

Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE100418\
 Data File : BE097722.D
 Acq On : 4 Oct 2018 11:43
 Operator : SJ/JU
 Sample : J4870-05DL 25X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PT-BN-WPDL

Quant Time: Oct 05 06:49:40 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_E\METHODS\8270-SIM-BE100318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 03 12:17:19 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.91	152	4629	0.40	ng	0.01
7) Naphthalene-d8	10.72	136	17123	0.40	ng	0.03
13) Acenaphthene-d10	14.57	164	10222	0.40	ng	0.01
19) Phenanthrene-d10	17.32	188	27488	0.40	ng	0.01
27) Chrysene-d12	21.49	240	39786	0.40	ng	0.00
34) Perylene-d12	24.05	264	36224	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.48	112	51282	4.68	ng	0.01
5) Phenol-d6	7.06	99	82215	4.90	ng	0.01
8) Nitrobenzene-d5	9.05	82	26512	4.77	ng	0.01
11) 2-Methylnaphthalene-d10	12.31	152	22	0.00	ng	0.01
14) 2,4,6-Tribromophenol	16.04	330	9666	5.22	ng	0.00
15) 2-Fluorobiphenyl	13.19	172	139649	3.10	ng	0.00
25) Fluoranthene-d10	19.34	212	168	0.00	ng	0.00
29) Terphenyl-d14	19.94	244	275230	3.39	ng	0.00

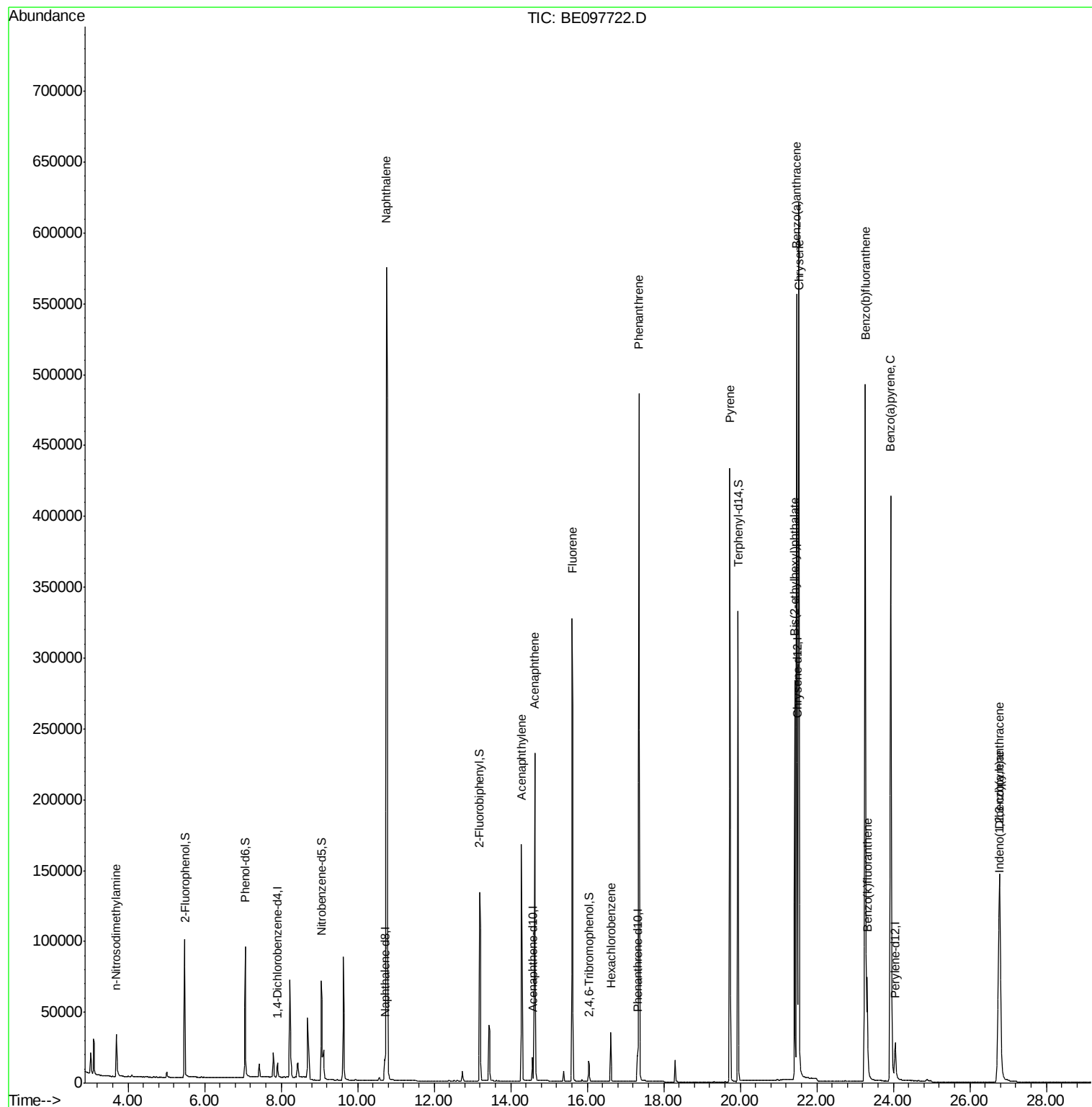
Target Compounds				Qvalue		
3) n-Nitrosodimethylamine	3.70	42	21896	2.610	ng	# 85
9) Naphthalene	10.76	128	997365	5.780	ng	100
16) Acenaphthylene	14.28	152	185597	4.100	ng	99
17) Acenaphthene	14.63	154	110071	3.796	ng	97
18) Fluorene	15.60	166	234383	6.088	ng	100
21) Hexachlorobenzene	16.62	284	28873	1.780	ng	99
23) Phenanthrene	17.35	178	493249	6.963	ng	100
28) Pyrene	19.73	202	394037	3.898	ng	100
30) Benzo(a)anthracene	21.47	228	476122	4.451	ng	98
31) Chrysene	21.53	228	666526	5.574	ng	98
32) Bis(2-ethylhexyl)phthalate	21.43	149	303865	3.884	ng	100
33) Indeno(1,2,3-cd)pyrene	26.75	276	199887	1.925	ng	96
35) Benzo(b)fluoranthene	23.26	252	716721	7.209	ng	99
36) Benzo(k)fluoranthene	23.32	252	110132	0.999	ng	99
37) Benzo(a)pyrene	23.93	252	689672	7.663	ng	99
38) Dibenzo(a,h)anthracene	26.78	278	253698	2.862	ng	98

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

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.91 min Scan# 438

Delta R.T. 0.01 min

Lab File: BE097722.D

Acq: 4 Oct 2018 11:43

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

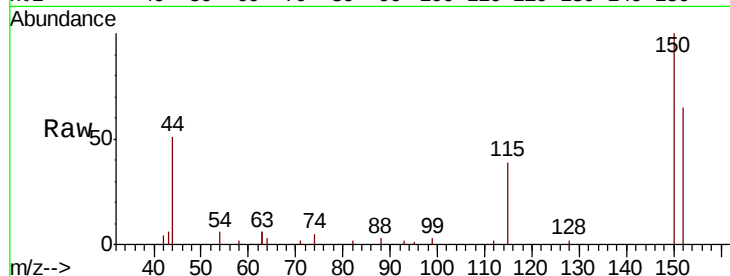
Tgt Ion:152 Resp: 4629

Ion Ratio Lower Upper

152 100

150 154.0 120.9 181.3

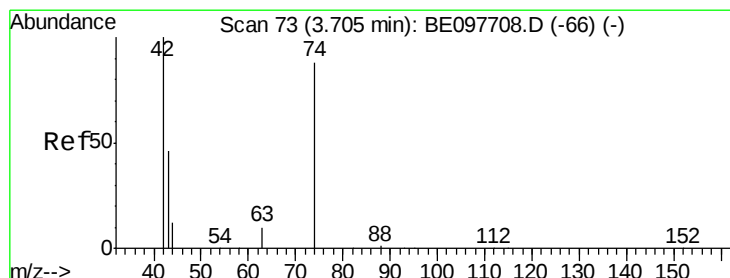
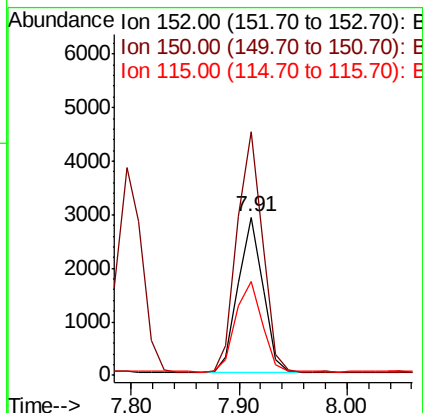
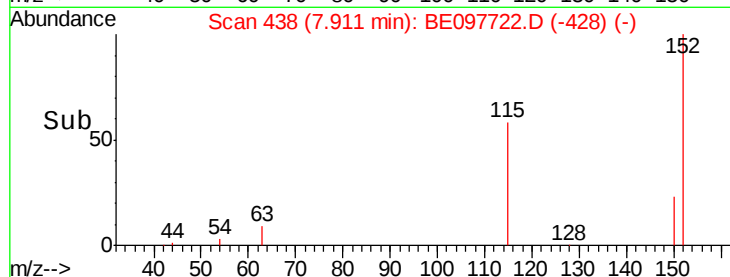
115 59.4 46.6 69.8



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#3

n-Nitrosodimethylamine

Concen: 2.610 ng

RT: 3.70 min Scan# 72

Delta R.T. -0.01 min

Lab File: BE097722.D

Acq: 4 Oct 2018 11:43

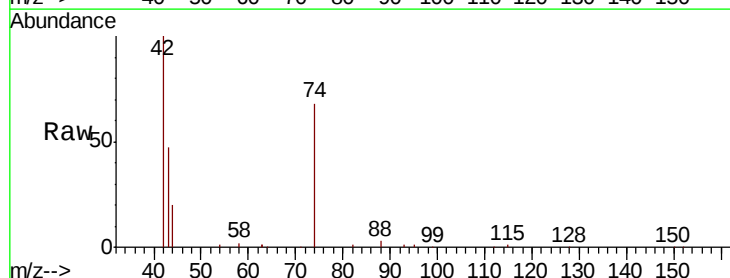
Tgt Ion: 42 Resp: 21896

Ion Ratio Lower Upper

42 100

74 100.1 70.7 106.1

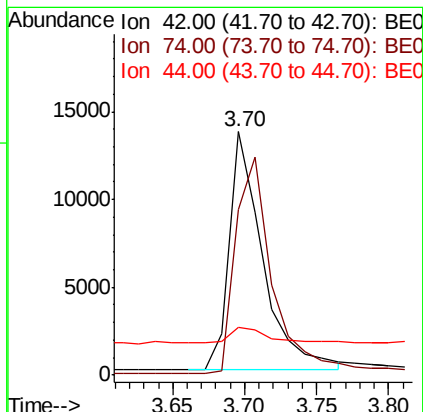
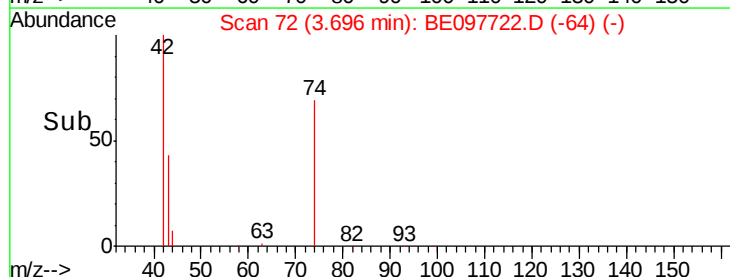
44 7.7 15.0 22.4#

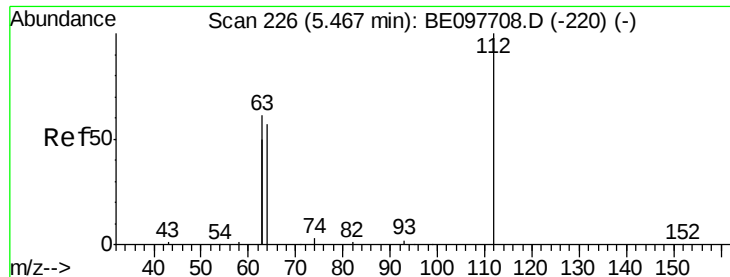


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0





#4

2-Fluorophenol

Concen: 4.683 ng

RT: 5.48 min Scan# 227

Delta R.T. 0.01 min

Lab File: BE097722.D

Acq: 4 Oct 2018 11:43

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

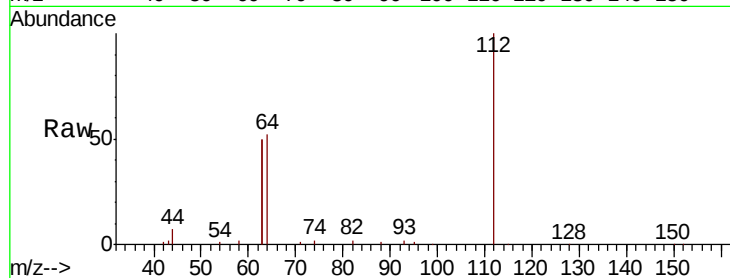
Tgt Ion: 112 Resp: 51282

Ion Ratio Lower Upper

112 100

64 70.1 56.6 84.8

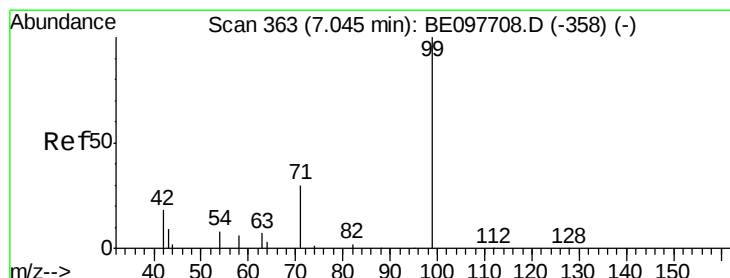
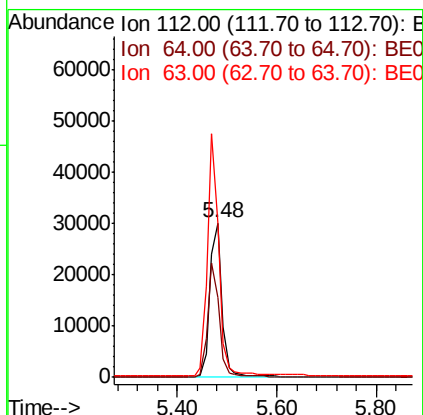
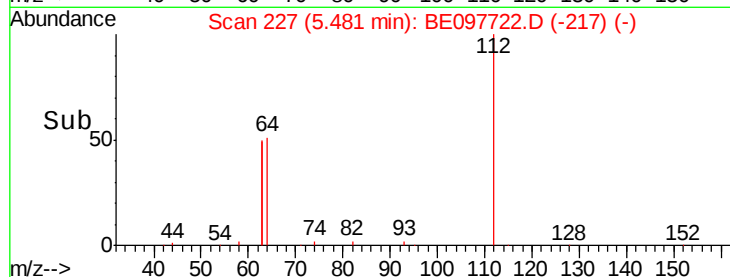
63 145.9 119.4 179.0



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: 4.898 ng

RT: 7.06 min Scan# 364

Delta R.T. 0.01 min

Lab File: BE097722.D

Acq: 4 Oct 2018 11:43

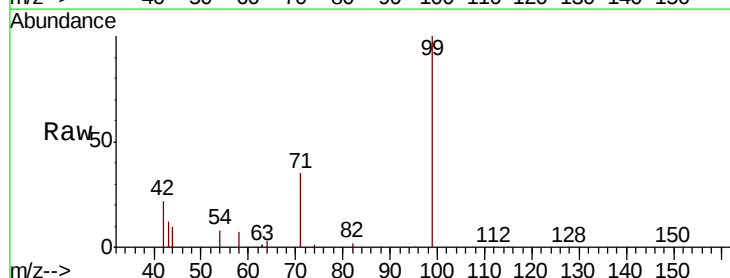
Tgt Ion: 99 Resp: 82215

Ion Ratio Lower Upper

99 100

42 23.4 19.9 29.9

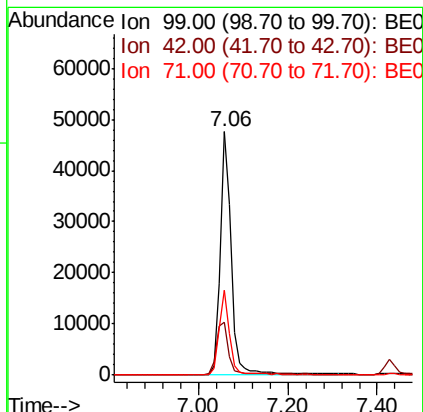
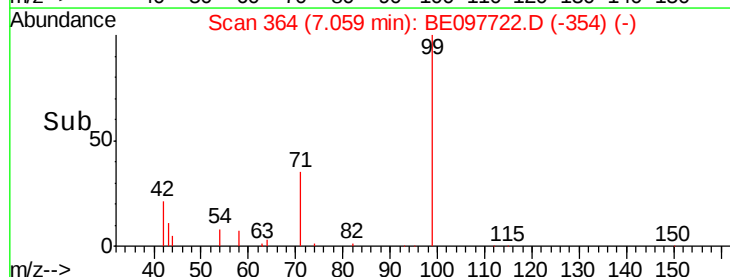
71 32.7 25.4 38.2

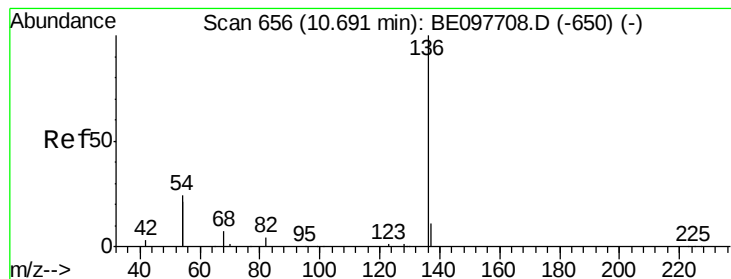


Abundance Ion 99.00 (98.70 to 99.70): BE0

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: 10.72 min Scan# 658

Delta R.T. 0.03 min

Lab File: BE097722.D

Acq: 4 Oct 2018 11:43

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

Tgt Ion: 136 Resp: 17123

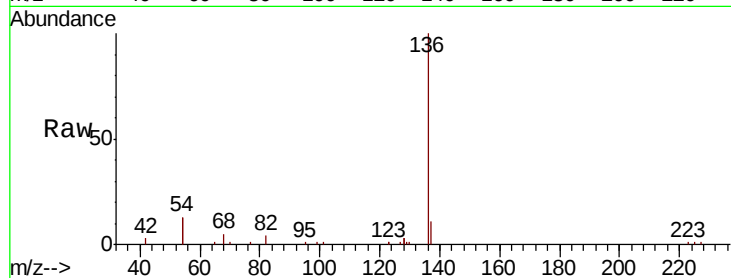
Ion Ratio Lower Upper

136 100

137 11.0 9.0 13.4

54 25.2 37.8 56.6#

68 4.9 6.4 9.6#

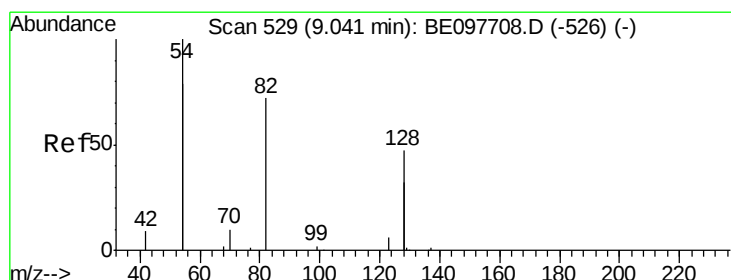
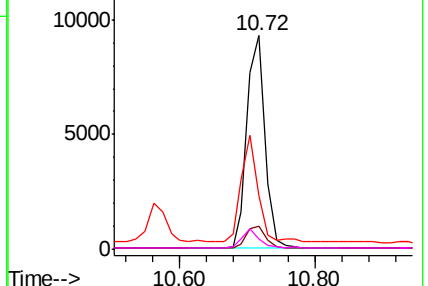
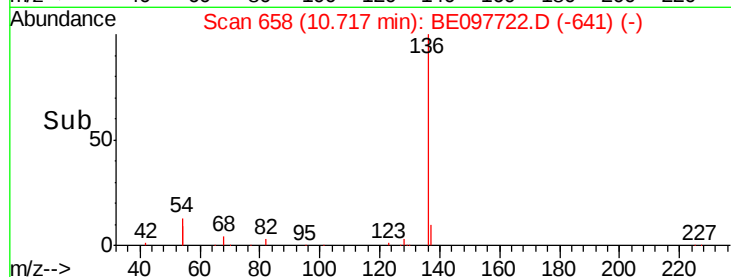


Abundance Ion 136.00 (135.70 to 136.70): E

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: 4.769 ng

RT: 9.05 min Scan# 530

Delta R.T. 0.01 min

Lab File: BE097722.D

Acq: 4 Oct 2018 11:43

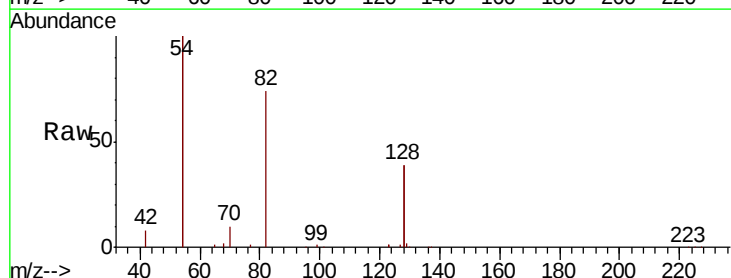
Tgt Ion: 82 Resp: 26512

Ion Ratio Lower Upper

82 100

128 105.1 97.0 145.4

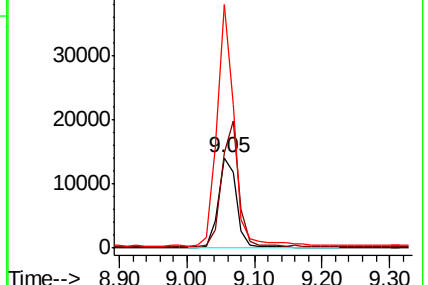
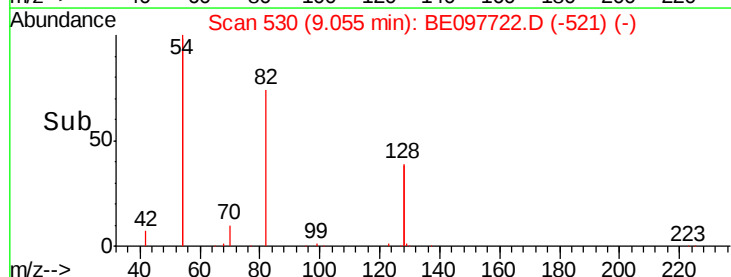
54 269.2 206.9 310.3

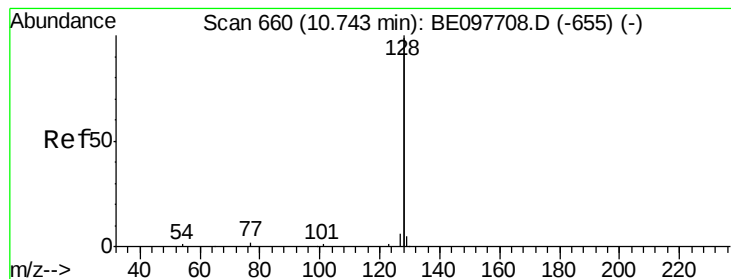


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 5.780 ng

RT: 10.76 min Scan# 661

Delta R.T. 0.01 min

Lab File: BE097722.D

Acq: 4 Oct 2018 11:43

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

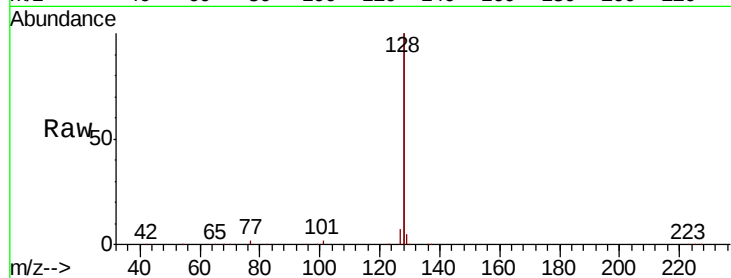
Tgt Ion:128 Resp: 997365

Ion Ratio Lower Upper

128 100

129 2.7 2.2 3.2

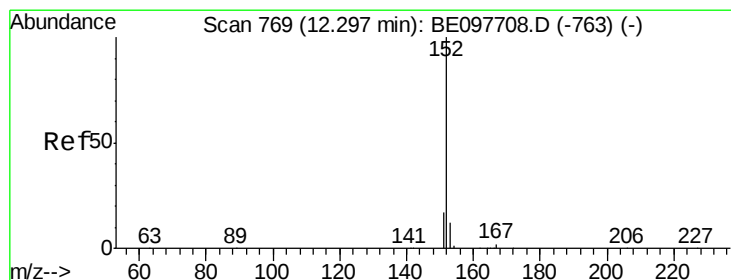
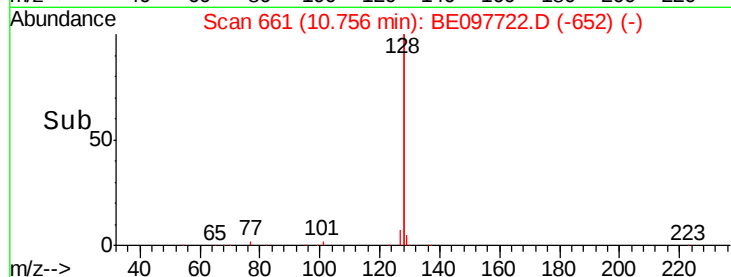
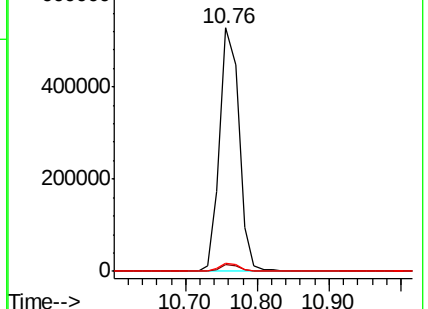
127 3.4 2.7 4.1



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: 0.001 ng

RT: 12.31 min Scan# 770

Delta R.T. 0.01 min

Lab File: BE097722.D

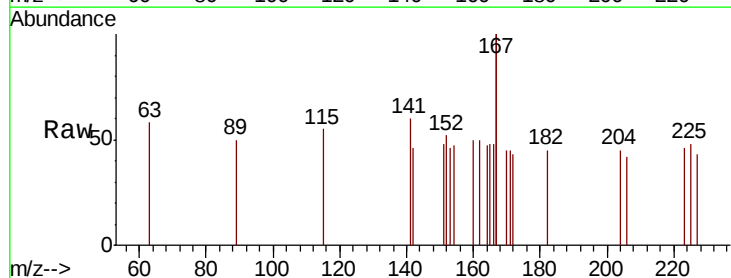
Acq: 4 Oct 2018 11:43

Tgt Ion:152 Resp: 22

Ion Ratio Lower Upper

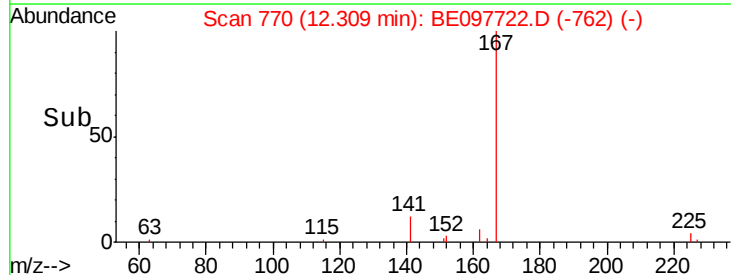
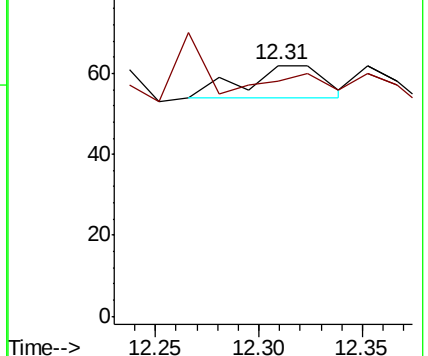
152 100

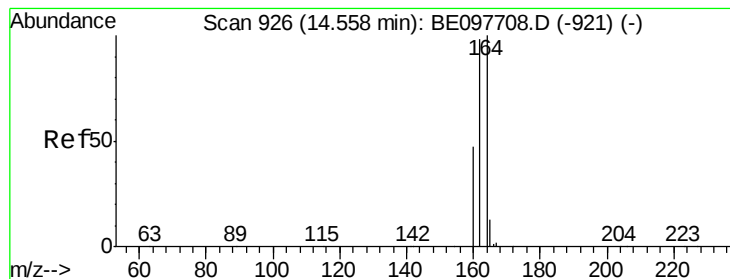
151 81.8 15.4 23.2#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.57 min Scan# 927

Delta R.T. 0.01 min

Lab File: BE097722.D

Acq: 4 Oct 2018 11:43

Instrument :

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ClientSampleId :

PT-BN-WPDL

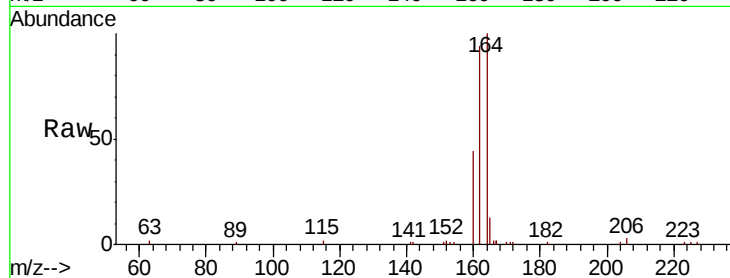
Tgt Ion:164 Resp: 10222

Ion Ratio Lower Upper

164 100

162 93.7 78.6 117.8

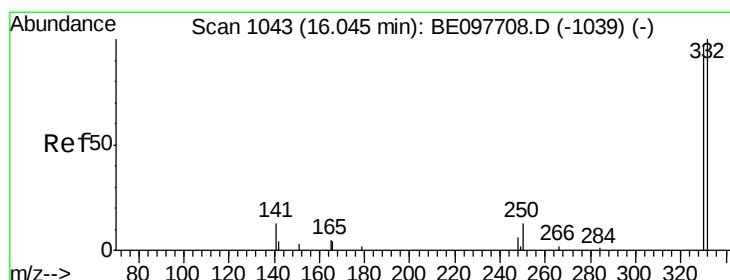
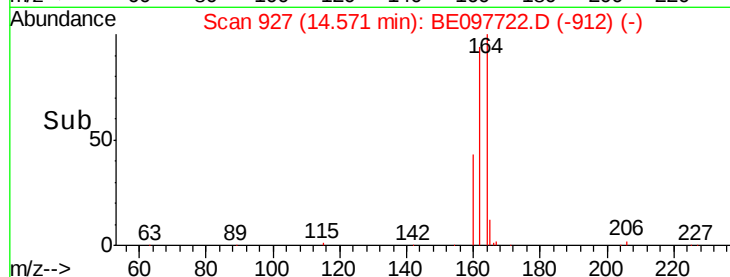
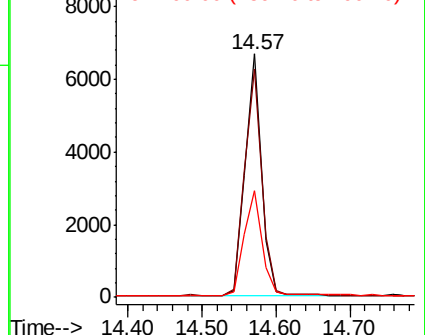
160 43.6 37.8 56.6



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: 5.217 ng

RT: 16.04 min Scan# 1043

Delta R.T. 0.00 min

Lab File: BE097722.D

Acq: 4 Oct 2018 11:43

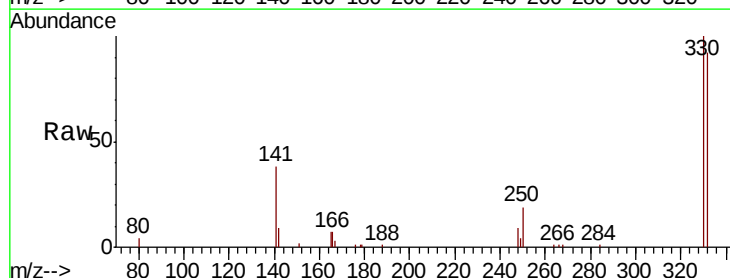
Tgt Ion:330 Resp: 9666

Ion Ratio Lower Upper

330 100

332 95.2 83.5 125.3

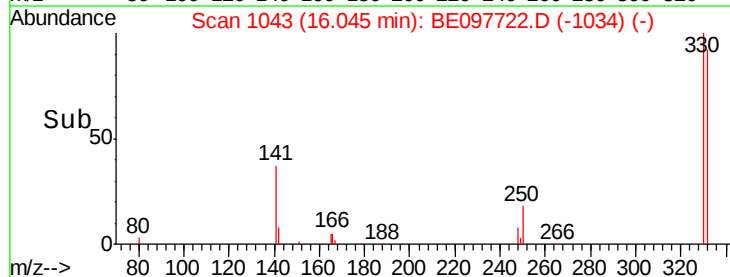
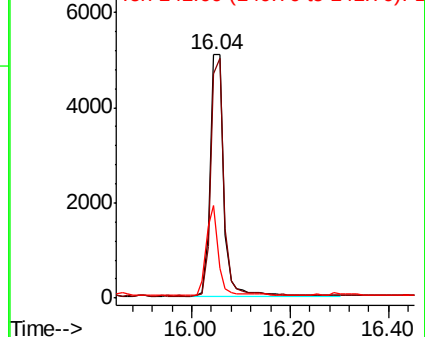
141 33.0 34.9 52.3#

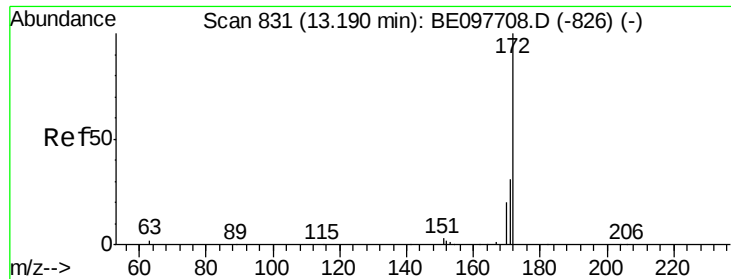


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

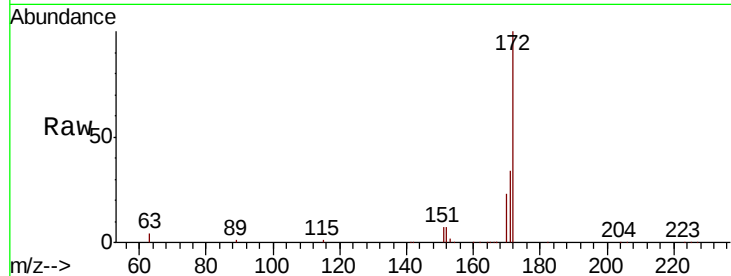




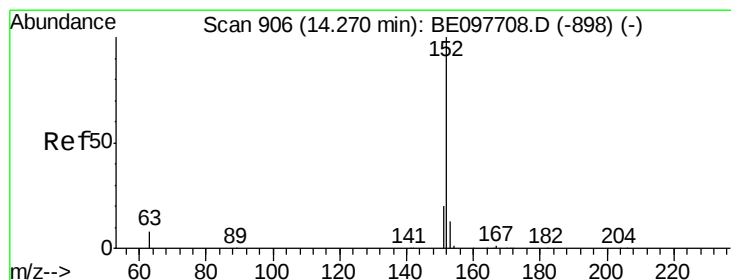
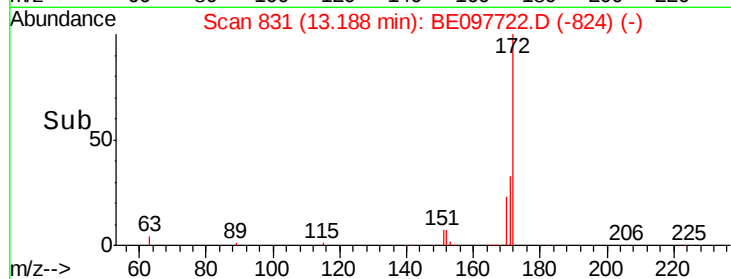
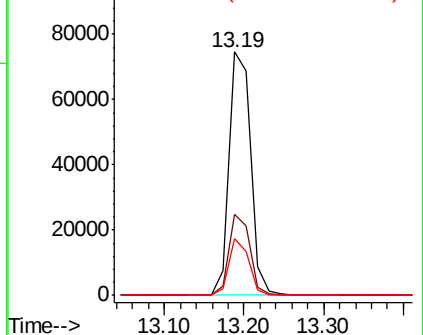
#15
2-Fluorobiphenyl
Concen: 3.103 ng
RT: 13.19 min Scan# 831
Delta R.T. -0.00 min
Lab File: BE097722.D
Acq: 4 Oct 2018 11:43

Instrument :
BNA_E
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PT-BN-WPDL

Tgt Ion:172 Resp: 139649
Ion Ratio Lower Upper
172 100
171 33.5 25.2 37.8
170 23.2 16.2 24.2

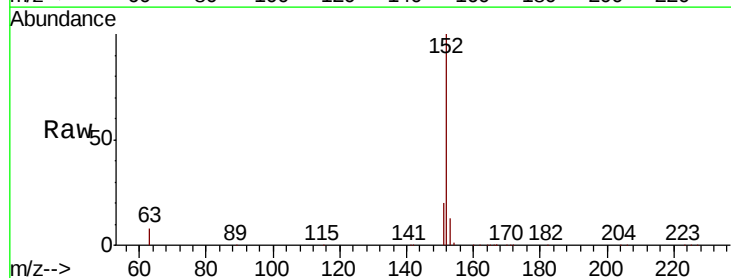


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

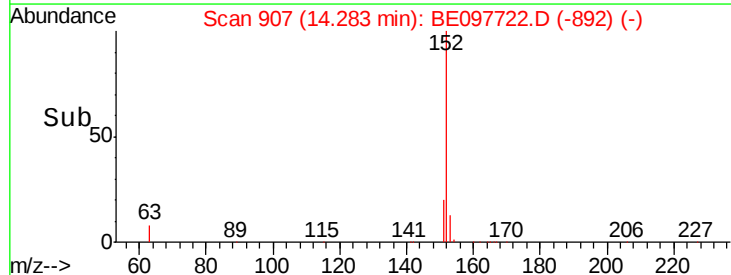
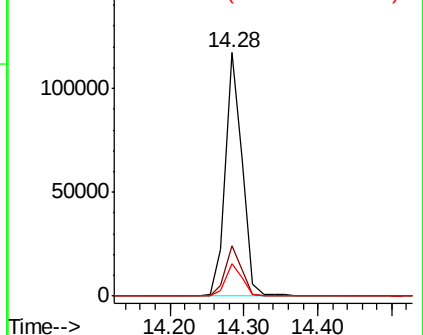


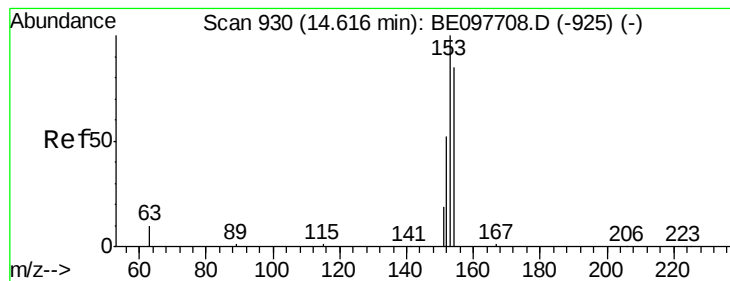
#16
Acenaphthylene
Concen: 4.100 ng
RT: 14.28 min Scan# 907
Delta R.T. 0.01 min
Lab File: BE097722.D
Acq: 4 Oct 2018 11:43

Tgt Ion:152 Resp: 185597
Ion Ratio Lower Upper
152 100
151 19.9 15.3 22.9
153 13.3 10.8 16.2



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





#17

Acenaphthene

Concen: 3.796 ng

RT: 14.63 min Scan# 931

Delta R.T. 0.01 min

Lab File: BE097722.D

Acq: 4 Oct 2018 11:43

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

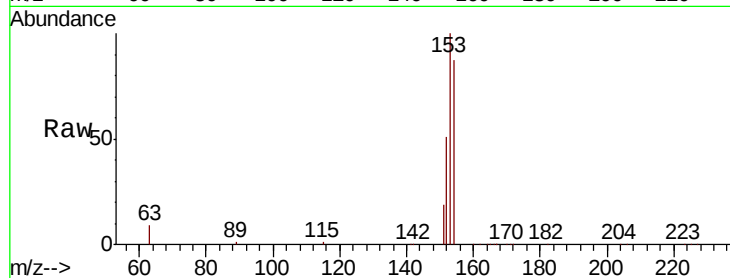
Tgt Ion:154 Resp: 110071

Ion Ratio Lower Upper

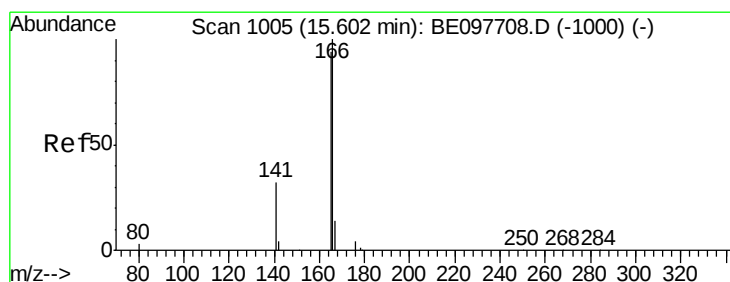
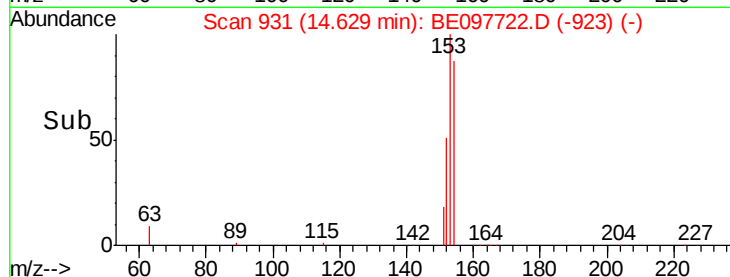
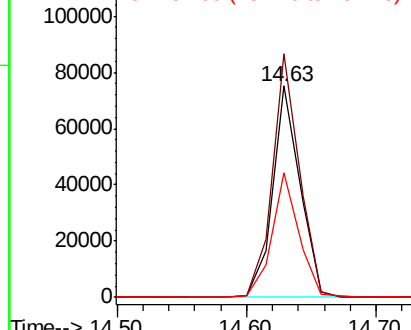
154 100

153 114.4 93.3 139.9

152 57.9 48.9 73.3



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: 6.088 ng

RT: 15.60 min Scan# 1005

Delta R.T. 0.00 min

Lab File: BE097722.D

Acq: 4 Oct 2018 11:43

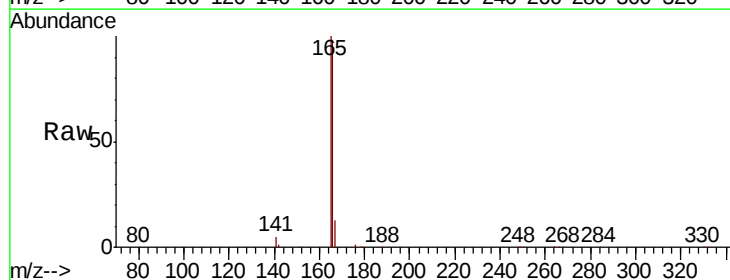
Tgt Ion:166 Resp: 234383

Ion Ratio Lower Upper

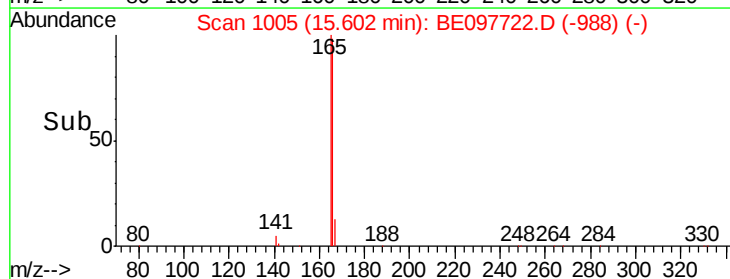
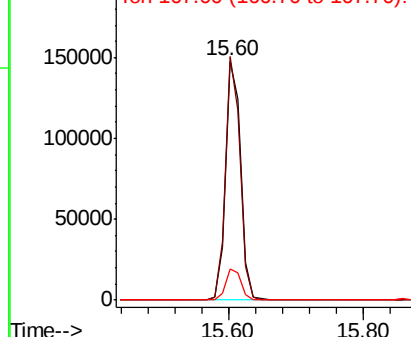
166 100

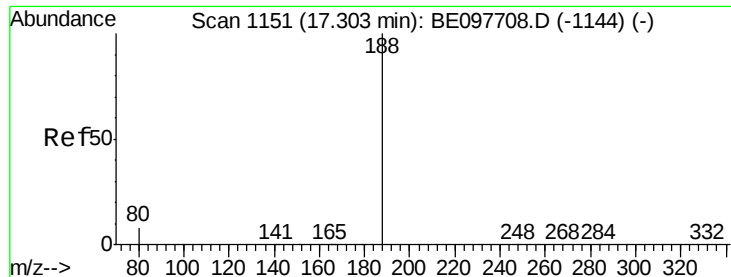
165 98.6 79.0 118.4

167 13.4 11.1 16.7



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: 0.400 ng

RT: 17.32 min Scan# 1152

Delta R.T. 0.01 min

Lab File: BE097722.D

Acq: 4 Oct 2018 11:43

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

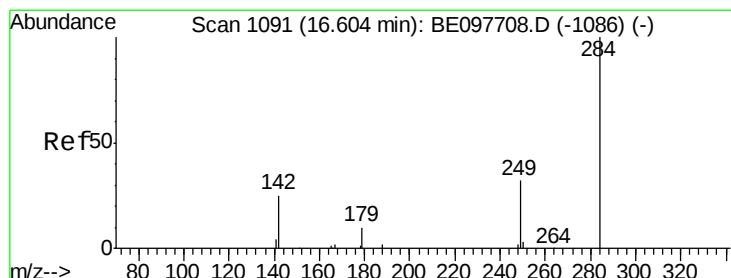
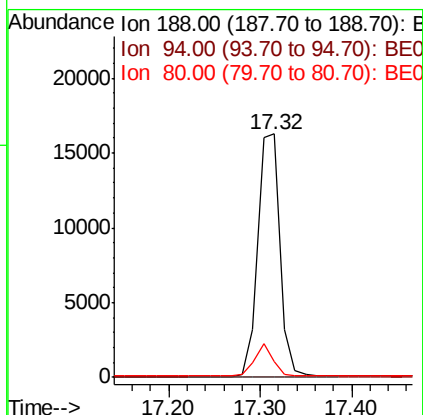
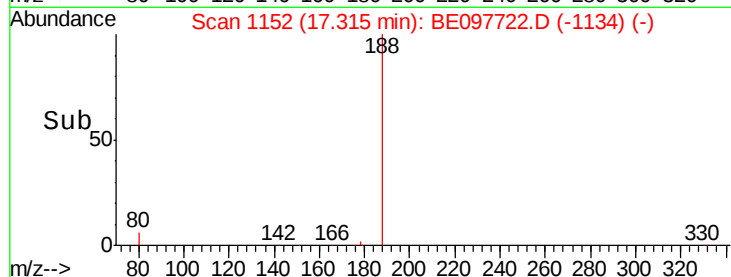
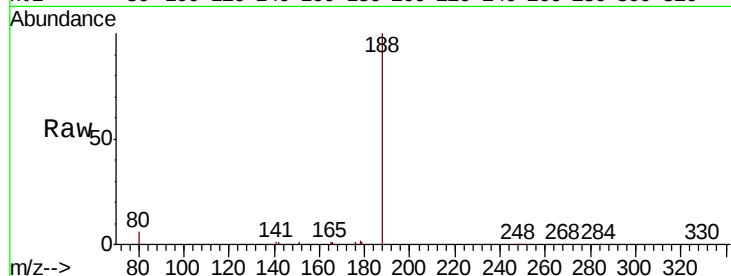
Tgt Ion:188 Resp: 27488

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 6.3 6.6 9.8#



#21

Hexachlorobenzene

Concen: 1.780 ng

RT: 16.62 min Scan# 1092

Delta R.T. 0.01 min

Lab File: BE097722.D

Acq: 4 Oct 2018 11:43

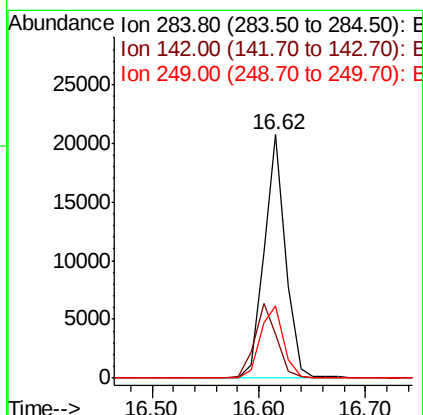
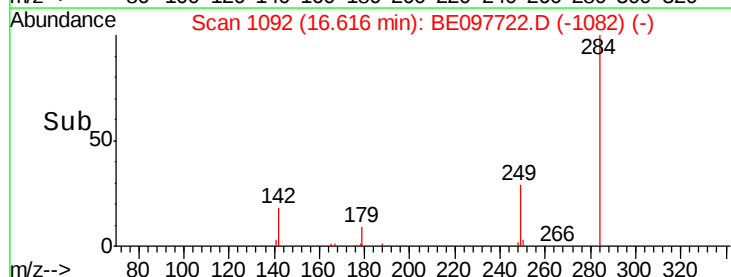
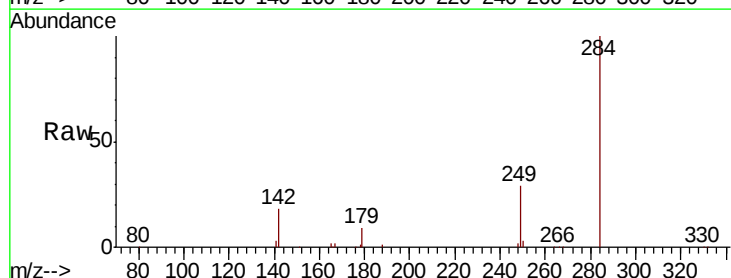
Tgt Ion:284 Resp: 28873

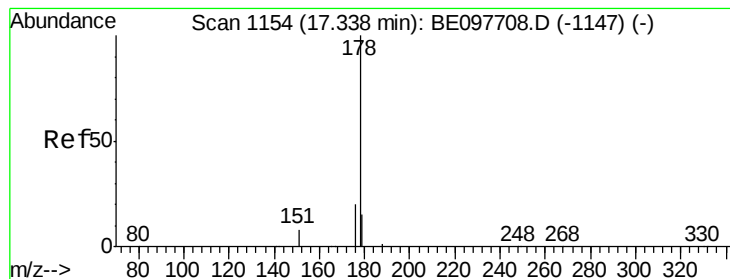
Ion Ratio Lower Upper

284 100

142 31.0 24.9 37.3

249 31.7 25.8 38.8





#23

Phenanthrene

Concen: 6.963 ng

RT: 17.35 min Scan# 1155

Delta R.T. 0.01 min

Lab File: BE097722.D

Acq: 4 Oct 2018 11:43

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

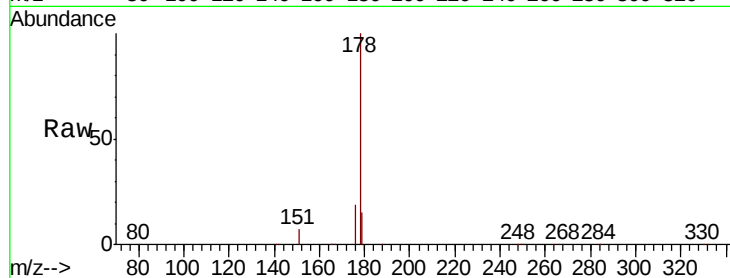
Tgt Ion:178 Resp: 493249

Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.2

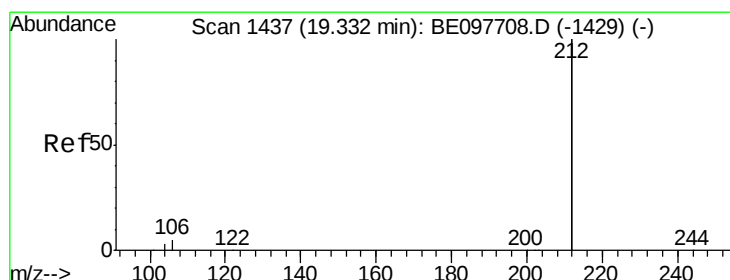
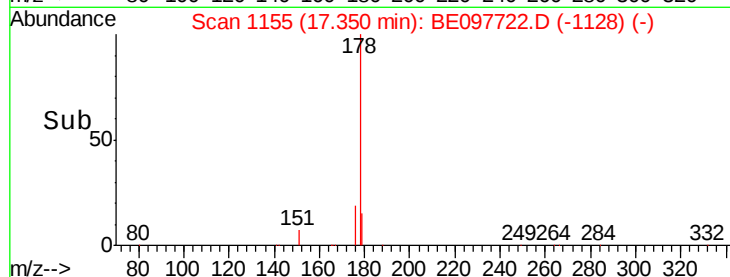
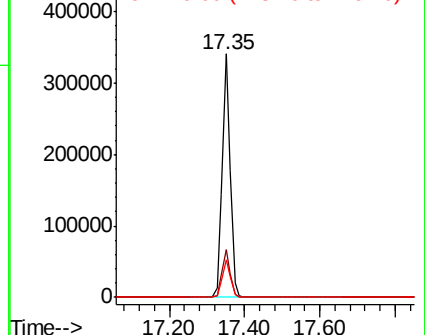
179 15.5 12.2 18.4



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



#25

Fluoranthene-d10

Concen: 0.000 ng

RT: 19.34 min Scan# 1438

Delta R.T. 0.01 min

Lab File: BE097722.D

Acq: 4 Oct 2018 11:43

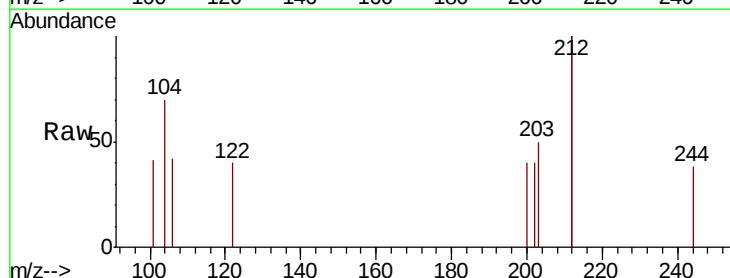
Tgt Ion:212 Resp: 168

Ion Ratio Lower Upper

212 100

106 0.0 2.2 3.2#

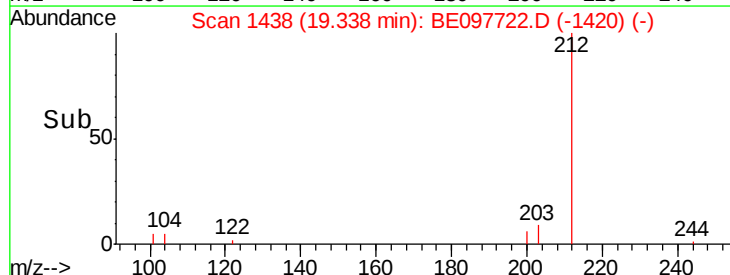
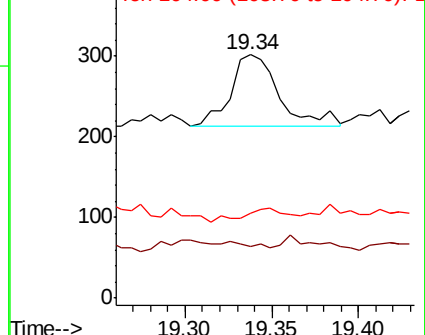
104 0.0 1.2 1.8#

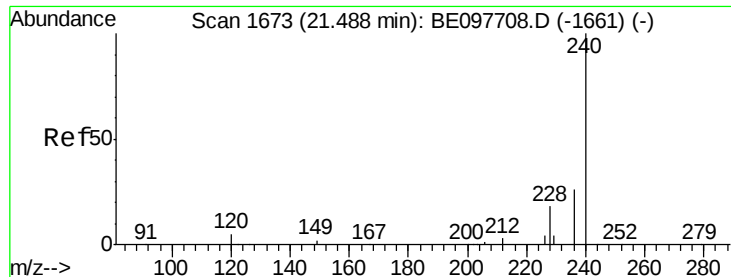


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.49 min Scan# 1673

Delta R.T. -0.00 min

Lab File: BE097722.D

Acq: 4 Oct 2018 11:43

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

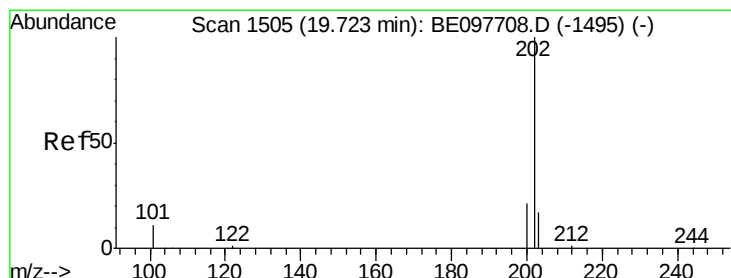
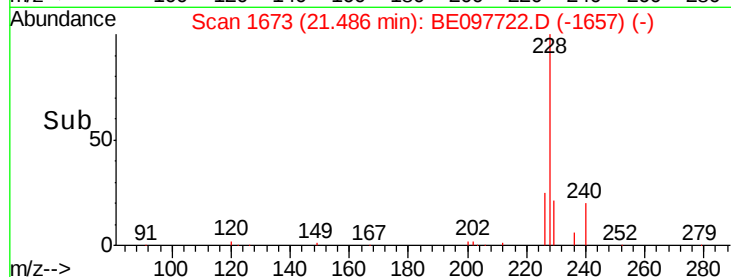
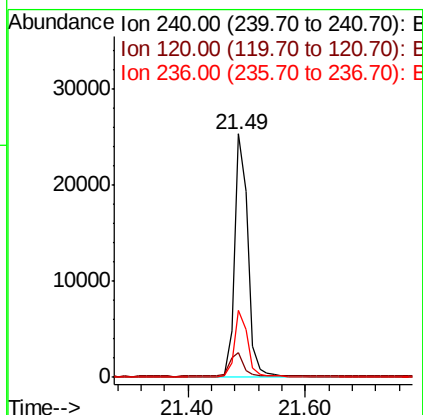
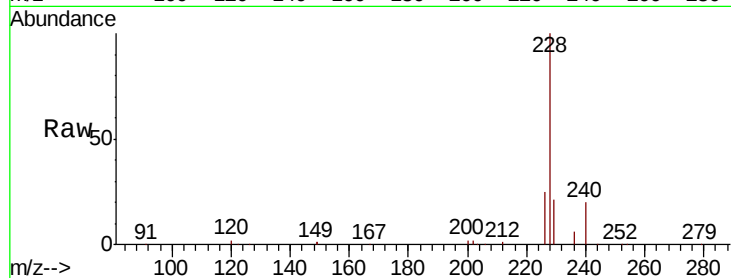
Tgt Ion:240 Resp: 39786

Ion Ratio Lower Upper

240 100

120 10.1 4.7 7.1#

236 27.5 20.8 31.2



#28

Pyrene

Concen: 3.898 ng

RT: 19.73 min Scan# 1506

Delta R.T. 0.01 min

Lab File: BE097722.D

Acq: 4 Oct 2018 11:43

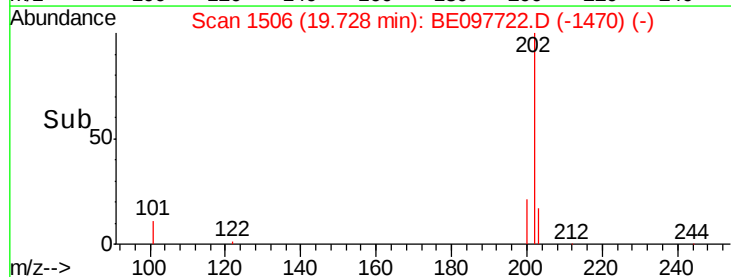
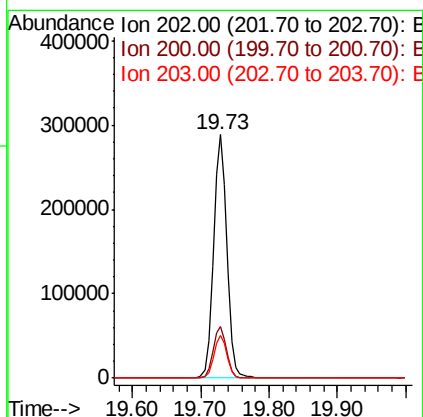
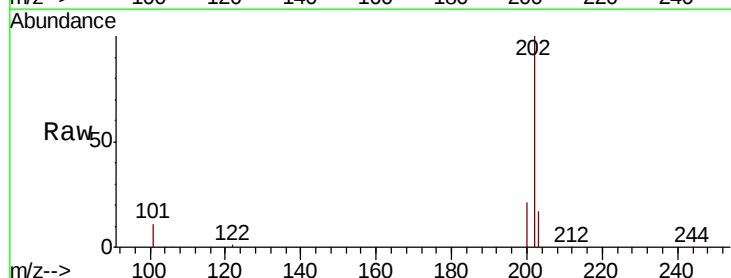
Tgt Ion:202 Resp: 394037

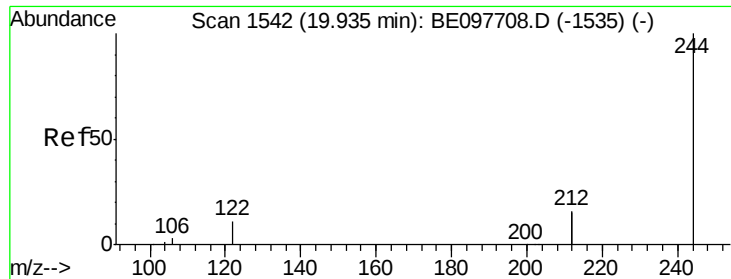
Ion Ratio Lower Upper

202 100

200 21.2 16.7 25.1

203 17.4 13.9 20.9





#29

Terphenyl-d14

Concen: 3.388 ng

RT: 19.94 min Scan# 1543

Delta R.T. 0.01 min

Lab File: BE097722.D

Acq: 4 Oct 2018 11:43

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

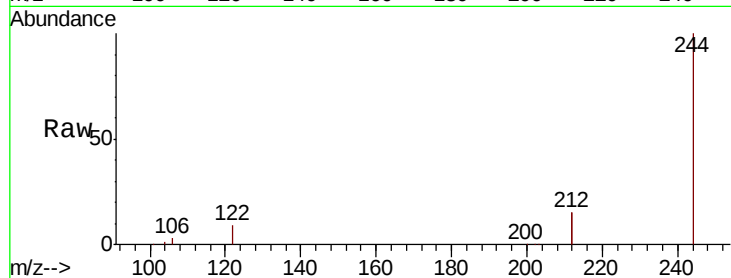
Tgt Ion:244 Resp: 275230

Ion Ratio Lower Upper

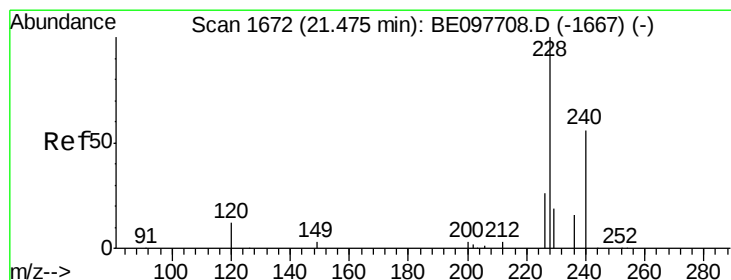
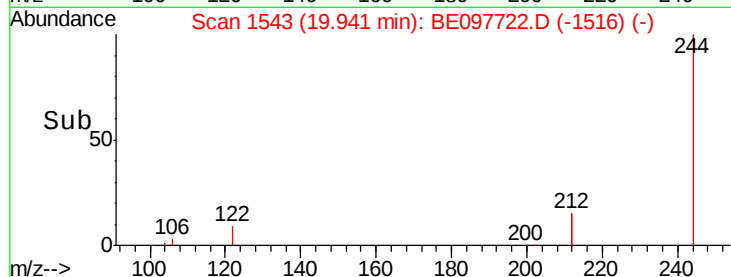
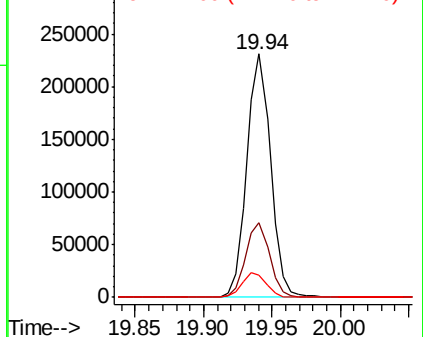
244 100

212 30.4 25.8 38.8

122 9.1 8.7 13.1



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: 4.451 ng

RT: 21.47 min Scan# 1672

Delta R.T. -0.00 min

Lab File: BE097722.D

Acq: 4 Oct 2018 11:43

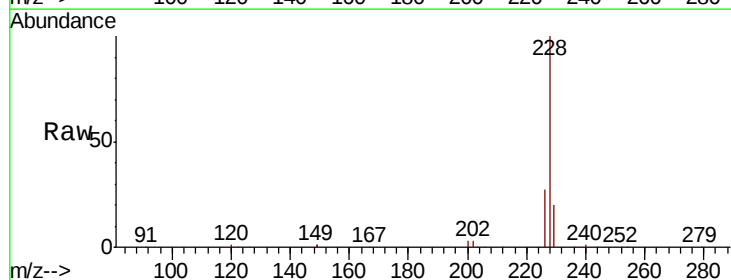
Tgt Ion:228 Resp: 476122

Ion Ratio Lower Upper

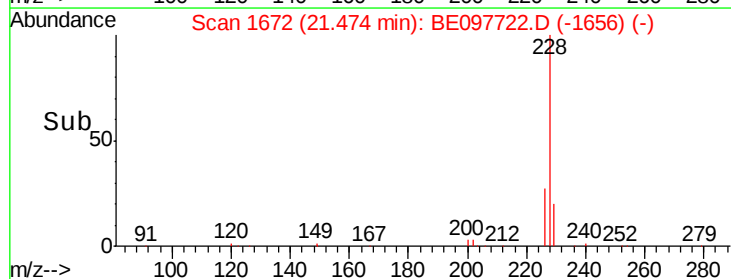
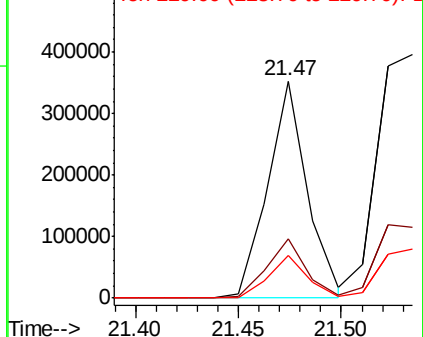
228 100

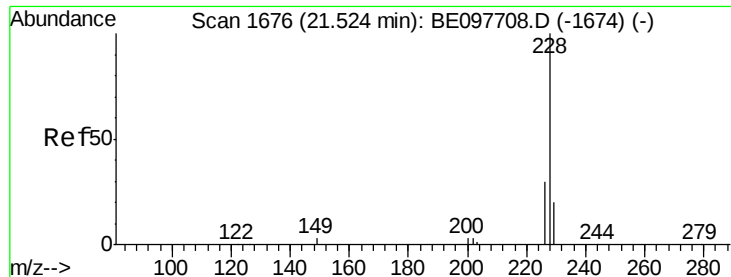
226 27.1 20.7 31.1

229 19.9 15.7 23.5



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: 5.574 ng

RT: 21.53 min Scan# 1677

Delta R.T. 0.01 min

Lab File: BE097722.D

Acq: 4 Oct 2018 11:43

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

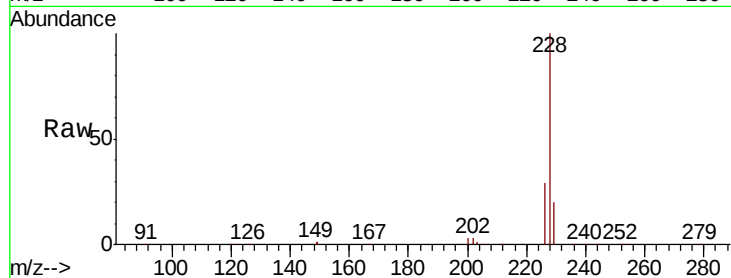
Tgt Ion:228 Resp: 666526

Ion Ratio Lower Upper

228 100

226 28.9 24.3 36.5

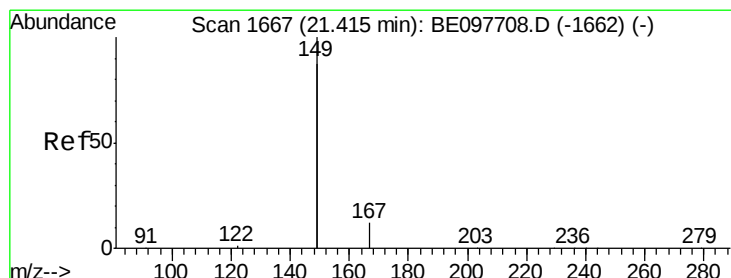
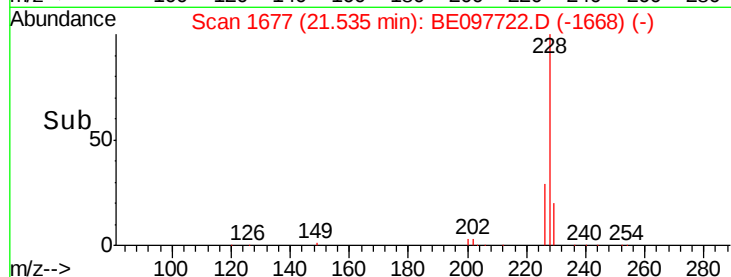
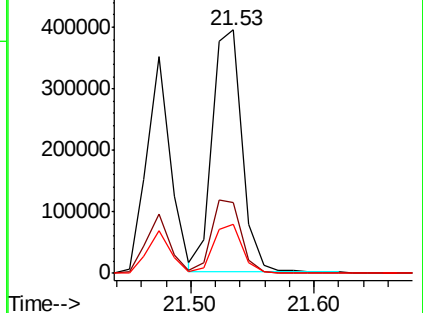
229 20.3 16.0 24.0



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: 3.884 ng

RT: 21.43 min Scan# 1668

Delta R.T. 0.01 min

Lab File: BE097722.D

Acq: 4 Oct 2018 11:43

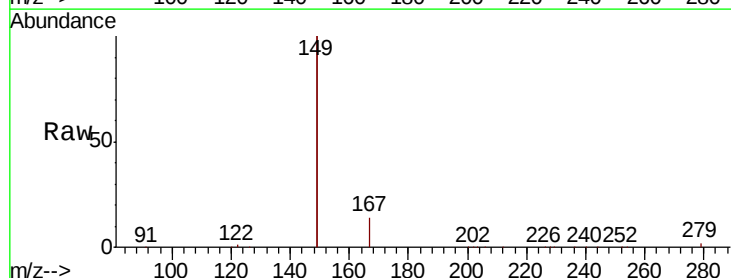
Tgt Ion:149 Resp: 303865

Ion Ratio Lower Upper

149 100

167 6.7 5.5 8.3

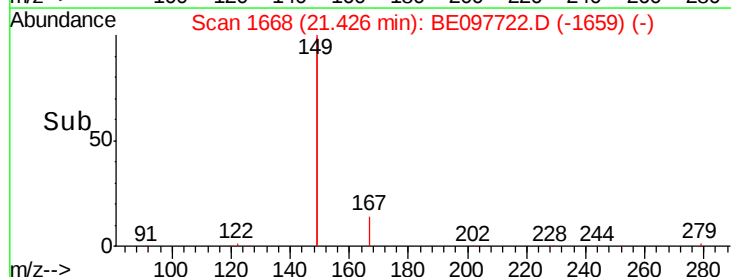
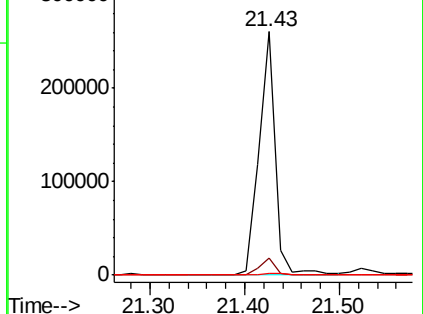
279 1.0 0.9 1.3

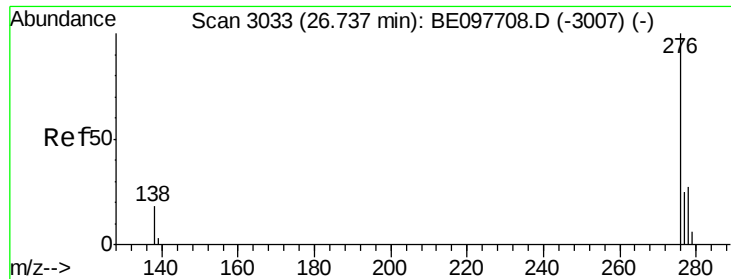


Abundance Ion 149.00 (148.70 to 149.70): E

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: 1.925 ng

RT: 26.75 min Scan# 3037

Delta R.T. 0.01 min

Lab File: BE097722.D

Acq: 4 Oct 2018 11:43

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

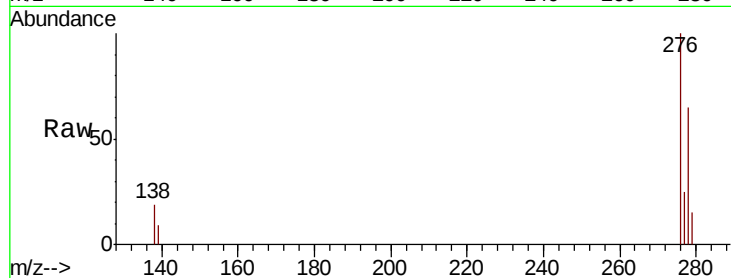
Tgt Ion:276 Resp: 199887

Ion Ratio Lower Upper

276 100

138 21.7 15.0 22.6

277 25.4 19.2 28.8

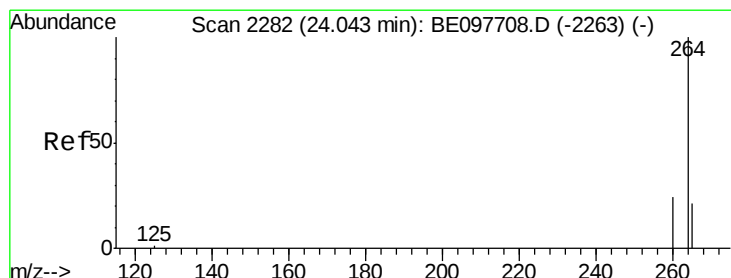
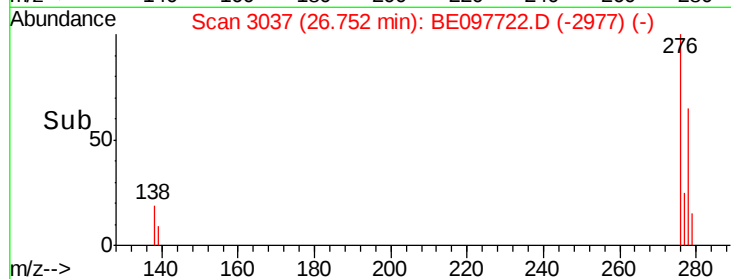
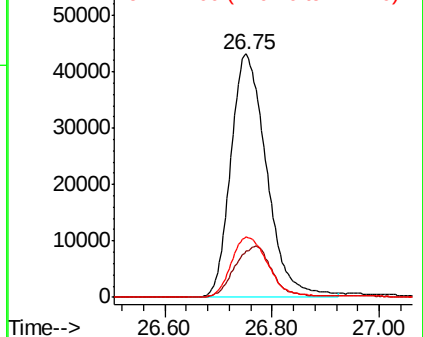


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#34

Perylene-d12

Concen: 0.400 ng

RT: 24.05 min Scan# 2283

Delta R.T. 0.00 min

Lab File: BE097722.D

Acq: 4 Oct 2018 11:43

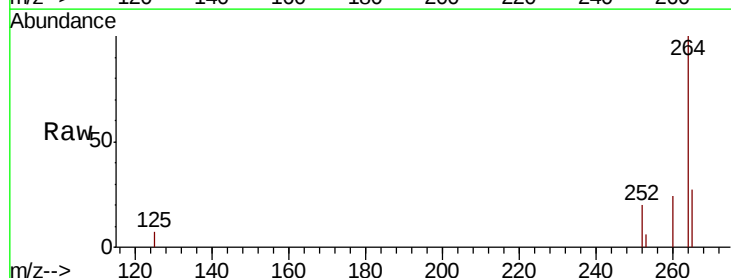
Tgt Ion:264 Resp: 36224

Ion Ratio Lower Upper

264 100

260 24.4 19.1 28.7

265 27.3 21.9 32.9

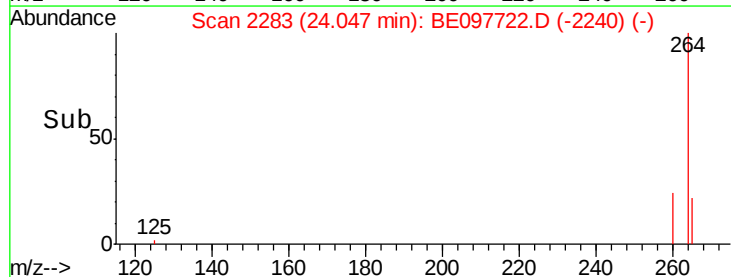
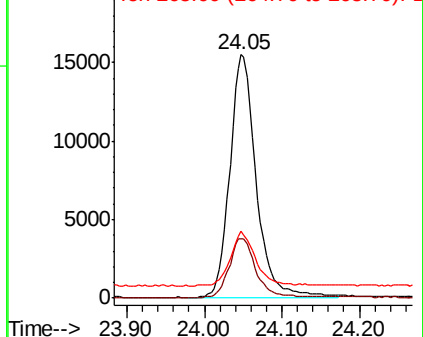


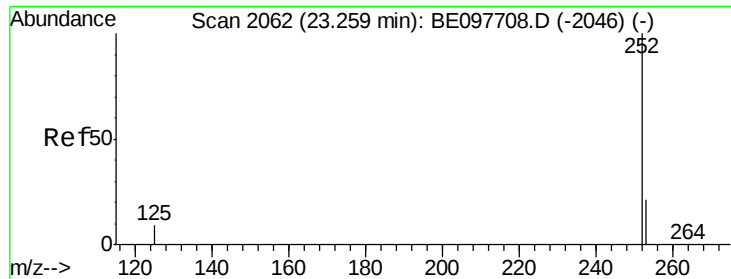
Abundance

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

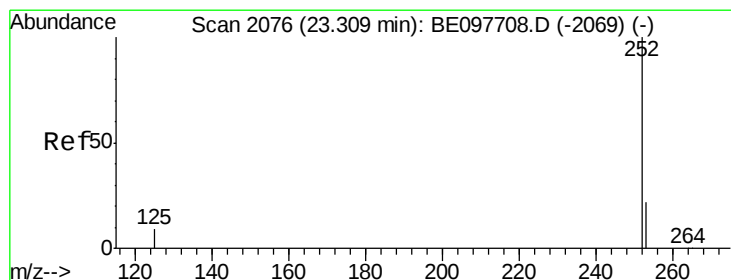
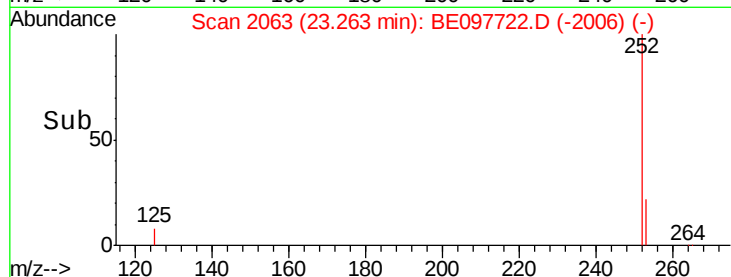
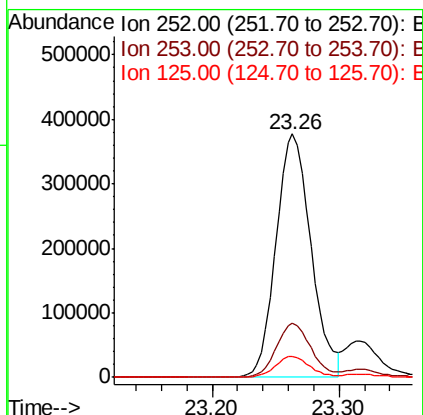
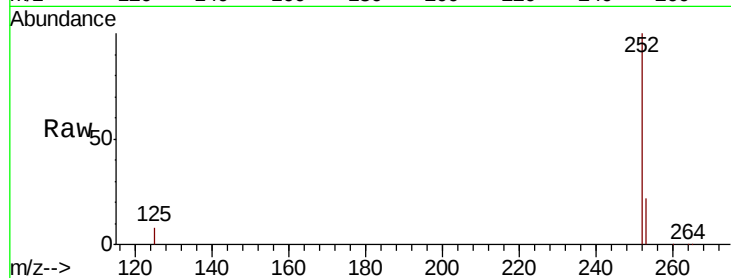




#35
Benzo(b)fluoranthene
Concen: 7.209 ng
RT: 23.26 min Scan# 2063
Delta R.T. 0.00 min
Lab File: BE097722.D
Acq: 4 Oct 2018 11:43

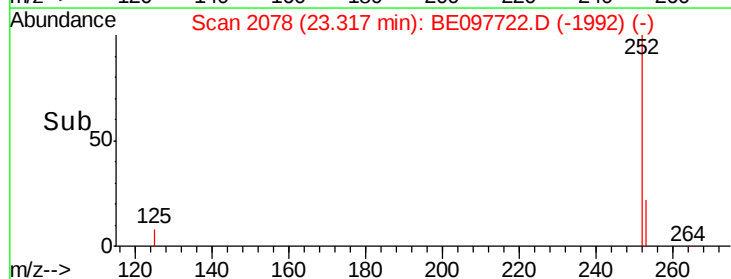
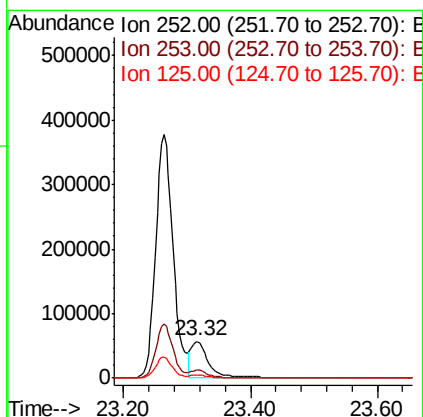
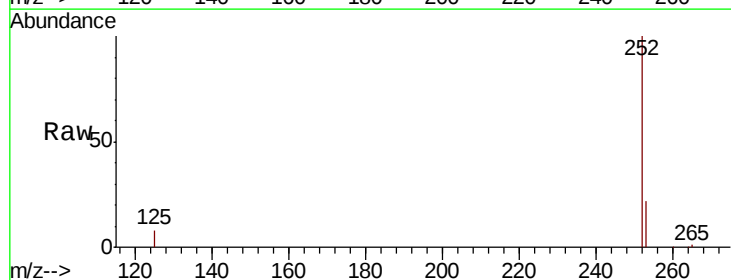
Instrument :
BNA_E
ClientSampleId :
PT-BN-WPDL

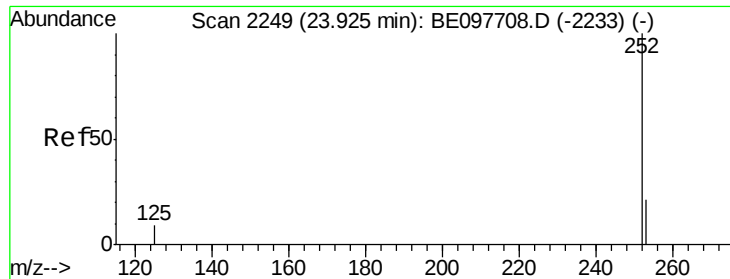
Tgt Ion: 252 Resp: 716721
Ion Ratio Lower Upper
252 100
253 22.0 17.5 26.3
125 8.3 7.8 11.8



#36
Benzo(k)fluoranthene
Concen: 0.999 ng
RT: 23.32 min Scan# 2078
Delta R.T. 0.01 min
Lab File: BE097722.D
Acq: 4 Oct 2018 11:43

Tgt Ion: 252 Resp: 110132
Ion Ratio Lower Upper
252 100
253 21.7 17.5 26.3
125 8.3 7.5 11.3





#37

Benzo(a)pyrene

Concen: 7.663 ng

RT: 23.93 min Scan# 2250

Delta R.T. 0.00 min

Lab File: BE097722.D

Acq: 4 Oct 2018 11:43

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

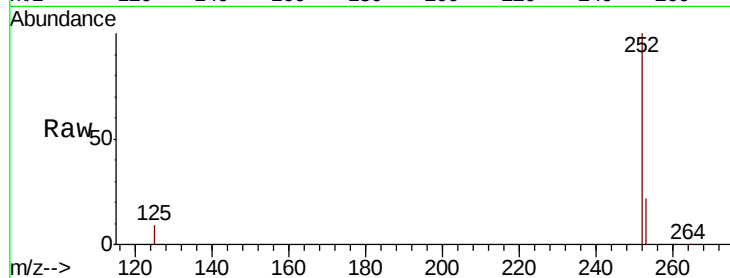
Tgt Ion: 252 Resp: 689672

Ion Ratio Lower Upper

252 100

253 21.9 17.7 26.5

125 9.4 8.3 12.5

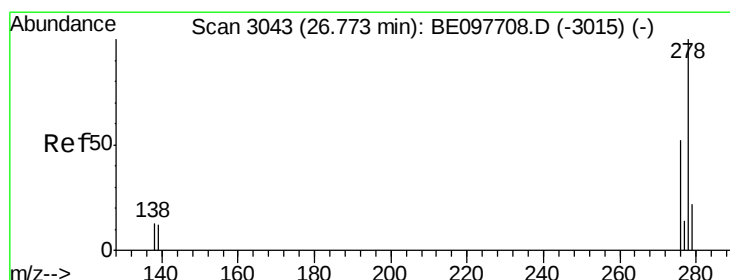
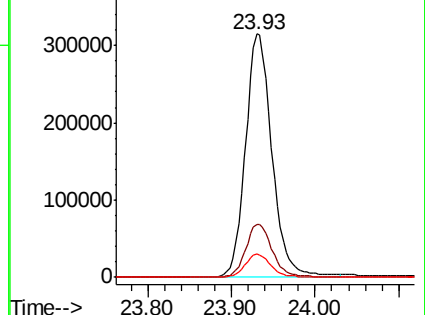
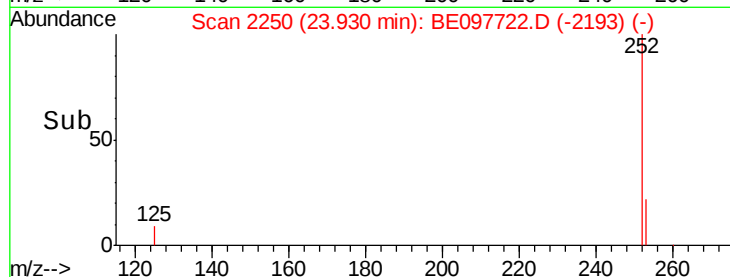


Abundance

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



#38

Dibenzo(a,h)anthracene

Concen: 2.862 ng

RT: 26.78 min Scan# 3045

Delta R.T. 0.01 min

Lab File: BE097722.D

Acq: 4 Oct 2018 11:43

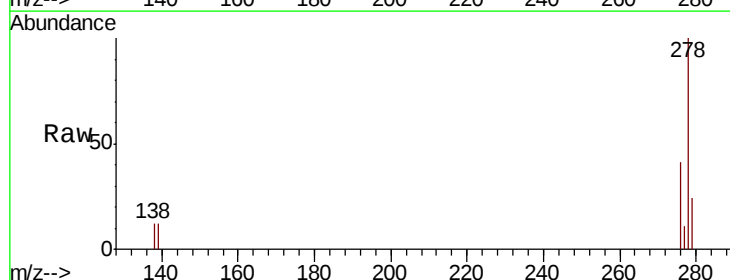
Tgt Ion: 278 Resp: 253698

Ion Ratio Lower Upper

278 100

139 12.3 10.3 15.5

279 24.1 18.4 27.6



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

