

Data Path : Z:\HPCHEM1\BNA E\DATA\BE030618\
 Data File : BE095708.D
 Acq On : 6 Mar 2018 21:34
 Operator : SJ/JU
 Sample : J1811-04 20X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 07 01:12:23 2018
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE022318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 23 12:12:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	1431	0.40	ng	0.00
7) Naphthalene-d8	11.27	136	5652	0.40	ng	0.00
13) Acenaphthene-d10	15.00	164	3324	0.40	ng	0.00
19) Phenanthrene-d10	17.71	188	7601	0.40	ng	0.00
27) Chrysene-d12	21.80	240	7685	0.40	ng	0.01
34) Perylene-d12	24.43	264	7177	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.92	112	40	0.01	ng	0.00
5) Phenol-d6	7.56	99	51	0.01	ng	0.00
8) Nitrobenzene-d5	9.61	82	83	0.01	ng	0.00
11) 2-Methylnaphthalene-d10	12.72	152	5	0.00	ng	-0.09
14) 2,4,6-Tribromophenol	16.47	330	12	0.12	ng	0.00
15) 2-Fluorobiphenyl	13.64	172	155	0.01	ng	0.00
25) Fluoranthene-d10	19.68	212	694	0.01	ng	0.00
29) Terphenyl-d14	20.24	244	130	0.01	ng	0.00

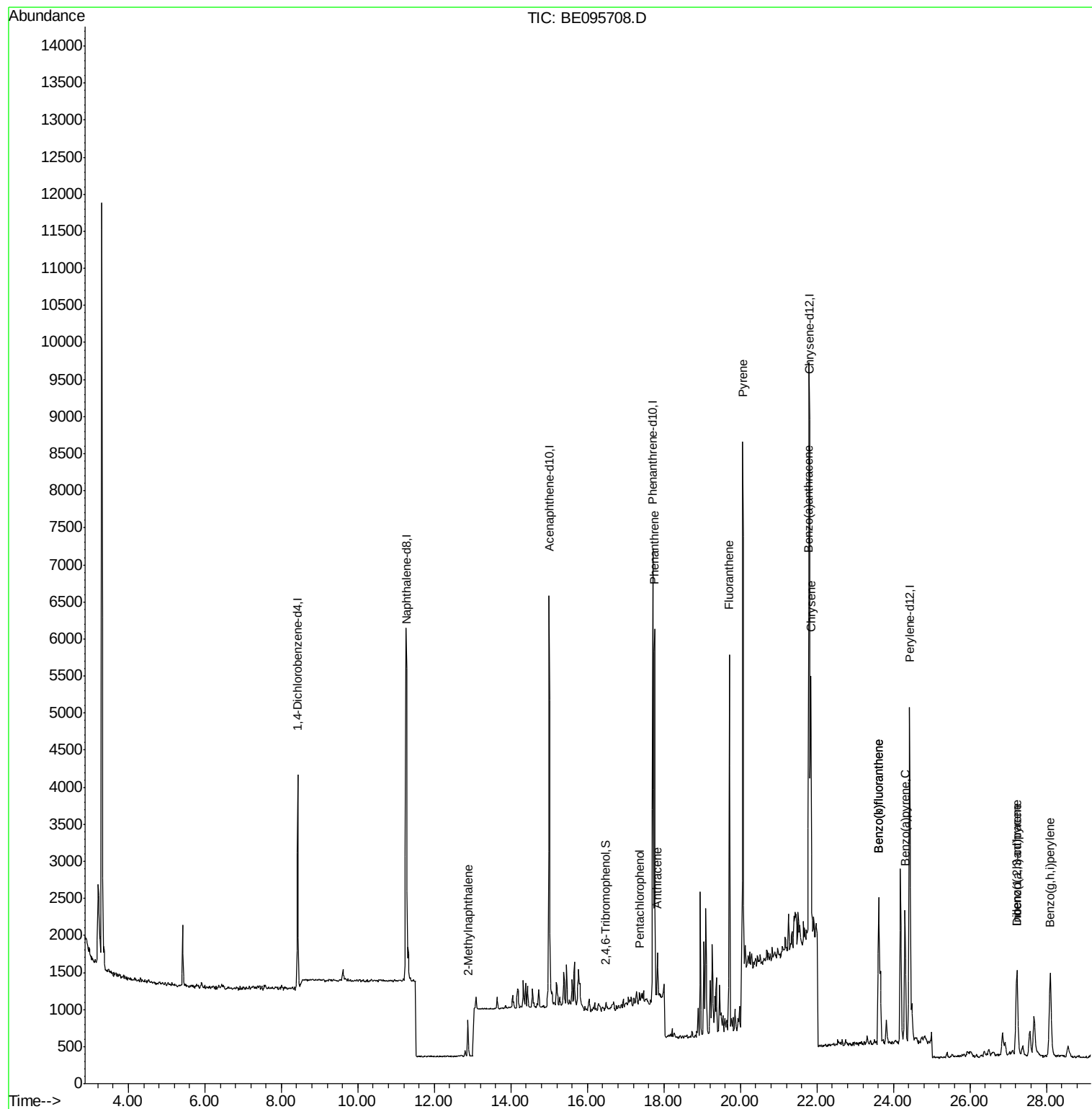
Target Compounds				Qvalue		
12) 2-Methylnaphthalene	12.87	142	353	0.031	ng	# 92
22) Pentachlorophenol	17.36	266	2	0.180	ng	93
23) Phenanthrene	17.75	178	5790	0.244	ng	98
24) Anthracene	17.84	178	683	0.031	ng	94
26) Fluoranthene	19.72	202	4739	0.162	ng	96
28) Pyrene	20.06	202	10203	0.325	ng	98
30) Benzo(a)anthracene	21.78	228	3214	0.128	ng	96
31) Chrysene	21.84	228	3637	0.146	ng	# 93
33) Indeno(1,2,3-cd)pyrene	27.22	276	2053	0.085	ng	# 82
35) Benzo(b)fluoranthene	23.61	252	3853	0.151	ng	# 92
36) Benzo(k)fluoranthene	23.61	252	3853	0.152	ng	# 83
37) Benzo(a)pyrene	24.31	252	3048	0.132	ng	# 90
38) Dibenzo(a,h)anthracene	27.24	278	1096	0.053	ng	# 68
39) Benzo(g,h,i)perylene	28.10	276	2929	0.133	ng	# 88

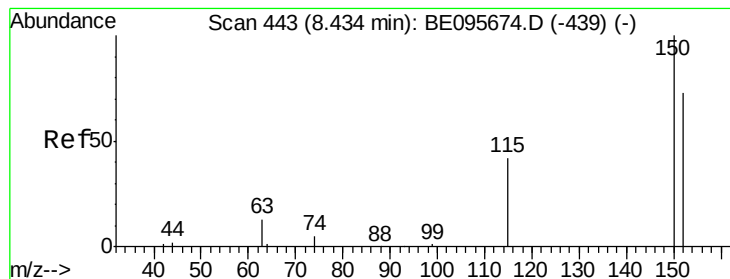
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 8.43 min Scan# 569

Delta R.T. -0.01 min

Lab File: BE095708.D

Acq: 6 Mar 2018 21:34

Instrument :

BNA_E

ClientSampleId :

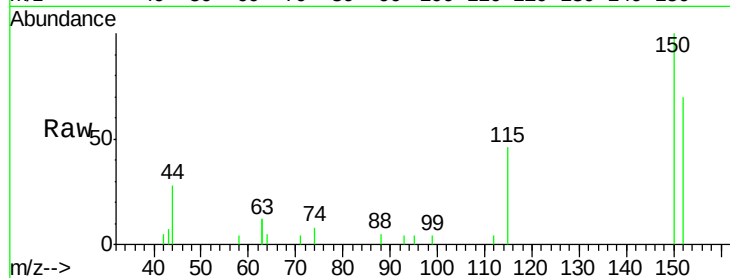
Tot Ion:152 Resp: 1431

Ion Ratio Lower Upper

152 100

150 143.1 117.2 175.8

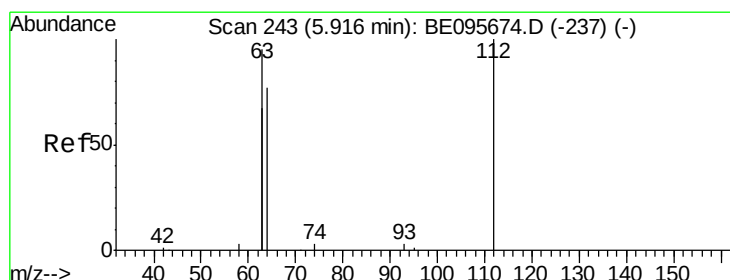
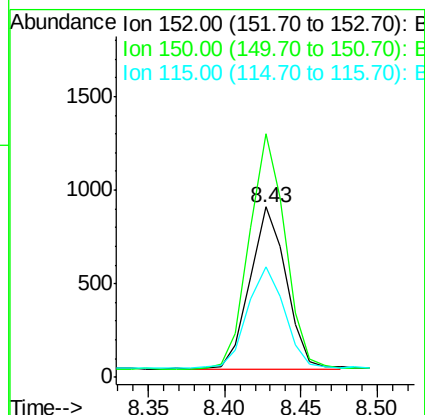
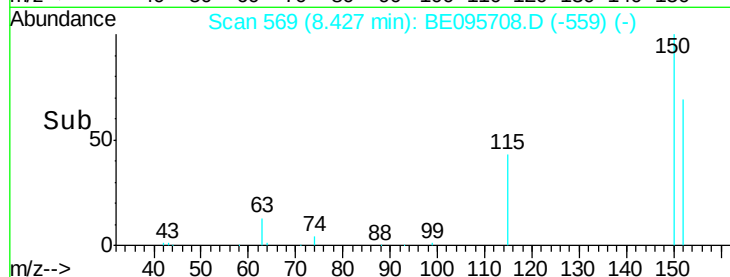
115 65.1 57.0 85.6



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



#4

2-Fluorophenol

Concen: 0.011 ng

RT: 5.92 min Scan# 313

Delta R.T. 0.01 min

Lab File: BE095708.D

Acq: 6 Mar 2018 21:34

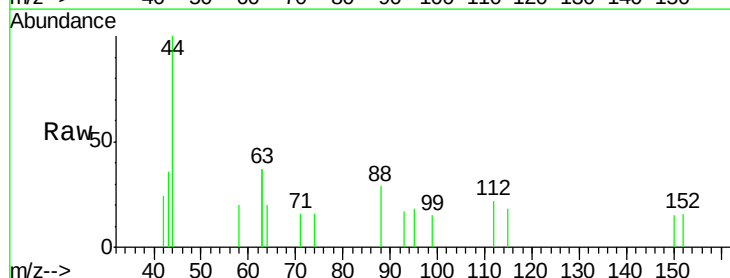
Tgt Ion:112 Resp: 40

Ion Ratio Lower Upper

112 100

64 95.0 60.1 90.1#

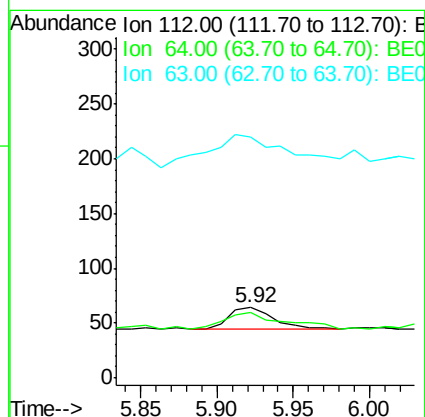
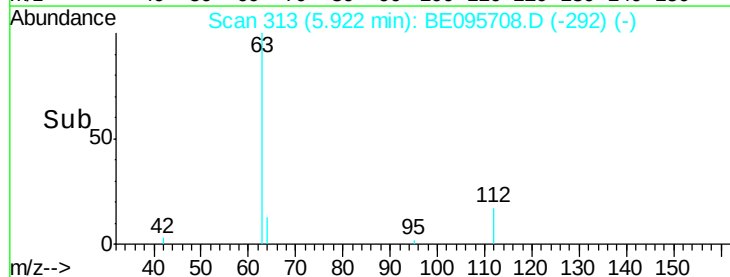
63 280.0 116.8 175.2#

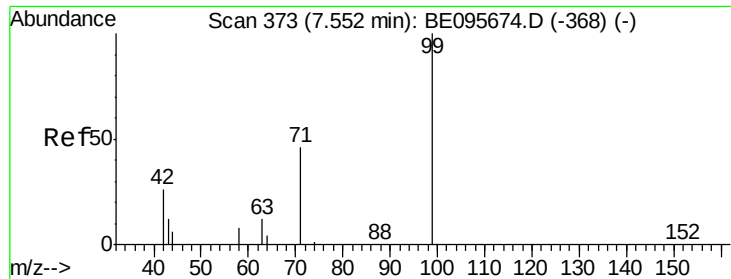


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.010 ng

RT: 7.56 min Scan# 480

Delta R.T. 0.00 min

Lab File: BE095708.D

Acq: 6 Mar 2018 21:34

Instrument :

BNA_E

ClientSampleId :

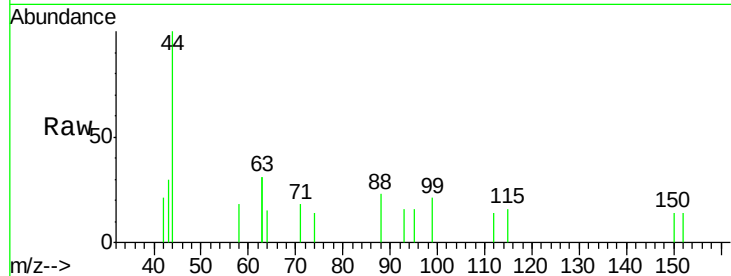
Tot Ion: 99 Resp: 51

Ion Ratio Lower Upper

99 100

42 60.8 20.2 30.2#

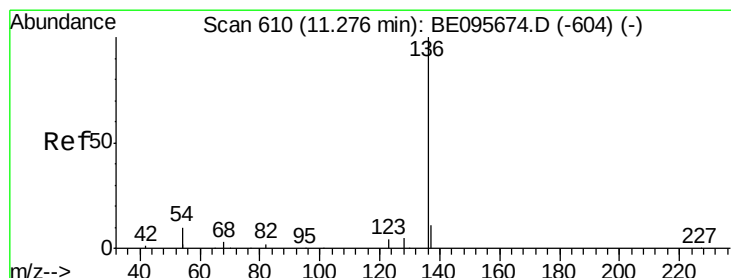
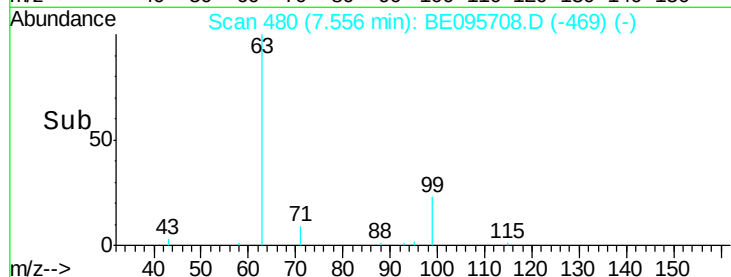
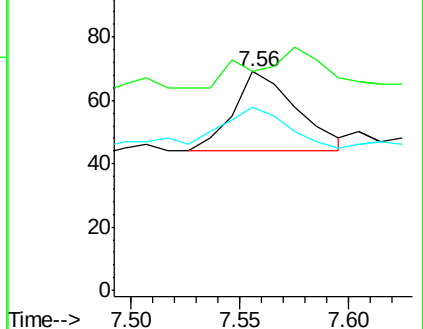
71 54.9 28.4 42.6#



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: 11.27 min Scan# 785

Delta R.T. -0.01 min

Lab File: BE095708.D

Acq: 6 Mar 2018 21:34

Tgt Ion: 136 Resp: 5652

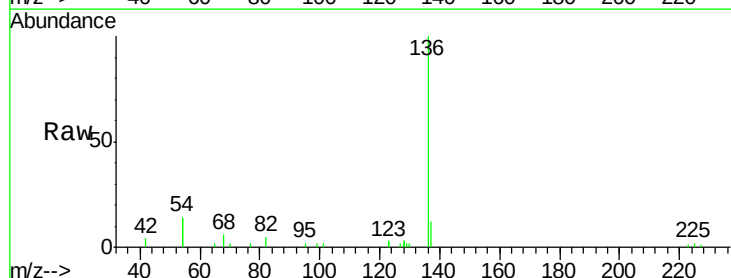
Ion Ratio Lower Upper

136 100

137 12.4 9.5 14.3

54 28.3 29.1 43.7#

68 6.0 6.2 9.2#

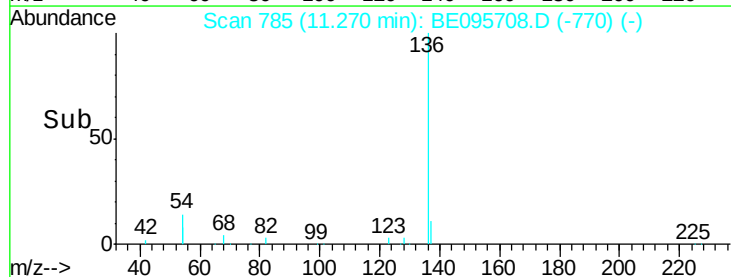
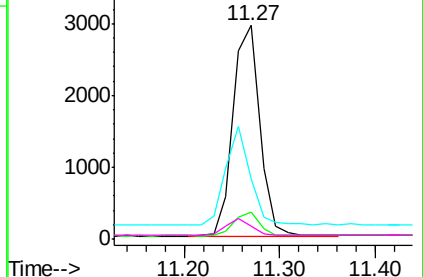


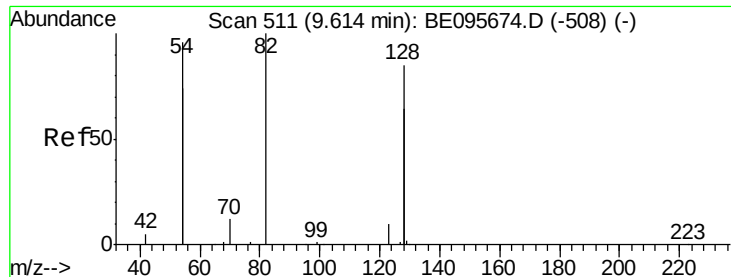
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.014 ng

RT: 9.61 min Scan# 657

Delta R.T. -0.01 min

Lab File: BE095708.D

Acq: 6 Mar 2018 21:34

Instrument :

BNA_E

ClientSampleId :

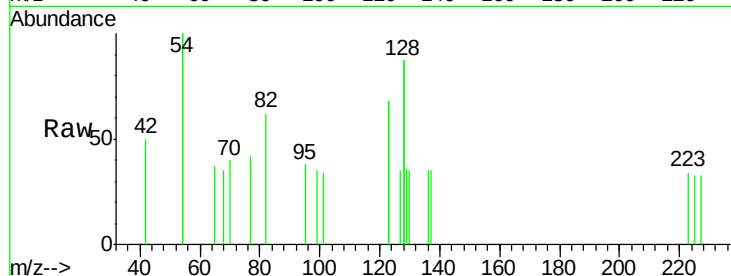
Tot Ion: 82 Resp: 83

Ion Ratio Lower Upper

82 100

128 282.9 150.0 225.0#

54 324.4 154.2 231.4#

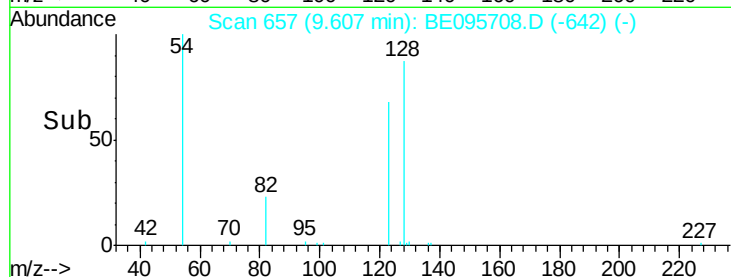


Abundance Ion 82.00 (81.70 to 82.70): BE095674.D (-508) (-)

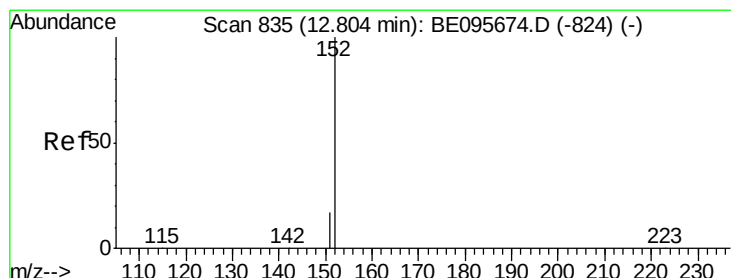
Ion 128.00 (127.70 to 128.70): BE095674.D (-508) (-)

Ion 54.00 (53.70 to 54.70): BE095674.D (-508) (-)

Time-->



Time-->



#11

2-Methylnaphthalene-d10

Concen: 0.001 ng

RT: 12.72 min Scan# 1055

Delta R.T. -0.09 min

Lab File: BE095708.D

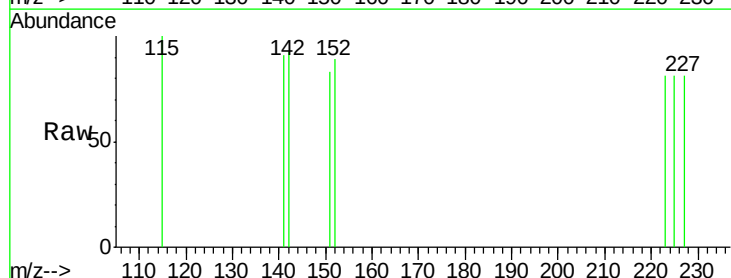
Acq: 6 Mar 2018 21:34

Tgt Ion: 152 Resp: 5

Ion Ratio Lower Upper

152 100

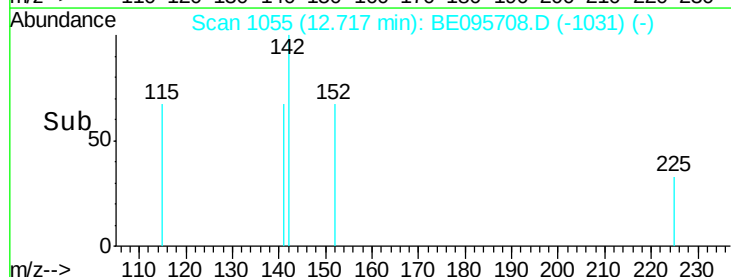
151 20.0 15.4 23.0



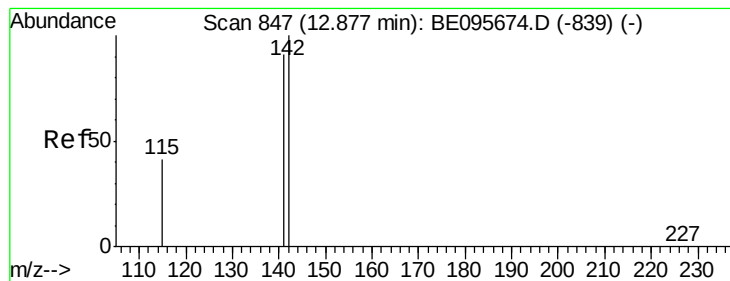
Abundance Ion 152.00 (151.70 to 152.70): BE095674.D (-824) (-)

Ion 151.00 (150.70 to 151.70): BE095674.D (-824) (-)

Time-->



Time-->



#12

2-Methylnaphthalene

Concen: 0.031 ng

RT: 12.87 min Scan# 1088

Delta R.T. -0.00 min

Lab File: BE095708.D

Acq: 6 Mar 2018 21:34

Instrument :

BNA_E

ClientSampleId :

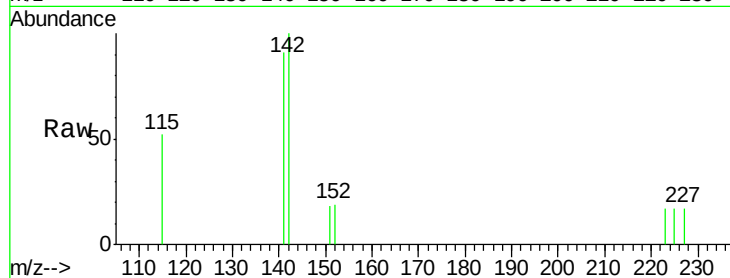
Tot Ion:142 Resp: 353

Ion Ratio Lower Upper

142 100

141 91.1 70.4 105.6

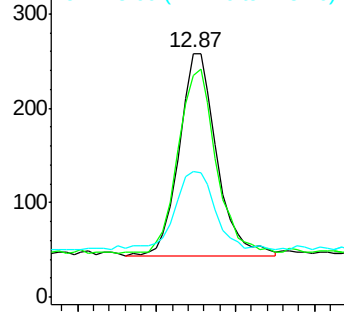
115 51.6 31.7 47.5#



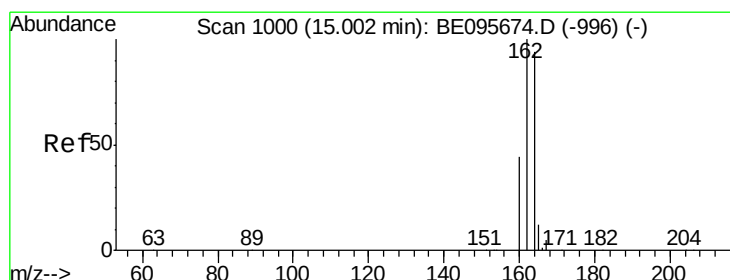
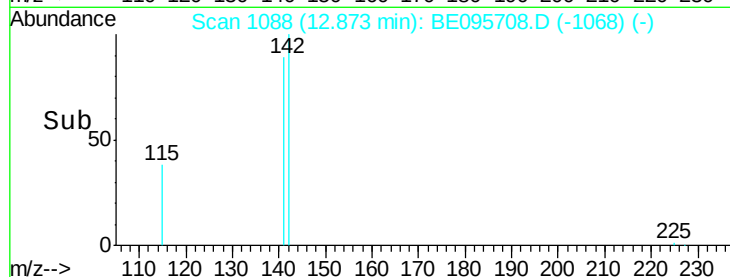
Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



Time-->



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 15.00 min Scan# 1285

Delta R.T. -0.00 min

Lab File: BE095708.D

Acq: 6 Mar 2018 21:34

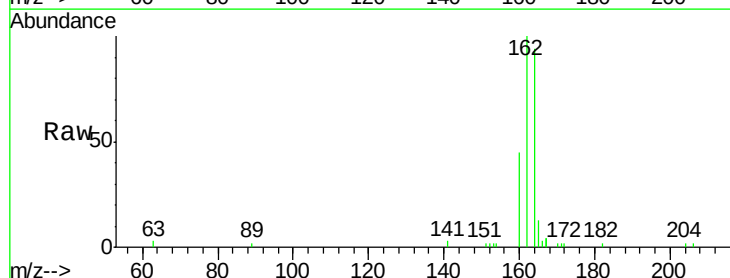
Tgt Ion:164 Resp: 3324

Ion Ratio Lower Upper

164 100

162 106.3 83.1 124.7

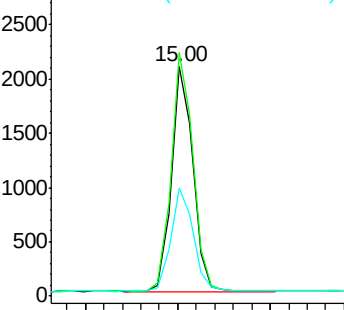
160 47.3 37.1 55.7



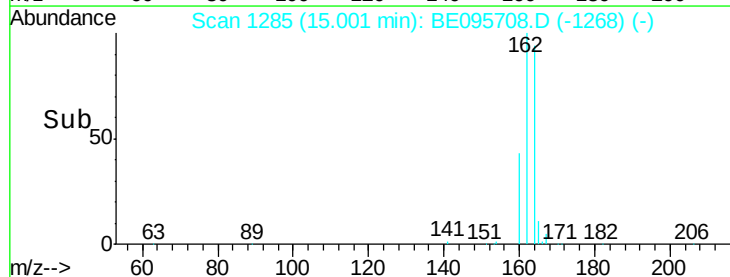
Abundance Ion 164.00 (163.70 to 164.70): E

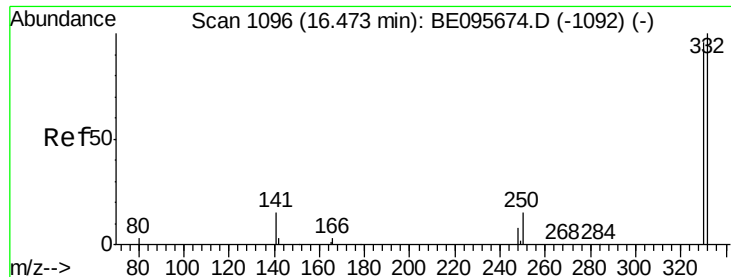
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



Time-->

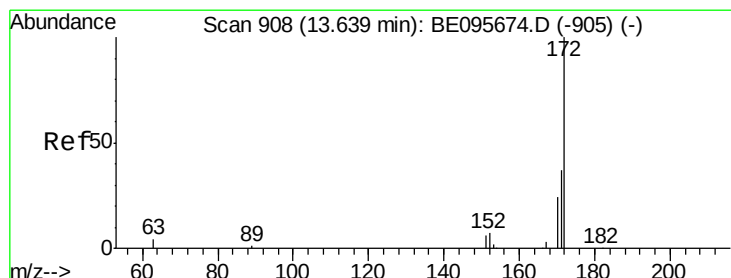
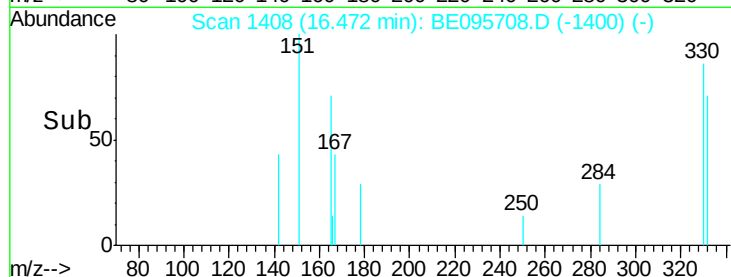
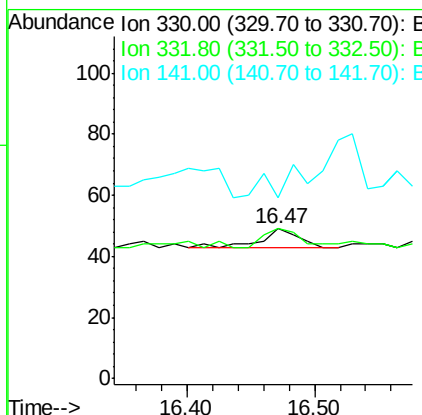
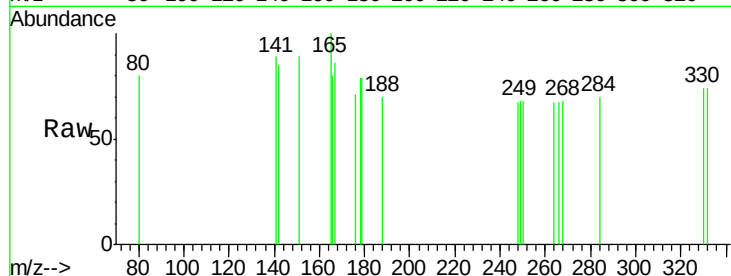




#14
2,4,6-Tribromophenol
Concen: 0.123 ng
RT: 16.47 min Scan# 1408
Delta R.T. -0.00 min
Lab File: BE095708.D
Acq: 6 Mar 2018 21:34

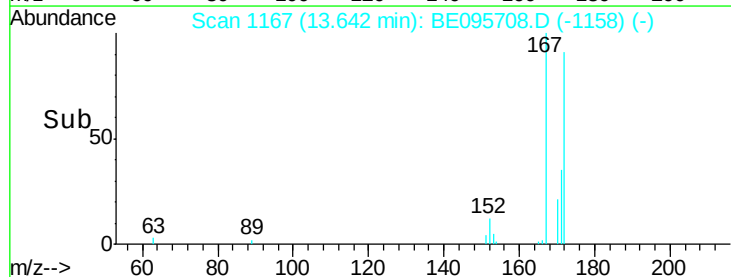
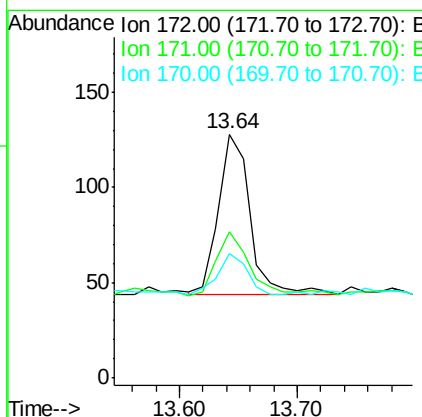
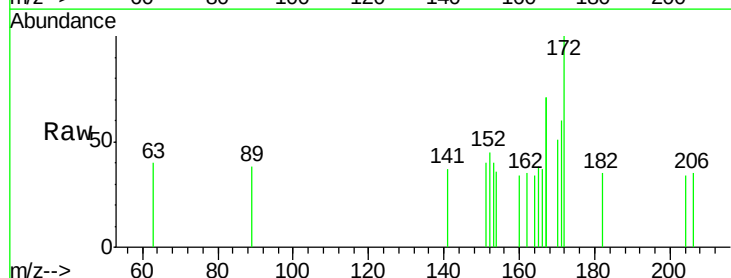
Instrument :
BNA_E
ClientSampleId :

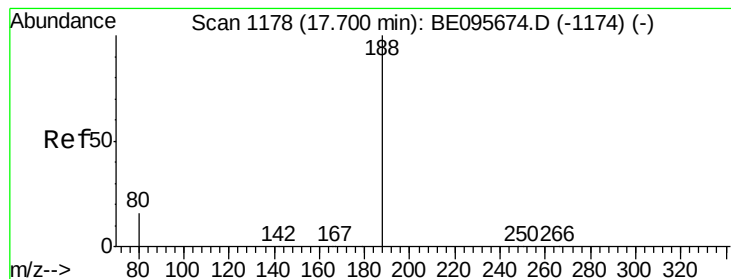
Tot Ion:330 Resp: 12
Ion Ratio Lower Upper
330 100
332 100.0 152.7 229.1#
141 0.0 33.7 50.5#



#15
2-Fluorobiphenyl
Concen: 0.010 ng
RT: 13.64 min Scan# 1167
Delta R.T. 0.00 min
Lab File: BE095708.D
Acq: 6 Mar 2018 21:34

Tgt Ion:172 Resp: 155
Ion Ratio Lower Upper
172 100
171 60.2 29.9 44.9#
170 50.8 21.8 32.8#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.71 min Scan# 1514

Delta R.T. 0.01 min

Lab File: BE095708.D

Acq: 6 Mar 2018 21:34

Instrument :

BNA_E

ClientSampleId :

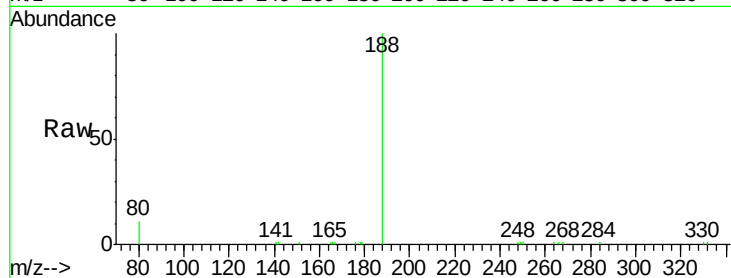
Tot Ion:188 Resp: 7601

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

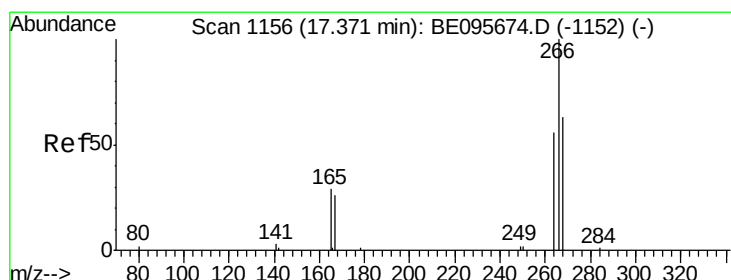
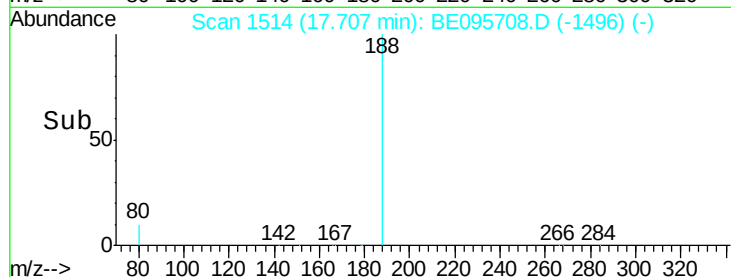
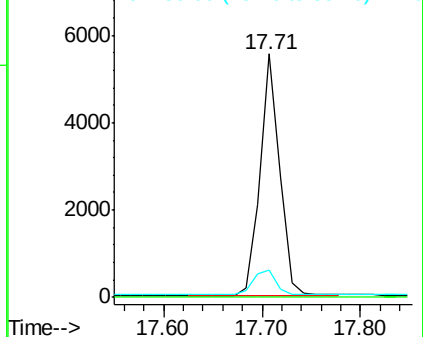
80 11.2 3.6 5.4#



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: 0.180 ng

RT: 17.36 min Scan# 1484

Delta R.T. -0.01 min

Lab File: BE095708.D

Acq: 6 Mar 2018 21:34

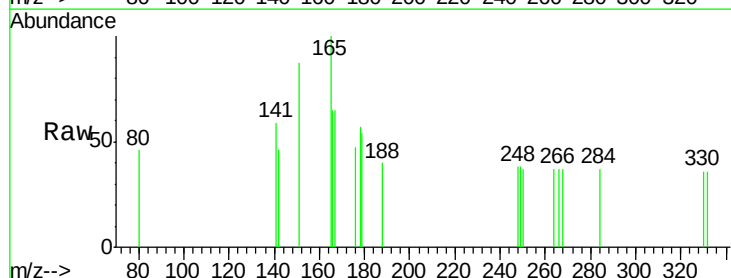
Tgt Ion:266 Resp: 2

Ion Ratio Lower Upper

266 100

264 97.8 72.5 108.7

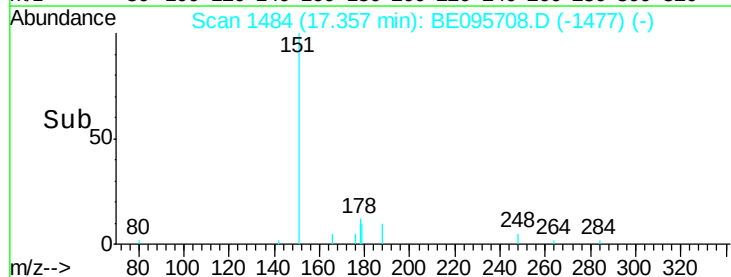
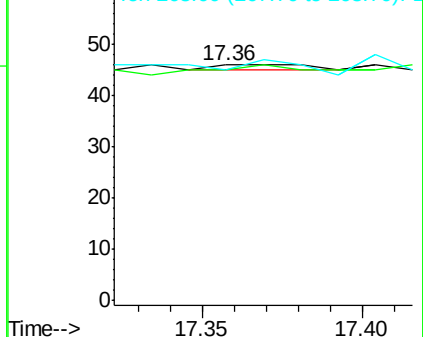
268 97.8 73.8 110.6

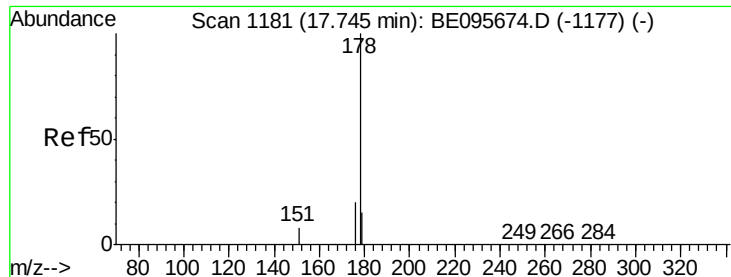


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.244 ng

RT: 17.75 min Scan# 1518

Delta R.T. 0.01 min

Lab File: BE095708.D

Acq: 6 Mar 2018 21:34

Instrument :

BNA_E

ClientSampled :

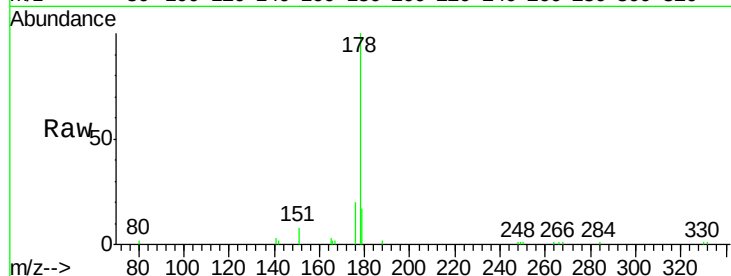
Tot Ion:178 Resp: 5790

Ion Ratio Lower Upper

178 100

176 19.7 15.1 22.7

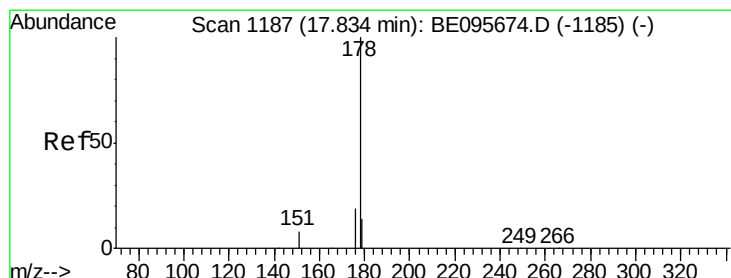
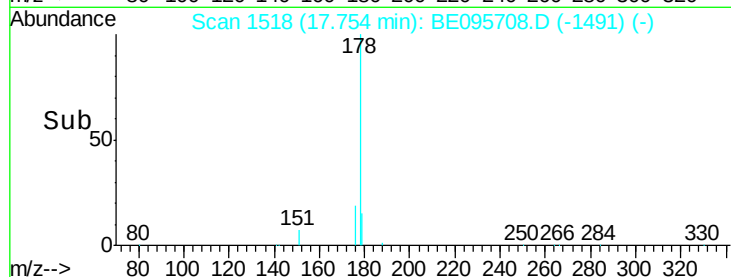
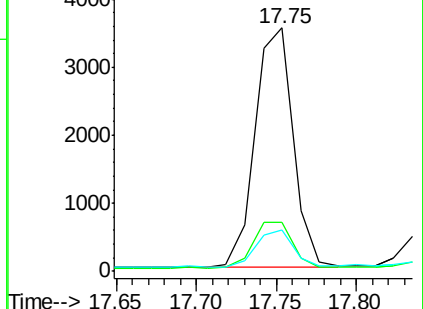
179 15.7 11.8 17.6



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: 0.031 ng

RT: 17.84 min Scan# 1525

Delta R.T. 0.00 min

Lab File: BE095708.D

Acq: 6 Mar 2018 21:34

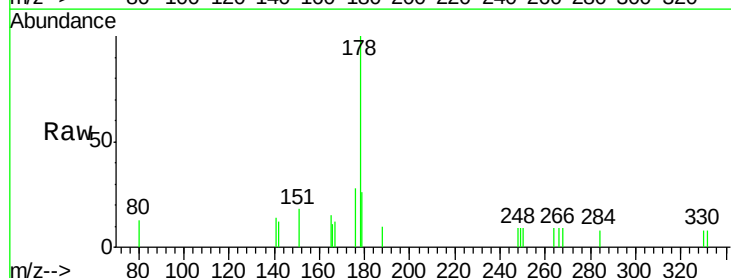
Tgt Ion:178 Resp: 683

Ion Ratio Lower Upper

178 100

176 19.2 12.8 19.2

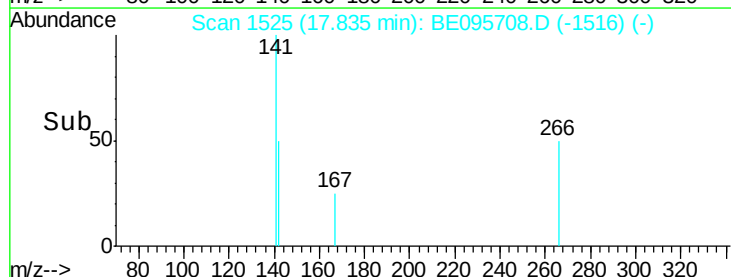
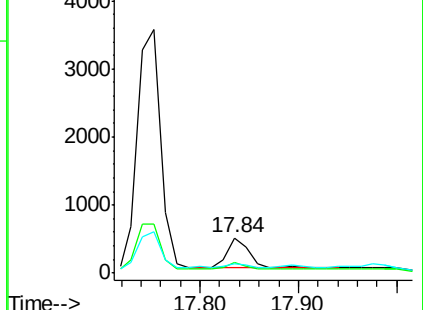
179 14.1 13.0 19.6

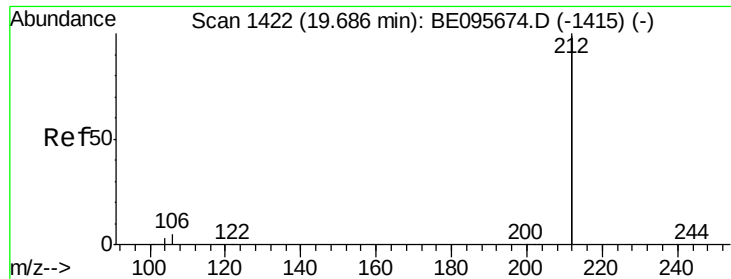


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.007 ng

RT: 19.68 min Scan# 1827

Delta R.T. -0.00 min

Lab File: BE095708.D

Acq: 6 Mar 2018 21:34

Instrument :

BNA_E

ClientSampleId :

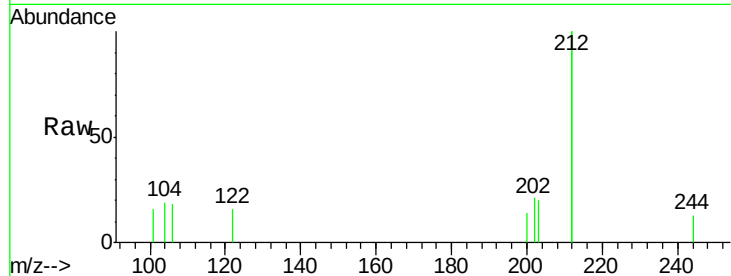
Tot Ion:212 Resp: 694

Ion Ratio Lower Upper

212 100

106 3.7 2.8 4.2

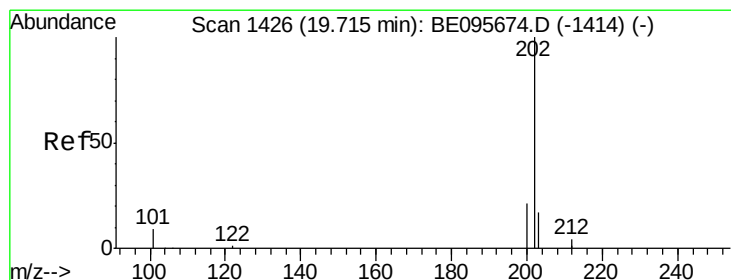
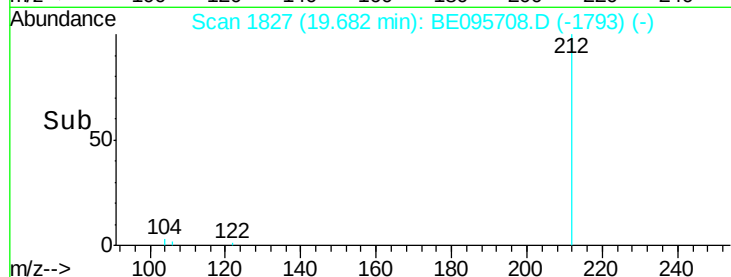
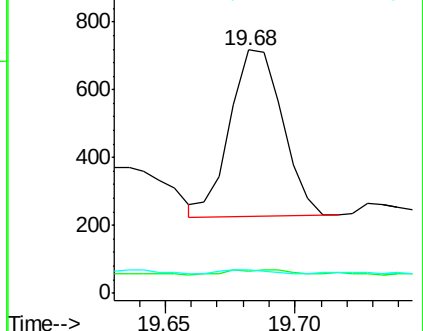
104 2.6 1.6 2.4#



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



#26

Fluoranthene

Concen: 0.162 ng

RT: 19.72 min Scan# 1833

Delta R.T. 0.00 min

Lab File: BE095708.D

Acq: 6 Mar 2018 21:34

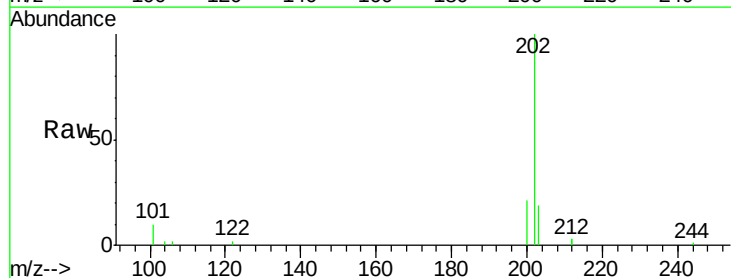
Tgt Ion:202 Resp: 4739

Ion Ratio Lower Upper

202 100

101 10.0 9.8 14.8

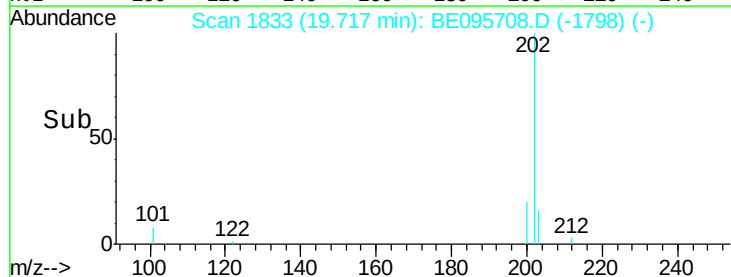
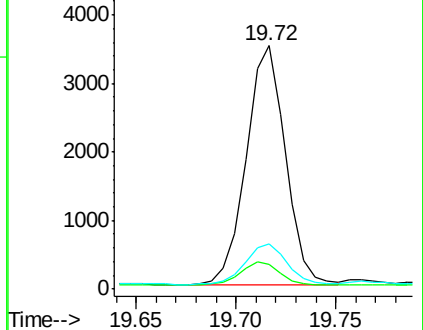
203 18.4 13.7 20.5

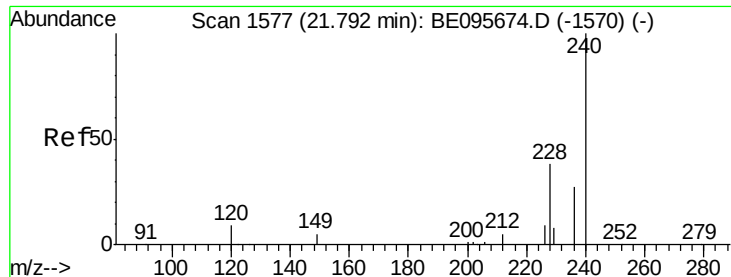


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

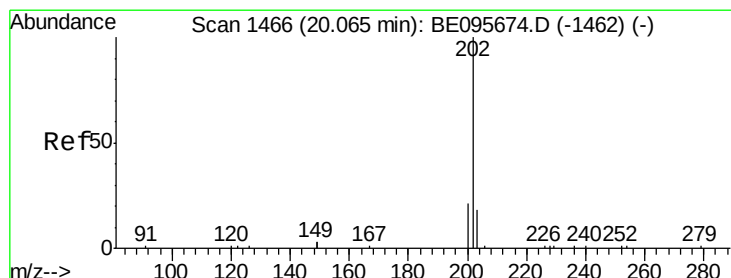
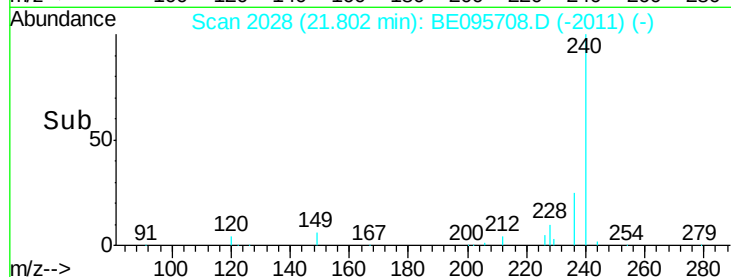
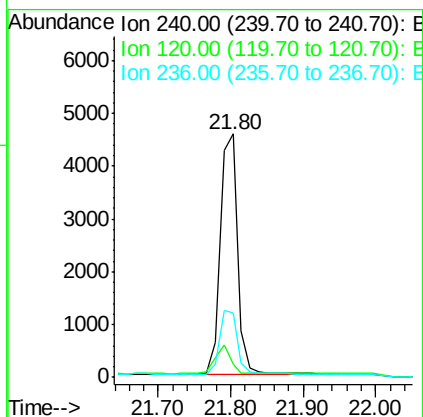
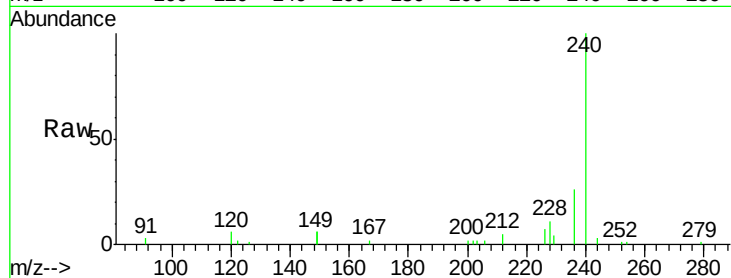




#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.80 min Scan# 2028
 Delta R.T. 0.01 min
 Lab File: BE095708.D
 Acq: 6 Mar 2018 21:34

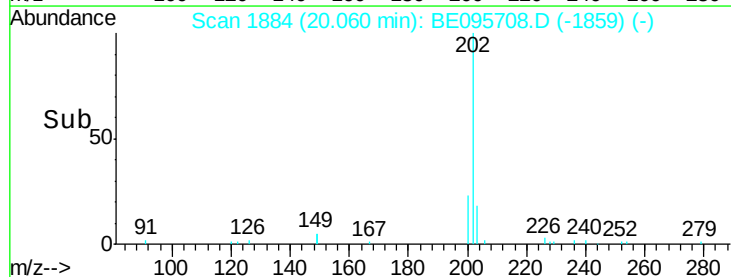
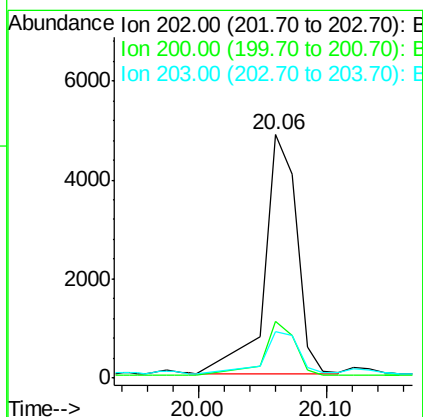
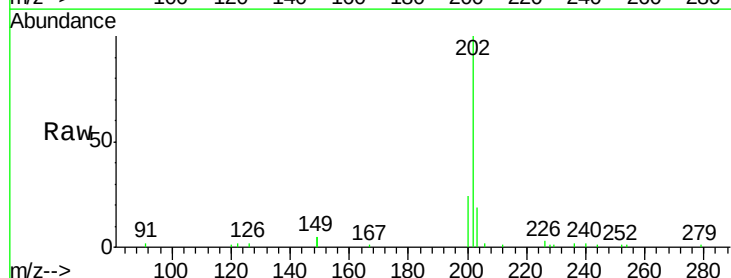
Instrument :
 BNA_E
 ClientSampleId :

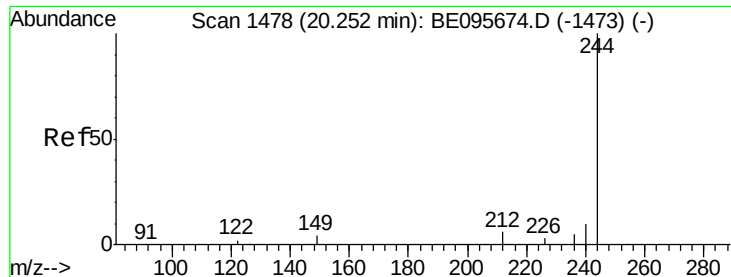
Tot Ion:240 Resp: 7685
 Ion Ratio Lower Upper
 240 100
 120 5.6 5.5 8.3
 236 26.3 20.7 31.1



#28
 Pyrene
 Concen: 0.325 ng
 RT: 20.06 min Scan# 1884
 Delta R.T. -0.00 min
 Lab File: BE095708.D
 Acq: 6 Mar 2018 21:34

Tgt Ion:202 Resp: 10203
 Ion Ratio Lower Upper
 202 100
 200 21.4 16.6 25.0
 203 18.7 13.8 20.8





#29

Terphenyl-d14

Concen: 0.008 ng

RT: 20.24 min Scan# 1899

Delta R.T. -0.01 min

Lab File: BE095708.D

Acq: 6 Mar 2018 21:34

Instrument :

BNA_E

ClientSampleId :

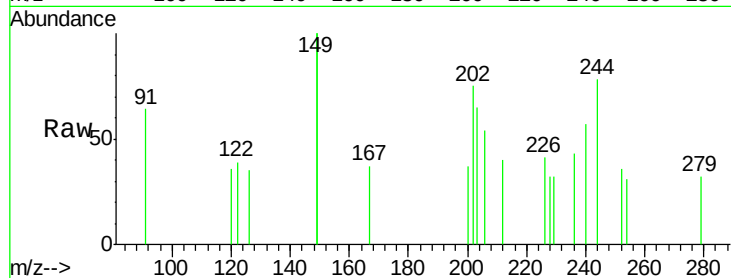
Tot Ion:244 Resp: 130

Ion Ratio Lower Upper

244 100

212 51.9 25.4 38.0#

122 50.4 8.1 12.1#

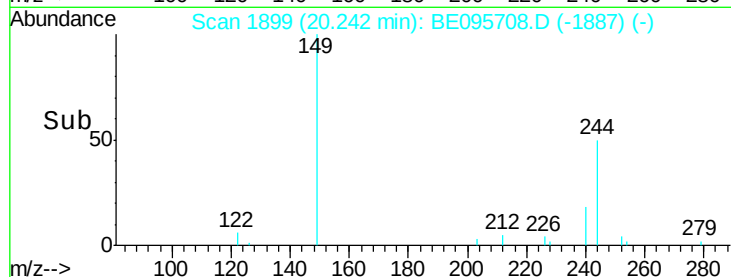


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

Time--> 20.15 20.20 20.25 20.30



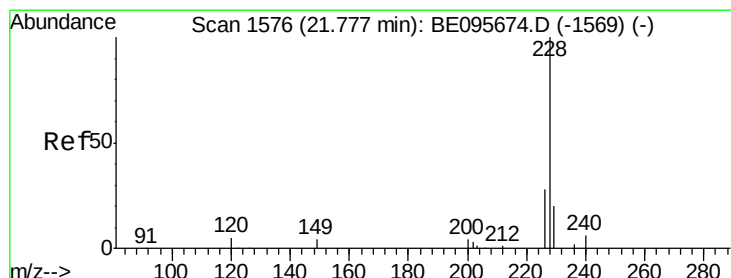
Abundance

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

Time--> 20.15 20.20 20.25 20.30



#30

Benzo(a)anthracene

Concen: 0.128 ng

RT: 21.78 min Scan# 2026

Delta R.T. 0.00 min

Lab File: BE095708.D

Acq: 6 Mar 2018 21:34

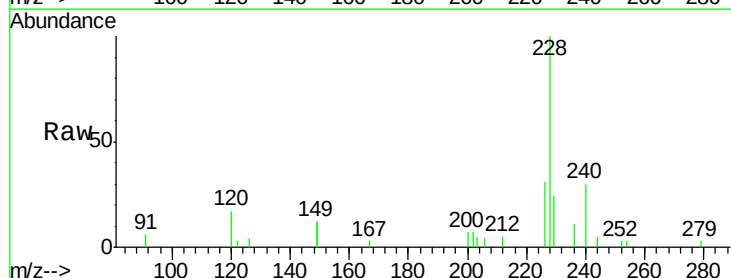
Tgt Ion:228 Resp: 3214

Ion Ratio Lower Upper

228 100

226 31.1 24.0 36.0

229 23.7 16.0 24.0

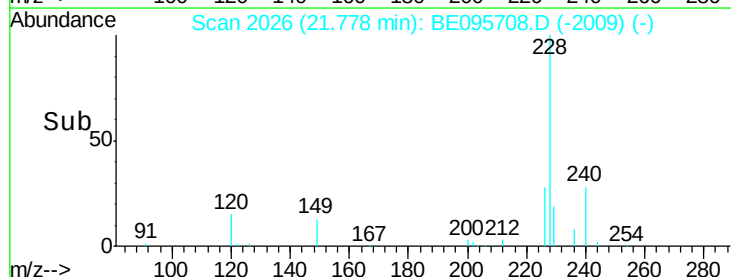


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

Time--> 21.65 21.70 21.75 21.80



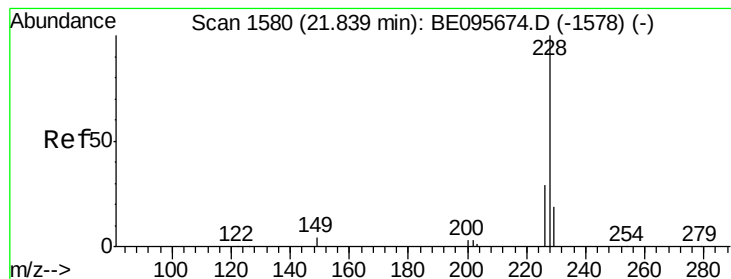
Abundance

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

Time--> 21.65 21.70 21.75 21.80



#31

Chrysene

Concen: 0.146 ng

RT: 21.84 min Scan# 2031

Delta R.T. -0.00 min

Lab File: BE095708.D

Acq: 6 Mar 2018 21:34

Instrument :

BNA_E

ClientSampleId :

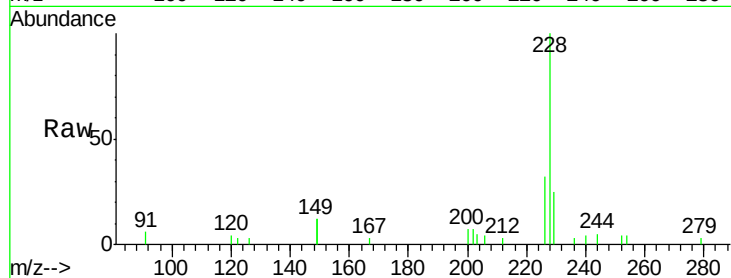
Tot Ion:228 Resp: 3637

Ion Ratio Lower Upper

228 100

226 32.2 24.0 36.0

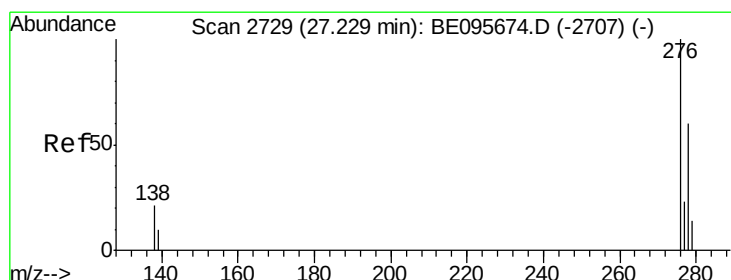
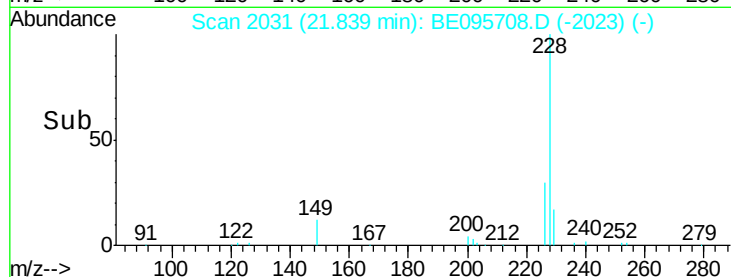
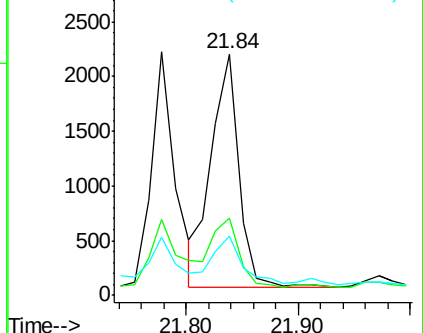
229 24.8 16.0 24.0#



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



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.085 ng

RT: 27.22 min Scan# 3498

Delta R.T. -0.01 min

Lab File: BE095708.D

Acq: 6 Mar 2018 21:34

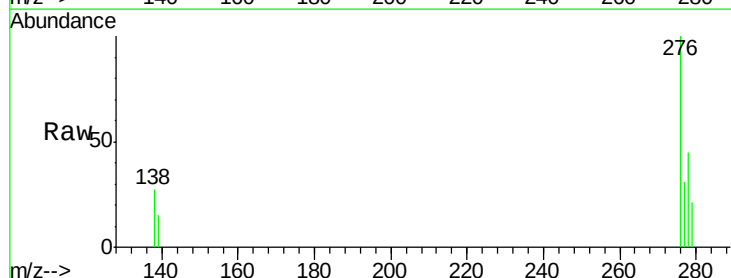
Tgt Ion:276 Resp: 2053

Ion Ratio Lower Upper

276 100

138 9.8 22.5 33.7#

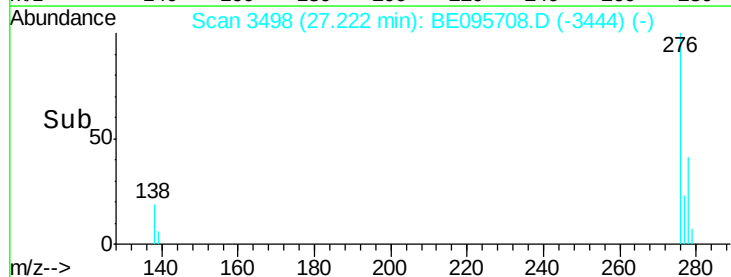
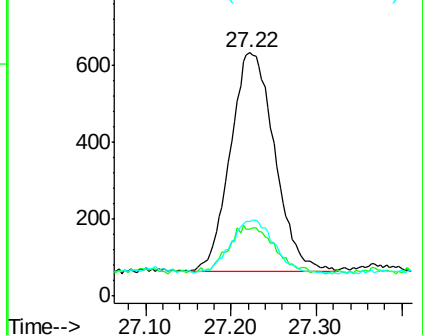
277 24.9 19.9 29.9

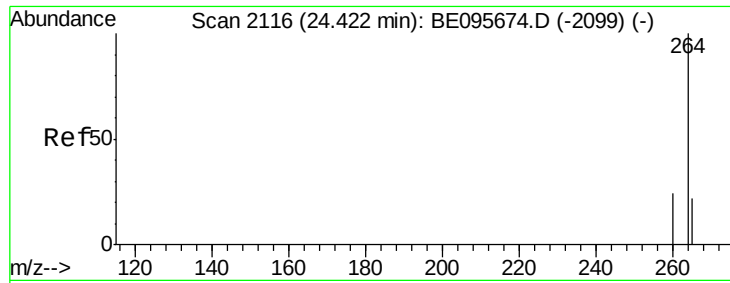


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

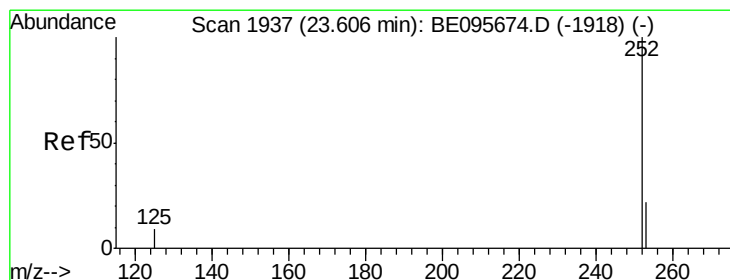
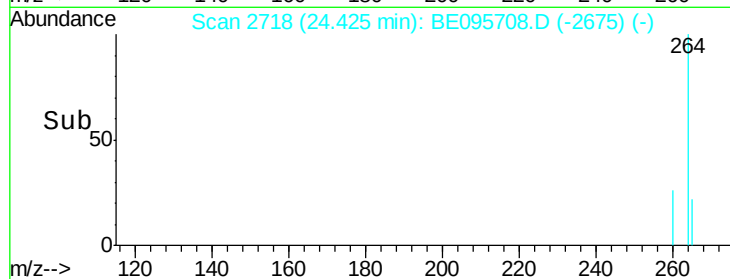
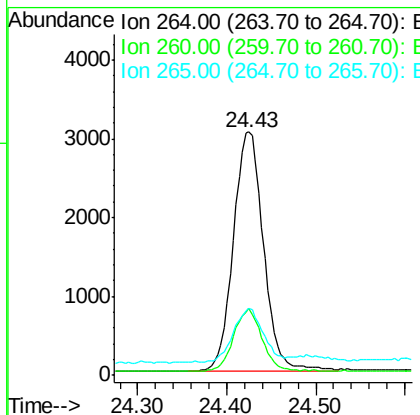
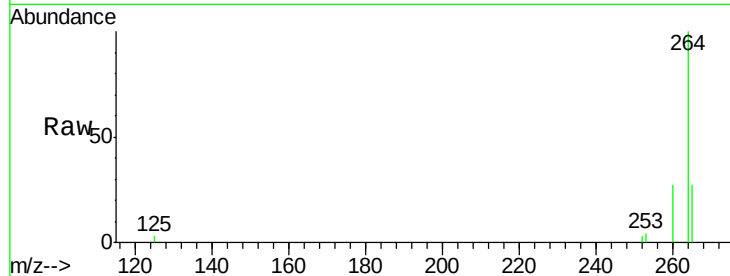




#34
Pervlene-d12
Concen: 0.400 ng
RT: 24.43 min Scan# 2718
Delta R.T. 0.00 min
Lab File: BE095708.D
Acq: 6 Mar 2018 21:34

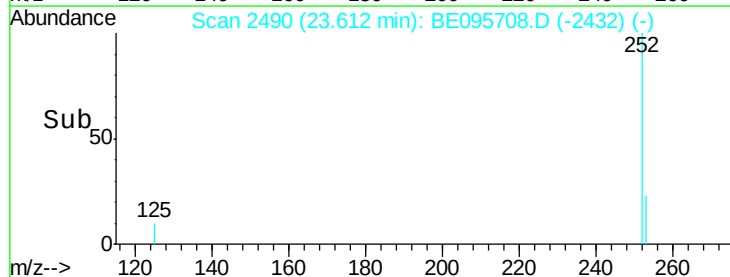
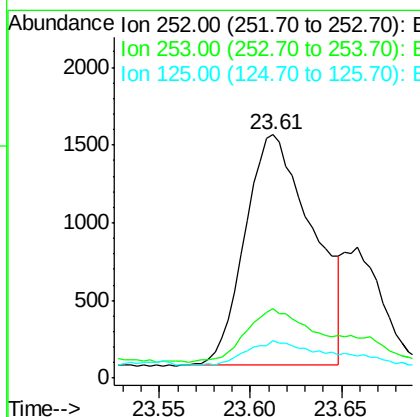
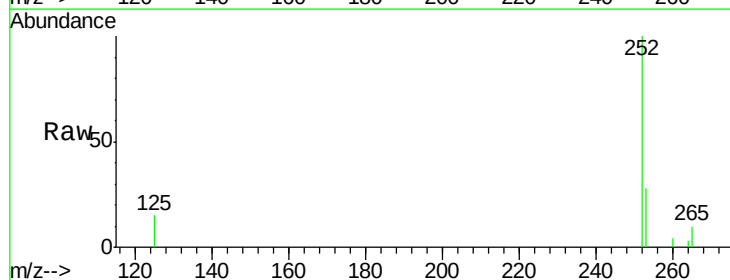
Instrument :
BNA_E
ClientSampleId :

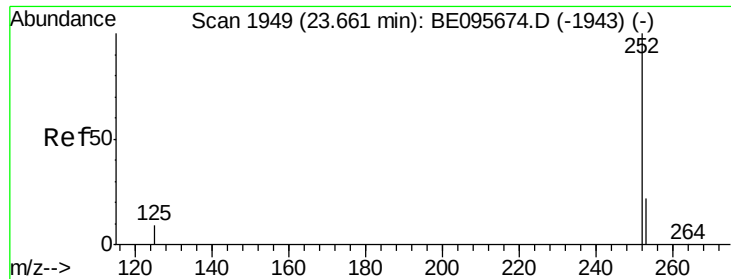
Tot Ion:264 Resp: 7177
Ion Ratio Lower Upper
264 100
260 27.4 20.5 30.7
265 27.5 22.8 34.2



#35
Benzo(b)fluoranthene
Concen: 0.151 ng
RT: 23.61 min Scan# 2490
Delta R.T. 0.01 min
Lab File: BE095708.D
Acq: 6 Mar 2018 21:34

Tgt Ion:252 Resp: 3853
Ion Ratio Lower Upper
252 100
253 28.5 20.0 30.0
125 15.2 16.0 24.0#

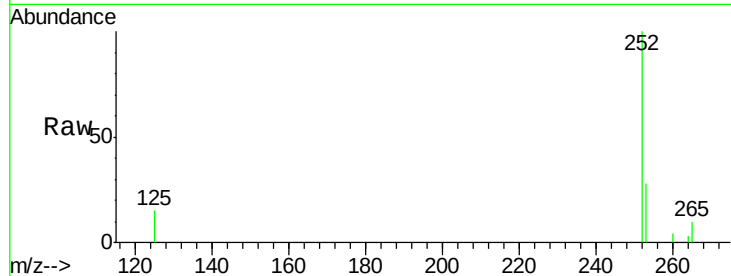




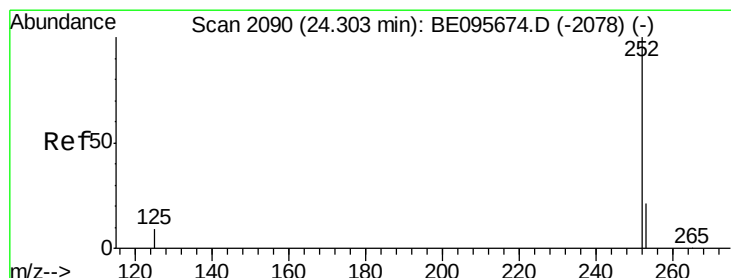
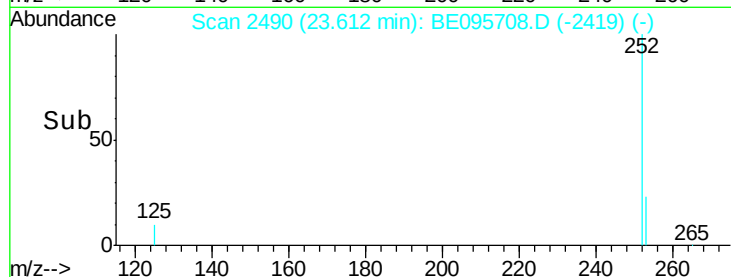
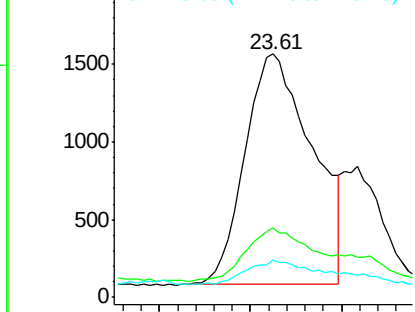
#36
Benzo(k)fluoranthene
Concen: 0.152 ng
RT: 23.61 min Scan# 2490
Delta R.T. -0.05 min
Lab File: BE095708.D
Acq: 6 Mar 2018 21:34

Instrument :
BNA_E
ClientSampleId :

Tot Ion:252 Resp: 3853
Ion Ratio Lower Upper
252 100
253 28.5 16.0 24.0#
125 15.2 8.0 12.0#

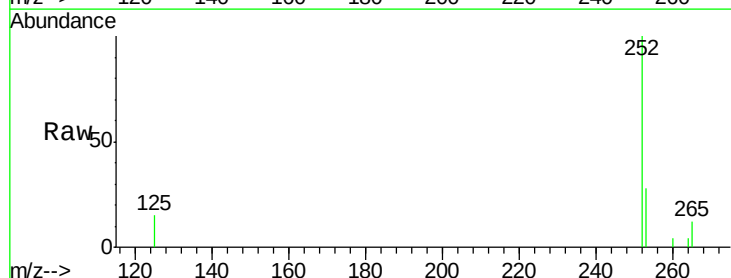


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

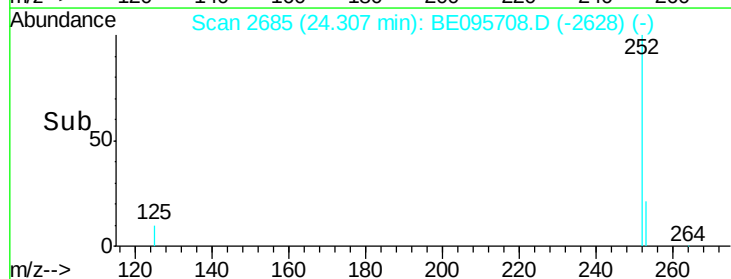
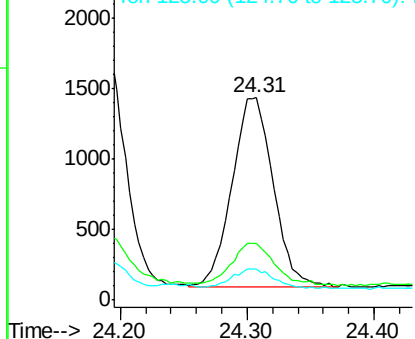


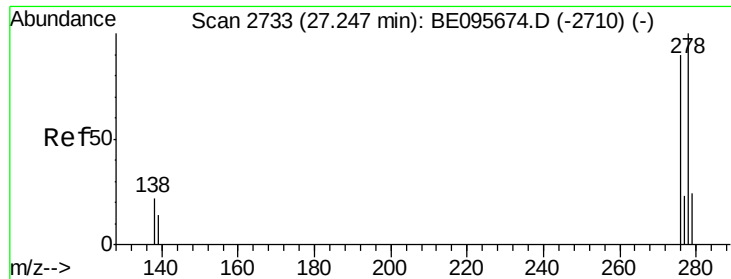
#37
Benzo(a)pyrene
Concen: 0.132 ng
RT: 24.31 min Scan# 2685
Delta R.T. 0.00 min
Lab File: BE095708.D
Acq: 6 Mar 2018 21:34

Tgt Ion:252 Resp: 3048
Ion Ratio Lower Upper
252 100
253 28.0 16.0 24.0#
125 15.3 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





#38

Dibenzo(a,h)anthracene

Concen: 0.053 ng

RT: 27.24 min Scan# 3502

Delta R.T. -0.01 min

Lab File: BE095708.D

Acq: 6 Mar 2018 21:34

Instrument :

BNA_E

ClientSampleId :

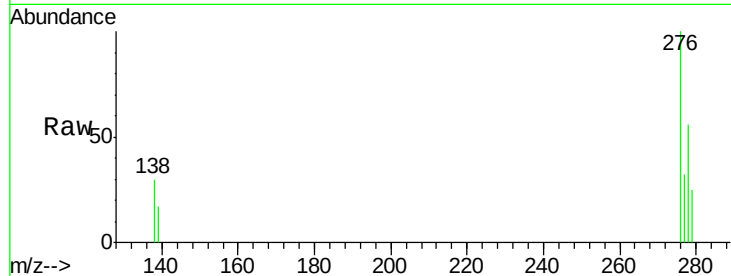
Tot Ion:278 Resp: 1096

Ion Ratio Lower Upper

278 100

139 30.0 16.0 24.0#

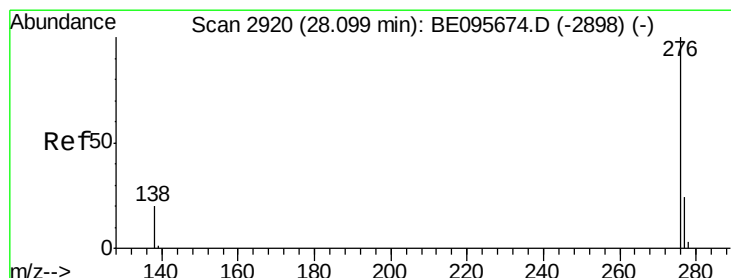
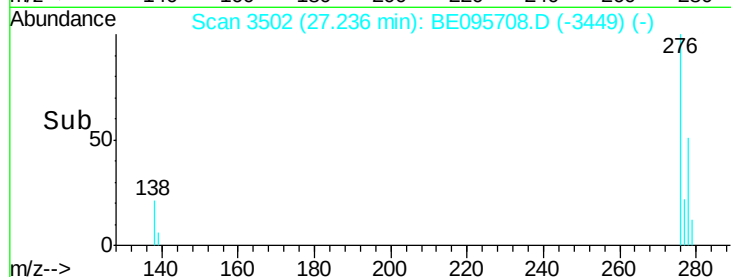
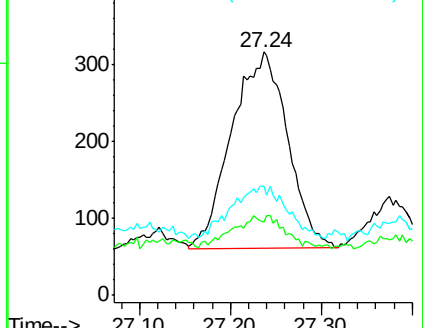
279 44.8 20.0 30.0#



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(g,h,i)perylene

Concen: 0.133 ng

RT: 28.10 min Scan# 3744

Delta R.T. 0.00 min

Lab File: BE095708.D

Acq: 6 Mar 2018 21:34

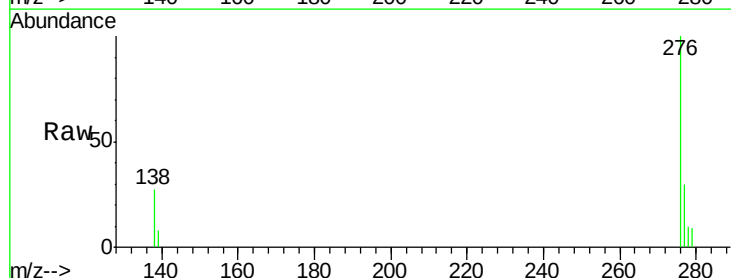
Tgt Ion:276 Resp: 2929

Ion Ratio Lower Upper

276 100

277 30.0 16.0 24.0#

138 27.0 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

