

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101918\
 Data File : BE097992.D
 Acq On : 19 Oct 2018 15:24
 Operator : SJ/JU
 Sample : J5237-05
 Misc :
 ALS Vial : 6 Sample Multiplier: 50

Instrument :
 BNA_E
 ClientSampleId :
 BSS-GW1

Quant Time: May 14 17:59:23 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE101618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 16 15:36:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.88	152	196456	20.00	ng	0.00
7) Naphthalene-d8	10.68	136	922052	20.00	ng	-0.01
13) Acenaphthene-d10	14.54	164	644434	20.00	ng	-0.01
19) Phenanthrene-d10	17.29	188	1517863	20.00	ng	-0.01
27) Chrysene-d12	21.48	240	1615844	20.00	ng	-0.01
34) Perylene-d12	24.04	264	1681895	20.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.45	112	763044	61.59	ng	-0.01
5) Phenol-d6	7.06	99	827388	45.19	ng	0.00
8) Nitrobenzene-d5	9.03	82	1494196	85.56	ng	-0.01
11) 2-Methylnaphthalene-d10	12.28	152	258	0.01	ng	-0.01
14) 2,4,6-Tribromophenol	16.04	330	909354	131.19	ng	0.00
15) 2-Fluorobiphenyl	13.18	172	3130536	59.44	ng	0.00
25) Fluoranthene-d10	19.39	212	756	0.00	ng	0.06
29) Terphenyl-d14	19.93	244	4683789	63.24	ng	0.00

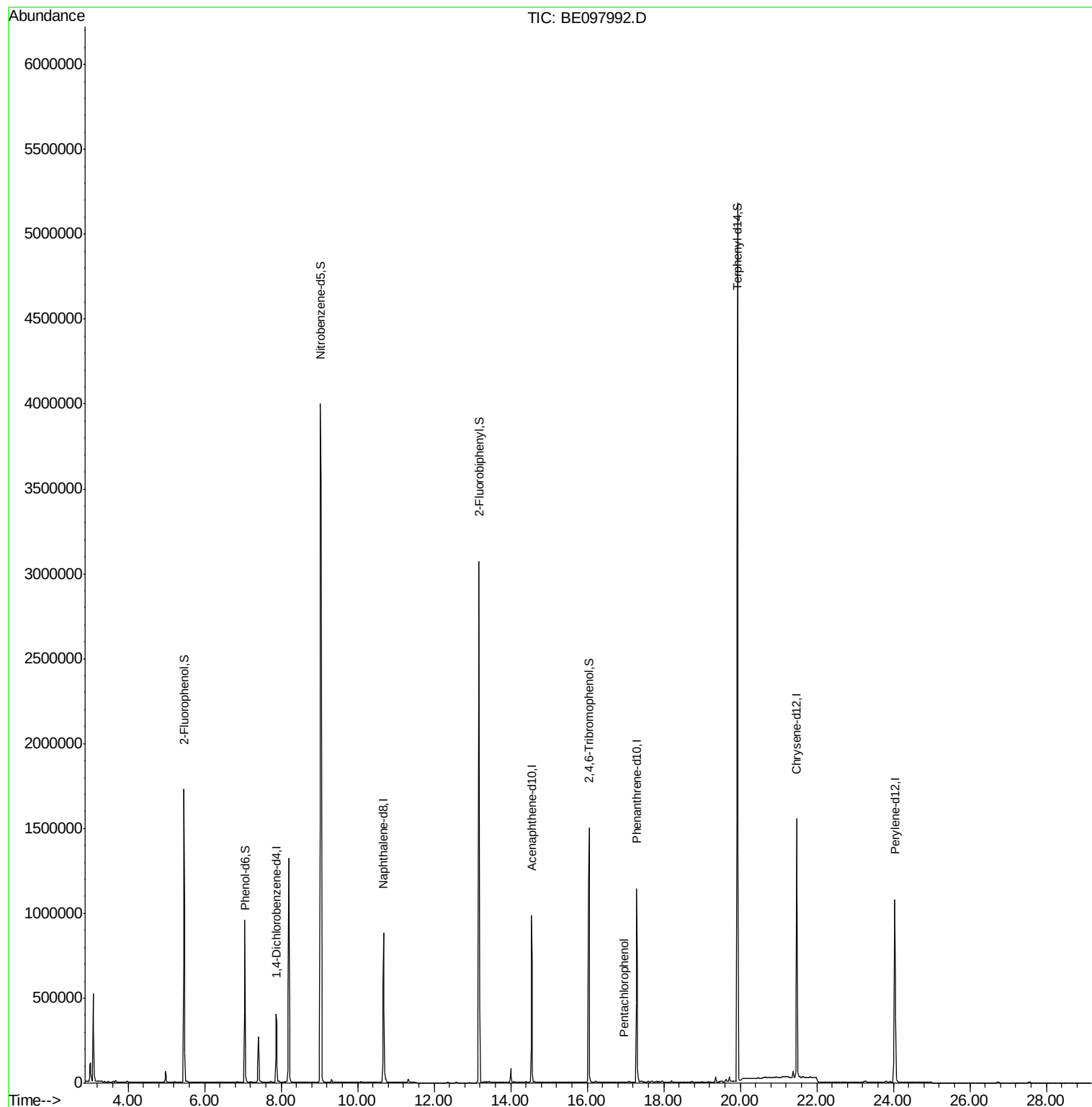
Target Compounds				Qvalue		
9) Naphthalene	10.73	128	26991	0.147	ng	99
12) 2-Methylnaphthalene	12.35	142	1794	0.057	ng	# 92
16) Acenaphthylene	14.27	152	1370	0.023	ng	# 85
17) Acenaphthene	14.62	154	4122	0.113	ng	96
18) Fluorene	15.59	166	3673	0.073	ng	# 94
22) Pentachlorophenol	16.95	266	1220	1.808	ng	96
23) Phenanthrene	17.34	178	25289	0.328	ng	# 92
24) Anthracene	17.42	178	5750	0.079	ng	# 84
26) Fluoranthene	19.35	202	26037	0.257	ng	97
28) Pyrene	19.72	202	27726	0.297	ng	97
30) Benzo(a)anthracene	21.46	228	20792	0.210	ng	# 87
31) Chrysene	21.51	228	10289	0.110	ng	# 84
35) Benzo(b)fluoranthene	23.25	252	16815	0.174	ng	# 78
37) Benzo(a)pyrene	23.91	252	11407	0.121	ng	# 81
39) Benzo(a,h,i)perylene	27.56	276	8950	0.095	ng	# 89

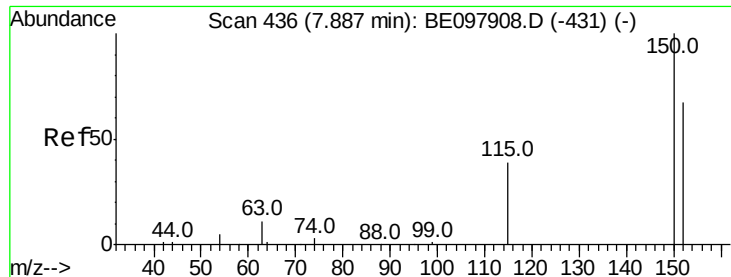
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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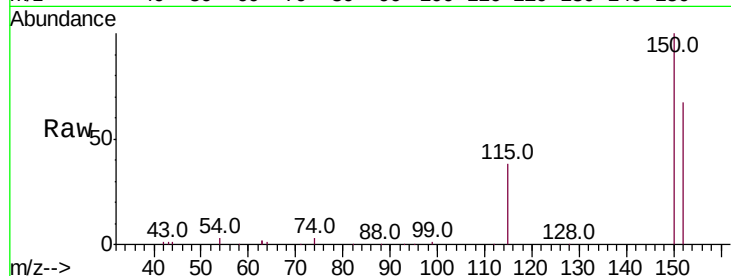


#1

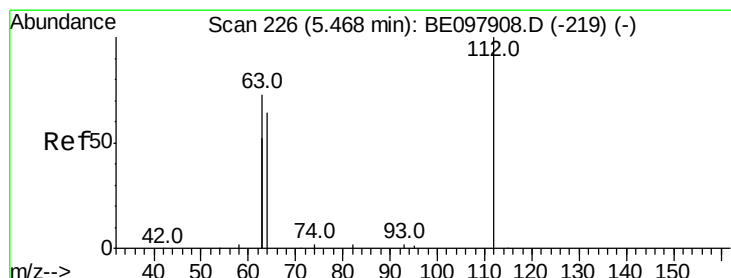
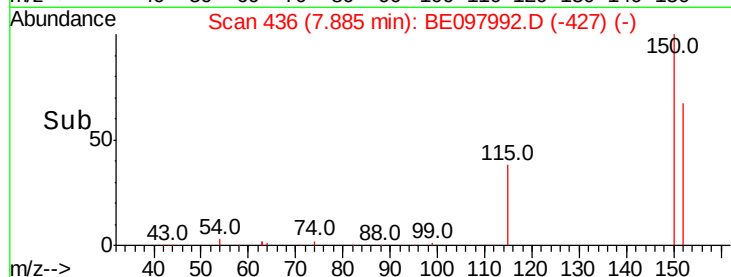
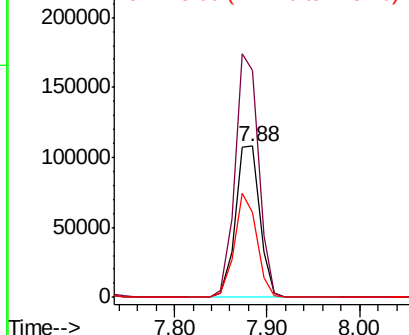
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.88 min Scan# 436
Delta R.T. -0.00 min
Lab File: BE097992.D
Acq: 19 Oct 2018 15:24

Instrument :
BNA_E
ClientSampleId :
BSS-GW1

Tot Ion:152 Resp: 196456
Ion Ratio Lower Upper
152 100
150 149.9 118.2 177.4
115 56.5 50.9 76.3



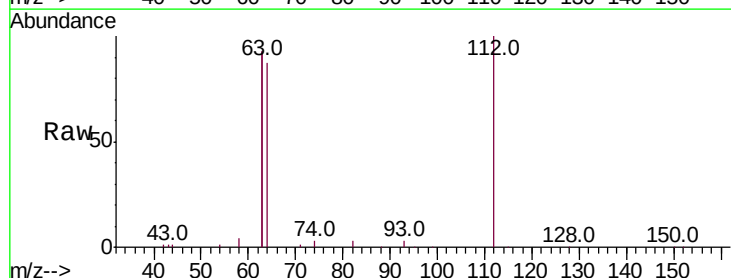
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



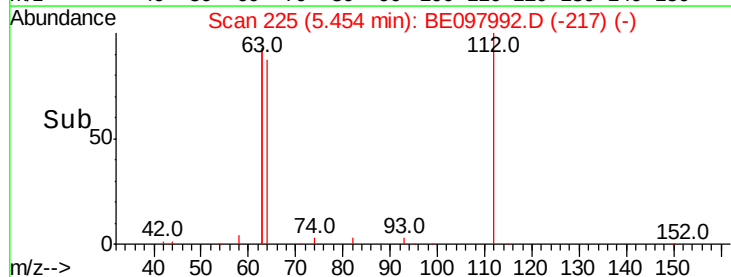
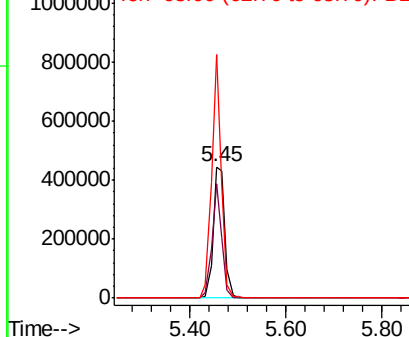
#4

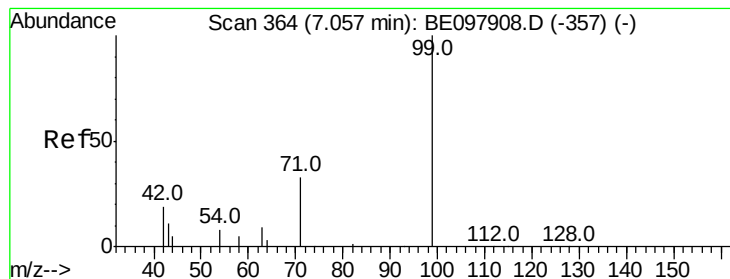
2-Fluorophenol
Concen: 61.589 ng
RT: 5.45 min Scan# 225
Delta R.T. -0.01 min
Lab File: BE097992.D
Acq: 19 Oct 2018 15:24

Tgt Ion:112 Resp: 763044
Ion Ratio Lower Upper
112 100
64 73.5 58.9 88.3
63 155.1 120.3 180.5



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: 45.189 ng

RT: 7.06 min Scan# 364

Delta R.T. -0.00 min

Lab File: BE097992.D

Acq: 19 Oct 2018 15:24

Instrument :

BNA_E

ClientSampleId :

BSS-GW1

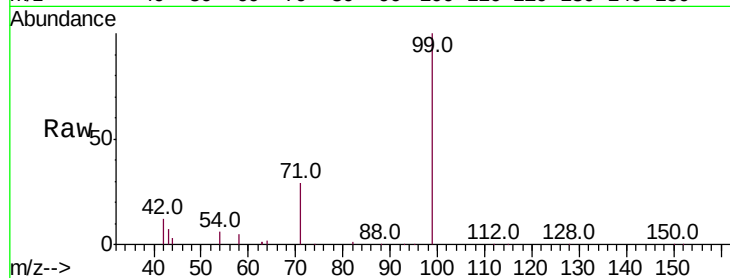
Tot Ion: 99 Resp: 827388

Ion Ratio Lower Upper

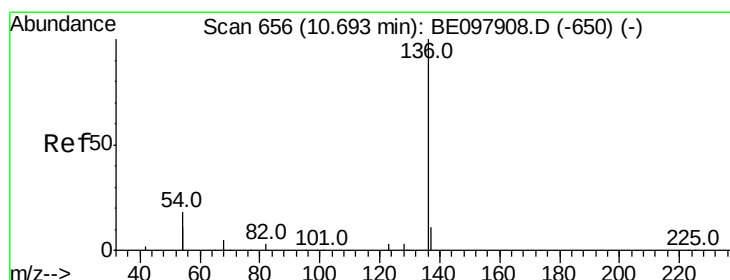
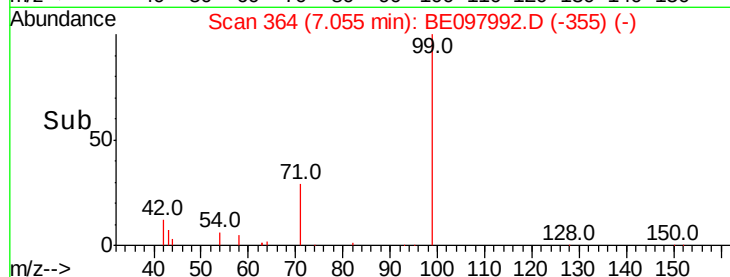
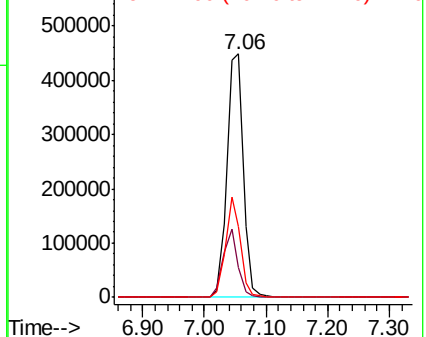
99 100

42 24.7 19.9 29.9

71 36.9 27.8 41.8



Abundance Ion 99.00 (98.70 to 99.70): BE0
Ion 42.00 (41.70 to 42.70): BE0
Ion 71.00 (70.70 to 71.70): BE0



#7

Naphthalene-d8

Concen: 20.000 ng

RT: 10.68 min Scan# 655

Delta R.T. -0.01 min

Lab File: BE097992.D

Acq: 19 Oct 2018 15:24

Tgt Ion: 136 Resp: 922052

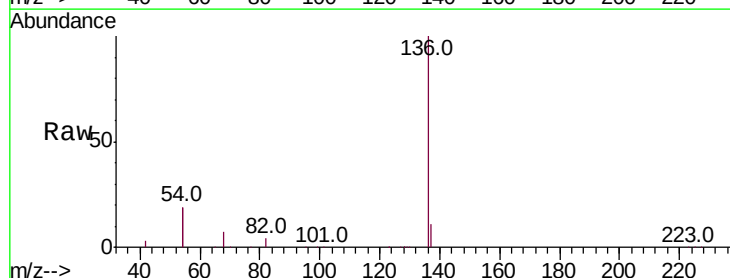
Ion Ratio Lower Upper

136 100

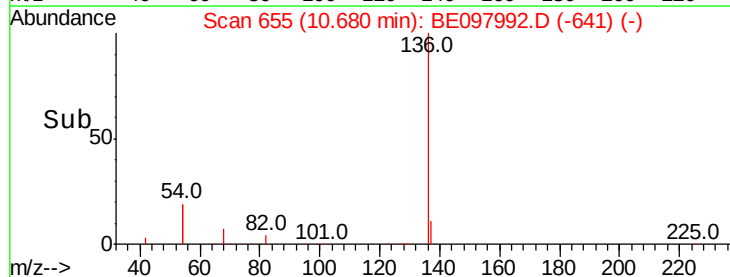
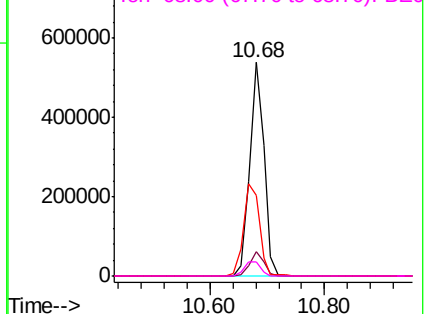
137 11.2 9.6 14.4

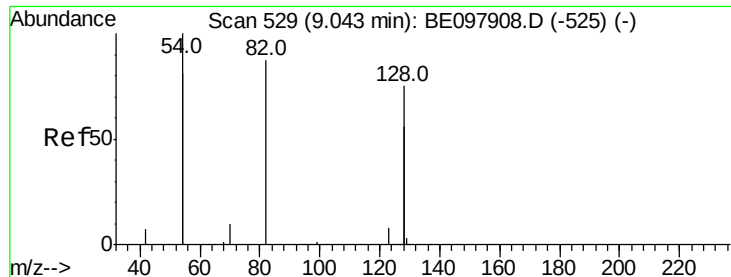
54 38.0 27.7 41.5

68 6.6 5.3 7.9



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

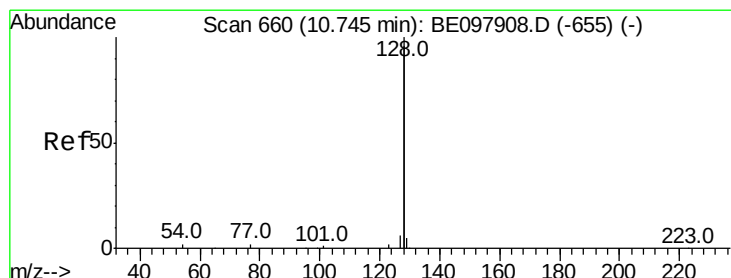
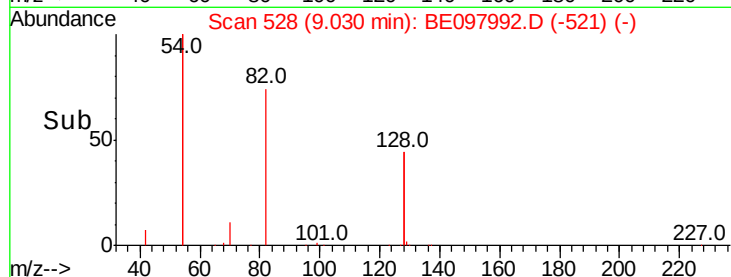
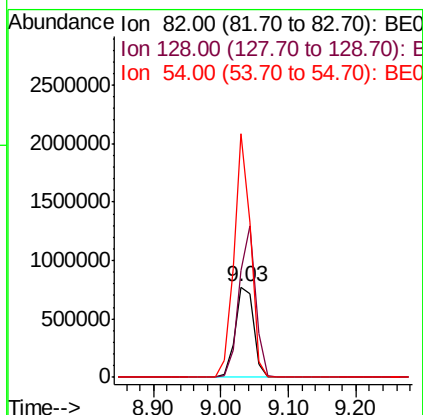
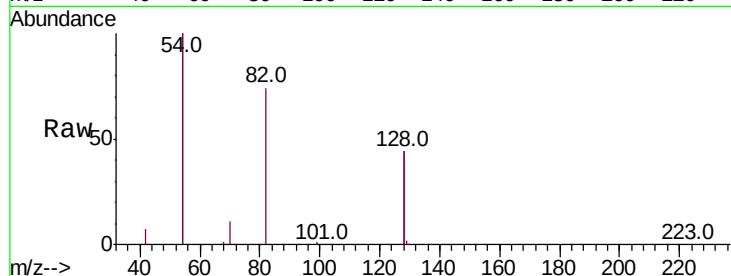




#8
 Nitrobenzene-d5
 Concen: 85.563 ng
 RT: 9.03 min Scan# 528
 Delta R.T. -0.01 min
 Lab File: BE097992.D
 Acq: 19 Oct 2018 15:24

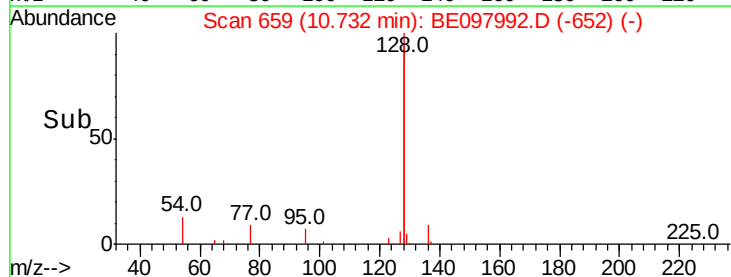
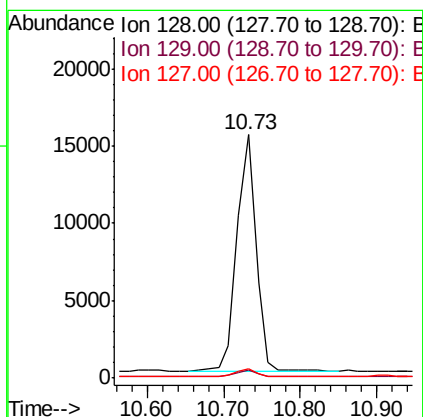
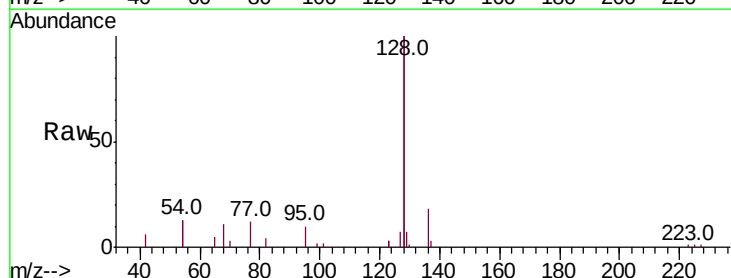
Instrument :
 BNA_E
 ClientSampleId :
 BSS-GW1

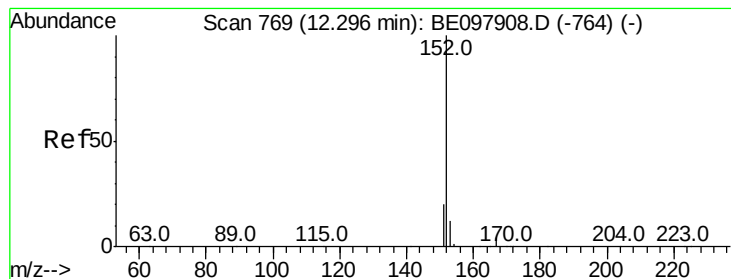
Tot Ion: 82 Resp: 1494196
 Ion Ratio Lower Upper
 82 100
 128 119.0 129.9 194.9#
 54 270.4 174.0 261.0#



#9
 Naphthalene
 Concen: 0.147 ng
 RT: 10.73 min Scan# 659
 Delta R.T. -0.01 min
 Lab File: BE097992.D
 Acq: 19 Oct 2018 15:24

Tgt Ion: 128 Resp: 26991
 Ion Ratio Lower Upper
 128 100
 129 3.3 2.5 3.7
 127 3.7 2.8 4.2





#11

2-Methylnaphthalene-d10

Concen: 0.008 ng

RT: 12.28 min Scan# 768

Delta R.T. -0.01 min

Lab File: BE097992.D

Acq: 19 Oct 2018 15:24

Instrument :

BNA_E

ClientSampleId :

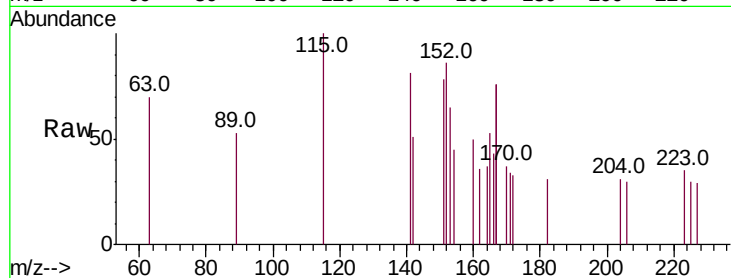
BSS-GW1

Tot Ion:152 Resp: 258

Ion Ratio Lower Upper

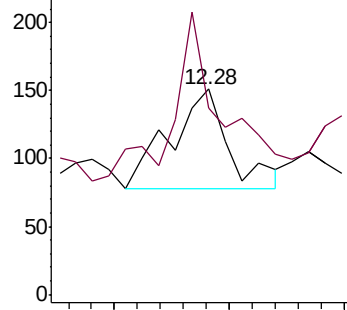
152 100

151 87.2 16.2 24.4#

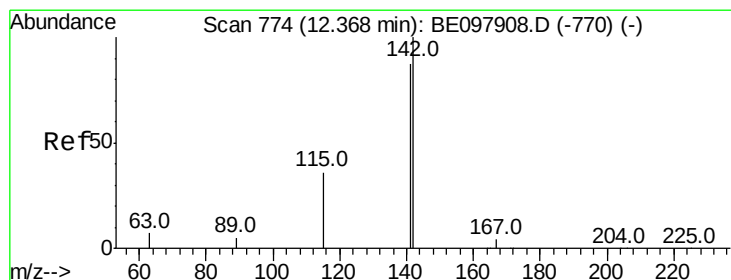
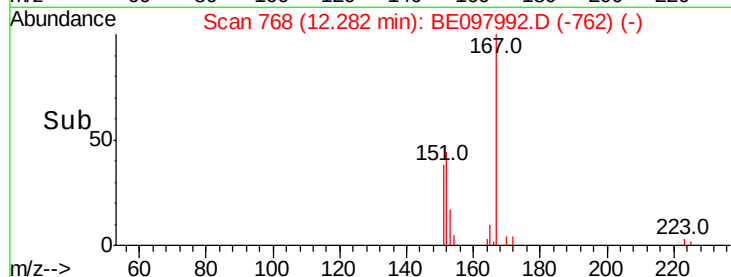


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



Time-->



#12

2-Methylnaphthalene

Concen: 0.057 ng

RT: 12.35 min Scan# 773

Delta R.T. -0.01 min

Lab File: BE097992.D

Acq: 19 Oct 2018 15:24

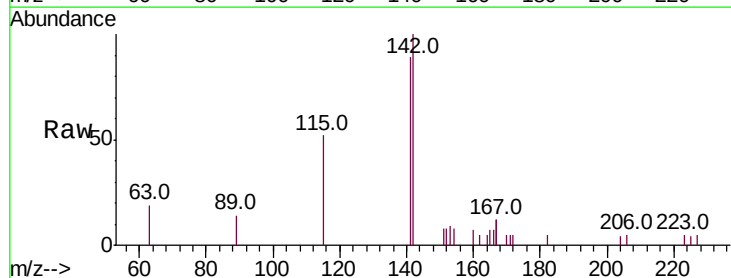
Tgt Ion:142 Resp: 1794

Ion Ratio Lower Upper

142 100

141 88.6 69.8 104.6

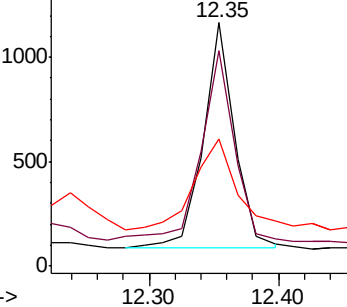
115 52.1 30.5 45.7#



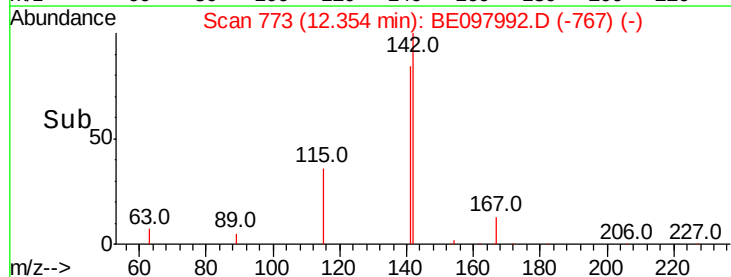
Abundance Ion 142.00 (141.70 to 142.70): E

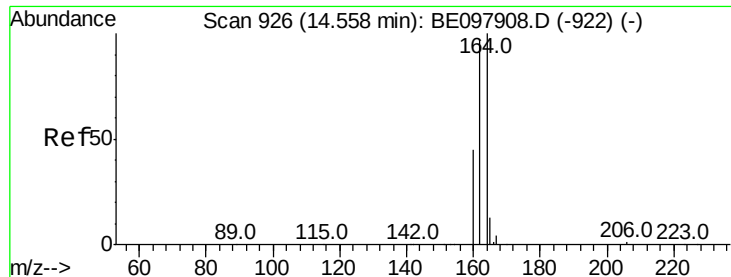
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



Time-->





#13

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.54 min Scan# 925

Delta R.T. -0.01 min

Lab File: BE097992.D

Acq: 19 Oct 2018 15:24

Instrument :

BNA_E

ClientSampleId :

BSS-GW1

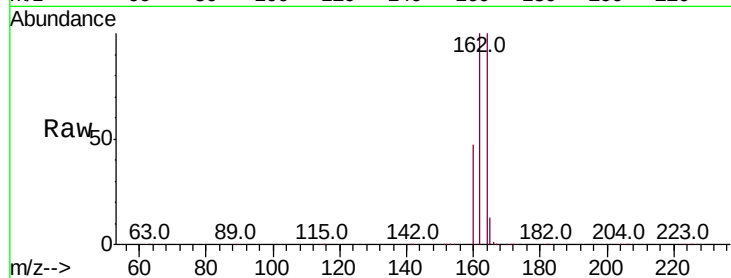
Tot Ion:164 Resp: 644434

Ion Ratio Lower Upper

164 100

162 100.2 77.4 116.2

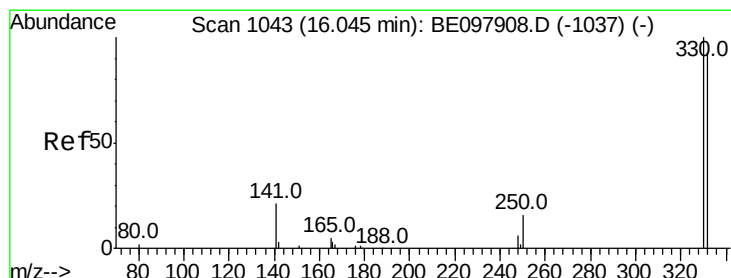
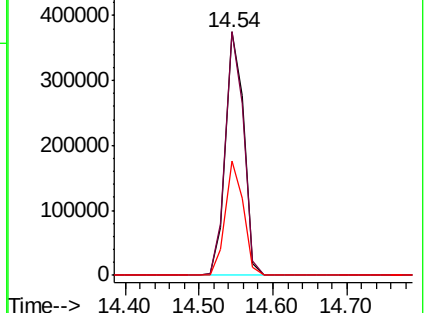
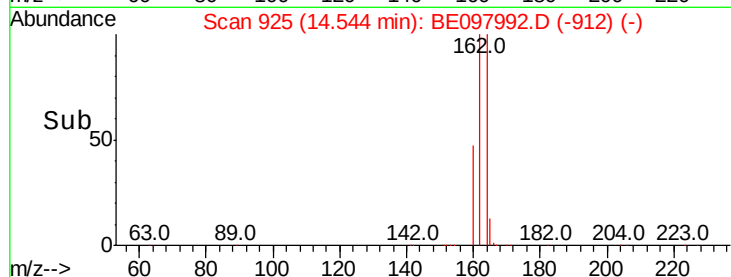
160 47.0 36.5 54.7



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



#14

2,4,6-Tribromophenol

Concen: 131.189 ng

RT: 16.04 min Scan# 1043

Delta R.T. -0.00 min

Lab File: BE097992.D

Acq: 19 Oct 2018 15:24

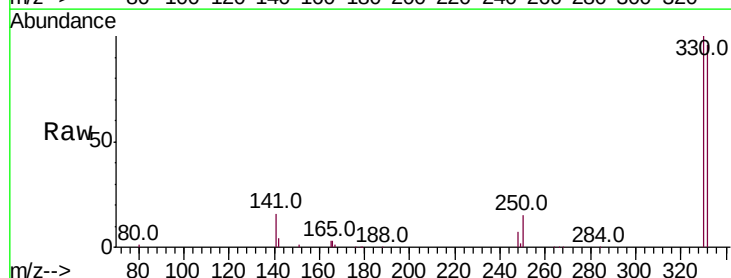
Tgt Ion:330 Resp: 909354

Ion Ratio Lower Upper

330 100

332 95.5 76.5 114.7

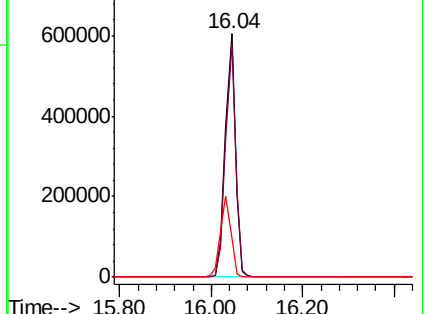
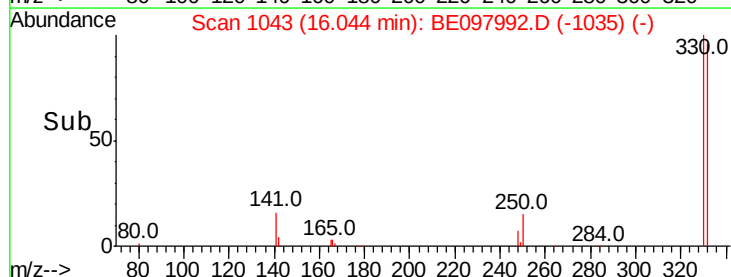
141 34.6 31.8 47.6

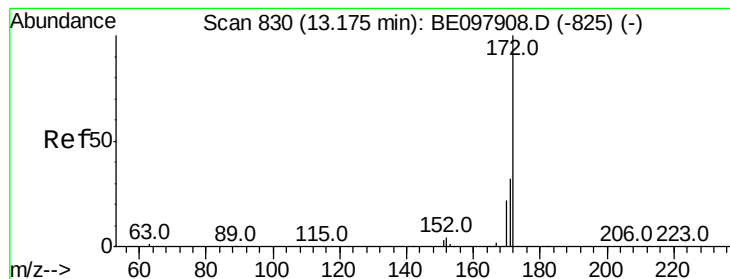


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 59.437 ng

RT: 13.18 min Scan# 830

Delta R.T. 0.00 min

Lab File: BE097992.D

Acq: 19 Oct 2018 15:24

Instrument :

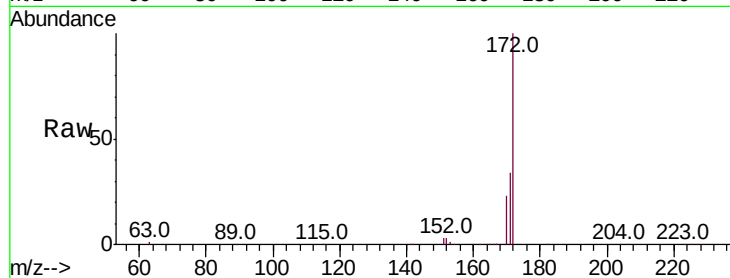
BNA_E

ClientSampleId :

BSS-GW1

Tot Ion:172 Resp: 3130536

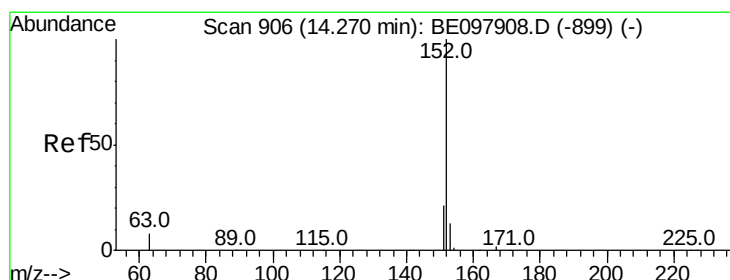
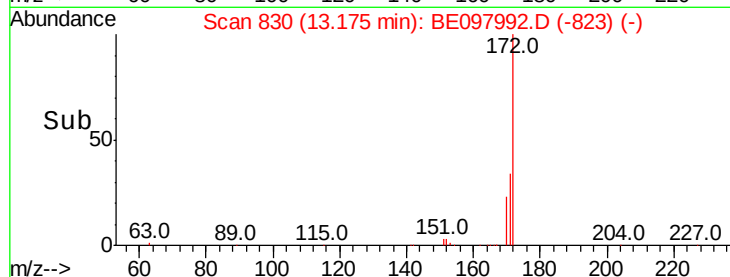
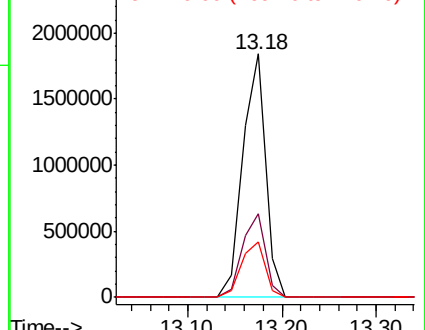
Ion	Ratio	Lower	Upper
172	100		
171	34.2	26.0	39.0
170	22.7	18.0	27.0



Abundance Ion 172.00 (171.70 to 172.70): E

2500000 Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#16

Acenaphthylene

Concen: 0.023 ng

RT: 14.27 min Scan# 906

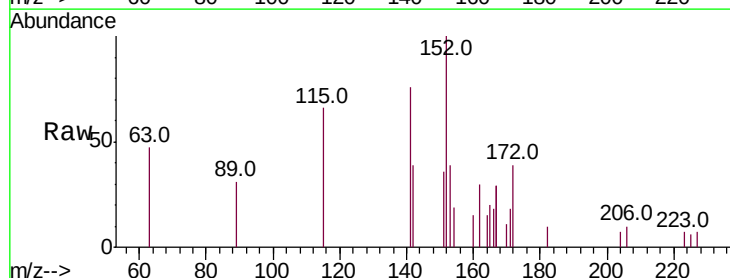
Delta R.T. 0.00 min

Lab File: BE097992.D

Acq: 19 Oct 2018 15:24

Tgt Ion:152 Resp: 1370

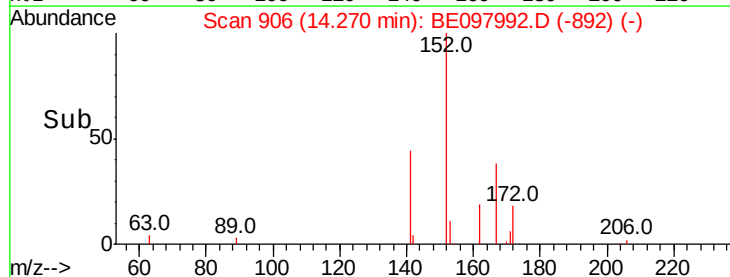
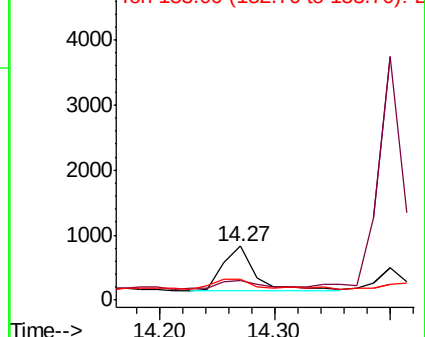
Ion	Ratio	Lower	Upper
152	100		
151	22.6	16.1	24.1
153	25.6	10.9	16.3

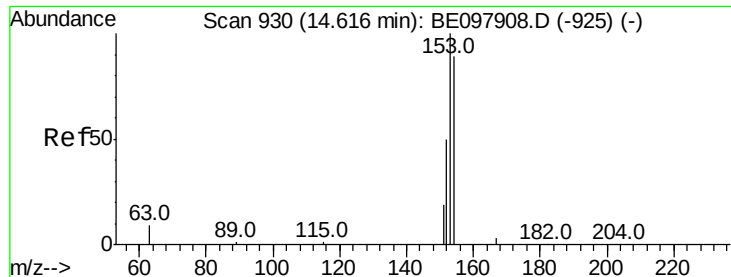


Abundance Ion 152.00 (151.70 to 152.70): E

5000 Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 0.113 ng

RT: 14.62 min Scan# 930

Delta R.T. 0.00 min

Lab File: BE097992.D

Acq: 19 Oct 2018 15:24

Instrument :

BNA_E

ClientSampleId :

BSS-GW1

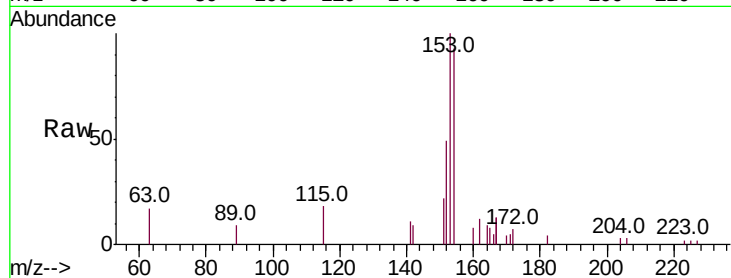
Tot Ion:154 Resp: 4122

Ion Ratio Lower Upper

154 100

153 119.8 92.6 139.0

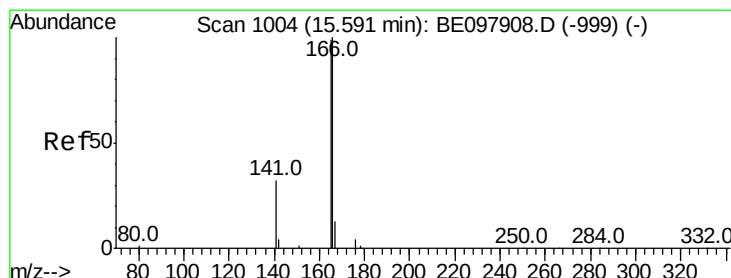
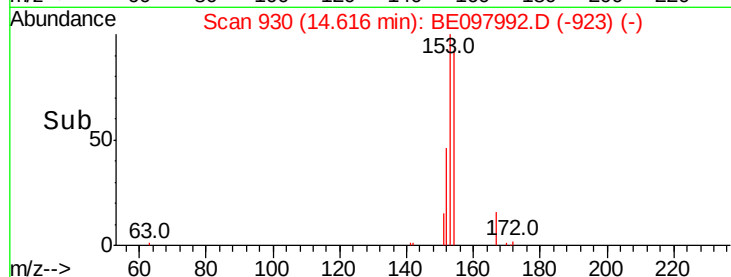
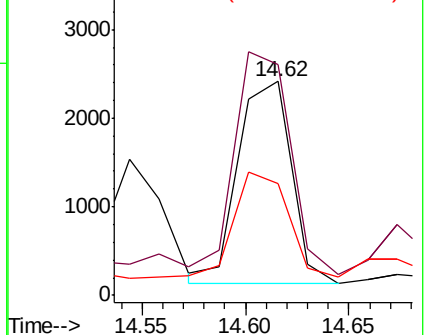
152 54.2 45.5 68.3



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#18

Fluorene

Concen: 0.073 ng

RT: 15.59 min Scan# 1004

Delta R.T. -0.00 min

Lab File: BE097992.D

Acq: 19 Oct 2018 15:24

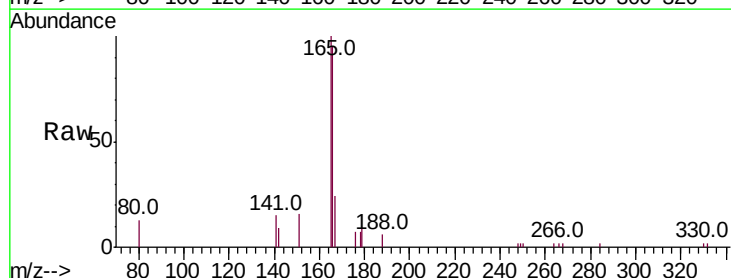
Tgt Ion:166 Resp: 3673

Ion Ratio Lower Upper

166 100

165 93.1 78.2 117.4

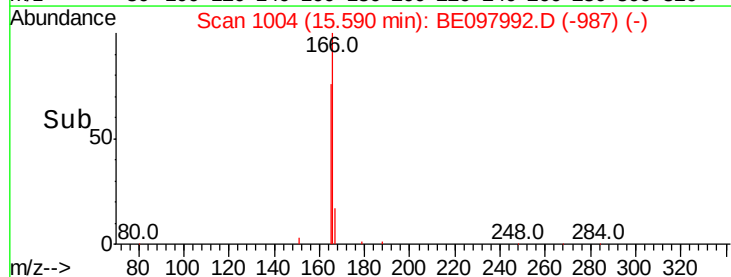
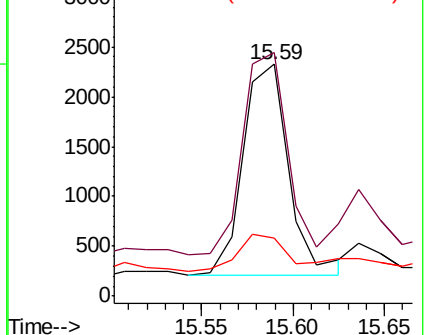
167 19.9 11.0 16.6#

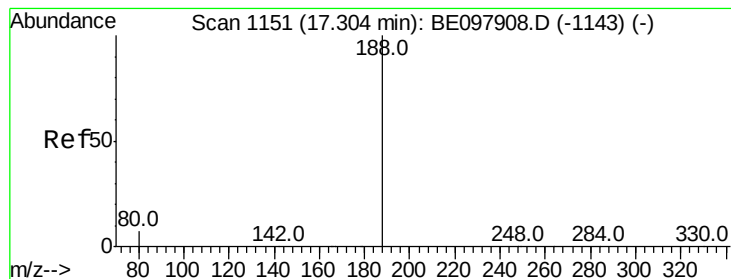


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.29 min Scan# 1150

Delta R.T. -0.01 min

Lab File: BE097992.D

Acq: 19 Oct 2018 15:24

Instrument :

BNA_E

ClientSampleId :

BSS-GW1

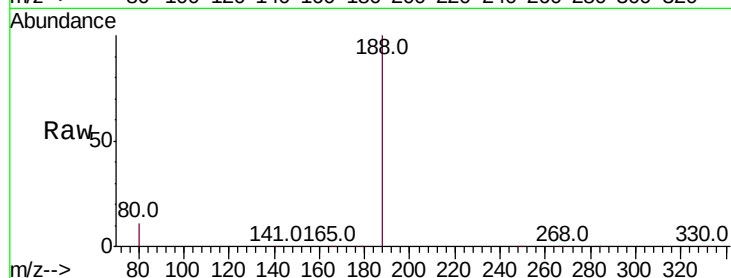
Tot Ion:188 Resp: 1517863

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

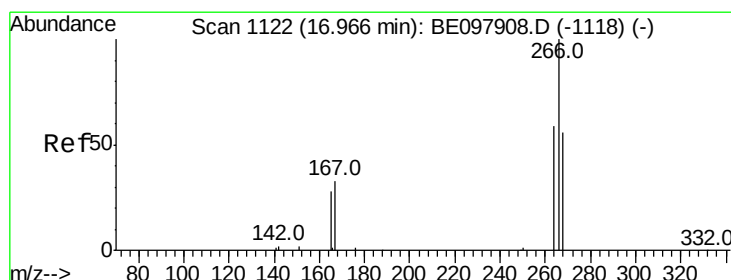
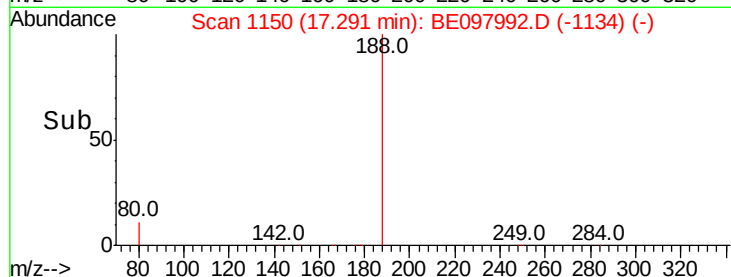
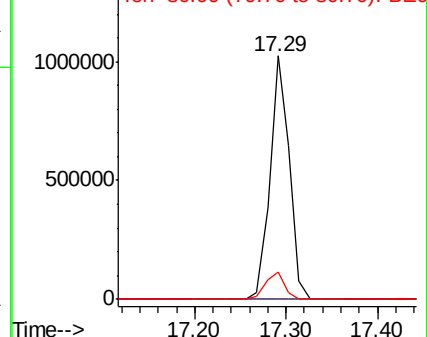
80 11.1 6.3 9.5#



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



#22

Pentachlorophenol

Concen: 1.808 ng

RT: 16.95 min Scan# 1121

Delta R.T. -0.01 min

Lab File: BE097992.D

Acq: 19 Oct 2018 15:24

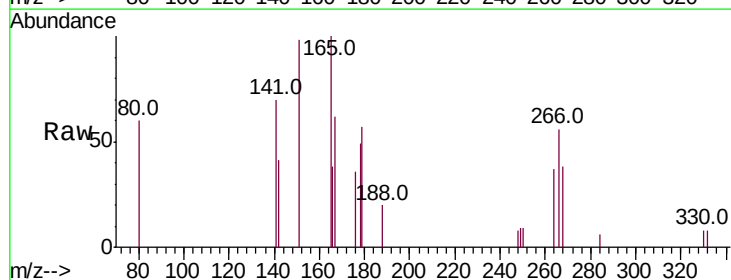
Tgt Ion:266 Resp: 1220

Ion Ratio Lower Upper

266 100

264 65.5 51.3 76.9

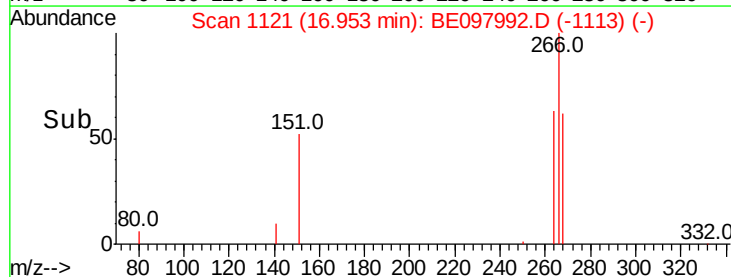
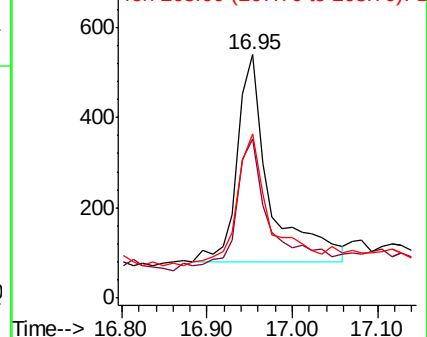
268 67.3 50.1 75.1

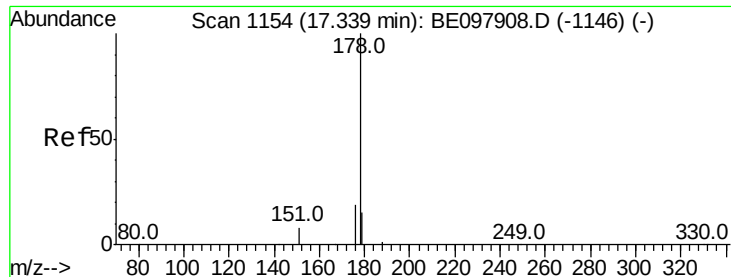


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.328 ng

RT: 17.34 min Scan# 1154

Delta R.T. -0.00 min

Lab File: BE097992.D

Acq: 19 Oct 2018 15:24

Instrument :

BNA_E

ClientSampleId :

BSS-GW1

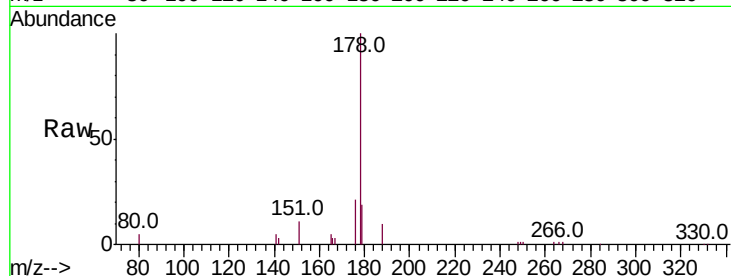
Tot Ion:178 Resp: 25289

Ion Ratio Lower Upper

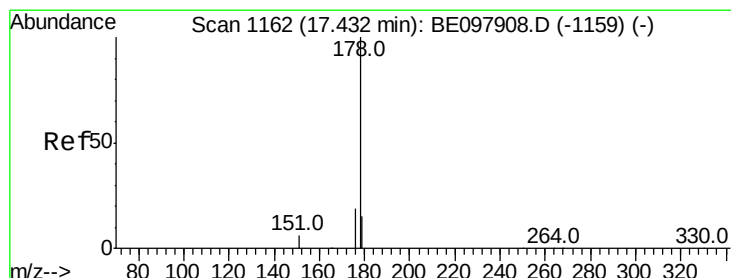
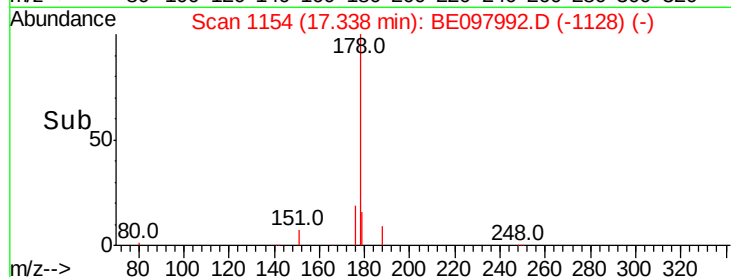
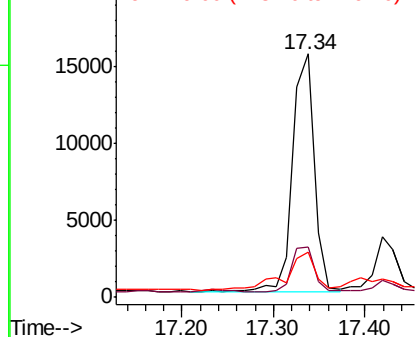
178 100

176 19.7 15.5 23.3

179 22.1 12.2 18.4#



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: 0.079 ng

RT: 17.42 min Scan# 1161

Delta R.T. -0.01 min

Lab File: BE097992.D

Acq: 19 Oct 2018 15:24

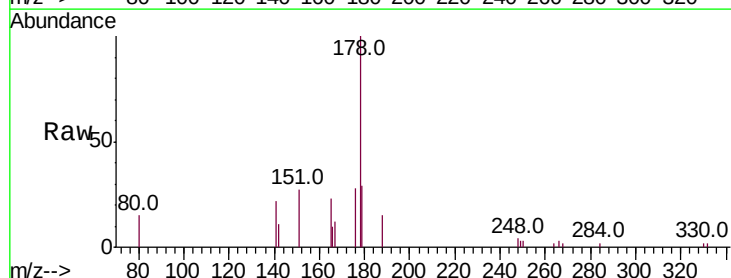
Tgt Ion:178 Resp: 5750

Ion Ratio Lower Upper

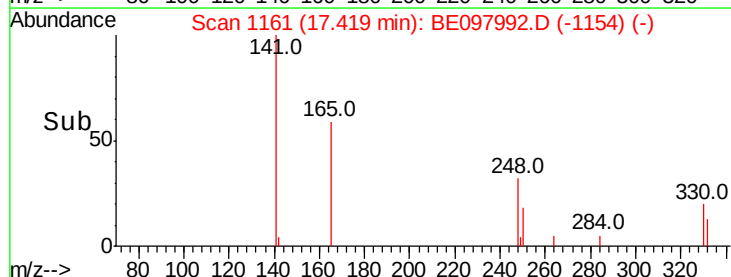
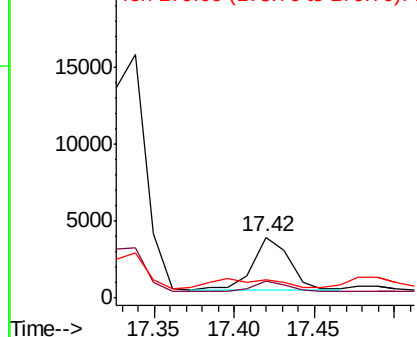
178 100

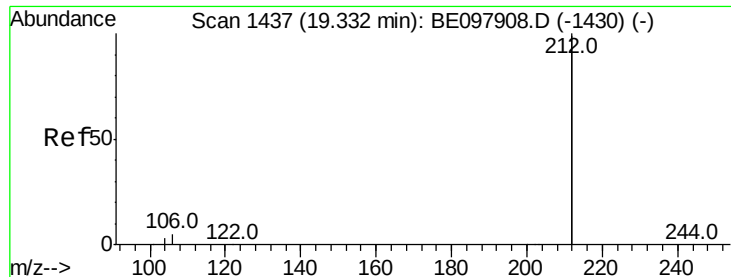
176 18.8 14.9 22.3

179 0.0 11.9 17.9#



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: 0.002 ng

RT: 19.39 min Scan# 1447

Delta R.T. 0.06 min

Lab File: BE097992.D

Acq: 19 Oct 2018 15:24

Instrument :

BNA_E

ClientSampleId :

BSS-GW1

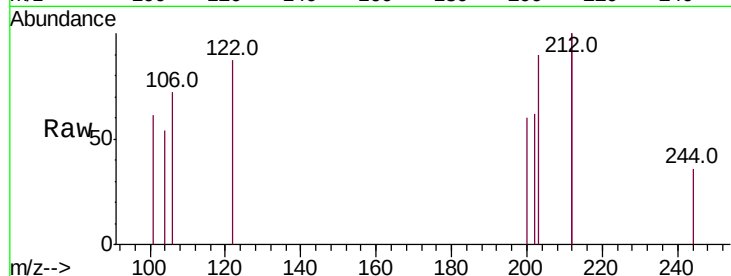
Tot Ion:212 Resp: 756

Ion Ratio Lower Upper

212 100

106 10.3 2.3 3.5#

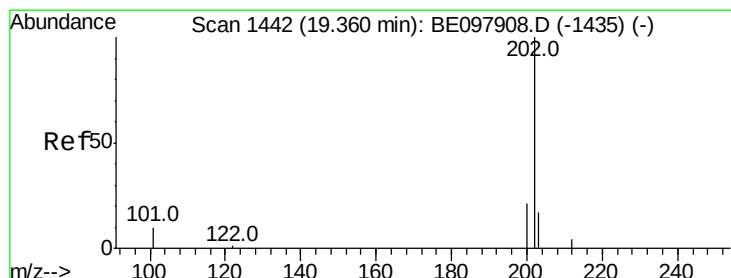
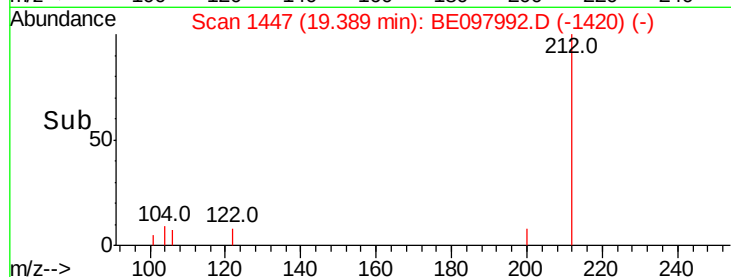
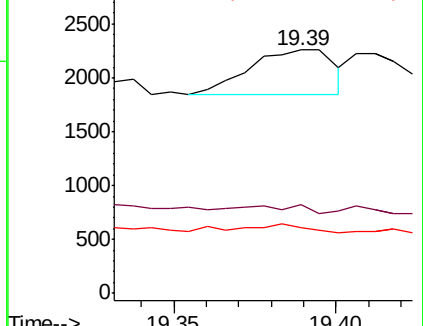
104 19.0 1.3 1.9#



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: 0.257 ng

RT: 19.35 min Scan# 1441

Delta R.T. -0.01 min

Lab File: BE097992.D

Acq: 19 Oct 2018 15:24

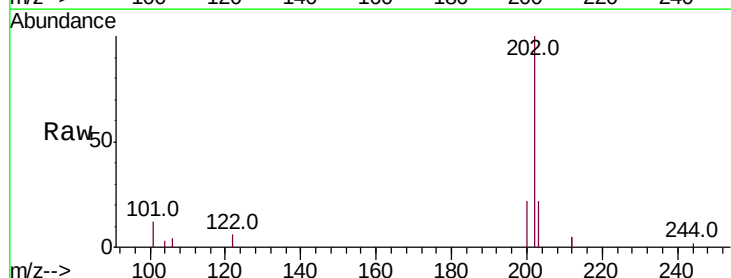
Tgt Ion:202 Resp: 26037

Ion Ratio Lower Upper

202 100

101 11.2 8.2 12.2

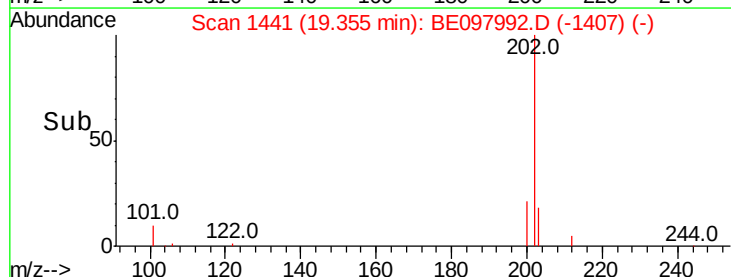
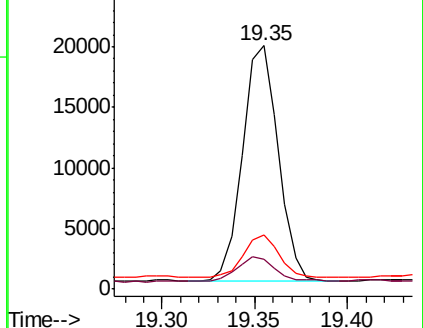
203 17.4 15.0 22.4

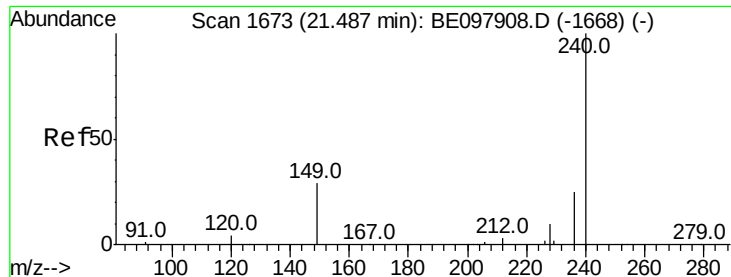


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

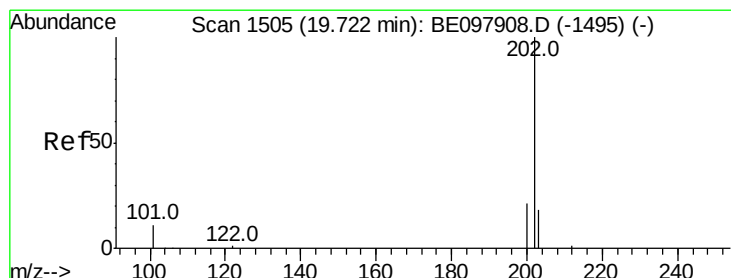
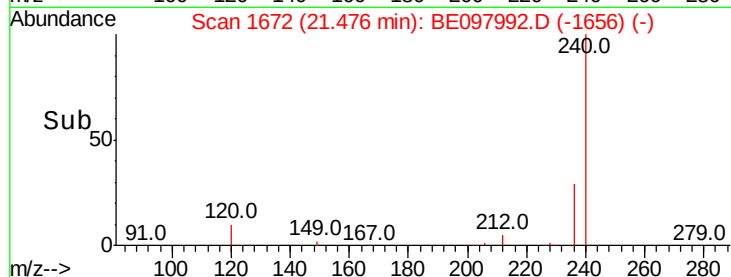
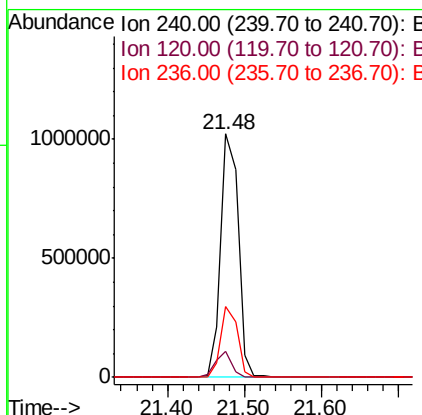
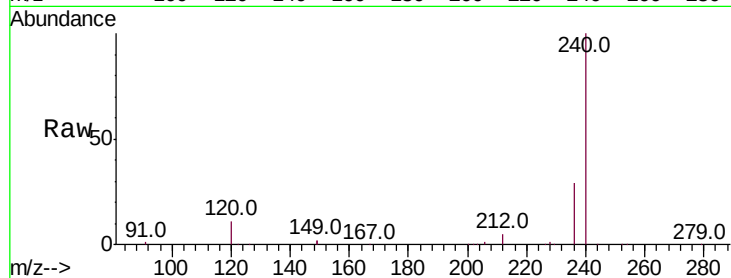




#27
 Chrysene-d12
 Concen: 20.000 ng
 RT: 21.48 min Scan# 1672
 Delta R.T. -0.01 min
 Lab File: BE097992.D
 Acq: 19 Oct 2018 15:24

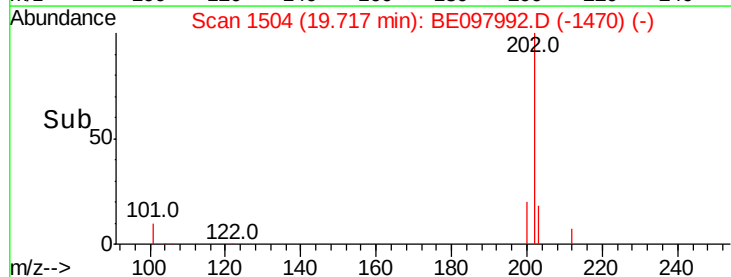
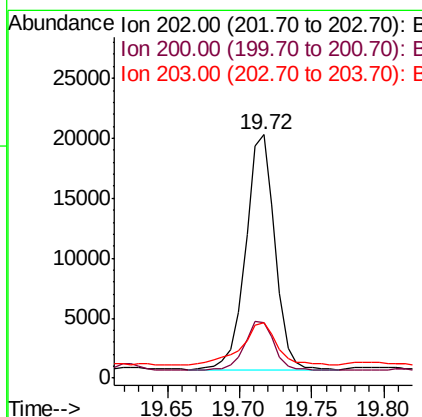
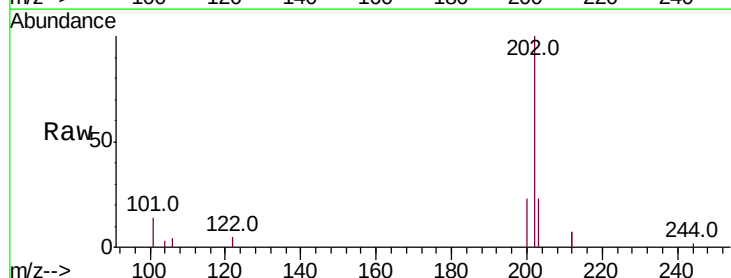
Instrument :
 BNA_E
 ClientSampleId :
 BSS-GW1

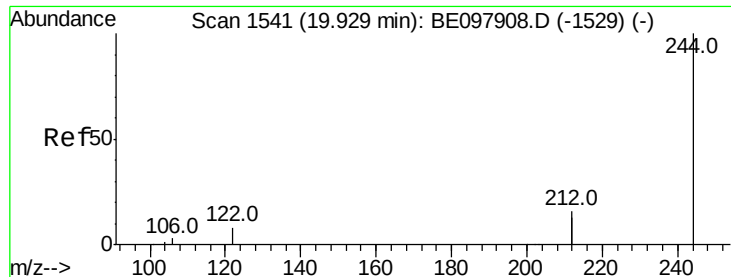
Tot Ion:240 Resp: 1615844
 Ion Ratio Lower Upper
 240 100
 120 10.5 7.1 10.7
 236 28.8 21.3 31.9



#28
 Pyrene
 Concen: 0.297 ng
 RT: 19.72 min Scan# 1504
 Delta R.T. -0.01 min
 Lab File: BE097992.D
 Acq: 19 Oct 2018 15:24

Tgt Ion:202 Resp: 27726
 Ion Ratio Lower Upper
 202 100
 200 21.4 17.0 25.4
 203 20.8 14.2 21.4





#29

Terphenyl-d14

Concen: 63.236 ng

RT: 19.93 min Scan# 1541

Delta R.T. -0.00 min

Lab File: BE097992.D

Acq: 19 Oct 2018 15:24

Instrument :

BNA_E

ClientSampleId :

BSS-GW1

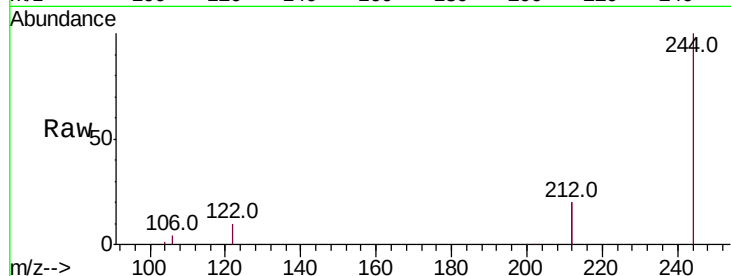
Tot Ion:244 Resp: 4683789

Ion Ratio Lower Upper

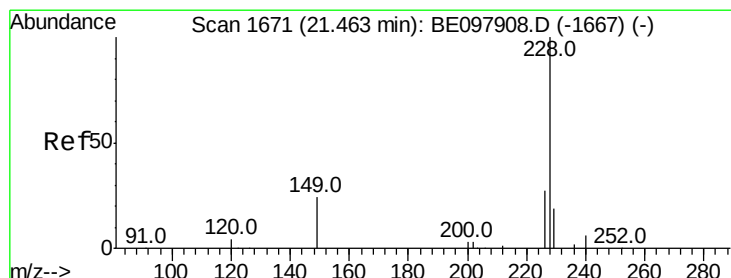
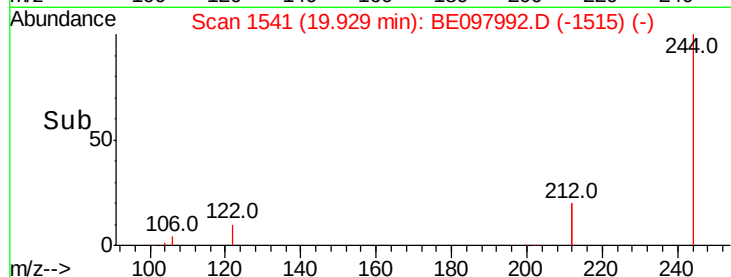
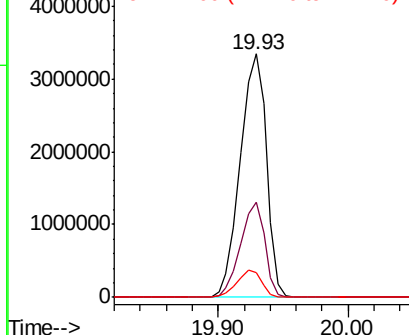
244 100

212 39.3 26.2 39.2#

122 10.2 7.7 11.5



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: 0.210 ng

RT: 21.46 min Scan# 1671

Delta R.T. 0.00 min

Lab File: BE097992.D

Acq: 19 Oct 2018 15:24

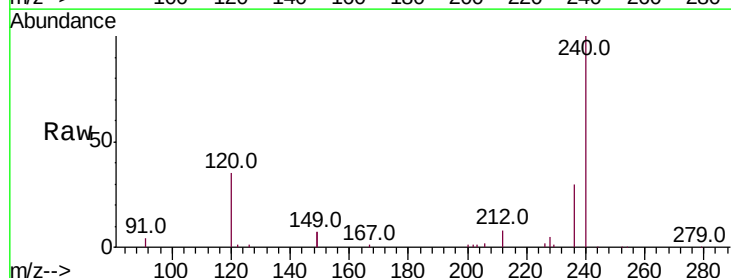
Tgt Ion:228 Resp: 20792

Ion Ratio Lower Upper

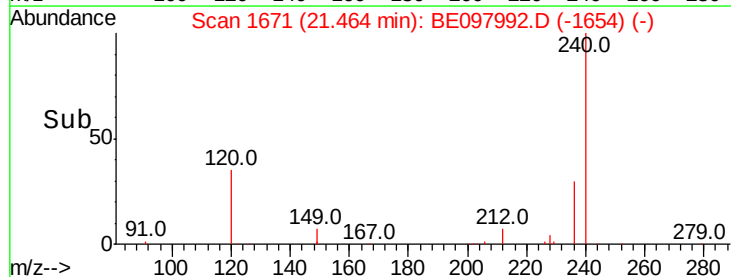
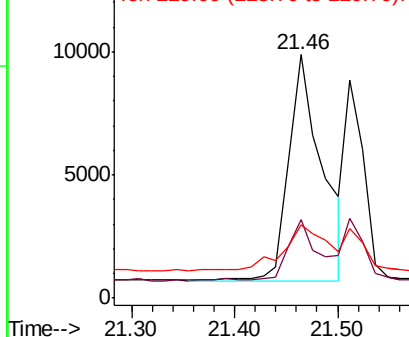
228 100

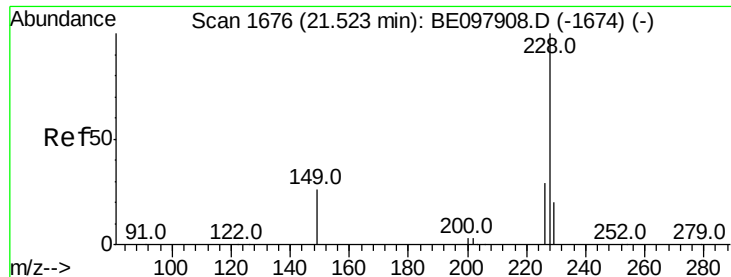
226 32.5 22.6 33.8

229 29.9 16.9 25.3#



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: 0.110 ng

RT: 21.51 min Scan# 1675

Delta R.T. -0.01 min

Lab File: BE097992.D

Acq: 19 Oct 2018 15:24

Instrument :

BNA_E

ClientSampleId :

BSS-GW1

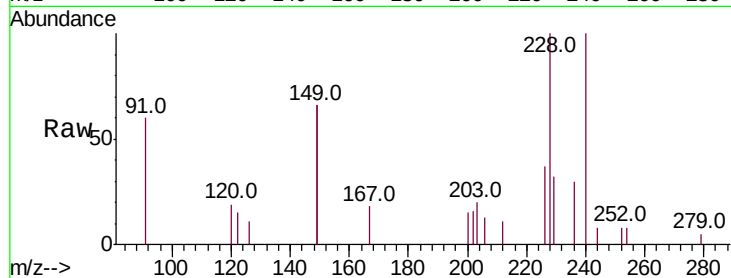
Tot Ion:228 Resp: 10289

Ion Ratio Lower Upper

228 100

226 36.9 24.3 36.5#

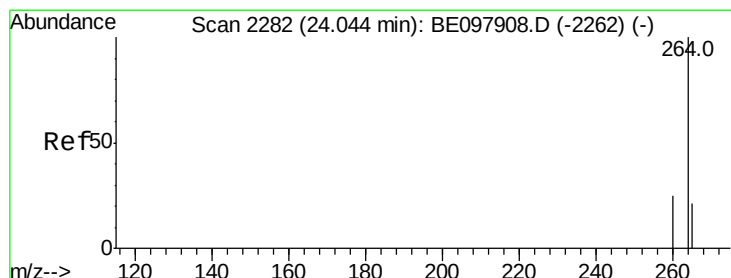
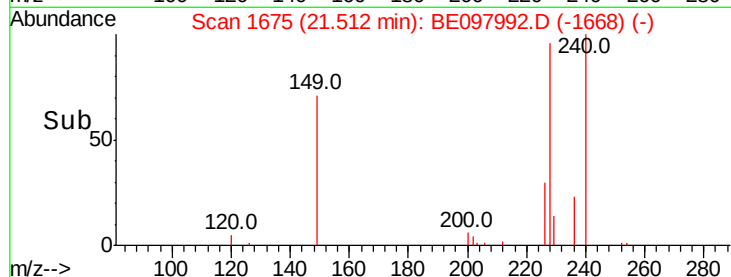
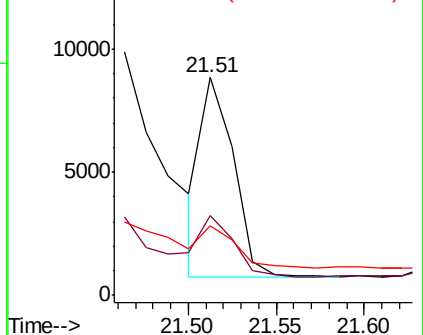
229 31.7 17.3 25.9#



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



#34

Perylene-d12

Concen: 20.000 ng

RT: 24.04 min Scan# 2280

Delta R.T. -0.01 min

Lab File: BE097992.D

Acq: 19 Oct 2018 15:24

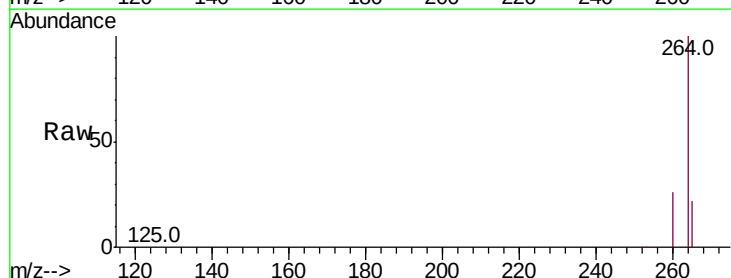
Tgt Ion:264 Resp: 1681895

Ion Ratio Lower Upper

264 100

260 25.8 21.1 31.7

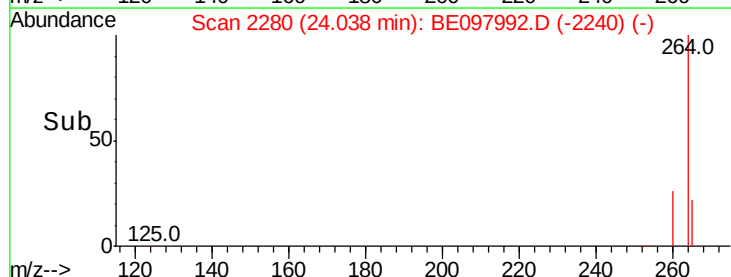
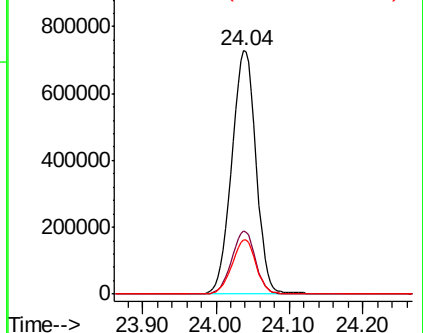
265 22.0 29.2 43.8#

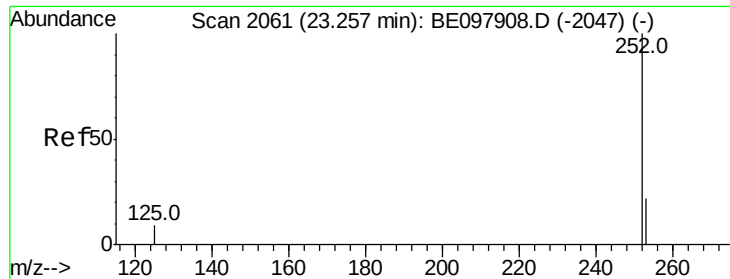


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.174 ng

RT: 23.25 min Scan# 2059

Delta R.T. -0.01 min

Lab File: BE097992.D

Acq: 19 Oct 2018 15:24

Instrument :

BNA_E

ClientSampleId :

BSS-GW1

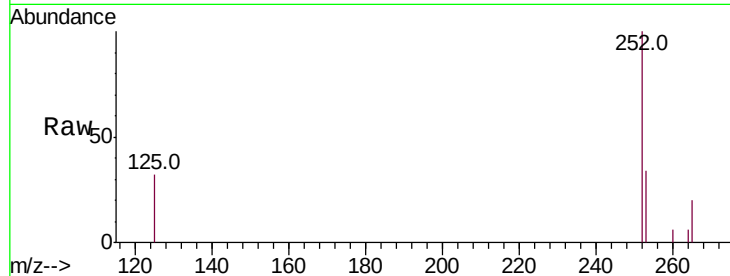
Tot Ion:252 Resp: 16815

Ion Ratio Lower Upper

252 100

253 33.8 20.6 31.0#

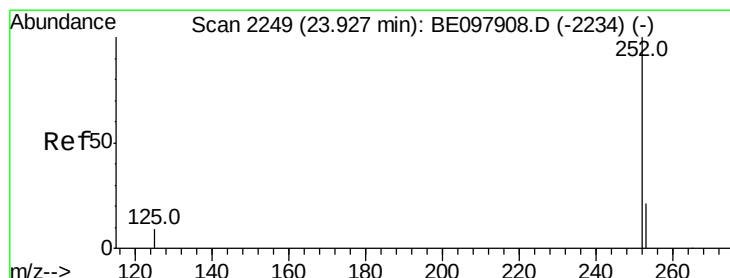
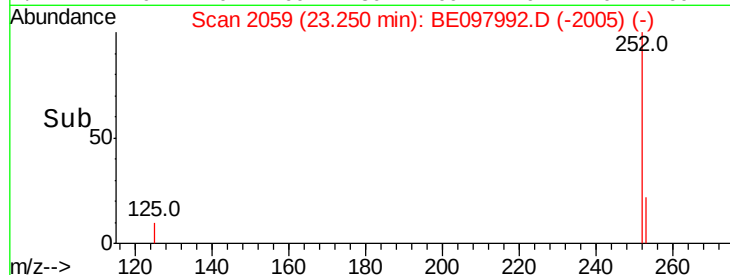
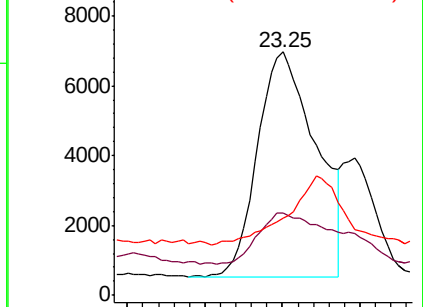
125 31.5 14.3 21.5#



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: 0.121 ng

RT: 23.91 min Scan# 2245

Delta R.T. -0.01 min

Lab File: BE097992.D

Acq: 19 Oct 2018 15:24

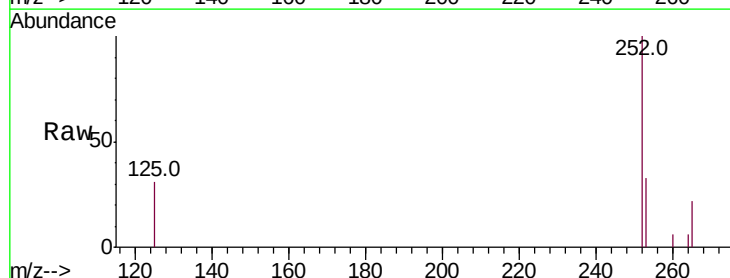
Tgt Ion:252 Resp: 11407

Ion Ratio Lower Upper

252 100

253 33.2 20.6 31.0#

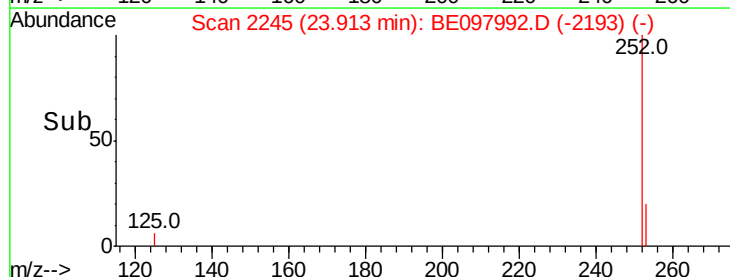
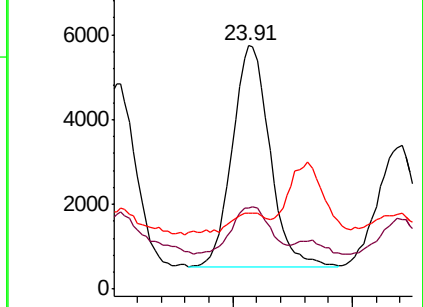
125 31.4 15.6 23.4#

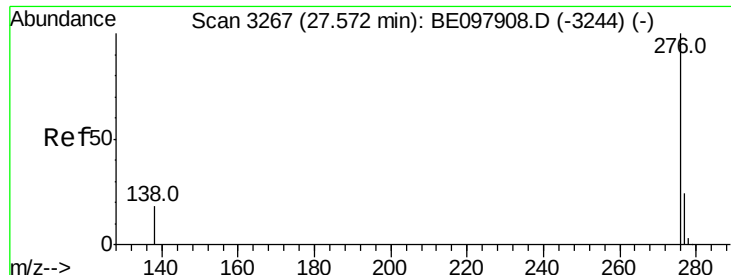


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.095 ng

RT: 27.56 min Scan# 3264

Delta R.T. -0.01 min

Lab File: BE097992.D

Acq: 19 Oct 2018 15:24

Instrument :

BNA_E

ClientSampleId :

BSS-GW1

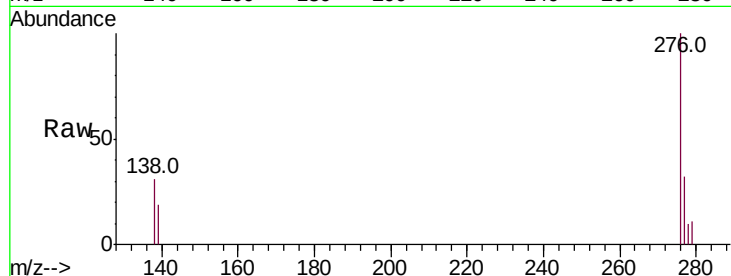
Tot Ion:276 Resp: 8950

Ion Ratio Lower Upper

276 100

277 31.7 22.1 33.1

138 31.0 19.3 28.9#



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

