

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
 Data File : BE088228.D
 Acq On : 25 Oct 2014 2:48
 Operator : TP/JJ
 Sample : F4407-02
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 S32-0460

Quant Time: Oct 27 13:46:17 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102414.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 27 13:04:40 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	20560	5.00	ng	0.00
3) Naphthalene-d8	8.67	136	80771	5.00	ng	0.00
7) Acenaphthene-d10	10.82	164	45808	5.00	ng	0.00
12) Phenanthrene-d10	12.93	188	97612	5.00	ng	0.00
16) Chrysene-d12	18.34	240	54208	5.00	ng	0.00
22) Perylene-d12	21.40	264	39985	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.80	82	38136	6.36	ng	0.00
8) 2-Fluorobiphenyl	10.01	172	75164	5.88	ng	0.00
18) Terphenyl-d14	16.11	244	76438	8.61	ng	0.00

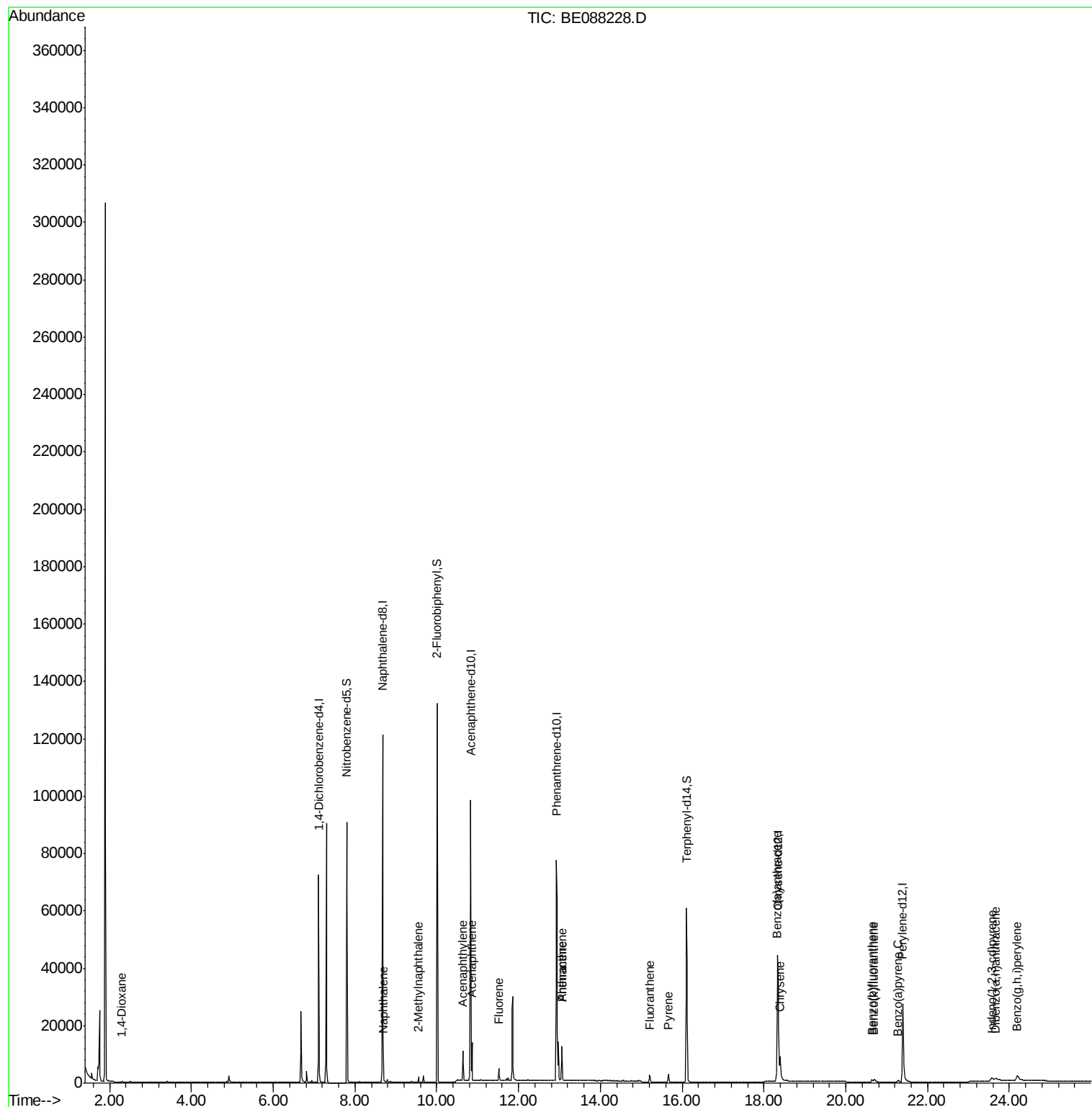
Target Compounds						Qvalue
2) 1,4-Dioxane	2.30	88	128	0.04	ng	# 81
5) Naphthalene	8.70	128	701	0.04	ng	# 88
6) 2-Methylnaphthalene	9.55	142	863	0.09	ng	95
9) Acenaphthylene	10.64	152	11120	0.16	ng	95
10) Acenaphthene	10.86	154	1860	0.17	ng	91
11) Fluorene	11.52	166	2042	0.18	ng	99
13) Phenanthrene	13.06	178	12753	0.14	ng	98
14) Anthracene	13.06	178	12753	0.18	ng	98
15) Fluoranthene	15.21	202	2642	0.19	ng	99
17) Pyrene	15.66	202	2887	0.19	ng	100
19) Benzo(a)anthracene	18.32	228	10103	0.24	ng	95
20) Chrysene	18.39	228	11968	0.25	ng	95
21) Indeno(1,2,3-cd)pyrene	23.57	276	3155	0.30	ng	# 67
23) Benzo(b)fluoranthene	20.64	252	1527	0.34	ng	# 88
24) Benzo(k)fluoranthene	20.69	252	2626	0.25	ng	# 90
25) Benzo(a)pyrene	21.28	252	1425	0.33	ng	# 86
26) Dibenzo(a,h)anthracene	23.66	278	993	0.33	ng	# 69
27) Benzo(g,h,i)perylene	24.20	276	6795	0.21	ng	# 84

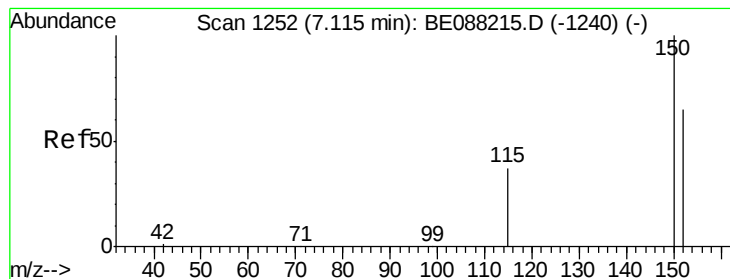
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.11 min Scan# 1252

Delta R.T. -0.00 min

Lab File: BE088228.D

Acq: 25 Oct 2014 2:48

Instrument :

BNA_E

ClientSampleId :

S32-0460

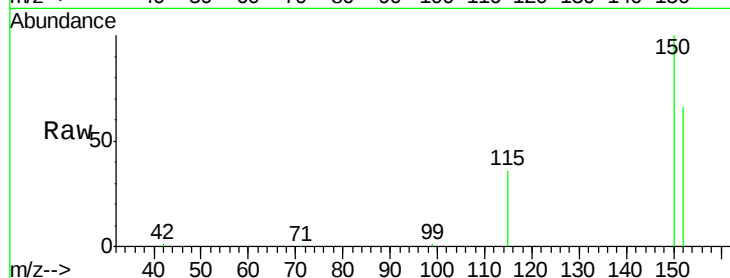
Tgt Ion: 152 Resp: 20560

Ion Ratio Lower Upper

152 100

150 152.4 123.2 184.8

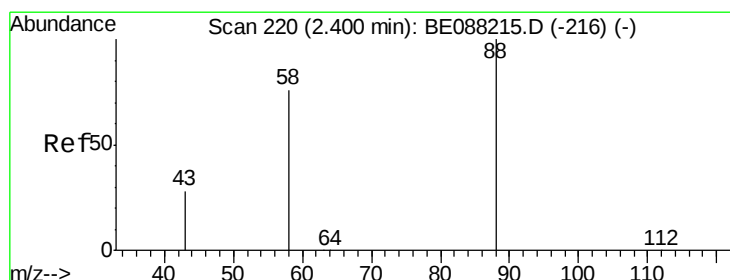
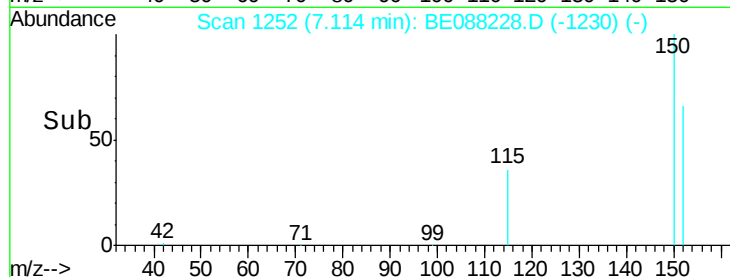
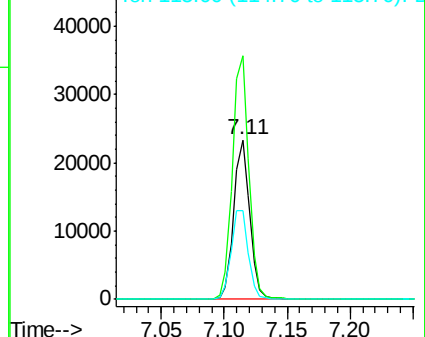
115 55.6 45.3 67.9



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: 0.04 ng

RT: 2.30 min Scan# 198

Delta R.T. -0.10 min

Lab File: BE088228.D

Acq: 25 Oct 2014 2:48

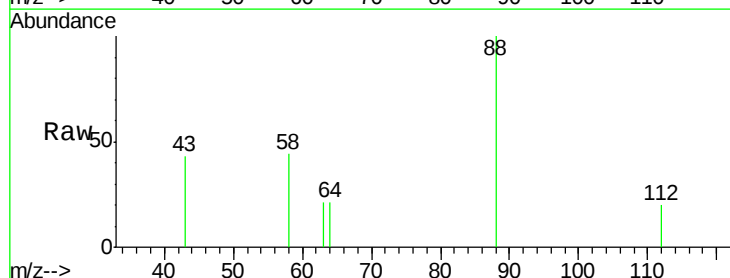
Tgt Ion: 88 Resp: 128

Ion Ratio Lower Upper

88 100

58 68.8 59.0 88.4

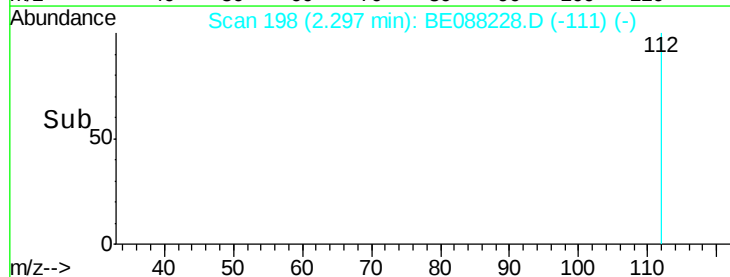
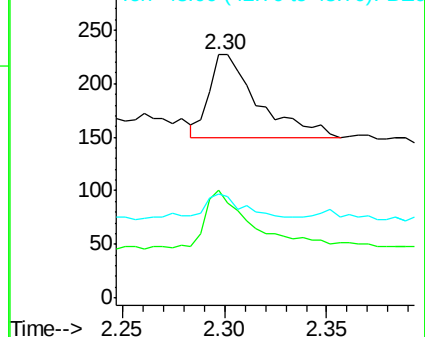
43 0.0 21.9 32.9#

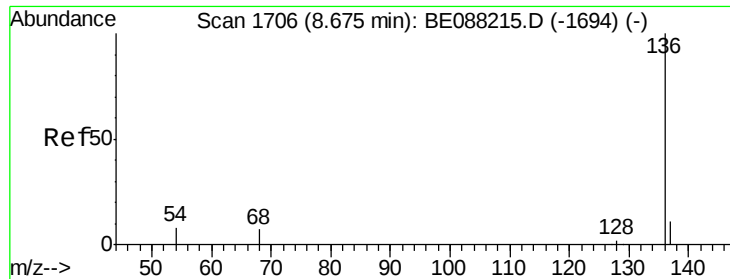


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

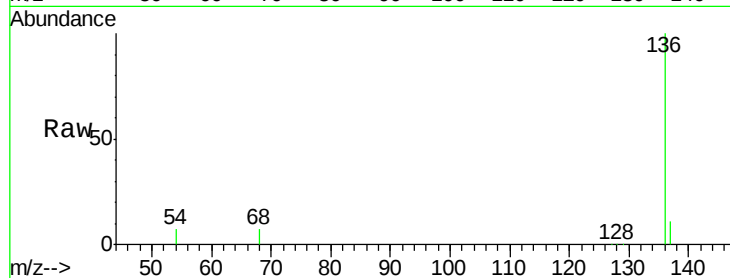




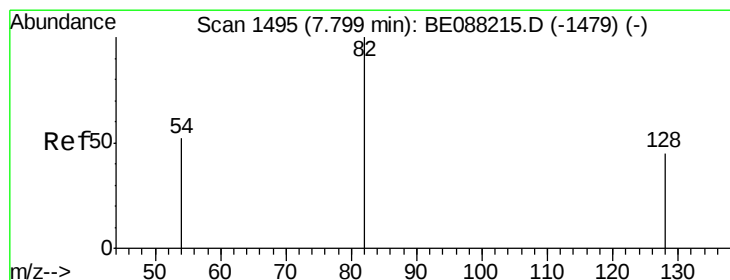
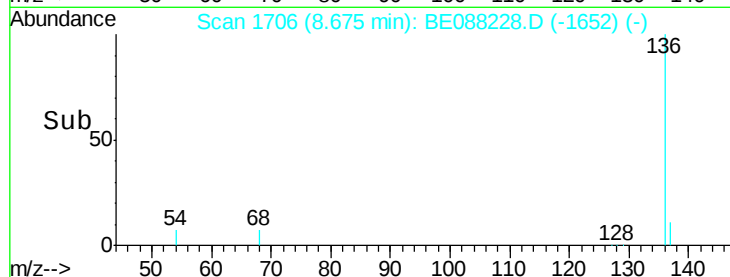
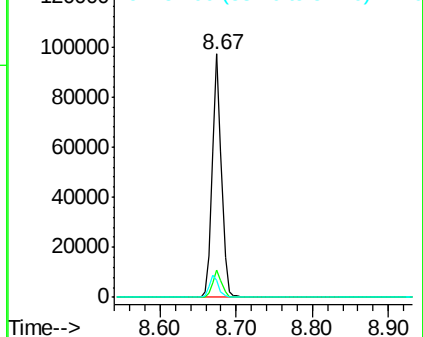
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.67 min Scan# 1706
Delta R.T. -0.00 min
Lab File: BE088228.D
Acq: 25 Oct 2014 2:48

Instrument :
BNA_E
ClientSampleId :
S32-0460

Tgt Ion: 136 Resp: 80771
Ion Ratio Lower Upper
136 100
137 11.0 8.7 13.1
54 7.1 6.1 9.1

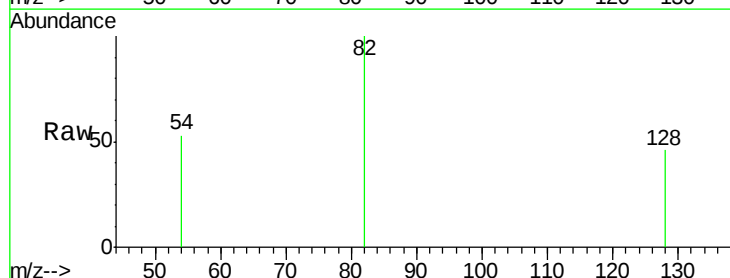


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0

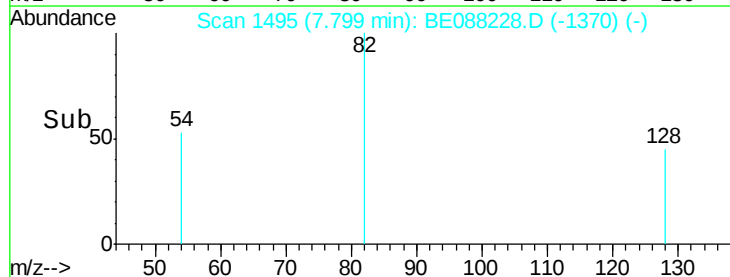
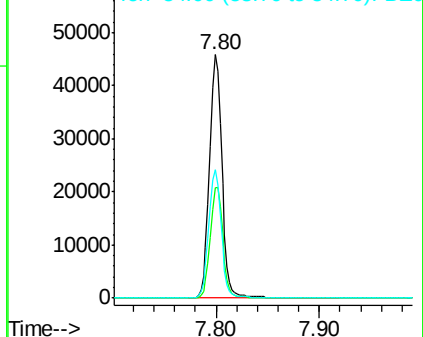


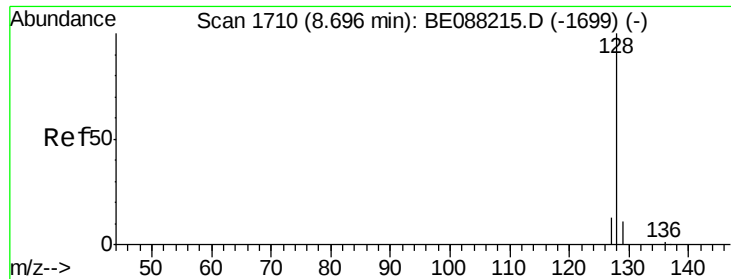
#4
Nitrobenzene-d5
Concen: 6.36 ng
RT: 7.80 min Scan# 1495
Delta R.T. 0.00 min
Lab File: BE088228.D
Acq: 25 Oct 2014 2:48

Tgt Ion: 82 Resp: 38136
Ion Ratio Lower Upper
82 100
128 45.5 36.2 54.2
54 53.0 41.8 62.8



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: 8.70 min Scan# 1711

Delta R.T. 0.01 min

Lab File: BE088228.D

Acq: 25 Oct 2014 2:48

Instrument :

BNA_E

ClientSampleId :

S32-0460

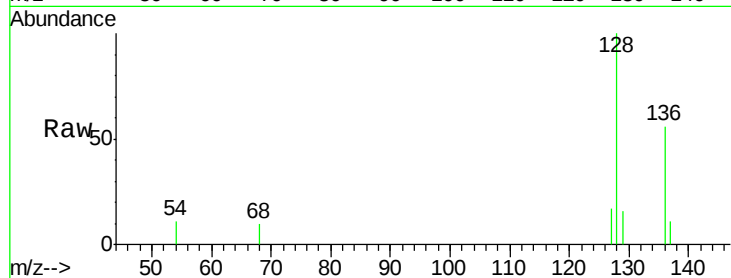
Tgt Ion:128 Resp: 701

Ion Ratio Lower Upper

128 100

129 16.0 8.6 12.8#

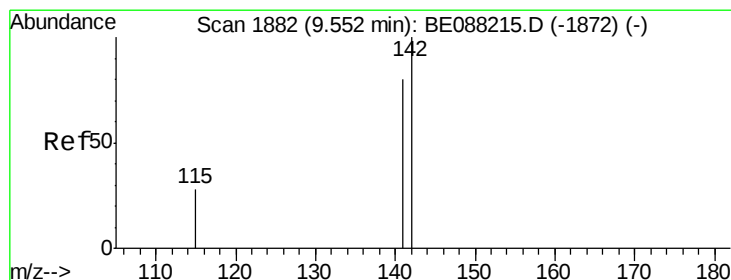
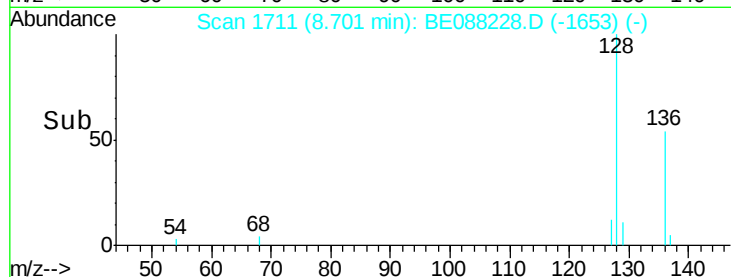
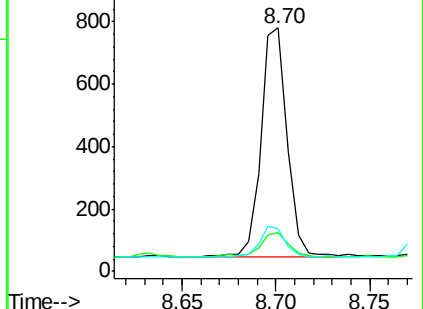
127 17.3 10.4 15.6#



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: 0.09 ng

RT: 9.55 min Scan# 1882

Delta R.T. -0.00 min

Lab File: BE088228.D

Acq: 25 Oct 2014 2:48

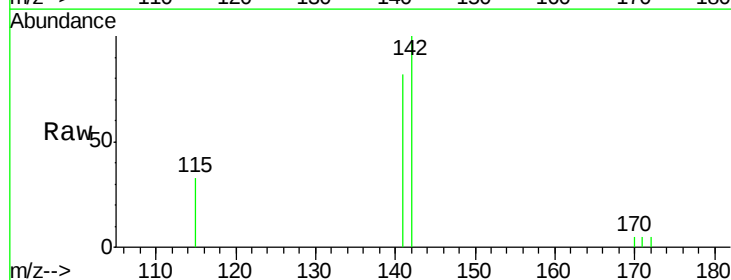
Tgt Ion:142 Resp: 863

Ion Ratio Lower Upper

142 100

141 82.0 63.7 95.5

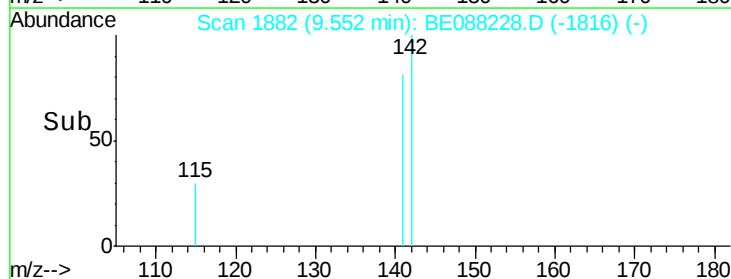
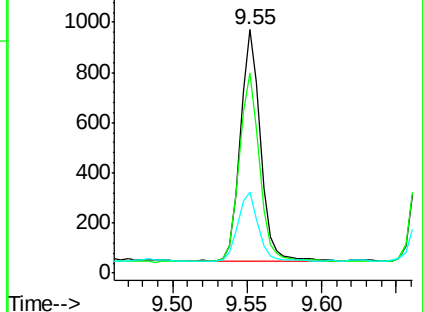
115 33.5 22.6 34.0

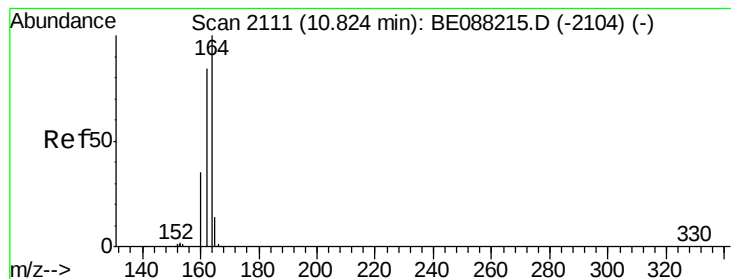


Abundance Ion 142.00 (141.70 to 142.70): E

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: 10.82 min Scan# 2111

Delta R.T. 0.00 min

Lab File: BE088228.D

Acq: 25 Oct 2014 2:48

Instrument :

BNA_E

ClientSampleId :

S32-0460

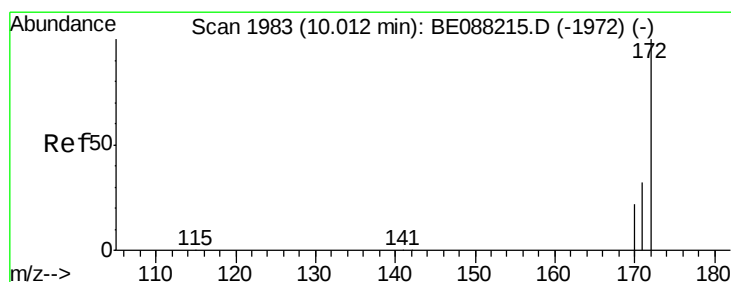
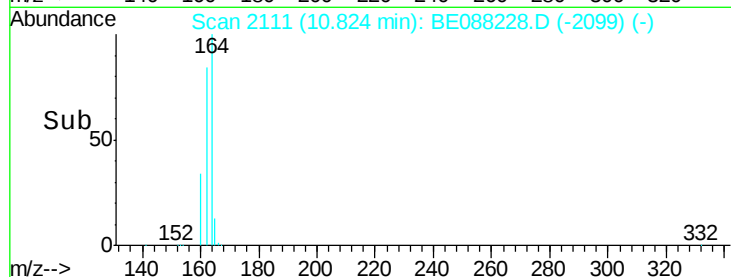
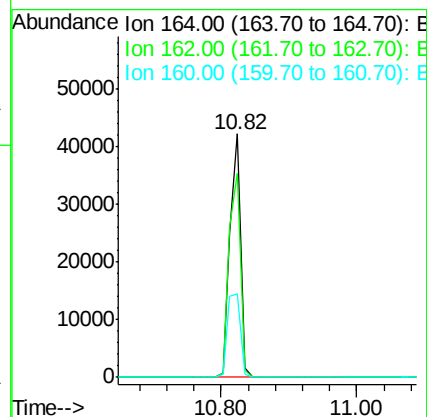
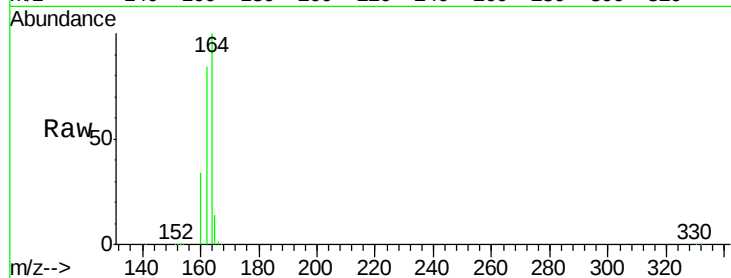
Tgt Ion:164 Resp: 45808

Ion Ratio Lower Upper

164 100

162 83.6 67.4 101.0

160 34.2 27.7 41.5



#8

2-Fluorobiphenyl

Concen: 5.88 ng

RT: 10.01 min Scan# 1983

Delta R.T. -0.00 min

Lab File: BE088228.D

Acq: 25 Oct 2014 2:48

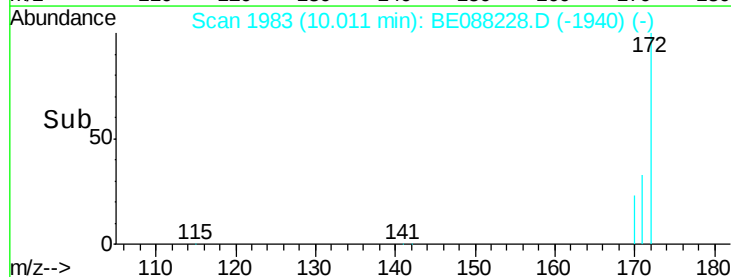
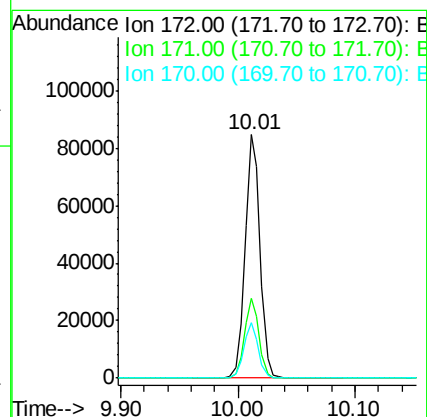
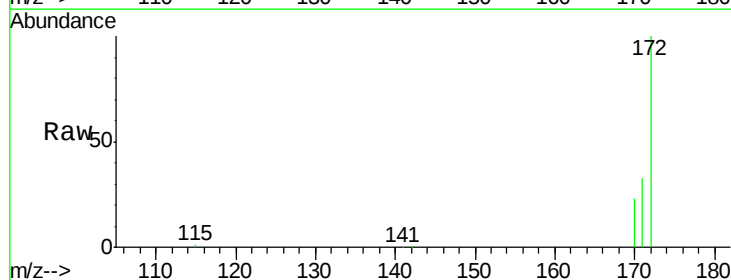
Tgt Ion:172 Resp: 75164

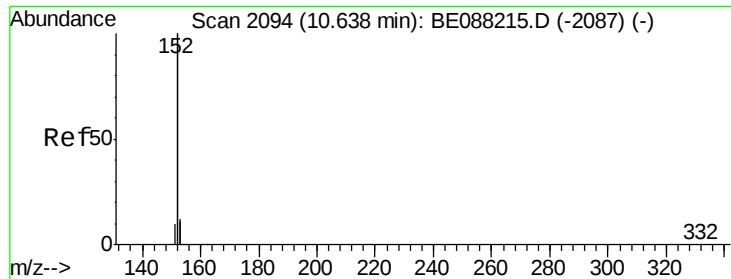
Ion Ratio Lower Upper

172 100

171 33.0 25.8 38.6

170 22.8 17.4 26.0





#9

Acenaphthylene

Concen: 0.16 ng

RT: 10.64 min Scan# 2094

Delta R.T. 0.00 min

Lab File: BE088228.D

Acq: 25 Oct 2014 2:48

Instrument :

BNA_E

ClientSampleId :

S32-0460

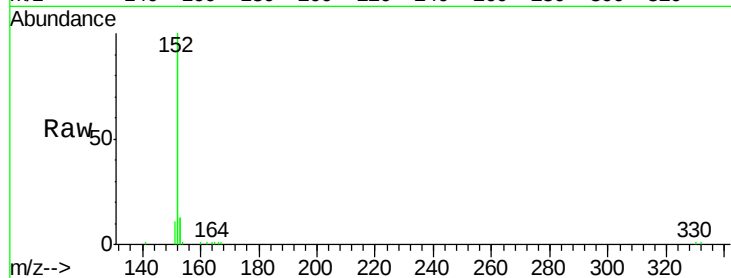
Tgt Ion:152 Resp: 11120

Ion Ratio Lower Upper

152 100

151 4.2 3.7 5.5

153 15.3 10.3 15.5



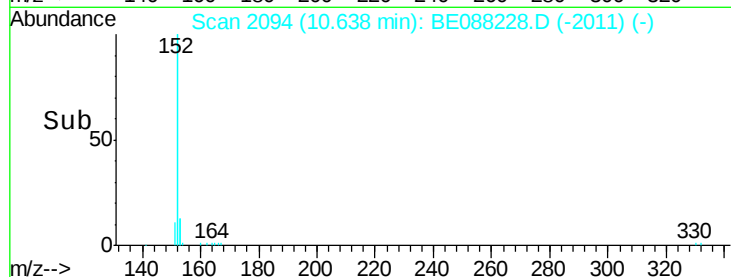
Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

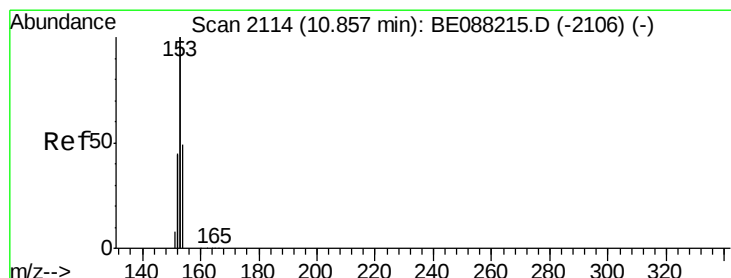
10.64

Time-->



10.64

Time-->



#10

Acenaphthene

Concen: 0.17 ng

RT: 10.86 min Scan# 2114

Delta R.T. 0.00 min

Lab File: BE088228.D

Acq: 25 Oct 2014 2:48

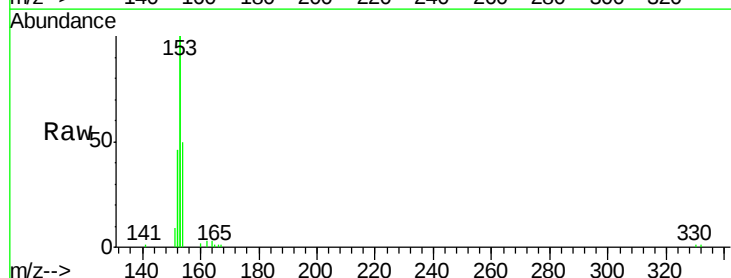
Tgt Ion:154 Resp: 1860

Ion Ratio Lower Upper

154 100

153 377.1 326.0 489.0

152 191.0 155.6 233.4



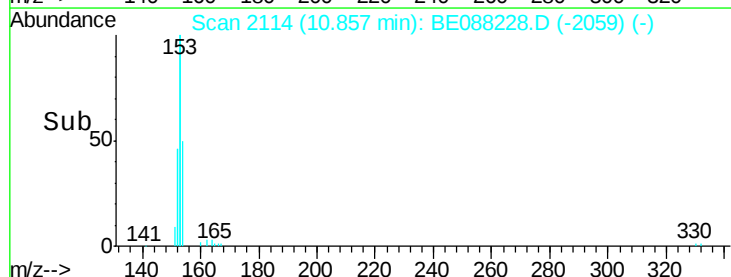
Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

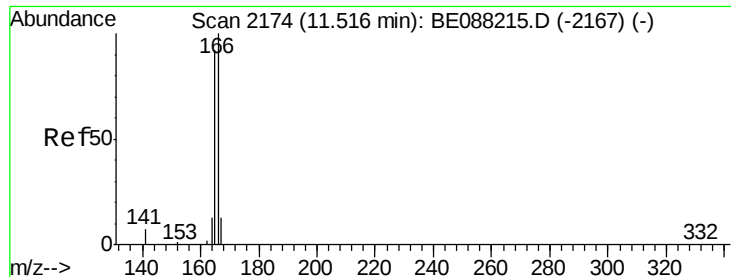
10.86

Time-->



10.86

Time-->



#11

Fluorene

Concen: 0.18 ng

RT: 11.52 min Scan# 2174

Delta R.T. 0.00 min

Lab File: BE088228.D

Acq: 25 Oct 2014 2:48

Instrument :

BNA_E

ClientSampleId :

S32-0460

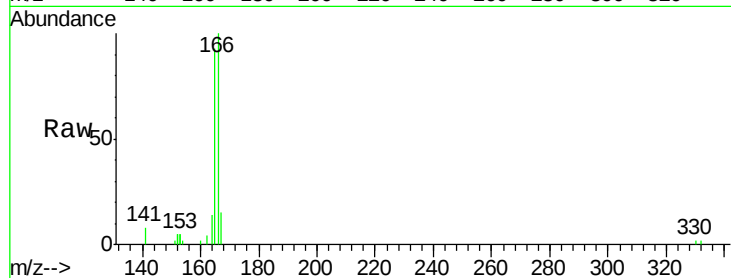
Tgt Ion:166 Resp: 2042

Ion Ratio Lower Upper

166 100

165 91.1 71.8 107.6

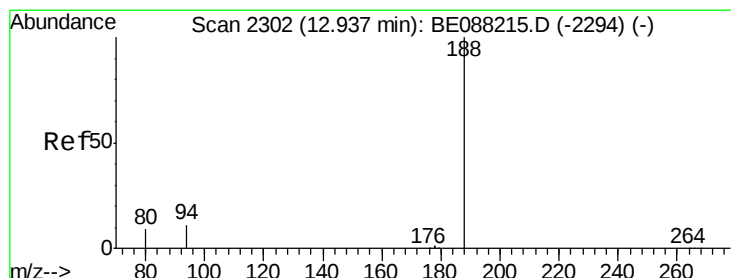
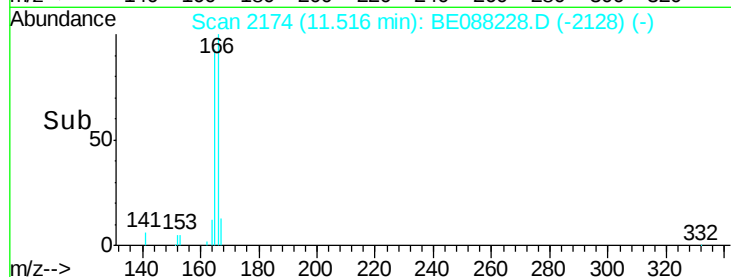
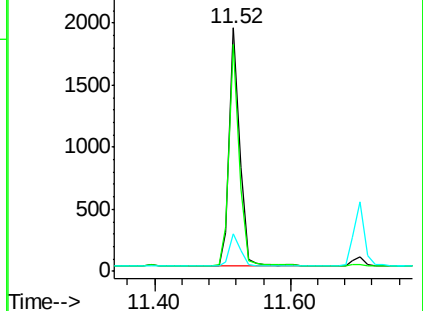
167 13.9 10.7 16.1



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: 12.93 min Scan# 2301

Delta R.T. -0.01 min

Lab File: BE088228.D

Acq: 25 Oct 2014 2:48

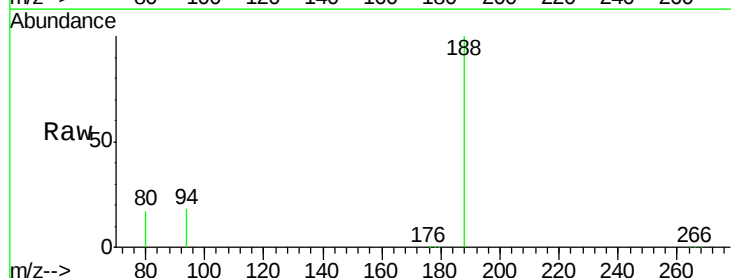
Tgt Ion:188 Resp: 97612

Ion Ratio Lower Upper

188 100

94 18.3 8.5 12.7#

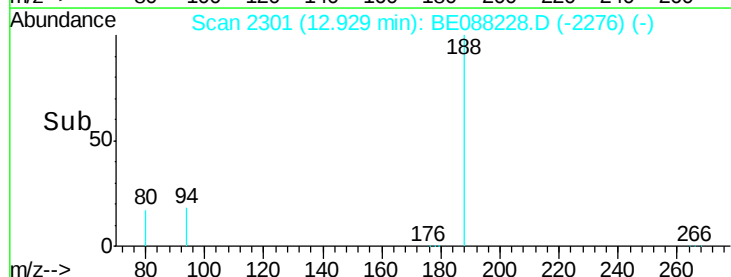
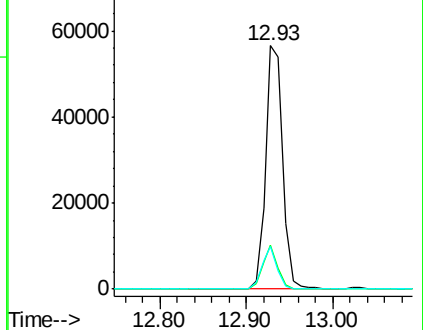
80 17.5 7.4 11.0#

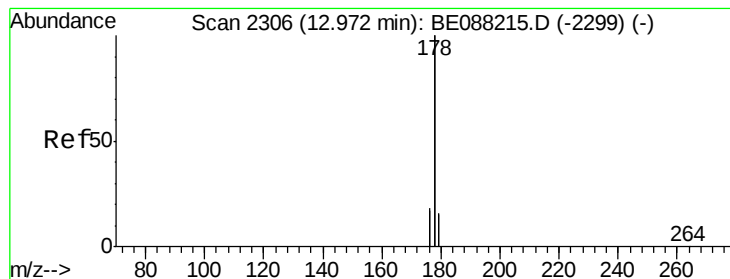


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 0.14 ng

RT: 13.06 min Scan# 2316

Delta R.T. 0.09 min

Lab File: BE088228.D

Acq: 25 Oct 2014 2:48

Instrument :

BNA_E

ClientSampleId :

S32-0460

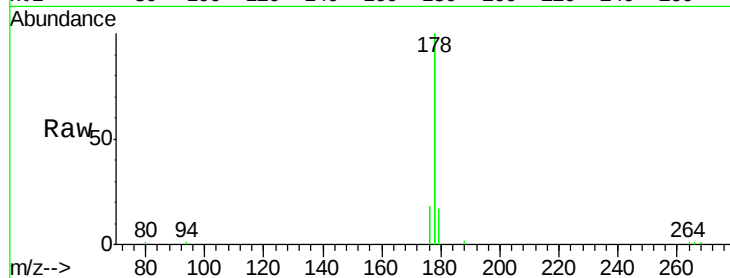
Tgt Ion:178 Resp: 12753

Ion Ratio Lower Upper

178 100

176 19.2 14.0 21.0

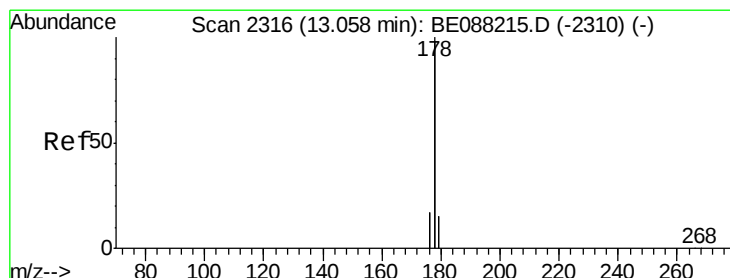
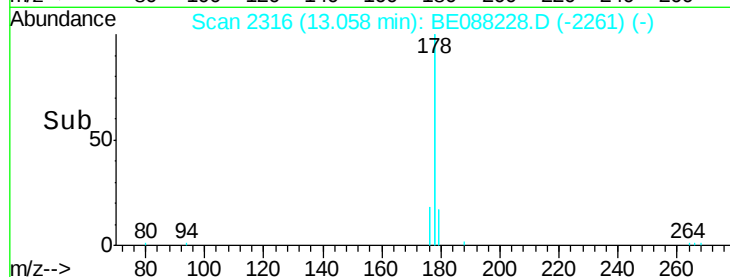
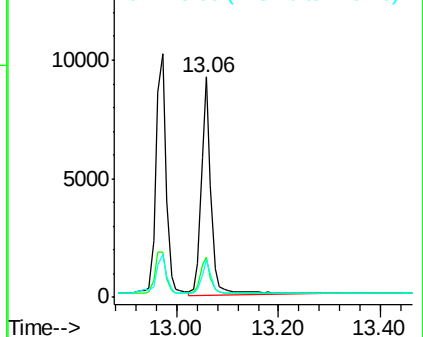
179 14.4 11.8 17.6



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: 0.18 ng

RT: 13.06 min Scan# 2316

Delta R.T. 0.00 min

Lab File: BE088228.D

Acq: 25 Oct 2014 2:48

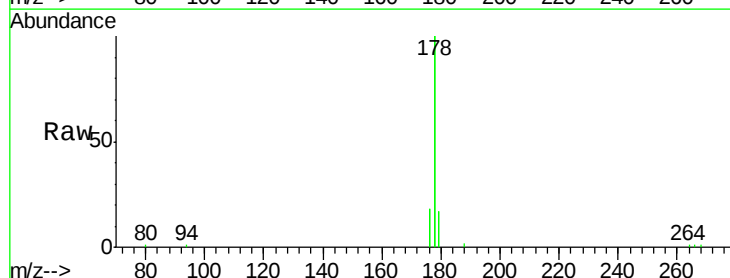
Tgt Ion:178 Resp: 12753

Ion Ratio Lower Upper

178 100

176 19.2 14.7 22.1

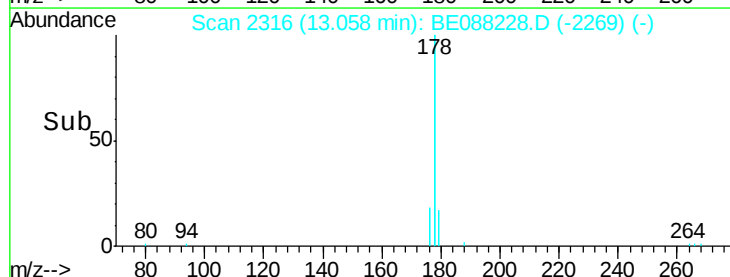
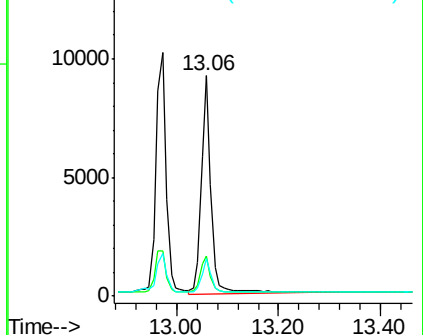
179 14.4 12.3 18.5

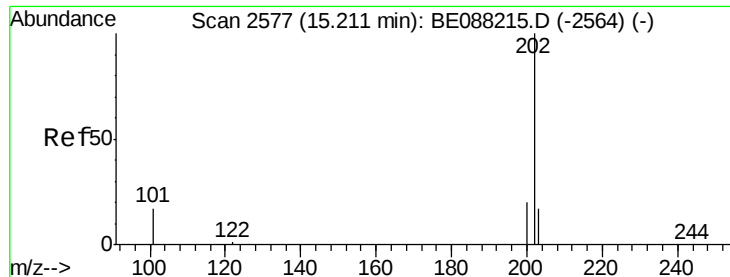


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

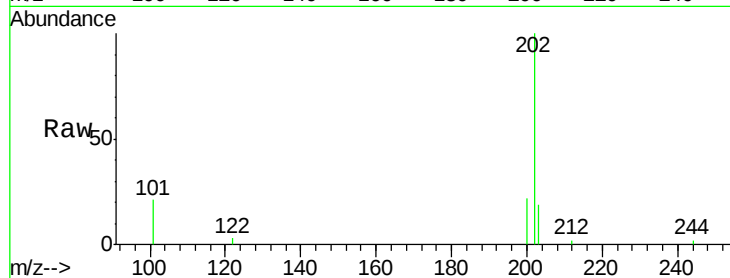




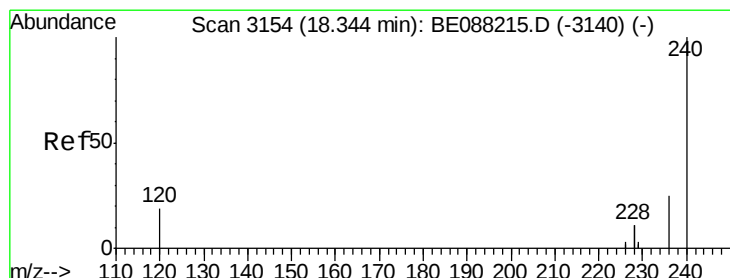
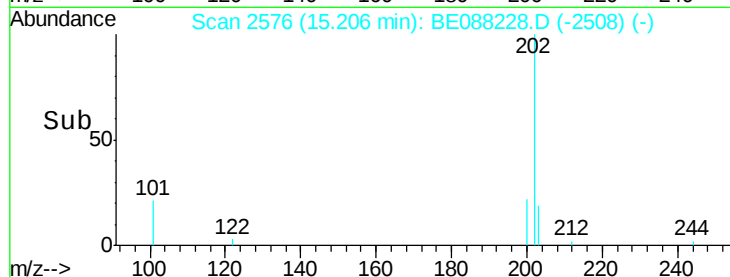
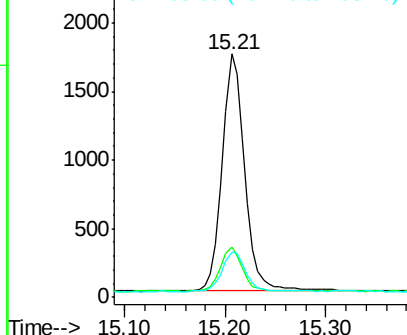
#15
 Fluoranthene
 Concen: 0.19 ng
 RT: 15.21 min Scan# 2576
 Delta R.T. -0.00 min
 Lab File: BE088228.D
 Acq: 25 Oct 2014 2:48

Instrument :
 BNA_E
 ClientSampleId :
 S32-0460

Tgt Ion: 202 Resp: 2642
 Ion Ratio Lower Upper
 202 100
 101 17.9 14.4 21.6
 203 17.4 13.4 20.2

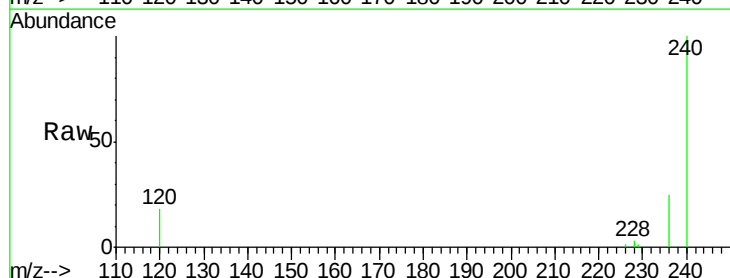


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

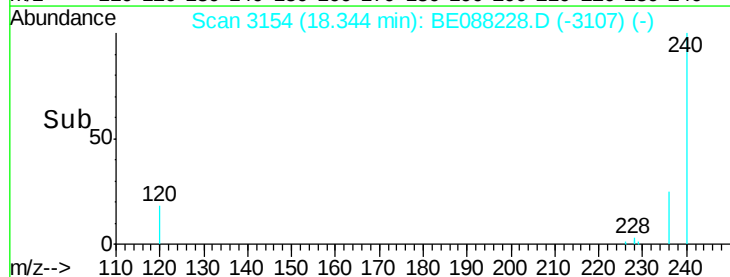
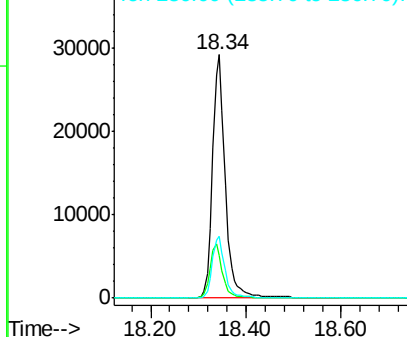


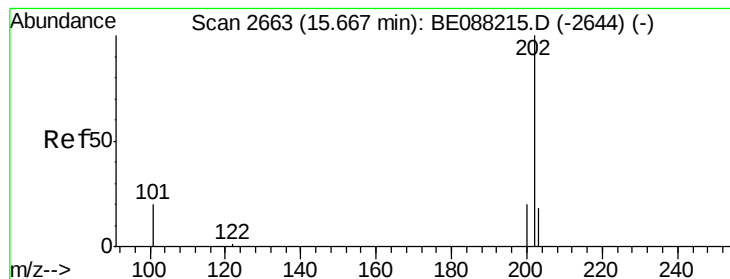
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.34 min Scan# 3154
 Delta R.T. -0.00 min
 Lab File: BE088228.D
 Acq: 25 Oct 2014 2:48

Tgt Ion: 240 Resp: 54208
 Ion Ratio Lower Upper
 240 100
 120 17.7 15.1 22.7
 236 25.3 20.1 30.1



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: 0.19 ng

RT: 15.66 min Scan# 2662

Delta R.T. -0.00 min

Lab File: BE088228.D

Acq: 25 Oct 2014 2:48

Instrument :

BNA_E

ClientSampleId :

S32-0460

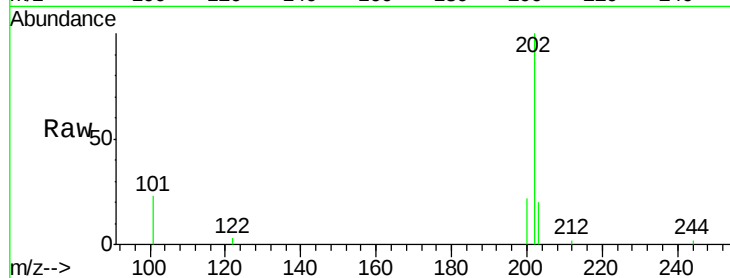
Tgt Ion:202 Resp: 2887

Ion Ratio Lower Upper

202 100

200 20.0 16.2 24.2

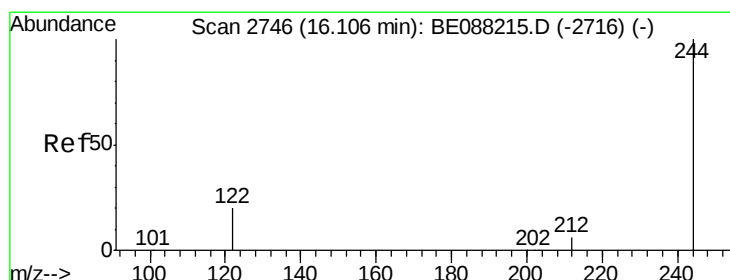
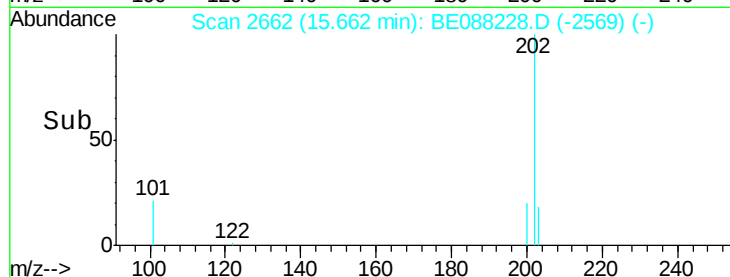
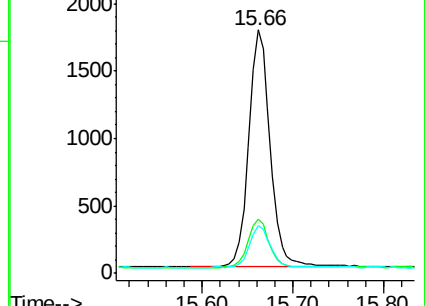
203 17.1 13.8 20.8



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: 8.61 ng

RT: 16.11 min Scan# 2746

Delta R.T. 0.00 min

Lab File: BE088228.D

Acq: 25 Oct 2014 2:48

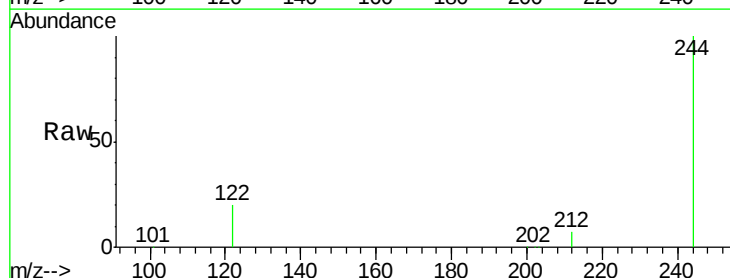
Tgt Ion:244 Resp: 76438

Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.2

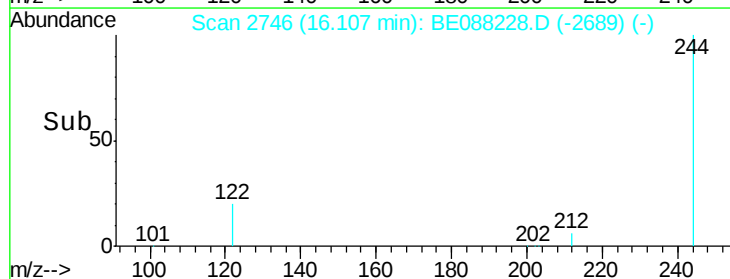
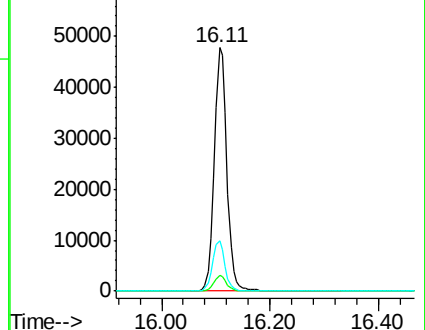
122 20.5 16.7 25.1

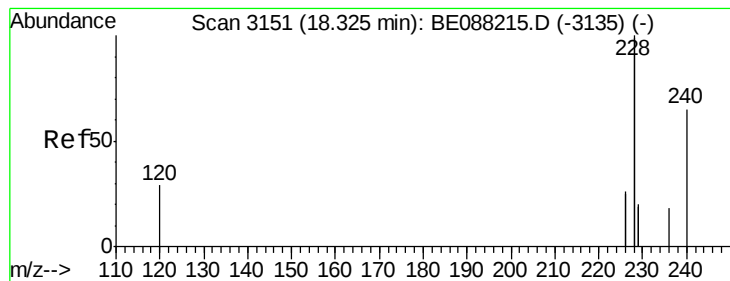


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 0.24 ng

RT: 18.32 min Scan# 3151

Delta R.T. -0.00 min

Lab File: BE088228.D

Acq: 25 Oct 2014 2:48

Instrument :

BNA_E

ClientSampleId :

S32-0460

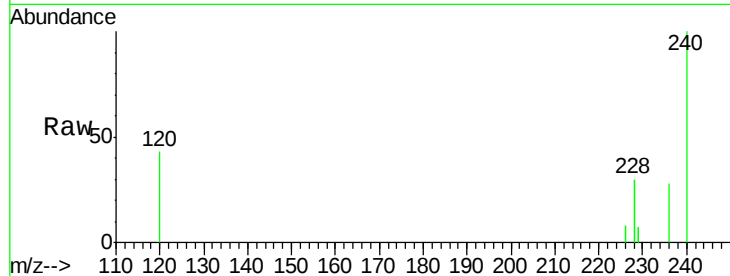
Tgt Ion:228 Resp: 10103

Ion Ratio Lower Upper

228 100

226 27.7 20.5 30.7

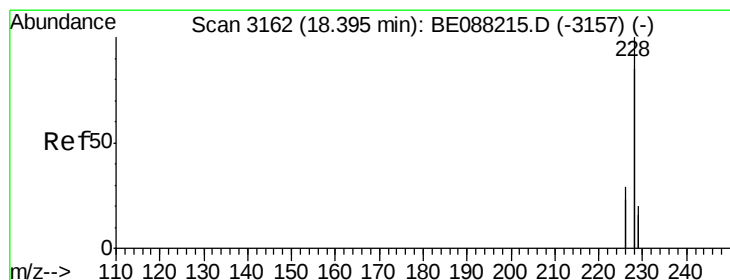
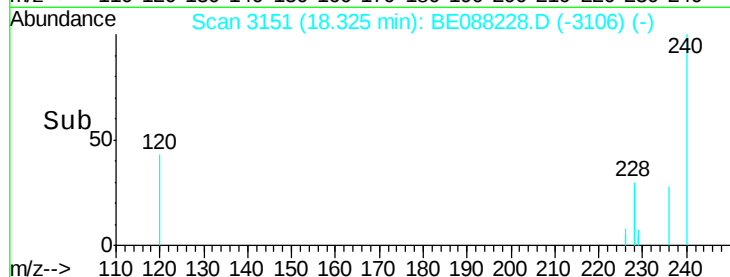
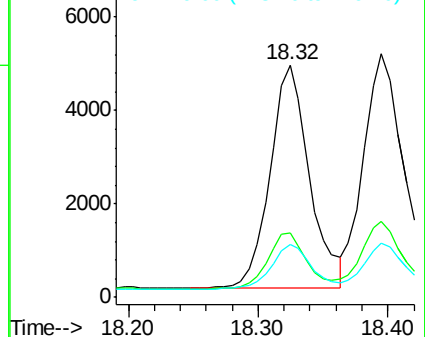
229 22.6 16.1 24.1



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: 0.25 ng

RT: 18.39 min Scan# 3162

Delta R.T. -0.00 min

Lab File: BE088228.D

Acq: 25 Oct 2014 2:48

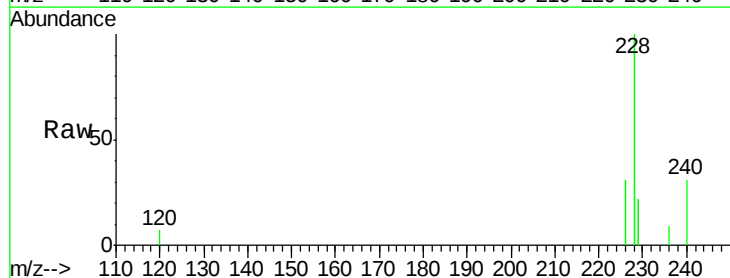
Tgt Ion:228 Resp: 11968

Ion Ratio Lower Upper

228 100

226 31.1 23.3 34.9

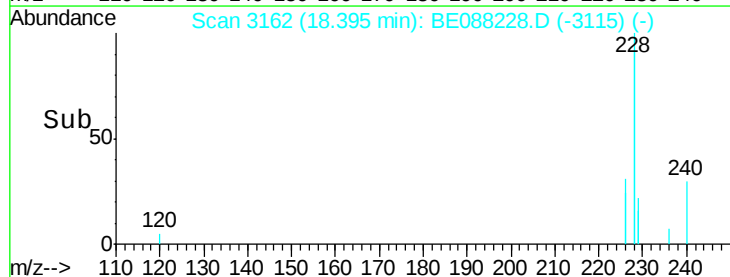
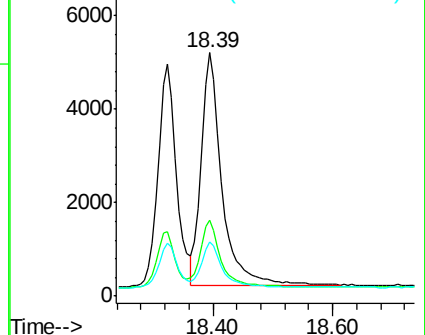
229 22.4 15.6 23.4

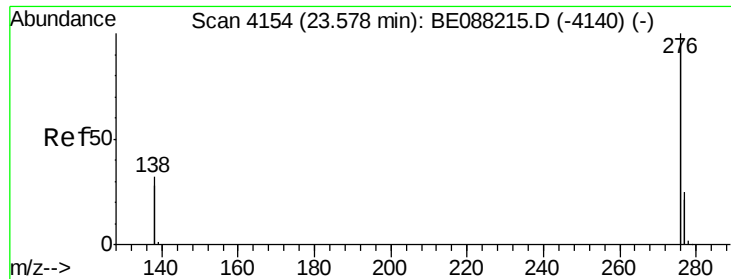


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.30 ng

RT: 23.57 min Scan# 4153

Delta R.T. -0.01 min

Lab File: BE088228.D

Acq: 25 Oct 2014 2:48

Instrument :

BNA_E

ClientSampleId :

S32-0460

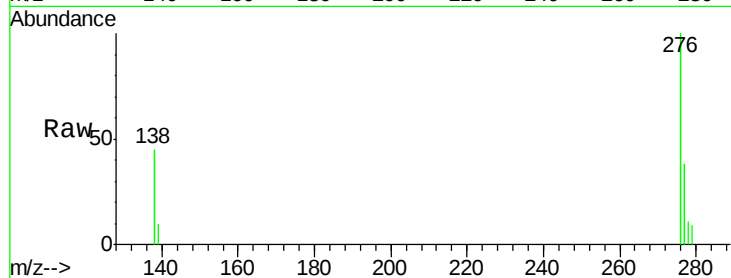
Tgt Ion:276 Resp: 3155

Ion Ratio Lower Upper

276 100

138 31.8 13.9 20.9#

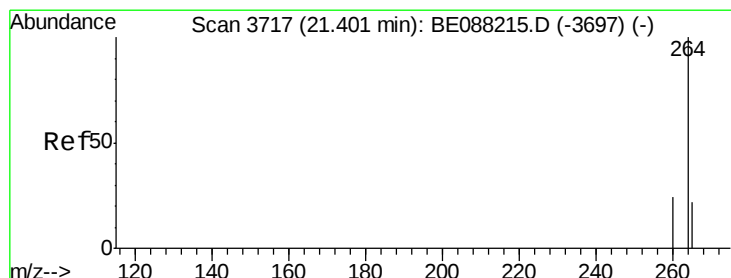
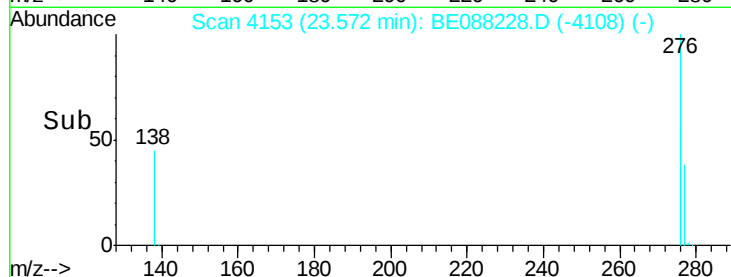
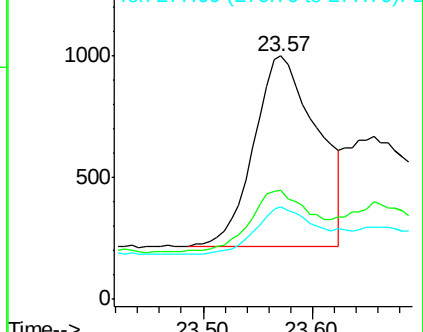
277 26.2 10.7 16.1#



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# 3716

Delta R.T. -0.00 min

Lab File: BE088228.D

Acq: 25 Oct 2014 2:48

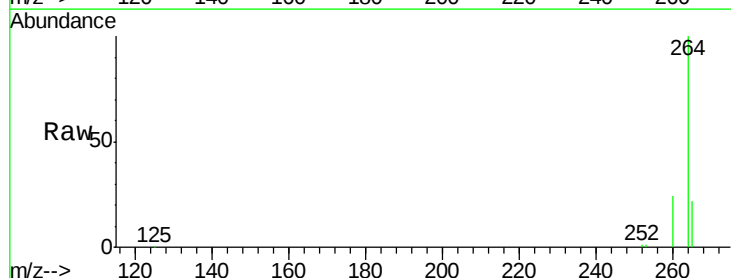
Tgt Ion:264 Resp: 39985

Ion Ratio Lower Upper

264 100

260 23.8 19.0 28.4

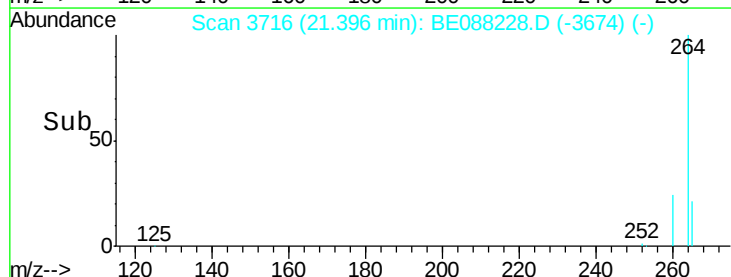
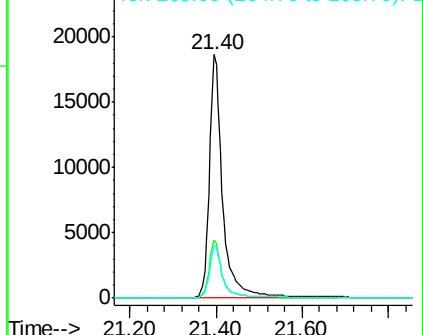
265 21.6 17.4 26.2

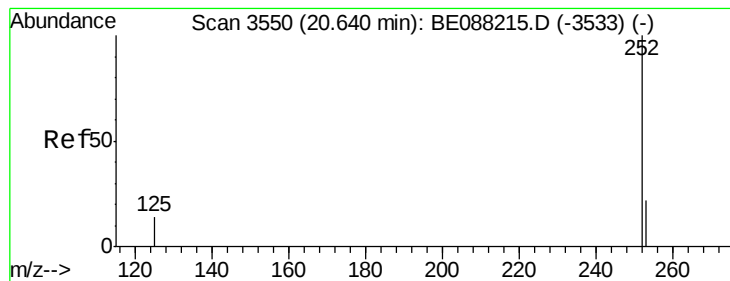


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 0.34 ng

RT: 20.64 min Scan# 3550

Delta R.T. 0.00 min

Lab File: BE088228.D

Acq: 25 Oct 2014 2:48

Instrument :

BNA_E

ClientSampleId :

S32-0460

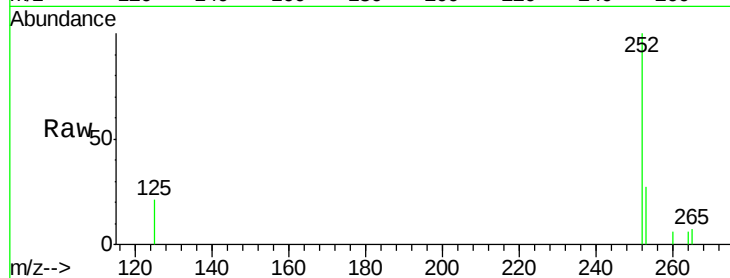
Tgt Ion:252 Resp: 1527

Ion Ratio Lower Upper

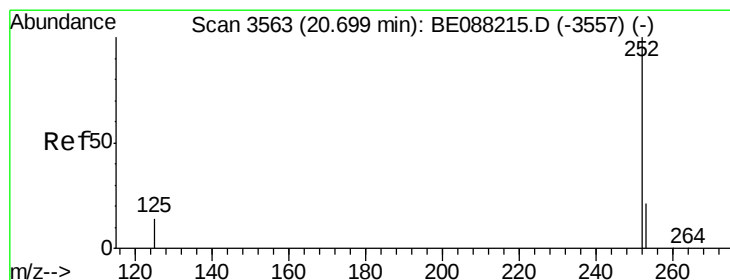
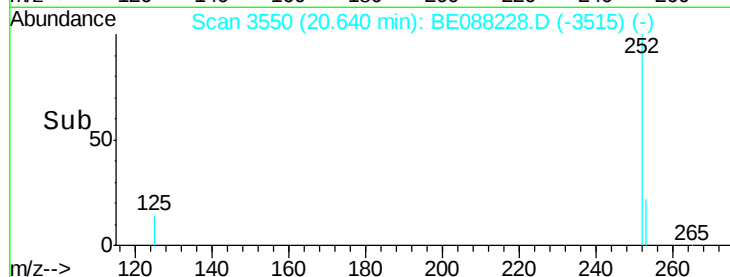
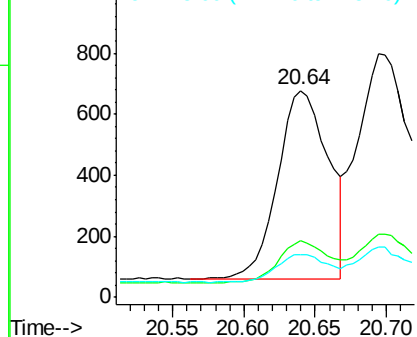
252 100

253 27.4 17.9 26.9#

125 20.6 12.2 18.2#



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: 0.25 ng

RT: 20.69 min Scan# 3562

Delta R.T. -0.00 min

Lab File: BE088228.D

Acq: 25 Oct 2014 2:48

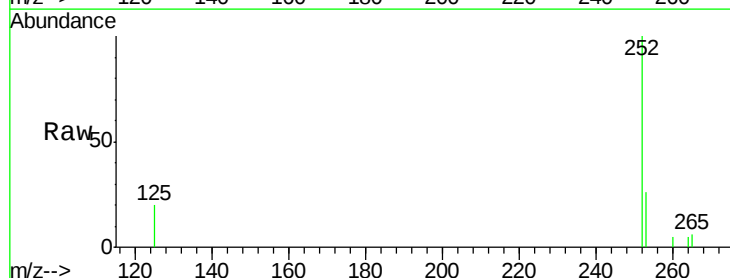
Tgt Ion:252 Resp: 2626

Ion Ratio Lower Upper

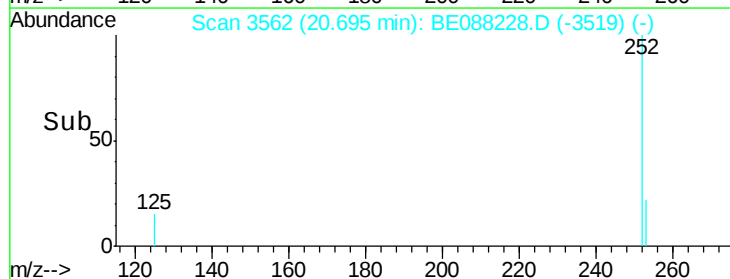
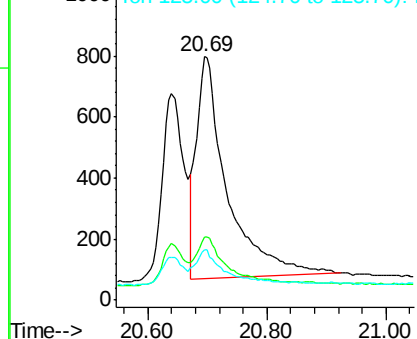
252 100

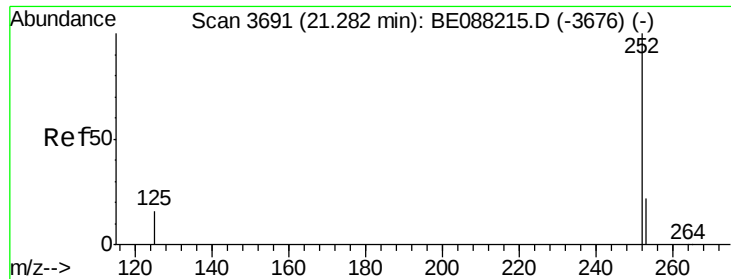
253 25.9 17.6 26.4

125 20.4 12.1 18.1#



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: 0.33 ng

RT: 21.28 min Scan# 3690

Delta R.T. -0.00 min

Lab File: BE088228.D

Acq: 25 Oct 2014 2:48

Instrument :

BNA_E

ClientSampleId :

S32-0460

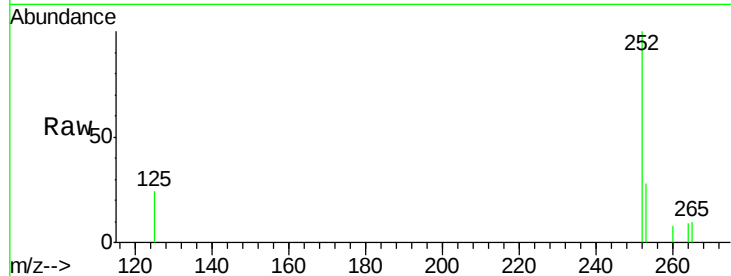
Tgt Ion: 252 Resp: 1425

Ion Ratio Lower Upper

252 100

253 27.9 17.8 26.8#

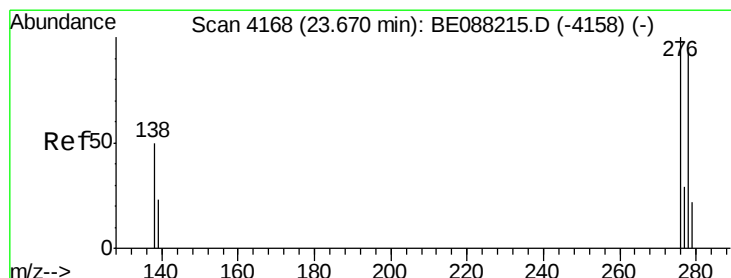
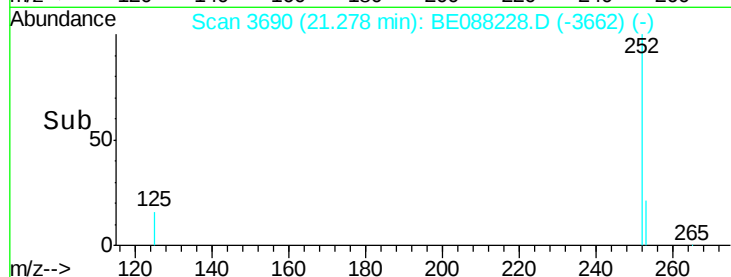
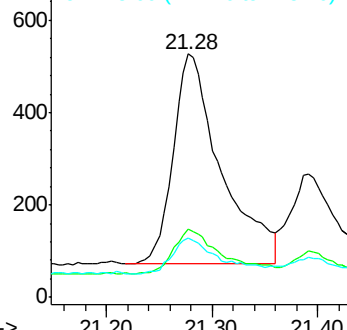
125 24.1 13.5 20.3#



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



#26

Dibenzo(a,h)anthracene

Concen: 0.33 ng

RT: 23.66 min Scan# 4167

Delta R.T. -0.01 min

Lab File: BE088228.D

Acq: 25 Oct 2014 2:48

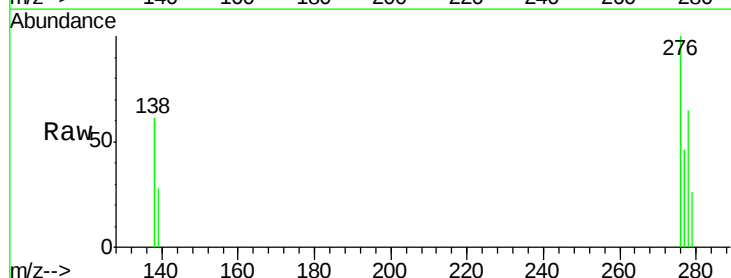
Tgt Ion: 278 Resp: 993

Ion Ratio Lower Upper

278 100

139 43.3 22.1 33.1#

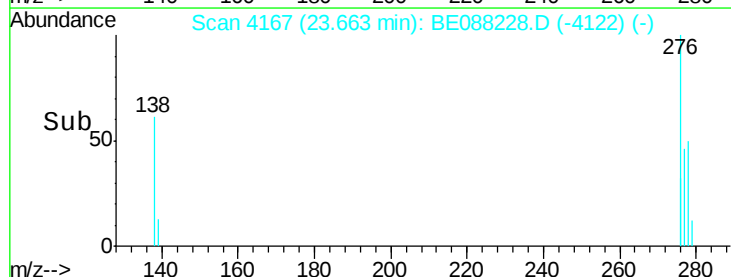
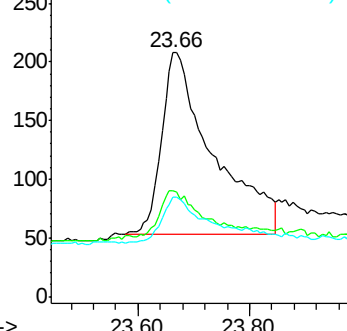
279 40.9 20.2 30.2#

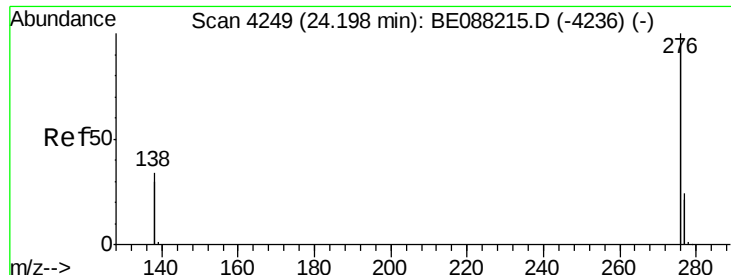


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.21 ng

RT: 24.20 min Scan# 4249

Delta R.T. -0.00 min

Lab File: BE088228.D

Acq: 25 Oct 2014 2:48

Instrument :

BNA_E

ClientSampleId :

S32-0460

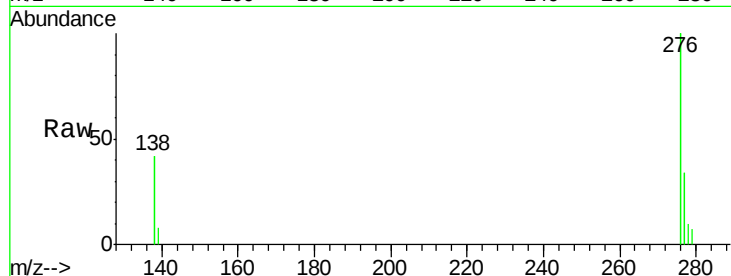
Tgt Ion: 276 Resp: 6795

Ion Ratio Lower Upper

276 100

277 34.1 19.4 29.2#

138 42.0 27.3 40.9#



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

