

Data Path : Z:\HPCHEM1\BNA E\Data\BE051917\
 Data File : BE093055.D
 Acq On : 19 May 2017 11:28
 Operator : SJ/MA
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: May 19 17:51:44 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE051517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 15 13:35:57 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.75	152	658	0.40	ng	0.00
7) Naphthalene-d8	10.53	136	2938	0.40	ng	0.00
13) Acenaphthene-d10	14.39	164	1501	0.40	ng	0.00
19) Phenanthrene-d10	17.13	188	4295	0.40	ng	0.00
27) Chrysene-d12	21.27	240	4961	0.40	ng	-0.02
34) Perylene-d12	23.69	264	4262	0.40	ng	-0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.36	112	848	0.42	ng	0.00
5) Phenol-d6	6.92	99	1178	0.43	ng	0.00
8) Nitrobenzene-d5	8.88	82	1086	0.42	ng	0.00
11) 2-Methylnaphthalene-d10	12.11	152	1746	0.41	ng	0.00
14) 2,4,6-Tribromophenol	15.88	330	199	0.45	ng	0.00
15) 2-Fluorobiphenyl	13.01	172	2422	0.39	ng	0.00
25) Fluoranthene-d10	19.14	212	4698	0.42	ng	0.00
29) Terphenyl-d14	19.74	244	3536	0.38	ng	0.00

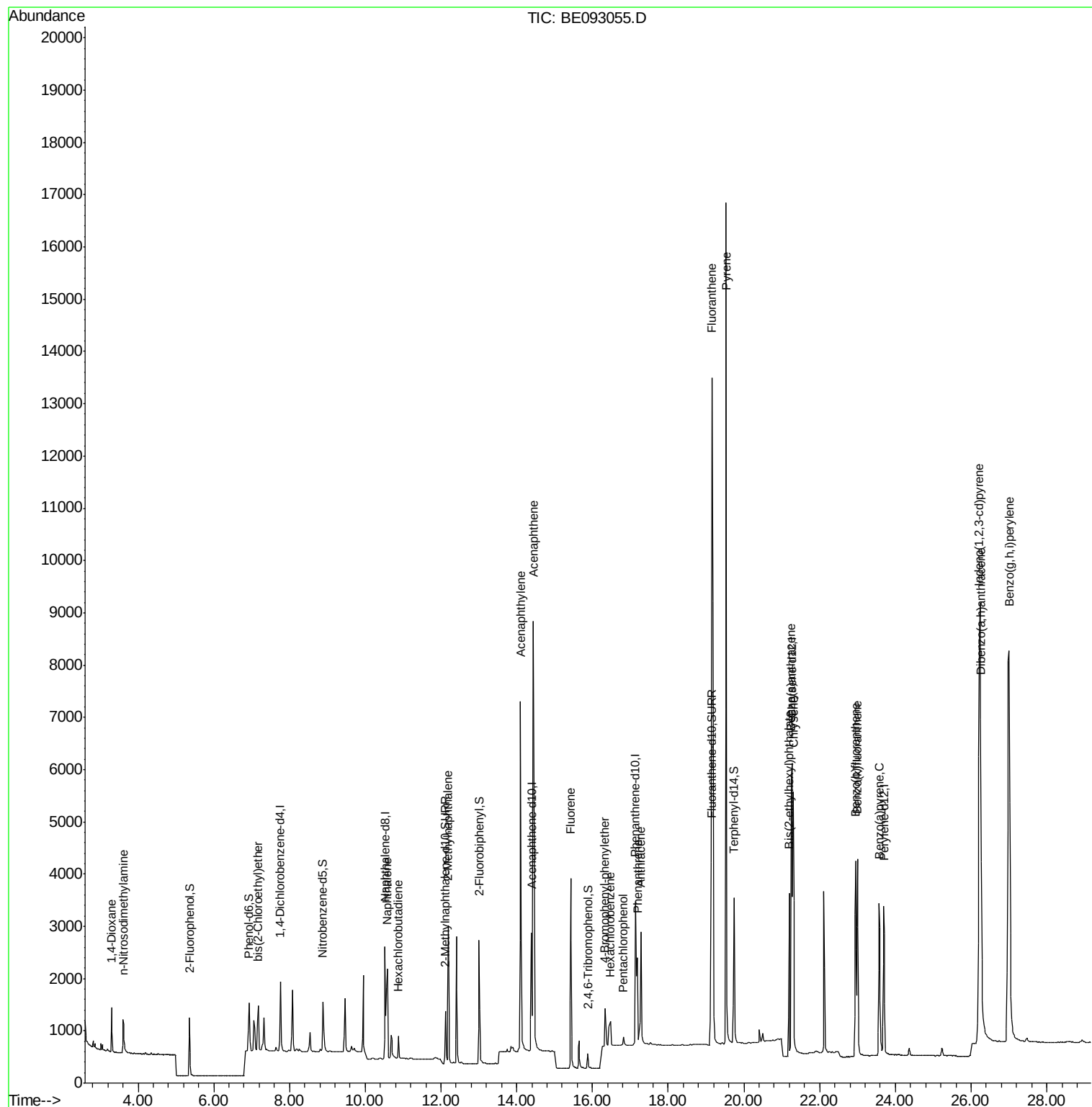
Target Compounds					Qvalue	
2) 1,4-Dioxane	3.31	88	534	0.41	ng	98
3) n-Nitrosodimethylamine	3.61	42	505	0.42	ng	97
6) bis(2-Chloroethyl)ether	7.18	93	919	0.41	ng	# 100
9) Naphthalene	10.58	128	3022	0.39	ng	99
10) Hexachlorobutadiene	10.87	225	397	0.39	ng	96
12) 2-Methylnaphthalene	12.19	142	1920	0.40	ng	99
16) Acenaphthylene	14.10	152	10420	0.40	ng	99
17) Acenaphthene	14.44	154	1885	0.40	ng	98
18) Fluorene	15.43	166	2396	0.41	ng	99
20) 4-Bromophenyl-phenylether	16.33	248	499	0.37	ng	# 1
21) Hexachlorobenzene	16.47	284	697	0.35	ng	# 100
22) Pentachlorophenol	16.82	266	185	0.36	ng	94
23) Phenanthrene	17.19	178	3499	0.38	ng	# 77
24) Anthracene	17.28	178	3468	0.39	ng	97
26) Fluoranthene	19.16	202	21877	0.41	ng	# 59
28) Pyrene	19.53	202	24014	0.40	ng	# 97
30) Benzo(a)anthracene	21.25	228	5472	0.41	ng	# 86
31) Chrysene	21.30	228	5608	0.39	ng	# 86
32) Bis(2-ethylhexyl)phthalate	21.20	149	3233	0.47	ng	95
33) Indeno(1,2,3-cd)pyrene	26.22	276	20259	0.38	ng	100
35) Benzo(b)fluoranthene	22.95	252	5367	0.40	ng	97
36) Benzo(k)fluoranthene	23.00	252	5063	0.37	ng	98
37) Benzo(a)pyrene	23.57	252	4777	0.39	ng	99
38) Dibenzo(a,h)anthracene	26.25	278	4339	0.38	ng	98
39) Benzo(g,h,i)perylene	27.00	276	19417	0.39	ng	98

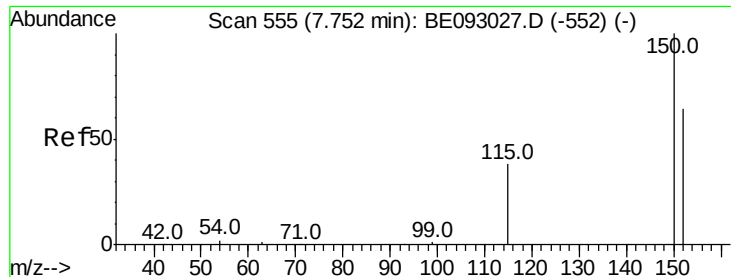
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.40 ng

RT: 7.75 min Scan# 555

Delta R.T. 0.00 min

Lab File: BE093055.D

Acq: 19 May 2017 11:28

Instrument :

BNA_E

ClientSampleId :

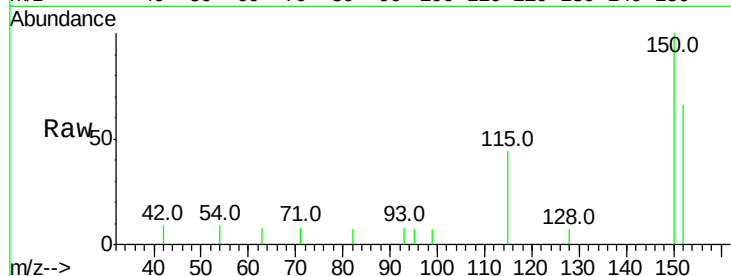
Tot Ion:152 Resp: 658

Ion Ratio Lower Upper

152 100

150 152.0 125.1 187.7

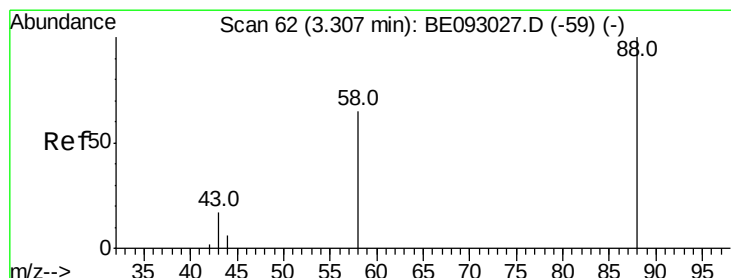
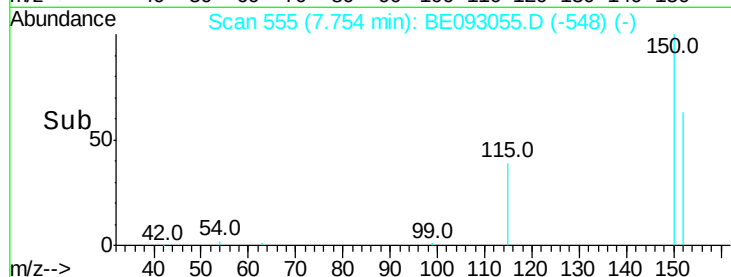
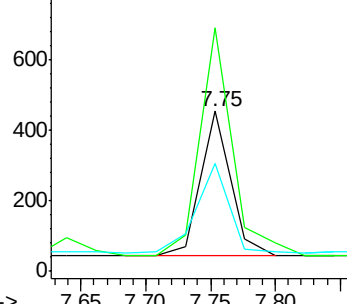
115 67.6 55.7 83.5



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 0.41 ng

RT: 3.31 min Scan# 62

Delta R.T. -0.00 min

Lab File: BE093055.D

Acq: 19 May 2017 11:28

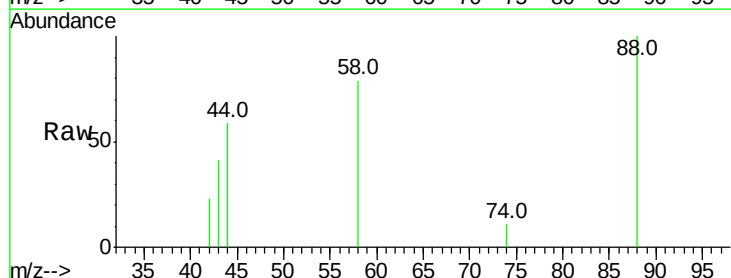
Tgt Ion: 88 Resp: 534

Ion Ratio Lower Upper

88 100

58 77.0 62.2 93.4

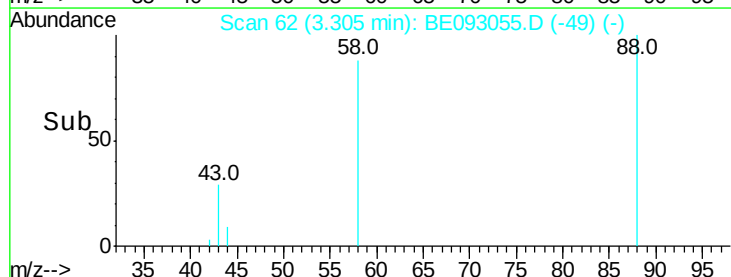
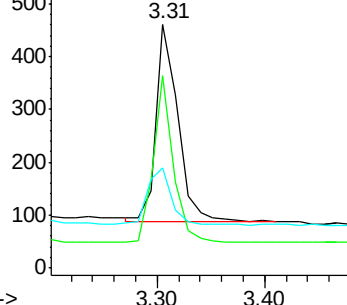
43 32.4 23.2 34.8

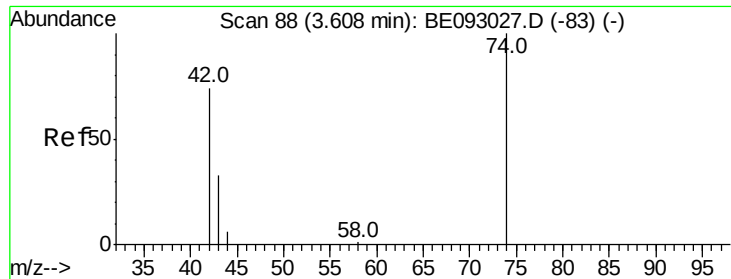


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.42 ng

RT: 3.61 min Scan# 88

Delta R.T. -0.00 min

Lab File: BE093055.D

Acq: 19 May 2017 11:28

Instrument :

BNA_E

ClientSampleId :

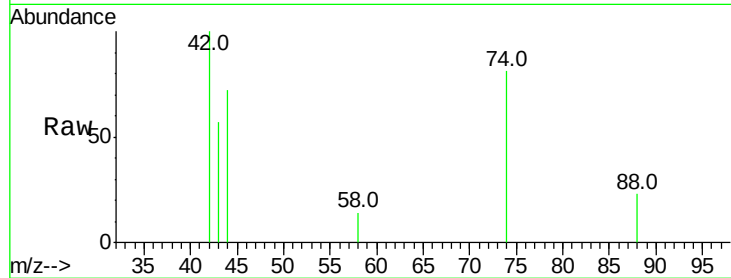
Tot Ion: 42 Resp: 505

Ion Ratio Lower Upper

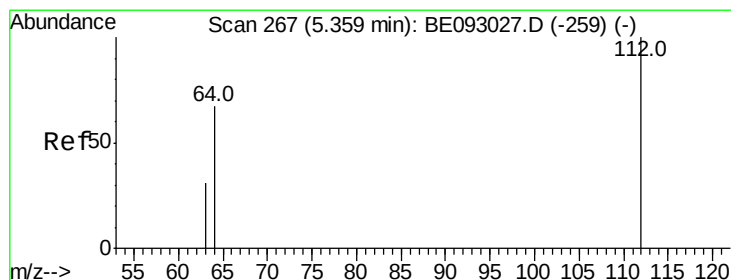
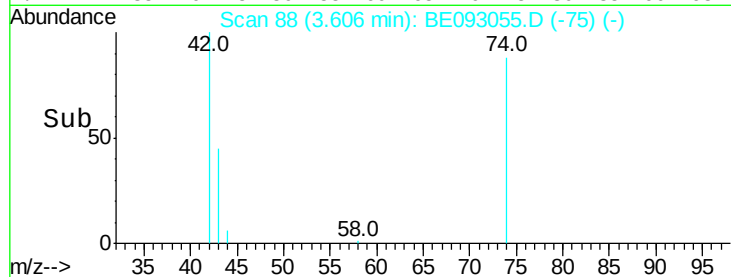
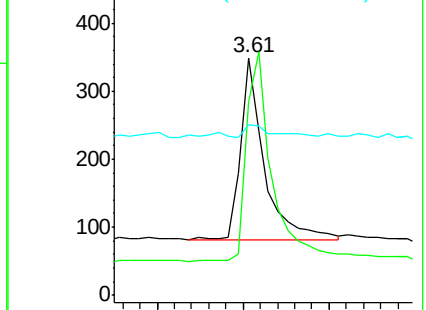
42 100

74 126.7 99.1 148.7

44 8.3 7.4 11.2



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: 0.42 ng

RT: 5.36 min Scan# 267

Delta R.T. 0.00 min

Lab File: BE093055.D

Acq: 19 May 2017 11:28

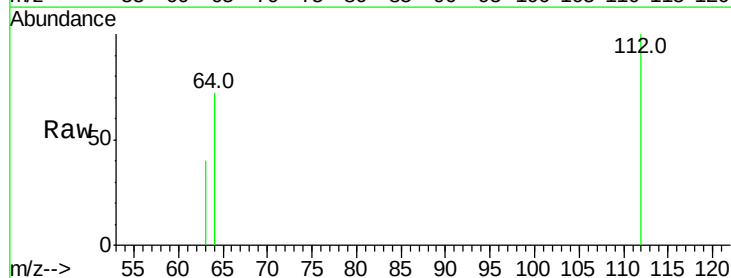
Tgt Ion: 112 Resp: 848

Ion Ratio Lower Upper

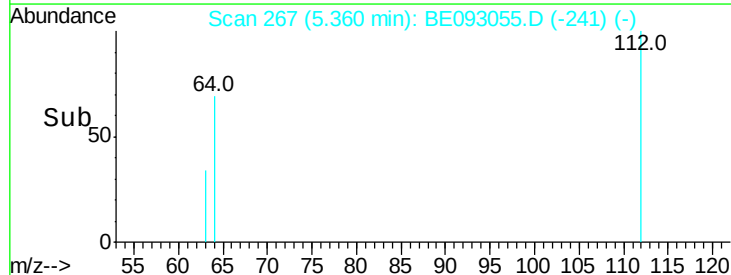
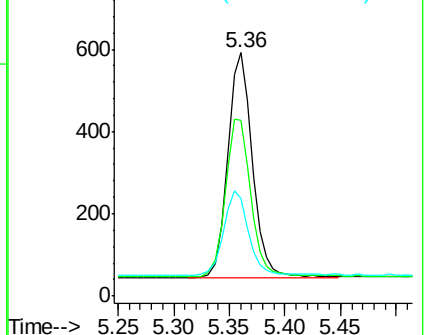
112 100

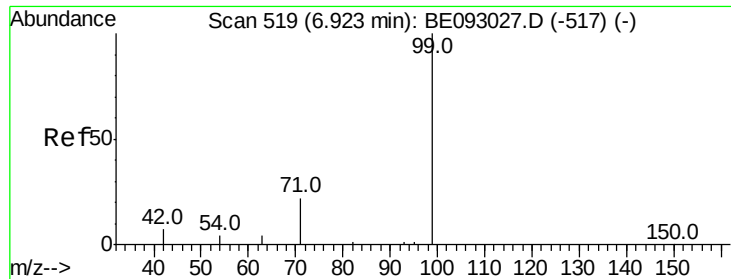
64 72.4 56.4 84.6

63 36.9 29.3 43.9



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: 0.43 ng

RT: 6.92 min Scan# 519

Delta R.T. 0.00 min

Lab File: BE093055.D

Acq: 19 May 2017 11:28

Instrument :

BNA_E

ClientSampleId :

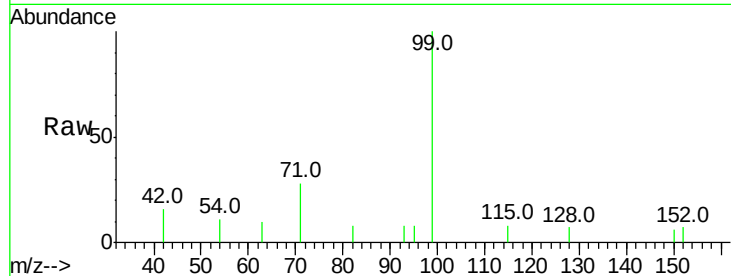
Tot Ion: 99 Resp: 1178

Ion Ratio Lower Upper

99 100

42 0.0 0.0 0.0

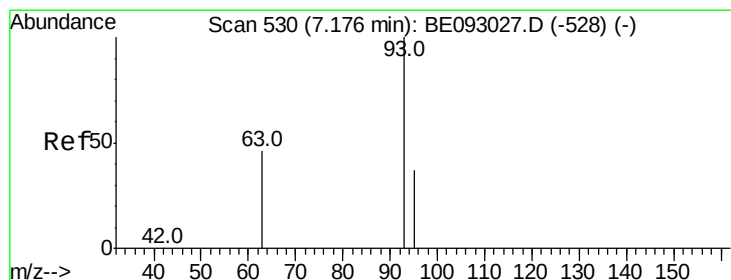
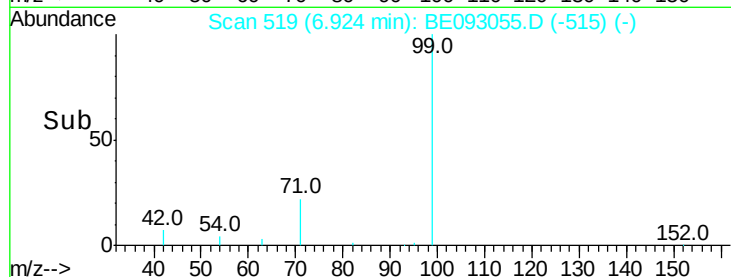
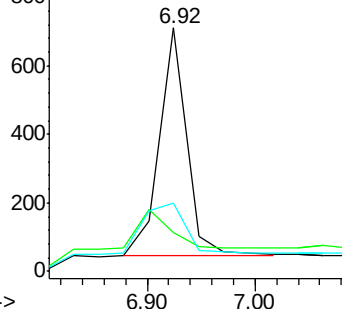
71 34.0 0.0 0.0#



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: 0.41 ng

RT: 7.18 min Scan# 530

Delta R.T. 0.00 min

Lab File: BE093055.D

Acq: 19 May 2017 11:28

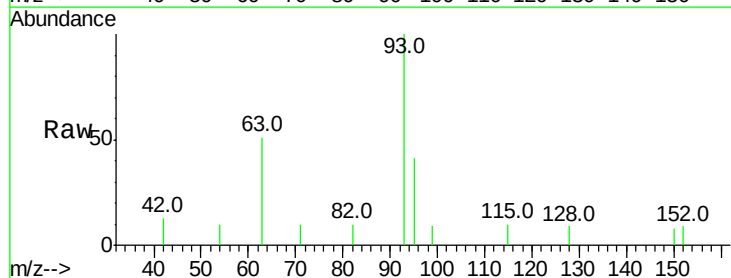
Tgt Ion: 93 Resp: 919

Ion Ratio Lower Upper

93 100

63 0.0 0.0 0.0

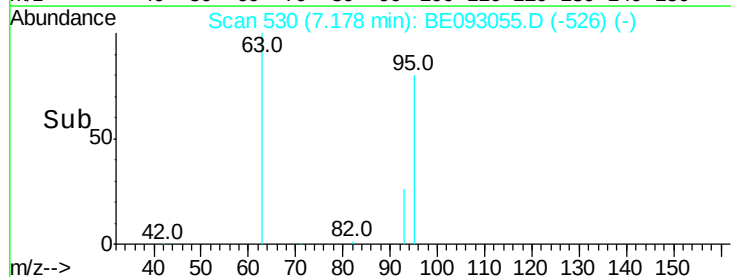
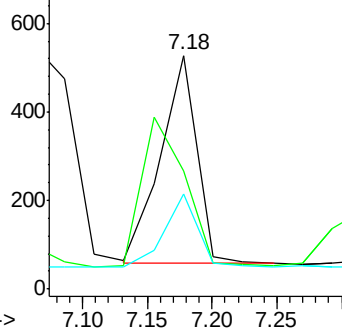
95 31.8 25.4 38.0

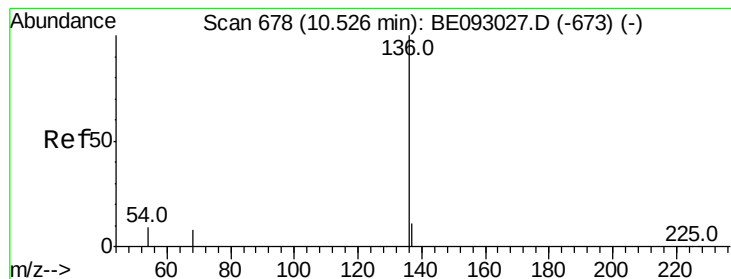


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 0.40 ng

RT: 10.53 min Scan# 678

Delta R.T. -0.00 min

Lab File: BE093055.D

Acq: 19 May 2017 11:28

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136 Resp: 2938

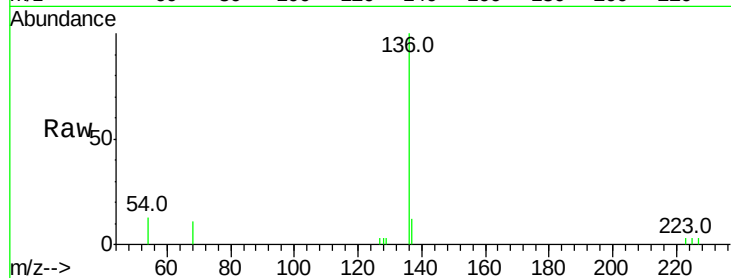
Ion Ratio Lower Upper

136 100

137 12.4 9.8 14.8

54 12.8 10.3 15.5

68 11.4 9.0 13.4

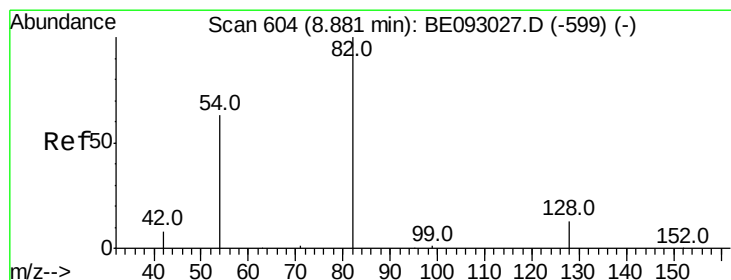
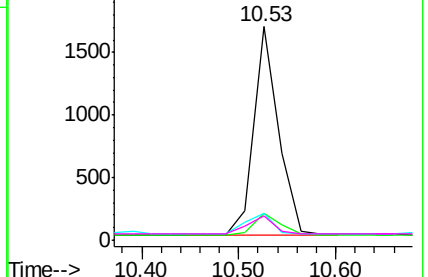
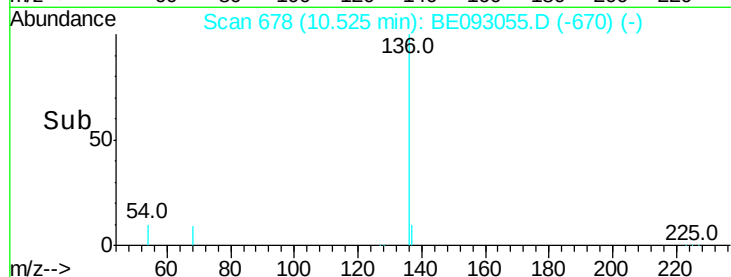


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.42 ng

RT: 8.88 min Scan# 604

Delta R.T. 0.00 min

Lab File: BE093055.D

Acq: 19 May 2017 11:28

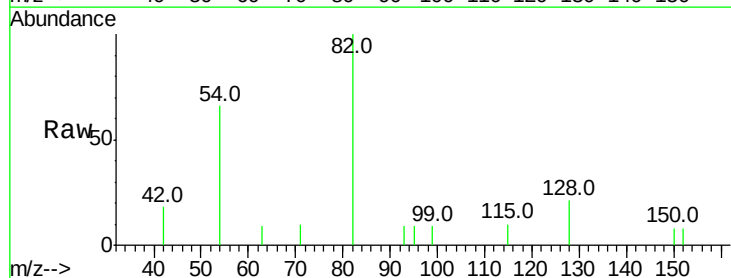
Tgt Ion: 82 Resp: 1086

Ion Ratio Lower Upper

82 100

128 20.7 17.0 25.4

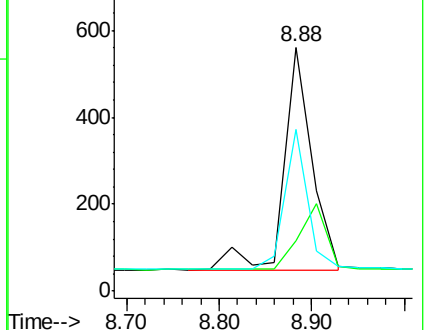
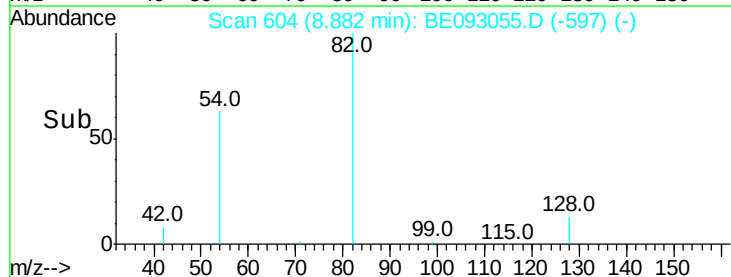
54 66.1 53.8 80.6

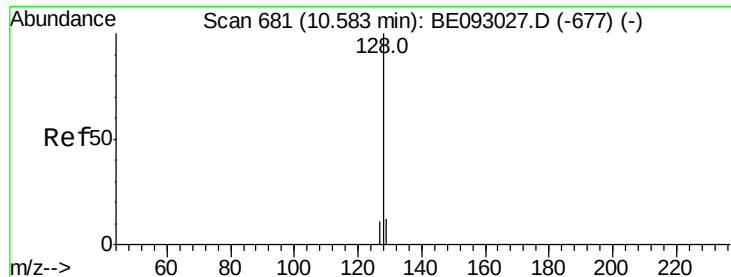


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.39 ng

RT: 10.58 min Scan# 681

Delta R.T. -0.00 min

Lab File: BE093055.D

Acq: 19 May 2017 11:28

Instrument :

BNA_E

ClientSampleId :

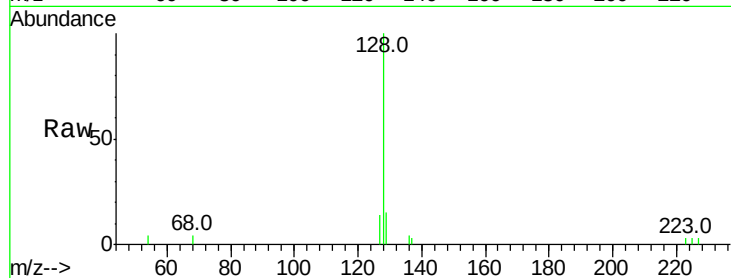
Tot Ion:128 Resp: 3022

Ion Ratio Lower Upper

128 100

129 14.7 11.4 17.0

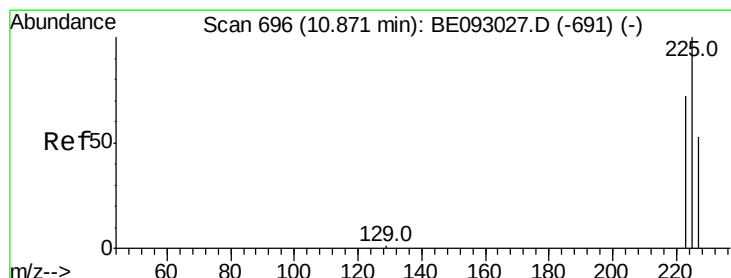
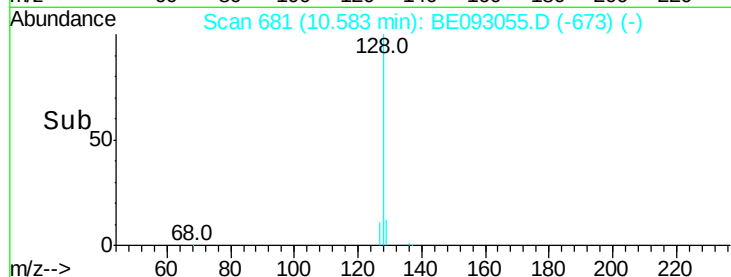
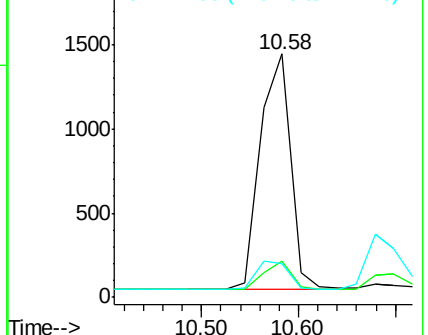
127 13.9 11.2 16.8



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#10

Hexachlorobutadiene

Concen: 0.39 ng

RT: 10.87 min Scan# 696

Delta R.T. -0.00 min

Lab File: BE093055.D

Acq: 19 May 2017 11:28

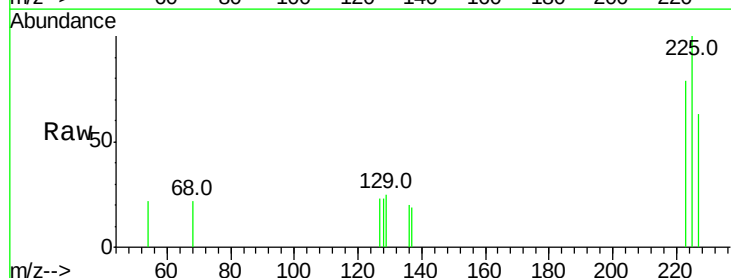
Tgt Ion:225 Resp: 397

Ion Ratio Lower Upper

225 100

223 63.7 49.7 74.5

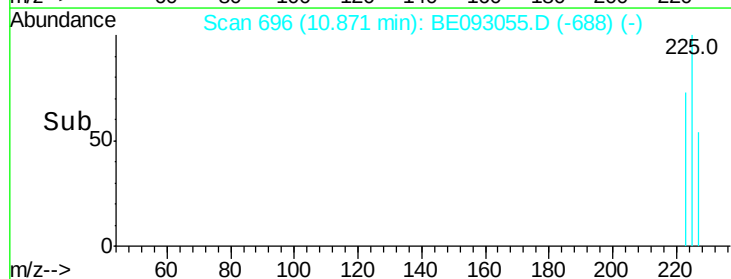
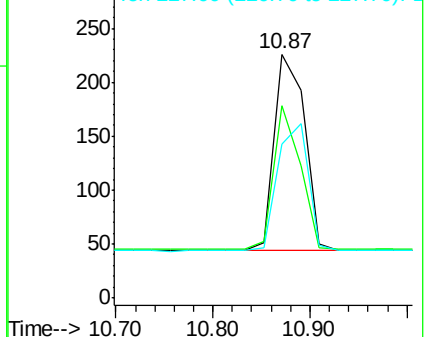
227 67.8 50.3 75.5

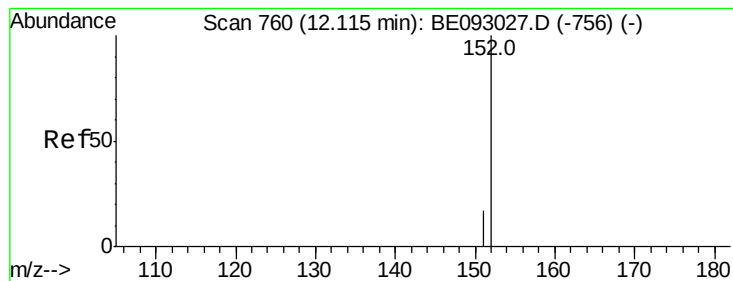


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

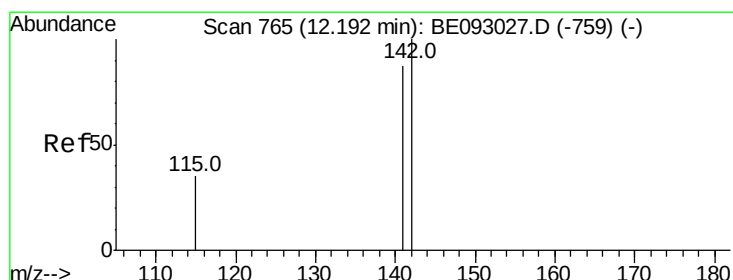
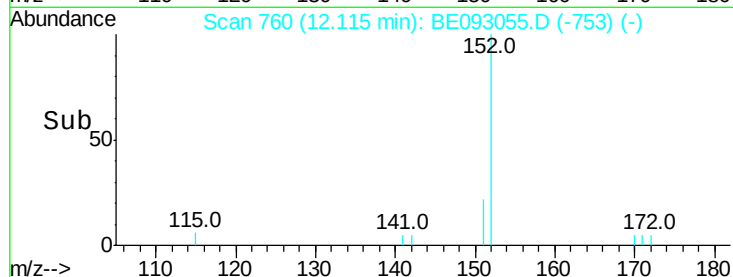
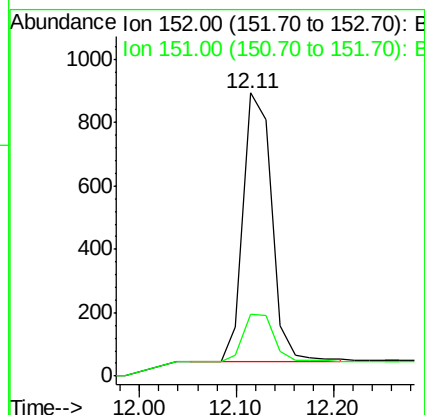
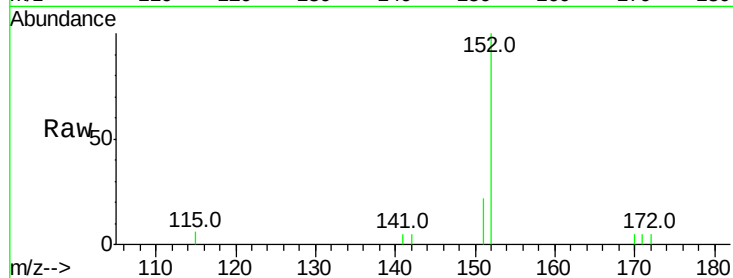




#11
2-Methylnaphthalene-d10
Concen: 0.41 ng
RT: 12.11 min Scan# 760
Delta R.T. -0.00 min
Lab File: BE093055.D
Acq: 19 May 2017 11:28

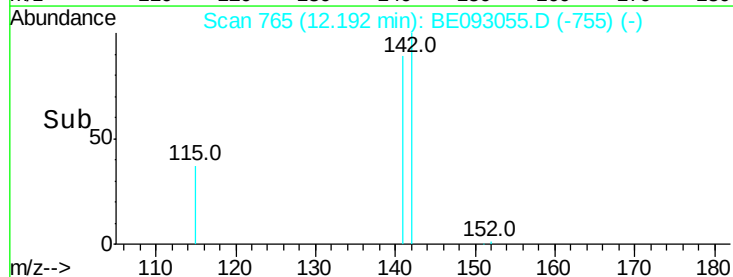
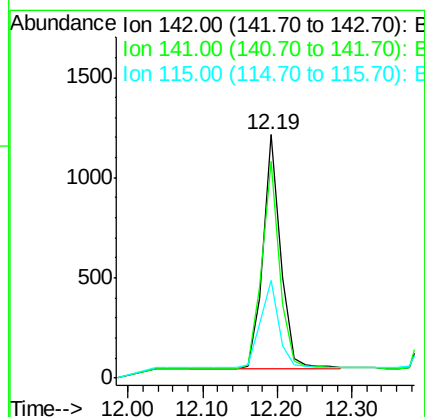
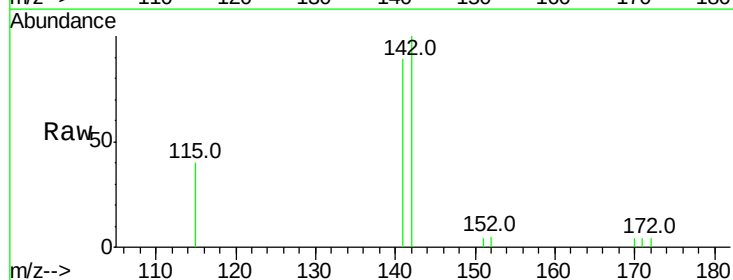
Instrument :
BNA_E
ClientSampleId :

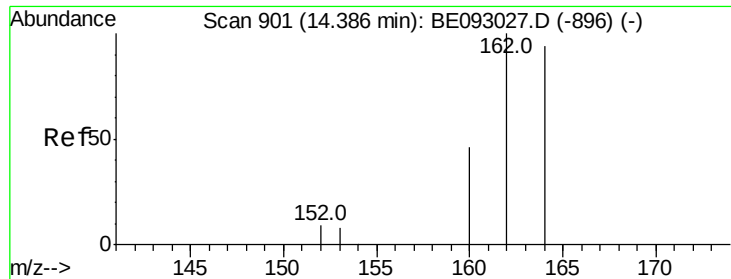
Tot Ion:152 Resp: 1746
Ion Ratio Lower Upper
152 100
151 19.2 15.1 22.7



#12
2-Methylnaphthalene
Concen: 0.40 ng
RT: 12.19 min Scan# 765
Delta R.T. -0.00 min
Lab File: BE093055.D
Acq: 19 May 2017 11:28

Tgt Ion:142 Resp: 1920
Ion Ratio Lower Upper
142 100
141 89.1 72.6 108.8
115 40.1 32.2 48.2

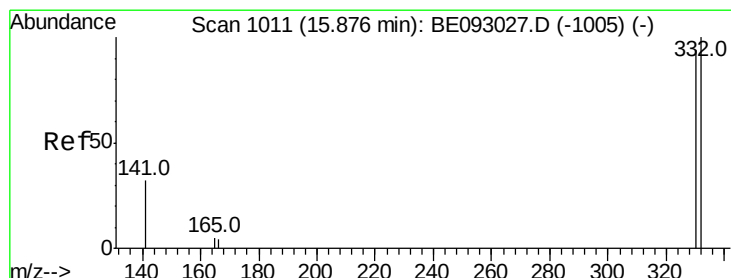
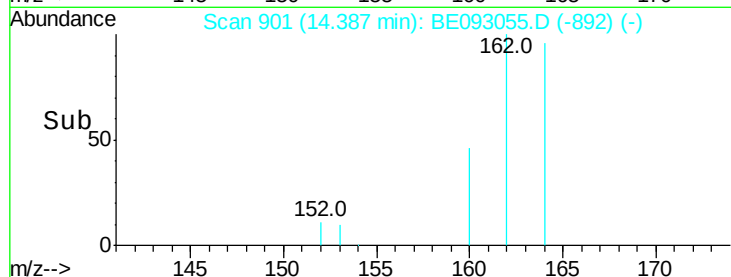
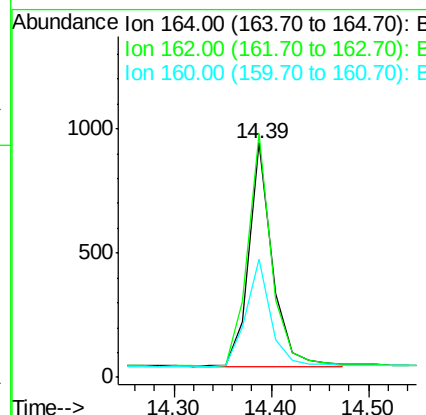
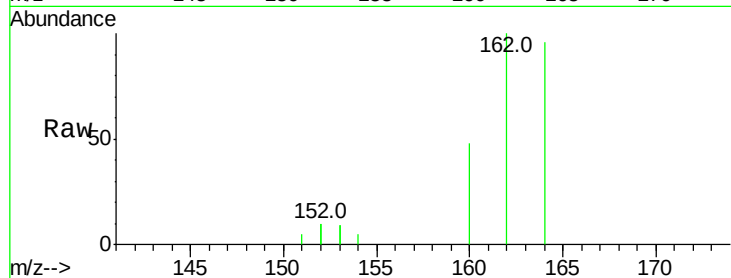




#13
Acenaphthene-d10
Concen: 0.40 ng
RT: 14.39 min Scan# 901
Delta R.T. 0.00 min
Lab File: BE093055.D
Acq: 19 May 2017 11:28

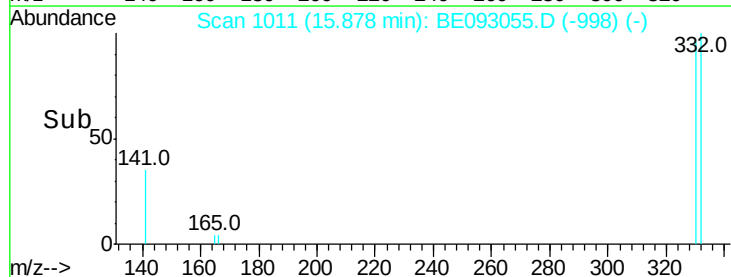
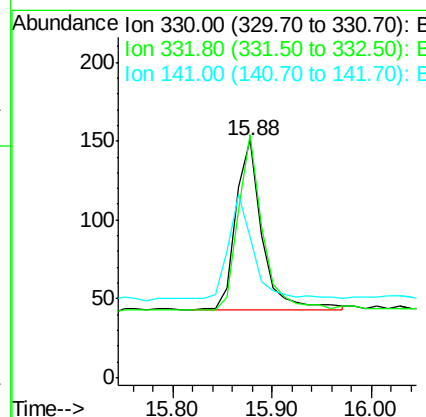
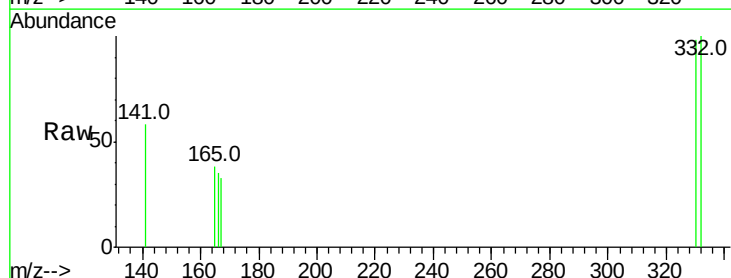
Instrument :
BNA_E
ClientSampleId :

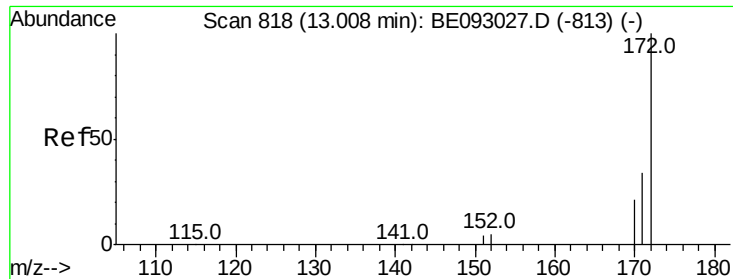
Tot Ion:164 Resp: 1501
Ion Ratio Lower Upper
164 100
162 103.9 84.6 127.0
160 50.3 41.8 62.6



#14
2,4,6-Tribromophenol
Concen: 0.45 ng
RT: 15.88 min Scan# 1011
Delta R.T. 0.00 min
Lab File: BE093055.D
Acq: 19 May 2017 11:28

Tgt Ion:330 Resp: 199
Ion Ratio Lower Upper
330 100
332 95.0 77.7 116.5
141 56.8 56.2 84.4

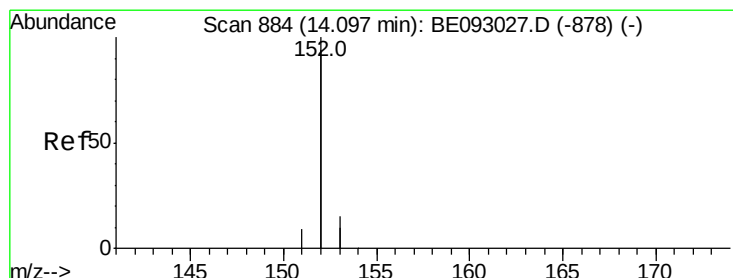
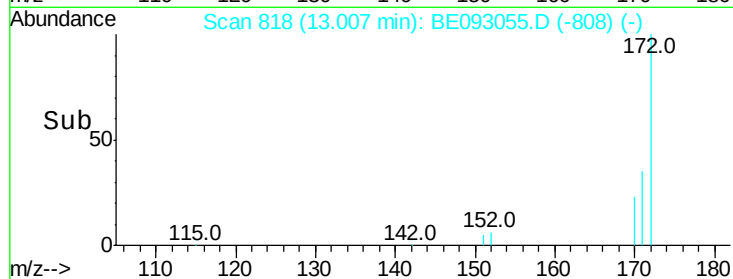
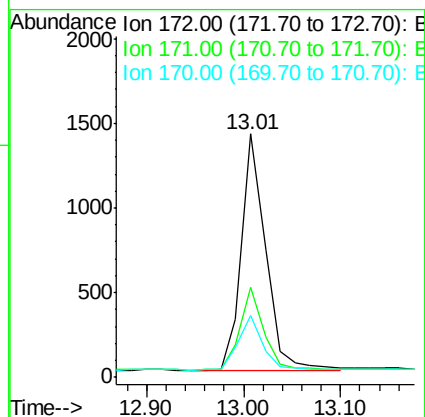
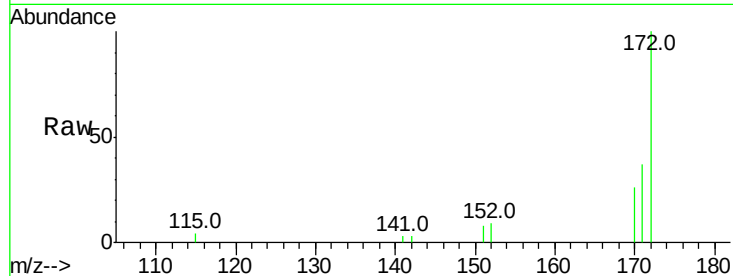




#15
2-Fluorobiphenyl
Concen: 0.39 ng
RT: 13.01 min Scan# 818
Delta R.T. -0.00 min
Lab File: BE093055.D
Acq: 19 May 2017 11:28

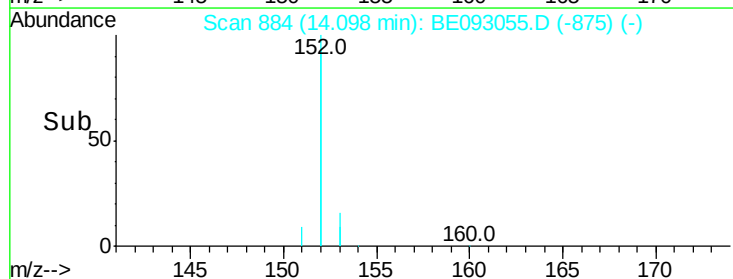
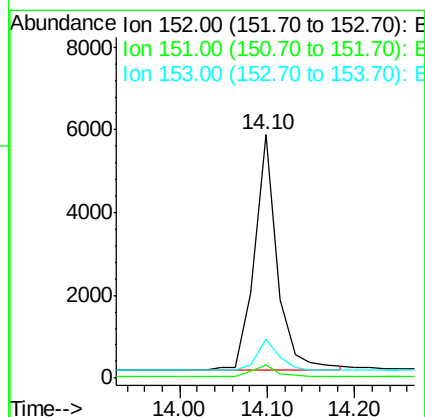
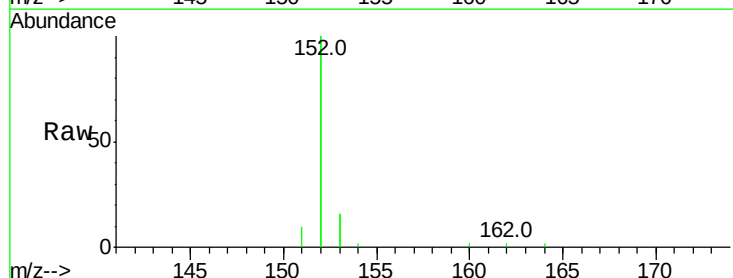
Instrument :
BNA_E
ClientSampleId :

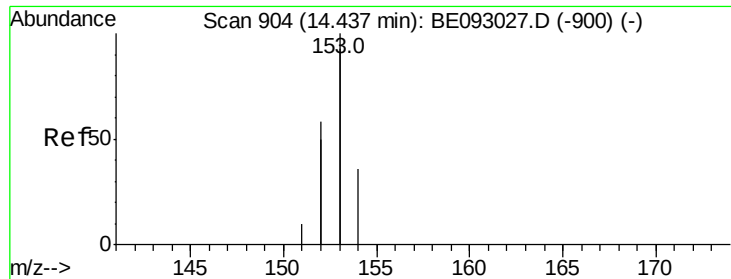
Tot Ion:172 Resp: 2422
Ion Ratio Lower Upper
172 100
171 37.1 29.8 44.6
170 25.5 20.7 31.1



#16
Acenaphthylene
Concen: 0.40 ng
RT: 14.10 min Scan# 884
Delta R.T. 0.00 min
Lab File: BE093055.D
Acq: 19 May 2017 11:28

Tgt Ion:152 Resp: 10420
Ion Ratio Lower Upper
152 100
151 4.9 4.0 6.0
153 13.2 10.3 15.5

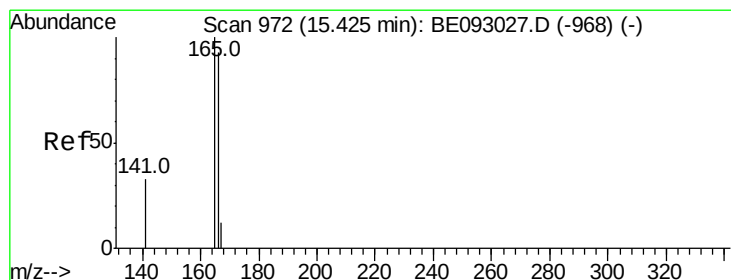
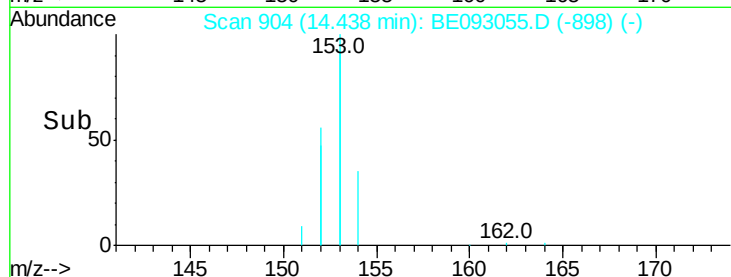
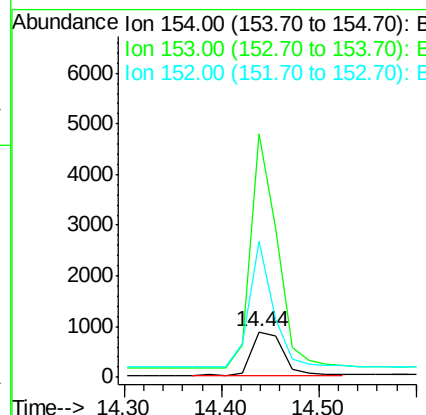
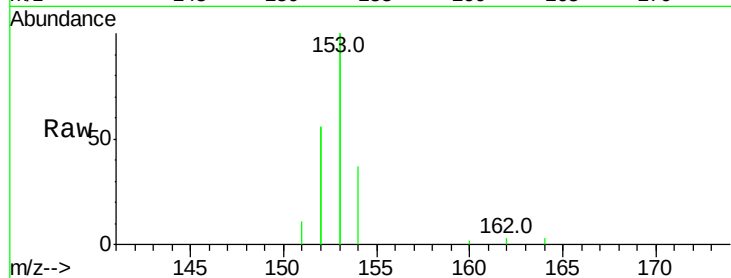




#17
Acenaphthene
Concen: 0.40 ng
RT: 14.44 min Scan# 904
Delta R.T. 0.00 min
Lab File: BE093055.D
Acq: 19 May 2017 11:28

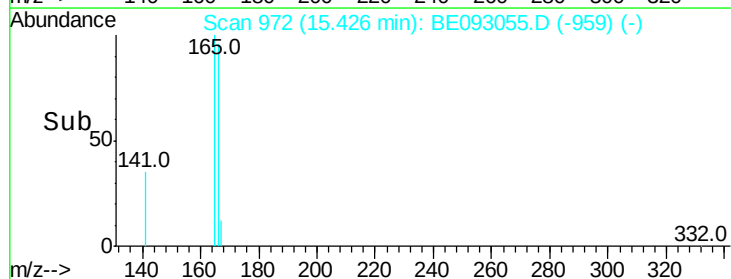
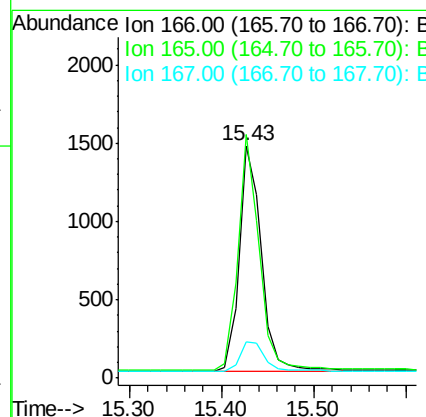
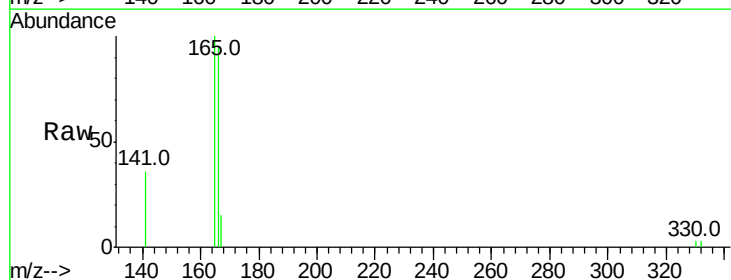
Instrument :
BNA_E
ClientSampleId :

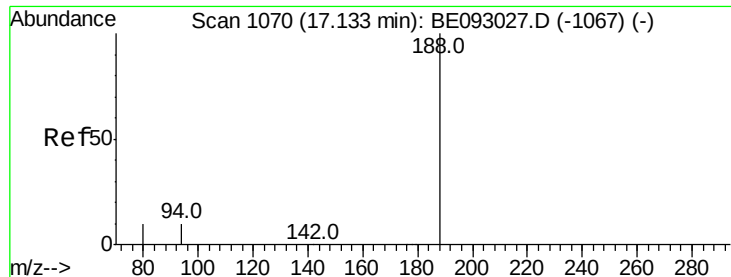
Tot Ion:154 Resp: 1885
Ion Ratio Lower Upper
154 100
153 461.2 367.8 551.6
152 225.7 188.2 282.2



#18
Fluorene
Concen: 0.41 ng
RT: 15.43 min Scan# 972
Delta R.T. 0.00 min
Lab File: BE093055.D
Acq: 19 May 2017 11:28

Tgt Ion:166 Resp: 2396
Ion Ratio Lower Upper
166 100
165 99.8 78.6 117.8
167 13.9 11.1 16.7





#19

Phenanthrene-d10

Concen: 0.40 ng

RT: 17.13 min Scan# 1069

Delta R.T. -0.00 min

Lab File: BE093055.D

Acq: 19 May 2017 11:28

Instrument :

BNA_E

ClientSampled :

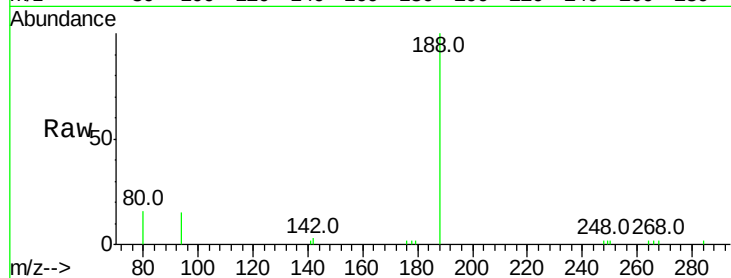
Tot Ion:188 Resp: 4295

Ion Ratio Lower Upper

188 100

94 15.5 11.3 16.9

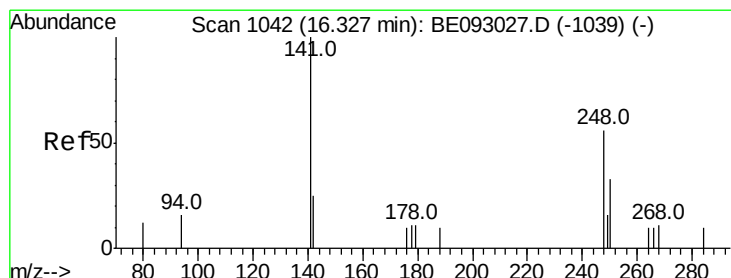
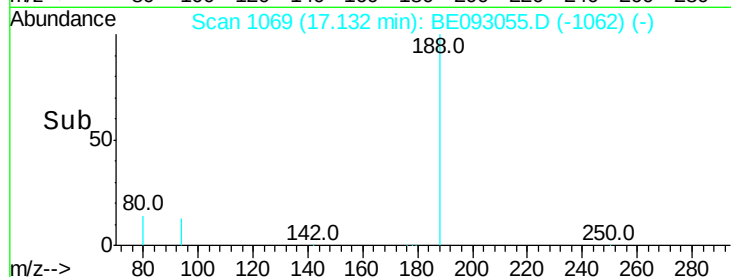
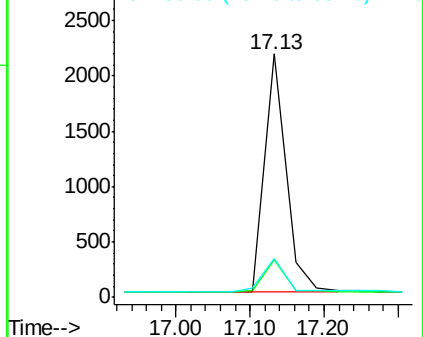
80 15.7 11.7 17.5



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

4-Bromophenyl-phenylether

Concen: 0.37 ng

RT: 16.33 min Scan# 1041

Delta R.T. -0.00 min

Lab File: BE093055.D

Acq: 19 May 2017 11:28

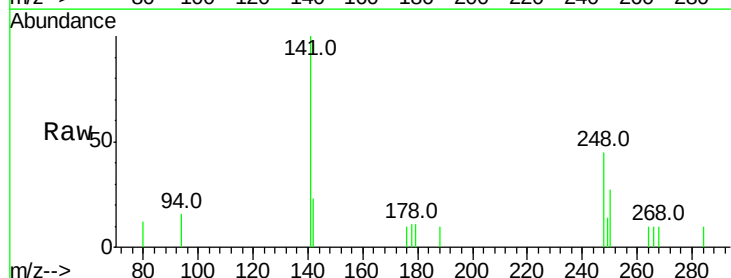
Tgt Ion:248 Resp: 499

Ion Ratio Lower Upper

248 100

250 59.3 100.0 150.0#

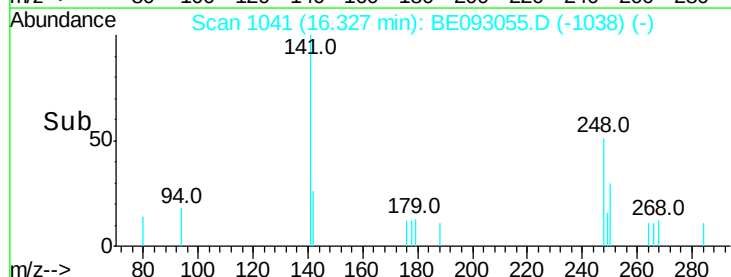
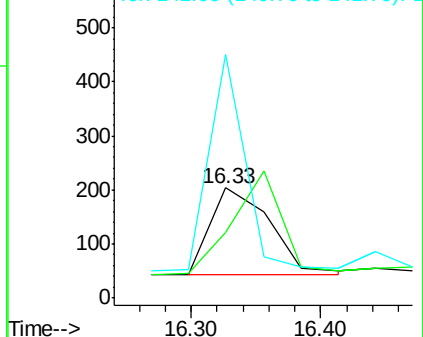
141 221.1 40.0 60.0#

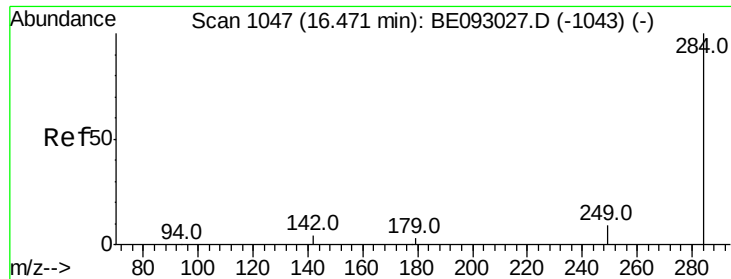


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.35 ng

RT: 16.47 min Scan# 1046

Delta R.T. -0.00 min

Lab File: BE093055.D

Acq: 19 May 2017 11:28

Instrument :

BNA_E

ClientSampled :

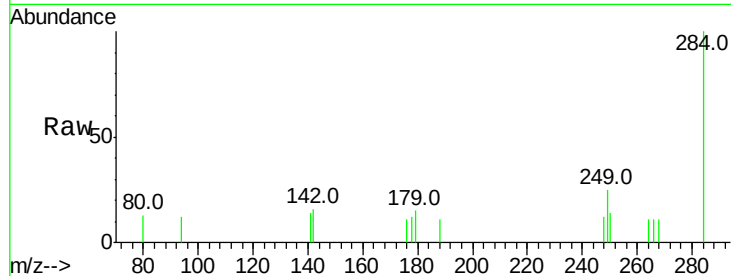
Tot Ion:284 Resp: 697

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

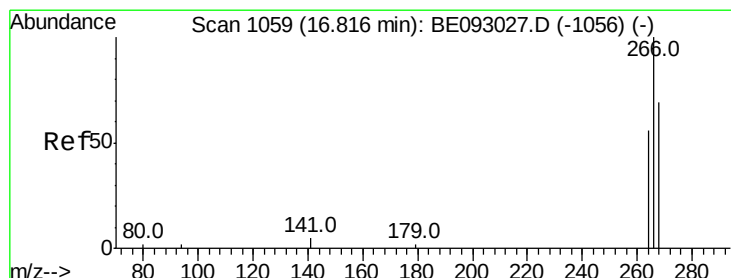
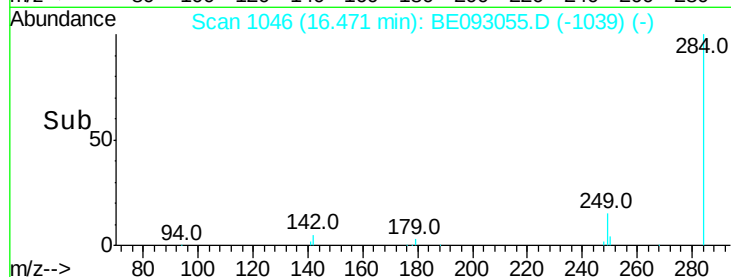
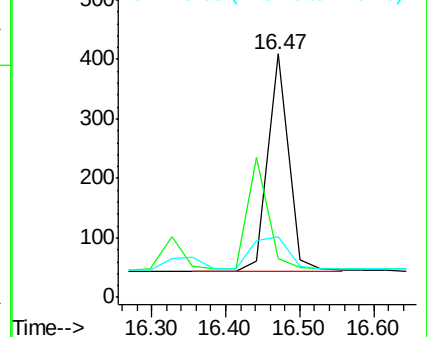
249 26.5 0.0 0.0#



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



#22

Pentachlorophenol

Concen: 0.36 ng

RT: 16.82 min Scan# 1058

Delta R.T. -0.00 min

Lab File: BE093055.D

Acq: 19 May 2017 11:28

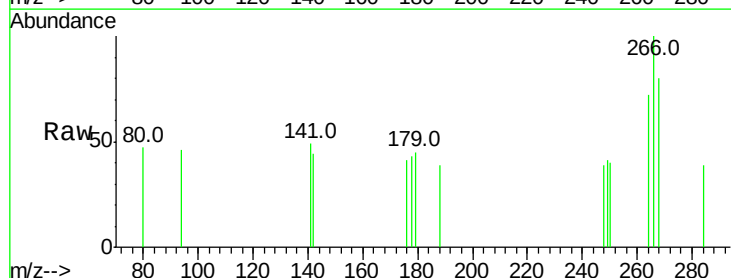
Tgt Ion:266 Resp: 185

Ion Ratio Lower Upper

266 100

264 72.4 58.2 87.2

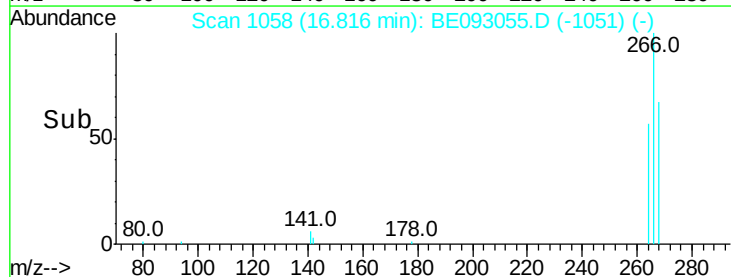
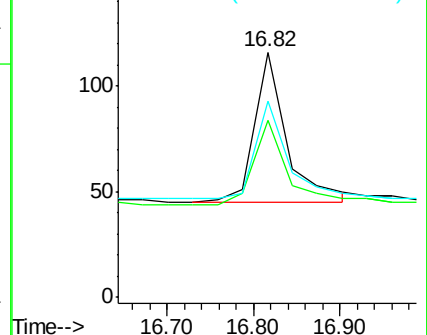
268 80.2 71.9 107.9

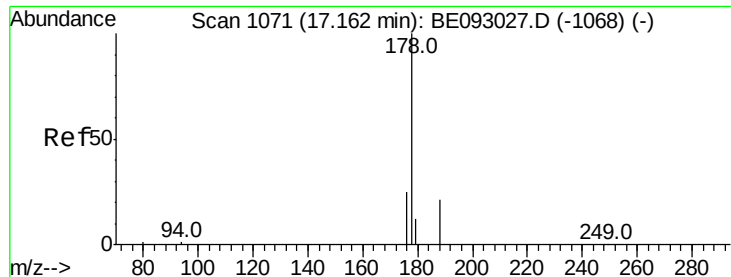


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.38 ng

RT: 17.19 min Scan# 1071

Delta R.T. 0.03 min

Lab File: BE093055.D

Acq: 19 May 2017 11:28

Instrument :

BNA_E

ClientSampleId :

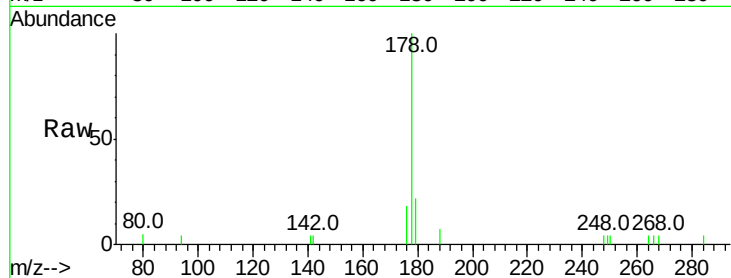
Tot Ion:178 Resp: 3499

Ion Ratio Lower Upper

178 100

176 0.0 15.0 22.4#

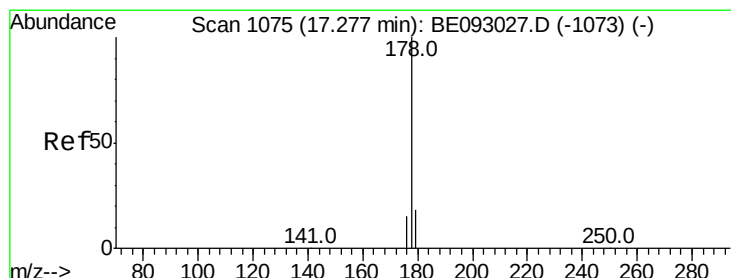
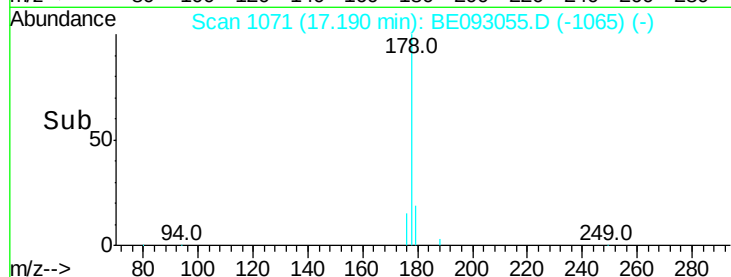
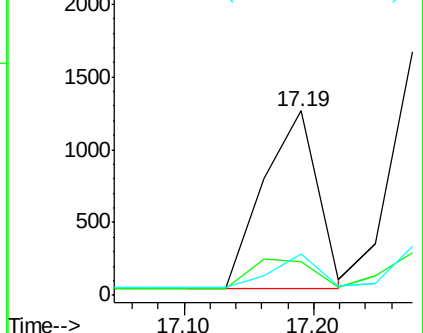
179 16.1 12.7 19.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#24

Anthracene

Concen: 0.39 ng

RT: 17.28 min Scan# 1074

Delta R.T. 0.00 min

Lab File: BE093055.D

Acq: 19 May 2017 11:28

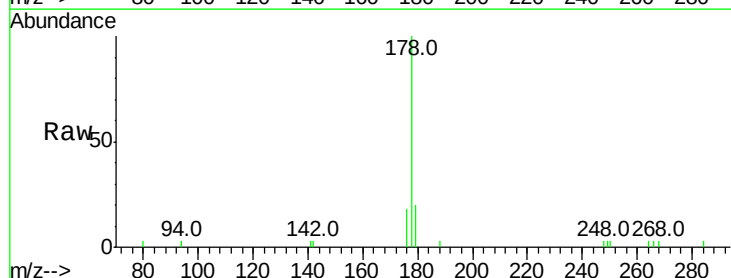
Tgt Ion:178 Resp: 3468

Ion Ratio Lower Upper

178 100

176 17.3 14.6 22.0

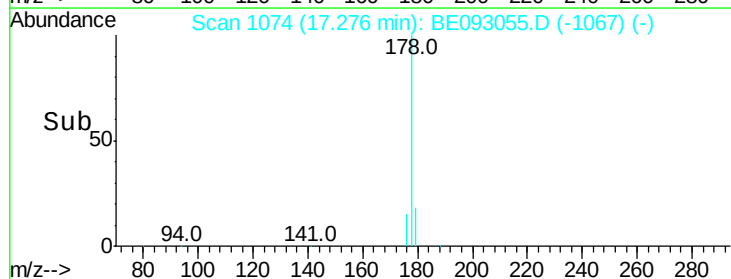
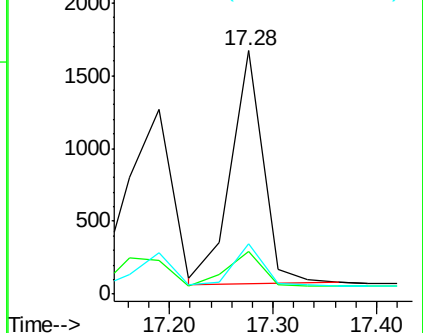
179 16.9 12.0 18.0

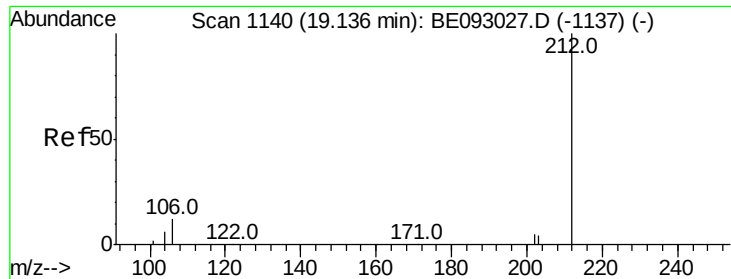


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.42 ng

RT: 19.14 min Scan# 1139

Delta R.T. -0.00 min

Lab File: BE093055.D

Acq: 19 May 2017 11:28

Instrument :

BNA_E

ClientSampleId :

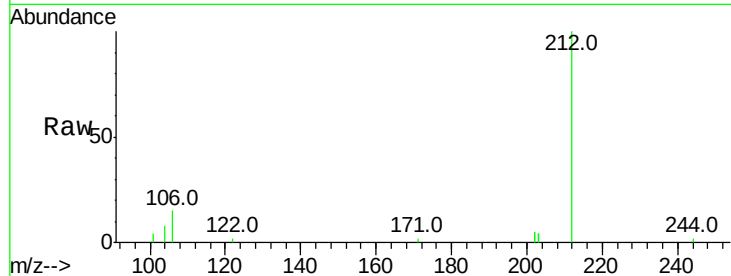
Tot Ion:212 Resp: 4698

Ion Ratio Lower Upper

212 100

106 16.6 0.0 0.0#

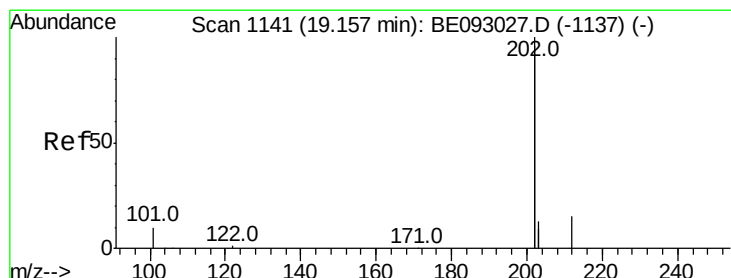
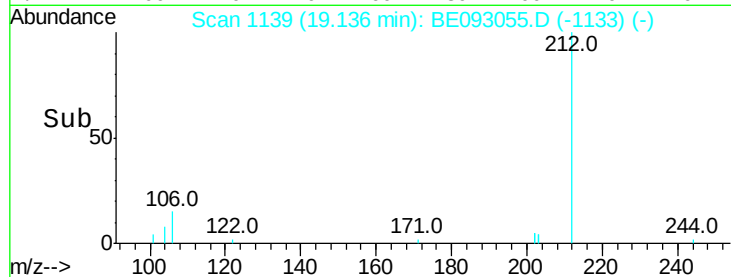
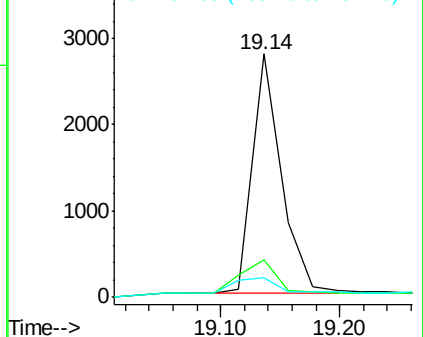
104 8.8 0.0 0.0#



Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.41 ng

RT: 19.16 min Scan# 1140

Delta R.T. -0.00 min

Lab File: BE093055.D

Acq: 19 May 2017 11:28

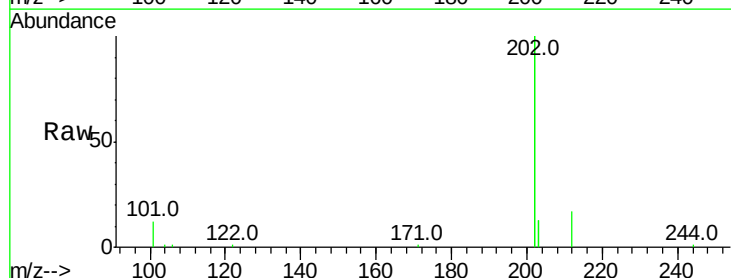
Tgt Ion:202 Resp: 21877

Ion Ratio Lower Upper

202 100

101 3.9 0.0 0.0#

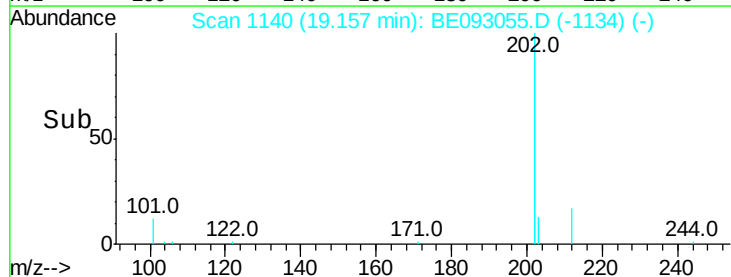
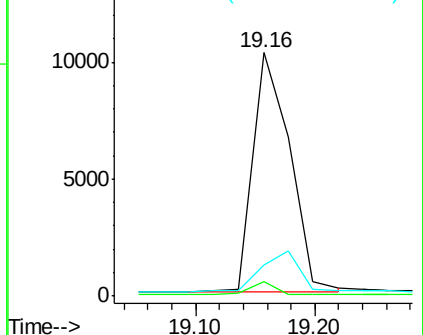
203 0.0 14.4 21.6#

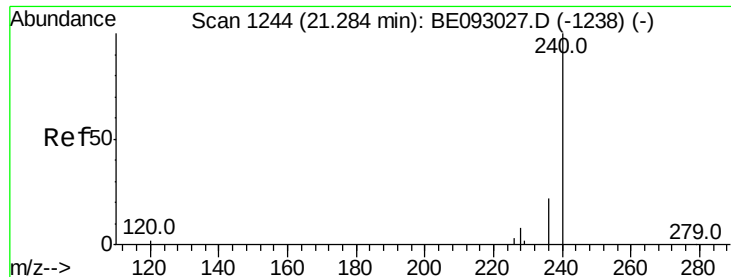


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#27

Chrysene-d12

Concen: 0.40 ng

RT: 21.27 min Scan# 1242

Delta R.T. -0.02 min

Lab File: BE093055.D

Acq: 19 May 2017 11:28

Instrument :

BNA_E

ClientSampleId :

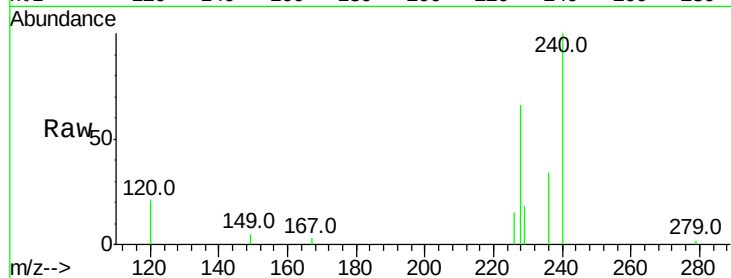
Tot Ion:240 Resp: 4961

Ion Ratio Lower Upper

240 100

120 21.4 4.6 7.0#

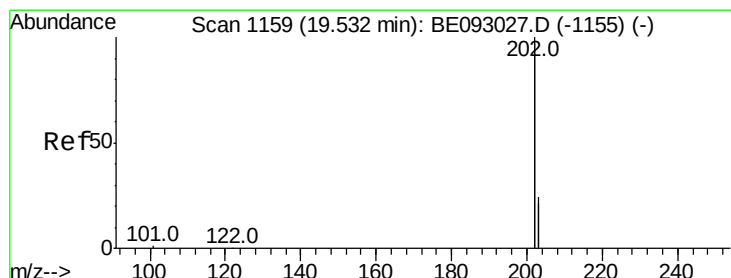
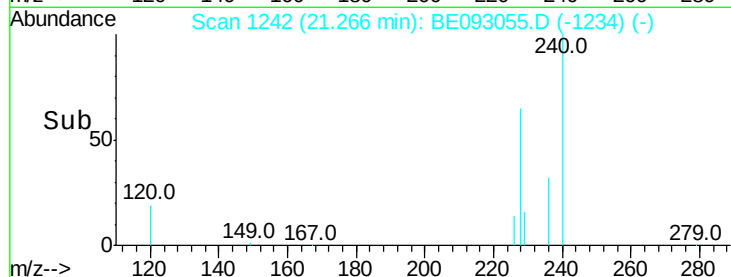
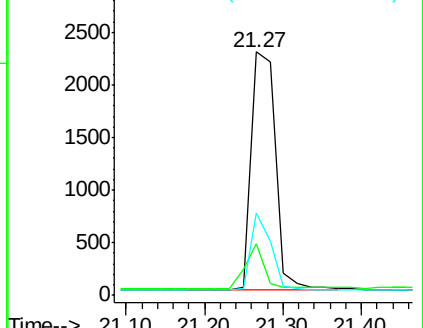
236 33.8 20.8 31.2#



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



#28

Pyrene

Concen: 0.40 ng

RT: 19.53 min Scan# 1158

Delta R.T. -0.00 min

Lab File: BE093055.D

Acq: 19 May 2017 11:28

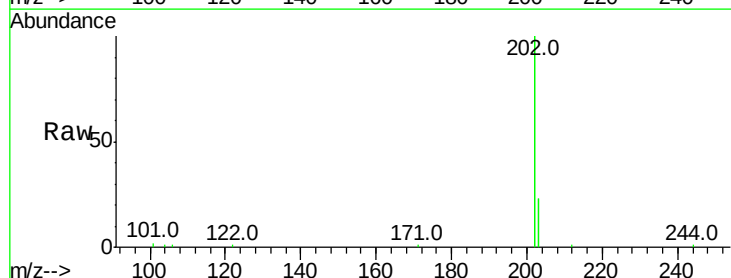
Tgt Ion:202 Resp: 24014

Ion Ratio Lower Upper

202 100

200 0.0 0.0 0.0

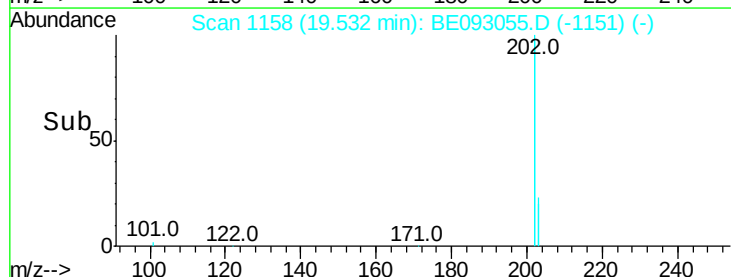
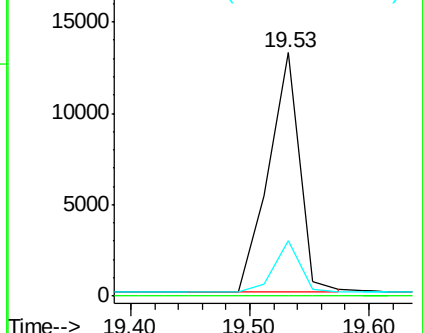
203 18.4 13.7 20.5

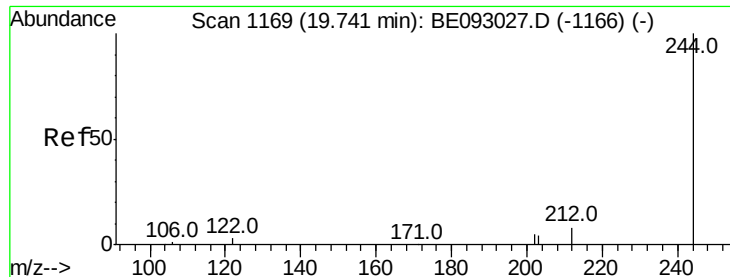


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.38 ng

RT: 19.74 min Scan# 1168

Delta R.T. -0.00 min

Lab File: BE093055.D

Acq: 19 May 2017 11:28

Instrument :

BNA_E

ClientSampleId :

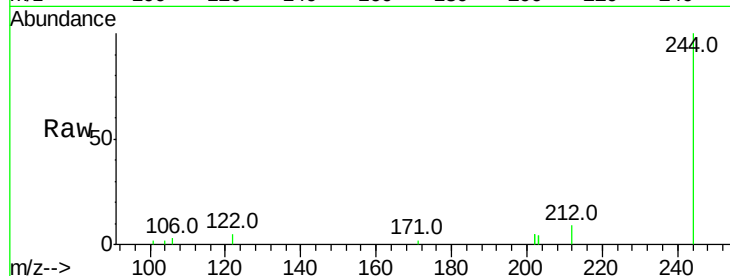
Tot Ion:244 Resp: 3536

Ion Ratio Lower Upper

244 100

212 9.5 10.6 16.0#

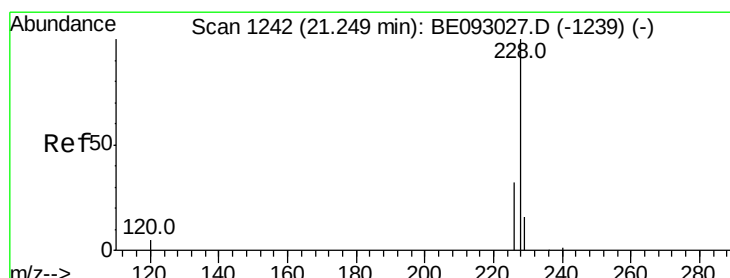
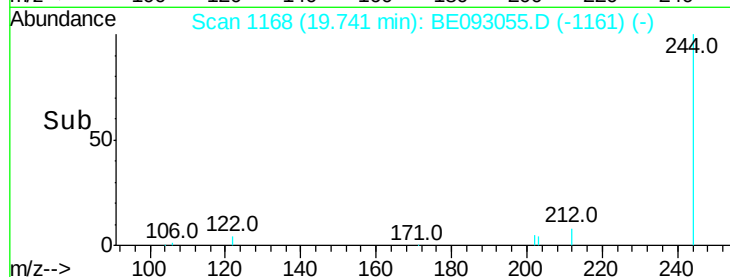
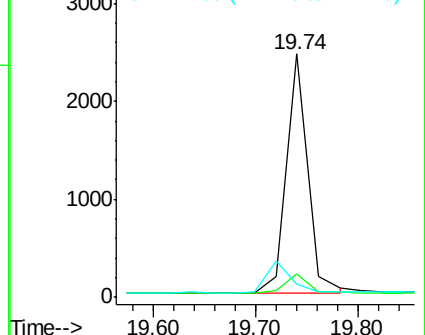
122 5.5 15.4 23.0#



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



#30

Benzo(a)anthracene

Concen: 0.41 ng

RT: 21.25 min Scan# 1241

Delta R.T. -0.00 min

Lab File: BE093055.D

Acq: 19 May 2017 11:28

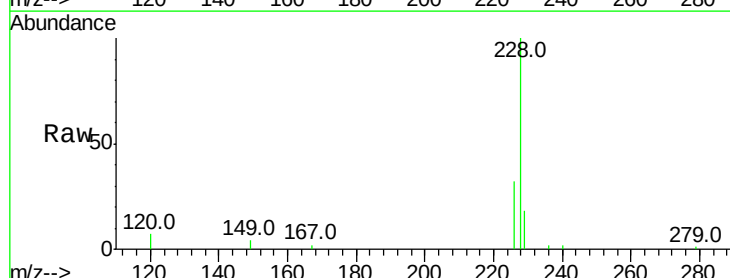
Tgt Ion:228 Resp: 5472

Ion Ratio Lower Upper

228 100

226 31.8 19.7 29.5#

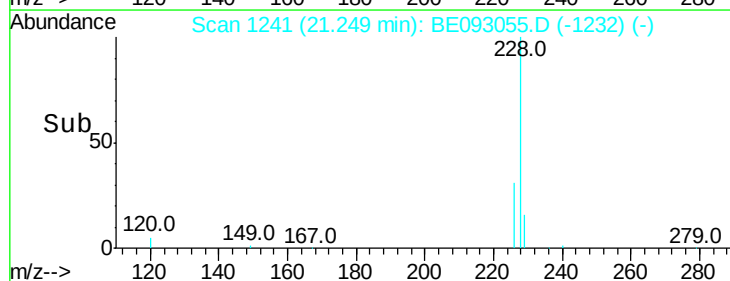
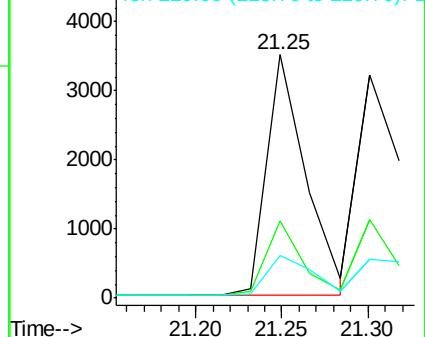
229 17.5 19.2 28.8#

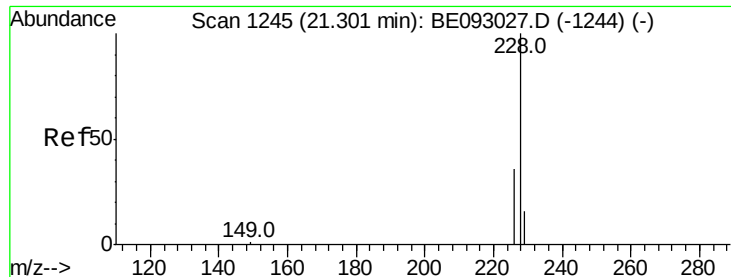


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.39 ng

RT: 21.30 min Scan# 1244

Delta R.T. -0.00 min

Lab File: BE093055.D

Acq: 19 May 2017 11:28

Instrument :

BNA_E

ClientSampleId :

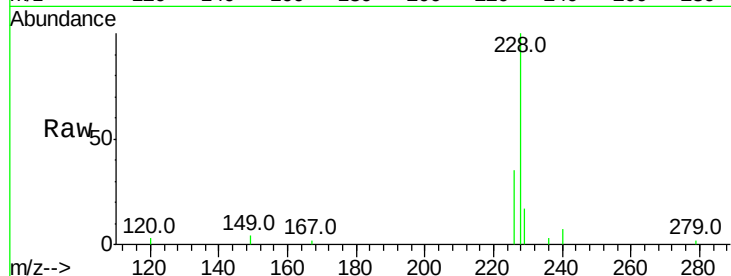
Tot Ion:228 Resp: 5608

Ion Ratio Lower Upper

228 100

226 35.2 21.5 32.3#

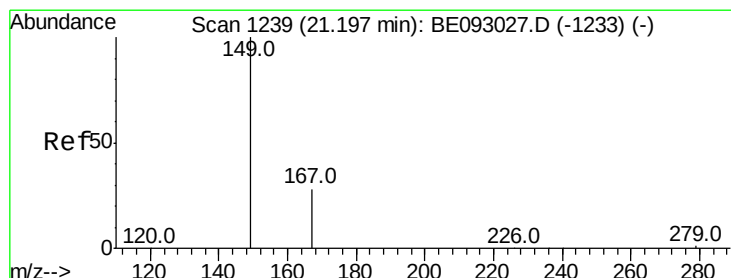
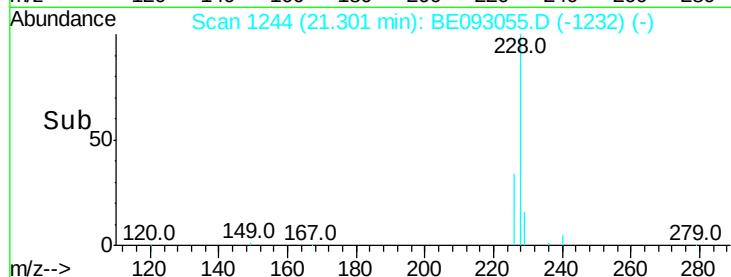
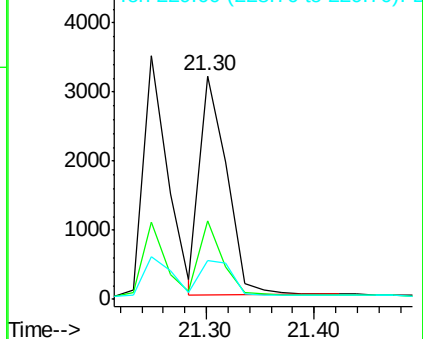
229 17.4 18.6 28.0#



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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.47 ng

RT: 21.20 min Scan# 1238

Delta R.T. 0.00 min

Lab File: BE093055.D

Acq: 19 May 2017 11:28

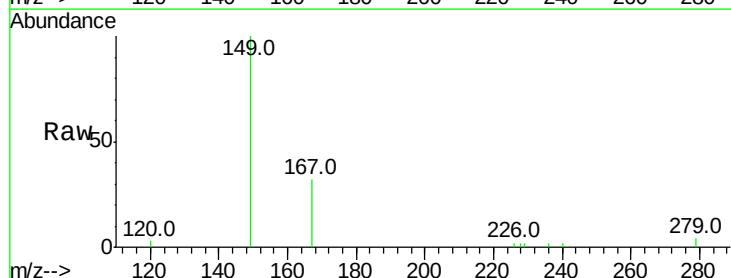
Tgt Ion:149 Resp: 3233

Ion Ratio Lower Upper

149 100

167 28.1 20.1 30.1

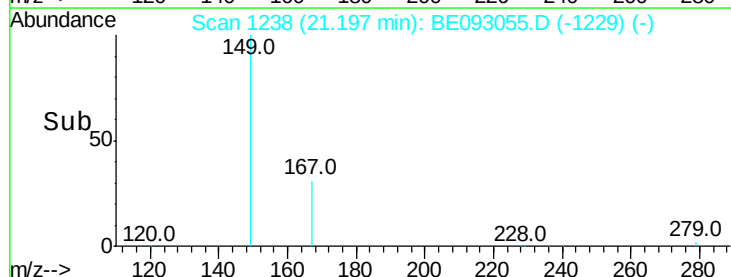
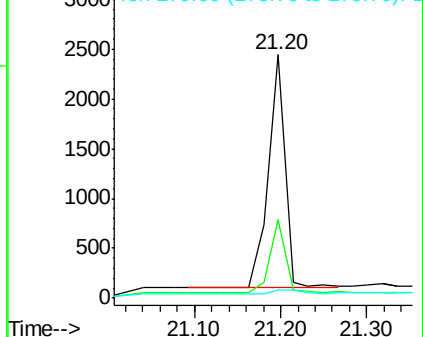
279 2.4 2.2 3.4

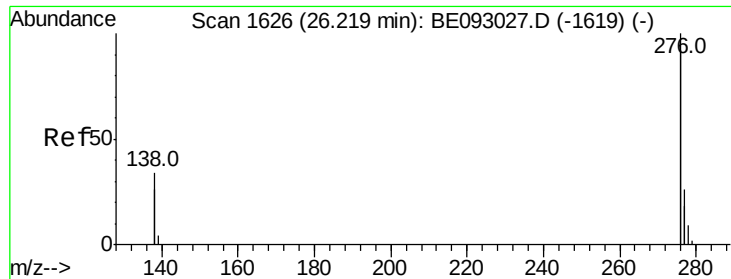


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.38 ng

RT: 26.22 min Scan# 1625

Delta R.T. -0.00 min

Lab File: BE093055.D

Acq: 19 May 2017 11:28

Instrument :

BNA_E

ClientSampleId :

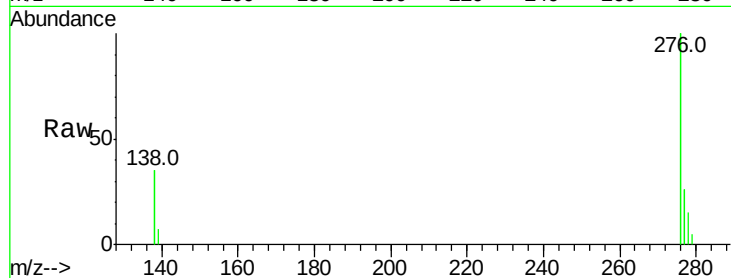
Tot Ion:276 Resp: 20259

Ion Ratio Lower Upper

276 100

138 34.0 27.4 41.2

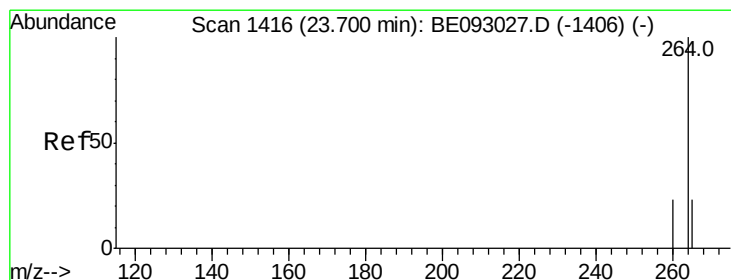
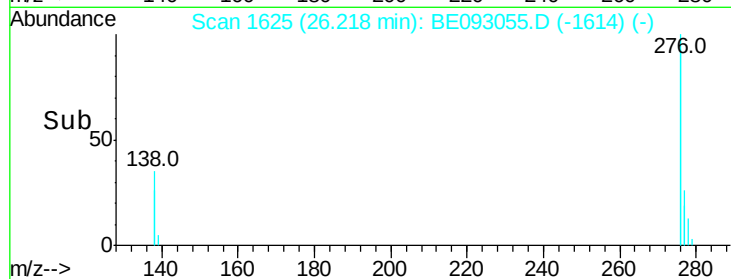
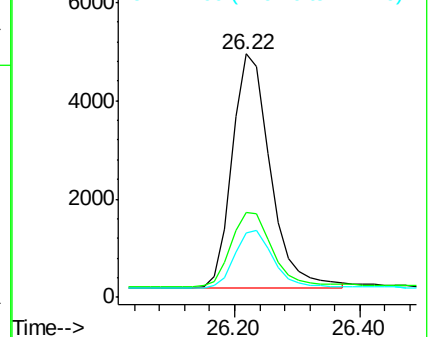
277 24.9 20.1 30.1



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



#34

Perylene-d12

Concen: 0.40 ng

RT: 23.69 min Scan# 1414

Delta R.T. -0.01 min

Lab File: BE093055.D

Acq: 19 May 2017 11:28

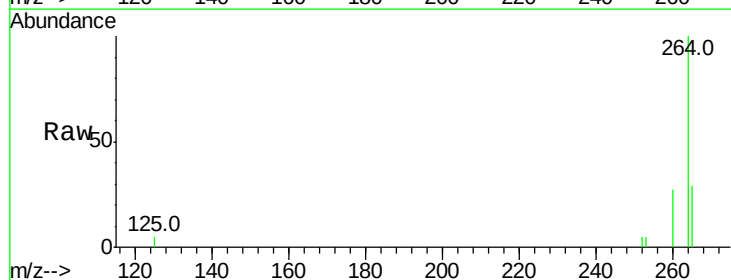
Tgt Ion:264 Resp: 4262

Ion Ratio Lower Upper

264 100

260 27.2 21.0 31.4

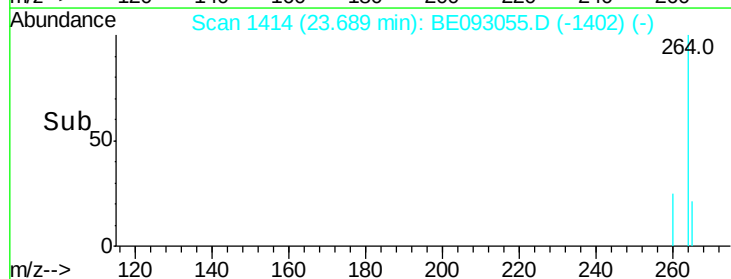
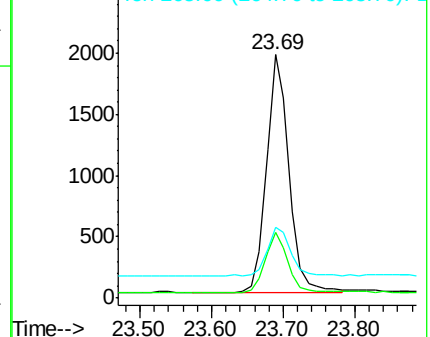
265 29.2 24.6 36.8

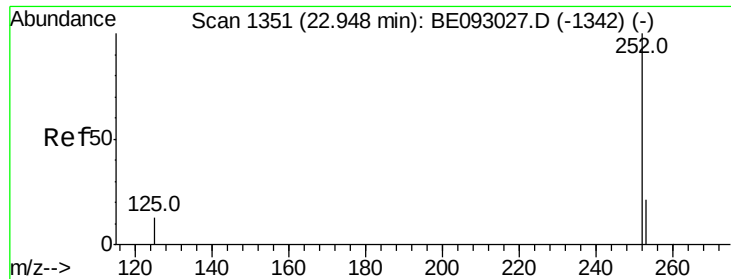


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.40 ng

RT: 22.95 min Scan# 1350

Delta R.T. 0.00 min

Lab File: BE093055.D

Acq: 19 May 2017 11:28

Instrument :

BNA_E

ClientSampleId :

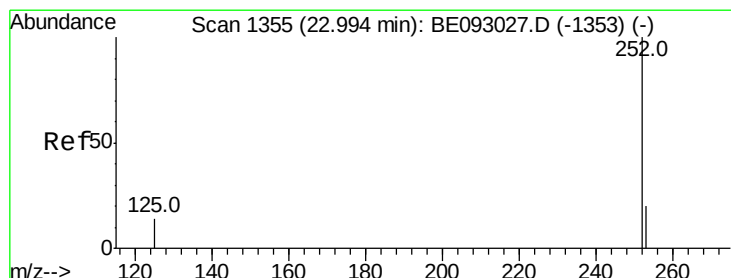
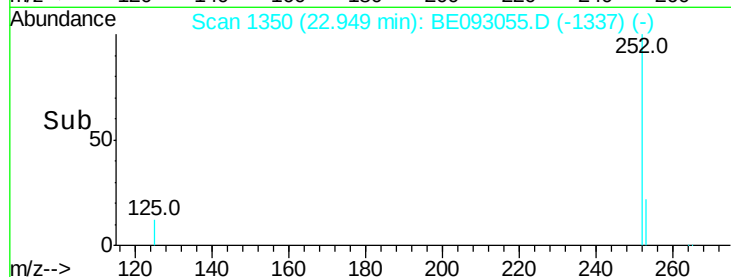
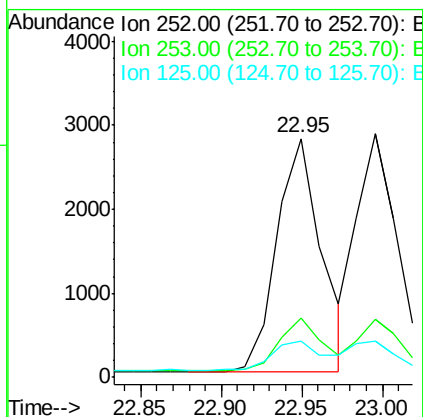
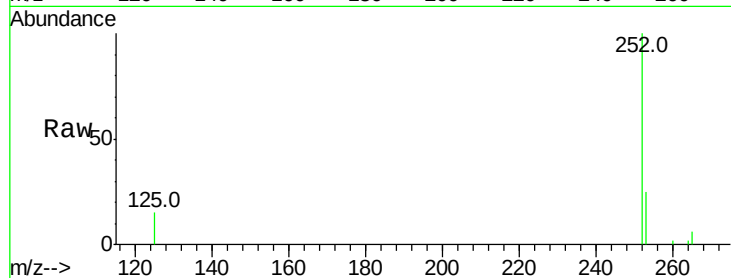
Tot Ion:252 Resp: 5367

Ion Ratio Lower Upper

252 100

253 24.7 18.5 27.7

125 15.1 13.4 20.0



#36

Benzo(k)fluoranthene

Concen: 0.37 ng

RT: 23.00 min Scan# 1354

Delta R.T. 0.00 min

Lab File: BE093055.D

Acq: 19 May 2017 11:28

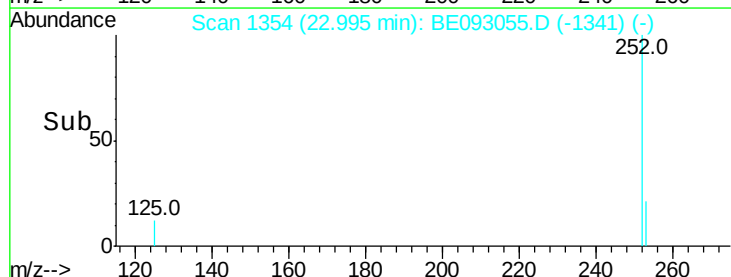
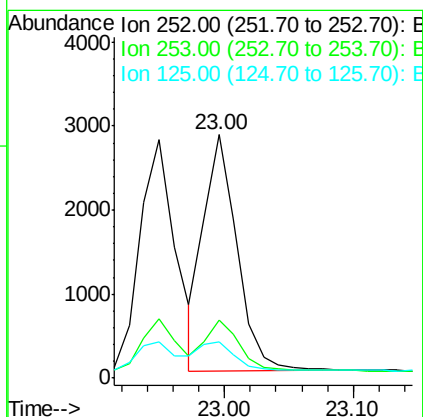
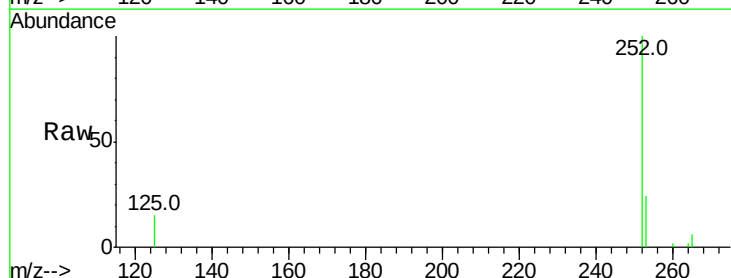
Tgt Ion:252 Resp: 5063

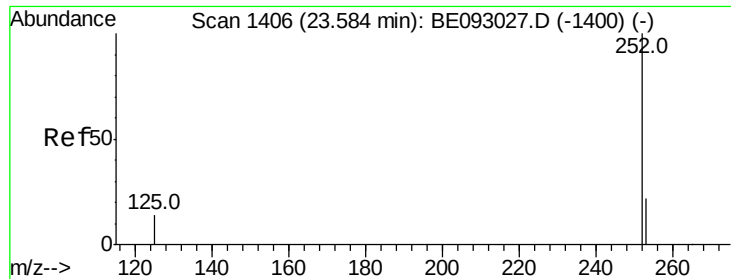
Ion Ratio Lower Upper

252 100

253 23.7 20.3 30.5

125 15.0 12.2 18.4

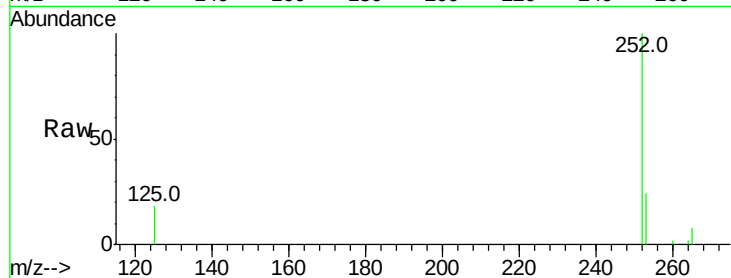




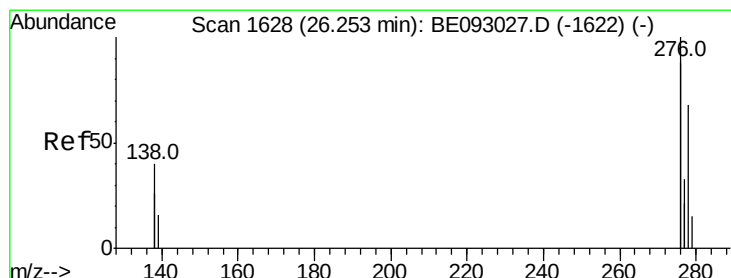
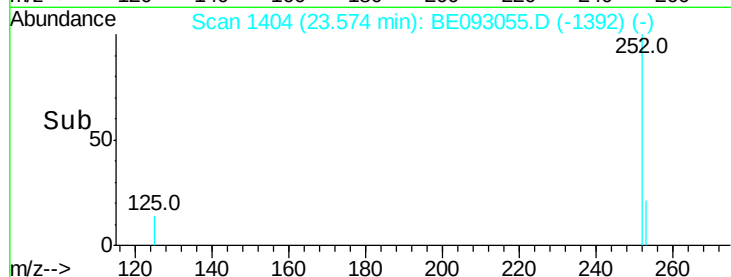
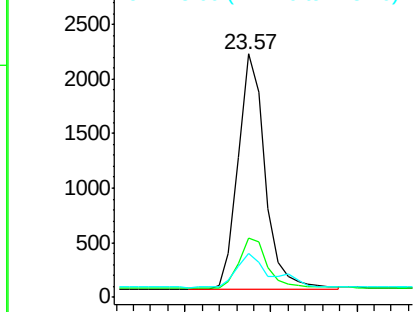
#37
Benzo(a)pyrene
Concen: 0.39 ng
RT: 23.57 min Scan# 1404
Delta R.T. -0.01 min
Lab File: BE093055.D
Acq: 19 May 2017 11:28

Instrument :
BNA_E
ClientSampleId :

Tot Ion:252 Resp: 4777
Ion Ratio Lower Upper
252 100
253 24.2 19.9 29.9
125 17.9 14.6 21.8

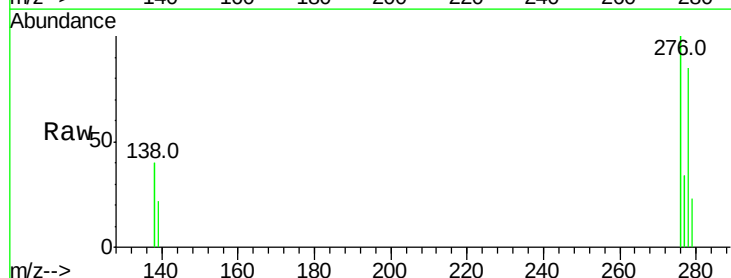


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

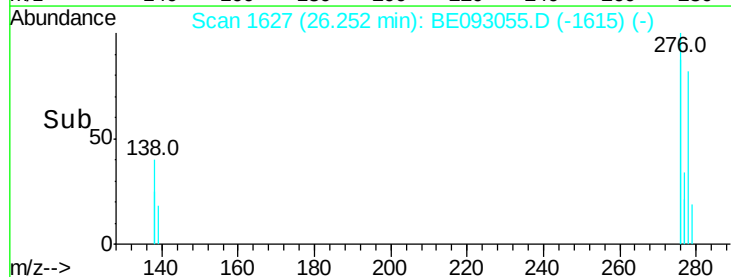
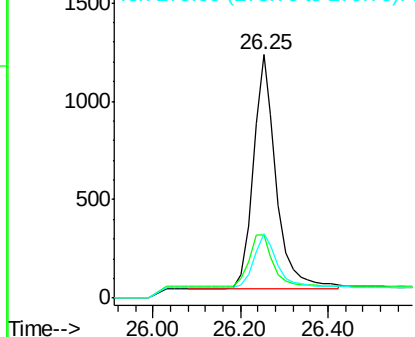


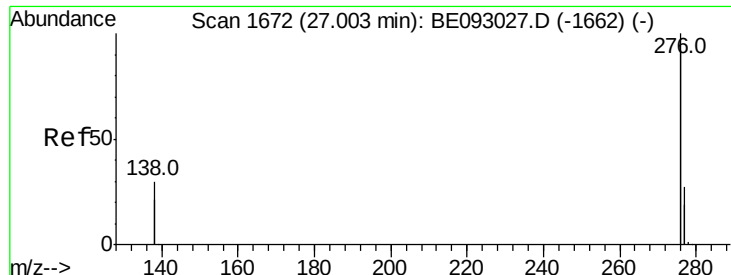
#38
Dibenzo(a,h)anthracene
Concen: 0.38 ng
RT: 26.25 min Scan# 1627
Delta R.T. -0.00 min
Lab File: BE093055.D
Acq: 19 May 2017 11:28

Tgt Ion:278 Resp: 4339
Ion Ratio Lower Upper
278 100
139 25.9 21.4 32.0
279 26.6 22.2 33.2



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





#39

Benzo(a,h,i)perylene

Concen: 0.39 ng

RT: 27.00 min Scan# 1671

Delta R.T. -0.00 min

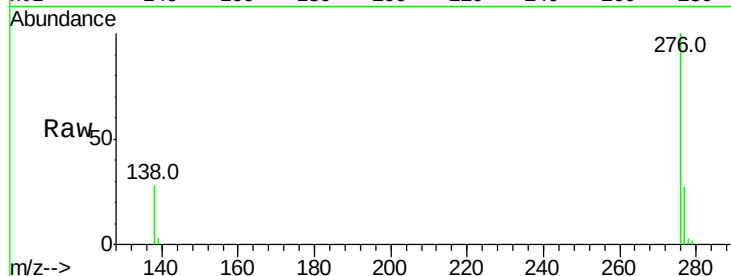
Lab File: BE093055.D

Acq: 19 May 2017 11:28

Instrument :

BNA_E

ClientSampleId :



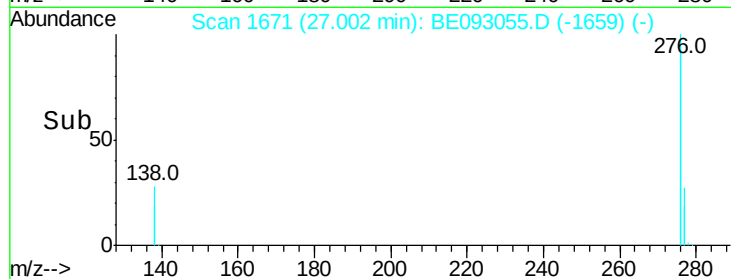
Tot Ion:276 Resp: 19417

Ion Ratio Lower Upper

276 100

277 26.6 21.2 31.8

138 28.2 24.5 36.7



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

