

Data Path : Z:\HPCHEM1\BNA E\DATA\BE040418\
 Data File : BE095946.D
 Acq On : 4 Apr 2018 14:26
 Operator : SJ/JU
 Sample : J2148-03
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Apr 05 02:48:15 2018
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE032318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 23 12:41:11 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.42	152	644	0.40	ng	0.00
7) Naphthalene-d8	11.26	136	2522	0.40	ng	0.00
13) Acenaphthene-d10	14.99	164	1375	0.40	ng	-0.01
19) Phenanthrene-d10	17.70	188	3050	0.40	ng	-0.01
27) Chrysene-d12	21.79	240	3415	0.40	ng	-0.01
34) Perylene-d12	24.42	264	3422	0.40	ng	-0.02

System Monitoring Compounds						
4) 2-Fluorophenol	5.91	112	1530	0.72	ng	0.00
5) Phenol-d6	7.56	99	2318	0.79	ng	0.00
8) Nitrobenzene-d5	9.59	82	2271	0.76	ng	0.00
11) 2-Methylnaphthalene-d10	12.79	152	2877	0.68	ng	0.00
14) 2,4,6-Tribromophenol	16.46	330	565	0.71	ng	-0.01
15) 2-Fluorobiphenyl	13.63	172	4246	0.73	ng	-0.01
25) Fluoranthene-d10	19.68	212	24066	0.53	ng	0.00
29) Terphenyl-d14	20.24	244	4035	0.56	ng	0.00

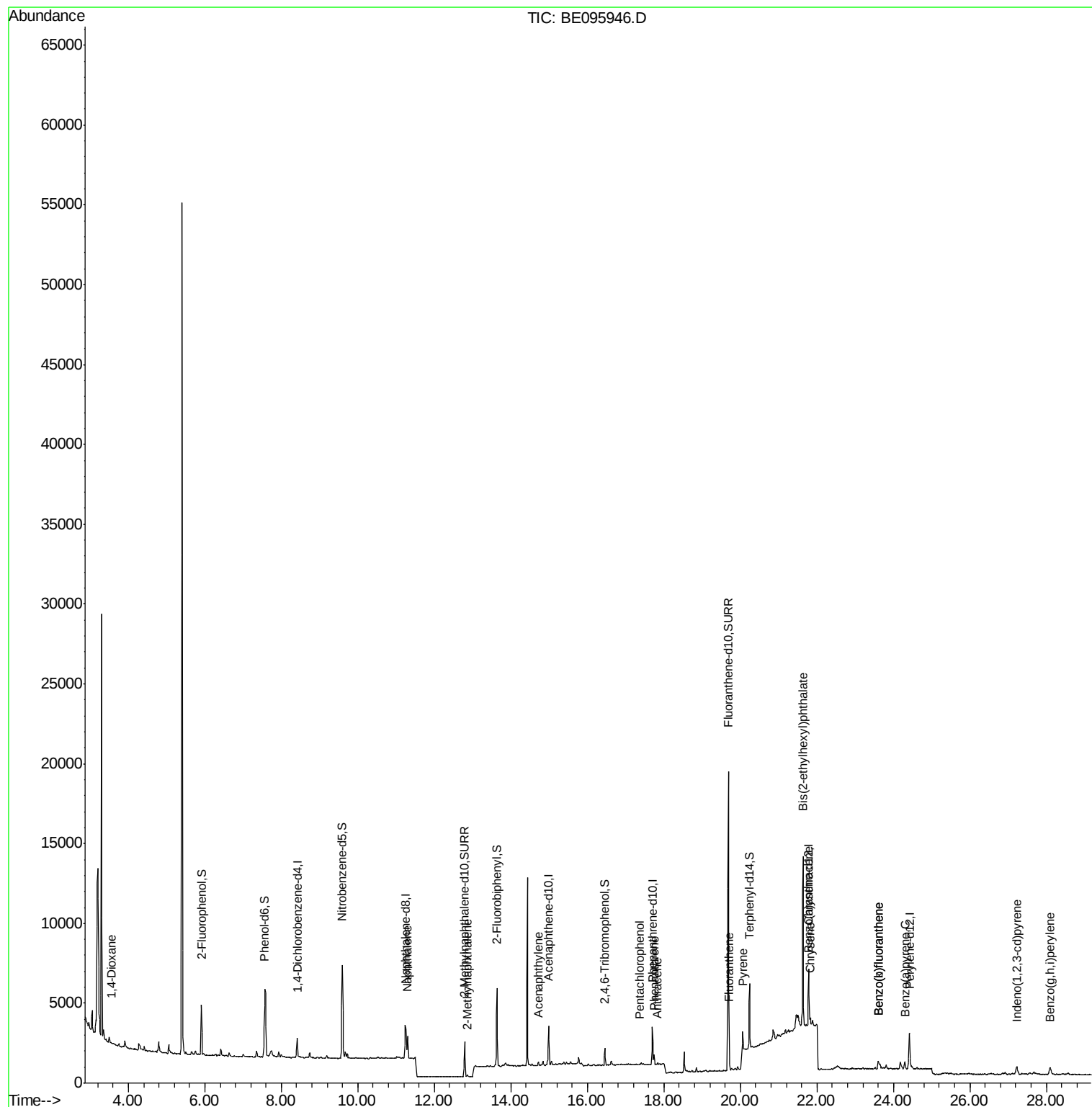
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.56	88	23	0.022	ng	# 16
9) Naphthalene	11.29	128	2072	0.072	ng	# 92
12) 2-Methylnaphthalene	12.86	142	115	0.023	ng	# 81
16) Acenaphthylene	14.73	152	331	0.042	ng	98
22) Pentachlorophenol	17.36	266	22	0.163	ng	97
23) Phenanthrene	17.74	178	655	0.072	ng	# 93
24) Anthracene	17.82	178	185	0.020	ng	# 76
26) Fluoranthene	19.71	202	1141	0.090	ng	95
28) Pyrene	20.06	202	1422	0.102	ng	96
30) Benzo(a)anthracene	21.78	228	553	0.047	ng	# 63
31) Chrysene	21.83	228	577	0.053	ng	# 60
32) Bis(2-ethylhexyl)phthalate	21.64	149	15039	0.415	ng	99
33) Indeno(1,2,3-cd)pyrene	27.22	276	440	0.038	ng	# 69
35) Benzo(b)fluoranthene	23.61	252	1084	0.096	ng	# 48
36) Benzo(k)fluoranthene	23.61	252	1084	0.096	ng	# 26
37) Benzo(a)pyrene	24.30	252	744	0.070	ng	# 18
39) Benzo(a,h,i)perylene	28.10	276	1192	0.118	ng	# 69

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

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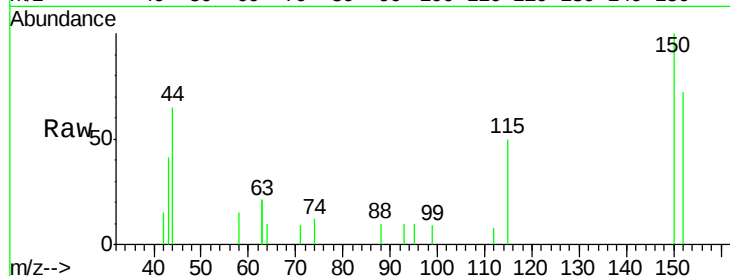


#1

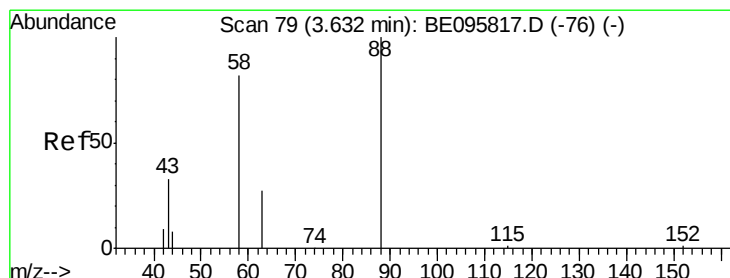
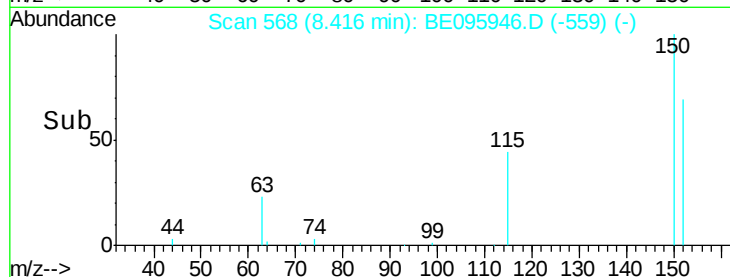
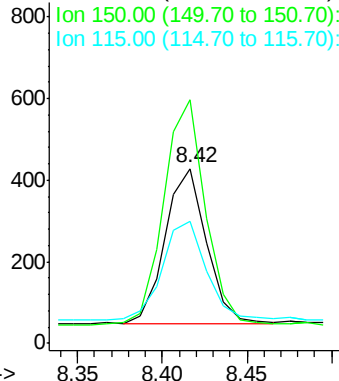
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.42 min Scan# 568
Delta R.T. -0.01 min
Lab File: BE095946.D
Acq: 4 Apr 2018 14:26

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 644
Ion Ratio Lower Upper
152 100
150 139.5 117.2 175.8
115 70.1 57.0 85.6



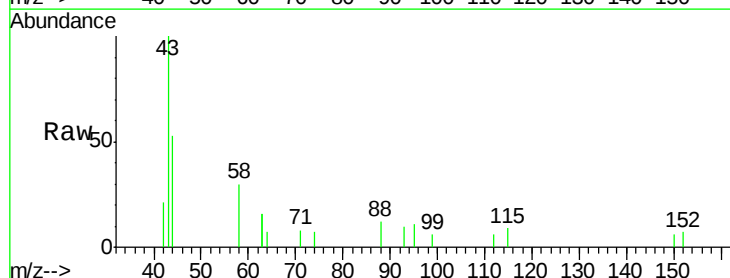
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



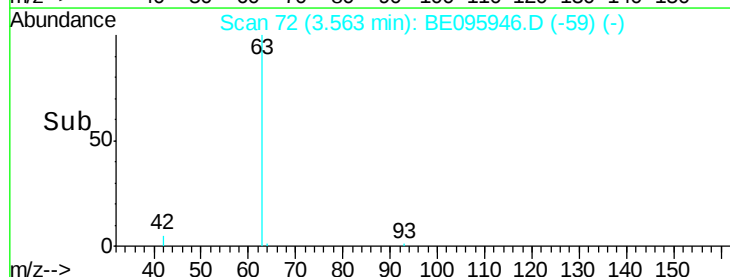
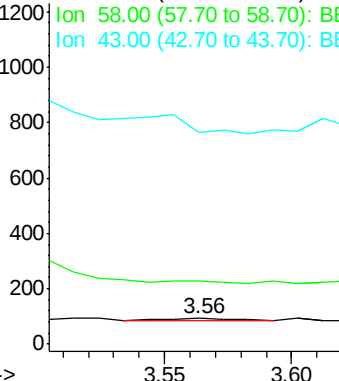
#2

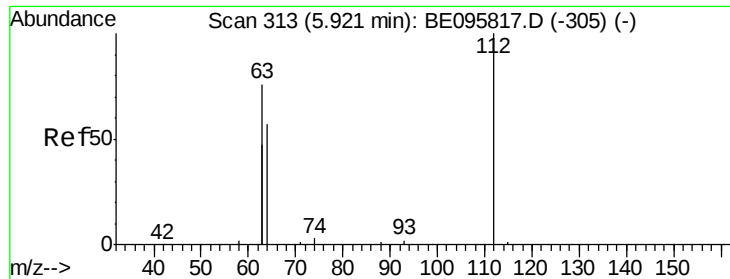
1,4-Dioxane
Concen: 0.022 ng
RT: 3.56 min Scan# 72
Delta R.T. -0.07 min
Lab File: BE095946.D
Acq: 4 Apr 2018 14:26

Tgt Ion: 88 Resp: 23
Ion Ratio Lower Upper
88 100
58 0.0 63.2 94.8#
43 0.0 41.2 61.8#



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





#4

2-Fluorophenol

Concen: 0.721 ng

RT: 5.91 min Scan# 312

Delta R.T. -0.01 min

Lab File: BE095946.D

Acq: 4 Apr 2018 14:26

Instrument :

BNA_E

ClientSampleId :

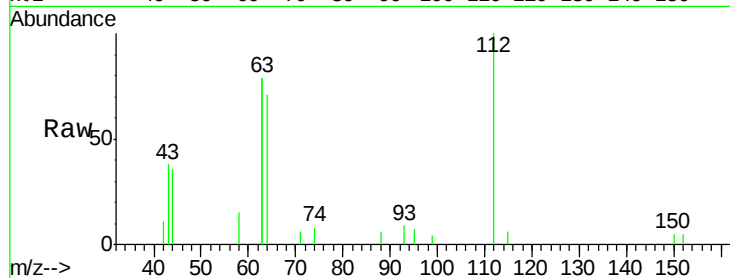
Tot Ion:112 Resp: 1530

Ion Ratio Lower Upper

112 100

64 76.3 60.1 90.1

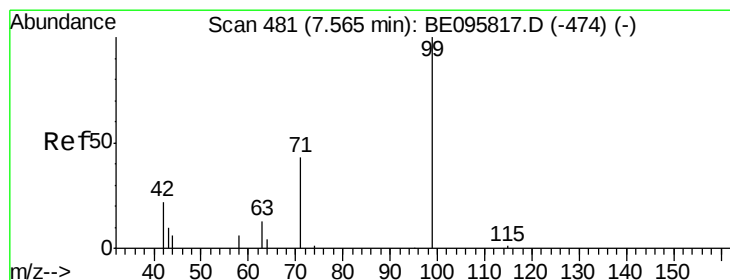
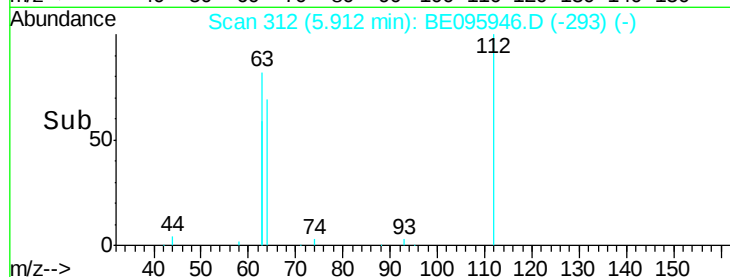
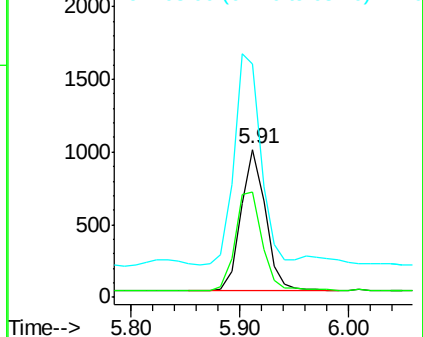
63 162.4 116.8 175.2



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: 0.794 ng

RT: 7.56 min Scan# 480

Delta R.T. -0.01 min

Lab File: BE095946.D

Acq: 4 Apr 2018 14:26

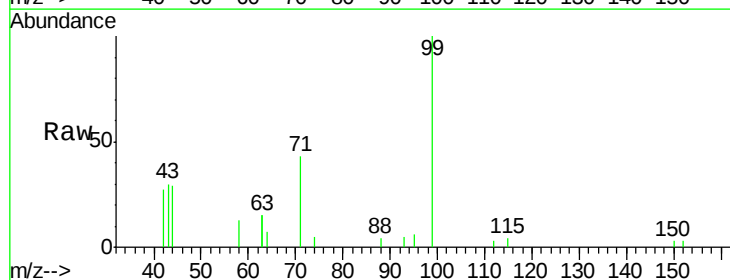
Tgt Ion: 99 Resp: 2318

Ion Ratio Lower Upper

99 100

42 31.4 20.2 30.2#

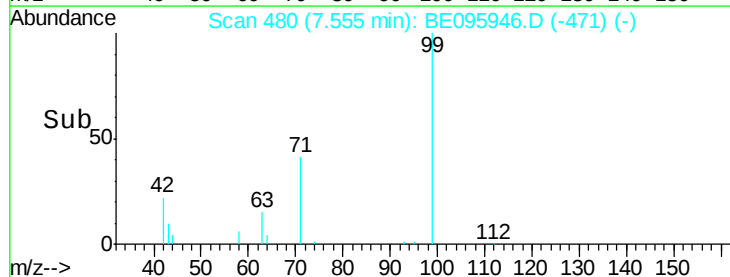
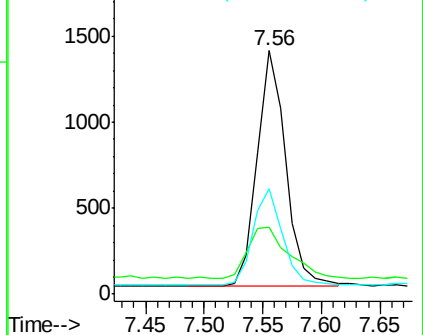
71 42.1 28.4 42.6

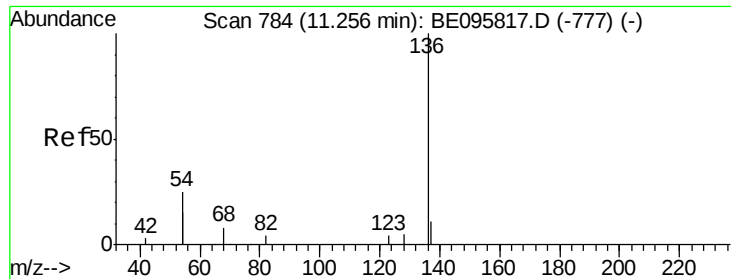


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 11.26 min Scan# 784

Delta R.T. -0.00 min

Lab File: BE095946.D

Acq: 4 Apr 2018 14:26

Instrument :

BNA_E

ClientSampled :

Tot Ion:136 Resp: 2522

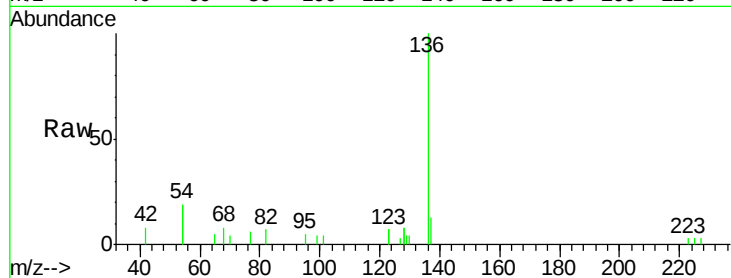
Ion Ratio Lower Upper

136 100

137 13.3 9.5 14.3

54 37.9 29.1 43.7

68 8.3 6.2 9.2

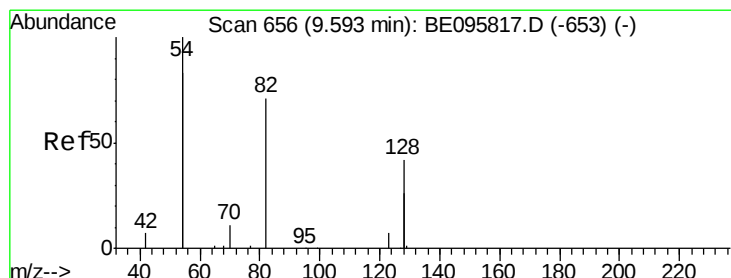
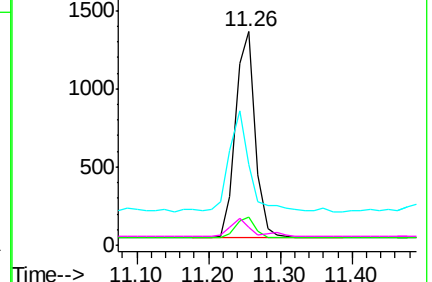
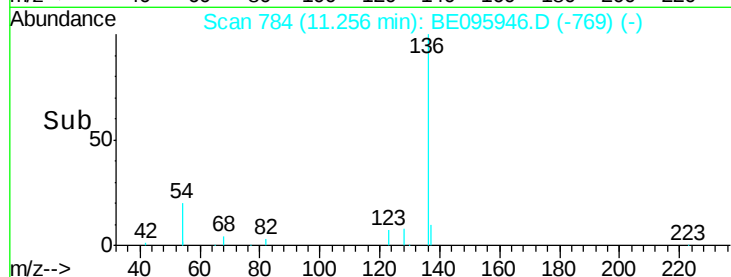


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.762 ng

RT: 9.59 min Scan# 656

Delta R.T. -0.00 min

Lab File: BE095946.D

Acq: 4 Apr 2018 14:26

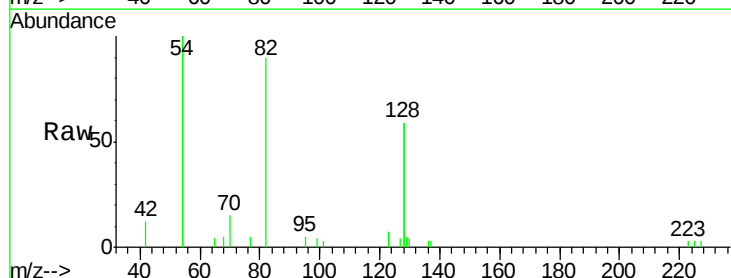
Tgt Ion: 82 Resp: 2271

Ion Ratio Lower Upper

82 100

128 130.4 150.0 225.0#

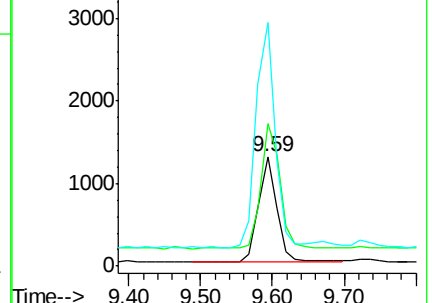
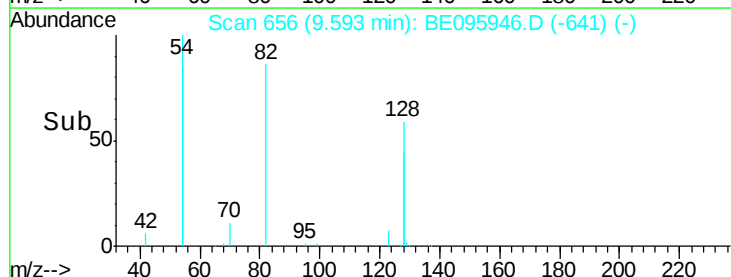
54 221.8 154.2 231.4

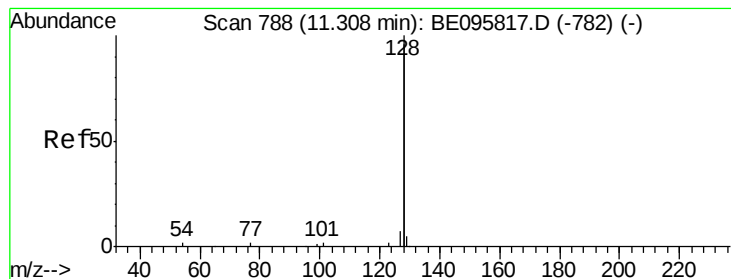


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.072 ng

RT: 11.29 min Scan# 787

Delta R.T. -0.01 min

Lab File: BE095946.D

Acq: 4 Apr 2018 14:26

Instrument :

BNA_E

ClientSampleId :

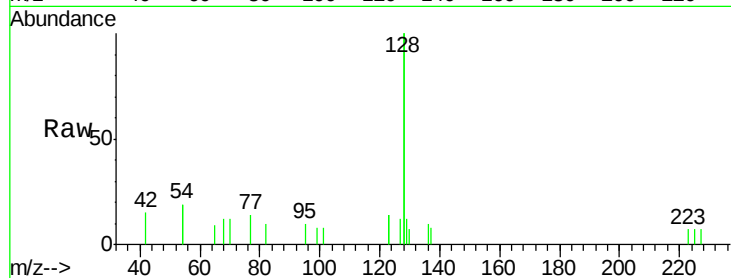
Tot Ion:128 Resp: 2072

Ion Ratio Lower Upper

128 100

129 6.0 2.6 3.8#

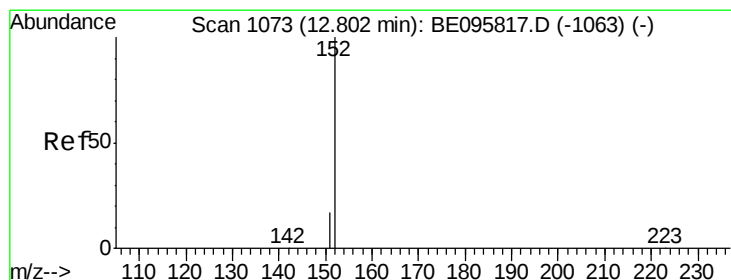
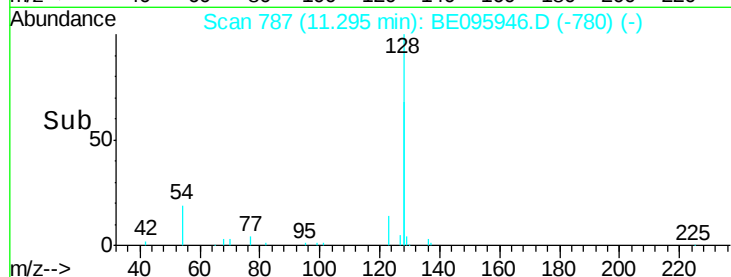
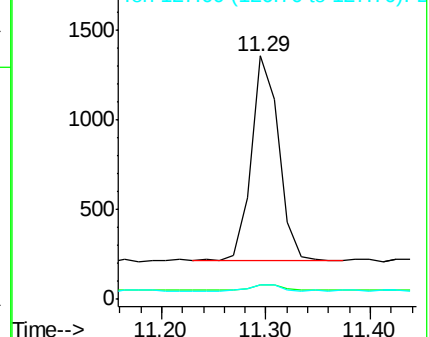
127 6.0 2.8 4.2#



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-d10

Concen: 0.683 ng

RT: 12.79 min Scan# 1071

Delta R.T. -0.01 min

Lab File: BE095946.D

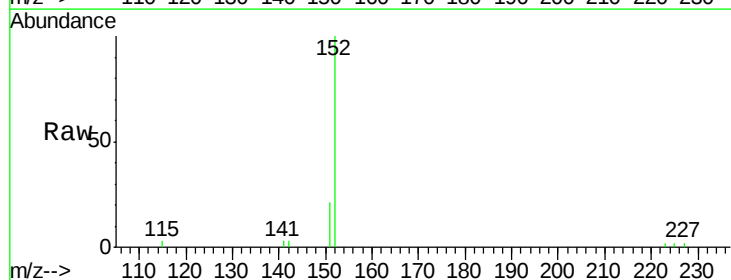
Acq: 4 Apr 2018 14:26

Tgt Ion:152 Resp: 2877

Ion Ratio Lower Upper

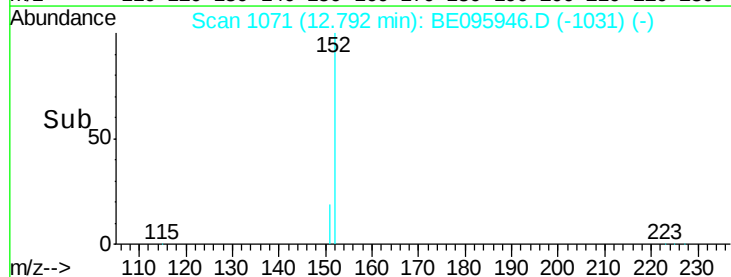
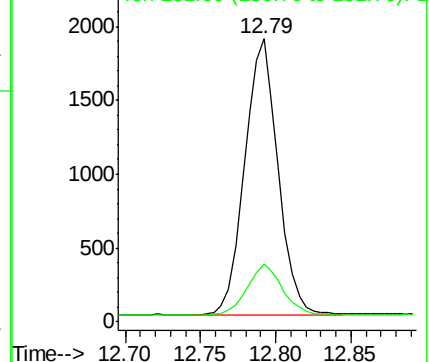
152 100

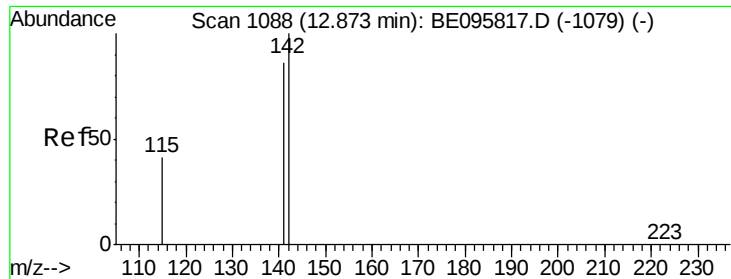
151 19.4 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

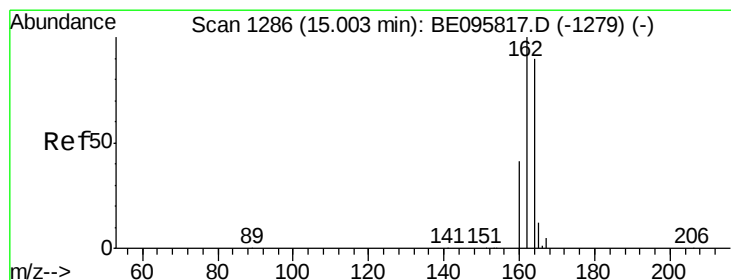
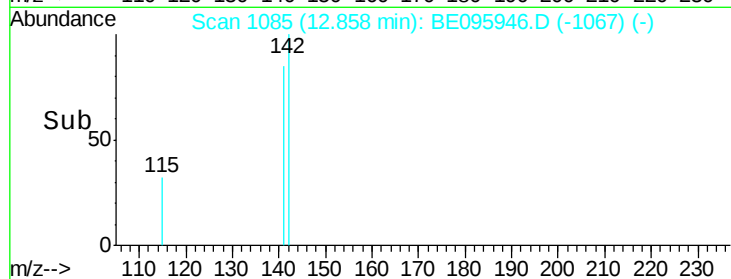
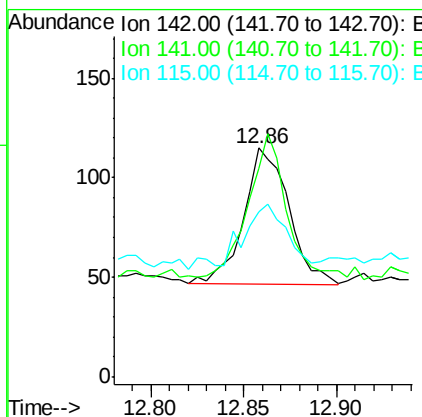
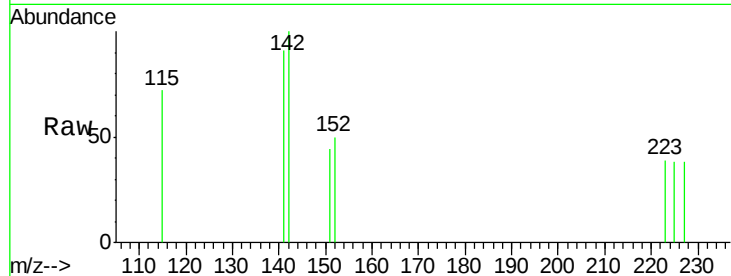




#12
2-Methylnaphthalene
Concen: 0.023 ng
RT: 12.86 min Scan# 1085
Delta R.T. -0.01 min
Lab File: BE095946.D
Acq: 4 Apr 2018 14:26

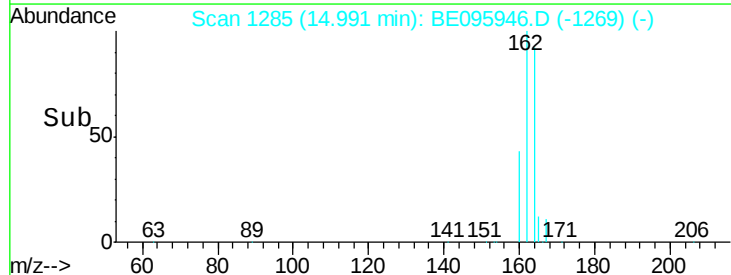
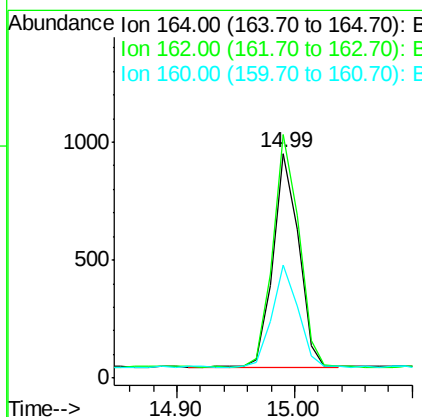
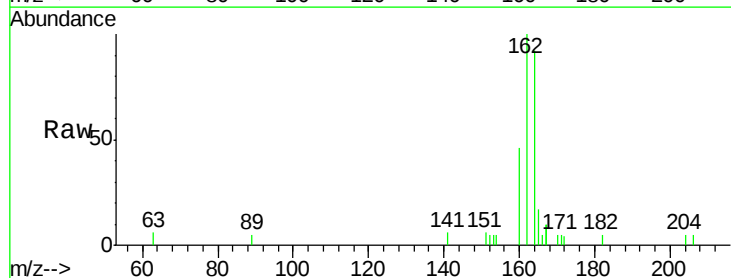
Instrument :
BNA_E
ClientSampled :

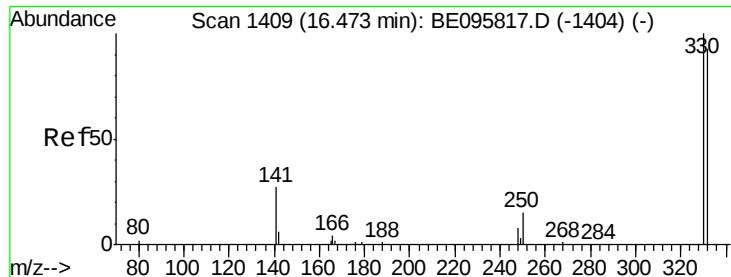
Tot Ion:142 Resp: 115
Ion Ratio Lower Upper
142 100
141 91.3 70.4 105.6
115 72.2 31.7 47.5#



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.99 min Scan# 1285
Delta R.T. -0.01 min
Lab File: BE095946.D
Acq: 4 Apr 2018 14:26

Tgt Ion:164 Resp: 1375
Ion Ratio Lower Upper
164 100
162 108.4 83.1 124.7
160 50.1 37.1 55.7

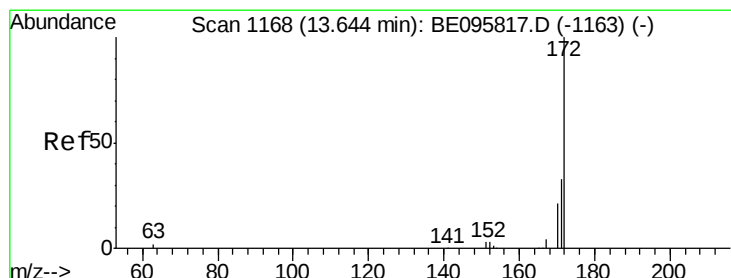
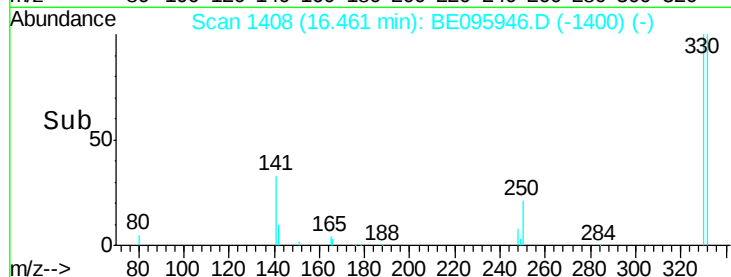
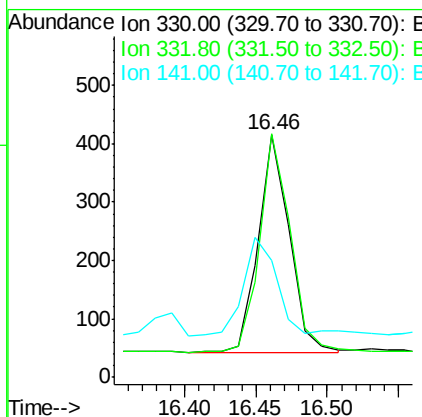
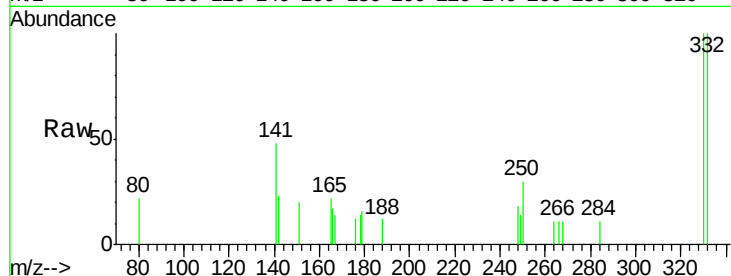




#14
 2,4,6-Tribromophenol
 Concen: 0.712 ng
 RT: 16.46 min Scan# 1408
 Delta R.T. -0.01 min
 Lab File: BE095946.D
 Acq: 4 Apr 2018 14:26

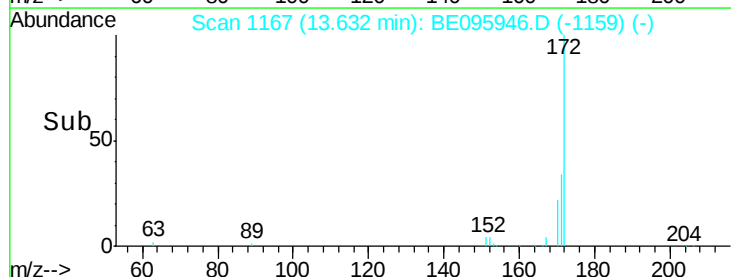
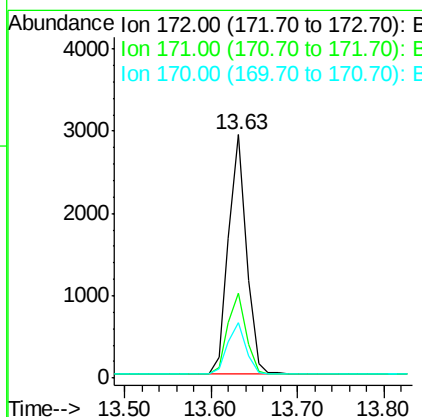
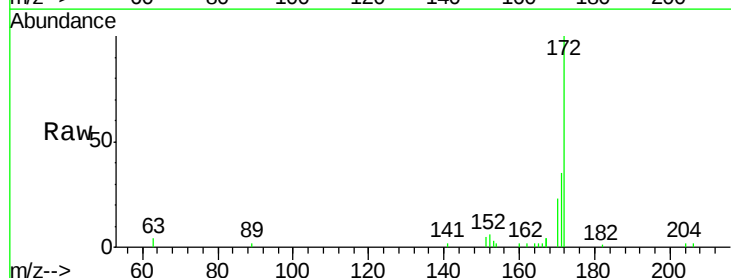
Instrument :
 BNA_E
 ClientSampled :

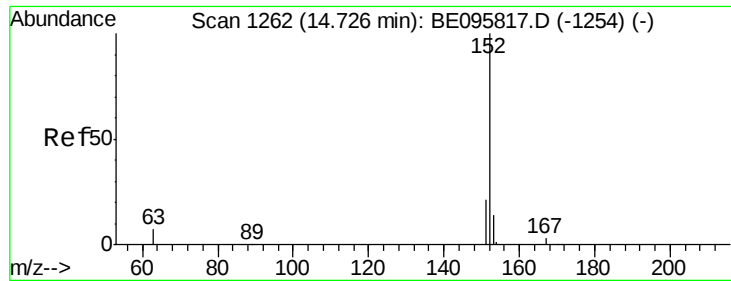
Tot Ion:330 Resp: 565
 Ion Ratio Lower Upper
 330 100
 332 98.2 152.7 229.1#
 141 47.6 33.7 50.5



#15
 2-Fluorobiphenyl
 Concen: 0.733 ng
 RT: 13.63 min Scan# 1167
 Delta R.T. -0.01 min
 Lab File: BE095946.D
 Acq: 4 Apr 2018 14:26

Tgt Ion:172 Resp: 4246
 Ion Ratio Lower Upper
 172 100
 171 34.8 29.9 44.9
 170 22.9 21.8 32.8





#16

Acenaphthylene

Concen: 0.042 ng

RT: 14.73 min Scan# 1262

Delta R.T. -0.00 min

Lab File: BE095946.D

Acq: 4 Apr 2018 14:26

Instrument :

BNA_E

ClientSampleId :

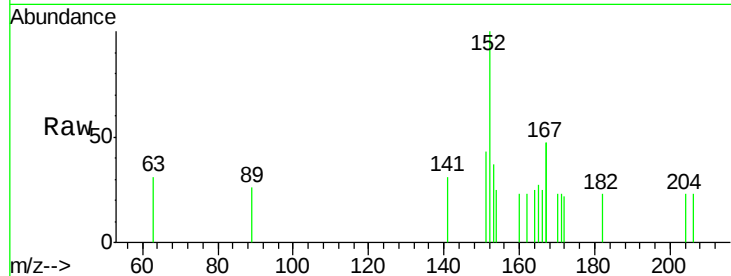
Tot Ion:152 Resp: 331

Ion Ratio Lower Upper

152 100

151 21.1 15.7 23.5

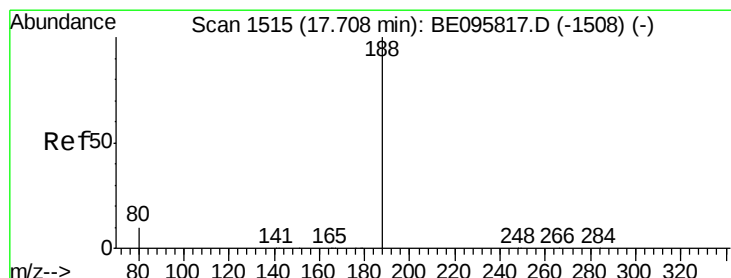
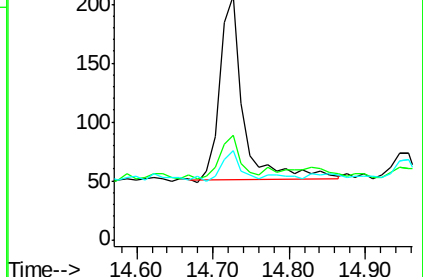
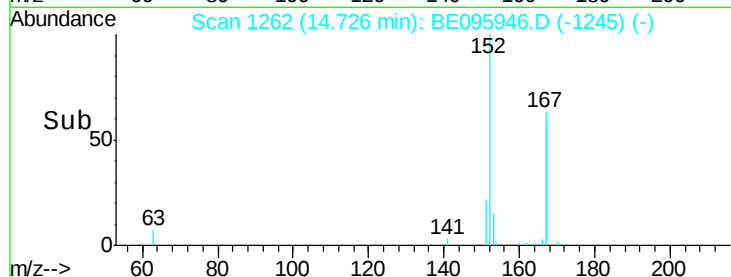
153 13.3 10.5 15.7



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



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.70 min Scan# 1514

Delta R.T. -0.01 min

Lab File: BE095946.D

Acq: 4 Apr 2018 14:26

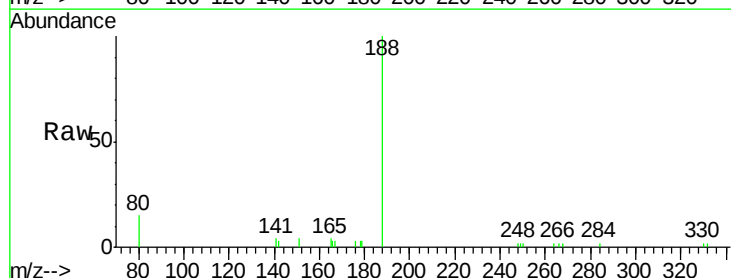
Tgt Ion:188 Resp: 3050

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

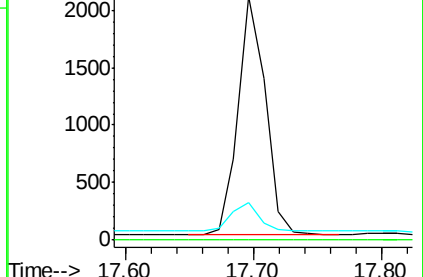
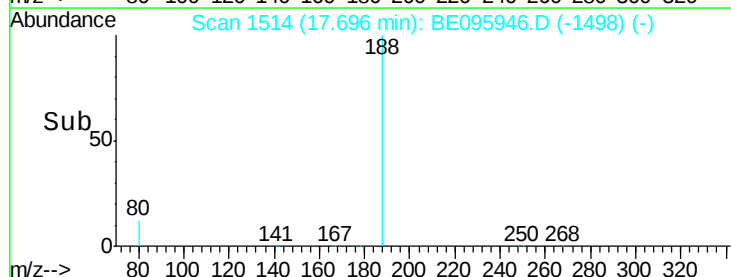
80 15.5 3.6 5.4#

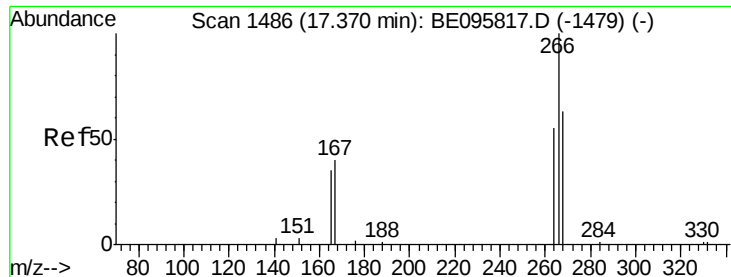


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#22

Pentachlorophenol

Concen: 0.163 ng

RT: 17.36 min Scan# 1485

Delta R.T. -0.01 min

Lab File: BE095946.D

Acq: 4 Apr 2018 14:26

Instrument :

BNA_E

ClientSampleId :

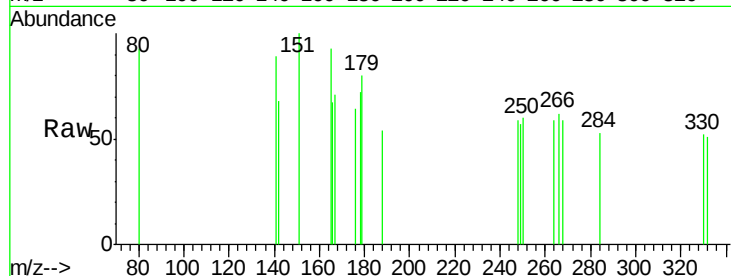
Tot Ion:266 Resp: 22

Ion Ratio Lower Upper

266 100

264 94.4 72.5 108.7

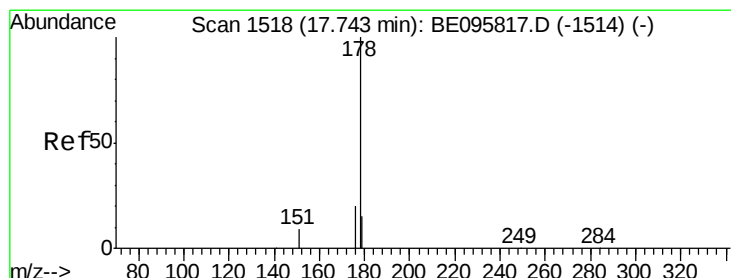
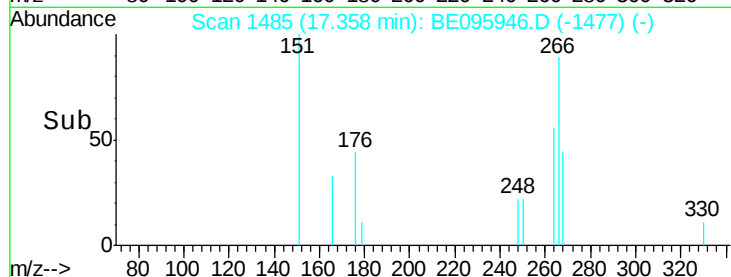
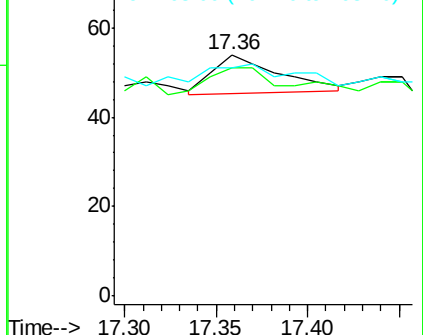
268 94.4 73.8 110.6



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: 0.072 ng

RT: 17.74 min Scan# 1518

Delta R.T. -0.00 min

Lab File: BE095946.D

Acq: 4 Apr 2018 14:26

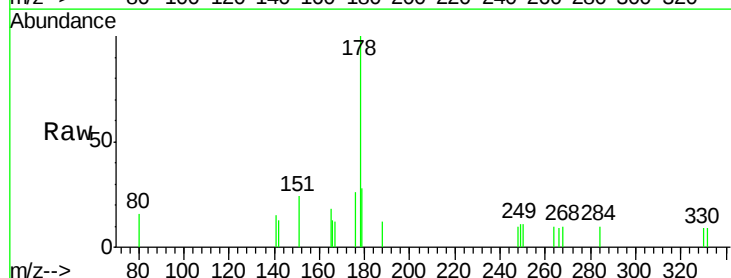
Tgt Ion:178 Resp: 655

Ion Ratio Lower Upper

178 100

176 21.5 15.1 22.7

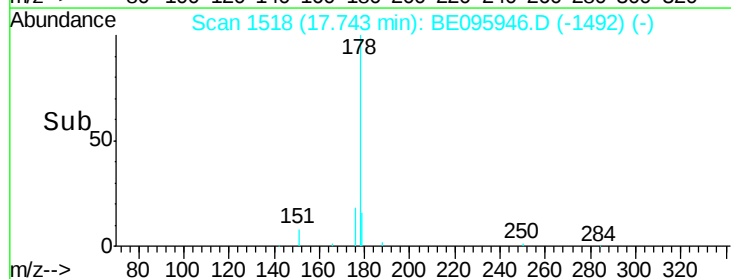
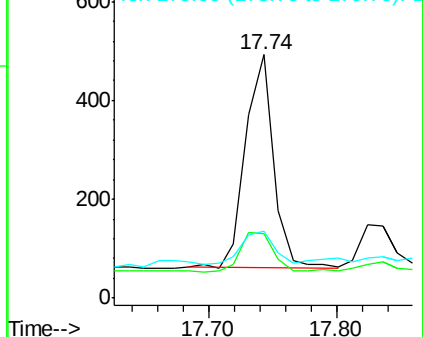
179 18.3 11.8 17.6#

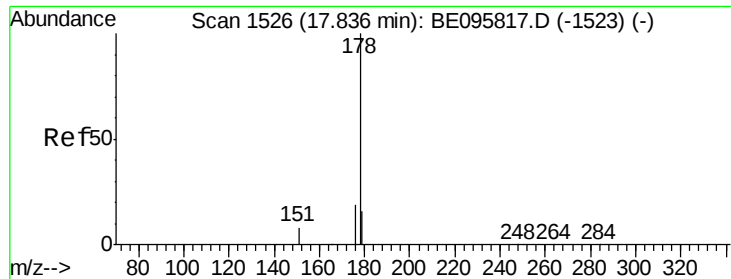


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.020 ng

RT: 17.82 min Scan# 1525

Delta R.T. -0.01 min

Lab File: BE095946.D

Acq: 4 Apr 2018 14:26

Instrument :

BNA_E

ClientSampleId :

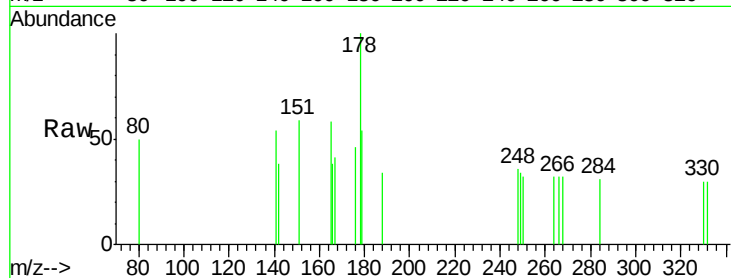
Tot Ion:178 Resp: 185

Ion Ratio Lower Upper

178 100

176 28.1 12.8 19.2#

179 8.1 13.0 19.6#

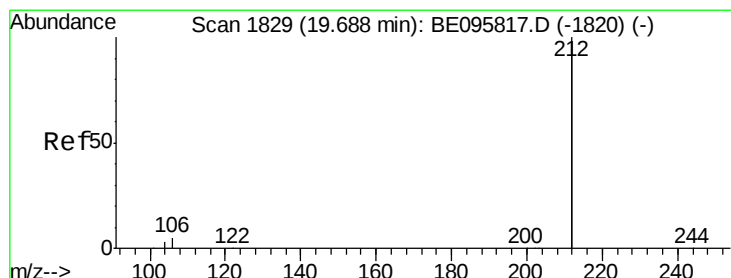
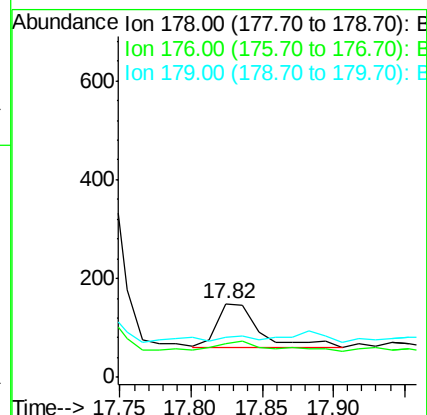
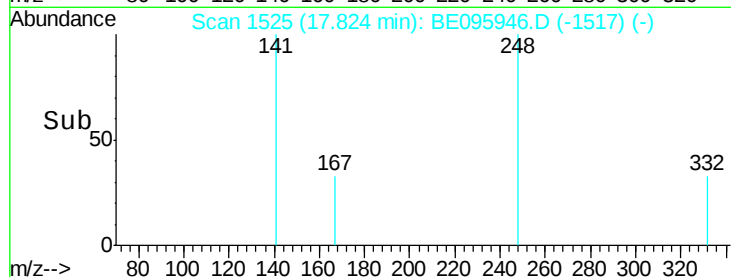


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

Time--> 17.75 17.80 17.85 17.90



#25

Fluoranthene-d10

Concen: 0.531 ng

RT: 19.68 min Scan# 1828

Delta R.T. -0.01 min

Lab File: BE095946.D

Acq: 4 Apr 2018 14:26

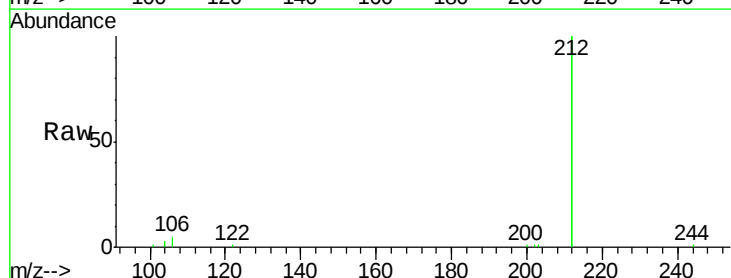
Tgt Ion:212 Resp: 24066

Ion Ratio Lower Upper

212 100

106 3.0 2.8 4.2

104 1.9 1.6 2.4

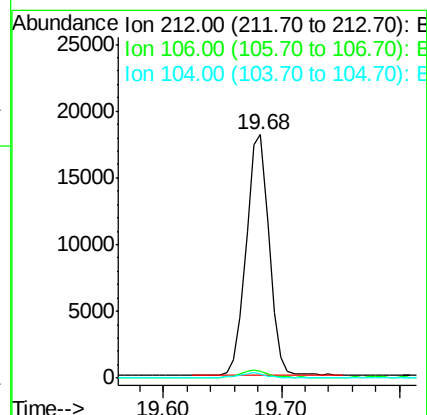
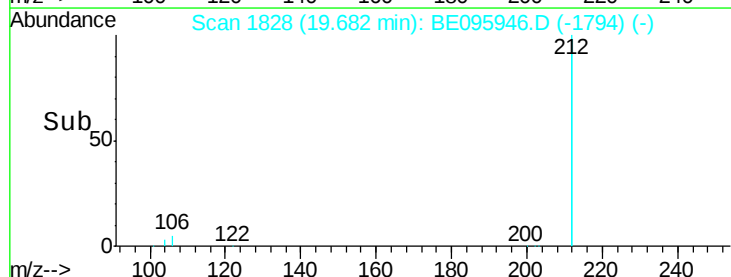


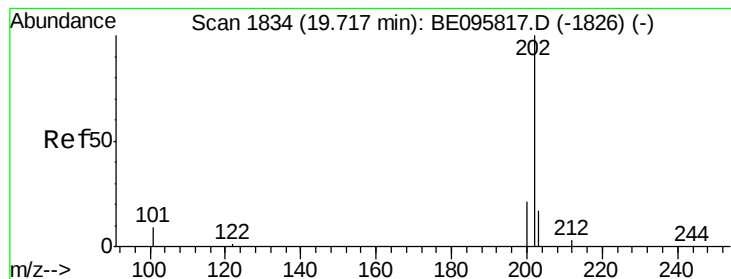
Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

Time--> 19.60 19.70





#26

Fluoranthene

Concen: 0.090 ng

RT: 19.71 min Scan# 1833

Delta R.T. -0.01 min

Lab File: BE095946.D

Acq: 4 Apr 2018 14:26

Instrument :

BNA_E

ClientSampleId :

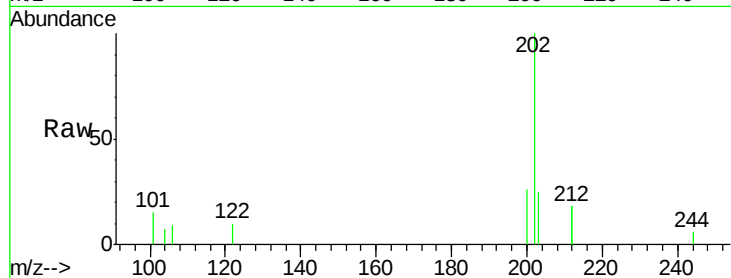
Tot Ion:202 Resp: 1141

Ion Ratio Lower Upper

202 100

101 10.7 9.8 14.8

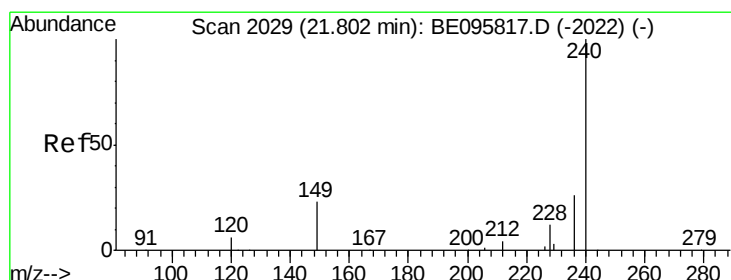
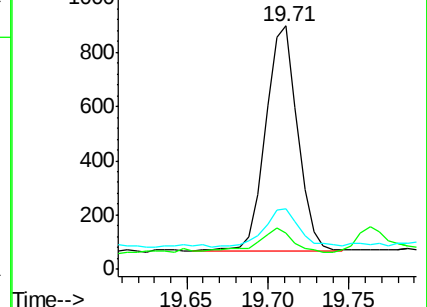
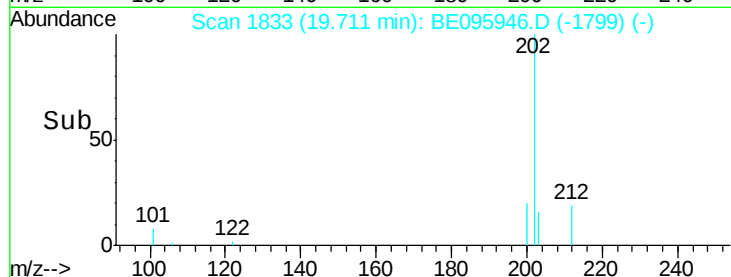
203 19.7 13.7 20.5



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



#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.79 min Scan# 2028

Delta R.T. -0.01 min

Lab File: BE095946.D

Acq: 4 Apr 2018 14:26

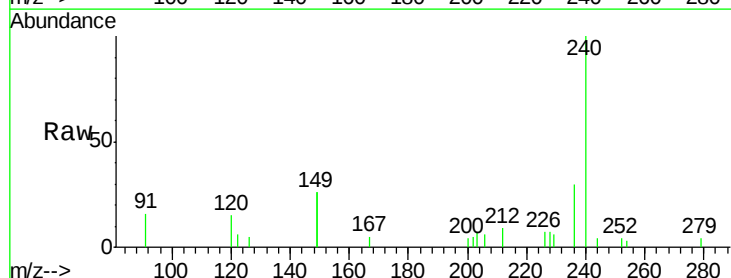
Tgt Ion:240 Resp: 3415

Ion Ratio Lower Upper

240 100

120 14.9 5.5 8.3#

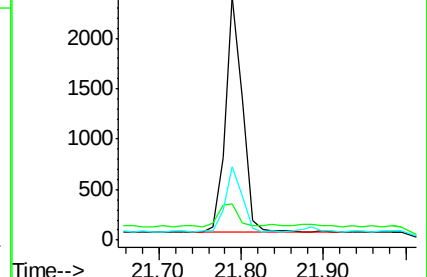
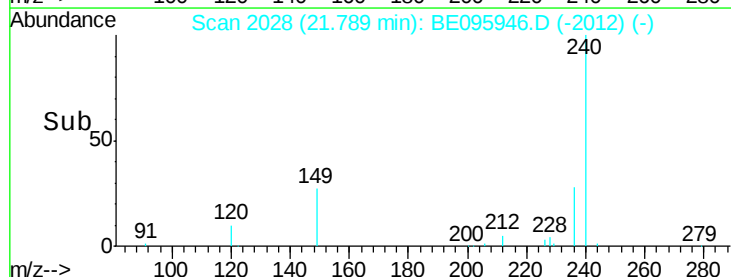
236 30.3 20.7 31.1

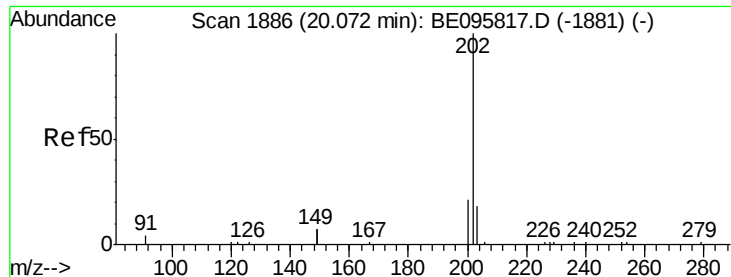


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#28

Pvrene

Concen: 0.102 ng

RT: 20.06 min Scan# 1885

Delta R.T. -0.01 min

Lab File: BE095946.D

Acq: 4 Apr 2018 14:26

Instrument :

BNA_E

ClientSampleId :

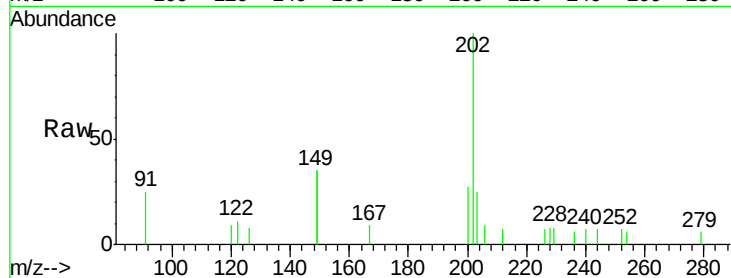
Tot Ion:202 Resp: 1422

Ion Ratio Lower Upper

202 100

200 23.1 16.6 25.0

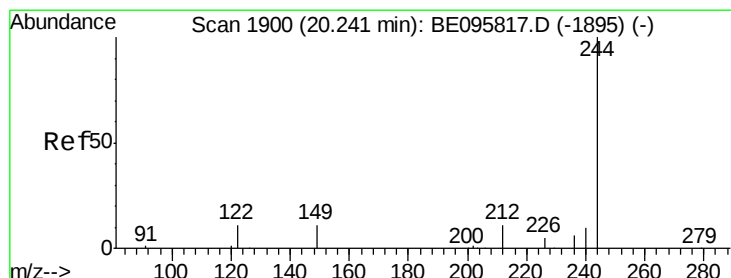
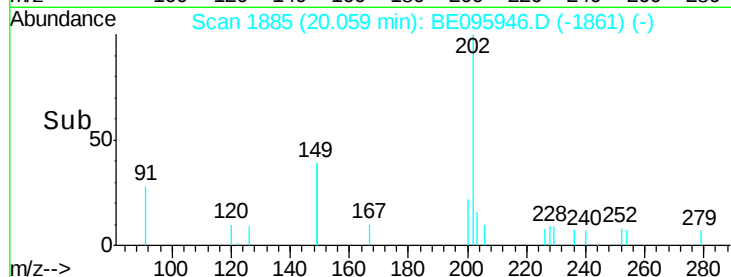
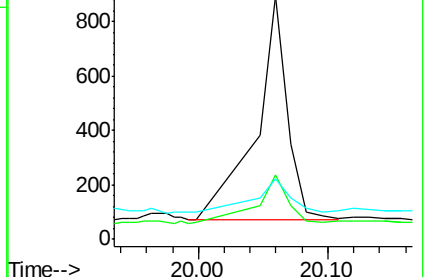
203 18.2 13.8 20.8



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: 0.556 ng

RT: 20.24 min Scan# 1900

Delta R.T. -0.00 min

Lab File: BE095946.D

Acq: 4 Apr 2018 14:26

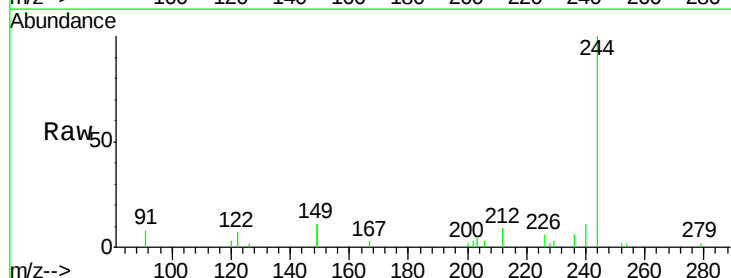
Tgt Ion:244 Resp: 4035

Ion Ratio Lower Upper

244 100

212 9.4 25.4 38.0#

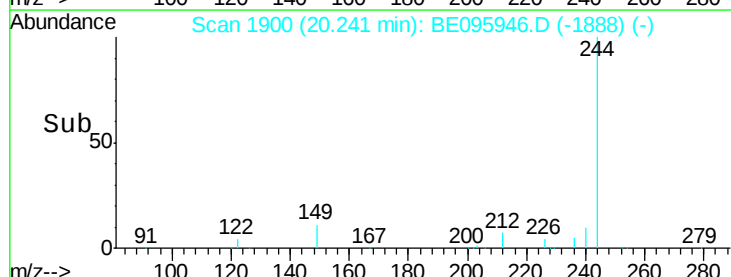
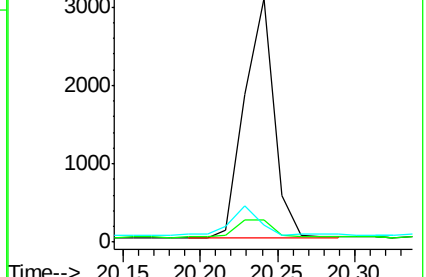
122 7.2 8.1 12.1#

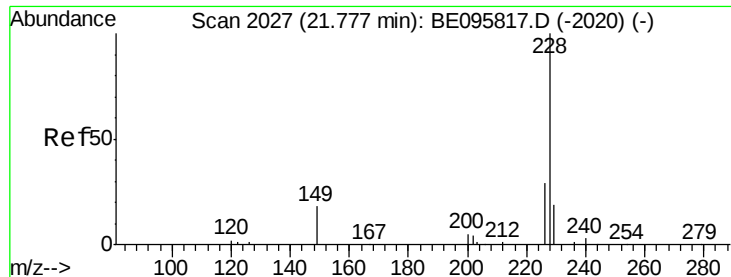


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#30

Benzo(a)anthracene

Concen: 0.047 ng

RT: 21.78 min Scan# 2027

Delta R.T. -0.00 min

Lab File: BE095946.D

Acq: 4 Apr 2018 14:26

Instrument :

BNA_E

ClientSampled :

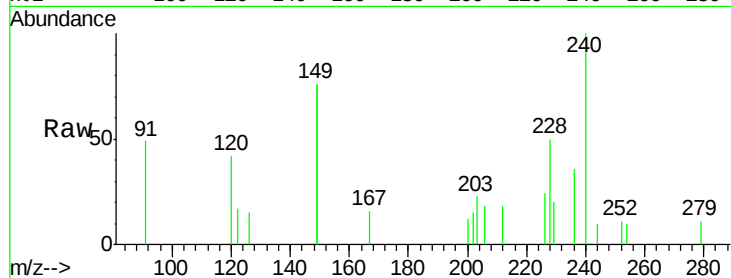
Tot Ion:228 Resp: 553

Ion Ratio Lower Upper

228 100

226 47.8 24.0 36.0#

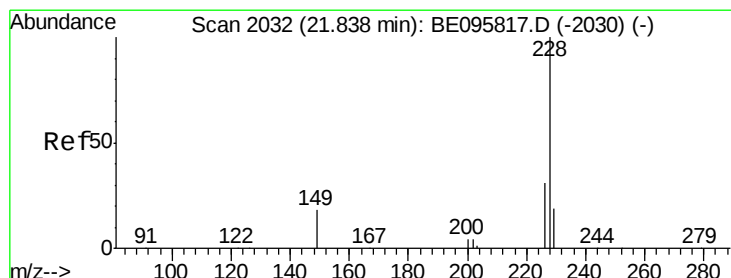
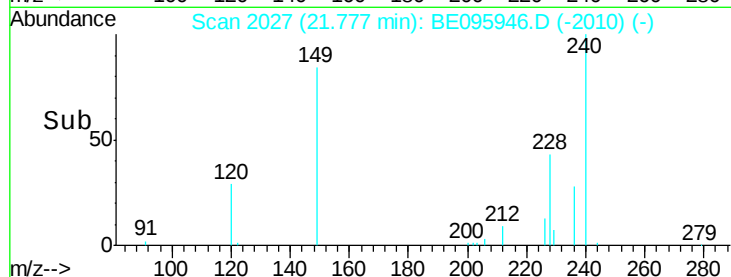
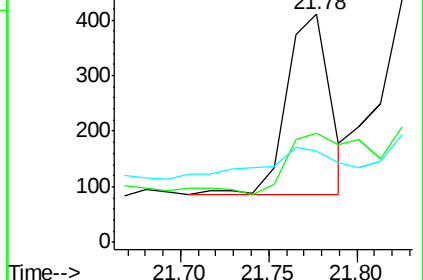
229 40.2 16.0 24.0#



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



#31

Chrysene

Concen: 0.053 ng

RT: 21.83 min Scan# 2031

Delta R.T. -0.01 min

Lab File: BE095946.D

Acq: 4 Apr 2018 14:26

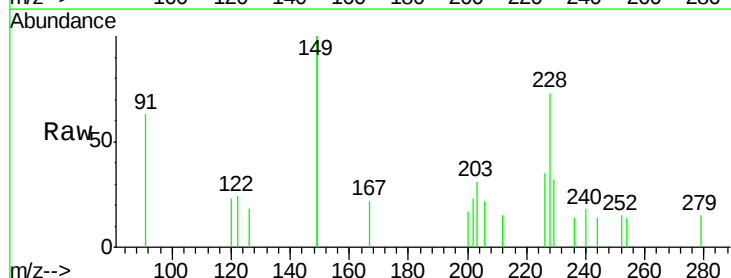
Tgt Ion:228 Resp: 577

Ion Ratio Lower Upper

228 100

226 47.3 24.0 36.0#

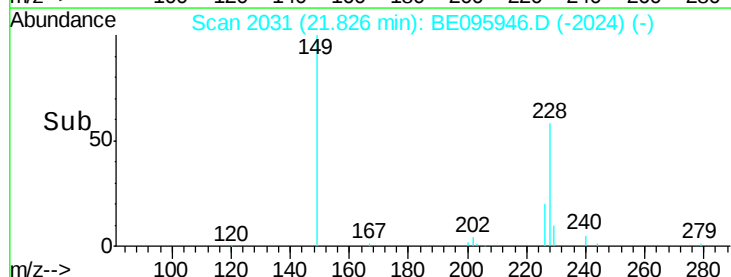
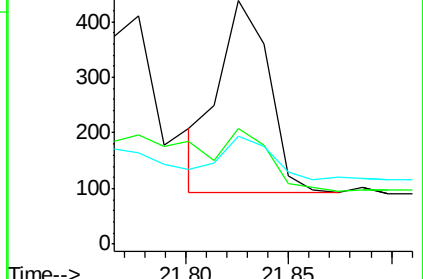
229 44.3 16.0 24.0#

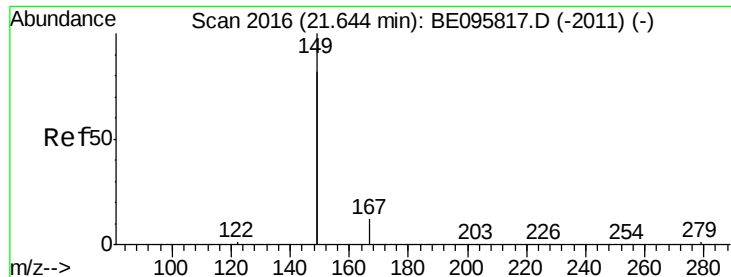


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.415 ng

RT: 21.64 min Scan# 2016

Delta R.T. 0.00 min

Lab File: BE095946.D

Acq: 4 Apr 2018 14:26

Instrument :

BNA_E

ClientSampled :

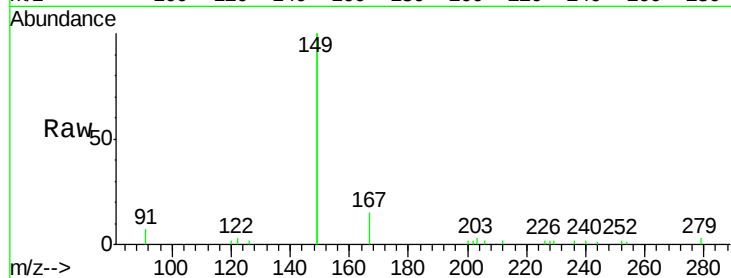
Tot Ion:149 Resp: 15039

Ion Ratio Lower Upper

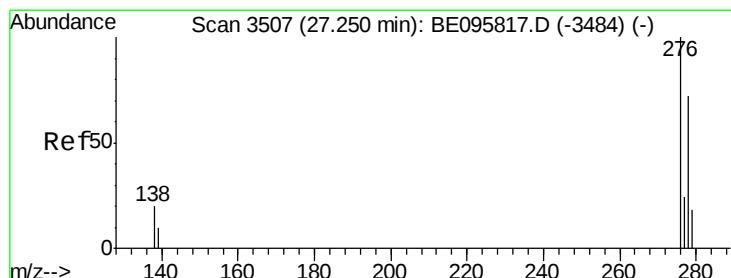
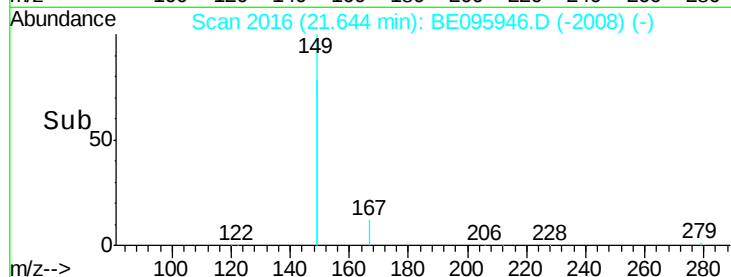
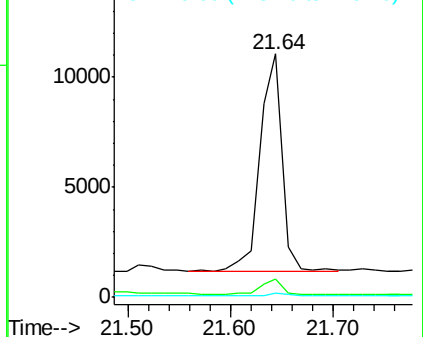
149 100

167 6.2 5.4 8.0

279 0.8 0.7 1.1



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: 0.038 ng

RT: 27.22 min Scan# 3498

Delta R.T. -0.03 min

Lab File: BE095946.D

Acq: 4 Apr 2018 14:26

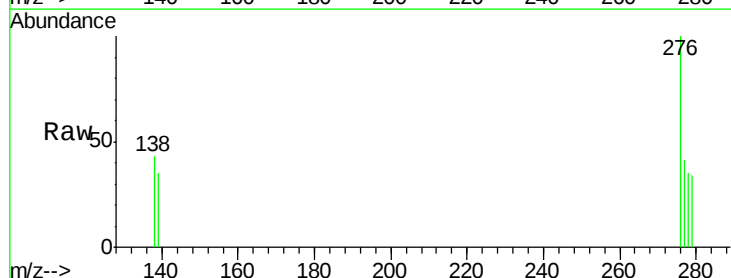
Tgt Ion:276 Resp: 440

Ion Ratio Lower Upper

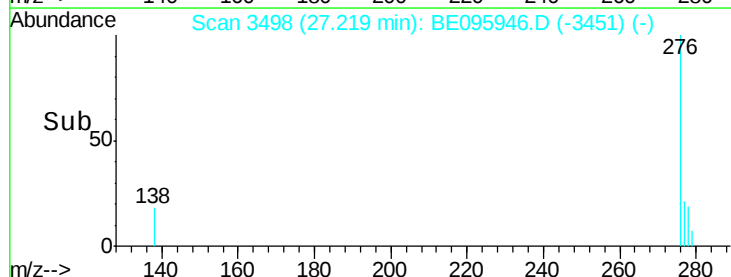
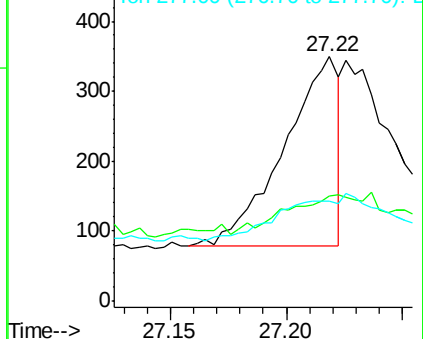
276 100

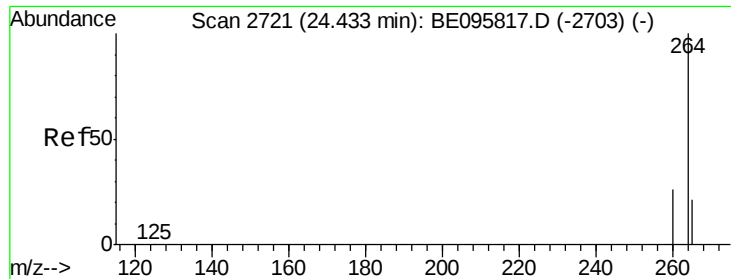
138 33.9 22.5 33.7#

277 51.8 19.9 29.9#



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

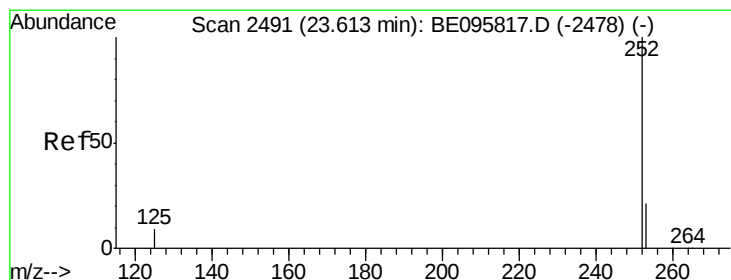
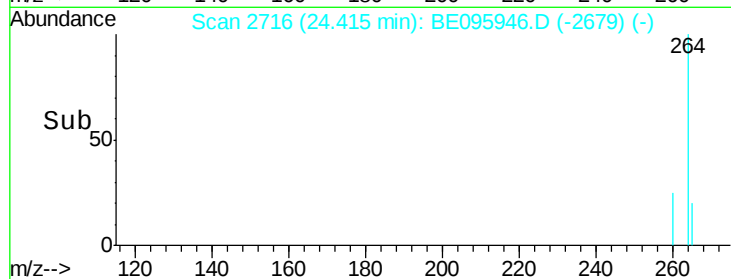
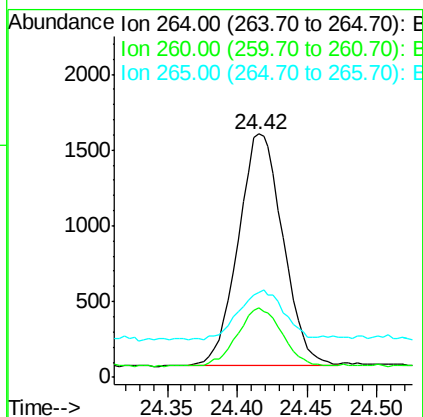
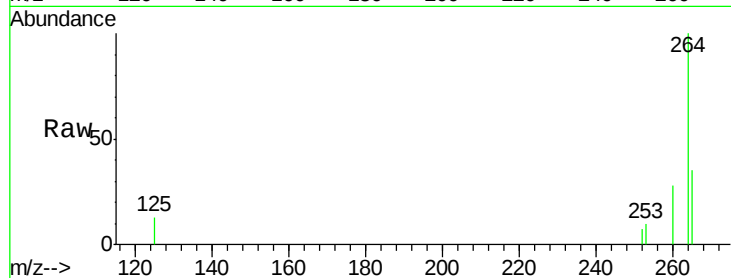




#34
Pervlene-d12
Concen: 0.400 ng
RT: 24.42 min Scan# 2716
Delta R.T. -0.02 min
Lab File: BE095946.D
Acq: 4 Apr 2018 14:26

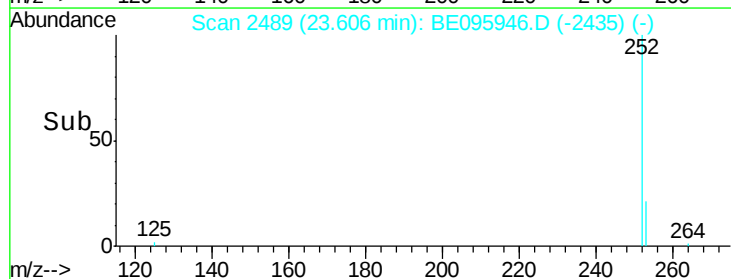
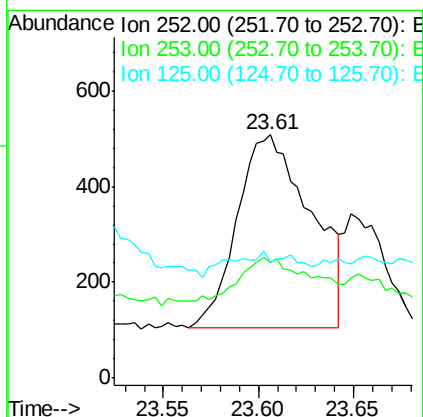
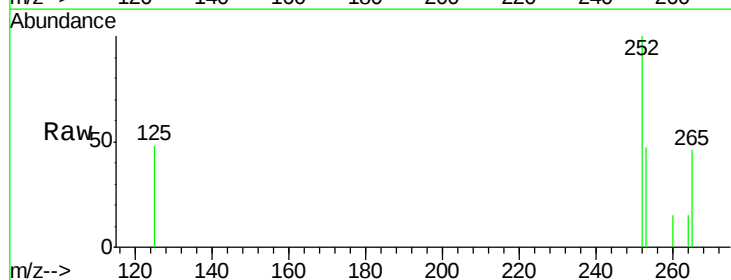
Instrument :
BNA_E
ClientSampleId :

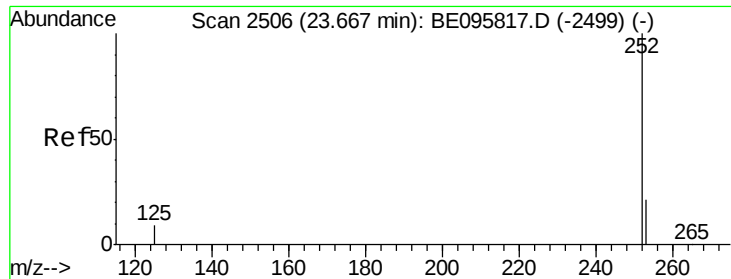
Tot Ion:264 Resp: 3422
Ion Ratio Lower Upper
264 100
260 28.3 20.5 30.7
265 35.1 22.8 34.2#



#35
Benzo(b)fluoranthene
Concen: 0.096 ng
RT: 23.61 min Scan# 2489
Delta R.T. -0.01 min
Lab File: BE095946.D
Acq: 4 Apr 2018 14:26

Tgt Ion:252 Resp: 1084
Ion Ratio Lower Upper
252 100
253 47.4 20.0 30.0#
125 47.6 16.0 24.0#





#36

Benzo(k)fluoranthene

Concen: 0.096 ng

RT: 23.61 min Scan# 2489

Delta R.T. -0.06 min

Lab File: BE095946.D

Acq: 4 Apr 2018 14:26

Instrument :

BNA_E

ClientSampleId :

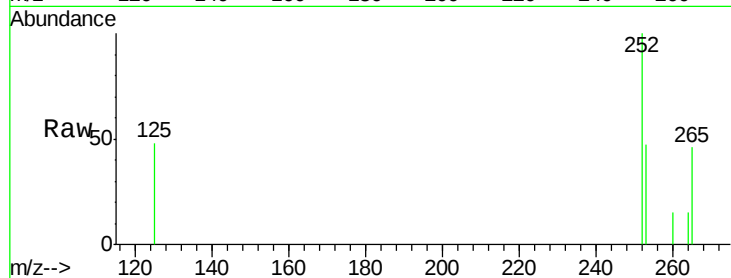
Tot Ion:252 Resp: 1084

Ion Ratio Lower Upper

252 100

253 47.4 16.0 24.0#

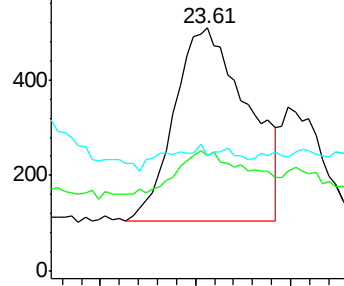
125 47.6 8.0 12.0#



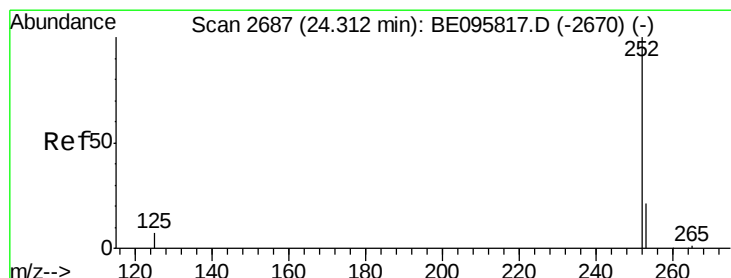
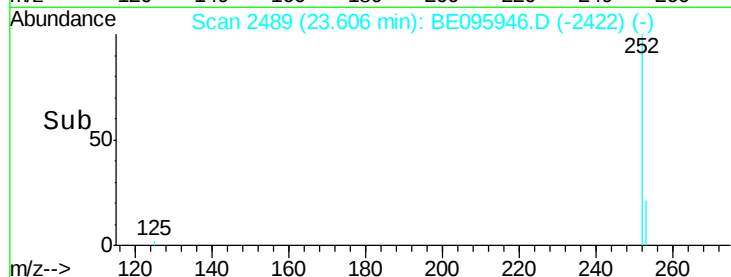
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->



#37

Benzo(a)pyrene

Concen: 0.070 ng

RT: 24.30 min Scan# 2684

Delta R.T. -0.01 min

Lab File: BE095946.D

Acq: 4 Apr 2018 14:26

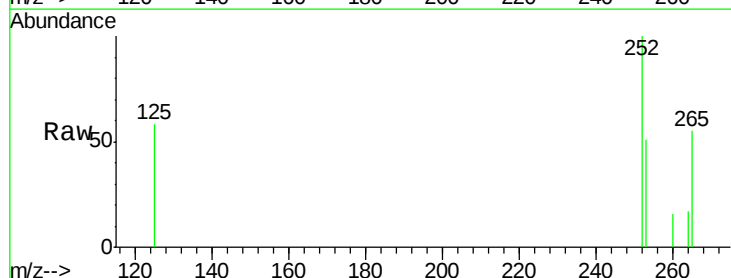
Tgt Ion:252 Resp: 744

Ion Ratio Lower Upper

252 100

253 50.7 16.0 24.0#

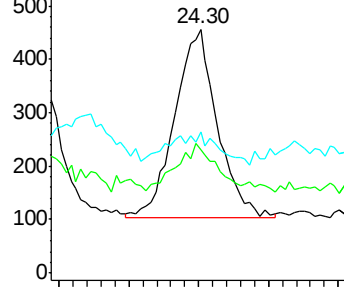
125 57.9 12.0 18.0#



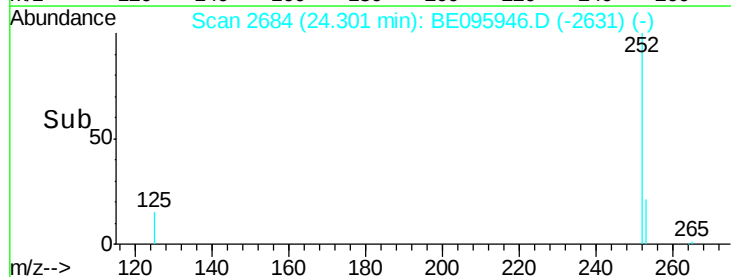
Abundance Ion 252.00 (251.70 to 252.70): E

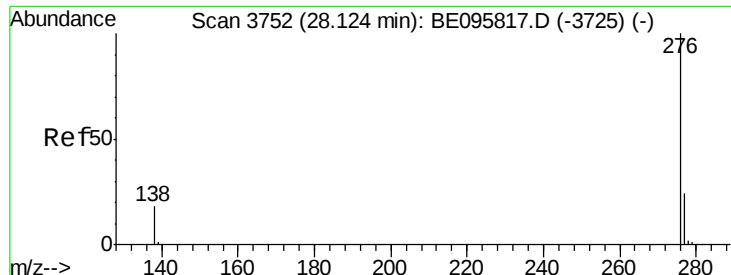
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->





#39

Benzo(a,h,i)perylene

Concen: 0.118 ng

RT: 28.10 min Scan# 3745

Delta R.T. -0.02 min

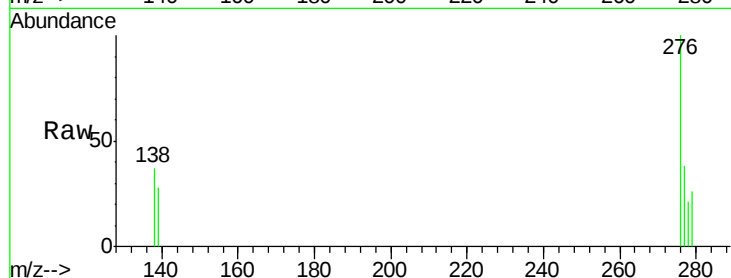
Lab File: BE095946.D

Acq: 4 Apr 2018 14:26

Instrument :

BNA_E

ClientSampleId :



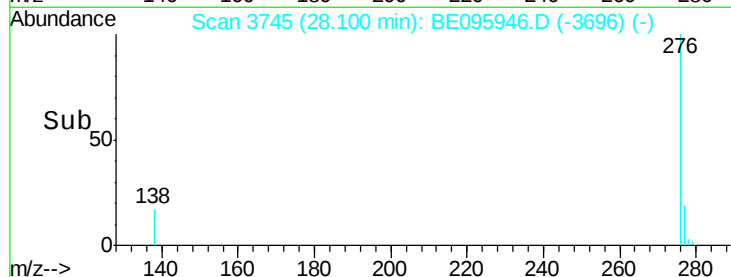
Tot Ion: 276 Resp: 1192

Ion Ratio Lower Upper

276 100

277 38.0 16.0 24.0#

138 37.0 20.0 30.0#



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

