

Data Path : Z:\HPCHEM1\BNA E\DATA\BE020216\
 Data File : BE091384.D
 Acq On : 2 Feb 2016 19:09
 Operator : UM/IZ
 Sample : SSTDICV001
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 ICVBE020216

Quant Time: Feb 03 00:35:50 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE020216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 03 00:27:53 2016
 Response via : Initial Calibration

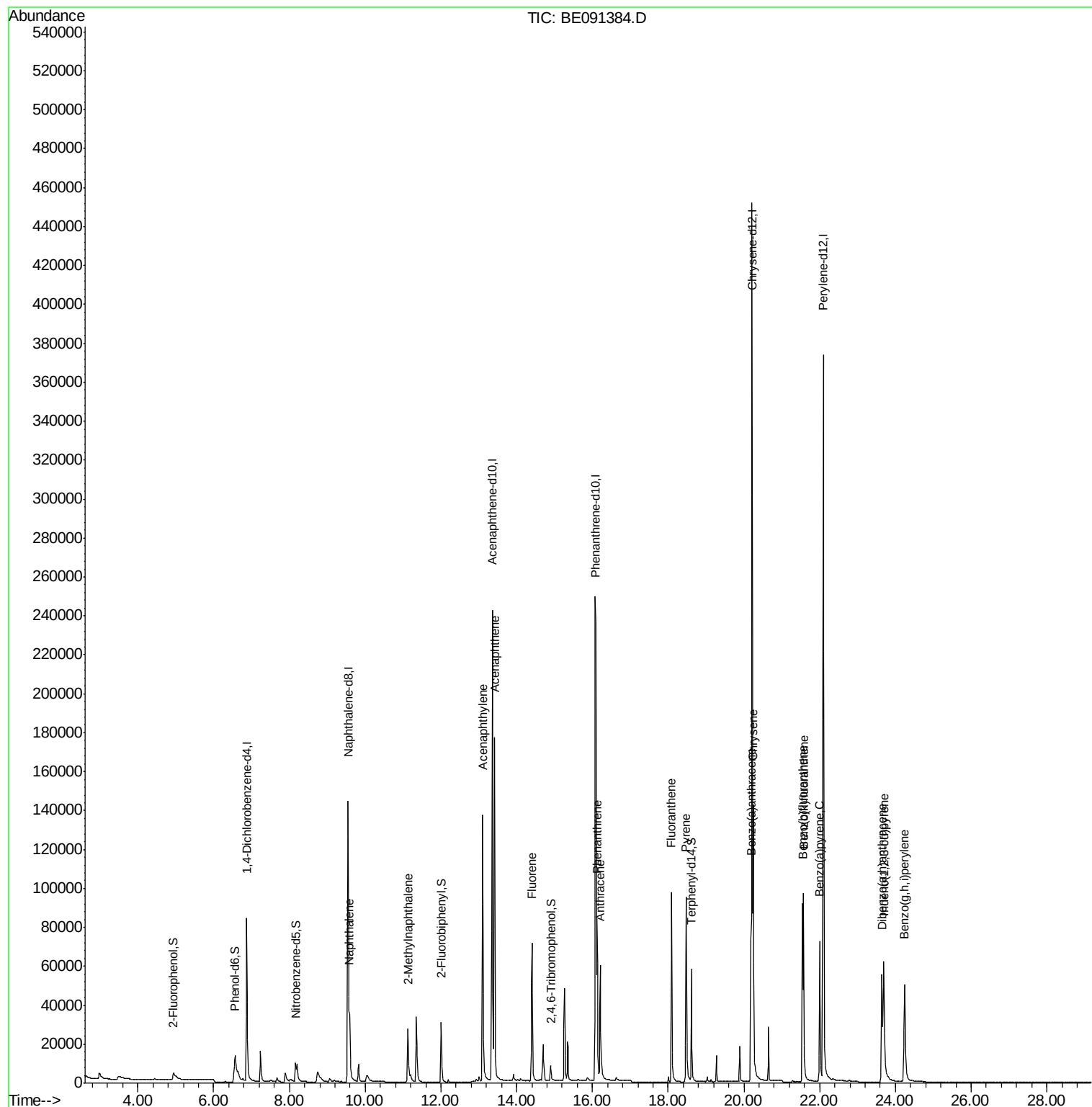
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	45623	5.00	ng	0.00
4) Naphthalene-d8	9.55	136	223820	5.00	ng	0.00
8) Acenaphthene-d10	13.36	164	146695	5.00	ng	0.00
14) Phenanthrene-d10	16.09	188	371147	5.00	ng	0.00
18) Chrysene-d12	20.22	240	440148	5.00	ng	0.00
24) Perylene-d12	22.10	264	430082	5.00	ng	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.94	112	8882	1.02	ng	0.00
3) Phenol-d6	6.56	99	14025	1.10	ng	0.00
5) Nitrobenzene-d5	8.16	82	11791	1.03	ng	0.00
9) 2,4,6-Tribromophenol	14.91	330	4460	0.93	ng	0.00
10) 2-Fluorobiphenyl	12.01	172	36241	0.95	ng	0.00
20) Terphenyl-d14	18.62	244	67623	1.04	ng	0.00
Target Compounds						Qvalue
6) Naphthalene	9.59	128	48500	0.96	ng	100
7) 2-Methylnaphthalene	11.13	142	27466	0.98	ng	98
11) Acenaphthylene	13.10	152	202290	0.94	ng	99
12) Acenaphthene	13.42	154	37134	0.92	ng	99
13) Fluorene	14.40	166	50170	0.96	ng	99
15) Phenanthrene	16.12	178	91315	0.94	ng	100
16) Anthracene	16.21	178	80127	0.98	ng	99
17) Fluoranthene	18.09	202	100927	1.08	ng	100
19) Pyrene	18.47	202	98161	1.03	ng	100
21) Benzo(a)anthracene	20.19	228	89446	1.05	ng	98
22) Chrysene	20.25	228	111755	0.97	ng	99
23) Indeno(1,2,3-cd)pyrene	23.69	276	94384	1.07	ng	97
25) Benzo(b)fluoranthene	21.55	252	96234	1.02	ng	99
26) Benzo(k)fluoranthene	21.57	252	102729	0.97	ng	99
27) Benzo(a)pyrene	22.00	252	90290	1.05	ng	99
28) Dibenzo(a,h)anthracene	23.64	278	85646	1.08	ng	99
29) Benzo(g,h,i)perylene	24.24	276	95483	1.01	ng	100

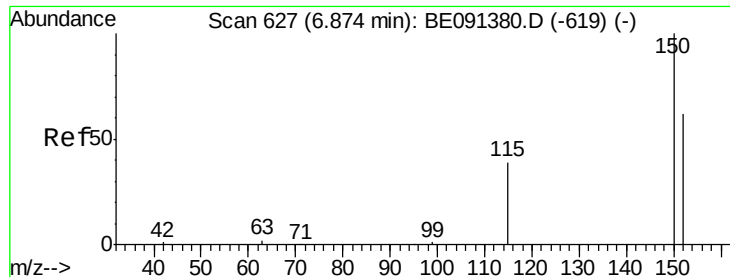
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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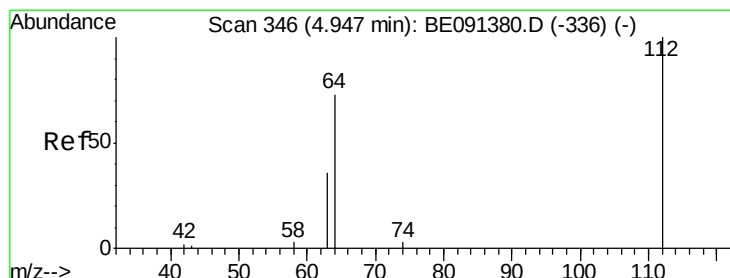
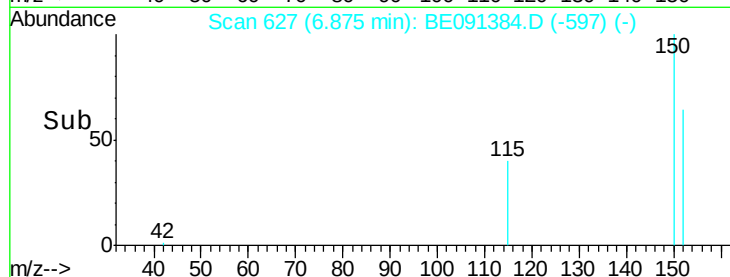
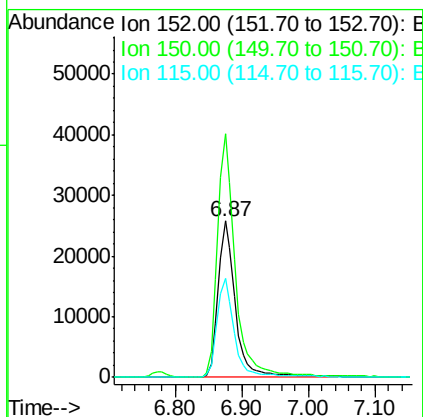
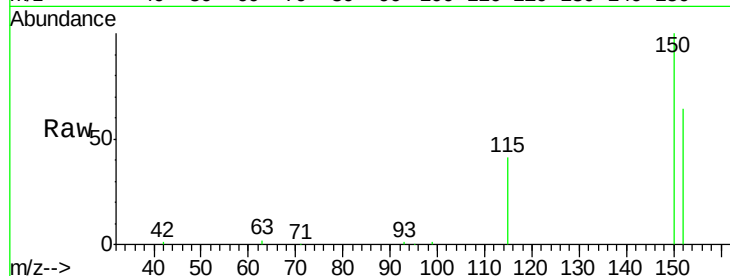


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 6.87 min Scan# 627
Delta R.T. 0.00 min
Lab File: BE091384.D
Acq: 2 Feb 2016 19:09

Instrument :
BNA_E
ClientSampleId :
ICVBE020216

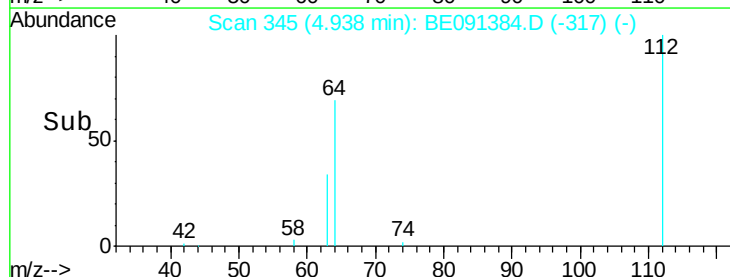
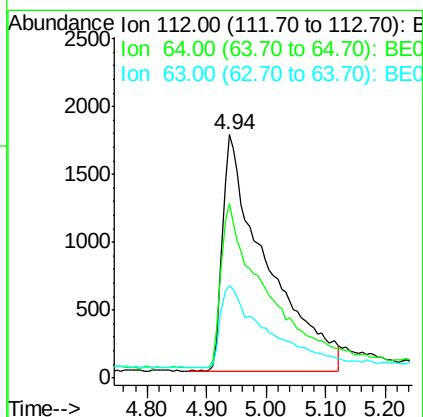
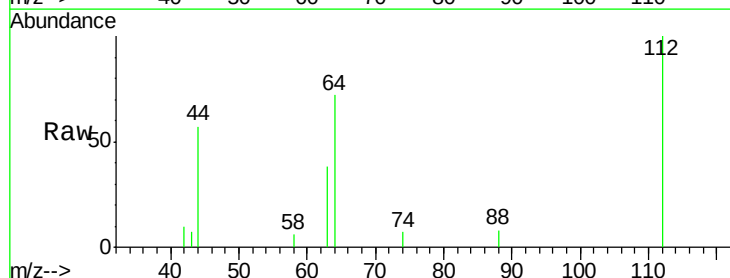
Tot Ion:152 Resp: 45623
Ion Ratio Lower Upper
152 100
150 155.9 128.9 193.3
115 63.3 50.9 76.3

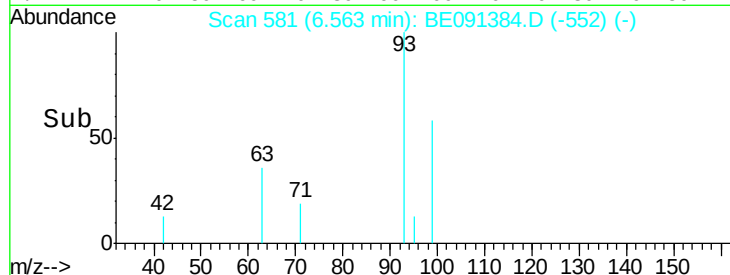
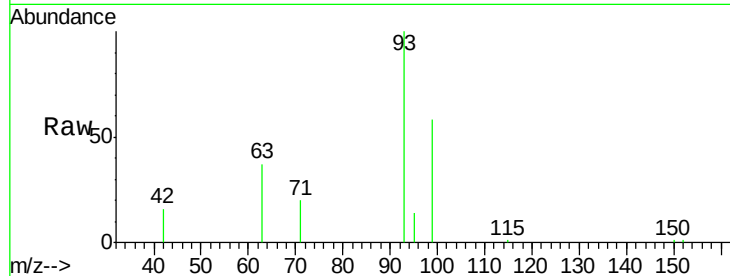
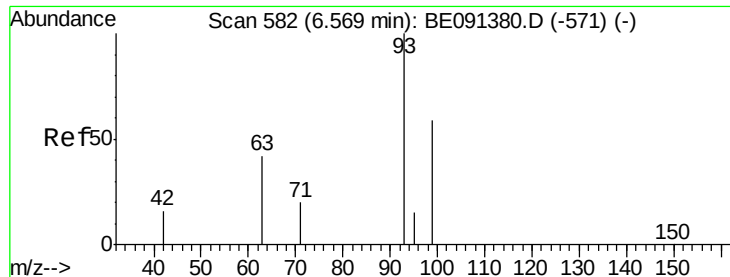


#2

2-Fluorophenol
Concen: 1.02 ng
RT: 4.94 min Scan# 345
Delta R.T. -0.01 min
Lab File: BE091384.D
Acq: 2 Feb 2016 19:09

Tgt Ion:112 Resp: 8882
Ion Ratio Lower Upper
112 100
64 70.7 60.5 90.7
63 37.1 29.8 44.8





#3

Phenol-d6

Concen: 1.10 ng

RT: 6.56 min Scan# 581

Delta R.T. -0.01 min

Lab File: BE091384.D

Acq: 2 Feb 2016 19:09

Instrument :

BNA_E

ClientSampleId :

ICVBE020216

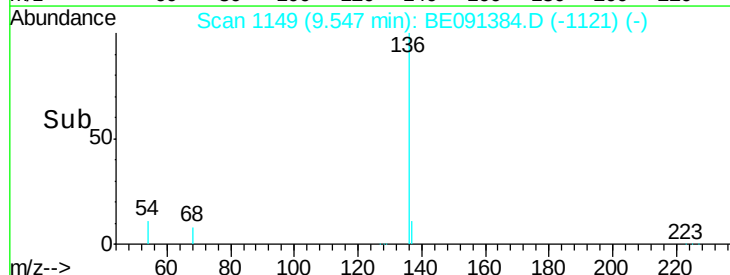
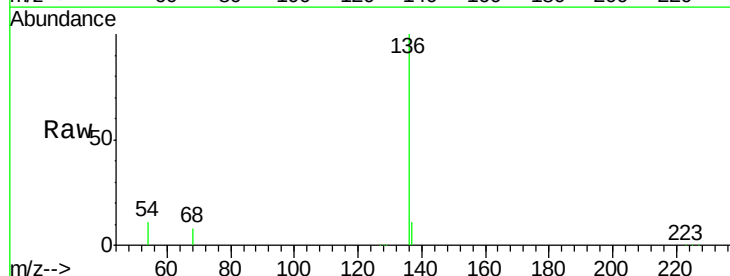
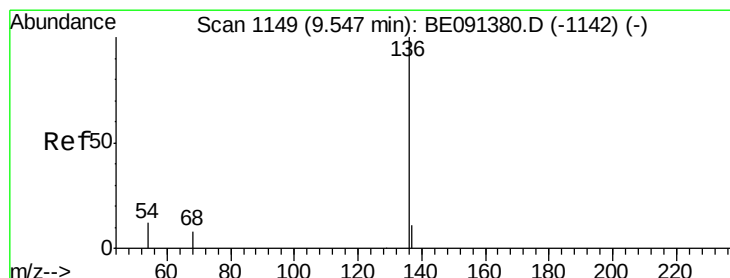
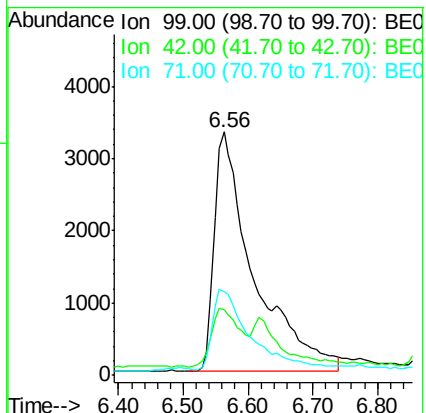
Tot Ion: 99 Resp: 14025

Ion Ratio Lower Upper

99 100

42 18.1 13.3 19.9

71 31.7 25.6 38.4



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.55 min Scan# 1149

Delta R.T. 0.00 min

Lab File: BE091384.D

Acq: 2 Feb 2016 19:09

Tgt Ion: 136 Resp: 223820

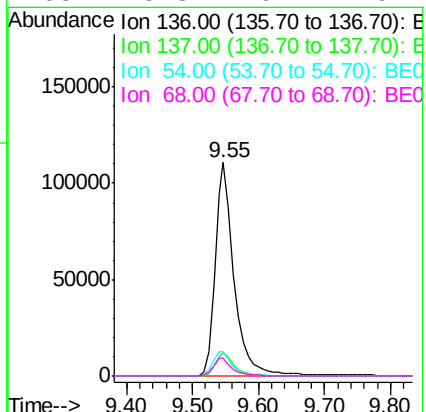
Ion Ratio Lower Upper

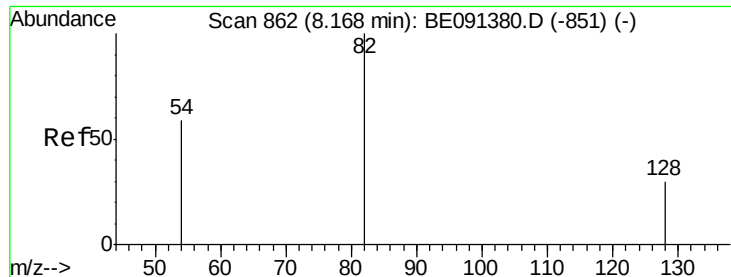
136 100

137 10.9 8.7 13.1

54 11.1 9.3 13.9

68 8.3 6.7 10.1





#5

Nitrobenzene-d5

Concen: 1.03 ng

RT: 8.16 min Scan# 861

Delta R.T. -0.00 min

Lab File: BE091384.D

Acq: 2 Feb 2016 19:09

Instrument :

BNA_E

ClientSampleId :

ICVBE020216

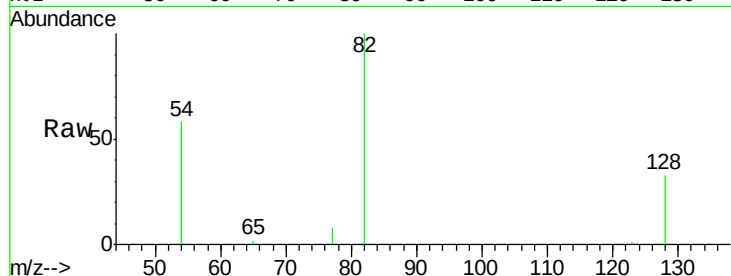
Tot Ion: 82 Resp: 11791

Ion Ratio Lower Upper

82 100

128 32.7 25.0 37.4

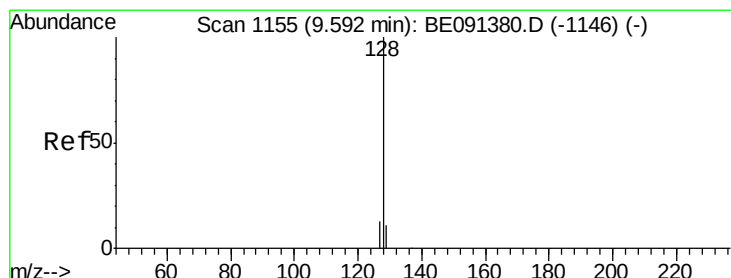
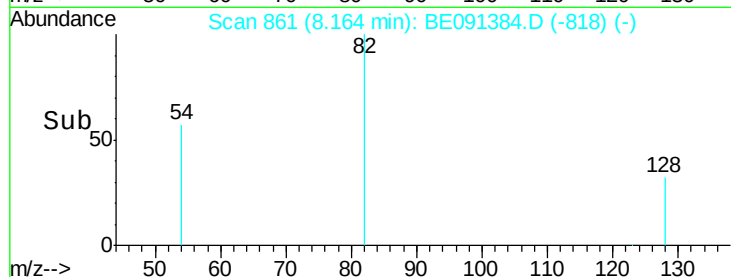
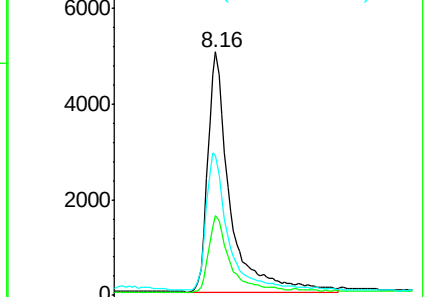
54 57.6 48.1 72.1



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: 0.96 ng

RT: 9.59 min Scan# 1155

Delta R.T. 0.00 min

Lab File: BE091384.D

Acq: 2 Feb 2016 19:09

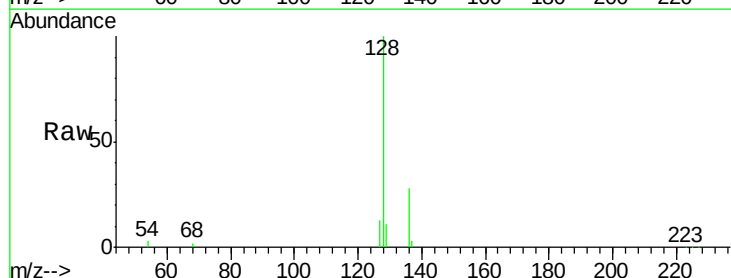
Tgt Ion: 128 Resp: 48500

Ion Ratio Lower Upper

128 100

129 11.4 9.1 13.7

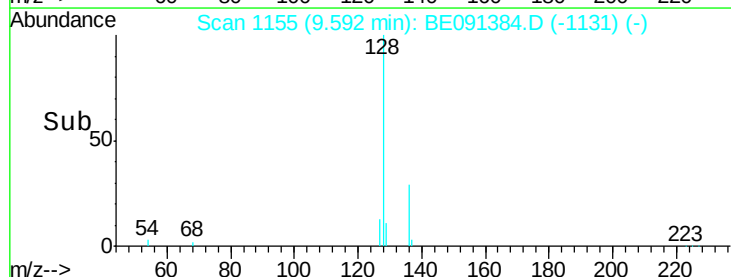
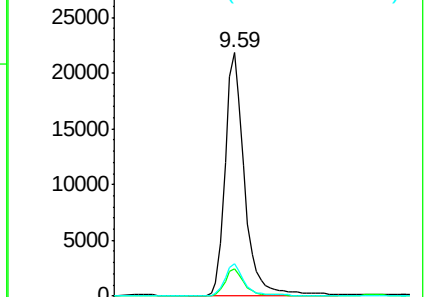
127 13.1 10.5 15.7

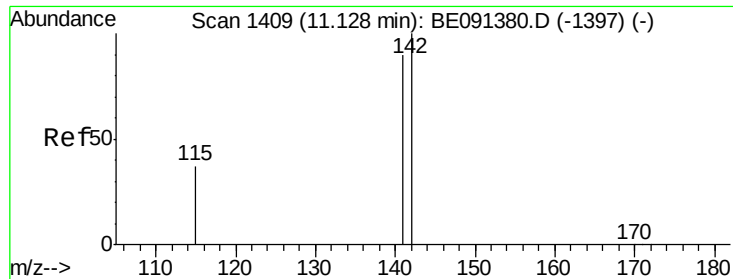


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 0.98 ng

RT: 11.13 min Scan# 1409

Delta R.T. -0.00 min

Lab File: BE091384.D

Acq: 2 Feb 2016 19:09

Instrument :

BNA_E

ClientSampleId :

ICVBE020216

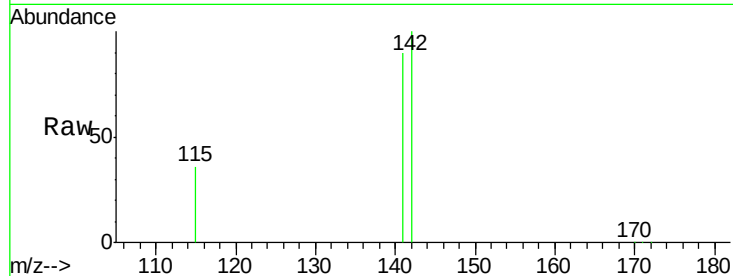
Tot Ion:142 Resp: 27466

Ion Ratio Lower Upper

142 100

141 89.6 72.3 108.5

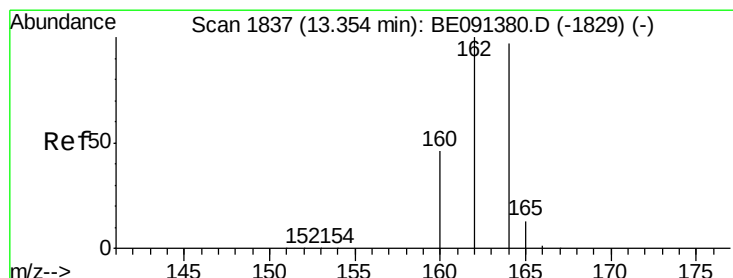
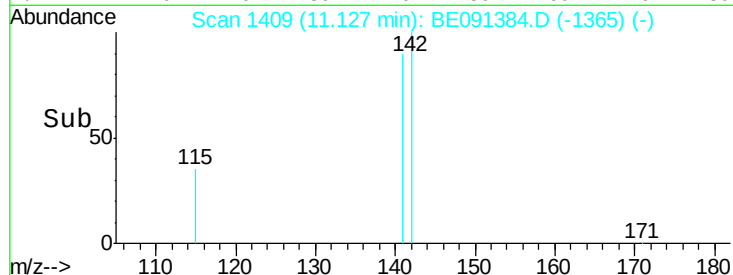
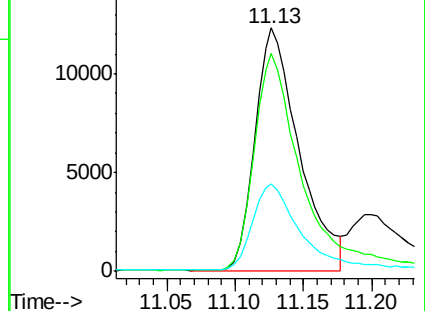
115 35.8 30.5 45.7



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: 13.36 min Scan# 1838

Delta R.T. 0.00 min

Lab File: BE091384.D

Acq: 2 Feb 2016 19:09

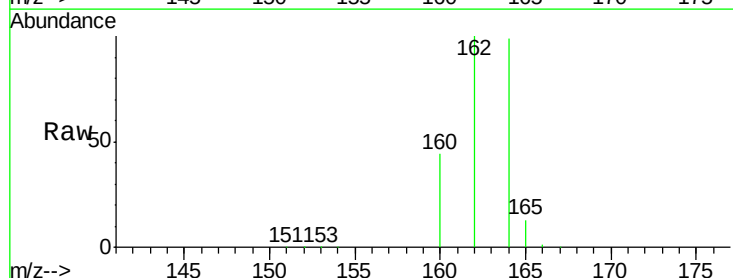
Tgt Ion:164 Resp: 146695

Ion Ratio Lower Upper

164 100

162 100.6 82.2 123.2

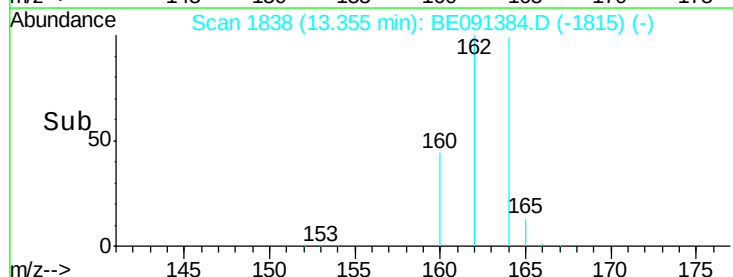
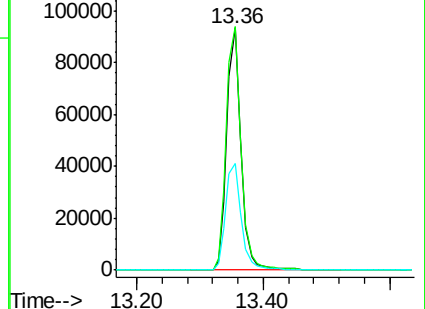
160 44.3 37.8 56.8

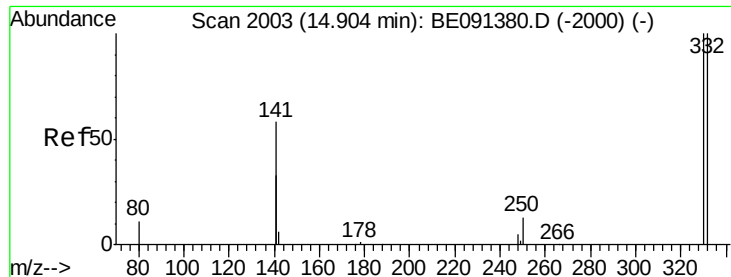


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

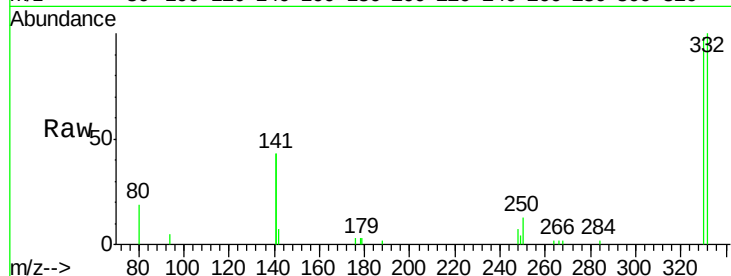




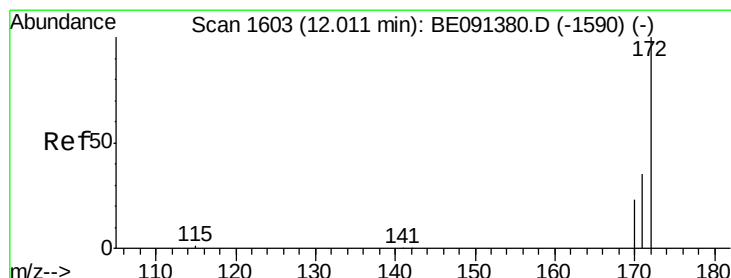
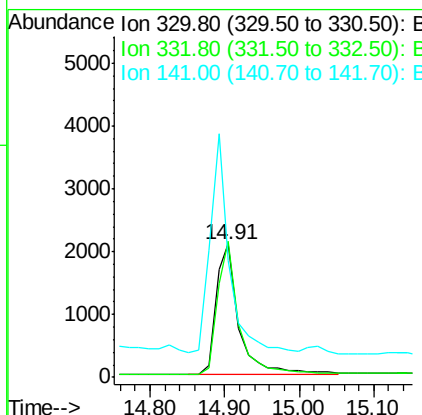
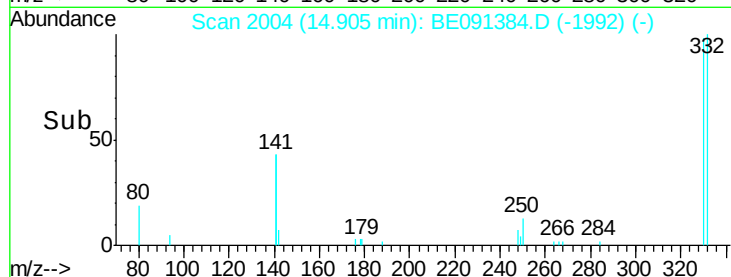
#9
 2,4,6-Tribromophenol
 Concen: 0.93 ng
 RT: 14.91 min Scan# 2004
 Delta R.T. 0.00 min
 Lab File: BE091384.D
 Acq: 2 Feb 2016 19:09

Instrument :
 BNA_E
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 ICVBE020216

Tot Ion:330 Resp: 4460
 Ion Ratio Lower Upper
 330 100
 332 96.6 78.8 118.2
 141 137.1 105.1 157.7

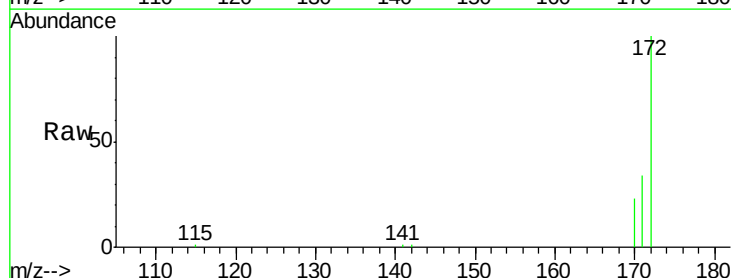


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

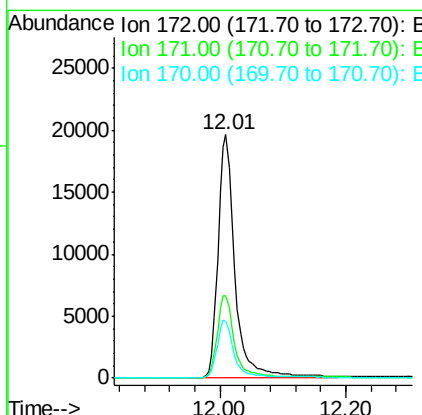
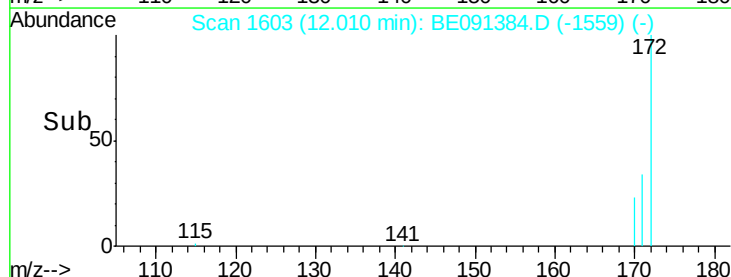


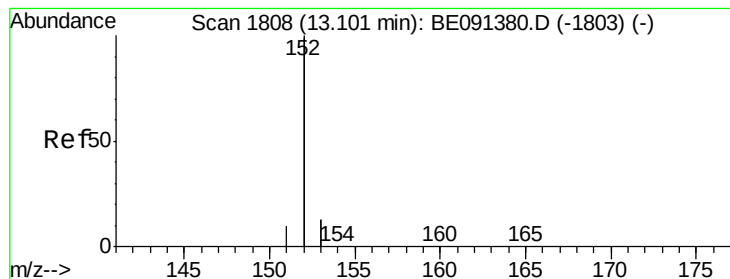
#10
 2-Fluorobiphenyl
 Concen: 0.95 ng
 RT: 12.01 min Scan# 1603
 Delta R.T. -0.00 min
 Lab File: BE091384.D
 Acq: 2 Feb 2016 19:09

Tgt Ion:172 Resp: 36241
 Ion Ratio Lower Upper
 172 100
 171 33.8 27.8 41.8
 170 23.1 18.6 28.0



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





#11

Acenaphthylene

Concen: 0.94 ng

RT: 13.10 min Scan# 1809

Delta R.T. 0.00 min

Lab File: BE091384.D

Acq: 2 Feb 2016 19:09

Instrument :

BNA_E

ClientSampleId :

ICVBE020216

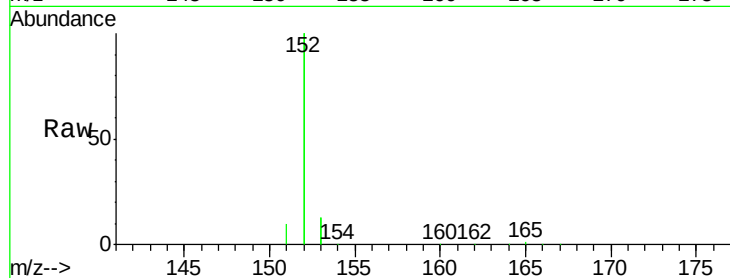
Tot Ion:152 Resp: 202290

Ion Ratio Lower Upper

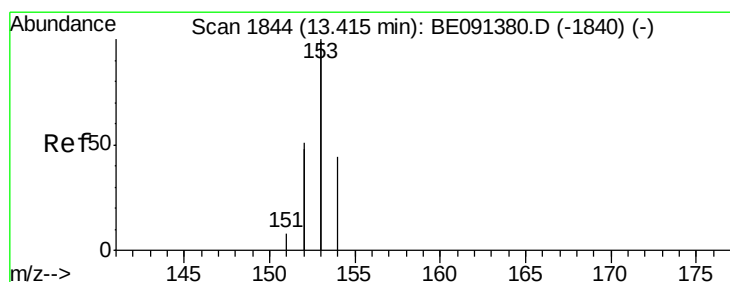
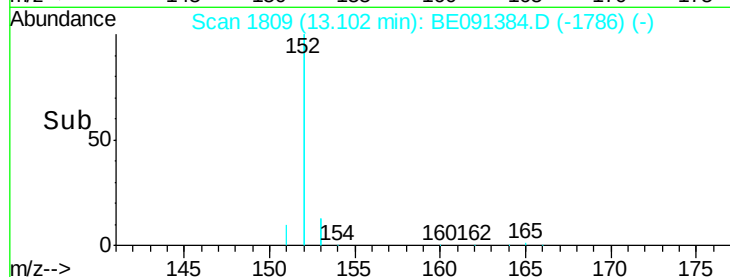
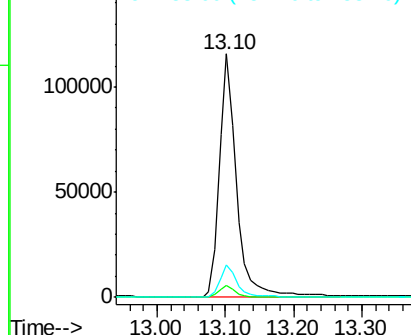
152 100

151 4.8 3.8 5.8

153 13.1 10.2 15.4



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: 0.92 ng

RT: 13.42 min Scan# 1845

Delta R.T. 0.00 min

Lab File: BE091384.D

Acq: 2 Feb 2016 19:09

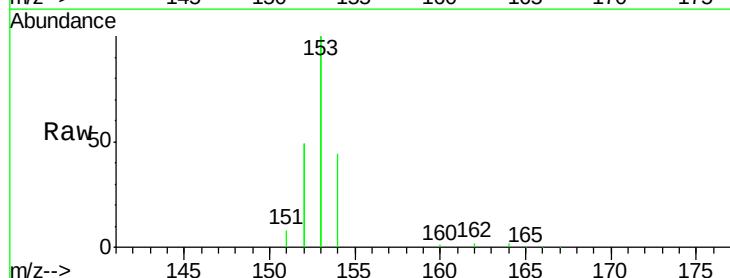
Tgt Ion:154 Resp: 37134

Ion Ratio Lower Upper

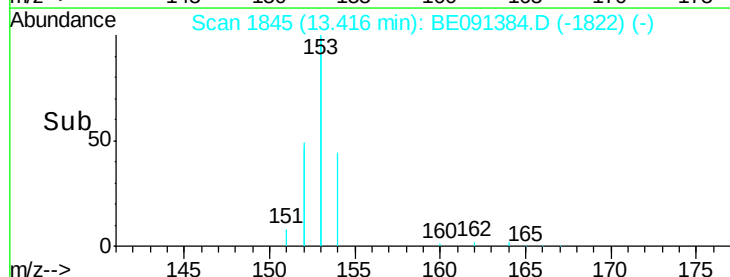
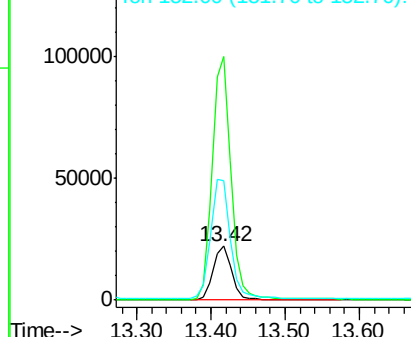
154 100

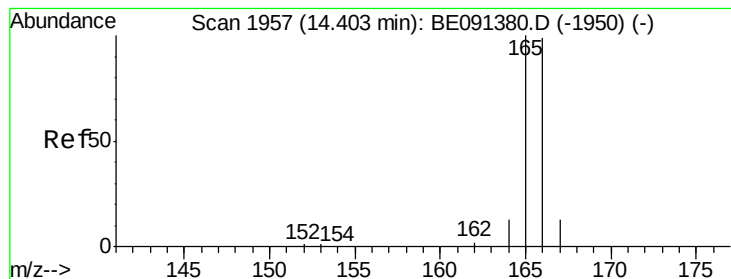
153 460.6 369.8 554.8

152 238.5 194.4 291.6



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: 0.96 ng

RT: 14.40 min Scan# 1958

Delta R.T. 0.00 min

Lab File: BE091384.D

Acq: 2 Feb 2016 19:09

Instrument :

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ClientSampleId :

ICVBE020216

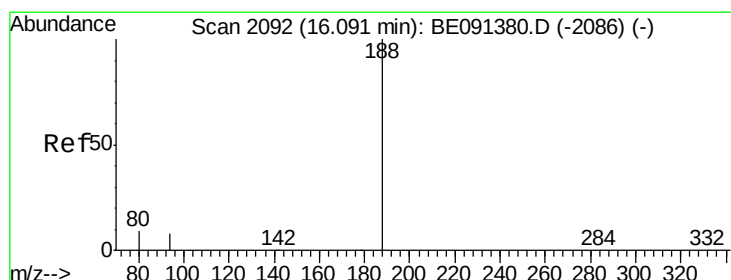
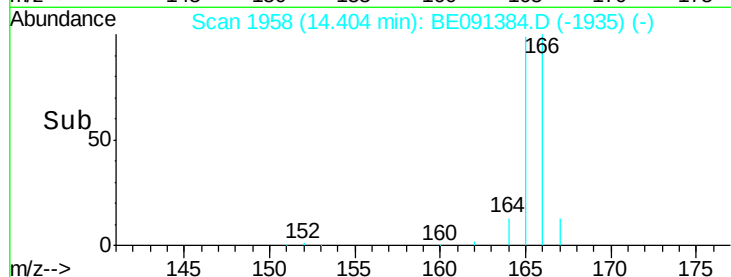
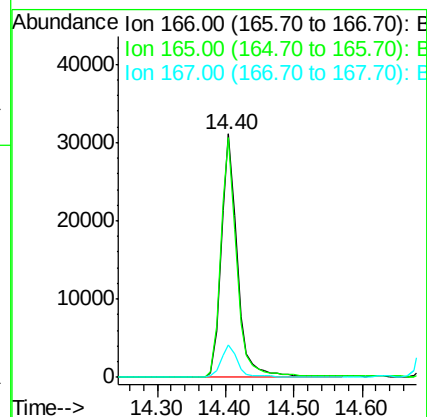
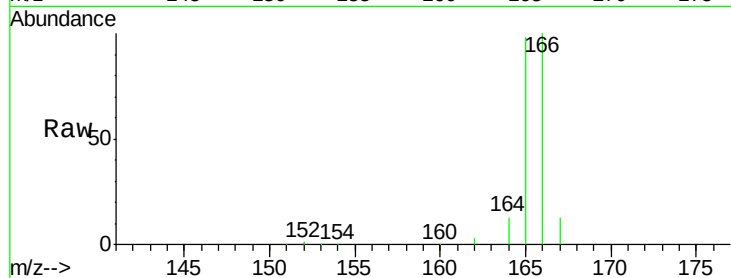
Tot Ion:166 Resp: 50170

Ion Ratio Lower Upper

166 100

165 98.5 79.3 118.9

167 13.5 10.6 16.0



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.09 min Scan# 2093

Delta R.T. 0.00 min

Lab File: BE091384.D

Acq: 2 Feb 2016 19:09

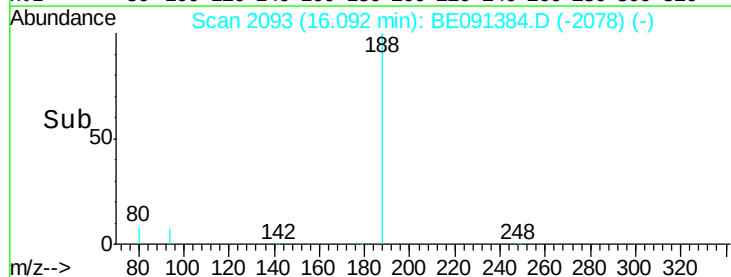
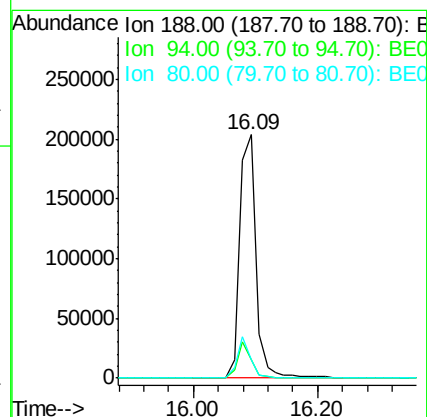
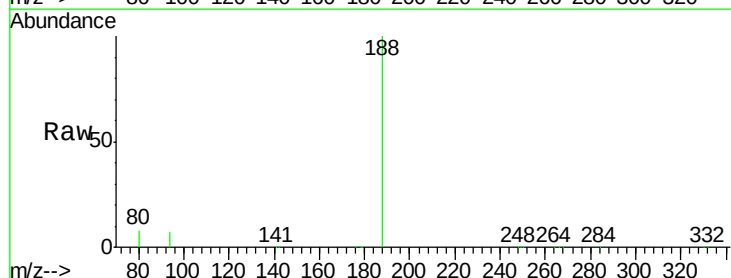
Tgt Ion:188 Resp: 371147

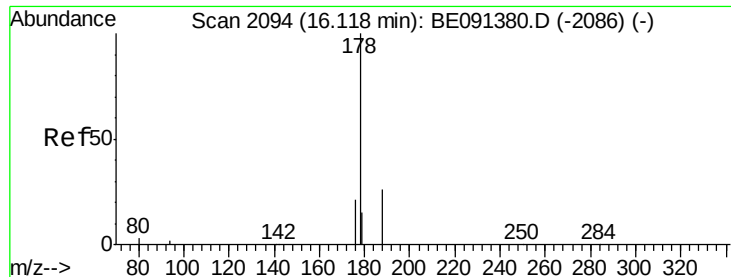
Ion Ratio Lower Upper

188 100

94 7.4 6.6 10.0

80 7.7 7.0 10.6





#15

Phenanthrene

Concen: 0.94 ng

RT: 16.12 min Scan# 2095

Delta R.T. 0.00 min

Lab File: BE091384.D

Acq: 2 Feb 2016 19:09

Instrument :

BNA_E

ClientSampleId :

ICVBE020216

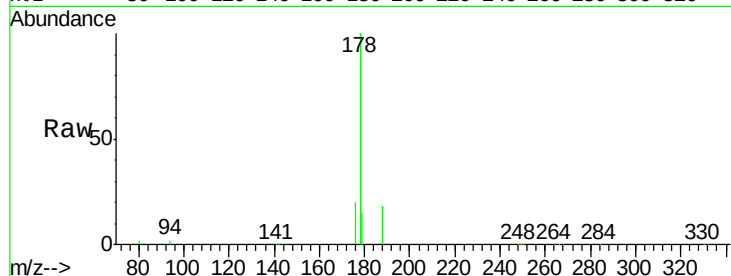
Tot Ion:178 Resp: 91315

Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.2

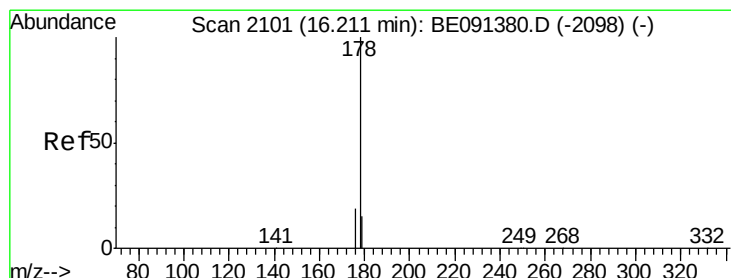
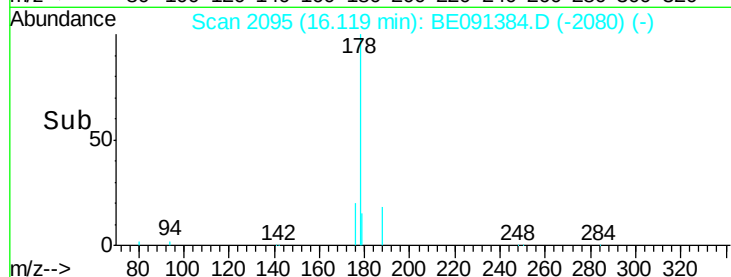
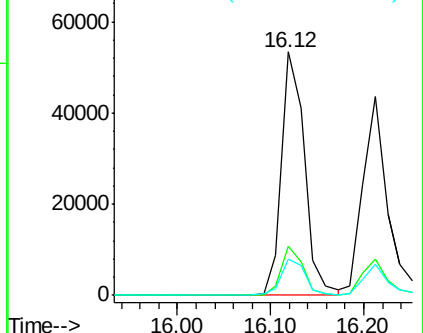
179 15.6 12.7 19.1



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: 0.98 ng

RT: 16.21 min Scan# 2102

Delta R.T. 0.00 min

Lab File: BE091384.D

Acq: 2 Feb 2016 19:09

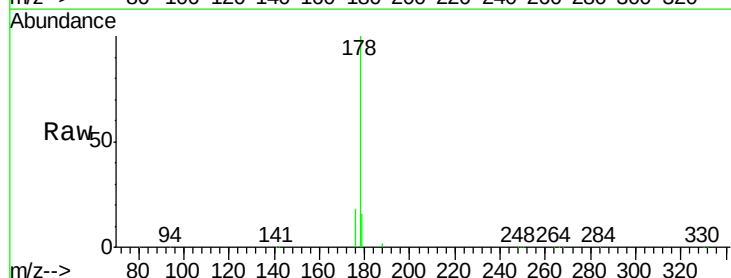
Tgt Ion:178 Resp: 80127

Ion Ratio Lower Upper

178 100

176 18.6 14.8 22.2

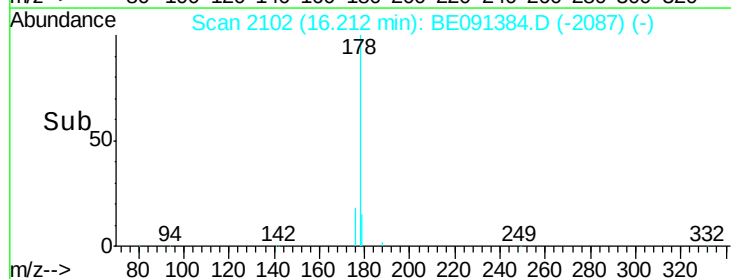
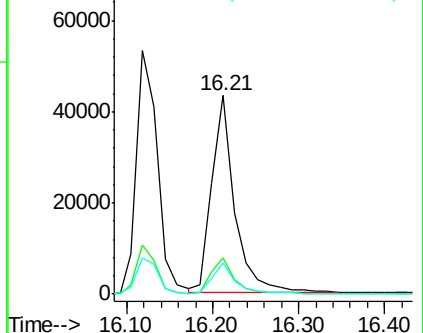
179 15.4 12.1 18.1

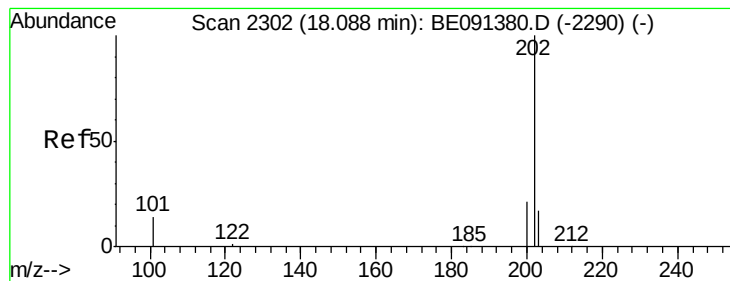


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#17

Fluoranthene

Concen: 1.08 ng

RT: 18.09 min Scan# 2303

Delta R.T. 0.00 min

Lab File: BE091384.D

Acq: 2 Feb 2016 19:09

Instrument :

BNA_E

ClientSampleId :

ICVBE020216

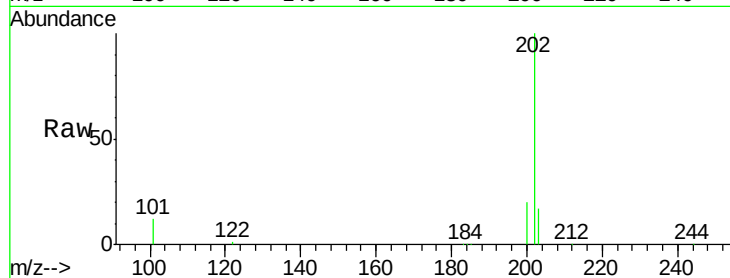
Tot Ion:202 Resp: 100927

Ion Ratio Lower Upper

202 100

101 13.2 10.5 15.7

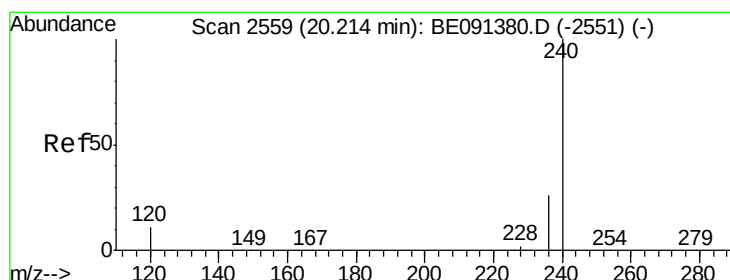
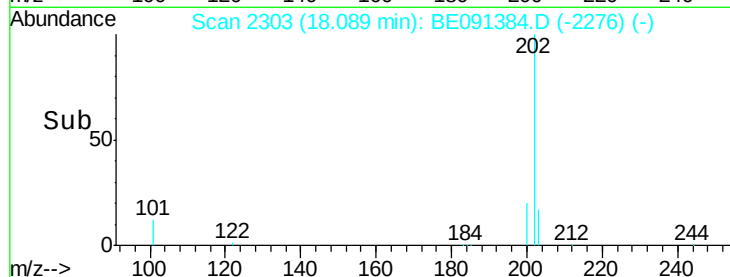
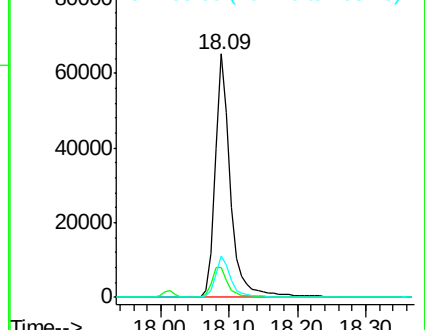
203 17.1 13.9 20.9



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: 20.22 min Scan# 2560

Delta R.T. 0.00 min

Lab File: BE091384.D

Acq: 2 Feb 2016 19:09

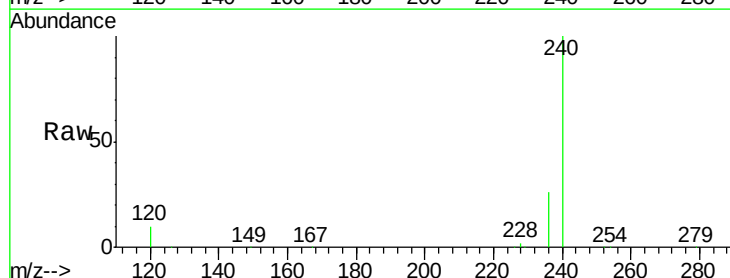
Tgt Ion:240 Resp: 440148

Ion Ratio Lower Upper

240 100

120 9.7 8.9 13.3

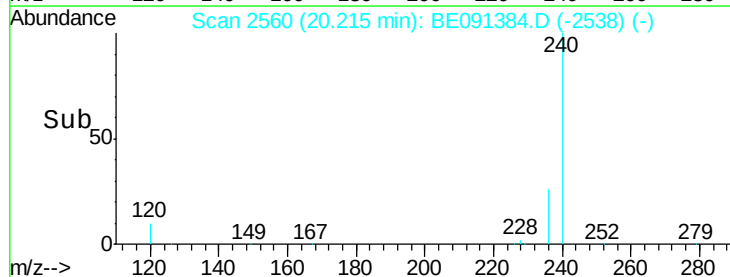
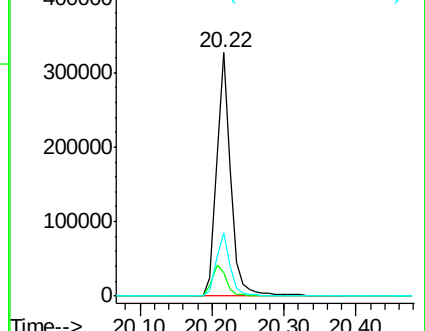
236 25.9 21.0 31.4

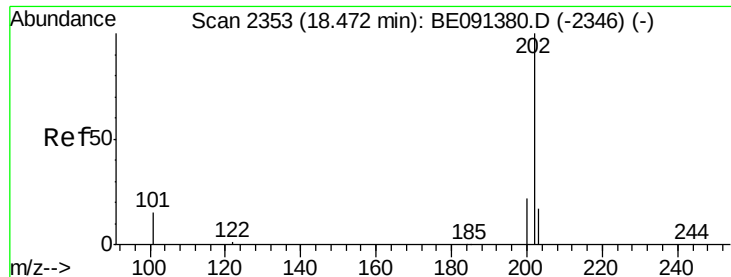


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#19

Pvrene

Concen: 1.03 ng

RT: 18.47 min Scan# 2354

Delta R.T. 0.00 min

Lab File: BE091384.D

Acq: 2 Feb 2016 19:09

Instrument :

BNA_E

ClientSampleId :

ICVBE020216

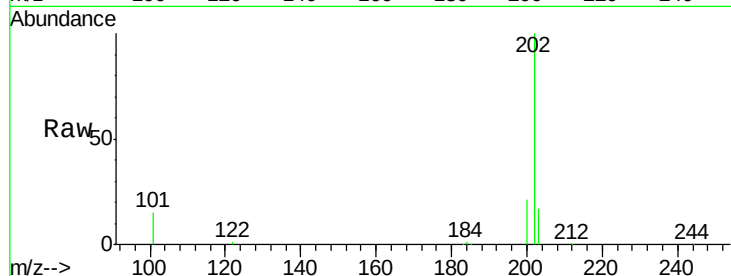
Tot Ion:202 Resp: 98161

Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

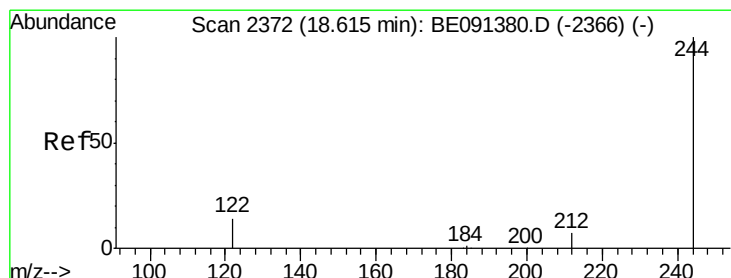
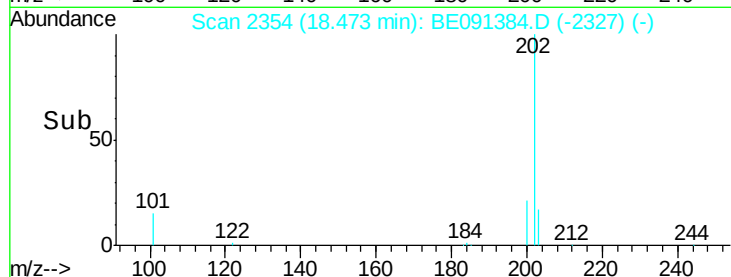
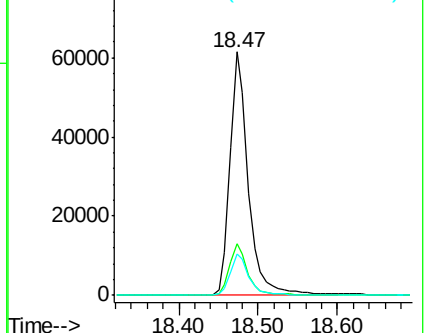
203 17.5 14.0 21.0



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: 1.04 ng

RT: 18.62 min Scan# 2373

Delta R.T. 0.00 min

Lab File: BE091384.D

Acq: 2 Feb 2016 19:09

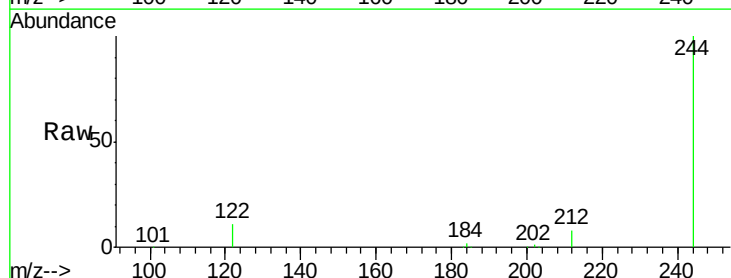
Tgt Ion:244 Resp: 67623

Ion Ratio Lower Upper

244 100

212 7.6 6.1 9.1

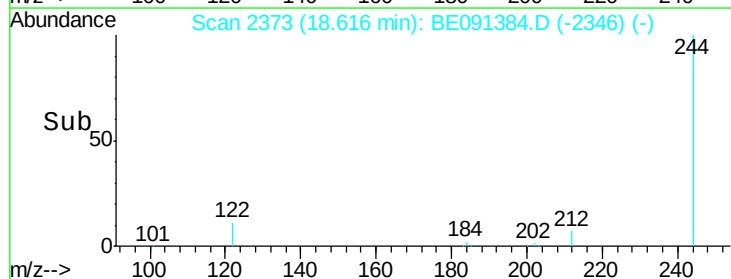
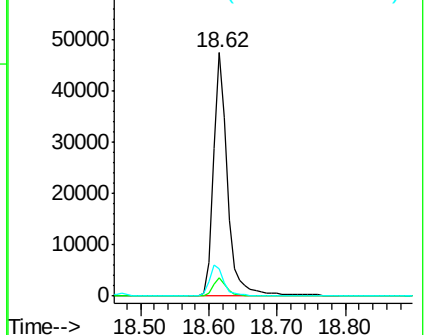
122 11.2 11.0 16.6

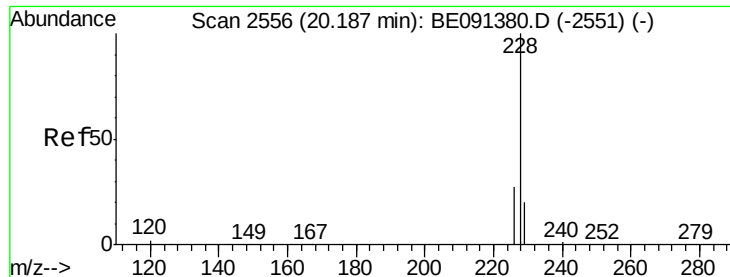


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#21

Benzo(a)anthracene

Concen: 1.05 ng

RT: 20.19 min Scan# 2557

Delta R.T. 0.00 min

Lab File: BE091384.D

Acq: 2 Feb 2016 19:09

Instrument :

BNA_E

ClientSampleId :

ICVBE020216

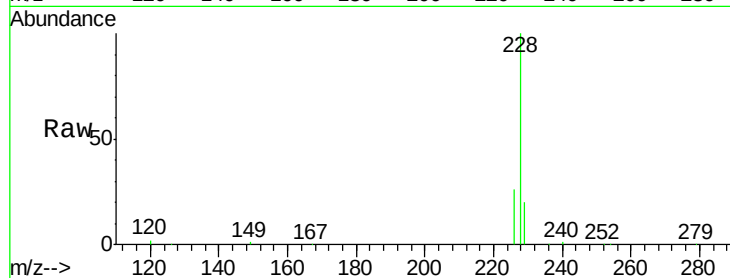
Tot Ion:228 Resp: 89446

Ion Ratio Lower Upper

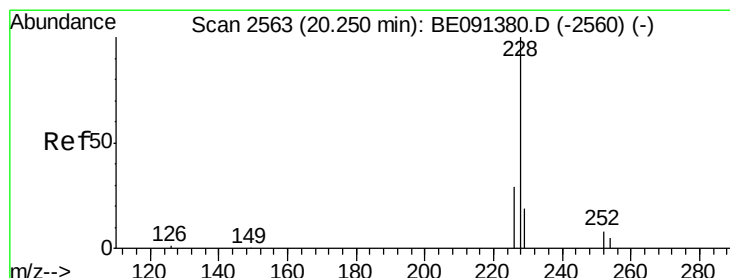
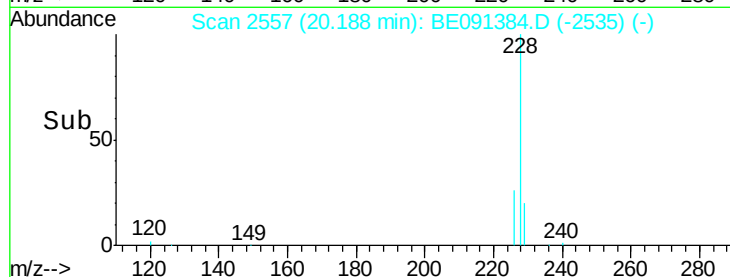
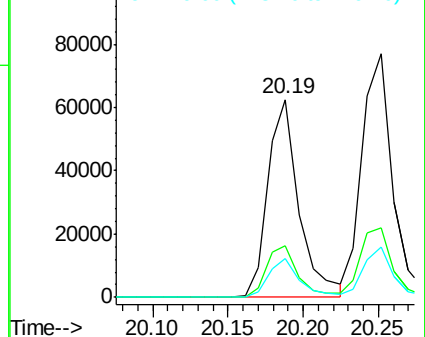
228 100

226 25.8 21.7 32.5

229 19.9 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



#22

Chrysene

Concen: 0.97 ng

RT: 20.25 min Scan# 2564

Delta R.T. 0.00 min

Lab File: BE091384.D

Acq: 2 Feb 2016 19:09

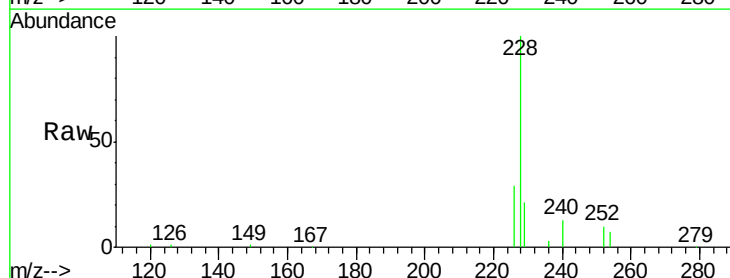
Tgt Ion:228 Resp: 111755

Ion Ratio Lower Upper

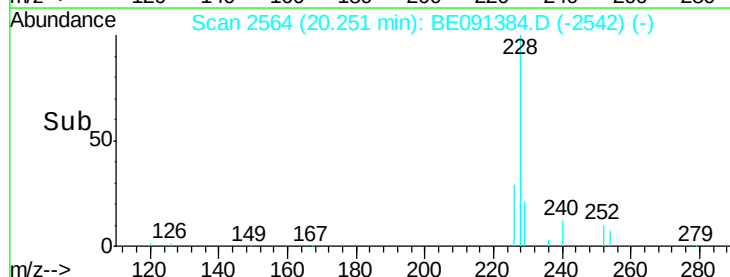
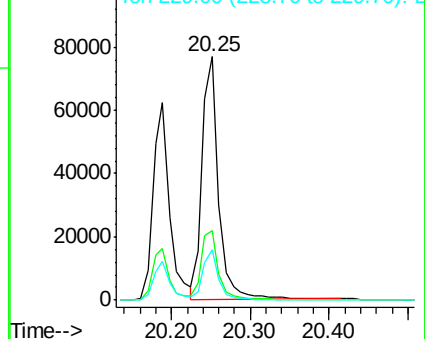
228 100

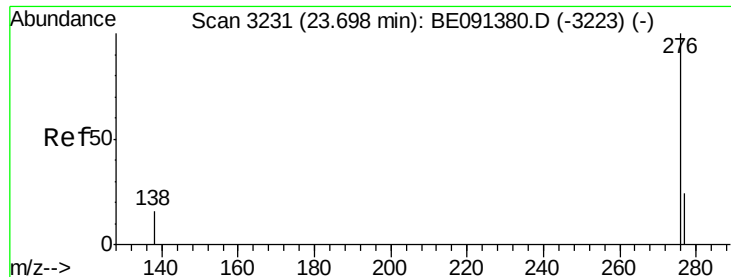
226 28.7 23.4 35.0

229 20.6 15.7 23.5



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

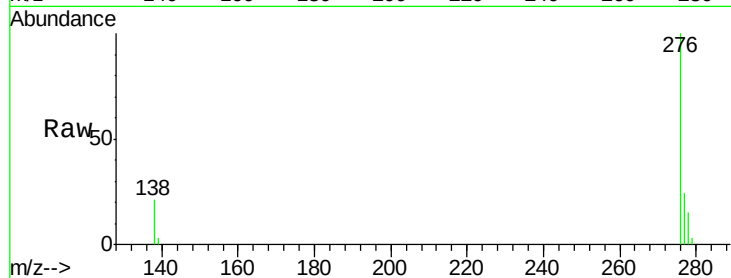




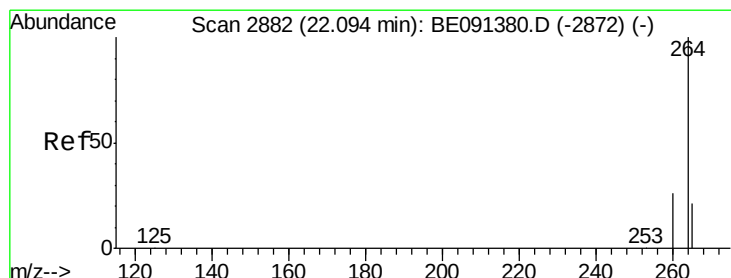
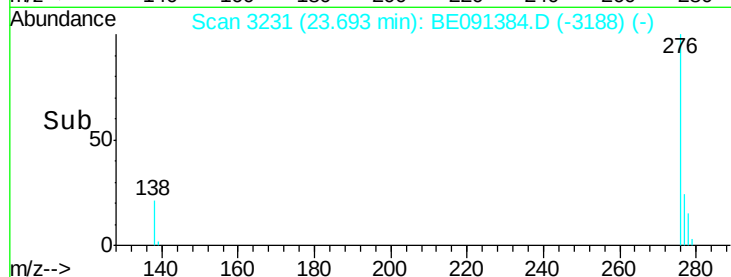
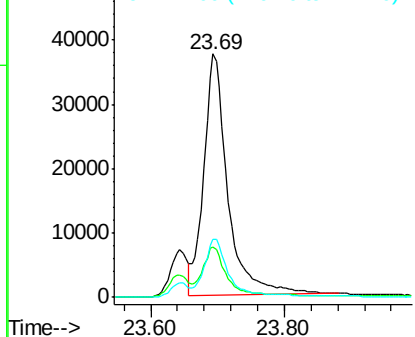
#23
Indeno(1,2,3-cd)pyrene
Concen: 1.07 ng
RT: 23.69 min Scan# 3231
Delta R.T. -0.00 min
Lab File: BE091384.D
Acq: 2 Feb 2016 19:09

Instrument :
BNA_E
ClientSampleId :
ICVBE020216

Tot Ion:276 Resp: 94384
Ion Ratio Lower Upper
276 100
138 21.0 16.6 25.0
277 21.5 19.0 28.6

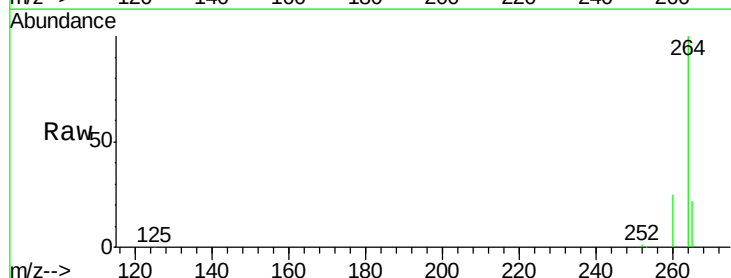


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

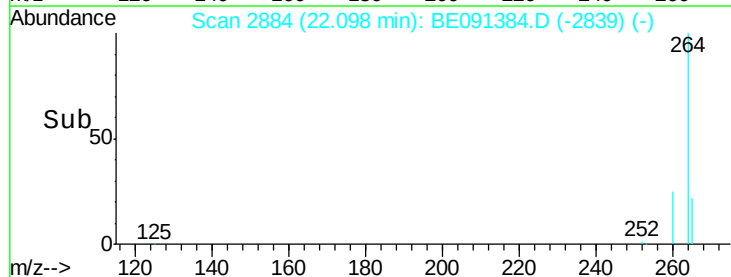
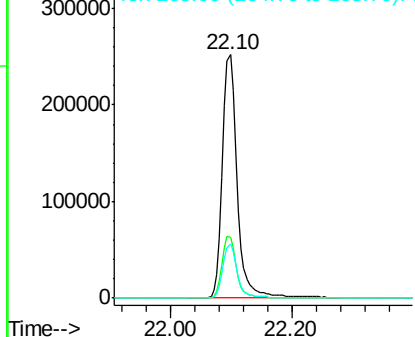


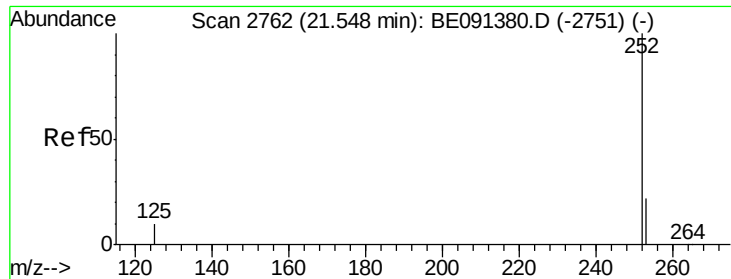
#24
Perylene-d12
Concen: 5.00 ng
RT: 22.10 min Scan# 2884
Delta R.T. 0.00 min
Lab File: BE091384.D
Acq: 2 Feb 2016 19:09

Tgt Ion:264 Resp: 430082
Ion Ratio Lower Upper
264 100
260 24.8 20.7 31.1
265 22.1 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: 1.02 ng

RT: 21.55 min Scan# 2763

Delta R.T. 0.00 min

Lab File: BE091384.D

Acq: 2 Feb 2016 19:09

Instrument :

BNA_E

ClientSampleId :

ICVBE020216

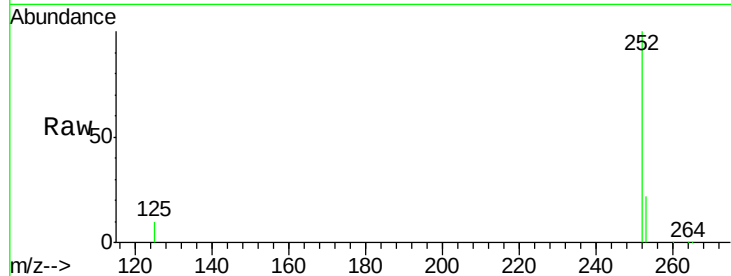
Tot Ion:252 Resp: 96234

Ion Ratio Lower Upper

252 100

253 22.2 18.2 27.2

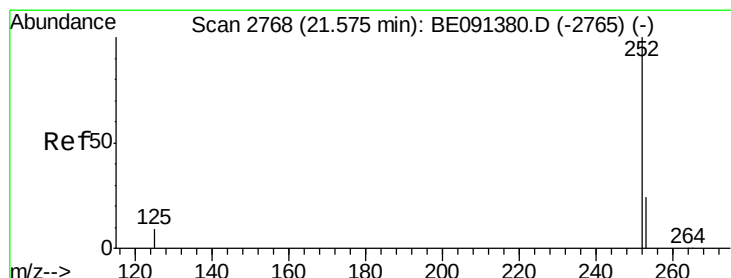
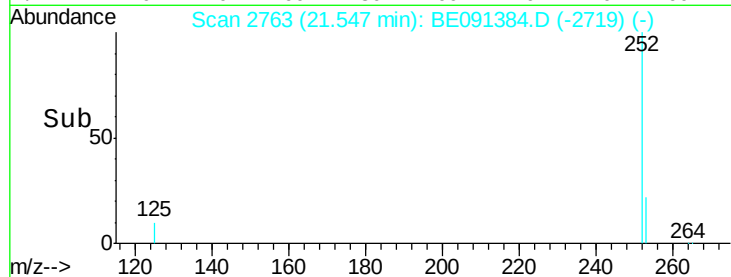
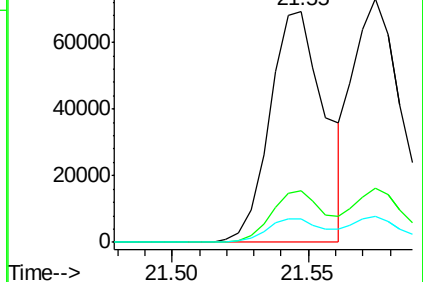
125 10.3 8.3 12.5



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#26

Benzo(k)fluoranthene

Concen: 0.97 ng

RT: 21.57 min Scan# 2769

Delta R.T. -0.00 min

Lab File: BE091384.D

Acq: 2 Feb 2016 19:09

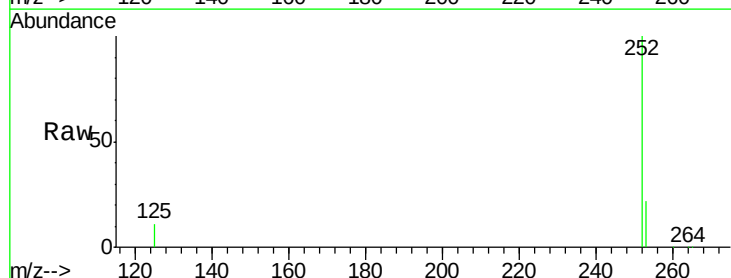
Tgt Ion:252 Resp: 102729

Ion Ratio Lower Upper

252 100

253 22.0 18.1 27.1

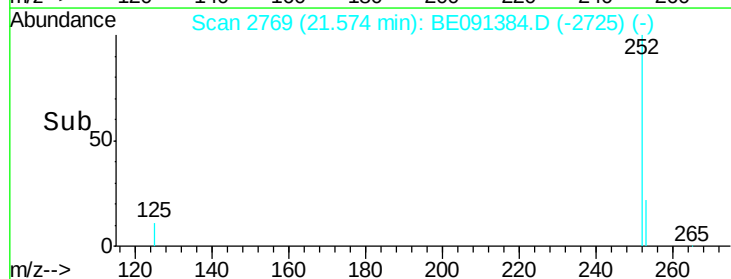
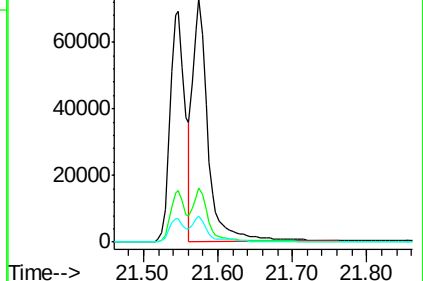
125 10.7 8.2 12.4

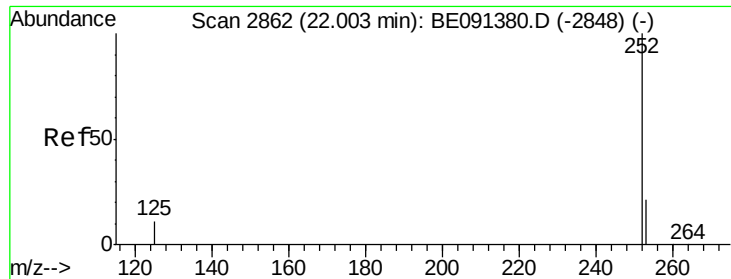


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#27

Benzo(a)pyrene

Concen: 1.05 ng

RT: 22.00 min Scan# 2863

Delta R.T. -0.00 min

Lab File: BE091384.D

Acq: 2 Feb 2016 19:09

Instrument :

BNA_E

ClientSampleId :

ICVBE020216

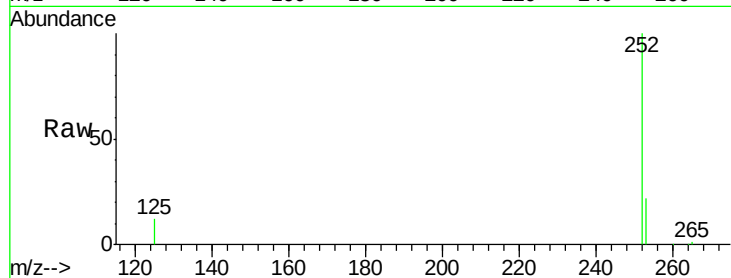
Tot Ion:252 Resp: 90290

Ion Ratio Lower Upper

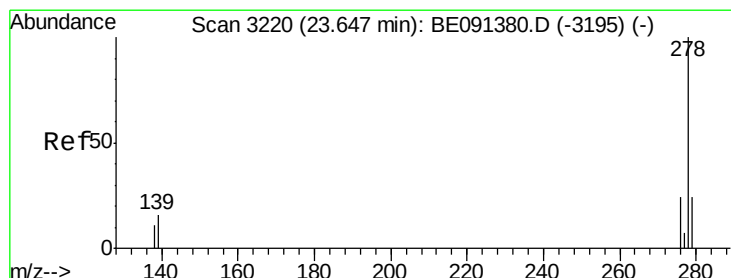
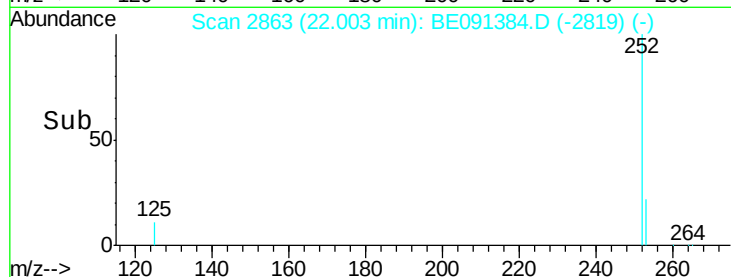
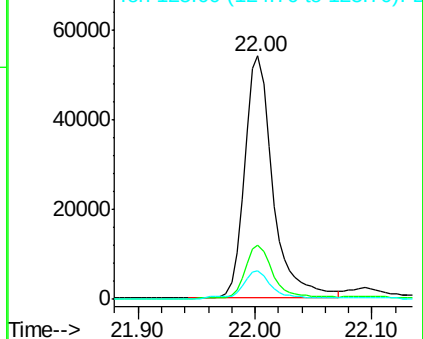
252 100

253 22.3 17.5 26.3

125 11.6 9.4 14.0



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: 1.08 ng

RT: 23.64 min Scan# 3220

Delta R.T. -0.00 min

Lab File: BE091384.D

Acq: 2 Feb 2016 19:09

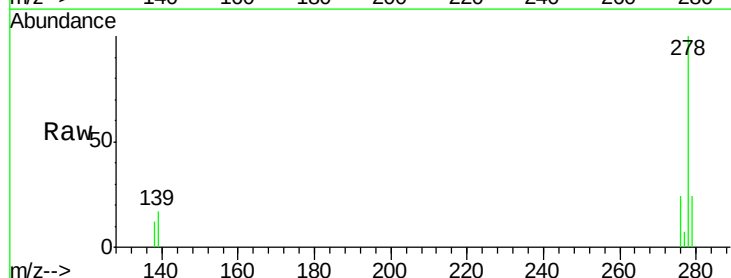
Tgt Ion:278 Resp: 85646

Ion Ratio Lower Upper

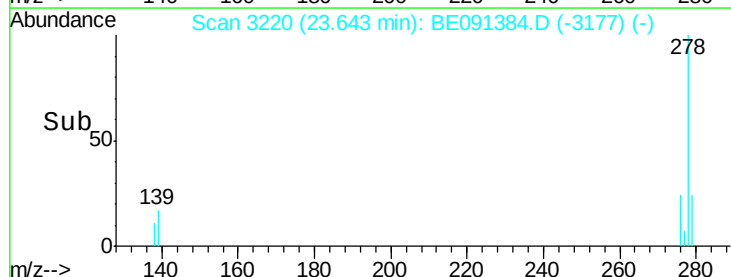
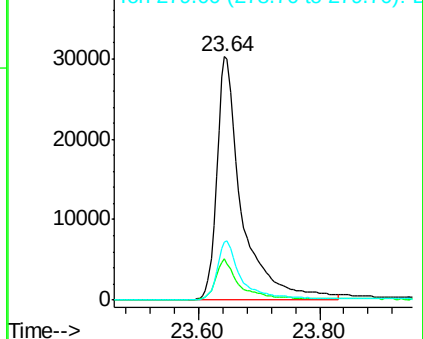
278 100

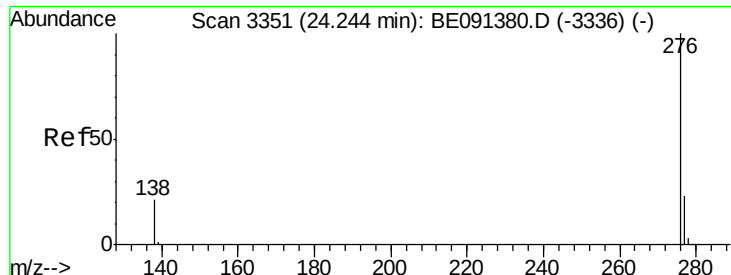
139 16.8 13.0 19.4

279 24.0 19.2 28.8



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





#29

Benzo(a,h,i)perylene

Concen: 1.01 ng

RT: 24.24 min Scan# 3352

Delta R.T. 0.00 min

Lab File: BE091384.D

Acq: 2 Feb 2016 19:09

Instrument :

BNA_E

ClientSampleId :

ICVBE020216

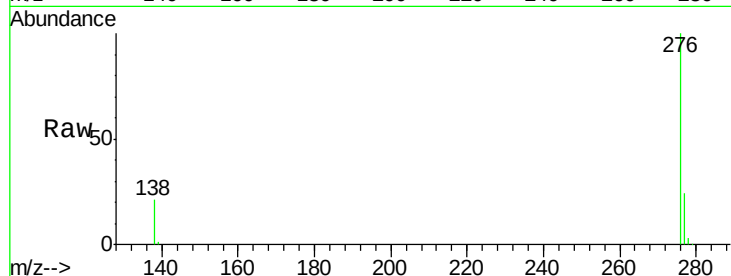
Tot Ion: 276 Resp: 95483

Ion Ratio Lower Upper

276 100

277 23.5 18.9 28.3

138 21.1 17.0 25.6



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

