

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE100318\
 Data File : BE097713.D
 Acq On : 3 Oct 2018 13:26
 Operator : SJ/JU
 Sample : J4870-21
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WP

Quant Time: Oct 03 14:27:53 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	7.90	152	5128	0.40	ng	0.00
7) Naphthalene-d8	10.69	136	19038	0.40	ng	0.00
13) Acenaphthene-d10	14.56	164	9744	0.40	ng	0.00
19) Phenanthrene-d10	17.30	188	24409	0.40	ng	0.00
27) Chrysene-d12	21.49	240	36701	0.40	ng	0.00
34) Perylene-d12	24.04	264	41509	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.47	112	4453	0.37	ng	0.00
5) Phenol-d6	7.04	99	5873	0.32	ng	0.00
8) Nitrobenzene-d5	9.04	82	2466	0.40	ng	0.00
11) 2-Methylnaphthalene-d10	12.30	152	10258	0.34	ng	0.00
14) 2,4,6-Tribromophenol	16.04	330	536	0.30	ng	0.00
15) 2-Fluorobiphenyl	13.19	172	16039	0.37	ng	0.00
25) Fluoranthene-d10	19.33	212	114870	0.37	ng	0.00
29) Terphenyl-d14	19.93	244	26497	0.35	ng	0.00

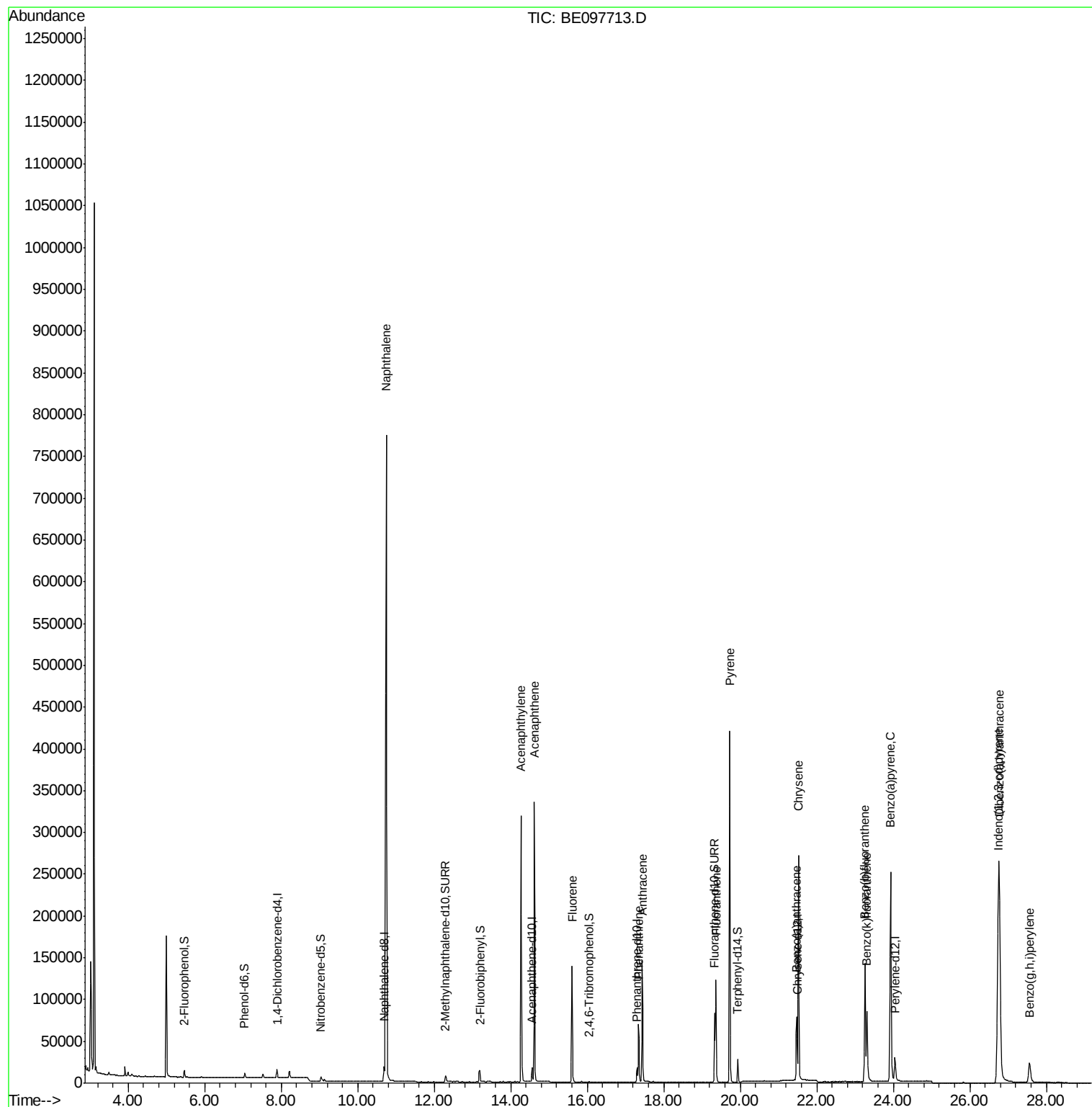
Target Compounds				Qvalue		
9) Naphthalene	10.74	128	1236817	6.446	ng	100
16) Acenaphthylene	14.27	152	368124	8.531	ng	99
17) Acenaphthene	14.62	154	169152	6.120	ng	97
18) Fluorene	15.60	166	111872	3.048	ng	99
23) Phenanthrene	17.34	178	75494	1.200	ng	100
24) Anthracene	17.43	178	154542	2.846	ng	99
26) Fluoranthene	19.36	202	112061	1.398	ng	99
28) Pyrene	19.72	202	359697	3.857	ng	100
30) Benzo(a)anthracene	21.48	228	66210	0.671	ng	99
31) Chrysene	21.52	228	228901	2.075	ng	100
33) Indeno(1,2,3-cd)pyrene	26.74	276	475614	4.965	ng	98
35) Benzo(b)fluoranthene	23.26	252	205941	1.808	ng	99
36) Benzo(k)fluoranthene	23.31	252	138581	1.097	ng	99
37) Benzo(a)pyrene	23.93	252	415788	4.032	ng	99
38) Dibenzo(a,h)anthracene	26.77	278	418284	4.118	ng	99
39) Benzo(g,h,i)perylene	27.56	276	67155	0.632	ng	99

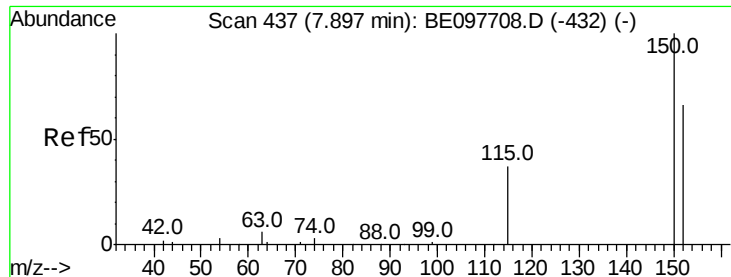
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.90 min Scan# 437

Delta R.T. -0.00 min

Lab File: BE097713.D

Acq: 3 Oct 2018 13:26

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

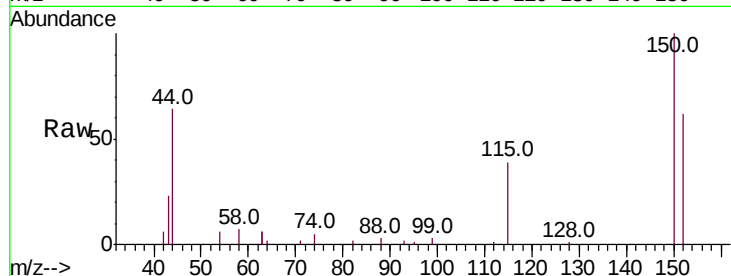
Tot Ion:152 Resp: 5128

Ion Ratio Lower Upper

152 100

150 160.9 120.9 181.3

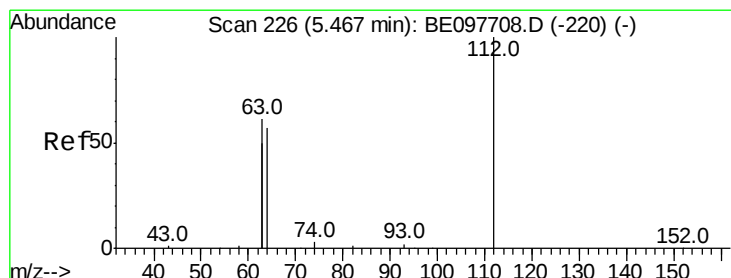
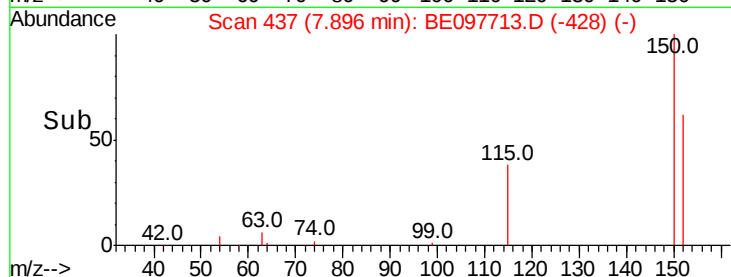
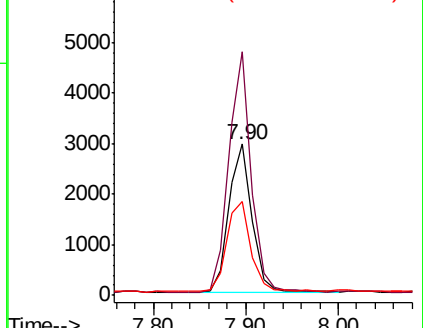
115 62.4 46.6 69.8



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



#4

2-Fluorophenol

Concen: 0.367 ng

RT: 5.47 min Scan# 226

Delta R.T. -0.00 min

Lab File: BE097713.D

Acq: 3 Oct 2018 13:26

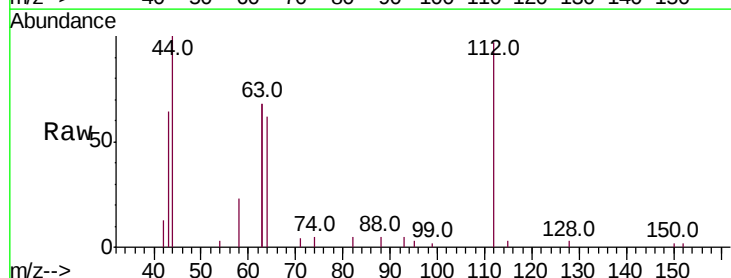
Tgt Ion:112 Resp: 4453

Ion Ratio Lower Upper

112 100

64 68.4 56.6 84.8

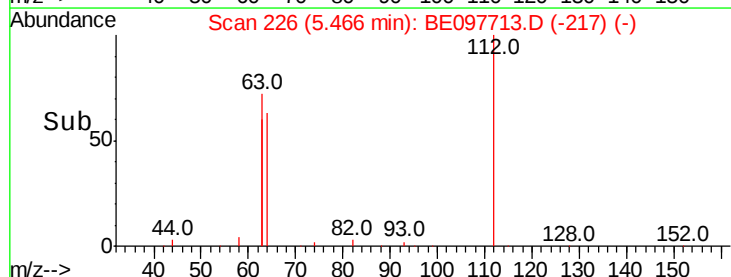
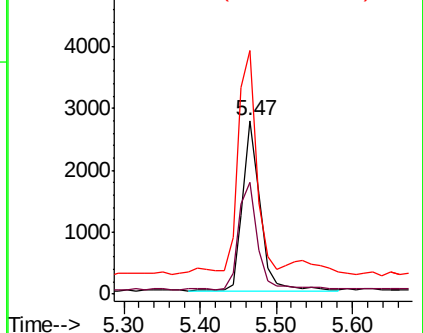
63 136.9 119.4 179.0

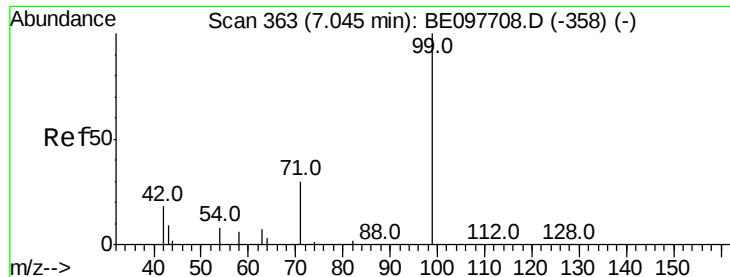


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.316 ng

RT: 7.04 min Scan# 363

Delta R.T. -0.00 min

Lab File: BE097713.D

Acq: 3 Oct 2018 13:26

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

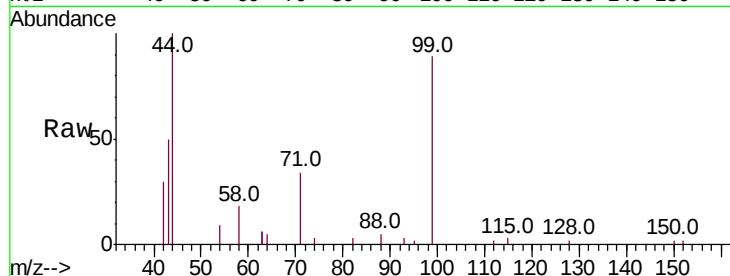
Tot Ion: 99 Resp: 5873

Ion Ratio Lower Upper

99 100

42 28.6 19.9 29.9

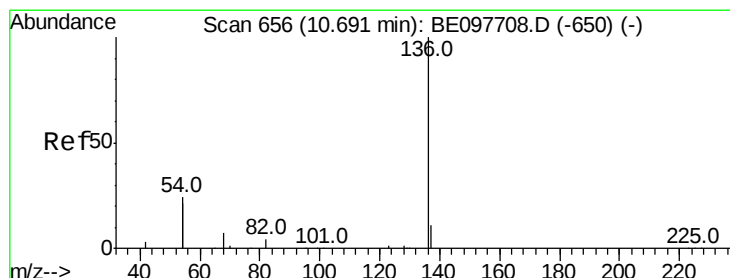
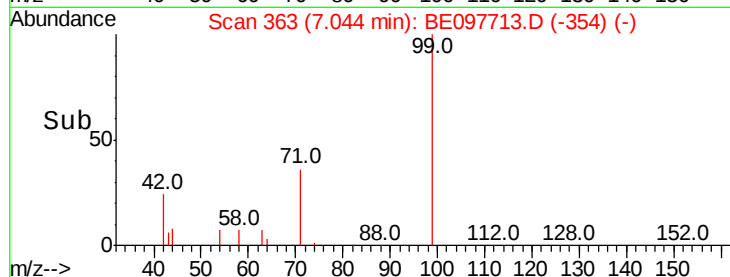
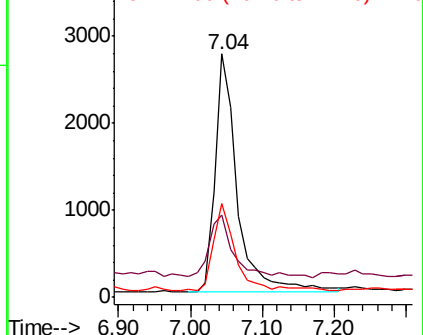
71 34.3 25.4 38.2



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: 10.69 min Scan# 656

Delta R.T. 0.00 min

Lab File: BE097713.D

Acq: 3 Oct 2018 13:26

Tgt Ion:136 Resp: 19038

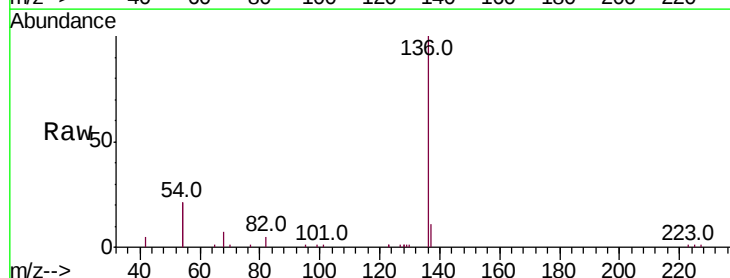
Ion Ratio Lower Upper

136 100

137 11.0 9.0 13.4

54 42.1 37.8 56.6

68 6.8 6.4 9.6

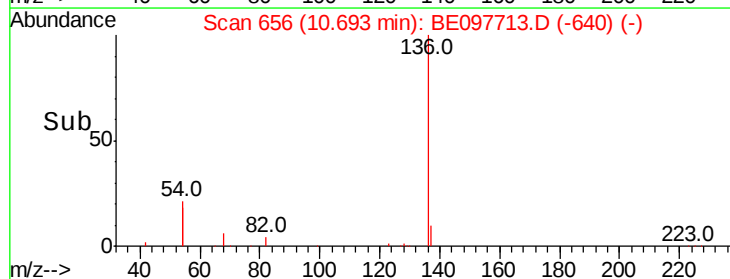
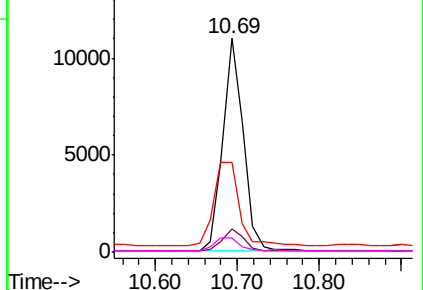


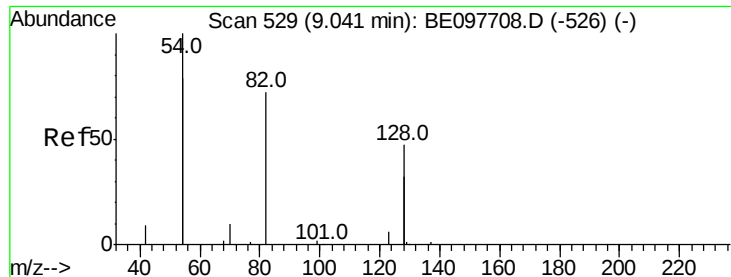
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.399 ng

RT: 9.04 min Scan# 529

Delta R.T. 0.00 min

Lab File: BE097713.D

Acq: 3 Oct 2018 13:26

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

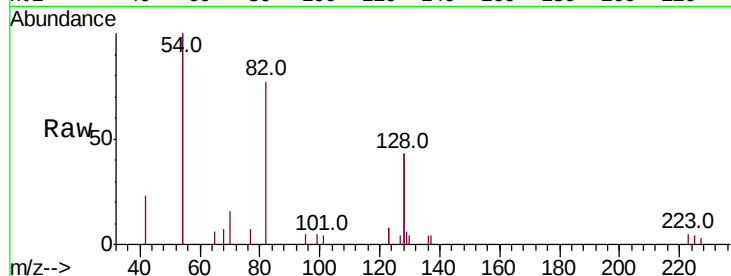
Tot Ion: 82 Resp: 2466

Ion Ratio Lower Upper

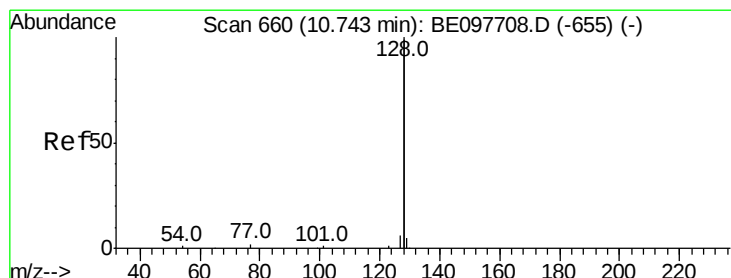
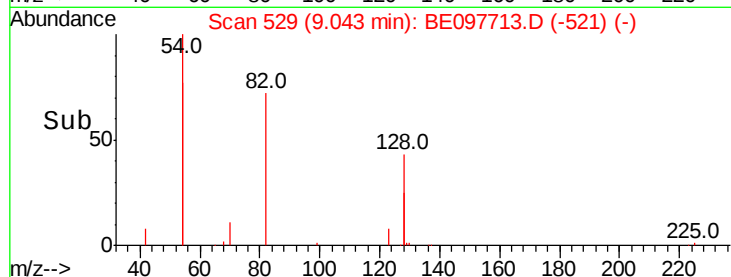
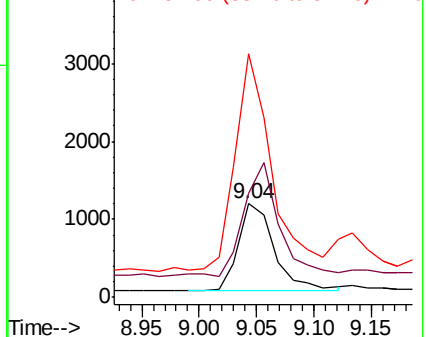
82 100

128 110.5 97.0 145.4

54 259.6 206.9 310.3



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: 6.446 ng

RT: 10.74 min Scan# 660

Delta R.T. 0.00 min

Lab File: BE097713.D

Acq: 3 Oct 2018 13:26

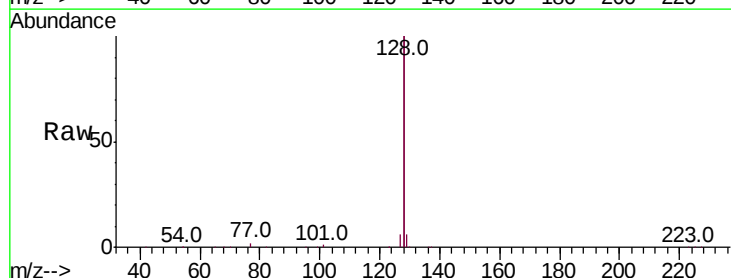
Tgt Ion: 128 Resp: 1236817

Ion Ratio Lower Upper

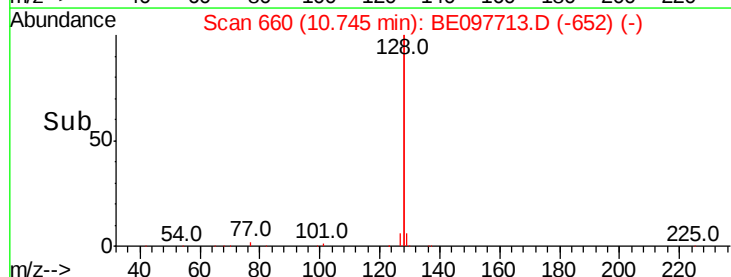
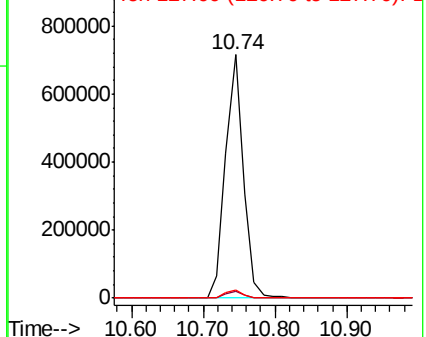
128 100

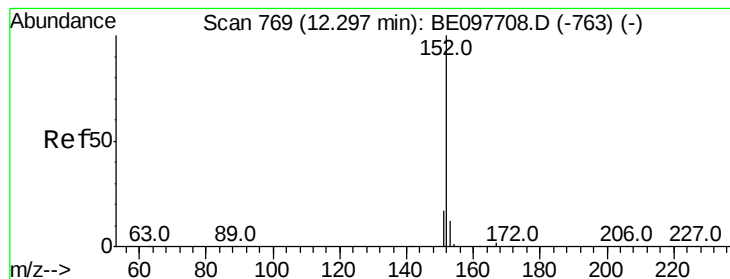
129 2.8 2.2 3.2

127 3.2 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

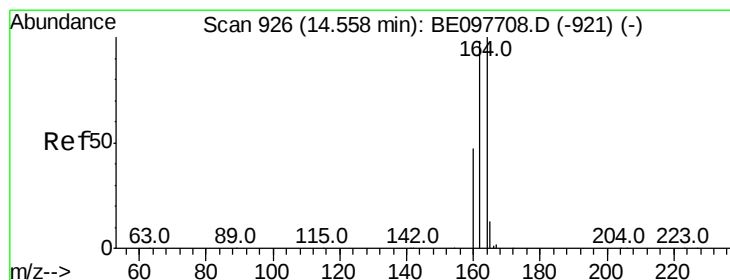
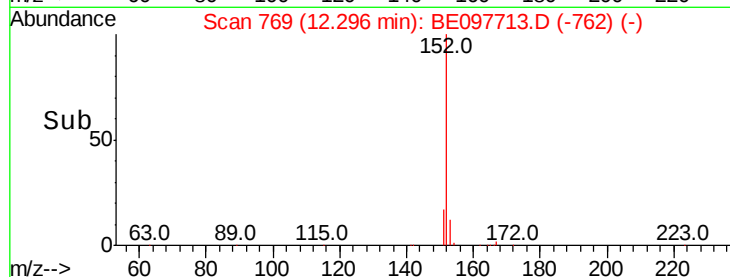
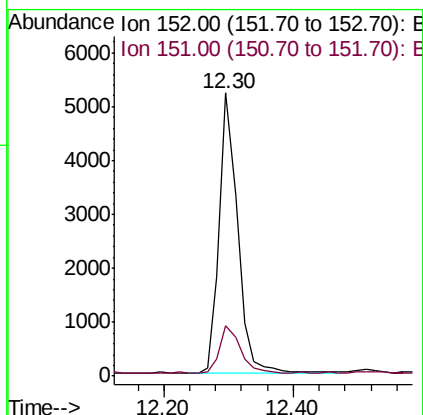
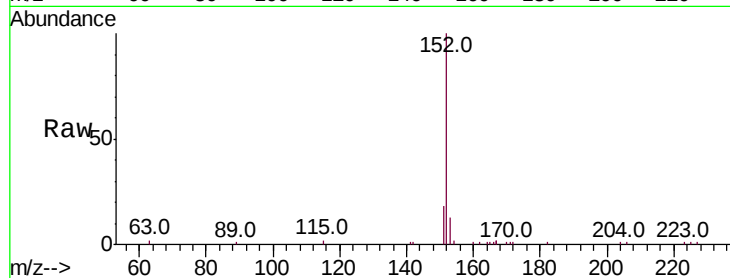




#11
 2-Methylnaphthalene-d10
 Concen: 0.339 ng
 RT: 12.30 min Scan# 769
 Delta R.T. -0.00 min
 Lab File: BE097713.D
 Acq: 3 Oct 2018 13:26

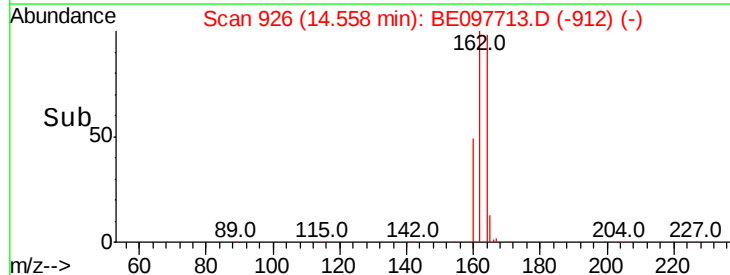
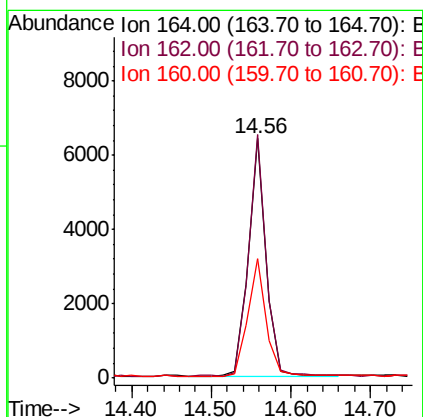
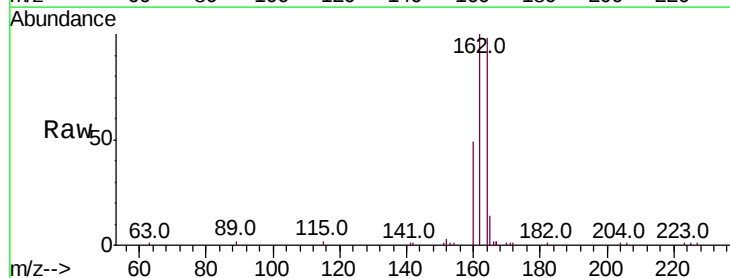
Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WP

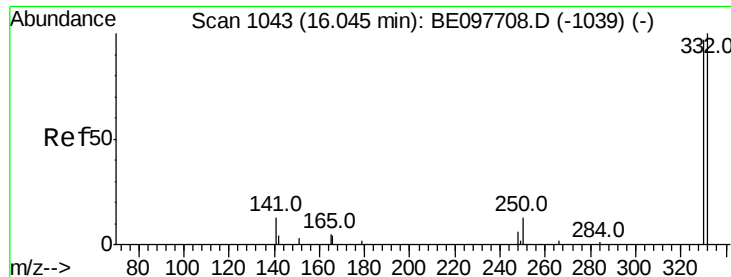
Tot Ion:152 Resp: 10258
 Ion Ratio Lower Upper
 152 100
 151 19.0 15.4 23.2



#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.56 min Scan# 926
 Delta R.T. -0.00 min
 Lab File: BE097713.D
 Acq: 3 Oct 2018 13:26

Tgt Ion:164 Resp: 9744
 Ion Ratio Lower Upper
 164 100
 162 101.6 78.6 117.8
 160 49.7 37.8 56.6

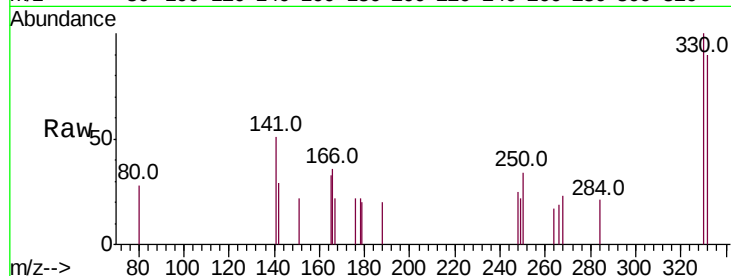




#14
2,4,6-Tribromophenol
Concen: 0.303 ng
RT: 16.04 min Scan# 1043
Delta R.T. 0.00 min
Lab File: BE097713.D
Acq: 3 Oct 2018 13:26

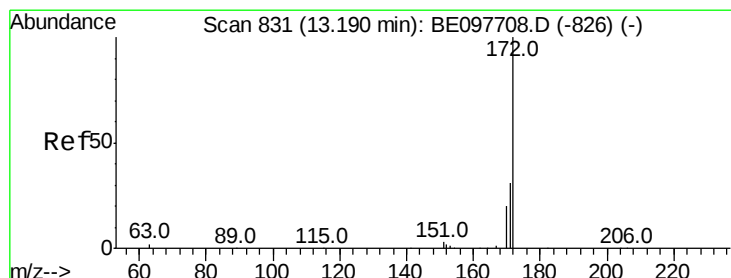
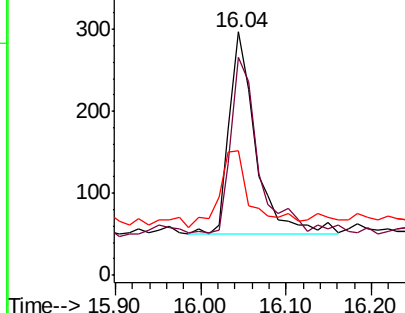
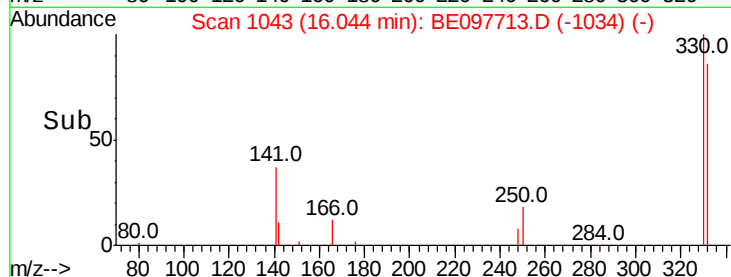
Instrument :
BNA_E
ClientSampleId :
RR-PAH-WP

Tot Ion:330 Resp: 536
Ion Ratio Lower Upper
330 100
332 89.6 83.5 125.3
141 44.4 34.9 52.3



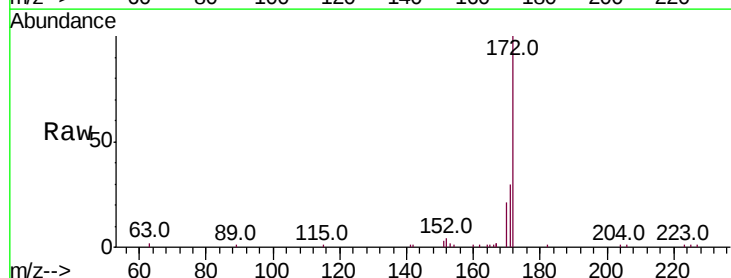
Abundance Ion 330.00 (329.70 to 330.70): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E

16.04



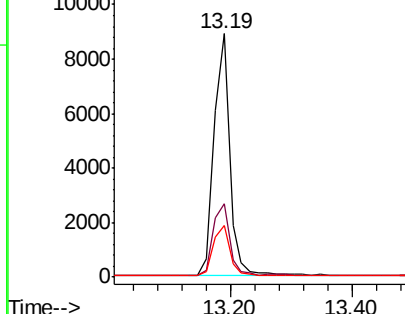
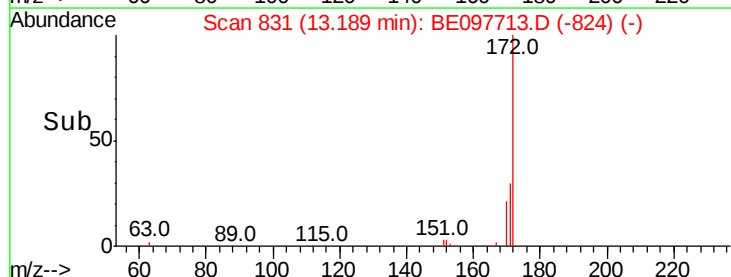
#15
2-Fluorobiphenyl
Concen: 0.374 ng
RT: 13.19 min Scan# 831
Delta R.T. -0.00 min
Lab File: BE097713.D
Acq: 3 Oct 2018 13:26

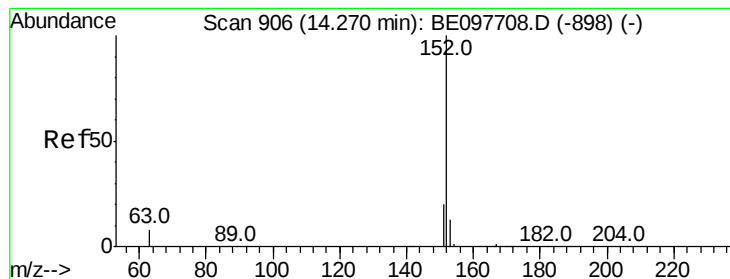
Tgt Ion:172 Resp: 16039
Ion Ratio Lower Upper
172 100
171 30.1 25.2 37.8
170 21.1 16.2 24.2



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

13.19





#16

Acenaphthylene

Concen: 8.531 ng

RT: 14.27 min Scan# 906

Delta R.T. -0.00 min

Lab File: BE097713.D

Acq: 3 Oct 2018 13:26

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

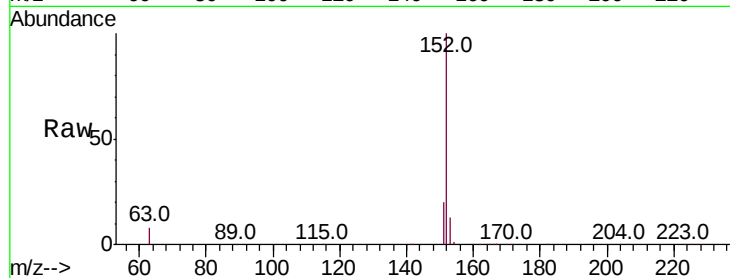
Tot Ion:152 Resp: 368124

Ion Ratio Lower Upper

152 100

151 19.8 15.3 22.9

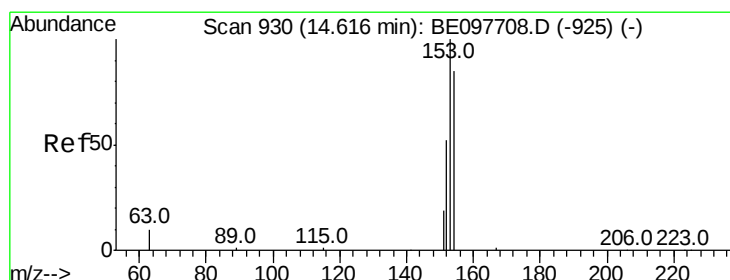
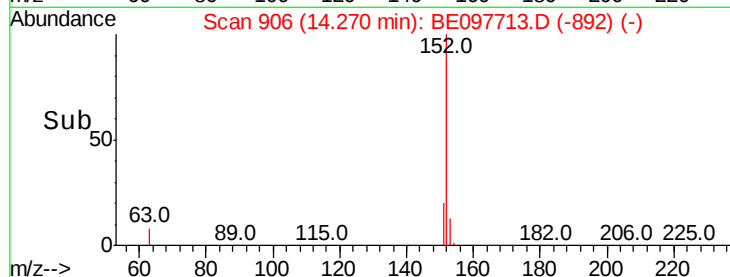
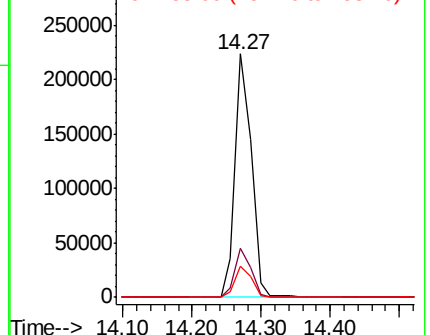
153 13.1 10.8 16.2



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: 6.120 ng

RT: 14.62 min Scan# 930

Delta R.T. -0.00 min

Lab File: BE097713.D

Acq: 3 Oct 2018 13:26

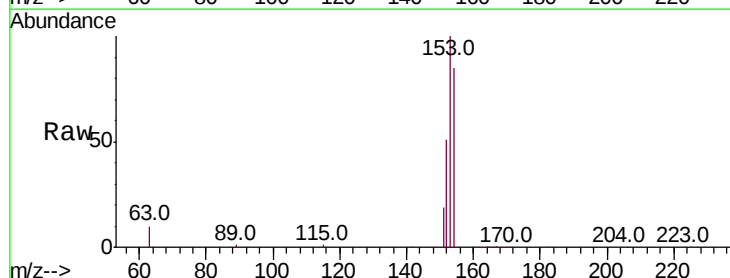
Tgt Ion:154 Resp: 169152

Ion Ratio Lower Upper

154 100

153 114.3 93.3 139.9

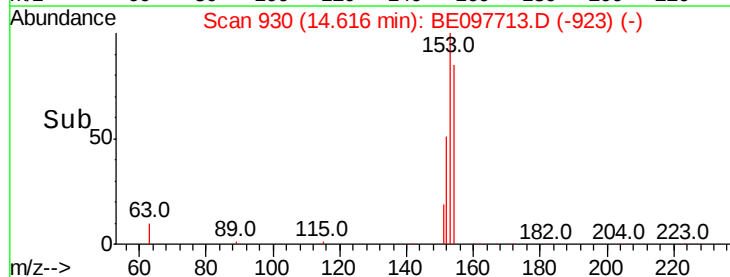
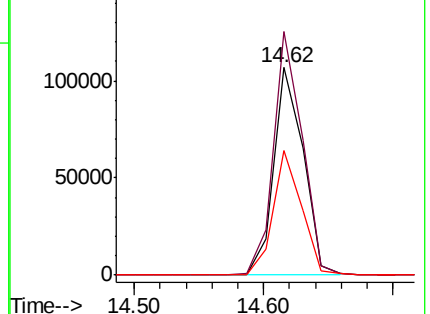
152 57.6 48.9 73.3

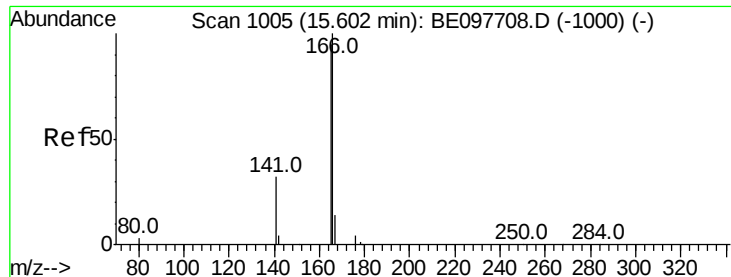


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#18

Fluorene

Concen: 3.048 ng

RT: 15.60 min Scan# 1005

Delta R.T. -0.00 min

Lab File: BE097713.D

Acq: 3 Oct 2018 13:26

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

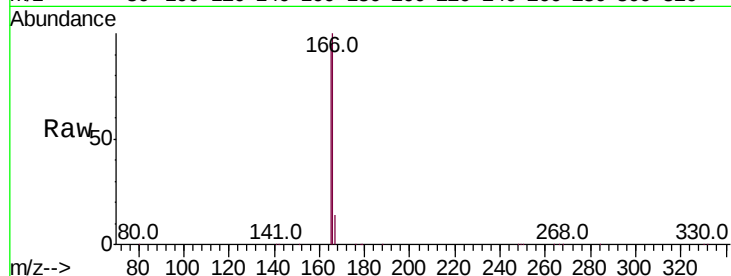
Tot Ion:166 Resp: 111872

Ion Ratio Lower Upper

166 100

165 98.4 79.0 118.4

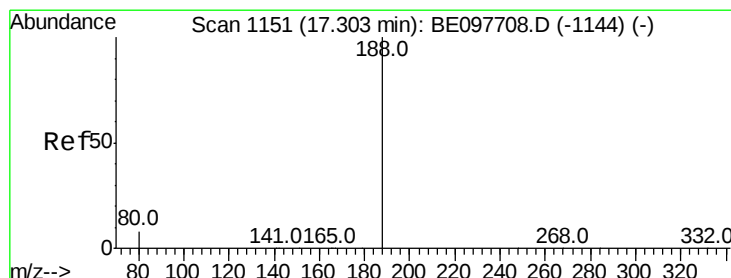
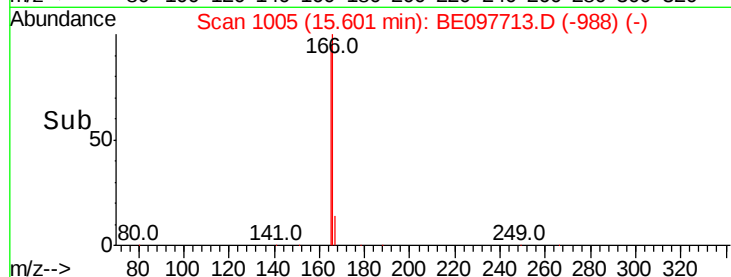
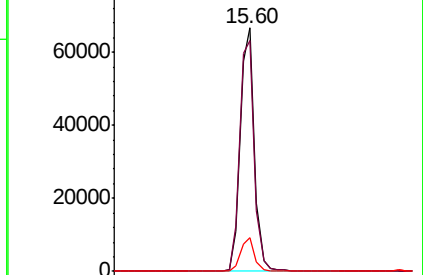
167 13.2 11.1 16.7



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: 17.30 min Scan# 1151

Delta R.T. -0.00 min

Lab File: BE097713.D

Acq: 3 Oct 2018 13:26

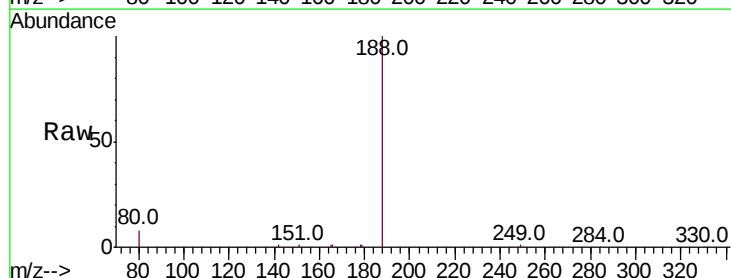
Tgt Ion:188 Resp: 24409

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

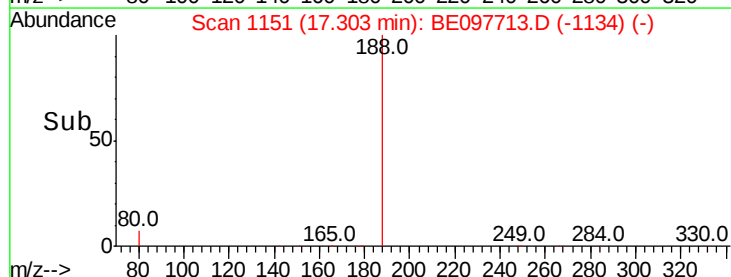
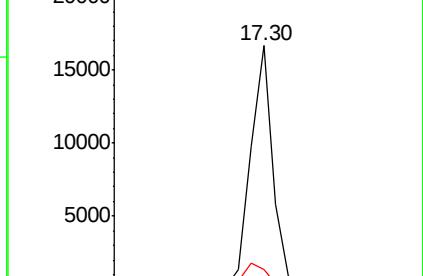
80 7.8 6.6 9.8

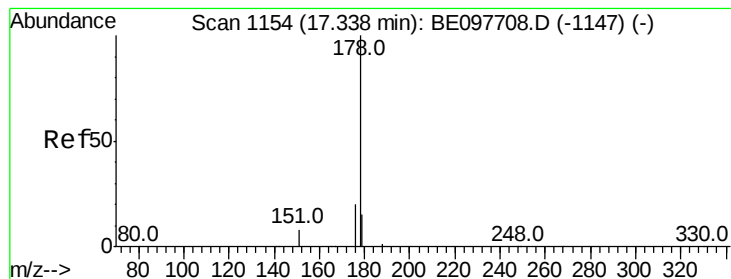


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#23

Phenanthrene

Concen: 1.200 ng

RT: 17.34 min Scan# 1154

Delta R.T. -0.00 min

Lab File: BE097713.D

Acq: 3 Oct 2018 13:26

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

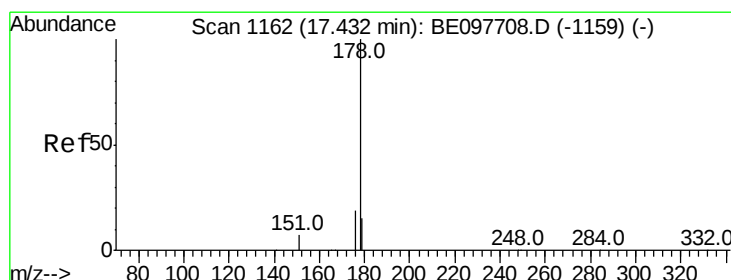
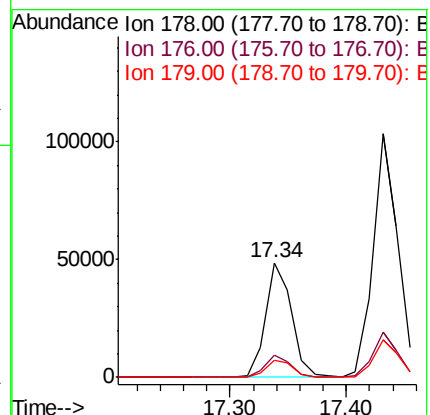
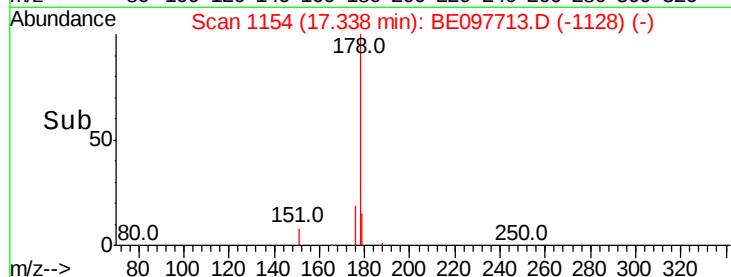
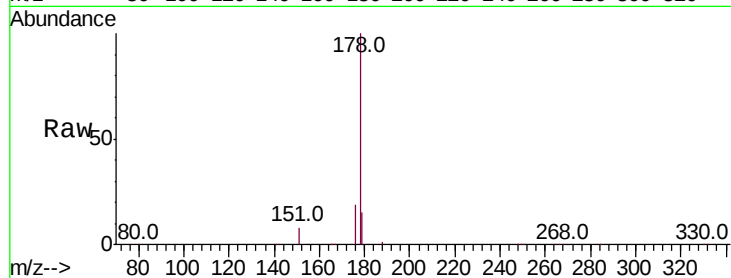
Tot Ion:178 Resp: 75494

Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.2

179 15.3 12.2 18.4



#24

Anthracene

Concen: 2.846 ng

RT: 17.43 min Scan# 1162

Delta R.T. -0.00 min

Lab File: BE097713.D

Acq: 3 Oct 2018 13:26

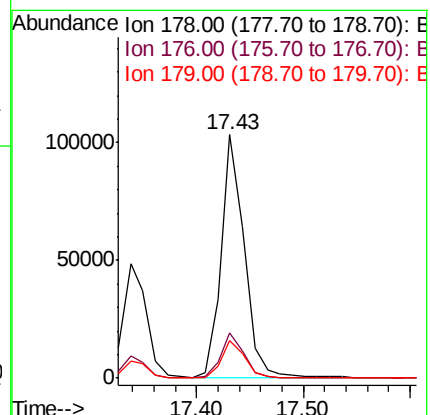
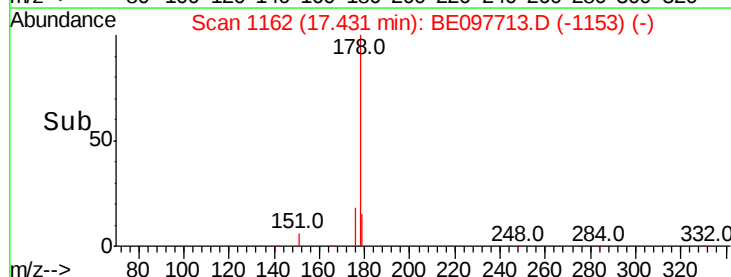
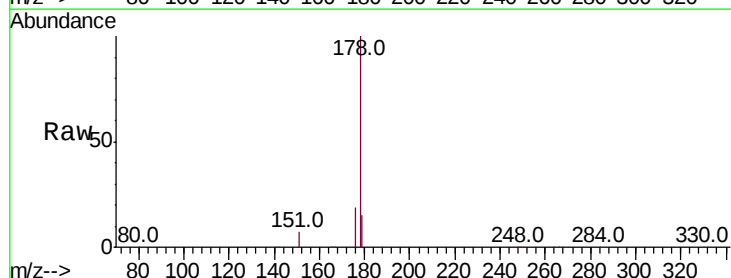
Tgt Ion:178 Resp: 154542

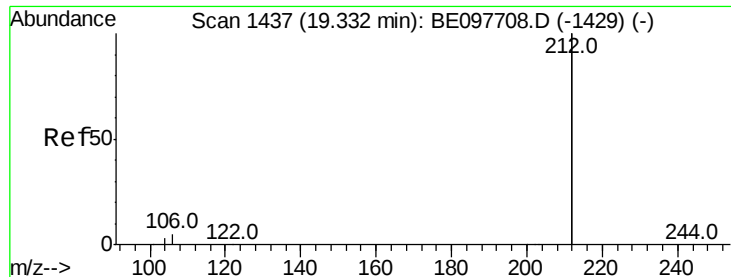
Ion Ratio Lower Upper

178 100

176 18.5 15.1 22.7

179 15.3 12.2 18.2





#25

Fluoranthene-d10

Concen: 0.372 ng

RT: 19.33 min Scan# 1437

Delta R.T. -0.00 min

Lab File: BE097713.D

Acq: 3 Oct 2018 13:26

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

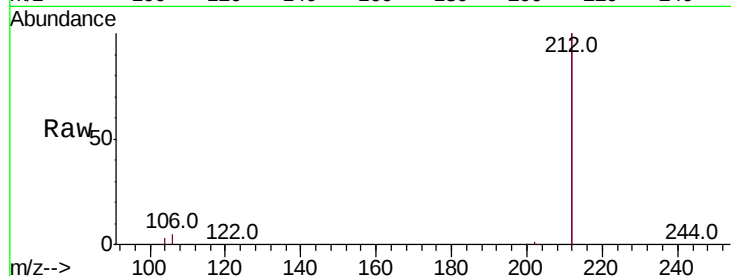
Tot Ion:212 Resp: 114870

Ion Ratio Lower Upper

212 100

106 2.7 2.2 3.2

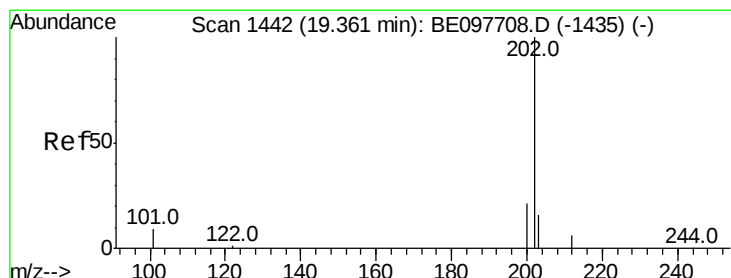
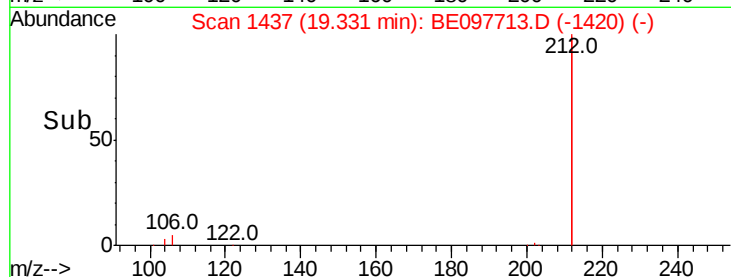
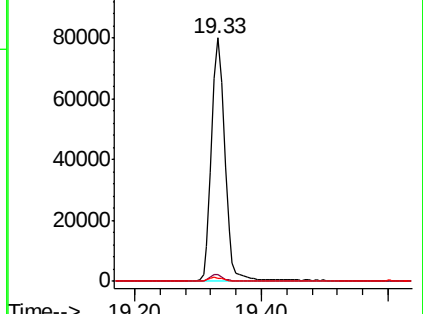
104 1.5 1.2 1.8



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



#26

Fluoranthene

Concen: 1.398 ng

RT: 19.36 min Scan# 1442

Delta R.T. -0.00 min

Lab File: BE097713.D

Acq: 3 Oct 2018 13:26

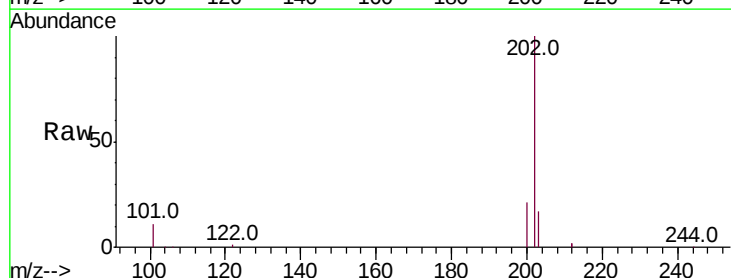
Tgt Ion:202 Resp: 112061

Ion Ratio Lower Upper

202 100

101 10.1 7.8 11.8

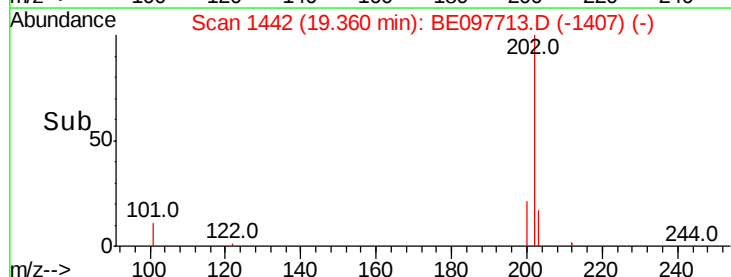
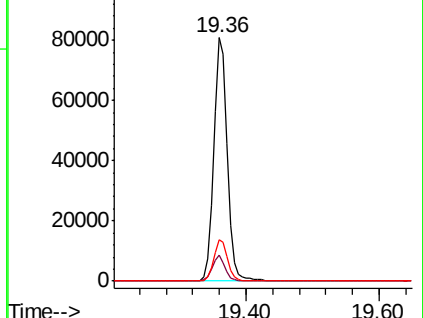
203 17.0 13.8 20.6

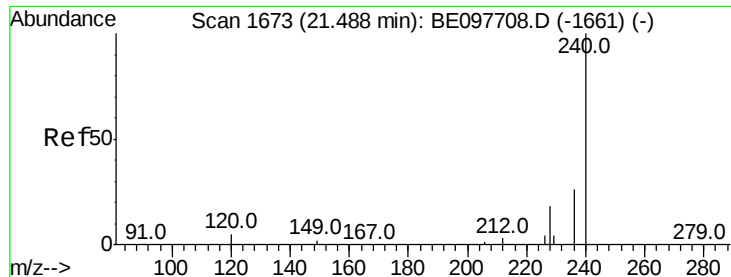


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

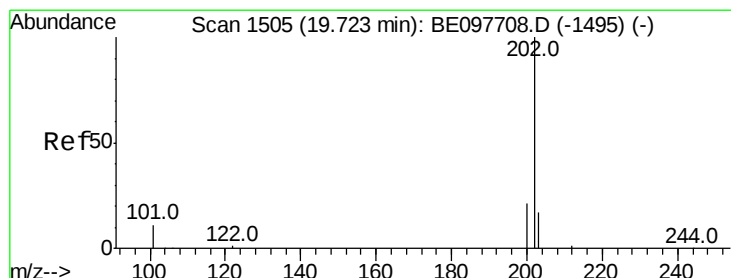
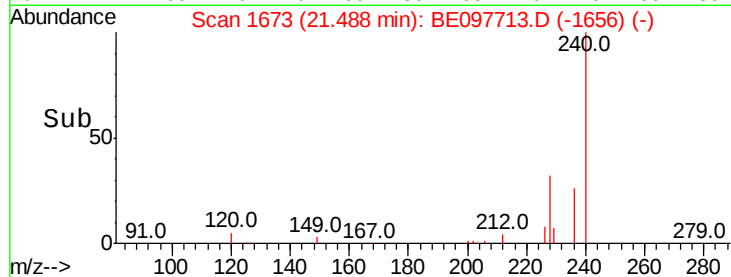
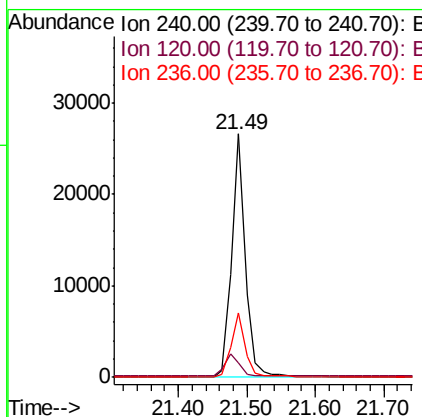
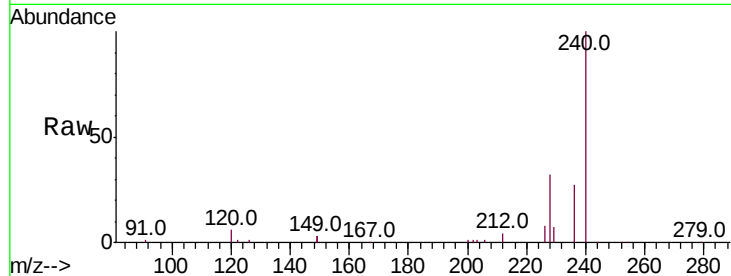




#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.49 min Scan# 1673
 Delta R.T. 0.00 min
 Lab File: BE097713.D
 Acq: 3 Oct 2018 13:26

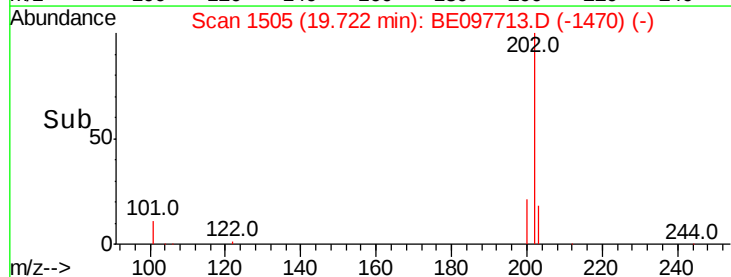
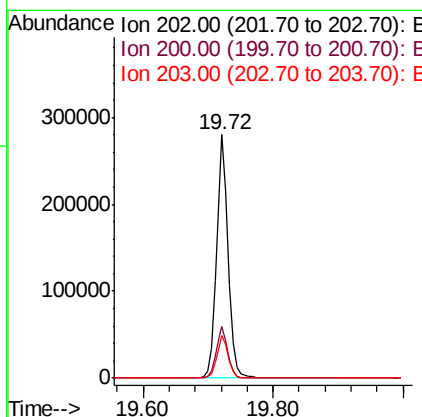
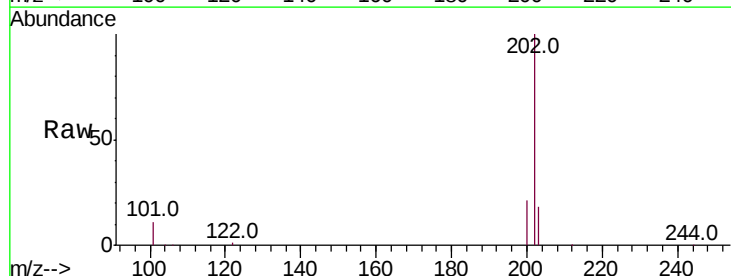
Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WP

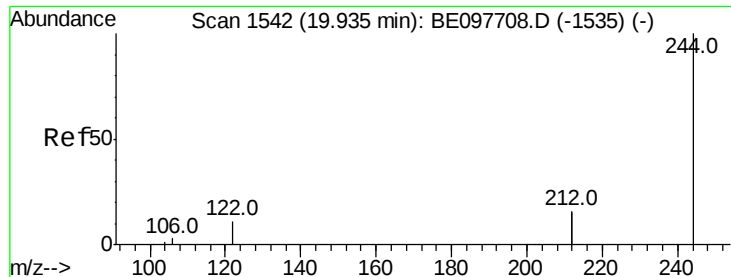
Tot Ion:240 Resp: 36701
 Ion Ratio Lower Upper
 240 100
 120 5.9 4.7 7.1
 236 26.6 20.8 31.2



#28
 Pyrene
 Concen: 3.857 ng
 RT: 19.72 min Scan# 1505
 Delta R.T. -0.00 min
 Lab File: BE097713.D
 Acq: 3 Oct 2018 13:26

Tgt Ion:202 Resp: 359697
 Ion Ratio Lower Upper
 202 100
 200 21.0 16.7 25.1
 203 17.5 13.9 20.9





#29

Terphenyl-d14

Concen: 0.354 ng

RT: 19.93 min Scan# 1542

Delta R.T. -0.00 min

Lab File: BE097713.D

Acq: 3 Oct 2018 13:26

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

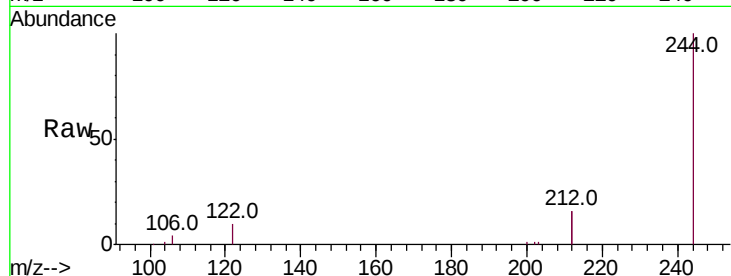
Tot Ion:244 Resp: 26497

Ion Ratio Lower Upper

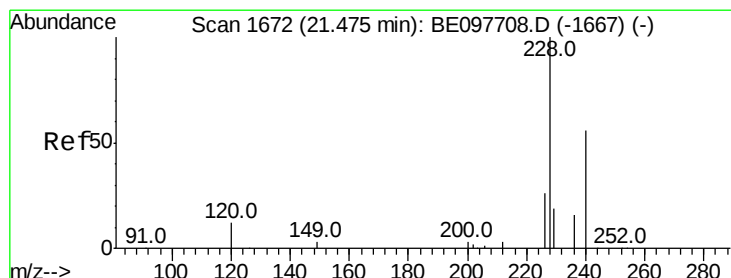
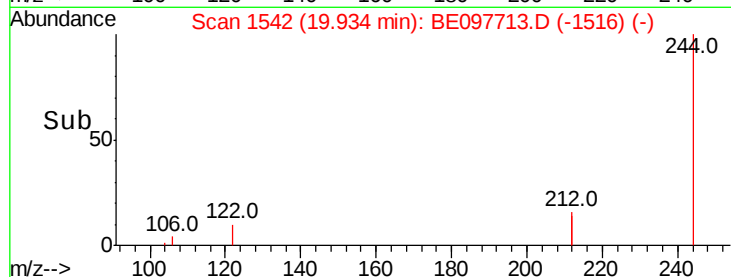
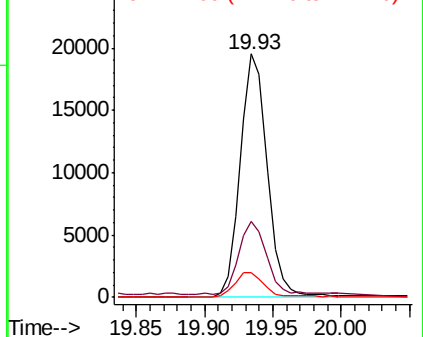
244 100

212 31.4 25.8 38.8

122 10.1 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: 0.671 ng

RT: 21.48 min Scan# 1672

Delta R.T. 0.00 min

Lab File: BE097713.D

Acq: 3 Oct 2018 13:26

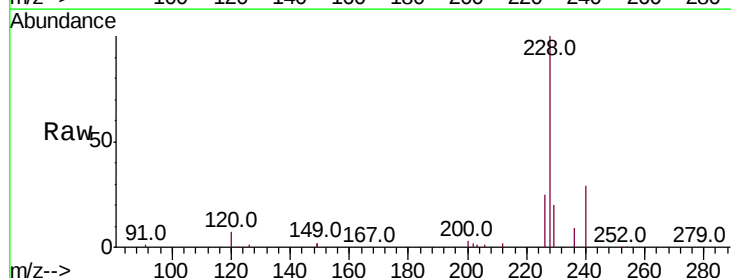
Tgt Ion:228 Resp: 66210

Ion Ratio Lower Upper

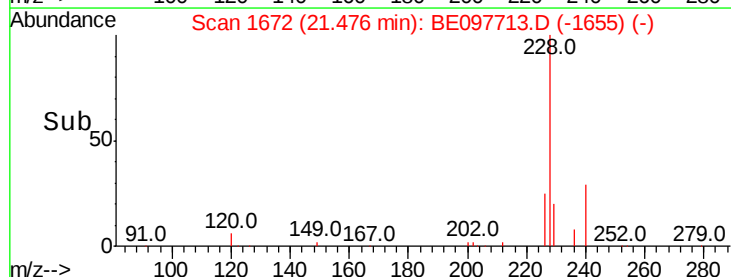
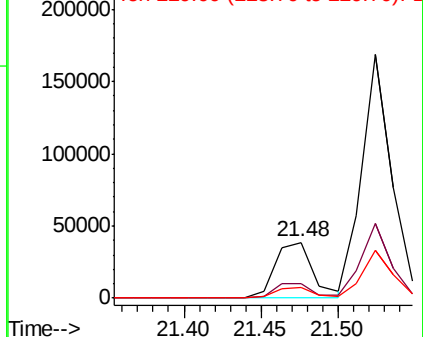
228 100

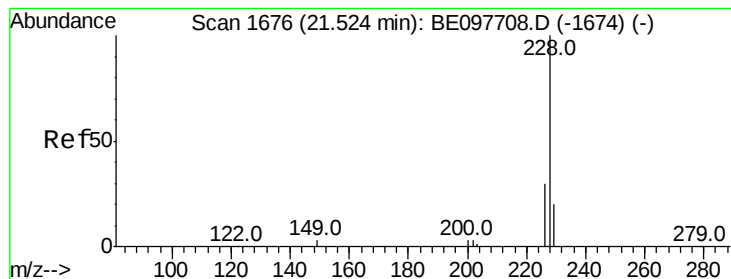
226 25.0 20.7 31.1

229 20.0 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: 2.075 ng

RT: 21.52 min Scan# 1676

Delta R.T. 0.00 min

Lab File: BE097713.D

Acq: 3 Oct 2018 13:26

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

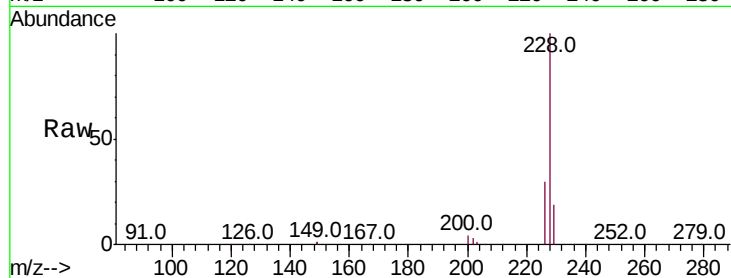
Tot Ion:228 Resp: 228901

Ion Ratio Lower Upper

228 100

226 30.4 24.3 36.5

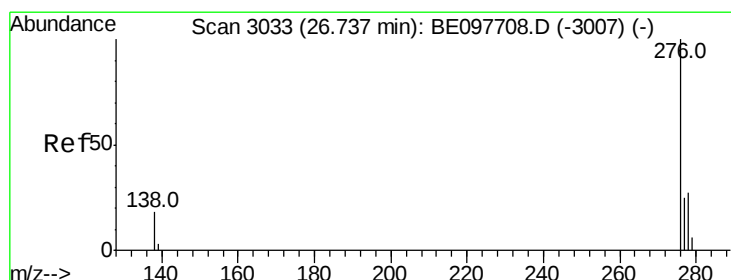
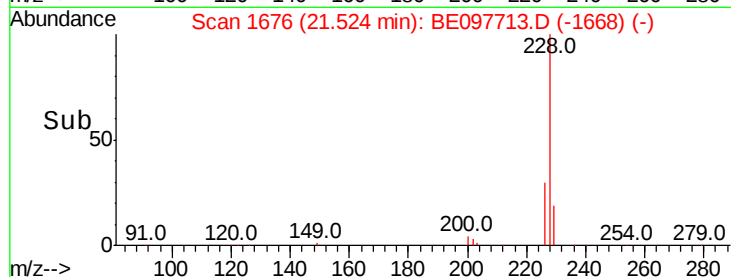
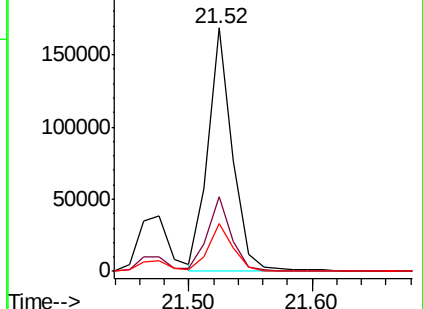
229 19.5 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#33

Indeno(1,2,3-cd)pyrene

Concen: 4.965 ng

RT: 26.74 min Scan# 3033

Delta R.T. 0.00 min

Lab File: BE097713.D

Acq: 3 Oct 2018 13:26

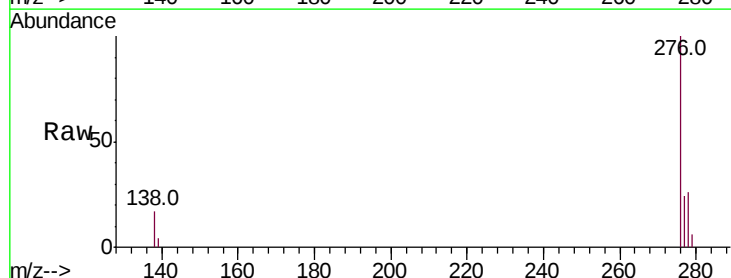
Tgt Ion:276 Resp: 475614

Ion Ratio Lower Upper

276 100

138 20.0 15.0 22.6

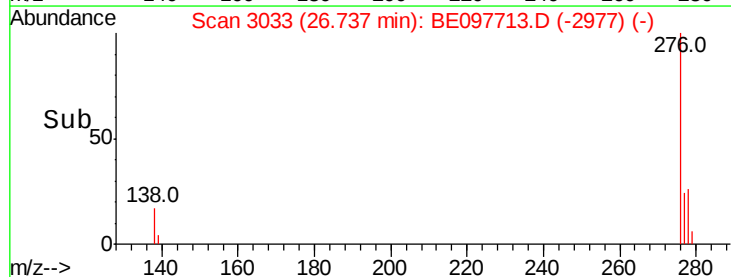
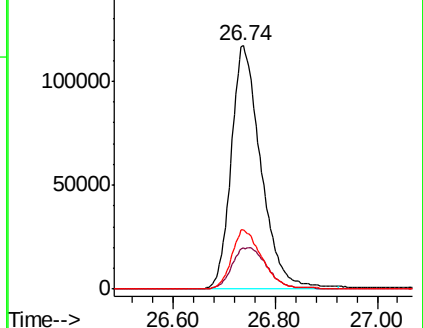
277 24.8 19.2 28.8

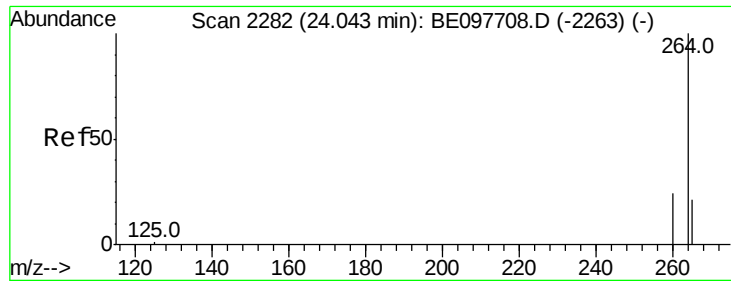


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

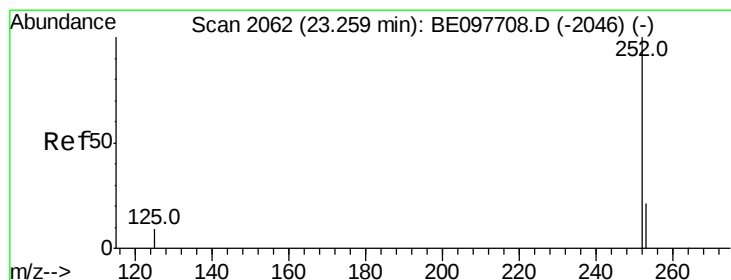
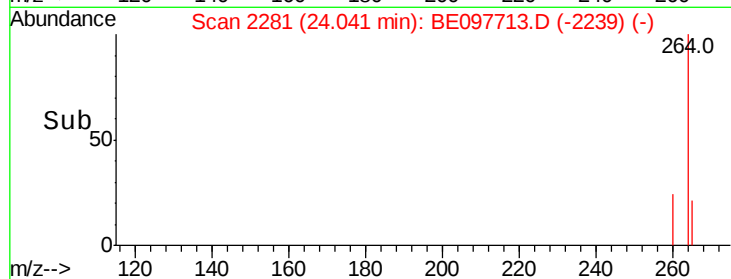
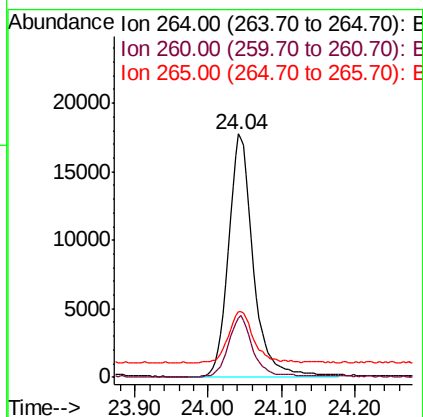
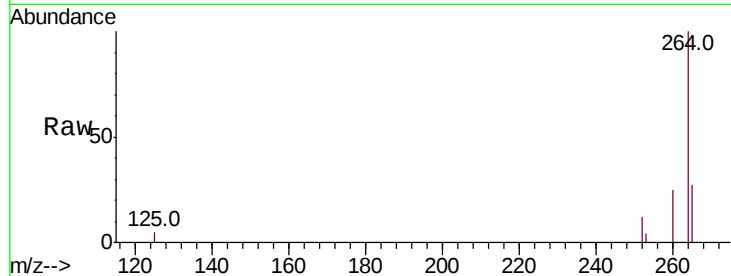




#34
 Pervlene-d12
 Concen: 0.400 ng
 RT: 24.04 min Scan# 2281
 Delta R.T. -0.00 min
 Lab File: BE097713.D
 Acq: 3 Oct 2018 13:26

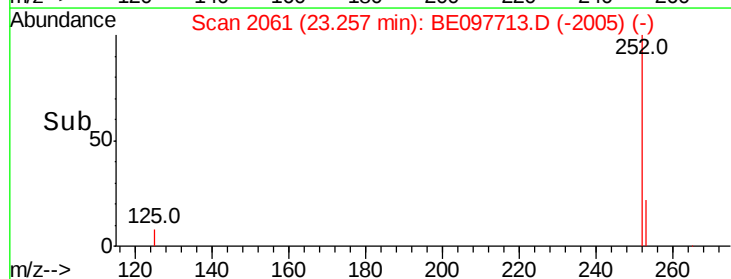
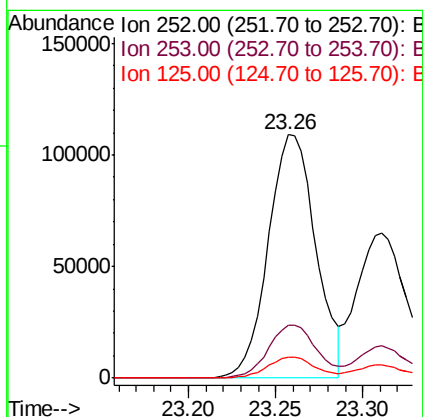
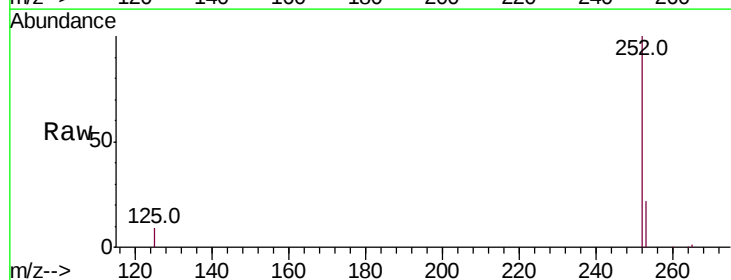
Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WP

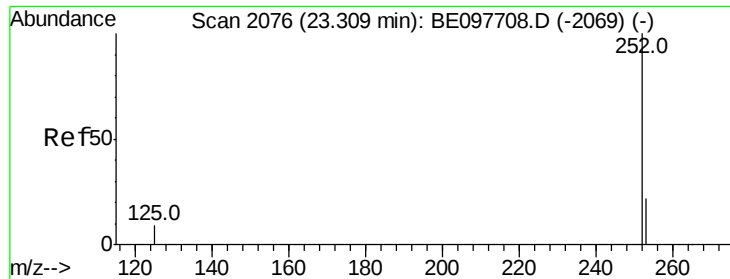
Tot Ion:264 Resp: 41509
 Ion Ratio Lower Upper
 264 100
 260 24.5 19.1 28.7
 265 27.0 21.9 32.9



#35
 Benzo(b)fluoranthene
 Concen: 1.808 ng
 RT: 23.26 min Scan# 2061
 Delta R.T. -0.00 min
 Lab File: BE097713.D
 Acq: 3 Oct 2018 13:26

Tgt Ion:252 Resp: 205941
 Ion Ratio Lower Upper
 252 100
 253 21.7 17.5 26.3
 125 8.6 7.8 11.8





#36

Benzo(k)fluoranthene

Concen: 1.097 ng

RT: 23.31 min Scan# 2076

Delta R.T. 0.00 min

Lab File: BE097713.D

Acq: 3 Oct 2018 13:26

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

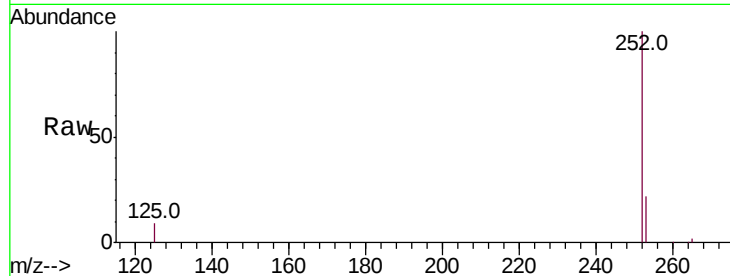
Tot Ion:252 Resp: 138581

Ion Ratio Lower Upper

252 100

253 22.1 17.5 26.3

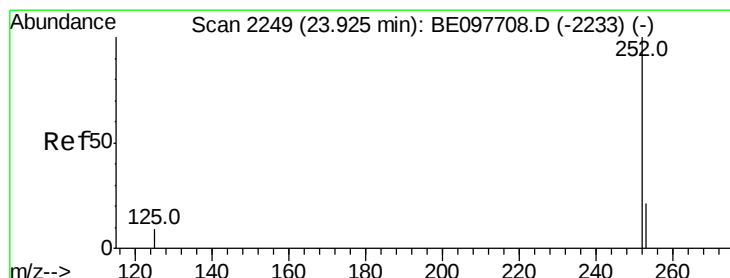
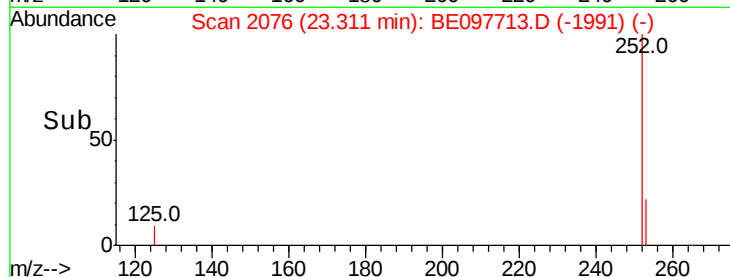
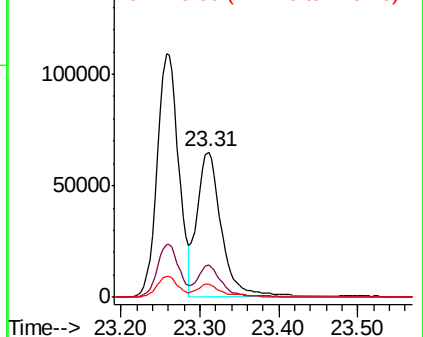
125 8.8 7.5 11.3



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#37

Benzo(a)pyrene

Concen: 4.032 ng

RT: 23.93 min Scan# 2249

Delta R.T. 0.00 min

Lab File: BE097713.D

Acq: 3 Oct 2018 13:26

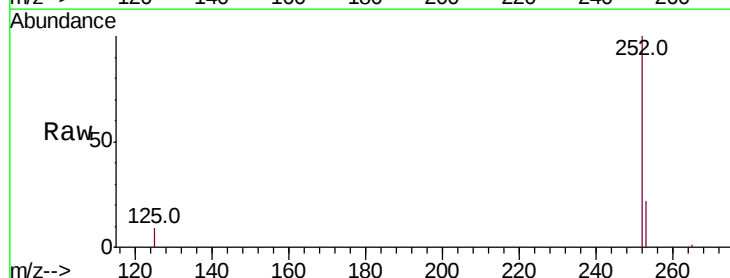
Tgt Ion:252 Resp: 415788

Ion Ratio Lower Upper

252 100

253 21.8 17.7 26.5

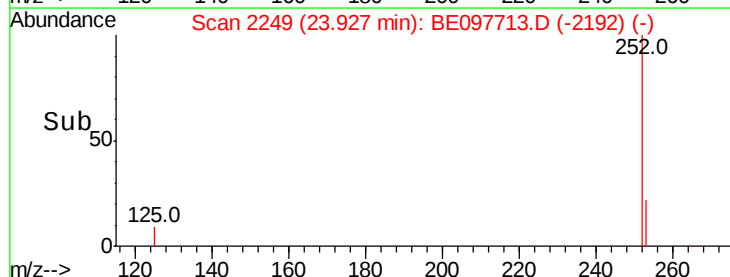
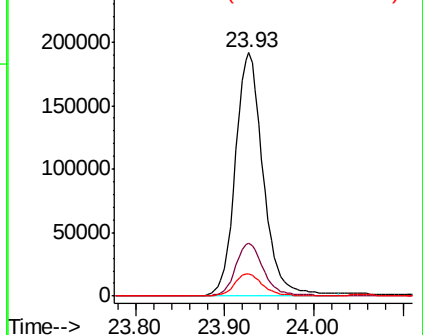
125 9.4 8.3 12.5

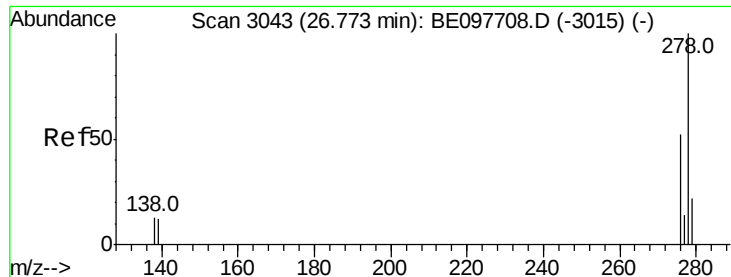


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#38

Dibenzo(a,h)anthracene

Concen: 4.118 ng

RT: 26.77 min Scan# 3042

Delta R.T. -0.00 min

Lab File: BE097713.D

Acq: 3 Oct 2018 13:26

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

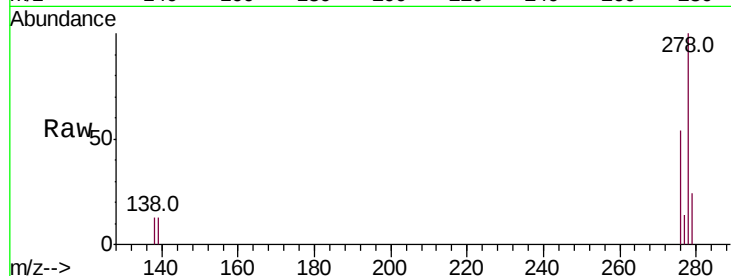
Tot Ion:278 Resp: 418284

Ion Ratio Lower Upper

278 100

139 12.8 10.3 15.5

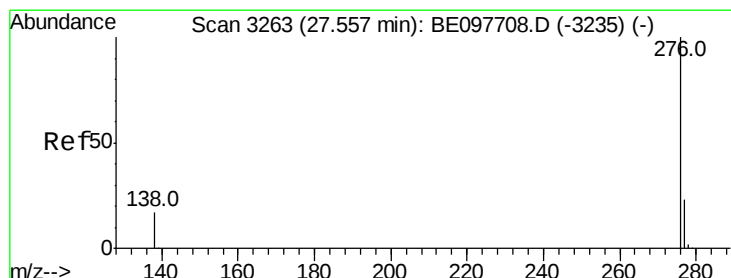
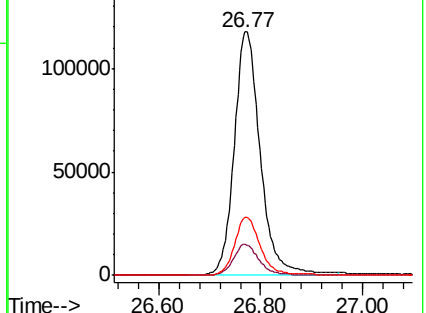
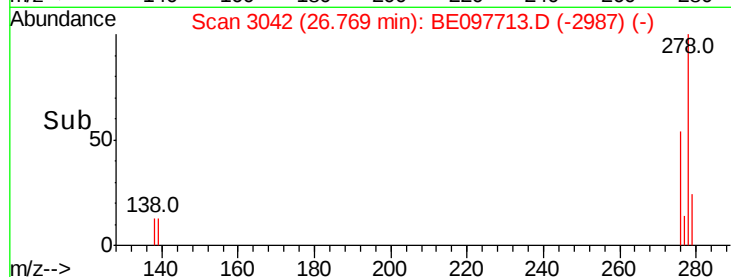
279 23.9 18.4 27.6



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



#39

Benzo(g,h,i)perylene

Concen: 0.632 ng

RT: 27.56 min Scan# 3263

Delta R.T. 0.00 min

Lab File: BE097713.D

Acq: 3 Oct 2018 13:26

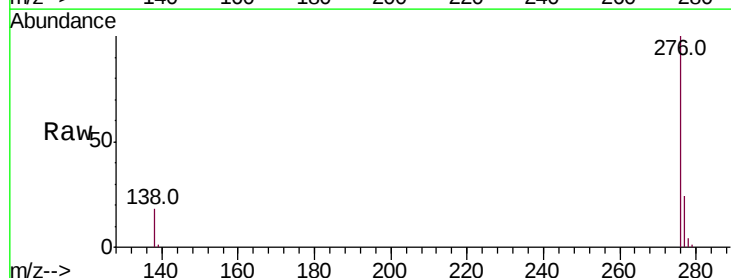
Tgt Ion:276 Resp: 67155

Ion Ratio Lower Upper

276 100

277 24.3 19.1 28.7

138 18.0 14.2 21.2



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

