

Data Path : Z:\HPCHEM1\BNA_E\Data\BE103114\
 Data File : BE088448.D
 Acq On : 1 Nov 2014 6:26
 Operator : TP/JJ
 Sample : F4379-01MSD
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS32-1014MSD

Quant Time: Nov 01 06:07:40 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	38621	5.00	ng	0.00
3) Naphthalene-d8	8.66	136	134358	5.00	ng	0.00
7) Acenaphthene-d10	10.80	164	51455	5.00	ng	0.01
12) Phenanthrene-d10	12.92	188	93484	5.00	ng	0.02
16) Chrysene-d12	18.35	240	49156	5.00	ng	0.03
22) Perylene-d12	21.41	264	49411	5.00	ng	0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.78	82	86474	8.78	ng	0.00
8) 2-Fluorobiphenyl	9.99	172	126817	8.74	ng	0.00
18) Terphenyl-d14	16.09	244	74763	8.28	ng	0.02

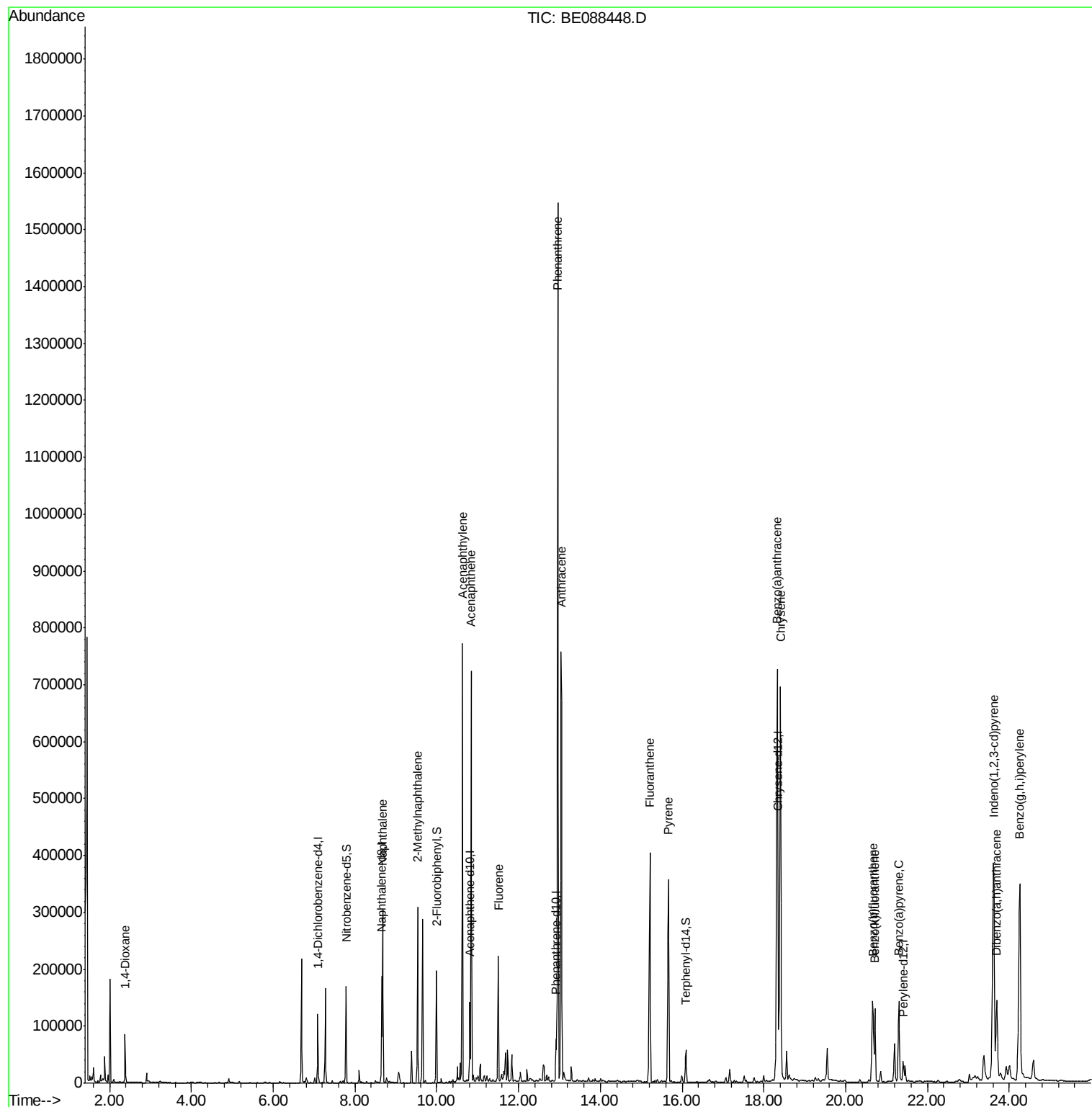
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.38	88	43614	8.63	ng	97
5) Naphthalene	8.68	128	251630	9.05	ng	98
6) 2-Methylnaphthalene	9.53	142	144761	8.41	ng	97
9) Acenaphthylene	10.63	152	674921	8.10	ng	99
10) Acenaphthene	10.84	154	109449	8.86	ng	100
11) Fluorene	11.51	166	124245	9.48	ng	99
13) Phenanthrene	12.96	178	2032545	23.93	ng	100
14) Anthracene	13.04	178	783591	11.42	ng	97
15) Fluoranthene	15.21	202	466005	33.80	ng	99
17) Pyrene	15.66	202	401490	25.04	ng	96
19) Benzo(a)anthracene	18.33	228	1016719	21.97	ng	99
20) Chrysene	18.40	228	891569	19.63	ng	99
21) Indeno(1,2,3-cd)pyrene	23.62	276	713342	16.85	ng	# 88
23) Benzo(b)fluoranthene	20.66	252	272186	25.12	ng	99
24) Benzo(k)fluoranthene	20.71	252	159698	13.38	ng	99
25) Benzo(a)pyrene	21.30	252	207547	19.95	ng	99
26) Dibenzo(a,h)anthracene	23.70	278	109990	11.38	ng	99
27) Benzo(g,h,i)perylene	24.26	276	745979	16.84	ng	96

(#) = 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# 1247

Delta R.T. 0.00 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014MSD

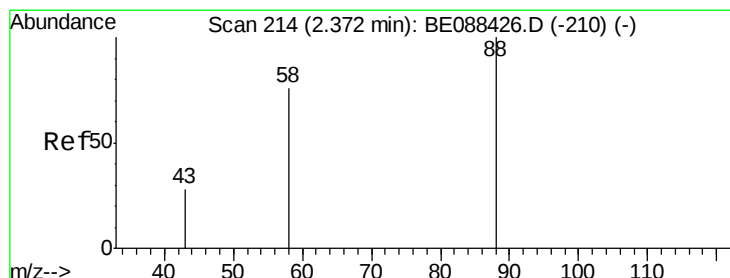
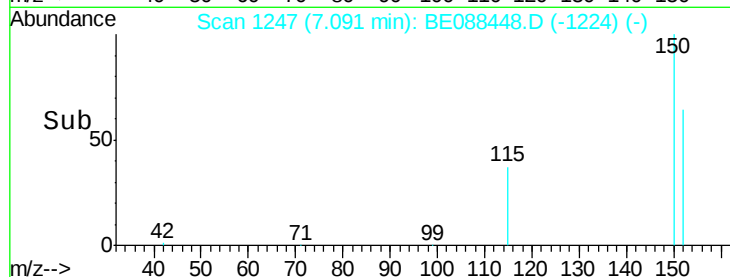
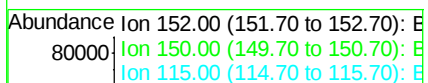
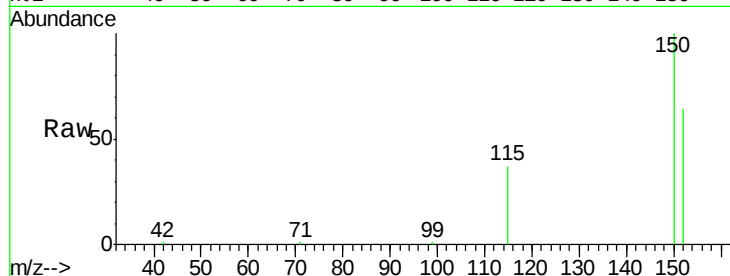
Tgt Ion:152 Resp: 38621

Ion Ratio Lower Upper

152 100

150 155.7 121.8 182.8

115 57.5 43.9 65.9



#2

1,4-Dioxane

Concen: 8.63 ng

RT: 2.38 min Scan# 216

Delta R.T. 0.01 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

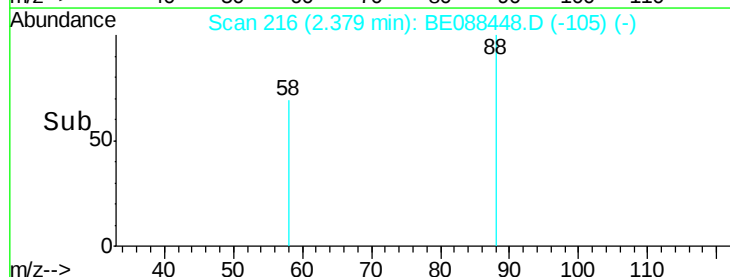
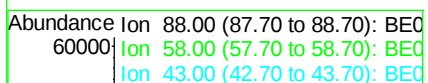
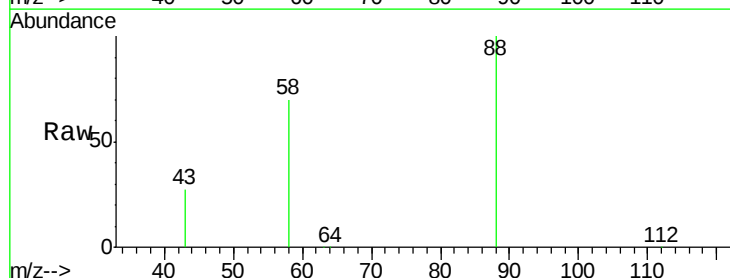
Tgt Ion: 88 Resp: 43614

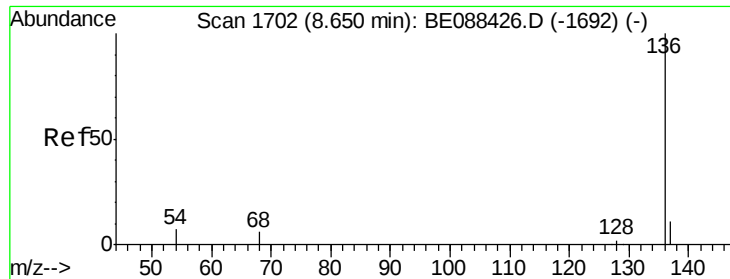
Ion Ratio Lower Upper

88 100

58 75.0 59.1 88.7

43 30.5 21.9 32.9

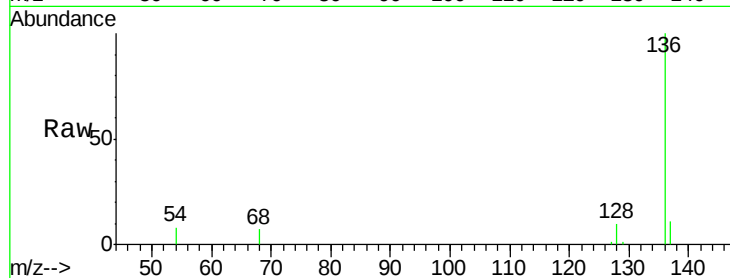




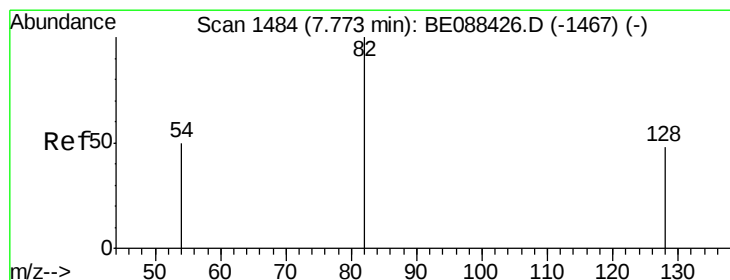
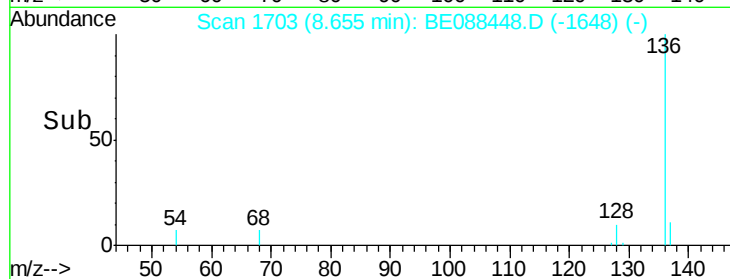
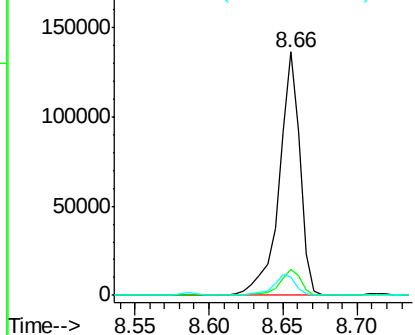
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.66 min Scan# 1703
Delta R.T. 0.01 min
Lab File: BE088448.D
Acq: 1 Nov 2014 6:26

Instrument :
BNA_E
ClientSampleId :
YS19-SS32-1014MSD

Tgt Ion: 136 Resp: 134358
Ion Ratio Lower Upper
136 100
137 10.8 8.8 13.2
54 7.5 5.3 7.9

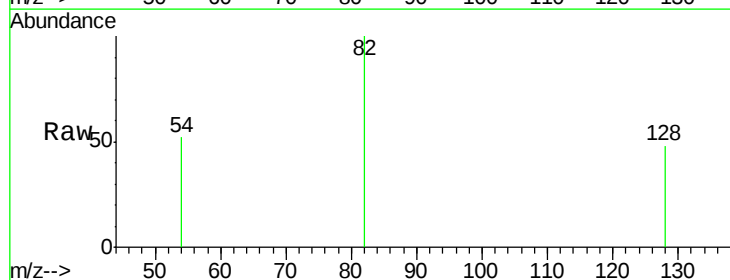


Abundance Ion 136.00 (135.70 to 136.70): BE088448.D (-1648) (-)
Ion 137.00 (136.70 to 137.70): BE088448.D (-1648) (-)
Ion 54.00 (53.70 to 54.70): BE088448.D (-1648) (-)

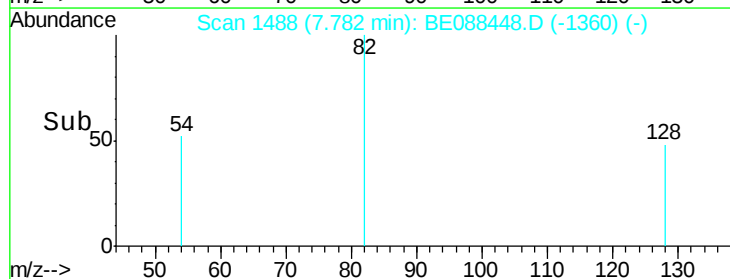
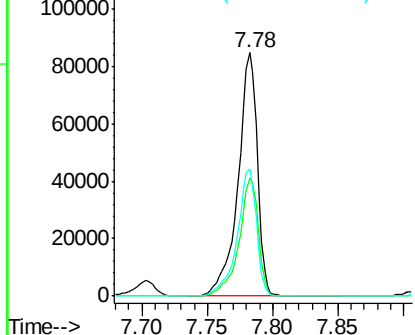


#4
Nitrobenzene-d5
Concen: 8.78 ng
RT: 7.78 min Scan# 1488
Delta R.T. 0.01 min
Lab File: BE088448.D
Acq: 1 Nov 2014 6:26

Tgt Ion: 82 Resp: 86474
Ion Ratio Lower Upper
82 100
128 48.4 38.4 57.6
54 52.0 40.2 60.2



Abundance Ion 82.00 (81.70 to 82.70): BE088448.D (-1360) (-)
Ion 128.00 (127.70 to 128.70): BE088448.D (-1360) (-)
Ion 54.00 (53.70 to 54.70): BE088448.D (-1360) (-)





#5

Naphthalene

Concen: 9.05 ng

RT: 8.68 min Scan# 1708

Delta R.T. 0.01 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014MSD

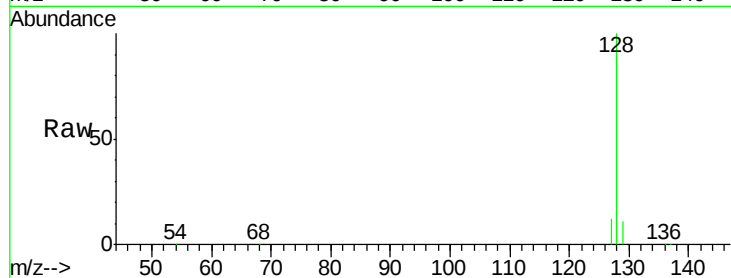
Tgt Ion:128 Resp: 251630

Ion Ratio Lower Upper

128 100

129 11.2 8.6 12.8

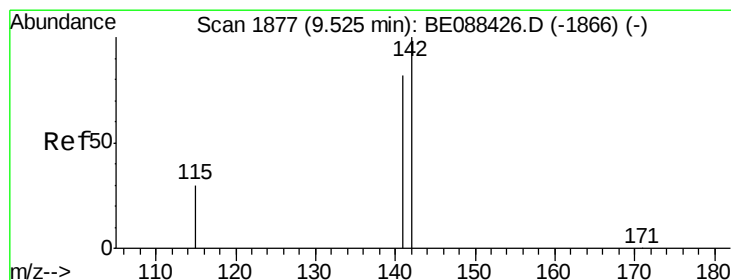
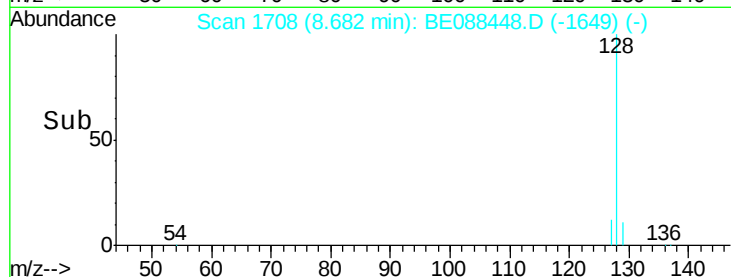
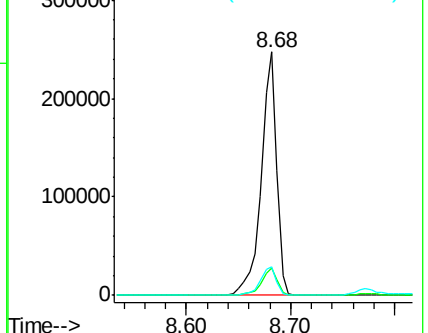
127 11.9 10.1 15.1



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#6

2-Methylnaphthalene

Concen: 8.41 ng

RT: 9.53 min Scan# 1879

Delta R.T. 0.01 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

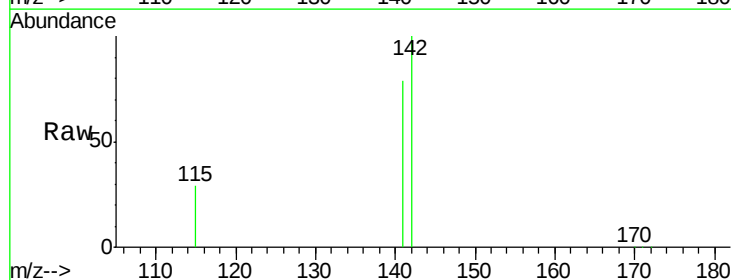
Tgt Ion:142 Resp: 144761

Ion Ratio Lower Upper

142 100

141 79.5 65.8 98.8

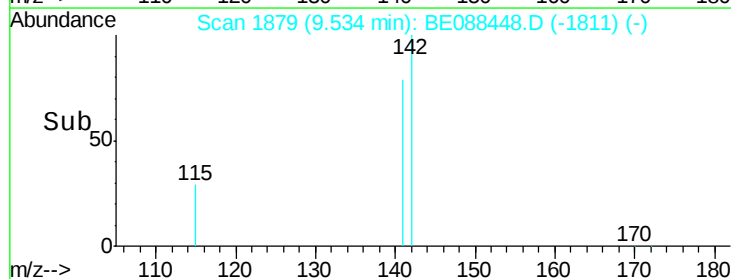
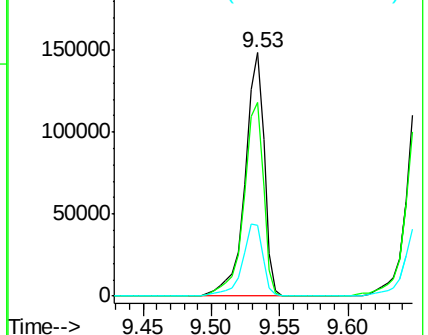
115 29.3 24.2 36.4



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.80 min Scan# 2110

Delta R.T. 0.01 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014MSD

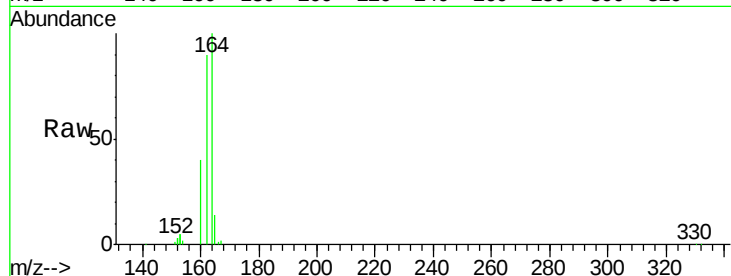
Tgt Ion:164 Resp: 51455

Ion Ratio Lower Upper

164 100

162 90.0 77.0 115.4

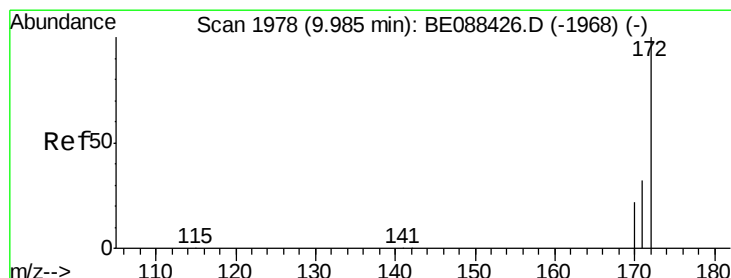
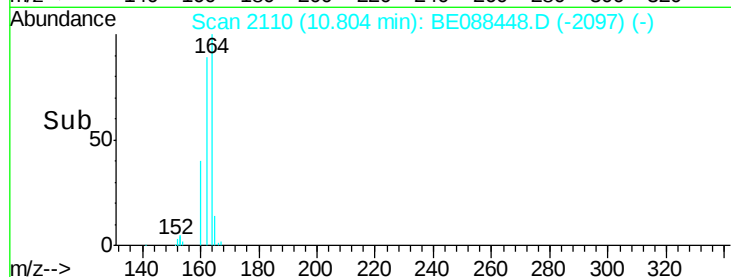
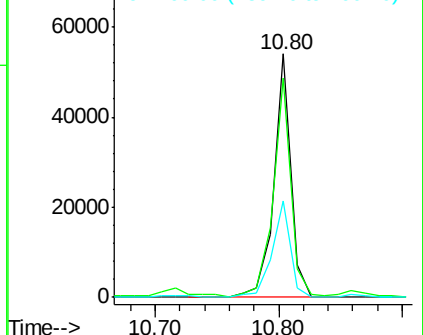
160 39.8 36.8 55.2



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: 8.74 ng

RT: 9.99 min Scan# 1980

Delta R.T. 0.01 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

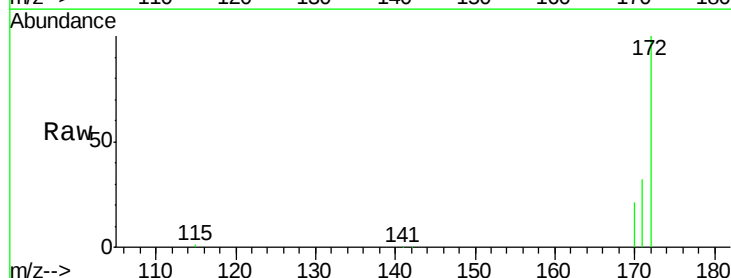
Tgt Ion:172 Resp: 126817

Ion Ratio Lower Upper

172 100

171 31.7 26.0 39.0

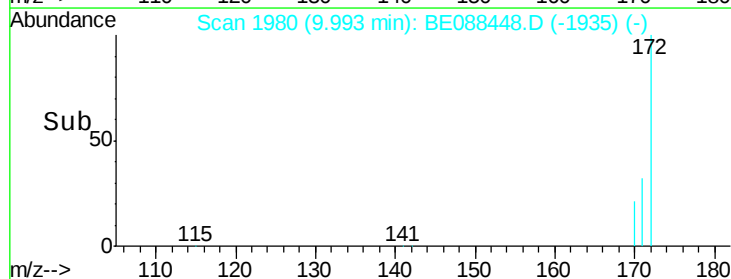
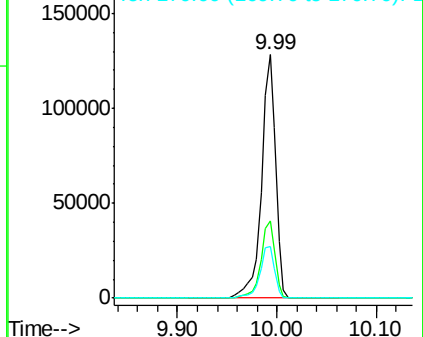
170 21.1 17.6 26.4



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: 8.10 ng

RT: 10.63 min Scan# 2094

Delta R.T. 0.01 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014MSD

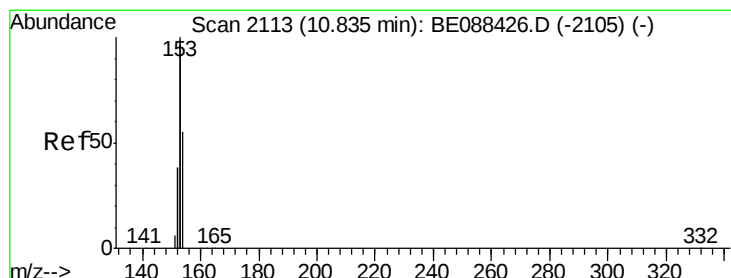
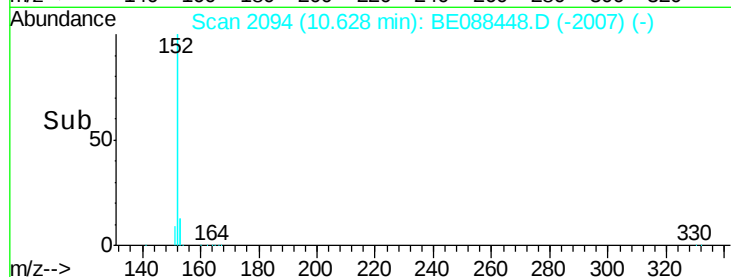
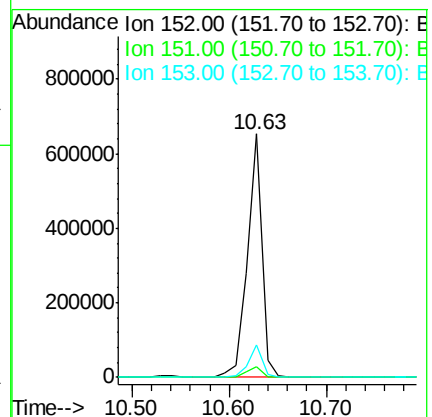
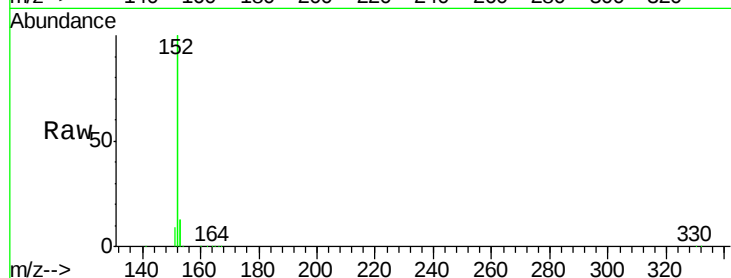
Tgt Ion:152 Resp: 674921

Ion Ratio Lower Upper

152 100

151 4.7 4.4 6.6

153 12.9 10.5 15.7



#10

Acenaphthene

Concen: 8.86 ng

RT: 10.84 min Scan# 2113

Delta R.T. 0.00 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

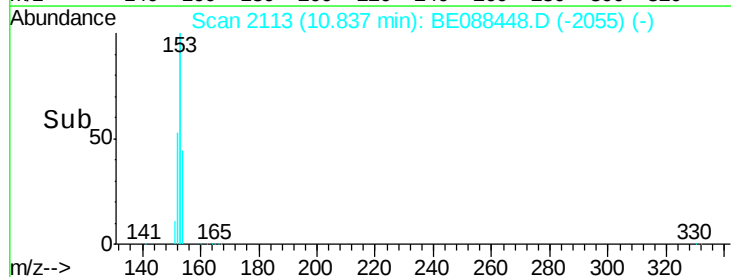
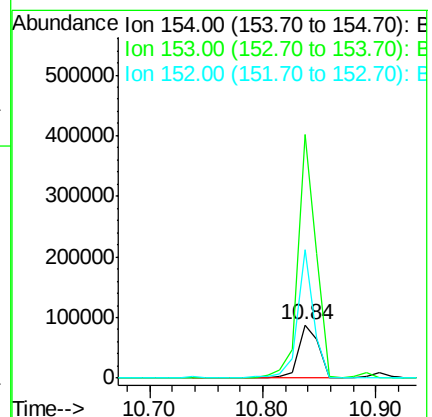
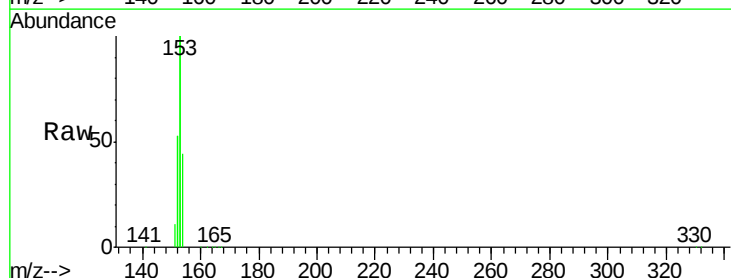
Tgt Ion:154 Resp: 109449

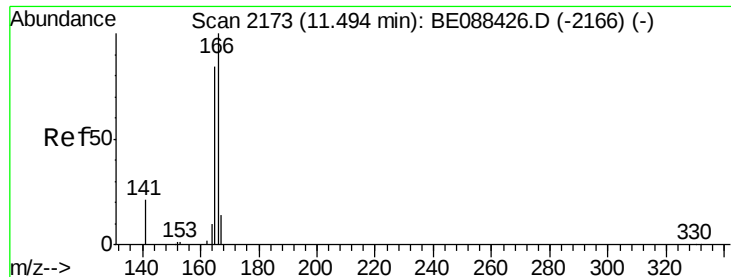
Ion Ratio Lower Upper

154 100

153 405.6 324.3 486.5

152 194.1 154.9 232.3





#11

Fluorene

Concen: 9.48 ng

RT: 11.51 min Scan# 2174

Delta R.T. 0.01 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

Instrument :

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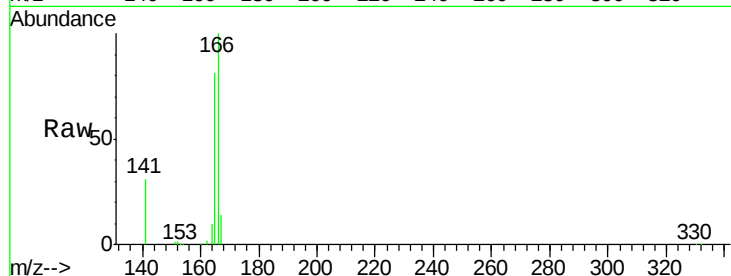
Tgt Ion:166 Resp: 124245

Ion Ratio Lower Upper

166 100

165 89.9 71.3 106.9

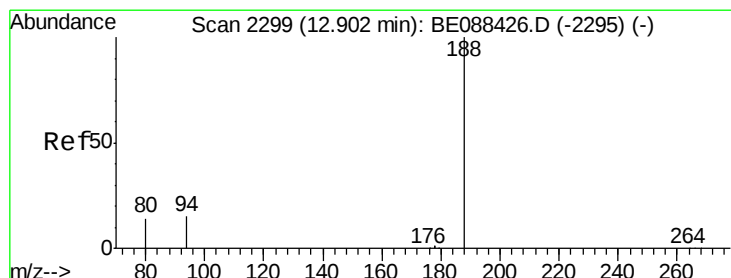
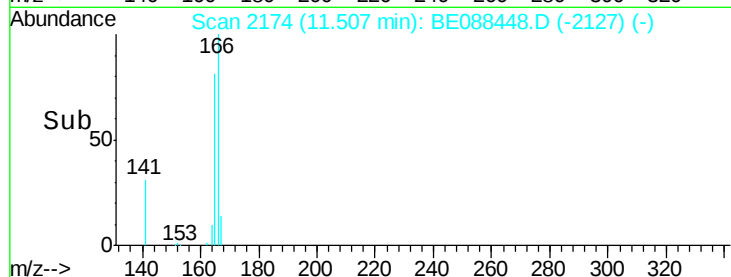
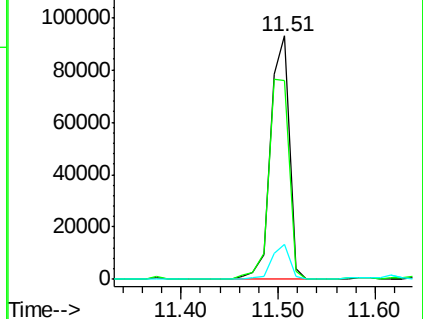
167 13.5 10.7 16.1



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: 12.92 min Scan# 2301

Delta R.T. 0.02 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

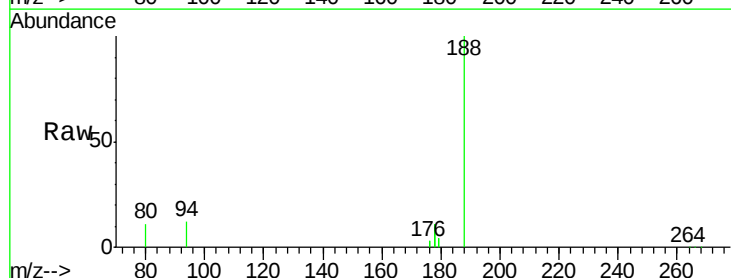
Tgt Ion:188 Resp: 93484

Ion Ratio Lower Upper

188 100

94 11.9 11.8 17.8

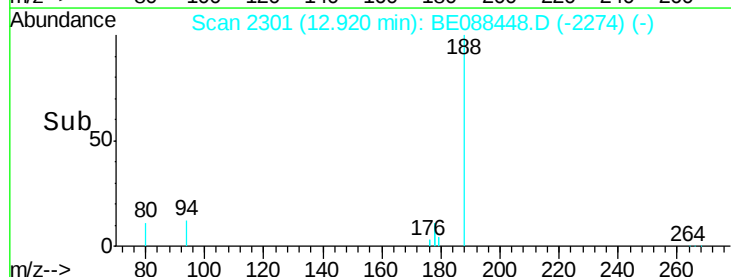
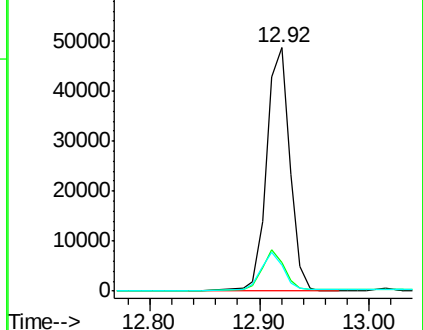
80 10.7 10.9 16.3#

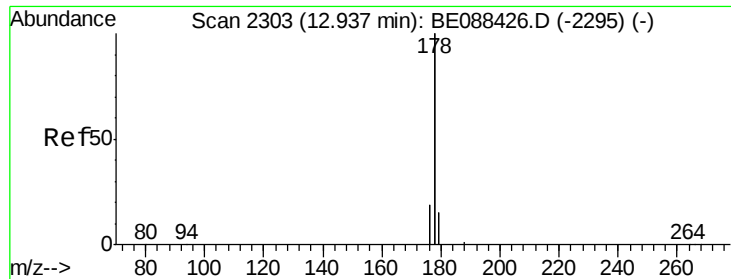


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 23.93 ng

RT: 12.96 min Scan# 2306

Delta R.T. 0.03 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

Instrument :

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YS19-SS32-1014MSD

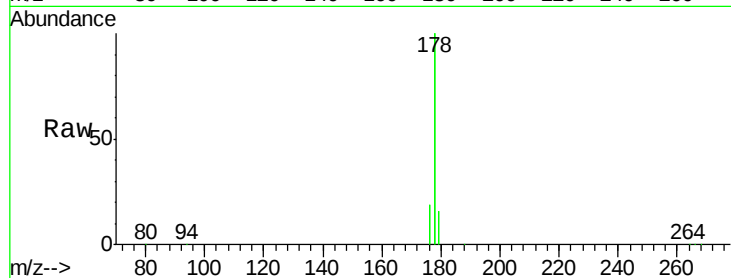
Tgt Ion:178 Resp: 2032545

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

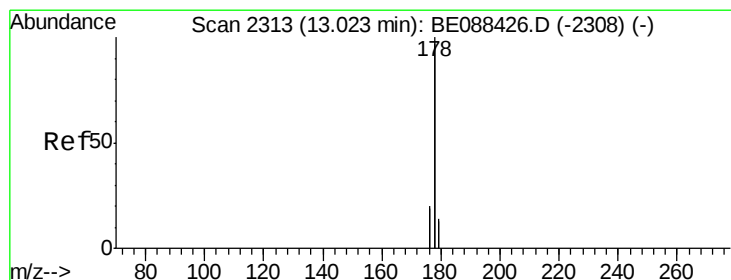
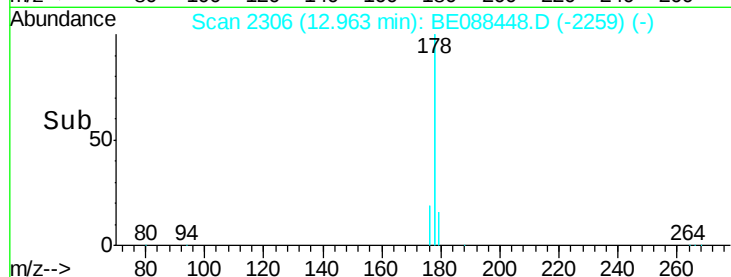
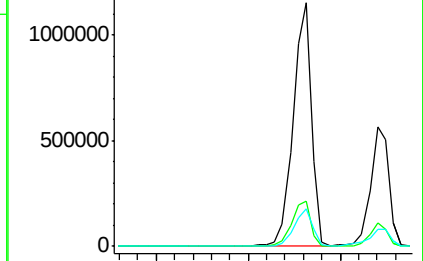
179 16.0 12.8 19.2



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: 11.42 ng

RT: 13.04 min Scan# 2315

Delta R.T. 0.02 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

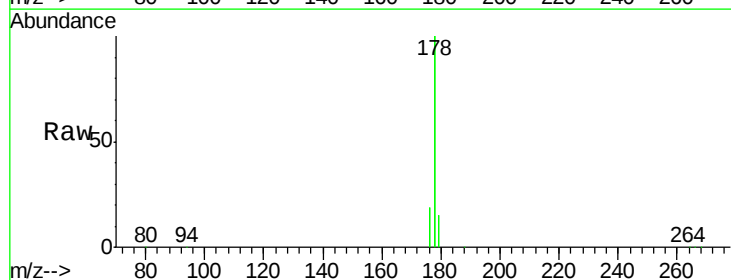
Tgt Ion:178 Resp: 783591

Ion Ratio Lower Upper

178 100

176 18.2 15.0 22.4

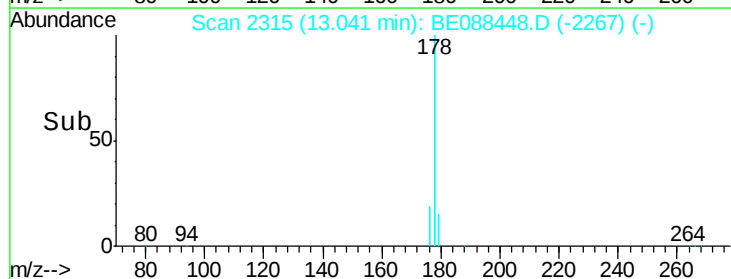
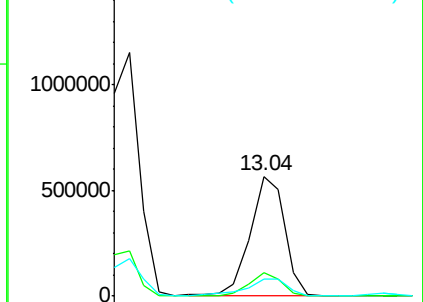
179 17.6 12.5 18.7

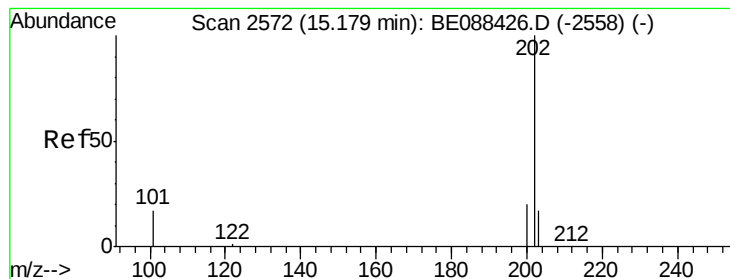


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 33.80 ng

RT: 15.21 min Scan# 2578

Delta R.T. 0.03 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

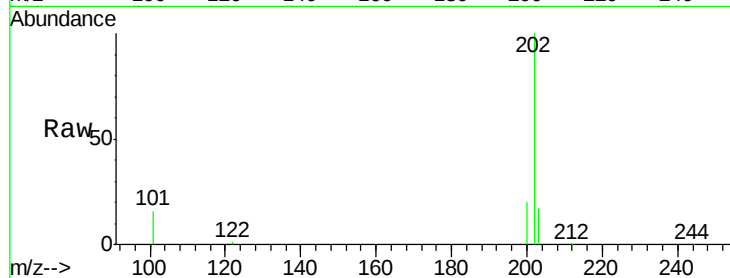
Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014MSD

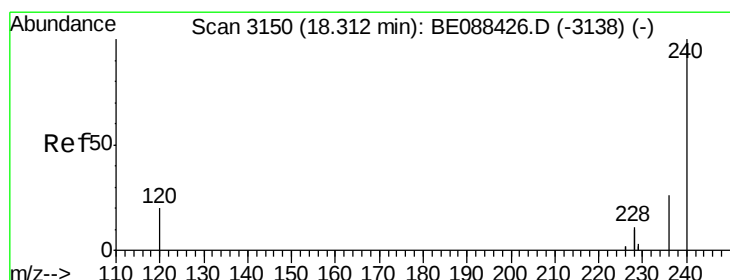
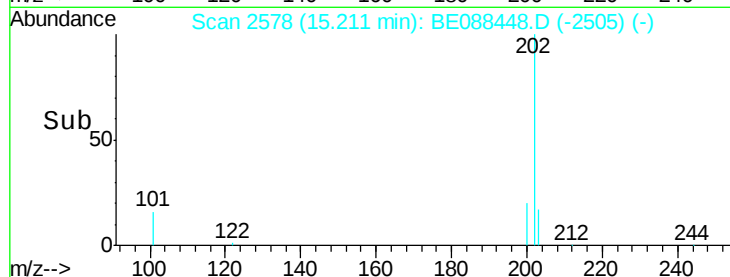
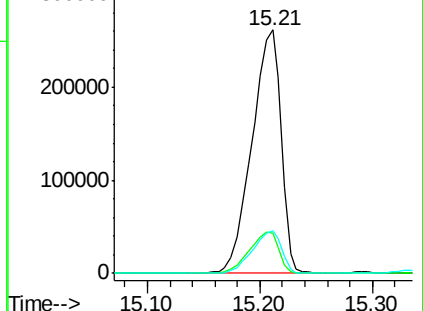
Tgt Ion:	202	Resp:	466005
Ion Ratio	Lower	Upper	
202	100		
101	17.2	14.3	21.5
203	17.4	13.6	20.4



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

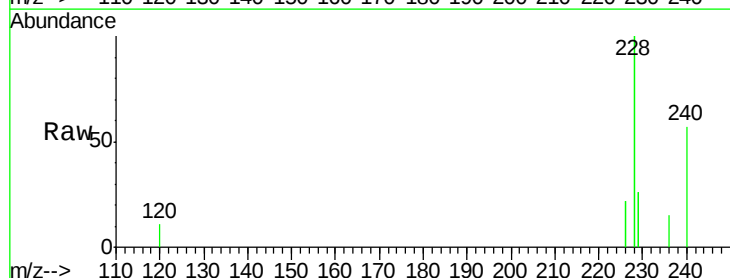
RT: 18.35 min Scan# 3155

Delta R.T. 0.03 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

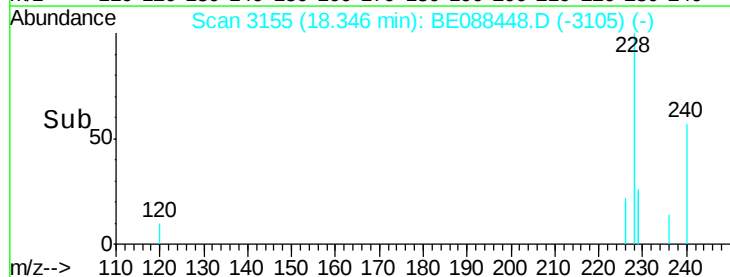
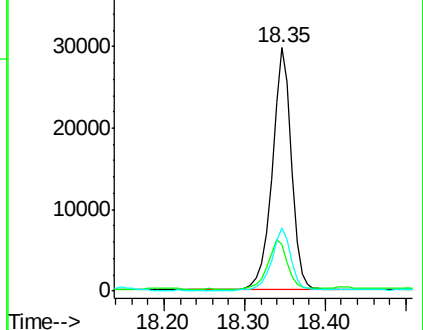
Tgt Ion:	240	Resp:	49156
Ion Ratio	Lower	Upper	
240	100		
120	19.2	16.4	24.6
236	25.7	20.5	30.7

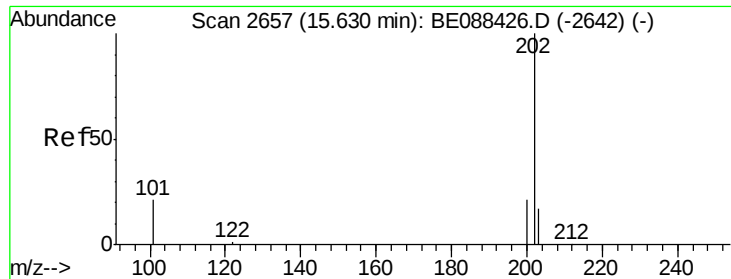


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

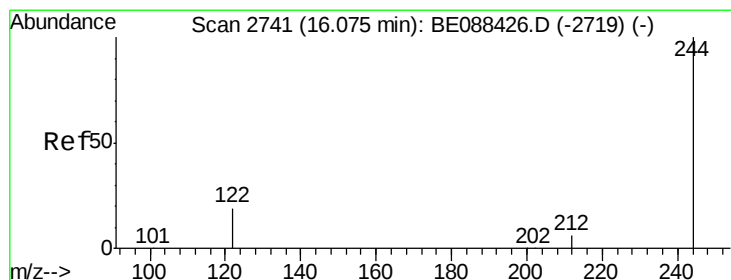
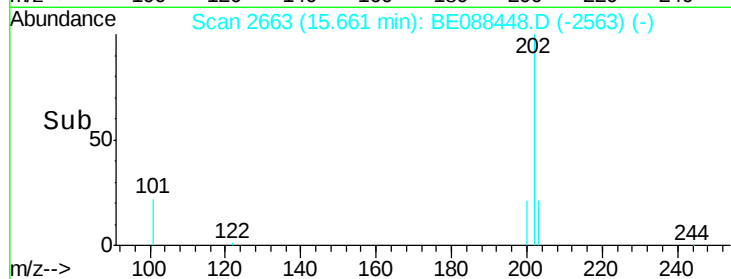
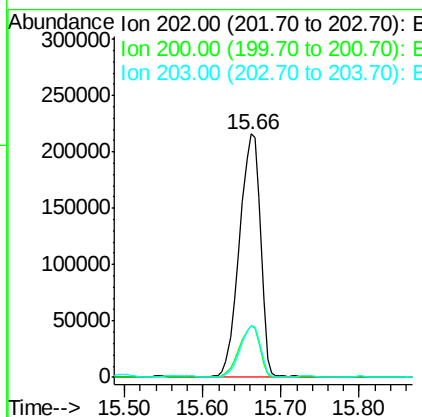
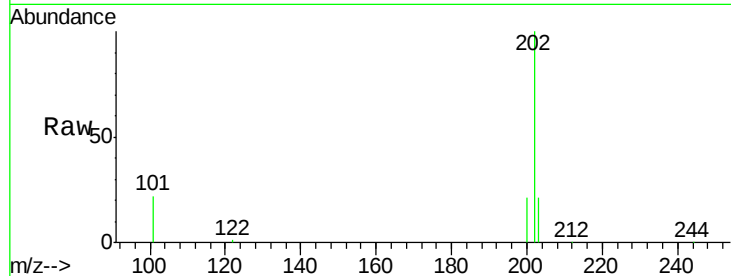




#17
Pyrene
 Concen: 25.04 ng
 RT: 15.66 min Scan# 2663
 Delta R.T. 0.03 min
 Lab File: BE088448.D
 Acq: 1 Nov 2014 6:26

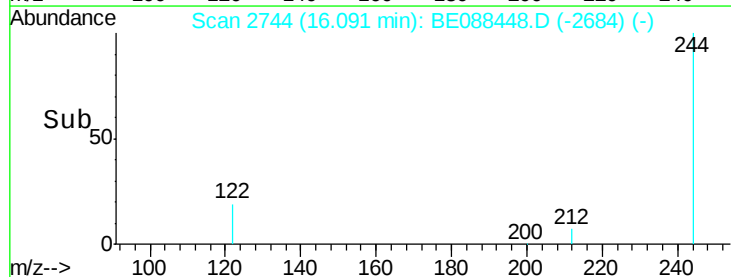
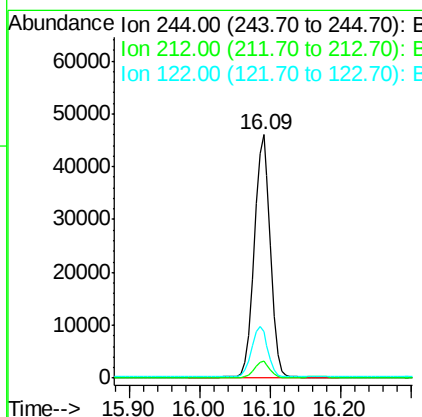
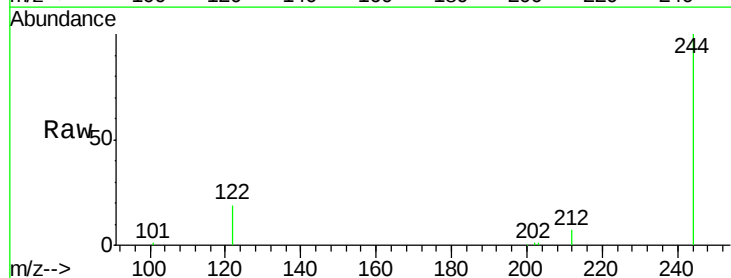
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS32-1014MSD

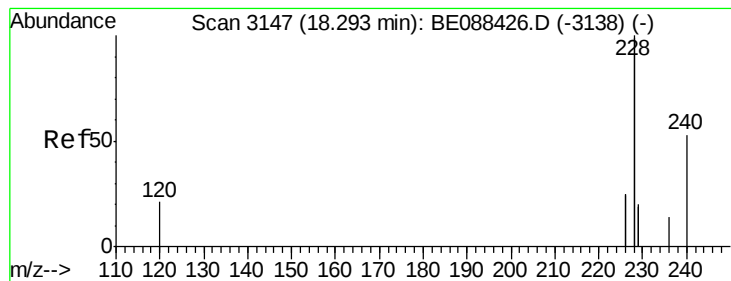
Tgt Ion: 202 Resp: 401490
 Ion Ratio Lower Upper
 202 100
 200 20.8 16.1 24.1
 203 20.2 13.8 20.8



#18
Terphenyl-d14
 Concen: 8.28 ng
 RT: 16.09 min Scan# 2744
 Delta R.T. 0.02 min
 Lab File: BE088448.D
 Acq: 1 Nov 2014 6:26

Tgt Ion: 244 Resp: 74763
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.5 8.3
 122 19.3 15.6 23.4





#19

Benzo(a)anthracene

Concen: 21.97 ng

RT: 18.33 min Scan# 3152

Delta R.T. 0.03 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014MSD

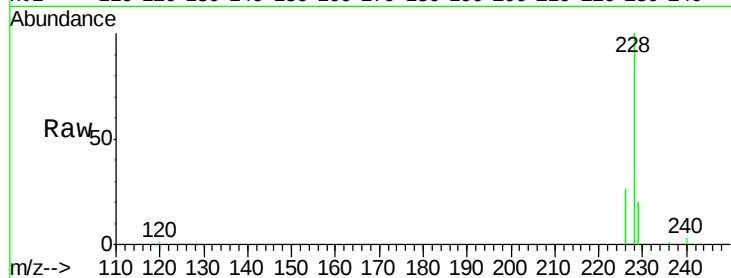
Tgt Ion:228 Resp: 1016719

Ion Ratio Lower Upper

228 100

226 25.9 19.8 29.6

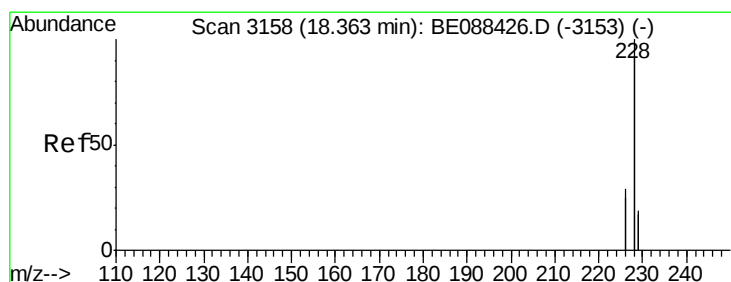
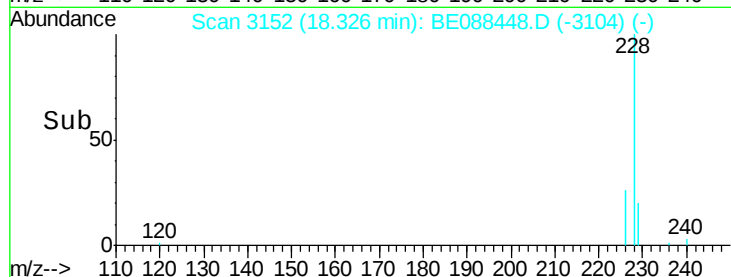
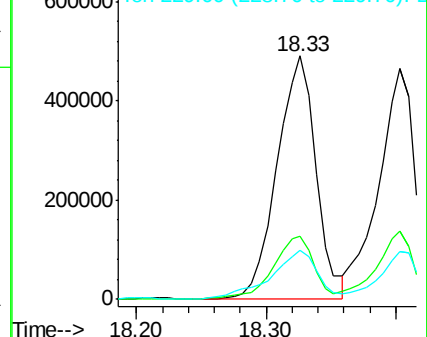
229 20.0 16.0 24.0



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: 19.63 ng

RT: 18.40 min Scan# 3164

Delta R.T. 0.04 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

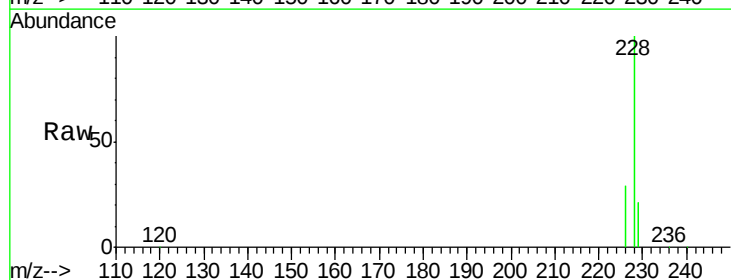
Tgt Ion:228 Resp: 891569

Ion Ratio Lower Upper

228 100

226 29.4 23.6 35.4

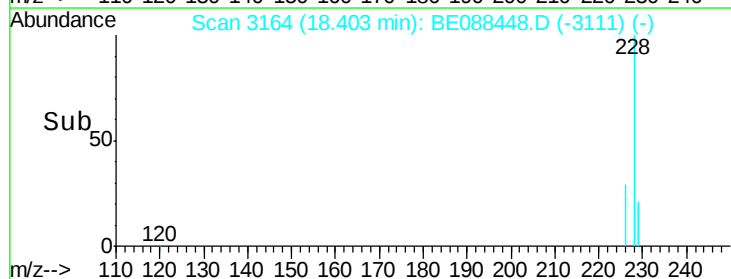
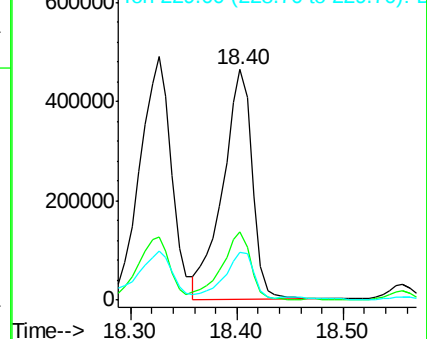
229 20.5 15.4 23.2



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: 16.85 ng

RT: 23.62 min Scan# 4161

Delta R.T. 0.08 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014MSD

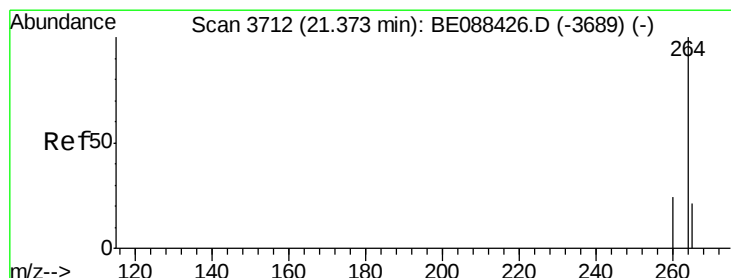
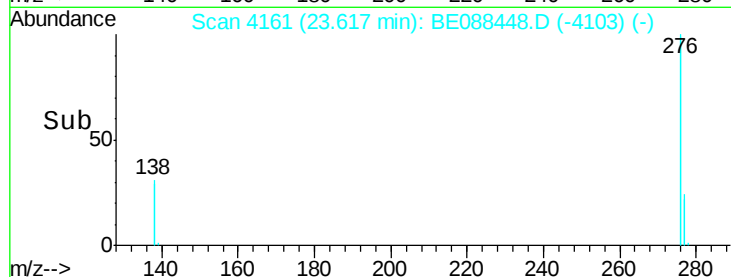
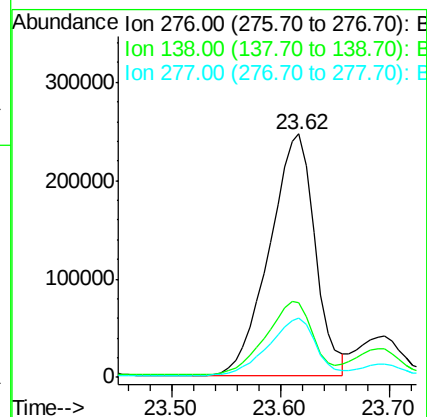
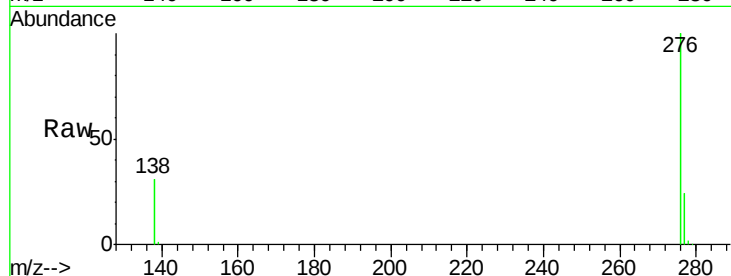
Tgt Ion:276 Resp: 713342

Ion Ratio Lower Upper

276 100

138 31.1 20.2 30.2#

277 24.5 14.8 22.2#



#22

Perylene-d12

Concen: 5.00 ng

RT: 21.41 min Scan# 3719

Delta R.T. 0.03 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

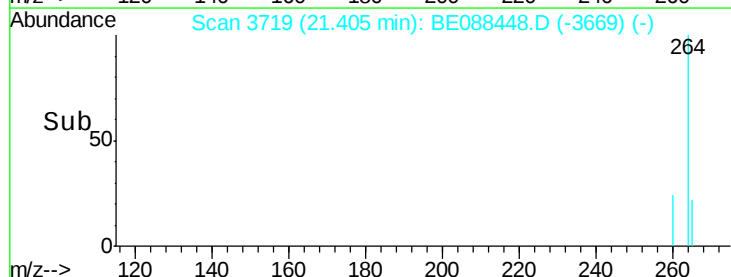
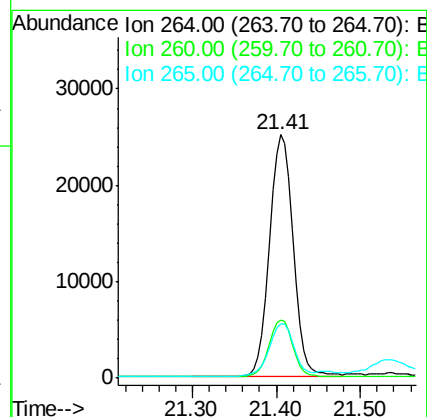
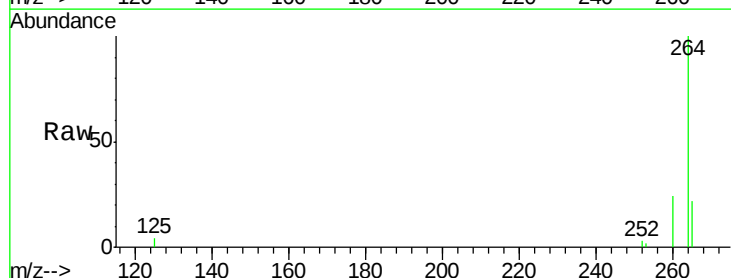
Tgt Ion:264 Resp: 49411

Ion Ratio Lower Upper

264 100

260 24.0 18.9 28.3

265 22.3 17.2 25.8





#23

Benzo(b)fluoranthene

Concen: 25.12 ng

RT: 20.66 min Scan# 3556

Delta R.T. 0.05 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014MSD

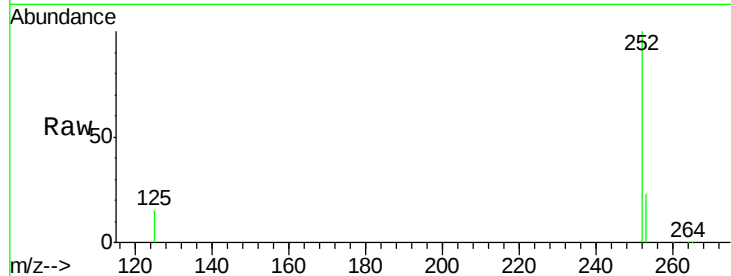
Tgt Ion:252 Resp: 272186

Ion Ratio Lower Upper

252 100

253 22.7 17.8 26.8

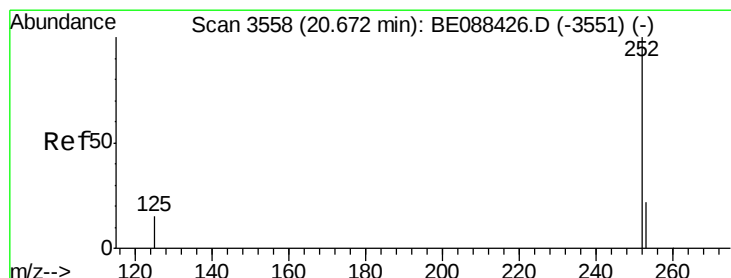
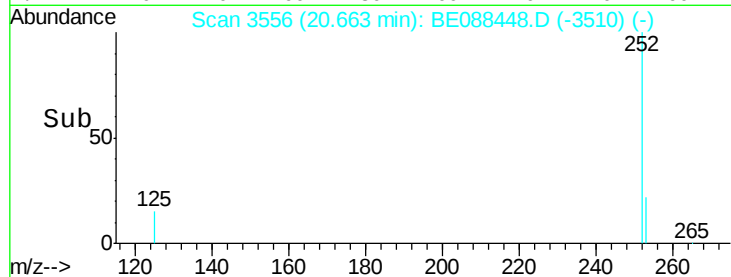
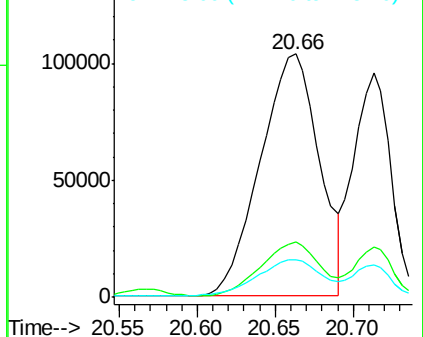
125 15.5 12.3 18.5



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: 13.38 ng

RT: 20.71 min Scan# 3567

Delta R.T. 0.04 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

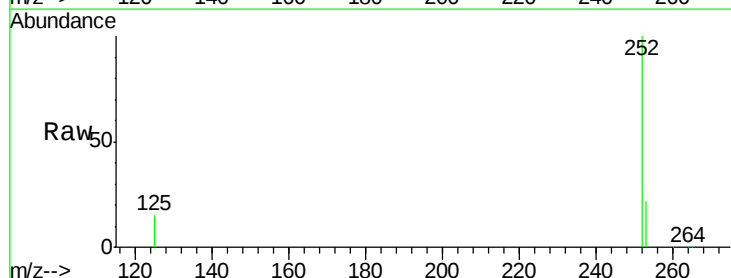
Tgt Ion:252 Resp: 159698

Ion Ratio Lower Upper

252 100

253 22.5 17.8 26.8

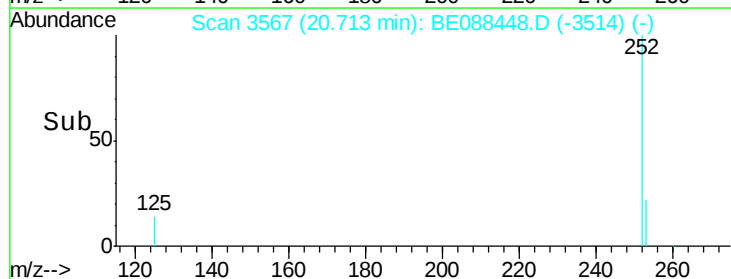
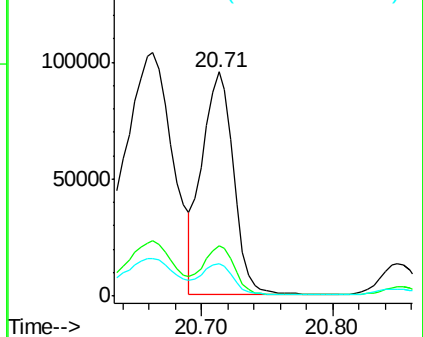
125 14.5 12.2 18.4



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: 19.95 ng

RT: 21.30 min Scan# 3696

Delta R.T. 0.05 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

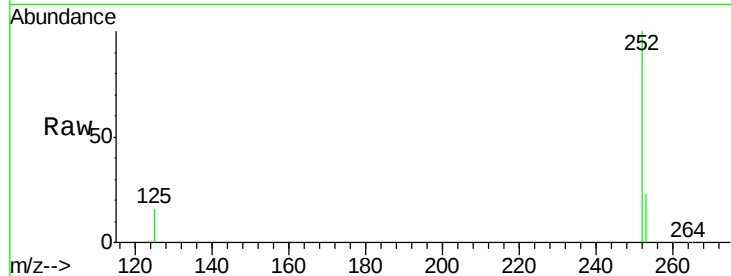
Instrument :

BNA_E

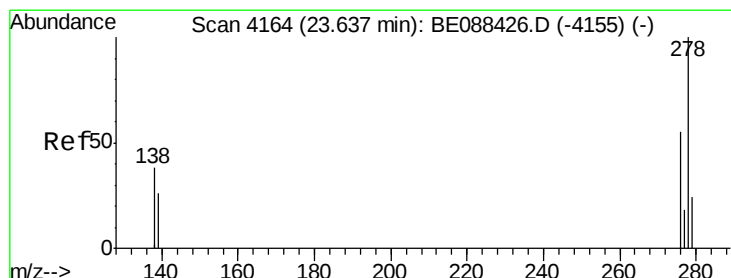
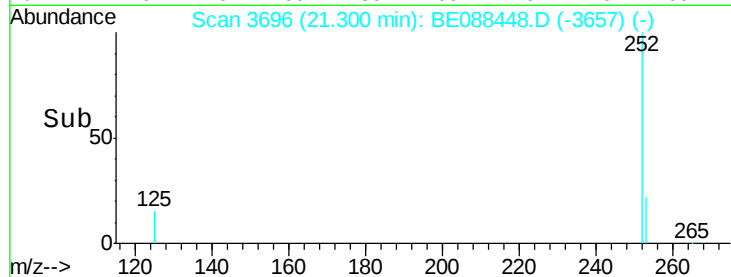
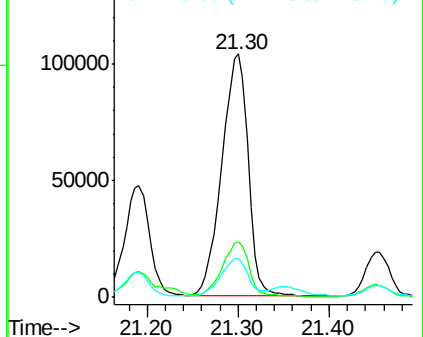
ClientSampleId :

YS19-SS32-1014MSD

Tgt Ion:	252	Resp:	207547
Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.2	27.4
125	15.8	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: 11.38 ng

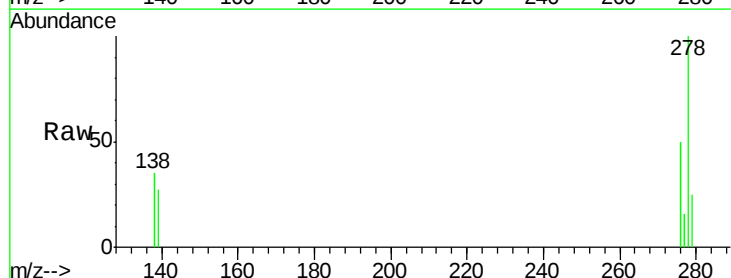
RT: 23.70 min Scan# 4173

Delta R.T. 0.06 min

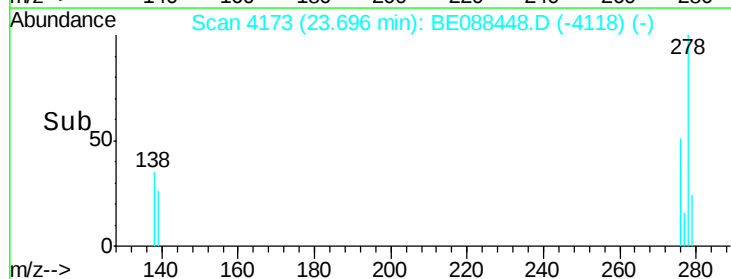
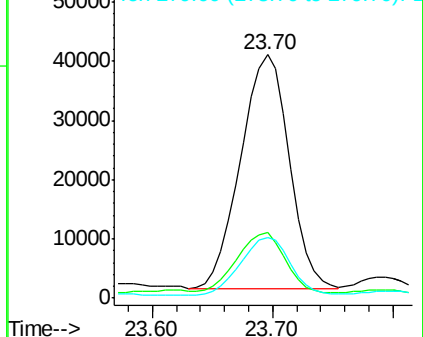
Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

Tgt Ion:	278	Resp:	109990
Ion	Ratio	Lower	Upper
278	100		
139	26.9	22.1	33.1
279	24.9	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: 16.84 ng

RT: 24.26 min Scan# 4260

Delta R.T. 0.10 min

Lab File: BE088448.D

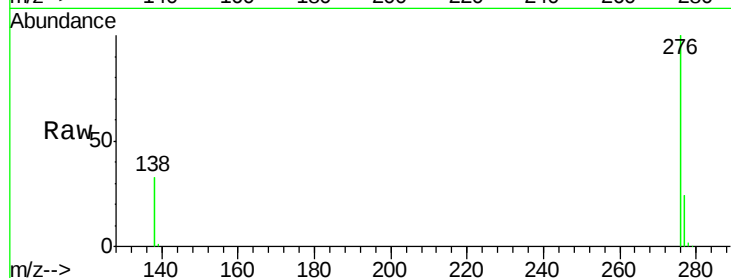
Acq: 1 Nov 2014 6:26

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014MSD



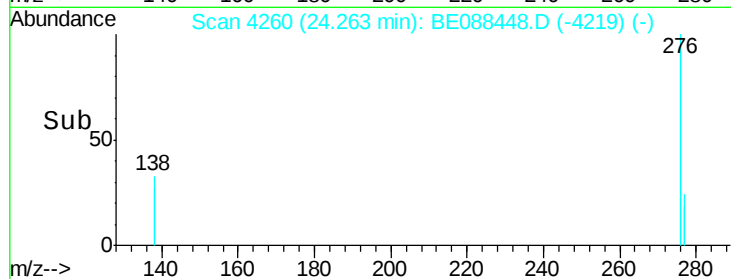
Tgt Ion: 276 Resp: 745979

Ion Ratio Lower Upper

276 100

277 24.2 19.8 29.6

138 32.8 29.3 43.9



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

