

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013117\
 Data File : BE092699.D
 Acq On : 31 Jan 2017 22:43
 Operator : SJ/MA
 Sample : I1505-01 10X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SB-01

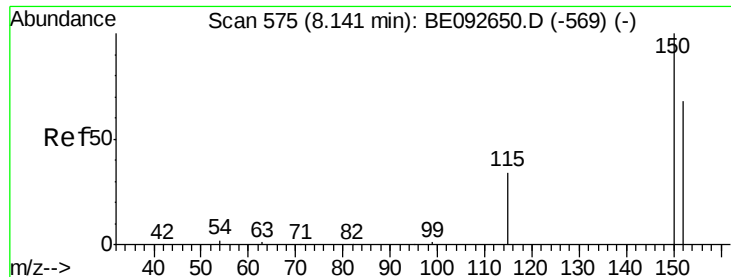
Quant Time: Feb 01 02:23:52 2017
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE011617.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 17 10:14:01 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.14	152	10731	5.00	ng	0.00
7) Naphthalene-d8	10.91	136	54995	5.00	ng	0.00
12) Acenaphthene-d10	14.78	164	37763	5.00	ng	0.00
18) Phenanthrene-d10	17.53	188	79282	5.00	ng	0.00
24) Chrysene-d12	21.72	240	74542	5.00	ng	0.00
31) Perylene-d12	24.07	264	80502	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.65	112	2638	1.10	ng	0.00
5) Phenol-d6	7.31	99	3440	1.17	ng	-0.02
8) Nitrobenzene-d5	9.36	82	1327	0.37	ng	0.02
13) 2,4,6-Tribromophenol	16.31	330	789	0.83	ng	0.01
14) 2-Fluorobiphenyl	13.42	172	4625	0.50	ng	0.00
26) Terphenyl-d14	20.14	244	6132	0.58	ng	-0.02

Target Compounds						Qvalue
9) Naphthalene	10.97	128	361	0.03	ng	# 27
11) 2-Methylnaphthalene	12.64	142	146	0.02	ng	# 75
15) Acenaphthylene	14.49	152	6282	0.12	ng	100
17) Fluorene	15.86	166	244	0.02	ng	92
19) Hexachlorobenzene	16.66	284	115	Below Cal		# 1
21) Phenanthrene	17.58	178	5020	0.29	ng	96
22) Anthracene	17.58	178	5020	0.31	ng	97
23) Fluoranthene	19.58	202	41505	0.53	ng	99
25) Pyrene	19.93	202	42857	0.58	ng	96
27) Benzo(a)anthracene	21.75	228	50802	0.69	ng	# 89
28) Chrysene	21.75	228	50802	0.61	ng	# 71
29) Bis(2-ethylhexyl)phthalate	21.61	149	1164	0.28	ng	# 72
30) Indeno(1,2,3-cd)pyrene	26.53	276	16139	0.18	ng	96
32) Benzo(b)fluoranthene	23.34	252	11008	0.57	ng	# 86
33) Benzo(k)fluoranthene	23.34	252	11008	0.56	ng	# 88
34) Benzo(a)pyrene	23.95	252	5998	0.33	ng	# 86
35) Dibenzo(a,h)anthracene	26.55	278	1069	0.06	ng	# 26
36) Benzo(g,h,i)perylene	27.30	276	17508	0.23	ng	# 88

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.14 min Scan# 575

Delta R.T. -0.00 min

Lab File: BE092699.D

Acq: 31 Jan 2017 22:43

Instrument :

BNA_E

ClientSampleId :

SB-01

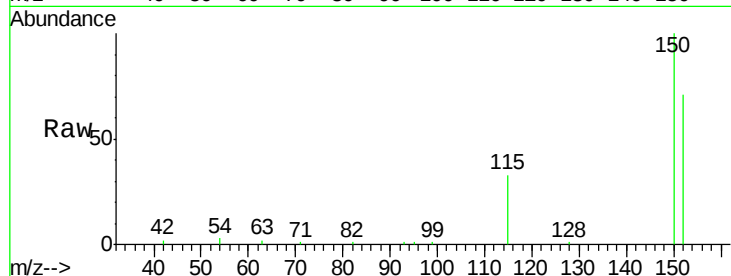
Tgt Ion:152 Resp: 10731

Ion Ratio Lower Upper

152 100

150 141.2 106.0 159.0

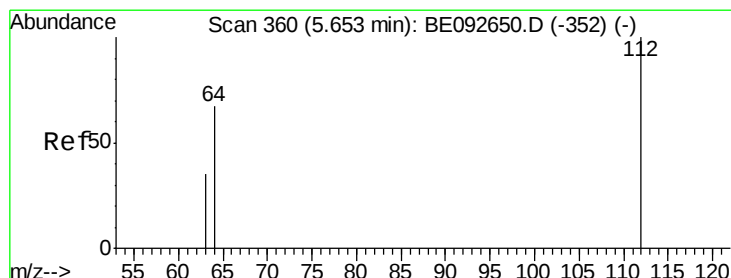
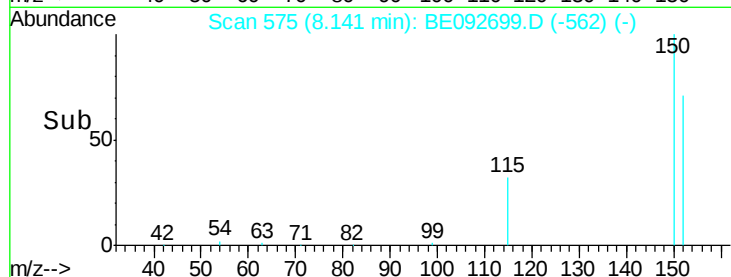
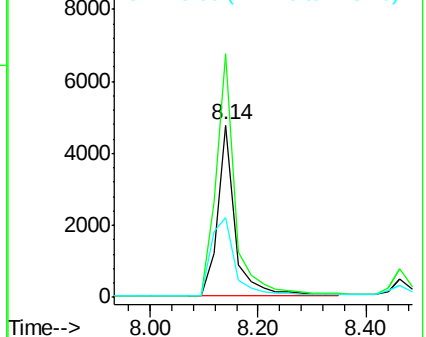
115 46.2 31.2 46.8



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



#4

2-Fluorophenol

Concen: 1.10 ng

RT: 5.65 min Scan# 359

Delta R.T. -0.01 min

Lab File: BE092699.D

Acq: 31 Jan 2017 22:43

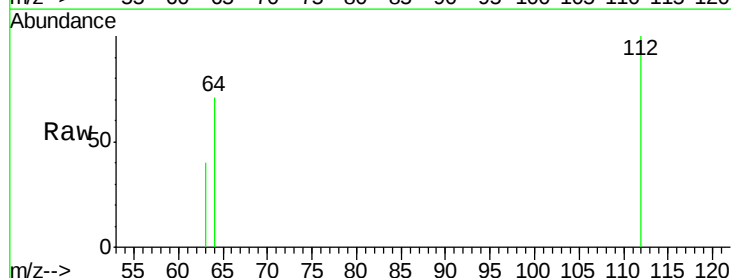
Tgt Ion:112 Resp: 2638

Ion Ratio Lower Upper

112 100

64 67.7 53.5 80.3

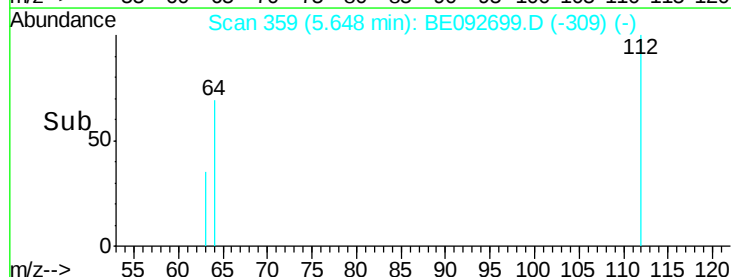
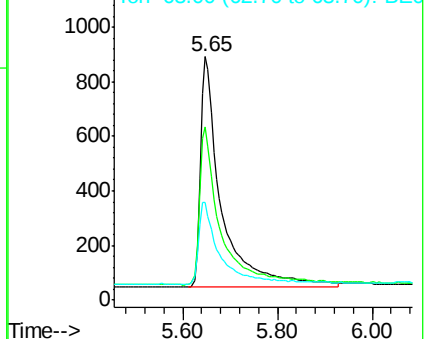
63 35.4 27.9 41.9

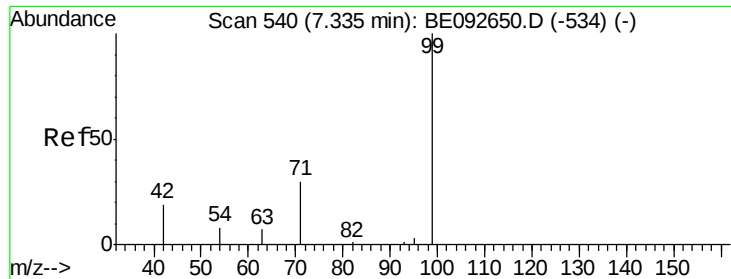


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 1.17 ng

RT: 7.31 min Scan# 539

Delta R.T. -0.02 min

Lab File: BE092699.D

Acq: 31 Jan 2017 22:43

Instrument :

BNA_E

ClientSampleId :

SB-01

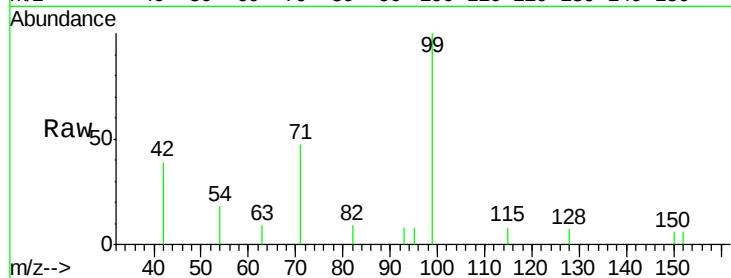
Tgt Ion: 99 Resp: 3440

Ion Ratio Lower Upper

99 100

42 24.9 16.0 24.0#

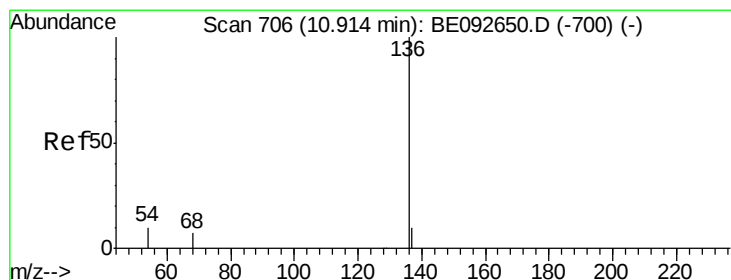
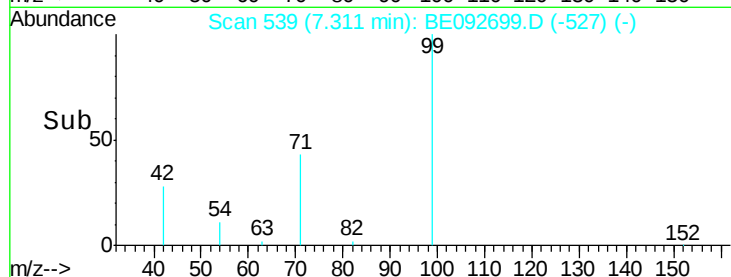
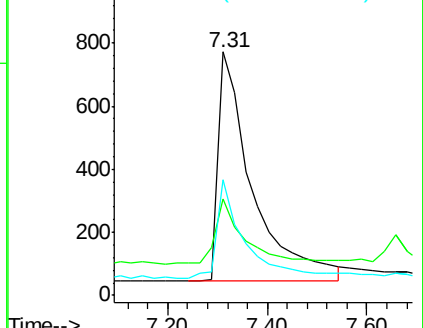
71 35.3 30.6 45.8



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



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.91 min Scan# 706

Delta R.T. -0.00 min

Lab File: BE092699.D

Acq: 31 Jan 2017 22:43

Tgt Ion: 136 Resp: 54995

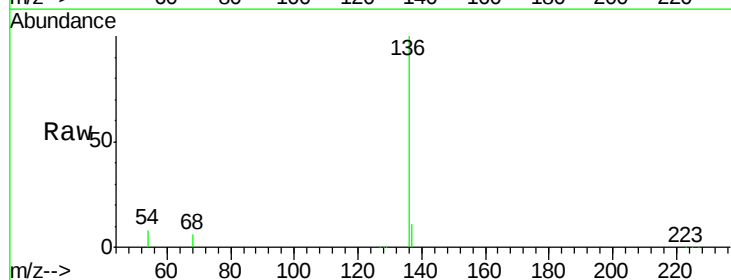
Ion Ratio Lower Upper

136 100

137 11.0 8.2 12.4

54 8.3 9.6 14.4#

68 6.0 6.7 10.1#

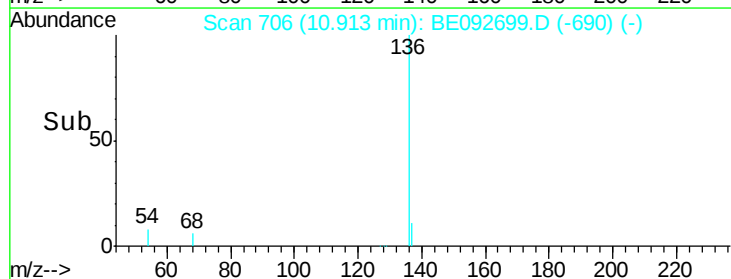
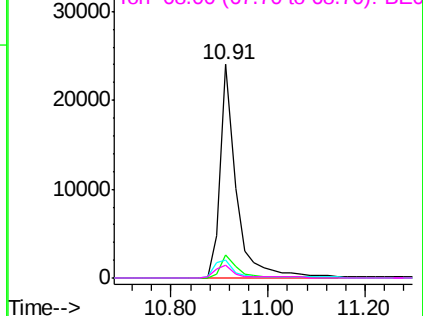


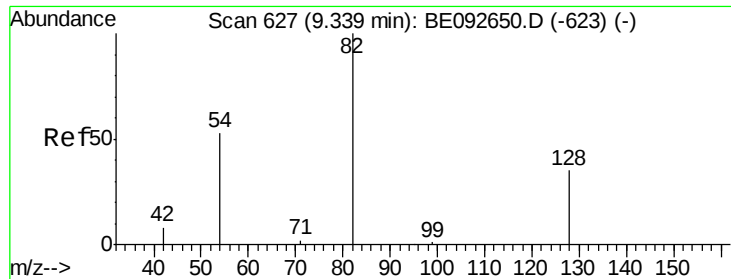
Abundance Ion 136.00 (135.70 to 136.70): E

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





#8

Nitrobenzene-d5

Concen: 0.37 ng

RT: 9.36 min Scan# 628

Delta R.T. 0.02 min

Lab File: BE092699.D

Acq: 31 Jan 2017 22:43

Instrument :

BNA_E

ClientSampleId :

SB-01

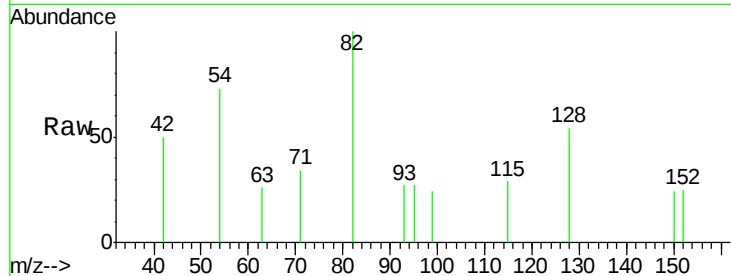
Tgt Ion: 82 Resp: 1327

Ion Ratio Lower Upper

82 100

128 54.0 39.0 58.4

54 72.6 44.8 67.2#

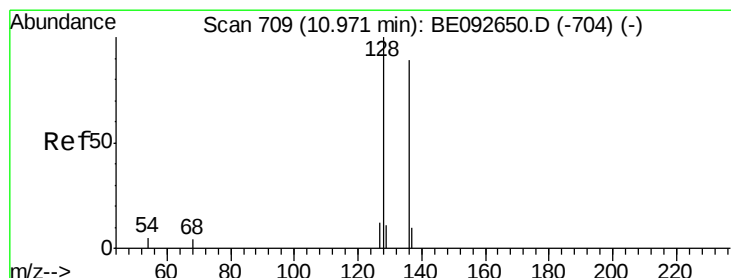
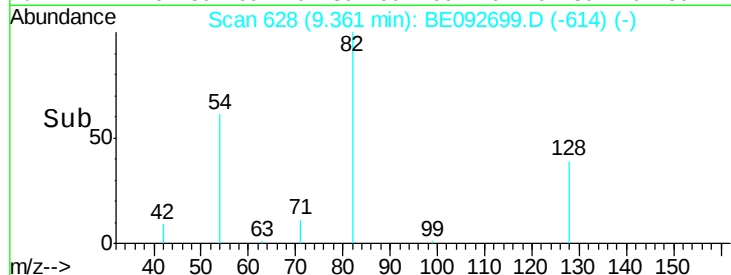
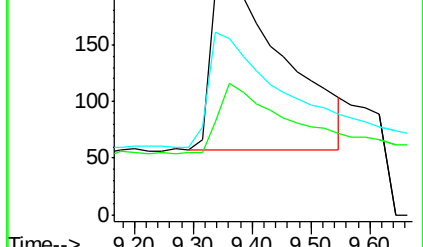


Abundance Ion 82.00 (81.70 to 82.70): BE092650.D (-623) (-)

Ion 128.00 (127.70 to 128.70): BE092650.D (-623) (-)

Ion 54.00 (53.70 to 54.70): BE092650.D (-623) (-)

Time-->



#9

Naphthalene

Concen: 0.03 ng

RT: 10.97 min Scan# 709

Delta R.T. -0.00 min

Lab File: BE092699.D

Acq: 31 Jan 2017 22:43

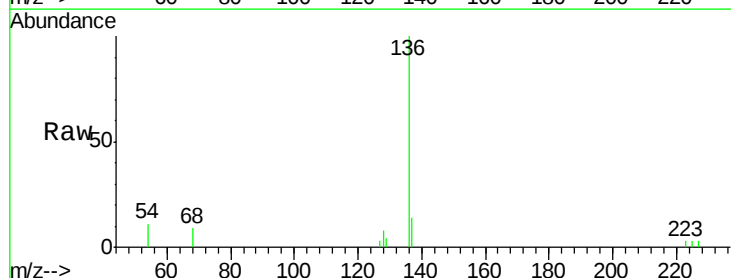
Tgt Ion: 128 Resp: 361

Ion Ratio Lower Upper

128 100

129 46.0 11.2 16.8#

127 42.4 11.6 17.4#

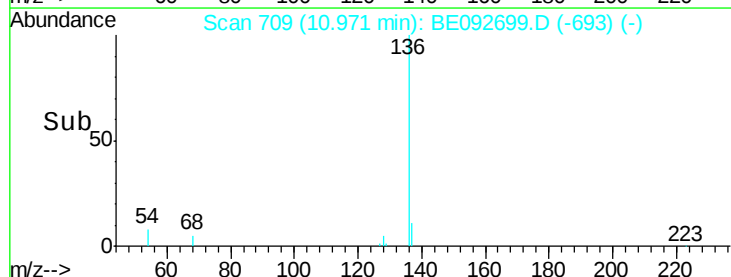
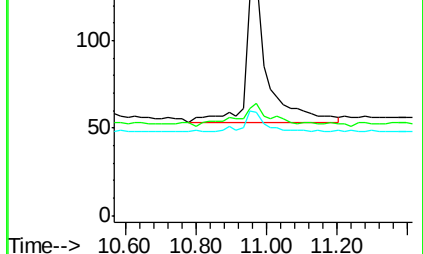


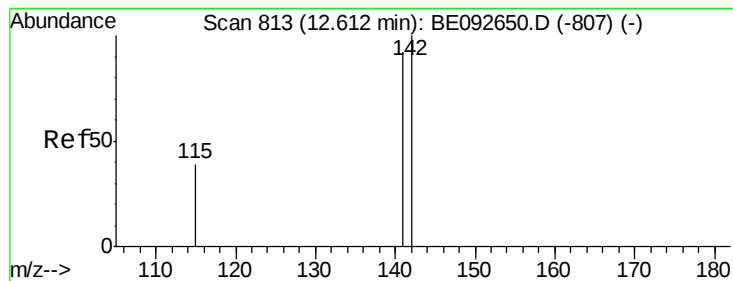
Abundance Ion 128.00 (127.70 to 128.70): BE092650.D (-704) (-)

Ion 129.00 (128.70 to 129.70): BE092650.D (-704) (-)

Ion 127.00 (126.70 to 127.70): BE092650.D (-704) (-)

Time-->





#11

2-Methylnaphthalene

Concen: 0.02 ng

RT: 12.64 min Scan# 815

Delta R.T. 0.02 min

Lab File: BE092699.D

Acq: 31 Jan 2017 22:43

Instrument :

BNA_E

ClientSampleId :

SB-01

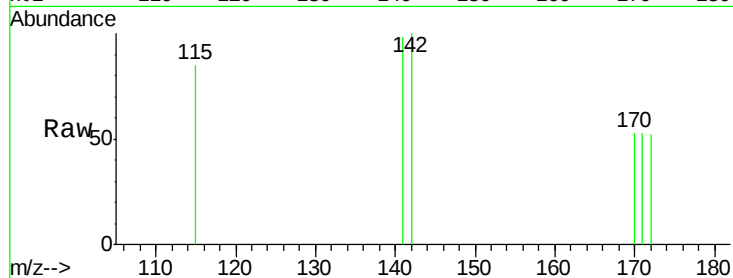
Tgt Ion:142 Resp: 146

Ion Ratio Lower Upper

142 100

141 97.7 73.7 110.5

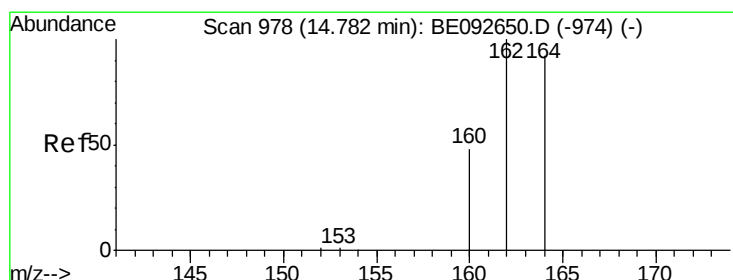
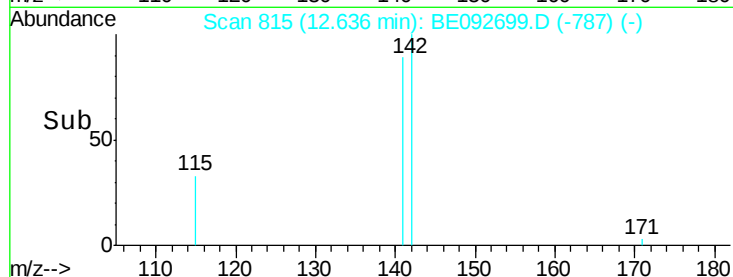
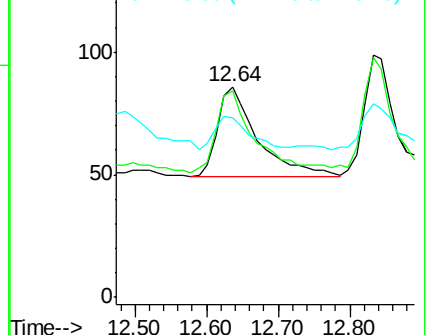
115 84.9 34.0 51.0#



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: 14.78 min Scan# 978

Delta R.T. 0.00 min

Lab File: BE092699.D

Acq: 31 Jan 2017 22:43

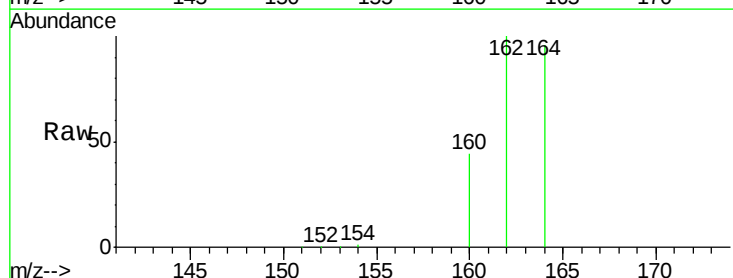
Tgt Ion:164 Resp: 37763

Ion Ratio Lower Upper

164 100

162 104.0 71.4 107.0

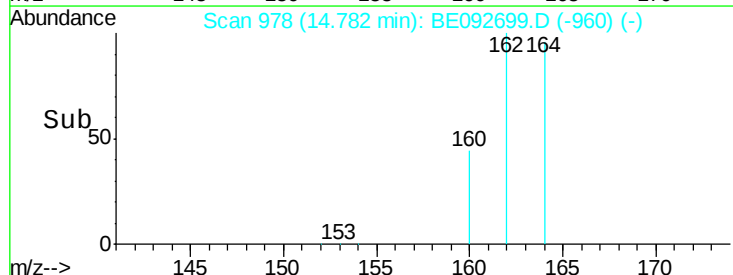
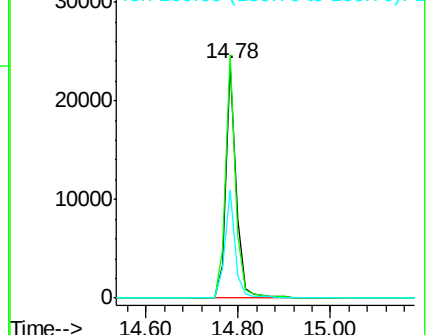
160 46.2 27.4 41.2#

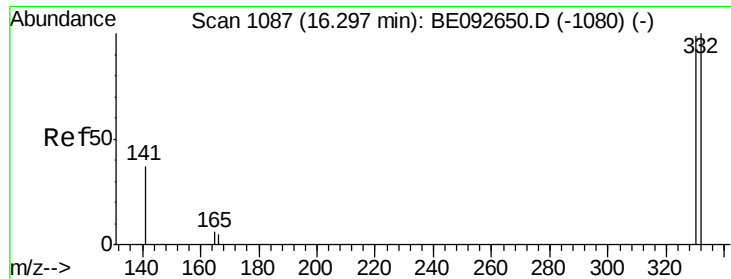


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

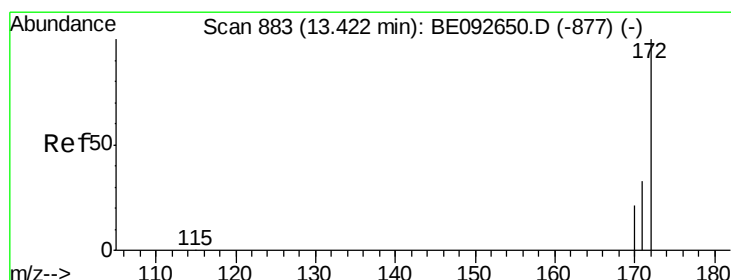
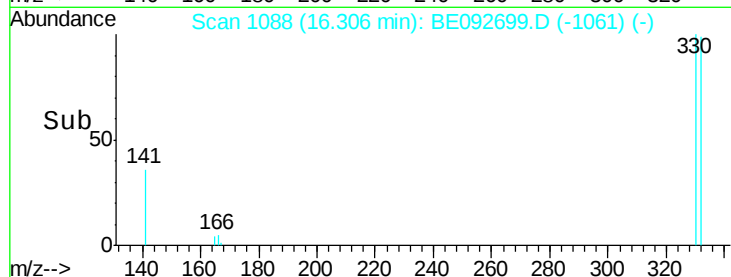
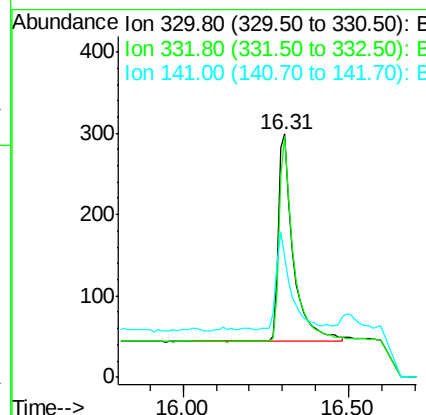
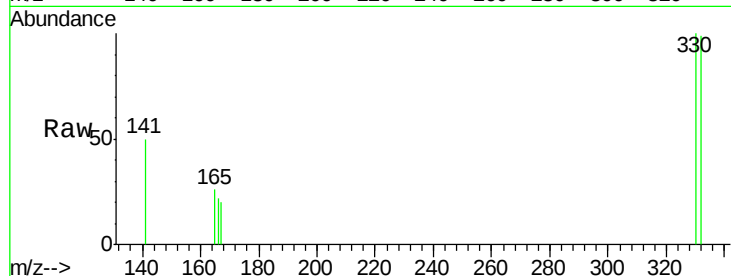




#13
 2,4,6-Tribromophenol
 Concen: 0.83 ng
 RT: 16.31 min Scan# 1088
 Delta R.T. 0.01 min
 Lab File: BE092699.D
 Acq: 31 Jan 2017 22:43

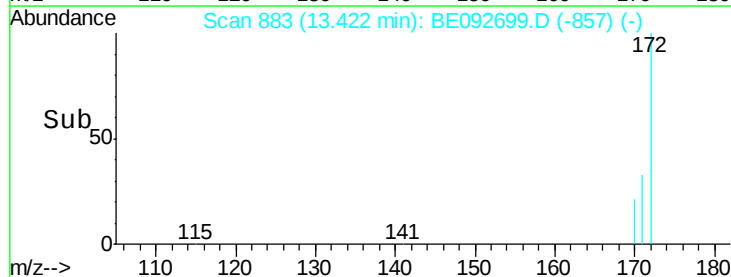
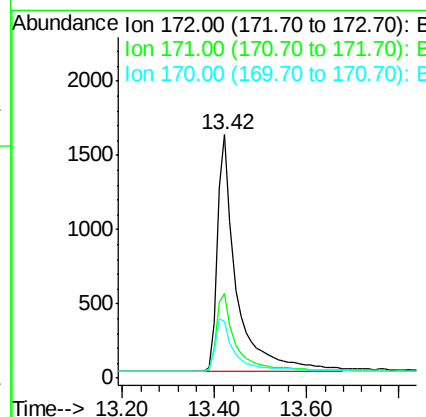
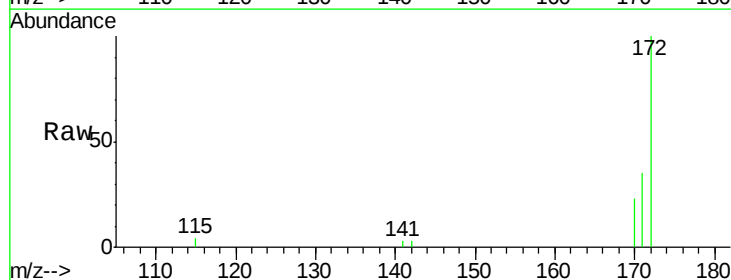
Instrument :
 BNA_E
 ClientSampleId :
 SB-01

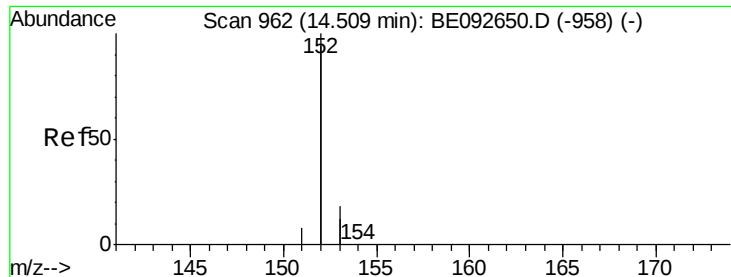
Tgt Ion: 330 Resp: 789
 Ion Ratio Lower Upper
 330 100
 332 100.9 75.4 113.0
 141 45.0 31.0 46.6



#14
 2-Fluorobiphenyl
 Concen: 0.50 ng
 RT: 13.42 min Scan# 883
 Delta R.T. 0.00 min
 Lab File: BE092699.D
 Acq: 31 Jan 2017 22:43

Tgt Ion: 172 Resp: 4625
 Ion Ratio Lower Upper
 172 100
 171 35.1 30.1 45.1
 170 23.3 21.8 32.6





#15

Acenaphthylene

Concen: 0.12 ng

RT: 14.49 min Scan# 961

Delta R.T. -0.02 min

Lab File: BE092699.D

Acq: 31 Jan 2017 22:43

Instrument :

BNA_E

ClientSampleId :

SB-01

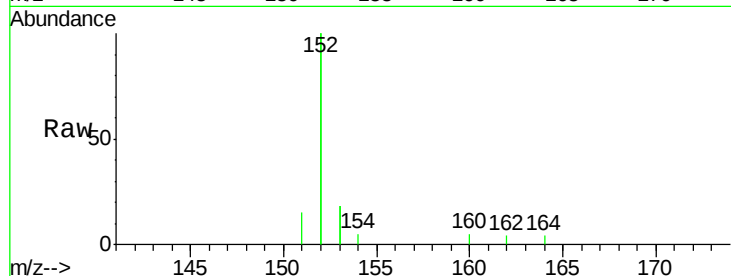
Tgt Ion:152 Resp: 6282

Ion Ratio Lower Upper

152 100

151 4.8 3.9 5.9

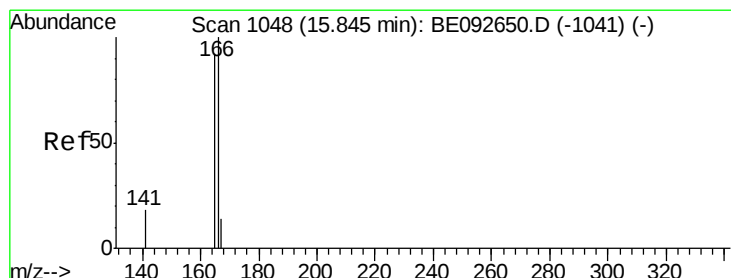
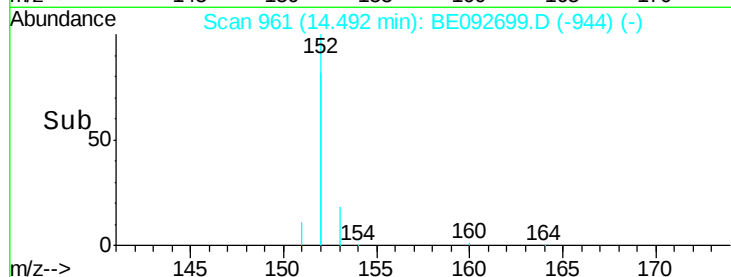
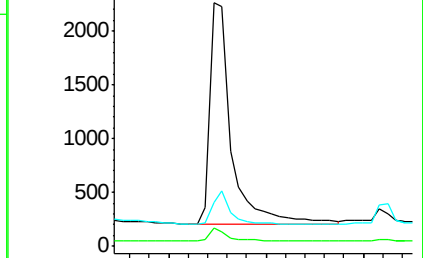
153 12.9 10.4 15.6



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



#17

Fluorene

Concen: 0.02 ng

RT: 15.86 min Scan# 1049

Delta R.T. 0.01 min

Lab File: BE092699.D

Acq: 31 Jan 2017 22:43

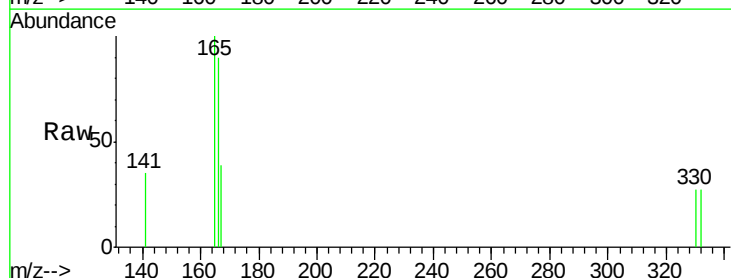
Tgt Ion:166 Resp: 244

Ion Ratio Lower Upper

166 100

165 106.6 78.2 117.4

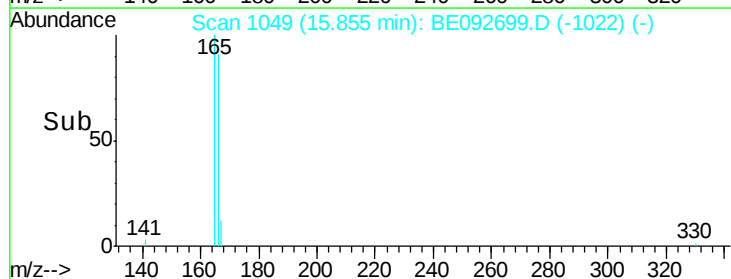
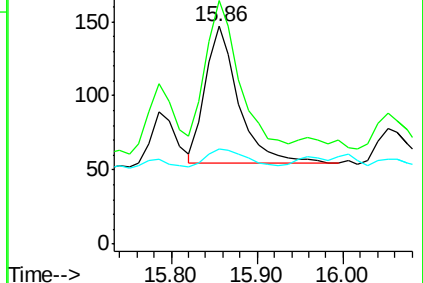
167 16.0 11.0 16.4

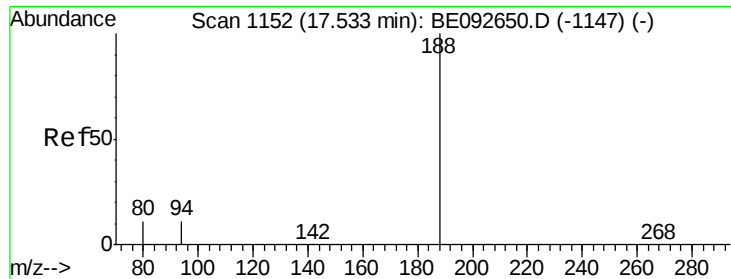


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

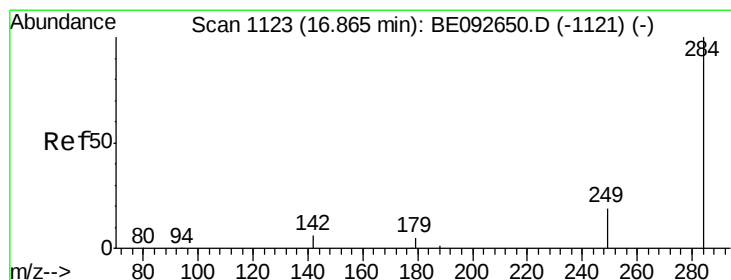
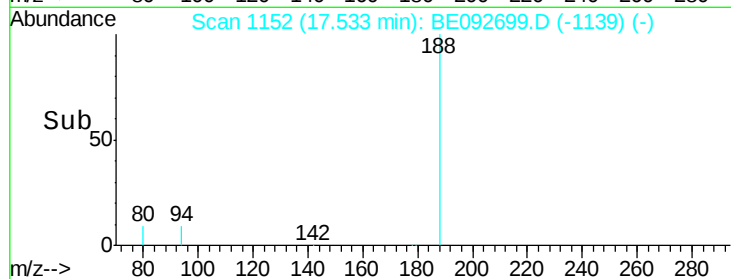
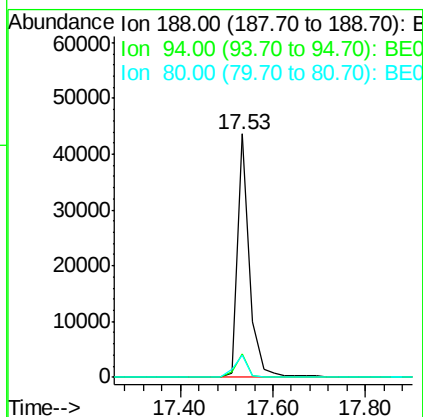
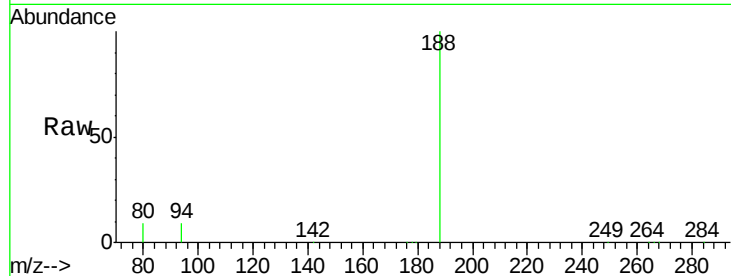




#18
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.53 min Scan# 1152
Delta R.T. -0.00 min
Lab File: BE092699.D
Acq: 31 Jan 2017 22:43

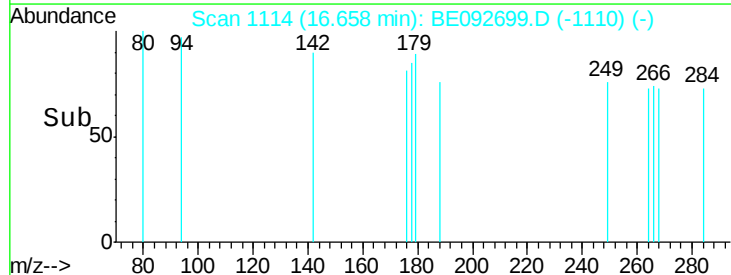
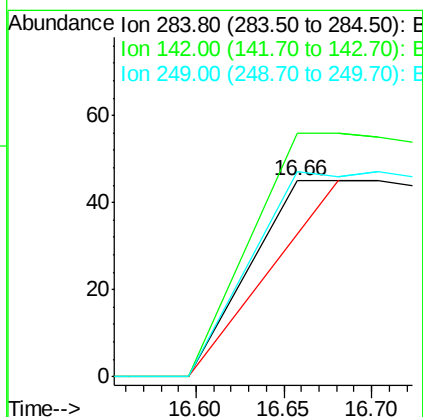
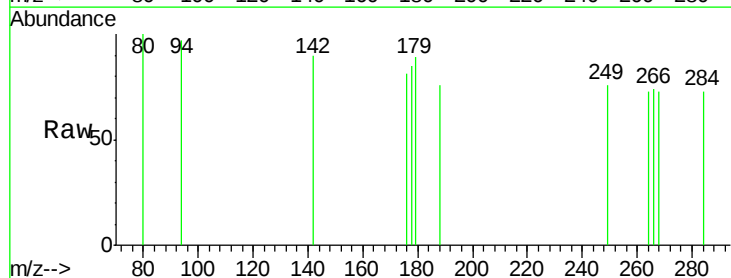
Instrument :
BNA_E
ClientSampleId :
SB-01

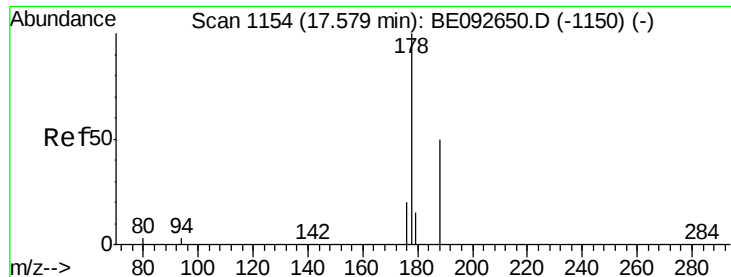
Tgt Ion:188 Resp: 79282
Ion Ratio Lower Upper
188 100
94 9.4 3.2 4.8#
80 9.1 2.6 3.8#



#19
Hexachlorobenzene
Concen: Below Cal
RT: 16.66 min Scan# 1114
Delta R.T. -0.21 min
Lab File: BE092699.D
Acq: 31 Jan 2017 22:43

Tgt Ion:284 Resp: 115
Ion Ratio Lower Upper
284 100
142 313.9 29.1 43.7#
249 317.4 27.9 41.9#





#21

Phenanthrene

Concen: 0.29 ng

RT: 17.58 min Scan# 1154

Delta R.T. -0.00 min

Lab File: BE092699.D

Acq: 31 Jan 2017 22:43

Instrument :

BNA_E

ClientSampleId :

SB-01

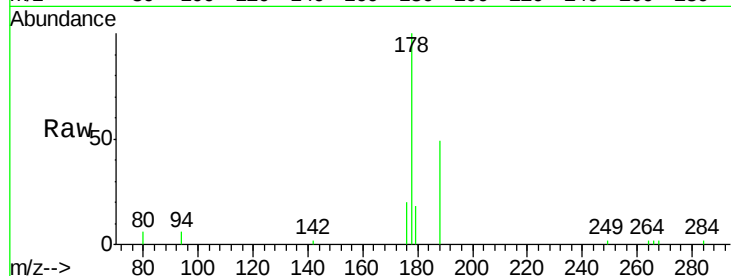
Tgt Ion:178 Resp: 5020

Ion Ratio Lower Upper

178 100

176 18.9 15.8 23.8

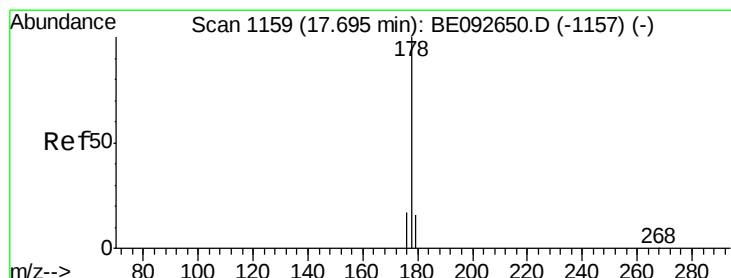
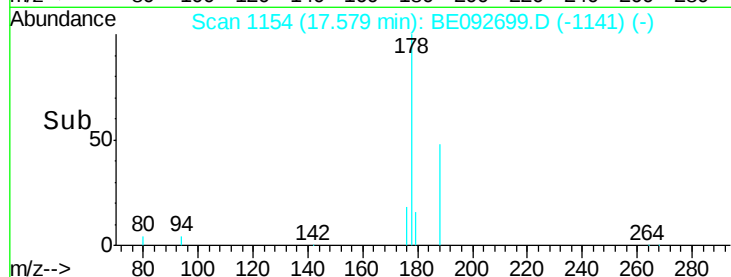
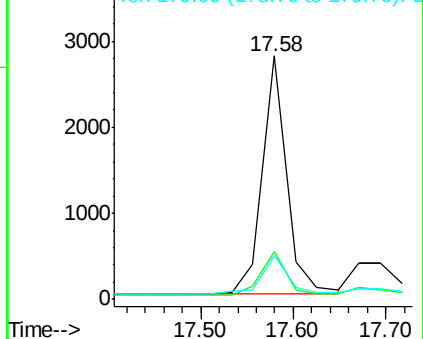
179 17.6 16.0 24.0



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: 0.31 ng

RT: 17.58 min Scan# 1154

Delta R.T. -0.12 min

Lab File: BE092699.D

Acq: 31 Jan 2017 22:43

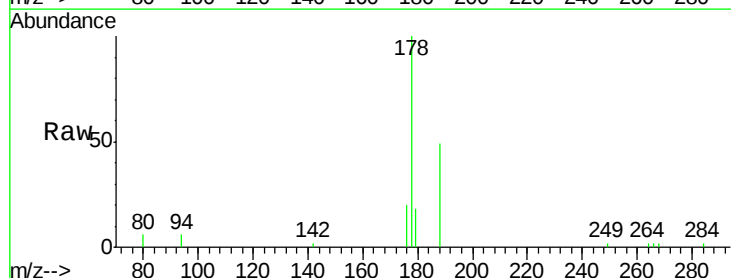
Tgt Ion:178 Resp: 5020

Ion Ratio Lower Upper

178 100

176 18.9 15.0 22.4

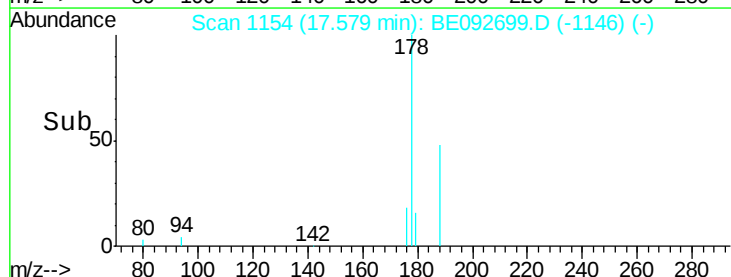
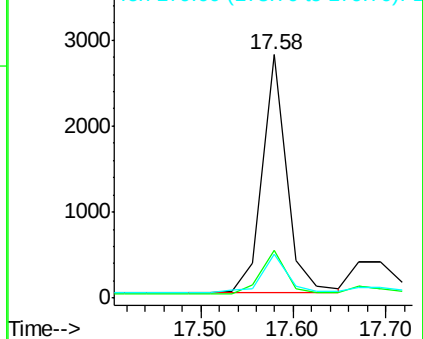
179 17.6 12.2 18.2

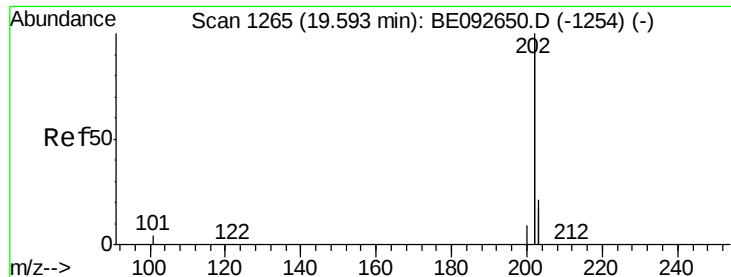


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Fluoranthene

Concen: 0.53 ng

RT: 19.58 min Scan# 1264

Delta R.T. -0.02 min

Lab File: BE092699.D

Acq: 31 Jan 2017 22:43

Instrument :

BNA_E

ClientSampleId :

SB-01

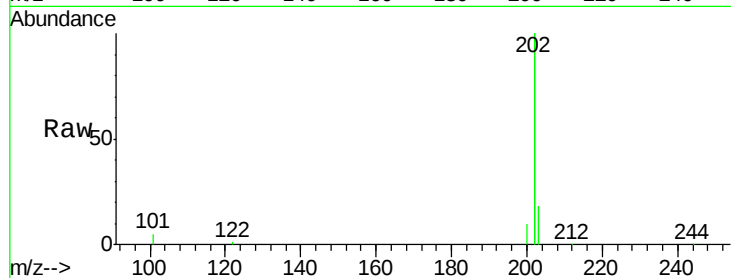
Tgt Ion: 202 Resp: 41505

Ion Ratio Lower Upper

202 100

101 2.9 2.2 3.4

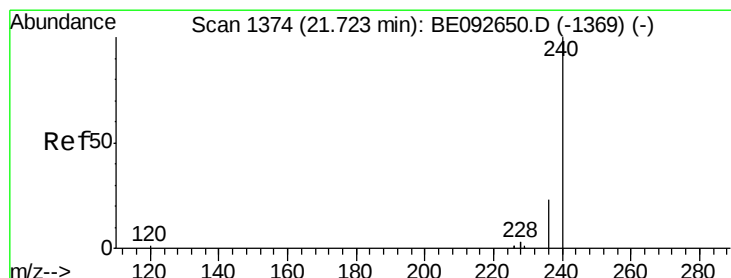
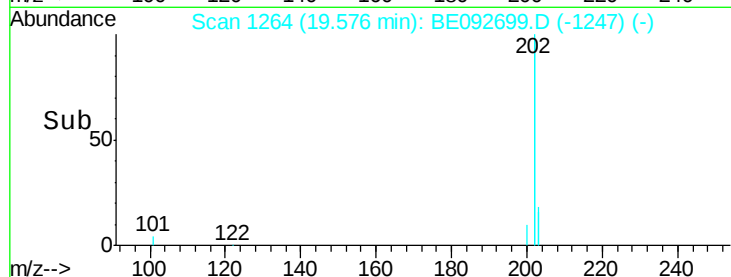
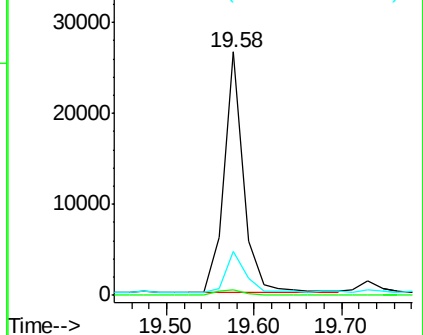
203 17.6 13.7 20.5



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



#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.72 min Scan# 1374

Delta R.T. 0.00 min

Lab File: BE092699.D

Acq: 31 Jan 2017 22:43

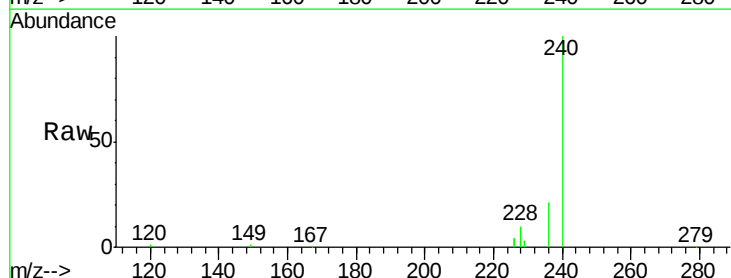
Tgt Ion: 240 Resp: 74542

Ion Ratio Lower Upper

240 100

120 1.2 2.6 4.0#

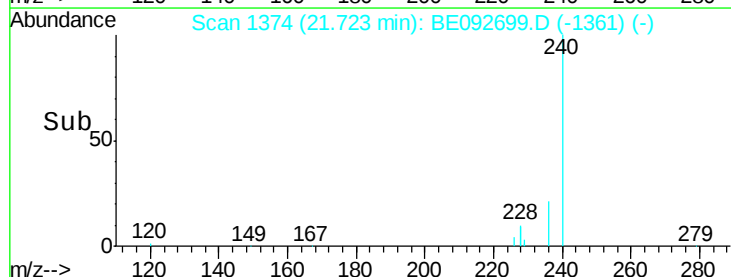
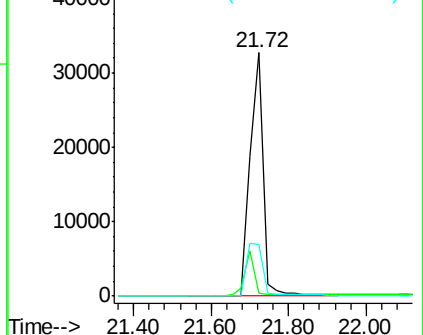
236 21.4 24.6 37.0#

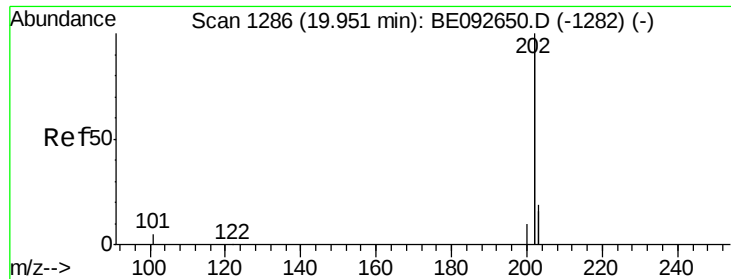


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#25

Pyrene

Concen: 0.58 ng

RT: 19.93 min Scan# 1285

Delta R.T. -0.02 min

Lab File: BE092699.D

Acq: 31 Jan 2017 22:43

Instrument :

BNA_E

ClientSampleId :

SB-01

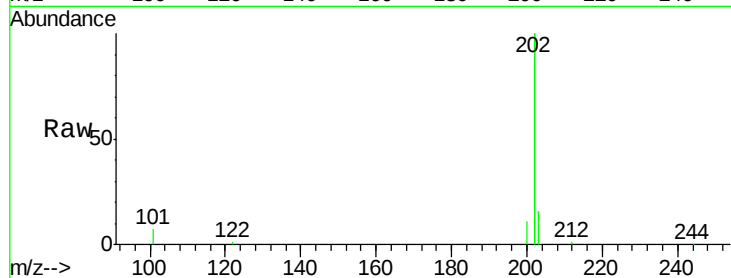
Tgt Ion:202 Resp: 42857

Ion Ratio Lower Upper

202 100

200 5.3 4.2 6.4

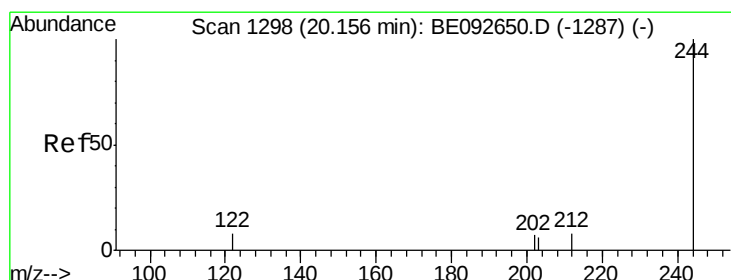
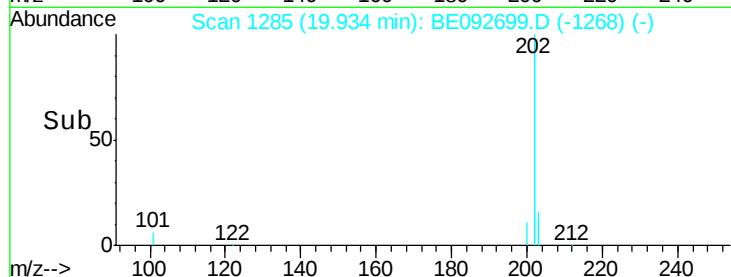
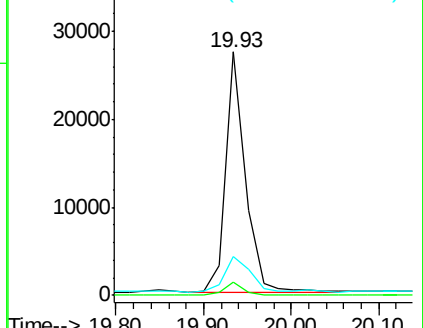
203 19.8 13.9 20.9



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: 0.58 ng

RT: 20.14 min Scan# 1297

Delta R.T. -0.02 min

Lab File: BE092699.D

Acq: 31 Jan 2017 22:43

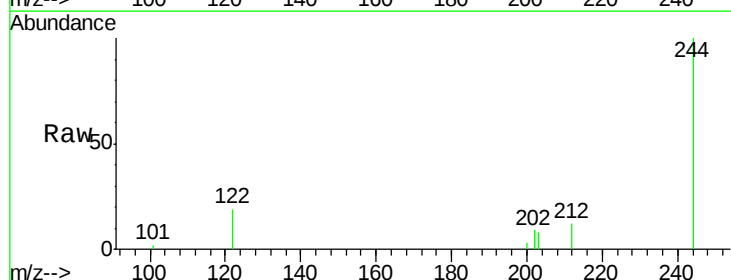
Tgt Ion:244 Resp: 6132

Ion Ratio Lower Upper

244 100

212 11.7 6.7 10.1#

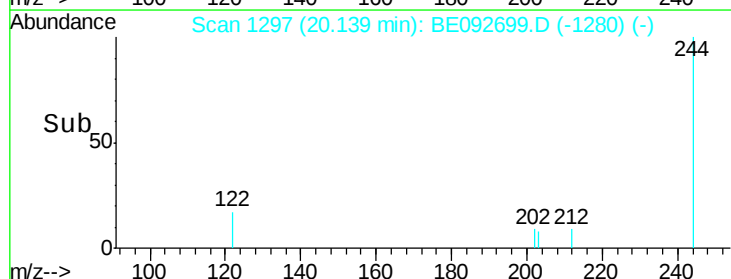
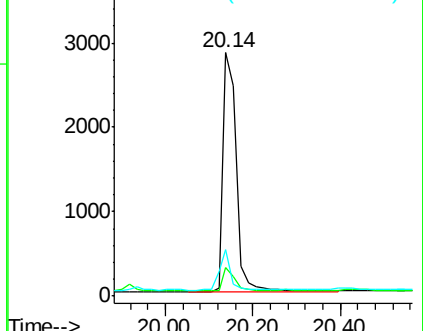
122 19.2 3.6 5.4#

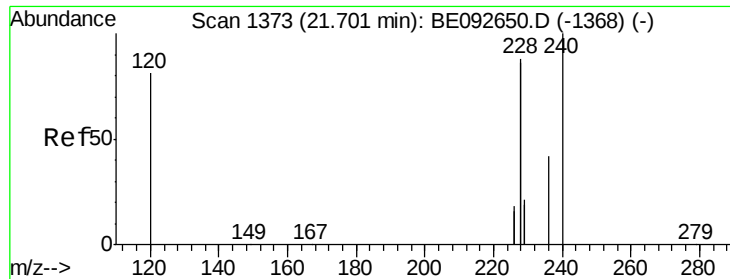


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#27

Benzo(a)anthracene

Concen: 0.69 ng

RT: 21.75 min Scan# 1375

Delta R.T. 0.05 min

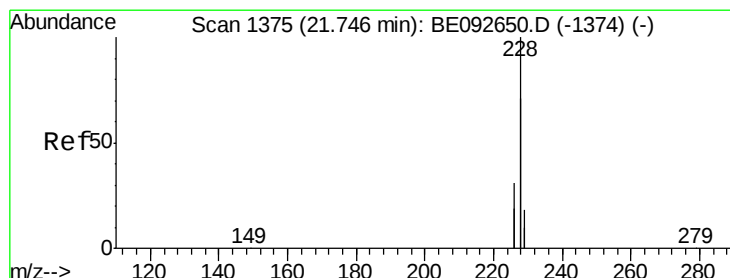
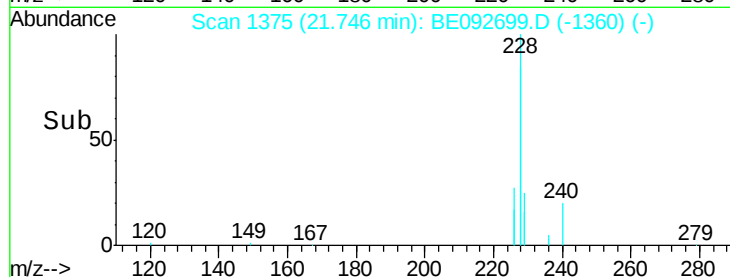
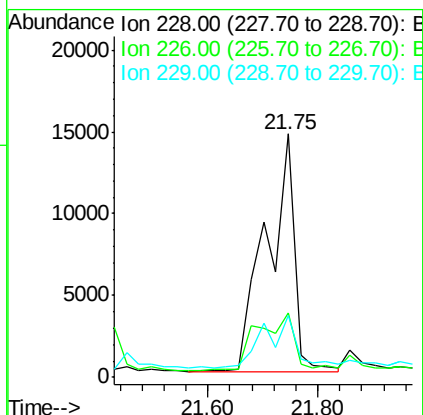
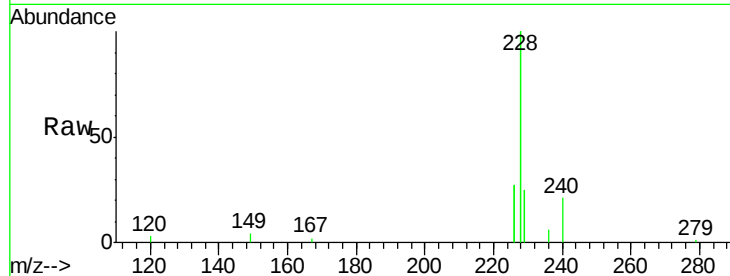
Lab File: BE092699.D

Acq: 31 Jan 2017 22:43

Instrument :
BNA_E
ClientSampleId :
SB-01

Tgt Ion:228 Resp: 50802

Ion	Ratio	Lower	Upper
228	100		
226	26.7	23.6	35.4
229	25.4	13.3	19.9#



#28

Chrysene

Concen: 0.61 ng

RT: 21.75 min Scan# 1375

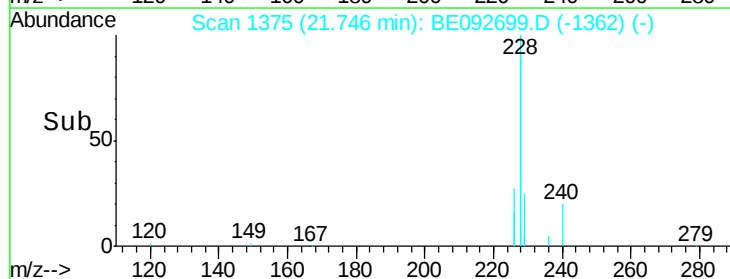
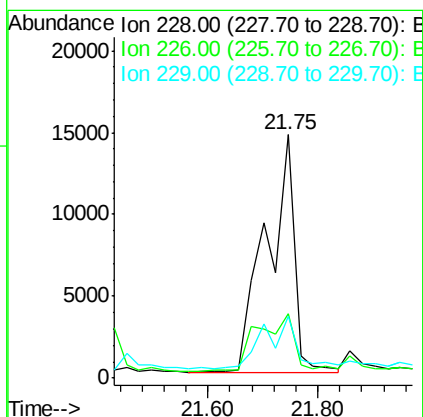
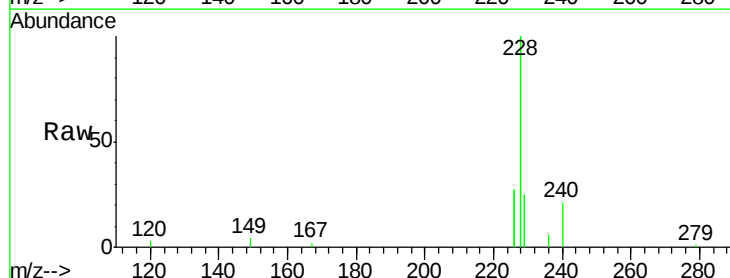
Delta R.T. 0.00 min

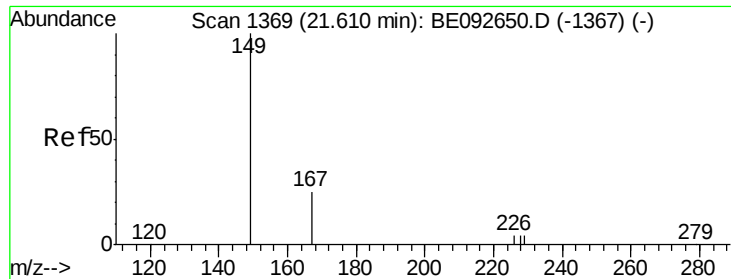
Lab File: BE092699.D

Acq: 31 Jan 2017 22:43

Tgt Ion:228 Resp: 50802

Ion	Ratio	Lower	Upper
228	100		
226	26.7	36.3	54.5#
229	25.4	10.6	16.0#





#29

Bis(2-ethylhexyl)phthalate

Concen: 0.28 ng

RT: 21.61 min Scan# 1369

Delta R.T. 0.00 min

Lab File: BE092699.D

Acq: 31 Jan 2017 22:43

Instrument :

BNA_E

ClientSampleId :

SB-01

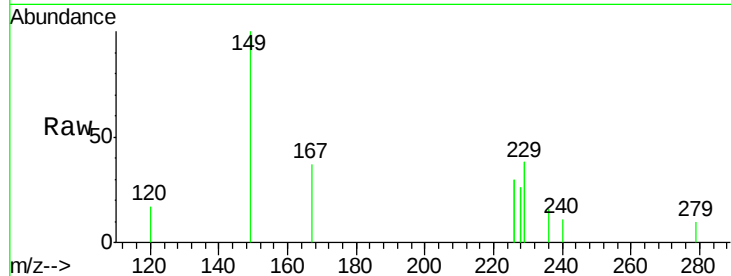
Tgt Ion:149 Resp: 1164

Ion Ratio Lower Upper

149 100

167 25.4 16.0 24.0#

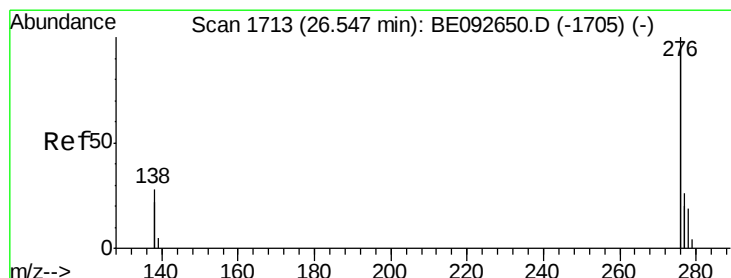
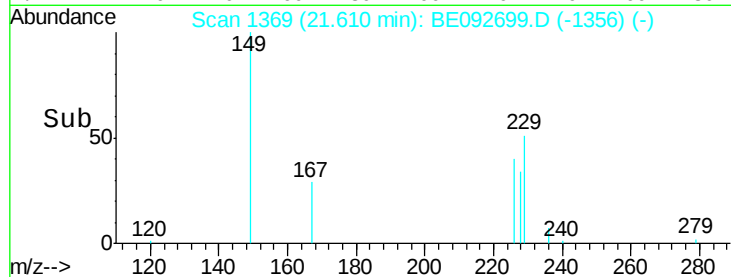
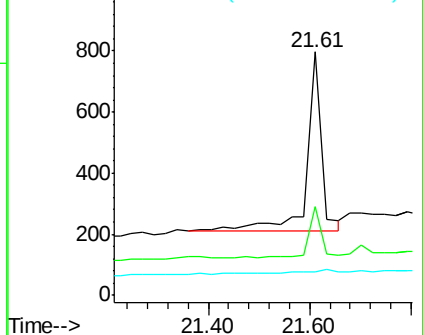
279 0.0 16.0 24.0#



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: 0.18 ng

RT: 26.53 min Scan# 1712

Delta R.T. -0.02 min

Lab File: BE092699.D

Acq: 31 Jan 2017 22:43

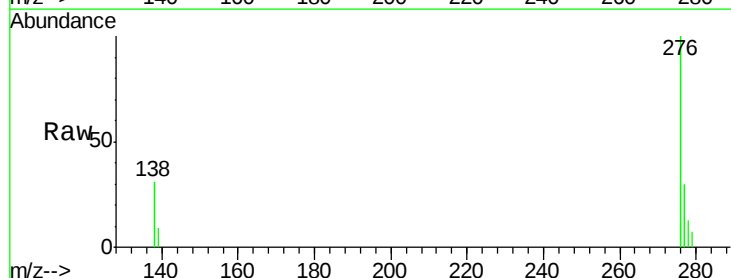
Tgt Ion:276 Resp: 16139

Ion Ratio Lower Upper

276 100

138 23.0 20.3 30.5

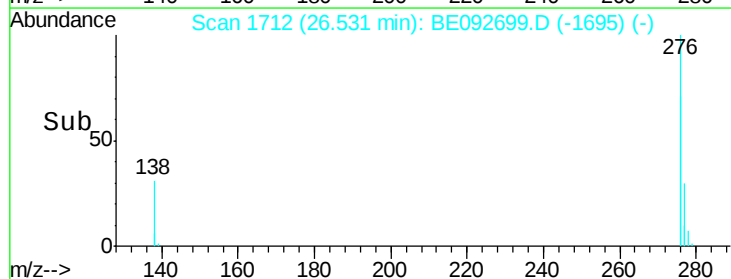
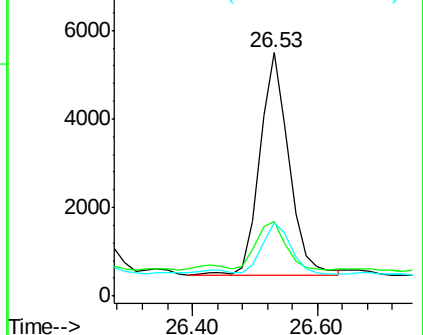
277 22.8 19.7 29.5

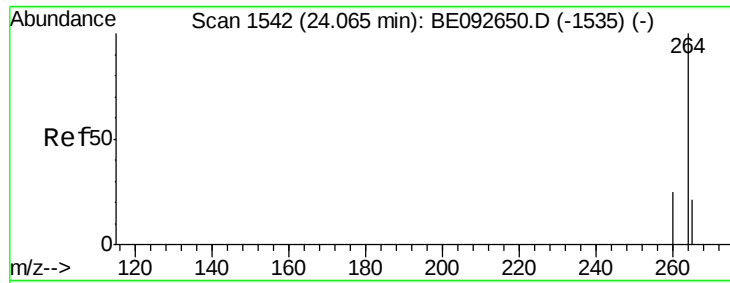


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#31

Perylene-d12

Concen: 5.00 ng

RT: 24.07 min Scan# 1542

Delta R.T. 0.00 min

Lab File: BE092699.D

Acq: 31 Jan 2017 22:43

Instrument :

BNA_E

ClientSampleId :

SB-01

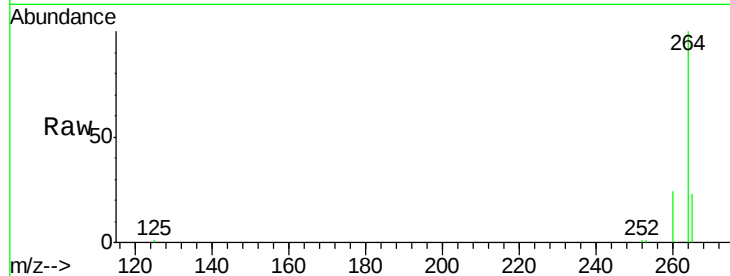
Tgt Ion:264 Resp: 80502

Ion Ratio Lower Upper

264 100

260 23.9 20.1 30.1

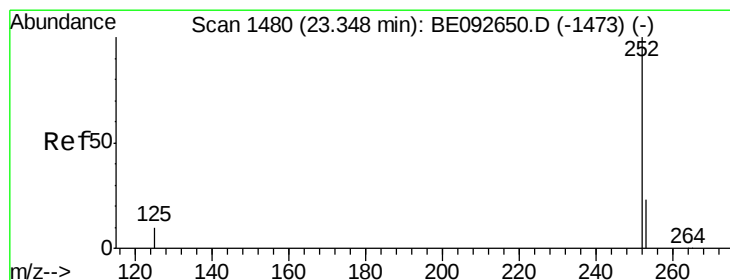
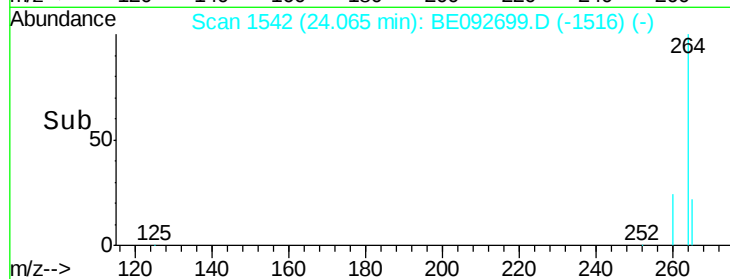
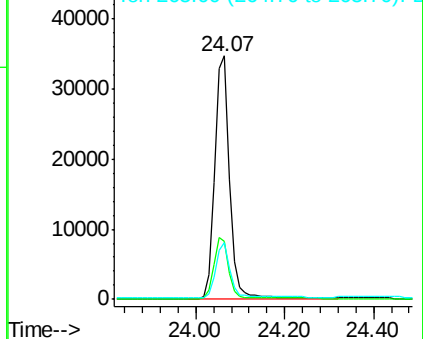
265 23.1 17.9 26.9



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



#32

Benzo(b)fluoranthene

Concen: 0.57 ng

RT: 23.34 min Scan# 1479

Delta R.T. -0.01 min

Lab File: BE092699.D

Acq: 31 Jan 2017 22:43

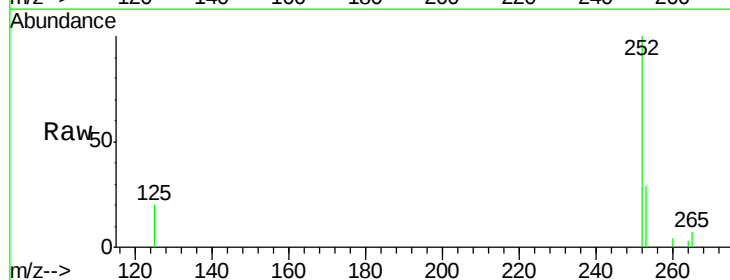
Tgt Ion:252 Resp: 11008

Ion Ratio Lower Upper

252 100

253 29.3 18.7 28.1#

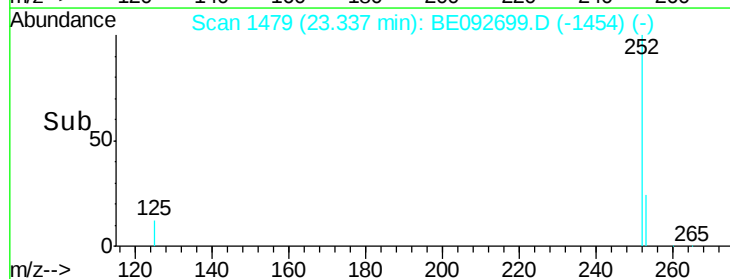
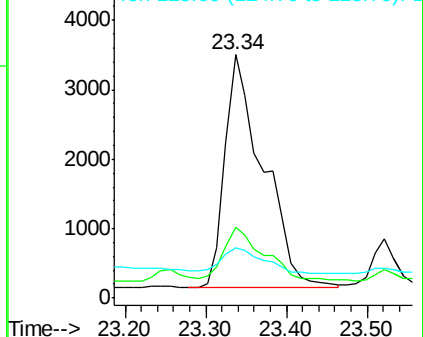
125 20.4 10.5 15.7#

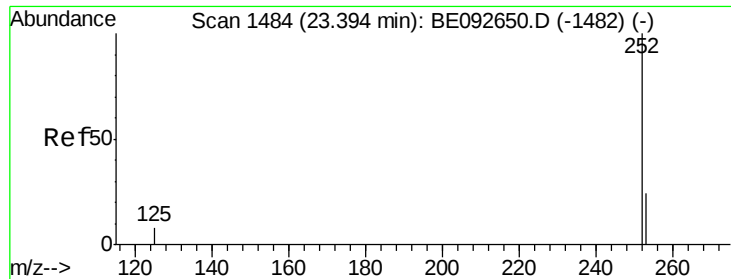


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#33

Benzo(k)fluoranthene

Concen: 0.56 ng

RT: 23.34 min Scan# 1479

Delta R.T. -0.06 min

Lab File: BE092699.D

Acq: 31 Jan 2017 22:43

Instrument :

BNA_E

ClientSampleId :

SB-01

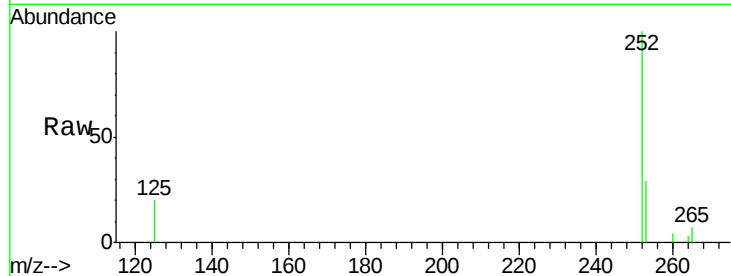
Tgt Ion:252 Resp: 11008

Ion Ratio Lower Upper

252 100

253 29.3 20.3 30.5

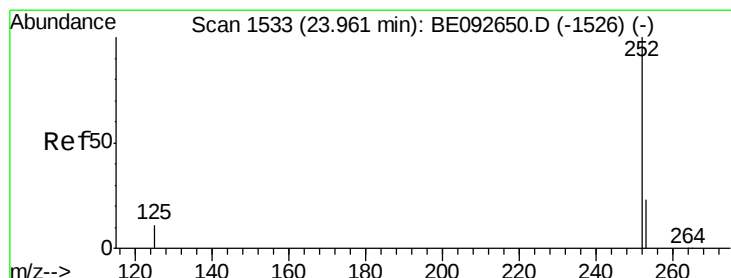
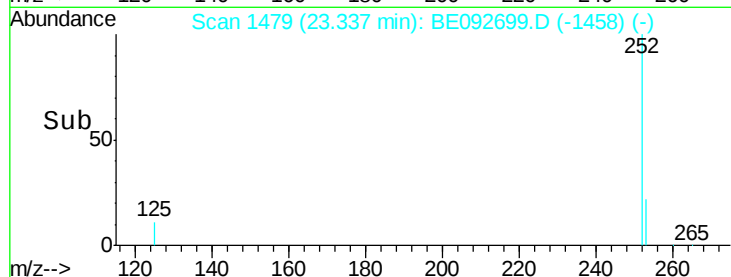
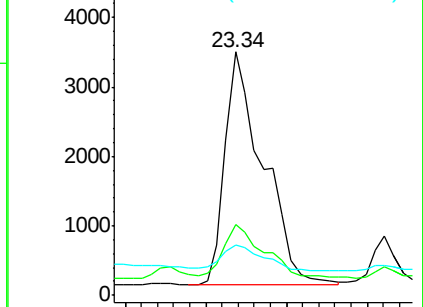
125 20.4 9.6 14.4#



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



#34

Benzo(a)pyrene

Concen: 0.33 ng

RT: 23.95 min Scan# 1532

Delta R.T. -0.01 min

Lab File: BE092699.D

Acq: 31 Jan 2017 22:43

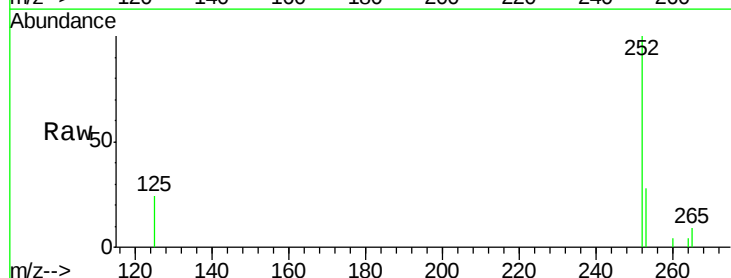
Tgt Ion:252 Resp: 5998

Ion Ratio Lower Upper

252 100

253 28.4 19.0 28.6

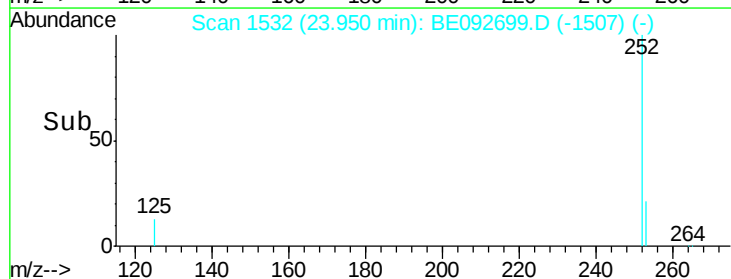
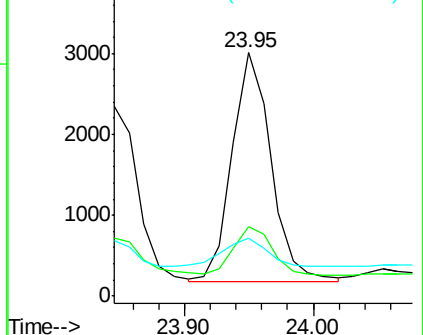
125 23.8 11.8 17.8#

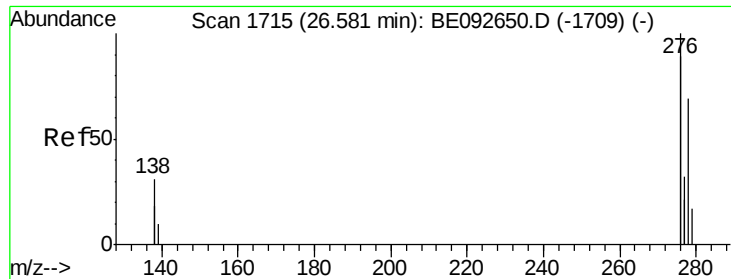


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#35

Dibenzo(a,h)anthracene

Concen: 0.06 ng

RT: 26.55 min Scan# 1713

Delta R.T. -0.03 min

Lab File: BE092699.D

Acq: 31 Jan 2017 22:43

Instrument :

BNA_E

ClientSampleId :

SB-01

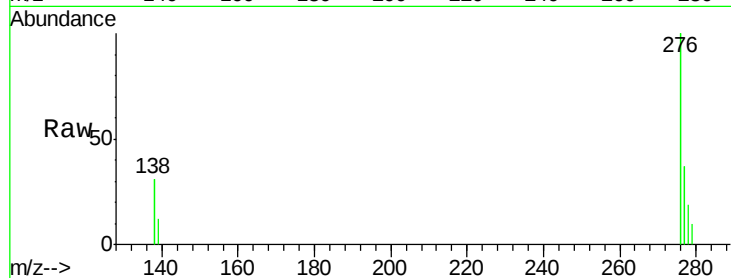
Tgt Ion: 278 Resp: 1069

Ion Ratio Lower Upper

278 100

139 62.9 13.8 20.8#

279 55.0 21.4 32.2#



Abundance Ion 278.00 (277.70 to 278.70): E

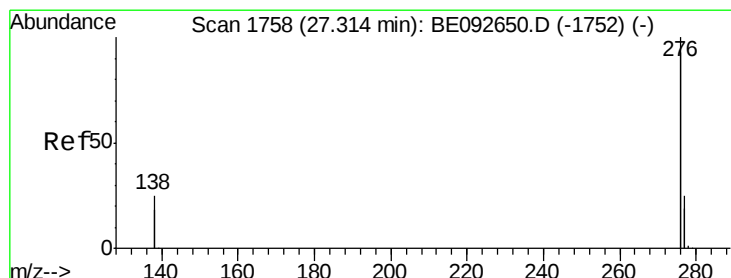
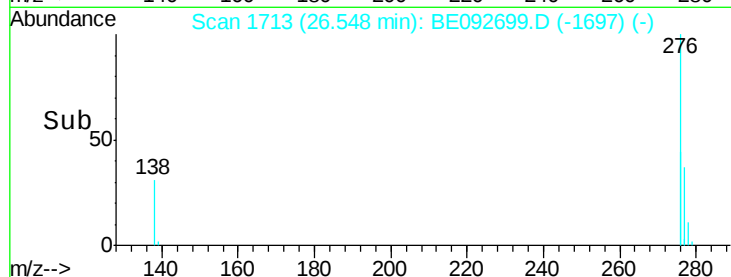
Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

Time-->

26.55

26.60



#36

Benzo(g,h,i)perylene

Concen: 0.23 ng

RT: 27.30 min Scan# 1757

Delta R.T. -0.02 min

Lab File: BE092699.D

Acq: 31 Jan 2017 22:43

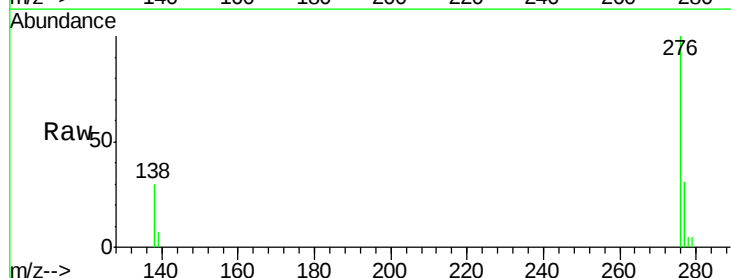
Tgt Ion: 276 Resp: 17508

Ion Ratio Lower Upper

276 100

277 30.9 19.8 29.8#

138 30.4 19.8 29.6#



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

Time-->

27.30

