

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE111716\
 Data File : BE092560.D
 Acq On : 17 Nov 2016 12:24
 Operator : UM/SJ
 Sample : H5636-08DL 10X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 C19023041DL

Quant Time: Nov 18 00:09:27 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE111616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 16 15:43:18 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.14	152	7770	5.00	ng	-0.02
7) Naphthalene-d8	10.93	136	36785	5.00	ng	0.00
12) Acenaphthene-d10	14.80	164	27264	5.00	ng	0.00
18) Phenanthrene-d10	17.56	188	56213	5.00	ng	0.00
24) Chrysene-d12	21.72	240	86086	5.00	ng	0.00
31) Perylene-d12	24.08	264	73975	5.00	ng	-0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.65	112	8231	6.27	ng	-0.03
5) Phenol-d6	7.31	99	6912	3.22	ng	-0.04
8) Nitrobenzene-d5	9.32	82	12265	5.13	ng	-0.05
13) 2,4,6-Tribromophenol	16.28	330	10105	16.52	ng	-0.02
14) 2-Fluorobiphenyl	13.41	172	33381	5.02	ng	-0.02
26) Terphenyl-d14	20.16	244	59826	6.08	ng	-0.02

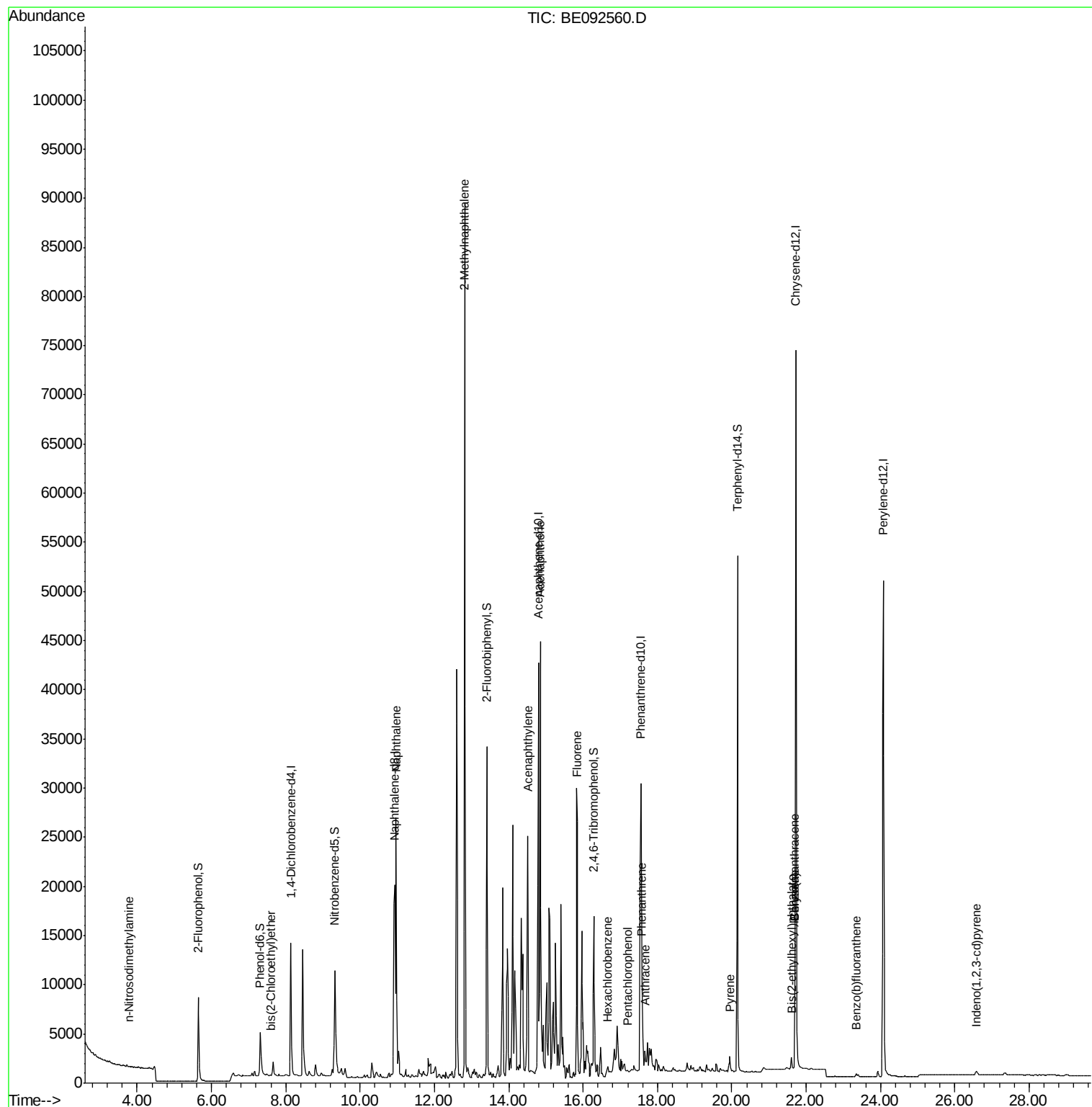
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	3.78	42	28	0.20	ng	# 2
6) bis(2-Chloroethyl)ether	7.59	93	21	0.05	ng	# 15
9) Naphthalene	10.97	128	41351	5.45	ng	98
11) 2-Methylnaphthalene	12.82	142	64977	13.42	ng	94
15) Acenaphthylene	14.51	152	18690	0.49	ng	# 1
16) Acenaphthene	14.85	154	9426	1.52	ng	# 64
17) Fluorene	15.84	166	22396	2.92	ng	# 97
19) Hexachlorobenzene	16.66	284	408	0.18	ng	# 1
20) Pentachlorophenol	17.21	266	55	0.18	ng	# 75
21) Phenanthrene	17.58	178	12848	1.02	ng	# 88
22) Anthracene	17.67	178	2862	0.24	ng	# 82
25) Pyrene	19.95	202	2093	0.03	ng	# 72
27) Benzo(a)anthracene	21.70	228	1858	0.12	ng	# 50
28) Chrysene	21.70	228	1978	0.03	ng	# 76
29) Bis(2-ethylhexyl)phthalate	21.61	149	1603	0.40	ng	# 28
30) Indeno(1,2,3-cd)pyrene	26.58	276	1030	0.06	ng	98
32) Benzo(b)fluoranthene	23.36	252	471	0.03	ng	# 19

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.14 min Scan# 575

Delta R.T. -0.02 min

Lab File: BE092560.D

Acq: 17 Nov 2016 12:24

Instrument :

BNA_E

ClientSampleId :

C19023041DL

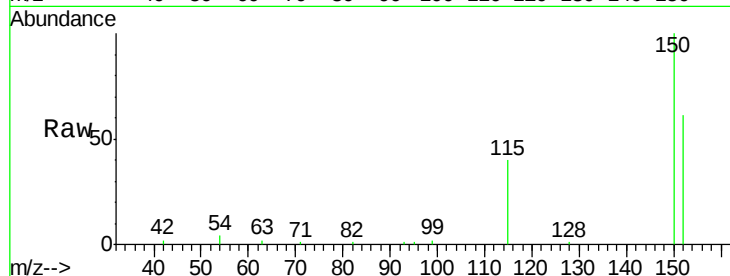
Tgt Ion:152 Resp: 7770

Ion Ratio Lower Upper

152 100

150 162.9 106.0 159.0#

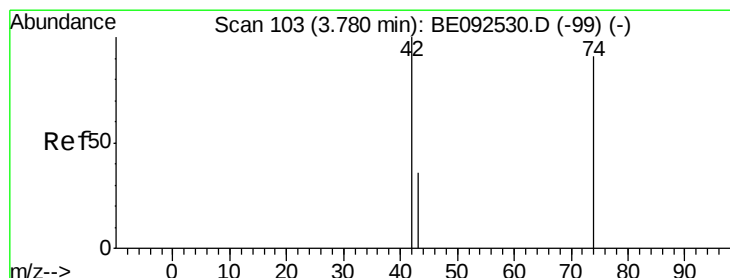
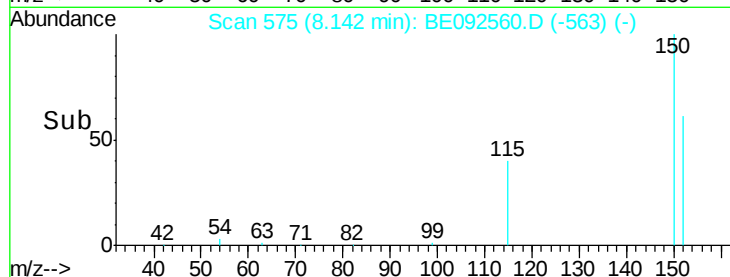
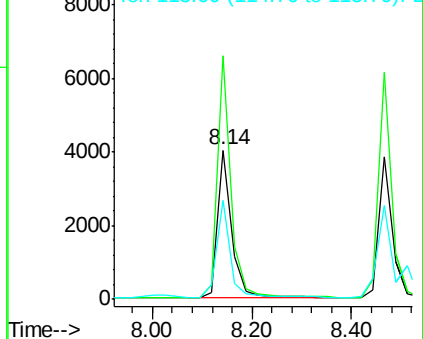
115 65.8 31.2 46.8#



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



#3

n-Nitrosodimethylamine

Concen: 0.20 ng

RT: 3.78 min Scan# 103

Delta R.T. 0.00 min

Lab File: BE092560.D

Acq: 17 Nov 2016 12:24

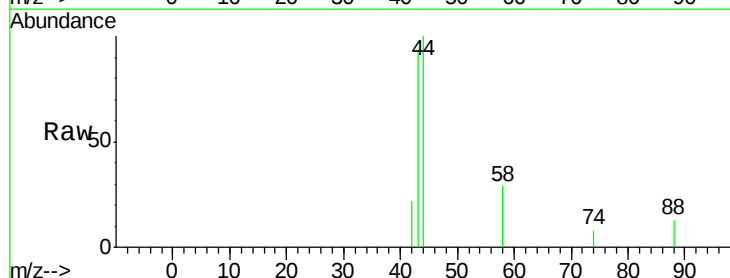
Tgt Ion: 42 Resp: 28

Ion Ratio Lower Upper

42 100

74 0.0 86.0 129.0#

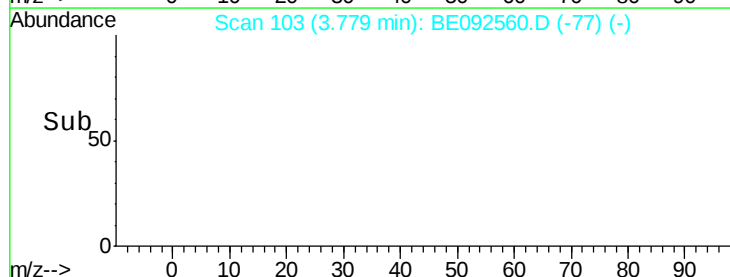
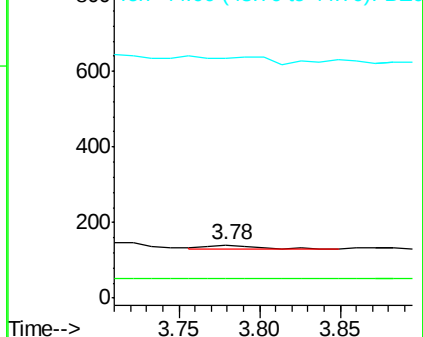
44 0.0 5.1 7.7#

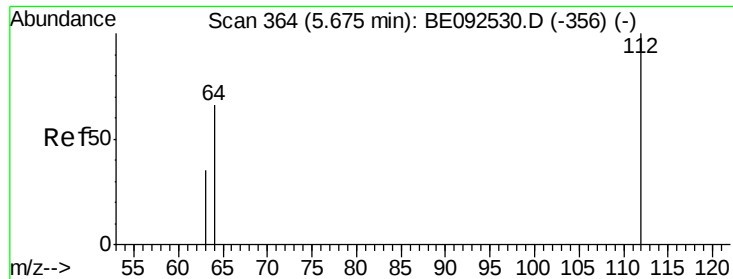


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0





#4

2-Fluorophenol

Concen: 6.27 ng

RT: 5.65 min Scan# 359

Delta R.T. -0.03 min

Lab File: BE092560.D

Acq: 17 Nov 2016 12:24

Instrument :

BNA_E

ClientSampleId :

C19023041DL

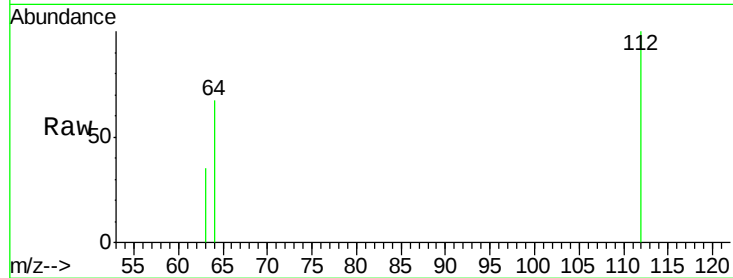
Tgt Ion: 112 Resp: 8231

Ion Ratio Lower Upper

112 100

64 67.8 53.5 80.3

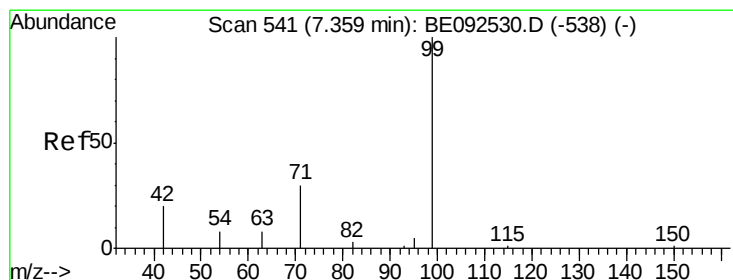
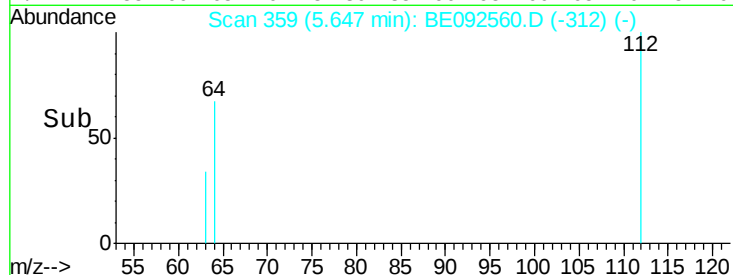
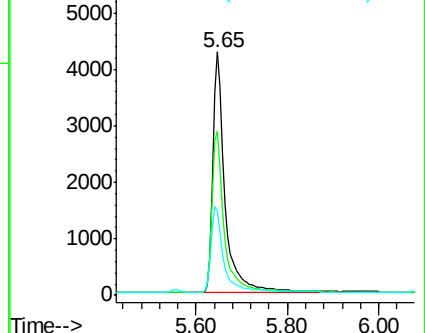
63 36.2 27.9 41.9



Abundance Ion 112.00 (111.70 to 112.70): BE092560.D (-312) (-)

Ion 64.00 (63.70 to 64.70): BE092560.D (-312) (-)

Ion 63.00 (62.70 to 63.70): BE092560.D (-312) (-)



#5

Phenol-d6

Concen: 3.22 ng

RT: 7.31 min Scan# 539

Delta R.T. -0.04 min

Lab File: BE092560.D

Acq: 17 Nov 2016 12:24

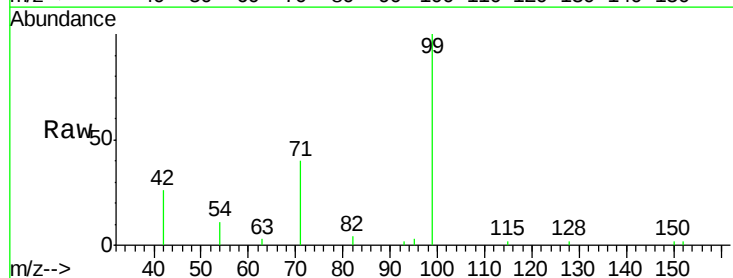
Tgt Ion: 99 Resp: 6912

Ion Ratio Lower Upper

99 100

42 22.0 16.0 24.0

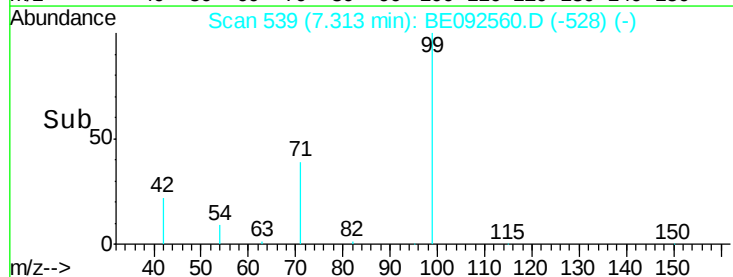
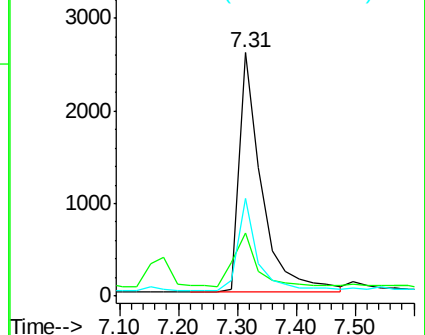
71 34.3 30.6 45.8

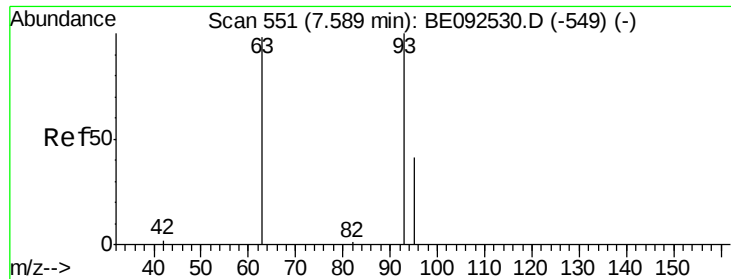


Abundance Ion 99.00 (98.70 to 99.70): BE092560.D (-528) (-)

Ion 42.00 (41.70 to 42.70): BE092560.D (-528) (-)

Ion 71.00 (70.70 to 71.70): BE092560.D (-528) (-)





#6

bis(2-Chloroethyl)ether

Concen: 0.05 ng

RT: 7.59 min Scan# 551

Delta R.T. 0.00 min

Lab File: BE092560.D

Acq: 17 Nov 2016 12:24

Instrument :

BNA_E

ClientSampleId :

C19023041DL

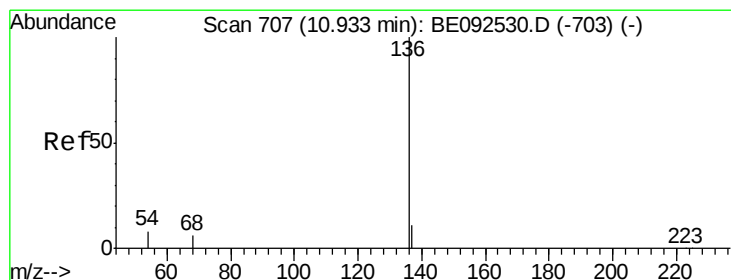
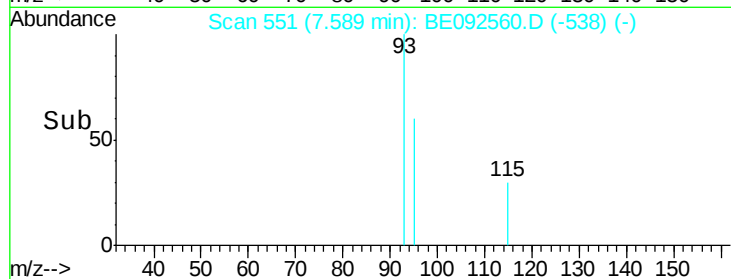
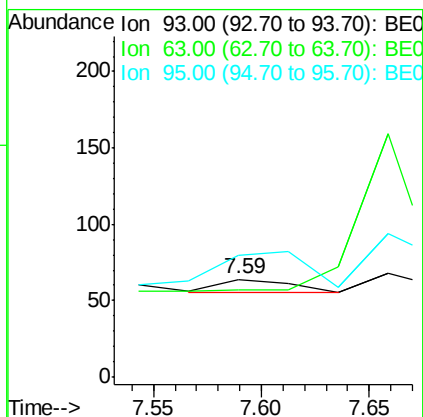
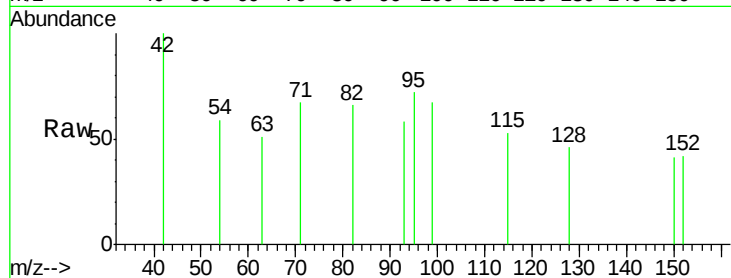
Tgt Ion: 93 Resp: 21

Ion Ratio Lower Upper

93 100

63 0.0 71.6 107.4#

95 0.0 24.0 36.0#



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.93 min Scan# 707

Delta R.T. -0.00 min

Lab File: BE092560.D

Acq: 17 Nov 2016 12:24

Tgt Ion: 136 Resp: 36785

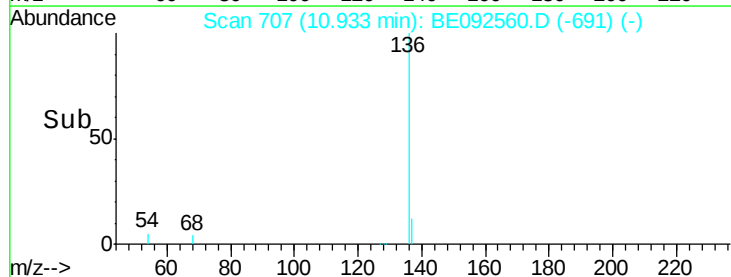
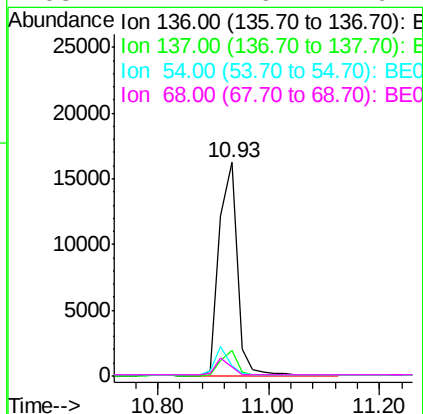
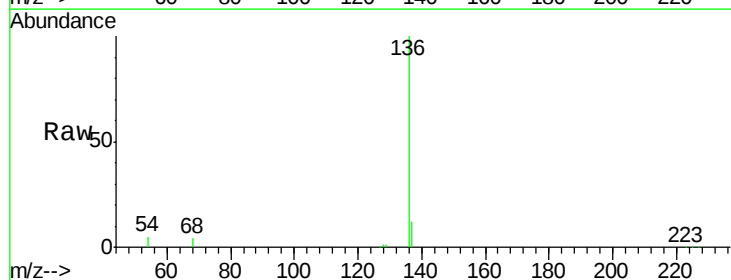
Ion Ratio Lower Upper

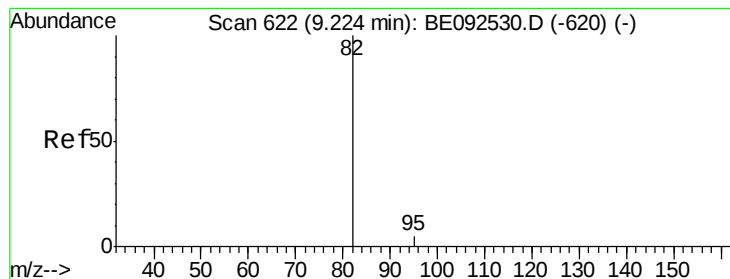
136 100

137 12.1 8.2 12.4

54 5.1 9.6 14.4#

68 4.2 6.7 10.1#





#8

Nitrobenzene-d5

Concen: 5.13 ng

RT: 9.32 min Scan# 626

Delta R.T. -0.05 min

Lab File: BE092560.D

Acq: 17 Nov 2016 12:24

Instrument :

BNA_E

ClientSampleId :

C19023041DL

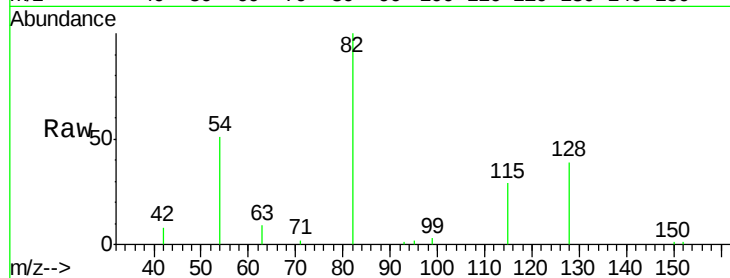
Tgt Ion: 82 Resp: 12265

Ion Ratio Lower Upper

82 100

128 38.7 39.0 58.4#

54 50.5 44.8 67.2



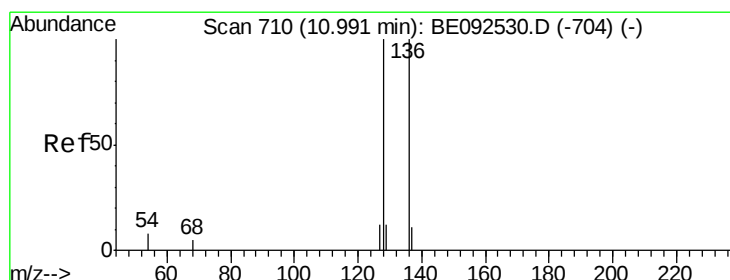
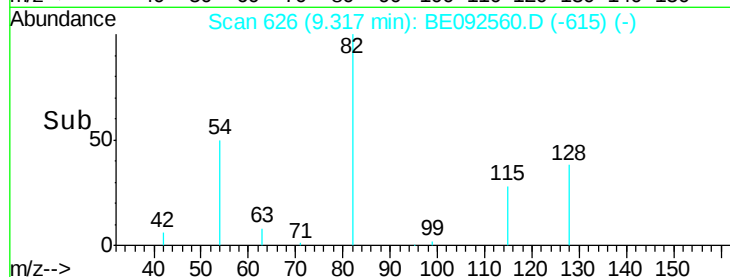
Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0

9.32

Time-->



#9

Naphthalene

Concen: 5.45 ng

RT: 10.97 min Scan# 709

Delta R.T. -0.02 min

Lab File: BE092560.D

Acq: 17 Nov 2016 12:24

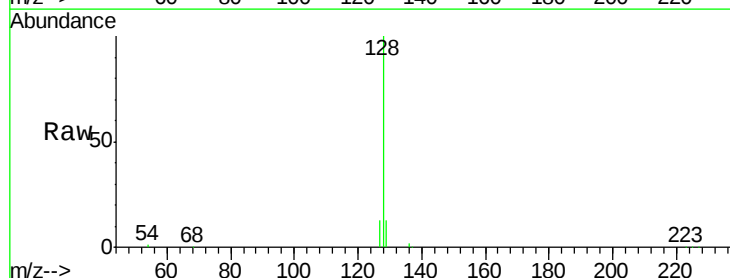
Tgt Ion: 128 Resp: 41351

Ion Ratio Lower Upper

128 100

129 13.3 11.2 16.8

127 13.4 11.6 17.4



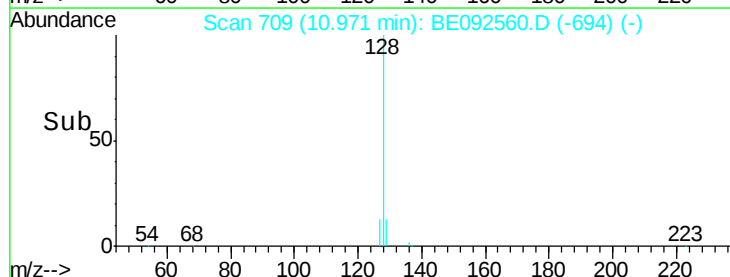
Abundance Ion 128.00 (127.70 to 128.70): E

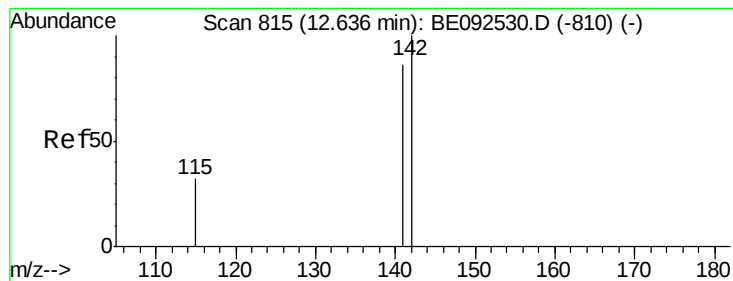
Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

10.97

Time-->





#11

2-Methylnaphthalene

Concen: 13.42 ng

RT: 12.82 min Scan# 831

Delta R.T. 0.18 min

Lab File: BE092560.D

Acq: 17 Nov 2016 12:24

Instrument :

BNA_E

ClientSampleID :

C19023041DL

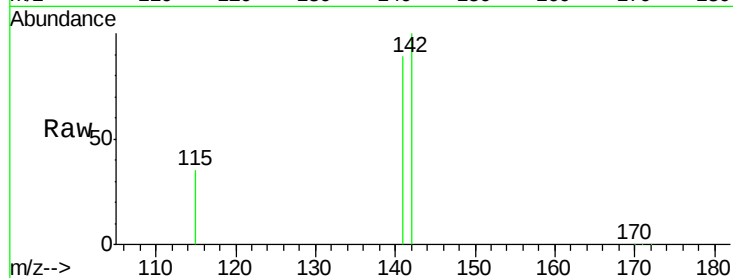
Tgt Ion:142 Resp: 64977

Ion Ratio Lower Upper

142 100

141 88.8 73.7 110.5

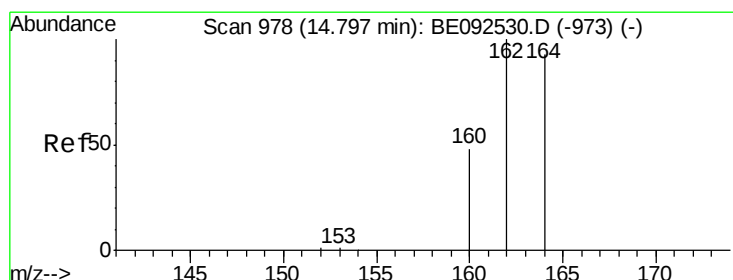
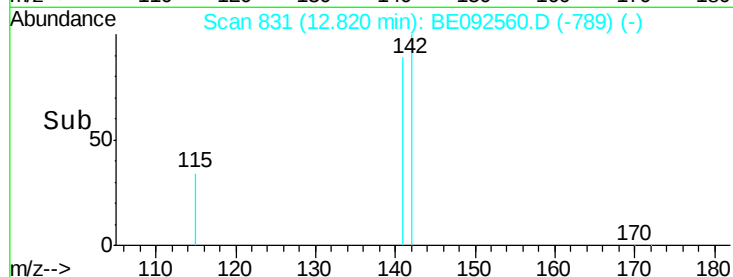
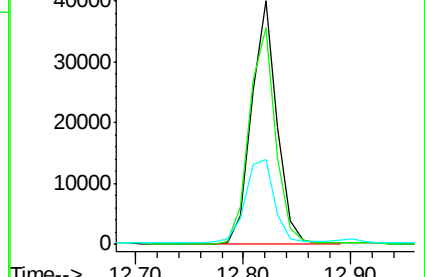
115 34.9 34.0 51.0



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



#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.80 min Scan# 979

Delta R.T. 0.00 min

Lab File: BE092560.D

Acq: 17 Nov 2016 12:24

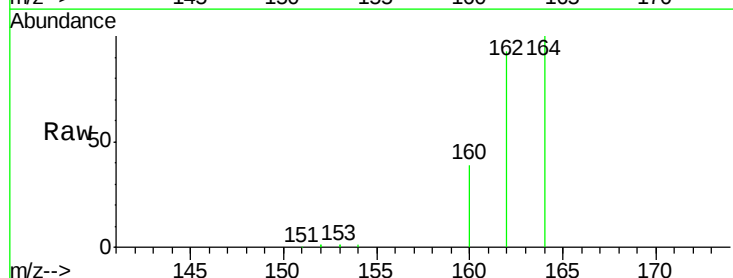
Tgt Ion:164 Resp: 27264

Ion Ratio Lower Upper

164 100

162 92.9 71.4 107.0

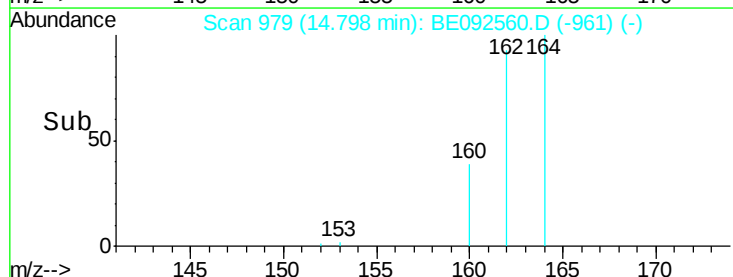
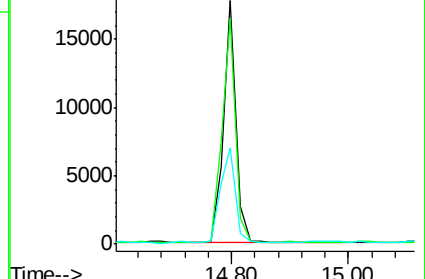
160 39.4 27.4 41.2

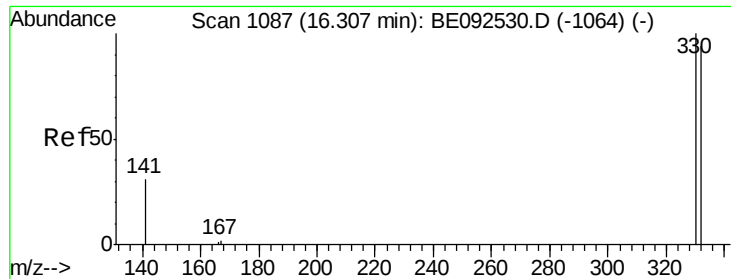


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

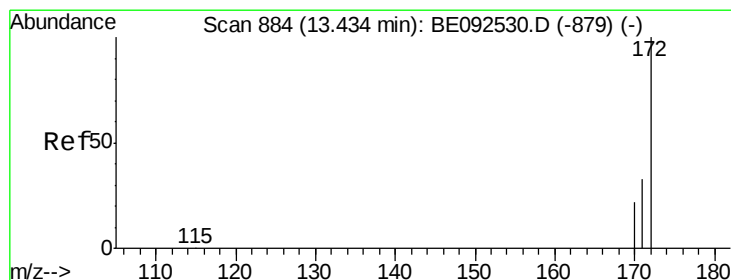
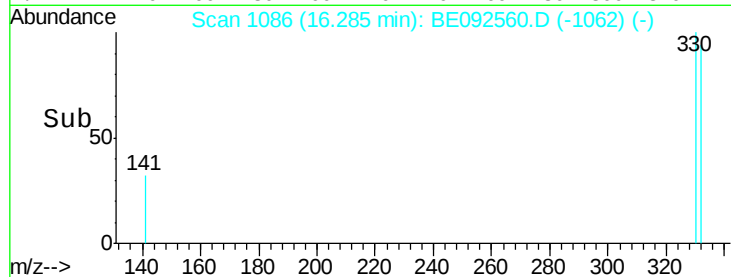
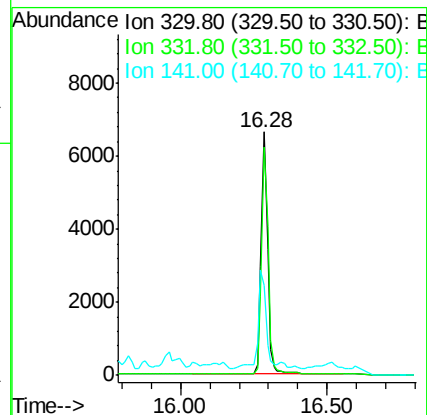
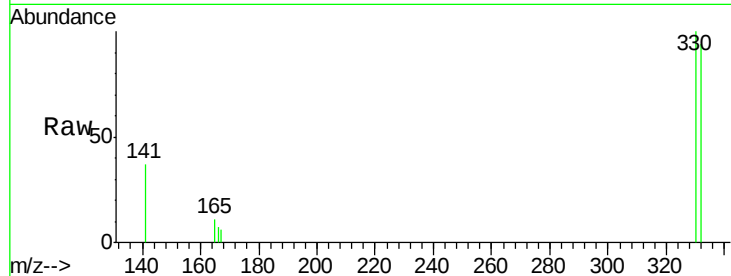




#13
 2,4,6-Tribromophenol
 Concen: 16.52 ng
 RT: 16.28 min Scan# 1086
 Delta R.T. -0.02 min
 Lab File: BE092560.D
 Acq: 17 Nov 2016 12:24

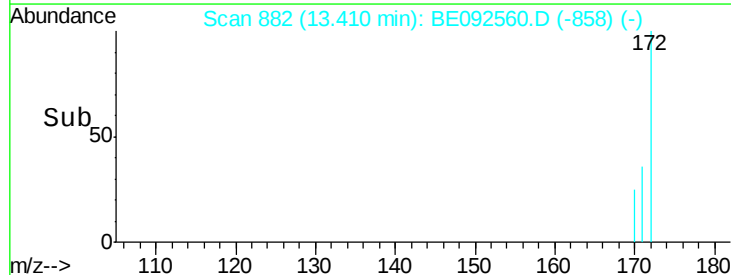
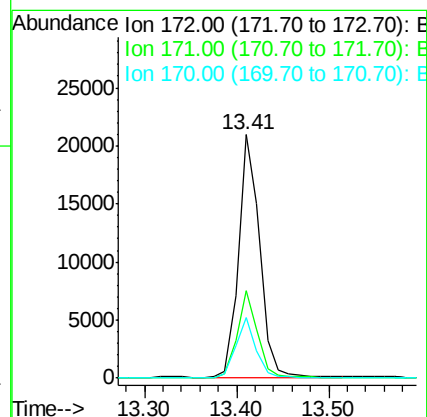
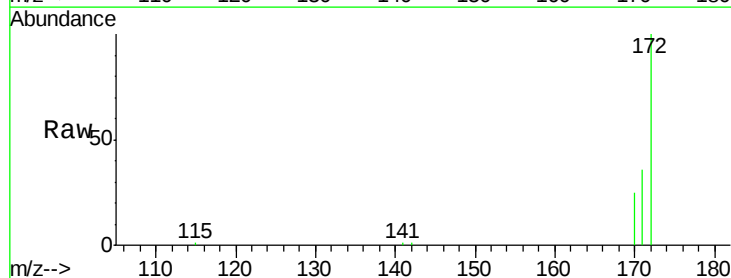
Instrument :
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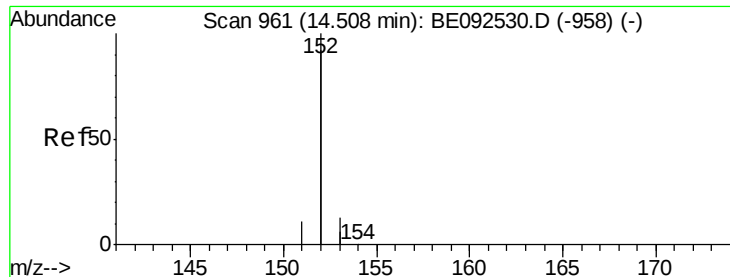
Tgt Ion:330 Resp: 10105
 Ion Ratio Lower Upper
 330 100
 332 96.6 75.4 113.0
 141 49.5 31.0 46.6#



#14
 2-Fluorobiphenyl
 Concen: 5.02 ng
 RT: 13.41 min Scan# 882
 Delta R.T. -0.02 min
 Lab File: BE092560.D
 Acq: 17 Nov 2016 12:24

Tgt Ion:172 Resp: 33381
 Ion Ratio Lower Upper
 172 100
 171 35.8 30.1 45.1
 170 24.9 21.8 32.6





#15

Acenaphthylene

Concen: 0.49 ng

RT: 14.51 min Scan# 962

Delta R.T. 0.00 min

Lab File: BE092560.D

Acq: 17 Nov 2016 12:24

Instrument :

BNA_E

ClientSampleId :

C19023041DL

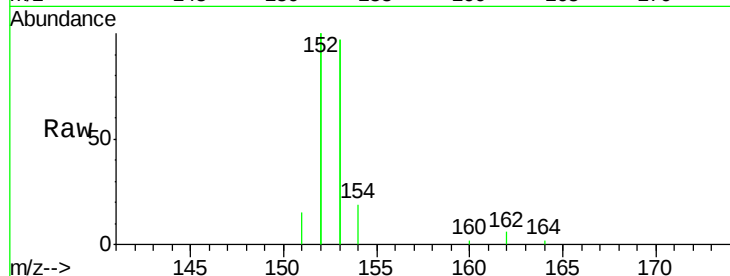
Tgt Ion:152 Resp: 18690

Ion Ratio Lower Upper

152 100

151 7.6 3.9 5.9#

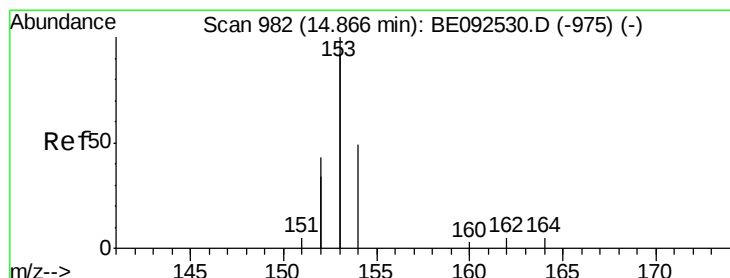
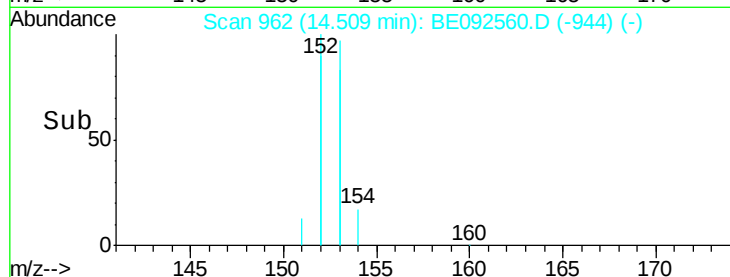
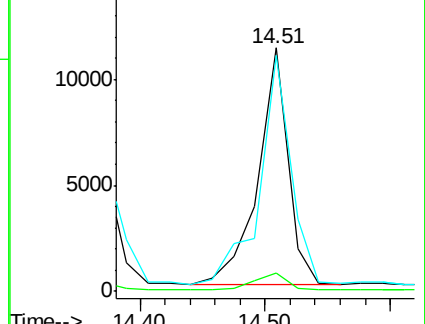
153 99.9 10.4 15.6#



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



#16

Acenaphthene

Concen: 1.52 ng

RT: 14.85 min Scan# 982

Delta R.T. -0.02 min

Lab File: BE092560.D

Acq: 17 Nov 2016 12:24

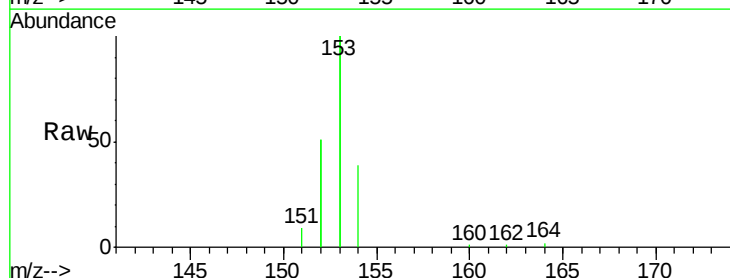
Tgt Ion:154 Resp: 9426

Ion Ratio Lower Upper

154 100

153 506.5 350.8 526.2

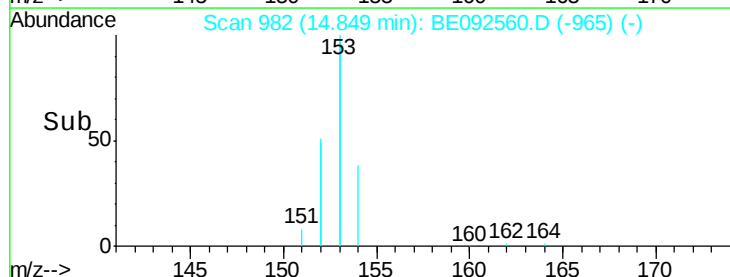
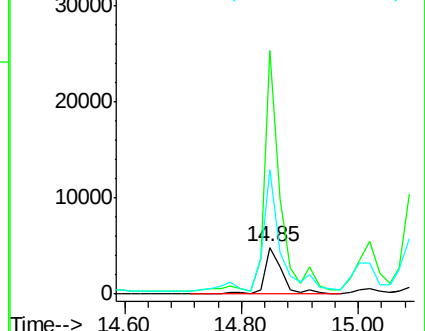
152 301.8 171.1 256.7#

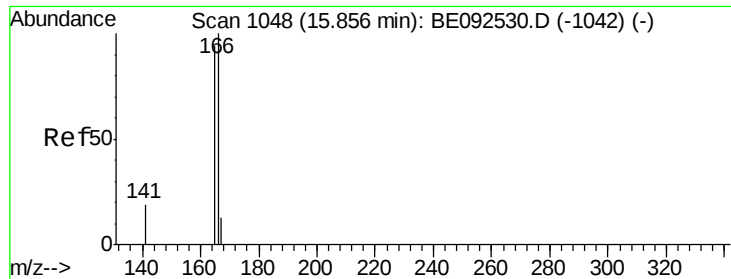


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

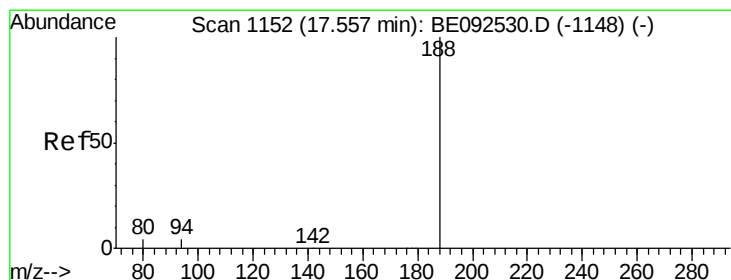
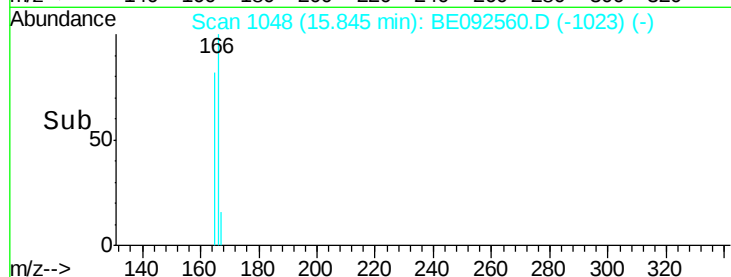
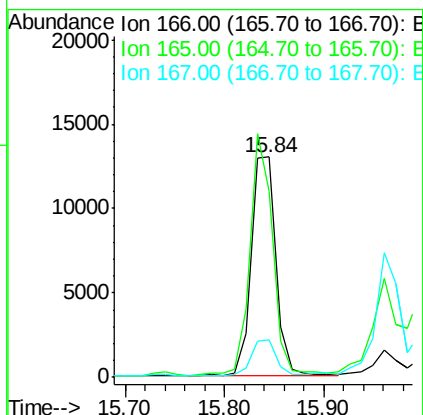
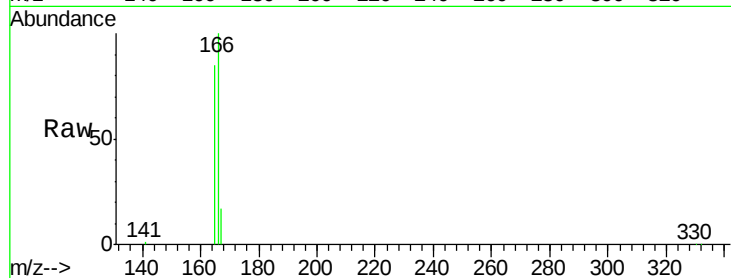




#17
Fluorene
 Concen: 2.92 ng
 RT: 15.84 min Scan# 1048
 Delta R.T. -0.01 min
 Lab File: BE092560.D
 Acq: 17 Nov 2016 12:24

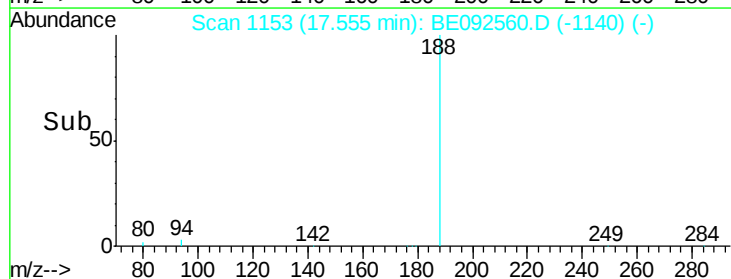
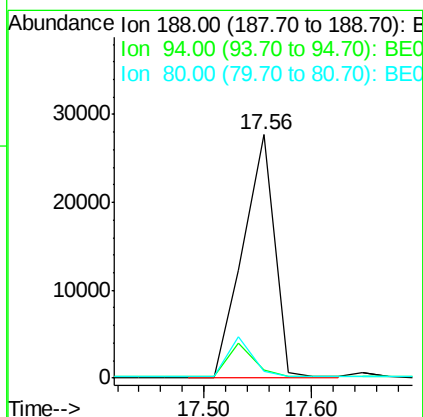
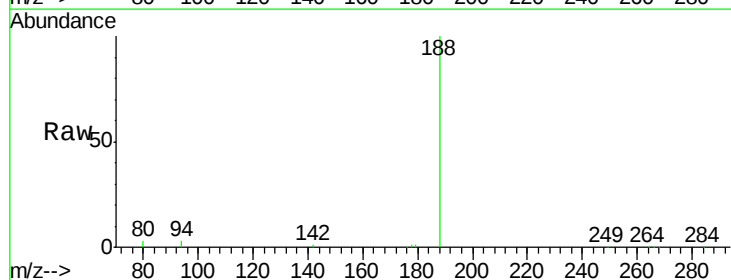
Instrument :
 BNA_E
 ClientSampleId :
 C19023041DL

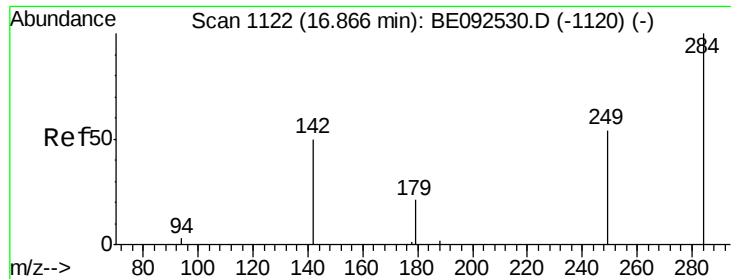
Tgt Ion:166 Resp: 22396
 Ion Ratio Lower Upper
 166 100
 165 100.5 78.2 117.4
 167 17.2 11.0 16.4#



#18
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 17.56 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: BE092560.D
 Acq: 17 Nov 2016 12:24

Tgt Ion:188 Resp: 56213
 Ion Ratio Lower Upper
 188 100
 94 3.2 3.2 4.8
 80 2.7 2.6 3.8





#19

Hexachlorobenzene

Concen: 0.18 ng

RT: 16.66 min Scan# 1114

Delta R.T. -0.21 min

Lab File: BE092560.D

Acq: 17 Nov 2016 12:24

Instrument :

BNA_E

ClientSampleId :

C19023041DL

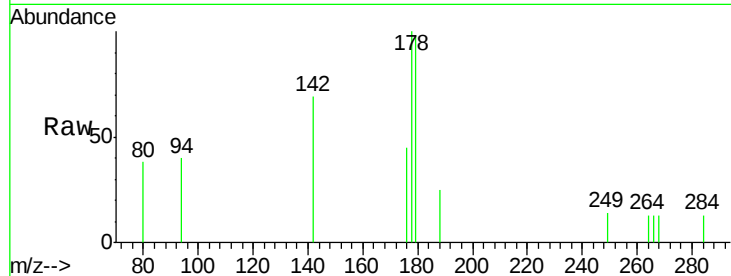
Tgt Ion:284 Resp: 408

Ion Ratio Lower Upper

284 100

142 359.6 29.1 43.7#

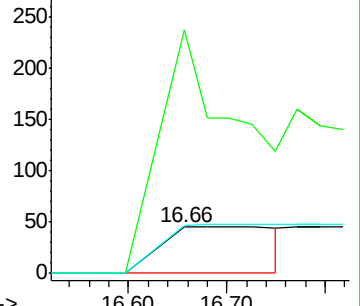
249 0.0 27.9 41.9#



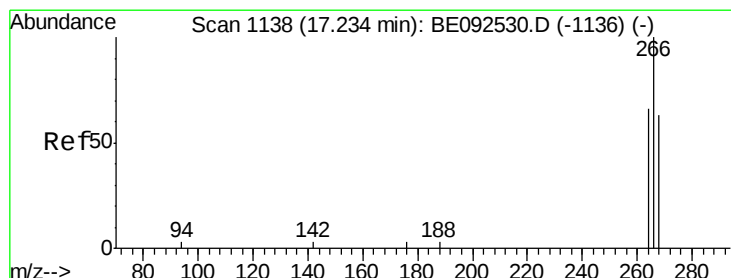
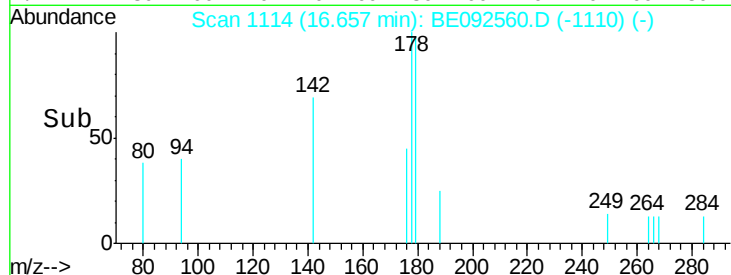
Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



Time-->



#20

Pentachlorophenol

Concen: 0.18 ng

RT: 17.21 min Scan# 1138

Delta R.T. -0.02 min

Lab File: BE092560.D

Acq: 17 Nov 2016 12:24

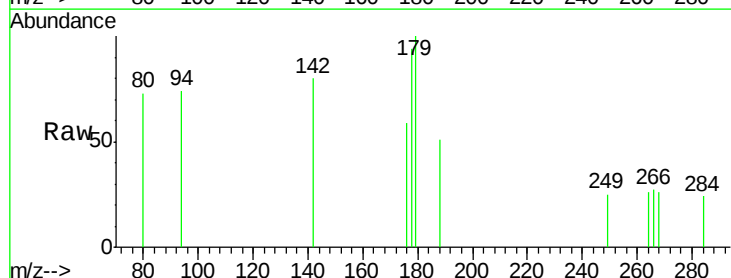
Tgt Ion:266 Resp: 55

Ion Ratio Lower Upper

266 100

268 96.2 62.5 93.7#

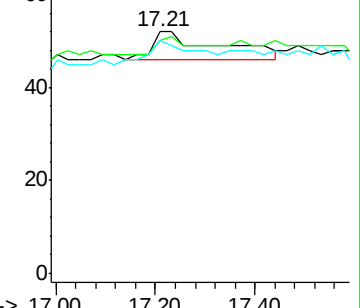
264 96.2 57.2 85.8#



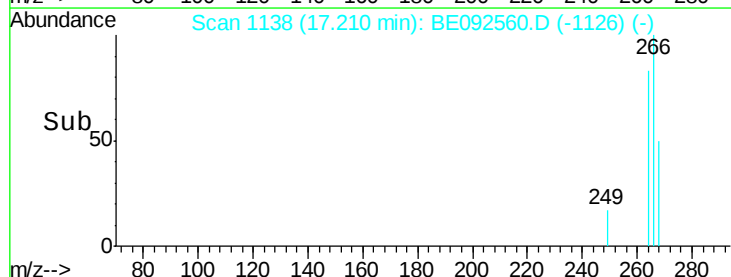
Abundance Ion 265.70 (265.40 to 266.40): E

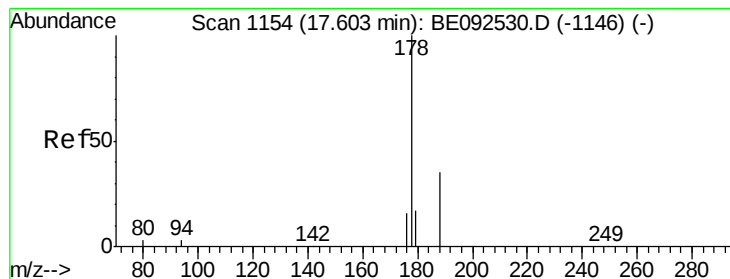
Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E



Time-->





#21

Phenanthrene

Concen: 1.02 ng

RT: 17.58 min Scan# 1154

Delta R.T. -0.02 min

Lab File: BE092560.D

Acq: 17 Nov 2016 12:24

Instrument :

BNA_E

ClientSampleId :

C19023041DL

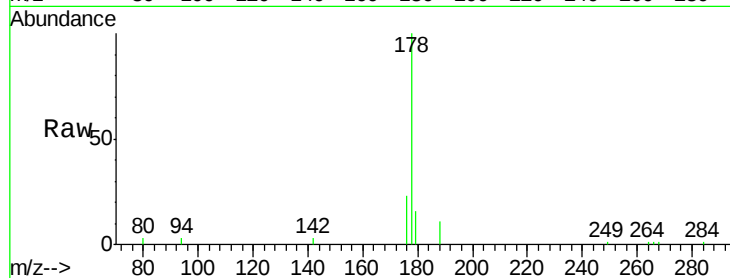
Tgt Ion:178 Resp: 12848

Ion Ratio Lower Upper

178 100

176 20.4 15.8 23.8

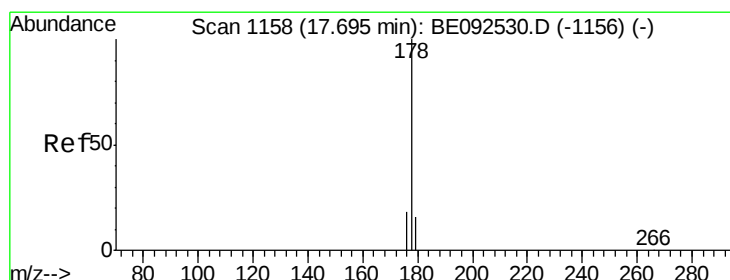
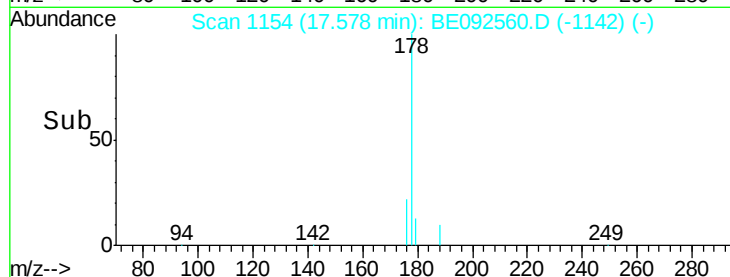
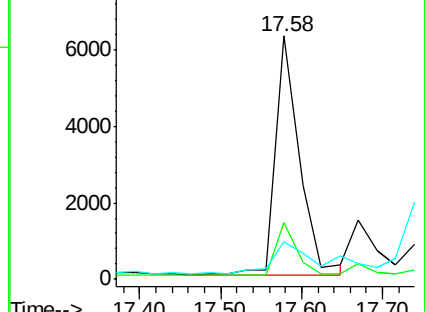
179 30.8 16.0 24.0#



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



#22

Anthracene

Concen: 0.24 ng

RT: 17.67 min Scan# 1158

Delta R.T. -0.02 min

Lab File: BE092560.D

Acq: 17 Nov 2016 12:24

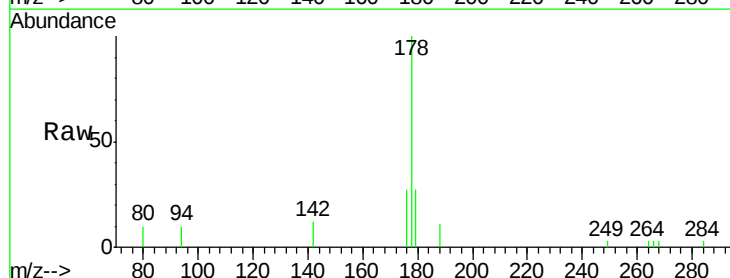
Tgt Ion:178 Resp: 2862

Ion Ratio Lower Upper

178 100

176 20.1 15.0 22.4

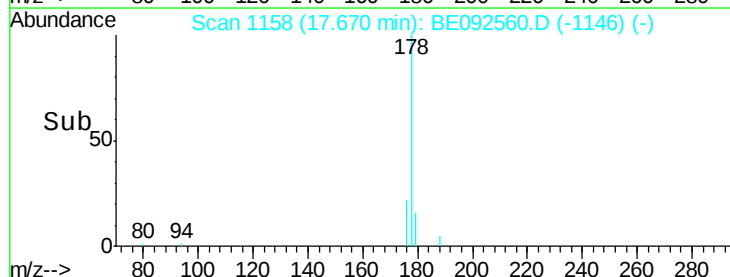
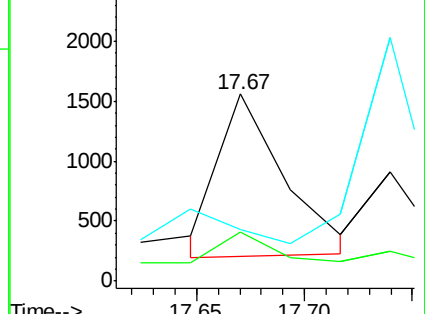
179 0.0 12.2 18.2#

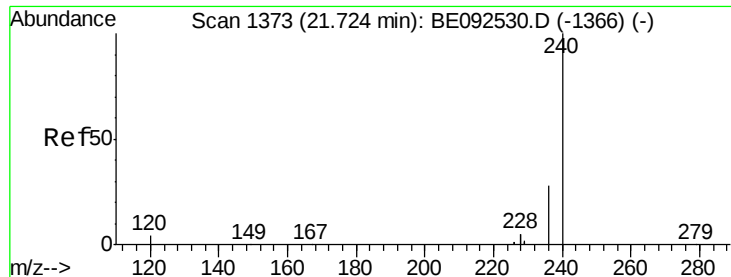


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.72 min Scan# 1374

Delta R.T. 0.00 min

Lab File: BE092560.D

Acq: 17 Nov 2016 12:24

Instrument :

BNA_E

ClientSampleId :

C19023041DL

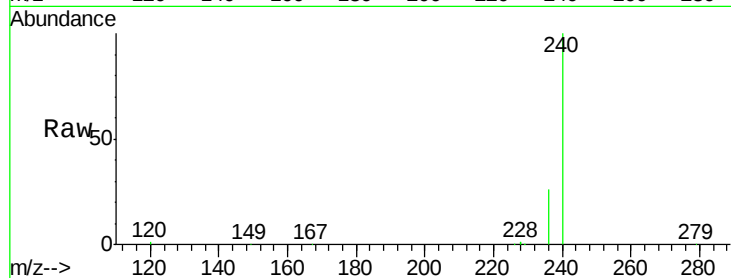
Tgt Ion:240 Resp: 86086

Ion Ratio Lower Upper

240 100

120 1.3 2.6 4.0#

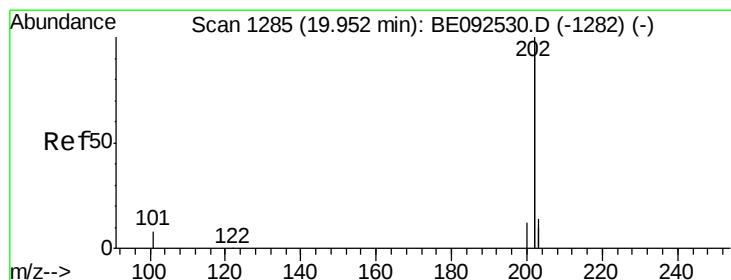
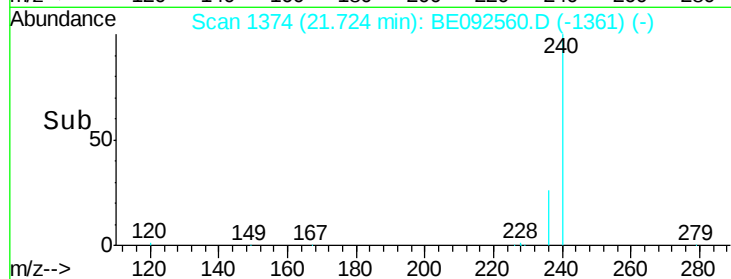
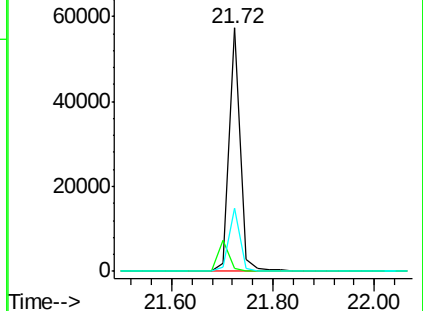
236 25.7 24.6 37.0



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



#25

Pyrene

Concen: 0.03 ng

RT: 19.95 min Scan# 1286

Delta R.T. -0.00 min

Lab File: BE092560.D

Acq: 17 Nov 2016 12:24

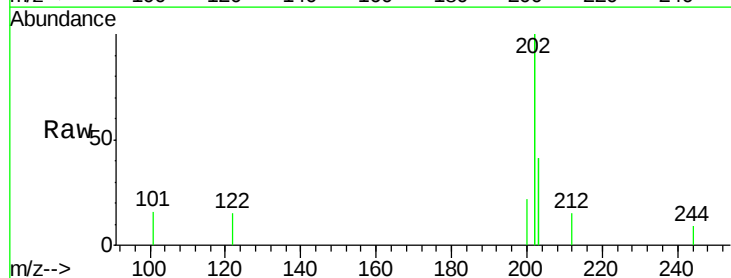
Tgt Ion:202 Resp: 2093

Ion Ratio Lower Upper

202 100

200 8.7 4.2 6.4#

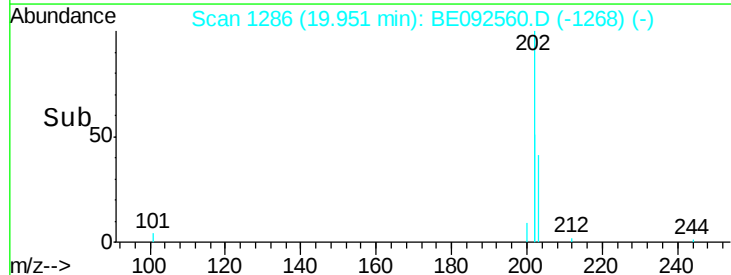
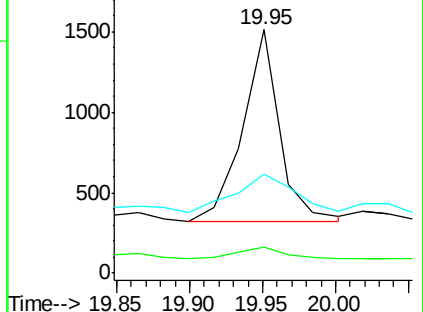
203 32.2 13.9 20.9#

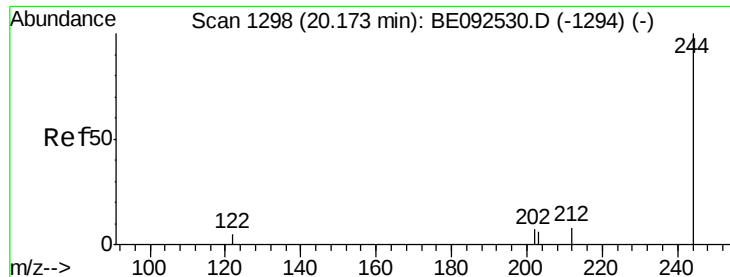


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#26

Terphenyl-d14

Concen: 6.08 ng

RT: 20.16 min Scan# 1298

Delta R.T. -0.02 min

Lab File: BE092560.D

Acq: 17 Nov 2016 12:24

Instrument :

BNA_E

ClientSampleId :

C19023041DL

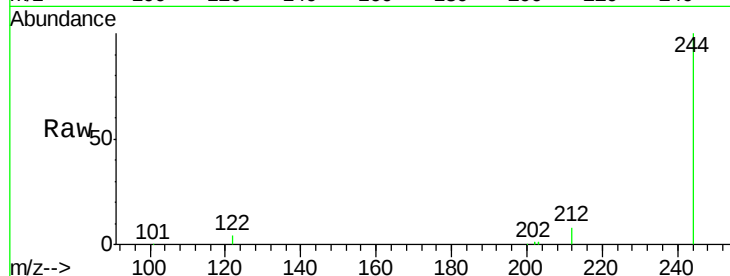
Tgt Ion:244 Resp: 59826

Ion Ratio Lower Upper

244 100

212 8.3 6.7 10.1

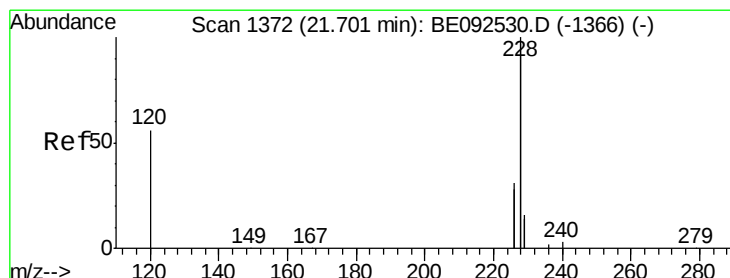
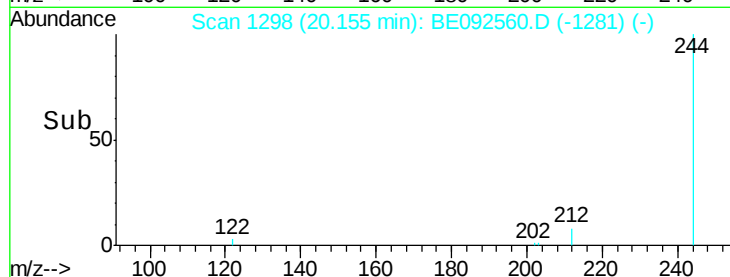
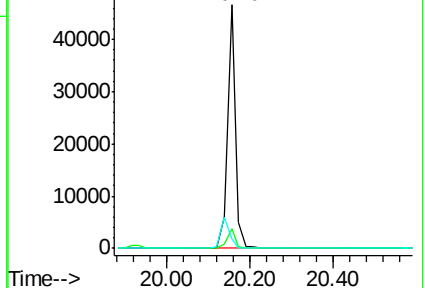
122 3.6 3.6 5.4



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



#27

Benzo(a)anthracene

Concen: 0.12 ng

RT: 21.70 min Scan# 1373

Delta R.T. 0.00 min

Lab File: BE092560.D

Acq: 17 Nov 2016 12:24

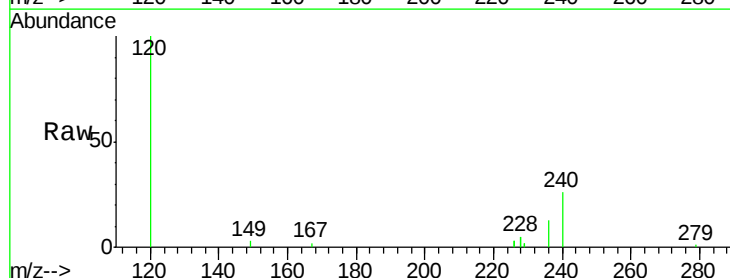
Tgt Ion:228 Resp: 1858

Ion Ratio Lower Upper

228 100

226 50.1 23.6 35.4#

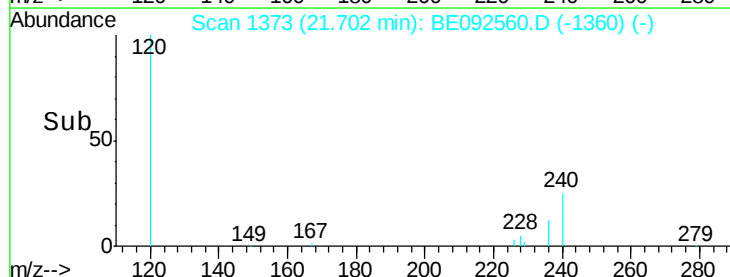
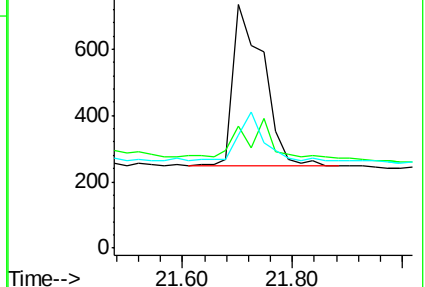
229 46.6 13.3 19.9#

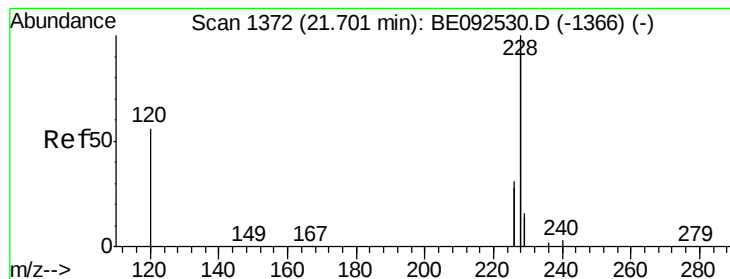


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#28

Chrysene

Concen: 0.03 ng

RT: 21.70 min Scan# 1373

Delta R.T. -0.07 min

Lab File: BE092560.D

Acq: 17 Nov 2016 12:24

Instrument :

BNA_E

ClientSampleId :

C19023041DL

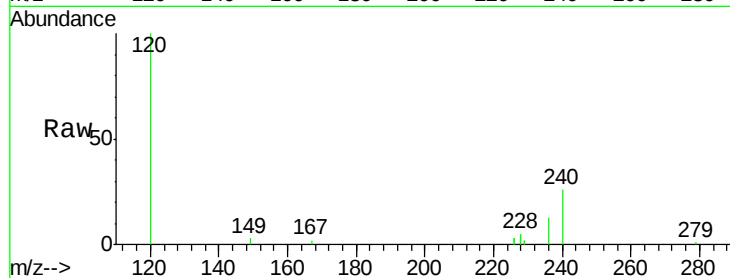
Tgt Ion: 228 Resp: 1978

Ion Ratio Lower Upper

228 100

226 50.1 36.3 54.5

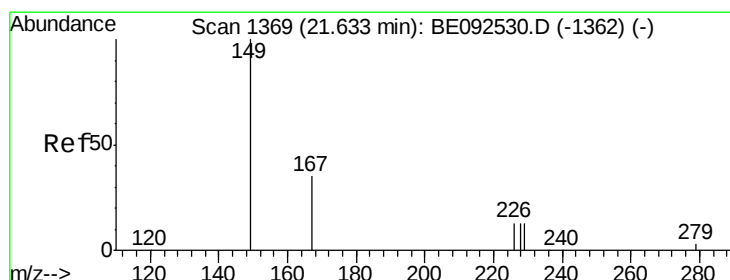
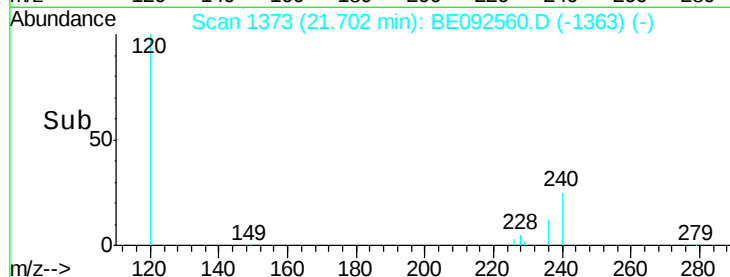
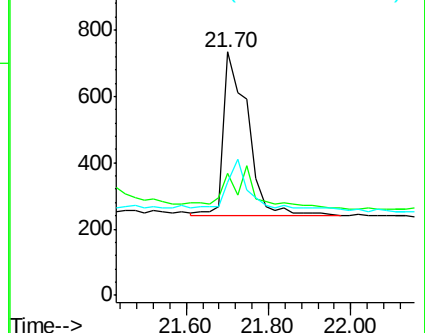
229 46.6 10.6 16.0#



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



#29

Bis(2-ethylhexyl)phthalate

Concen: 0.40 ng

RT: 21.61 min Scan# 1369

Delta R.T. -0.02 min

Lab File: BE092560.D

Acq: 17 Nov 2016 12:24

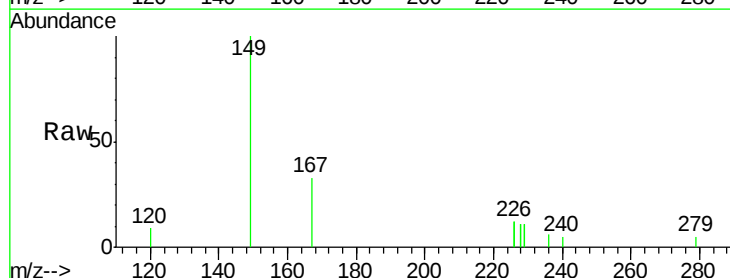
Tgt Ion: 149 Resp: 1603

Ion Ratio Lower Upper

149 100

167 65.9 16.0 24.0#

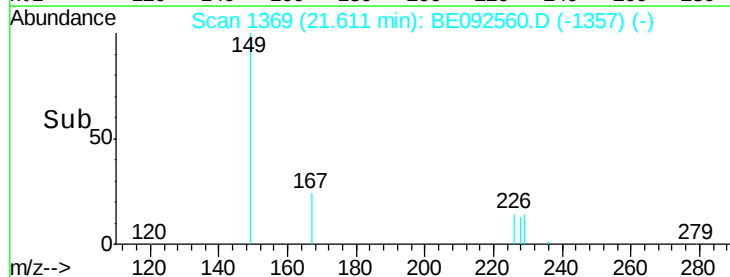
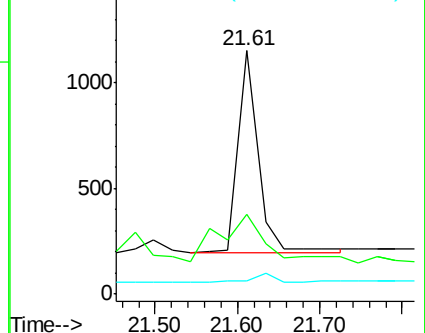
279 0.0 16.0 24.0#

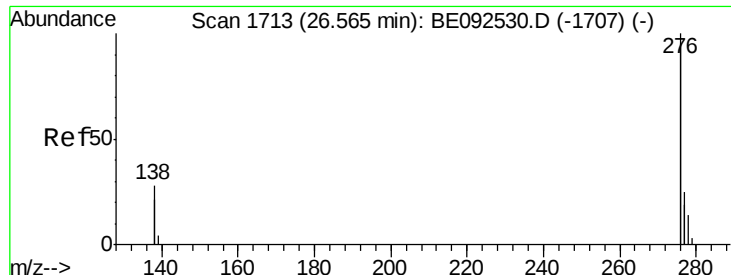


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#30

Indeno(1,2,3-cd)pyrene

Concen: 0.06 ng

RT: 26.58 min Scan# 1715

Delta R.T. 0.02 min

Lab File: BE092560.D

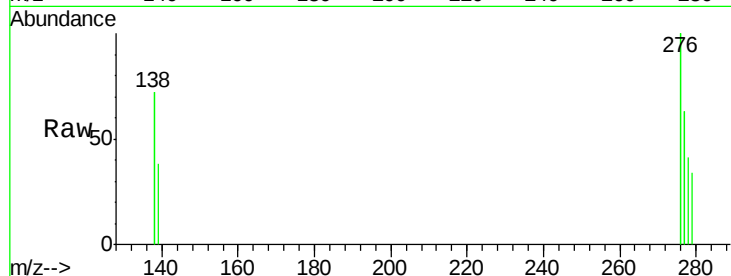
Acq: 17 Nov 2016 12:24

Instrument :

BNA_E

ClientSampleId :

C19023041DL



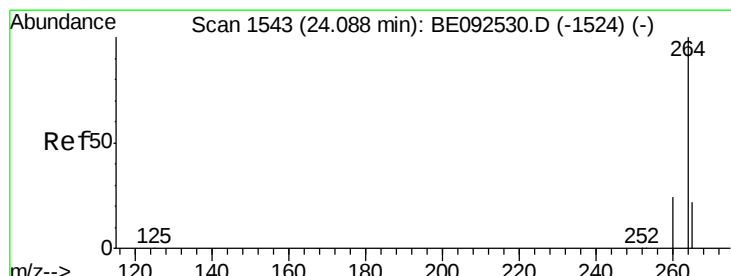
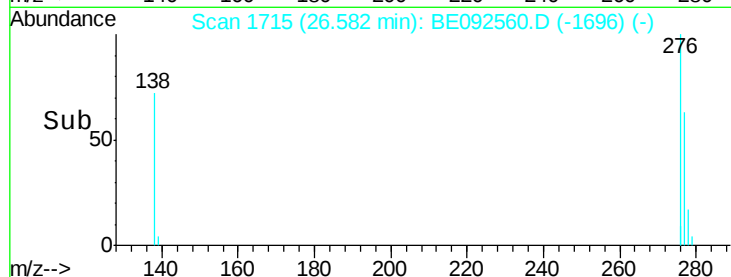
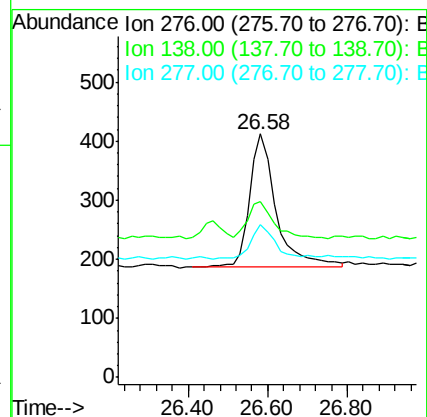
Tgt Ion:276 Resp: 1030

Ion Ratio Lower Upper

276 100

138 26.8 20.3 30.5

277 25.4 19.7 29.5



#31

Perylene-d12

Concen: 5.00 ng

RT: 24.08 min Scan# 1543

Delta R.T. -0.01 min

Lab File: BE092560.D

Acq: 17 Nov 2016 12:24

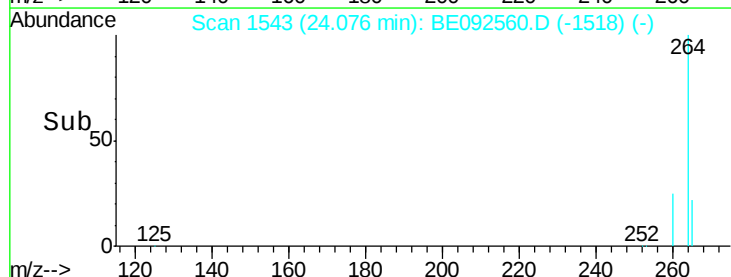
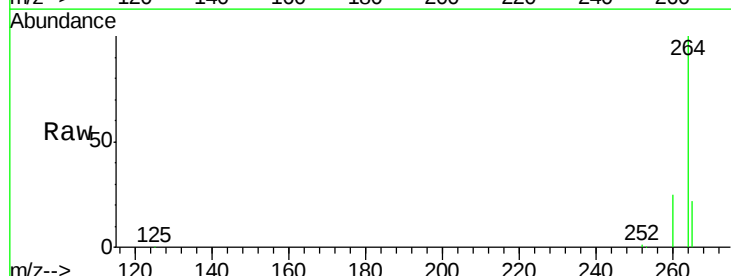
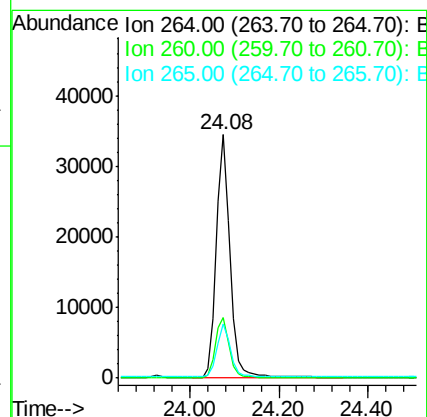
Tgt Ion:264 Resp: 73975

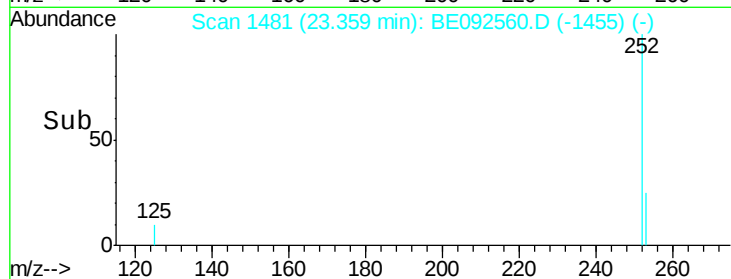
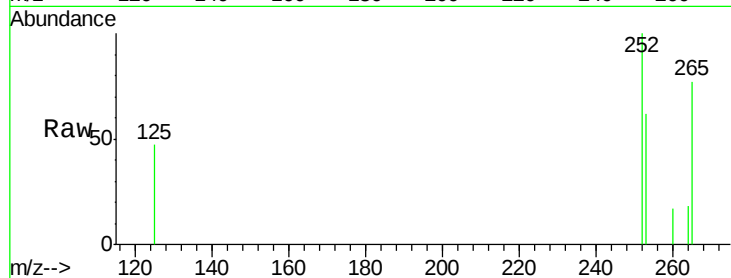
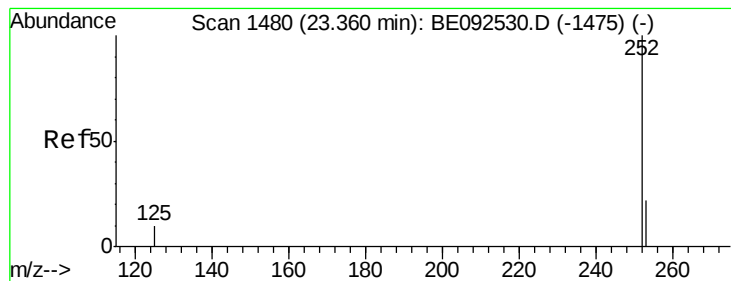
Ion Ratio Lower Upper

264 100

260 24.7 20.1 30.1

265 22.3 17.9 26.9





#32

Benzo(b)fluoranthene

Concen: 0.03 ng

RT: 23.36 min Scan# 1481

Delta R.T. -0.00 min

Lab File: BE092560.D

Acq: 17 Nov 2016 12:24

Instrument :

BNA_E

ClientSampleId :

C19023041DL

Tgt Ion: 252 Resp: 471

Ion Ratio Lower Upper

252 100

253 62.2 18.7 28.1#

125 46.6 10.5 15.7#

