

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE010219\
 Data File : BE098608.D
 Acq On : 2 Jan 2019 15:16
 Operator : SJ/JU
 Sample : PB116077BSD
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Jan 02 17:35:02 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE121018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 02 10:30:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.81	152	1081	0.40	ng	0.00
7) Naphthalene-d8	10.60	136	4459	0.40	ng	0.00
13) Acenaphthene-d10	14.48	164	2527	0.40	ng	0.02
19) Phenanthrene-d10	17.22	188	5466	0.40	ng	0.00
27) Chrysene-d12	21.41	240	5832	0.40	ng	0.00
34) Perylene-d12	23.93	264	6875	0.40	ng	-0.03

System Monitoring Compounds						
4) 2-Fluorophenol	5.40	112	826	0.33	ng	0.01
5) Phenol-d6	7.00	99	1065	0.30	ng	0.01
8) Nitrobenzene-d5	8.96	82	1047	0.26	ng	0.00
11) 2-Methylnaphthalene-d10	12.21	152	1986	0.27	ng	0.00
14) 2,4,6-Tribromophenol	15.97	330	215	0.23	ng	0.01
15) 2-Fluorobiphenyl	13.10	172	2529	0.24	ng	0.02
25) Fluoranthene-d10	19.26	212	16273	0.23	ng	0.01
29) Terphenyl-d14	19.85	244	3085	0.22	ng	0.00

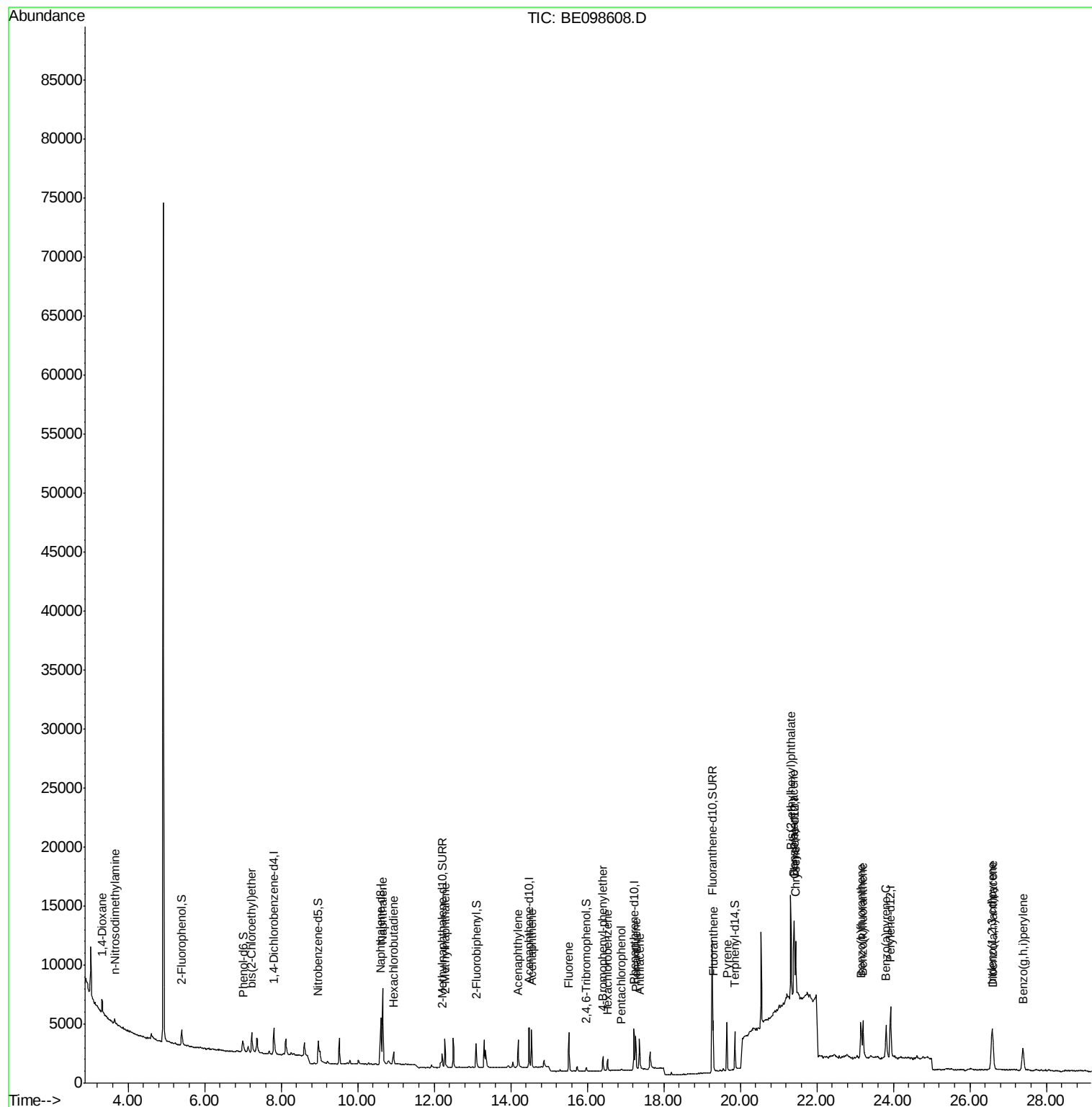
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.33	88	667	0.357	ng	# 73
3) n-Nitrosodimethylamine	3.65	42	487	0.289	ng	# 100
6) bis(2-Chloroethyl)ether	7.23	93	697	0.205	ng	96
9) Naphthalene	10.65	128	10822	0.241	ng	100
10) Hexachlorobutadiene	10.94	225	712	0.249	ng	95
12) 2-Methylnaphthalene	12.28	142	1736	0.238	ng	95
16) Acenaphthylene	14.20	152	2762	0.233	ng	99
17) Acenaphthene	14.54	154	1582	0.222	ng	97
18) Fluorene	15.52	166	2043	0.215	ng	97
20) 4-Bromophenyl-phenylether	16.42	248	664	0.226	ng	92
21) Hexachlorobenzene	16.53	284	750	0.237	ng	# 93
22) Pentachlorophenol	16.90	266	107	0.229	ng	93
23) Phenanthrene	17.27	178	3131	0.236	ng	99
24) Anthracene	17.36	178	2850	0.241	ng	100
26) Fluoranthene	19.29	202	3896	0.222	ng	95
28) Pyrene	19.65	202	3926	0.215	ng	98
30) Benzo(a)anthracene	21.40	228	4157	0.250	ng	# 87
31) Chrysene	21.45	228	4063	0.234	ng	# 90
32) Bis(2-ethylhexyl)phthalate	21.32	149	10033	0.297	ng	# 99
33) Indeno(1,2,3-cd)pyrene	26.57	276	5641	0.326	ng	# 87
35) Benzo(b)fluoranthene	23.15	252	4509	0.240	ng	# 60
36) Benzo(k)fluoranthene	23.21	252	4466	0.204	ng	# 54
37) Benzo(a)pyrene	23.81	252	4649	0.240	ng	# 54
38) Dibenzo(a,h)anthracene	26.60	278	4677	0.256	ng	# 74
39) Benzo(g,h,i)perylene	27.39	276	4772	0.259	ng	# 88

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

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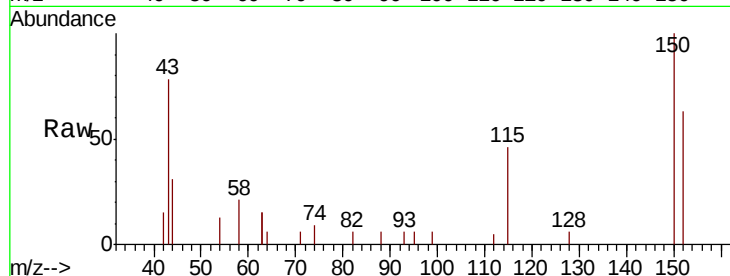


#1

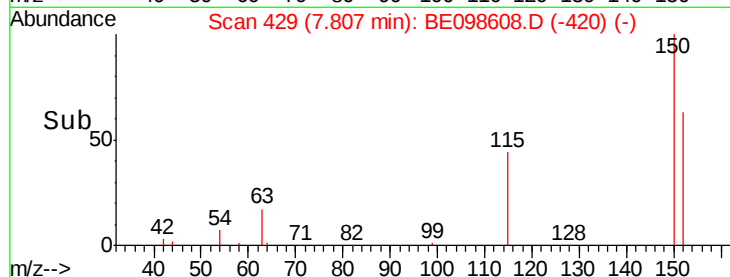
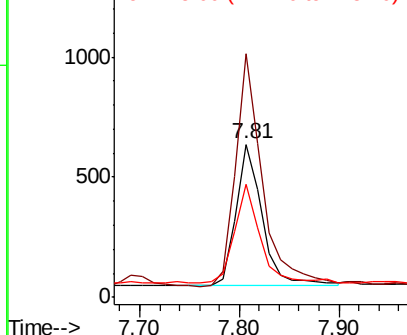
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.81 min Scan# 429
Delta R.T. 0.00 min
Lab File: BE098608.D
Acq: 2 Jan 2019 15:16

Instrument :
BNA_E
ClientSampled :

Tot Ion:152 Resp: 1081
Ion Ratio Lower Upper
152 100
150 159.3 124.2 186.4
115 73.9 53.9 80.9



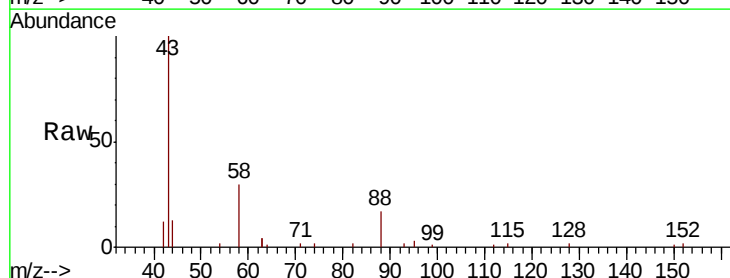
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



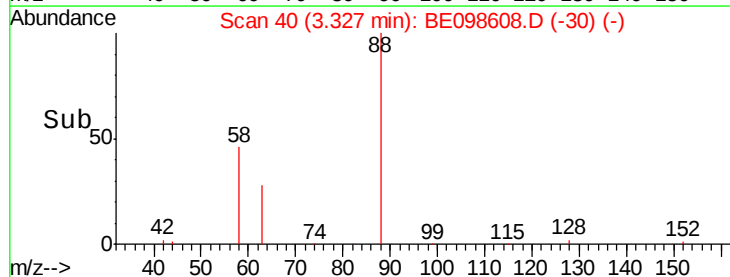
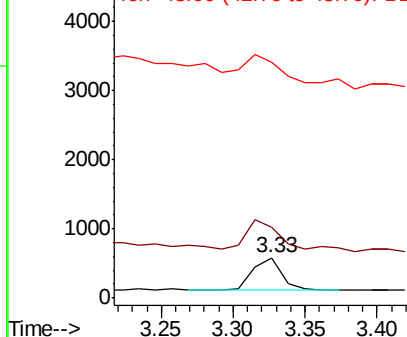
#2

1,4-Dioxane
Concen: 0.357 ng
RT: 3.33 min Scan# 40
Delta R.T. 0.01 min
Lab File: BE098608.D
Acq: 2 Jan 2019 15:16

Tgt Ion: 88 Resp: 667
Ion Ratio Lower Upper
88 100
58 94.5 75.0 112.6
43 100.6 38.3 57.5#



Abundance Ion 88.00 (87.70 to 88.70): BE0
Ion 58.00 (57.70 to 58.70): BE0
Ion 43.00 (42.70 to 43.70): BE0



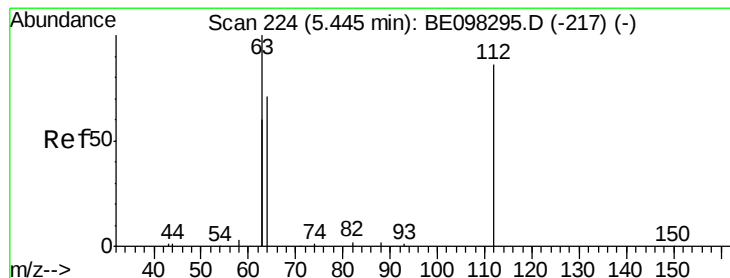
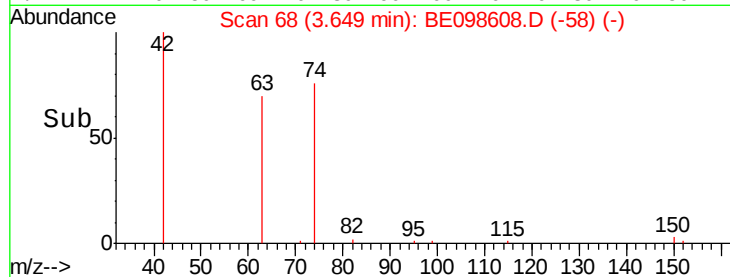
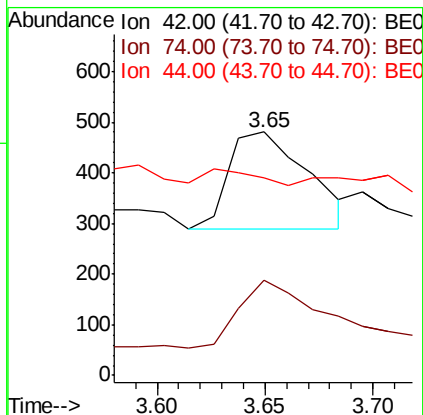
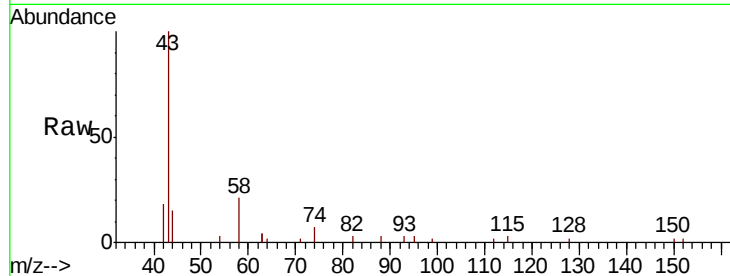


#3

n-Nitrosodimethylamine
 Concen: 0.289 ng
 RT: 3.65 min Scan# 68
 Delta R.T. 0.01 min
 Lab File: BE098608.D
 Acq: 2 Jan 2019 15:16

Instrument :
 BNA_E
 ClientSampled :

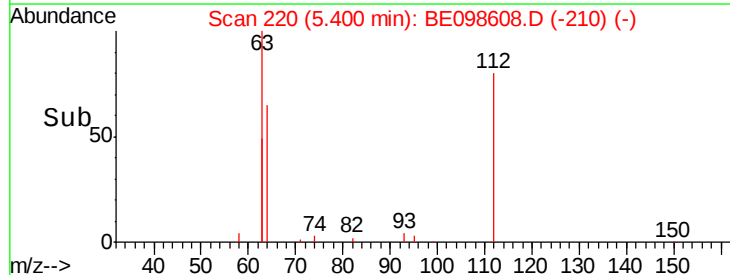
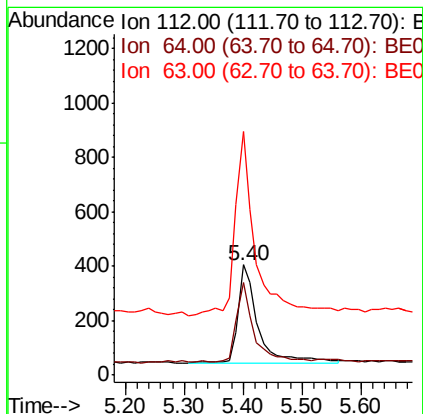
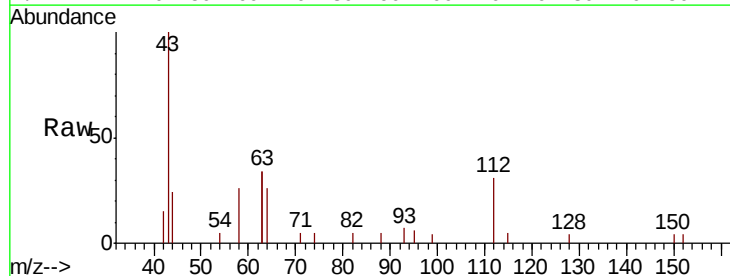
Tot Ion: 42 Resp: 487
 Ion Ratio Lower Upper
 42 100
 74 74.5 0.0 0.0#
 44 0.0 0.0 0.0



#4

2-Fluorophenol
 Concen: 0.326 ng
 RT: 5.40 min Scan# 220
 Delta R.T. 0.01 min
 Lab File: BE098608.D
 Acq: 2 Jan 2019 15:16

Tgt Ion: 112 Resp: 826
 Ion Ratio Lower Upper
 112 100
 64 71.5 59.8 89.8
 63 189.7 133.7 200.5





#5

Phenol-d6

Concen: 0.297 ng

RT: 7.00 min Scan# 359

Delta R.T. 0.01 min

Lab File: BE098608.D

Acq: 2 Jan 2019 15:16

Instrument :

BNA_E

ClientSampleId :

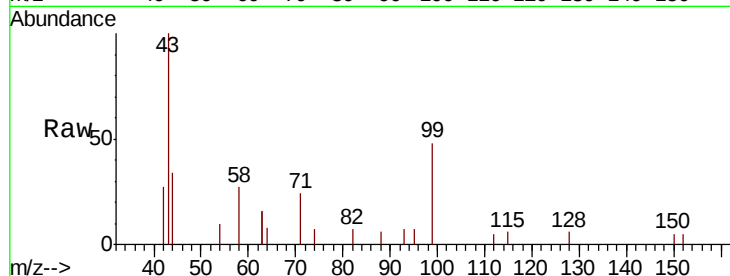
Tot Ion: 99 Resp: 1065

Ion Ratio Lower Upper

99 100

42 31.8 26.3 39.5

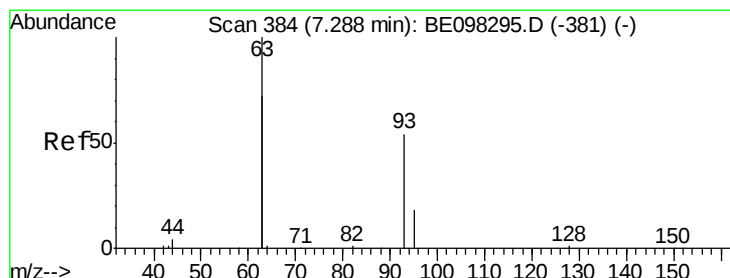
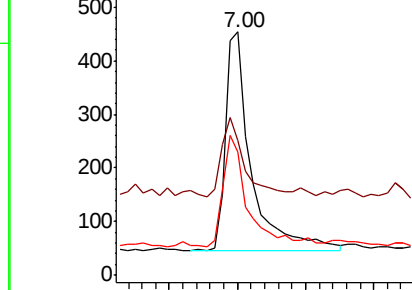
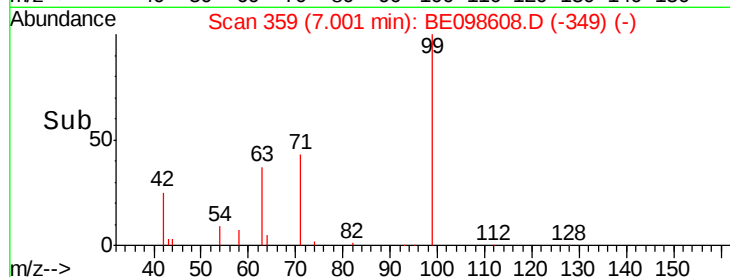
71 50.9 33.6 50.4#



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 0.205 ng

RT: 7.23 min Scan# 379

Delta R.T. 0.00 min

Lab File: BE098608.D

Acq: 2 Jan 2019 15:16

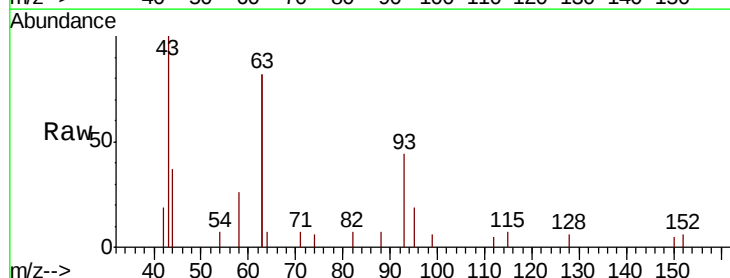
Tgt Ion: 93 Resp: 697

Ion Ratio Lower Upper

93 100

63 339.6 264.4 396.6

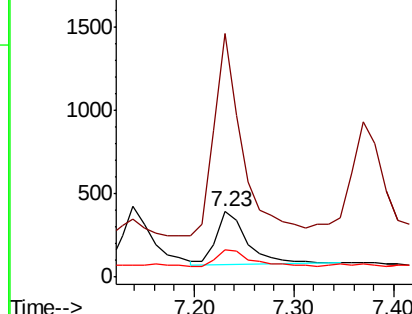
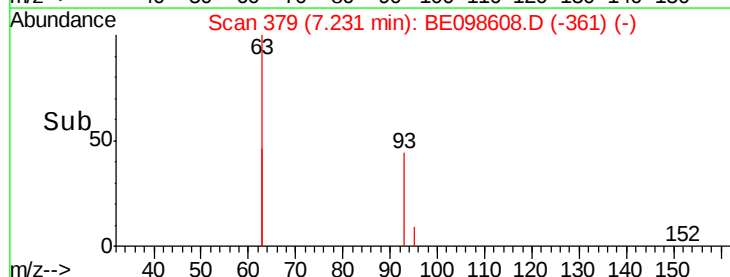
95 34.3 26.6 40.0

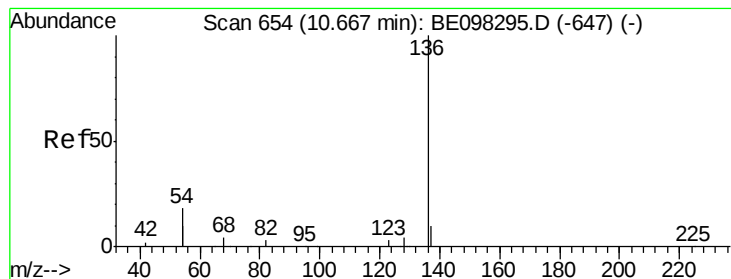


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.60 min Scan# 649

Delta R.T. -0.01 min

Lab File: BE098608.D

Acq: 2 Jan 2019 15:16

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136 Resp: 4459

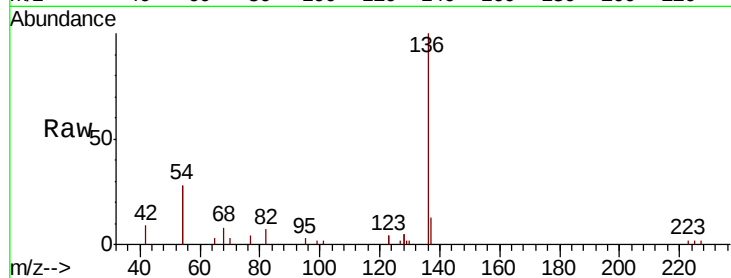
Ion Ratio Lower Upper

136 100

137 13.3 9.2 13.8

54 56.9 28.4 42.6#

68 8.2 5.4 8.0#

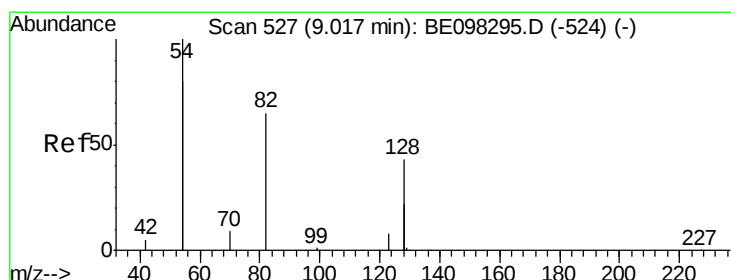
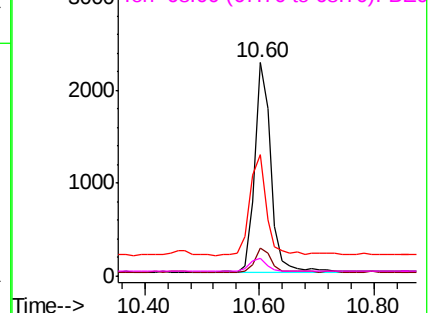
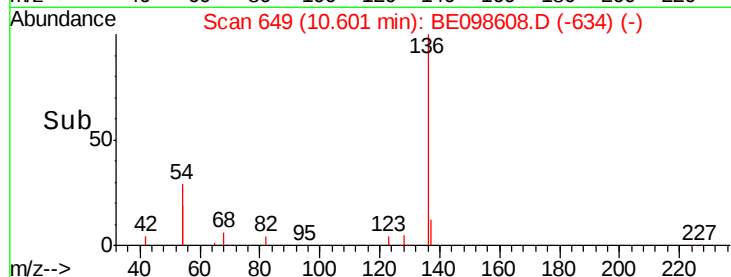


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.258 ng

RT: 8.96 min Scan# 523

Delta R.T. 0.01 min

Lab File: BE098608.D

Acq: 2 Jan 2019 15:16

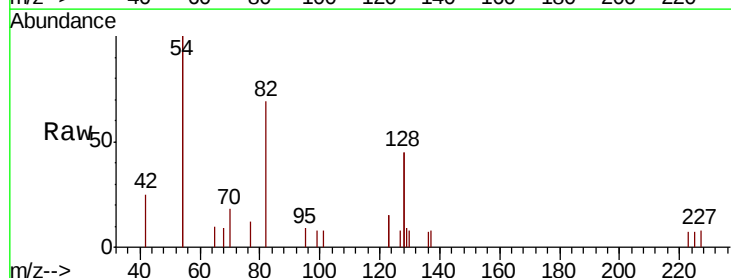
Tgt Ion: 82 Resp: 1047

Ion Ratio Lower Upper

82 100

128 129.0 102.4 153.6

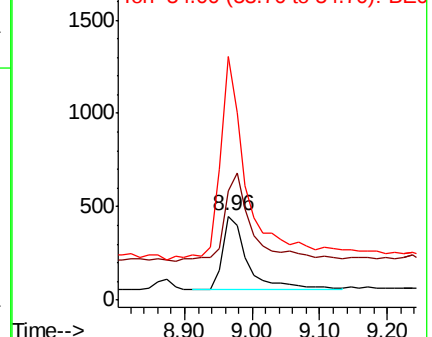
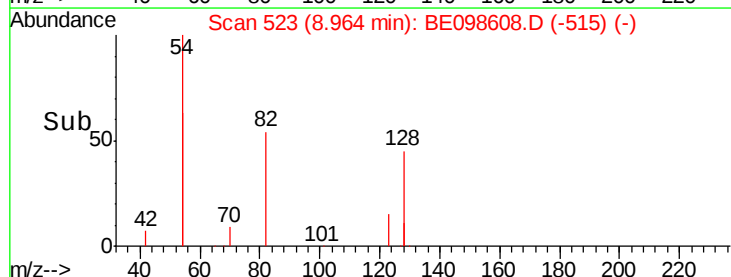
54 289.1 221.8 332.8



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.241 ng

RT: 10.65 min Scan# 653

Delta R.T. 0.01 min

Lab File: BE098608.D

Acq: 2 Jan 2019 15:16

Instrument :

BNA_E

ClientSampleId :

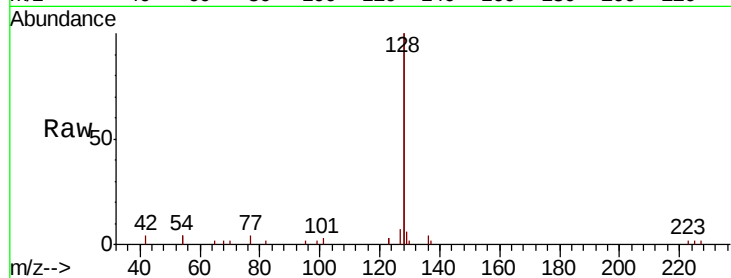
Tot Ion:128 Resp: 10822

Ion Ratio Lower Upper

128 100

129 3.2 2.5 3.7

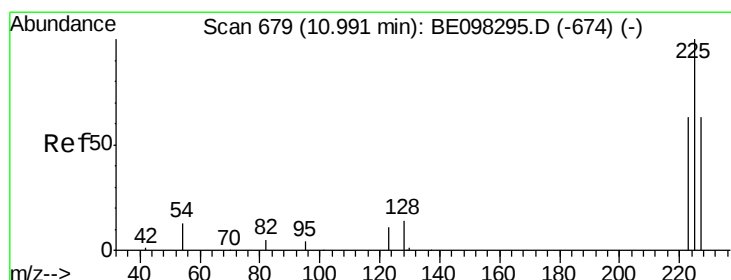
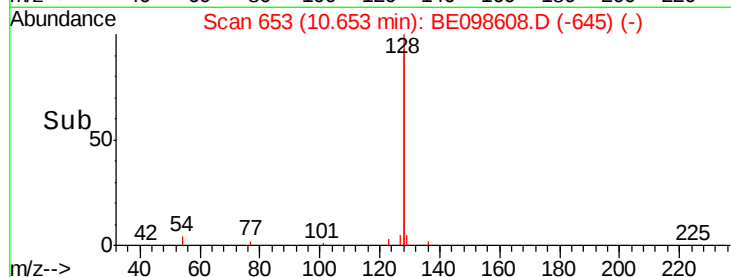
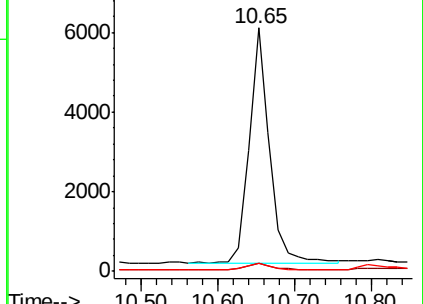
127 3.5 2.7 4.1



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



#10

Hexachlorobutadiene

Concen: 0.249 ng

RT: 10.94 min Scan# 675

Delta R.T. 0.01 min

Lab File: BE098608.D

Acq: 2 Jan 2019 15:16

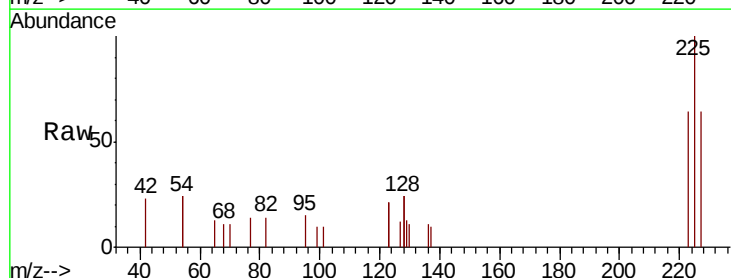
Tgt Ion:225 Resp: 712

Ion Ratio Lower Upper

225 100

223 58.8 49.4 74.0

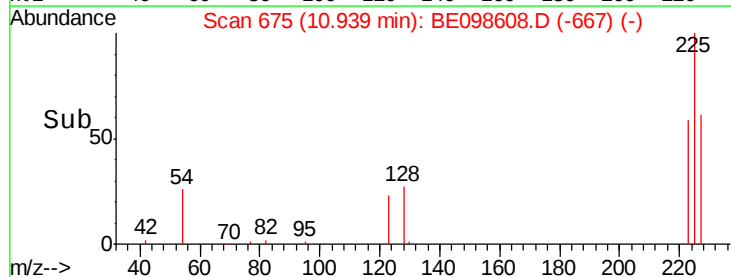
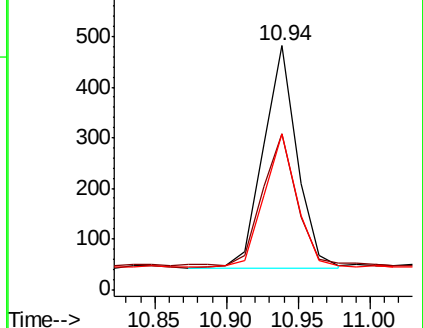
227 59.4 52.0 78.0



Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.274 ng

RT: 12.21 min Scan# 763

Delta R.T. 0.00 min

Lab File: BE098608.D

Acq: 2 Jan 2019 15:16

Instrument :

BNA_E

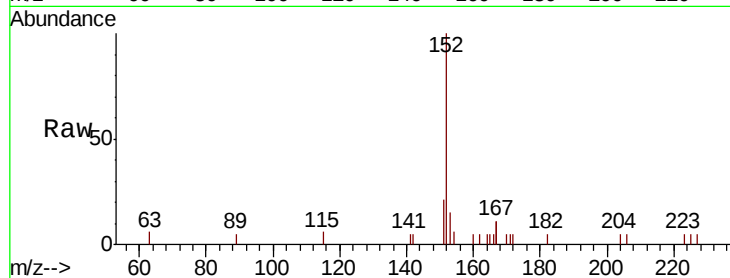
ClientSampled :

Tot Ion:152 Resp: 1986

Ion Ratio Lower Upper

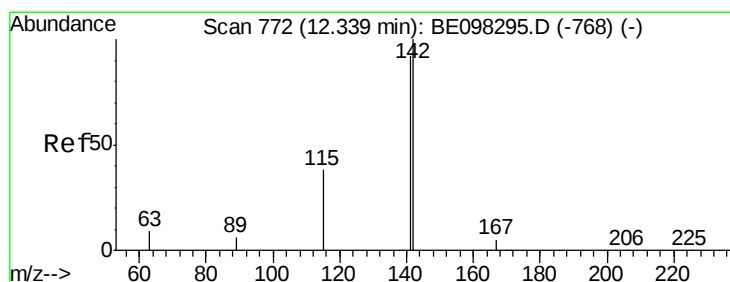
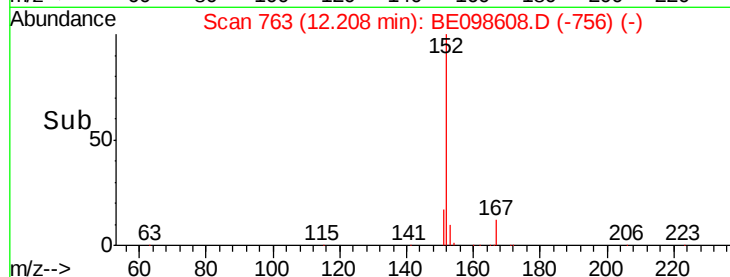
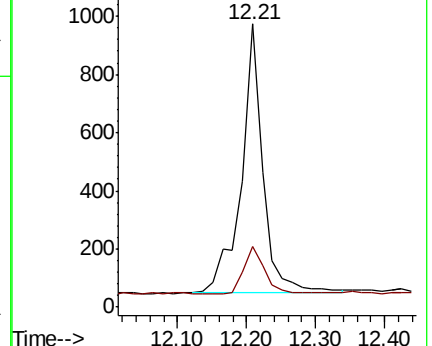
152 100

151 17.1 16.2 24.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.238 ng

RT: 12.28 min Scan# 768

Delta R.T. 0.00 min

Lab File: BE098608.D

Acq: 2 Jan 2019 15:16

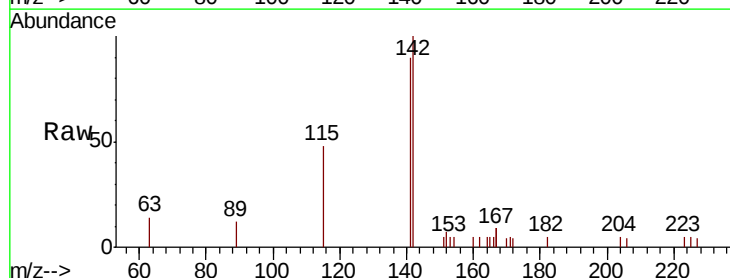
Tgt Ion:142 Resp: 1736

Ion Ratio Lower Upper

142 100

141 90.0 71.0 106.6

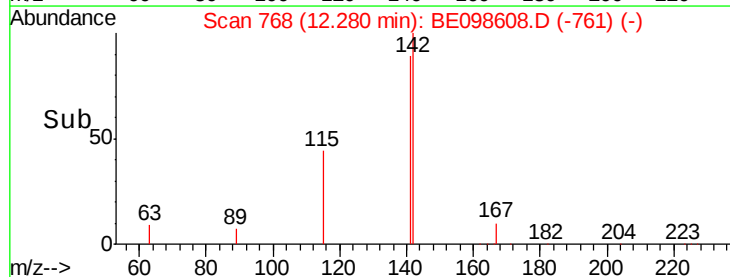
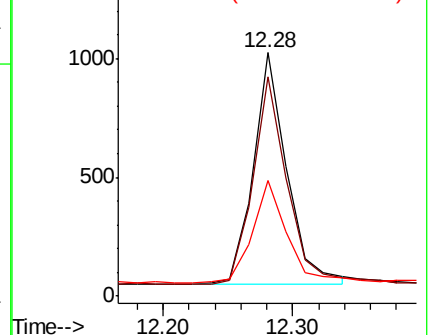
115 47.5 32.2 48.2



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





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.48 min Scan# 921

Delta R.T. 0.02 min

Lab File: BE098608.D

Acq: 2 Jan 2019 15:16

Instrument :

BNA_E

ClientSampleId :

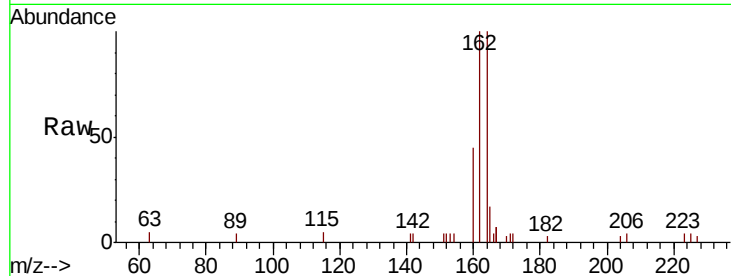
Tot Ion:164 Resp: 2527

Ion Ratio Lower Upper

164 100

162 99.7 77.6 116.4

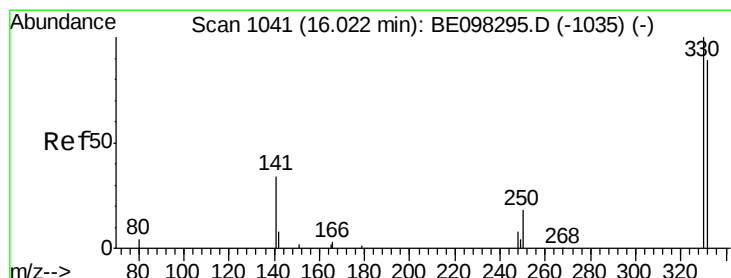
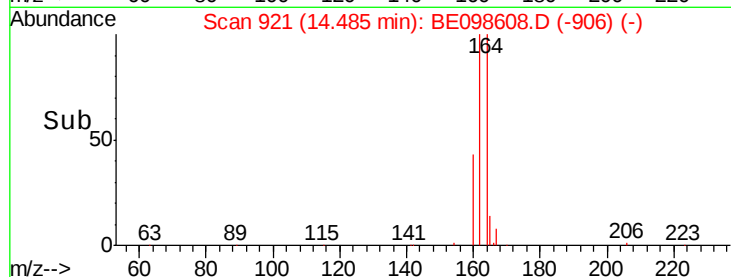
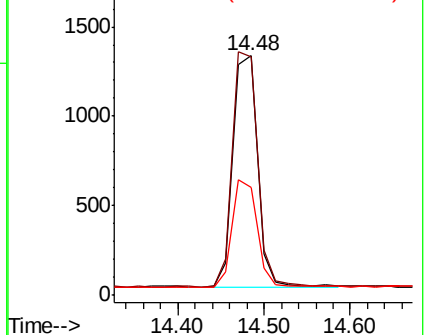
160 45.3 36.0 54.0



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: 0.232 ng

RT: 15.97 min Scan# 1037

Delta R.T. 0.01 min

Lab File: BE098608.D

Acq: 2 Jan 2019 15:16

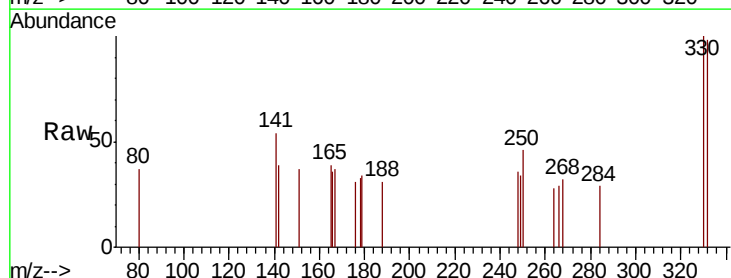
Tgt Ion:330 Resp: 215

Ion Ratio Lower Upper

330 100

332 101.9 76.2 114.4

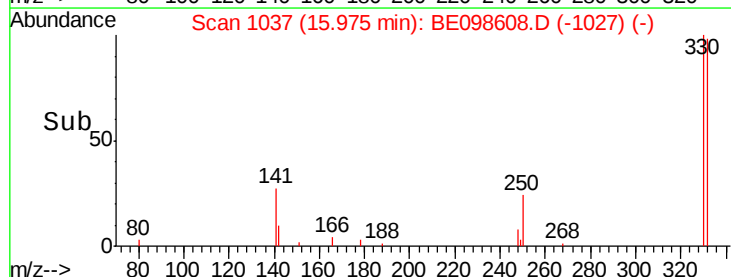
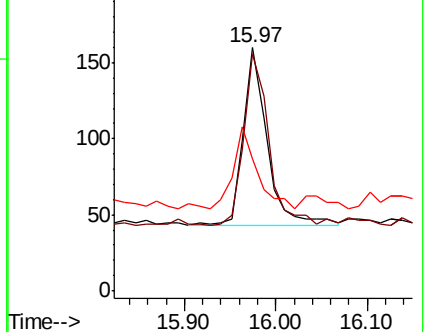
141 45.6 39.0 58.4

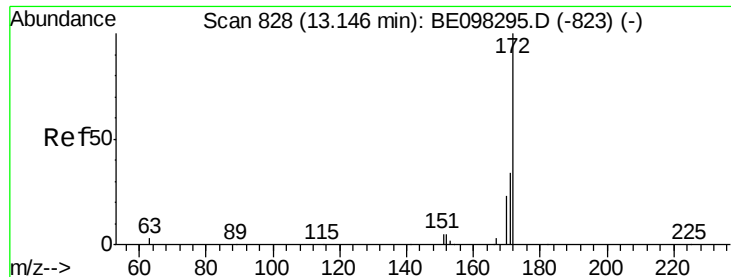


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

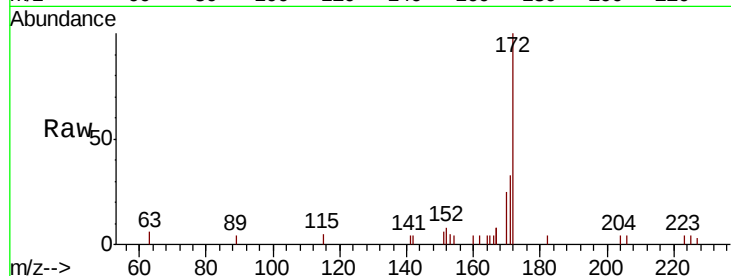




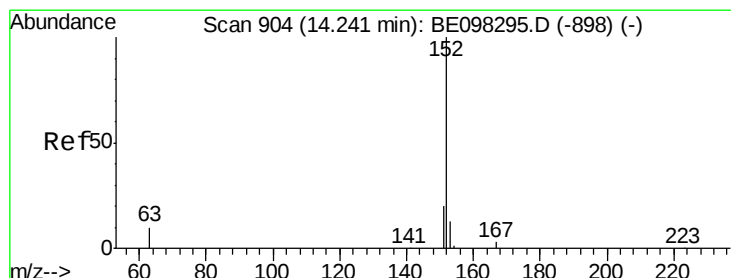
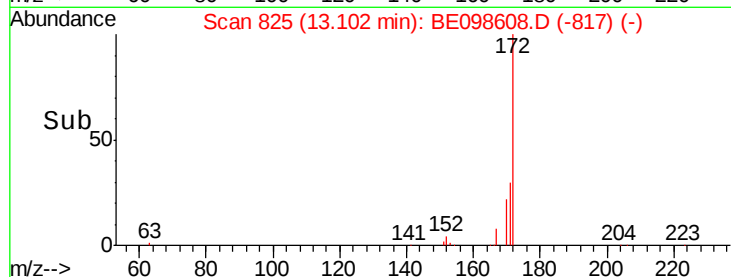
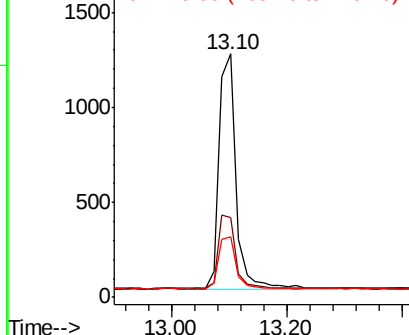
#15
2-Fluorobiphenyl
Concen: 0.237 ng
RT: 13.10 min Scan# 825
Delta R.T. 0.02 min
Lab File: BE098608.D
Acq: 2 Jan 2019 15:16

Instrument :
BNA_E
ClientSampleId :

Tot Ion:172 Resp: 2529
Ion Ratio Lower Upper
172 100
171 32.8 27.5 41.3
170 24.8 19.6 29.4

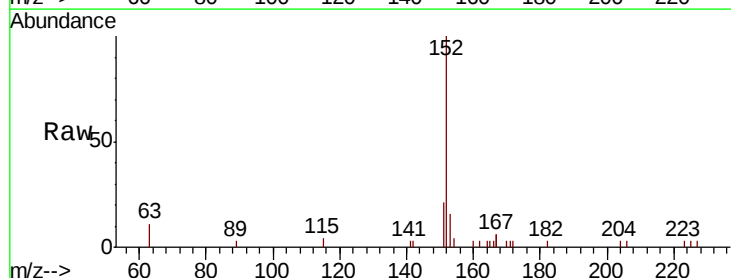


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

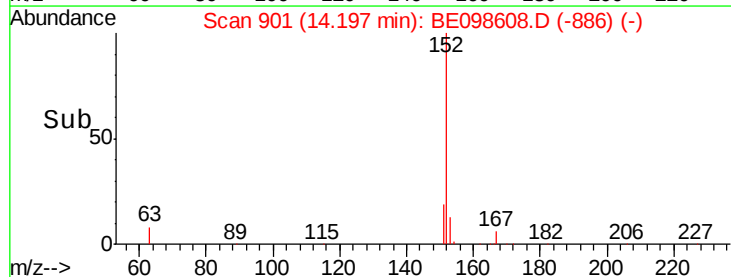
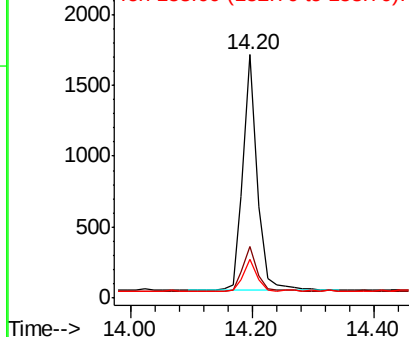


#16
Acenaphthylene
Concen: 0.233 ng
RT: 14.20 min Scan# 901
Delta R.T. 0.02 min
Lab File: BE098608.D
Acq: 2 Jan 2019 15:16

Tgt Ion:152 Resp: 2762
Ion Ratio Lower Upper
152 100
151 19.0 15.5 23.3
153 14.0 10.6 16.0



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

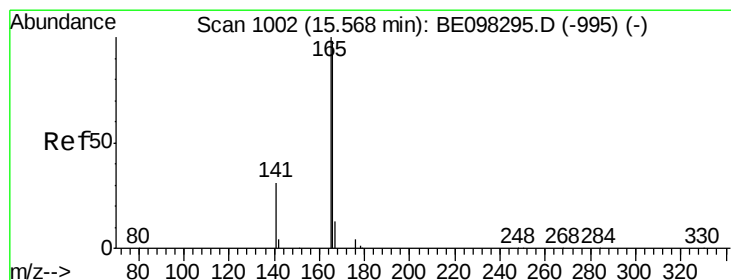
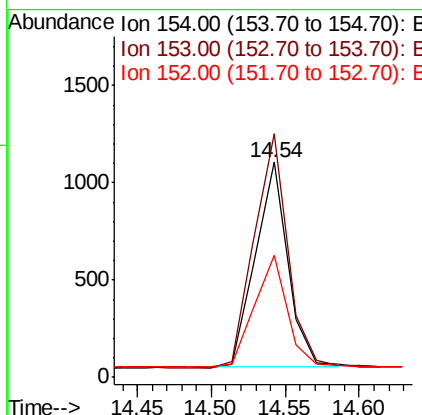
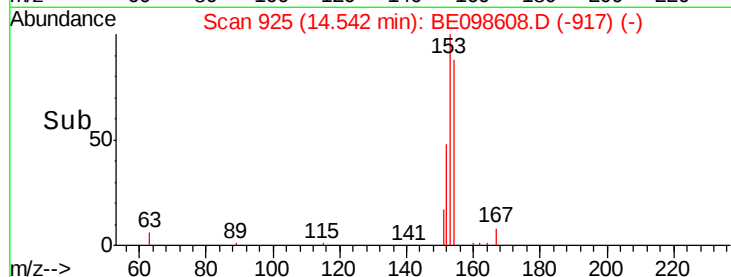
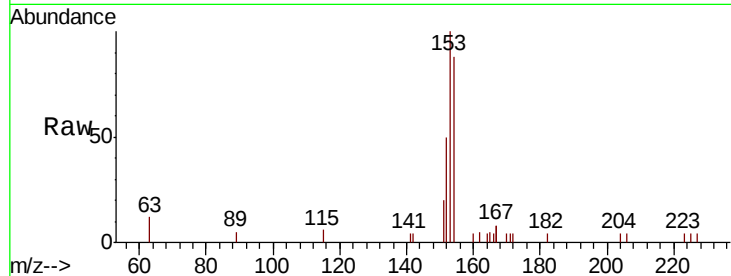




#17
Acenaphthene
Concen: 0.222 ng
RT: 14.54 min Scan# 925
Delta R.T. 0.02 min
Lab File: BE098608.D
Acq: 2 Jan 2019 15:16

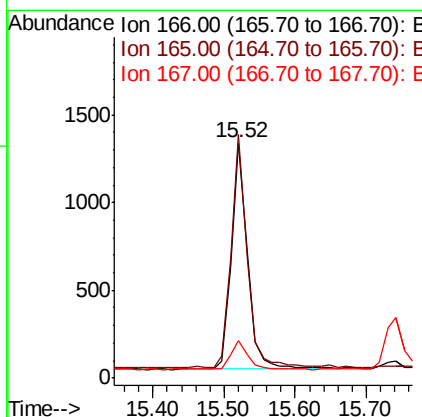
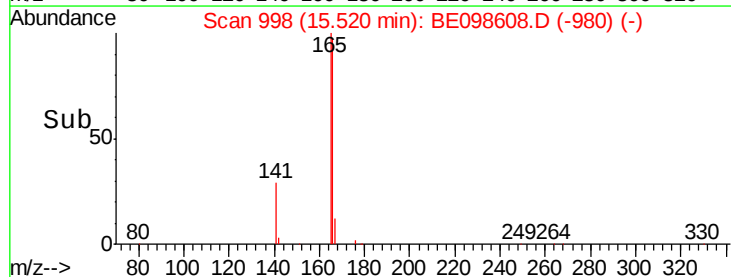
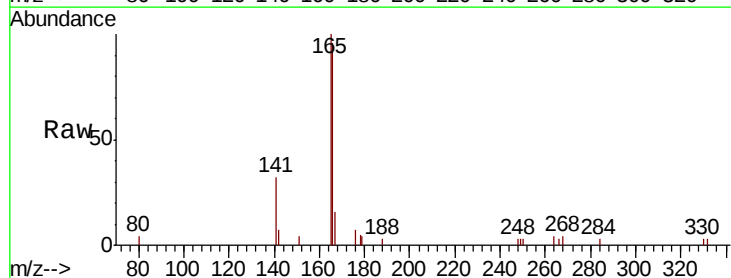
Instrument :
BNA_E
ClientSampleId :

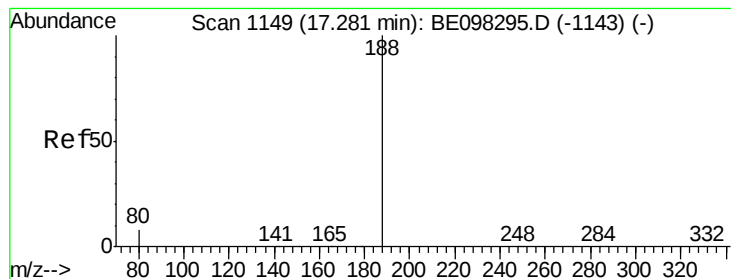
Tot Ion:154 Resp: 1582
Ion Ratio Lower Upper
154 100
153 119.2 91.8 137.6
152 55.4 45.5 68.3



#18
Fluorene
Concen: 0.215 ng
RT: 15.52 min Scan# 998
Delta R.T. 0.01 min
Lab File: BE098608.D
Acq: 2 Jan 2019 15:16

Tgt Ion:166 Resp: 2043
Ion Ratio Lower Upper
166 100
165 102.5 79.3 118.9
167 13.7 11.3 16.9





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.22 min Scan# 1144

Delta R.T. 0.00 min

Lab File: BE098608.D

Acq: 2 Jan 2019 15:16

Instrument :

BNA_E

ClientSampleId :

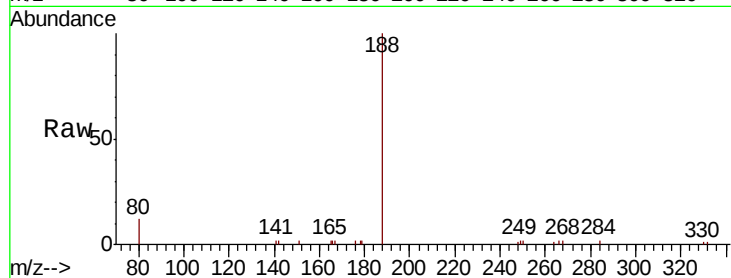
Tot Ion:188 Resp: 5466

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

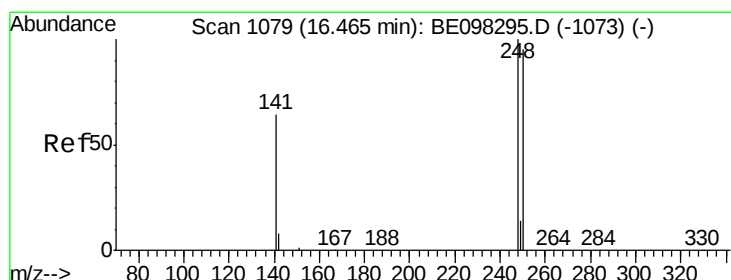
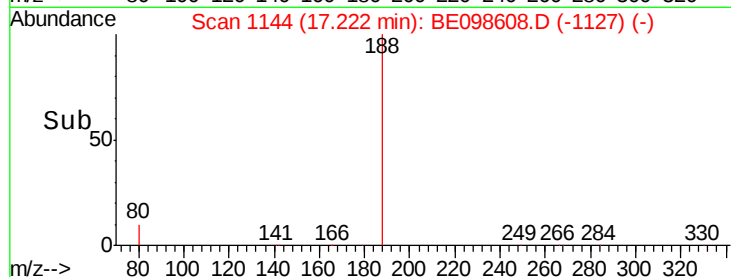
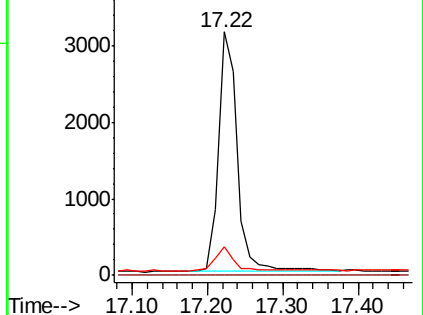
80 11.9 7.2 10.8#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#20

4-Bromophenyl-phenylether

Concen: 0.226 ng

RT: 16.42 min Scan# 1075

Delta R.T. 0.01 min

Lab File: BE098608.D

Acq: 2 Jan 2019 15:16

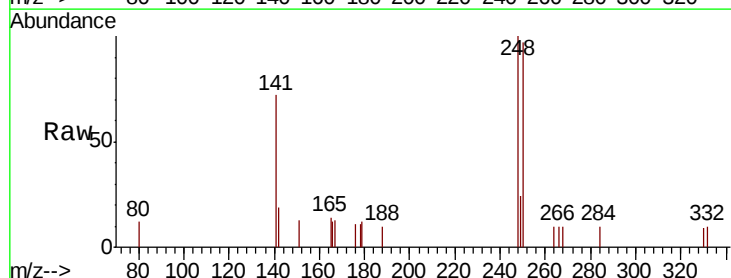
Tgt Ion:248 Resp: 664

Ion Ratio Lower Upper

248 100

250 97.5 71.0 106.6

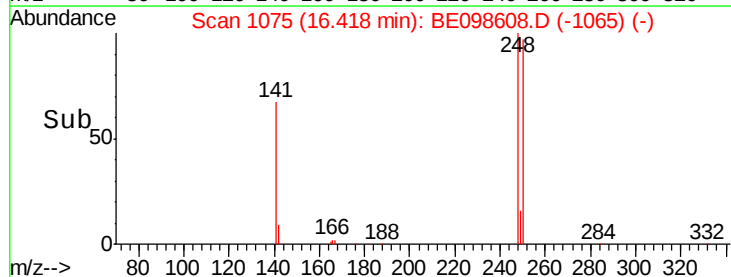
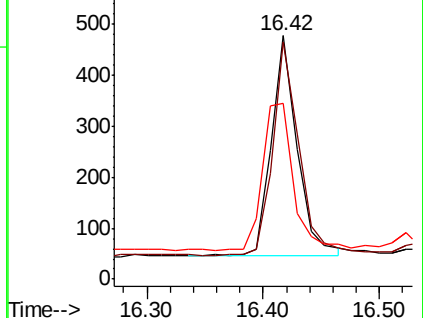
141 72.2 62.1 93.1



Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.237 ng

RT: 16.53 min Scan# 1085

Delta R.T. 0.01 min

Lab File: BE098608.D

Acq: 2 Jan 2019 15:16

Instrument :

BNA_E

ClientSampleId :

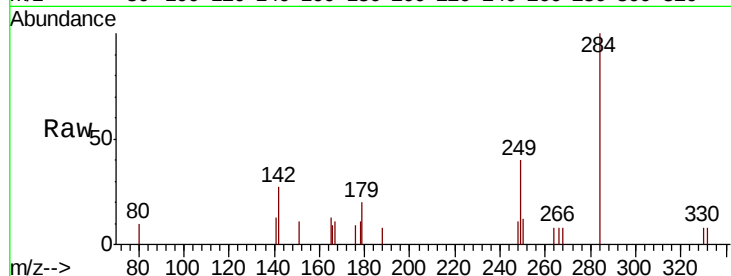
Tot Ion:284 Resp: 750

Ion Ratio Lower Upper

284 100

142 33.6 26.3 39.5

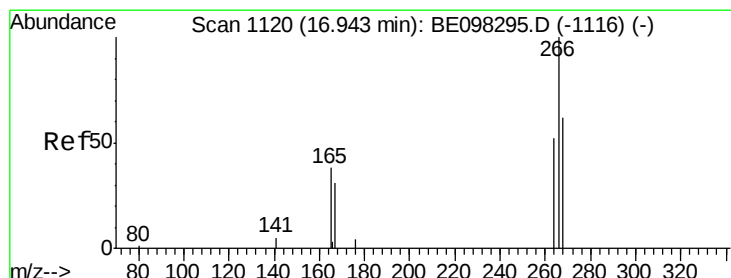
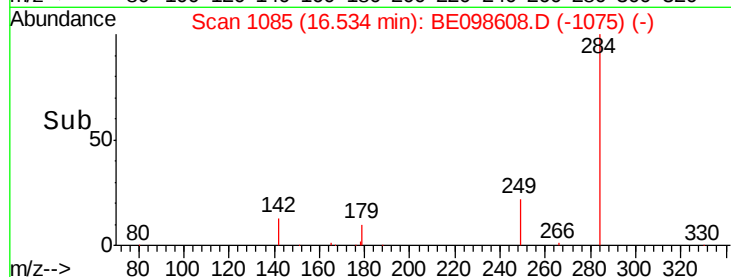
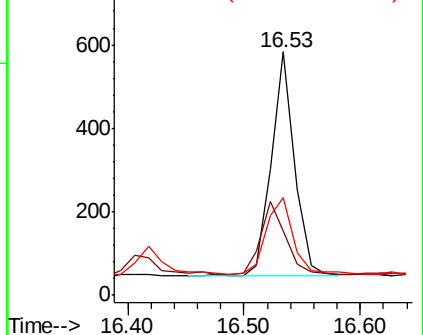
249 39.2 26.0 39.0#



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#22

Pentachlorophenol

Concen: 0.229 ng

RT: 16.90 min Scan# 1116

Delta R.T. 0.01 min

Lab File: BE098608.D

Acq: 2 Jan 2019 15:16

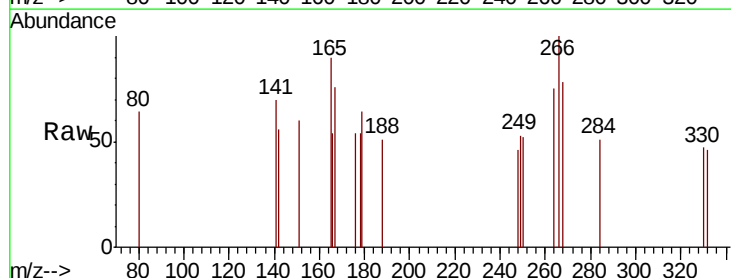
Tgt Ion:266 Resp: 107

Ion Ratio Lower Upper

266 100

264 75.3 59.0 88.4

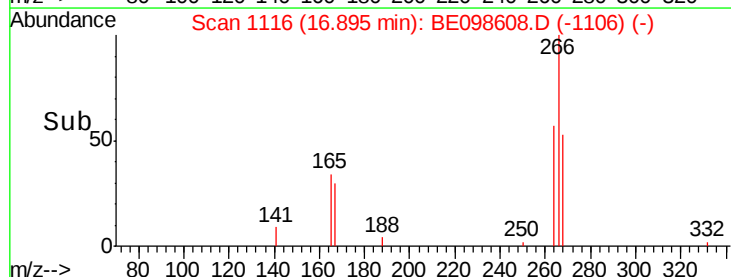
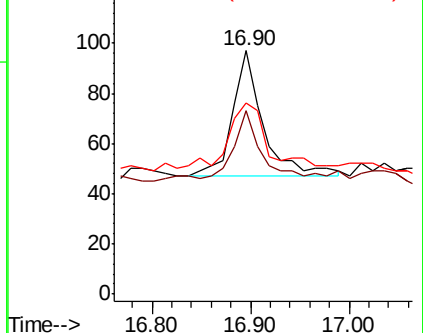
268 78.4 55.1 82.7



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: 0.236 ng

RT: 17.27 min Scan# 1148

Delta R.T. 0.01 min

Lab File: BE098608.D

Acq: 2 Jan 2019 15:16

Instrument :

BNA_E

ClientSampled :

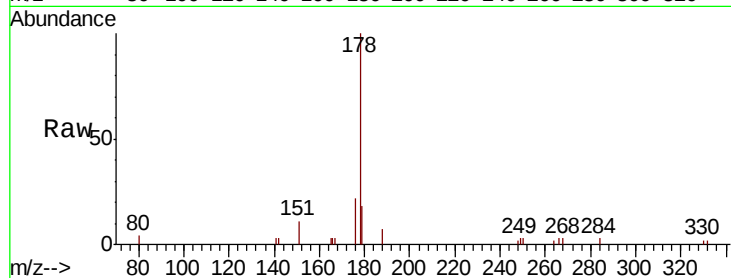
Tot Ion:178 Resp: 3131

Ion Ratio Lower Upper

178 100

176 20.3 15.9 23.9

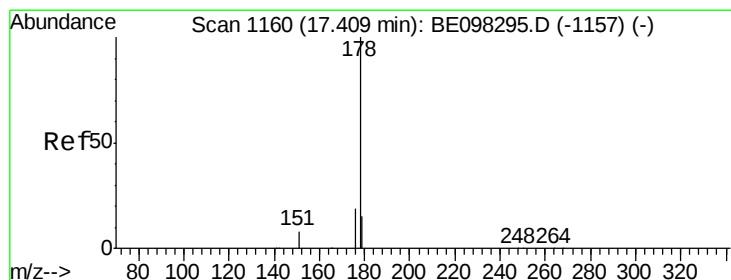
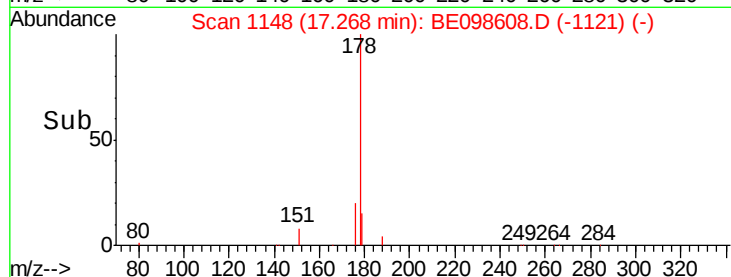
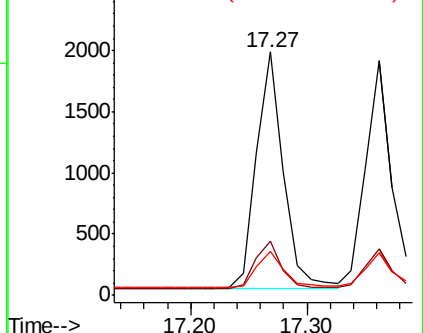
179 15.9 12.3 18.5



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: 0.241 ng

RT: 17.36 min Scan# 1156

Delta R.T. 0.01 min

Lab File: BE098608.D

Acq: 2 Jan 2019 15:16

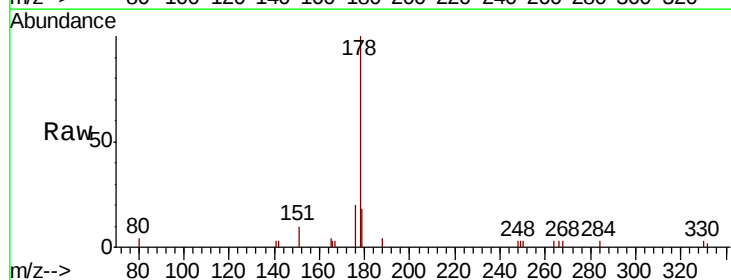
Tgt Ion:178 Resp: 2850

Ion Ratio Lower Upper

178 100

176 18.6 15.0 22.4

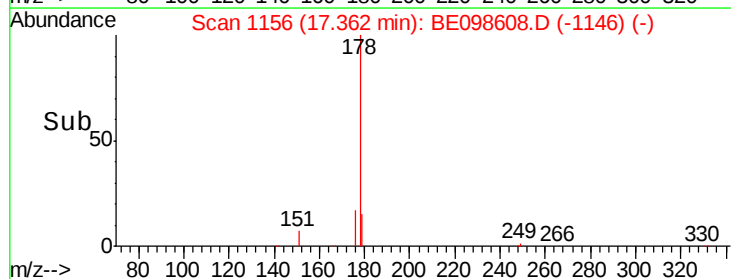
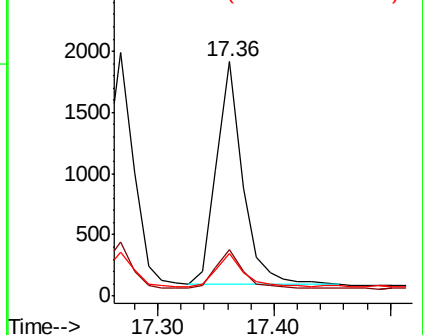
179 15.6 12.3 18.5



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: 0.232 ng

RT: 19.26 min Scan# 1425

Delta R.T. 0.01 min

Lab File: BE098608.D

Acq: 2 Jan 2019 15:16

Instrument :

BNA_E

ClientSampleId :

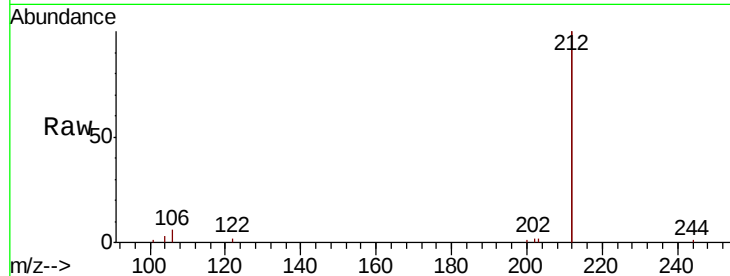
Tot Ion:212 Resp: 16273

Ion Ratio Lower Upper

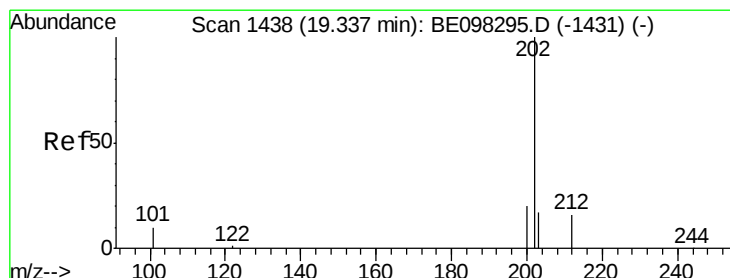
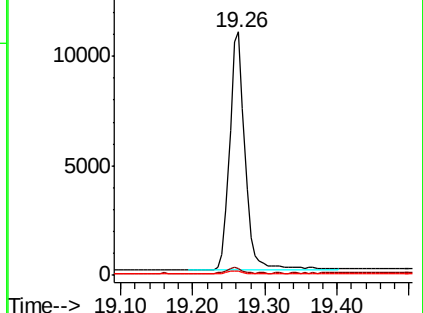
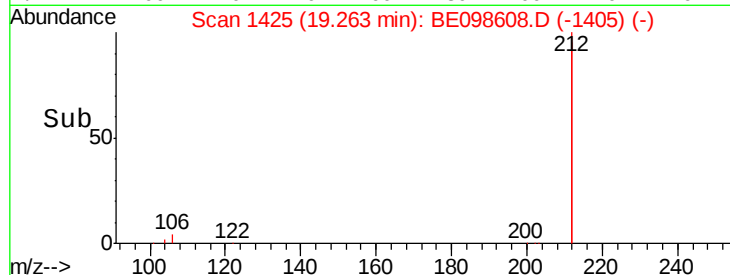
212 100

106 2.4 2.2 3.2

104 1.3 1.3 1.9



Abundance Ion 212.00 (211.70 to 212.70): E
15000
Ion 106.00 (105.70 to 106.70): E
Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.222 ng

RT: 19.29 min Scan# 1430

Delta R.T. 0.01 min

Lab File: BE098608.D

Acq: 2 Jan 2019 15:16

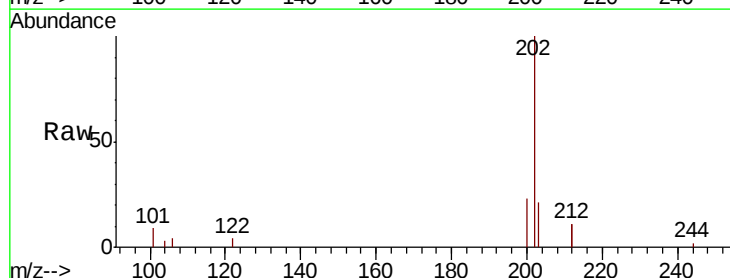
Tgt Ion:202 Resp: 3896

Ion Ratio Lower Upper

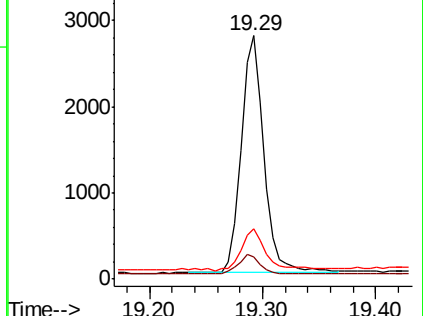
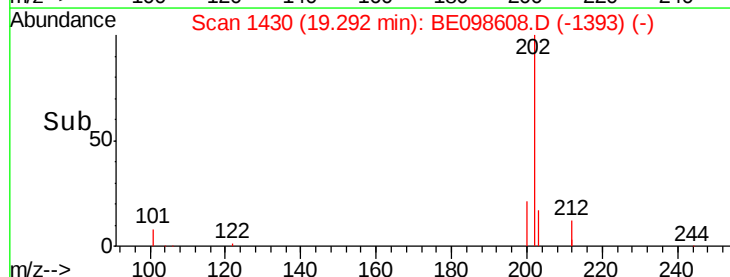
202 100

101 8.2 8.0 12.0

203 19.1 13.8 20.6



Abundance Ion 202.00 (201.70 to 202.70): E
3000
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: 21.41 min Scan# 1667

Delta R.T. 0.01 min

Lab File: BE098608.D

Acq: 2 Jan 2019 15:16

Instrument :

BNA_E

ClientSampleId :

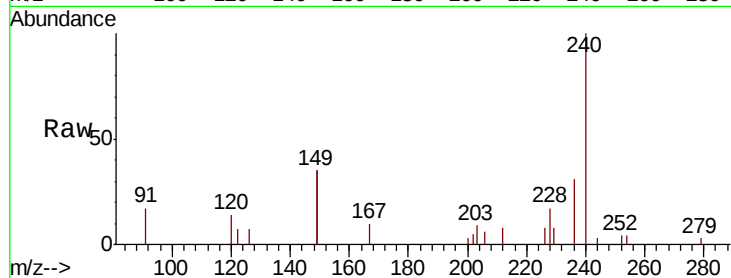
Tot Ion:240 Resp: 5832

Ion Ratio Lower Upper

240 100

120 14.1 9.5 14.3

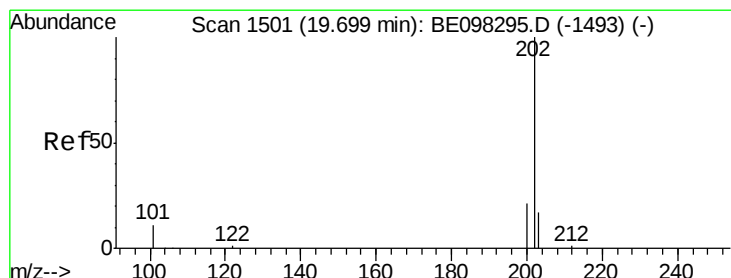
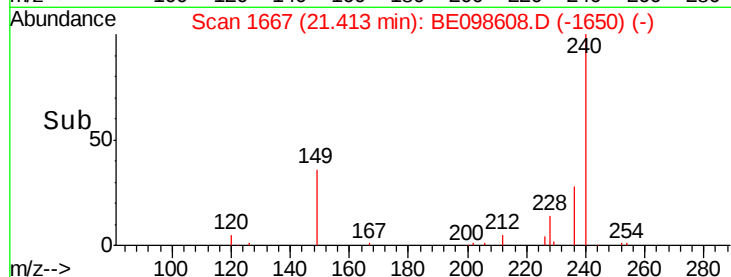
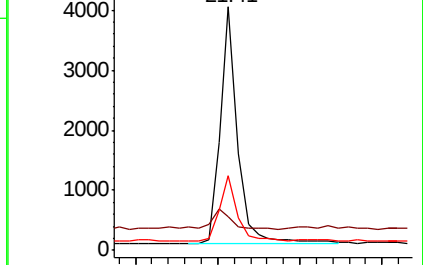
236 30.7 22.7 34.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#28

Pyrene

Concen: 0.215 ng

RT: 19.65 min Scan# 1493

Delta R.T. 0.01 min

Lab File: BE098608.D

Acq: 2 Jan 2019 15:16

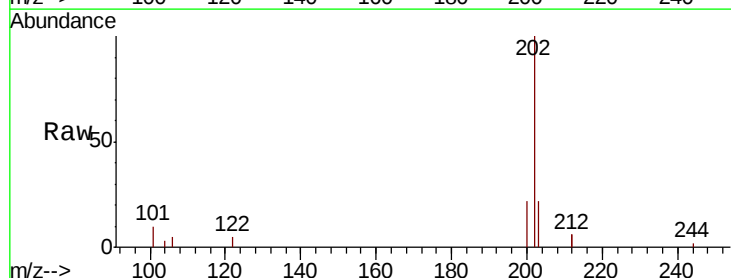
Tgt Ion:202 Resp: 3926

Ion Ratio Lower Upper

202 100

200 21.6 16.7 25.1

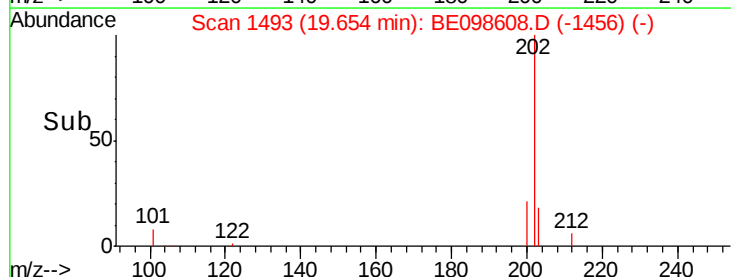
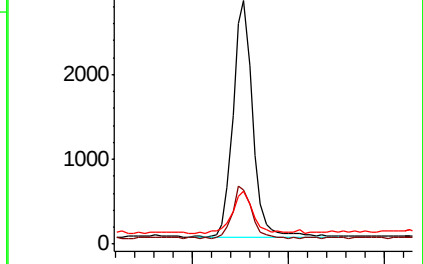
203 18.5 14.1 21.1

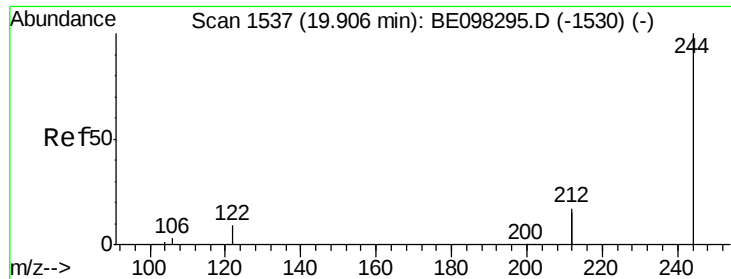


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.218 ng

RT: 19.85 min Scan# 1528

Delta R.T. 0.01 min

Lab File: BE098608.D

Acq: 2 Jan 2019 15:16

Instrument :

BNA_E

ClientSampleId :

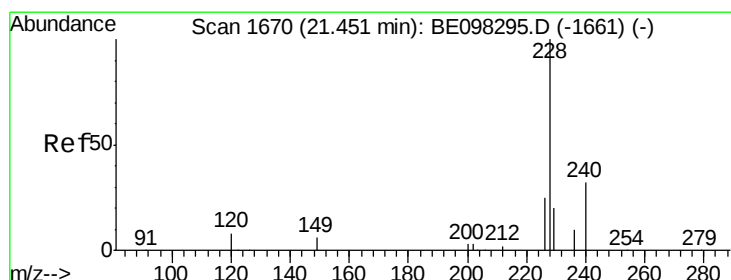
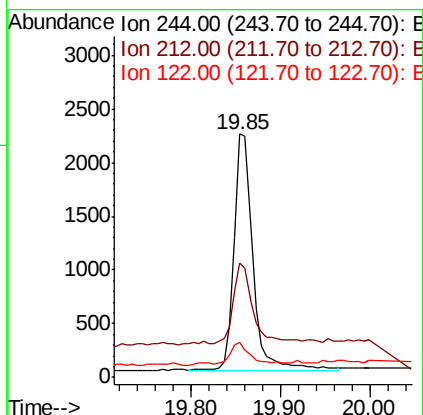
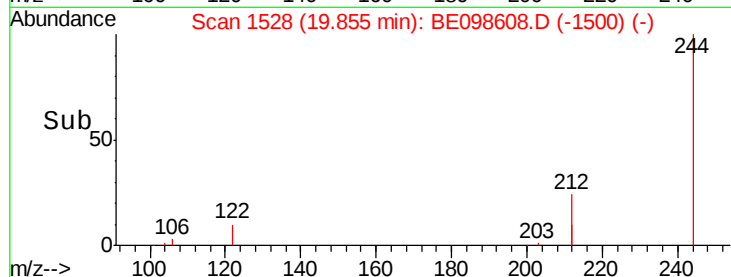
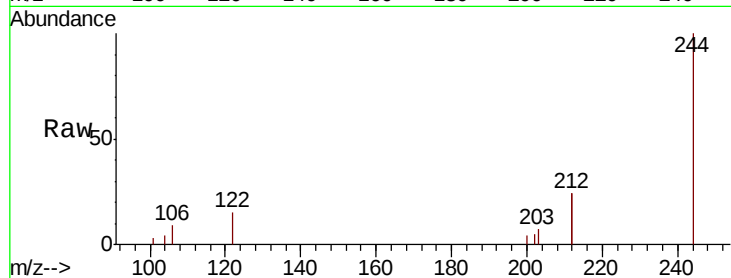
Tot Ion:244 Resp: 3085

Ion Ratio Lower Upper

244 100

212 47.1 27.4 41.0#

122 14.5 8.3 12.5#



#30

Benzo(a)anthracene

Concen: 0.250 ng

RT: 21.40 min Scan# 1666

Delta R.T. 0.01 min

Lab File: BE098608.D

Acq: 2 Jan 2019 15:16

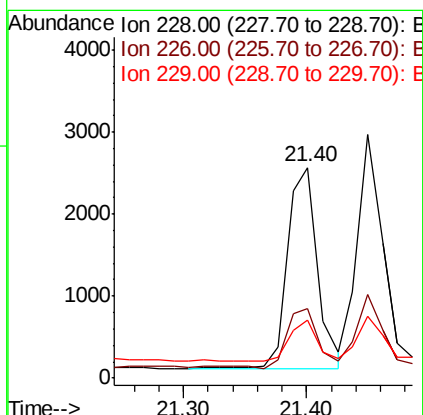
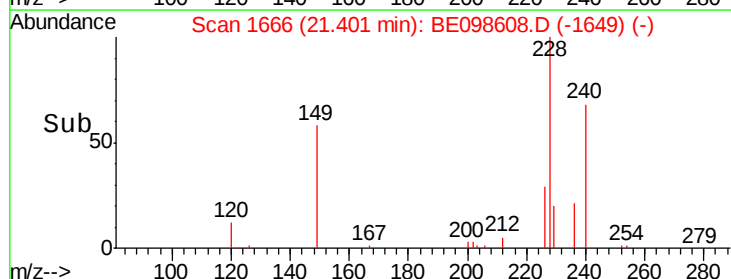
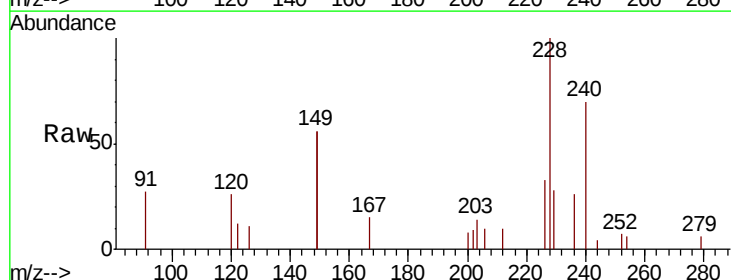
Tgt Ion:228 Resp: 4157

Ion Ratio Lower Upper

228 100

226 32.9 21.8 32.8#

229 27.8 16.3 24.5#





#31

Chrysene

Concen: 0.234 ng

RT: 21.45 min Scan# 1670

Delta R.T. 0.01 min

Lab File: BE098608.D

Acq: 2 Jan 2019 15:16

Instrument :

BNA_E

ClientSampled :

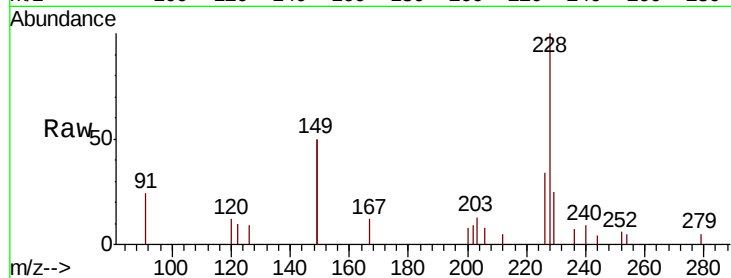
Tot Ion:228 Resp: 4063

Ion Ratio Lower Upper

228 100

226 34.3 23.4 35.0

229 25.4 16.2 24.4#

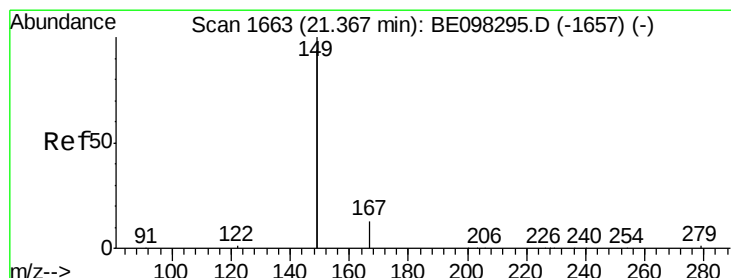
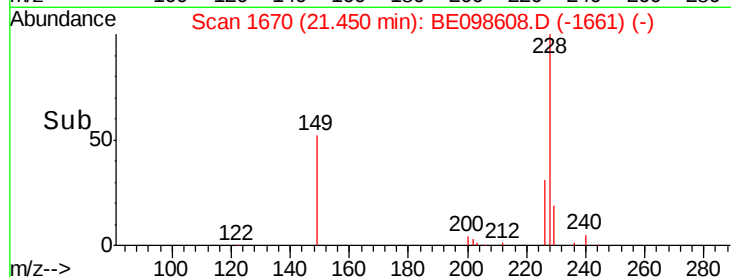
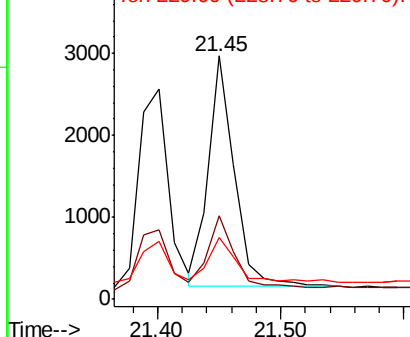


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.297 ng

RT: 21.32 min Scan# 1659

Delta R.T. 0.01 min

Lab File: BE098608.D

Acq: 2 Jan 2019 15:16

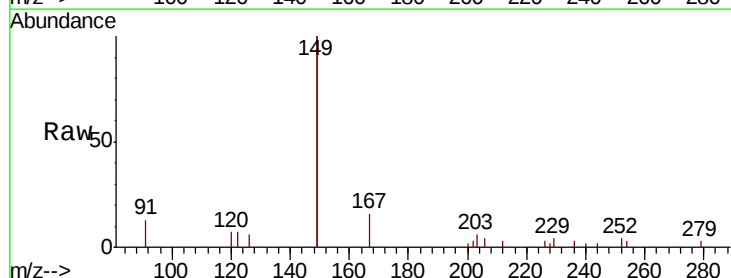
Tgt Ion:149 Resp: 10033

Ion Ratio Lower Upper

149 100

167 7.3 5.7 8.5

279 1.8 1.0 1.4#

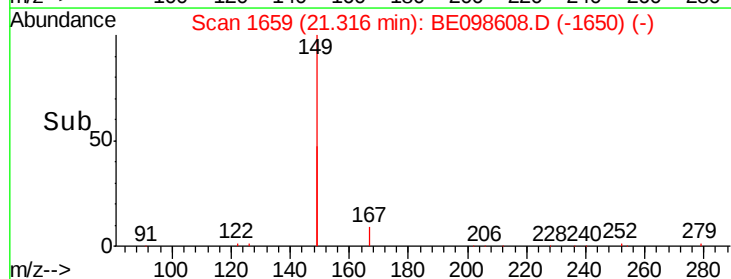
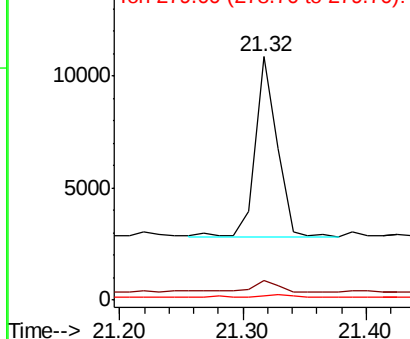


Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.326 ng

RT: 26.57 min Scan# 2987

Delta R.T. -0.06 min

Lab File: BE098608.D

Acq: 2 Jan 2019 15:16

Instrument :

BNA_E

ClientSampleId :

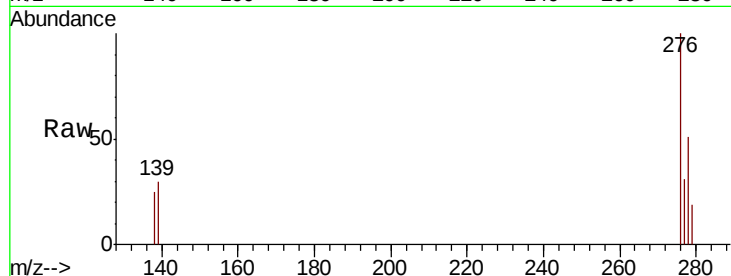
Tot Ion:276 Resp: 5641

Ion Ratio Lower Upper

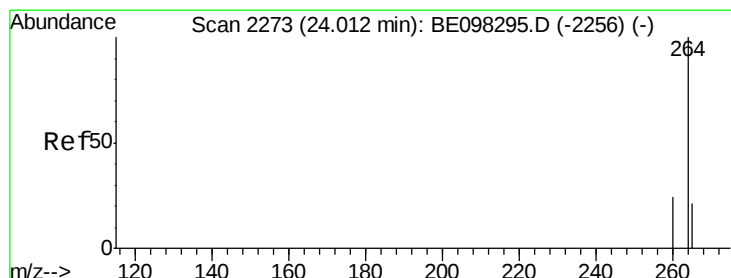
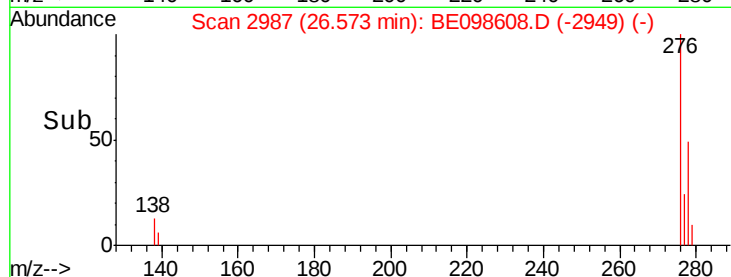
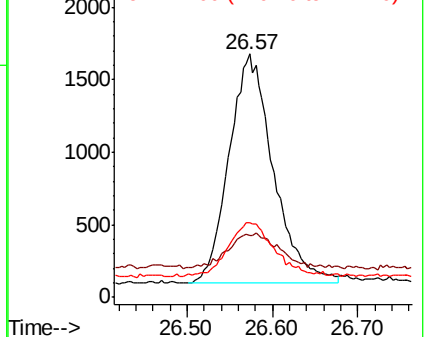
276 100

138 8.7 16.3 24.5#

277 23.9 20.2 30.4



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: 23.93 min Scan# 2249

Delta R.T. -0.03 min

Lab File: BE098608.D

Acq: 2 Jan 2019 15:16

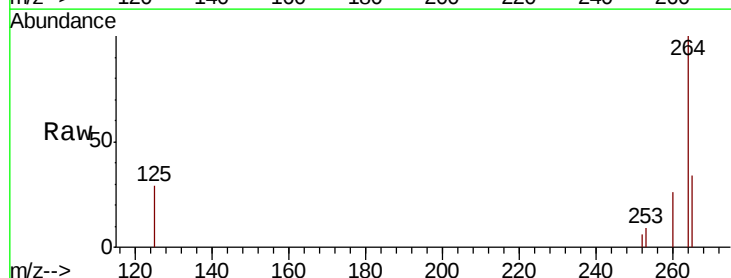
Tgt Ion:264 Resp: 6875

Ion Ratio Lower Upper

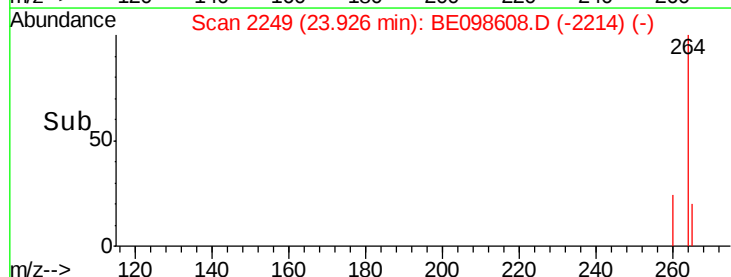
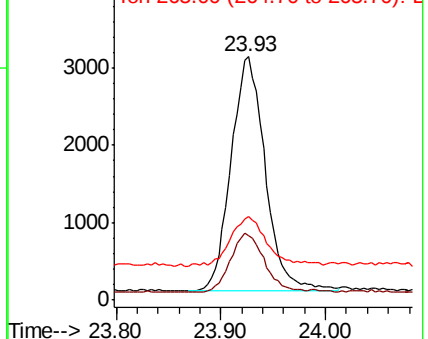
264 100

260 26.3 20.2 30.2

265 34.3 25.2 37.8



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

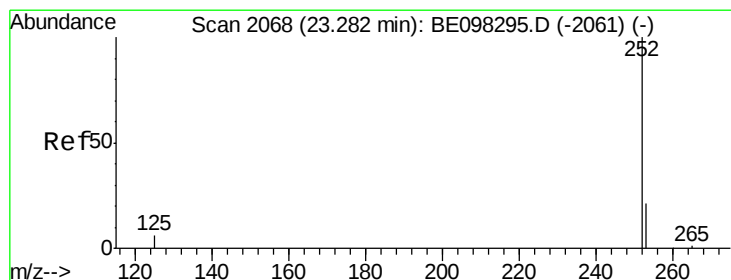
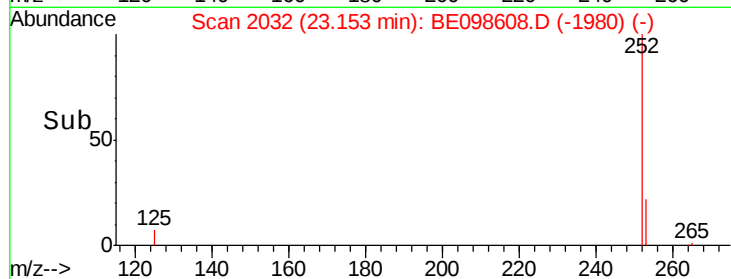
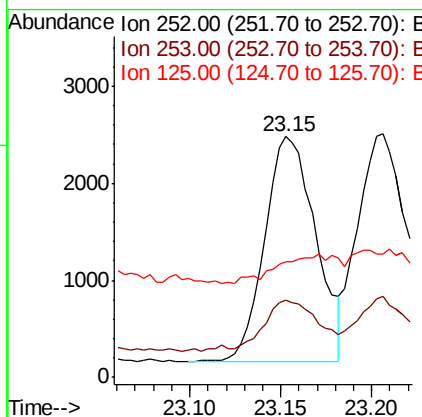
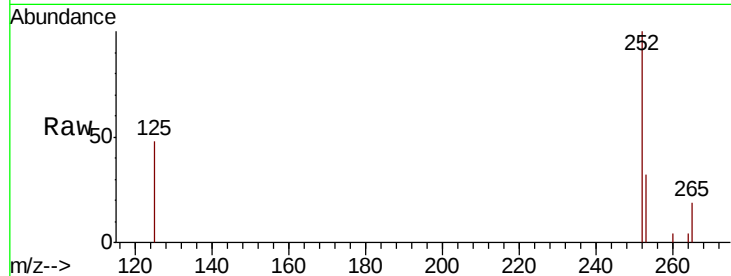




#35
Benzo(b)fluoranthene
Concen: 0.240 ng
RT: 23.15 min Scan# 2032
Delta R.T. -0.02 min
Lab File: BE098608.D
Acq: 2 Jan 2019 15:16

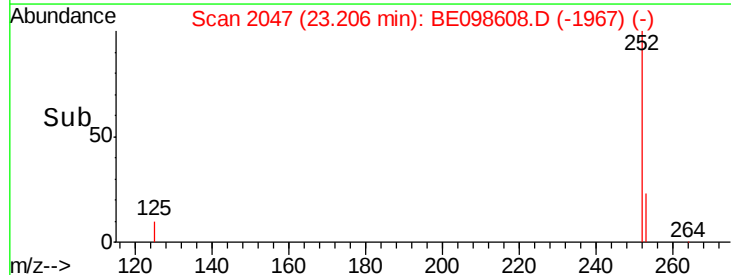
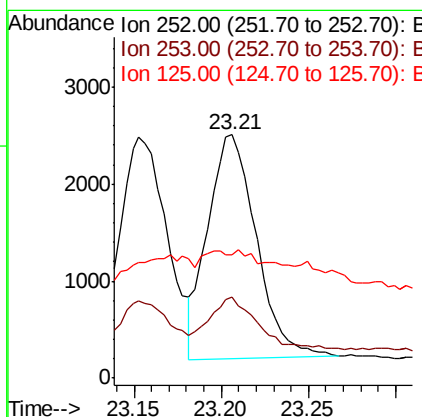
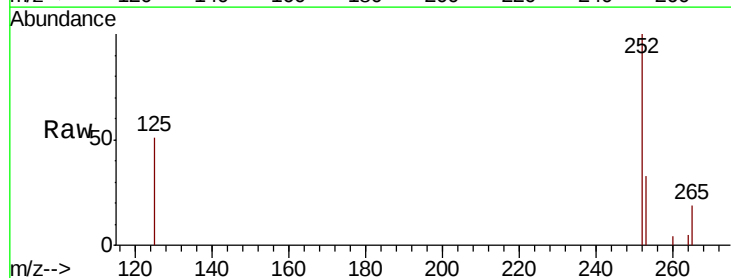
Instrument :
BNA_E
ClientSampleId :

Tot Ion:252 Resp: 4509
Ion Ratio Lower Upper
252 100
253 32.3 20.0 30.0#
125 48.0 9.6 14.4#



#36
Benzo(k)fluoranthene
Concen: 0.204 ng
RT: 23.21 min Scan# 2047
Delta R.T. -0.02 min
Lab File: BE098608.D
Acq: 2 Jan 2019 15:16

Tgt Ion:252 Resp: 4466
Ion Ratio Lower Upper
252 100
253 33.1 19.0 28.6#
125 50.5 9.1 13.7#





#37

Benzo(a)pyrene

Concen: 0.240 ng

RT: 23.81 min Scan# 2217

Delta R.T. -0.03 min

Lab File: BE098608.D

Acq: 2 Jan 2019 15:16

Instrument :

BNA_E

ClientSampleId :

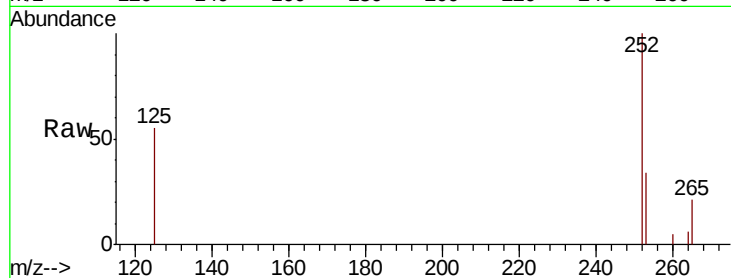
Tot Ion:252 Resp: 4649

Ion Ratio Lower Upper

252 100

253 33.7 20.6 30.8#

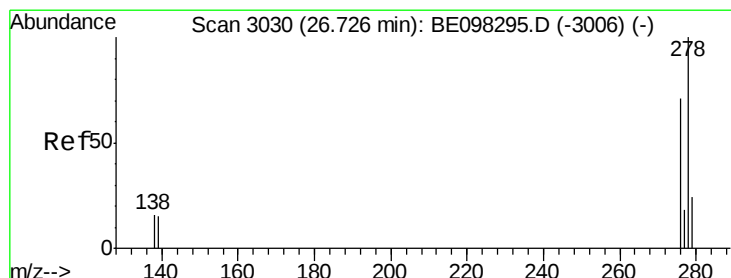
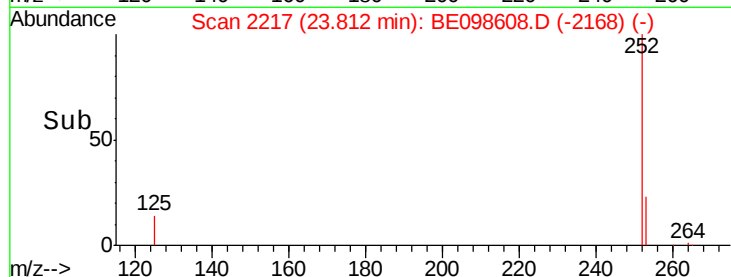
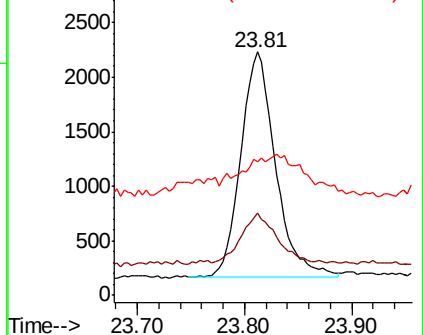
125 54.7 10.5 15.7#



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: 0.256 ng

RT: 26.60 min Scan# 2994

Delta R.T. -0.07 min

Lab File: BE098608.D

Acq: 2 Jan 2019 15:16

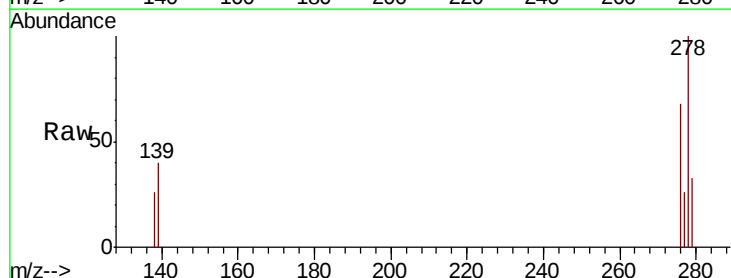
Tgt Ion:278 Resp: 4677

Ion Ratio Lower Upper

278 100

139 40.3 14.5 21.7#

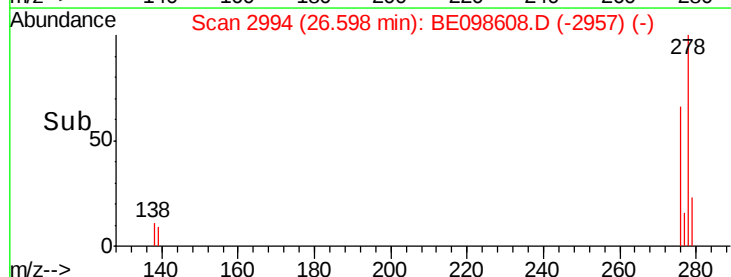
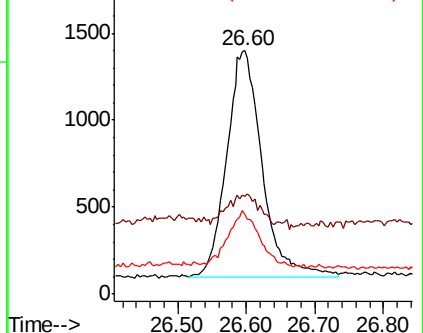
279 32.9 21.8 32.8#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.259 ng

RT: 27.39 min Scan# 3215

Delta R.T. -0.08 min

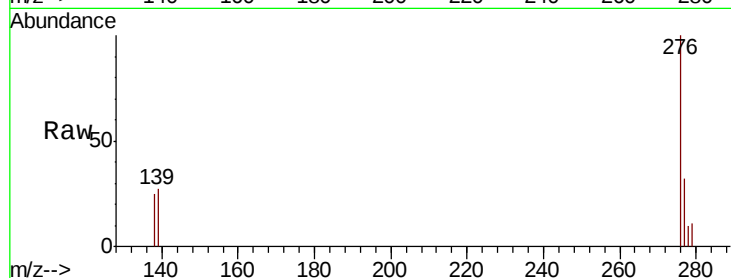
Lab File: BE098608.D

Acq: 2 Jan 2019 15:16

Instrument :

BNA_E

ClientSampleId :



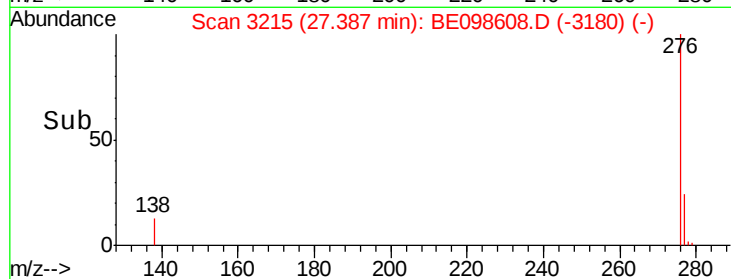
Tot Ion: 276 Resp: 4772

Ion Ratio Lower Upper

276 100

277 31.9 20.8 31.2#

138 25.5 15.8 23.6#



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

