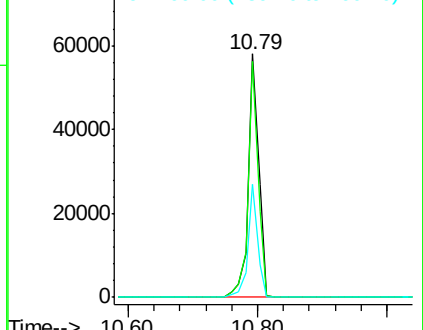
164 100

162 96.8 77.0 115.4

160 46.5 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: 41.21 ng

RT: 9.99 min Scan# 1980

Delta R.T. 0.01 min

Lab File: BE088443.D

Acq: 1 Nov 2014 3:39

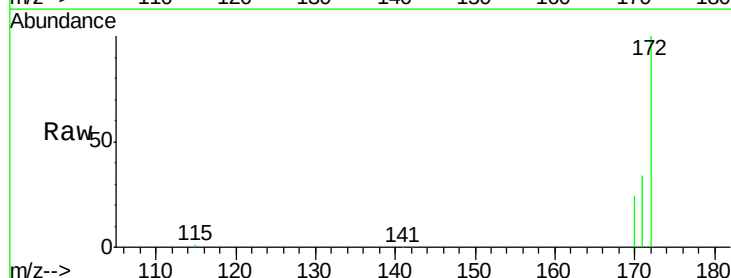
Tgt Ion:172 Resp: 766486

Ion Ratio Lower Upper

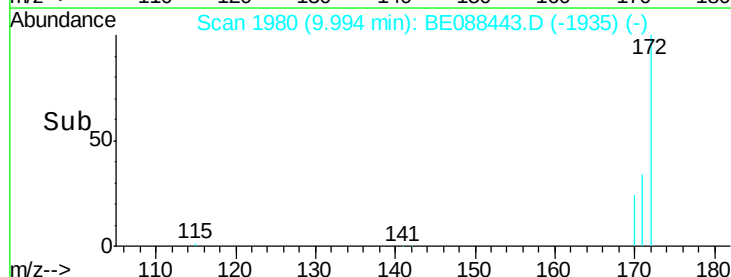
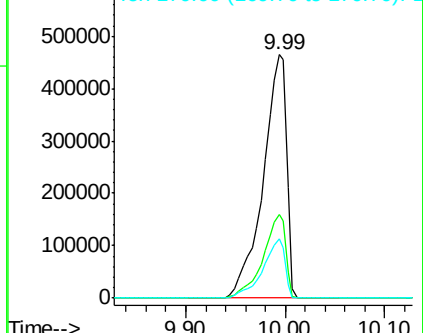
172 100

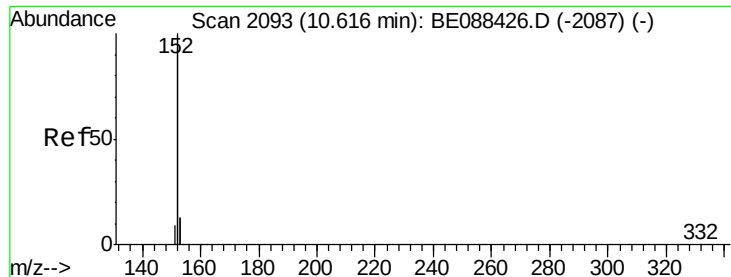
171 34.4 26.0 39.0

170 24.2 17.6 26.4



Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 0.12 ng

RT: 10.62 min Scan# 2093

Delta R.T. 0.00 min

Lab File: BE088443.D

Acq: 1 Nov 2014 3:39

Instrument :

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ClientSampleId :

YS19-SS38P-1014

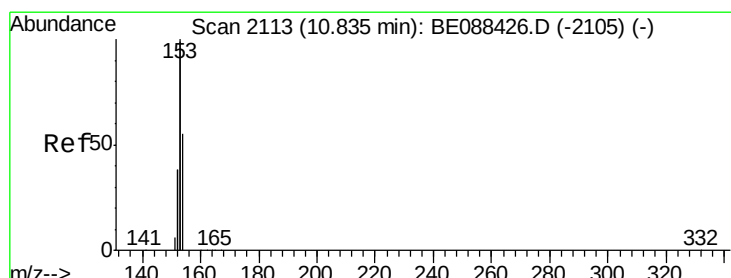
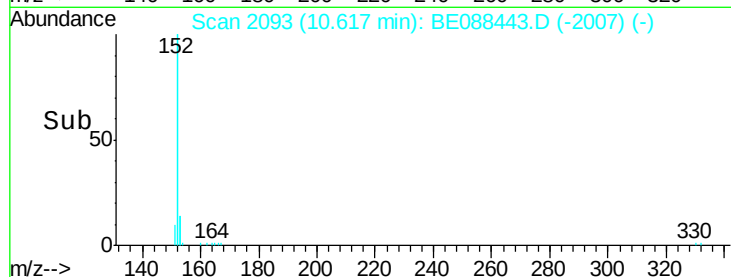
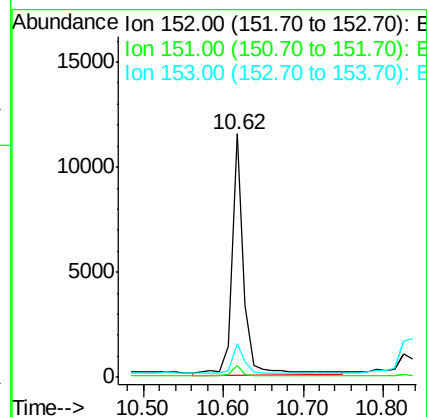
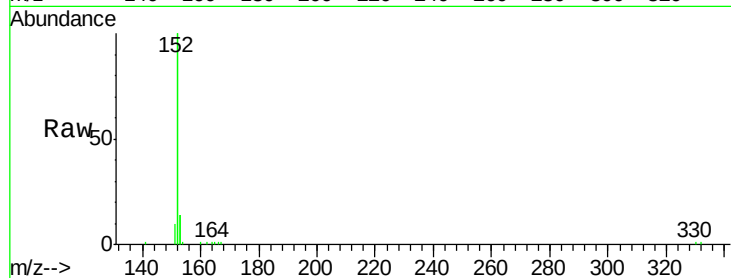
Tgt Ion:152 Resp: 12530

Ion Ratio Lower Upper

152 100

151 4.1 4.4 6.6#

153 13.5 10.5 15.7



#10

Acenaphthene

Concen: 0.03 ng

RT: 10.84 min Scan# 2113

Delta R.T. 0.00 min

Lab File: BE088443.D

Acq: 1 Nov 2014 3:39

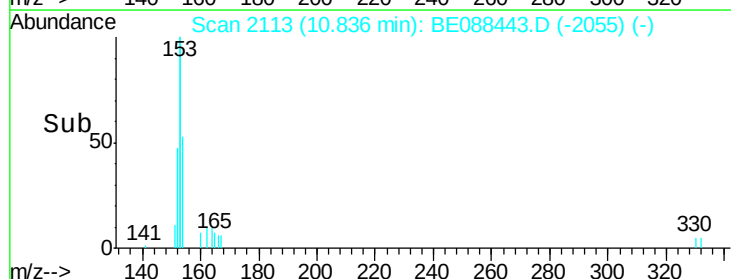
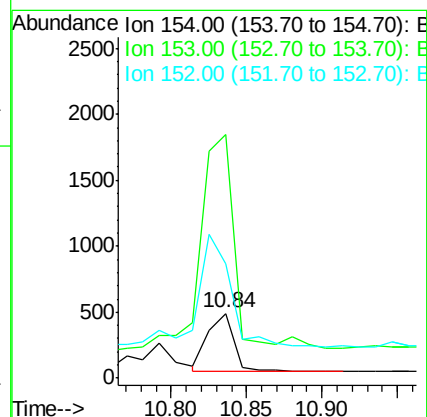
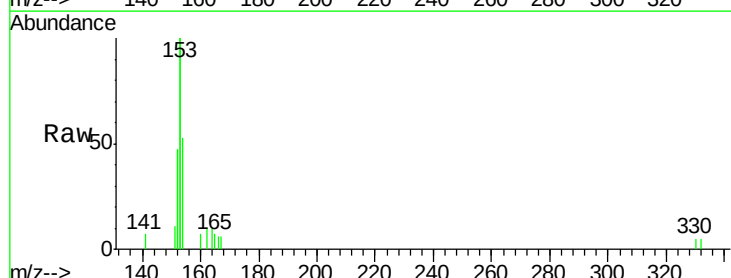
Tgt Ion:154 Resp: 538

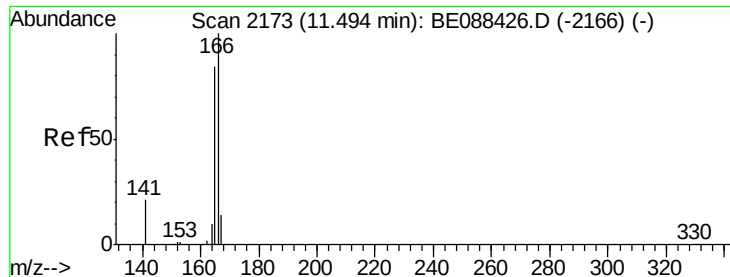
Ion Ratio Lower Upper

154 100

153 451.3 324.3 486.5

152 315.1 154.9 232.3#

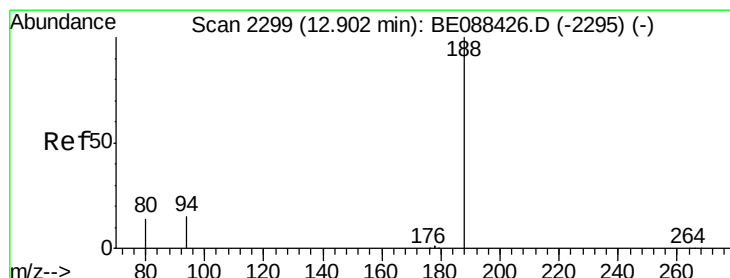
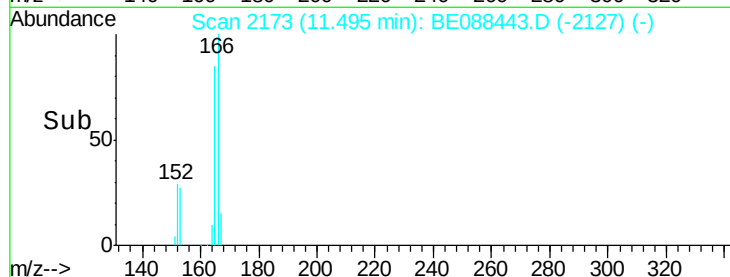
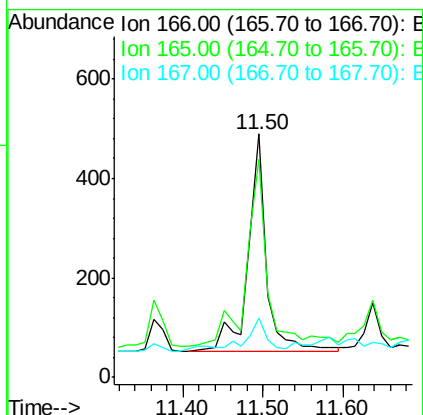
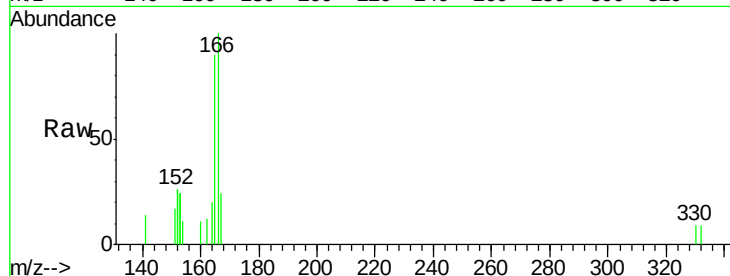




#11
Fluorene
 Concen: 0.04 ng
 RT: 11.50 min Scan# 2173
 Delta R.T. 0.00 min
 Lab File: BE088443.D
 Acq: 1 Nov 2014 3:39

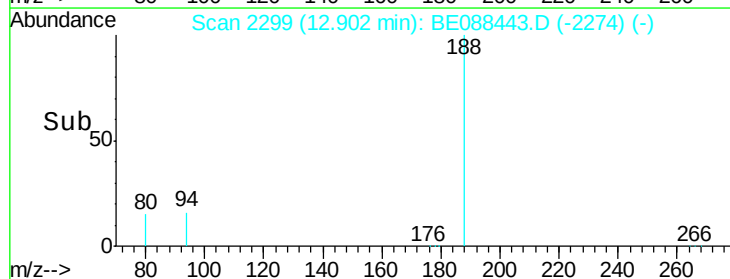
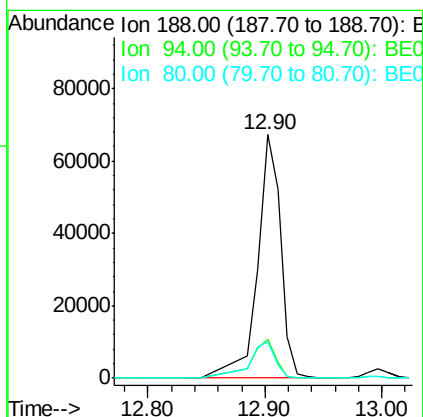
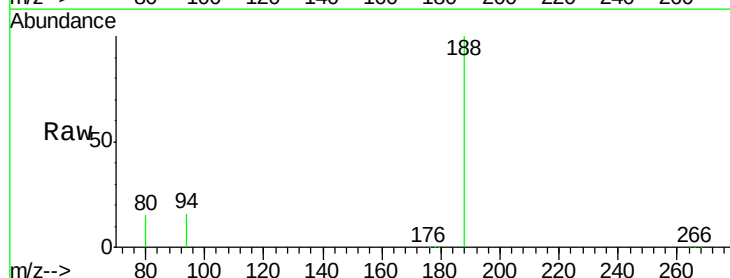
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 YS19-SS38P-1014

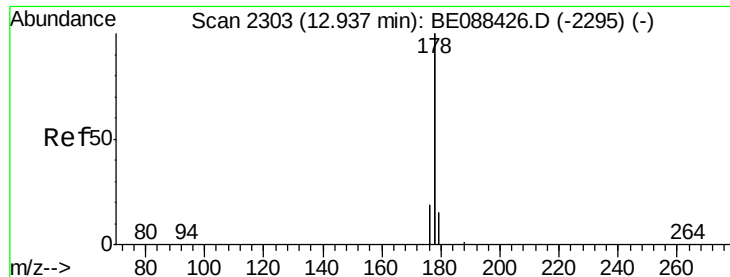
Tgt Ion:166 Resp: 686
 Ion Ratio Lower Upper
 166 100
 165 95.3 71.3 106.9
 167 19.8 10.7 16.1#



#12
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 12.90 min Scan# 2299
 Delta R.T. -0.00 min
 Lab File: BE088443.D
 Acq: 1 Nov 2014 3:39

Tgt Ion:188 Resp: 117329
 Ion Ratio Lower Upper
 188 100
 94 15.9 11.8 17.8
 80 14.7 10.9 16.3

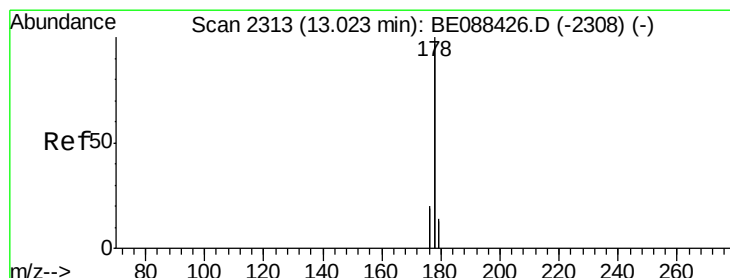
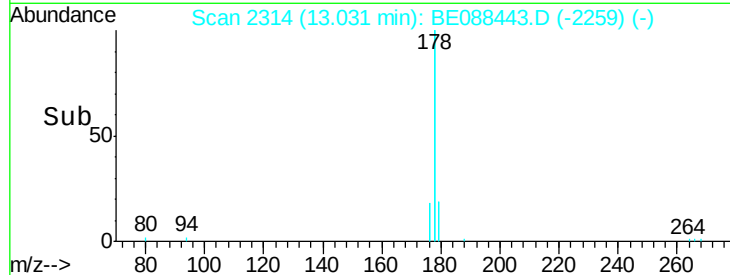
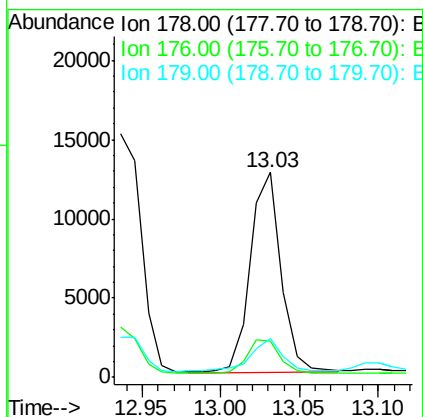
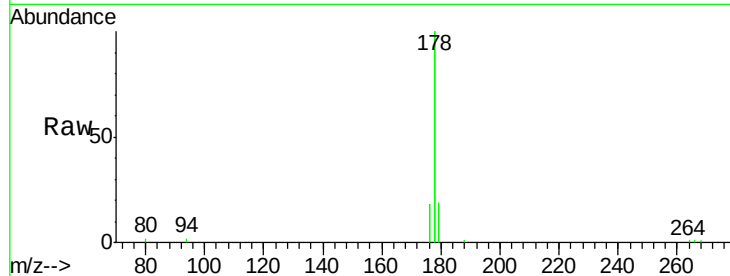




#13
Phenanthrene
Concen: 0.16 ng
RT: 13.03 min Scan# 2314
Delta R.T. 0.09 min
Lab File: BE088443.D
Acq: 1 Nov 2014 3:39

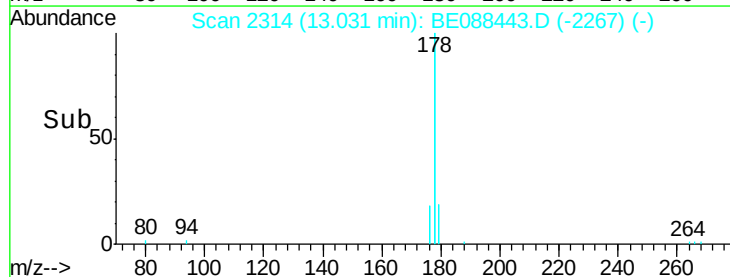
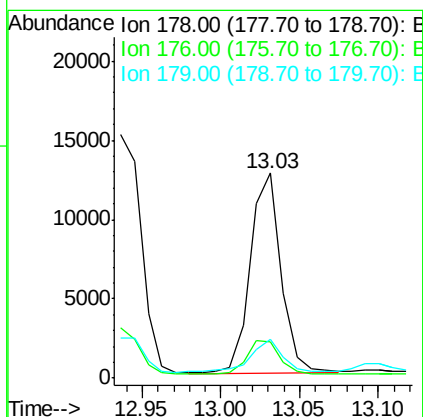
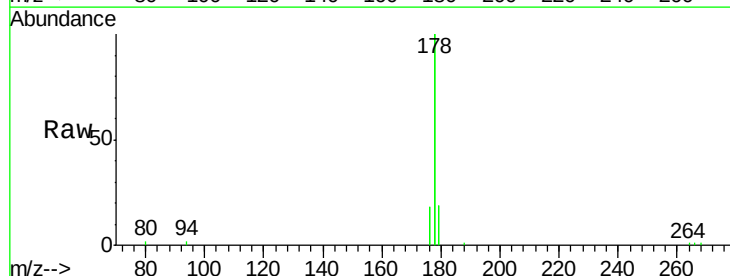
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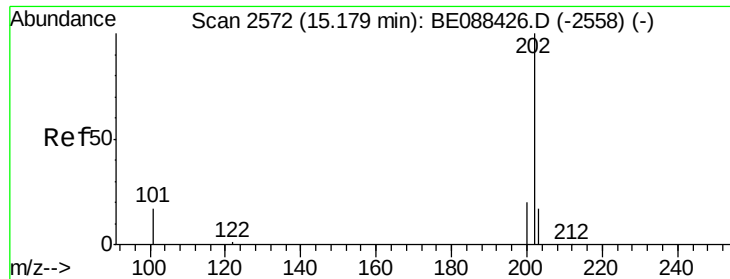
Tgt Ion:178 Resp: 17473
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.2
179 19.1 12.8 19.2



#14
Anthracene
Concen: 0.20 ng
RT: 13.03 min Scan# 2314
Delta R.T. 0.01 min
Lab File: BE088443.D
Acq: 1 Nov 2014 3:39

Tgt Ion:178 Resp: 17473
Ion Ratio Lower Upper
178 100
176 19.1 15.0 22.4
179 19.1 12.5 18.7#

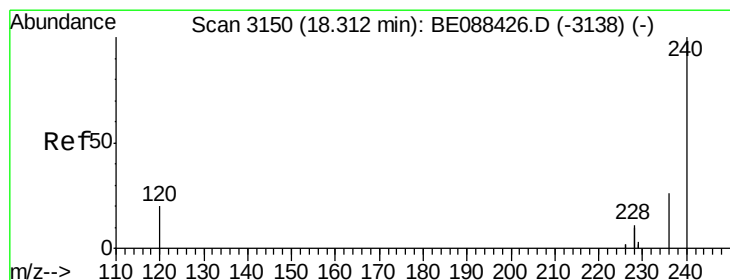
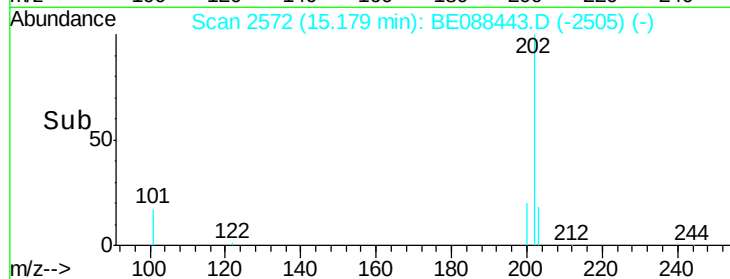
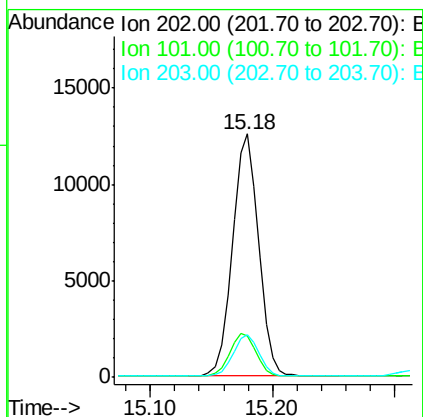
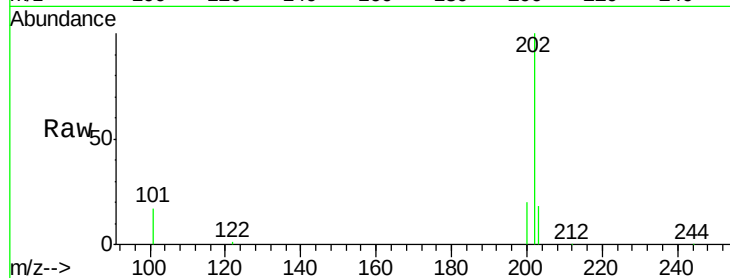




#15
Fluoranthene
Concen: 1.08 ng
RT: 15.18 min Scan# 2572
Delta R.T. -0.00 min
Lab File: BE088443.D
Acq: 1 Nov 2014 3:39

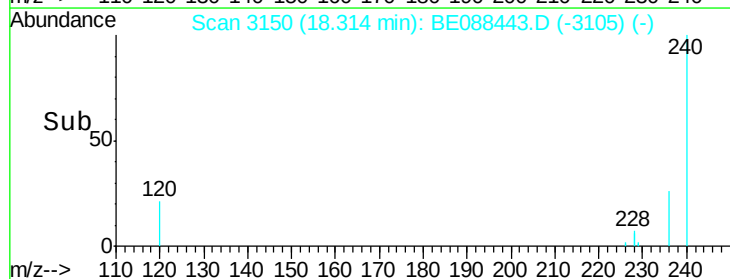
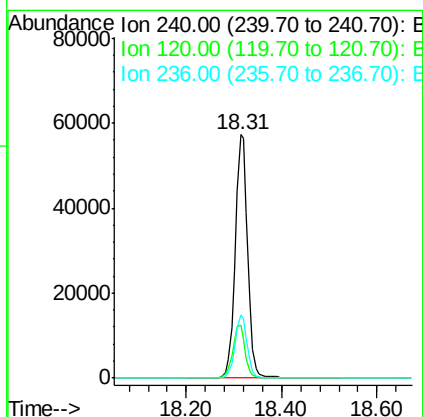
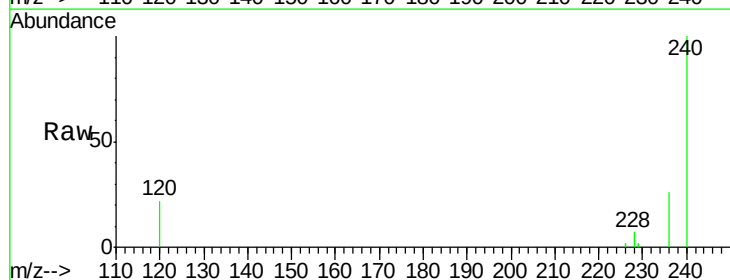
Instrument :
BNA_E
ClientSampleId :
YS19-SS38P-1014

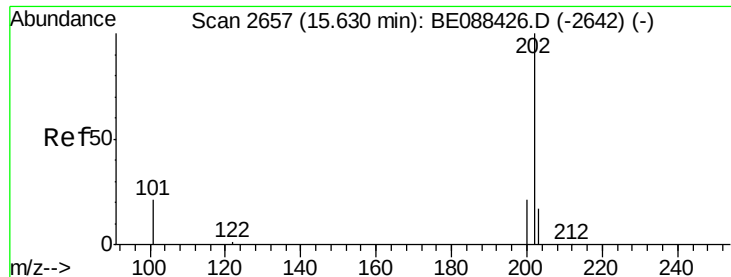
Tgt Ion: 202 Resp: 18662
Ion Ratio Lower Upper
202 100
101 17.8 14.3 21.5
203 17.1 13.6 20.4



#16
Chrysene-d12
Concen: 5.00 ng
RT: 18.31 min Scan# 3150
Delta R.T. 0.00 min
Lab File: BE088443.D
Acq: 1 Nov 2014 3:39

Tgt Ion: 240 Resp: 104133
Ion Ratio Lower Upper
240 100
120 21.6 16.4 24.6
236 25.8 20.5 30.7

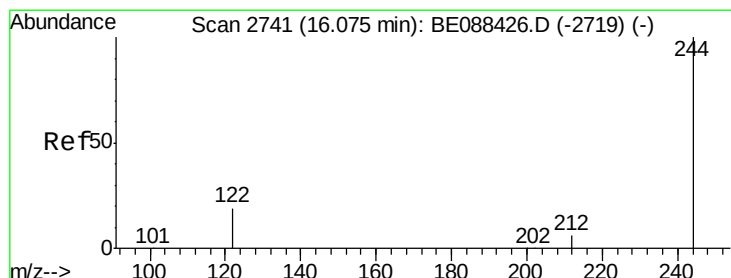
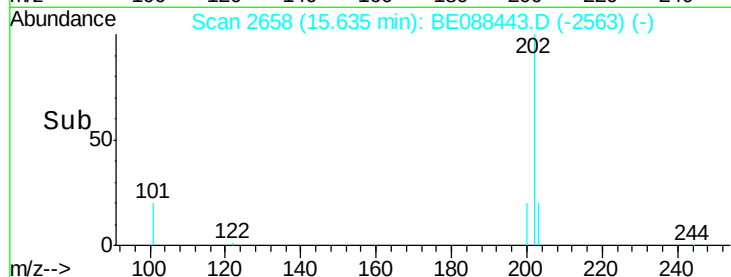
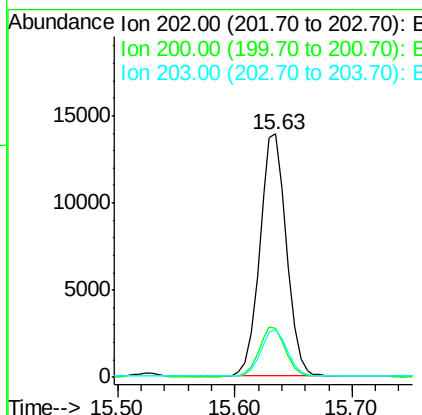
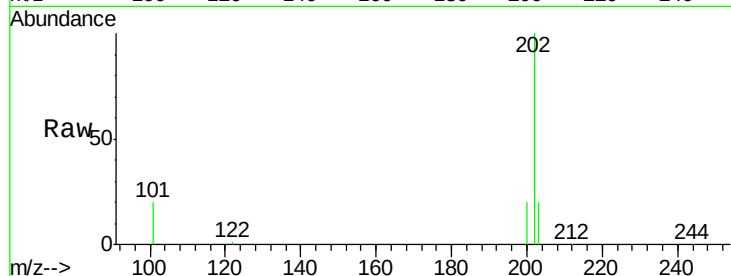




#17
 Pyrene
 Concen: 0.64 ng
 RT: 15.63 min Scan# 2658
 Delta R.T. 0.01 min
 Lab File: BE088443.D
 Acq: 1 Nov 2014 3:39

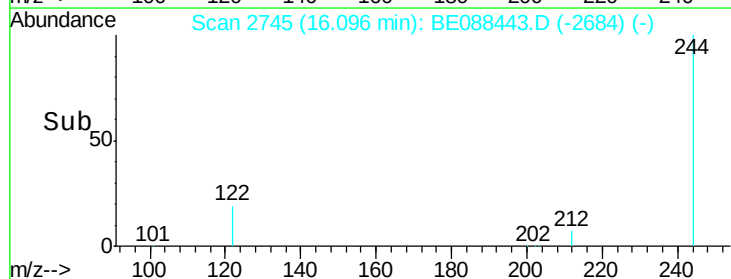
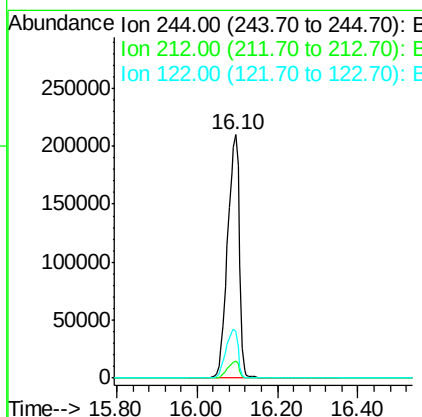
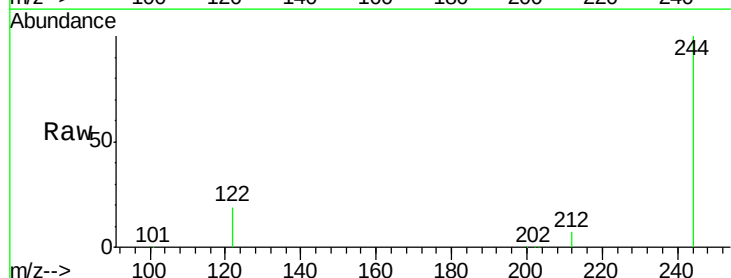
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS38P-1014

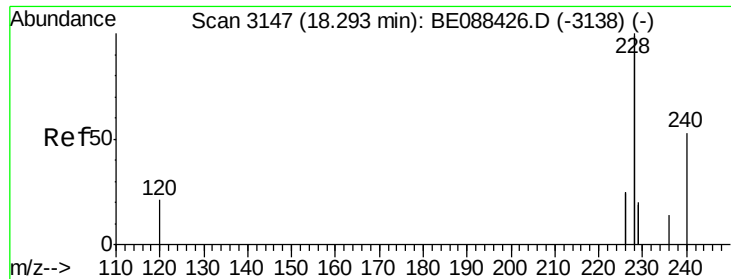
Tgt Ion: 202 Resp: 21845
 Ion Ratio Lower Upper
 202 100
 200 20.2 16.1 24.1
 203 19.0 13.8 20.8



#18
 Terphenyl-d14
 Concen: 22.43 ng
 RT: 16.10 min Scan# 2745
 Delta R.T. 0.02 min
 Lab File: BE088443.D
 Acq: 1 Nov 2014 3:39

Tgt Ion: 244 Resp: 429171
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.5 8.3
 122 19.3 15.6 23.4





#19

Benzo(a)anthracene

Concen: 0.49 ng

RT: 18.29 min Scan# 3147

Delta R.T. 0.00 min

Lab File: BE088443.D

Acq: 1 Nov 2014 3:39

Instrument :

BNA_E

ClientSampleId :

YS19-SS38P-1014

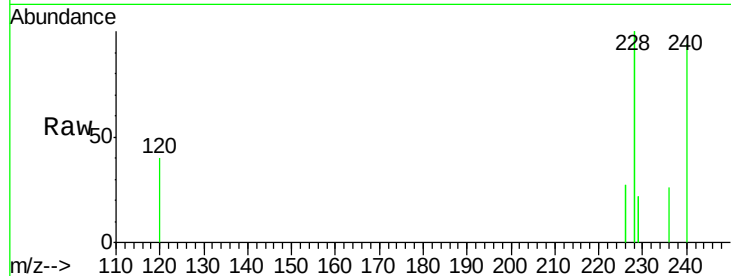
Tgt Ion:228 Resp: 48317

Ion Ratio Lower Upper

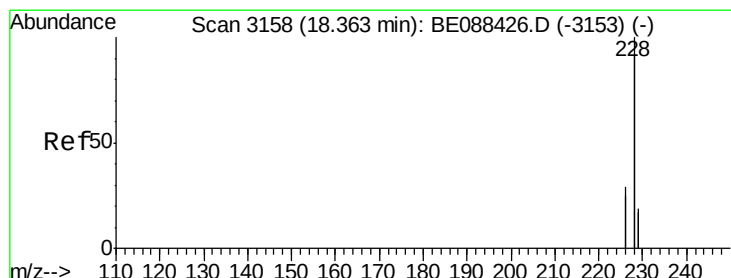
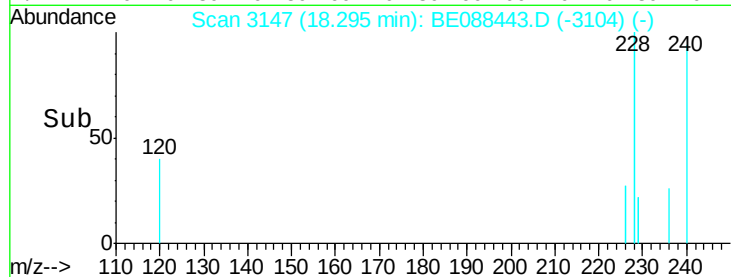
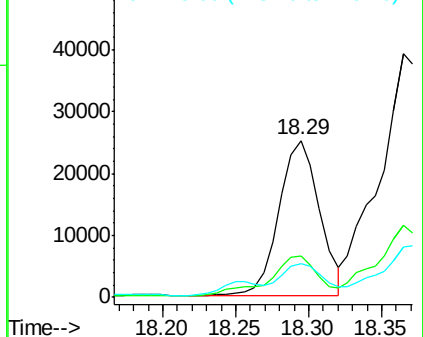
228 100

226 26.6 19.8 29.6

229 21.6 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: 0.92 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088443.D

Acq: 1 Nov 2014 3:39

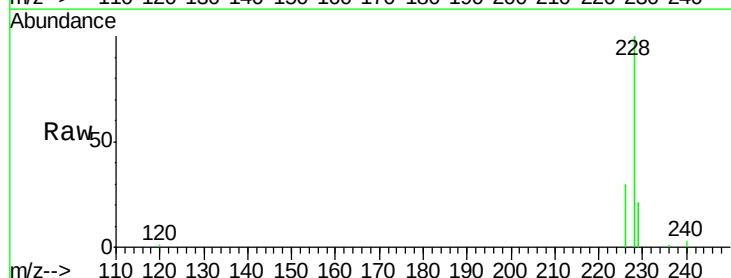
Tgt Ion:228 Resp: 88349

Ion Ratio Lower Upper

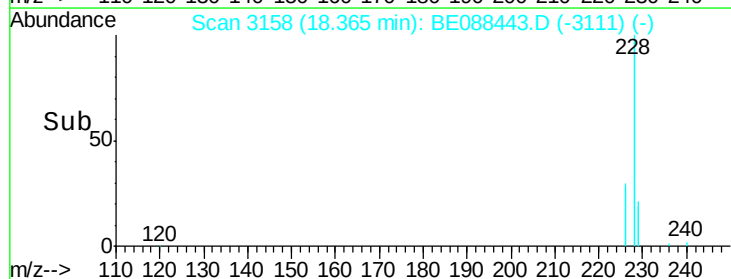
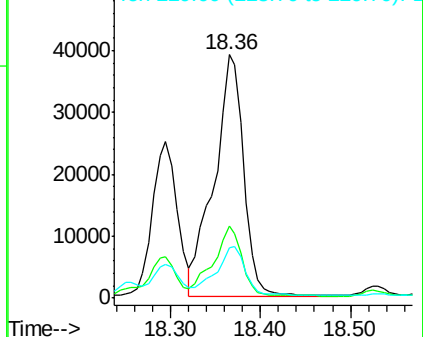
228 100

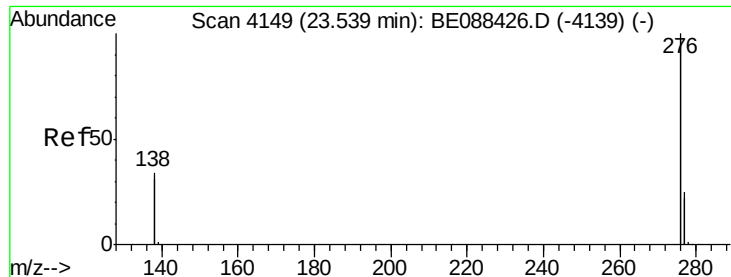
226 29.7 23.6 35.4

229 20.5 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: 1.00 ng

RT: 23.55 min Scan# 4151

Delta R.T. 0.01 min

Lab File: BE088443.D

Acq: 1 Nov 2014 3:39

Instrument :

BNA_E

ClientSampleId :

YS19-SS38P-1014

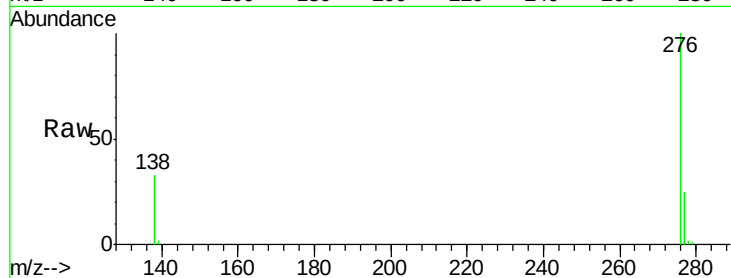
Tgt Ion:276 Resp: 89606

Ion Ratio Lower Upper

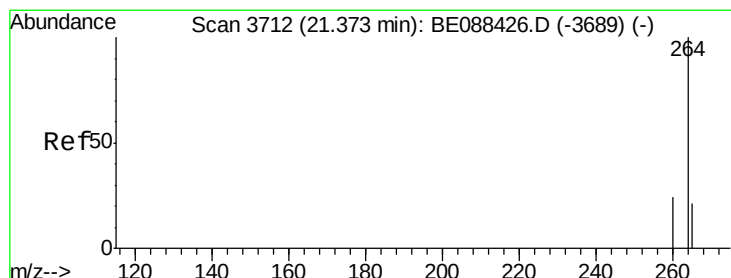
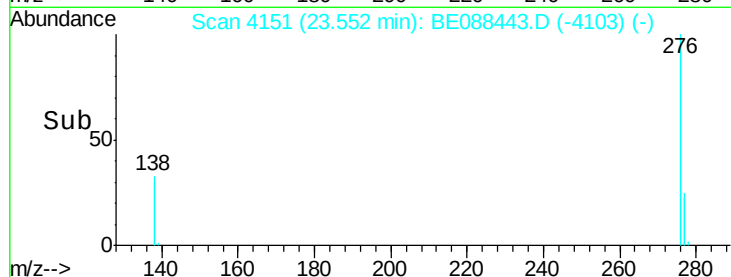
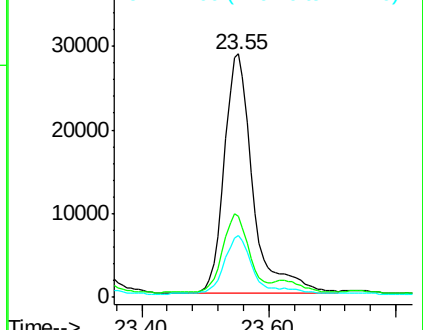
276 100

138 30.7 20.2 30.2#

277 24.2 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



#22

Perylene-d12

Concen: 5.00 ng

RT: 21.38 min Scan# 3714

Delta R.T. 0.01 min

Lab File: BE088443.D

Acq: 1 Nov 2014 3:39

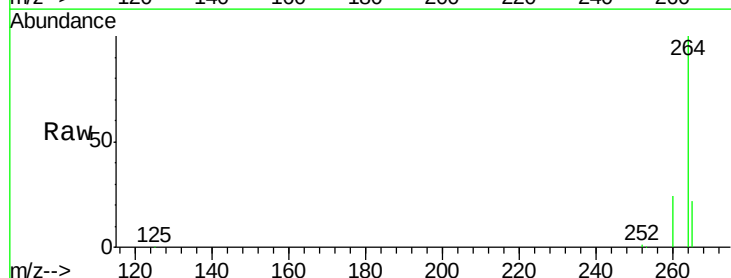
Tgt Ion:264 Resp: 109378

Ion Ratio Lower Upper

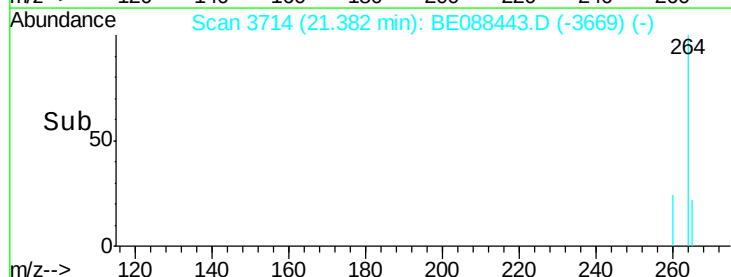
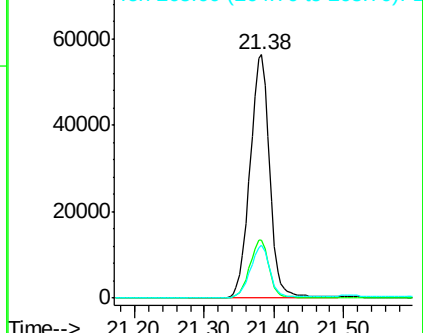
264 100

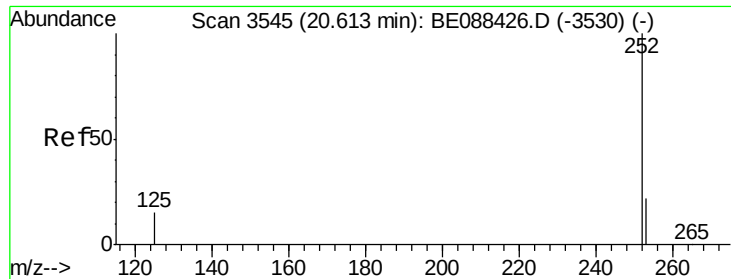
260 23.8 18.9 28.3

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: 1.75 ng

RT: 20.62 min Scan# 3546

Delta R.T. 0.00 min

Lab File: BE088443.D

Acq: 1 Nov 2014 3:39

Instrument :

BNA_E

ClientSampleId :

YS19-SS38P-1014

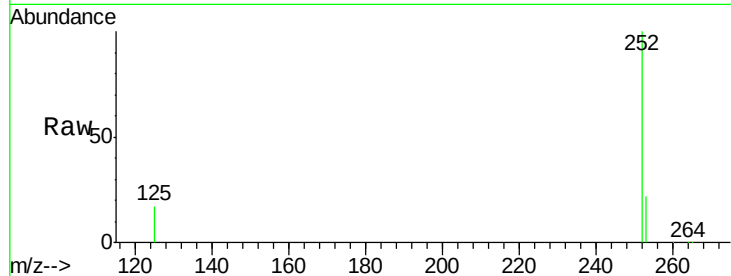
Tgt Ion:252 Resp: 41954

Ion Ratio Lower Upper

252 100

253 22.4 17.8 26.8

125 16.8 12.3 18.5

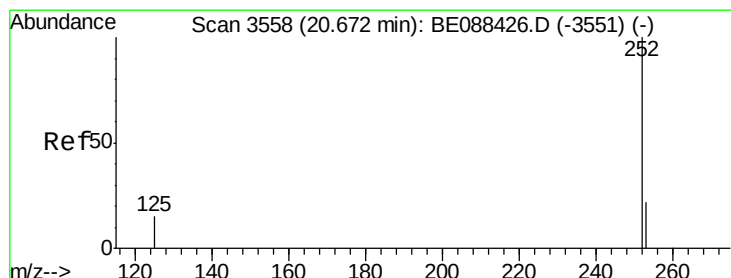
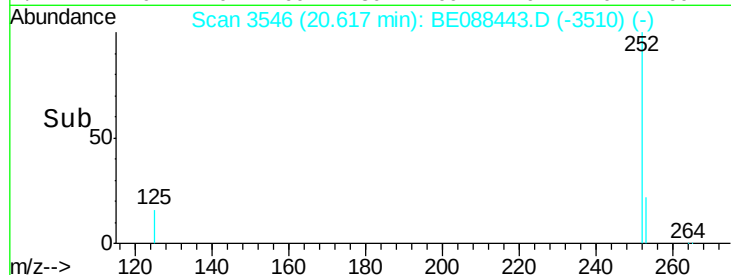
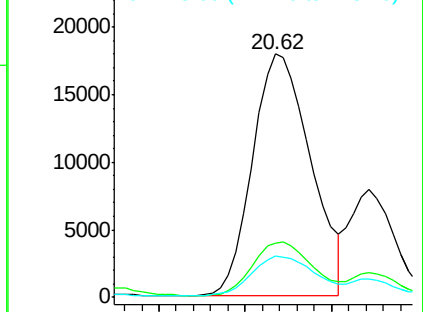


Abundance

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: 0.55 ng

RT: 20.67 min Scan# 3558

Delta R.T. 0.00 min

Lab File: BE088443.D

Acq: 1 Nov 2014 3:39

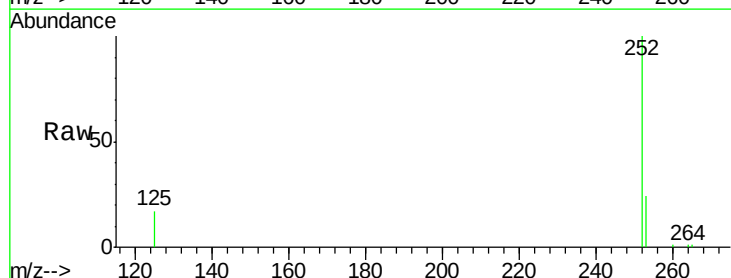
Tgt Ion:252 Resp: 14510

Ion Ratio Lower Upper

252 100

253 23.5 17.8 26.8

125 17.0 12.2 18.4

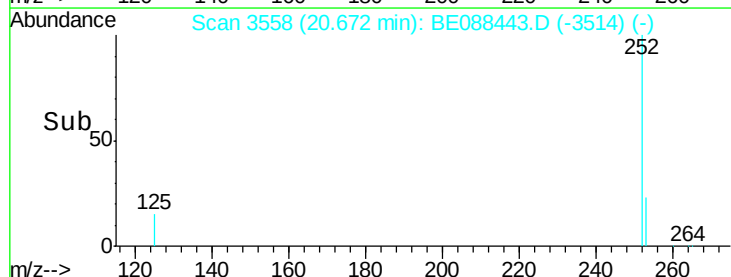
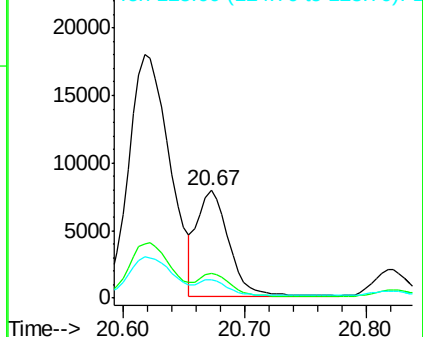


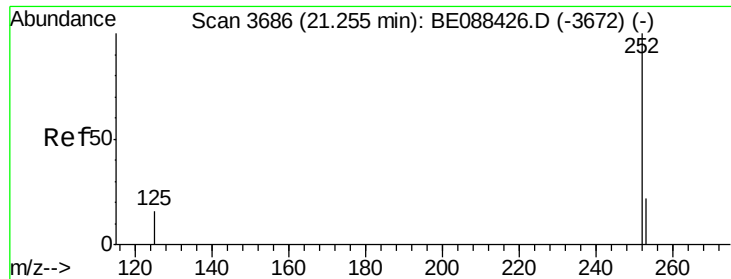
Abundance

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: 0.93 ng

RT: 21.25 min Scan# 3686

Delta R.T. 0.00 min

Lab File: BE088443.D

Acq: 1 Nov 2014 3:39

Instrument :

BNA_E

ClientSampleId :

YS19-SS38P-1014

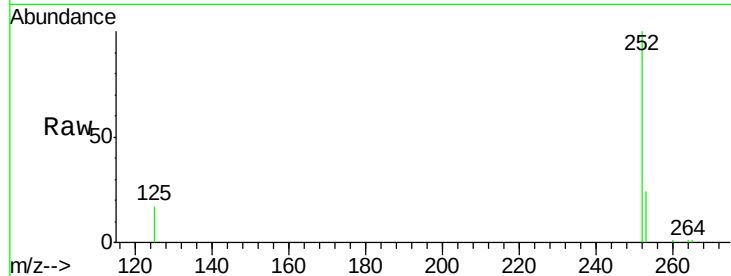
Tgt Ion: 252 Resp: 21364

Ion Ratio Lower Upper

252 100

253 24.0 18.2 27.4

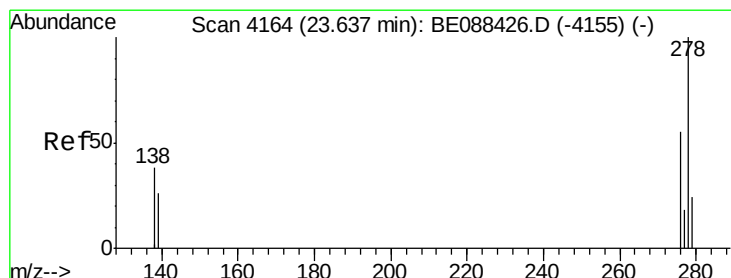
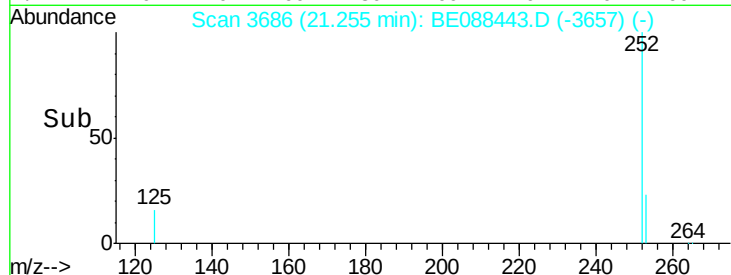
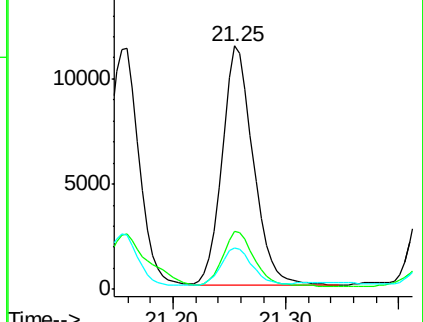
125 17.2 13.7 20.5



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: 0.20 ng

RT: 23.63 min Scan# 4163

Delta R.T. -0.01 min

Lab File: BE088443.D

Acq: 1 Nov 2014 3:39

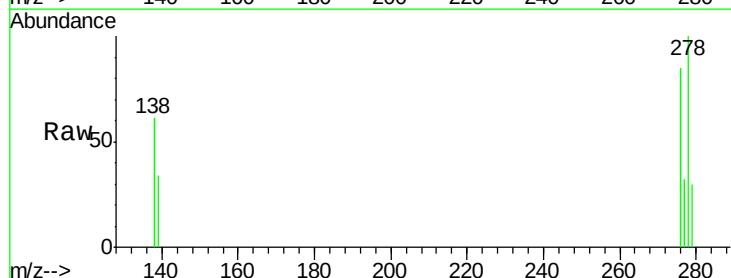
Tgt Ion: 278 Resp: 4330

Ion Ratio Lower Upper

278 100

139 33.7 22.1 33.1#

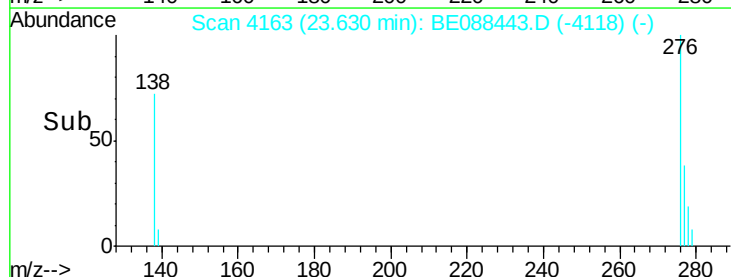
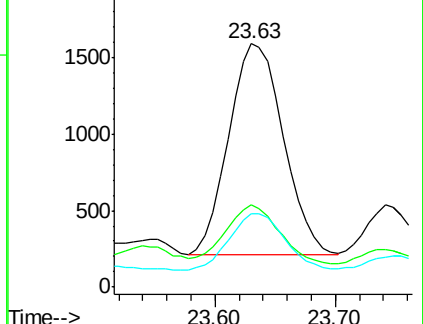
279 30.2 19.7 29.5#

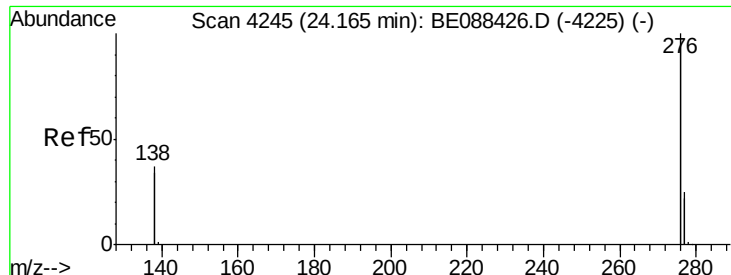


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.93 ng

RT: 24.17 min Scan# 4246

Delta R.T. 0.01 min

Lab File: BE088443.D

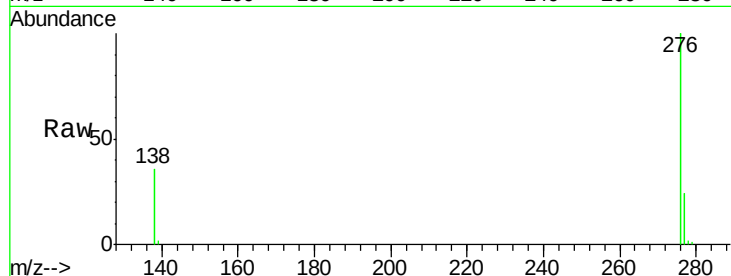
Acq: 1 Nov 2014 3:39

Instrument :

BNA_E

ClientSampleId :

YS19-SS38P-1014



Tgt Ion: 276 Resp: 91498

Ion Ratio Lower Upper

276 100

277 24.3 19.8 29.6

138 35.5 29.3 43.9

