

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088471.D
 Acq On : 2 Nov 2014 2:32
 Operator : TP/JJ
 Sample : F4379-01DL 5X
 Misc :
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS32-1014DL

Quant Time: Nov 02 04:24:42 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	27933	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	106815	5.00	ng	0.00
7) Acenaphthene-d10	10.80	164	50615	5.00	ng	0.01
12) Phenanthrene-d10	12.91	188	97200	5.00	ng	0.00
16) Chrysene-d12	18.33	240	61069	5.00	ng	0.02
22) Perylene-d12	21.40	264	59909	5.00	ng	0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.78	82	102453	13.08	ng	0.00
8) 2-Fluorobiphenyl	9.99	172	159663	11.19	ng	0.00
18) Terphenyl-d14	16.09	244	108107	9.64	ng	0.02

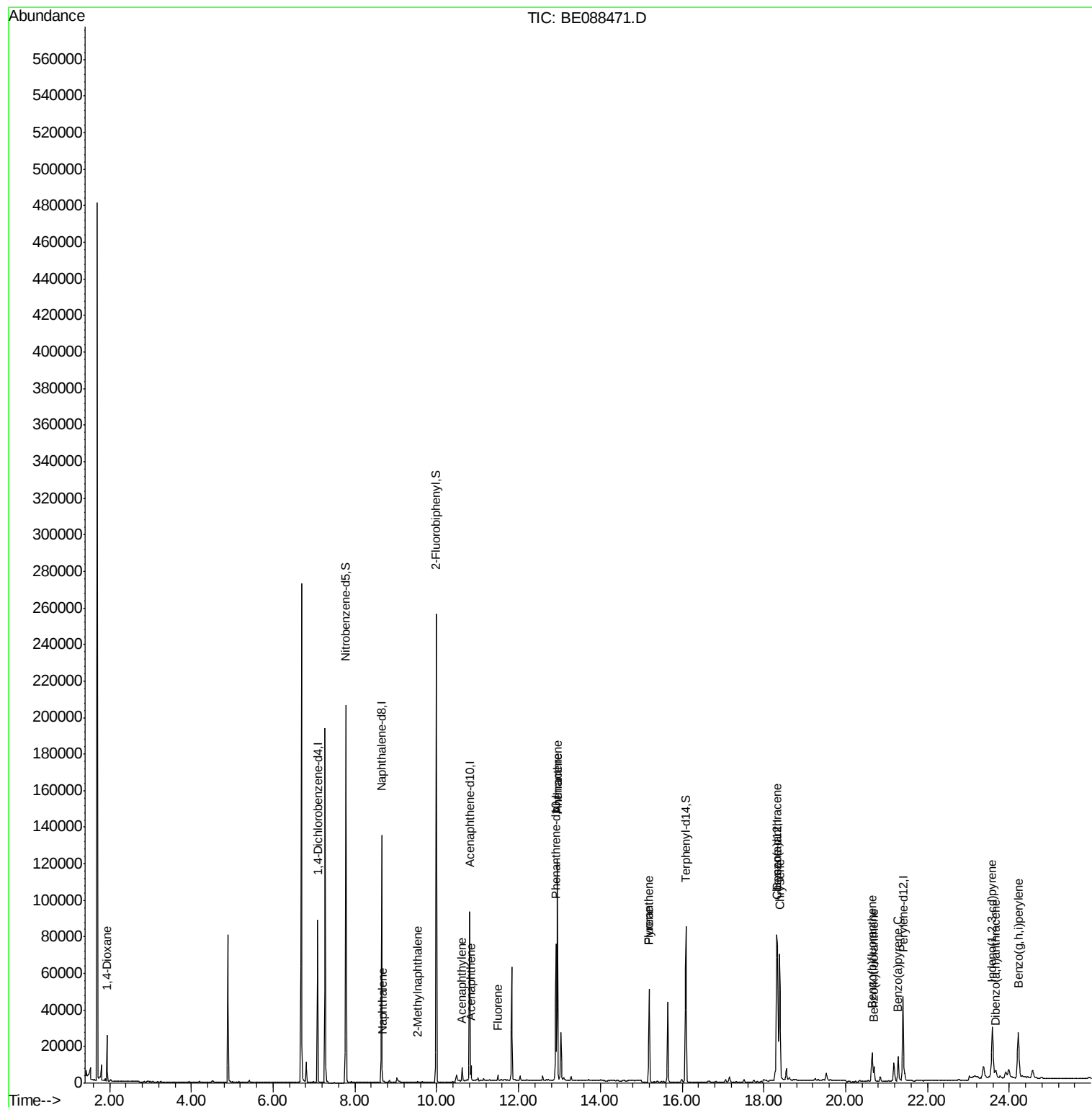
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.93	88	756	0.21	ng	# 1
5) Naphthalene	8.68	128	825	0.04	ng	# 86
6) 2-Methylnaphthalene	9.53	142	353	0.03	ng	# 88
9) Acenaphthylene	10.62	152	9024	0.11	ng	# 94
10) Acenaphthene	10.84	154	1386	0.11	ng	# 85
11) Fluorene	11.50	166	1810	0.14	ng	# 98
13) Phenanthrene	12.95	178	163364	1.85	ng	# 98
14) Anthracene	12.95	178	163364	2.29	ng	# 97
15) Fluoranthene	15.20	202	49740	3.47	ng	# 100
17) Pyrene	15.20	202	49415	2.48	ng	# 100
19) Benzo(a)anthracene	18.31	228	84022	1.46	ng	# 98
20) Chrysene	18.38	228	93004	1.65	ng	# 98
21) Indeno(1,2,3-cd)pyrene	23.58	276	49069	0.93	ng	# 83
23) Benzo(b)fluoranthene	20.64	252	27773	2.11	ng	# 95
24) Benzo(k)fluoranthene	20.69	252	10209	0.71	ng	# 93
25) Benzo(a)pyrene	21.28	252	18053	1.43	ng	# 96
26) Dibenzo(a,h)anthracene	23.67	278	3142	0.27	ng	# 69
27) Benzo(g,h,i)perylene	24.22	276	47912	0.89	ng	# 95

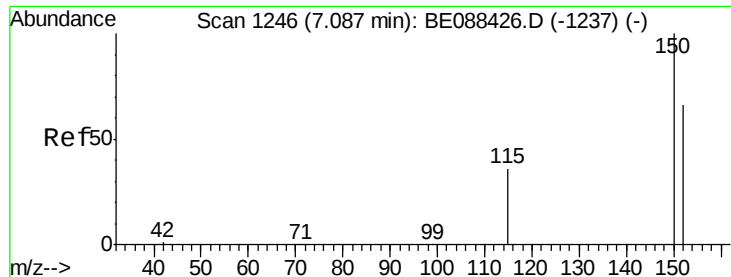
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE088471.D

Acq: 2 Nov 2014 2:32

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014DL

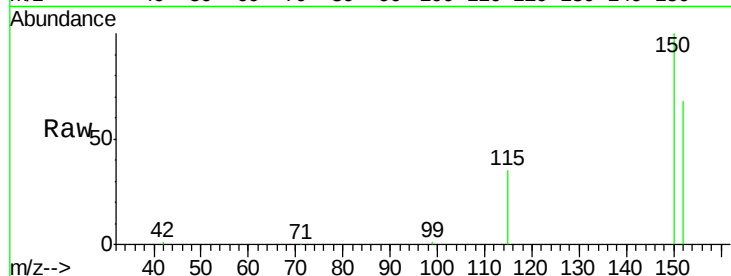
Tgt Ion:152 Resp: 27933

Ion Ratio Lower Upper

152 100

150 147.4 121.8 182.8

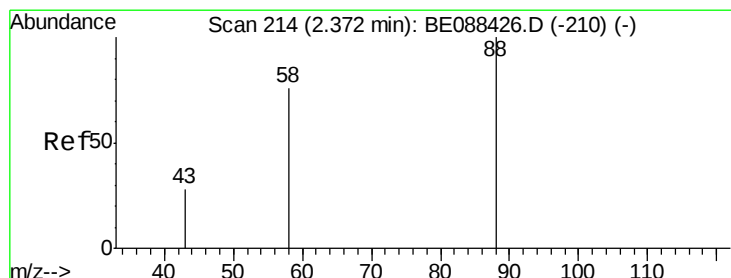
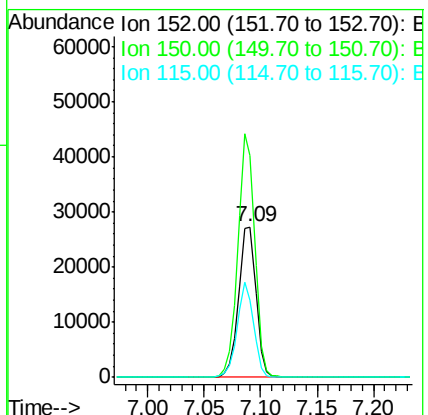
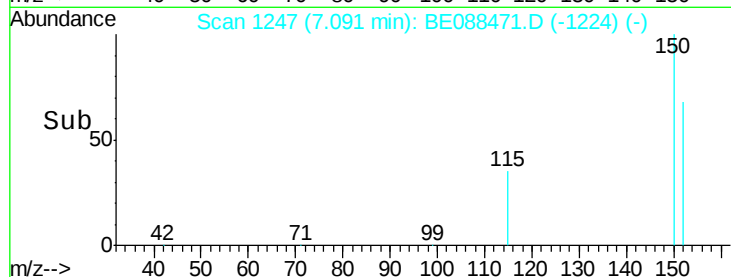
115 51.7 43.9 65.9



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



#2

1,4-Dioxane

Concen: 0.21 ng

RT: 1.93 min Scan# 118

Delta R.T. -0.44 min

Lab File: BE088471.D

Acq: 2 Nov 2014 2:32

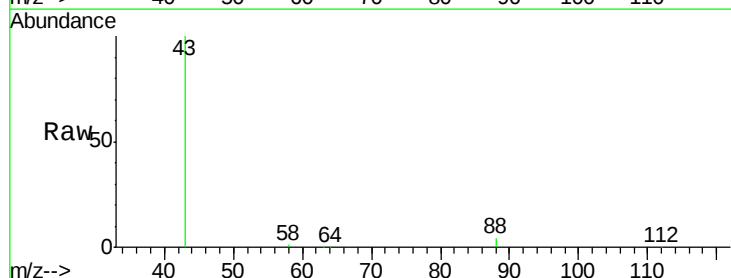
Tgt Ion: 88 Resp: 756

Ion Ratio Lower Upper

88 100

58 28.0 59.1 88.7#

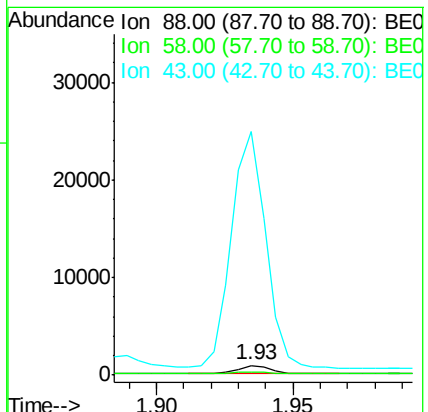
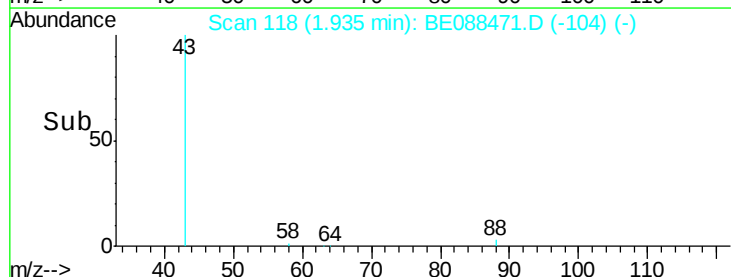
43 2813.8 21.9 32.9#

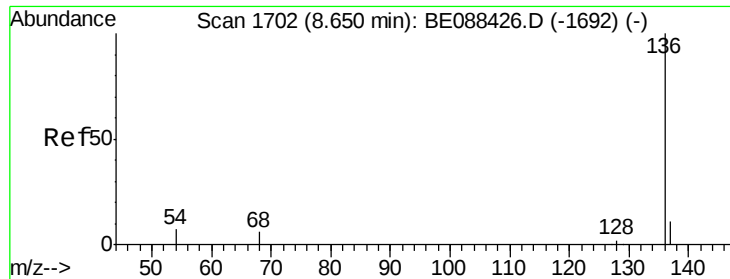


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

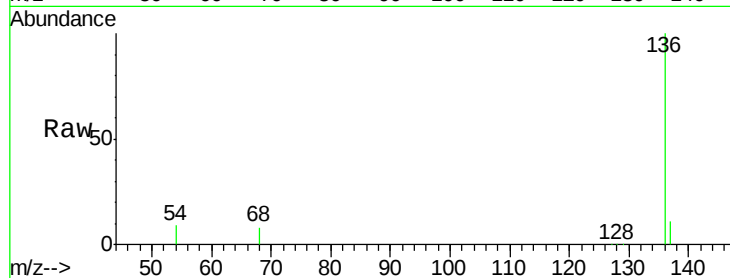




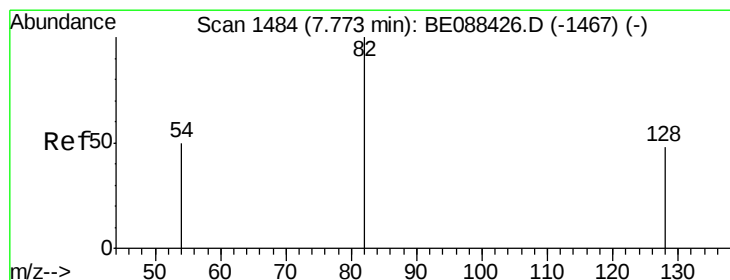
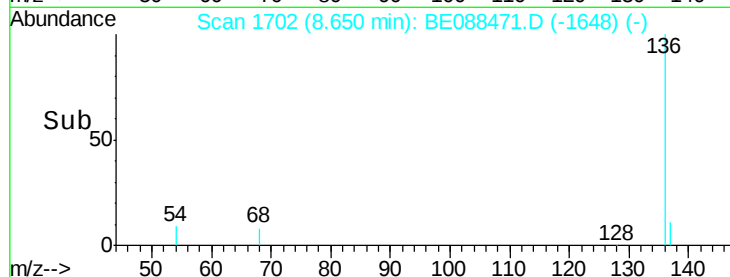
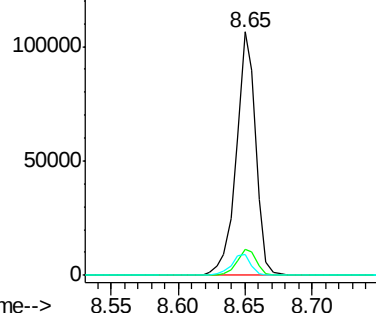
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.65 min Scan# 1702
Delta R.T. 0.00 min
Lab File: BE088471.D
Acq: 2 Nov 2014 2:32

Instrument :
BNA_E
ClientSampleId :
YS19-SS32-1014DL

Tgt Ion: 136 Resp: 106815
Ion Ratio Lower Upper
136 100
137 10.7 8.8 13.2
54 8.6 5.3 7.9#

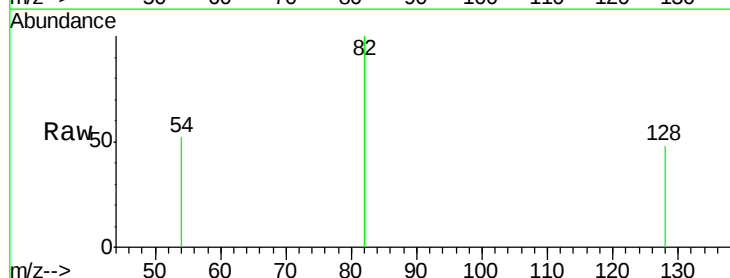


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0

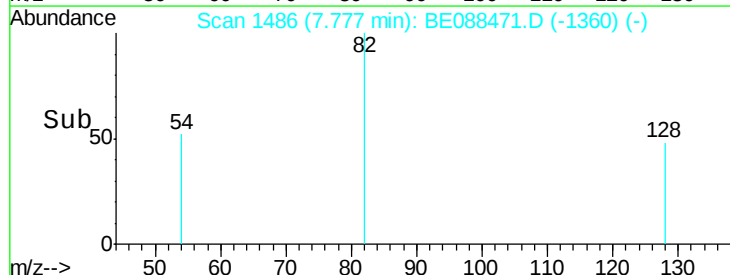
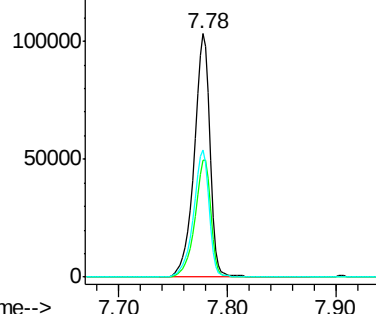


#4
Nitrobenzene-d5
Concen: 13.08 ng
RT: 7.78 min Scan# 1486
Delta R.T. 0.00 min
Lab File: BE088471.D
Acq: 2 Nov 2014 2:32

Tgt Ion: 82 Resp: 102453
Ion Ratio Lower Upper
82 100
128 48.0 38.4 57.6
54 52.2 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





#5

Naphthalene

Concen: 0.04 ng

RT: 8.68 min Scan# 1707

Delta R.T. 0.01 min

Lab File: BE088471.D

Acq: 2 Nov 2014 2:32

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014DL

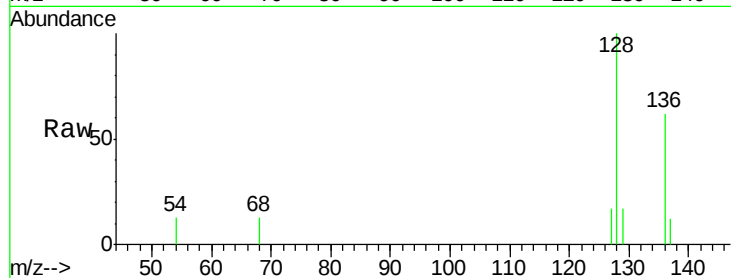
Tgt Ion:128 Resp: 825

Ion Ratio Lower Upper

128 100

129 17.1 8.6 12.8#

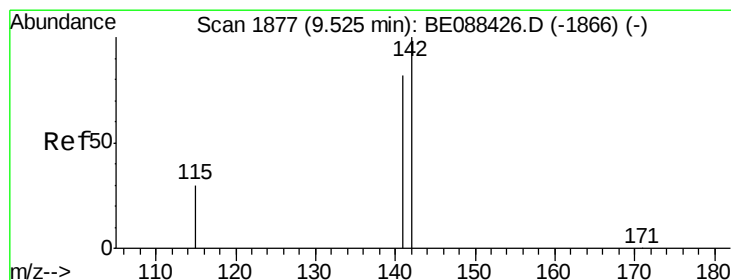
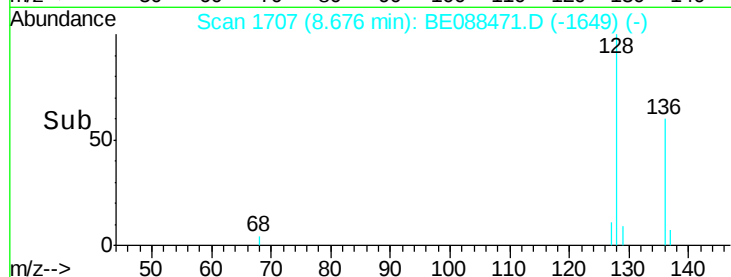
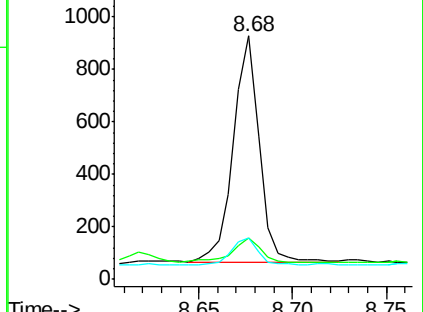
127 17.0 10.1 15.1#



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: 0.03 ng

RT: 9.53 min Scan# 1878

Delta R.T. 0.00 min

Lab File: BE088471.D

Acq: 2 Nov 2014 2:32

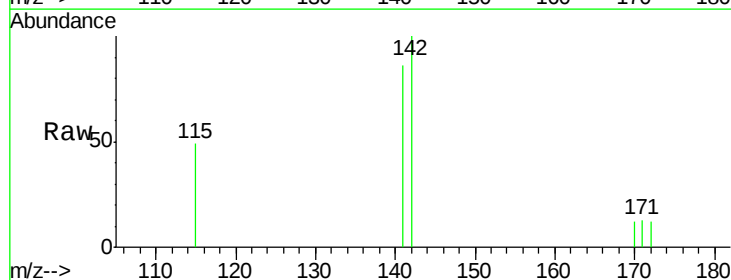
Tgt Ion:142 Resp: 353

Ion Ratio Lower Upper

142 100

141 86.4 65.8 98.8

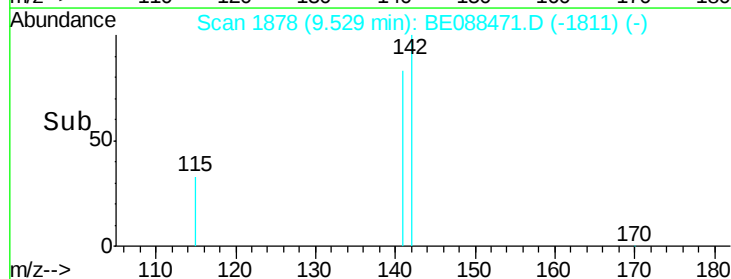
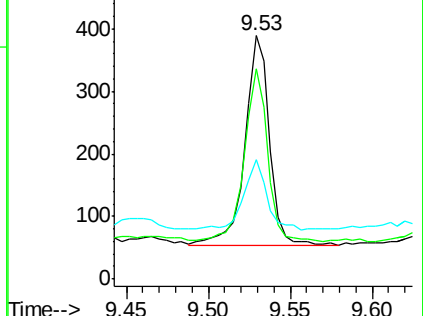
115 48.8 24.2 36.4#



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: BE088471.D

Acq: 2 Nov 2014 2:32

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014DL

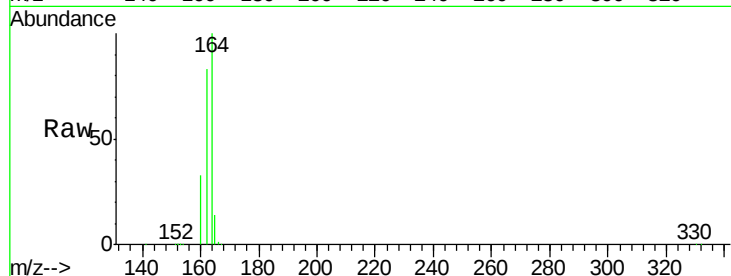
Tgt Ion:164 Resp: 50615

Ion Ratio Lower Upper

164 100

162 82.7 77.0 115.4

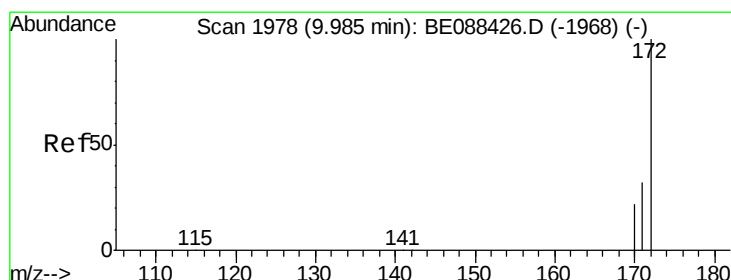
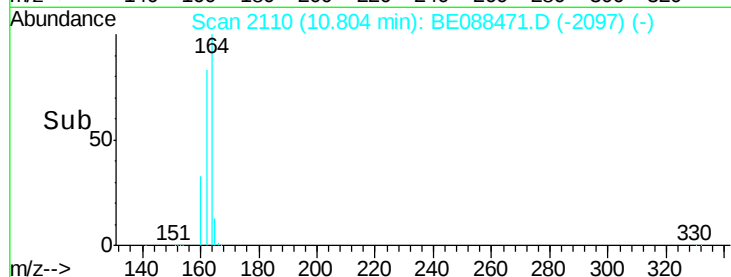
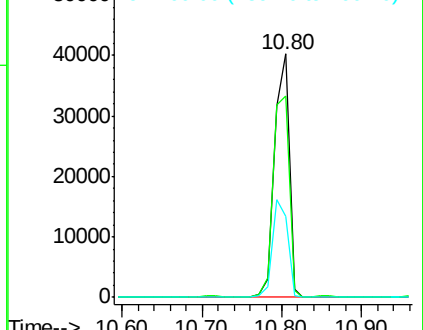
160 33.1 36.8 55.2#



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: 11.19 ng

RT: 9.99 min Scan# 1979

Delta R.T. 0.00 min

Lab File: BE088471.D

Acq: 2 Nov 2014 2:32

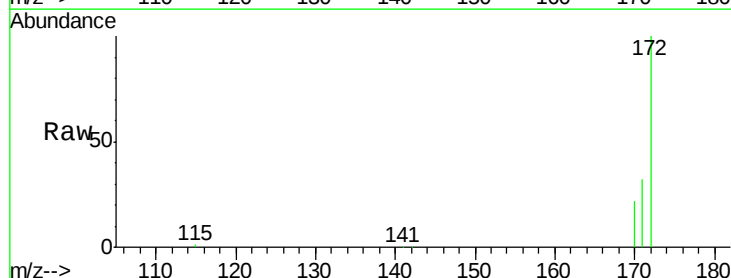
Tgt Ion:172 Resp: 159663

Ion Ratio Lower Upper

172 100

171 32.4 26.0 39.0

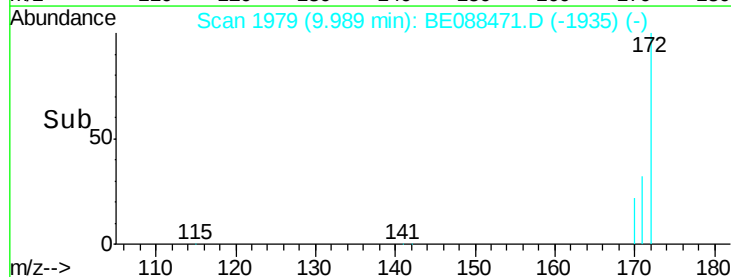
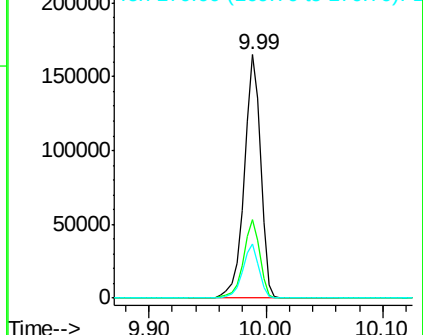
170 22.4 17.6 26.4

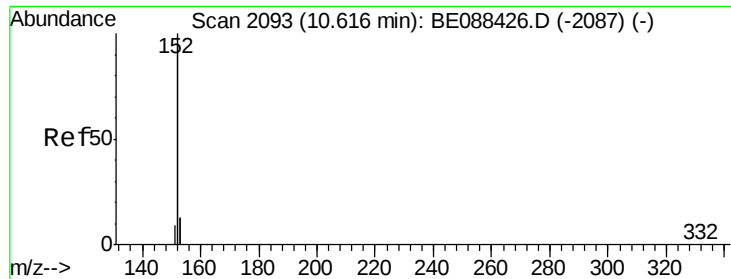


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 0.11 ng

RT: 10.62 min Scan# 2093

Delta R.T. 0.00 min

Lab File: BE088471.D

Acq: 2 Nov 2014 2:32

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014DL

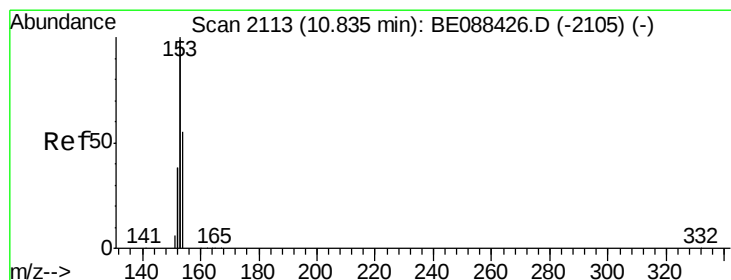
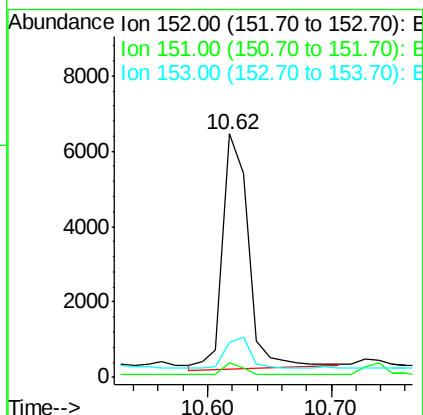
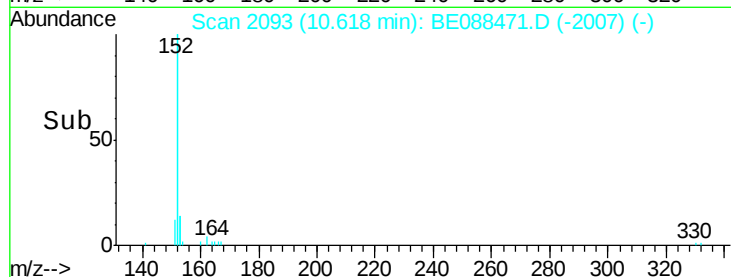
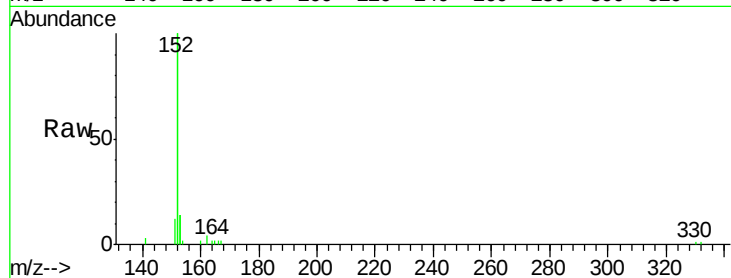
Tgt Ion:152 Resp: 9024

Ion Ratio Lower Upper

152 100

151 4.2 4.4 6.6#

153 15.7 10.5 15.7



#10

Acenaphthene

Concen: 0.11 ng

RT: 10.84 min Scan# 2113

Delta R.T. 0.00 min

Lab File: BE088471.D

Acq: 2 Nov 2014 2:32

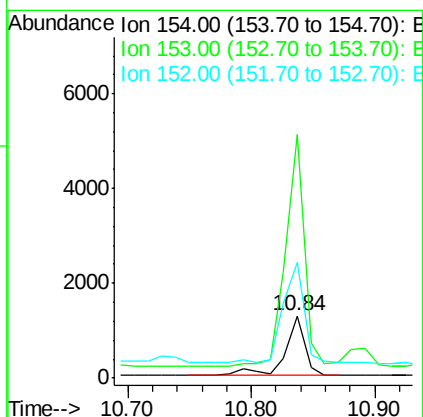
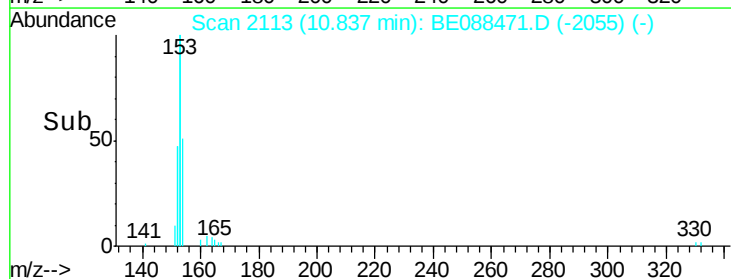
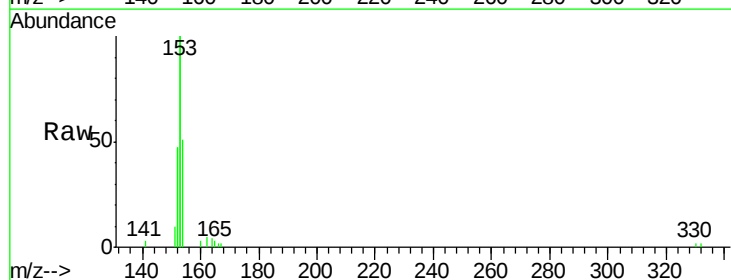
Tgt Ion:154 Resp: 1386

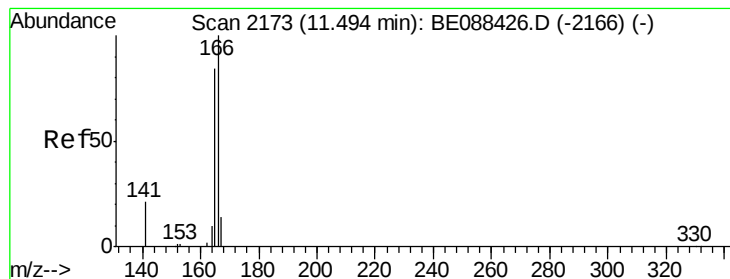
Ion Ratio Lower Upper

154 100

153 360.6 324.3 486.5

152 180.8 154.9 232.3





#11

Fluorene

Concen: 0.14 ng

RT: 11.50 min Scan# 2173

Delta R.T. 0.00 min

Lab File: BE088471.D

Acq: 2 Nov 2014 2:32

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014DL

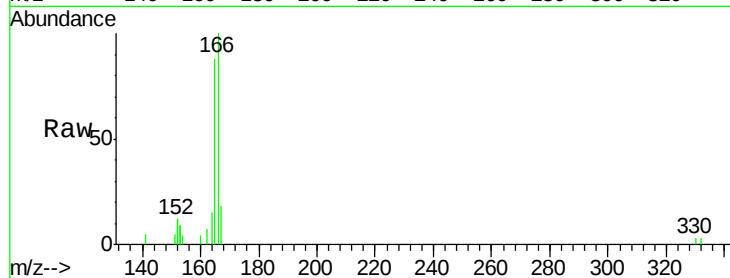
Tgt Ion:166 Resp: 1810

Ion Ratio Lower Upper

166 100

165 87.6 71.3 106.9

167 14.4 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

11.50

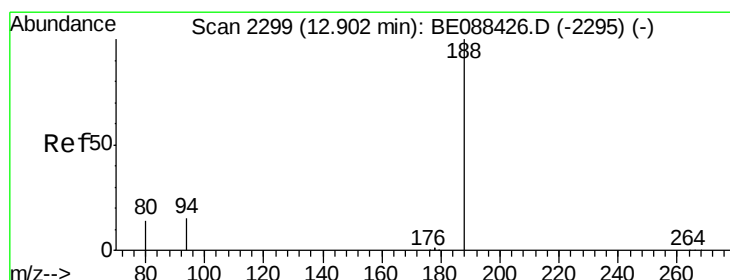
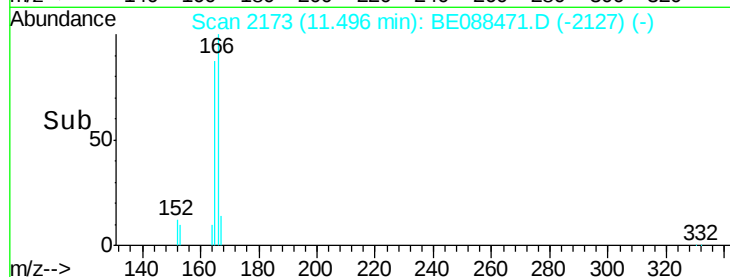
1500

1000

500

0

Time--> 11.30 11.40 11.50 11.60



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.91 min Scan# 2300

Delta R.T. 0.01 min

Lab File: BE088471.D

Acq: 2 Nov 2014 2:32

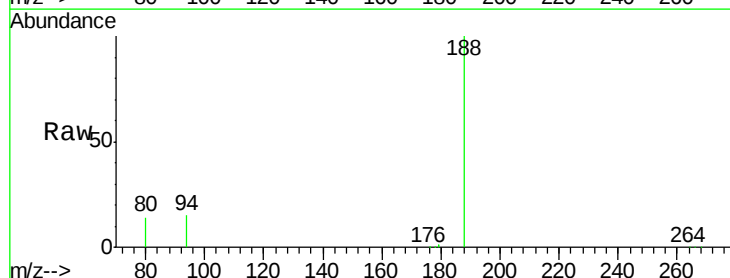
Tgt Ion:188 Resp: 97200

Ion Ratio Lower Upper

188 100

94 15.4 11.8 17.8

80 14.1 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

12.91

80000

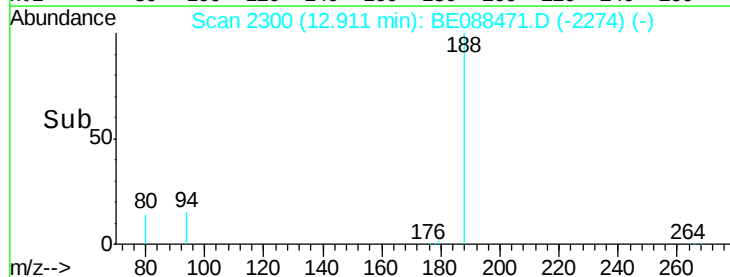
60000

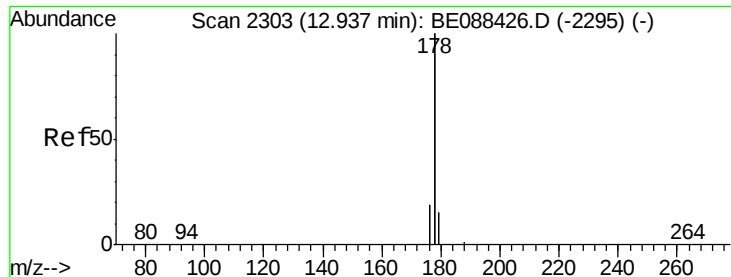
40000

20000

0

Time--> 12.80 12.90 13.00





#13

Phenanthrene

Concen: 1.85 ng

RT: 12.95 min Scan# 2305

Delta R.T. 0.02 min

Lab File: BE088471.D

Acq: 2 Nov 2014 2:32

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014DL

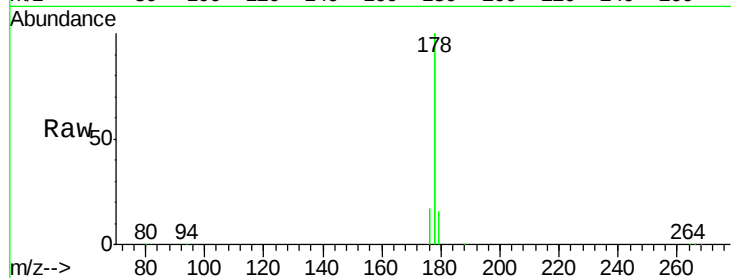
Tgt Ion:178 Resp: 163364

Ion Ratio Lower Upper

178 100

176 20.1 15.4 23.2

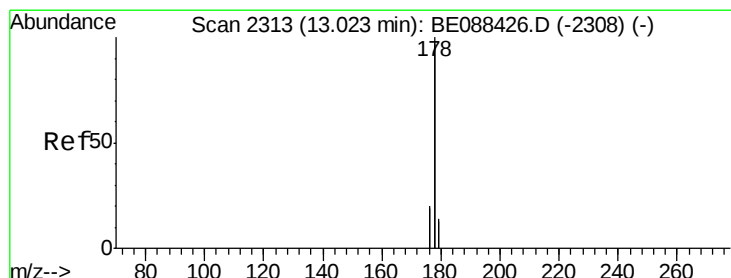
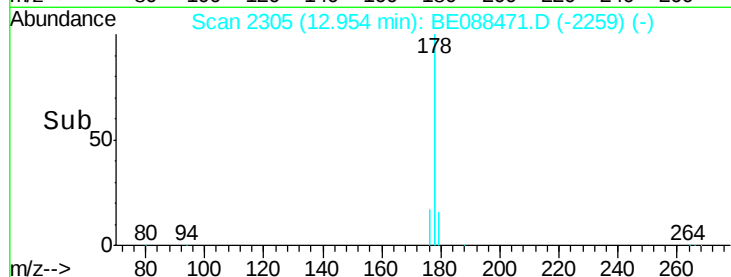
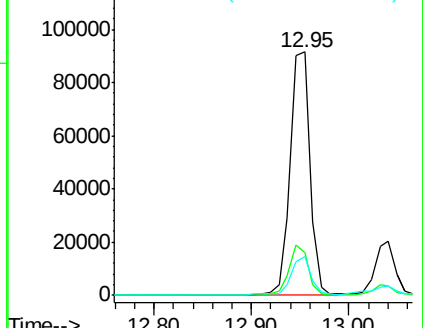
179 16.8 12.8 19.2



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: 2.29 ng

RT: 12.95 min Scan# 2305

Delta R.T. -0.07 min

Lab File: BE088471.D

Acq: 2 Nov 2014 2:32

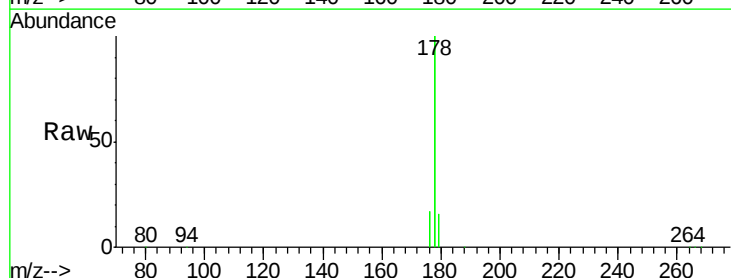
Tgt Ion:178 Resp: 163364

Ion Ratio Lower Upper

178 100

176 20.1 15.0 22.4

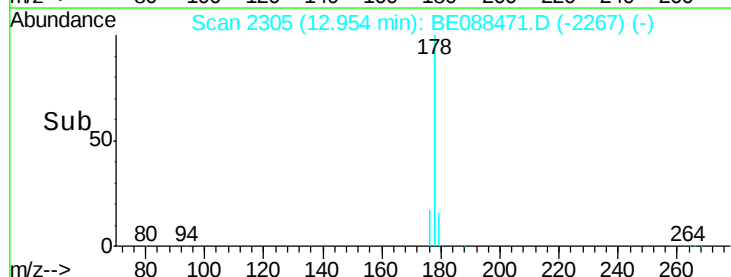
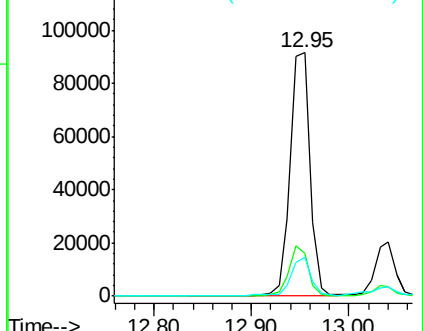
179 16.8 12.5 18.7

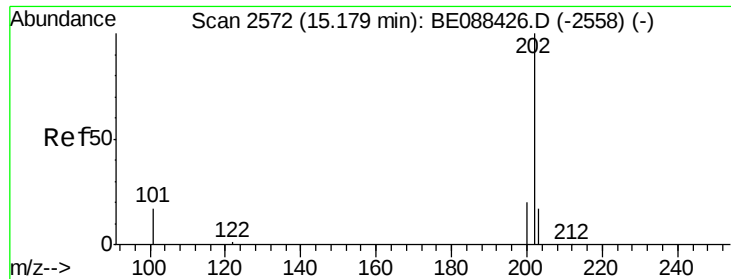


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

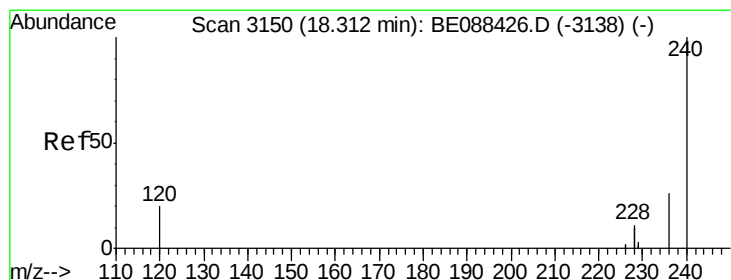
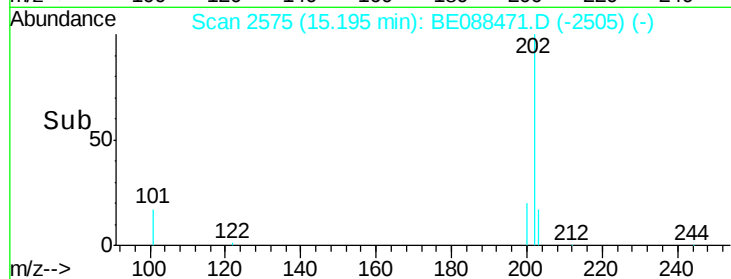
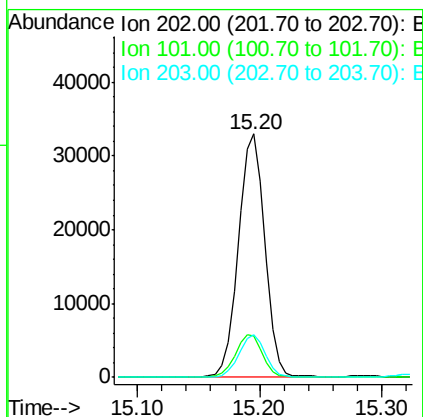
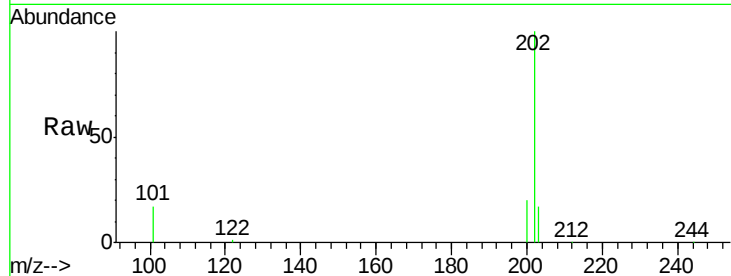




#15
 Fluoranthene
 Concen: 3.47 ng
 RT: 15.20 min Scan# 2575
 Delta R.T. 0.02 min
 Lab File: BE088471.D
 Acq: 2 Nov 2014 2:32

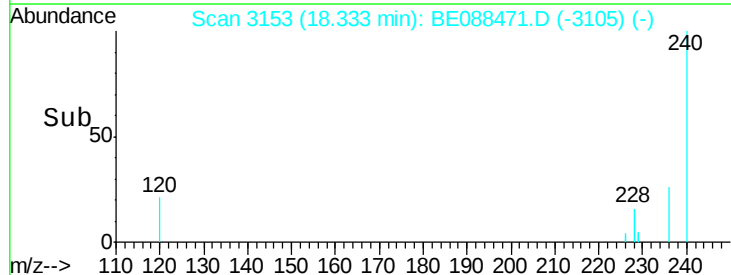
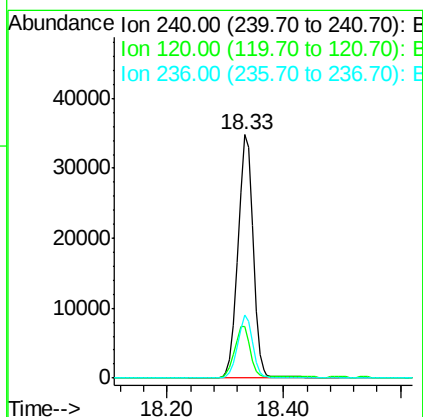
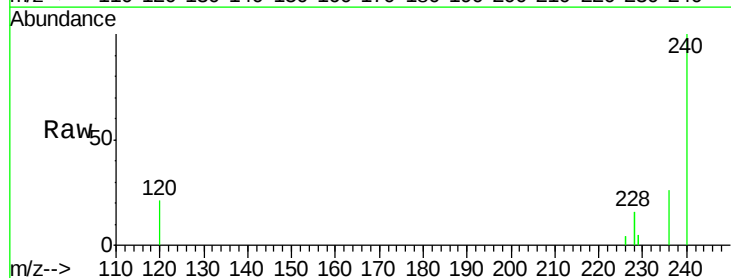
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS32-1014DL

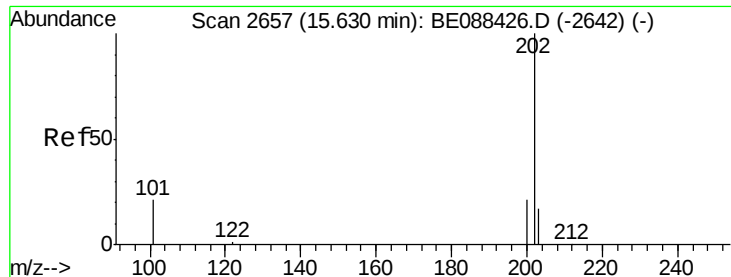
Tgt Ion: 202 Resp: 49740
 Ion Ratio Lower Upper
 202 100
 101 17.6 14.3 21.5
 203 17.1 13.6 20.4



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.33 min Scan# 3153
 Delta R.T. 0.02 min
 Lab File: BE088471.D
 Acq: 2 Nov 2014 2:32

Tgt Ion: 240 Resp: 61069
 Ion Ratio Lower Upper
 240 100
 120 21.3 16.4 24.6
 236 26.1 20.5 30.7





#17

Pyrene

Concen: 2.48 ng

RT: 15.20 min Scan# 2575

Delta R.T. -0.43 min

Lab File: BE088471.D

Acq: 2 Nov 2014 2:32

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014DL

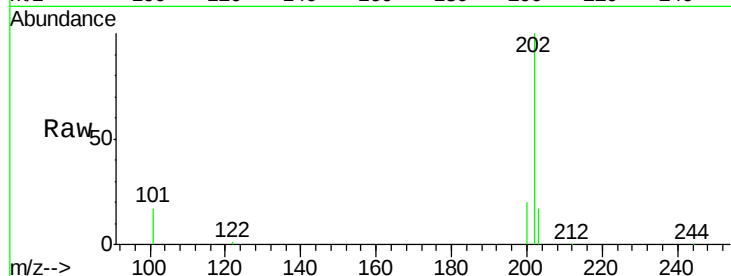
Tgt Ion: 202 Resp: 49415

Ion Ratio Lower Upper

202 100

200 19.8 16.1 24.1

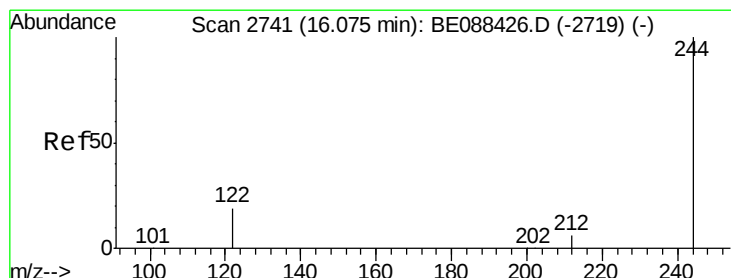
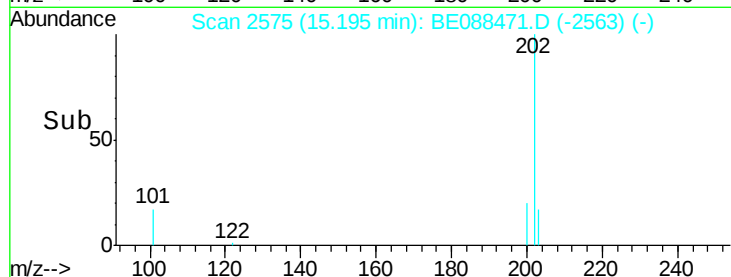
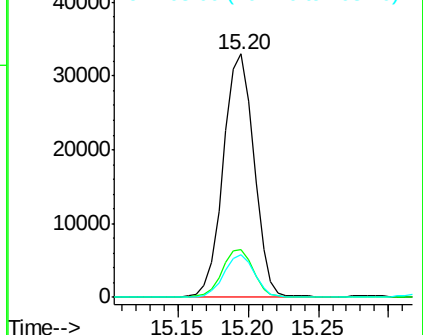
203 17.2 13.8 20.8



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: 9.64 ng

RT: 16.09 min Scan# 2744

Delta R.T. 0.02 min

Lab File: BE088471.D

Acq: 2 Nov 2014 2:32

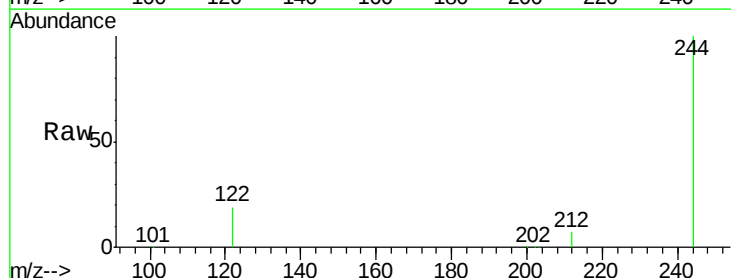
Tgt Ion: 244 Resp: 108107

Ion Ratio Lower Upper

244 100

212 6.7 5.5 8.3

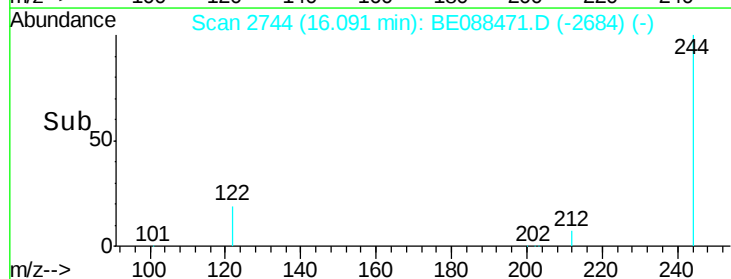
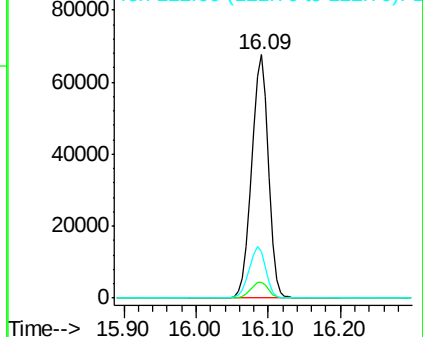
122 19.2 15.6 23.4



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: 1.46 ng

RT: 18.31 min Scan# 3150

Delta R.T. 0.02 min

Lab File: BE088471.D

Acq: 2 Nov 2014 2:32

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014DL

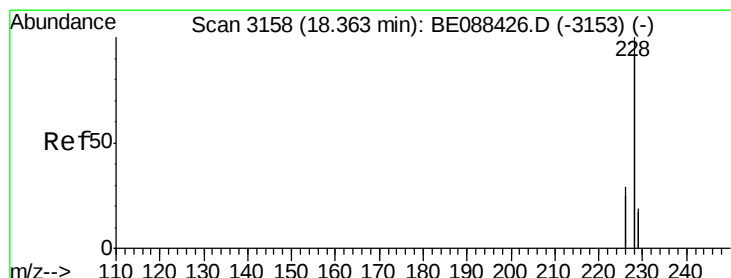
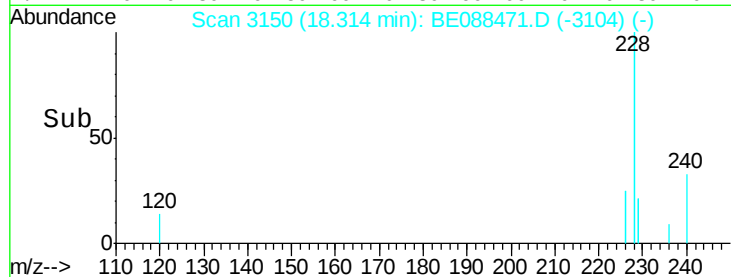
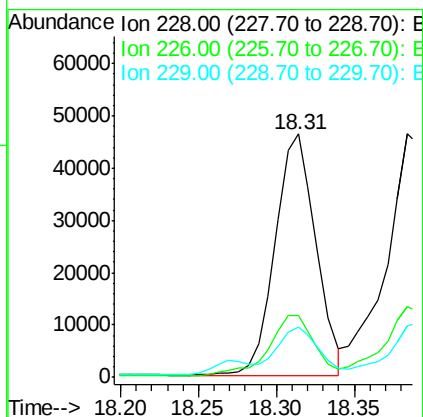
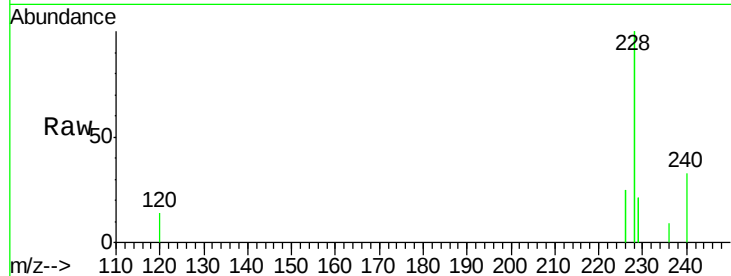
Tgt Ion:228 Resp: 84022

Ion Ratio Lower Upper

228 100

226 25.4 19.8 29.6

229 20.9 16.0 24.0



#20

Chrysene

Concen: 1.65 ng

RT: 18.38 min Scan# 3161

Delta R.T. 0.02 min

Lab File: BE088471.D

Acq: 2 Nov 2014 2:32

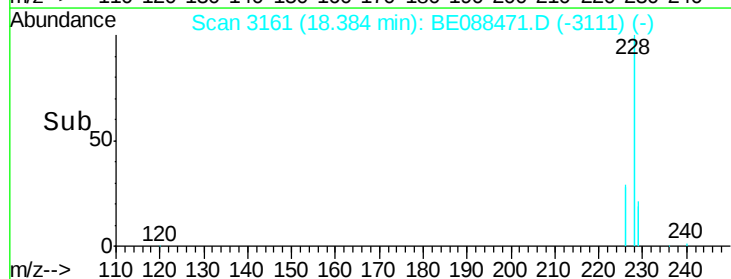
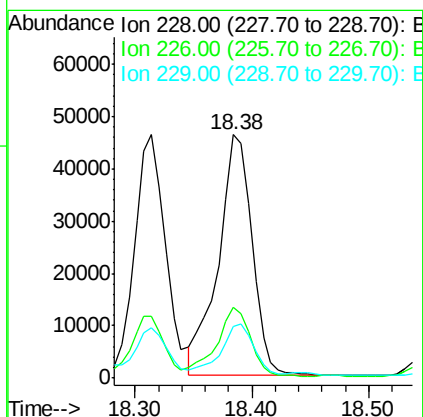
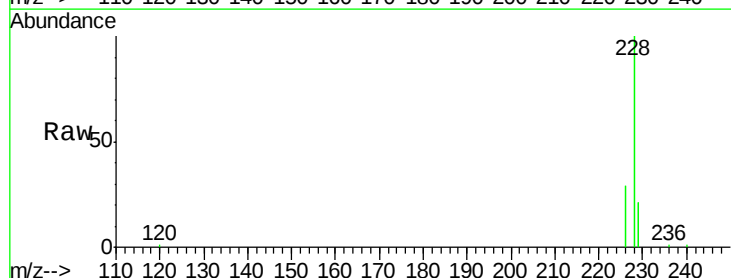
Tgt Ion:228 Resp: 93004

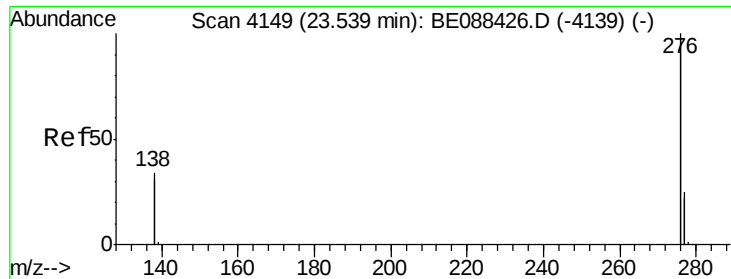
Ion Ratio Lower Upper

228 100

226 29.3 23.6 35.4

229 21.2 15.4 23.2





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.93 ng

RT: 23.58 min Scan# 4156

Delta R.T. 0.05 min

Lab File: BE088471.D

Acq: 2 Nov 2014 2:32

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014DL

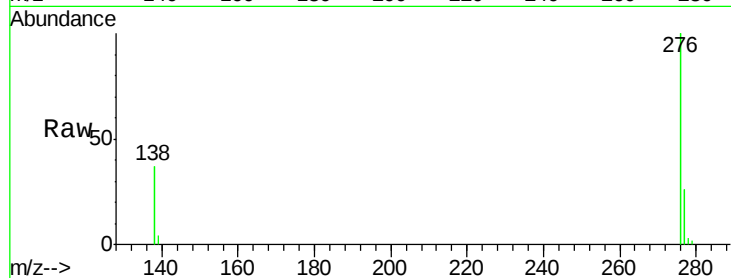
Tgt Ion: 276 Resp: 49069

Ion Ratio Lower Upper

276 100

138 34.7 20.2 30.2#

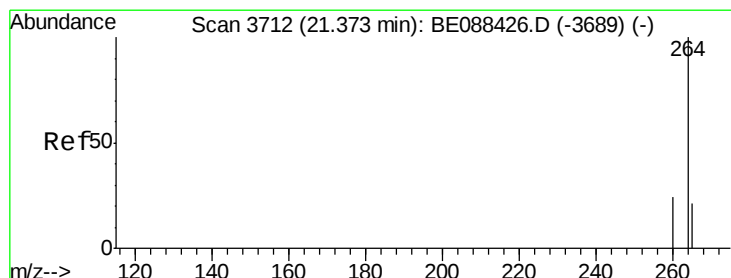
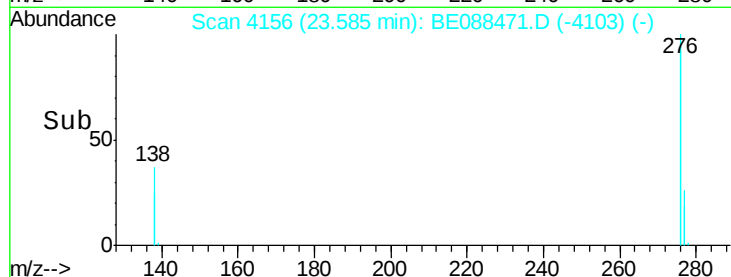
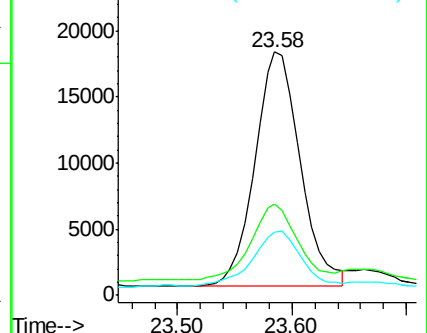
277 24.4 14.8 22.2#



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: 21.40 min Scan# 3718

Delta R.T. 0.03 min

Lab File: BE088471.D

Acq: 2 Nov 2014 2:32

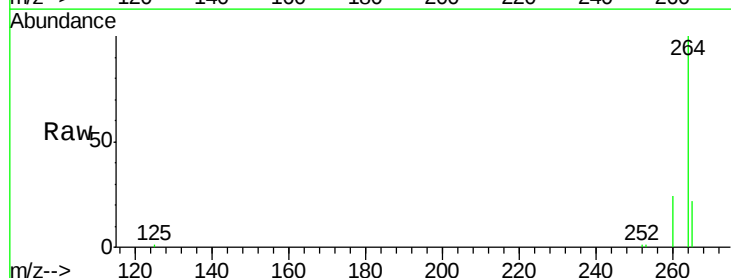
Tgt Ion: 264 Resp: 59909

Ion Ratio Lower Upper

264 100

260 24.0 18.9 28.3

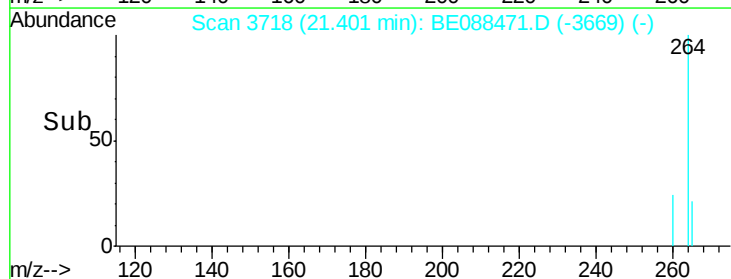
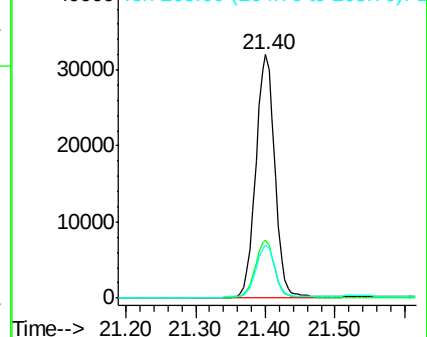
265 21.6 17.2 25.8



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: 2.11 ng

RT: 20.64 min Scan# 3552

Delta R.T. 0.03 min

Lab File: BE088471.D

Acq: 2 Nov 2014 2:32

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014DL

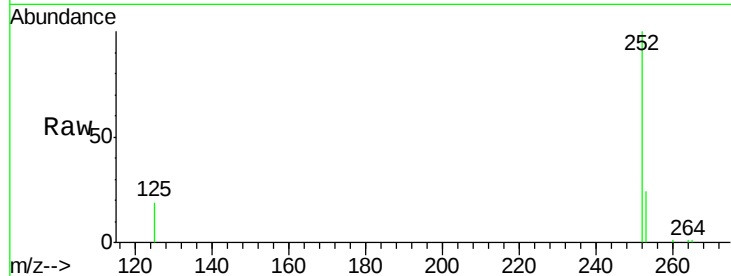
Tgt Ion:252 Resp: 27773

Ion Ratio Lower Upper

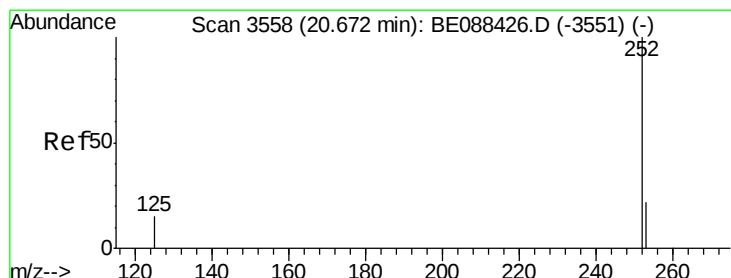
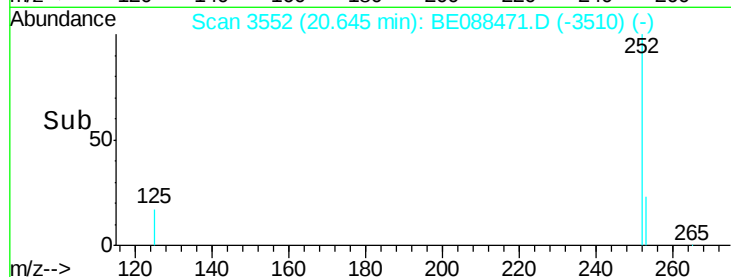
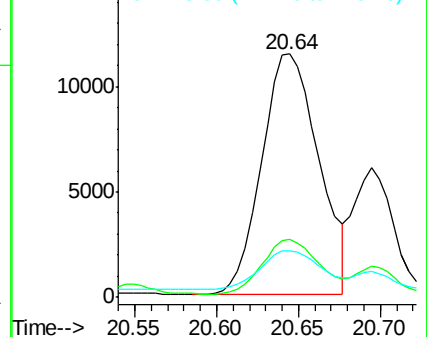
252 100

253 23.6 17.8 26.8

125 19.2 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: 0.71 ng

RT: 20.69 min Scan# 3563

Delta R.T. 0.02 min

Lab File: BE088471.D

Acq: 2 Nov 2014 2:32

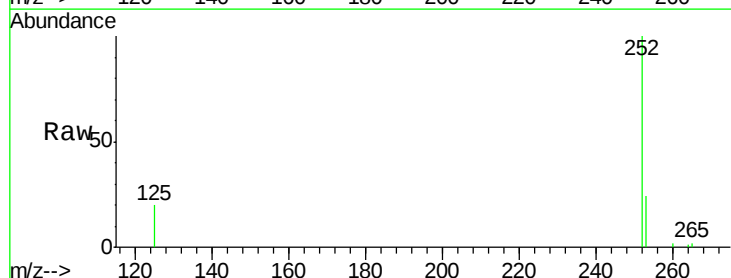
Tgt Ion:252 Resp: 10209

Ion Ratio Lower Upper

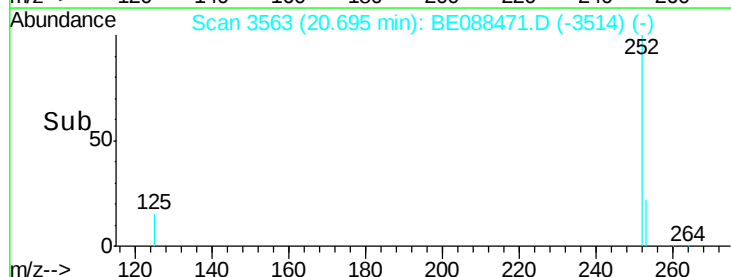
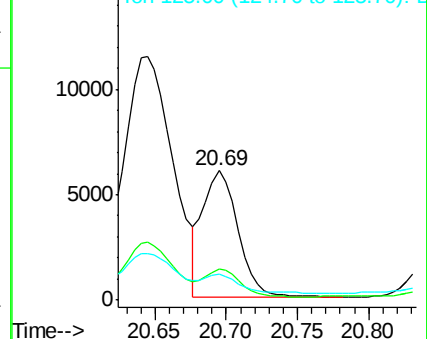
252 100

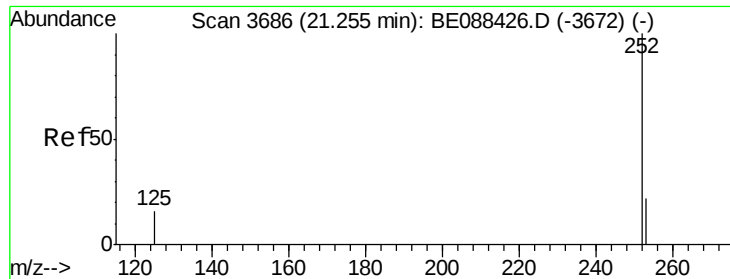
253 24.0 17.8 26.8

125 20.5 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: 1.43 ng

RT: 21.28 min Scan# 3692

Delta R.T. 0.03 min

Lab File: BE088471.D

Acq: 2 Nov 2014 2:32

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014DL

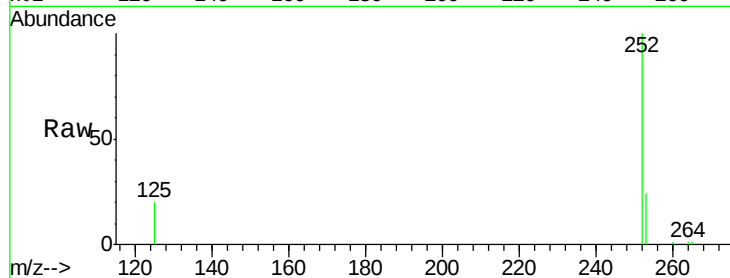
Tgt Ion: 252 Resp: 18053

Ion Ratio Lower Upper

252 100

253 24.3 18.2 27.4

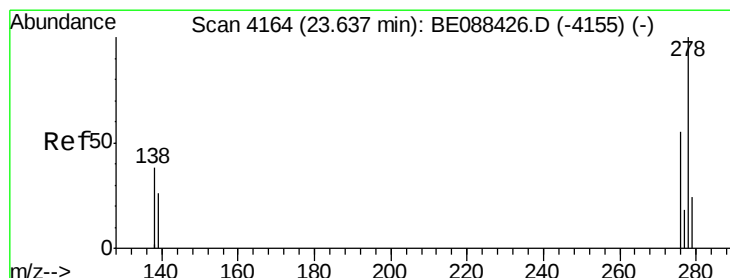
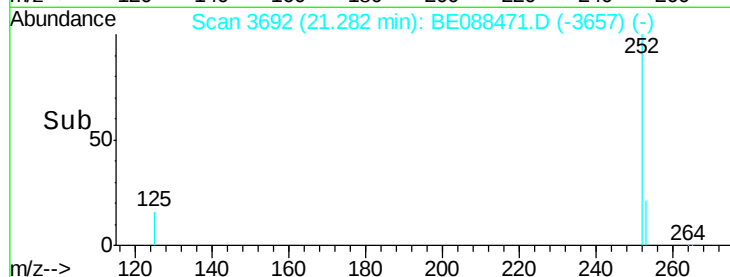
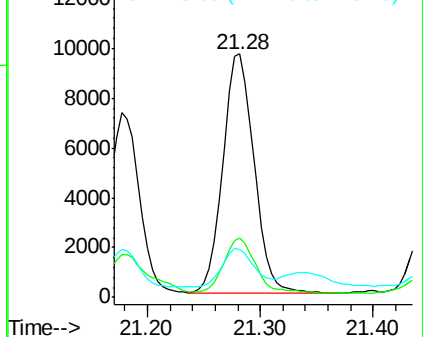
125 19.9 13.7 20.5



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: 0.27 ng

RT: 23.67 min Scan# 4169

Delta R.T. 0.03 min

Lab File: BE088471.D

Acq: 2 Nov 2014 2:32

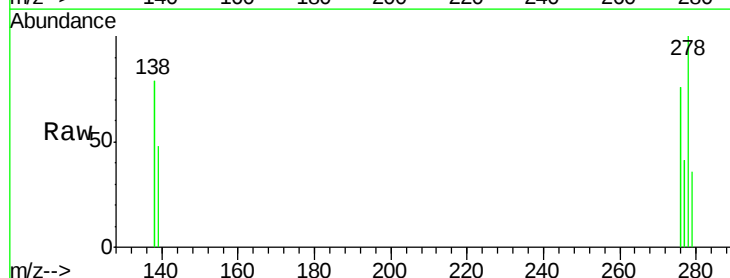
Tgt Ion: 278 Resp: 3142

Ion Ratio Lower Upper

278 100

139 48.0 22.1 33.1#

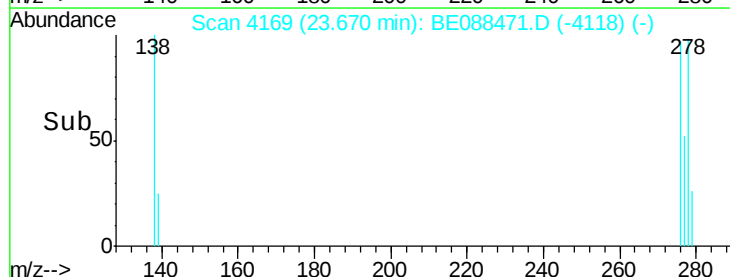
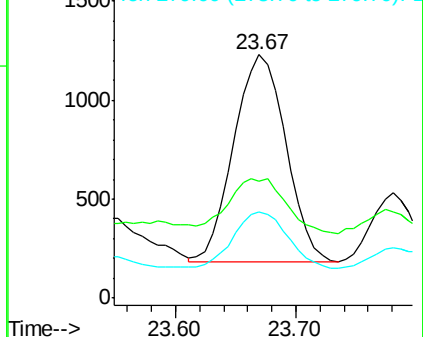
279 35.6 19.7 29.5#

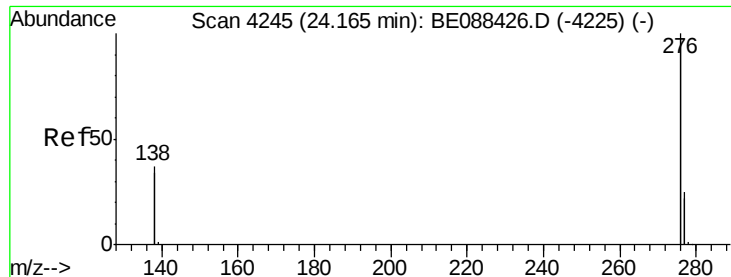


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.89 ng

RT: 24.22 min Scan# 4253

Delta R.T. 0.05 min

Lab File: BE088471.D

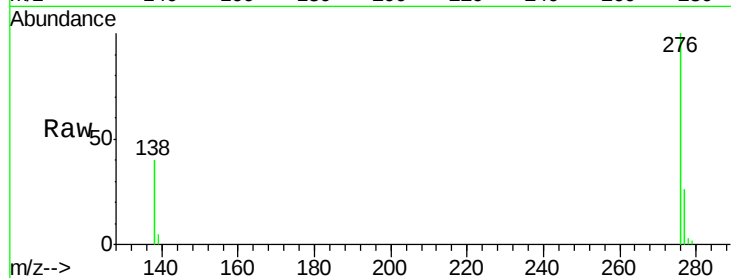
Acq: 2 Nov 2014 2:32

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014DL



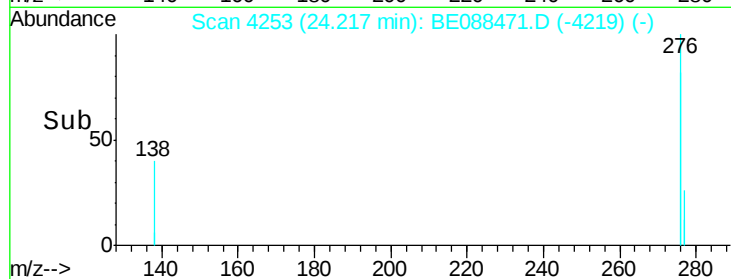
Tgt Ion: 276 Resp: 47912

Ion Ratio Lower Upper

276 100

277 26.0 19.8 29.6

138 40.1 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

