

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021517\
 Data File : BE092741.D
 Acq On : 15 Feb 2017 20:00
 Operator : SJ/MA
 Sample : I1788-02
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 16 03:26:07 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE021517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 15 17:05:20 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.12	152	10369	5.00	ng	0.00
7) Naphthalene-d8	10.88	136	50394	5.00	ng	-0.02
12) Acenaphthene-d10	14.76	164	31516	5.00	ng	0.00
18) Phenanthrene-d10	17.51	188	66442	5.00	ng	0.00
24) Chrysene-d12	21.70	240	68392	5.00	ng	0.00
31) Perylene-d12	24.03	264	69365	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.61	112	10397	5.15	ng	-0.02
5) Phenol-d6	7.29	99	7856	3.17	ng	-0.02
8) Nitrobenzene-d5	9.27	82	18474	5.42	ng	-0.05
13) 2,4,6-Tribromophenol	16.25	330	9997	14.95	ng	-0.03
14) 2-Fluorobiphenyl	13.38	172	40550	5.28	ng	-0.02
26) Terphenyl-d14	20.12	244	54366	6.23	ng	-0.02

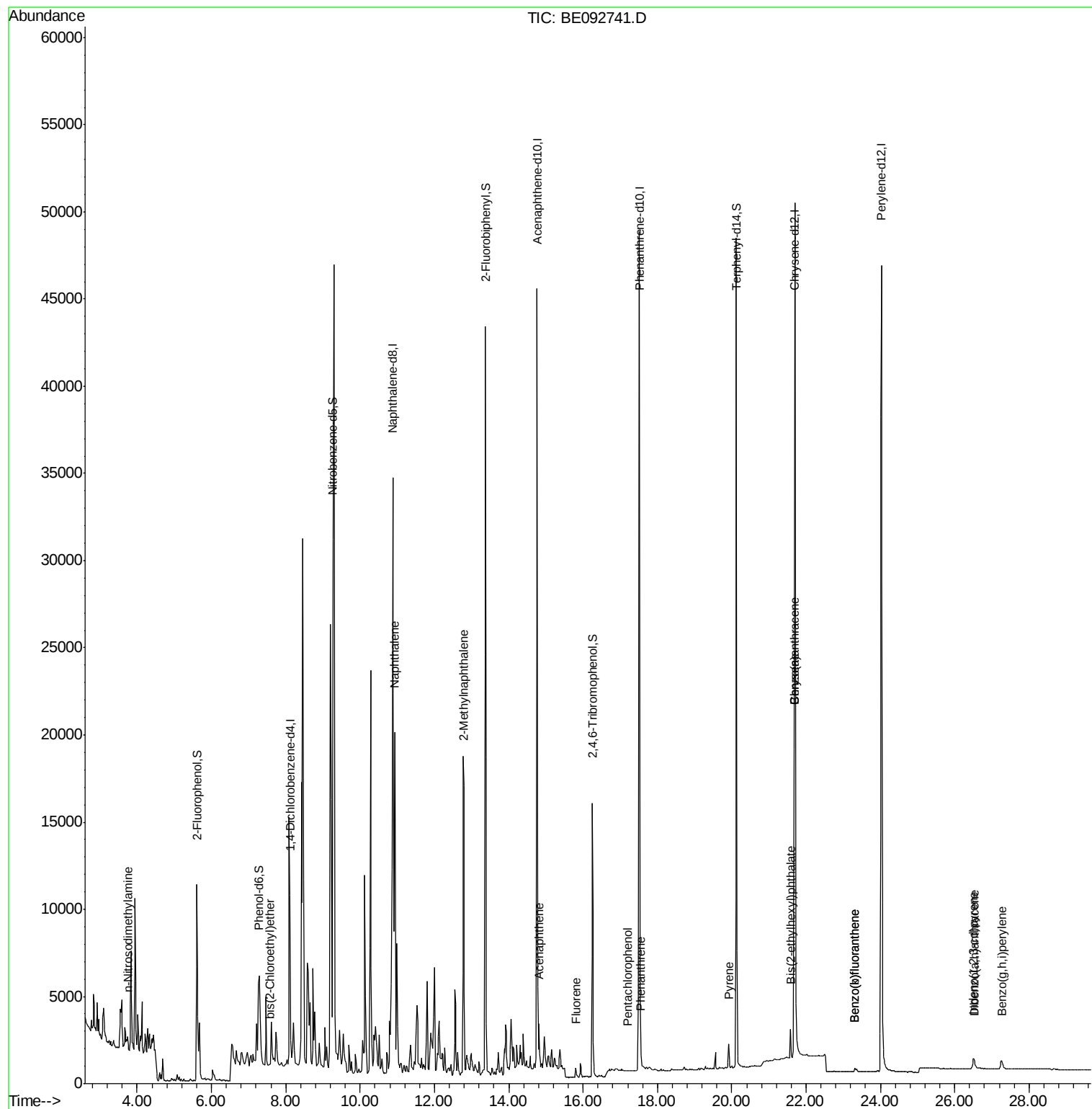
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	3.75	42	858	0.64	ng	# 3
6) bis(2-Chloroethyl)ether	7.57	93	69	0.03	ng	# 1
9) Naphthalene	10.93	128	23931	2.19	ng	# 84
11) 2-Methylnaphthalene	12.79	142	13470	1.97	ng	92
16) Acenaphthene	14.81	154	466	0.07	ng	# 75
17) Fluorene	15.81	166	437	0.05	ng	# 88
20) Pentachlorophenol	17.19	266	29	0.29	ng	# 78
21) Phenanthrene	17.56	178	737	0.05	ng	# 70
25) Pyrene	19.92	202	1769	0.03	ng	# 85
27) Benzo(a)anthracene	21.68	228	2584	0.04	ng	# 60
28) Chrysene	21.68	228	2608	0.03	ng	# 73
29) Bis(2-ethylhexyl)phthalate	21.59	149	1949	0.27	ng	# 74
30) Indeno(1,2,3-cd)pyrene	26.50	276	1642	0.05	ng	97
32) Benzo(b)fluoranthene	23.31	252	378	0.05	ng	# 3
33) Benzo(k)fluoranthene	23.31	252	378	0.02	ng	# 7
35) Dibenzo(a,h)anthracene	26.53	278	303	0.03	ng	# 3
36) Benzo(a,h,i)perylene	27.26	276	1472	0.02	ng	# 34

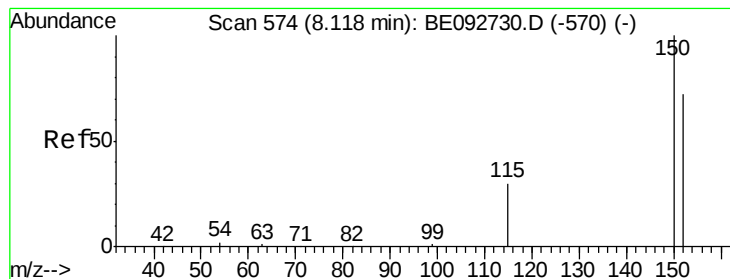
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.12 min Scan# 574

Delta R.T. -0.00 min

Lab File: BE092741.D

Acq: 15 Feb 2017 20:00

Instrument :

BNA_E

ClientSampled :

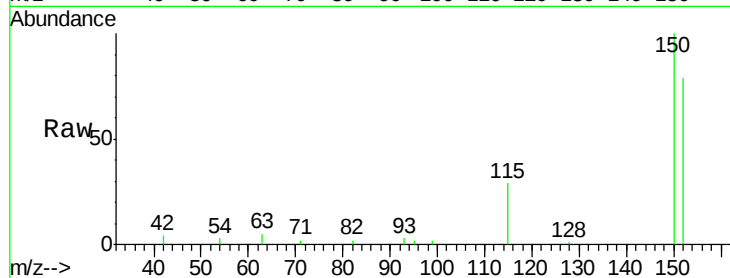
Tot Ion:152 Resp: 10369

Ion Ratio Lower Upper

152 100

150 127.3 106.0 159.0

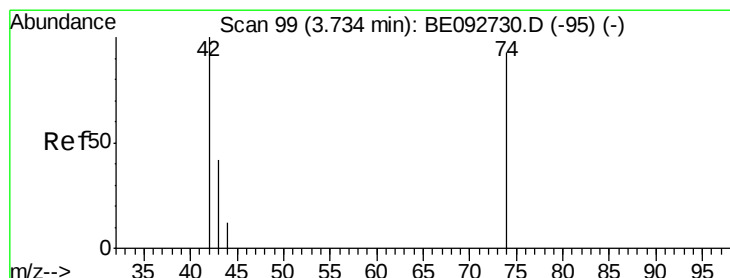
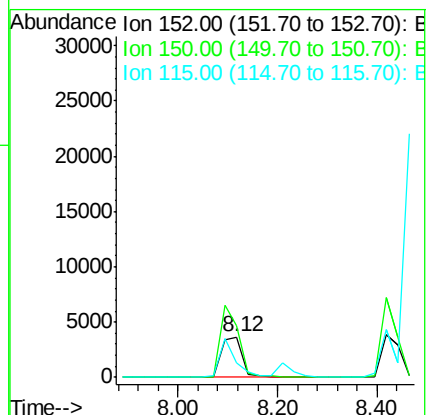
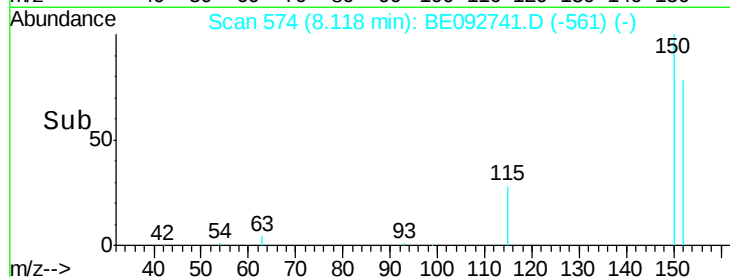
115 36.8 31.2 46.8



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: 0.64 ng

RT: 3.75 min Scan# 100

Delta R.T. 0.01 min

Lab File: BE092741.D

Acq: 15 Feb 2017 20:00

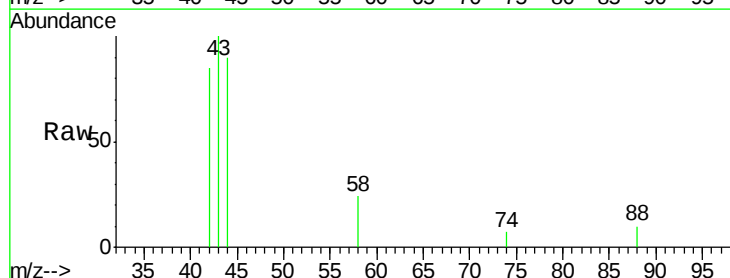
Tgt Ion: 42 Resp: 858

Ion Ratio Lower Upper

42 100

74 1.9 86.0 129.0#

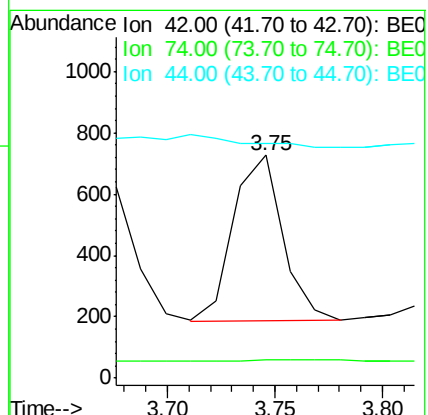
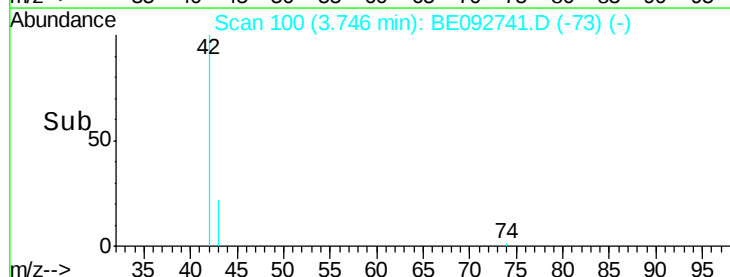
44 0.0 5.1 7.7#

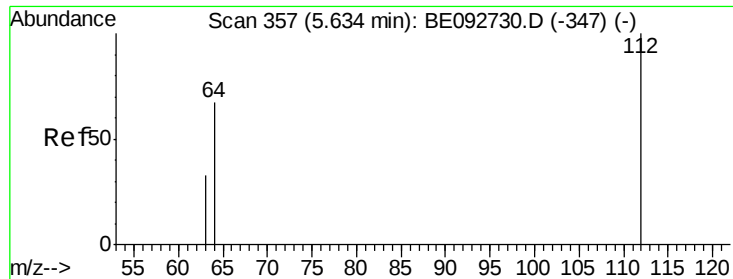


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0





#4

2-Fluorophenol

Concen: 5.15 ng

RT: 5.61 min Scan# 353

Delta R.T. -0.02 min

Lab File: BE092741.D

Acq: 15 Feb 2017 20:00

Instrument :

BNA_E

ClientSampleId :

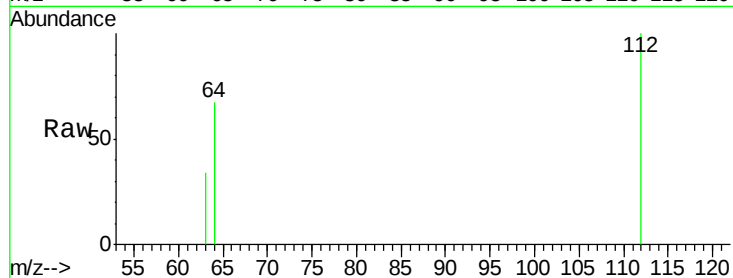
Tot Ion: 112 Resp: 10397

Ion Ratio Lower Upper

112 100

64 65.0 53.5 80.3

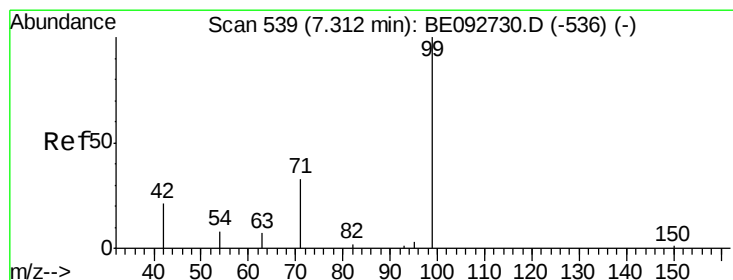
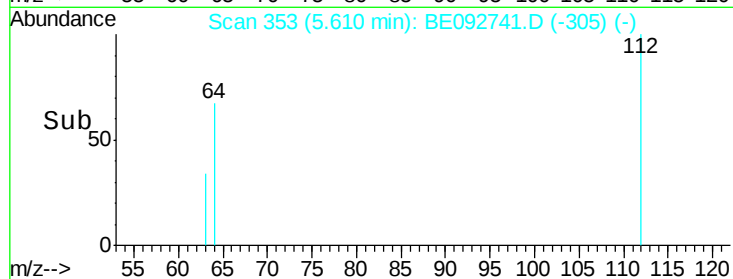
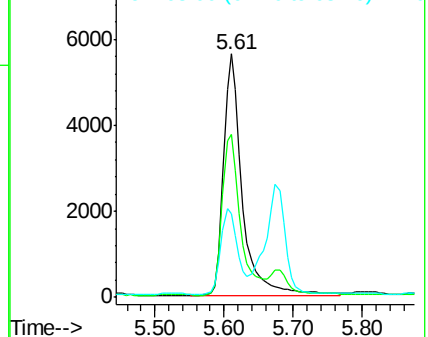
63 32.3 27.9 41.9



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#5

Phenol-d6

Concen: 3.17 ng

RT: 7.29 min Scan# 538

Delta R.T. -0.02 min

Lab File: BE092741.D

Acq: 15 Feb 2017 20:00

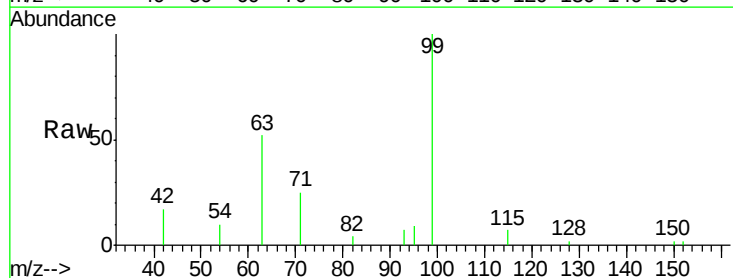
Tgt Ion: 99 Resp: 7856

Ion Ratio Lower Upper

99 100

42 0.0 16.0 24.0#

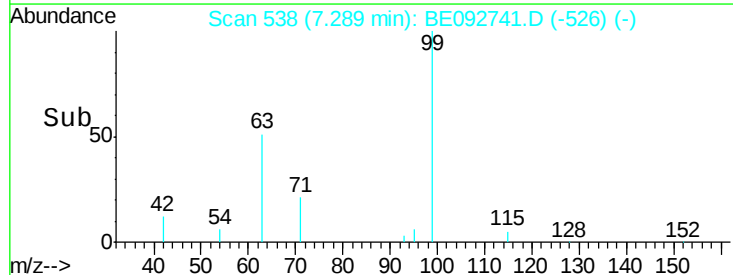
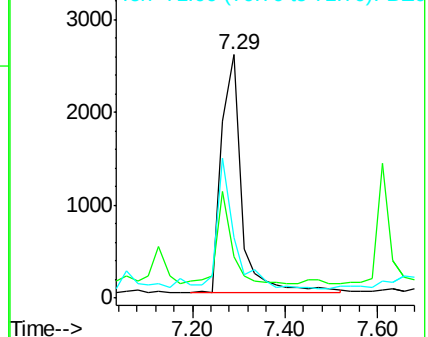
71 0.0 30.6 45.8#

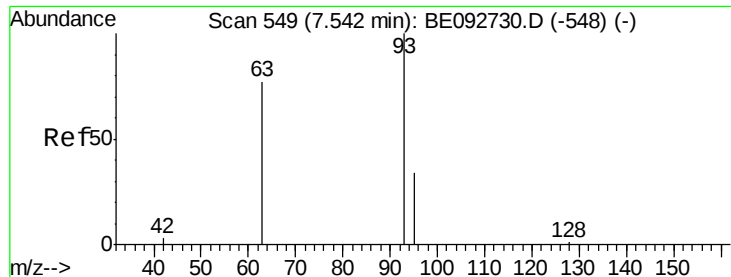


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#6

bis(2-Chloroethyl)ether

Concen: 0.03 ng

RT: 7.57 min Scan# 550

Delta R.T. 0.02 min

Lab File: BE092741.D

Acq: 15 Feb 2017 20:00

Instrument :

BNA_E

ClientSampled :

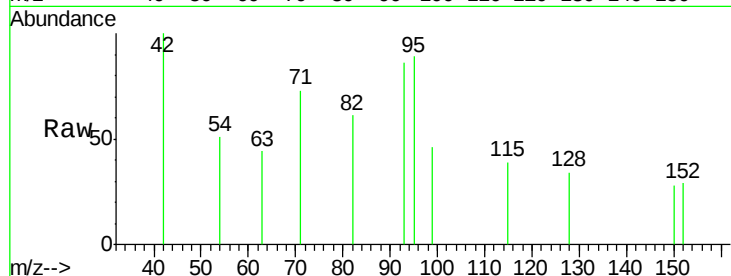
Tot Ion: 93 Resp: 69

Ion Ratio Lower Upper

93 100

63 0.0 71.6 107.4#

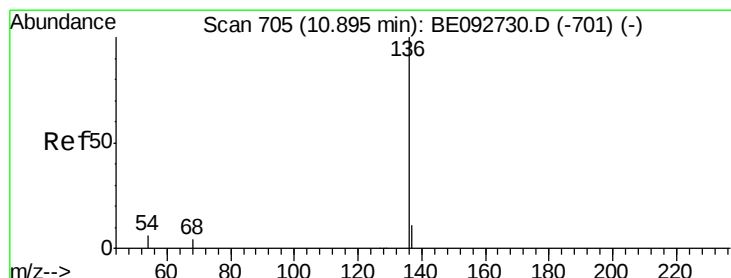
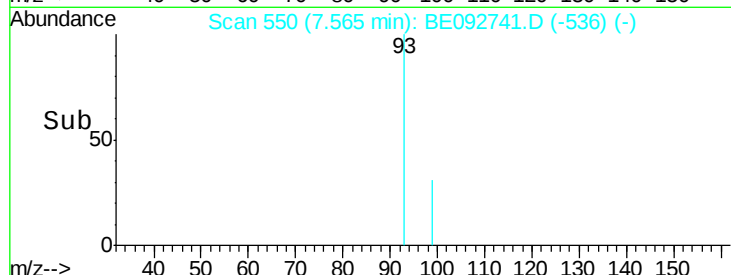
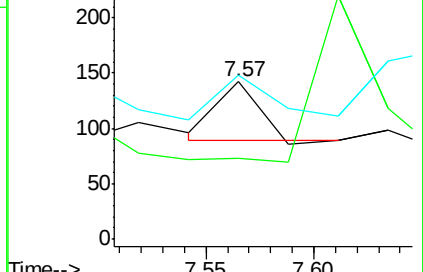
95 105.8 24.0 36.0#



Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.88 min Scan# 704

Delta R.T. -0.02 min

Lab File: BE092741.D

Acq: 15 Feb 2017 20:00

Tgt Ion: 136 Resp: 50394

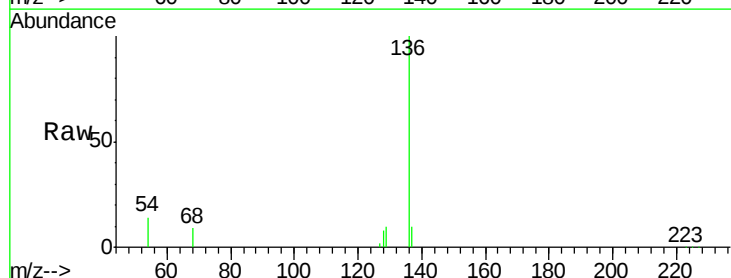
Ion Ratio Lower Upper

136 100

137 10.2 8.2 12.4

54 14.0 9.6 14.4

68 9.2 6.7 10.1

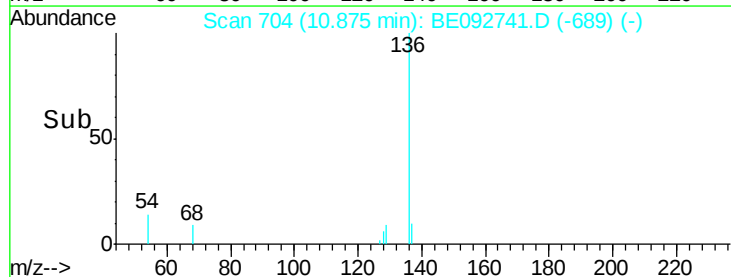
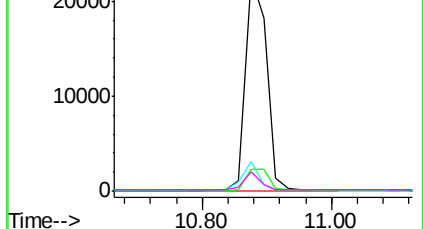


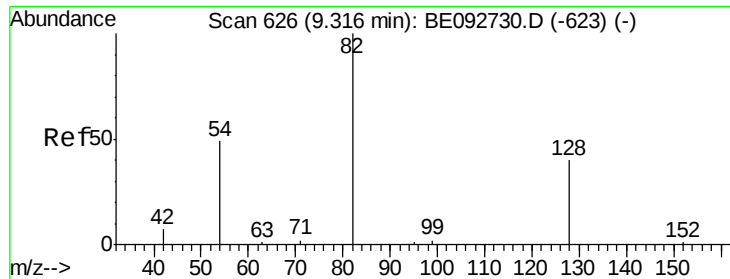
Abundance Ion 136.00 (135.70 to 136.70): E

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

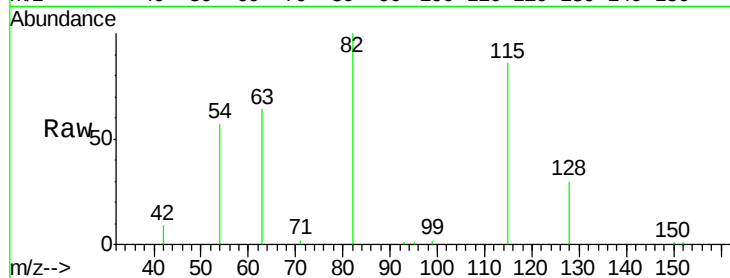




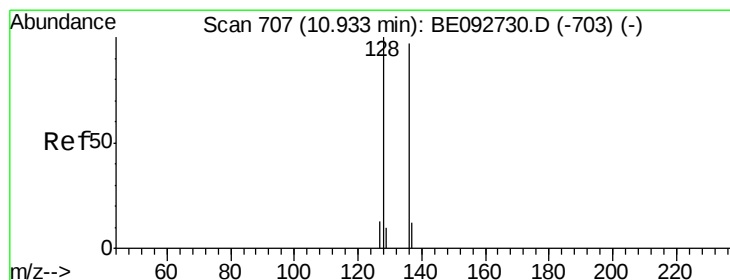
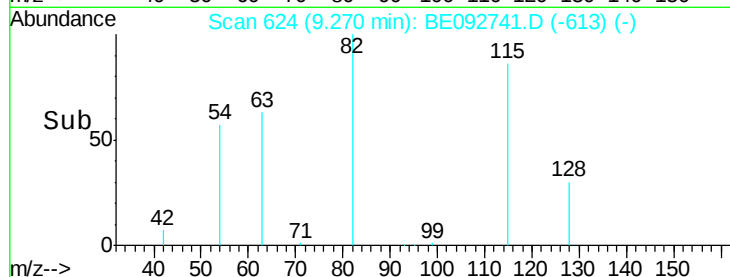
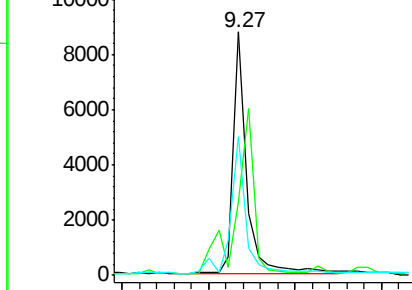
#8
 Nitrobenzene-d5
 Concen: 5.42 ng
 RT: 9.27 min Scan# 624
 Delta R.T. -0.05 min
 Lab File: BE092741.D
 Acq: 15 Feb 2017 20:00

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion	82	Resp	18474
Ion Ratio	Lower	Upper	
82	100		
128	30.3	39.0	58.4#
54	56.9	44.8	67.2

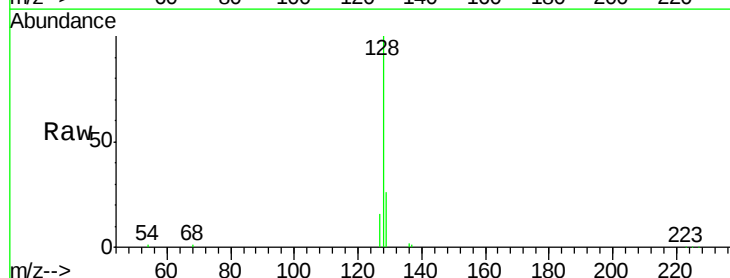


Abundance Ion 82.00 (81.70 to 82.70): BE0
 Ion 128.00 (127.70 to 128.70): BE0
 Ion 54.00 (53.70 to 54.70): BE0

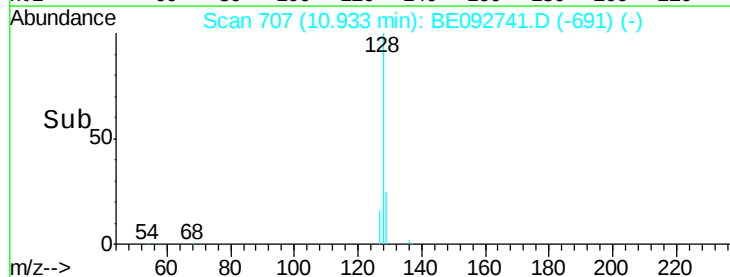
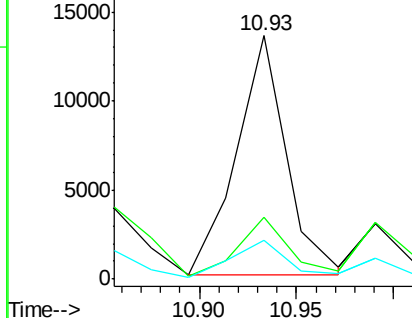


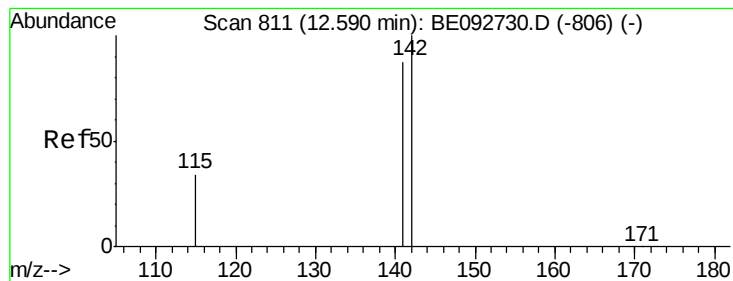
#9
 Naphthalene
 Concen: 2.19 ng
 RT: 10.93 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: BE092741.D
 Acq: 15 Feb 2017 20:00

Tgt Ion	128	Resp	23931
Ion Ratio	Lower	Upper	
128	100		
129	25.6	11.2	16.8#
127	16.1	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





#11

2-Methylnaphthalene

Concen: 1.97 ng

RT: 12.79 min Scan# 828

Delta R.T. 0.20 min

Lab File: BE092741.D

Acq: 15 Feb 2017 20:00

Instrument :

BNA_E

ClientSampleId :

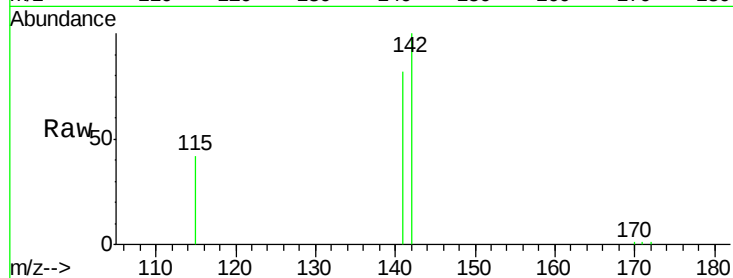
Tot Ion:142 Resp: 13470

Ion Ratio Lower Upper

142 100

141 81.7 73.7 110.5

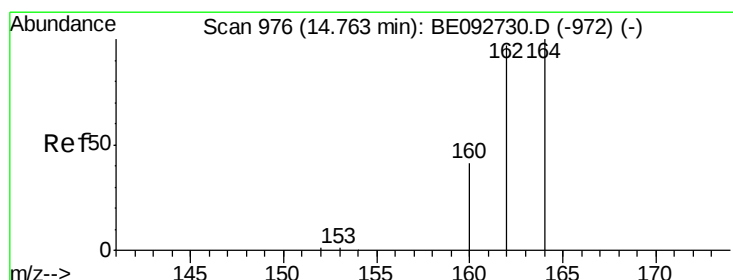
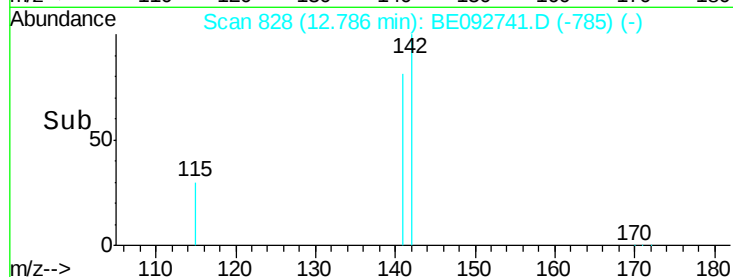
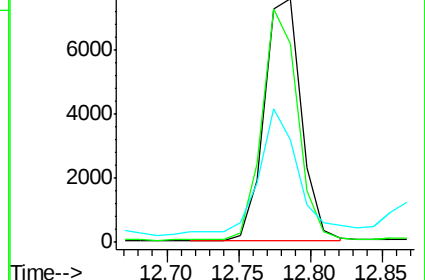
115 42.3 34.0 51.0



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: 14.76 min Scan# 977

Delta R.T. 0.00 min

Lab File: BE092741.D

Acq: 15 Feb 2017 20:00

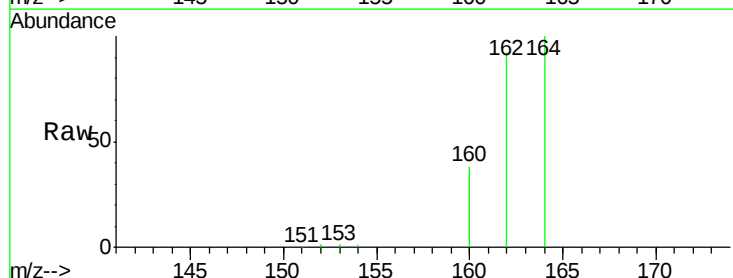
Tgt Ion:164 Resp: 31516

Ion Ratio Lower Upper

164 100

162 91.6 71.4 107.0

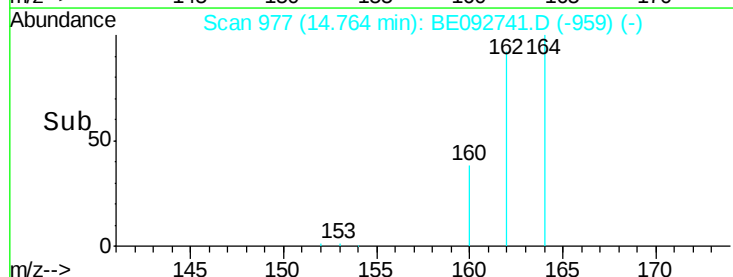
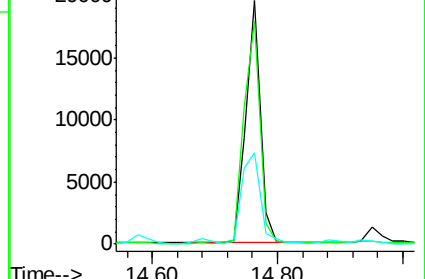
160 37.6 27.4 41.2

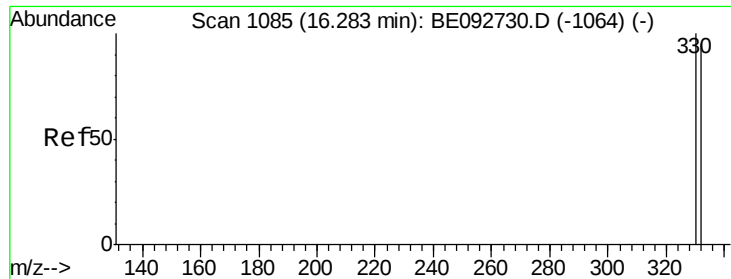


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

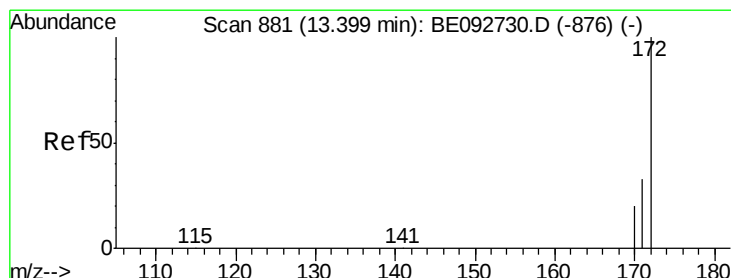
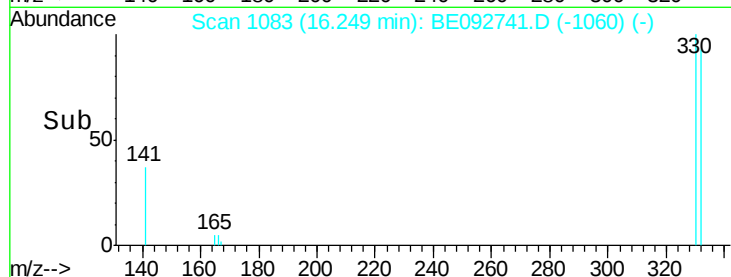
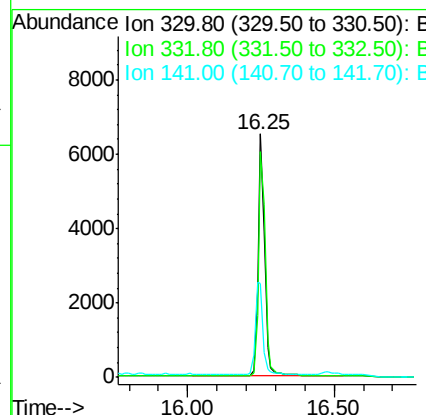
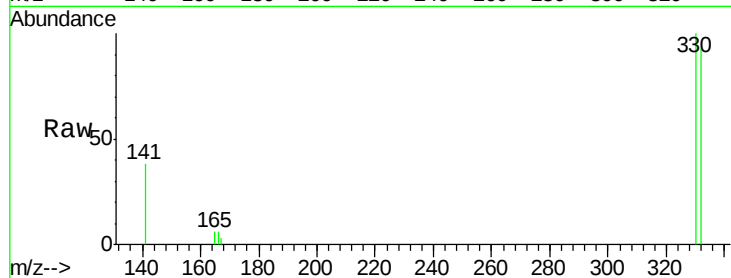




#13
 2,4,6-Tribromophenol
 Concen: 14.95 ng
 RT: 16.25 min Scan# 1083
 Delta R.T. -0.03 min
 Lab File: BE092741.D
 Acq: 15 Feb 2017 20:00

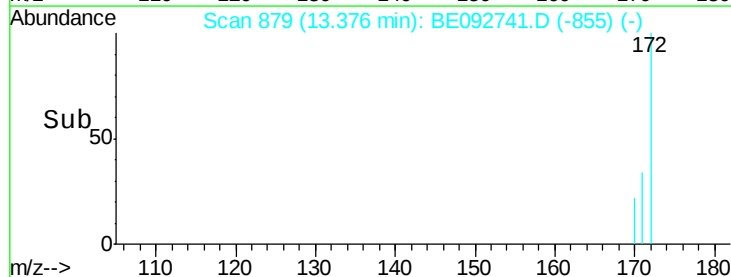
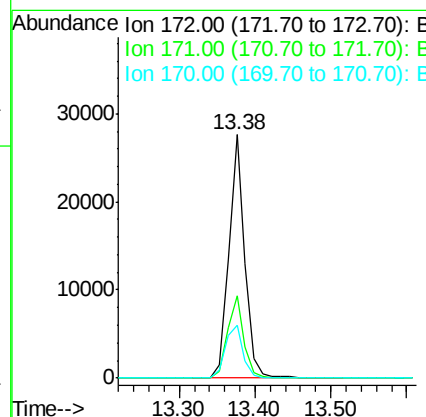
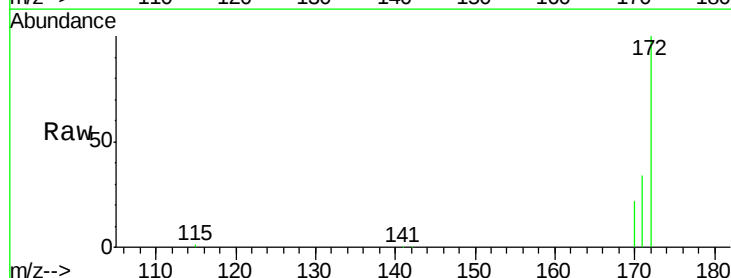
Instrument :
 BNA_E
 ClientSampled :

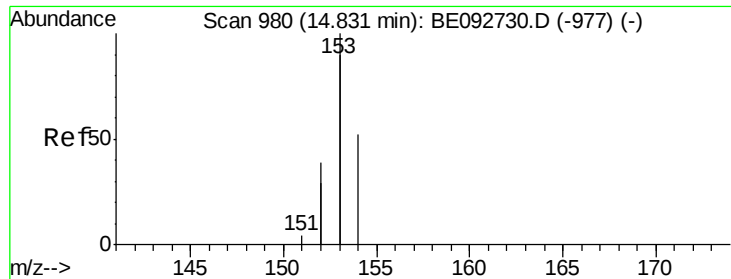
Tot Ion:330 Resp: 9997
 Ion Ratio Lower Upper
 330 100
 332 98.3 75.4 113.0
 141 44.3 31.0 46.6



#14
 2-Fluorobiphenyl
 Concen: 5.28 ng
 RT: 13.38 min Scan# 879
 Delta R.T. -0.02 min
 Lab File: BE092741.D
 Acq: 15 Feb 2017 20:00

Tgt Ion:172 Resp: 40550
 Ion Ratio Lower Upper
 172 100
 171 33.6 30.1 45.1
 170 21.7 21.8 32.6#





#16

Acenaphthene

Concen: 0.07 ng

RT: 14.81 min Scan# 980

Delta R.T. -0.02 min

Lab File: BE092741.D

Acq: 15 Feb 2017 20:00

Instrument :

BNA_E

ClientSampleId :

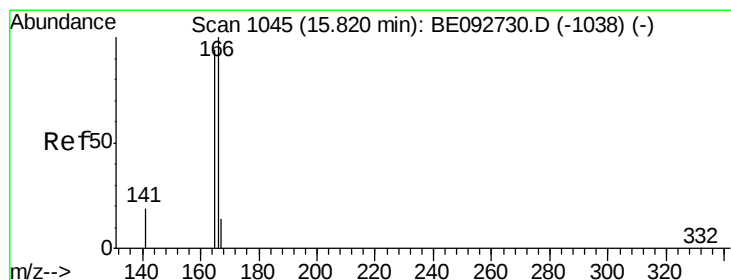
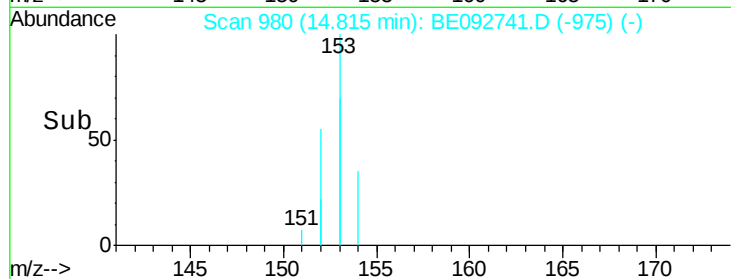
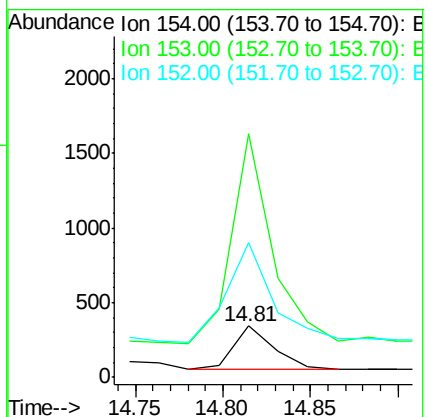
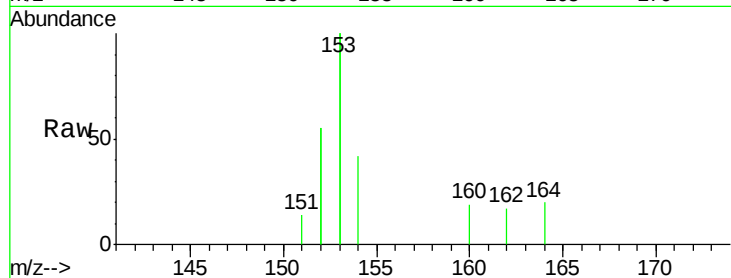
Tot Ion:154 Resp: 466

Ion Ratio Lower Upper

154 100

153 492.9 350.8 526.2

152 263.1 171.1 256.7#



#17

Fluorene

Concen: 0.05 ng

RT: 15.81 min Scan# 1045

Delta R.T. -0.01 min

Lab File: BE092741.D

Acq: 15 Feb 2017 20:00

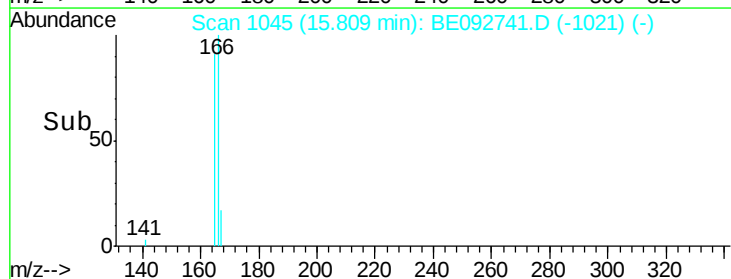
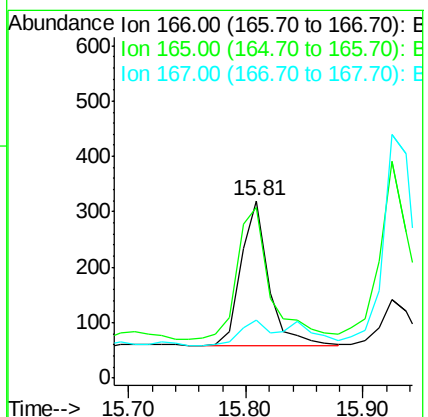
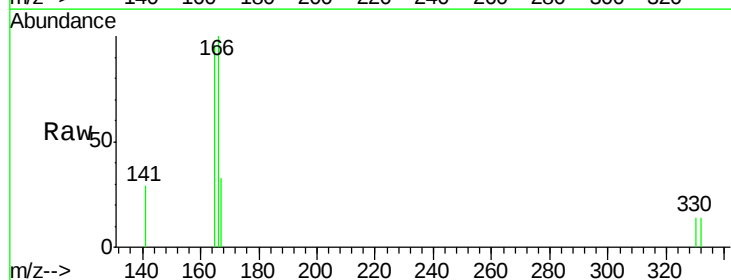
Tgt Ion:166 Resp: 437

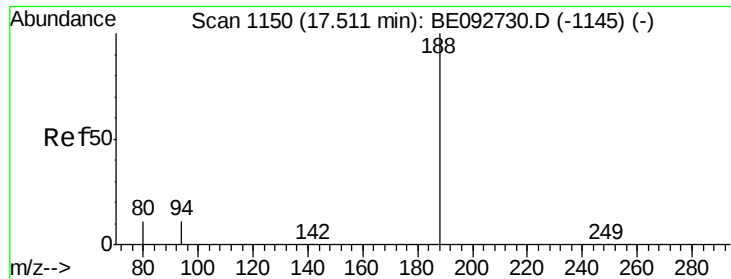
Ion Ratio Lower Upper

166 100

165 108.0 78.2 117.4

167 22.7 11.0 16.4#





#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.51 min Scan# 1151

Delta R.T. 0.00 min

Lab File: BE092741.D

Acq: 15 Feb 2017 20:00

Instrument :

BNA_E

ClientSampled :

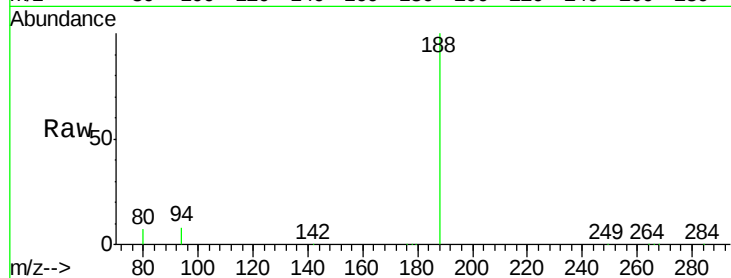
Tot Ion:188 Resp: 66442

Ion Ratio Lower Upper

188 100

94 7.7 3.2 4.8#

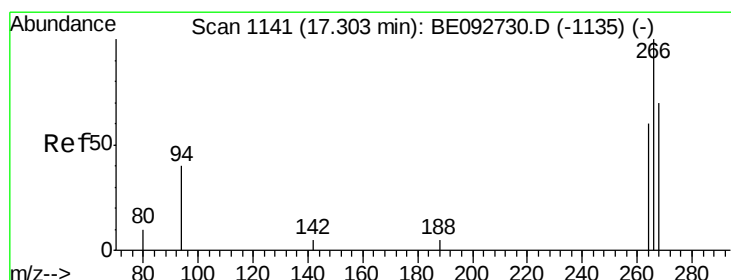
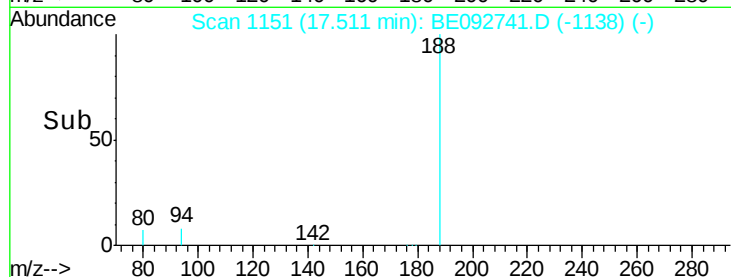
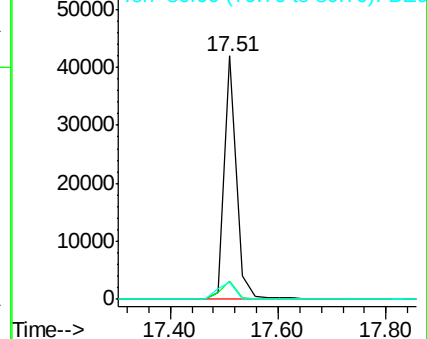
80 7.0 2.6 3.8#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#20

Pentachlorophenol

Concen: 0.29 ng

RT: 17.19 min Scan# 1137

Delta R.T. -0.11 min

Lab File: BE092741.D

Acq: 15 Feb 2017 20:00

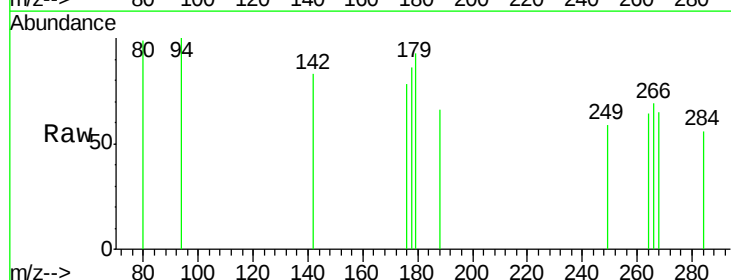
Tgt Ion:266 Resp: 29

Ion Ratio Lower Upper

266 100

268 94.5 62.5 93.7#

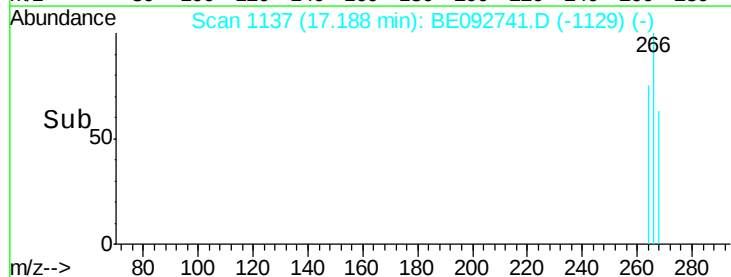
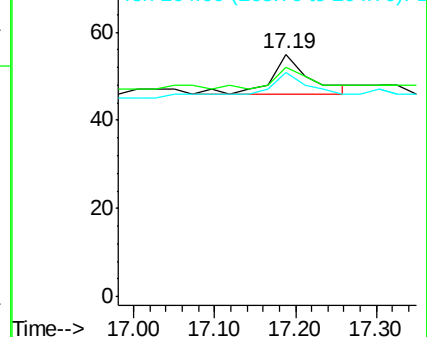
264 92.7 57.2 85.8#

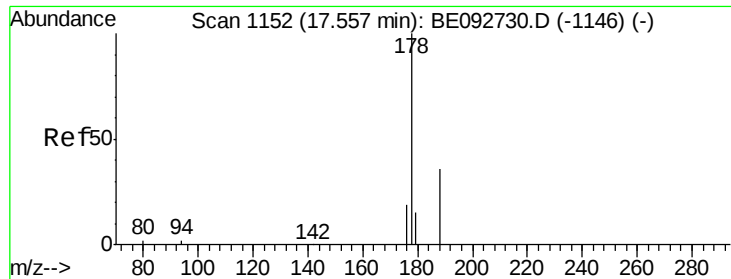


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#21

Phenanthrene

Concen: 0.05 ng

RT: 17.56 min Scan# 1153

Delta R.T. 0.00 min

Lab File: BE092741.D

Acq: 15 Feb 2017 20:00

Instrument :

BNA_E

ClientSampled :

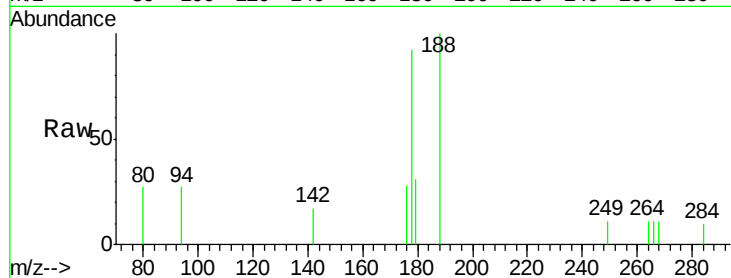
Tot Ion:178 Resp: 737

Ion Ratio Lower Upper

178 100

176 18.7 15.8 23.8

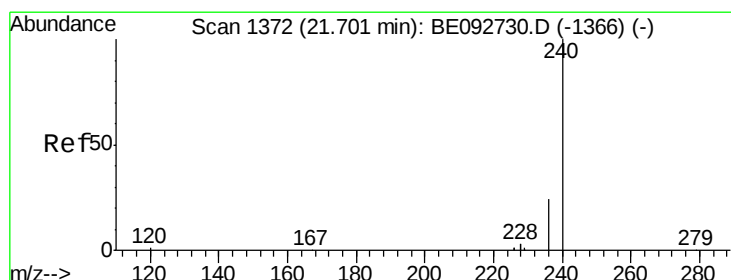
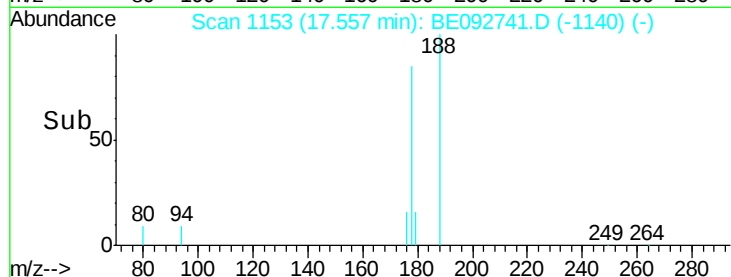
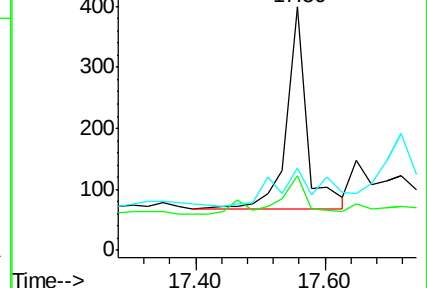
179 46.1 16.0 24.0#



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



#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.70 min Scan# 1373

Delta R.T. -0.00 min

Lab File: BE092741.D

Acq: 15 Feb 2017 20:00

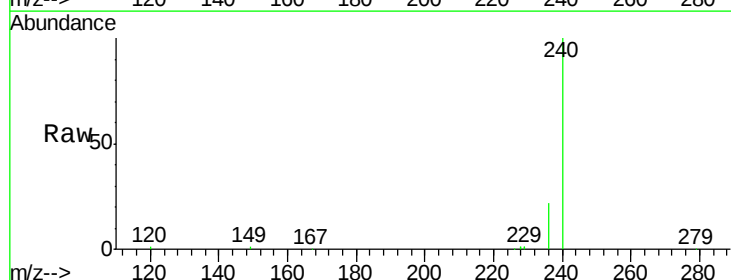
Tgt Ion:240 Resp: 68392

Ion Ratio Lower Upper

240 100

120 1.1 2.6 4.0#

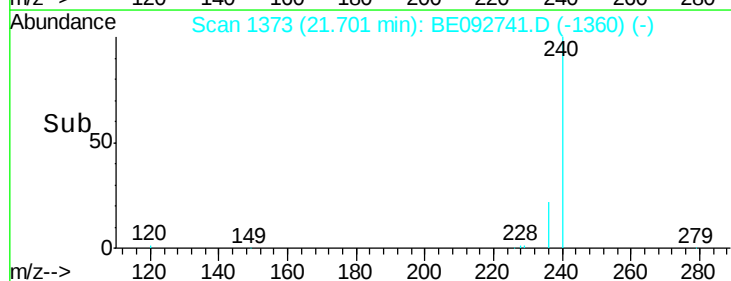
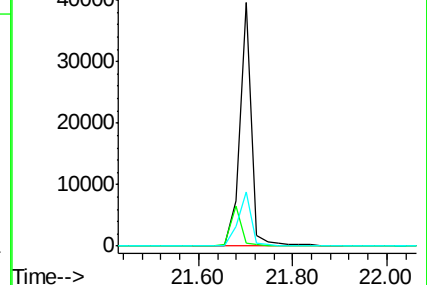
236 22.3 24.6 37.0#

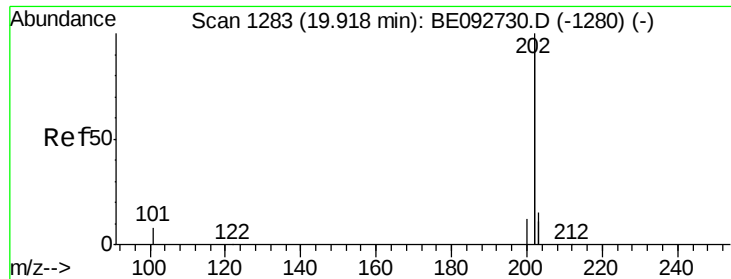


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

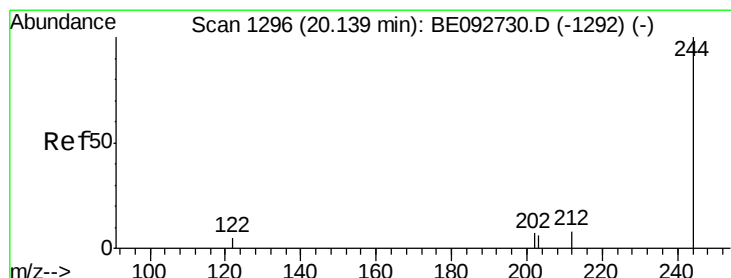
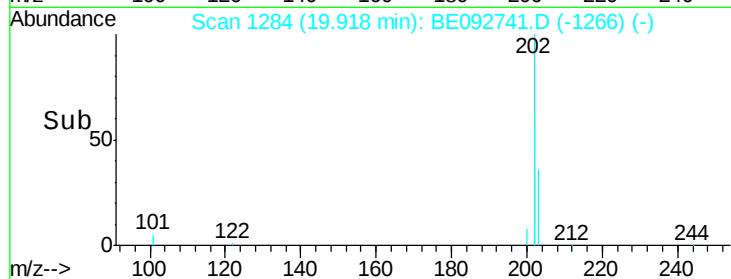
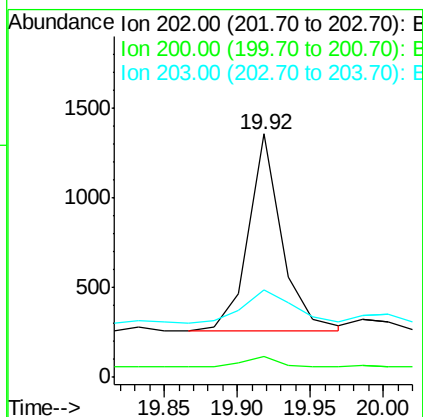
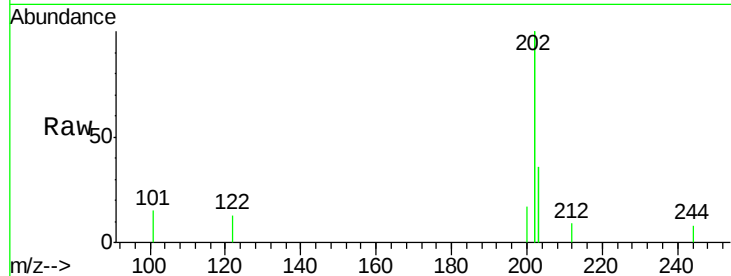




#25
Pvrene
Concen: 0.03 ng
RT: 19.92 min Scan# 1284
Delta R.T. 0.00 min
Lab File: BE092741.D
Acq: 15 Feb 2017 20:00

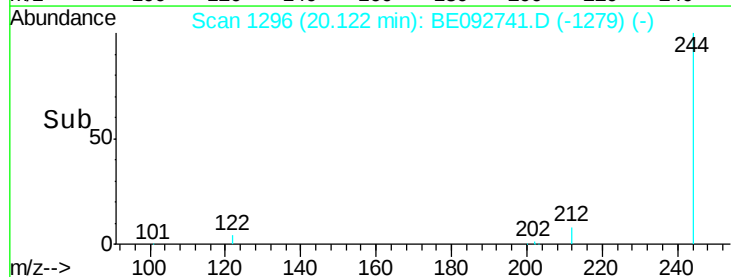
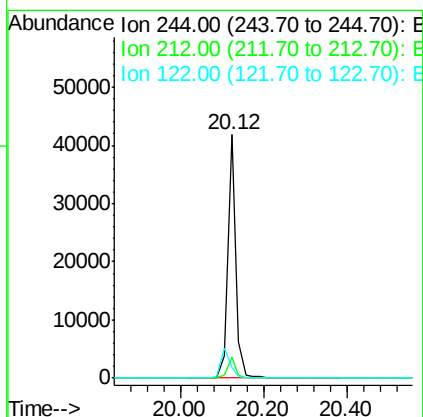
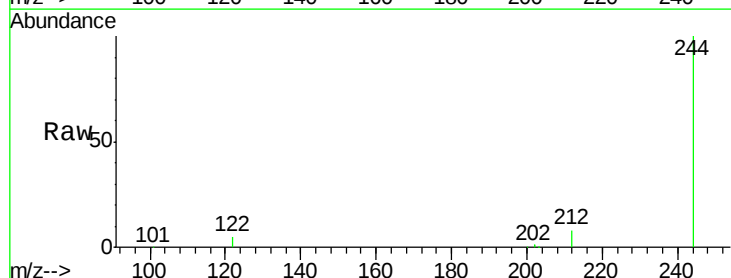
Instrument :
BNA_E
ClientSampleId :

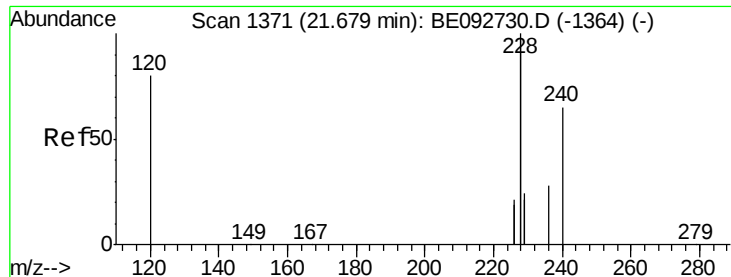
Tot Ion:202 Resp: 1769
Ion Ratio Lower Upper
202 100
200 5.5 4.2 6.4
203 26.1 13.9 20.9#



#26
Terphenyl-d14
Concen: 6.23 ng
RT: 20.12 min Scan# 1296
Delta R.T. -0.02 min
Lab File: BE092741.D
Acq: 15 Feb 2017 20:00

Tgt Ion:244 Resp: 54366
Ion Ratio Lower Upper
244 100
212 8.4 6.7 10.1
122 4.6 3.6 5.4





#27

Benzo(a)anthracene

Concen: 0.04 ng

RT: 21.68 min Scan# 1372

Delta R.T. -0.00 min

Lab File: BE092741.D

Acq: 15 Feb 2017 20:00

Instrument :

BNA_E

ClientSampleId :

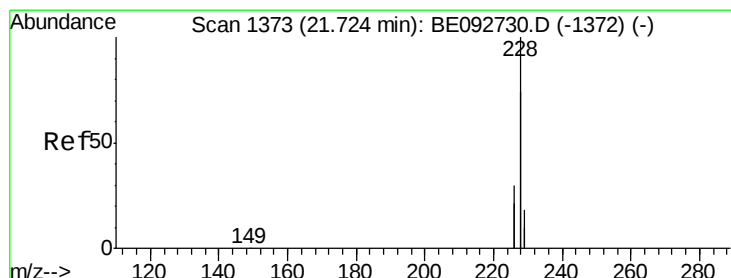
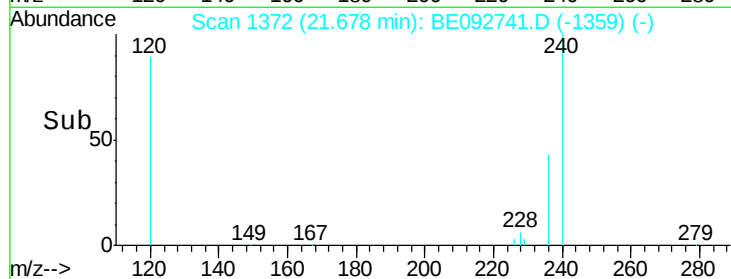
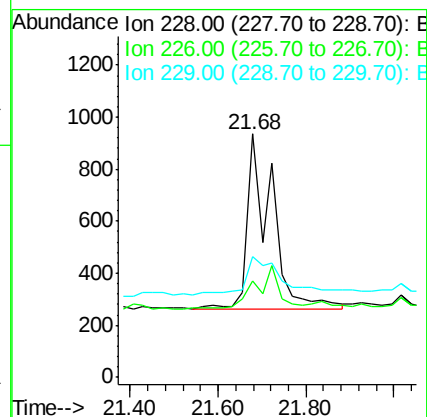
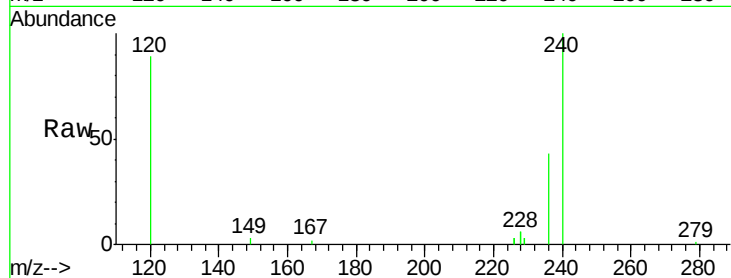
Tot Ion:228 Resp: 2584

Ion Ratio Lower Upper

228 100

226 39.5 23.6 35.4#

229 49.6 13.3 19.9#



#28

Chrysene

Concen: 0.03 ng

RT: 21.68 min Scan# 1372

Delta R.T. -0.05 min

Lab File: BE092741.D

Acq: 15 Feb 2017 20:00

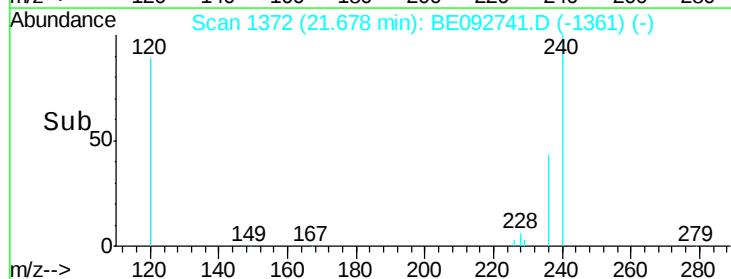
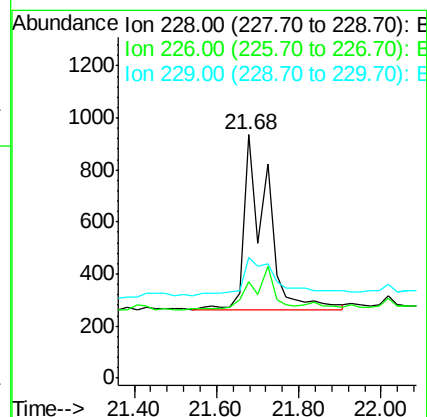
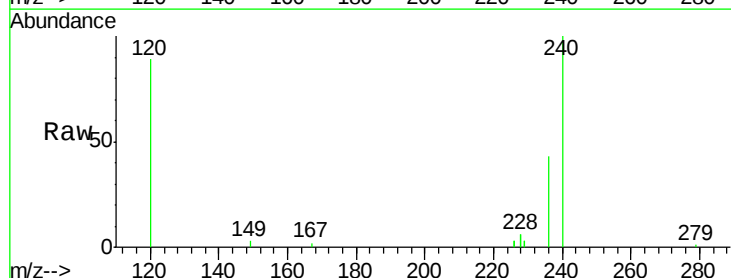
Tgt Ion:228 Resp: 2608

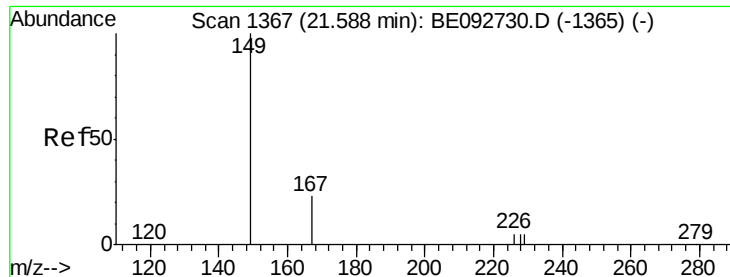
Ion Ratio Lower Upper

228 100

226 39.5 36.3 54.5

229 49.6 10.6 16.0#





#29

Bis(2-ethylhexyl)phthalate

Concen: 0.27 ng

RT: 21.59 min Scan# 1368

Delta R.T. 0.00 min

Lab File: BE092741.D

Acq: 15 Feb 2017 20:00

Instrument :

BNA_E

ClientSampleId :

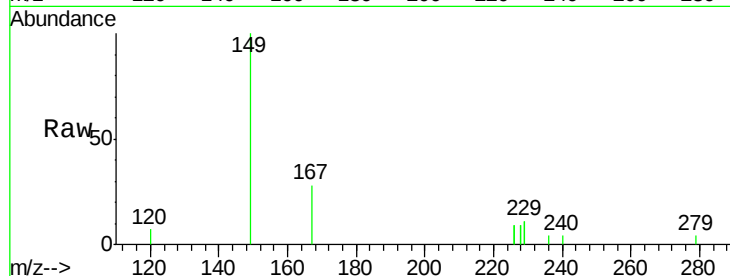
Tot Ion:149 Resp: 1949

Ion Ratio Lower Upper

149 100

167 23.7 16.0 24.0

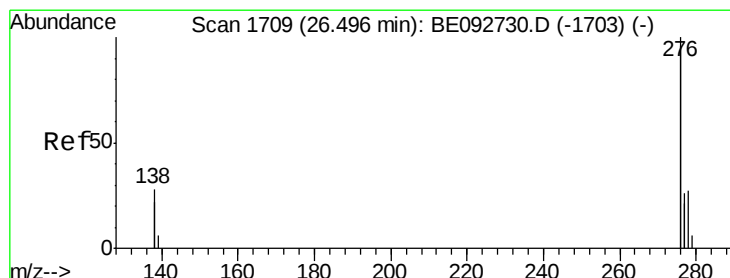
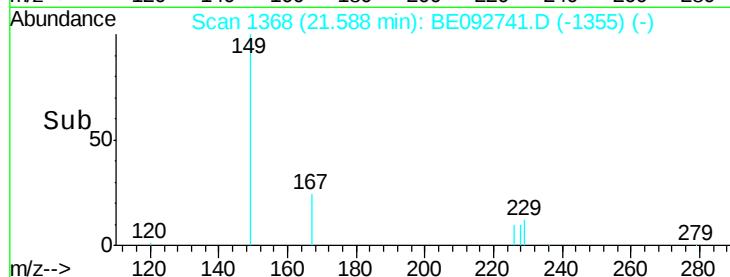
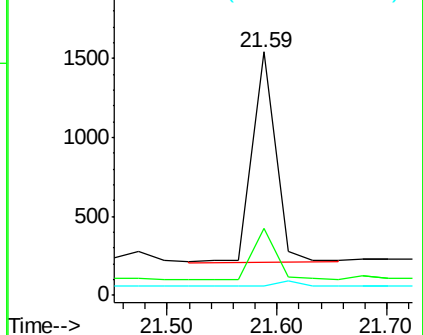
279 0.0 16.0 24.0#



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: 0.05 ng

RT: 26.50 min Scan# 1710

Delta R.T. 0.00 min

Lab File: BE092741.D

Acq: 15 Feb 2017 20:00

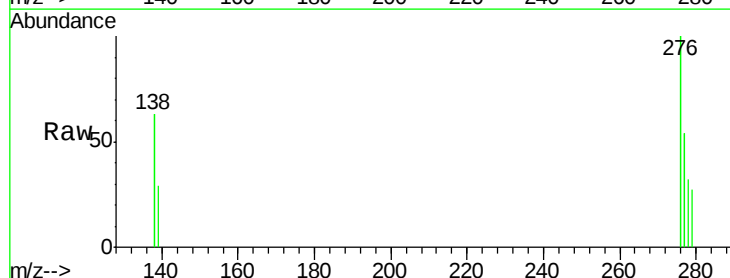
Tgt Ion:276 Resp: 1642

Ion Ratio Lower Upper

276 100

138 24.4 20.3 30.5

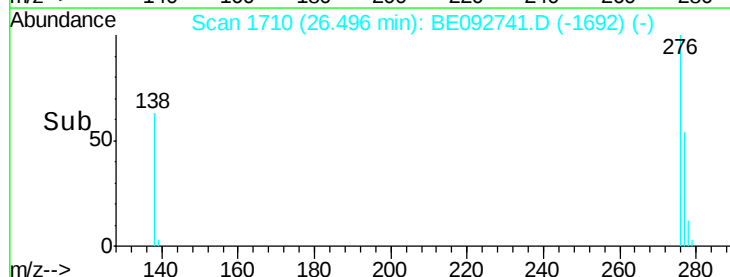
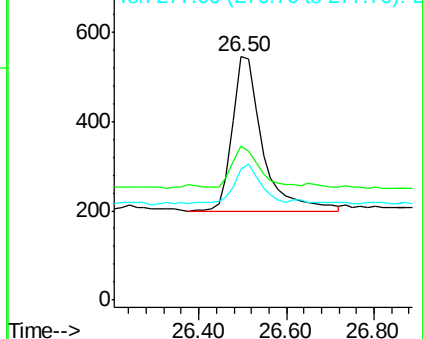
277 22.7 19.7 29.5

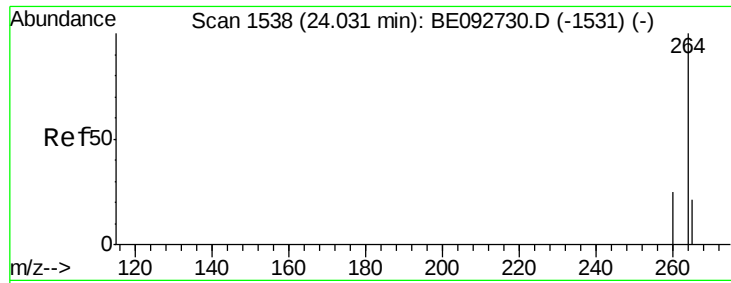


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

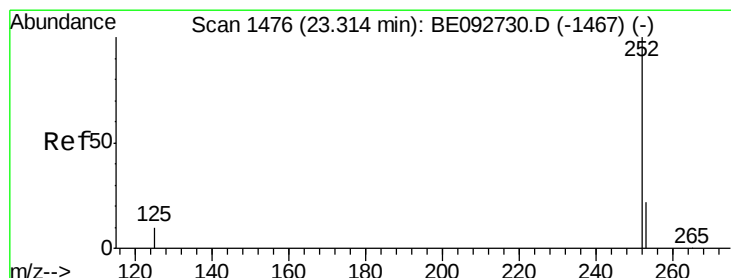
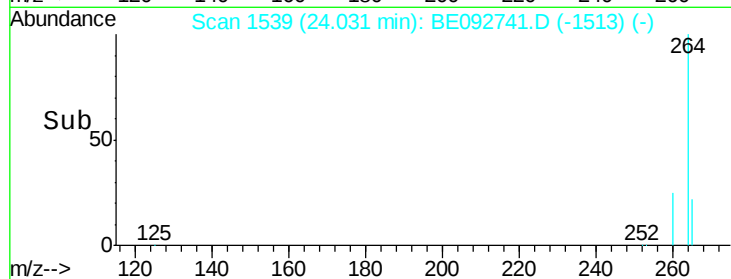
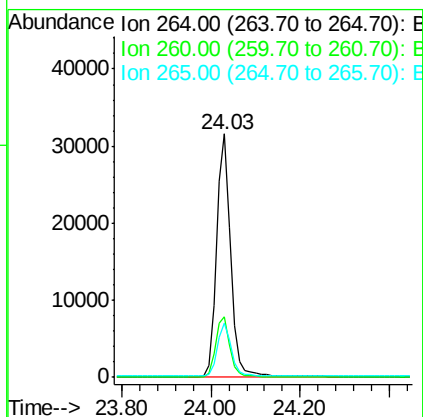
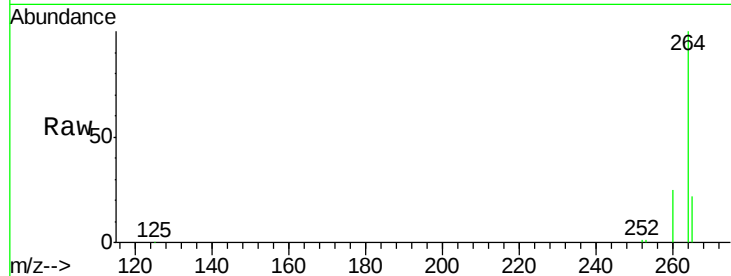




#31
Pervlene-d12
Concen: 5.00 ng
RT: 24.03 min Scan# 1539
Delta R.T. -0.00 min
Lab File: BE092741.D
Acq: 15 Feb 2017 20:00

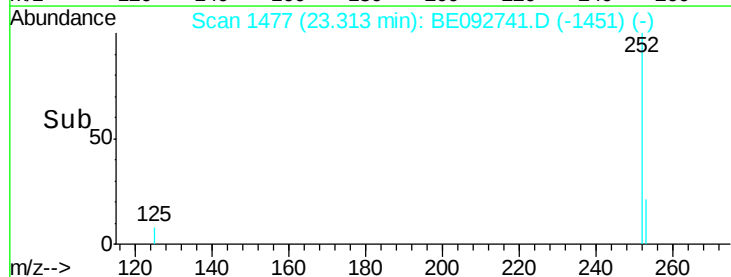
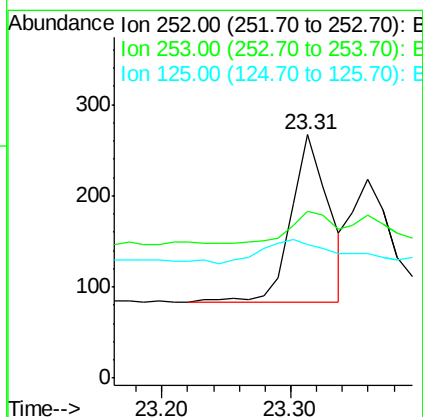
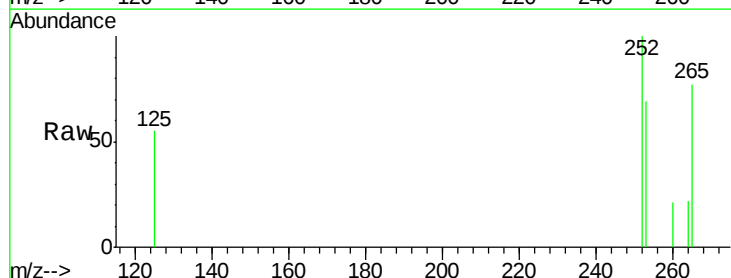
Instrument :
BNA_E
ClientSampleId :

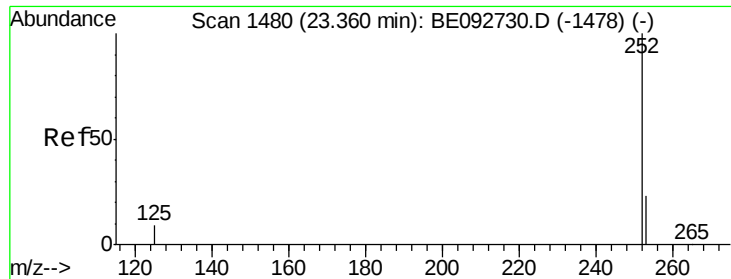
Tot Ion:264 Resp: 69365
Ion Ratio Lower Upper
264 100
260 24.8 20.1 30.1
265 22.2 17.9 26.9



#32
Benzo(b)fluoranthene
Concen: 0.05 ng
RT: 23.31 min Scan# 1477
Delta R.T. 0.00 min
Lab File: BE092741.D
Acq: 15 Feb 2017 20:00

Tgt Ion:252 Resp: 378
Ion Ratio Lower Upper
252 100
253 68.5 18.7 28.1#
125 54.7 10.5 15.7#





#33

Benzo(k)fluoranthene

Concen: 0.02 ng

RT: 23.31 min Scan# 1477

Delta R.T. -0.05 min

Lab File: BE092741.D

Acq: 15 Feb 2017 20:00

Instrument :

BNA_E

ClientSampleId :

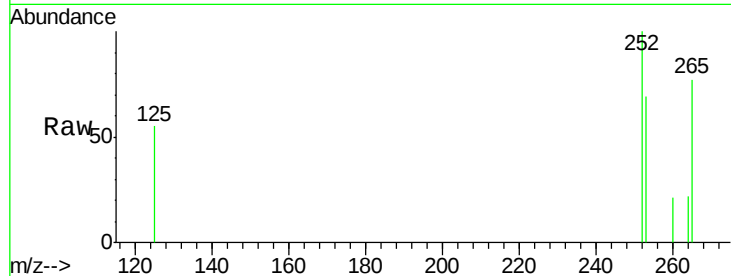
Tot Ion:252 Resp: 378

Ion Ratio Lower Upper

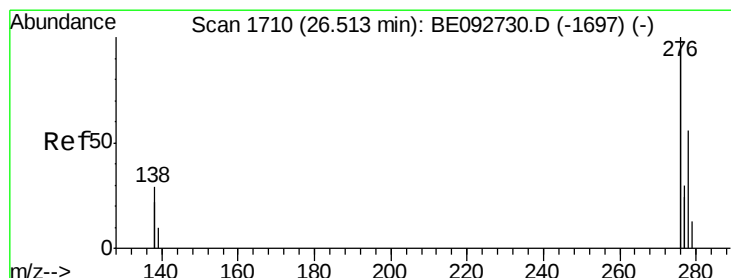
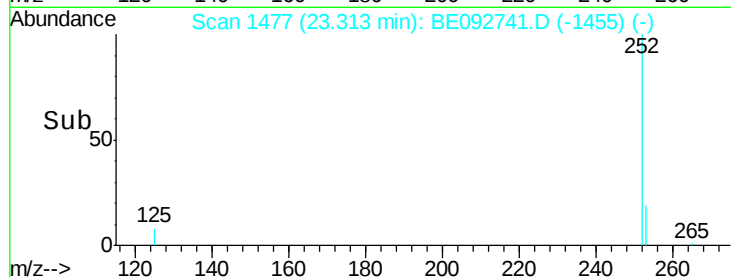
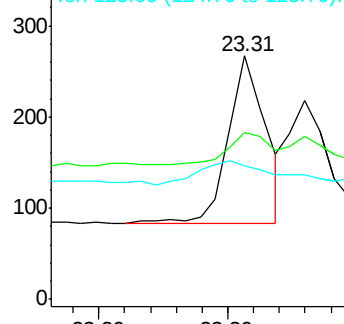
252 100

253 68.5 20.3 30.5#

125 54.7 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



#35

Dibenzo(a,h)anthracene

Concen: 0.03 ng

RT: 26.53 min Scan# 1712

Delta R.T. 0.02 min

Lab File: BE092741.D

Acq: 15 Feb 2017 20:00

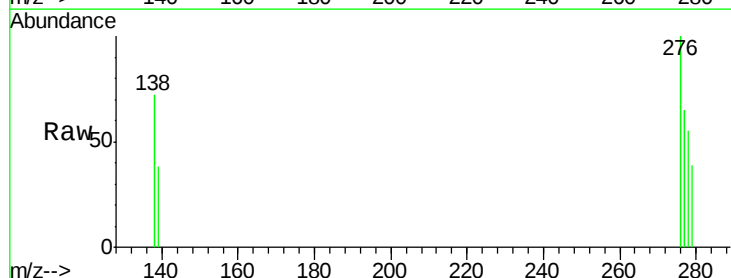
Tgt Ion:278 Resp: 303

Ion Ratio Lower Upper

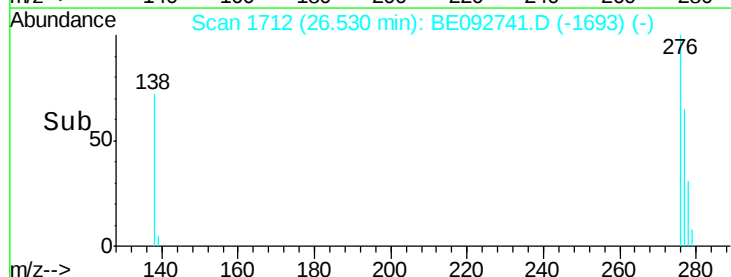
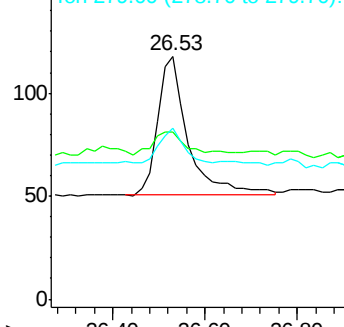
278 100

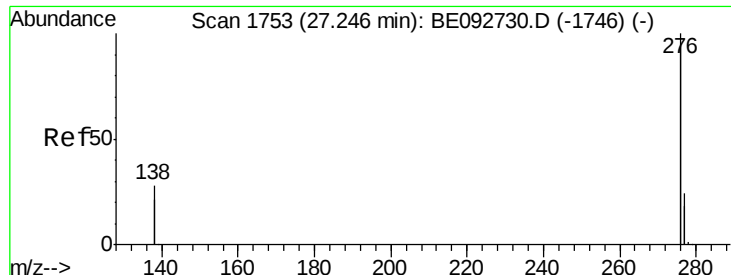
139 68.6 13.8 20.8#

279 70.3 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





#36

Benzo(a,h,i)perylene

Concen: 0.02 ng

RT: 27.26 min Scan# 1755

Delta R.T. 0.02 min

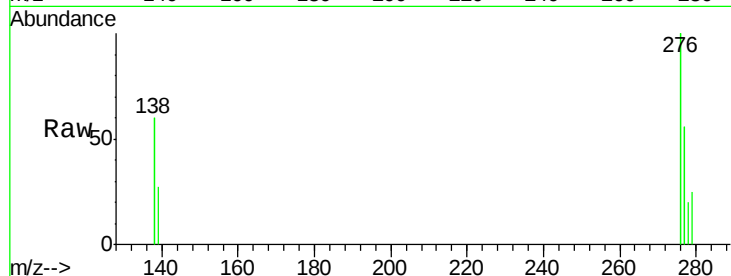
Lab File: BE092741.D

Acq: 15 Feb 2017 20:00

Instrument :

BNA_E

ClientSampleId :



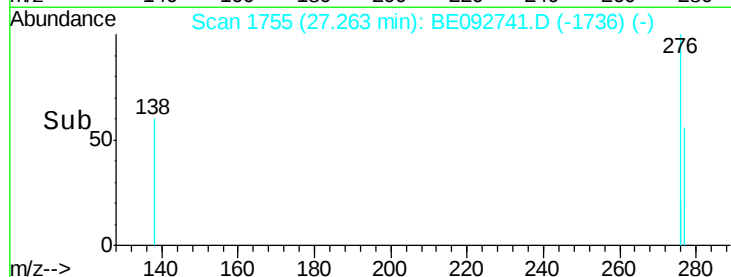
Tot Ion: 276 Resp: 1472

Ion Ratio Lower Upper

276 100

277 55.6 19.8 29.8#

138 59.8 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

