

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE121918\
 Data File : BE098529.D
 Acq On : 19 Dec 2018 15:16
 Operator : SJ/JU
 Sample : J6358-12MSD
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 BP-TT-SW4002-20181211MSD

Quant Time: Dec 19 16:18:38 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE121018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 10 14:59:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.85	152	791	0.40	ng	-0.01
7) Naphthalene-d8	10.65	136	3804	0.40	ng	-0.01
13) Acenaphthene-d10	14.51	164	2660	0.40	ng	-0.01
19) Phenanthrene-d10	17.26	188	6459	0.40	ng	-0.02
27) Chrysene-d12	21.45	240	7857	0.40	ng	-0.01
34) Perylene-d12	23.99	264	6852	0.40	ng	-0.03

System Monitoring Compounds						
4) 2-Fluorophenol	5.44	112	527	0.28	ng	0.00
5) Phenol-d6	7.03	99	423	0.16	ng	-0.01
8) Nitrobenzene-d5	9.02	82	1470	0.42	ng	0.00
11) 2-Methylnaphthalene-d10	12.25	152	2832	0.46	ng	-0.01
14) 2,4,6-Tribromophenol	16.01	330	785	0.80	ng	-0.01
15) 2-Fluorobiphenyl	13.13	172	5491	0.49	ng	-0.01
25) Fluoranthene-d10	19.29	212	37419	0.45	ng	-0.02
29) Terphenyl-d14	19.89	244	8838	0.46	ng	-0.02

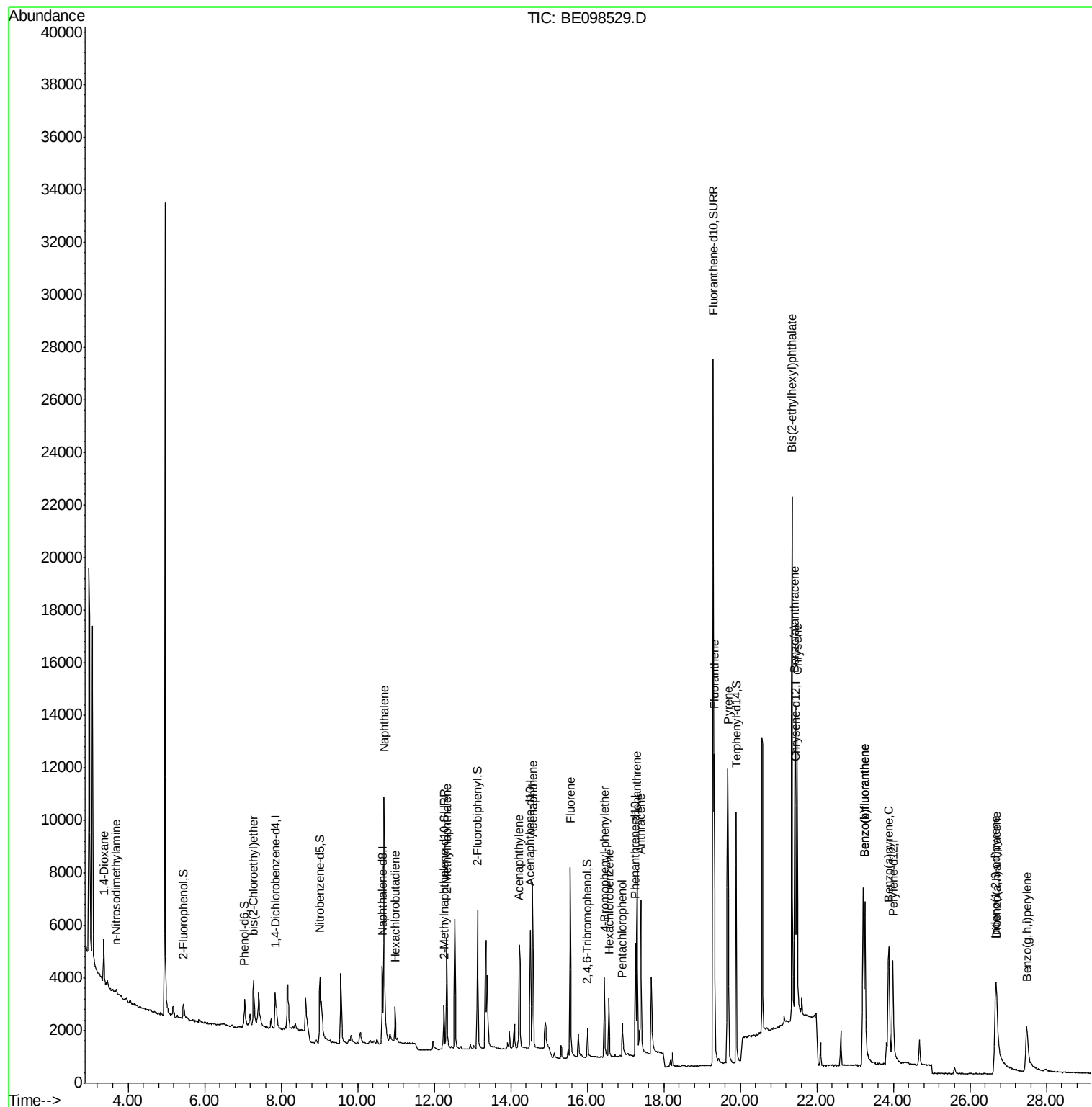
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.36	88	858	0.627	ng	# 82
3) n-Nitrosodimethylamine	3.69	42	142	0.115	ng	# 100
6) bis(2-Chloroethyl)ether	7.28	93	896	0.360	ng	93
9) Naphthalene	10.69	128	17780	0.464	ng	99
10) Hexachlorobutadiene	10.98	225	976	0.400	ng	96
12) 2-Methylnaphthalene	12.32	142	3255	0.523	ng	97
16) Acenaphthylene	14.23	152	5356	0.430	ng	97
17) Acenaphthene	14.57	154	3299	0.441	ng	98
18) Fluorene	15.55	166	4789	0.478	ng	99
20) 4-Bromophenyl-phenylether	16.45	248	1651	0.475	ng	# 86
21) Hexachlorobenzene	16.57	284	1768	0.473	ng	96
22) Pentachlorophenol	16.92	266	904	1.191	ng	97
23) Phenanthrene	17.30	178	7974	0.508	ng	99
24) Anthracene	17.40	178	6793	0.485	ng	100
26) Fluoranthene	19.32	202	10213	0.492	ng	98
28) Pyrene	19.68	202	10568	0.429	ng	99
30) Benzo(a)anthracene	21.43	228	10749	0.480	ng	98
31) Chrysene	21.49	228	10576	0.451	ng	99
32) Bis(2-ethylhexyl)phthalate	21.35	149	23893	0.526	ng	99
33) Indeno(1,2,3-cd)pyrene	26.67	276	8112	0.348	ng	95
35) Benzo(b)fluoranthene	23.26	252	10978	0.586	ng	96
36) Benzo(k)fluoranthene	23.26	252	10978	0.503	ng	99
37) Benzo(a)pyrene	23.87	252	9840	0.509	ng	97
38) Dibenzo(a,h)anthracene	26.69	278	6665	0.366	ng	# 93
39) Benzo(g,h,i)perylene	27.48	276	6011	0.328	ng	97

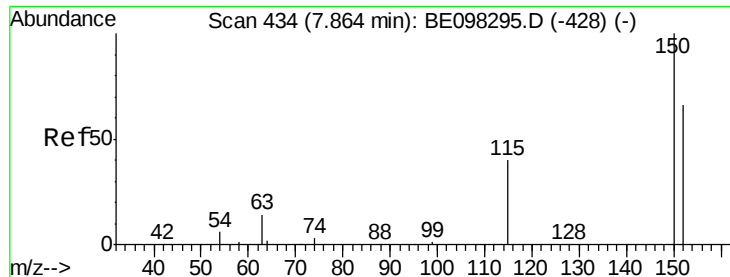
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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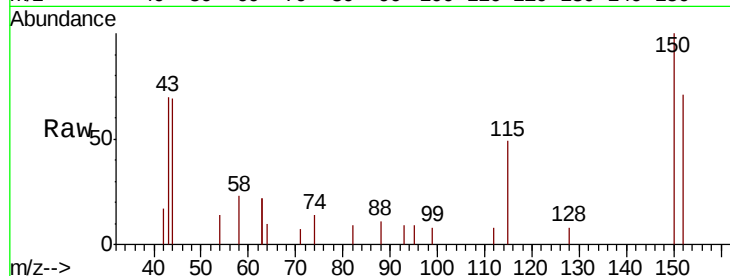


#1

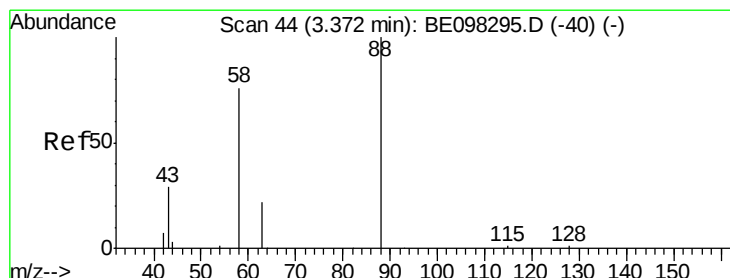
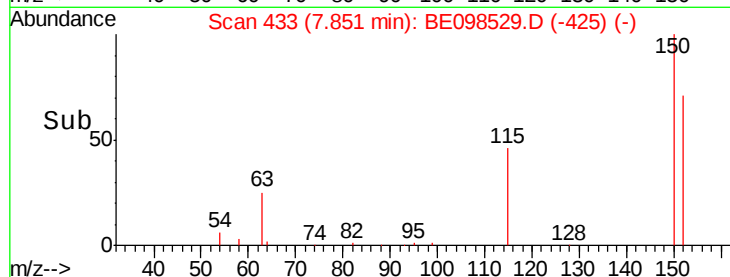
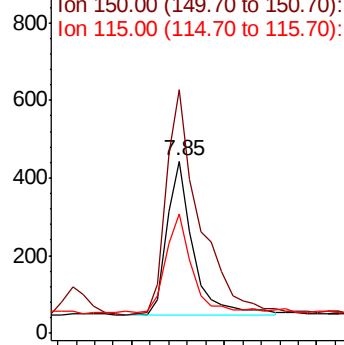
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.85 min Scan# 433
Delta R.T. -0.01 min
Lab File: BE098529.D
Acq: 19 Dec 2018 15:16

Instrument :
BNA_E
ClientSampleId :
BP-TT-SW4002-20181211MSD

Tot Ion:152 Resp: 791
Ion Ratio Lower Upper
152 100
150 141.2 124.2 186.4
115 69.6 53.9 80.9



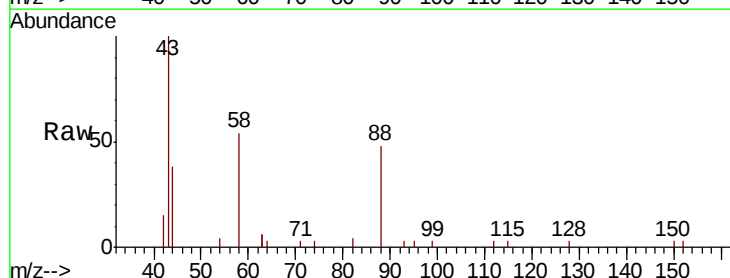
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



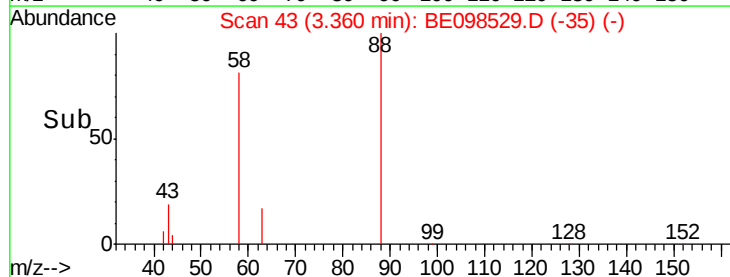
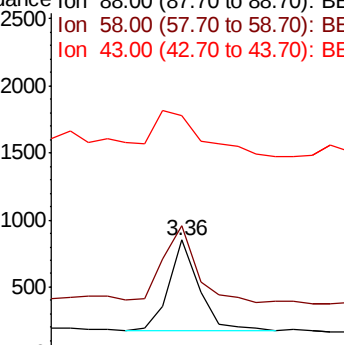
#2

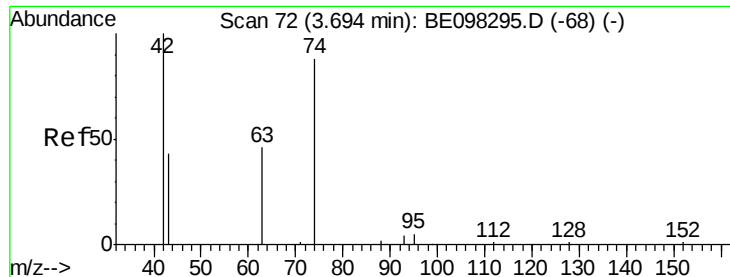
1,4-Dioxane
Concen: 0.627 ng
RT: 3.36 min Scan# 43
Delta R.T. -0.01 min
Lab File: BE098529.D
Acq: 19 Dec 2018 15:16

Tgt Ion: 88 Resp: 858
Ion Ratio Lower Upper
88 100
58 95.3 75.0 112.6
43 82.3 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: 0.115 ng

RT: 3.69 min Scan# 72

Delta R.T. -0.00 min

Lab File: BE098529.D

Acq: 19 Dec 2018 15:16

Instrument :

BNA_E

ClientSampleId :

BP-TT-SW4002-20181211MSD

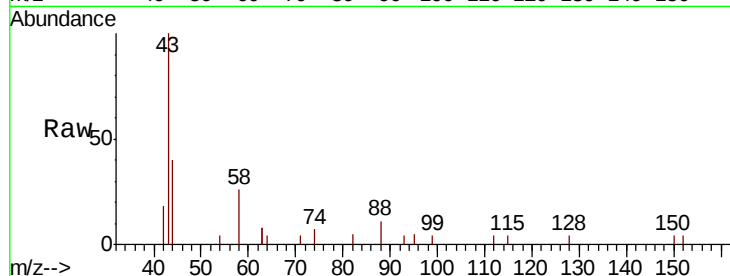
Tot Ion: 42 Resp: 142

Ion Ratio Lower Upper

42 100

74 79.6 0.0 0.0#

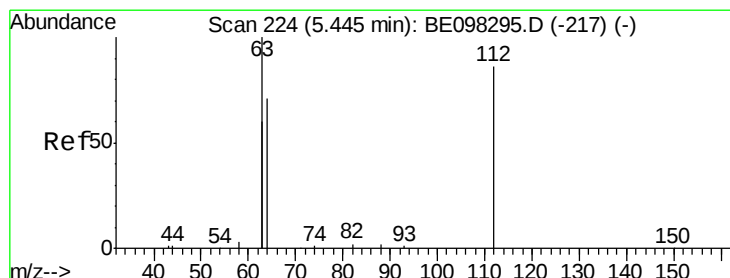
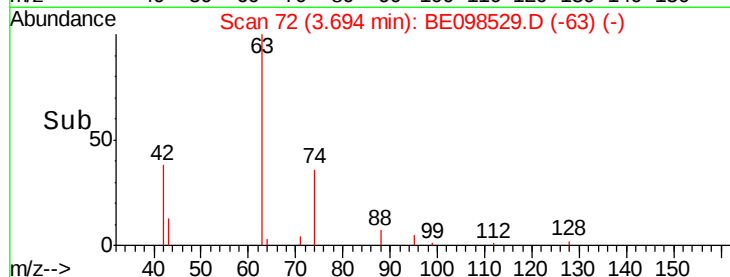
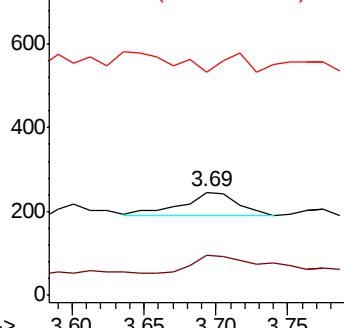
44 0.0 0.0 0.0



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: 0.285 ng

RT: 5.44 min Scan# 224

Delta R.T. -0.00 min

Lab File: BE098529.D

Acq: 19 Dec 2018 15:16

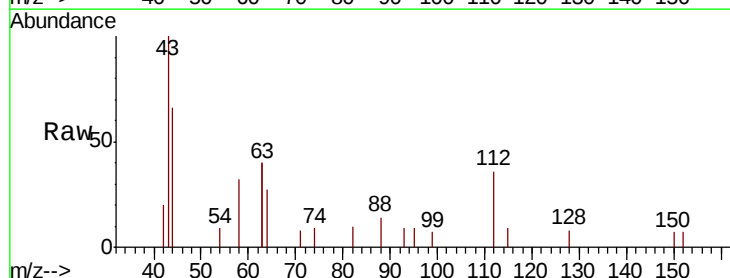
Tgt Ion: 112 Resp: 527

Ion Ratio Lower Upper

112 100

64 78.0 59.8 89.8

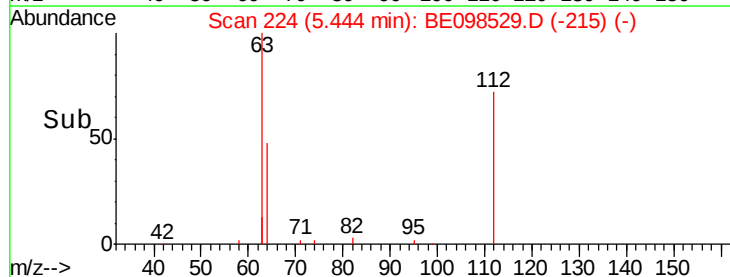
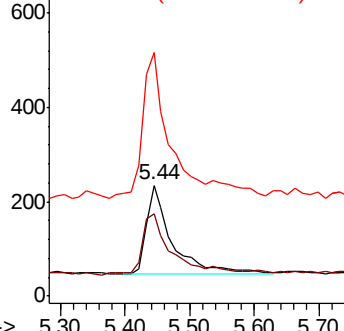
63 161.5 133.7 200.5

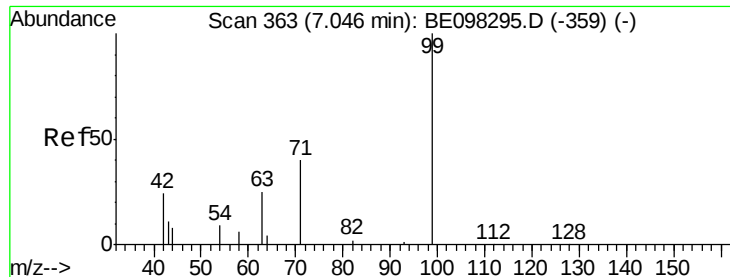


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.161 ng

RT: 7.03 min Scan# 362

Delta R.T. -0.01 min

Lab File: BE098529.D

Acq: 19 Dec 2018 15:16

Instrument :

BNA_E

ClientSampleId :

BP-TT-SW4002-20181211MSD

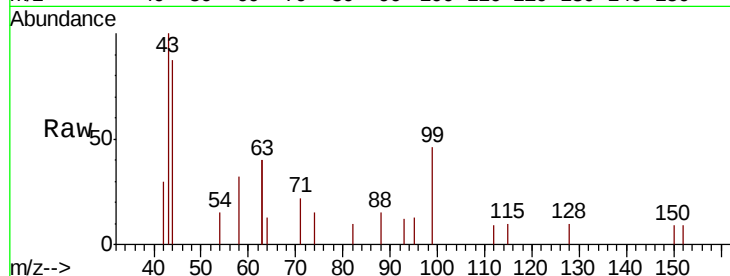
Tot Ion: 99 Resp: 423

Ion Ratio Lower Upper

99 100

42 39.5 26.3 39.5

71 50.6 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

300

250

200

150

100

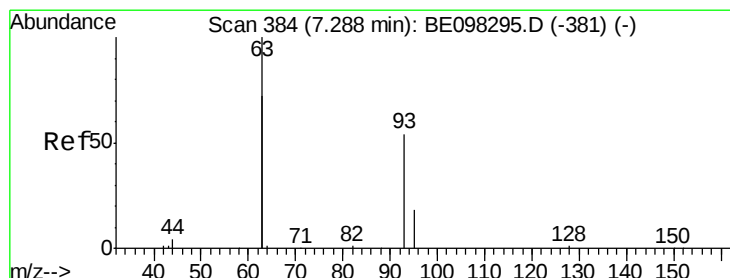
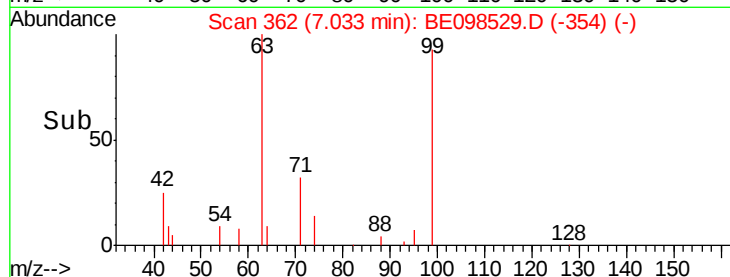
50

0

7.00

7.10

Time-->



#6

bis(2-Chloroethyl)ether

Concen: 0.360 ng

RT: 7.28 min Scan# 383

Delta R.T. -0.01 min

Lab File: BE098529.D

Acq: 19 Dec 2018 15:16

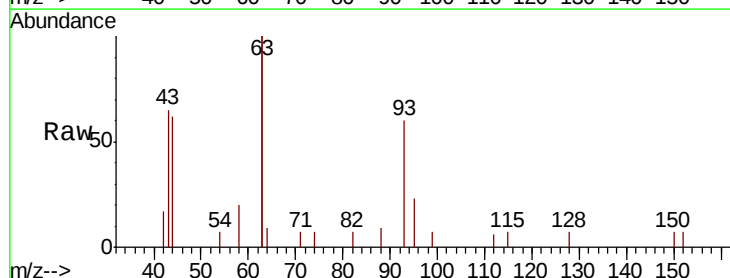
Tgt Ion: 93 Resp: 896

Ion Ratio Lower Upper

93 100

63 345.5 264.4 396.6

95 37.7 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

2000

1500

1000

500

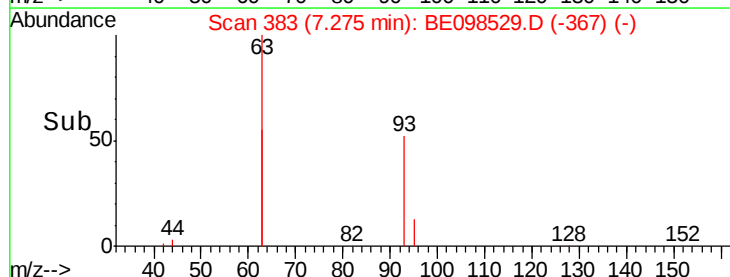
0

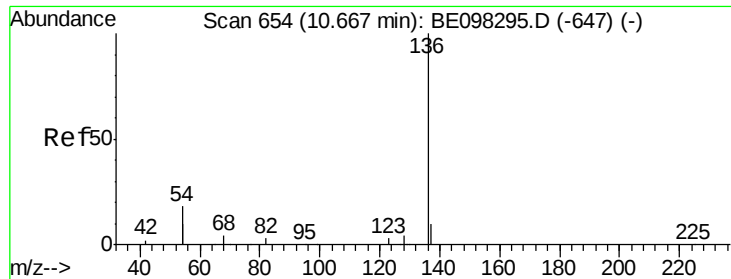
7.20

7.30

7.40

Time-->





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.65 min Scan# 653

Delta R.T. -0.01 min

Lab File: BE098529.D

Acq: 19 Dec 2018 15:16

Instrument :

BNA_E

ClientSampleId :

BP-TT-SW4002-20181211MSD

Tot Ion:136 Resp: 3804

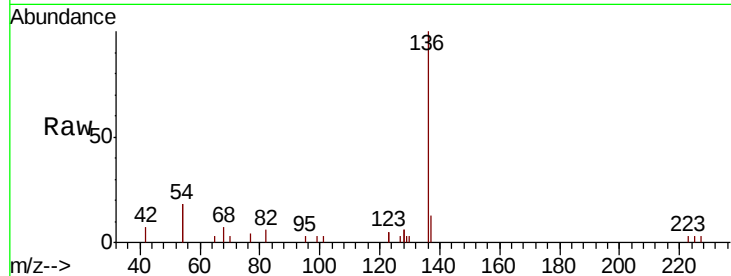
Ion Ratio Lower Upper

136 100

137 12.8 9.2 13.8

54 35.8 28.4 42.6

68 7.2 5.4 8.0

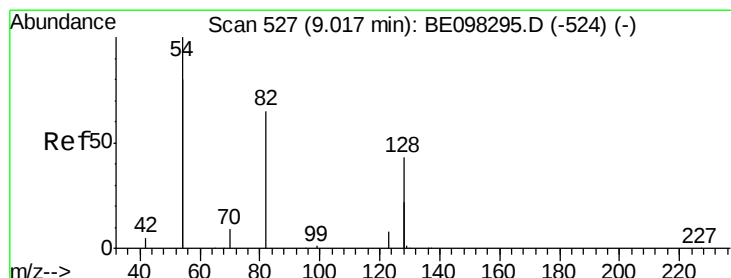
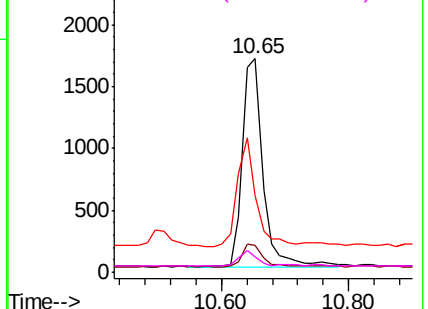
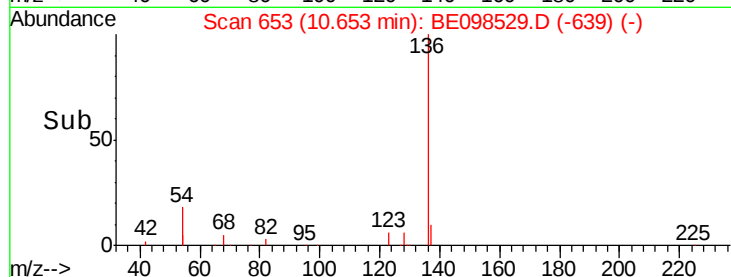


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.425 ng

RT: 9.02 min Scan# 527

Delta R.T. -0.00 min

Lab File: BE098529.D

Acq: 19 Dec 2018 15:16

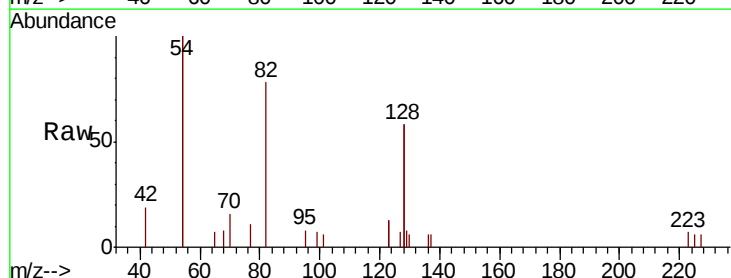
Tgt Ion: 82 Resp: 1470

Ion Ratio Lower Upper

82 100

128 147.9 102.4 153.6

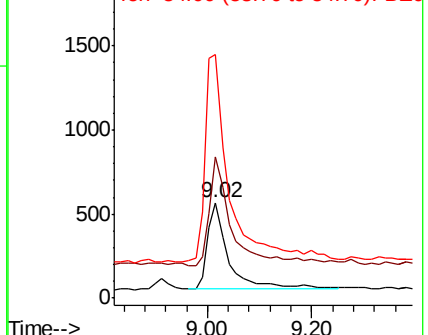
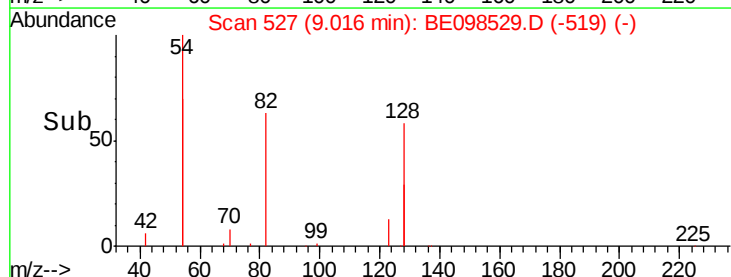
54 254.9 221.8 332.8

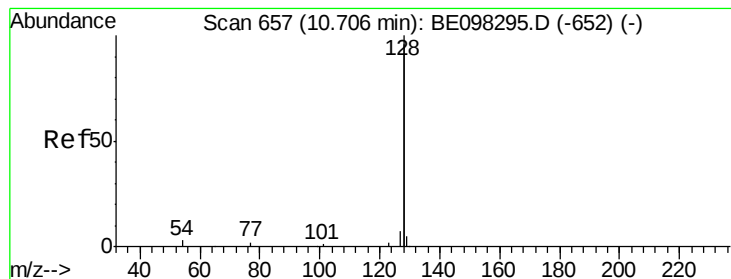


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.464 ng

RT: 10.69 min Scan# 656

Delta R.T. -0.01 min

Lab File: BE098529.D

Acq: 19 Dec 2018 15:16

Instrument :

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ClientSampleId :

BP-TT-SW4002-20181211MSD

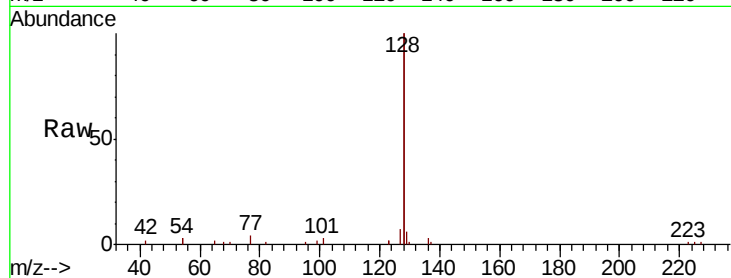
Tot Ion:128 Resp: 17780

Ion Ratio Lower Upper

128 100

129 3.1 2.5 3.7

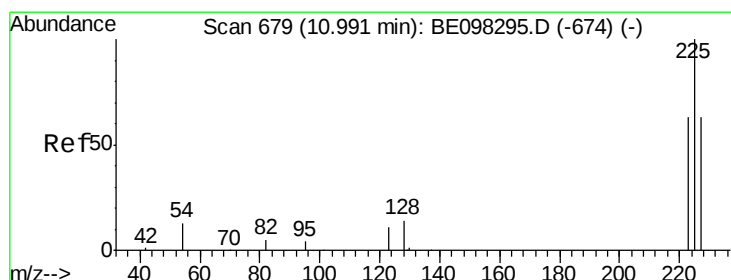
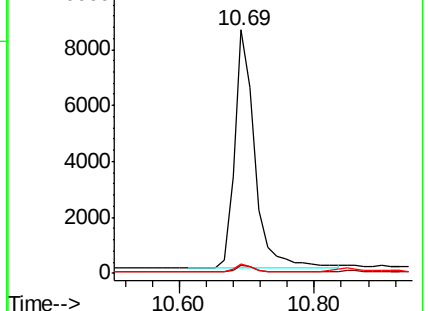
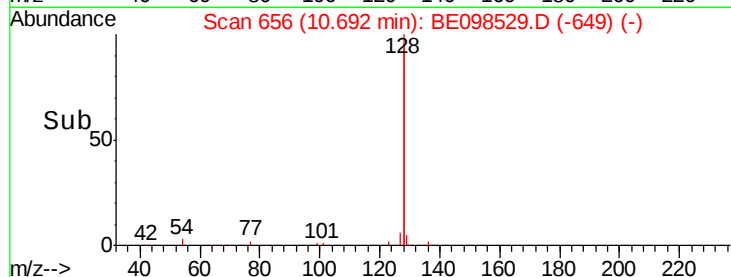
127 3.7 2.7 4.1



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: 0.400 ng

RT: 10.98 min Scan# 678

Delta R.T. -0.01 min

Lab File: BE098529.D

Acq: 19 Dec 2018 15:16

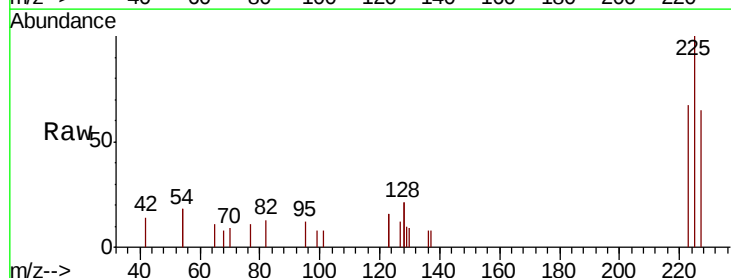
Tgt Ion:225 Resp: 976

Ion Ratio Lower Upper

225 100

223 62.8 49.4 74.0

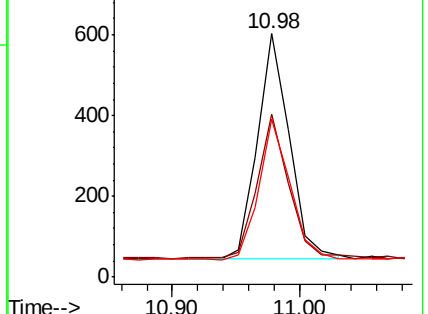
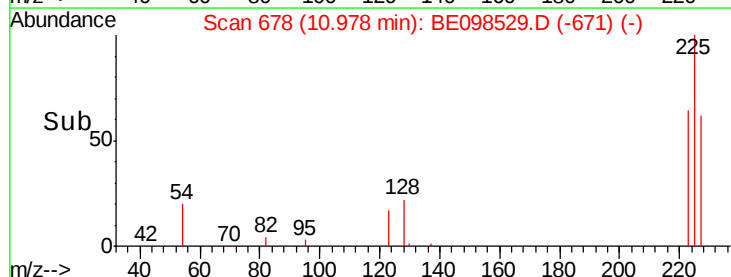
227 59.6 52.0 78.0

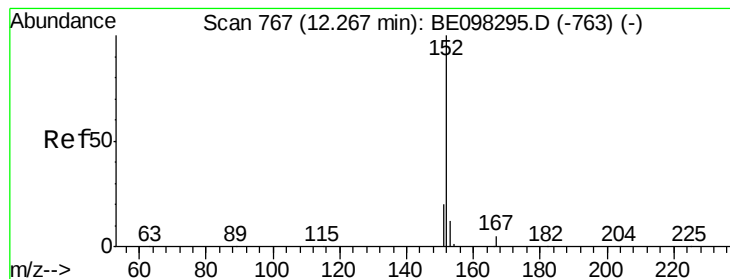


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.458 ng

RT: 12.25 min Scan# 766

Delta R.T. -0.01 min

Lab File: BE098529.D

Acq: 19 Dec 2018 15:16

Instrument :

BNA_E

ClientSampleId :

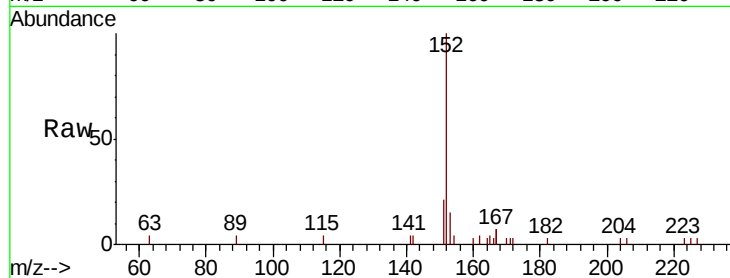
BP-TT-SW4002-20181211MSD

Tot Ion:152 Resp: 2832

Ion Ratio Lower Upper

152 100

151 18.6 16.2 24.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

12.25

1500

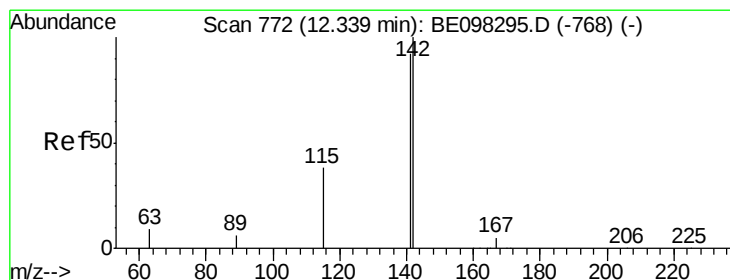
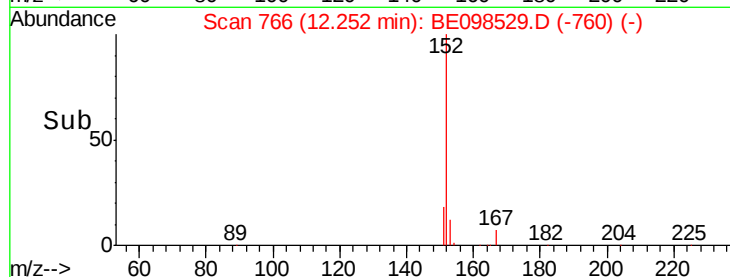
1000

500

0

12.20 12.40

Time-->



#12

2-Methylnaphthalene

Concen: 0.523 ng

RT: 12.32 min Scan# 771

Delta R.T. -0.01 min

Lab File: BE098529.D

Acq: 19 Dec 2018 15:16

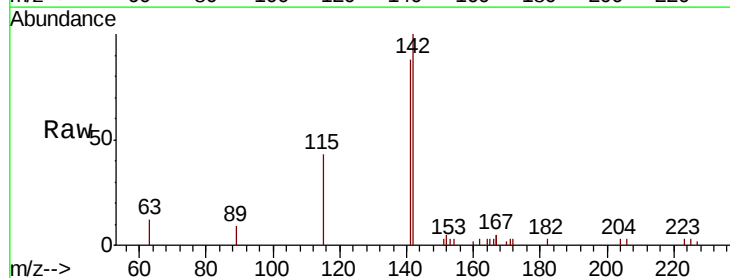
Tgt Ion:142 Resp: 3255

Ion Ratio Lower Upper

142 100

141 87.6 71.0 106.6

115 43.5 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

12.32

2000

1500

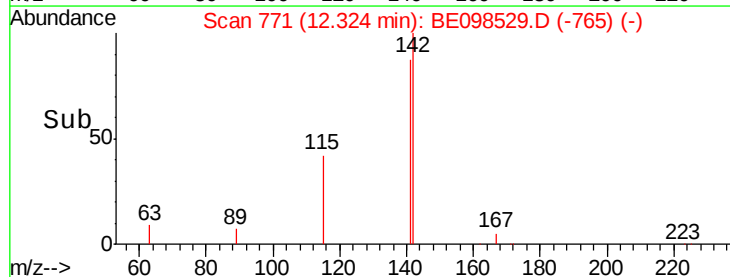
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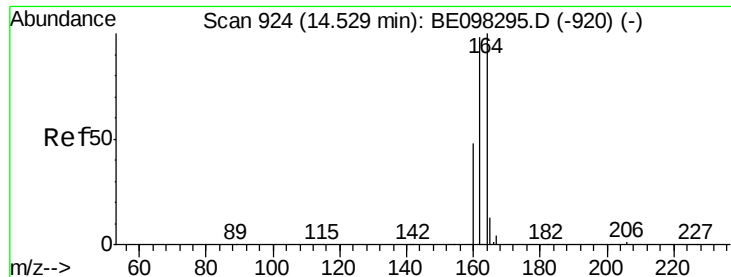
500

0

12.30 12.40

Time-->

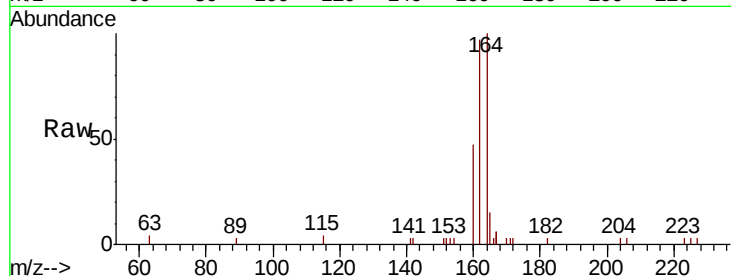




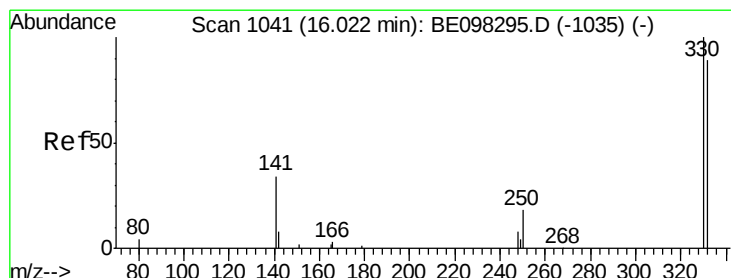
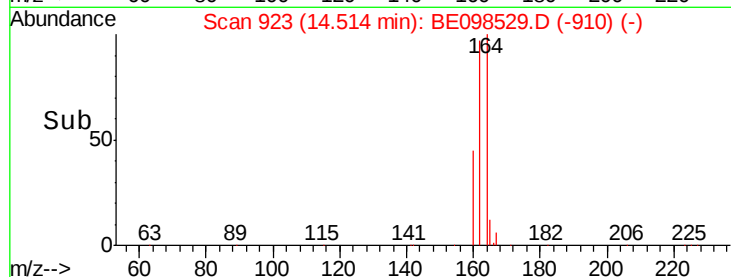
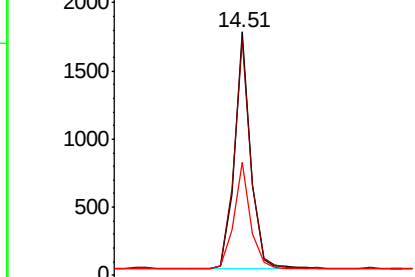
#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.51 min Scan# 923
 Delta R.T. -0.01 min
 Lab File: BE098529.D
 Acq: 19 Dec 2018 15:16

Instrument :
 BNA_E
 ClientSampleId :
 BP-TT-SW4002-20181211MSD

Tot Ion:164 Resp: 2660
 Ion Ratio Lower Upper
 164 100
 162 96.9 77.6 116.4
 160 46.6 36.0 54.0

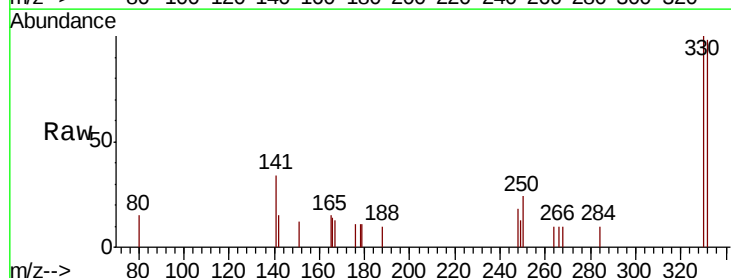


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

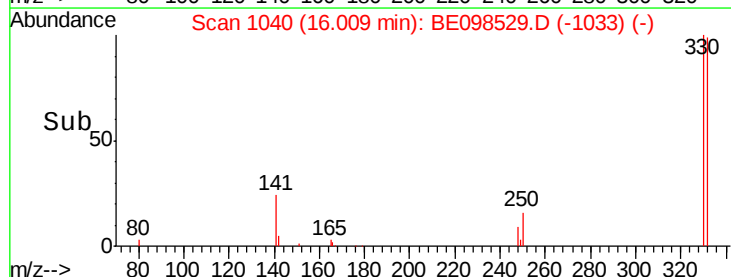
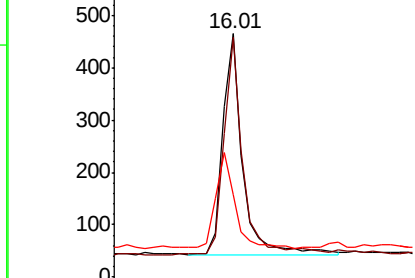


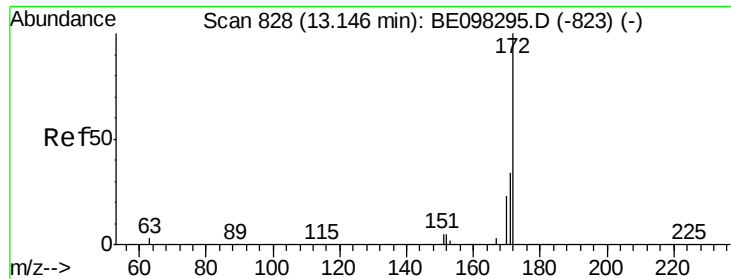
#14
 2,4,6-Tribromophenol
 Concen: 0.804 ng
 RT: 16.01 min Scan# 1040
 Delta R.T. -0.01 min
 Lab File: BE098529.D
 Acq: 19 Dec 2018 15:16

Tgt Ion:330 Resp: 785
 Ion Ratio Lower Upper
 330 100
 332 94.6 76.2 114.4
 141 40.6 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

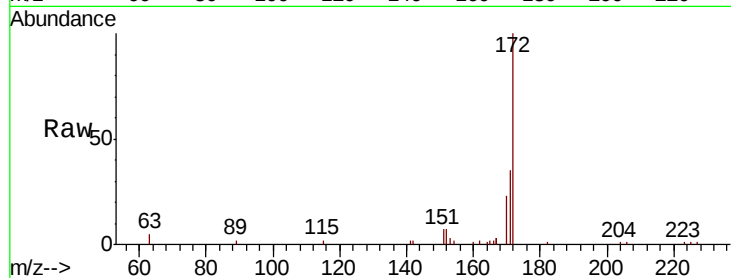




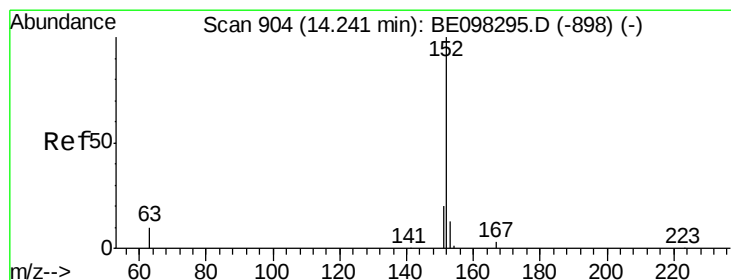
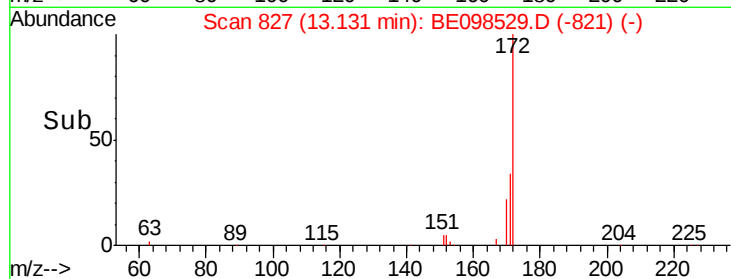
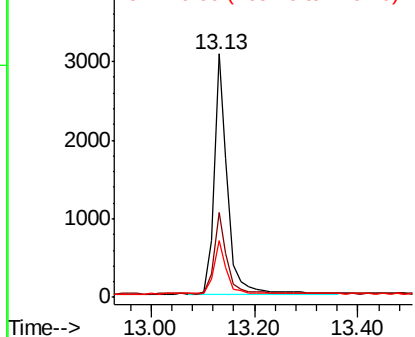
#15
2-Fluorobiphenyl
Concen: 0.489 ng
RT: 13.13 min Scan# 827
Delta R.T. -0.01 min
Lab File: BE098529.D
Acq: 19 Dec 2018 15:16

Instrument :
BNA_E
ClientSampleId :
BP-TT-SW4002-20181211MSD

Tot Ion:172 Resp: 5491
Ion Ratio Lower Upper
172 100
171 35.0 27.5 41.3
170 23.5 19.6 29.4

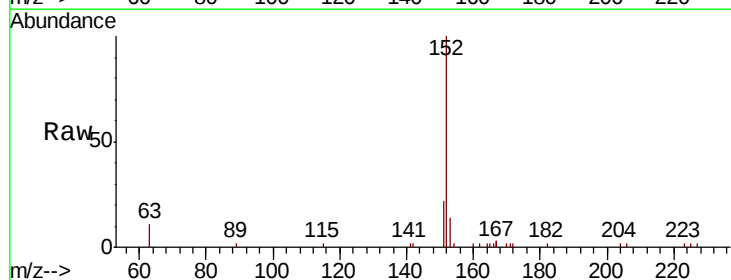


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

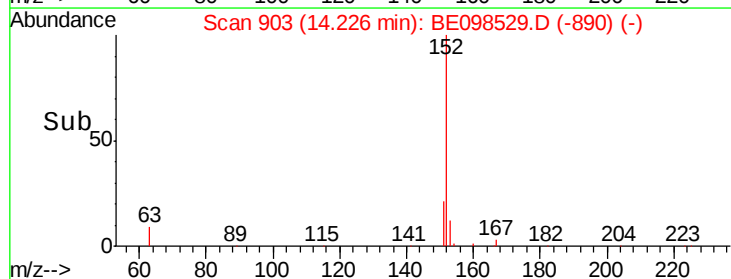
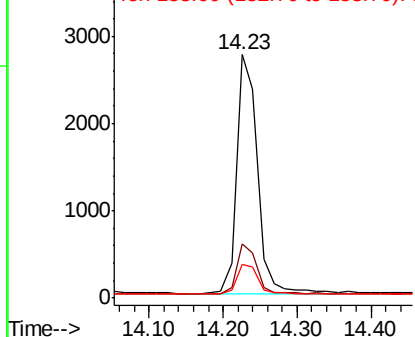


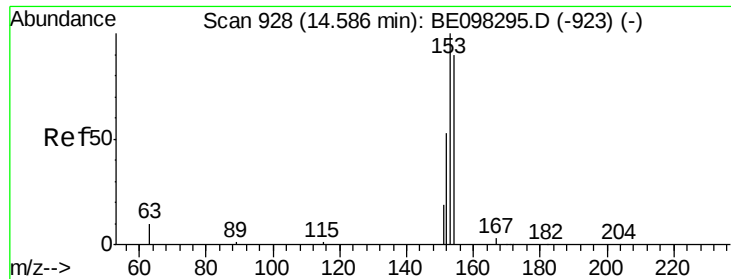
#16
Acenaphthylene
Concen: 0.430 ng
RT: 14.23 min Scan# 903
Delta R.T. -0.01 min
Lab File: BE098529.D
Acq: 19 Dec 2018 15:16

Tgt Ion:152 Resp: 5356
Ion Ratio Lower Upper
152 100
151 21.0 15.5 23.3
153 12.8 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

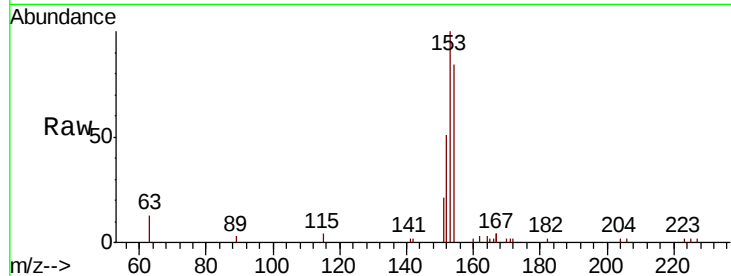




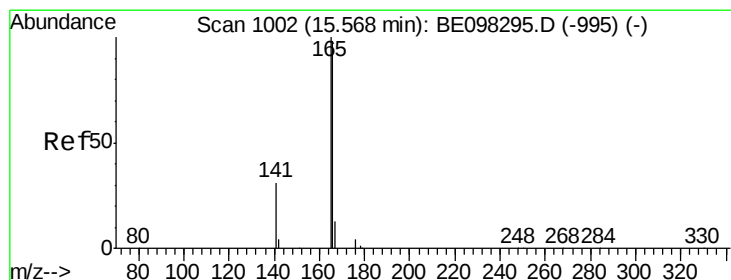
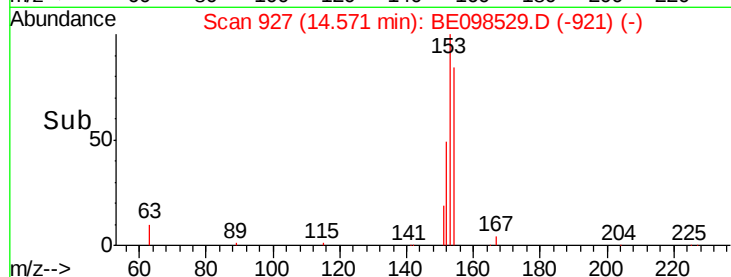
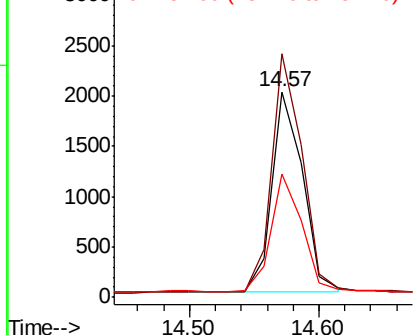
#17
Acenaphthene
Concen: 0.441 ng
RT: 14.57 min Scan# 927
Delta R.T. -0.01 min
Lab File: BE098529.D
Acq: 19 Dec 2018 15:16

Instrument :
BNA_E
ClientSampleId :
BP-TT-SW4002-20181211MSD

Tot Ion:154 Resp: 3299
Ion Ratio Lower Upper
154 100
153 117.2 91.8 137.6
152 59.0 45.5 68.3

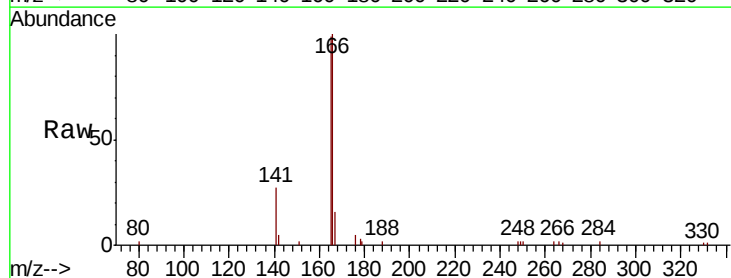


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

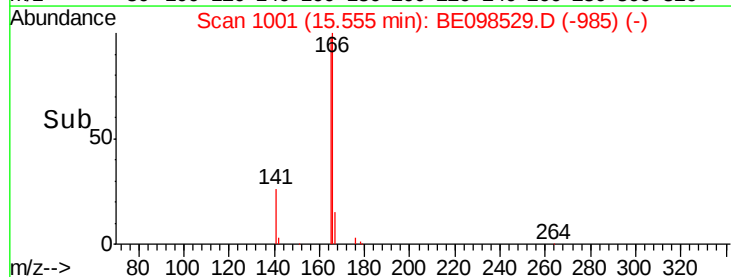
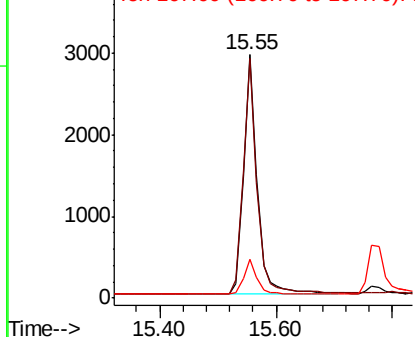


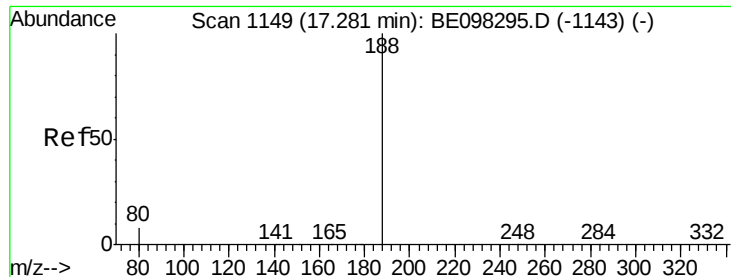
#18
Fluorene
Concen: 0.478 ng
RT: 15.55 min Scan# 1001
Delta R.T. -0.01 min
Lab File: BE098529.D
Acq: 19 Dec 2018 15:16

Tgt Ion:166 Resp: 4789
Ion Ratio Lower Upper
166 100
165 97.7 79.3 118.9
167 13.4 11.3 16.9



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: 17.26 min Scan# 1147

Delta R.T. -0.02 min

Lab File: BE098529.D

Acq: 19 Dec 2018 15:16

Instrument :

BNA_E

ClientSampleId :

BP-TT-SW4002-20181211MSD

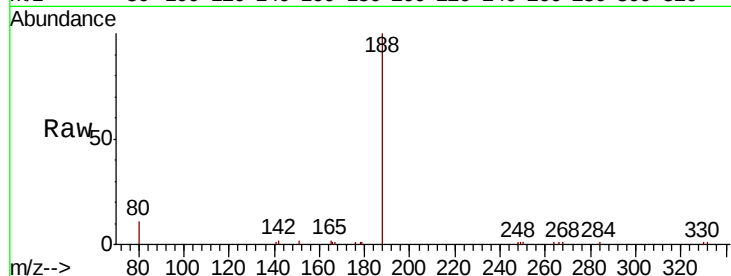
Tot Ion:188 Resp: 6459

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

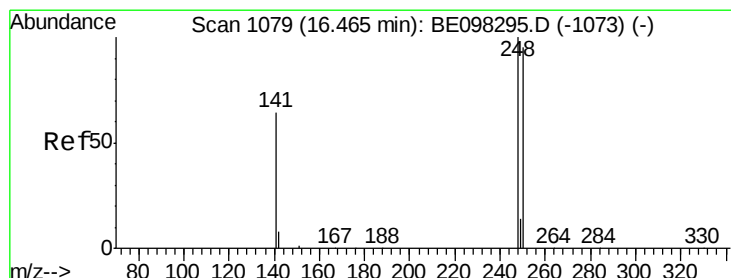
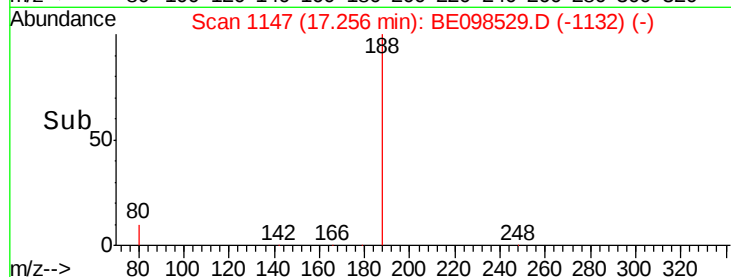
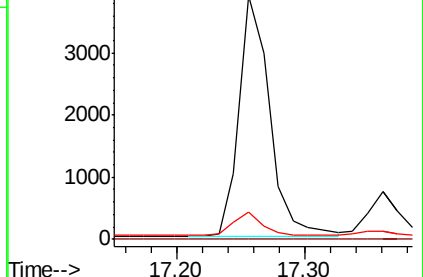
80 11.3 7.2 10.8#



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: 0.475 ng

RT: 16.45 min Scan# 1078

Delta R.T. -0.01 min

Lab File: BE098529.D

Acq: 19 Dec 2018 15:16

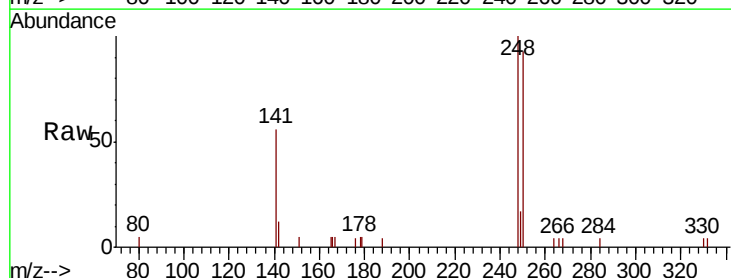
Tgt Ion:248 Resp: 1651

Ion Ratio Lower Upper

248 100

250 93.4 71.0 106.6

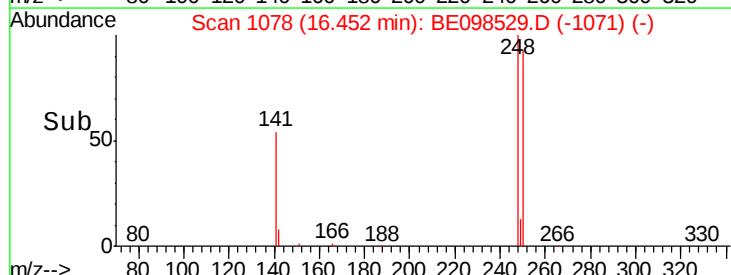
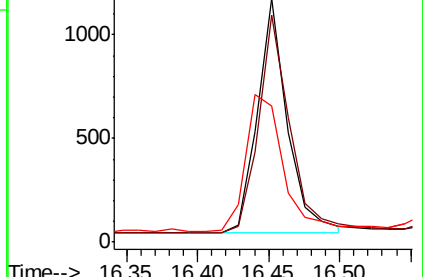
141 56.2 62.1 93.1#

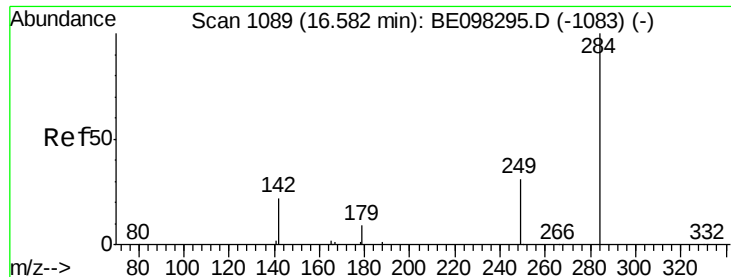


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.473 ng

RT: 16.57 min Scan# 1088

Delta R.T. -0.01 min

Lab File: BE098529.D

Acq: 19 Dec 2018 15:16

Instrument :

BNA_E

ClientSampleId :

BP-TT-SW4002-20181211MSD

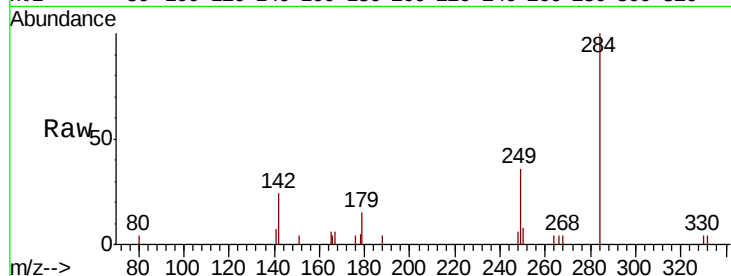
Tot Ion:284 Resp: 1768

Ion Ratio Lower Upper

284 100

142 34.8 26.3 39.5

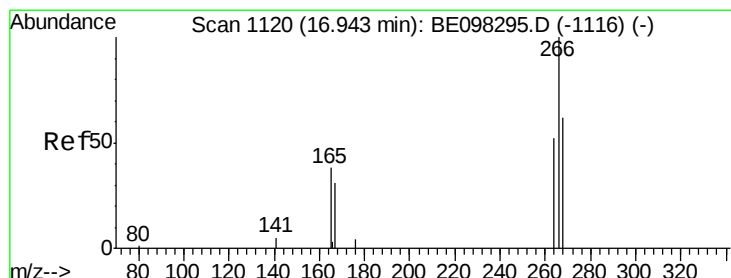
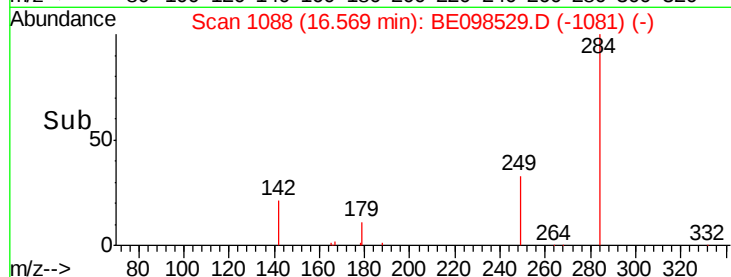
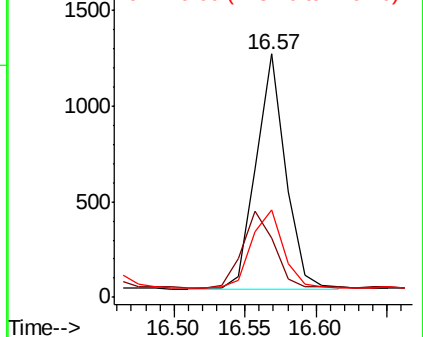
249 35.2 26.0 39.0



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: 1.191 ng

RT: 16.92 min Scan# 1118

Delta R.T. -0.02 min

Lab File: BE098529.D

Acq: 19 Dec 2018 15:16

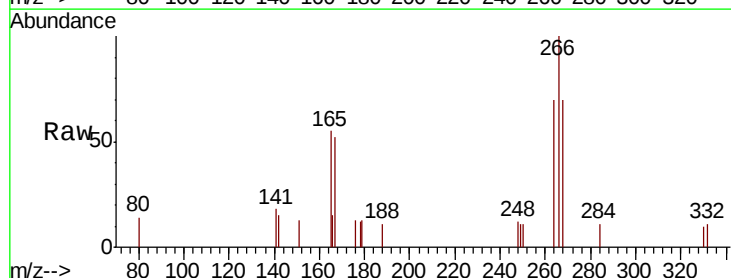
Tgt Ion:266 Resp: 904

Ion Ratio Lower Upper

266 100

264 70.3 59.0 88.4

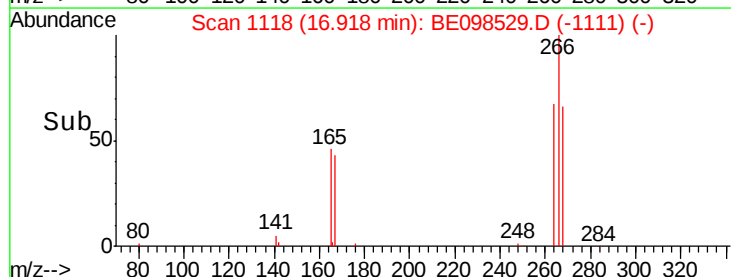
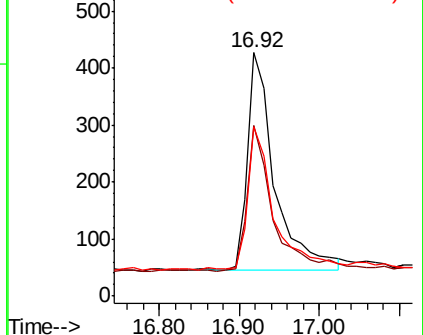
268 69.8 55.1 82.7

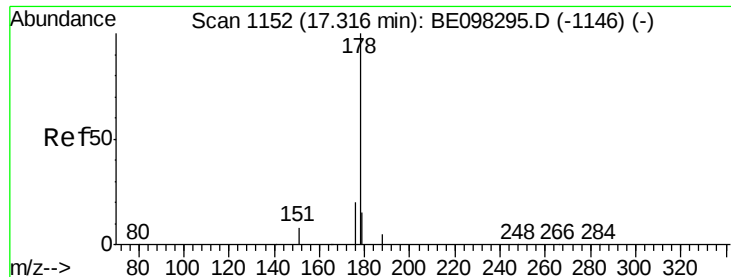


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.508 ng

RT: 17.30 min Scan# 1151

Delta R.T. -0.01 min

Lab File: BE098529.D

Acq: 19 Dec 2018 15:16

Instrument :

BNA_E

ClientSampleId :

BP-TT-SW4002-20181211MSD

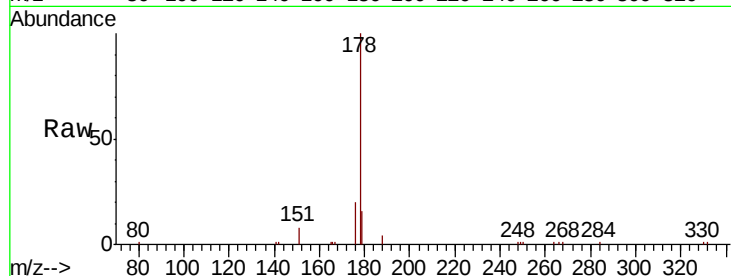
Tot Ion:178 Resp: 7974

Ion Ratio Lower Upper

178 100

176 19.6 15.9 23.9

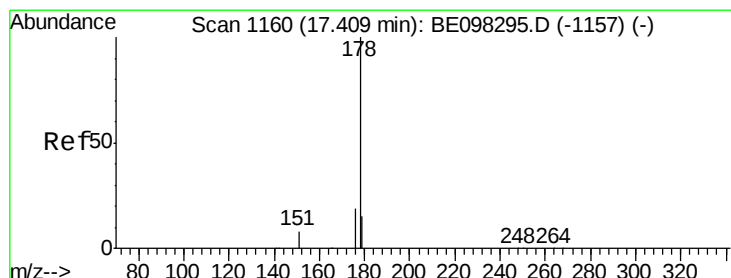
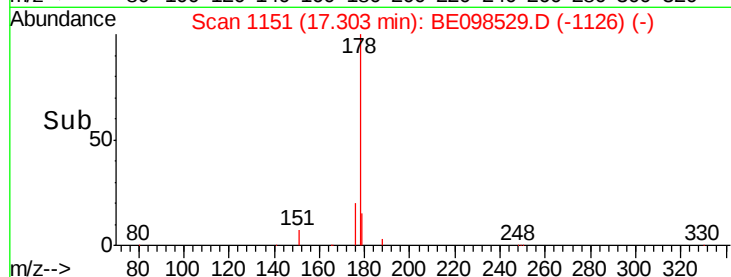
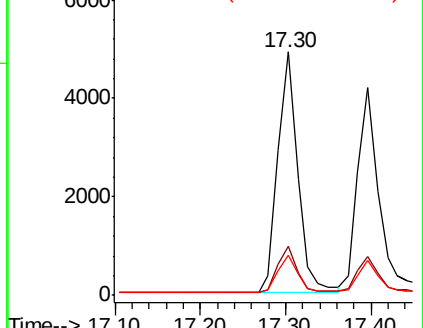
179 15.9 12.3 18.5



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: 0.485 ng

RT: 17.40 min Scan# 1159

Delta R.T. -0.01 min

Lab File: BE098529.D

Acq: 19 Dec 2018 15:16

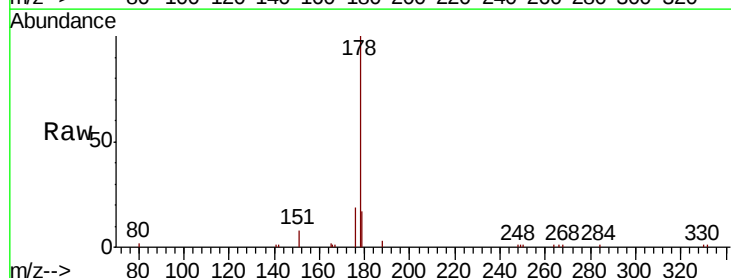
Tgt Ion:178 Resp: 6793

Ion Ratio Lower Upper

178 100

176 18.9 15.0 22.4

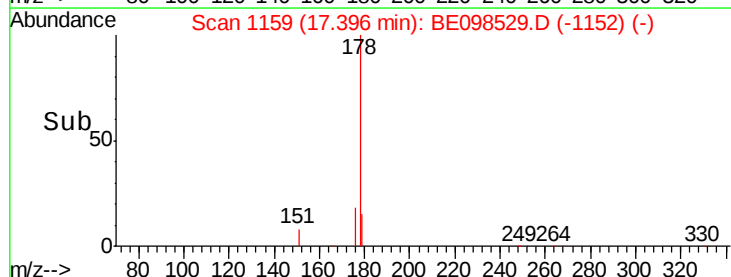
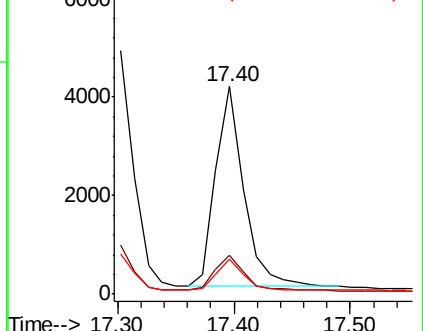
179 15.3 12.3 18.5

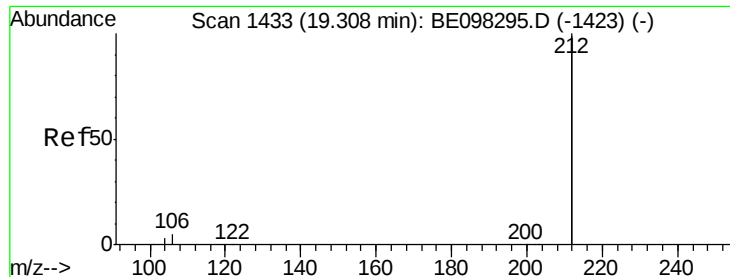


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.452 ng

RT: 19.29 min Scan# 1430

Delta R.T. -0.02 min

Lab File: BE098529.D

Acq: 19 Dec 2018 15:16

Instrument :

BNA_E

ClientSampleId :

BP-TT-SW4002-20181211MSD

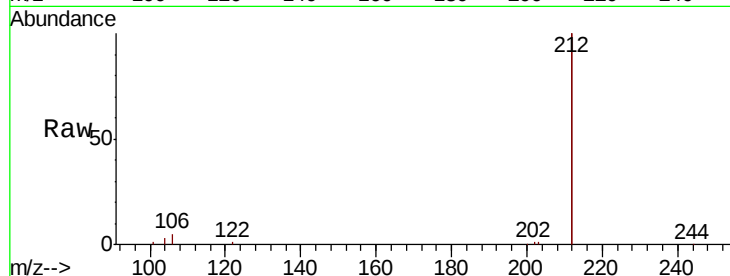
Tot Ion:212 Resp: 37419

Ion Ratio Lower Upper

212 100

106 2.5 2.2 3.2

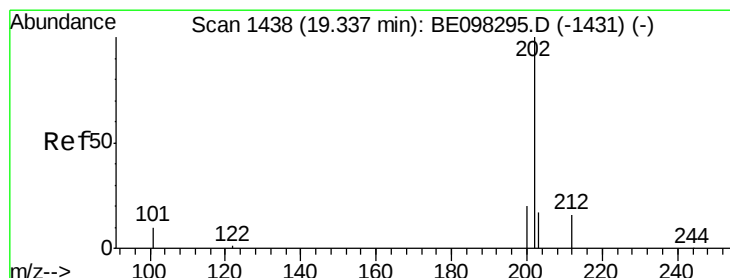
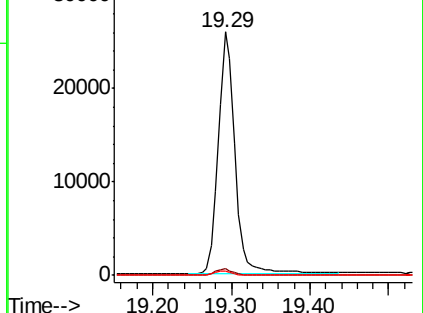
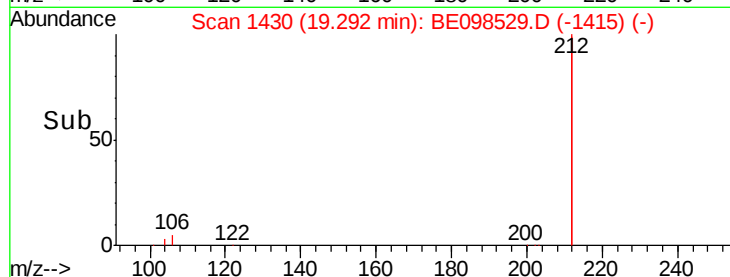
104 1.4 1.3 1.9



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: 0.492 ng

RT: 19.32 min Scan# 1435

Delta R.T. -0.02 min

Lab File: BE098529.D

Acq: 19 Dec 2018 15:16

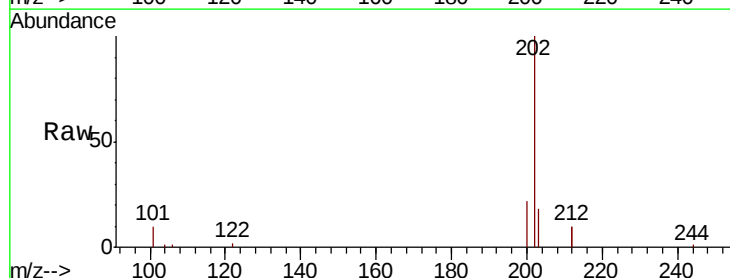
Tgt Ion:202 Resp: 10213

Ion Ratio Lower Upper

202 100

101 9.0 8.0 12.0

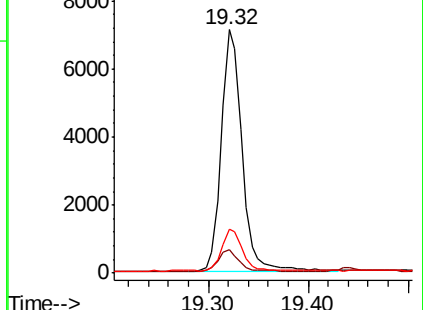
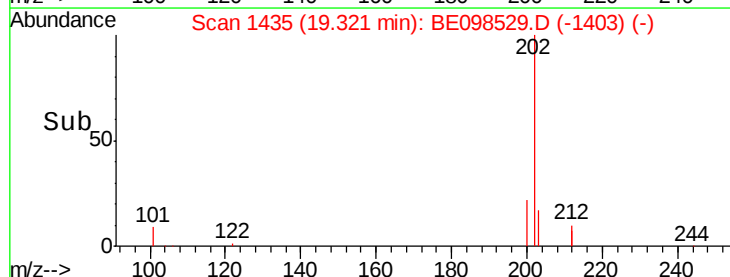
203 16.7 13.8 20.6

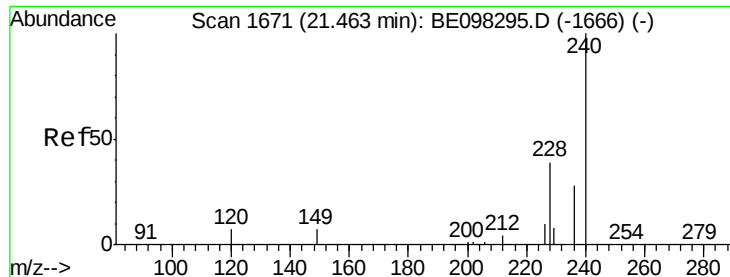


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.45 min Scan# 1670

Delta R.T. -0.01 min

Lab File: BE098529.D

Acq: 19 Dec 2018 15:16

Instrument :

BNA_E

ClientSampleId :

BP-TT-SW4002-20181211MSD

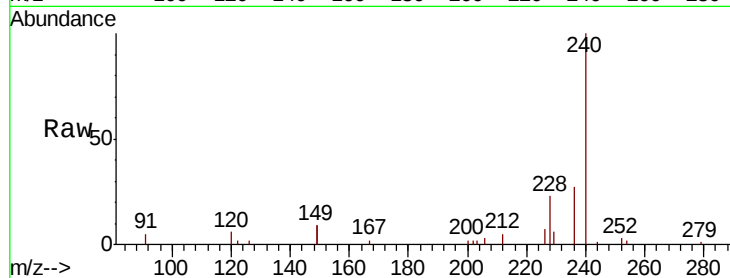
Tot Ion:240 Resp: 7857

Ion Ratio Lower Upper

240 100

120 5.7 9.5 14.3#

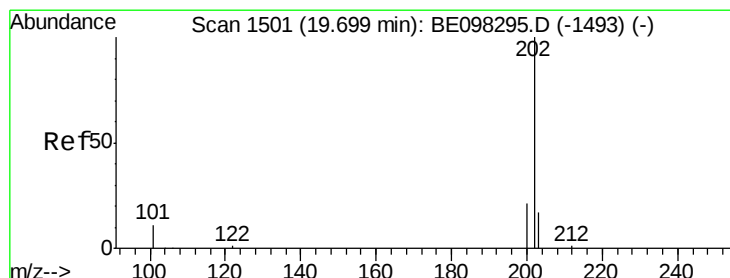
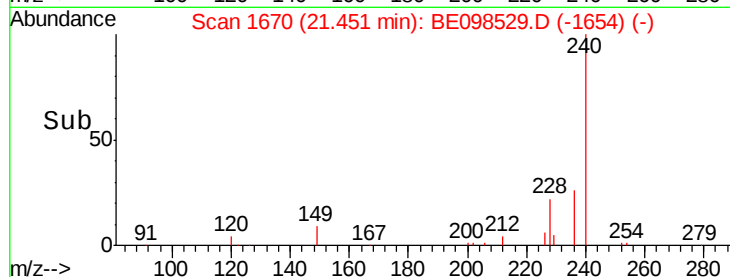
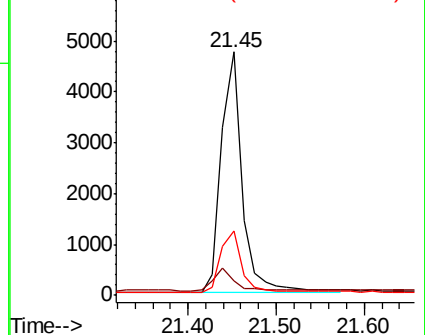
236 26.7 22.7 34.1



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: 0.429 ng

RT: 19.68 min Scan# 1498

Delta R.T. -0.02 min

Lab File: BE098529.D

Acq: 19 Dec 2018 15:16

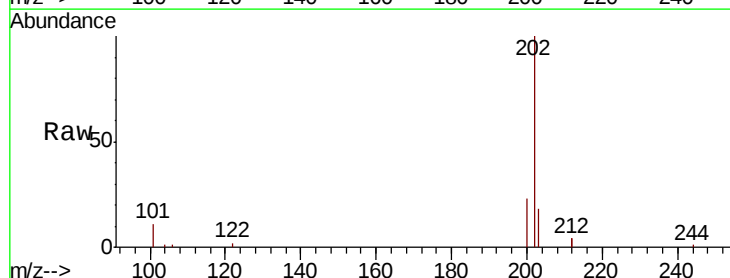
Tgt Ion:202 Resp: 10568

Ion Ratio Lower Upper

202 100

200 21.4 16.7 25.1

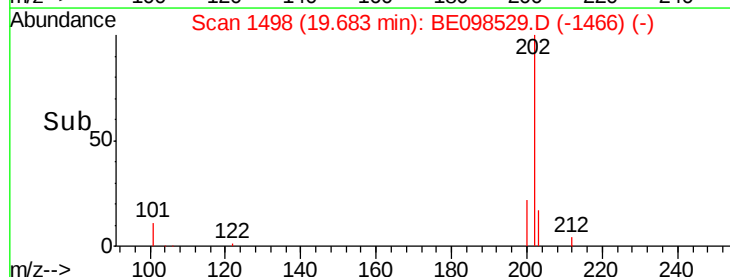
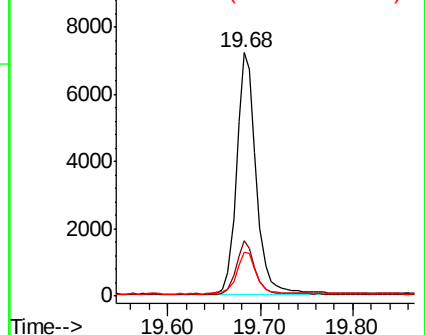
203 18.1 14.1 21.1

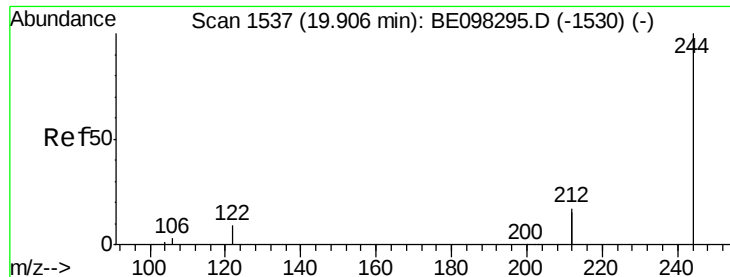


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.463 ng

RT: 19.89 min Scan# 1534

Delta R.T. -0.02 min

Lab File: BE098529.D

Acq: 19 Dec 2018 15:16

Instrument :

BNA_E

ClientSampleId :

BP-TT-SW4002-20181211MSD

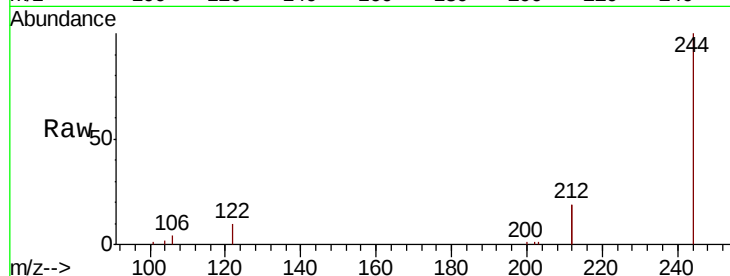
Tot Ion:244 Resp: 8838

Ion Ratio Lower Upper

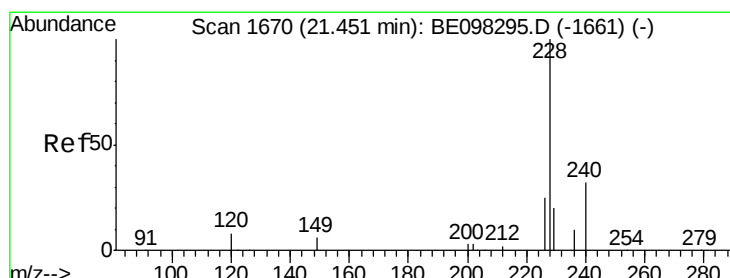
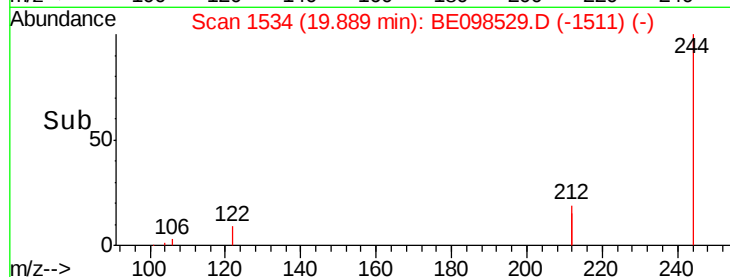
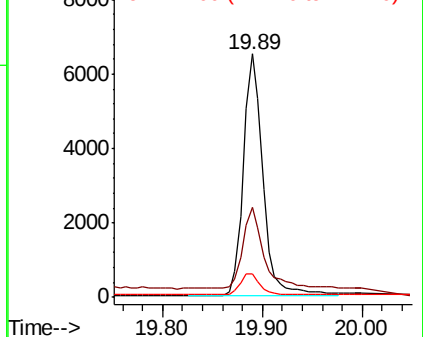
244 100

212 37.0 27.4 41.0

122 9.6 8.3 12.5



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: 0.480 ng

RT: 21.43 min Scan# 1668

Delta R.T. -0.02 min

Lab File: BE098529.D

Acq: 19 Dec 2018 15:16

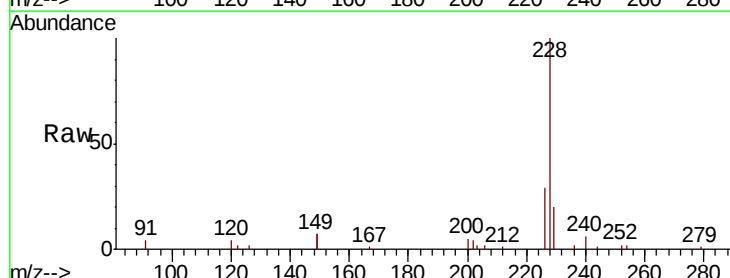
Tgt Ion:228 Resp: 10749

Ion Ratio Lower Upper

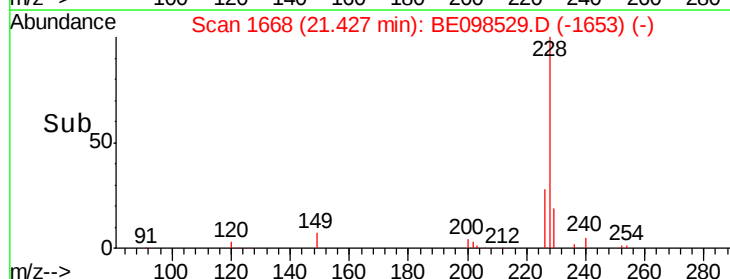
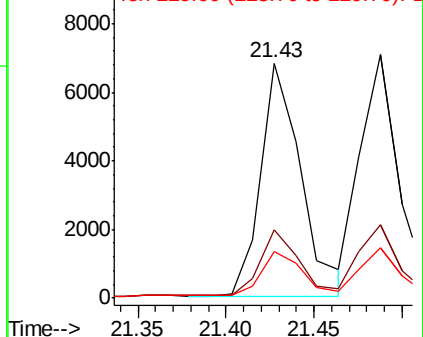
228 100

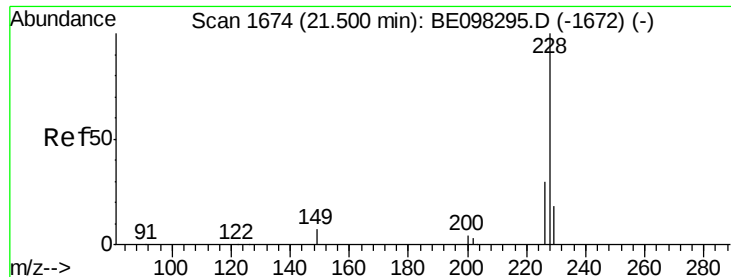
226 28.8 21.8 32.8

229 20.0 16.3 24.5



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: 0.451 ng

RT: 21.49 min Scan# 1673

Delta R.T. -0.01 min

Lab File: BE098529.D

Acq: 19 Dec 2018 15:16

Instrument :

BNA_E

ClientSampleId :

BP-TT-SW4002-20181211MSD

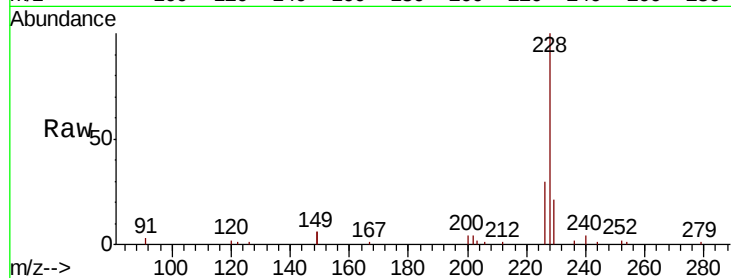
Tot Ion:228 Resp: 10576

Ion Ratio Lower Upper

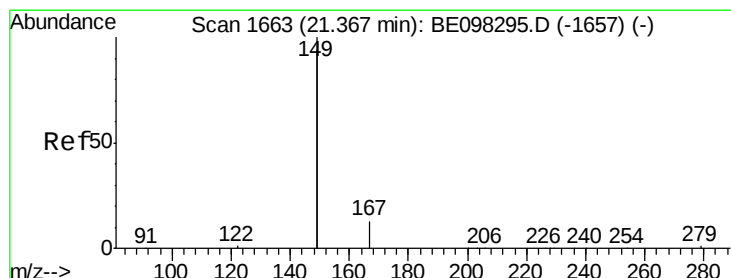
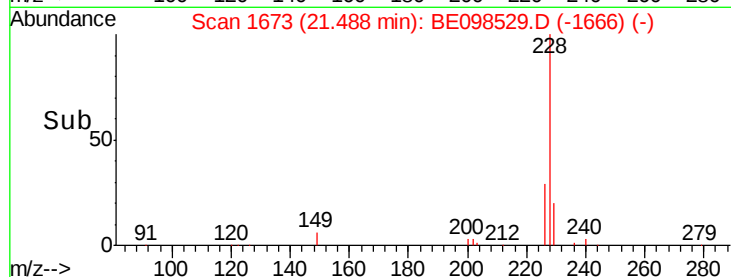
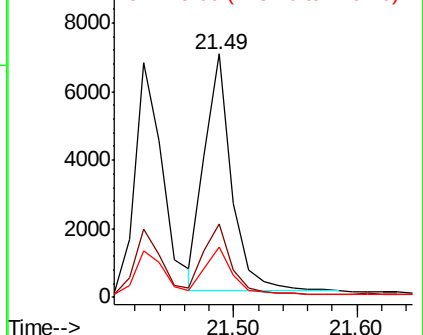
228 100

226 30.0 23.4 35.0

229 20.7 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: 0.526 ng

RT: 21.35 min Scan# 1662

Delta R.T. -0.01 min

Lab File: BE098529.D

Acq: 19 Dec 2018 15:16

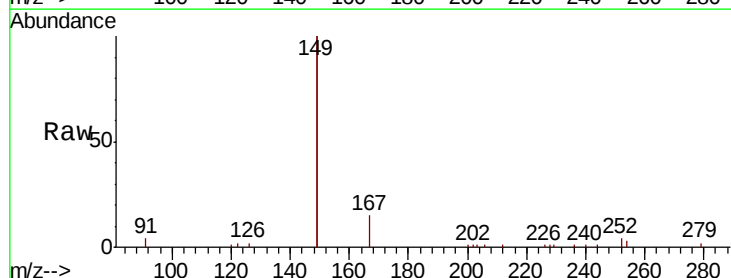
Tgt Ion:149 Resp: 23893

Ion Ratio Lower Upper

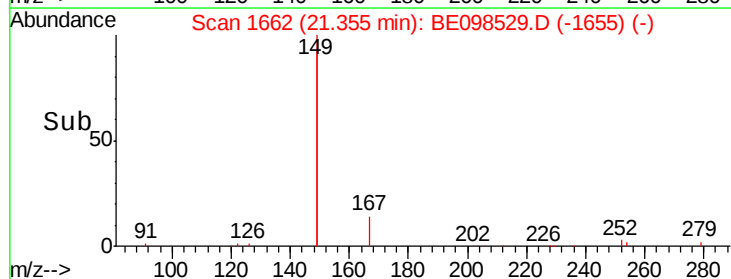
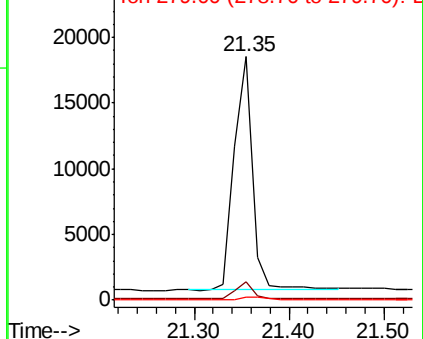
149 100

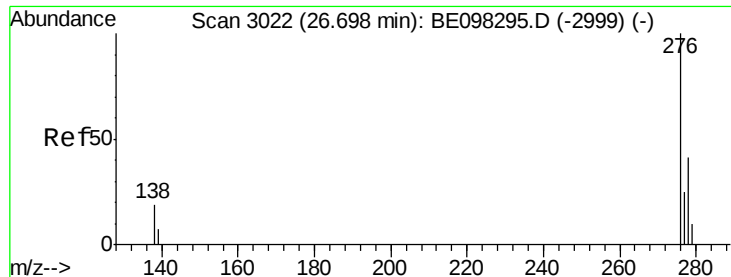
167 6.8 5.7 8.5

279 1.1 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

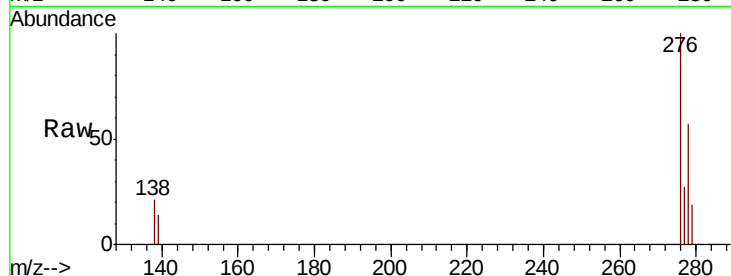




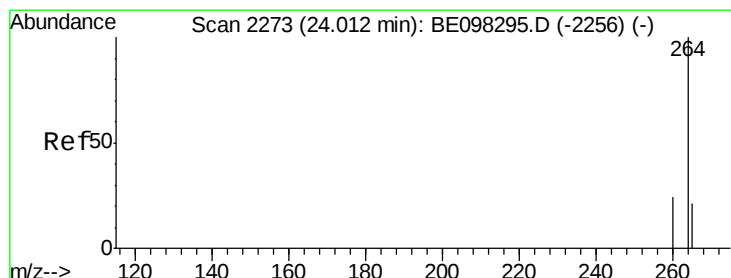
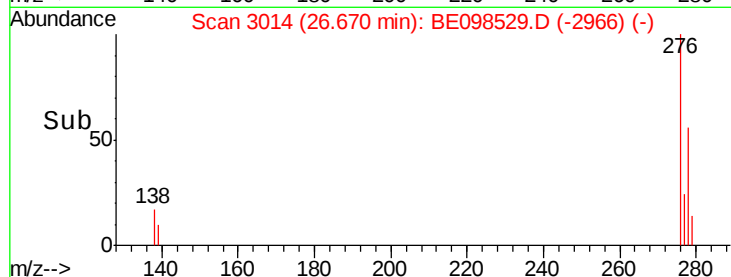
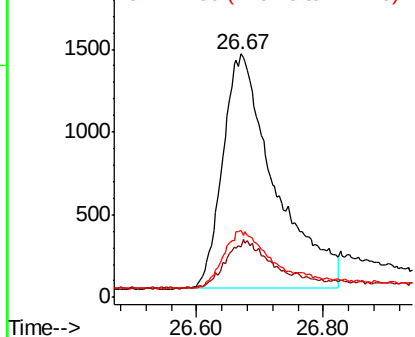
#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.348 ng
 RT: 26.67 min Scan# 3014
 Delta R.T. -0.03 min
 Lab File: BE098529.D
 Acq: 19 Dec 2018 15:16

Instrument :
 BNA_E
 ClientSampleId :
 BP-TT-SW4002-20181211MSD

Tot Ion:276 Resp: 8112
 Ion Ratio Lower Upper
 276 100
 138 16.8 16.3 24.5
 277 23.6 20.2 30.4

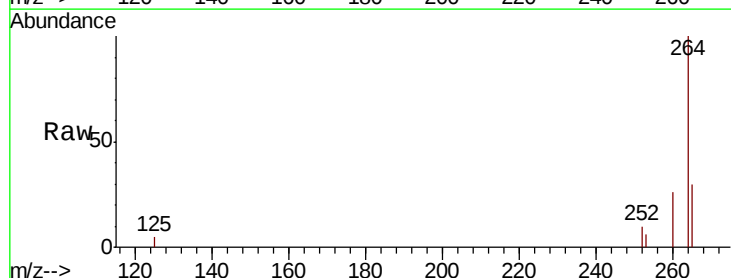


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

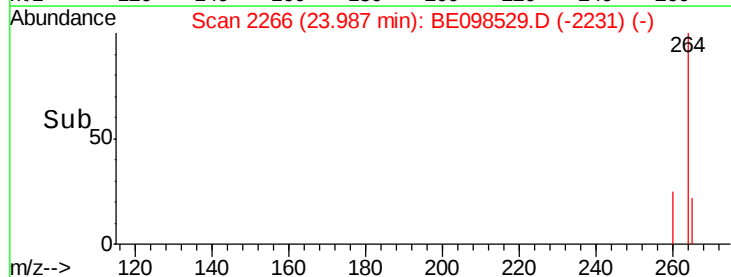
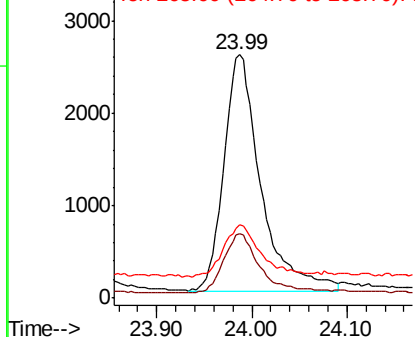


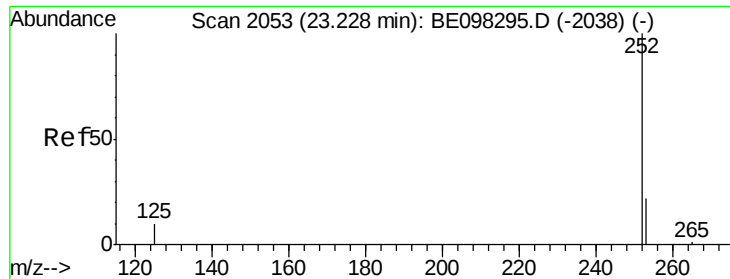
#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.99 min Scan# 2266
 Delta R.T. -0.03 min
 Lab File: BE098529.D
 Acq: 19 Dec 2018 15:16

Tgt Ion:264 Resp: 6852
 Ion Ratio Lower Upper
 264 100
 260 26.3 20.2 30.2
 265 30.0 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

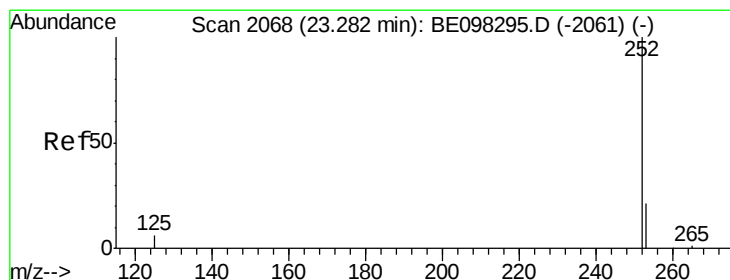
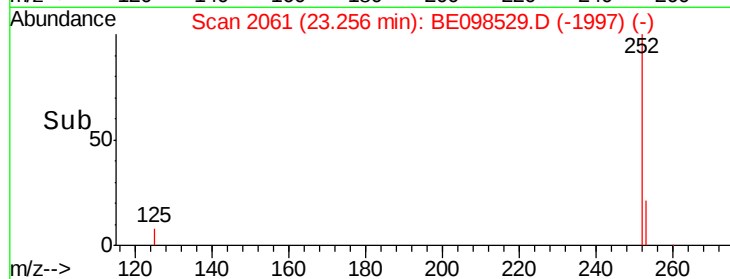
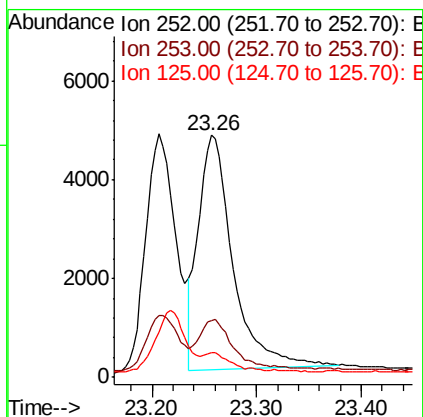
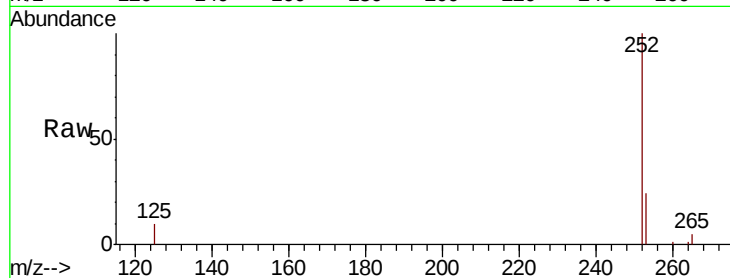




#35
Benzo(b)fluoranthene
Concen: 0.586 ng
RT: 23.26 min Scan# 2061
Delta R.T. 0.03 min
Lab File: BE098529.D
Acq: 19 Dec 2018 15:16

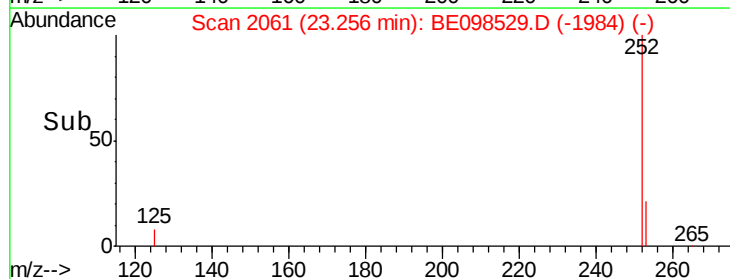
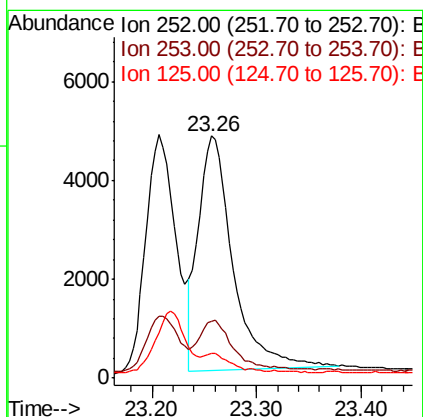
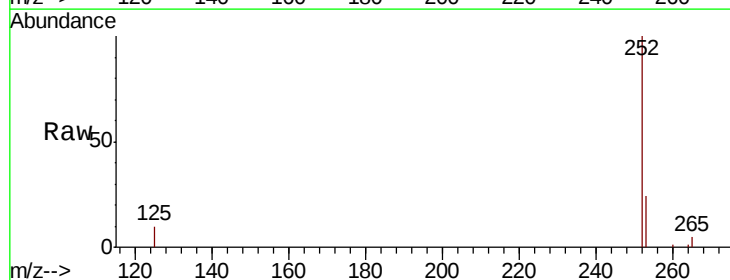
Instrument :
BNA_E
ClientSampleId :
BP-TT-SW4002-20181211MSD

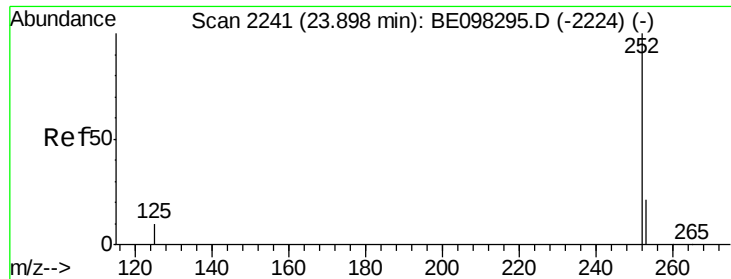
Tot Ion:252 Resp: 10978
Ion Ratio Lower Upper
252 100
253 23.6 20.0 30.0
125 10.0 9.6 14.4



#36
Benzo(k)fluoranthene
Concen: 0.503 ng
RT: 23.26 min Scan# 2061
Delta R.T. -0.03 min
Lab File: BE098529.D
Acq: 19 Dec 2018 15:16

Tgt Ion:252 Resp: 10978
Ion Ratio Lower Upper
252 100
253 23.6 19.0 28.6
125 10.0 9.1 13.7

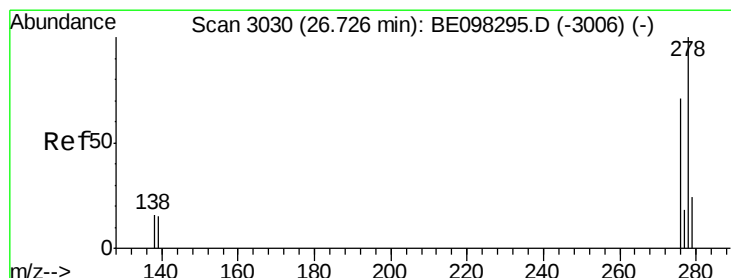
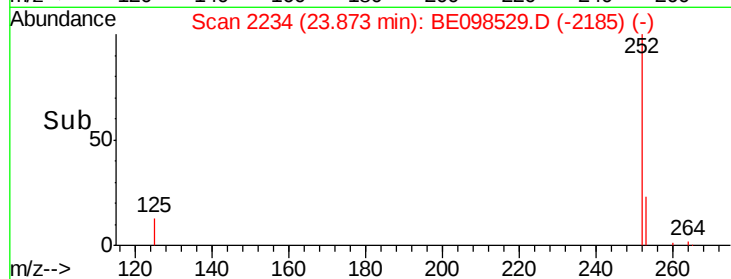
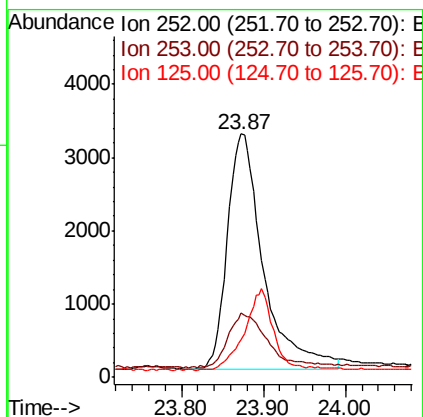
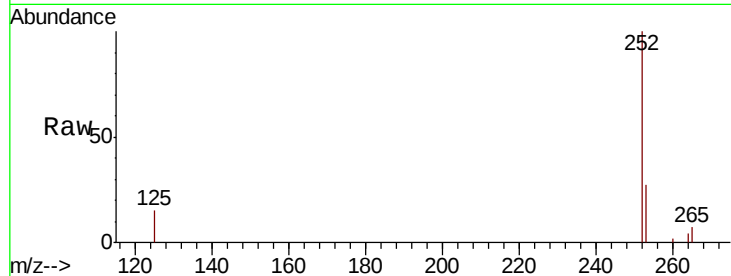




#37
Benzo(a)pyrene
Concen: 0.509 ng
RT: 23.87 min Scan# 2234
Delta R.T. -0.03 min
Lab File: BE098529.D
Acq: 19 Dec 2018 15:16

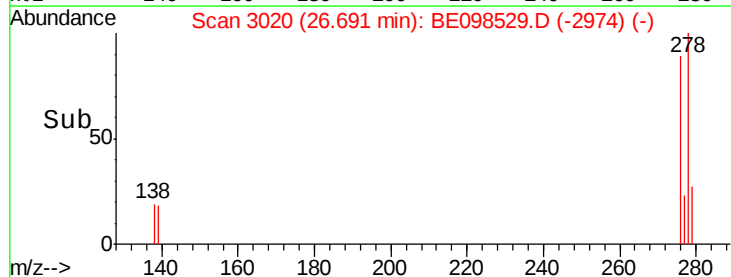
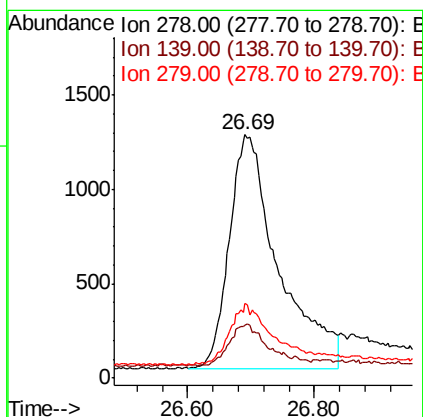
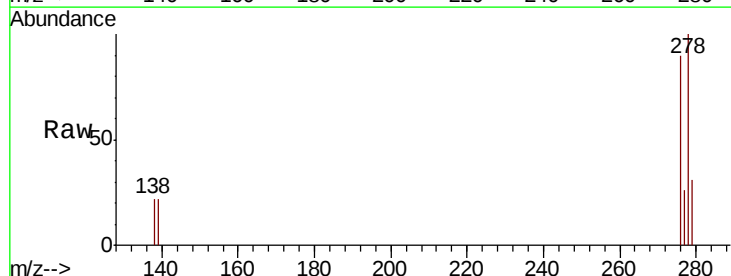
Instrument :
BNA_E
ClientSampleId :
BP-TT-SW4002-20181211MSD

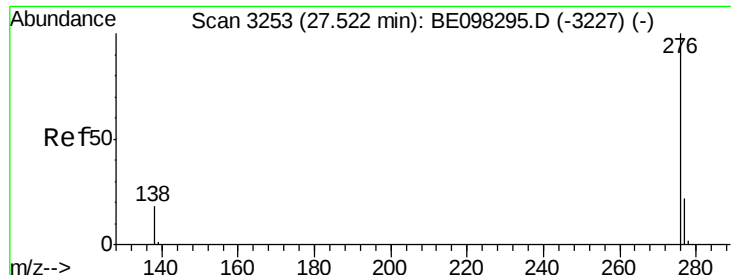
Tot Ion:252 Resp: 9840
Ion Ratio Lower Upper
252 100
253 26.6 20.6 30.8
125 15.3 10.5 15.7



#38
Dibenzo(a,h)anthracene
Concen: 0.366 ng
RT: 26.69 min Scan# 3020
Delta R.T. -0.04 min
Lab File: BE098529.D
Acq: 19 Dec 2018 15:16

Tgt Ion:278 Resp: 6665
Ion Ratio Lower Upper
278 100
139 22.0 14.5 21.7#
279 30.7 21.8 32.8





#39

Benzo(a,h,i)perylene

Concen: 0.328 ng

RT: 27.48 min Scan# 3242

Delta R.T. -0.04 min

Lab File: BE098529.D

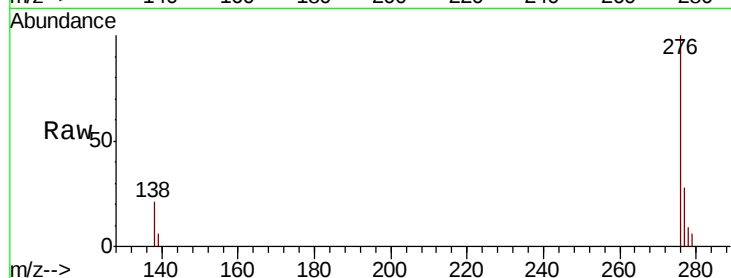
Acq: 19 Dec 2018 15:16

Instrument :

BNA_E

ClientSampleId :

BP-TT-SW4002-20181211MSD



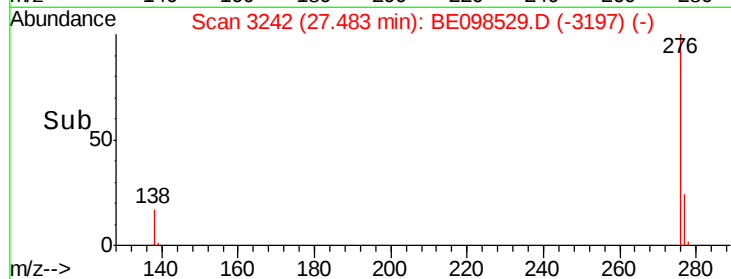
Tot Ion: 276 Resp: 6011

Ion Ratio Lower Upper

276 100

277 27.5 20.8 31.2

138 20.7 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

