

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
 Data File : BE088216.D
 Acq On : 24 Oct 2014 17:09
 Operator : TP/JJ
 Sample : SSTDICV001
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 ICVBE102414

Quant Time: Oct 27 13:09:04 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	50459	5.00	ng	0.00
3) Naphthalene-d8	8.68	136	190449	5.00	ng	0.00
7) Acenaphthene-d10	10.83	164	84862	5.00	ng	0.00
12) Phenanthrene-d10	12.94	188	147219	5.00	ng	0.00
16) Chrysene-d12	18.34	240	89367	5.00	ng	0.00
22) Perylene-d12	21.40	264	80909	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.80	82	13382	1.05	ng	0.00
8) 2-Fluorobiphenyl	10.01	172	26185	1.11	ng	0.00
18) Terphenyl-d14	16.11	244	15776	1.08	ng	0.00

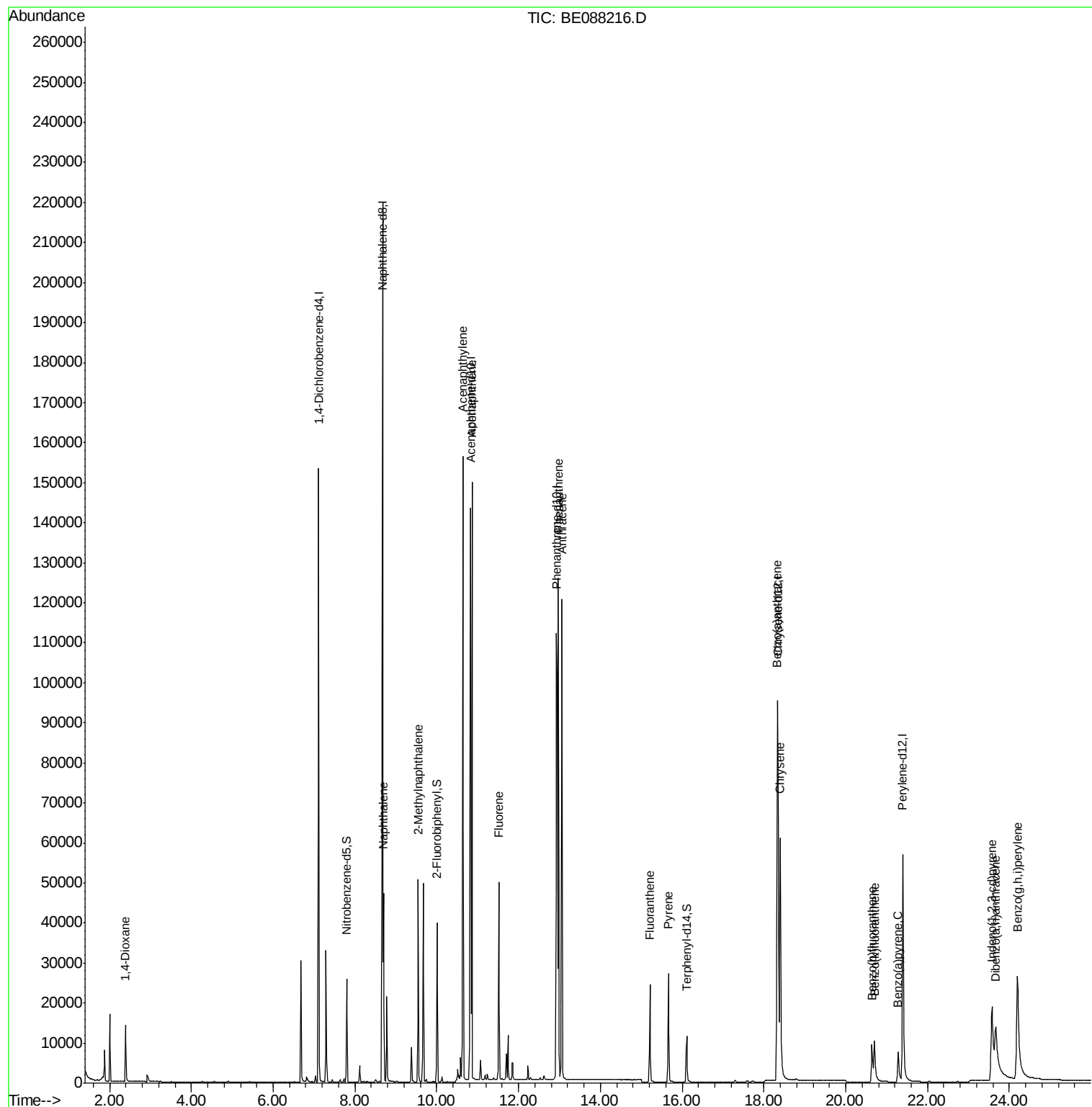
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.39	88	7781	1.11	ng	98
5) Naphthalene	8.70	128	42647	1.10	ng	99
6) 2-Methylnaphthalene	9.55	142	25839	1.11	ng	97
9) Acenaphthylene	10.64	152	143526	1.13	ng	100
10) Acenaphthene	10.86	154	21608	1.08	ng	99
11) Fluorene	11.52	166	23030	1.12	ng	100
13) Phenanthrene	12.97	178	152988	1.08	ng	96
14) Anthracene	13.06	178	116979	1.12	ng	100
15) Fluoranthene	15.21	202	24078	1.12	ng	99
17) Pyrene	15.67	202	26571	1.08	ng	100
19) Benzo(a)anthracene	18.33	228	73431	1.04	ng	100
20) Chrysene	18.40	228	84480	1.06	ng	99
21) Indeno(1,2,3-cd)pyrene	23.58	276	44382	0.75	ng	# 75
23) Benzo(b)fluoranthene	20.64	252	14275	0.97	ng	100
24) Benzo(k)fluoranthene	20.70	252	23127	1.11	ng	99
25) Benzo(a)pyrene	21.28	252	14593	1.00	ng	100
26) Dibenzo(a,h)anthracene	23.67	278	13642	1.02	ng	99
27) Benzo(g,h,i)perylene	24.20	276	70844	1.09	ng	100

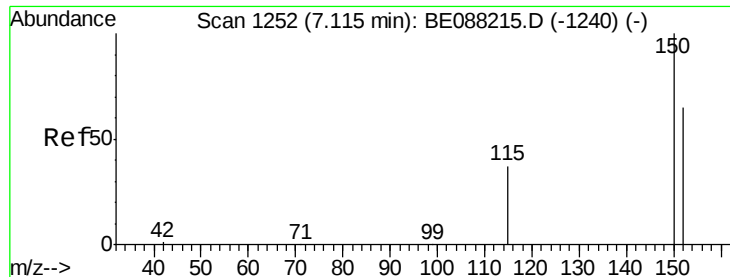
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
Data File : BE088216.D
Acq On : 24 Oct 2014 17:09
Operator : TP/JJ
Sample : SSTDICV001
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
ICVBE102414

Quant Time: Oct 27 13:09:04 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





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.11 min Scan# 1252

Delta R.T. -0.00 min

Lab File: BE088216.D

Acq: 24 Oct 2014 17:09

Instrument :

BNA_E

ClientSampleId :

ICVBE102414

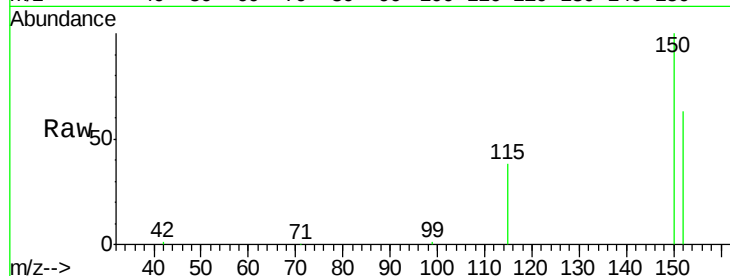
Tgt Ion:152 Resp: 50459

Ion Ratio Lower Upper

152 100

150 159.5 123.2 184.8

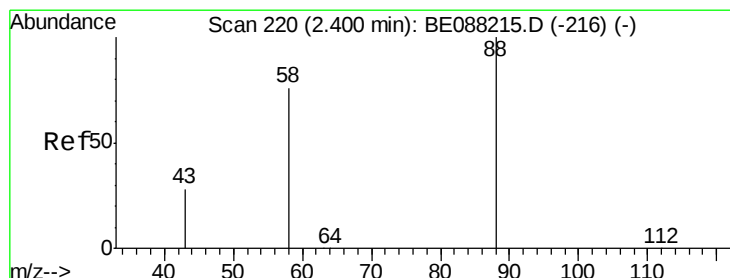
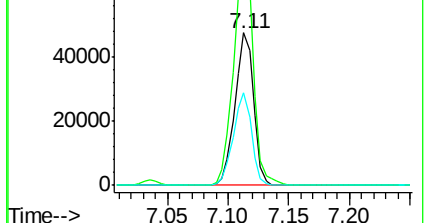
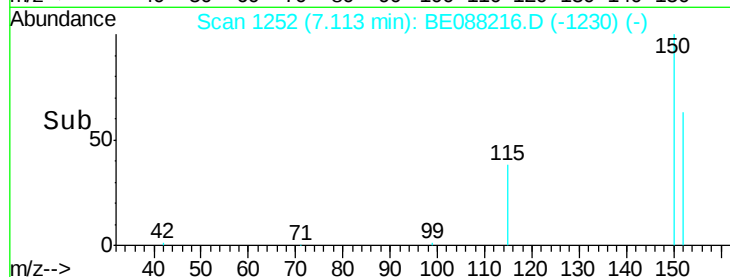
115 61.0 45.3 67.9



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: 1.11 ng

RT: 2.39 min Scan# 218

Delta R.T. -0.01 min

Lab File: BE088216.D

Acq: 24 Oct 2014 17:09

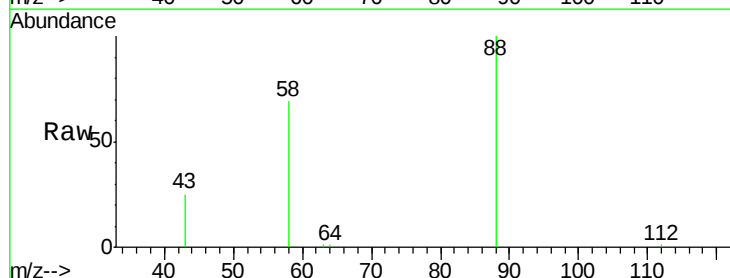
Tgt Ion: 88 Resp: 7781

Ion Ratio Lower Upper

88 100

58 75.2 59.0 88.4

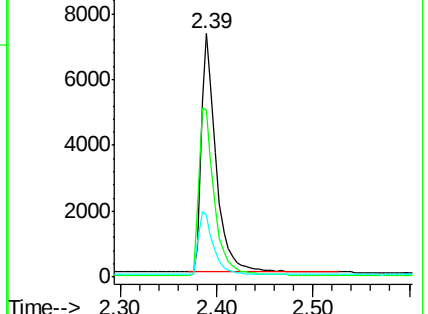
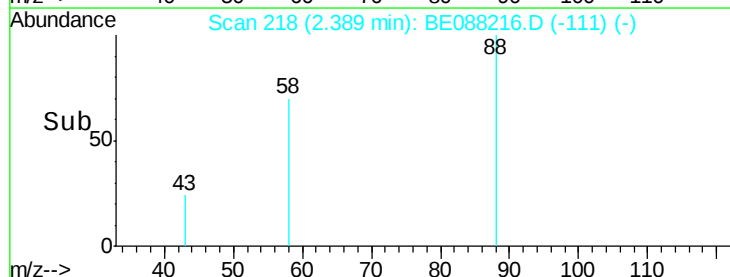
43 28.1 21.9 32.9

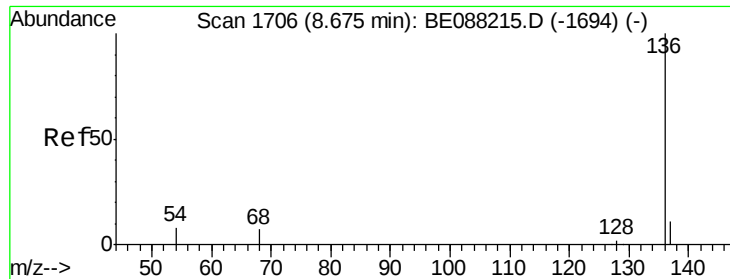


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

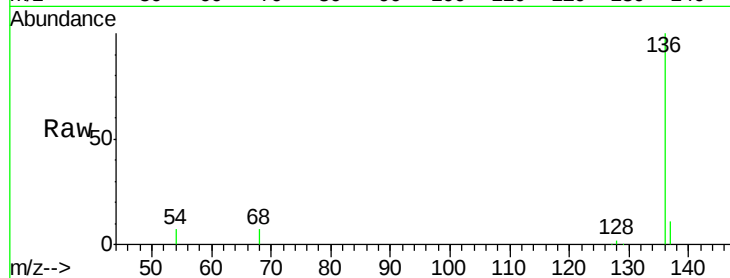




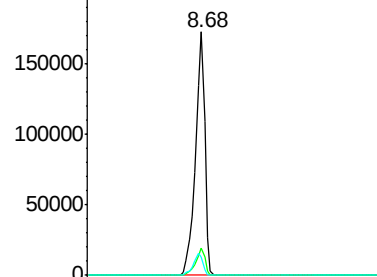
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.68 min Scan# 1707
Delta R.T. 0.00 min
Lab File: BE088216.D
Acq: 24 Oct 2014 17:09

Instrument :
BNA_E
ClientSampleId :
ICVBE102414

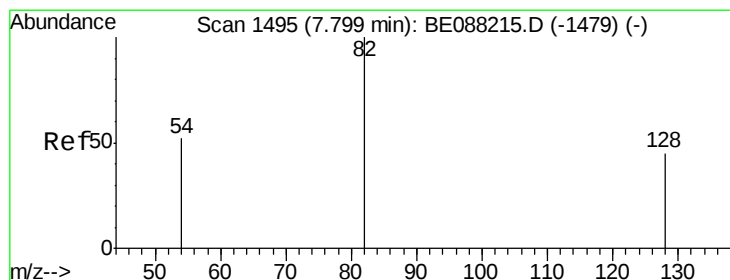
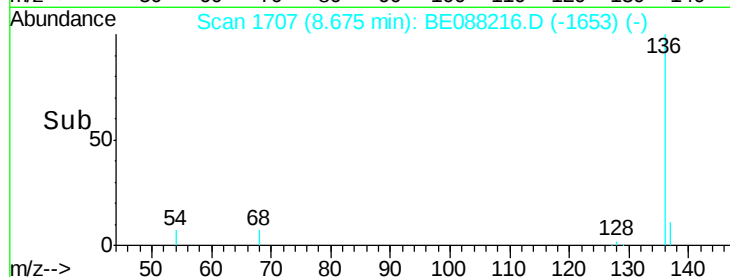
Tgt Ion: 136 Resp: 190449
Ion Ratio Lower Upper
136 100
137 11.0 8.7 13.1
54 7.4 6.1 9.1



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

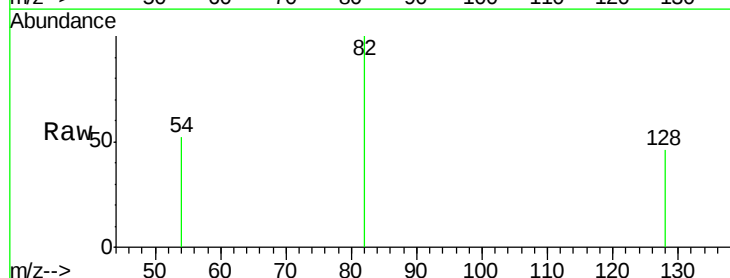


Time--> 8.50 8.60 8.70 8.80 8.90

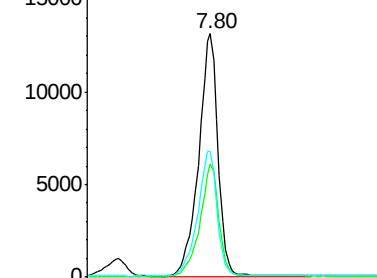


#4
Nitrobenzene-d5
Concen: 1.05 ng
RT: 7.80 min Scan# 1496
Delta R.T. 0.00 min
Lab File: BE088216.D
Acq: 24 Oct 2014 17:09

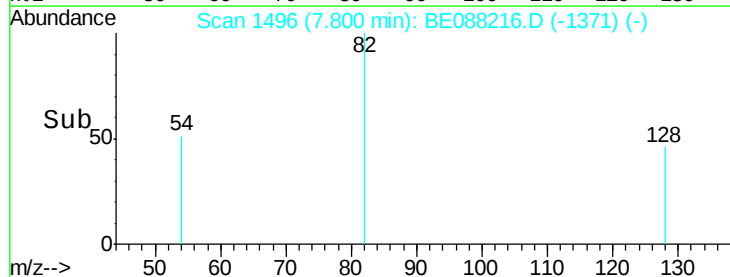
Tgt Ion: 82 Resp: 13382
Ion Ratio Lower Upper
82 100
128 46.5 36.2 54.2
54 51.6 41.8 62.8

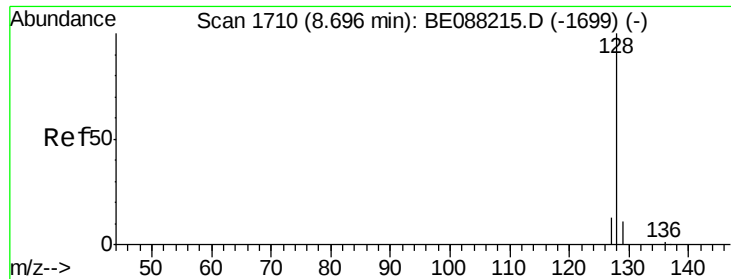


Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): BE0
Ion 54.00 (53.70 to 54.70): BE0



Time--> 7.75 7.80 7.85 7.90





#5

Naphthalene

Concen: 1.10 ng

RT: 8.70 min Scan# 1711

Delta R.T. 0.00 min

Lab File: BE088216.D

Acq: 24 Oct 2014 17:09

Instrument :

BNA_E

ClientSampleId :

ICVBE102414

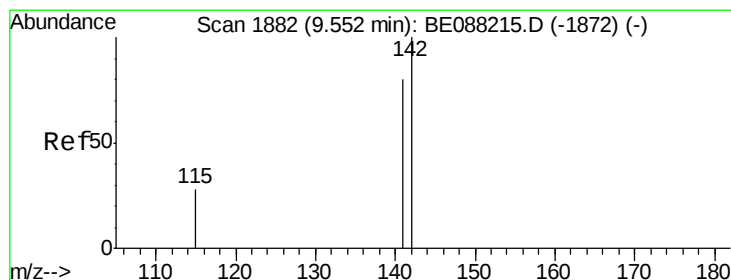
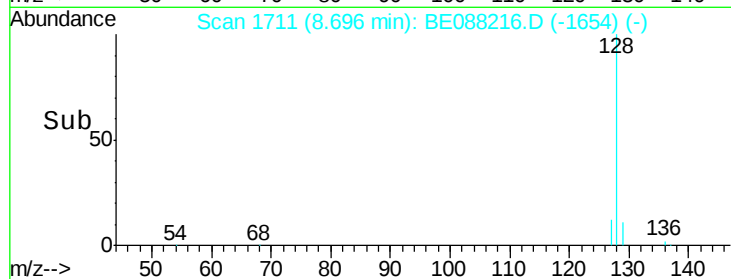
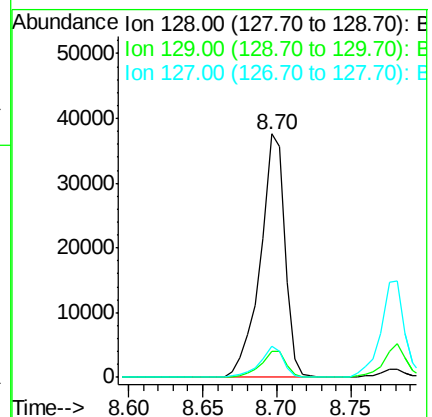
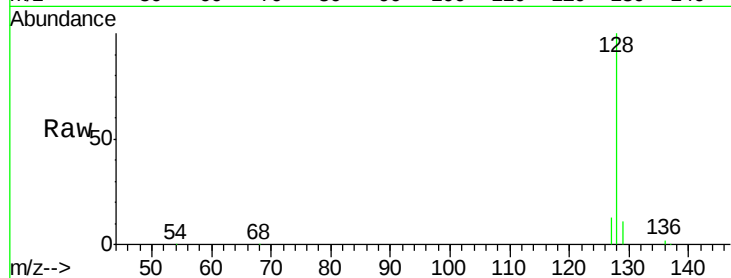
Tgt Ion:128 Resp: 42647

Ion Ratio Lower Upper

128 100

129 10.7 8.6 12.8

127 12.6 10.4 15.6



#6

2-Methylnaphthalene

Concen: 1.11 ng

RT: 9.55 min Scan# 1883

Delta R.T. 0.00 min

Lab File: BE088216.D

Acq: 24 Oct 2014 17:09

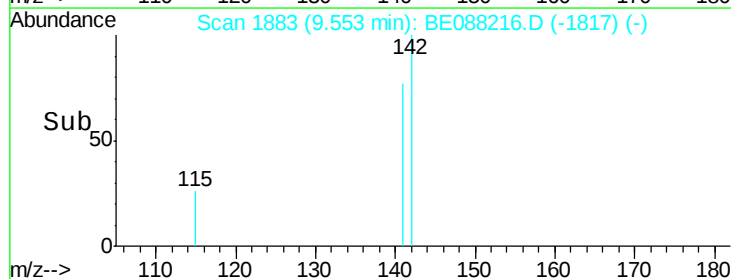
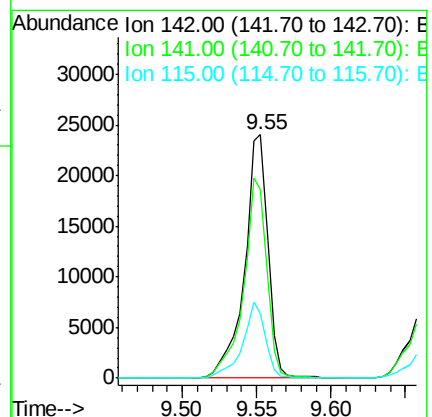
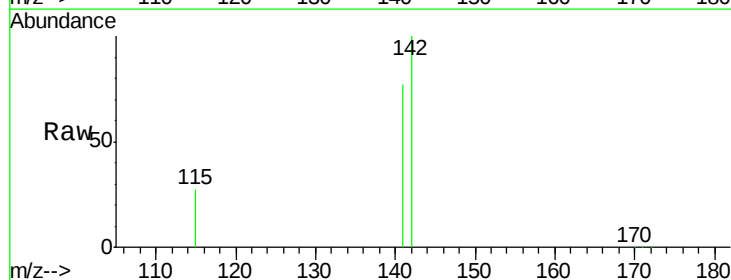
Tgt Ion:142 Resp: 25839

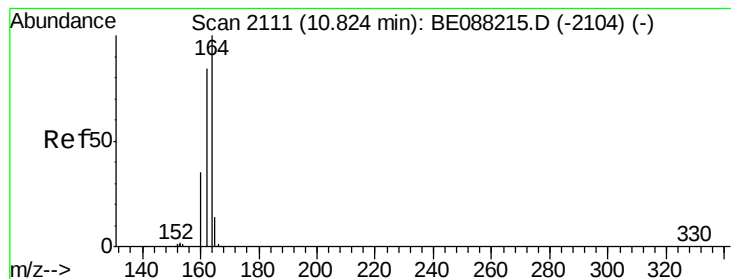
Ion Ratio Lower Upper

142 100

141 77.2 63.7 95.5

115 26.6 22.6 34.0





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.83 min Scan# 2112

Delta R.T. 0.00 min

Lab File: BE088216.D

Acq: 24 Oct 2014 17:09

Instrument :

BNA_E

ClientSampleId :

ICVBE102414

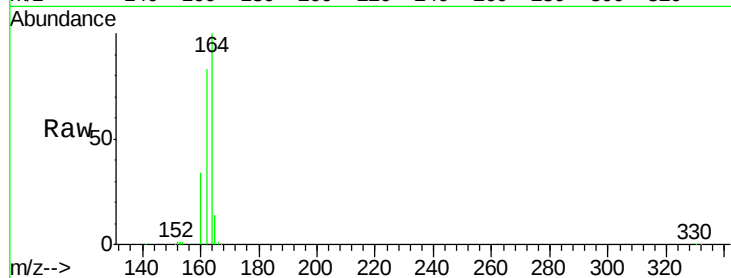
Tgt Ion:164 Resp: 84862

Ion Ratio Lower Upper

164 100

162 82.7 67.4 101.0

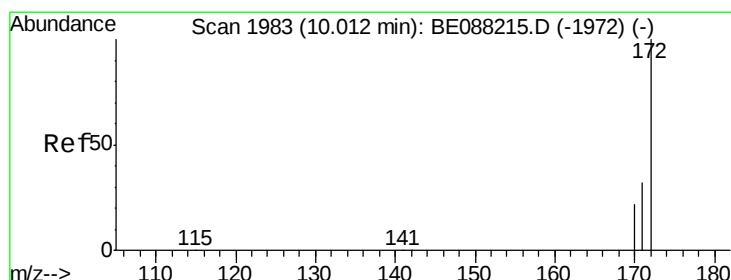
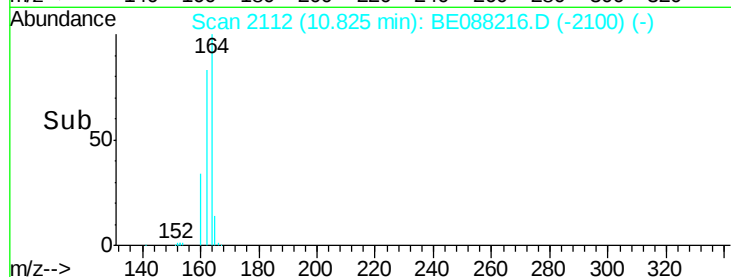
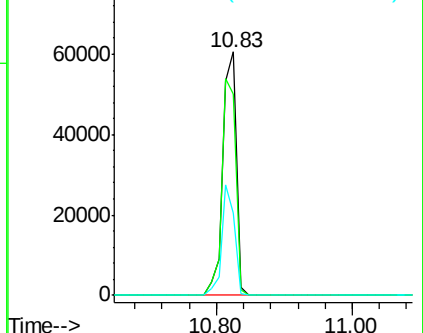
160 33.7 27.7 41.5



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: 1.11 ng

RT: 10.01 min Scan# 1984

Delta R.T. 0.00 min

Lab File: BE088216.D

Acq: 24 Oct 2014 17:09

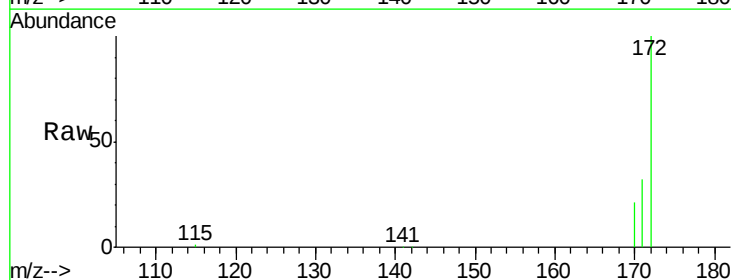
Tgt Ion:172 Resp: 26185

Ion Ratio Lower Upper

172 100

171 31.5 25.8 38.6

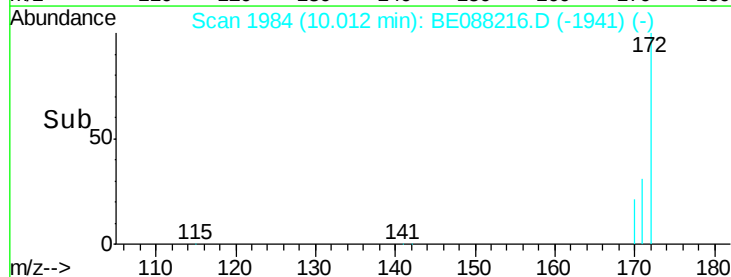
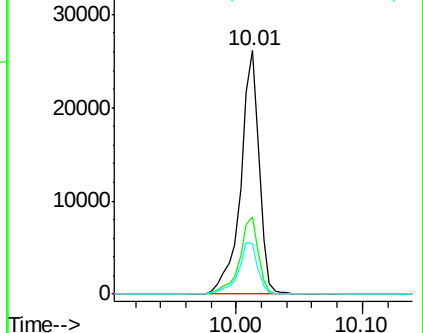
170 20.8 17.4 26.0

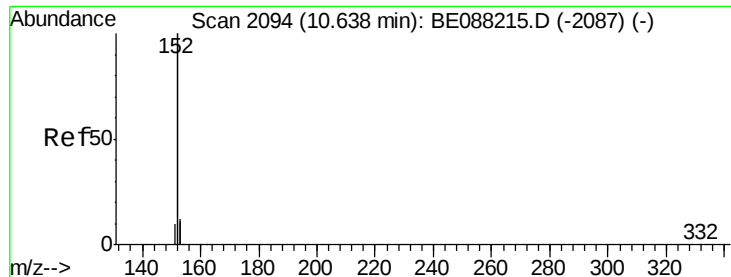


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 1.13 ng

RT: 10.64 min Scan# 2095

Delta R.T. 0.00 min

Lab File: BE088216.D

Acq: 24 Oct 2014 17:09

Instrument :

BNA_E

ClientSampleId :

ICVBE102414

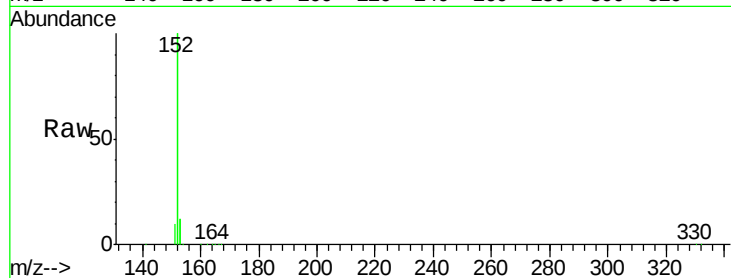
Tgt Ion:152 Resp: 143526

Ion Ratio Lower Upper

152 100

151 4.6 3.7 5.5

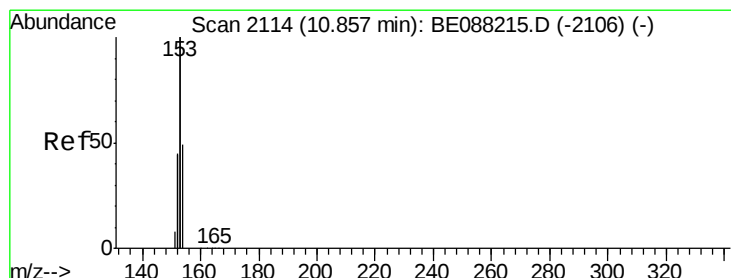
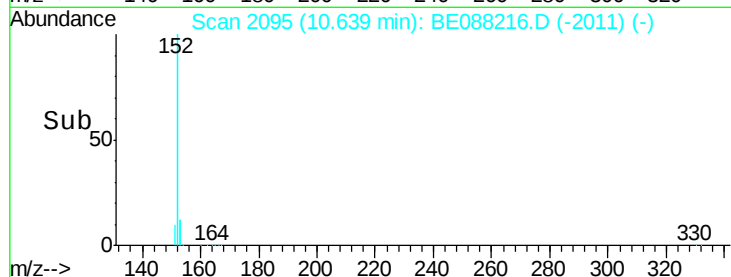
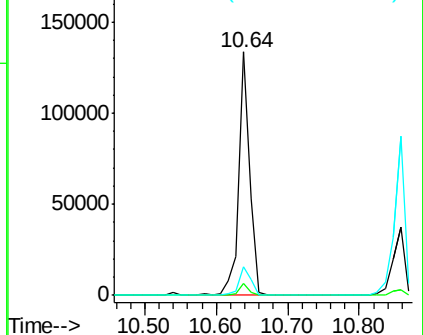
153 12.8 10.3 15.5



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

Acenaphthene

Concen: 1.08 ng

RT: 10.86 min Scan# 2115

Delta R.T. 0.00 min

Lab File: BE088216.D

Acq: 24 Oct 2014 17:09

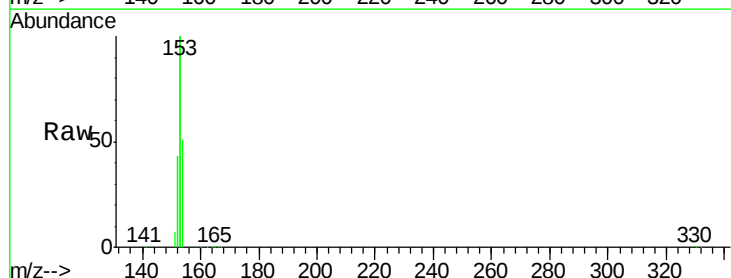
Tgt Ion:154 Resp: 21608

Ion Ratio Lower Upper

154 100

153 410.4 326.0 489.0

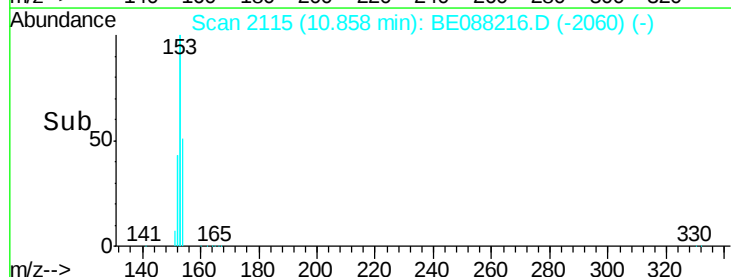
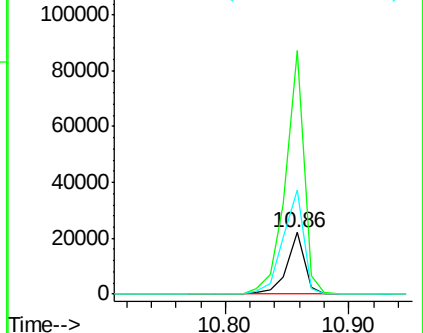
152 194.6 155.6 233.4

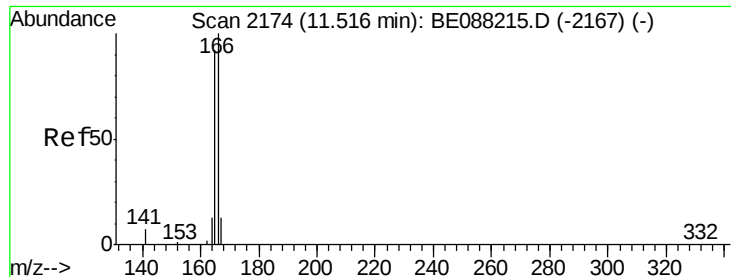


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 1.12 ng

RT: 11.52 min Scan# 2175

Delta R.T. 0.00 min

Lab File: BE088216.D

Acq: 24 Oct 2014 17:09

Instrument :

BNA_E

ClientSampleId :

ICVBE102414

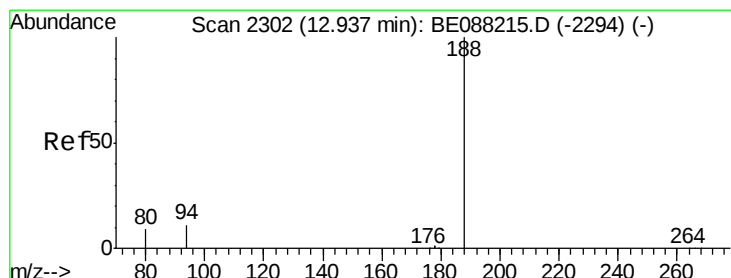
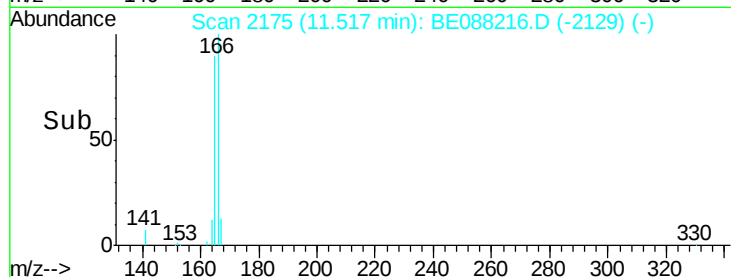
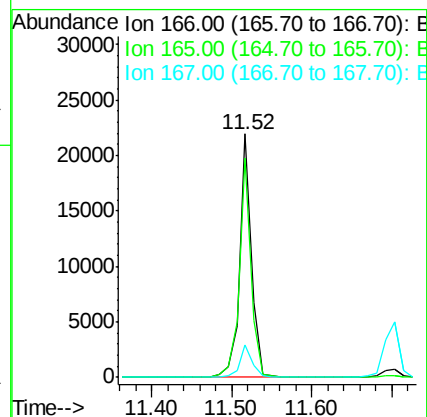
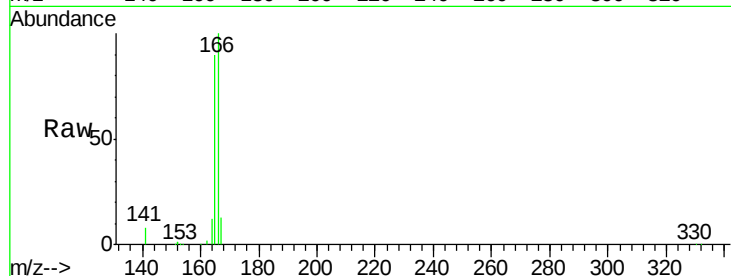
Tgt Ion:166 Resp: 23030

Ion Ratio Lower Upper

166 100

165 89.5 71.8 107.6

167 13.5 10.7 16.1



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.94 min Scan# 2303

Delta R.T. 0.00 min

Lab File: BE088216.D

Acq: 24 Oct 2014 17:09

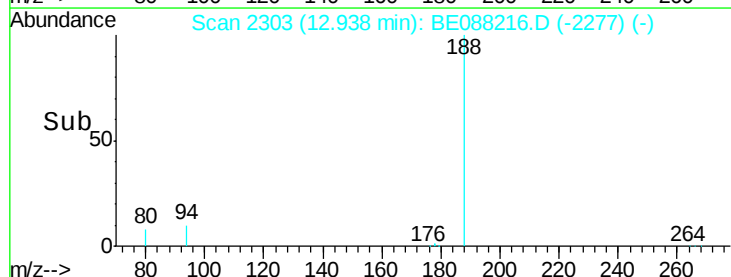
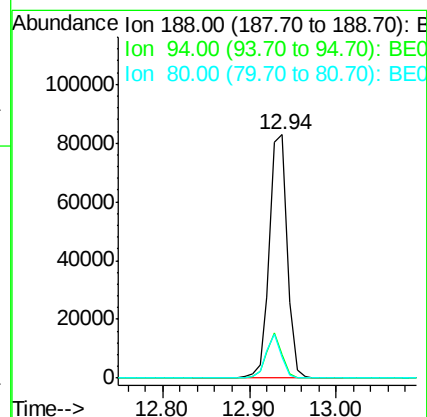
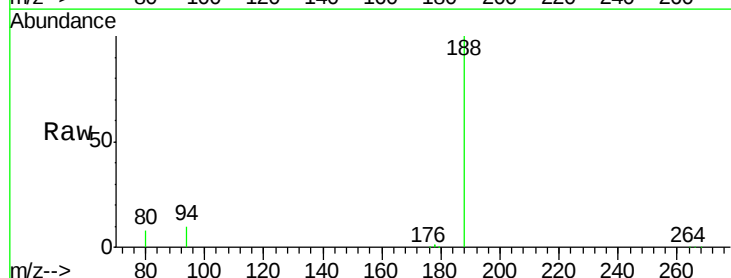
Tgt Ion:188 Resp: 147219

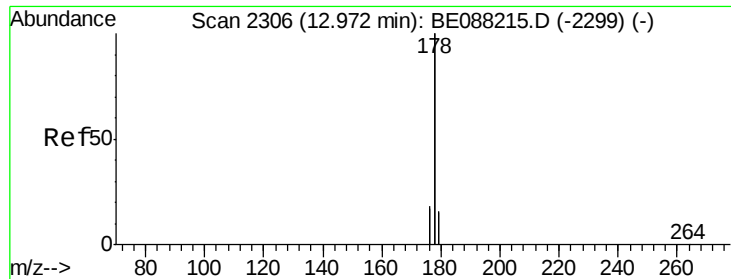
Ion Ratio Lower Upper

188 100

94 9.8 8.5 12.7

80 8.5 7.4 11.0





#13

Phenanthrene

Concen: 1.08 ng

RT: 12.97 min Scan# 2307

Delta R.T. 0.00 min

Lab File: BE088216.D

Acq: 24 Oct 2014 17:09

Instrument :

BNA_E

ClientSampleId :

ICVBE102414

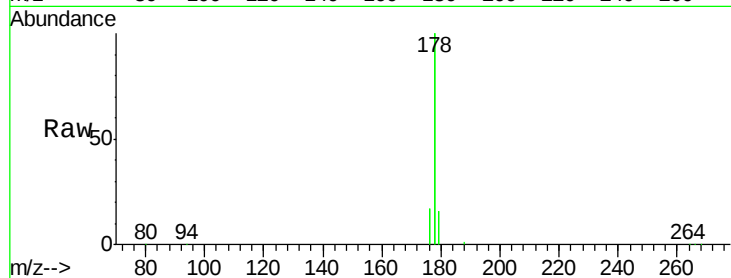
Tgt Ion:178 Resp: 152988

Ion Ratio Lower Upper

178 100

176 19.4 14.0 21.0

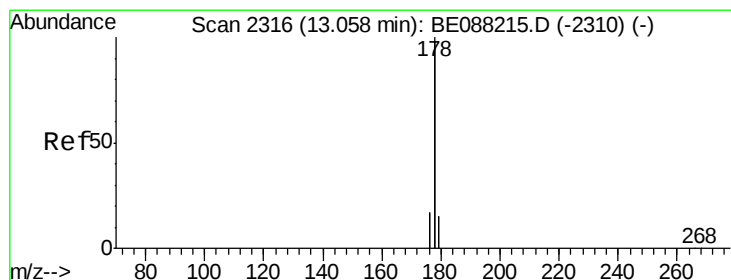
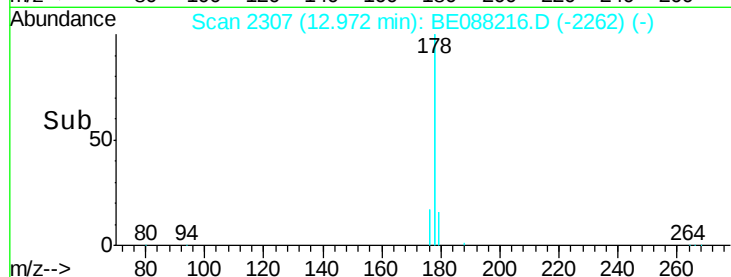
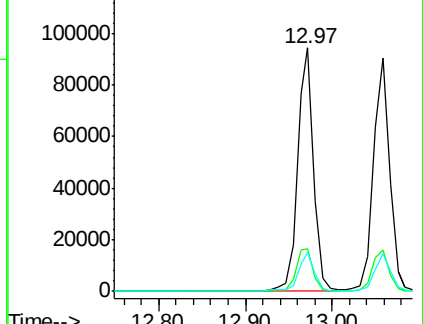
179 16.3 11.8 17.6



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: 1.12 ng

RT: 13.06 min Scan# 2317

Delta R.T. 0.00 min

Lab File: BE088216.D

Acq: 24 Oct 2014 17:09

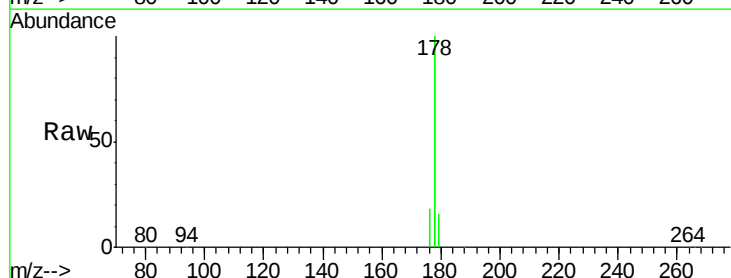
Tgt Ion:178 Resp: 116979

Ion Ratio Lower Upper

178 100

176 18.3 14.7 22.1

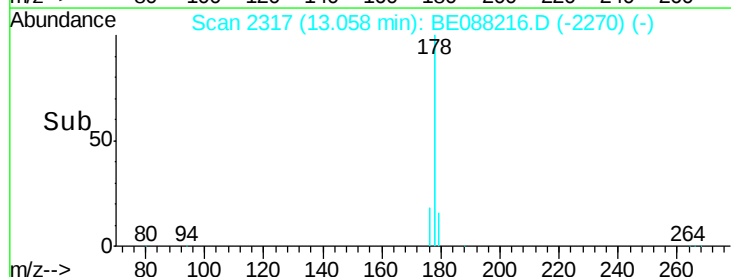
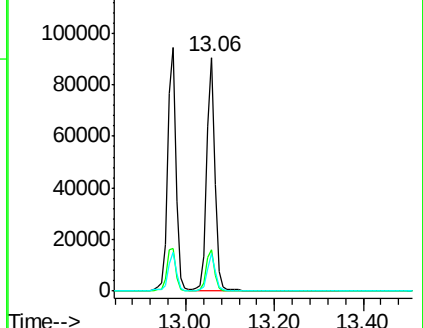
179 15.6 12.3 18.5

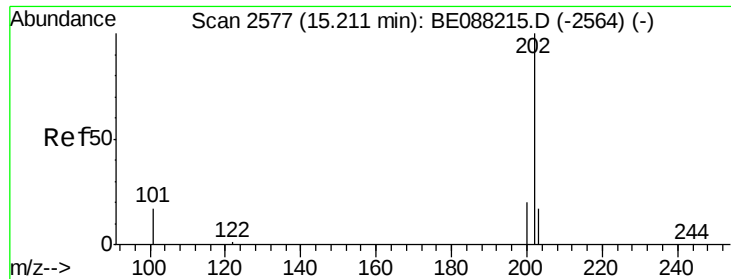


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

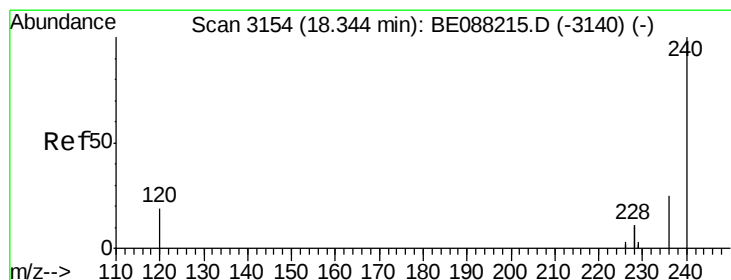
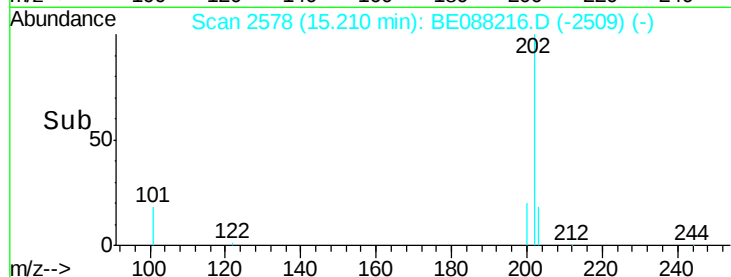
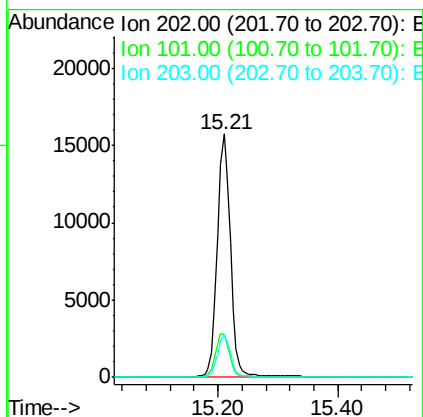
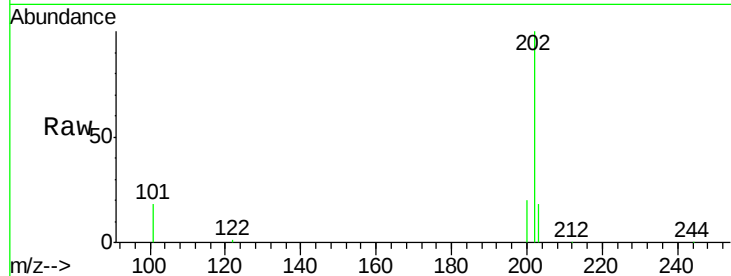




#15
Fluoranthene
Concen: 1.12 ng
RT: 15.21 min Scan# 2578
Delta R.T. -0.00 min
Lab File: BE088216.D
Acq: 24 Oct 2014 17:09

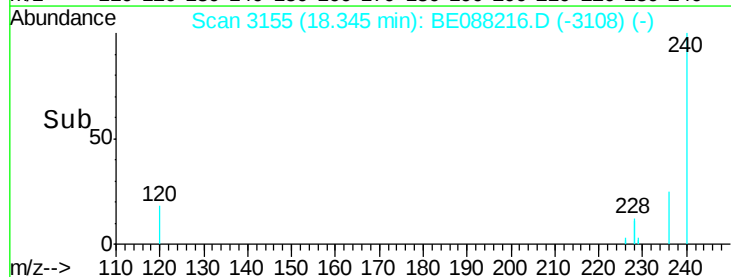
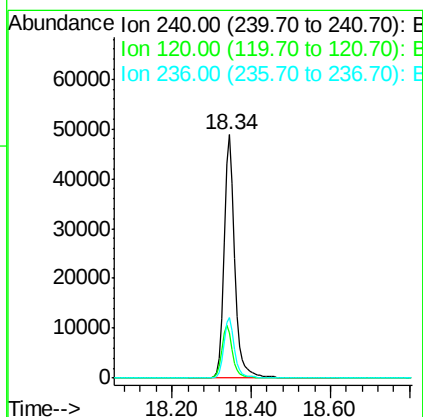
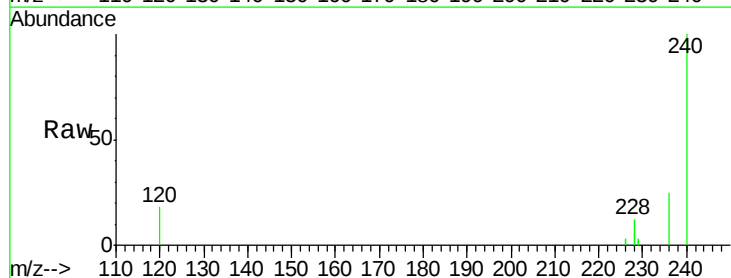
Instrument :
BNA_E
ClientSampleId :
ICVBE102414

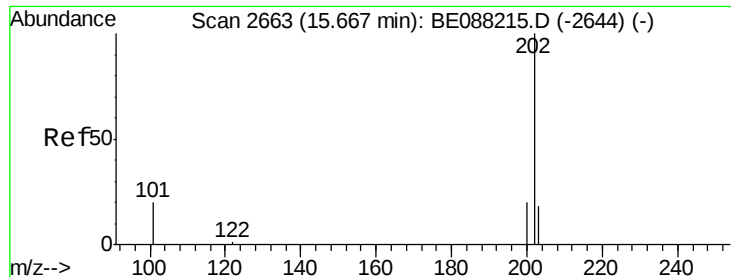
Tgt Ion: 202 Resp: 24078
Ion Ratio Lower Upper
202 100
101 18.1 14.4 21.6
203 17.1 13.4 20.2



#16
Chrysene-d12
Concen: 5.00 ng
RT: 18.34 min Scan# 3155
Delta R.T. 0.00 min
Lab File: BE088216.D
Acq: 24 Oct 2014 17:09

Tgt Ion: 240 Resp: 89367
Ion Ratio Lower Upper
240 100
120 18.4 15.1 22.7
236 24.9 20.1 30.1

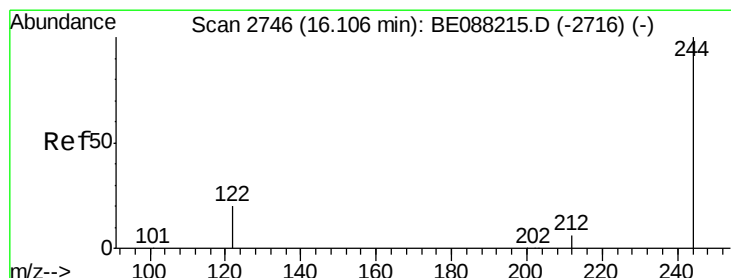
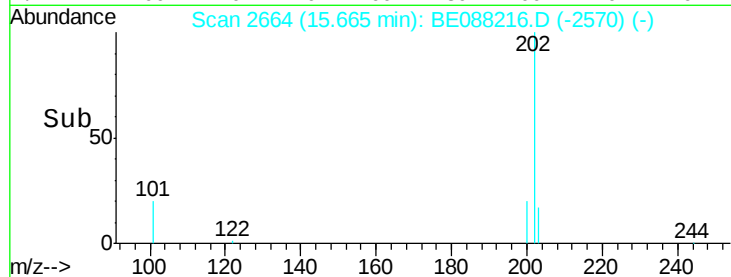
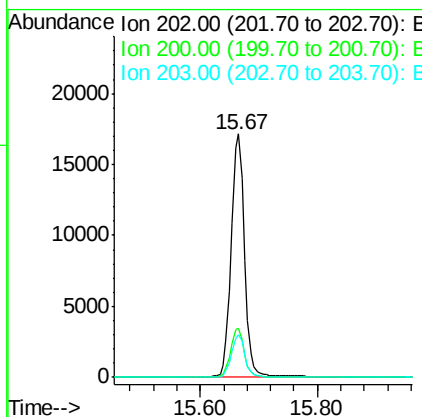
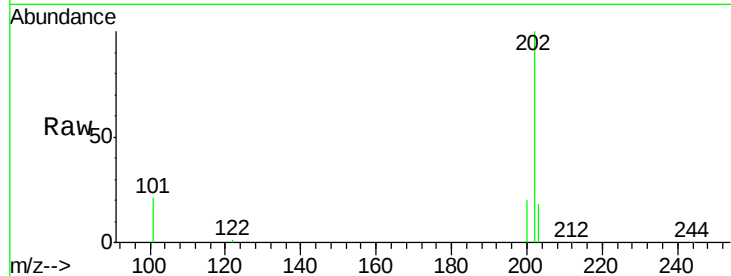




#17
 Pyrene
 Concen: 1.08 ng
 RT: 15.67 min Scan# 2664
 Delta R.T. -0.00 min
 Lab File: BE088216.D
 Acq: 24 Oct 2014 17:09

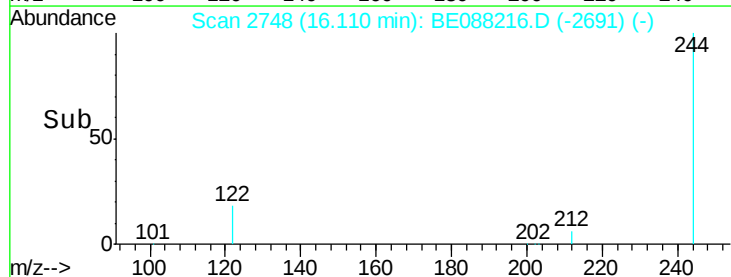
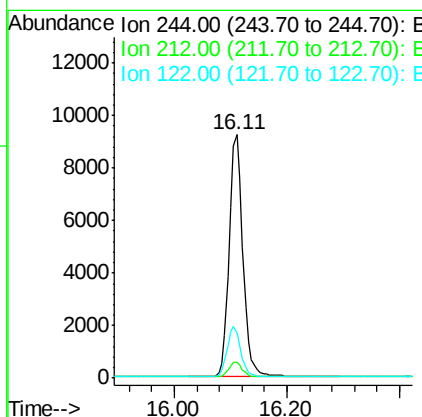
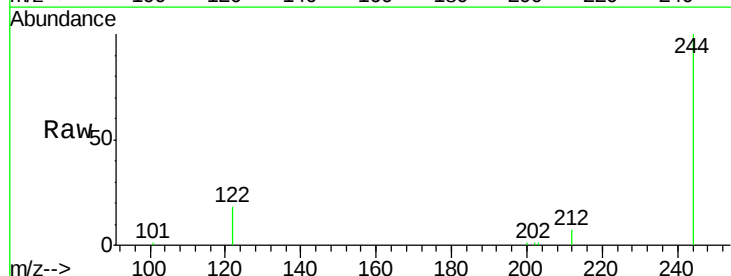
Instrument :
 BNA_E
 ClientSampleId :
 ICVBE102414

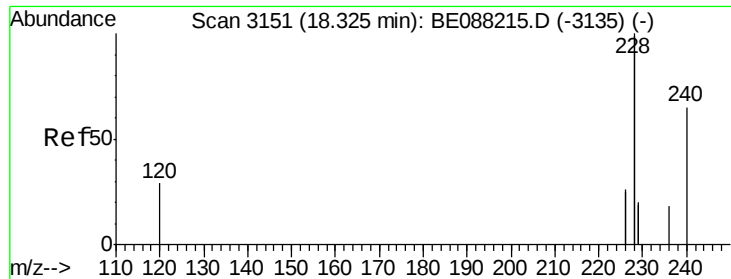
Tgt Ion: 202 Resp: 26571
 Ion Ratio Lower Upper
 202 100
 200 20.2 16.2 24.2
 203 17.2 13.8 20.8



#18
 Terphenyl-d14
 Concen: 1.08 ng
 RT: 16.11 min Scan# 2748
 Delta R.T. 0.00 min
 Lab File: BE088216.D
 Acq: 24 Oct 2014 17:09

Tgt Ion: 244 Resp: 15776
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.4 8.2
 122 18.5 16.7 25.1





#19

Benzo(a)anthracene

Concen: 1.04 ng

RT: 18.33 min Scan# 3152

Delta R.T. 0.00 min

Lab File: BE088216.D

Acq: 24 Oct 2014 17:09

Instrument :

BNA_E

ClientSampleId :

ICVBE102414

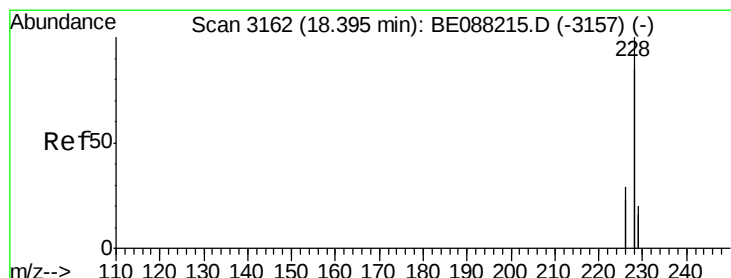
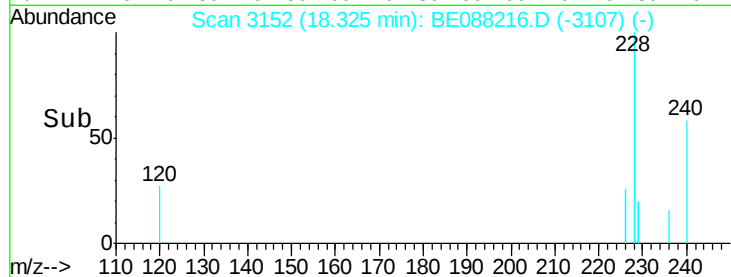
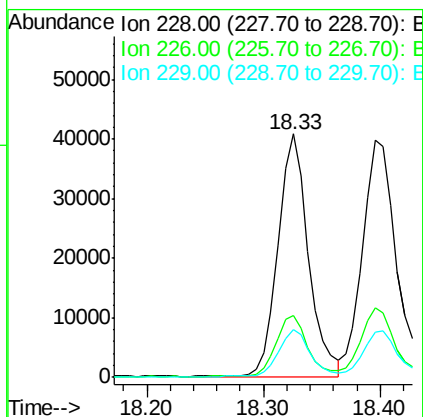
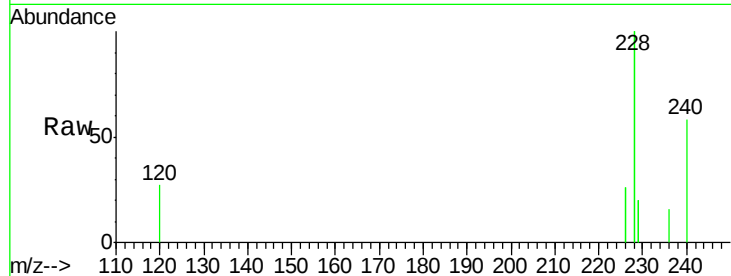
Tgt Ion:228 Resp: 73431

Ion Ratio Lower Upper

228 100

226 25.6 20.5 30.7

229 19.8 16.1 24.1



#20

Chrysene

Concen: 1.06 ng

RT: 18.40 min Scan# 3163

Delta R.T. 0.00 min

Lab File: BE088216.D

Acq: 24 Oct 2014 17:09

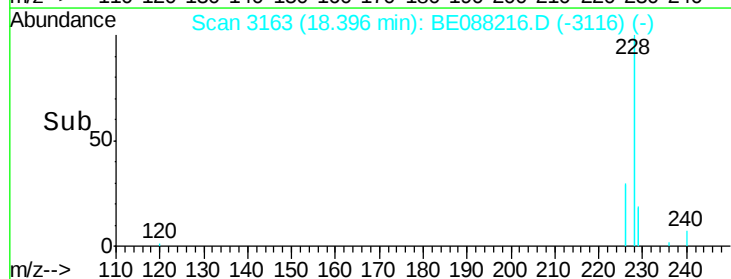
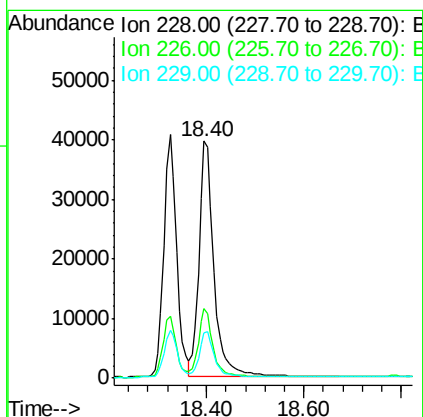
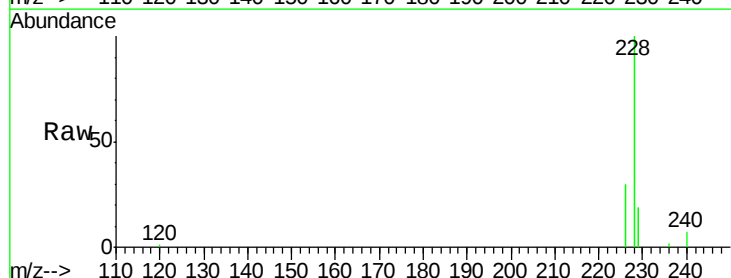
Tgt Ion:228 Resp: 84480

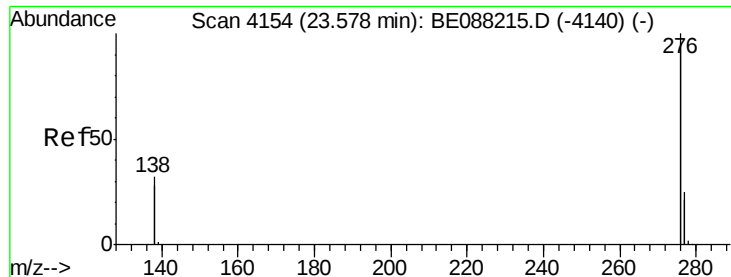
Ion Ratio Lower Upper

228 100

226 29.5 23.3 34.9

229 19.1 15.6 23.4





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.75 ng

RT: 23.58 min Scan# 4155

Delta R.T. -0.00 min

Lab File: BE088216.D

Acq: 24 Oct 2014 17:09

Instrument :

BNA_E

ClientSampleId :

ICVBE102414

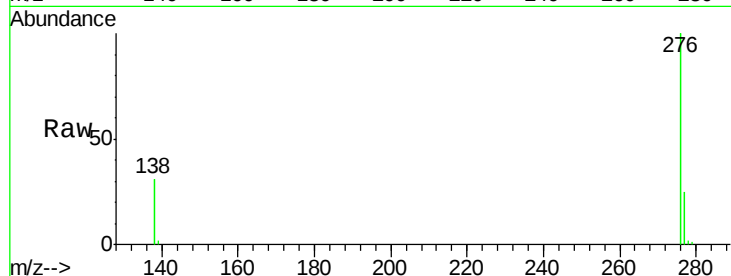
Tgt Ion: 276 Resp: 44382

Ion Ratio Lower Upper

276 100

138 29.1 13.9 20.9#

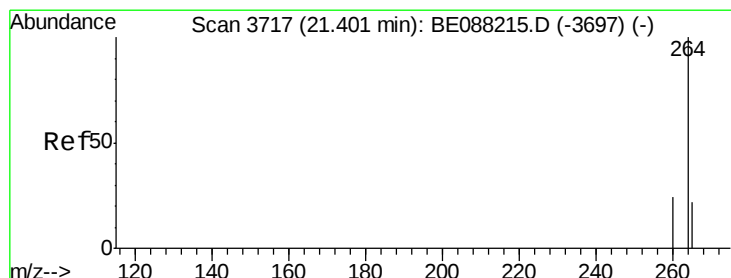
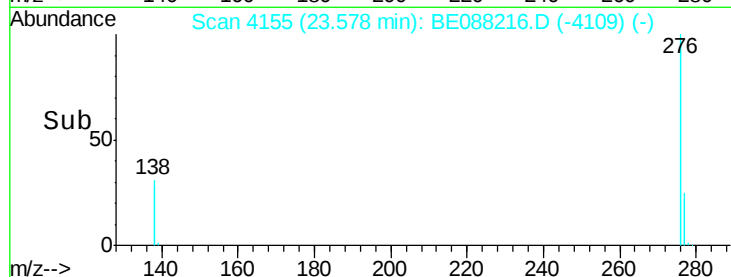
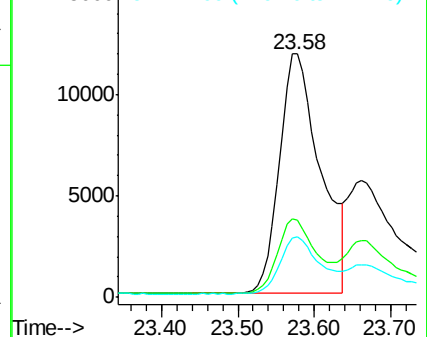
277 22.6 10.7 16.1#



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# 3717

Delta R.T. -0.00 min

Lab File: BE088216.D

Acq: 24 Oct 2014 17:09

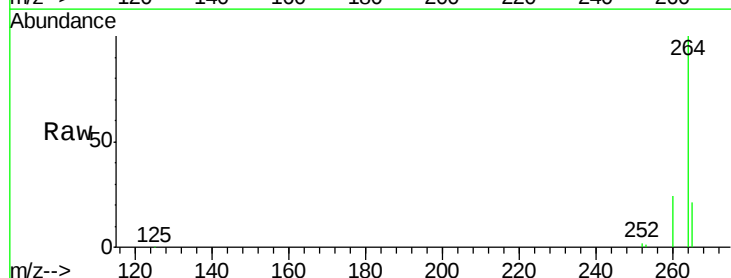
Tgt Ion: 264 Resp: 80909

Ion Ratio Lower Upper

264 100

260 24.1 19.0 28.4

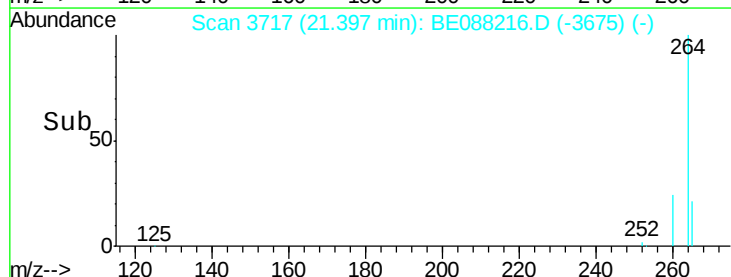
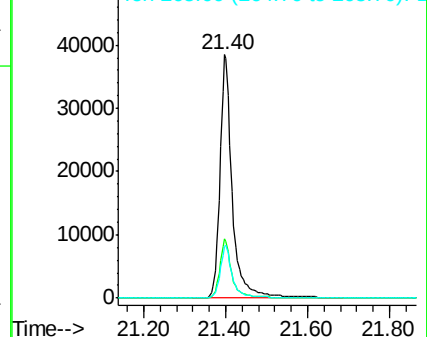
265 21.3 17.4 26.2

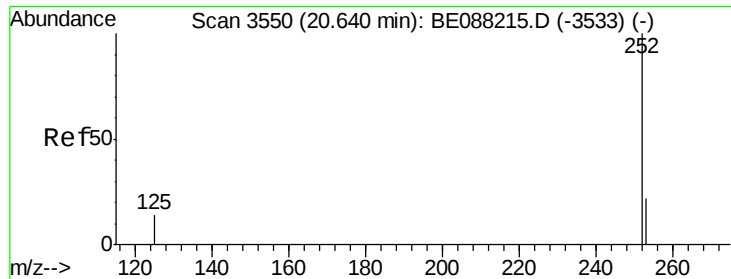


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 0.97 ng

RT: 20.64 min Scan# 3551

Delta R.T. 0.00 min

Lab File: BE088216.D

Acq: 24 Oct 2014 17:09

Instrument :

BNA_E

ClientSampleId :

ICVBE102414

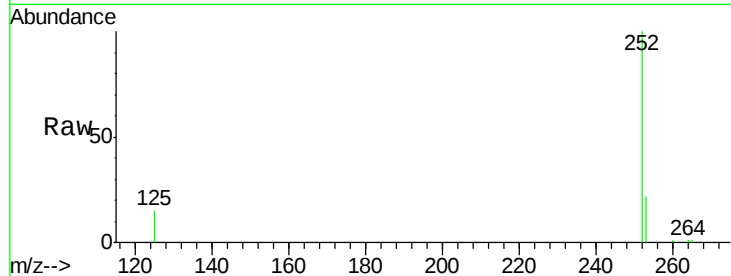
Tgt Ion:252 Resp: 14275

Ion Ratio Lower Upper

252 100

253 22.3 17.9 26.9

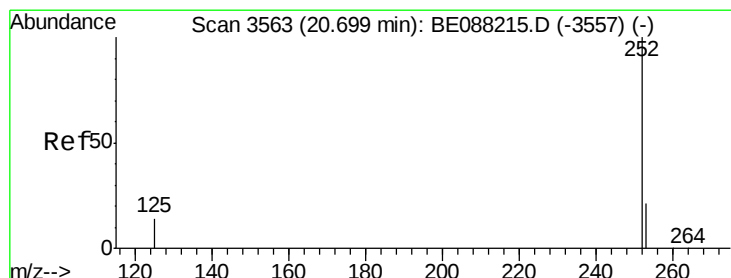
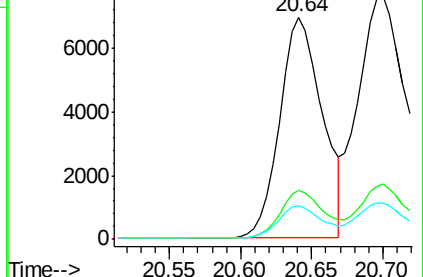
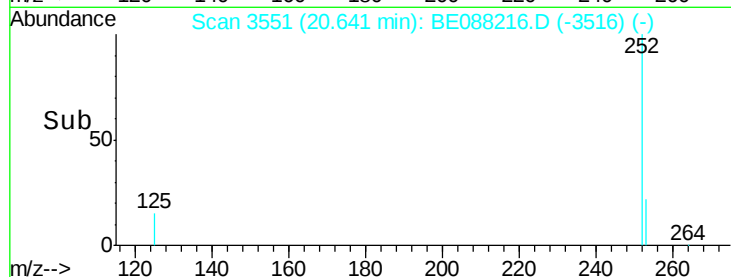
125 15.3 12.2 18.2



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: 1.11 ng

RT: 20.70 min Scan# 3564

Delta R.T. 0.00 min

Lab File: BE088216.D

Acq: 24 Oct 2014 17:09

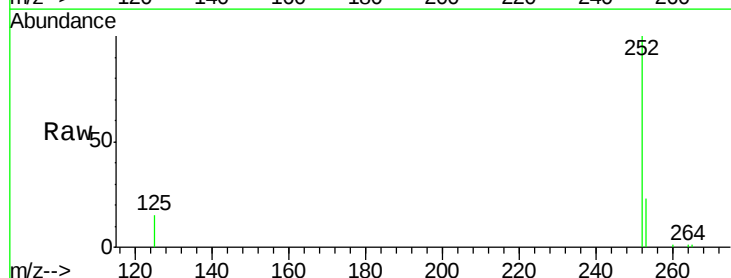
Tgt Ion:252 Resp: 23127

Ion Ratio Lower Upper

252 100

253 22.6 17.6 26.4

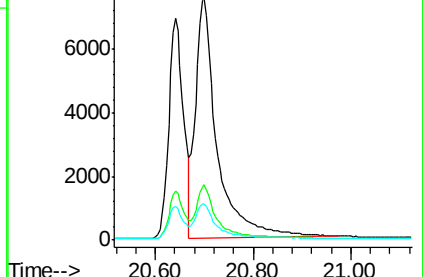
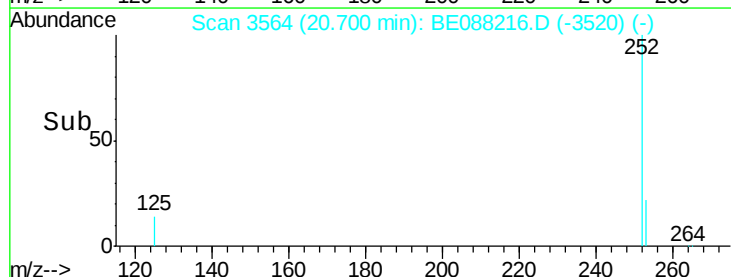
125 14.9 12.1 18.1

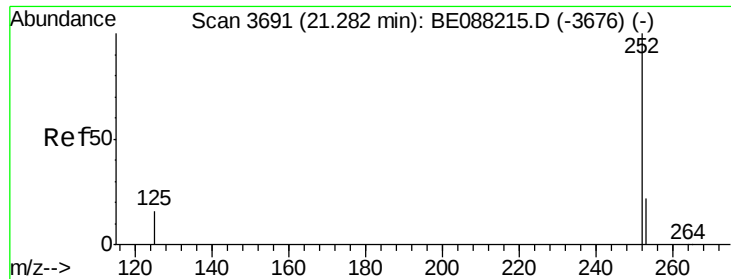


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 1.00 ng

RT: 21.28 min Scan# 3692

Delta R.T. 0.00 min

Lab File: BE088216.D

Acq: 24 Oct 2014 17:09

Instrument :

BNA_E

ClientSampleId :

ICVBE102414

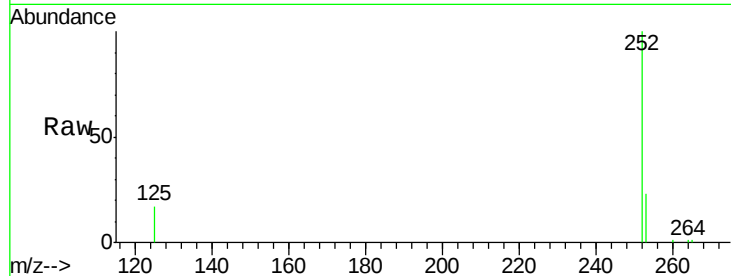
Tgt Ion:252 Resp: 14593

Ion Ratio Lower Upper

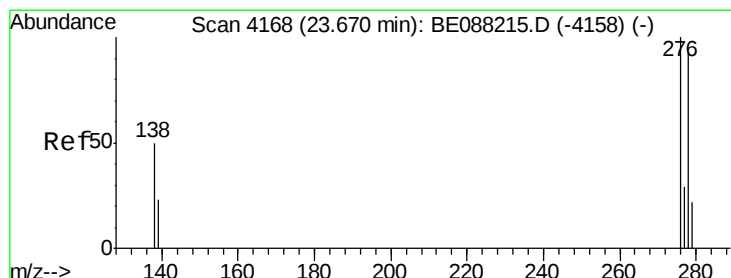
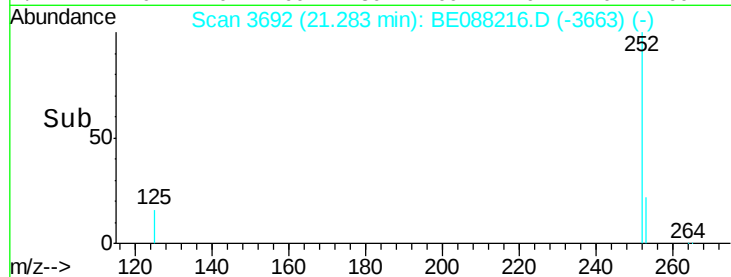
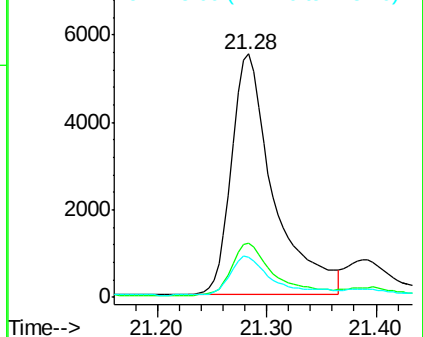
252 100

253 22.5 17.8 26.8

125 16.7 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: 1.02 ng

RT: 23.67 min Scan# 4169

Delta R.T. 0.00 min

Lab File: BE088216.D

Acq: 24 Oct 2014 17:09

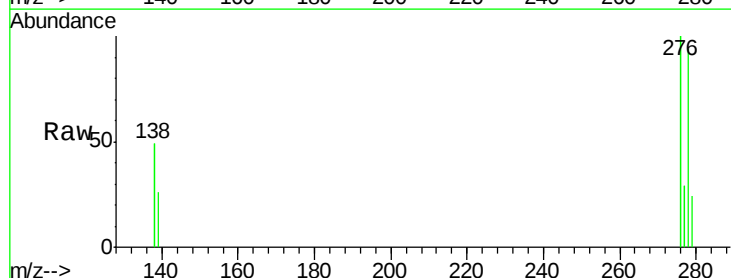
Tgt Ion:278 Resp: 13642

Ion Ratio Lower Upper

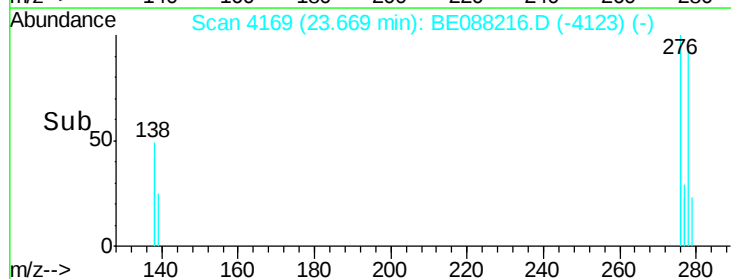
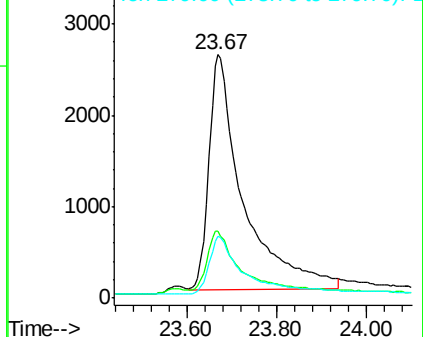
278 100

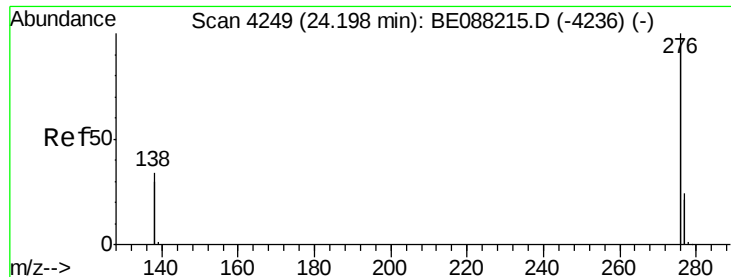
139 27.8 22.1 33.1

279 25.7 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: 1.09 ng

RT: 24.20 min Scan# 4250

Delta R.T. -0.00 min

Lab File: BE088216.D

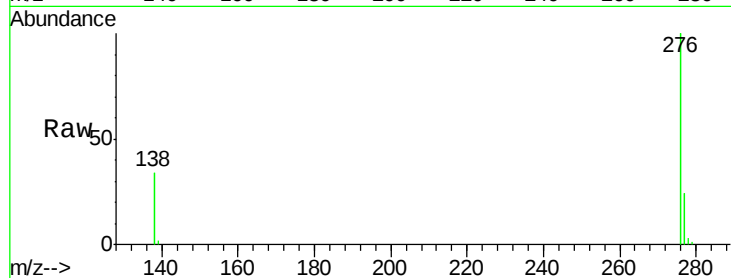
Acq: 24 Oct 2014 17:09

Instrument :

BNA_E

ClientSampleId :

ICVBE102414



Tgt Ion: 276 Resp: 70844

Ion Ratio Lower Upper

276 100

277 24.2 19.4 29.2

138 34.1 27.3 40.9

