

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102014\
 Data File : BE088116.D
 Acq On : 20 Oct 2014 20:09
 Operator : TP/JJ
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.2

Quant Time: Oct 21 01:56:45 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102014.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 21 01:52:35 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	53063	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	199488	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	89655	5.00	ng	0.00
12) Phenanthrene-d10	12.97	188	161001	5.00	ng	0.00
16) Chrysene-d12	18.39	240	122418	5.00	ng	0.00
22) Perylene-d12	21.45	264	114594	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.82	82	2812	0.23	ng	0.00
8) 2-Fluorobiphenyl	10.03	172	5105	0.21	ng	0.00
18) Terphenyl-d14	16.15	244	3948	0.21	ng	0.00

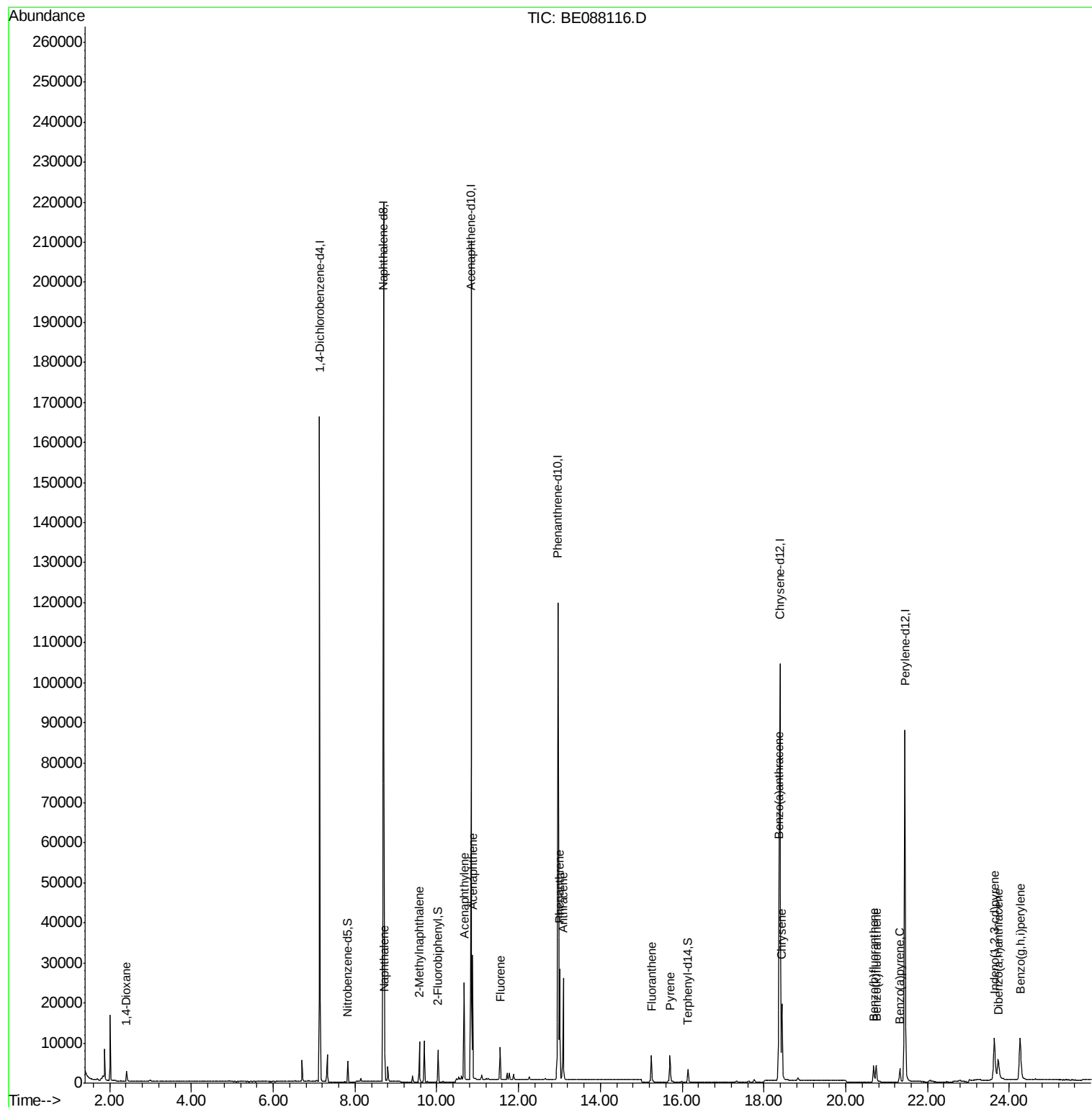
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.41	88	1567	0.21	ng	# 85
5) Naphthalene	8.72	128	8694	0.21	ng	99
6) 2-Methylnaphthalene	9.57	142	5066	0.21	ng	99
9) Acenaphthylene	10.67	152	27777	0.22	ng	100
10) Acenaphthene	10.88	154	4531	0.22	ng	90
11) Fluorene	11.55	166	4597	0.22	ng	100
13) Phenanthrene	13.01	178	36916	0.25	ng	# 94
14) Anthracene	13.09	178	26237	0.20	ng	99
15) Fluoranthene	15.25	202	6539	0.21	ng	100
17) Pyrene	15.70	202	6934	0.22	ng	100
19) Benzo(a)anthracene	18.36	228	22663	0.24	ng	98
20) Chrysene	18.44	228	22043	0.19	ng	98
21) Indeno(1,2,3-cd)pyrene	23.63	276	19864	0.21	ng	# 84
23) Benzo(b)fluoranthene	20.69	252	5590	0.26	ng	96
24) Benzo(k)fluoranthene	20.74	252	6061	0.20	ng	98
25) Benzo(a)pyrene	21.32	252	4990	0.27	ng	97
26) Dibenzo(a,h)anthracene	23.73	278	4944	0.25	ng	96
27) Benzo(g,h,i)perylene	24.26	276	22417	0.24	ng	98

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1257

Delta R.T. -0.00 min

Lab File: BE088116.D

Acq: 20 Oct 2014 20:09

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

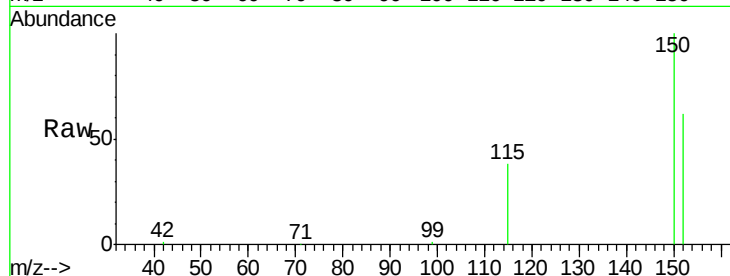
Tgt Ion:152 Resp: 53063

Ion Ratio Lower Upper

152 100

150 161.0 129.2 193.8

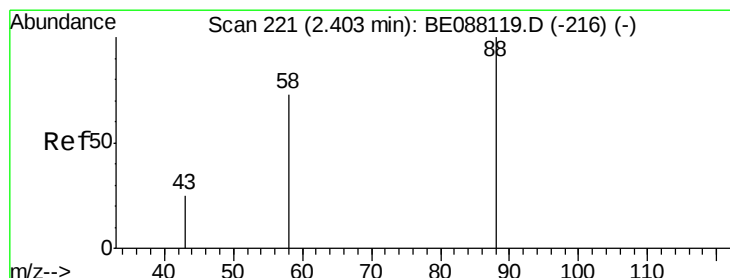
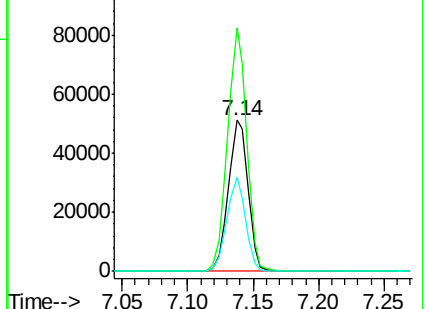
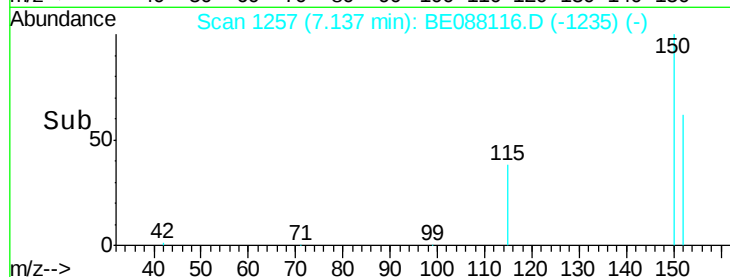
115 61.7 49.3 73.9



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: 2.41 min Scan# 223

Delta R.T. 0.01 min

Lab File: BE088116.D

Acq: 20 Oct 2014 20:09

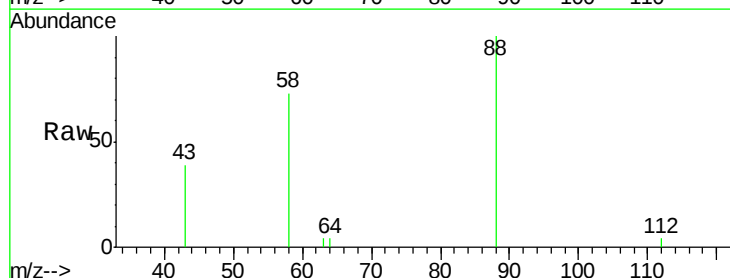
Tgt Ion: 88 Resp: 1567

Ion Ratio Lower Upper

88 100

58 72.6 59.5 89.3

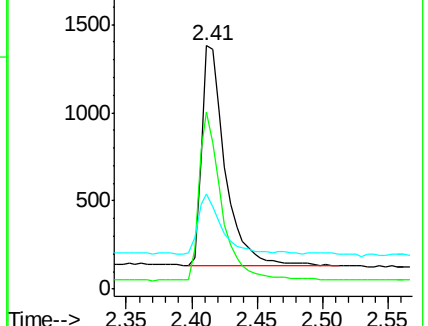
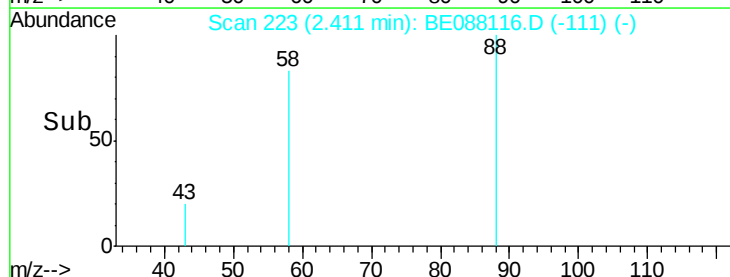
43 0.0 21.2 31.8#

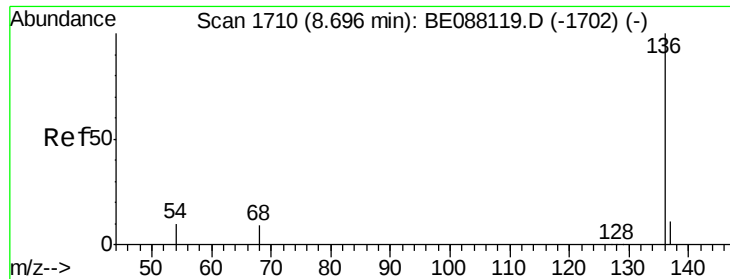


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

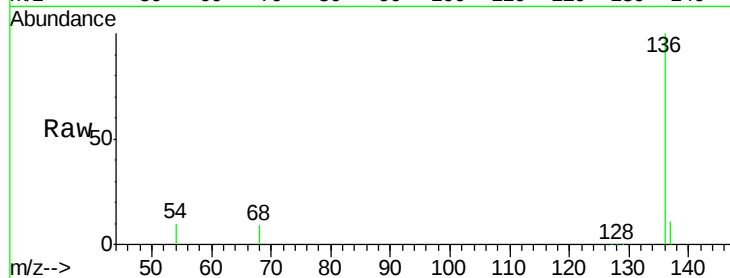




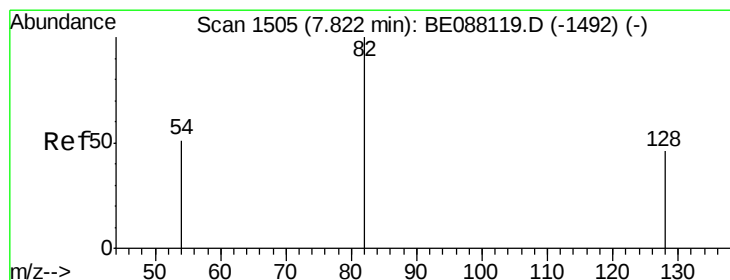
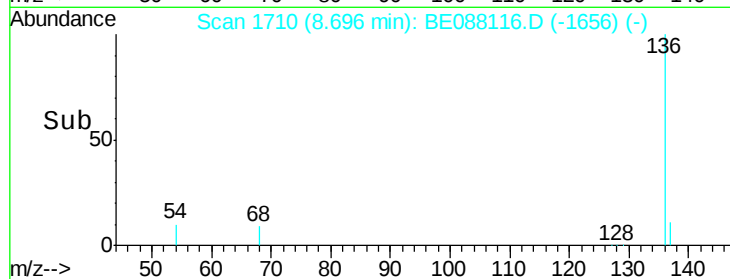
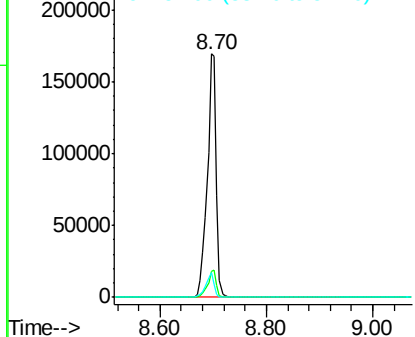
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.70 min Scan# 1710
Delta R.T. 0.00 min
Lab File: BE088116.D
Acq: 20 Oct 2014 20:09

Instrument :
BNA_E
ClientSampleId :
SSTDIC0.2

Tgt Ion: 136 Resp: 199488
Ion Ratio Lower Upper
136 100
137 10.7 8.6 12.8
54 9.9 7.7 11.5

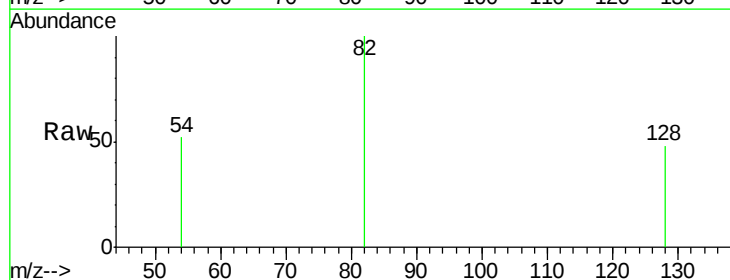


Abundance Ion 136.00 (135.70 to 136.70): B
Ion 137.00 (136.70 to 137.70): B
Ion 54.00 (53.70 to 54.70): B

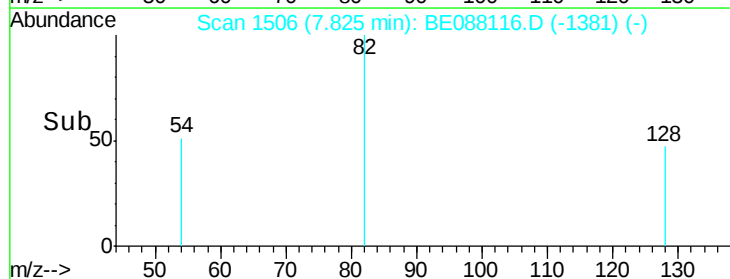
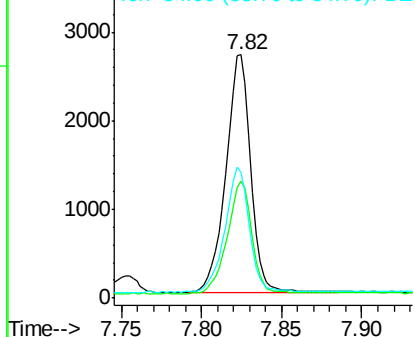


#4
Nitrobenzene-d5
Concen: 0.23 ng
RT: 7.82 min Scan# 1506
Delta R.T. 0.00 min
Lab File: BE088116.D
Acq: 20 Oct 2014 20:09

Tgt Ion: 82 Resp: 2812
Ion Ratio Lower Upper
82 100
128 48.1 37.1 55.7
54 51.9 41.1 61.7



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





#5

Naphthalene

Concen: 0.21 ng

RT: 8.72 min Scan# 1715

Delta R.T. 0.00 min

Lab File: BE088116.D

Acq: 20 Oct 2014 20:09

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

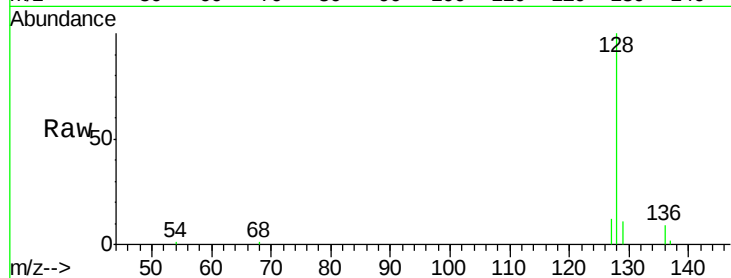
Tgt Ion:128 Resp: 8694

Ion Ratio Lower Upper

128 100

129 11.4 8.9 13.3

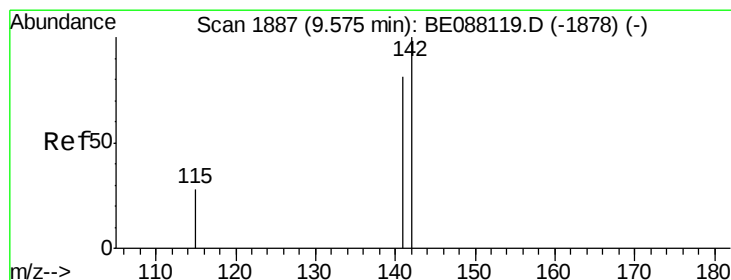
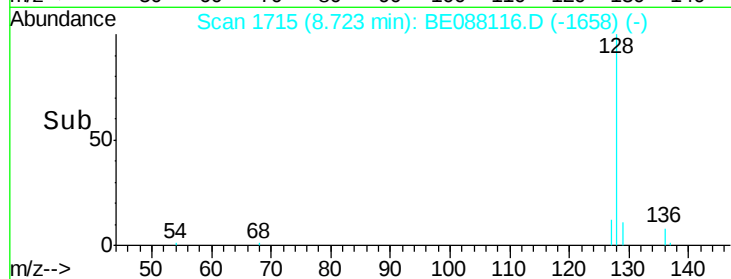
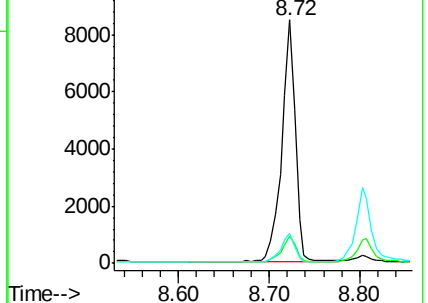
127 12.5 9.7 14.5



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: 0.21 ng

RT: 9.57 min Scan# 1887

Delta R.T. -0.00 min

Lab File: BE088116.D

Acq: 20 Oct 2014 20:09

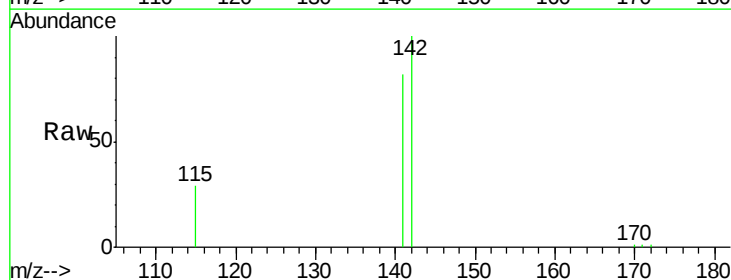
Tgt Ion:142 Resp: 5066

Ion Ratio Lower Upper

142 100

141 81.5 64.6 97.0

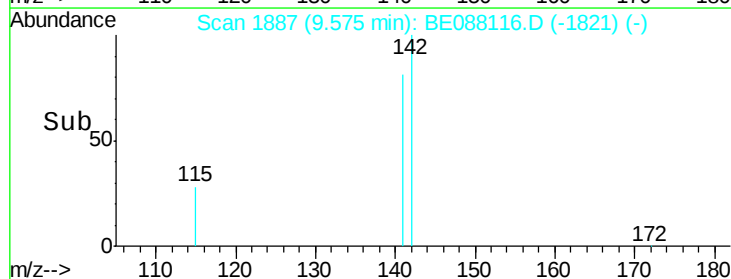
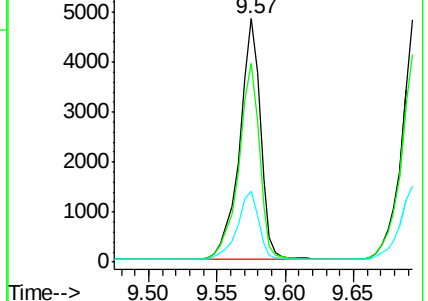
115 29.2 22.6 34.0



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: 10.85 min Scan# 2113

Delta R.T. -0.00 min

Lab File: BE088116.D

Acq: 20 Oct 2014 20:09

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

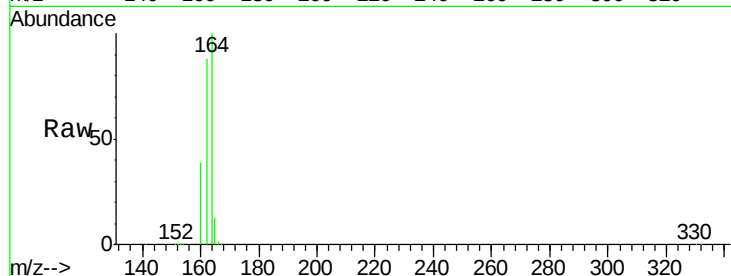
Tgt Ion:164 Resp: 89655

Ion Ratio Lower Upper

164 100

162 88.4 68.3 102.5

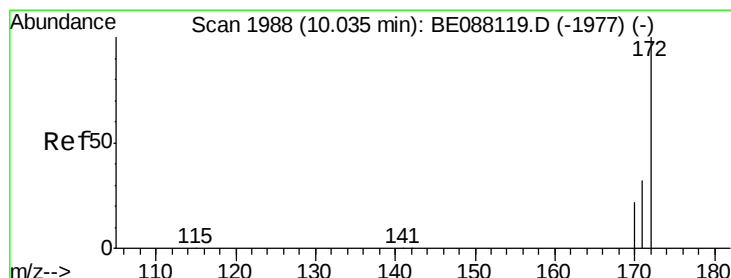
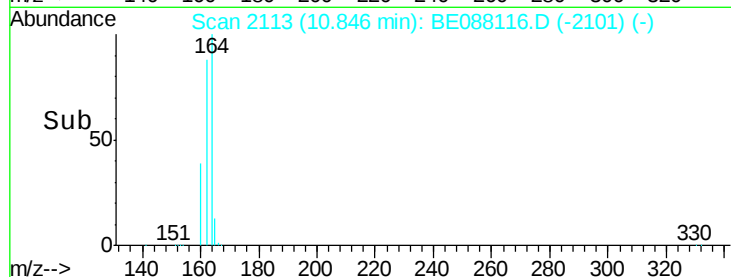
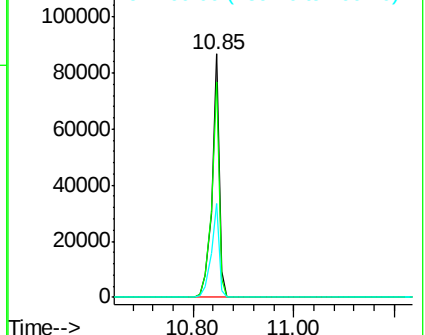
160 38.7 28.7 43.1



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: 0.21 ng

RT: 10.03 min Scan# 1988

Delta R.T. -0.00 min

Lab File: BE088116.D

Acq: 20 Oct 2014 20:09

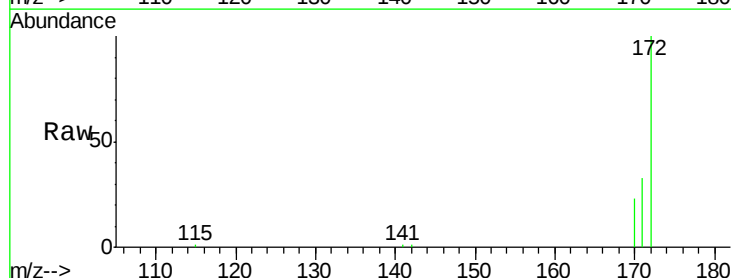
Tgt Ion:172 Resp: 5105

Ion Ratio Lower Upper

172 100

171 32.5 25.4 38.2

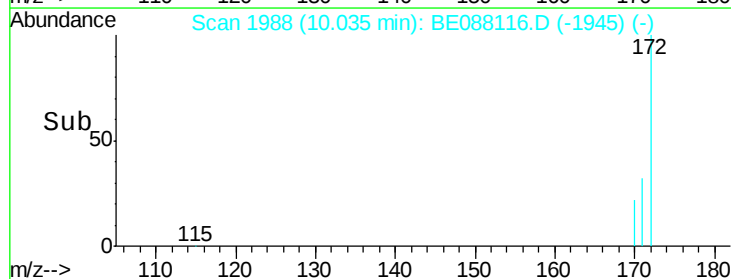
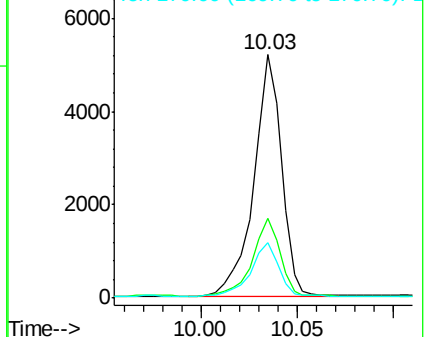
170 22.6 17.4 26.2

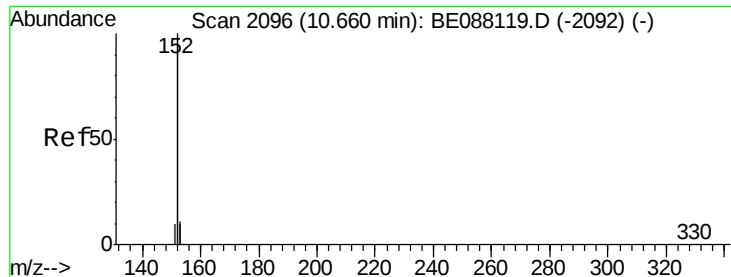


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 0.22 ng

RT: 10.67 min Scan# 2097

Delta R.T. 0.01 min

Lab File: BE088116.D

Acq: 20 Oct 2014 20:09

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

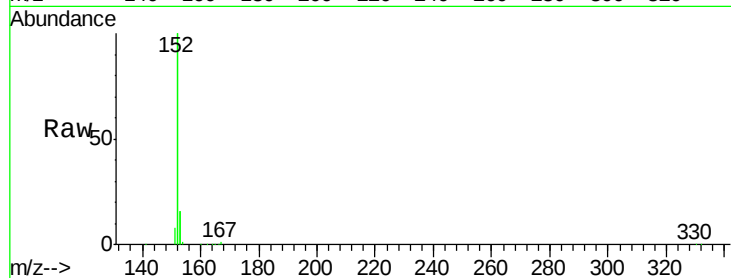
Tgt Ion:152 Resp: 27777

Ion Ratio Lower Upper

152 100

151 4.6 3.7 5.5

153 12.8 10.4 15.6



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

25000

20000

15000

10000

5000

0

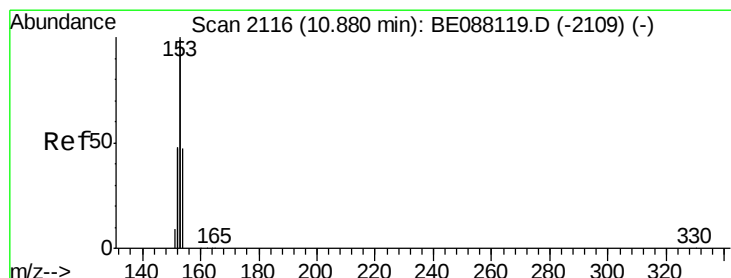
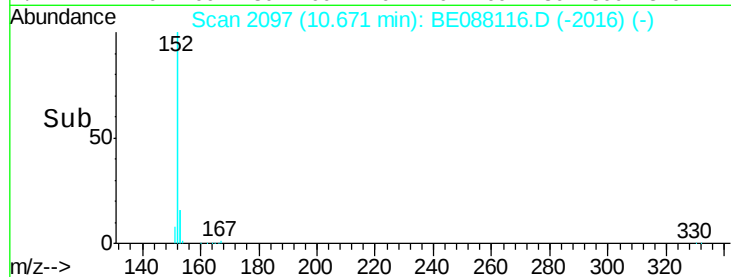
10.60

10.67

10.70

10.80

Time-->



#10

Acenaphthene

Concen: 0.22 ng

RT: 10.88 min Scan# 2116

Delta R.T. -0.00 min

Lab File: BE088116.D

Acq: 20 Oct 2014 20:09

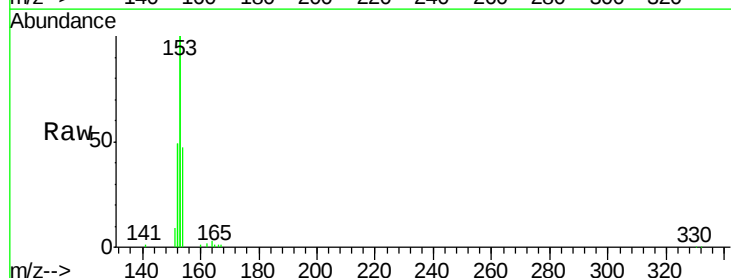
Tgt Ion:154 Resp: 4531

Ion Ratio Lower Upper

154 100

153 384.0 327.8 491.6

152 185.4 157.6 236.4



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

20000

15000

10000

5000

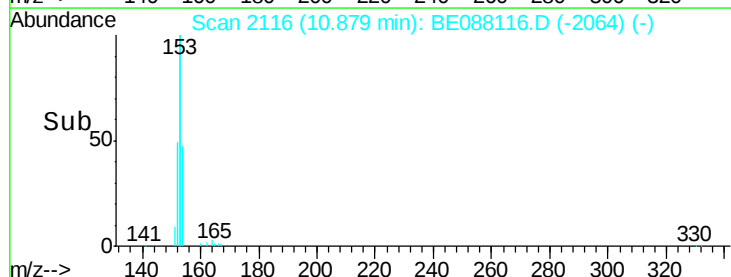
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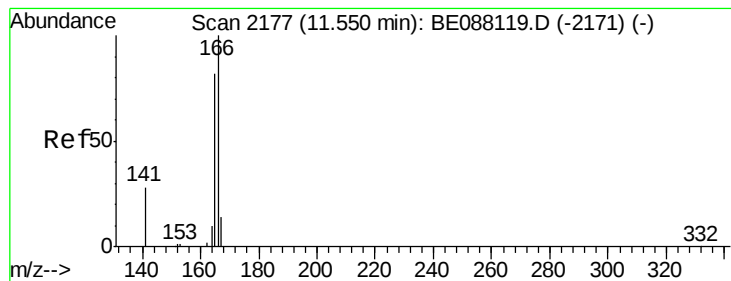
10.80

10.88

10.90

Time-->





#11

Fluorene

Concen: 0.22 ng

RT: 11.55 min Scan# 2177

Delta R.T. -0.00 min

Lab File: BE088116.D

Acq: 20 Oct 2014 20:09

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

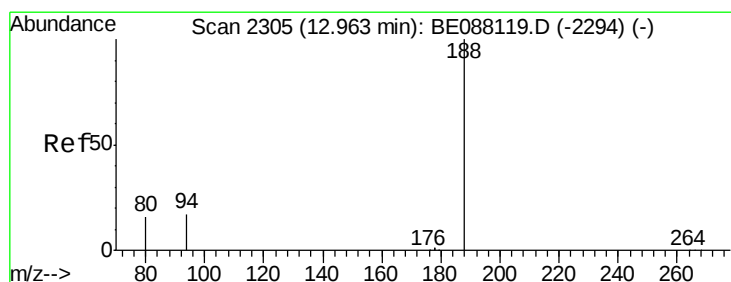
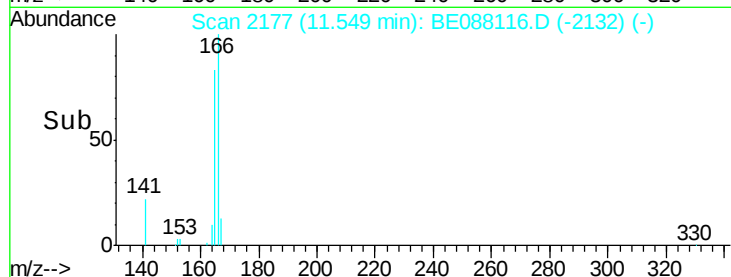
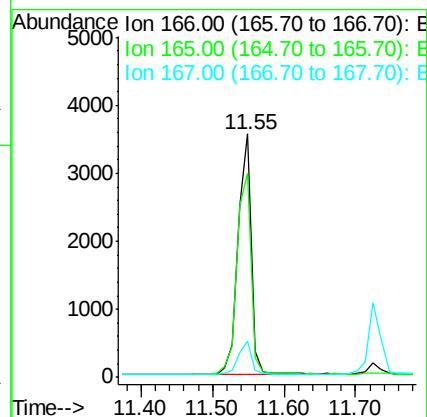
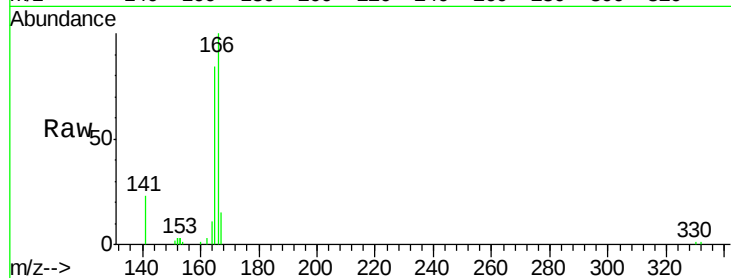
Tgt Ion:166 Resp: 4597

Ion Ratio Lower Upper

166 100

165 89.5 71.4 107.2

167 13.7 10.6 16.0



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.97 min Scan# 2306

Delta R.T. 0.01 min

Lab File: BE088116.D

Acq: 20 Oct 2014 20:09

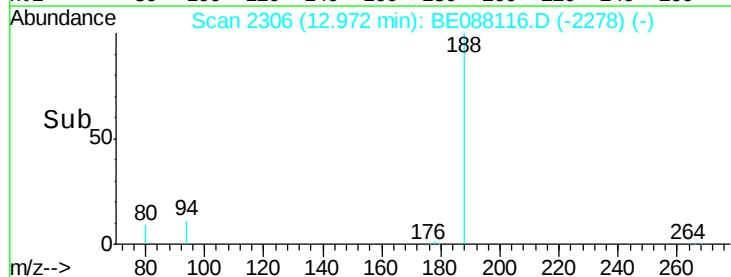
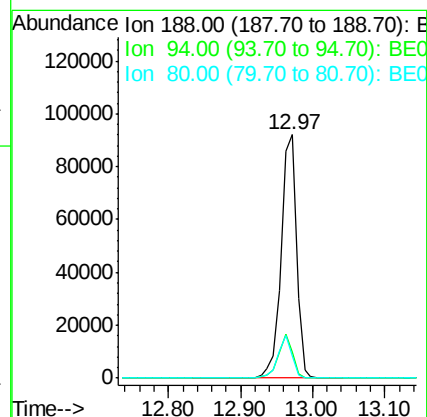
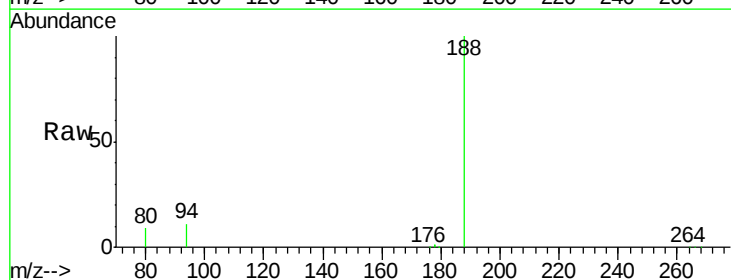
Tgt Ion:188 Resp: 161001

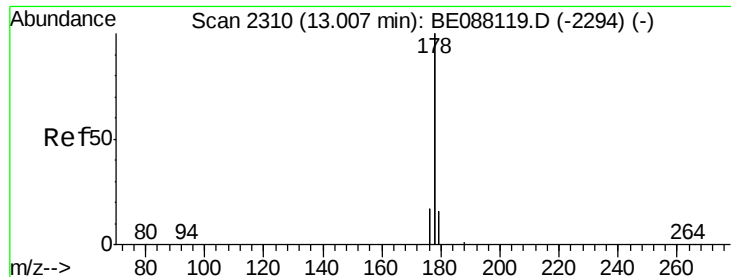
Ion Ratio Lower Upper

188 100

94 10.5 13.9 20.9#

80 9.1 12.9 19.3#





#13

Phenanthrene

Concen: 0.25 ng

RT: 13.01 min Scan# 2310

Delta R.T. -0.00 min

Lab File: BE088116.D

Acq: 20 Oct 2014 20:09

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

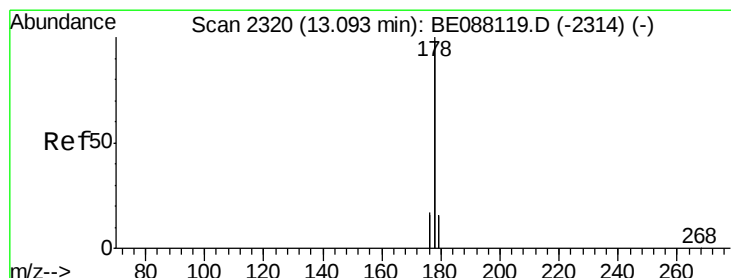
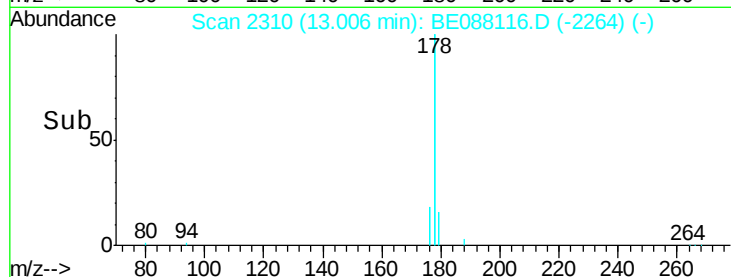
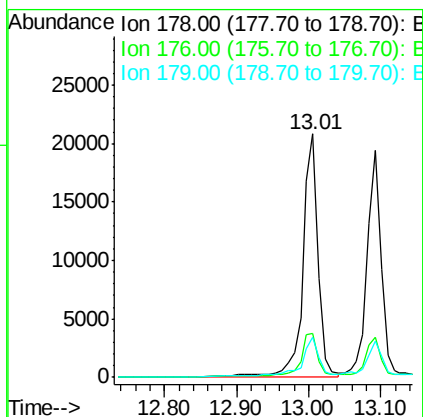
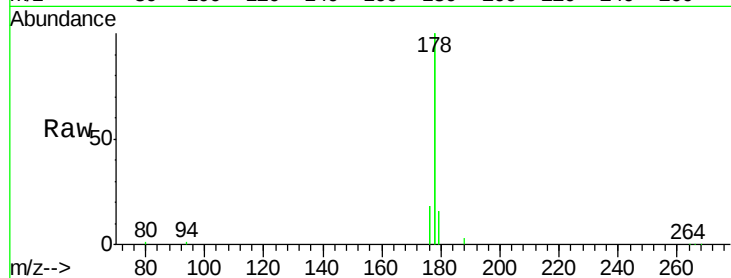
Tgt Ion:178 Resp: 36916

Ion Ratio Lower Upper

178 100

176 16.1 12.5 18.7

179 21.5 13.5 20.3#



#14

Anthracene

Concen: 0.20 ng

RT: 13.09 min Scan# 2320

Delta R.T. -0.00 min

Lab File: BE088116.D

Acq: 20 Oct 2014 20:09

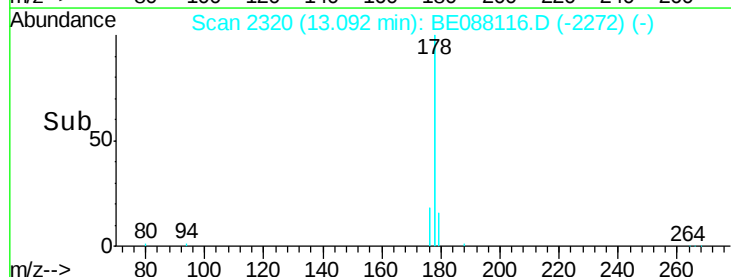
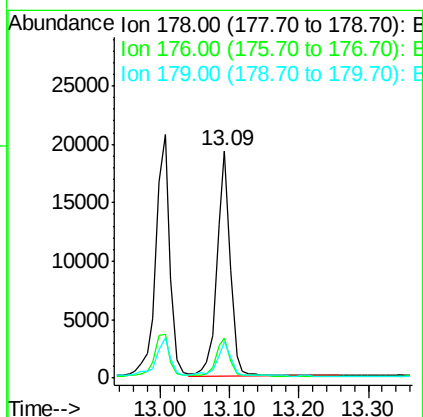
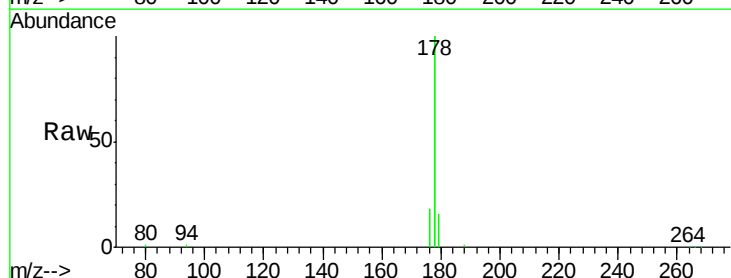
Tgt Ion:178 Resp: 26237

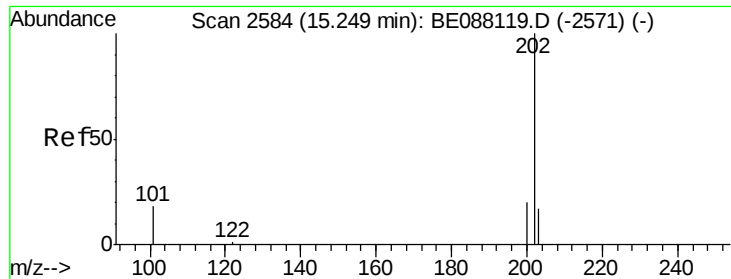
Ion Ratio Lower Upper

178 100

176 18.8 14.6 21.8

179 15.8 12.5 18.7

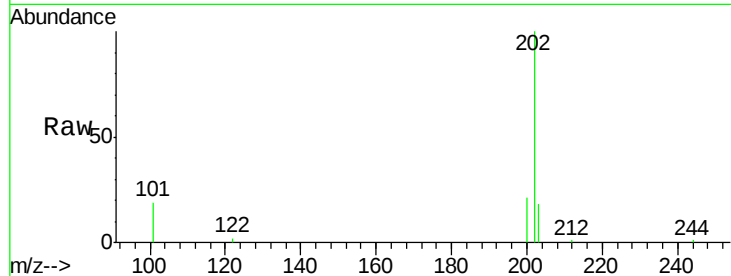




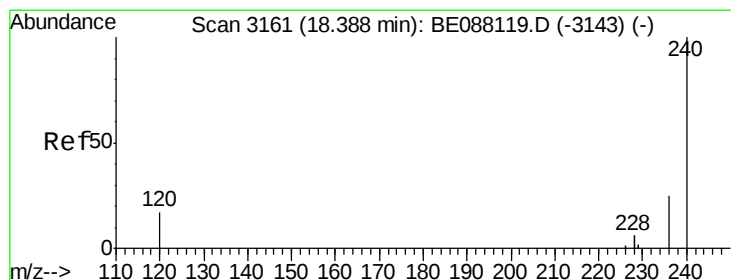
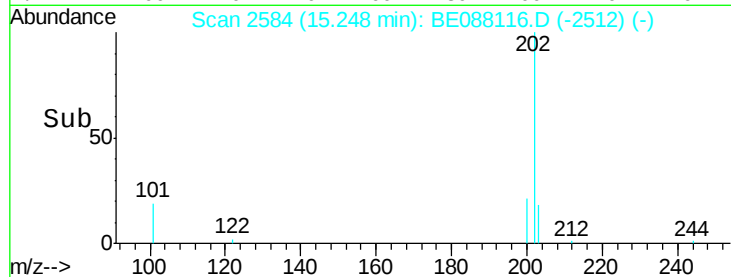
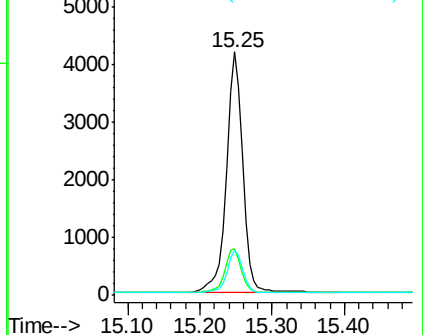
#15
 Fluoranthene
 Concen: 0.21 ng
 RT: 15.25 min Scan# 2584
 Delta R.T. -0.00 min
 Lab File: BE088116.D
 Acq: 20 Oct 2014 20:09

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.2

Tgt Ion: 202 Resp: 6539
 Ion Ratio Lower Upper
 202 100
 101 18.3 14.8 22.2
 203 16.9 13.5 20.3

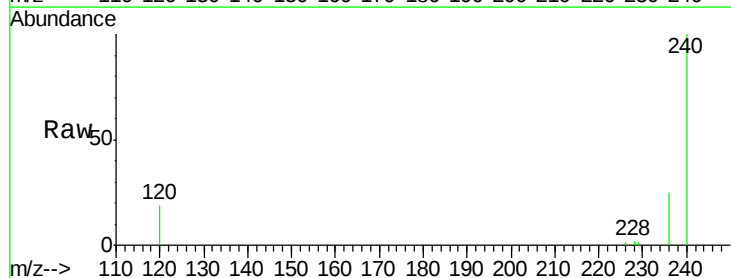


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

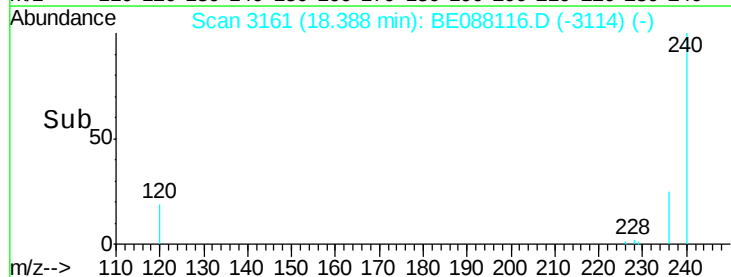
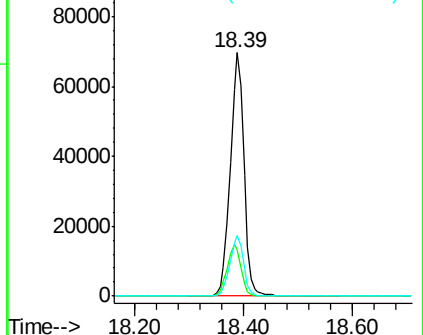


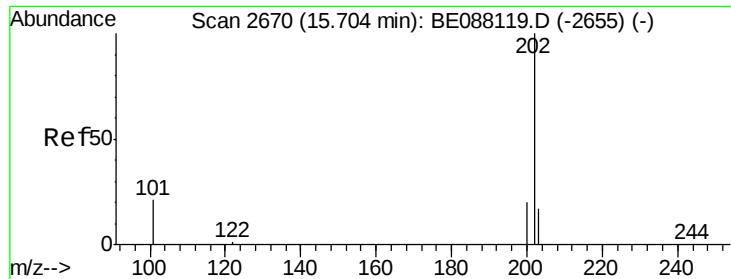
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.39 min Scan# 3161
 Delta R.T. 0.00 min
 Lab File: BE088116.D
 Acq: 20 Oct 2014 20:09

Tgt Ion: 240 Resp: 122418
 Ion Ratio Lower Upper
 240 100
 120 19.1 13.9 20.9
 236 25.0 19.9 29.9



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

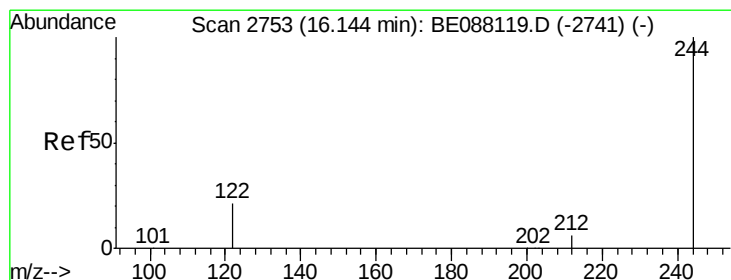
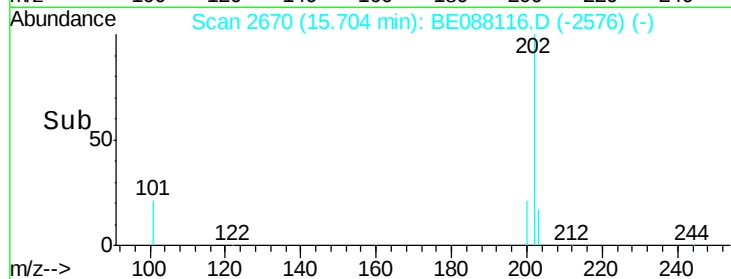
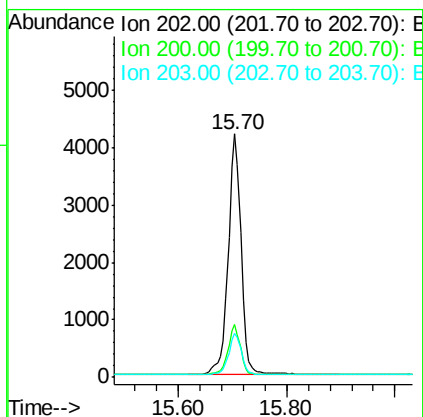
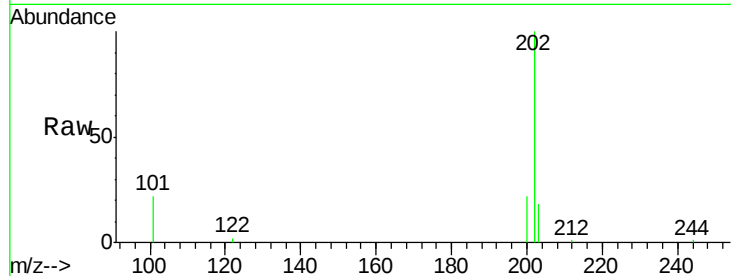




#17
 Pyrene
 Concen: 0.22 ng
 RT: 15.70 min Scan# 2670
 Delta R.T. -0.00 min
 Lab File: BE088116.D
 Acq: 20 Oct 2014 20:09

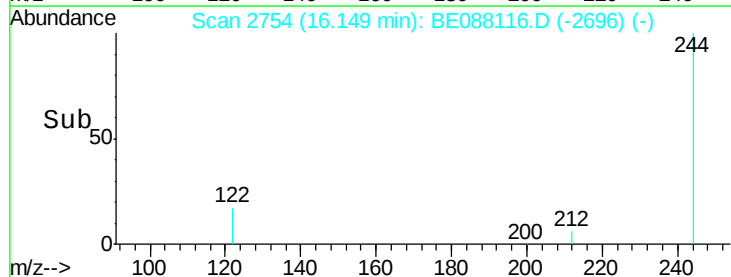
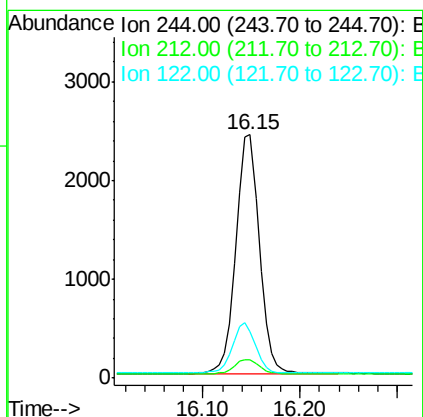
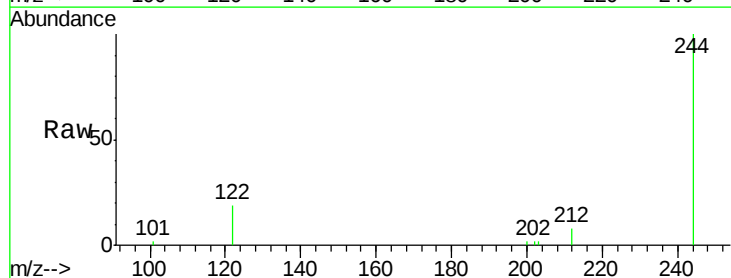
Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.2

Tgt Ion: 202 Resp: 6934
 Ion Ratio Lower Upper
 202 100
 200 20.2 16.1 24.1
 203 17.2 13.9 20.9



#18
 Terphenyl-d14
 Concen: 0.21 ng
 RT: 16.15 min Scan# 2754
 Delta R.T. 0.00 min
 Lab File: BE088116.D
 Acq: 20 Oct 2014 20:09

Tgt Ion: 244 Resp: 3948
 Ion Ratio Lower Upper
 244 100
 212 7.5 5.4 8.0
 122 19.1 17.5 26.3





#19

Benzo(a)anthracene

Concen: 0.24 ng

RT: 18.36 min Scan# 3157

Delta R.T. 0.00 min

Lab File: BE088116.D

Acq: 20 Oct 2014 20:09

Instrument :

BNA_E

ClientSampleId :

SSTDICC0.2

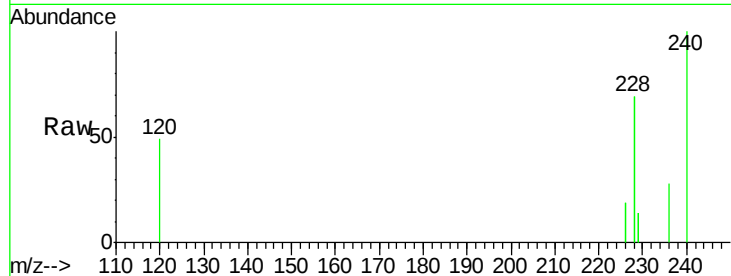
Tgt Ion:228 Resp: 22663

Ion Ratio Lower Upper

228 100

226 27.0 20.8 31.2

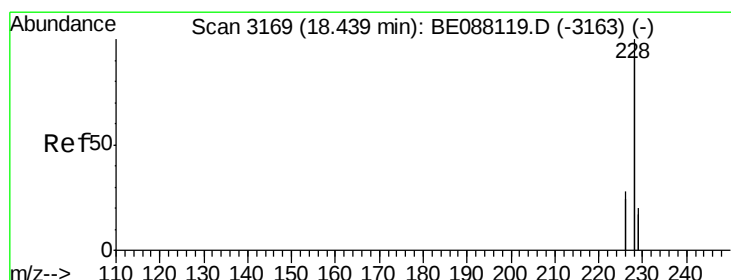
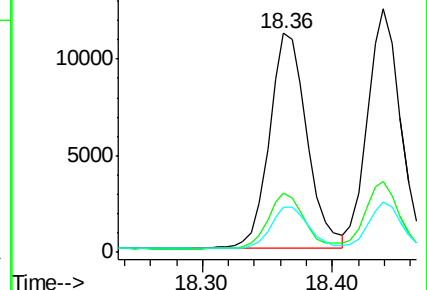
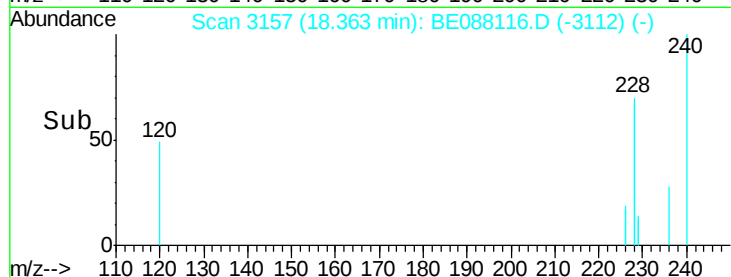
229 20.5 15.6 23.4



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



#20

Chrysene

Concen: 0.19 ng

RT: 18.44 min Scan# 3169

Delta R.T. 0.00 min

Lab File: BE088116.D

Acq: 20 Oct 2014 20:09

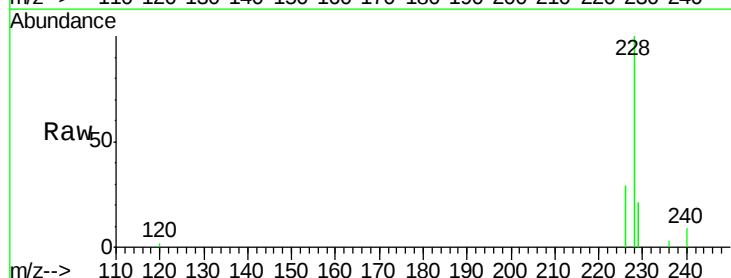
Tgt Ion:228 Resp: 22043

Ion Ratio Lower Upper

228 100

226 29.2 22.7 34.1

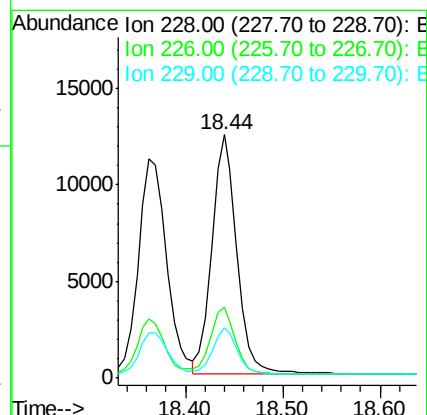
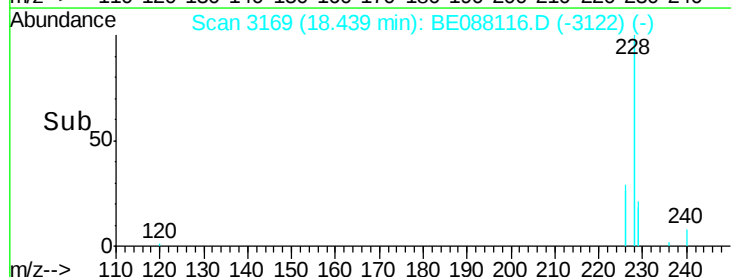
229 20.7 15.8 23.6

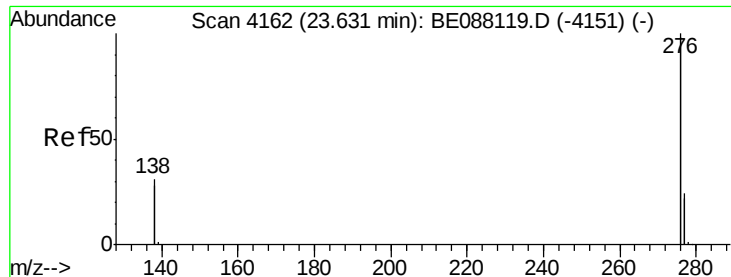


Abundance Ion 228.00 (227.70 to 228.70): E

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: 0.21 ng

RT: 23.63 min Scan# 4162

Delta R.T. -0.00 min

Lab File: BE088116.D

Acq: 20 Oct 2014 20:09

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

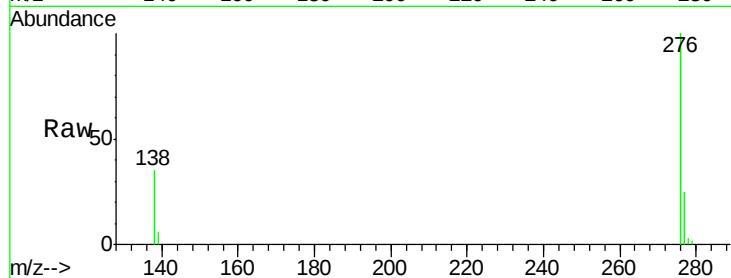
Tgt Ion:276 Resp: 19864

Ion Ratio Lower Upper

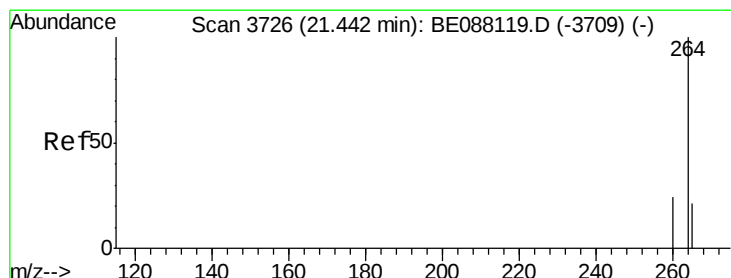
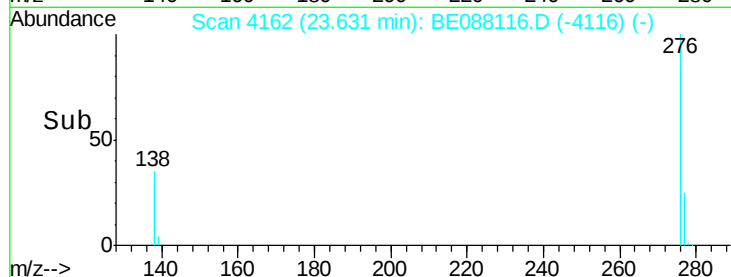
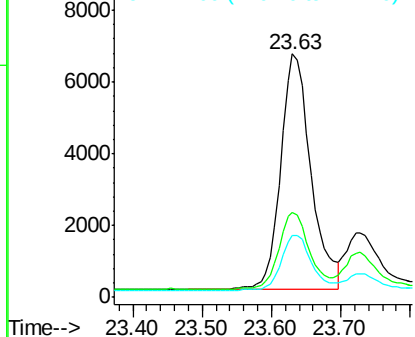
276 100

138 32.3 18.5 27.7#

277 23.2 14.6 21.8#



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: 21.45 min Scan# 3727

Delta R.T. 0.00 min

Lab File: BE088116.D

Acq: 20 Oct 2014 20:09

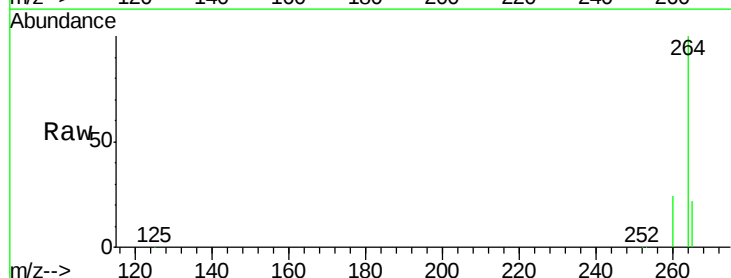
Tgt Ion:264 Resp: 114594

Ion Ratio Lower Upper

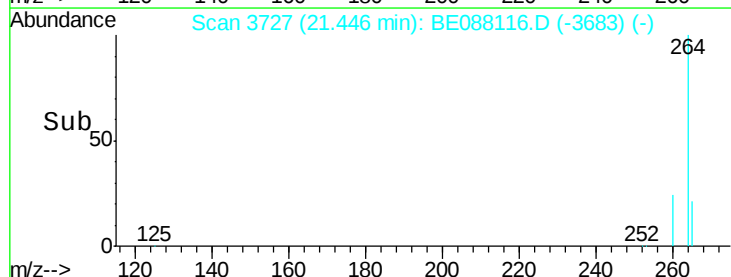
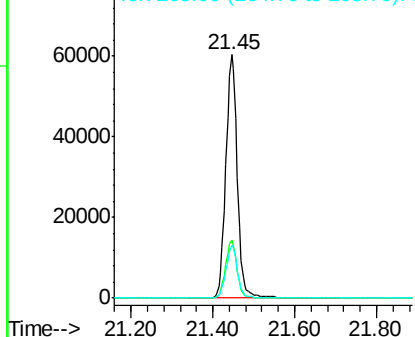
264 100

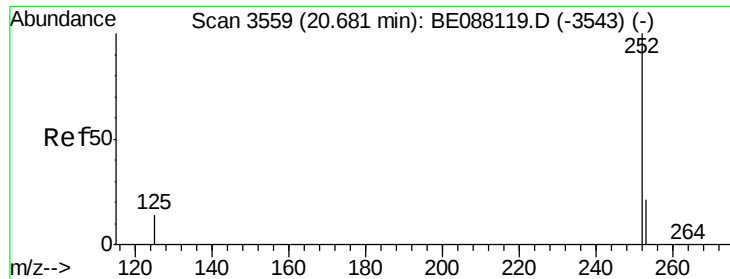
260 23.7 19.0 28.4

265 21.5 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: 0.26 ng

RT: 20.69 min Scan# 3560

Delta R.T. 0.00 min

Lab File: BE088116.D

Acq: 20 Oct 2014 20:09

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

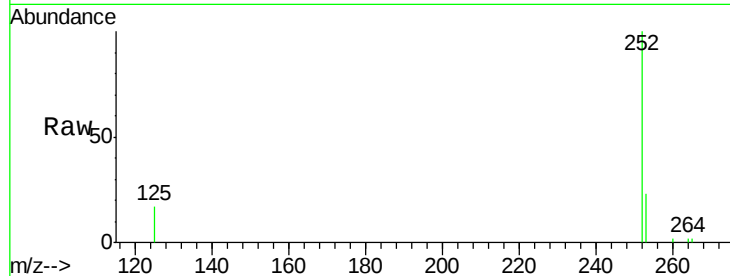
Tgt Ion:252 Resp: 5590

Ion Ratio Lower Upper

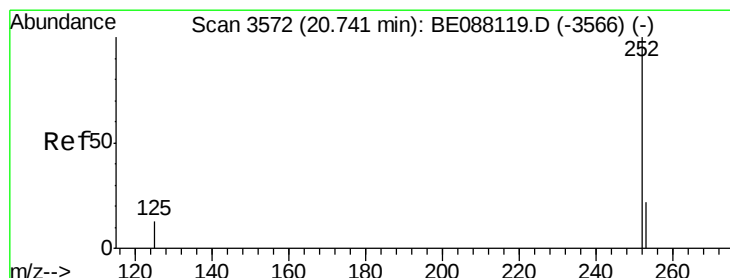
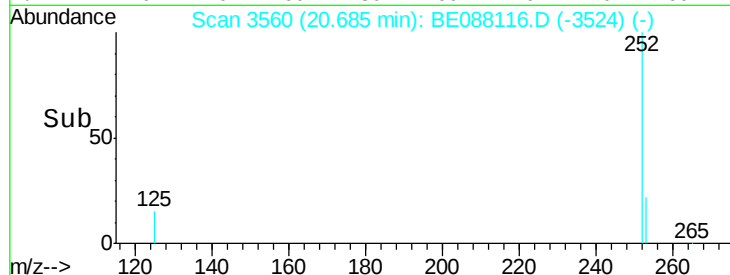
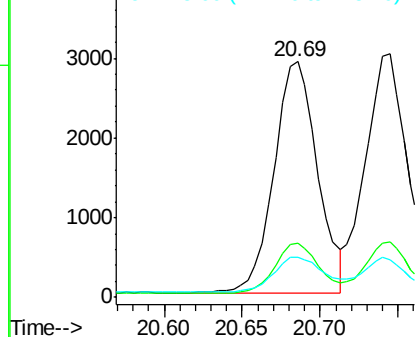
252 100

253 23.1 17.4 26.0

125 17.0 11.8 17.8



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: 0.20 ng

RT: 20.74 min Scan# 3573

Delta R.T. 0.00 min

Lab File: BE088116.D

Acq: 20 Oct 2014 20:09

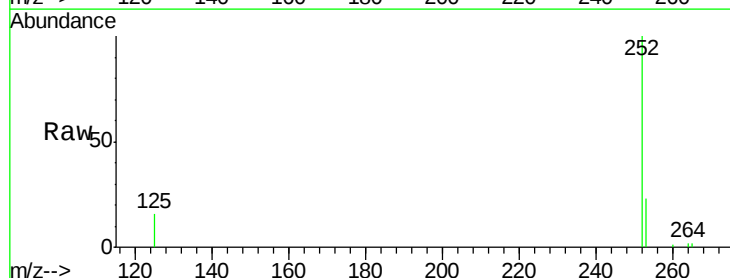
Tgt Ion:252 Resp: 6061

Ion Ratio Lower Upper

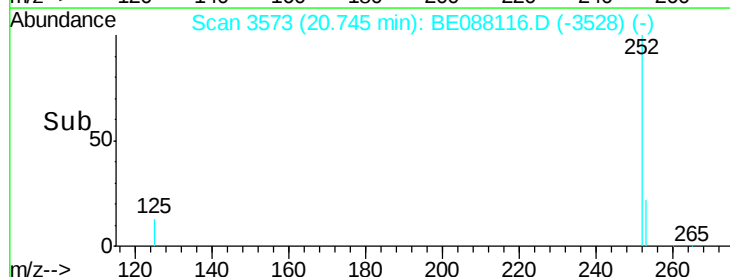
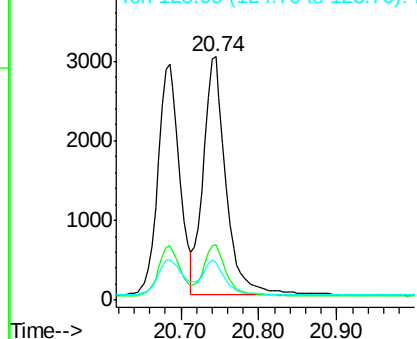
252 100

253 23.0 17.6 26.4

125 15.6 11.5 17.3



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





#25

Benzo(a)pyrene

Concen: 0.27 ng

RT: 21.32 min Scan# 3700

Delta R.T. -0.00 min

Lab File: BE088116.D

Acq: 20 Oct 2014 20:09

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2

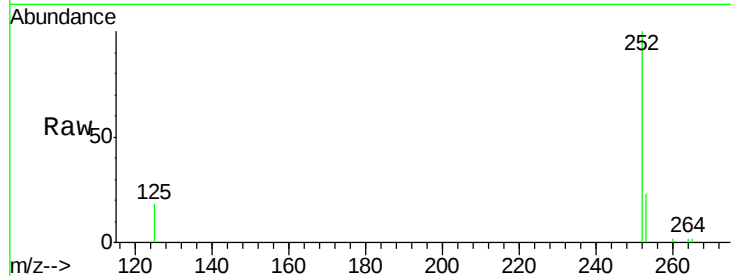
Tgt Ion:252 Resp: 4990

Ion Ratio Lower Upper

252 100

253 23.1 17.5 26.3

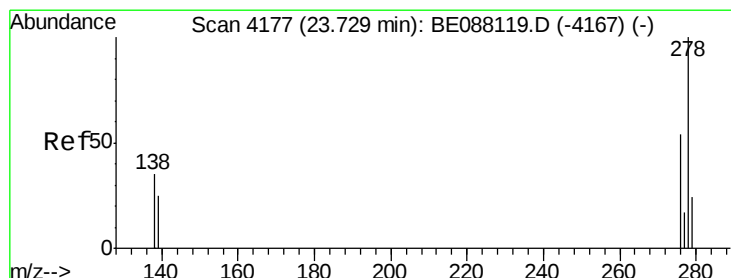
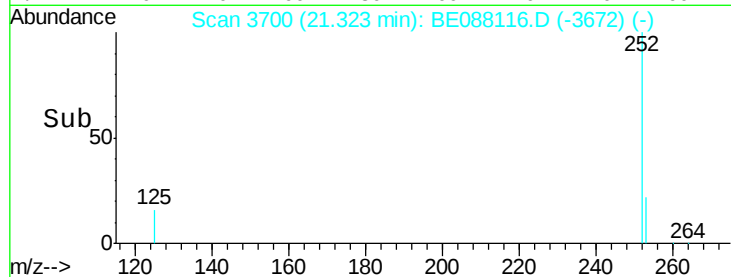
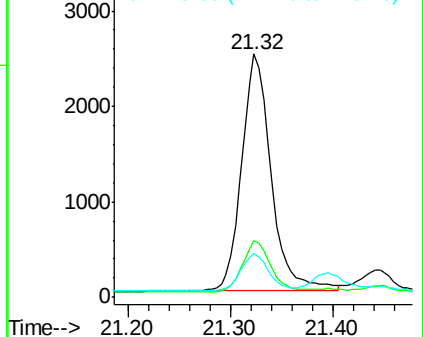
125 18.0 13.0 19.6



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: 0.25 ng

RT: 23.73 min Scan# 4177

Delta R.T. -0.00 min

Lab File: BE088116.D

Acq: 20 Oct 2014 20:09

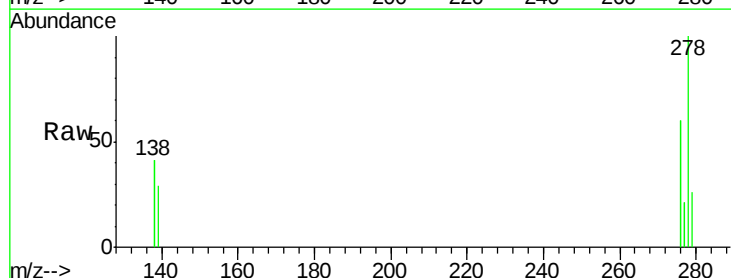
Tgt Ion:278 Resp: 4944

Ion Ratio Lower Upper

278 100

139 28.6 20.9 31.3

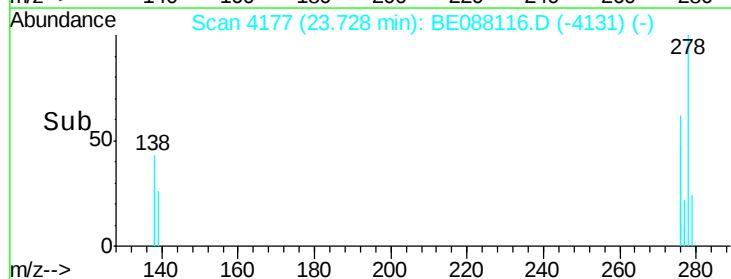
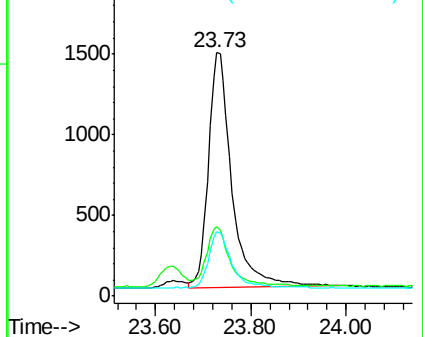
279 26.3 19.8 29.8

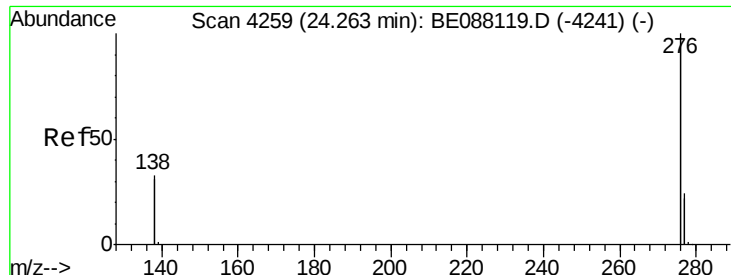


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.24 ng

RT: 24.26 min Scan# 4259

Delta R.T. -0.00 min

Lab File: BE088116.D

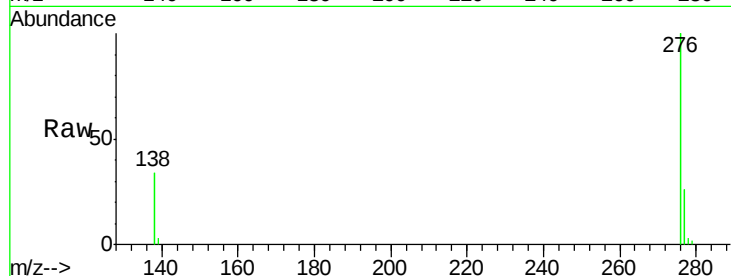
Acq: 20 Oct 2014 20:09

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2



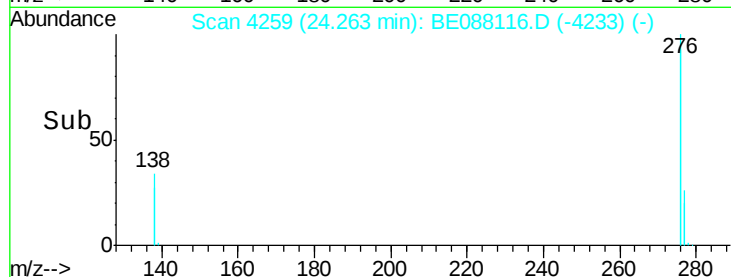
Tgt Ion: 276 Resp: 22417

Ion Ratio Lower Upper

276 100

277 25.5 19.2 28.8

138 34.2 26.6 40.0



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

