

Data Path : Z:\HPCHEM1\BNA E\DATA\BE032318\
 Data File : BE095822.D
 Acq On : 23 Mar 2018 13:24
 Operator : SJ/JU
 Sample : J1888-21
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WP

Quant Time: Mar 23 23:33:43 2018
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE032318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 23 12:41:11 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.41	152	1095	0.40	ng	-0.02
7) Naphthalene-d8	11.26	136	3950	0.40	ng	0.00
13) Acenaphthene-d10	15.00	164	2222	0.40	ng	0.00
19) Phenanthrene-d10	17.71	188	5424	0.40	ng	0.00
27) Chrysene-d12	21.80	240	6755	0.40	ng	0.00
34) Perylene-d12	24.43	264	6790	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.91	112	1451	0.40	ng	0.00
5) Phenol-d6	7.56	99	1935	0.39	ng	0.00
8) Nitrobenzene-d5	9.59	82	2129	0.46	ng	0.00
11) 2-Methylnaphthalene-d10	12.79	152	2349	0.36	ng	-0.01
14) 2,4,6-Tribromophenol	16.47	330	473	0.37	ng	0.00
15) 2-Fluorobiphenyl	13.63	172	4477	0.48	ng	-0.01
25) Fluoranthene-d10	19.69	212	29898	0.37	ng	0.00
29) Terphenyl-d14	20.24	244	7334	0.51	ng	0.00

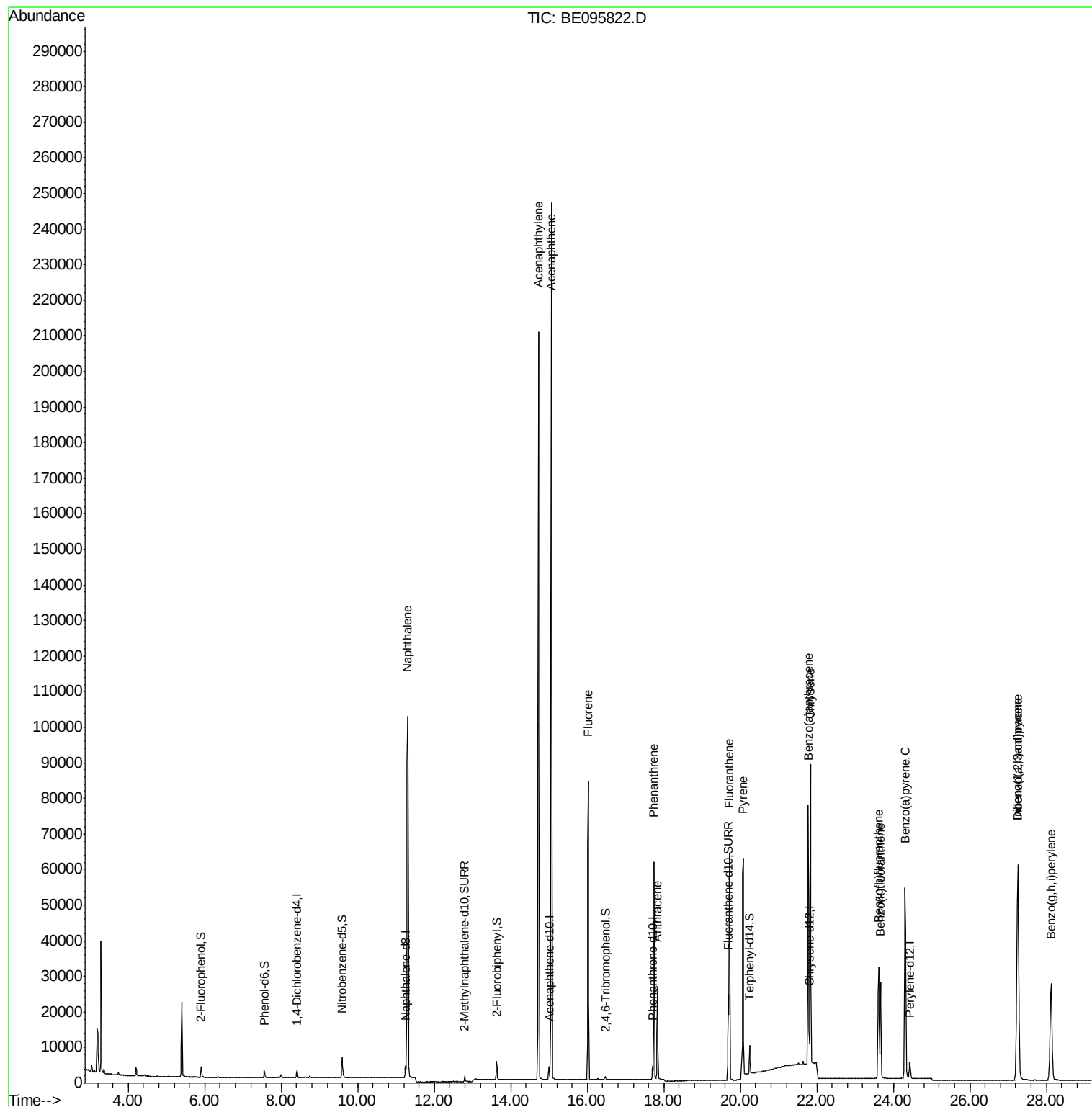
Target Compounds				Qvalue		
9) Naphthalene	11.31	128	177540	3.935	ng	99
16) Acenaphthylene	14.73	152	213040	16.764	ng	99
17) Acenaphthene	15.06	154	116702	15.056	ng	95
18) Fluorene	16.03	166	60590	5.943	ng	# 79
23) Phenanthrene	17.74	178	63292	3.898	ng	99
24) Anthracene	17.84	178	25488	1.570	ng	95
26) Fluoranthene	19.72	202	55014	2.439	ng	# 97
28) Pyrene	20.07	202	81033	2.945	ng	99
30) Benzo(a)anthracene	21.78	228	62867	2.684	ng	98
31) Chrysene	21.84	228	71757	3.357	ng	99
33) Indeno(1,2,3-cd)pyrene	27.25	276	97176	4.219	ng	# 92
35) Benzo(b)fluoranthene	23.61	252	45701	2.035	ng	# 88
36) Benzo(k)fluoranthene	23.67	252	38783	1.726	ng	96
37) Benzo(a)pyrene	24.31	252	86297	4.099	ng	# 93
38) Dibenzo(a,h)anthracene	27.26	278	53811	2.690	ng	# 94
39) Benzo(g,h,i)perylene	28.12	276	67651	3.367	ng	# 89

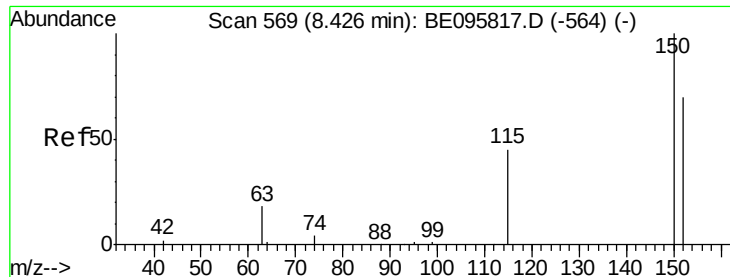
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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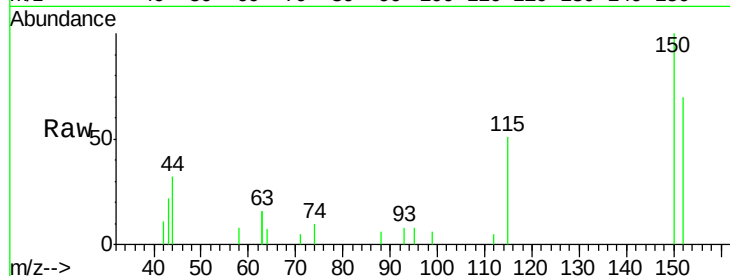


#1

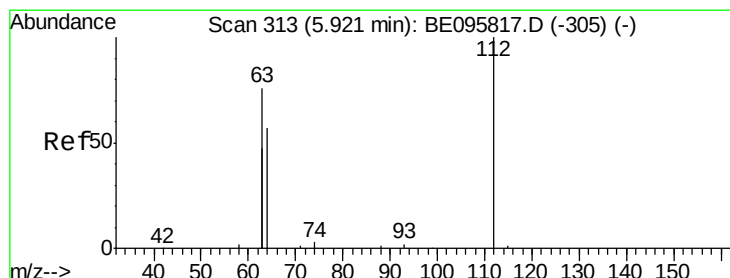
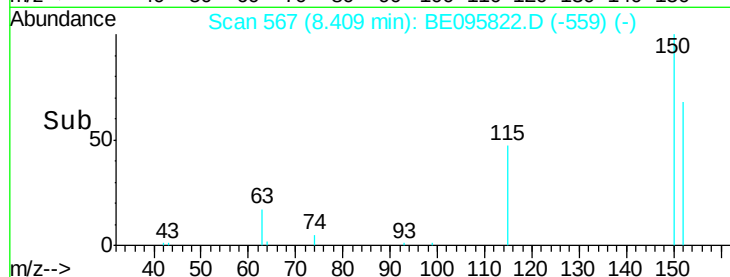
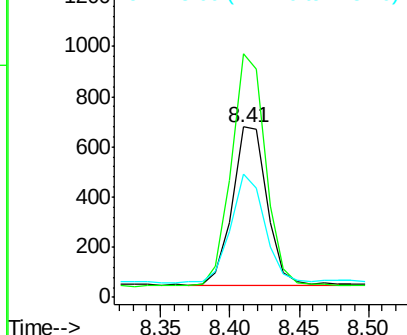
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.41 min Scan# 567
Delta R.T. -0.02 min
Lab File: BE095822.D
Acq: 23 Mar 2018 13:24

Instrument :
BNA_E
ClientSampleId :
RR-PAH-WP

Tot Ion:152 Resp: 1095
Ion Ratio Lower Upper
152 100
150 143.0 117.2 175.8
115 72.6 57.0 85.6



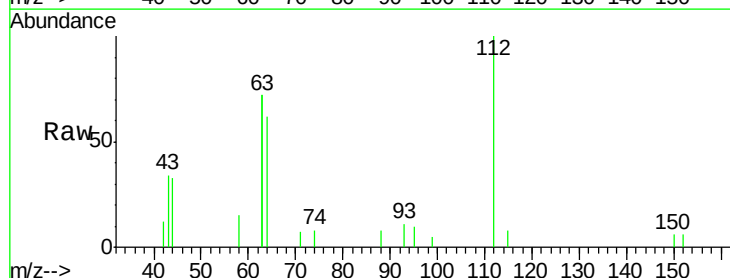
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



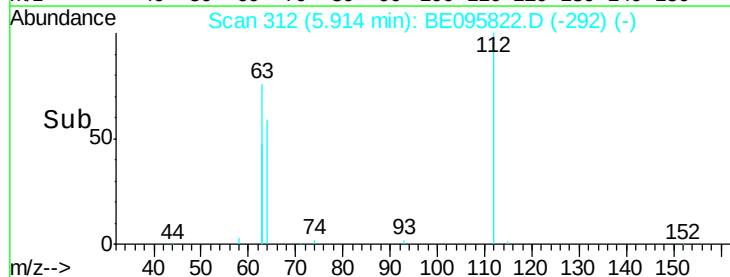
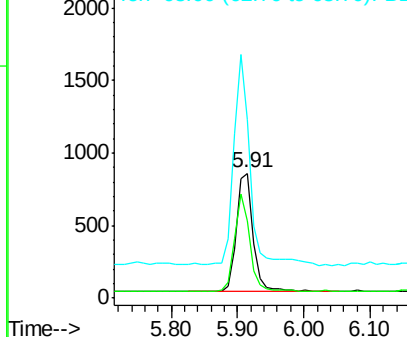
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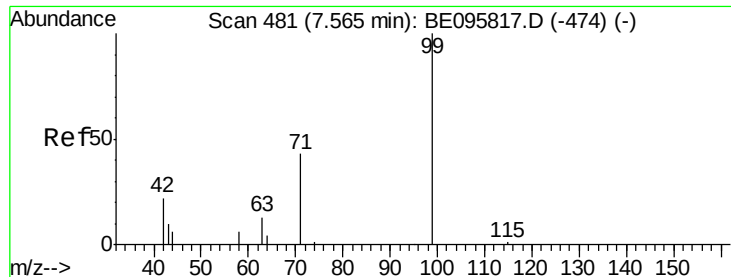
2-Fluorophenol
Concen: 0.402 ng
RT: 5.91 min Scan# 312
Delta R.T. -0.01 min
Lab File: BE095822.D
Acq: 23 Mar 2018 13:24

Tgt Ion:112 Resp: 1451
Ion Ratio Lower Upper
112 100
64 74.5 60.1 90.1
63 169.3 116.8 175.2



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: 0.390 ng

RT: 7.56 min Scan# 480

Delta R.T. -0.01 min

Lab File: BE095822.D

Acq: 23 Mar 2018 13:24

Instrument :

BNA_E

ClientSampled :

RR-PAH-WP

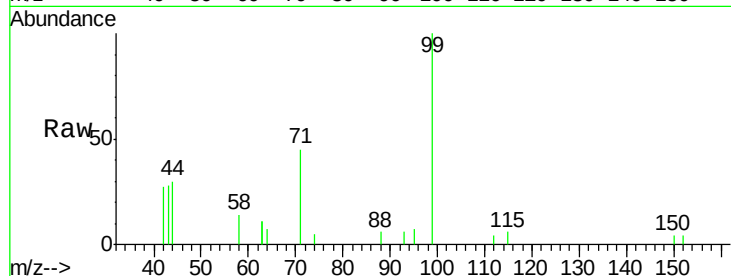
Tot Ion: 99 Resp: 1935

Ion Ratio Lower Upper

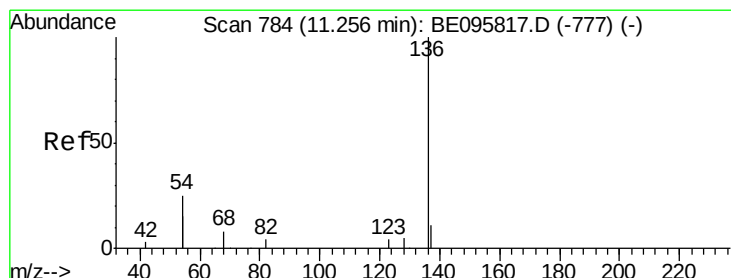
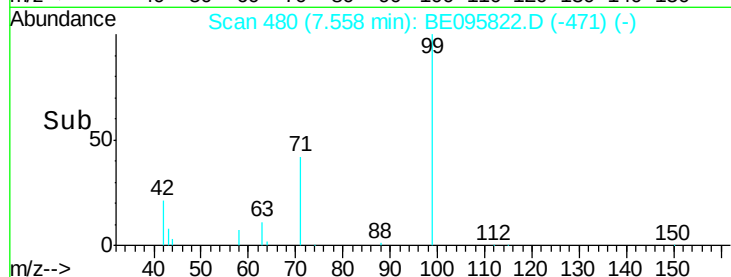
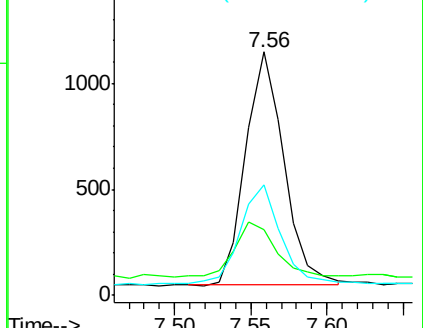
99 100

42 25.6 20.2 30.2

71 45.2 28.4 42.6#



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: 11.26 min Scan# 784

Delta R.T. -0.00 min

Lab File: BE095822.D

Acq: 23 Mar 2018 13:24

Tgt Ion: 136 Resp: 3950

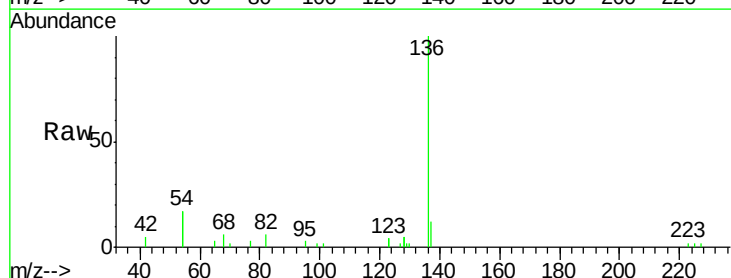
Ion Ratio Lower Upper

136 100

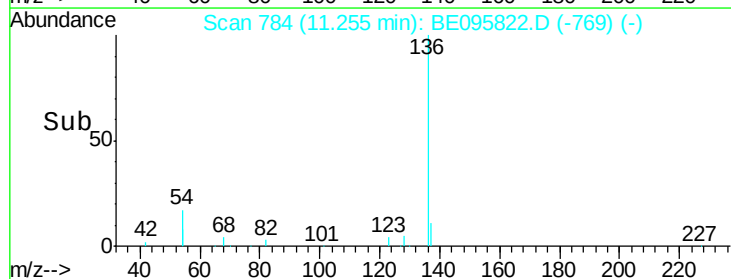
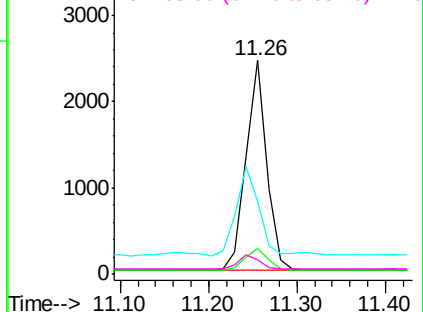
137 12.3 9.5 14.3

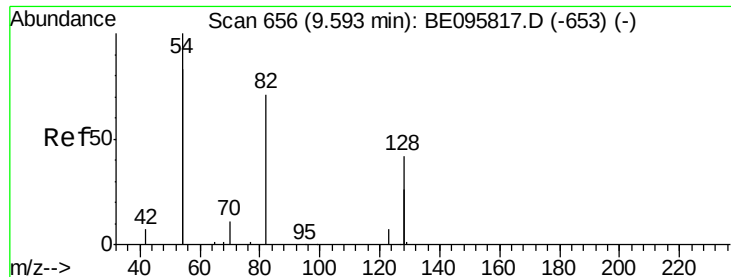
54 34.1 29.1 43.7

68 6.5 6.2 9.2



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

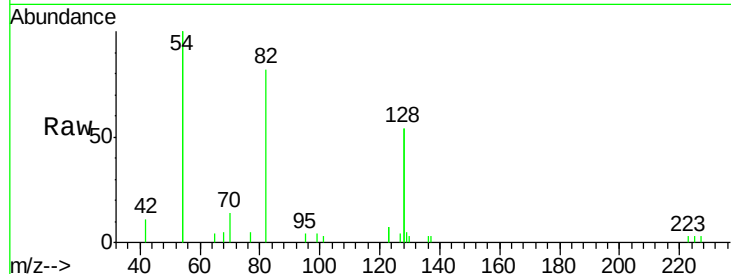




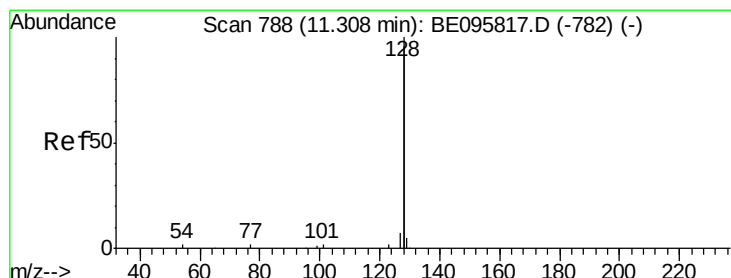
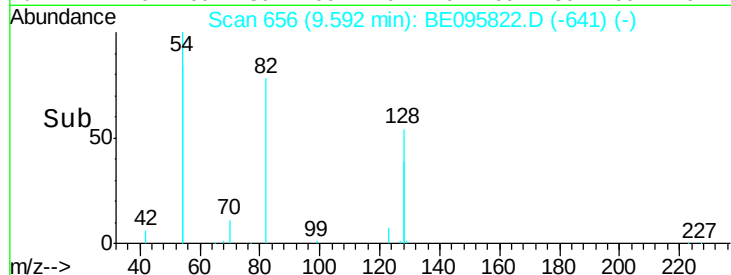
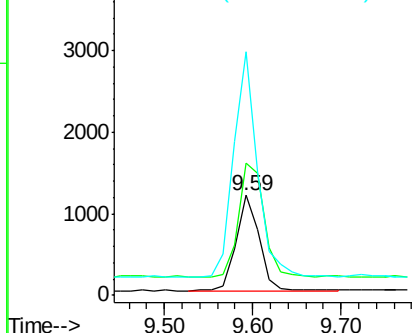
#8
 Nitrobenzene-d5
 Concen: 0.456 ng
 RT: 9.59 min Scan# 656
 Delta R.T. -0.00 min
 Lab File: BE095822.D
 Acq: 23 Mar 2018 13:24

Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
82	100		
128	132.5	150.0	225.0#
54	243.2	154.2	231.4#

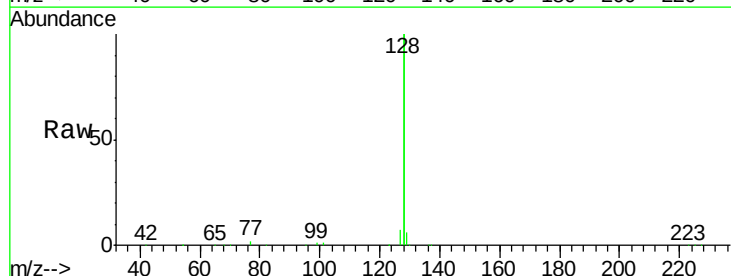


Abundance Ion 82.00 (81.70 to 82.70): BE0
 Ion 128.00 (127.70 to 128.70): BE0
 Ion 54.00 (53.70 to 54.70): BE0

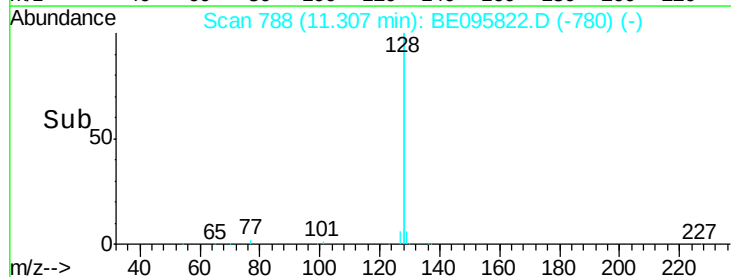
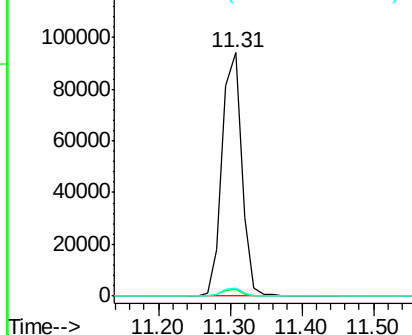


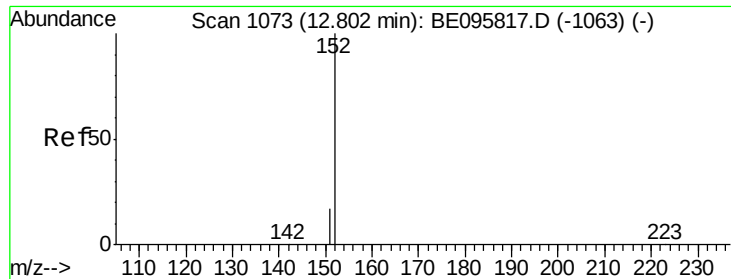
#9
 Naphthalene
 Concen: 3.935 ng
 RT: 11.31 min Scan# 788
 Delta R.T. -0.00 min
 Lab File: BE095822.D
 Acq: 23 Mar 2018 13:24

Tgt Ion	Ratio	Lower	Upper
128	100		
129	2.9	2.6	3.8
127	3.3	2.8	4.2



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

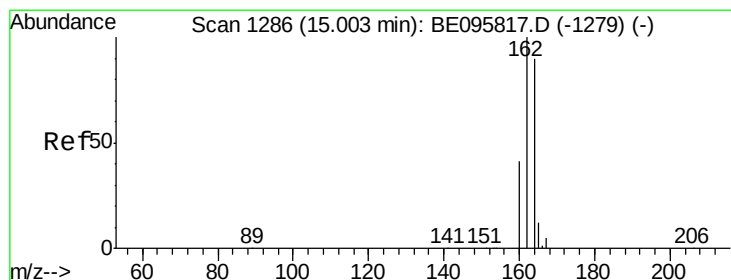
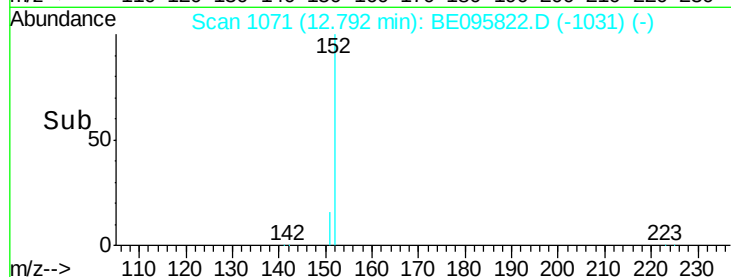
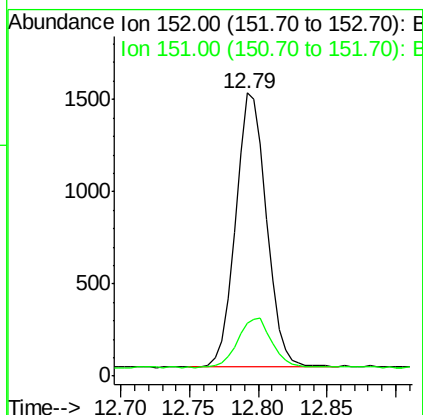
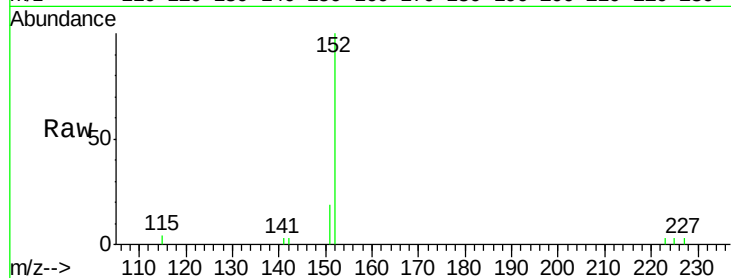




#11
 2-Methylnaphthalene-d10
 Concen: 0.356 ng
 RT: 12.79 min Scan# 1071
 Delta R.T. -0.01 min
 Lab File: BE095822.D
 Acq: 23 Mar 2018 13:24

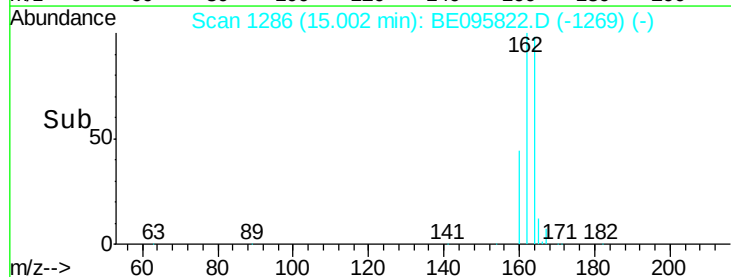
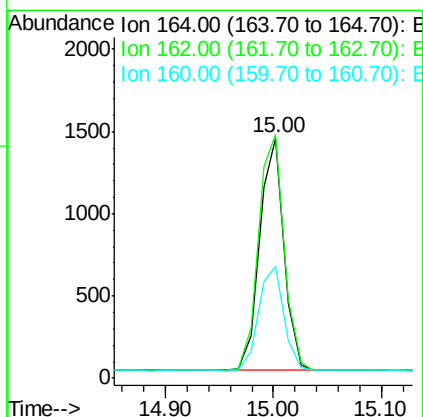
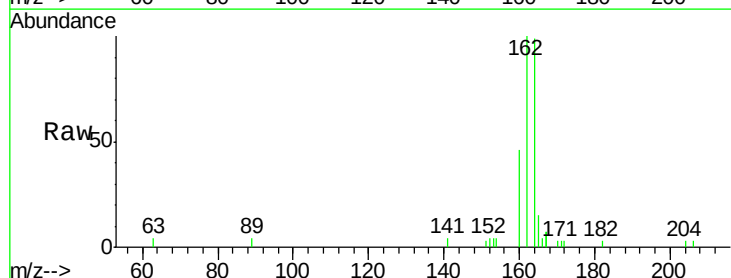
Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WP

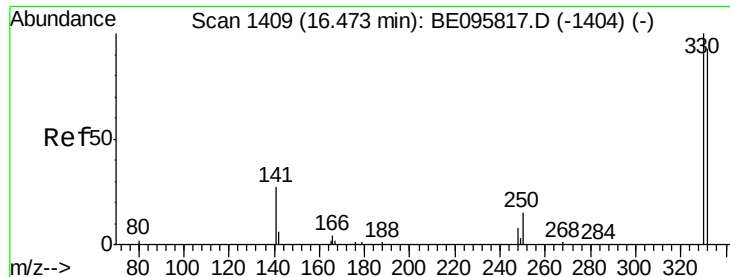
Tot Ion:152 Resp: 2349
 Ion Ratio Lower Upper
 152 100
 151 20.3 15.4 23.0



#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 15.00 min Scan# 1286
 Delta R.T. -0.00 min
 Lab File: BE095822.D
 Acq: 23 Mar 2018 13:24

Tgt Ion:164 Resp: 2222
 Ion Ratio Lower Upper
 164 100
 162 101.4 83.1 124.7
 160 46.5 37.1 55.7

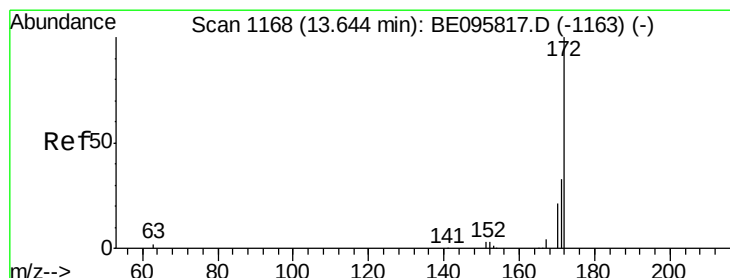
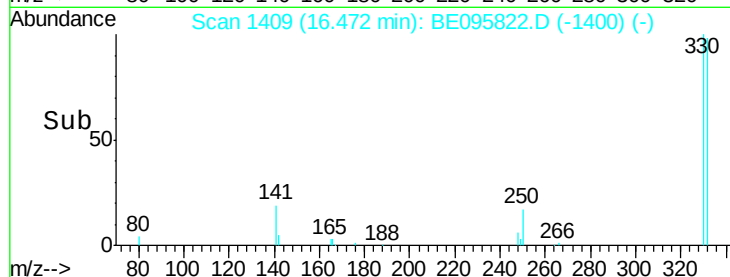
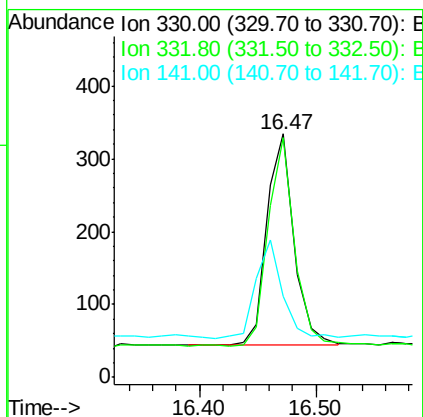
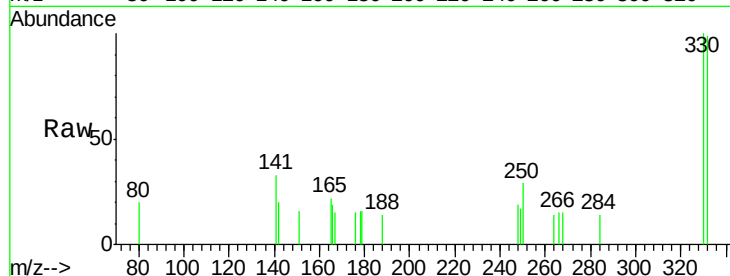




#14
2,4,6-Tribromophenol
Concen: 0.369 ng
RT: 16.47 min Scan# 1409
Delta R.T. -0.00 min
Lab File: BE095822.D
Acq: 23 Mar 2018 13:24

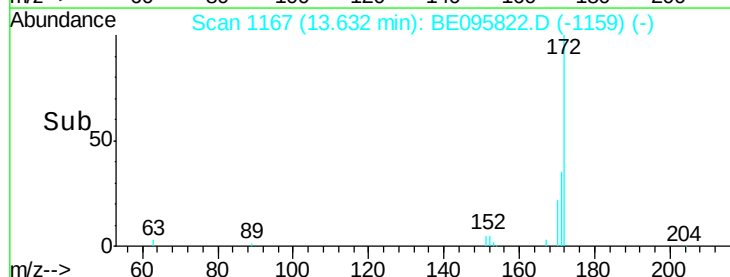
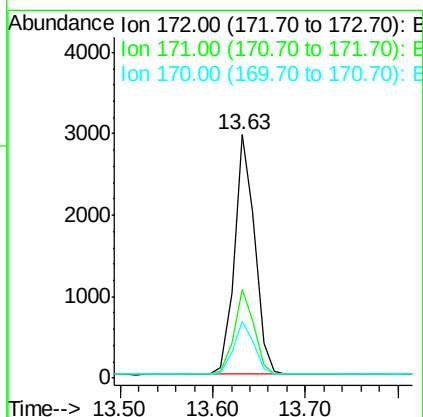
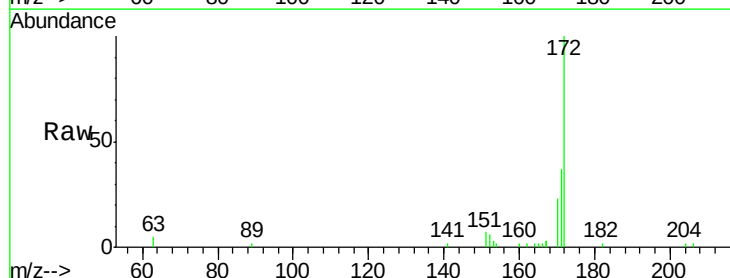
Instrument :
BNA_E
ClientSampleId :
RR-PAH-WP

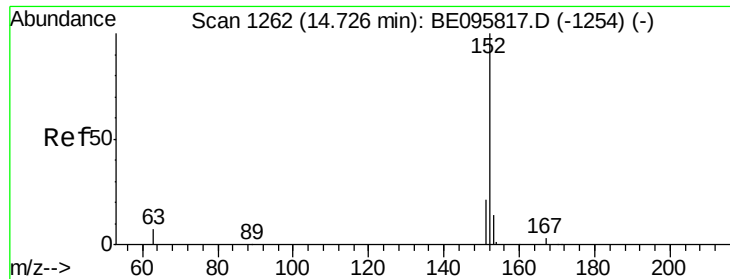
Tot Ion:330 Resp: 473
Ion Ratio Lower Upper
330 100
332 95.6 152.7 229.1#
141 46.1 33.7 50.5



#15
2-Fluorobiphenyl
Concen: 0.478 ng
RT: 13.63 min Scan# 1167
Delta R.T. -0.01 min
Lab File: BE095822.D
Acq: 23 Mar 2018 13:24

Tgt Ion:172 Resp: 4477
Ion Ratio Lower Upper
172 100
171 36.5 29.9 44.9
170 23.2 21.8 32.8





#16

Acenaphthylene

Concen: 16.764 ng

RT: 14.73 min Scan# 1262

Delta R.T. -0.00 min

Lab File: BE095822.D

Acq: 23 Mar 2018 13:24

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

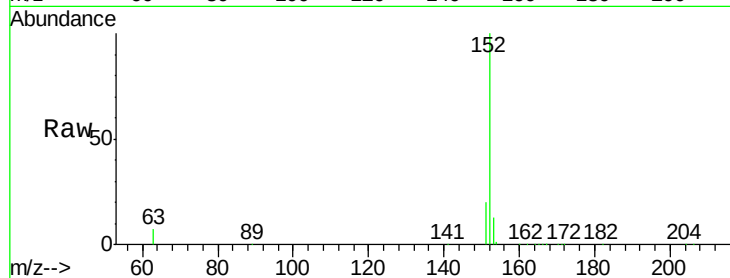
Tot Ion:152 Resp: 213040

Ion Ratio Lower Upper

152 100

151 20.2 15.7 23.5

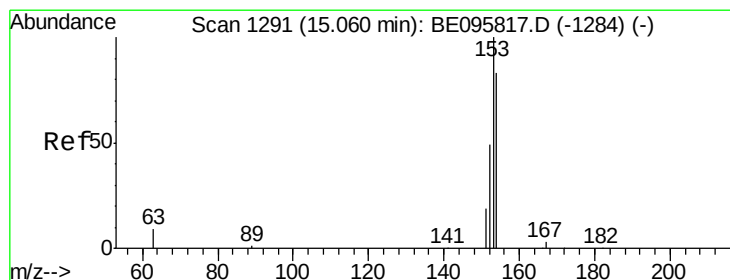
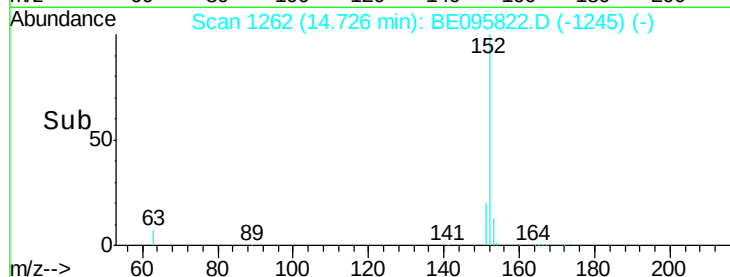
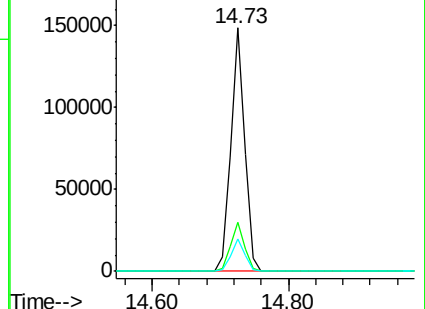
153 13.1 10.5 15.7



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: 15.056 ng

RT: 15.06 min Scan# 1291

Delta R.T. -0.00 min

Lab File: BE095822.D

Acq: 23 Mar 2018 13:24

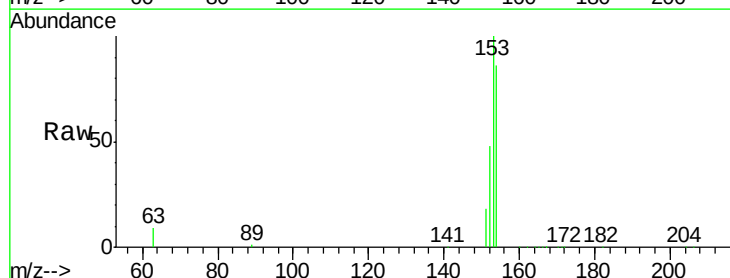
Tgt Ion:154 Resp: 116702

Ion Ratio Lower Upper

154 100

153 116.1 89.2 133.8

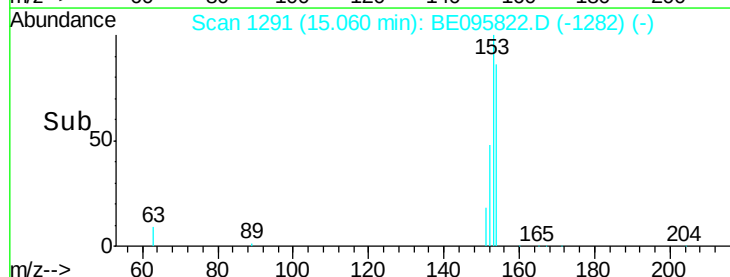
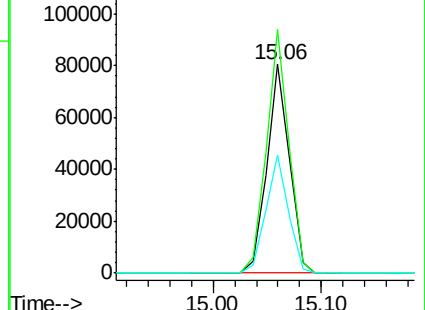
152 56.4 42.0 63.0

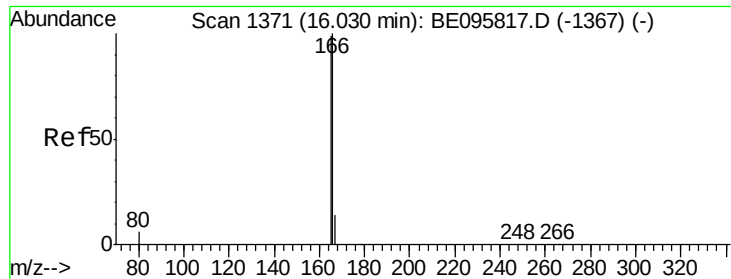


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

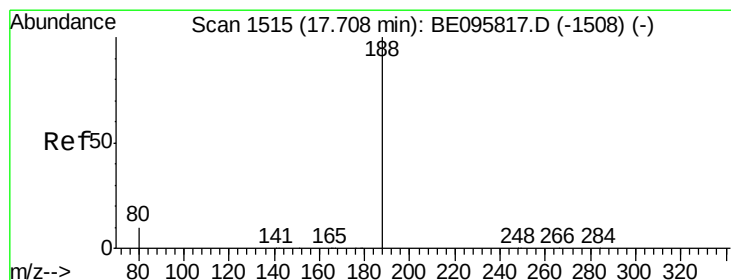
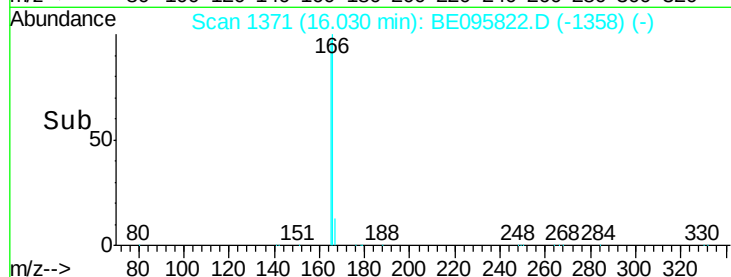
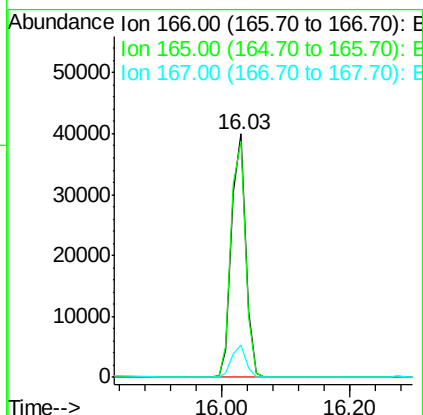
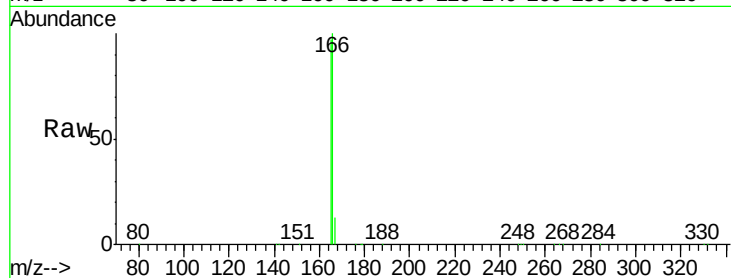




#18
 Fluorene
 Concen: 5.943 ng
 RT: 16.03 min Scan# 1371
 Delta R.T. -0.00 min
 Lab File: BE095822.D
 Acq: 23 Mar 2018 13:24

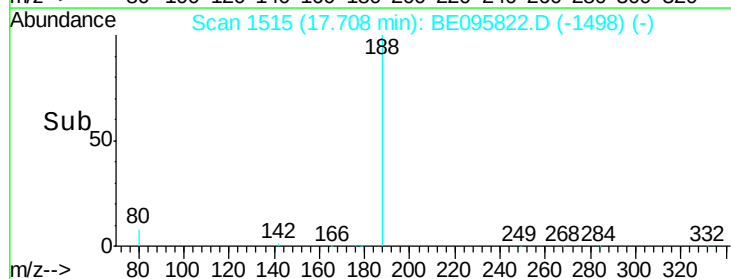
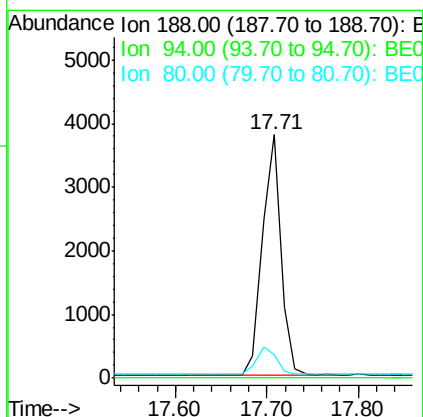
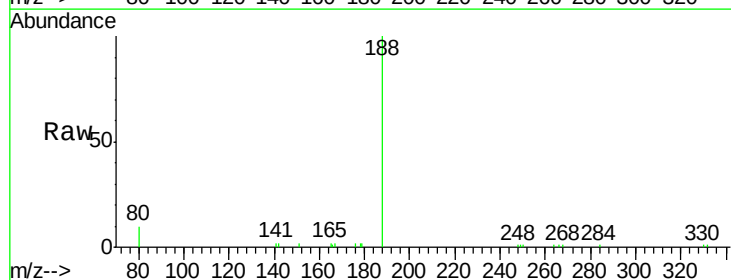
Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WP

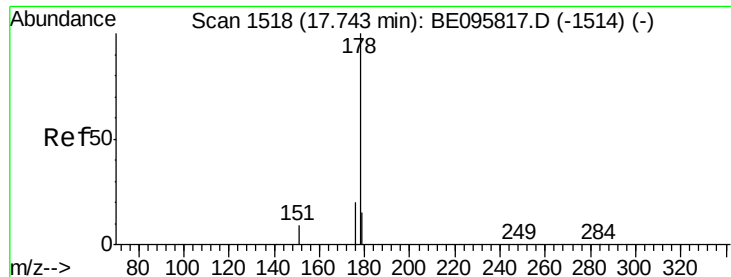
Tot Ion:166 Resp: 60590
 Ion Ratio Lower Upper
 166 100
 165 99.7 77.8 116.6
 167 13.1 42.4 63.6#



#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.71 min Scan# 1515
 Delta R.T. -0.00 min
 Lab File: BE095822.D
 Acq: 23 Mar 2018 13:24

Tgt Ion:188 Resp: 5424
 Ion Ratio Lower Upper
 188 100
 94 0.0 3.9 5.9#
 80 9.6 3.6 5.4#





#23

Phenanthrene

Concen: 3.898 ng

RT: 17.74 min Scan# 1518

Delta R.T. -0.00 min

Lab File: BE095822.D

Acq: 23 Mar 2018 13:24

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

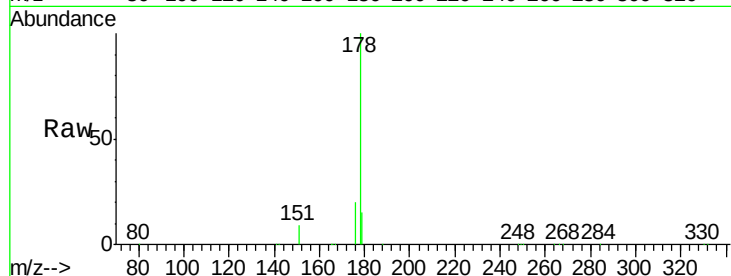
Tot Ion:178 Resp: 63292

Ion Ratio Lower Upper

178 100

176 19.7 15.1 22.7

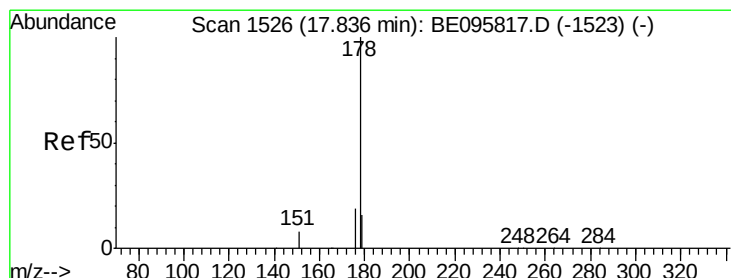
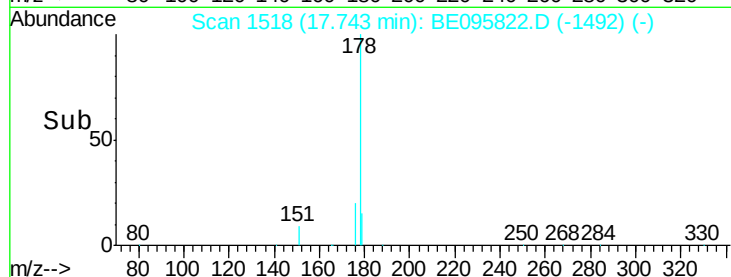
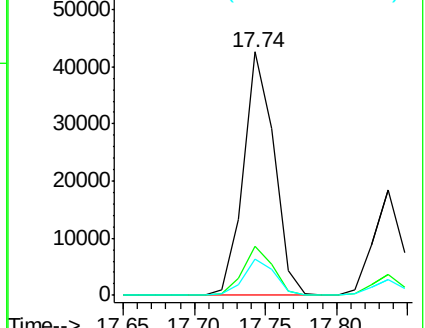
179 15.1 11.8 17.6



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: 1.570 ng

RT: 17.84 min Scan# 1526

Delta R.T. -0.00 min

Lab File: BE095822.D

Acq: 23 Mar 2018 13:24

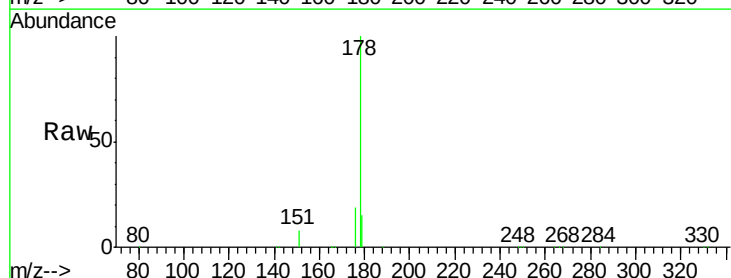
Tgt Ion:178 Resp: 25488

Ion Ratio Lower Upper

178 100

176 19.0 12.8 19.2

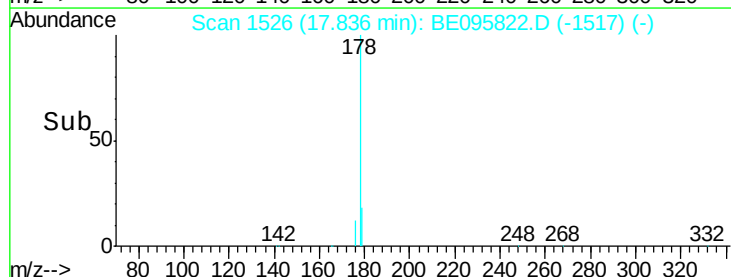
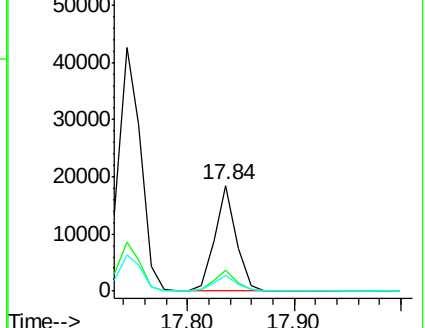
179 15.2 13.0 19.6

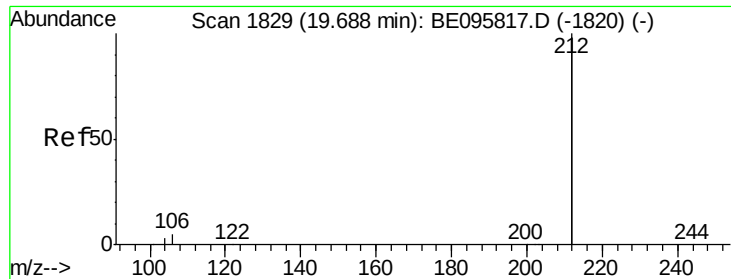


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.371 ng

RT: 19.69 min Scan# 1829

Delta R.T. -0.00 min

Lab File: BE095822.D

Acq: 23 Mar 2018 13:24

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

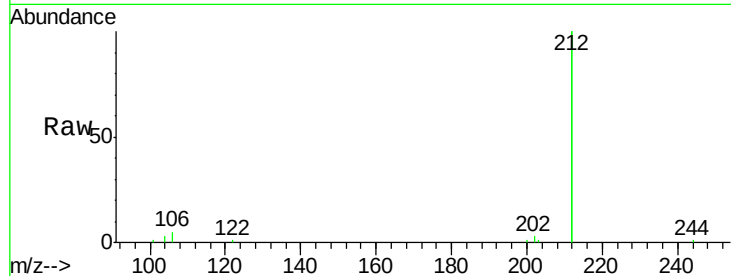
Tot Ion:212 Resp: 29898

Ion Ratio Lower Upper

212 100

106 2.8 2.8 4.2

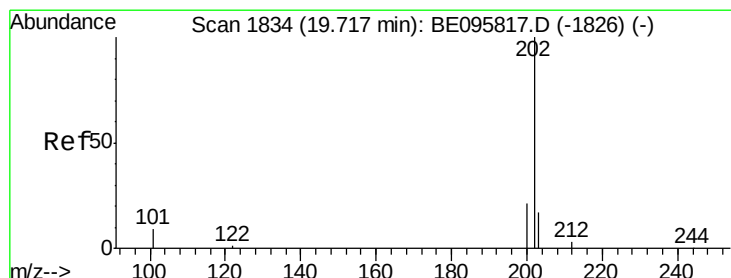
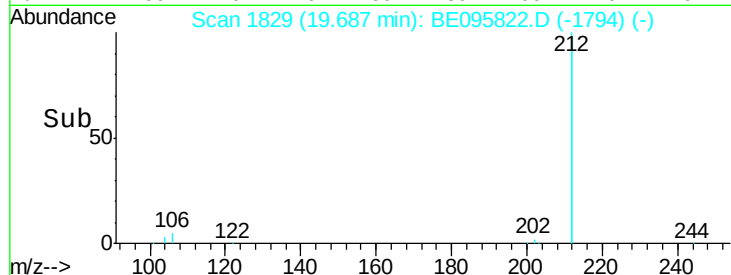
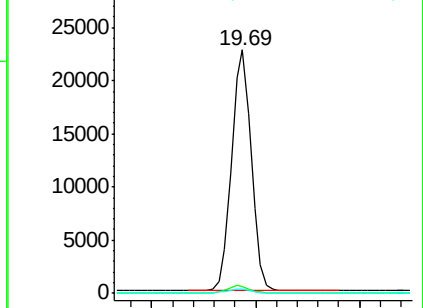
104 1.7 1.6 2.4



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: 2.439 ng

RT: 19.72 min Scan# 1834

Delta R.T. -0.00 min

Lab File: BE095822.D

Acq: 23 Mar 2018 13:24

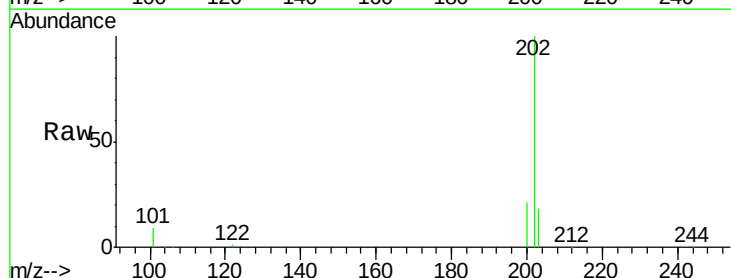
Tgt Ion:202 Resp: 55014

Ion Ratio Lower Upper

202 100

101 9.6 9.8 14.8#

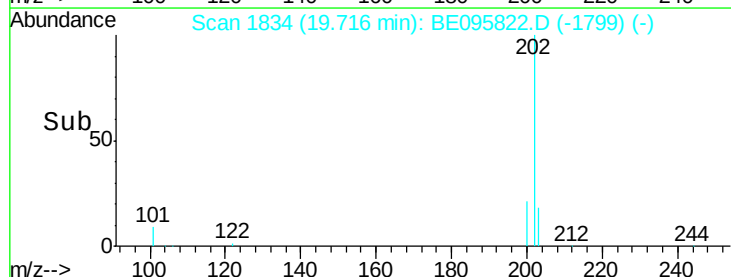
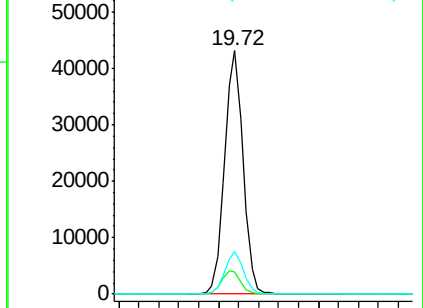
203 17.1 13.7 20.5

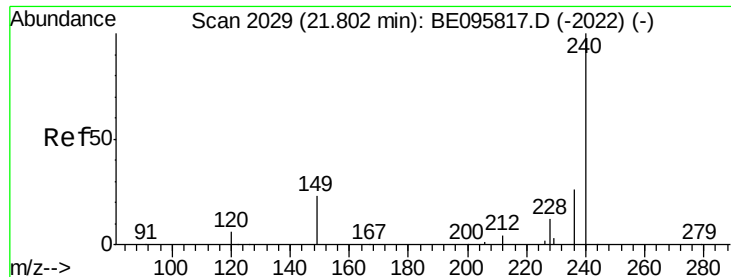


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.80 min Scan# 2029

Delta R.T. 0.00 min

Lab File: BE095822.D

Acq: 23 Mar 2018 13:24

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

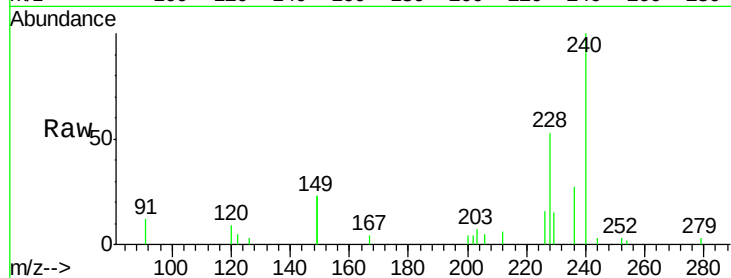
Tot Ion:240 Resp: 6755

Ion Ratio Lower Upper

240 100

120 8.5 5.5 8.3#

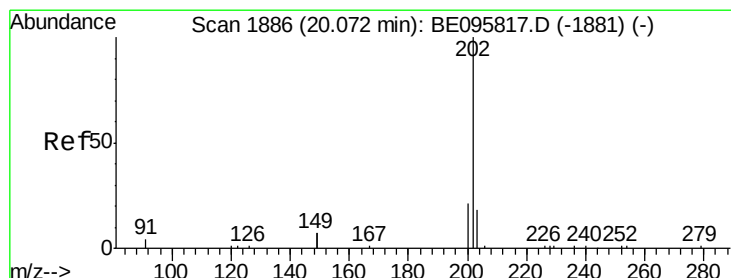
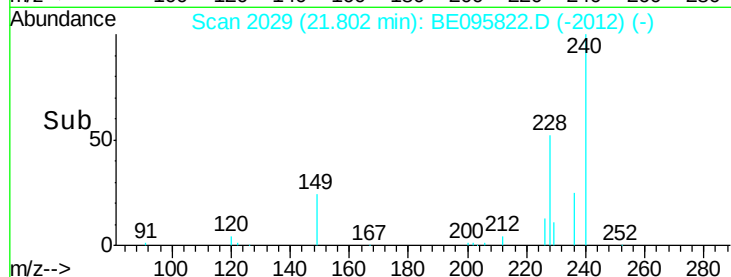
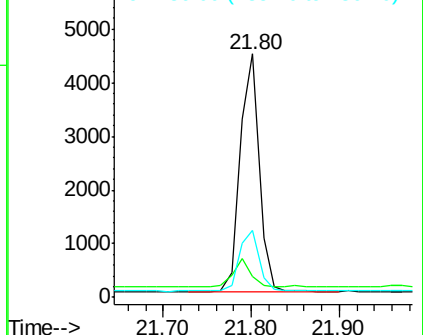
236 27.3 20.7 31.1



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: 2.945 ng

RT: 20.07 min Scan# 1886

Delta R.T. 0.00 min

Lab File: BE095822.D

Acq: 23 Mar 2018 13:24

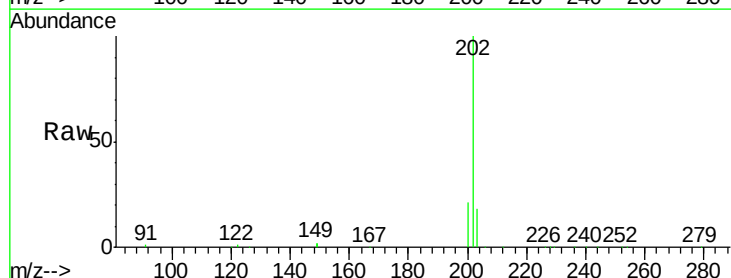
Tgt Ion:202 Resp: 81033

Ion Ratio Lower Upper

202 100

200 19.7 16.6 25.0

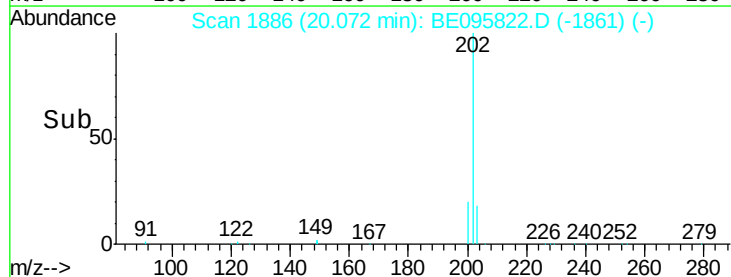
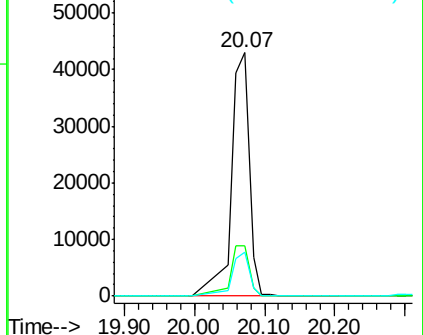
203 17.3 13.8 20.8

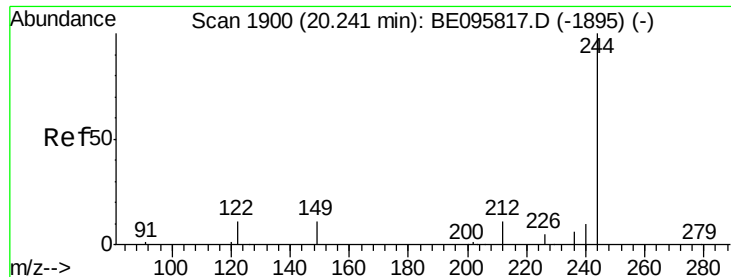


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.511 ng

RT: 20.24 min Scan# 1900

Delta R.T. 0.00 min

Lab File: BE095822.D

Acq: 23 Mar 2018 13:24

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

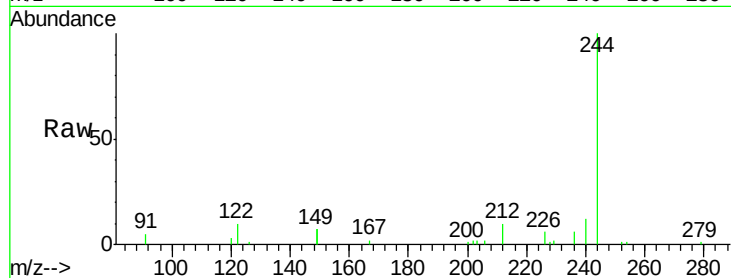
Tot Ion:244 Resp: 7334

Ion Ratio Lower Upper

244 100

212 10.0 25.4 38.0#

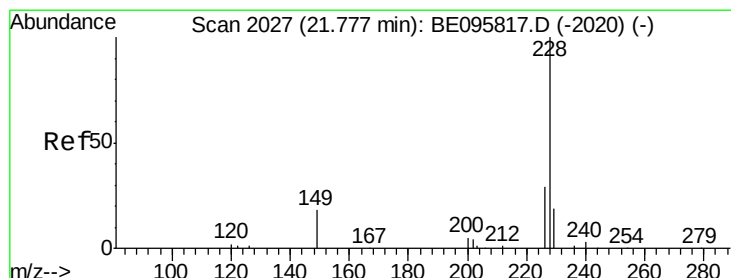
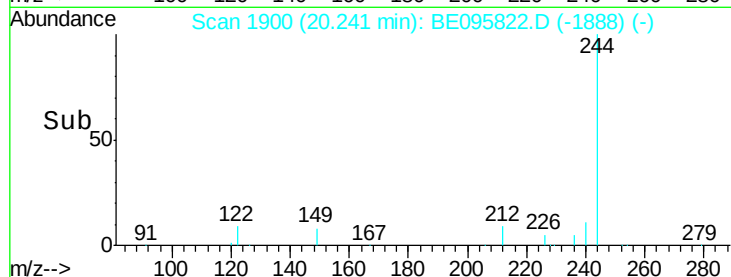
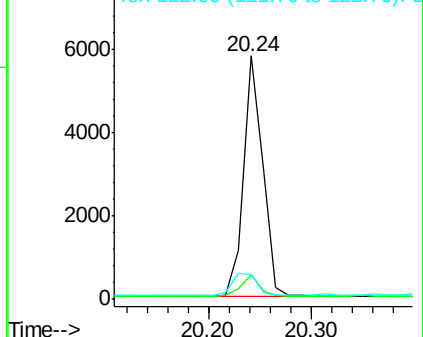
122 10.1 8.1 12.1



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: 2.684 ng

RT: 21.78 min Scan# 2027

Delta R.T. 0.00 min

Lab File: BE095822.D

Acq: 23 Mar 2018 13:24

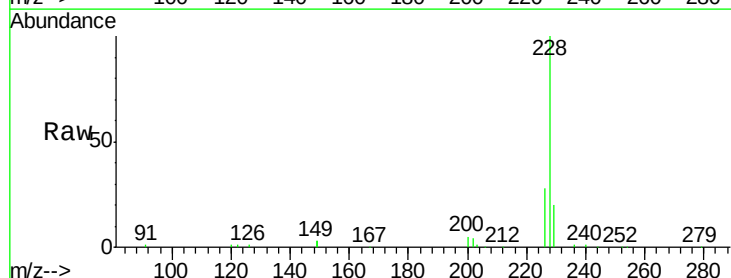
Tgt Ion:228 Resp: 62867

Ion Ratio Lower Upper

228 100

226 28.2 24.0 36.0

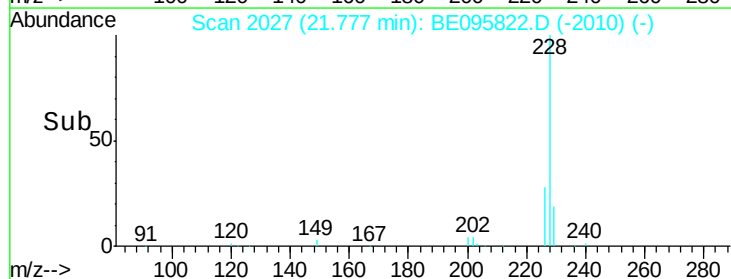
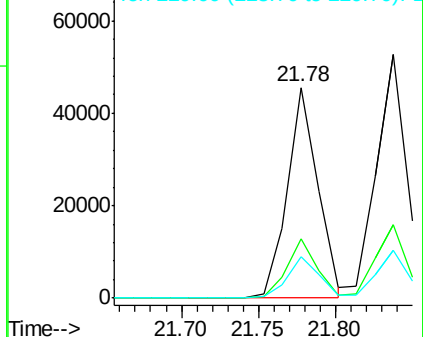
229 19.7 16.0 24.0

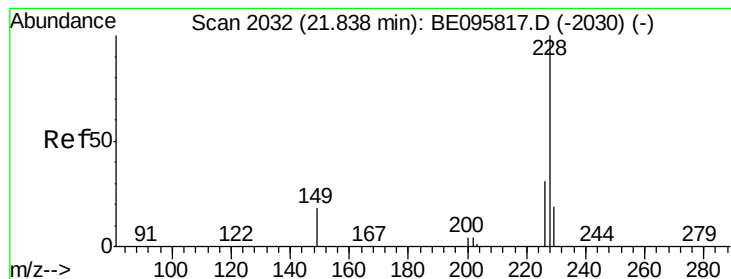


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 3.357 ng

RT: 21.84 min Scan# 2032

Delta R.T. 0.00 min

Lab File: BE095822.D

Acq: 23 Mar 2018 13:24

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

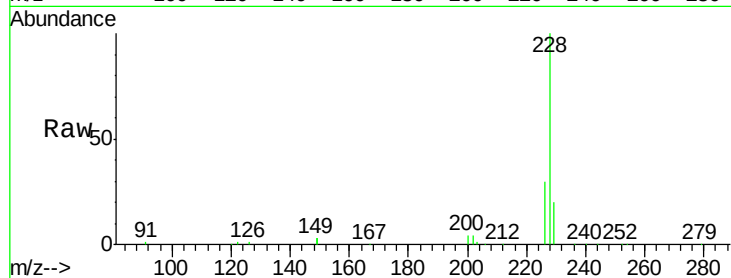
Tot Ion:228 Resp: 71757

Ion Ratio Lower Upper

228 100

226 30.4 24.0 36.0

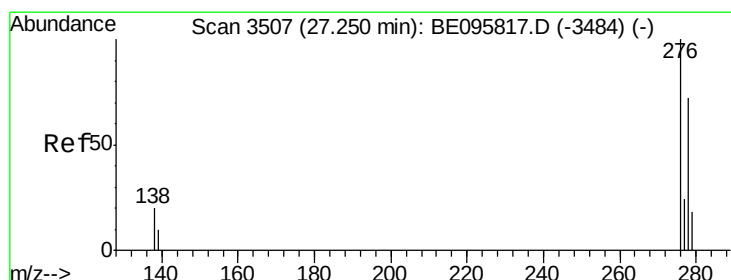
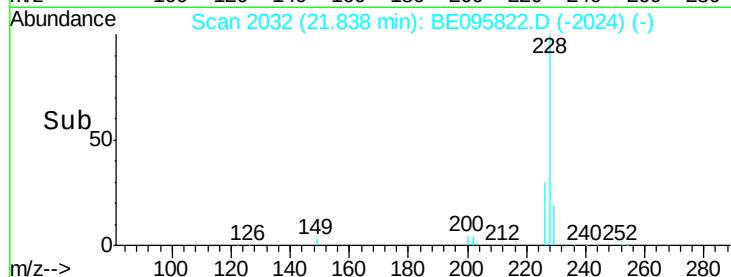
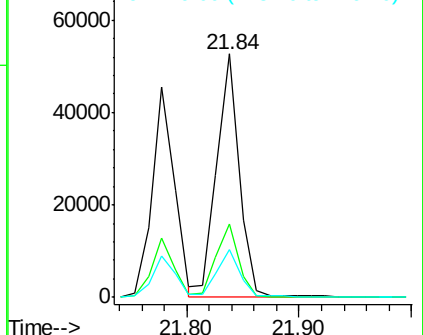
229 19.7 16.0 24.0



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: 4.219 ng

RT: 27.25 min Scan# 3506

Delta R.T. -0.00 min

Lab File: BE095822.D

Acq: 23 Mar 2018 13:24

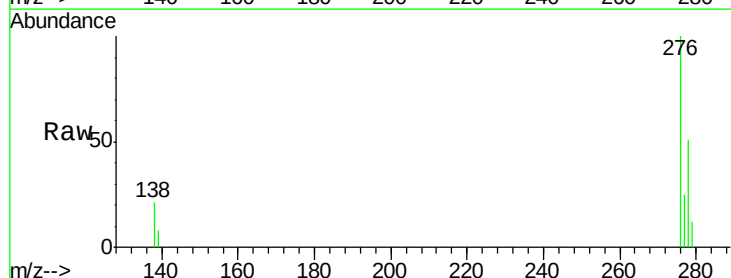
Tgt Ion:276 Resp: 97176

Ion Ratio Lower Upper

276 100

138 20.0 22.5 33.7#

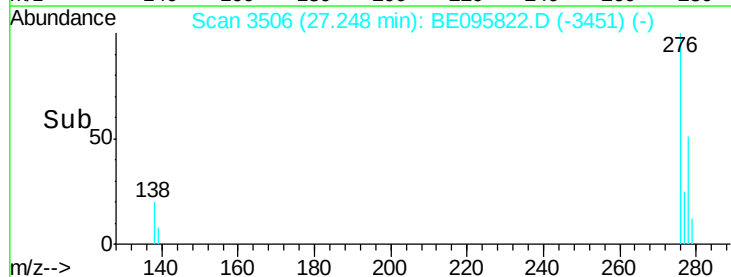
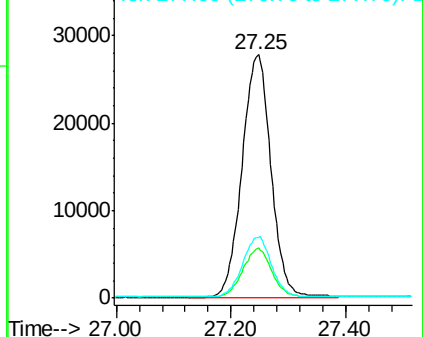
277 24.8 19.9 29.9

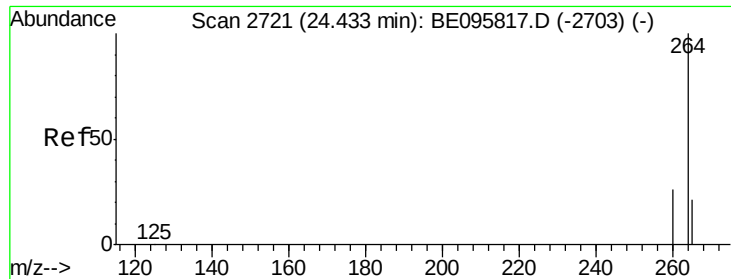


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

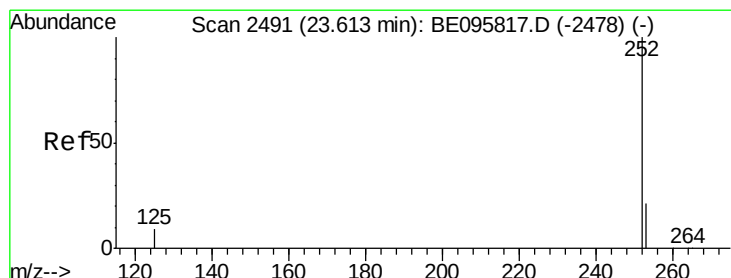
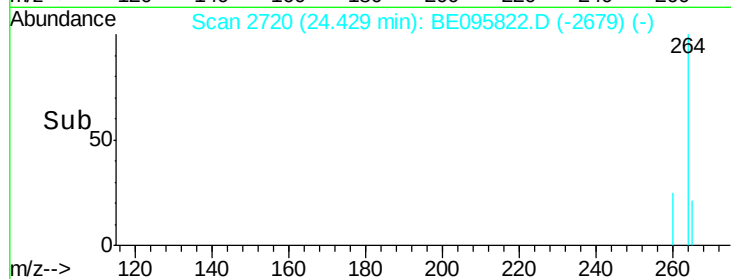
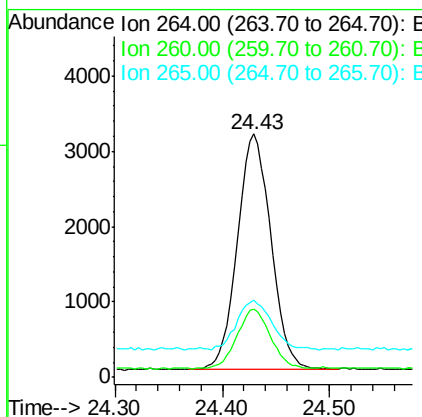
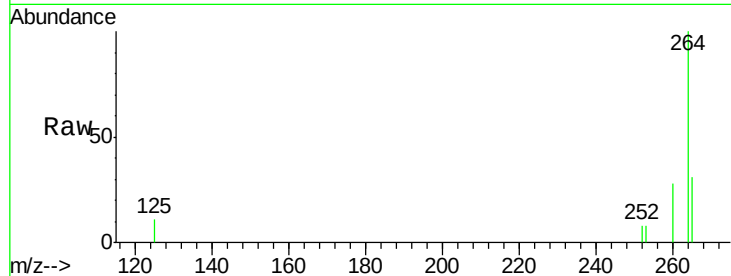




#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 24.43 min Scan# 2720
 Delta R.T. -0.00 min
 Lab File: BE095822.D
 Acq: 23 Mar 2018 13:24

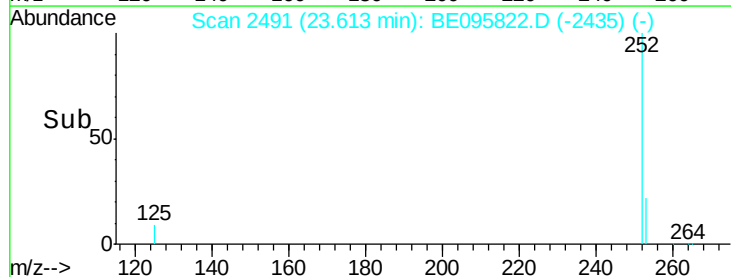
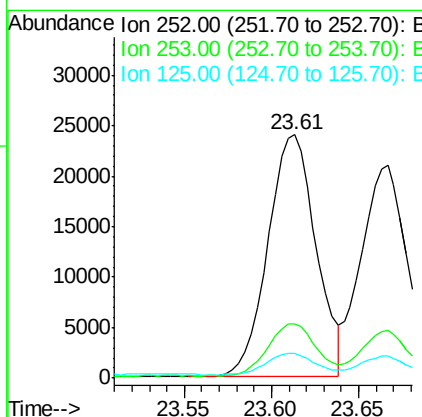
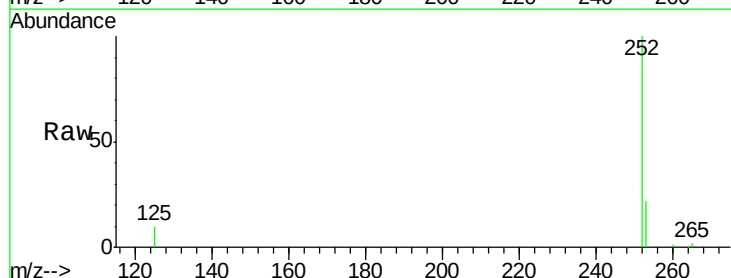
Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WP

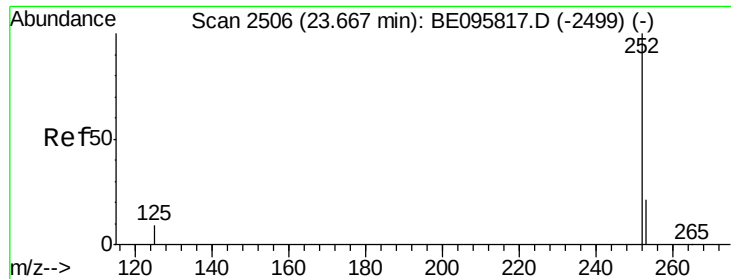
Tot Ion:264 Resp: 6790
 Ion Ratio Lower Upper
 264 100
 260 28.0 20.5 30.7
 265 31.5 22.8 34.2



#35
 Benzo(b)fluoranthene
 Concen: 2.035 ng
 RT: 23.61 min Scan# 2491
 Delta R.T. -0.00 min
 Lab File: BE095822.D
 Acq: 23 Mar 2018 13:24

Tgt Ion:252 Resp: 45701
 Ion Ratio Lower Upper
 252 100
 253 22.4 20.0 30.0
 125 10.2 16.0 24.0#

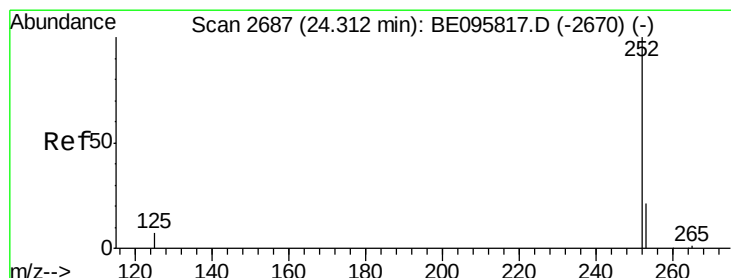
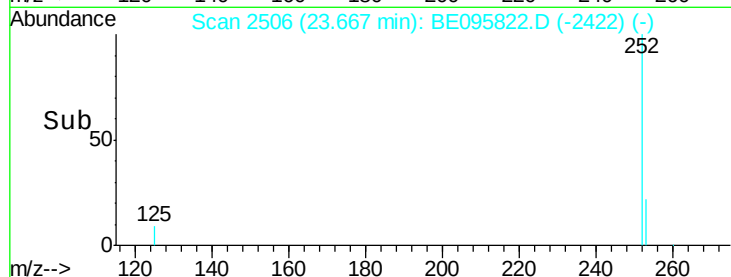
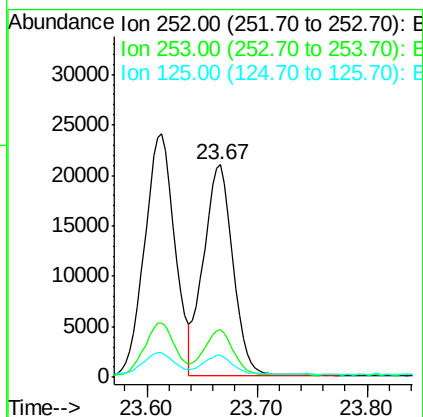
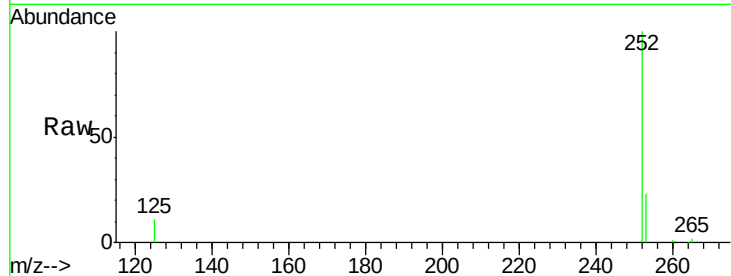




#36
Benzo(k)fluoranthene
Concen: 1.726 ng
RT: 23.67 min Scan# 2506
Delta R.T. -0.00 min
Lab File: BE095822.D
Acq: 23 Mar 2018 13:24

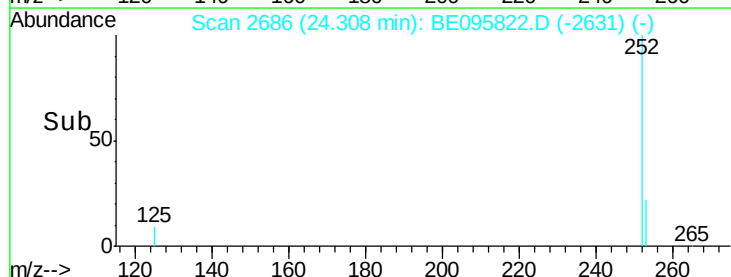
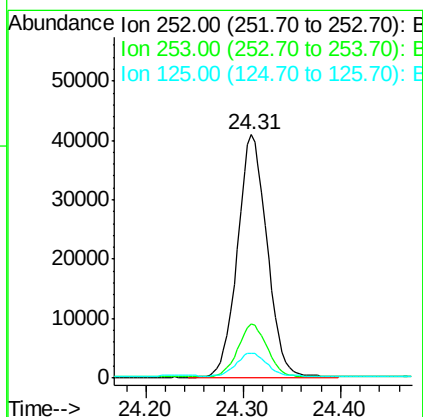
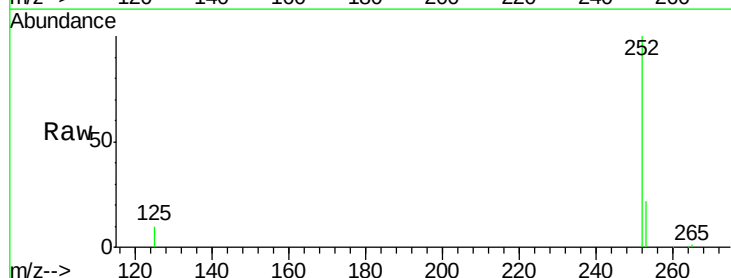
Instrument :
BNA_E
ClientSampleId :
RR-PAH-WP

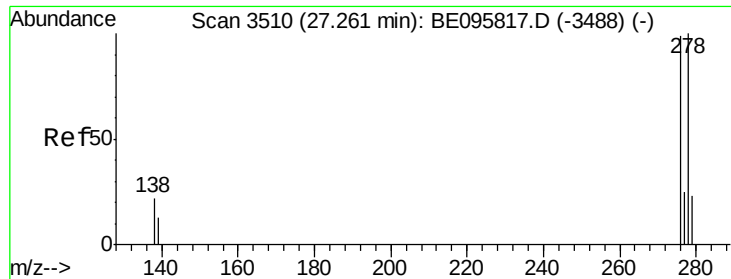
Tot Ion:252 Resp: 38783
Ion Ratio Lower Upper
252 100
253 22.7 16.0 24.0
125 10.5 8.0 12.0



#37
Benzo(a)pyrene
Concen: 4.099 ng
RT: 24.31 min Scan# 2686
Delta R.T. -0.00 min
Lab File: BE095822.D
Acq: 23 Mar 2018 13:24

Tgt Ion:252 Resp: 86297
Ion Ratio Lower Upper
252 100
253 22.1 16.0 24.0
125 10.3 12.0 18.0#





#38

Dibenzo(a,h)anthracene

Concen: 2.690 ng

RT: 27.26 min Scan# 3509

Delta R.T. -0.00 min

Lab File: BE095822.D

Acq: 23 Mar 2018 13:24

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

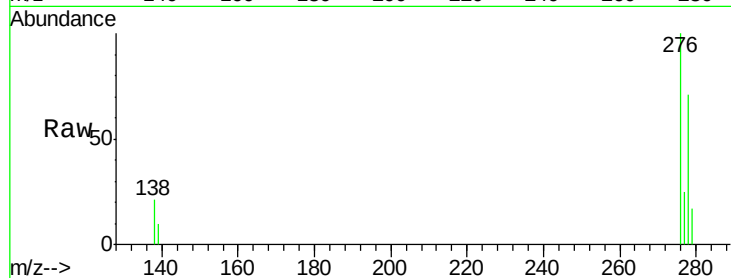
Tot Ion:278 Resp: 53811

Ion Ratio Lower Upper

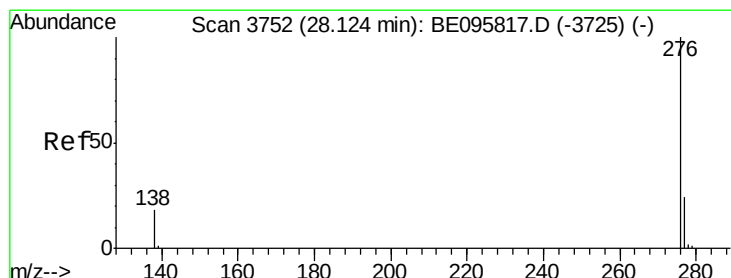
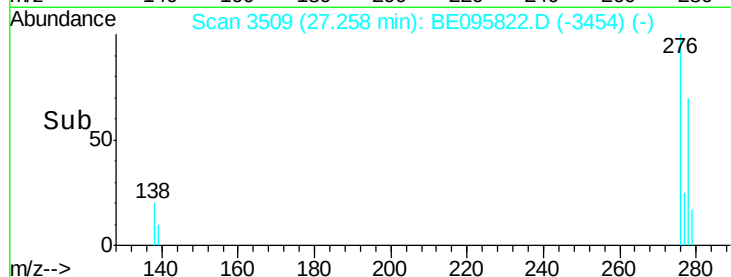
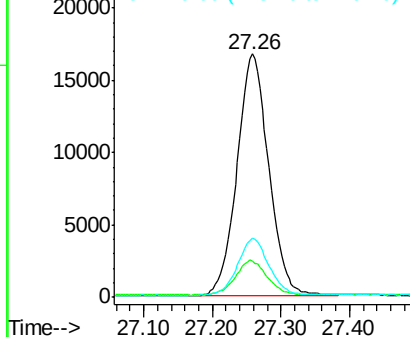
278 100

139 14.6 16.0 24.0#

279 24.5 20.0 30.0



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: 3.367 ng

RT: 28.12 min Scan# 3751

Delta R.T. -0.00 min

Lab File: BE095822.D

Acq: 23 Mar 2018 13:24

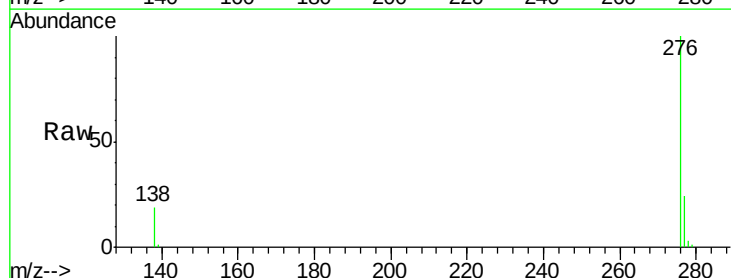
Tgt Ion:276 Resp: 67651

Ion Ratio Lower Upper

276 100

277 24.2 16.0 24.0#

138 18.6 20.0 30.0#



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

