

Data Path : Z:\HPCHEM1\BNA E\DATA\BE020216\
 Data File : BE091376.D
 Acq On : 2 Feb 2016 14:11
 Operator : UM/IZ
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.1

Quant Time: Feb 02 17:52:59 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE020216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 02 17:27:22 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	39842	5.00	ng	0.01
4) Naphthalene-d8	9.56	136	184860	5.00	ng	0.01
8) Acenaphthene-d10	13.37	164	114392	5.00	ng	0.02
14) Phenanthrene-d10	16.09	188	300123	5.00	ng	0.00
18) Chrysene-d12	20.21	240	300487	5.00	ng	0.00
24) Perylene-d12	22.10	264	274736	5.00	ng	0.00

System Monitoring Compounds						
2) 2-Fluorophenol	5.11	112	571m	0.13	ng	0.16
3) Phenol-d6	6.70	99	865m	0.13	ng	0.13
5) Nitrobenzene-d5	8.27	82	572m	0.05	ng	0.10
9) 2,4,6-Tribromophenol	14.93	330	195	0.08	ng	0.03
10) 2-Fluorobiphenyl	12.05	172	2671	0.11	ng	0.04
20) Terphenyl-d14	18.64	244	3508	0.12	ng	0.02

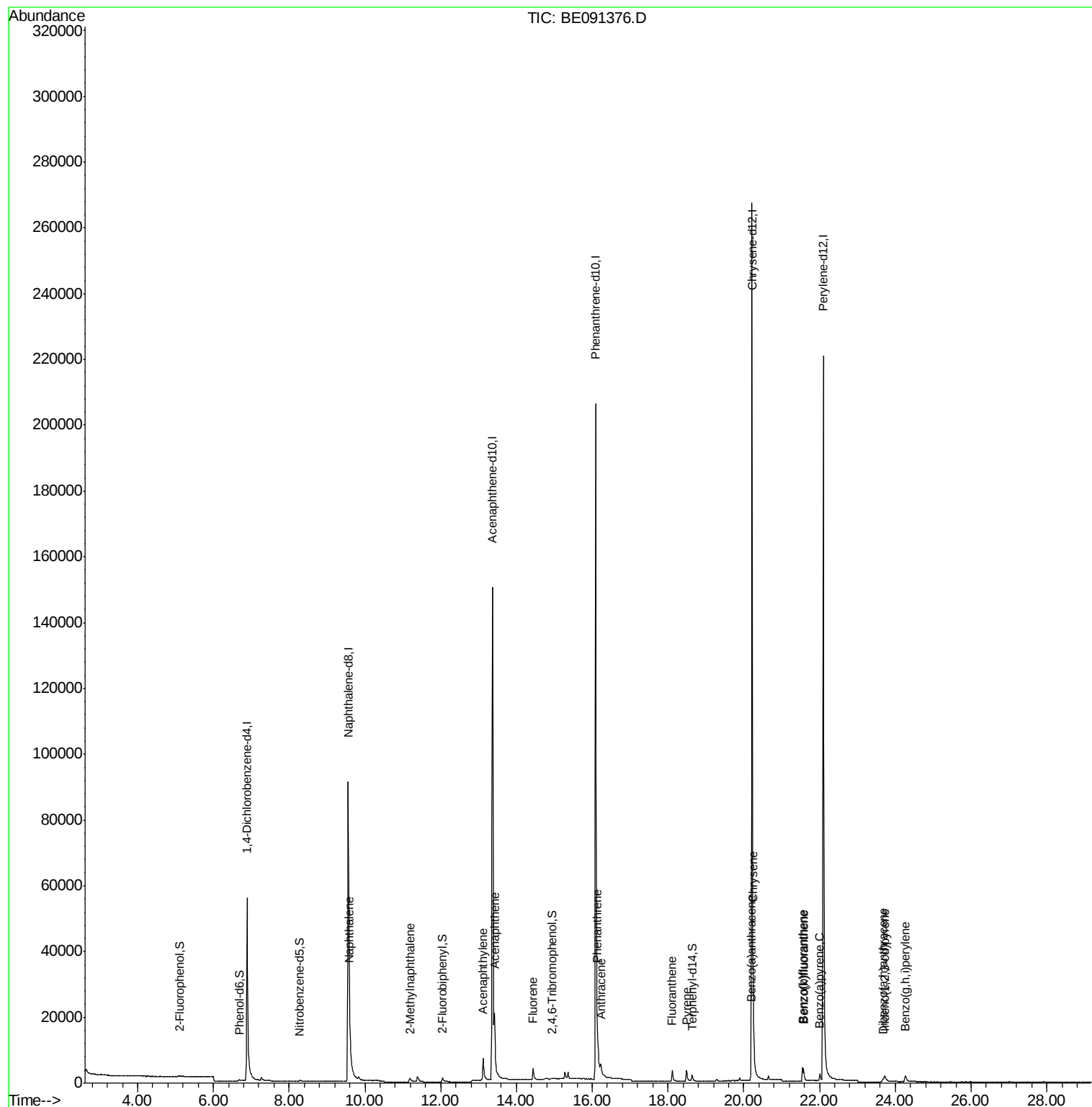
Target Compounds						Qvalue
6) Naphthalene	9.61	128	4309	0.11	ng	# 93
7) 2-Methylnaphthalene	11.19	142	1810	0.12	ng	98
11) Acenaphthylene	13.13	152	13035	0.09	ng	99
12) Acenaphthene	13.42	154	3287	0.10	ng	# 72
13) Fluorene	14.44	166	3651	0.10	ng	98
15) Phenanthrene	16.13	178	7943	0.11	ng	97
16) Anthracene	16.22	178	5380	0.10	ng	98
17) Fluoranthene	18.11	202	5520	0.10	ng	99
19) Pyrene	18.49	202	5356	0.12	ng	99
21) Benzo(a)anthracene	20.19	228	4528	0.11	ng	99
22) Chrysene	20.25	228	9175	0.13	ng	98
23) Indeno(1,2,3-cd)pyrene	23.72	276	3624m	0.08	ng	
25) Benzo(b)fluoranthene	21.55	252	4226	0.09	ng	94
26) Benzo(k)fluoranthene	21.58	252	5088	0.09	ng	95
27) Benzo(a)pyrene	22.01	252	3534	0.08	ng	# 91
28) Dibenzo(a,h)anthracene	23.68	278	2306	0.07	ng	# 87
29) Benzo(g,h,i)perylene	24.27	276	4192	0.09	ng	95

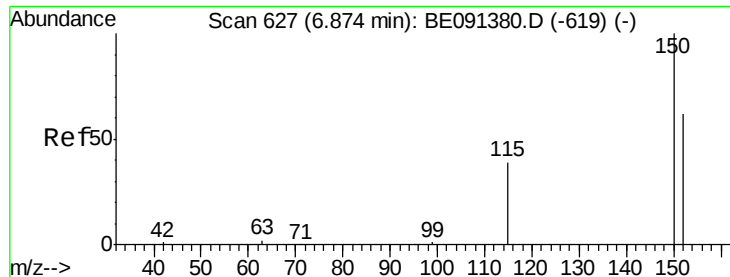
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.89 min Scan# 628

Delta R.T. 0.01 min

Lab File: BE091376.D

Acq: 2 Feb 2016 14:11

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.1

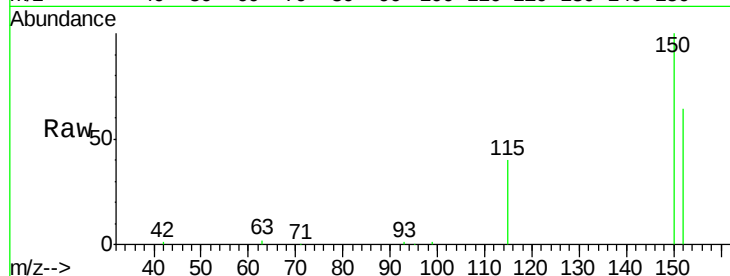
Tot Ion:152 Resp: 39842

Ion Ratio Lower Upper

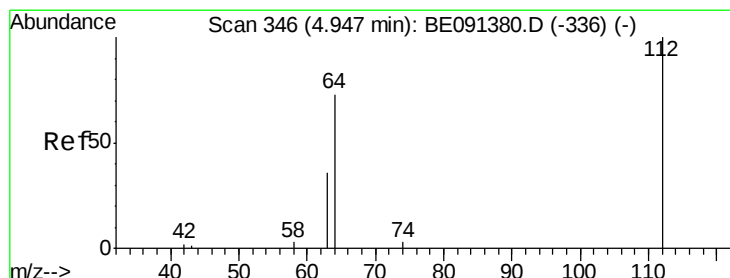
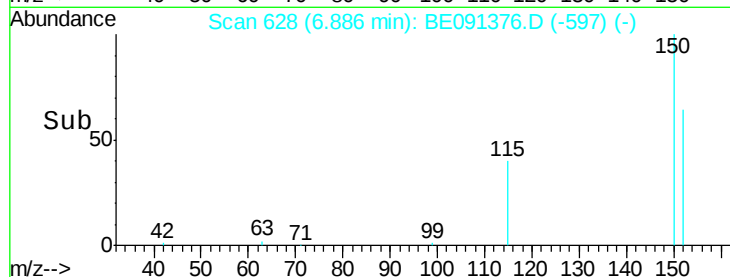
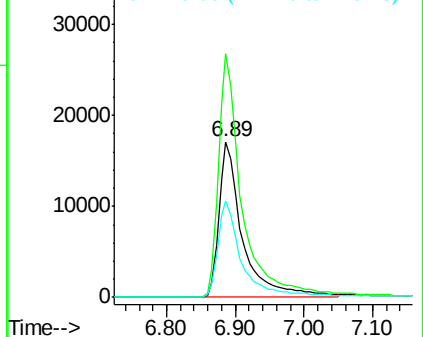
152 100

150 156.6 121.6 182.4

115 62.3 50.6 75.8



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

2-Fluorophenol

Concen: 0.13 ng m

RT: 5.11 min Scan# 369

Delta R.T. 0.16 min

Lab File: BE091376.D

Acq: 2 Feb 2016 14:11

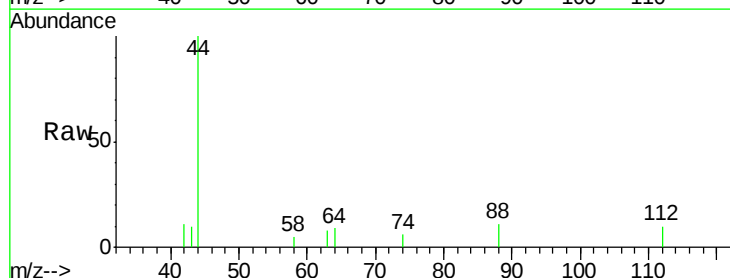
Tgt Ion:112 Resp: 571

Ion Ratio Lower Upper

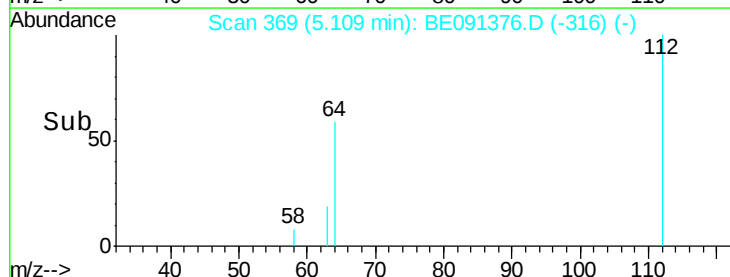
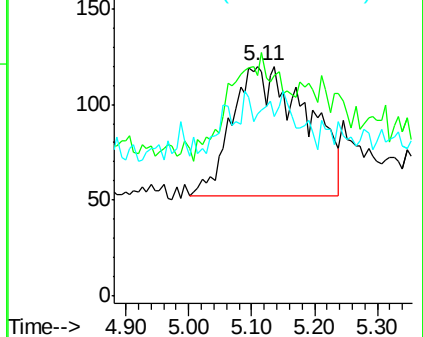
112 100

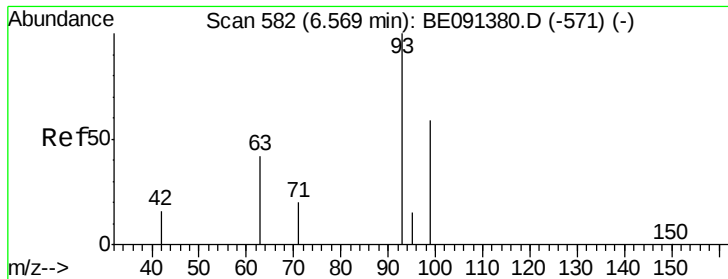
64 0.0 57.4 86.0#

63 1.8 32.2 48.2#



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE0
Ion 63.00 (62.70 to 63.70): BE0





#3

Phenol-d6

Concen: 0.13 ng/ml

RT: 6.70 min Scan# 601

Delta R.T. 0.13 min

Lab File: BE091376.D

Acq: 2 Feb 2016 14:11

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.1

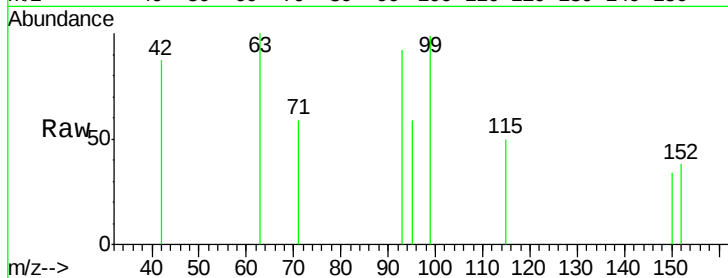
Tot Ion: 99 Resp: 865

Ion Ratio Lower Upper

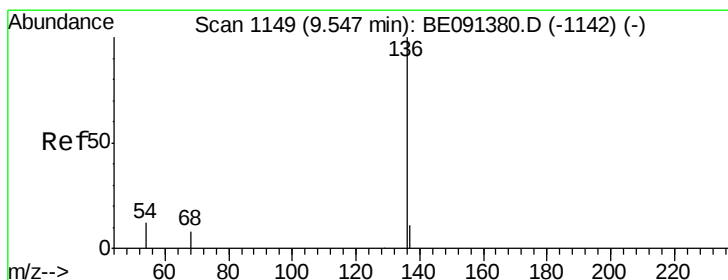
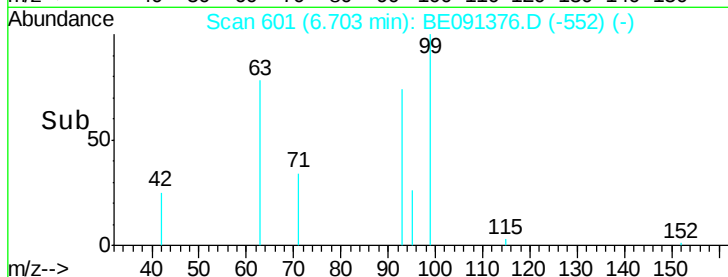
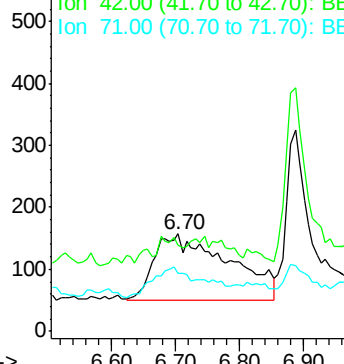
99 100

42 0.0 22.9 34.3#

71 26.2 35.4 53.2#



Abundance Ion 99.00 (98.70 to 99.70): BE0
Ion 42.00 (41.70 to 42.70): BE0
Ion 71.00 (70.70 to 71.70): BE0



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.56 min Scan# 1150

Delta R.T. 0.01 min

Lab File: BE091376.D

Acq: 2 Feb 2016 14:11

Tgt Ion: 136 Resp: 184860

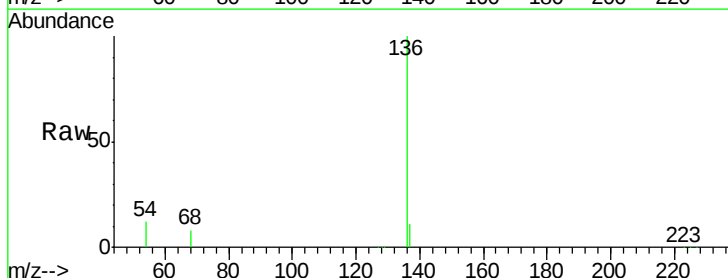
Ion Ratio Lower Upper

136 100

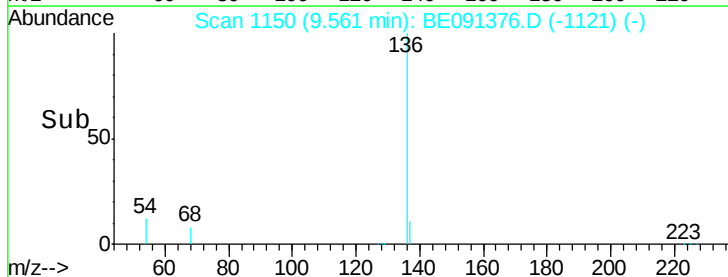
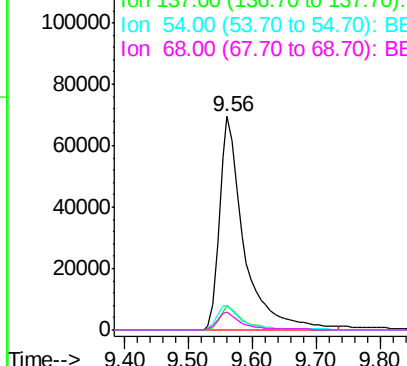
137 11.2 8.7 13.1

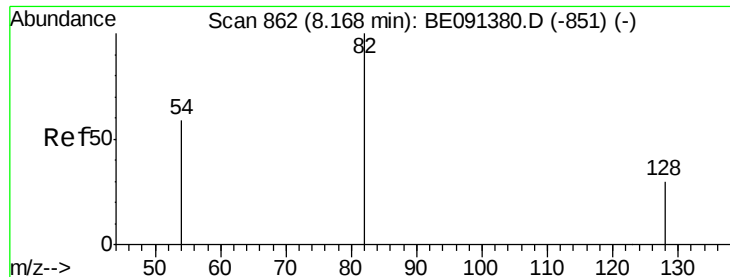
54 11.7 9.8 14.6

68 8.4 6.6 10.0



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
Ion 68.00 (67.70 to 68.70): BE0





#5

Nitrobenzene-d5

Concen: 0.05 ng m

RT: 8.27 min Scan# 885

Delta R.T. 0.10 min

Lab File: BE091376.D

Acq: 2 Feb 2016 14:11

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.1

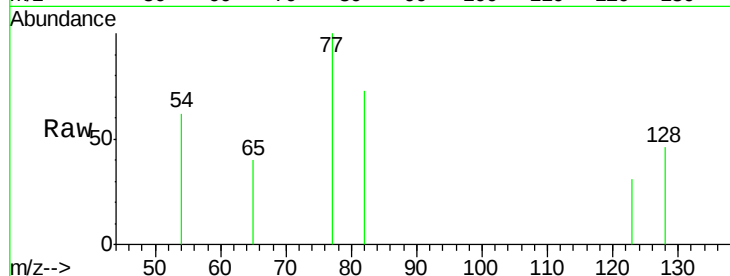
Tot Ion: 82 Resp: 572

Ion Ratio Lower Upper

82 100

128 63.2 24.6 36.8#

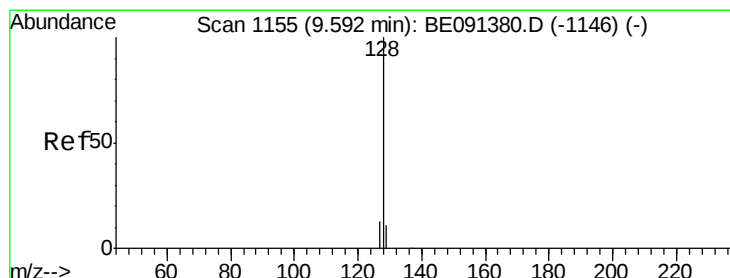
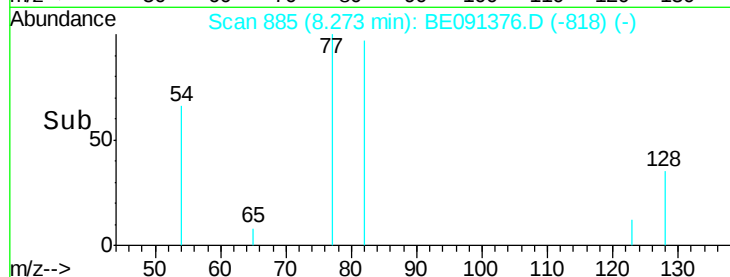
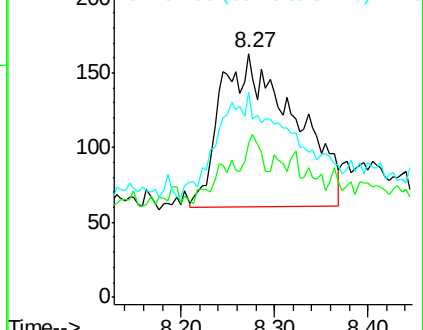
54 84.0 52.7 79.1#



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



#6

Naphthalene

Concen: 0.11 ng

RT: 9.61 min Scan# 1156

Delta R.T. 0.01 min

Lab File: BE091376.D

Acq: 2 Feb 2016 14:11

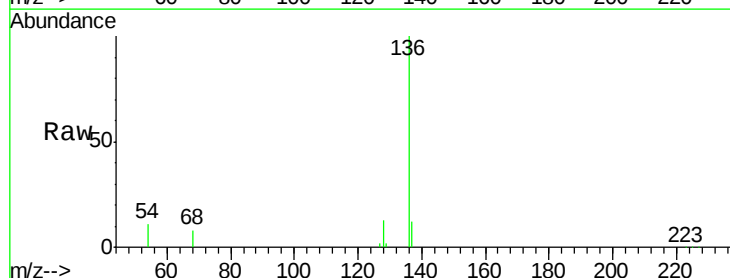
Tgt Ion: 128 Resp: 4309

Ion Ratio Lower Upper

128 100

129 15.4 9.3 13.9#

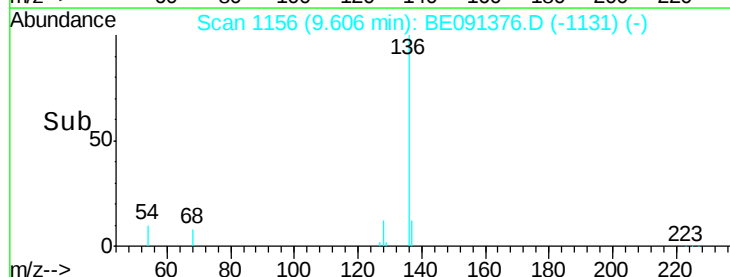
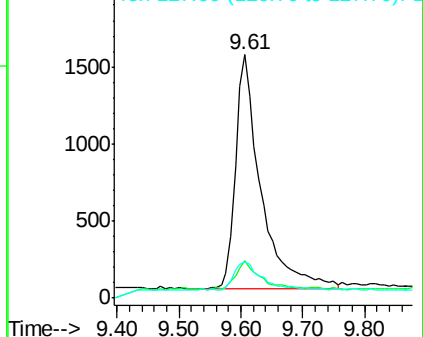
127 15.1 10.6 15.8

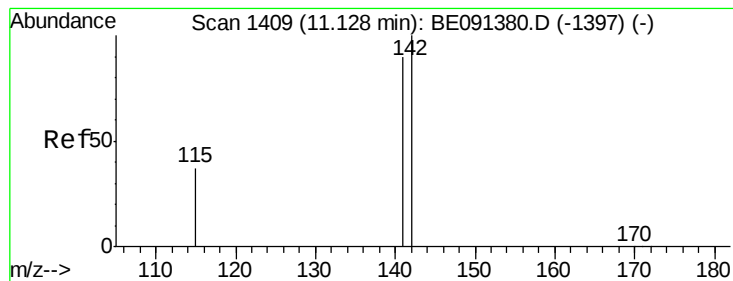


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 0.12 ng

RT: 11.19 min Scan# 1423

Delta R.T. 0.06 min

Lab File: BE091376.D

Acq: 2 Feb 2016 14:11

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.1

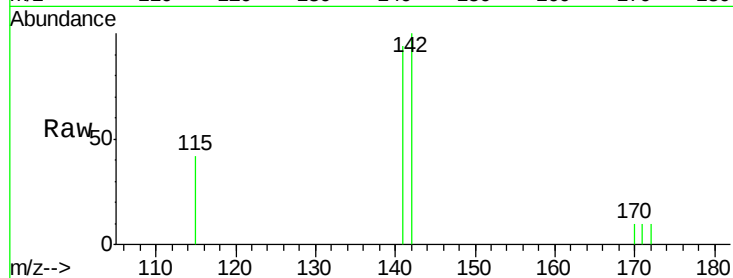
Tot Ion:142 Resp: 1810

Ion Ratio Lower Upper

142 100

141 94.5 74.5 111.7

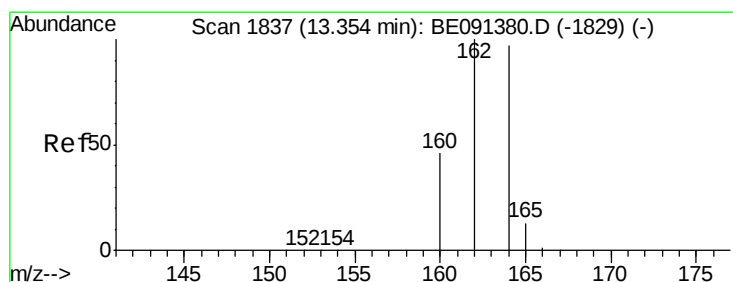
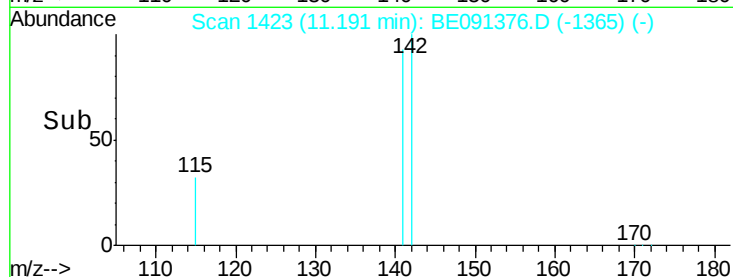
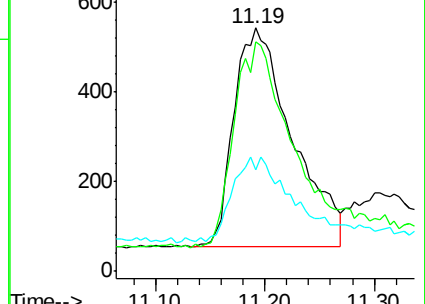
115 42.0 35.2 52.8



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



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 13.37 min Scan# 1838

Delta R.T. 0.02 min

Lab File: BE091376.D

Acq: 2 Feb 2016 14:11

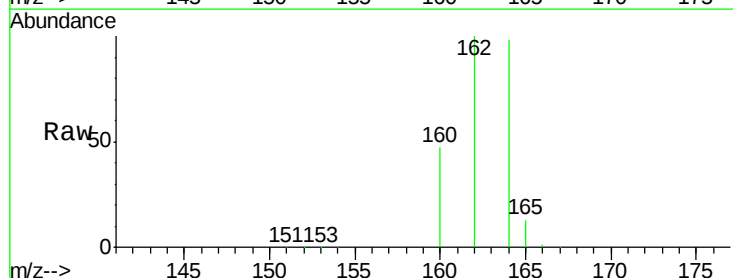
Tgt Ion:164 Resp: 114392

Ion Ratio Lower Upper

164 100

162 102.1 88.5 132.7

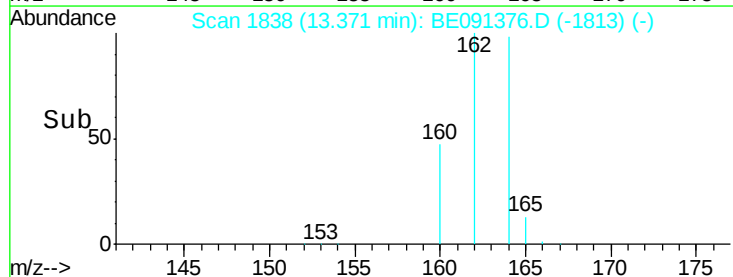
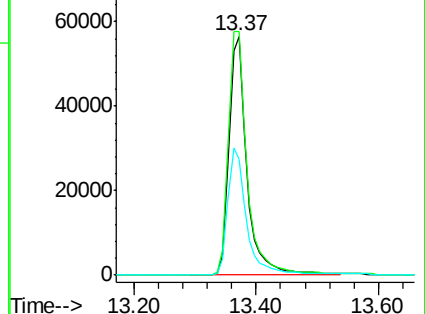
160 48.3 76.7 115.1#



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





#9

2,4,6-Tribromophenol

Concen: 0.08 ng

RT: 14.93 min Scan# 2005

Delta R.T. 0.03 min

Lab File: BE091376.D

Acq: 2 Feb 2016 14:11

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.1

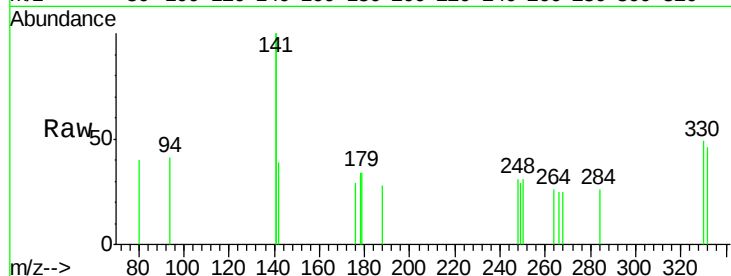
Tot Ion:330 Resp: 195

Ion Ratio Lower Upper

330 100

332 94.9 78.6 118.0

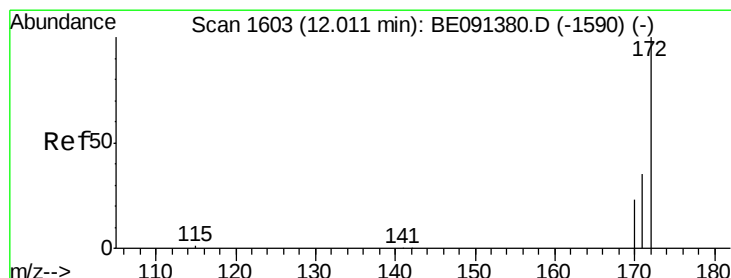
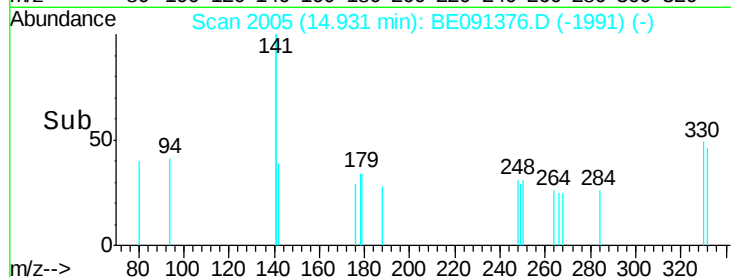
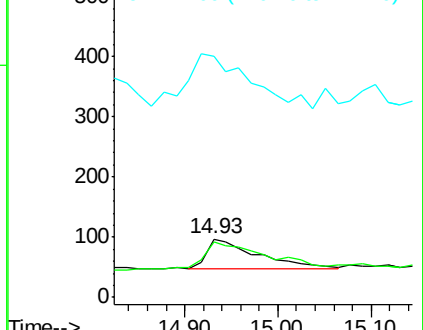
141 0.0 147.8 221.8#



Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#10

2-Fluorobiphenyl

Concen: 0.11 ng

RT: 12.05 min Scan# 1611

Delta R.T. 0.04 min

Lab File: BE091376.D

Acq: 2 Feb 2016 14:11

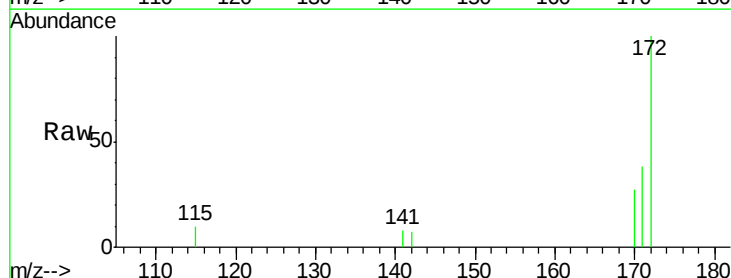
Tgt Ion:172 Resp: 2671

Ion Ratio Lower Upper

172 100

171 38.2 27.3 40.9

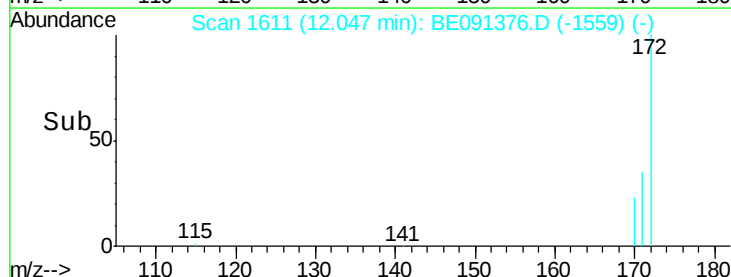
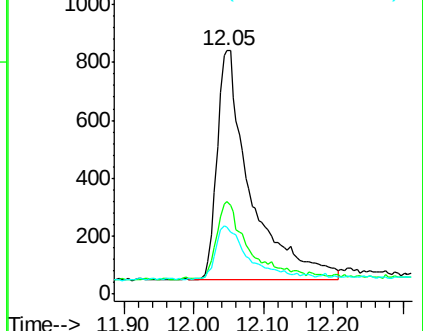
170 27.5 19.8 29.6

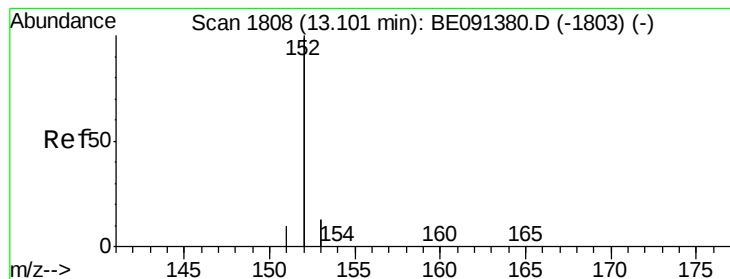


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#11

Acenaphthylene

Concen: 0.09 ng

RT: 13.13 min Scan# 1810

Delta R.T. 0.03 min

Lab File: BE091376.D

Acq: 2 Feb 2016 14:11

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.1

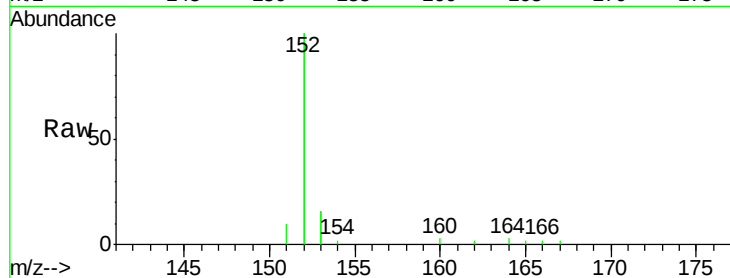
Tot Ion:152 Resp: 13035

Ion Ratio Lower Upper

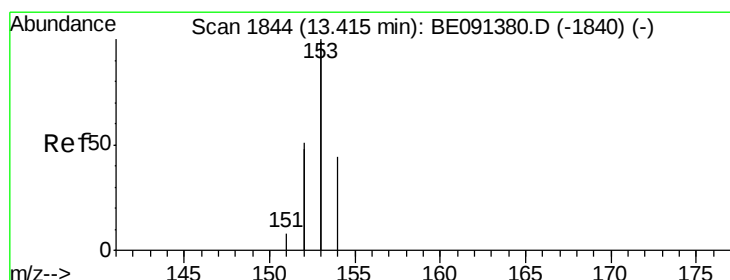
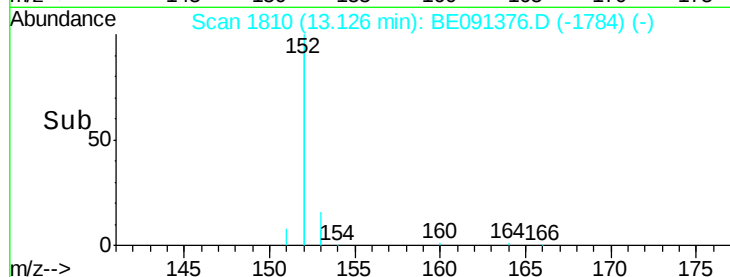
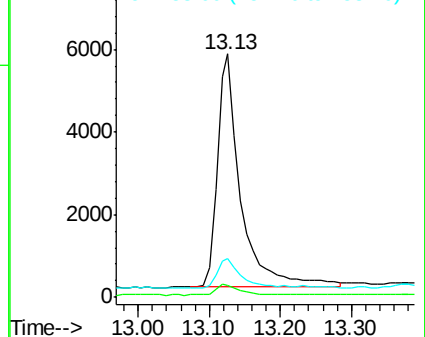
152 100

151 5.0 3.8 5.8

153 13.2 10.1 15.1



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



#12

Acenaphthene

Concen: 0.10 ng

RT: 13.42 min Scan# 1844

Delta R.T. 0.01 min

Lab File: BE091376.D

Acq: 2 Feb 2016 14:11

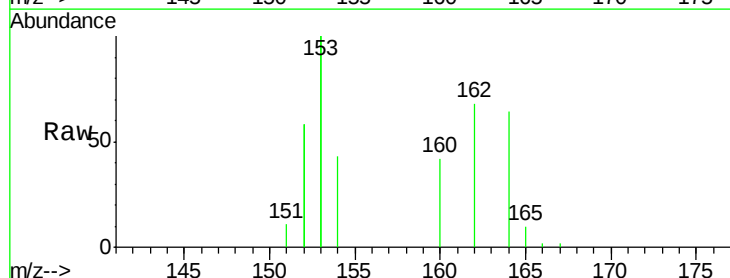
Tgt Ion:154 Resp: 3287

Ion Ratio Lower Upper

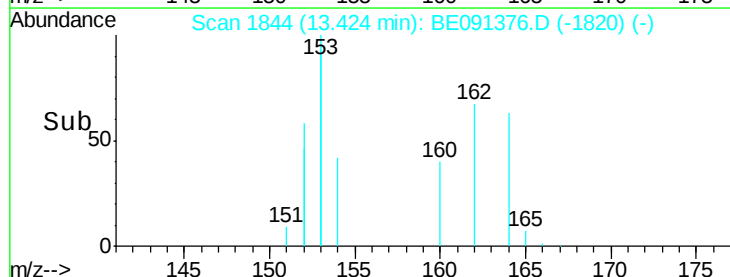
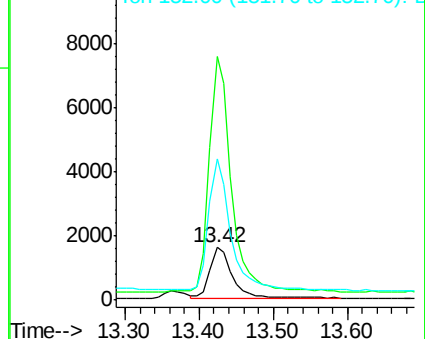
154 100

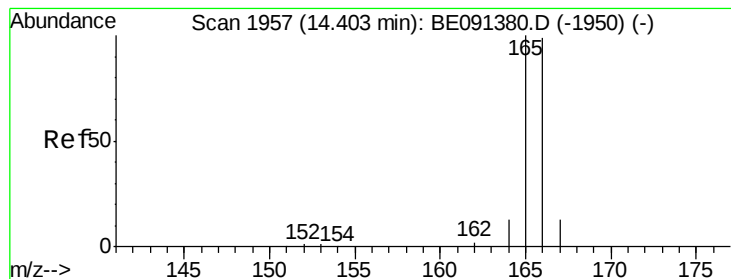
153 464.7 370.2 555.4

152 249.2 310.5 465.7#



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





#13

Fluorene

Concen: 0.10 ng

RT: 14.44 min Scan# 1960

Delta R.T. 0.03 min

Lab File: BE091376.D

Acq: 2 Feb 2016 14:11

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.1

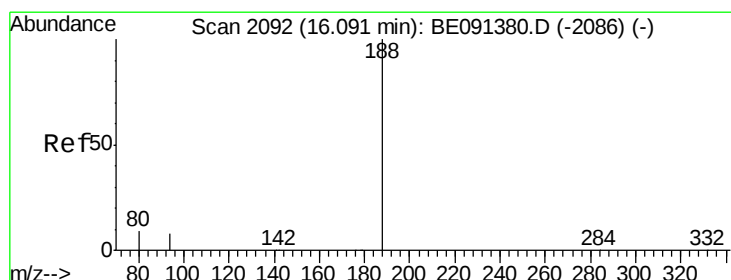
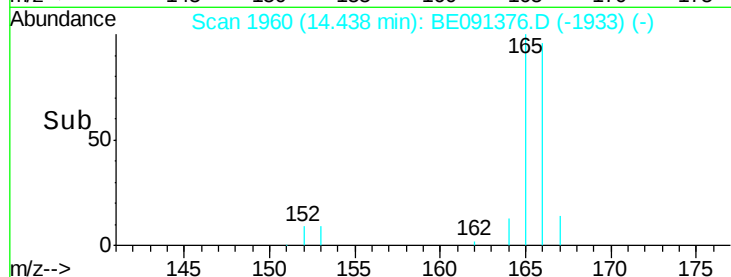
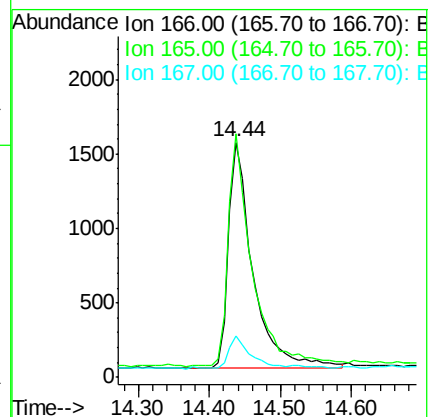
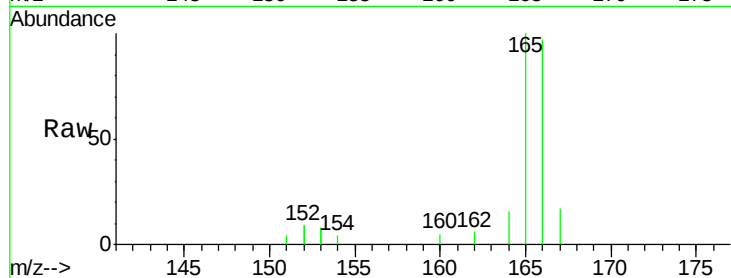
Tot Ion:166 Resp: 3651

Ion Ratio Lower Upper

166 100

165 101.4 83.0 124.6

167 13.8 11.1 16.7



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.09 min Scan# 2092

Delta R.T. 0.00 min

Lab File: BE091376.D

Acq: 2 Feb 2016 14:11

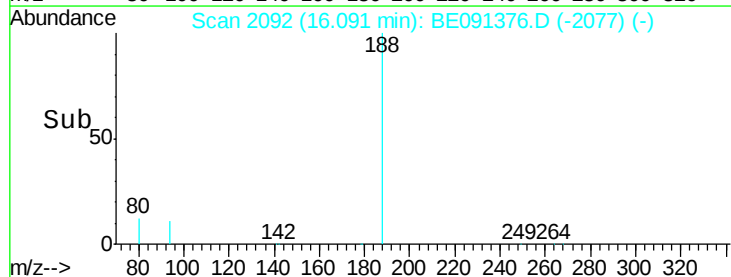
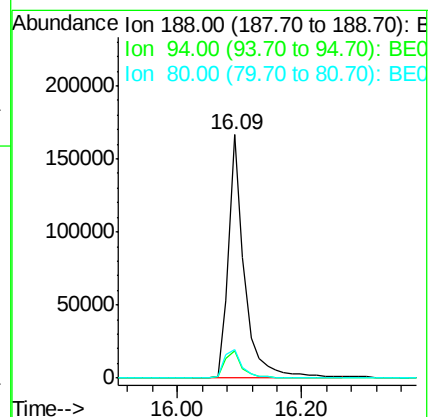
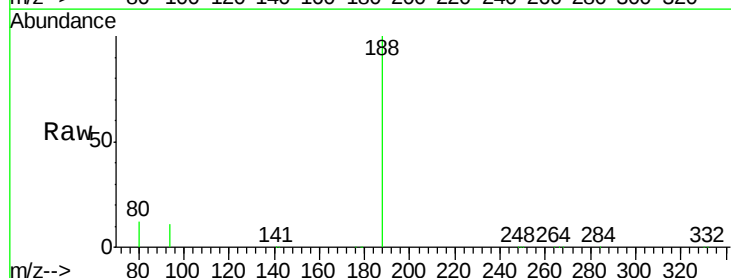
Tgt Ion:188 Resp: 300123

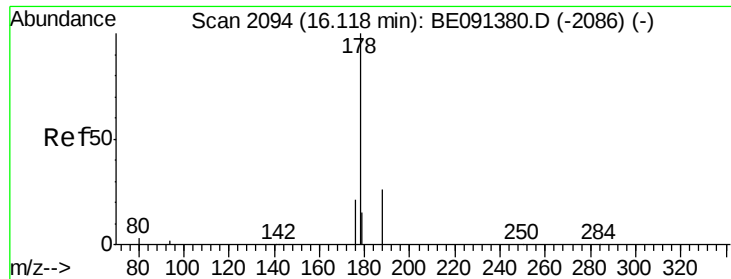
Ion Ratio Lower Upper

188 100

94 11.0 7.5 11.3

80 11.9 8.2 12.2





#15

Phenanthrene

Concen: 0.11 ng

RT: 16.13 min Scan# 2095

Delta R.T. 0.01 min

Lab File: BE091376.D

Acq: 2 Feb 2016 14:11

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.1

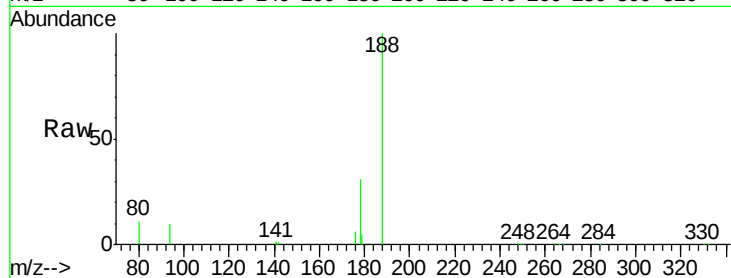
Tot Ion:178 Resp: 7943

Ion Ratio Lower Upper

178 100

176 19.5 15.4 23.2

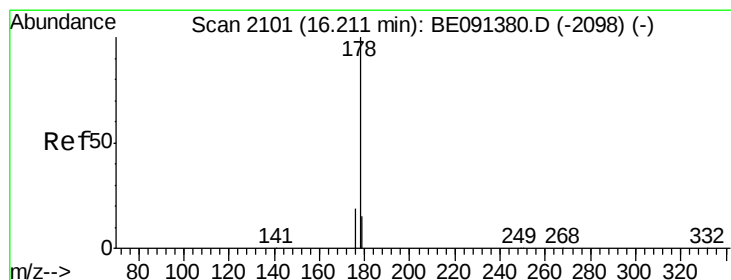
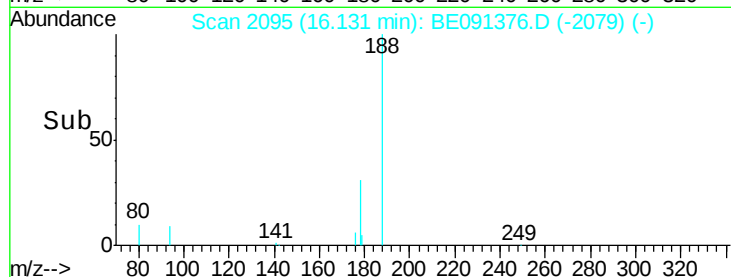
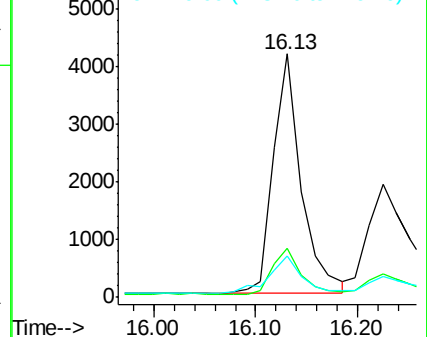
179 18.7 12.8 19.2



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



#16

Anthracene

Concen: 0.10 ng

RT: 16.22 min Scan# 2102

Delta R.T. 0.01 min

Lab File: BE091376.D

Acq: 2 Feb 2016 14:11

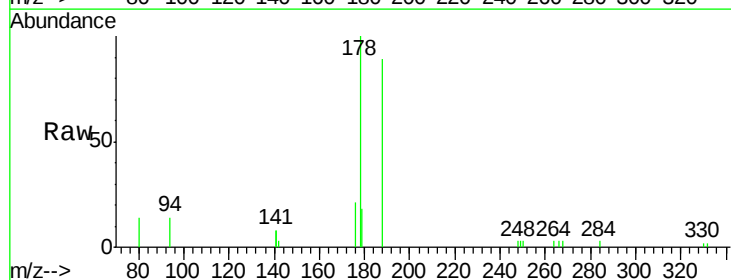
Tgt Ion:178 Resp: 5380

Ion Ratio Lower Upper

178 100

176 20.1 15.0 22.6

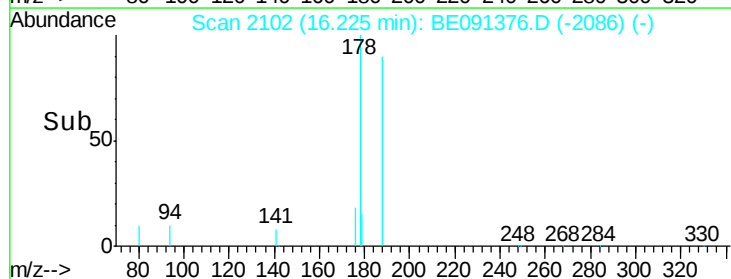
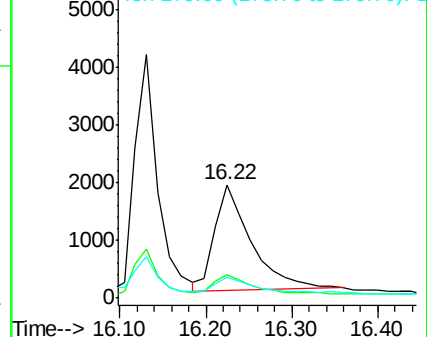
179 15.6 12.4 18.6

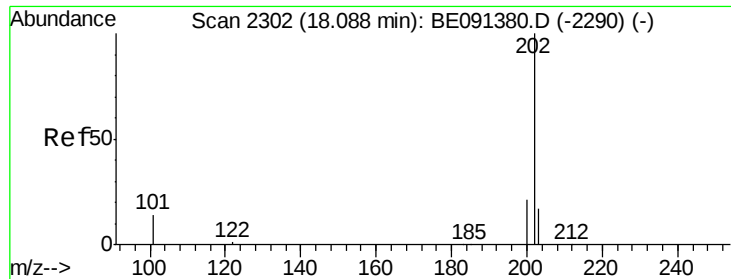


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

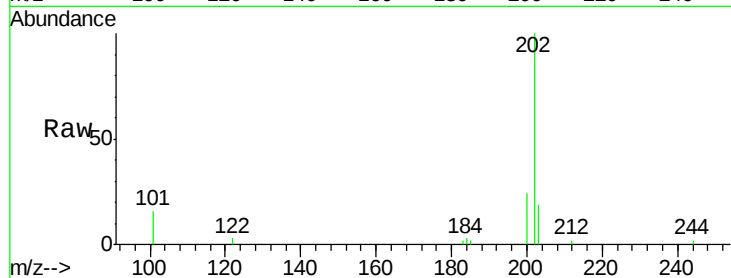




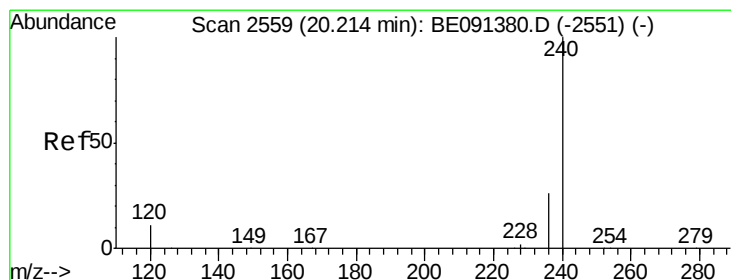
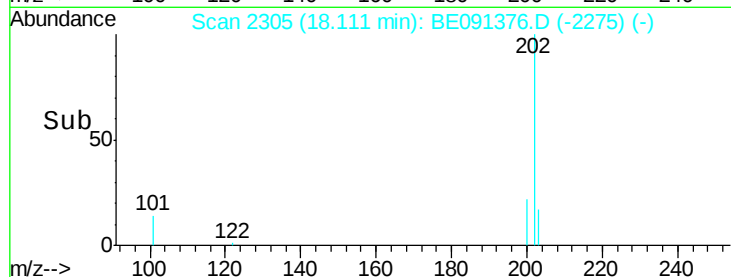
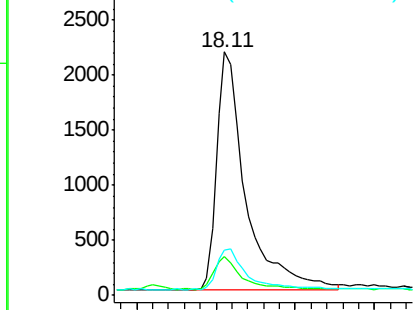
#17
Fluoranthene
 Concen: 0.10 ng
 RT: 18.11 min Scan# 2305
 Delta R.T. 0.02 min
 Lab File: BE091376.D
 Acq: 2 Feb 2016 14:11

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.1

Tot Ion:202 Resp: 5520
 Ion Ratio Lower Upper
 202 100
 101 13.2 11.0 16.4
 203 17.2 13.9 20.9

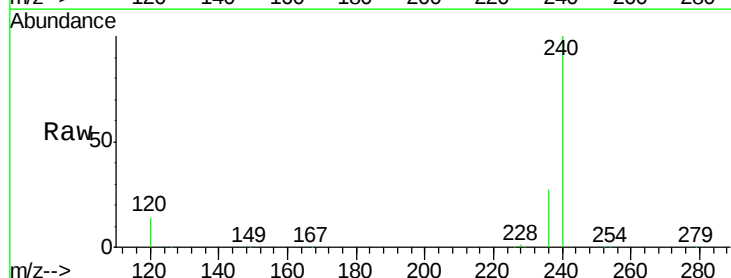


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

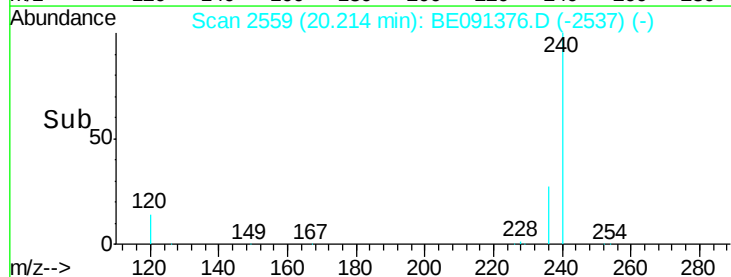
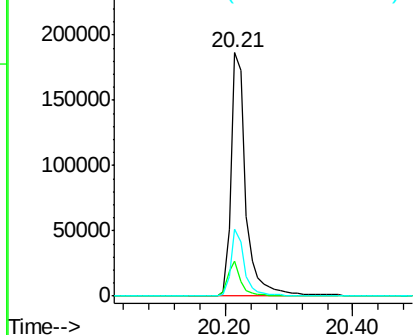


#18
Chrysene-d12
 Concen: 5.00 ng
 RT: 20.21 min Scan# 2559
 Delta R.T. 0.00 min
 Lab File: BE091376.D
 Acq: 2 Feb 2016 14:11

Tgt Ion:240 Resp: 300487
 Ion Ratio Lower Upper
 240 100
 120 14.4 12.6 19.0
 236 27.4 22.7 34.1



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





#19

Pvrene

Concen: 0.12 ng

RT: 18.49 min Scan# 2355

Delta R.T. 0.02 min

Lab File: BE091376.D

Acq: 2 Feb 2016 14:11

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.1

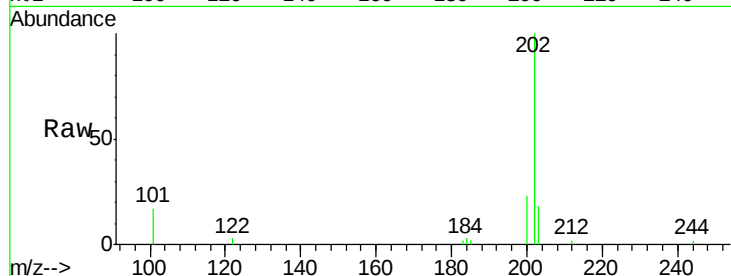
Tot Ion:202 Resp: 5356

Ion Ratio Lower Upper

202 100

200 21.4 17.2 25.8

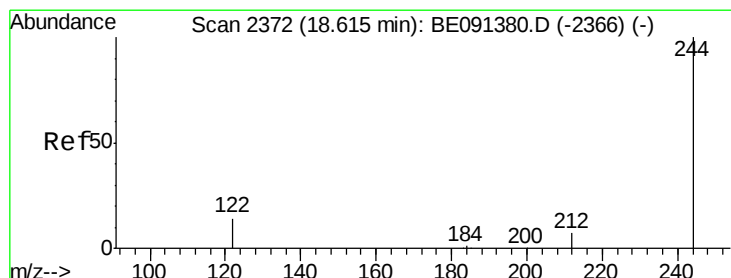
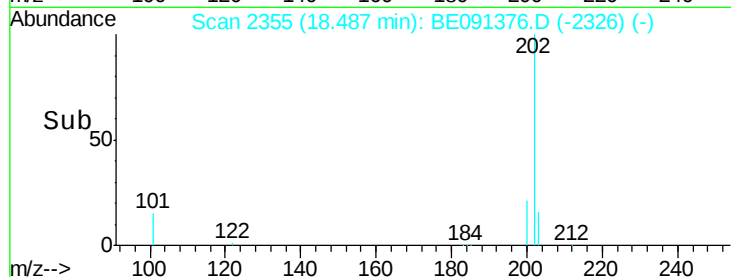
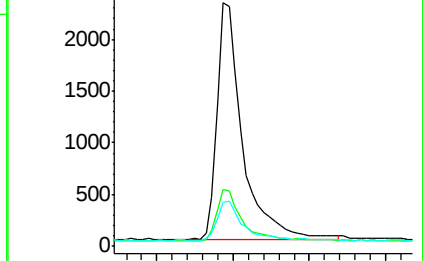
203 16.9 14.2 21.4



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



#20

Terphenyl-d14

Concen: 0.12 ng

RT: 18.64 min Scan# 2375

Delta R.T. 0.02 min

Lab File: BE091376.D

Acq: 2 Feb 2016 14:11

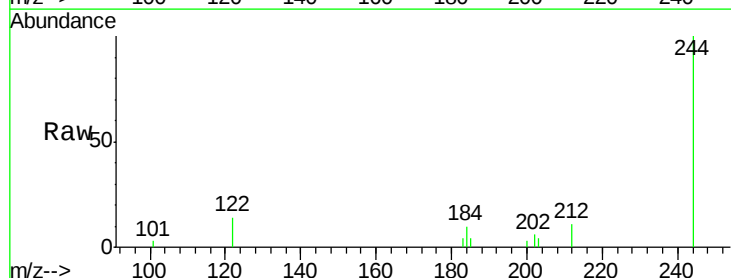
Tgt Ion:244 Resp: 3508

Ion Ratio Lower Upper

244 100

212 11.0 7.0 10.4#

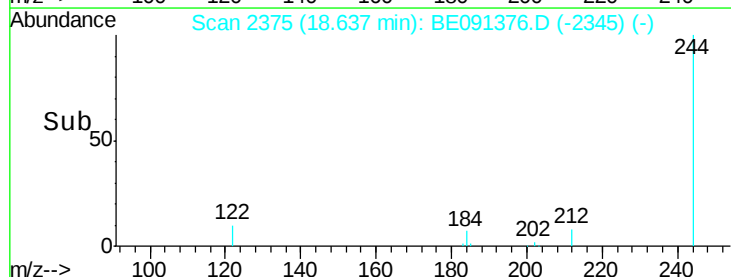
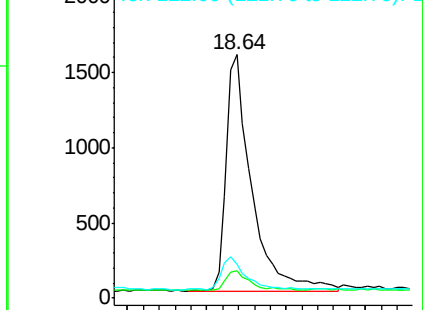
122 13.7 8.5 12.7#

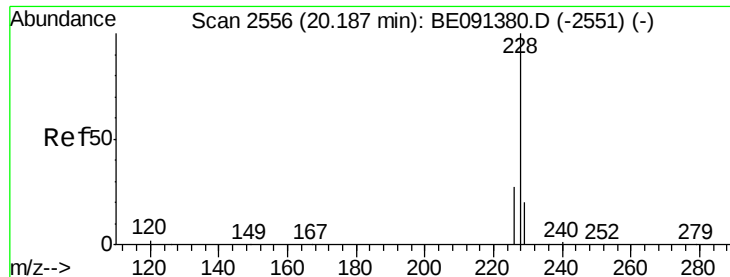


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#21

Benzo(a)anthracene

Concen: 0.11 ng

RT: 20.19 min Scan# 2556

Delta R.T. 0.00 min

Lab File: BE091376.D

Acq: 2 Feb 2016 14:11

Instrument :

BNA_E

ClientSampleId :

SSTDICC0.1

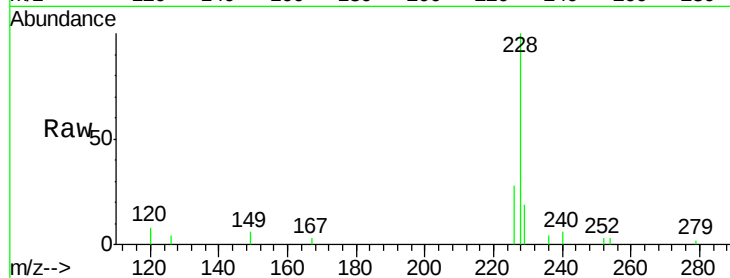
Tot Ion:228 Resp: 4528

Ion Ratio Lower Upper

228 100

226 28.2 22.5 33.7

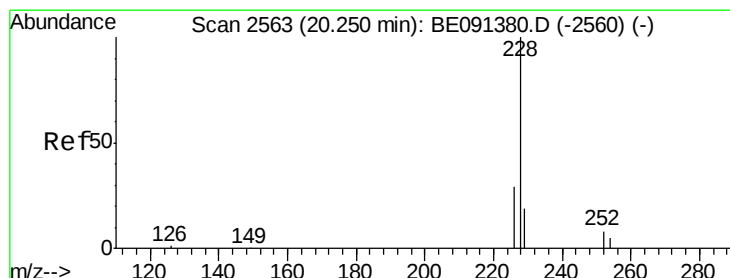
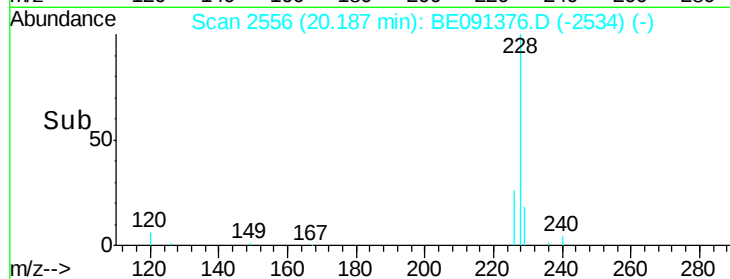
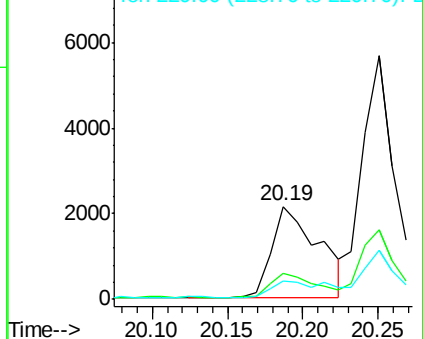
229 19.5 16.2 24.4



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



#22

Chrysene

Concen: 0.13 ng

RT: 20.25 min Scan# 2563

Delta R.T. 0.00 min

Lab File: BE091376.D

Acq: 2 Feb 2016 14:11

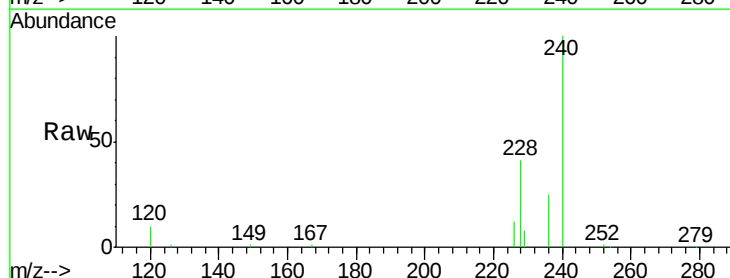
Tgt Ion:228 Resp: 9175

Ion Ratio Lower Upper

228 100

226 28.3 23.7 35.5

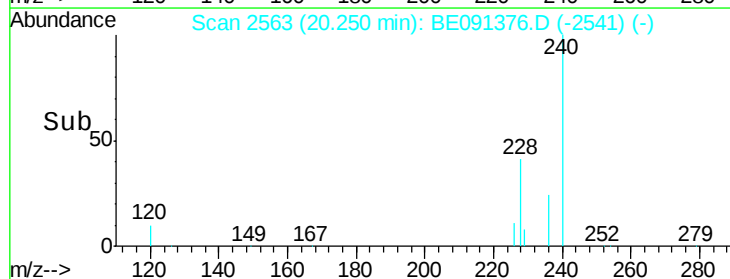
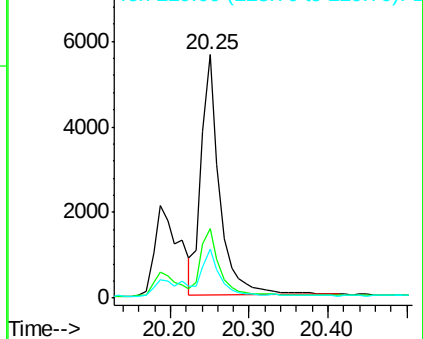
229 20.3 16.0 24.0

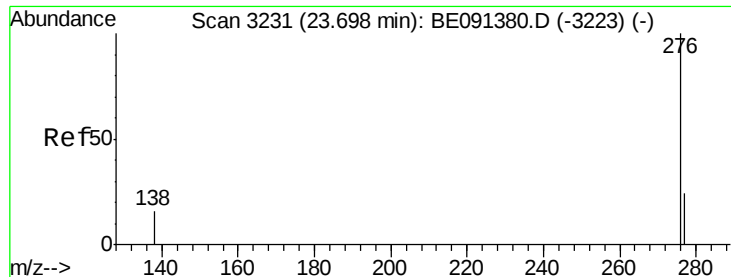


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Indeno(1,2,3-cd)pyrene

Concen: 0.08 ng

RT: 23.72 min Scan# 3236

Delta R.T. 0.02 min

Lab File: BE091376.D

Acq: 2 Feb 2016 14:11

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.1

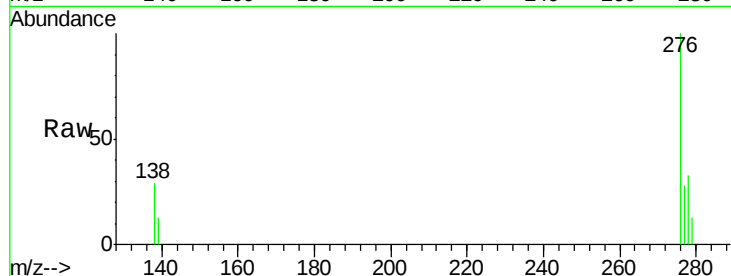
Tot Ion:276 Resp: 3624

Ion Ratio Lower Upper

276 100

138 15.1 18.6 27.8#

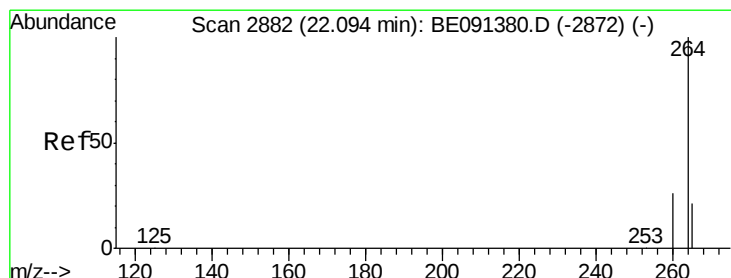
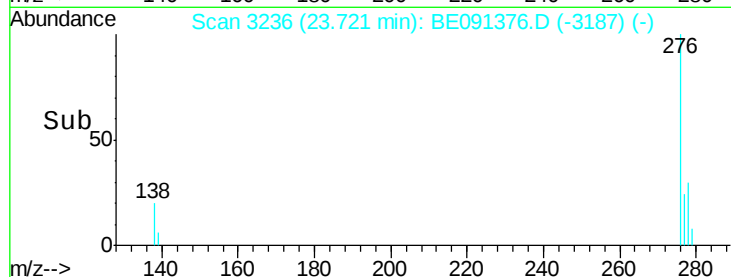
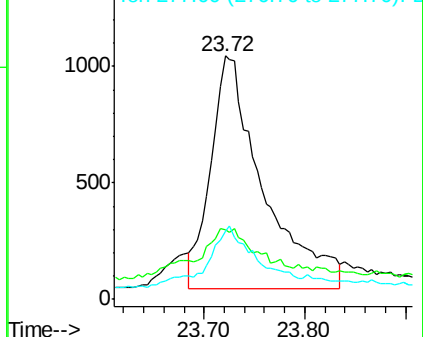
277 24.6 16.5 24.7



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



#24

Perylene-d12

Concen: 5.00 ng

RT: 22.10 min Scan# 2883

Delta R.T. 0.00 min

Lab File: BE091376.D

Acq: 2 Feb 2016 14:11

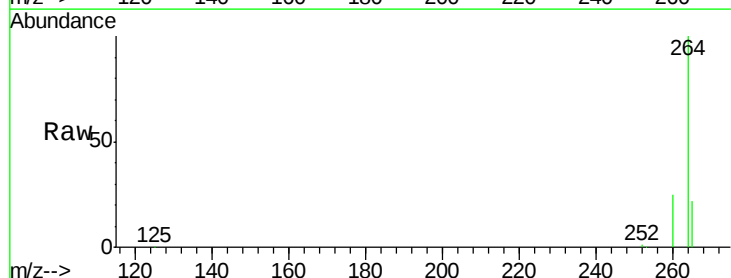
Tgt Ion:264 Resp: 274736

Ion Ratio Lower Upper

264 100

260 25.2 20.4 30.6

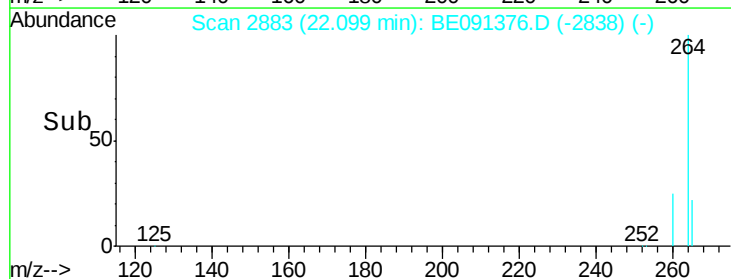
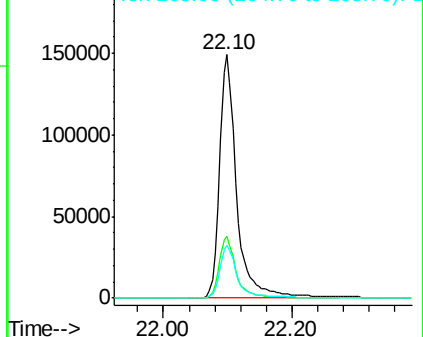
265 21.9 17.2 25.8



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

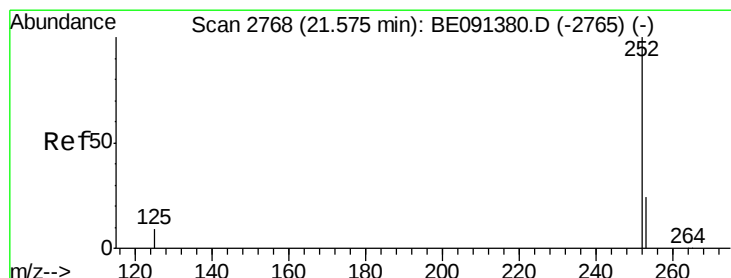
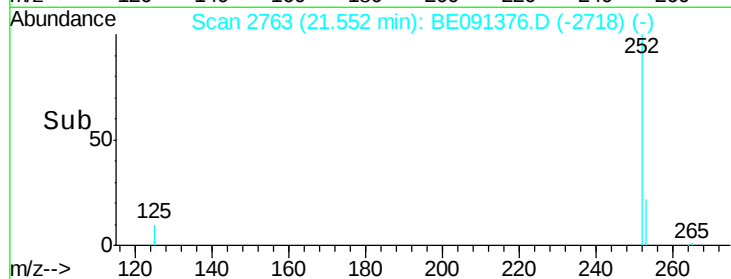
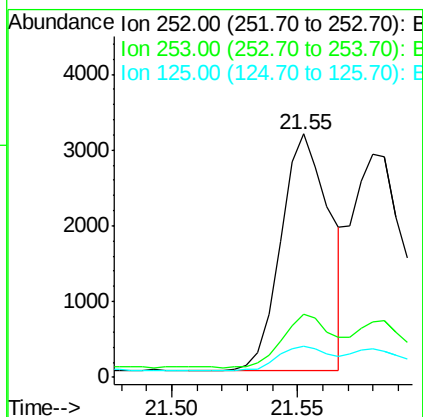
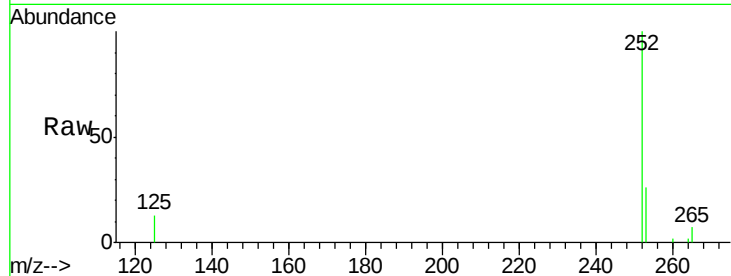




#25
Benzo(b)fluoranthene
Concen: 0.09 ng
RT: 21.55 min Scan# 2763
Delta R.T. 0.00 min
Lab File: BE091376.D
Acq: 2 Feb 2016 14:11

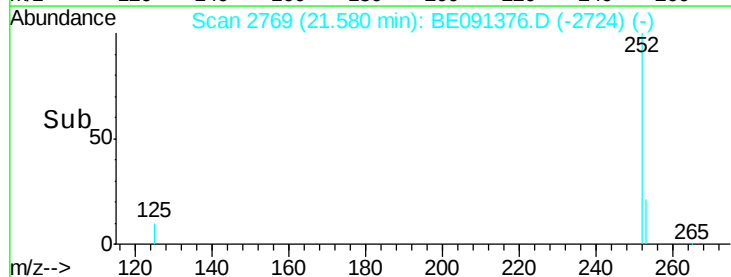
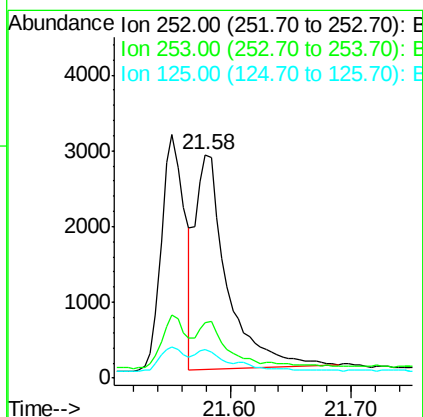
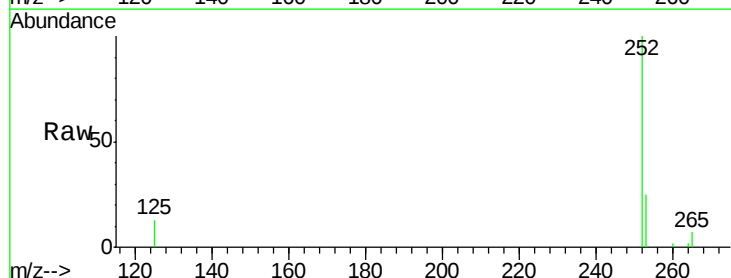
Instrument :
BNA_E
ClientSampleId :
SSTDIC0.1

Tot Ion:252 Resp: 4226
Ion Ratio Lower Upper
252 100
253 25.9 17.4 26.2
125 12.9 11.0 16.6



#26
Benzo(k)fluoranthene
Concen: 0.09 ng
RT: 21.58 min Scan# 2769
Delta R.T. 0.00 min
Lab File: BE091376.D
Acq: 2 Feb 2016 14:11

Tgt Ion:252 Resp: 5088
Ion Ratio Lower Upper
252 100
253 25.0 17.5 26.3
125 12.9 11.3 16.9





#27

Benzo(a)pyrene

Concen: 0.08 ng

RT: 22.01 min Scan# 2863

Delta R.T. 0.00 min

Lab File: BE091376.D

Acq: 2 Feb 2016 14:11

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.1

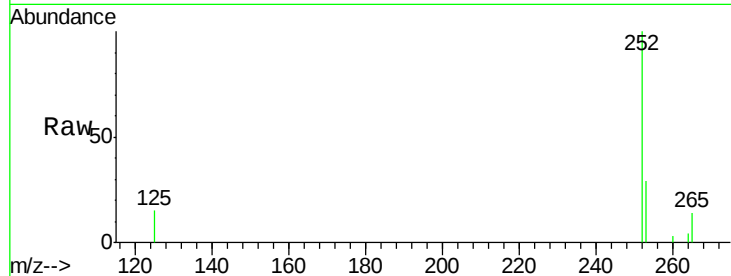
Tot Ion:252 Resp: 3534

Ion Ratio Lower Upper

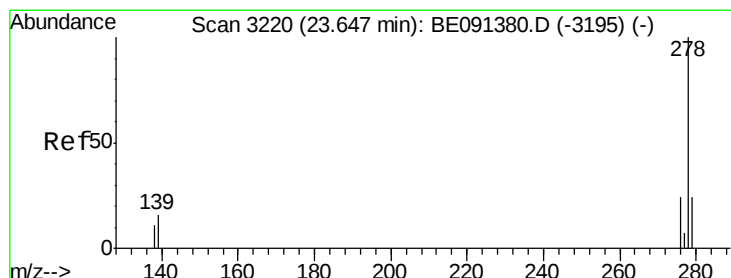
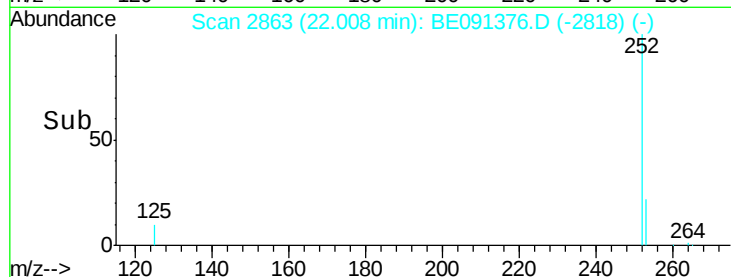
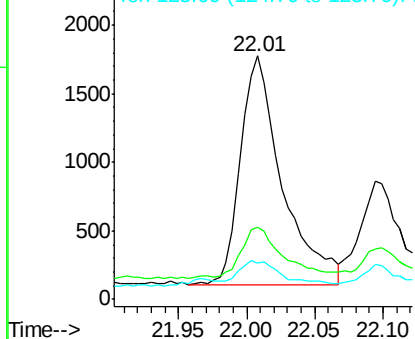
252 100

253 29.4 18.1 27.1#

125 14.8 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



#28

Dibenzo(a,h)anthracene

Concen: 0.07 ng

RT: 23.68 min Scan# 3227

Delta R.T. 0.03 min

Lab File: BE091376.D

Acq: 2 Feb 2016 14:11

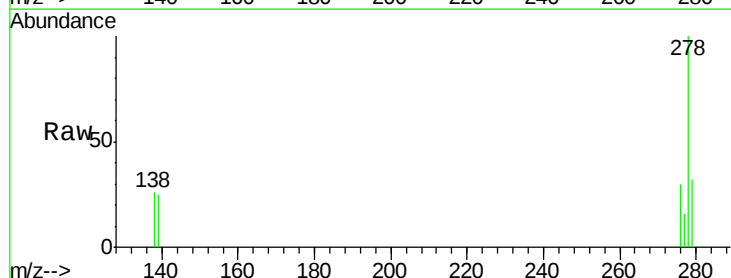
Tgt Ion:278 Resp: 2306

Ion Ratio Lower Upper

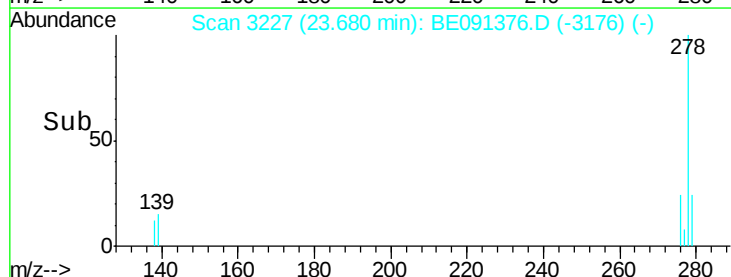
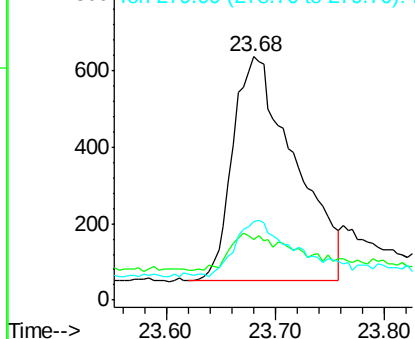
278 100

139 25.1 16.3 24.5#

279 32.0 19.4 29.2#



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





#29

Benzo(a,h,i)perylene

Concen: 0.09 ng

RT: 24.27 min Scan# 3356

Delta R.T. 0.02 min

Lab File: BE091376.D

Acq: 2 Feb 2016 14:11

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.1

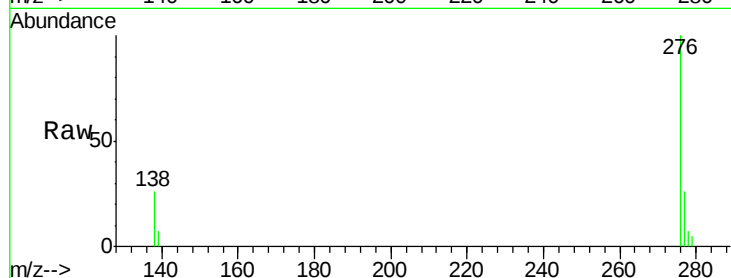
Tot Ion: 276 Resp: 4192

Ion Ratio Lower Upper

276 100

277 26.3 19.8 29.6

138 25.9 23.3 34.9



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

