

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE100318\
 Data File : BE097714.D
 Acq On : 3 Oct 2018 14:14
 Operator : SJ/JU
 Sample : J4870-21DL 2X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WPDL

Quant Time: Oct 03 15:12:44 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE100318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 03 12:17:19 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.91	152	5131	0.40	ng	0.01
7) Naphthalene-d8	10.70	136	20976	0.40	ng	0.01
13) Acenaphthene-d10	14.56	164	11466	0.40	ng	0.00
19) Phenanthrene-d10	17.30	188	30767	0.40	ng	0.00
27) Chrysene-d12	21.49	240	40715	0.40	ng	0.00
34) Perylene-d12	24.05	264	43080	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.48	112	2457	0.20	ng	0.01
5) Phenol-d6	7.06	99	3263	0.18	ng	0.01
8) Nitrobenzene-d5	9.07	82	1340	0.20	ng	0.03
11) 2-Methylnaphthalene-d10	12.31	152	5647	0.17	ng	0.01
14) 2,4,6-Tribromophenol	16.06	330	347	0.17	ng	0.01
15) 2-Fluorobiphenyl	13.19	172	9117	0.18	ng	0.00
25) Fluoranthene-d10	19.34	212	70695	0.18	ng	0.00
29) Terphenyl-d14	19.94	244	15758	0.19	ng	0.00

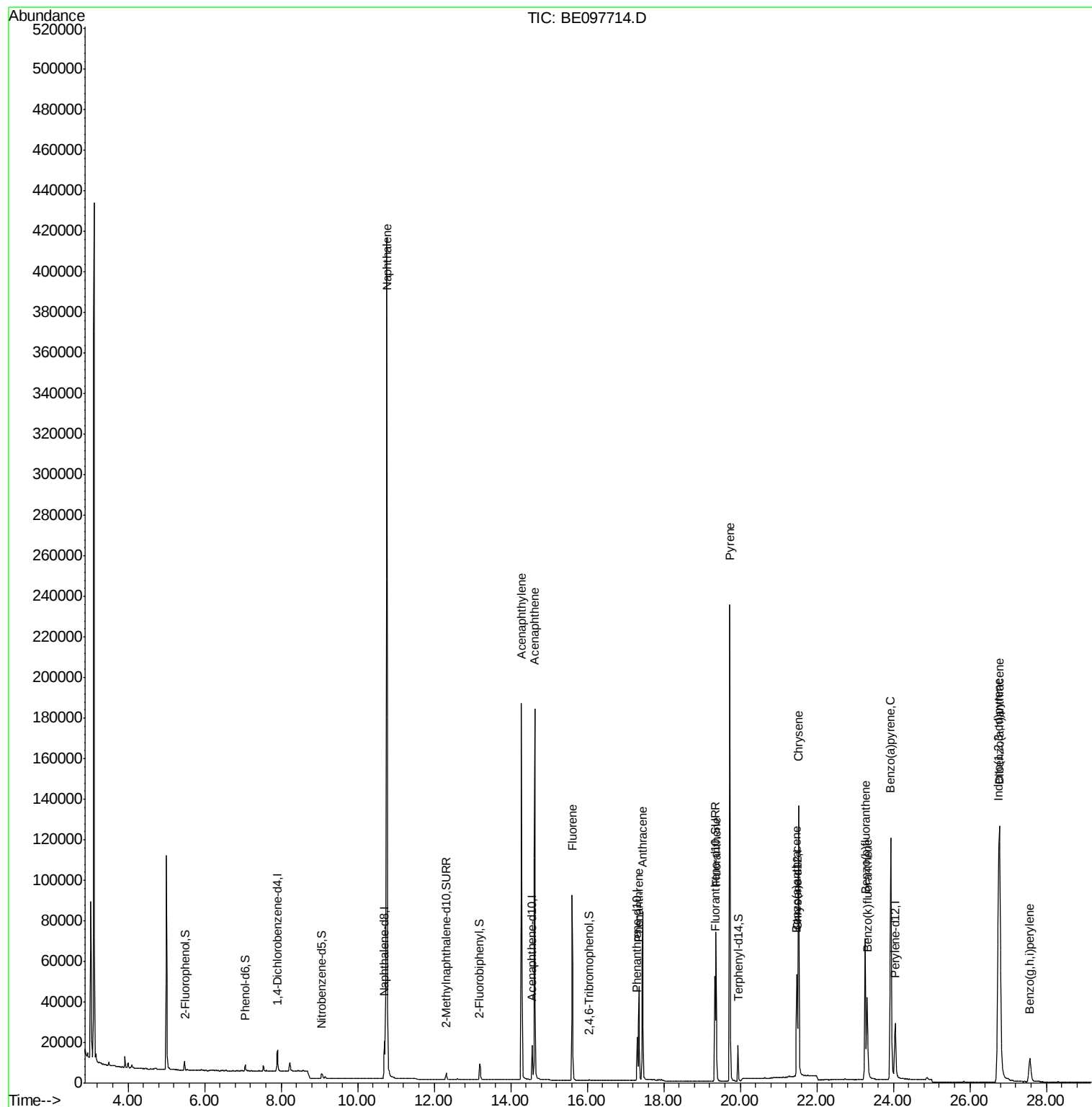
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Naphthalene	10.76	128	674652	3.191	ng	100
16) Acenaphthylene	14.28	152	204770	4.033	ng	99
17) Acenaphthene	14.63	154	95106	2.924	ng	97
18) Fluorene	15.60	166	66011	1.528	ng	99
23) Phenanthrene	17.35	178	47369	0.597	ng	99
24) Anthracene	17.44	178	93467	1.366	ng	99
26) Fluoranthene	19.37	202	67161	0.665	ng	99
28) Pyrene	19.73	202	217404	2.101	ng	100
30) Benzo(a)anthracene	21.48	228	34583	0.316	ng	98
31) Chrysene	21.52	228	127686	1.043	ng	99
33) Indeno(1,2,3-cd)pyrene	26.75	276	230855	2.172	ng	98
35) Benzo(b)fluoranthene	23.26	252	103469	0.875	ng	99
36) Benzo(k)fluoranthene	23.32	252	67107	0.512	ng	98
37) Benzo(a)pyrene	23.93	252	203298	1.899	ng	99
38) Dibenzo(a,h)anthracene	26.78	278	201127	1.908	ng	98
39) Benzo(g,h,i)perylene	27.57	276	32651	0.296	ng	99

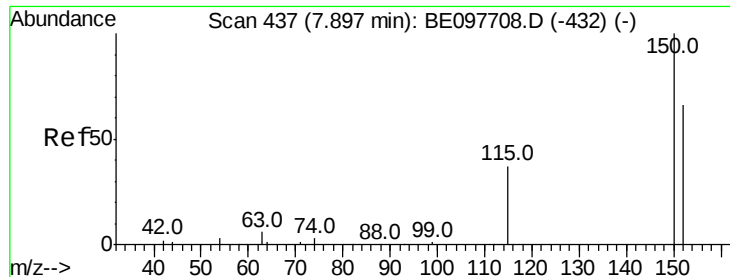
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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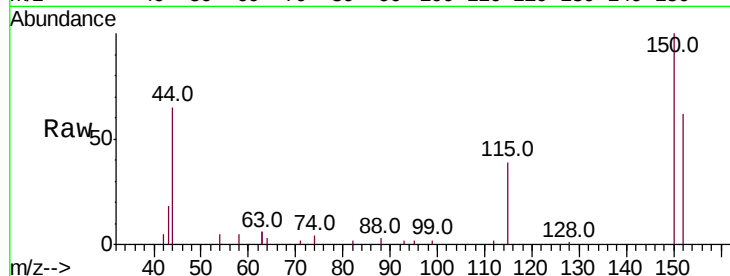


#1

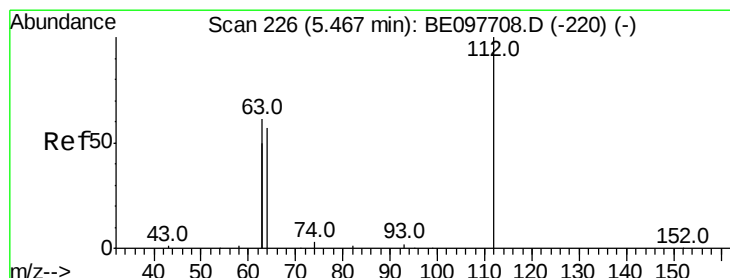
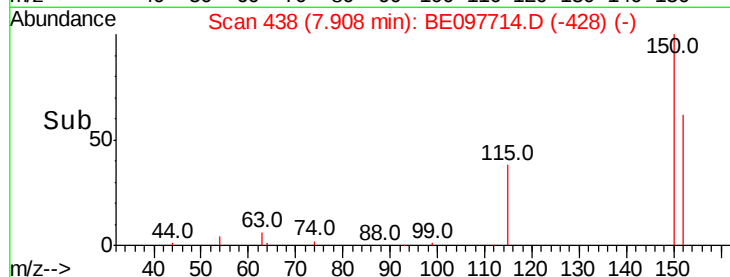
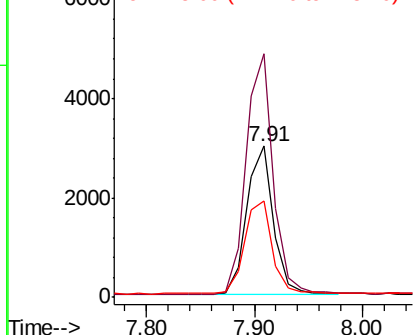
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.91 min Scan# 438
Delta R.T. 0.01 min
Lab File: BE097714.D
Acq: 3 Oct 2018 14:14

Instrument :
BNA_E
ClientSampleId :
RR-PAH-WPDL

Tot Ion:152 Resp: 5131
Ion Ratio Lower Upper
152 100
150 161.3 120.9 181.3
115 63.6 46.6 69.8



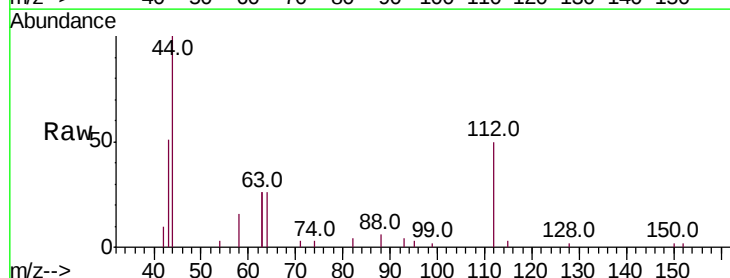
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



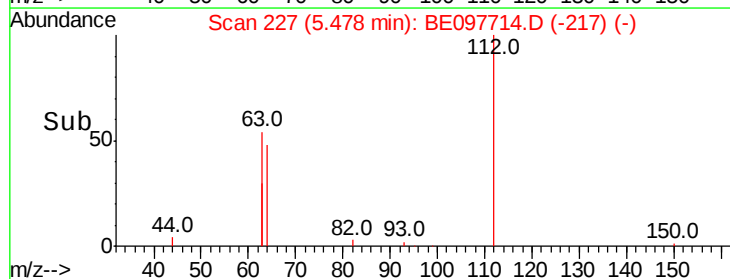
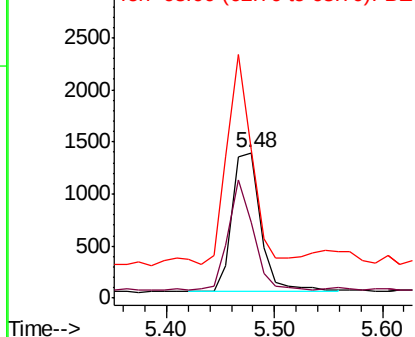
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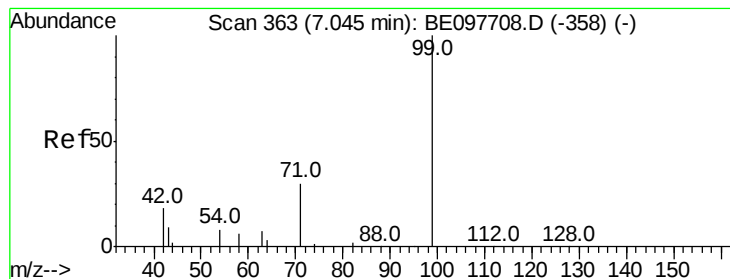
2-Fluorophenol
Concen: 0.202 ng
RT: 5.48 min Scan# 227
Delta R.T. 0.01 min
Lab File: BE097714.D
Acq: 3 Oct 2018 14:14

Tgt Ion:112 Resp: 2457
Ion Ratio Lower Upper
112 100
64 69.2 56.6 84.8
63 129.4 119.4 179.0



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: 0.175 ng

RT: 7.06 min Scan# 364

Delta R.T. 0.01 min

Lab File: BE097714.D

Acq: 3 Oct 2018 14:14

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

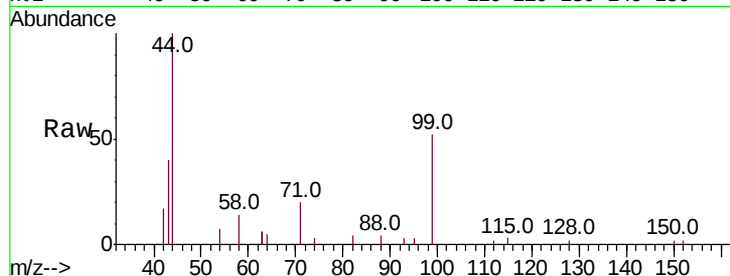
Tot Ion: 99 Resp: 3263

Ion Ratio Lower Upper

99 100

42 28.5 19.9 29.9

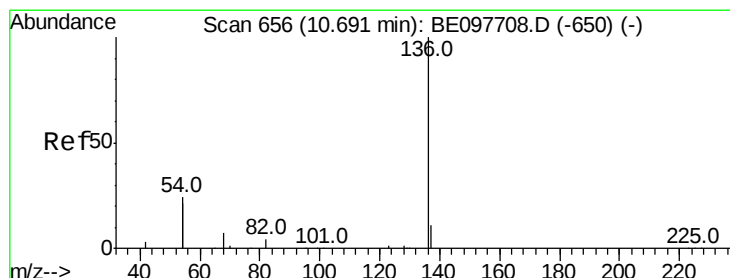
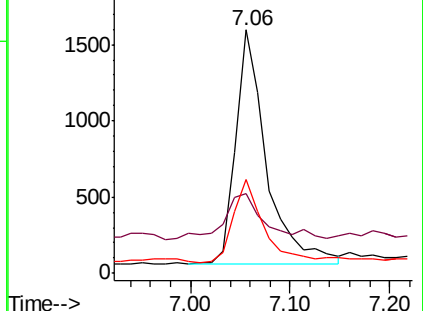
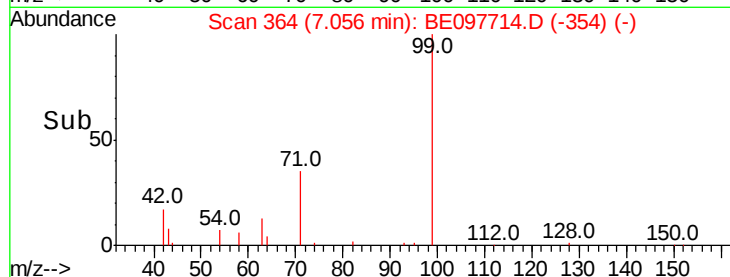
71 38.4 25.4 38.2#



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: 10.70 min Scan# 657

Delta R.T. 0.01 min

Lab File: BE097714.D

Acq: 3 Oct 2018 14:14

Tgt Ion: 136 Resp: 20976

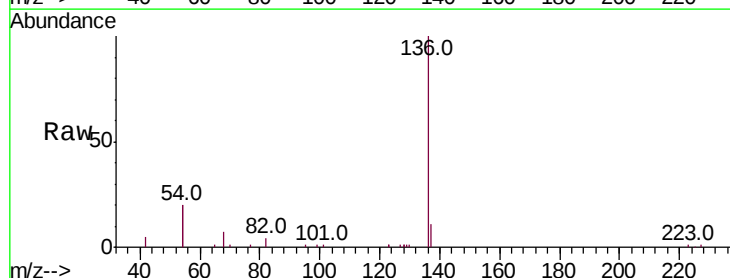
Ion Ratio Lower Upper

136 100

137 10.9 9.0 13.4

54 40.1 37.8 56.6

68 7.4 6.4 9.6

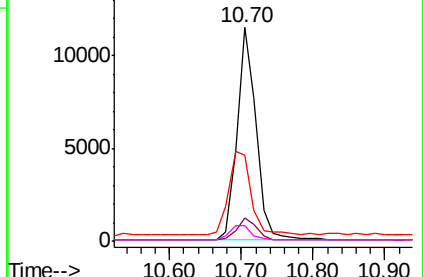
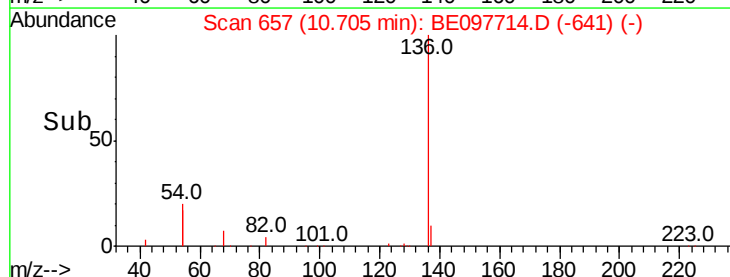


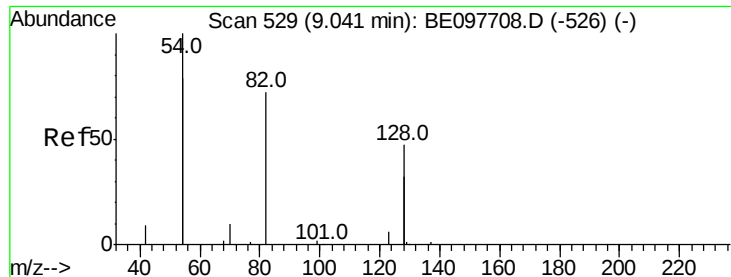
Abundance Ion 136.00 (135.70 to 136.70): E

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

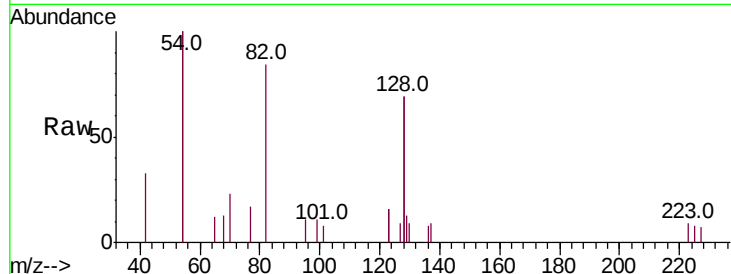




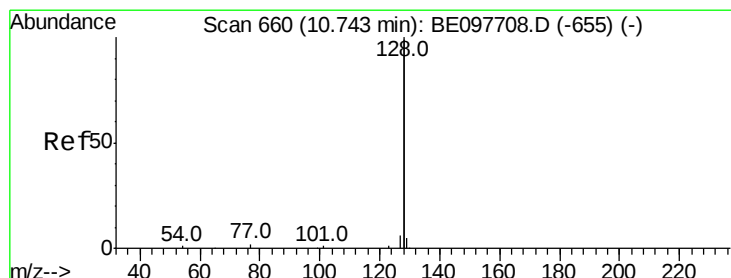
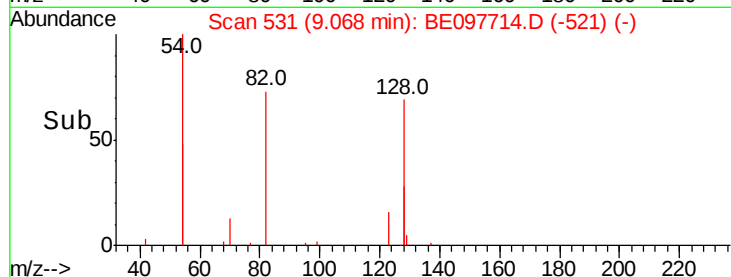
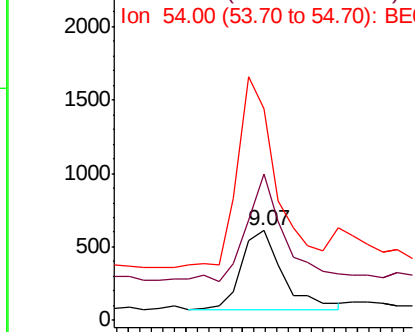
#8
 Nitrobenzene-d5
 Concen: 0.197 ng
 RT: 9.07 min Scan# 531
 Delta R.T. 0.03 min
 Lab File: BE097714.D
 Acq: 3 Oct 2018 14:14

Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WPDL

Tot Ion: 82 Resp: 1340
 Ion Ratio Lower Upper
 82 100
 128 163.3 97.0 145.4#
 54 236.7 206.9 310.3

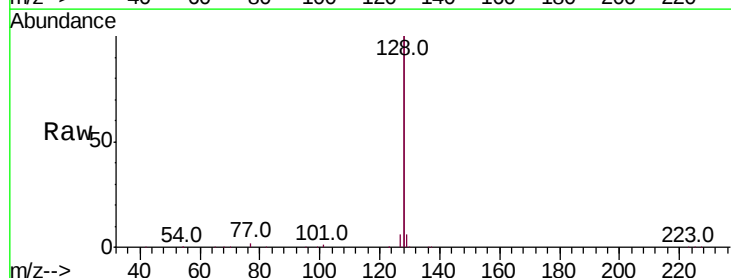


Abundance Ion 82.00 (81.70 to 82.70): BE0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BE0

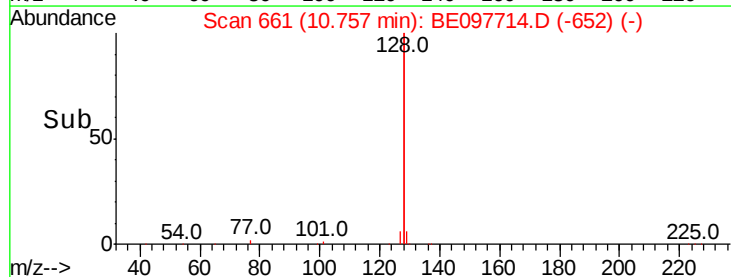
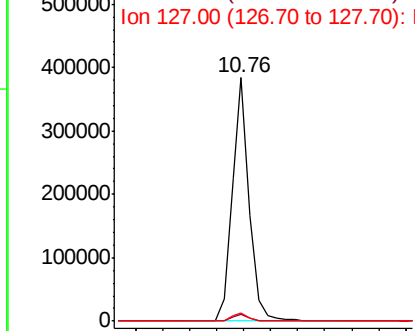


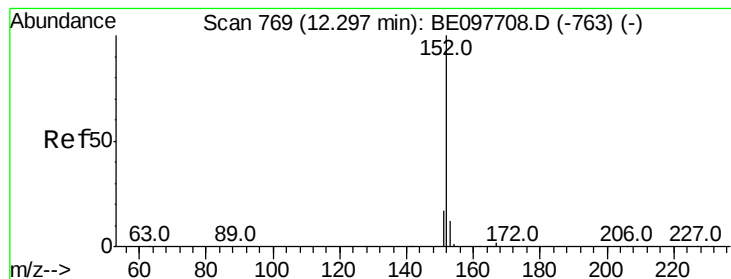
#9
 Naphthalene
 Concen: 3.191 ng
 RT: 10.76 min Scan# 661
 Delta R.T. 0.01 min
 Lab File: BE097714.D
 Acq: 3 Oct 2018 14:14

Tgt Ion:128 Resp: 674652
 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

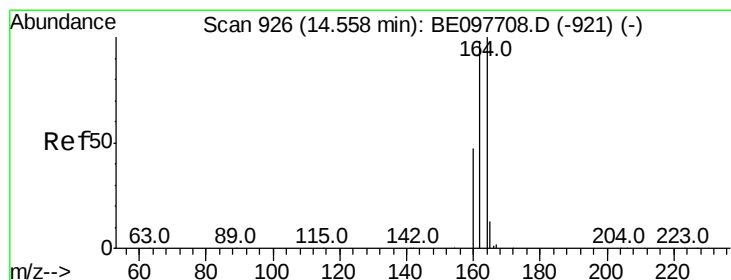
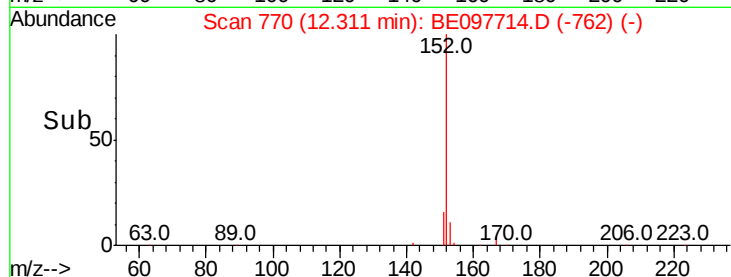
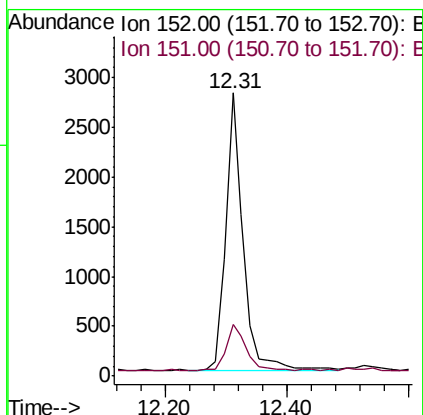
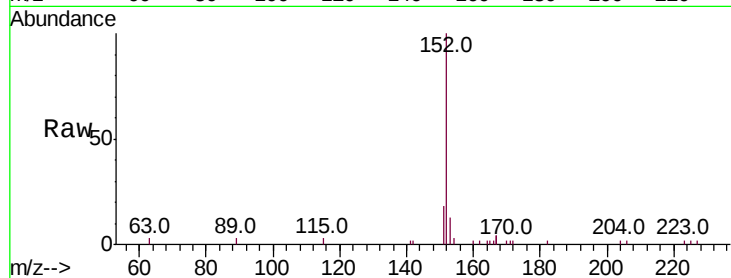




#11
 2-Methylnaphthalene-d10
 Concen: 0.169 ng
 RT: 12.31 min Scan# 770
 Delta R.T. 0.01 min
 Lab File: BE097714.D
 Acq: 3 Oct 2018 14:14

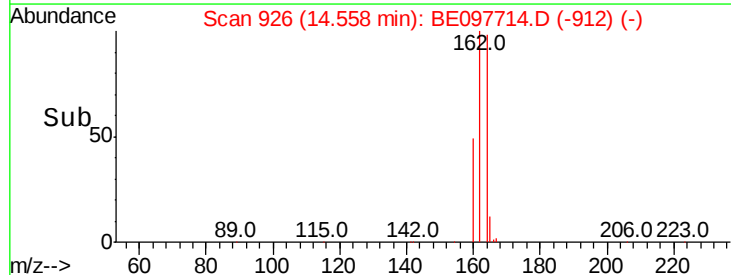
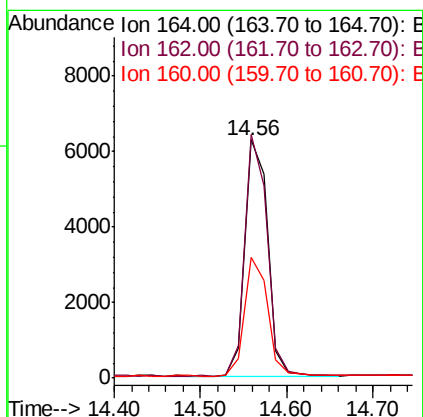
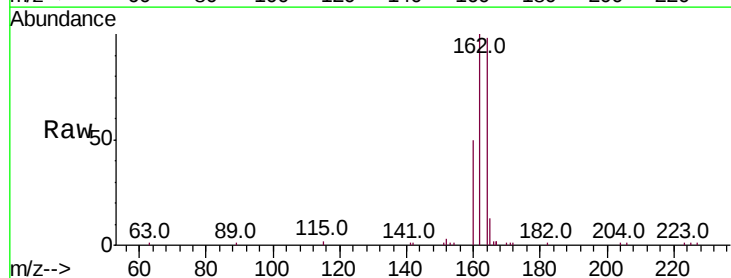
Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WPDL

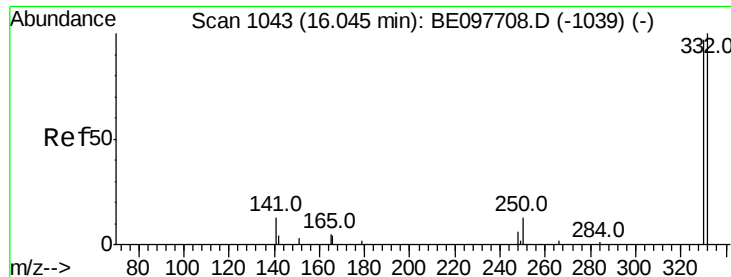
Tot Ion:152 Resp: 5647
 Ion Ratio Lower Upper
 152 100
 151 18.9 15.4 23.2



#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.56 min Scan# 926
 Delta R.T. 0.00 min
 Lab File: BE097714.D
 Acq: 3 Oct 2018 14:14

Tgt Ion:164 Resp: 11466
 Ion Ratio Lower Upper
 164 100
 162 102.3 78.6 117.8
 160 51.0 37.8 56.6

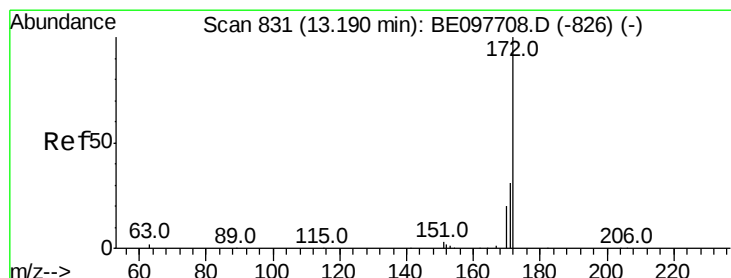
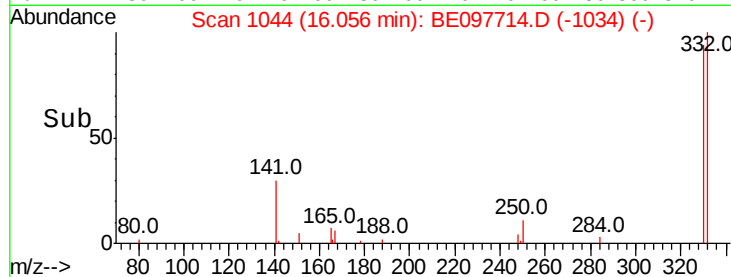
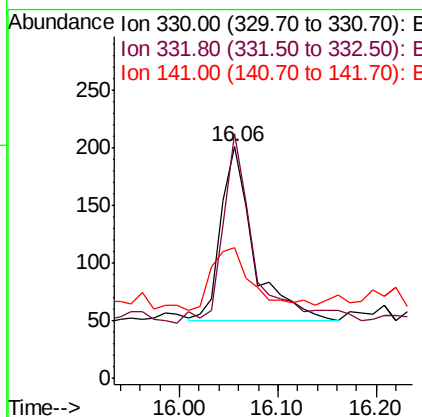
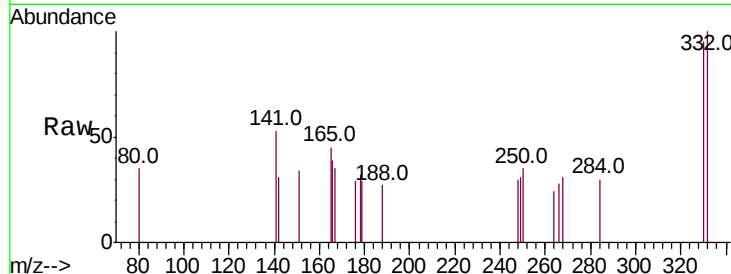




#14
 2,4,6-Tribromophenol
 Concen: 0.167 ng
 RT: 16.06 min Scan# 1044
 Delta R.T. 0.01 min
 Lab File: BE097714.D
 Acq: 3 Oct 2018 14:14

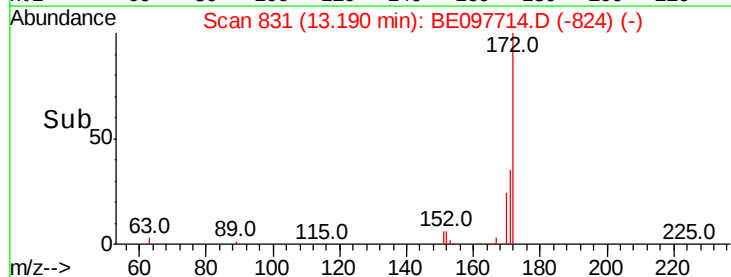
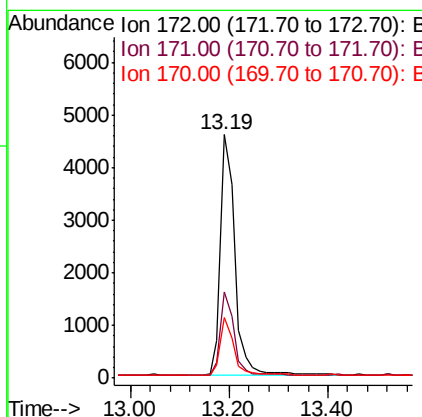
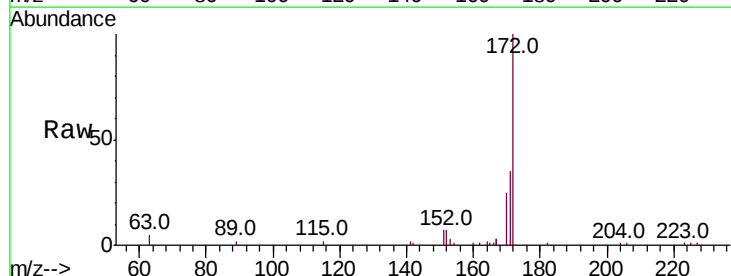
Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WPDL

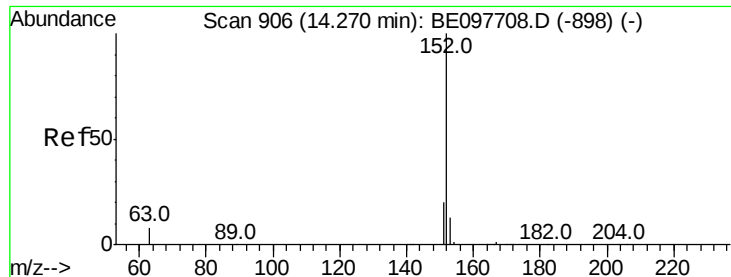
Tot Ion:330 Resp: 347
 Ion Ratio Lower Upper
 330 100
 332 106.3 83.5 125.3
 141 45.8 34.9 52.3



#15
 2-Fluorobiphenyl
 Concen: 0.181 ng
 RT: 13.19 min Scan# 831
 Delta R.T. 0.00 min
 Lab File: BE097714.D
 Acq: 3 Oct 2018 14:14

Tgt Ion:172 Resp: 9117
 Ion Ratio Lower Upper
 172 100
 171 35.4 25.2 37.8
 170 25.1 16.2 24.2#





#16

Acenaphthylene

Concen: 4.033 ng

RT: 14.28 min Scan# 907

Delta R.T. 0.01 min

Lab File: BE097714.D

Acq: 3 Oct 2018 14:14

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

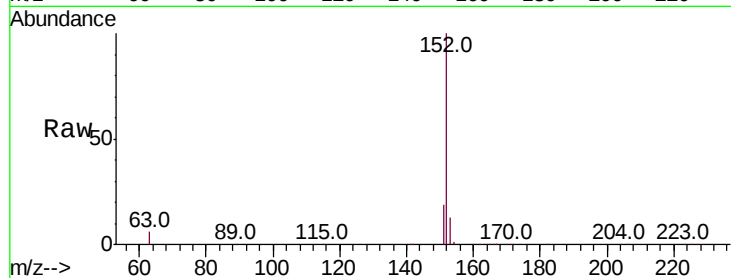
Tot Ion:152 Resp: 204770

Ion Ratio Lower Upper

152 100

151 19.8 15.3 22.9

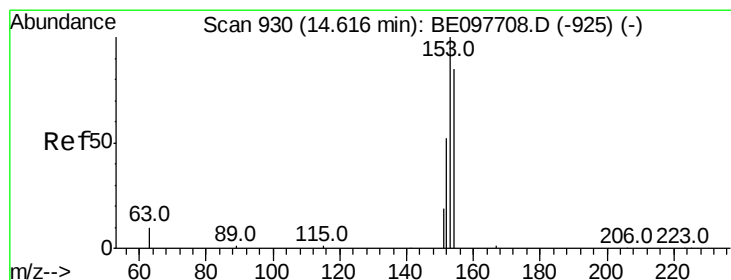
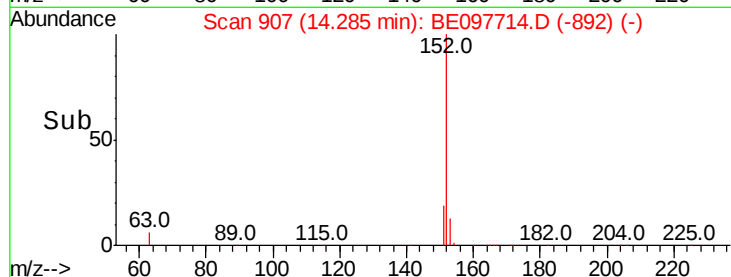
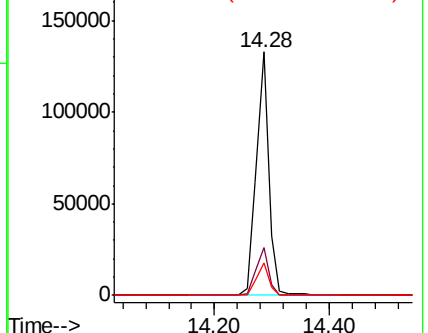
153 13.1 10.8 16.2



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: 2.924 ng

RT: 14.63 min Scan# 931

Delta R.T. 0.01 min

Lab File: BE097714.D

Acq: 3 Oct 2018 14:14

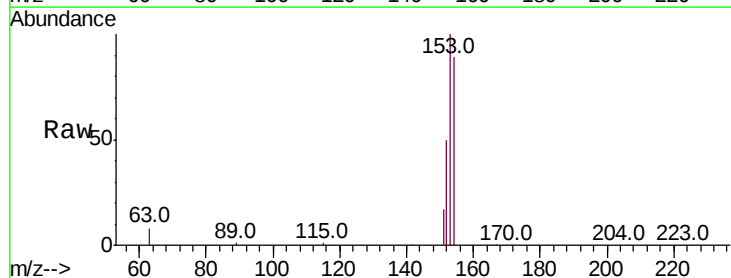
Tgt Ion:154 Resp: 95106

Ion Ratio Lower Upper

154 100

153 113.9 93.3 139.9

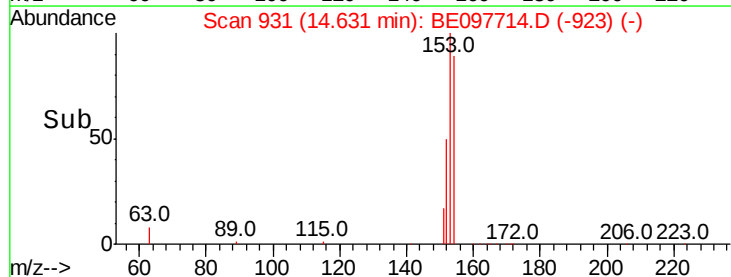
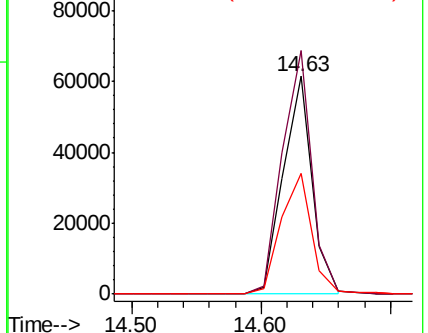
152 58.5 48.9 73.3

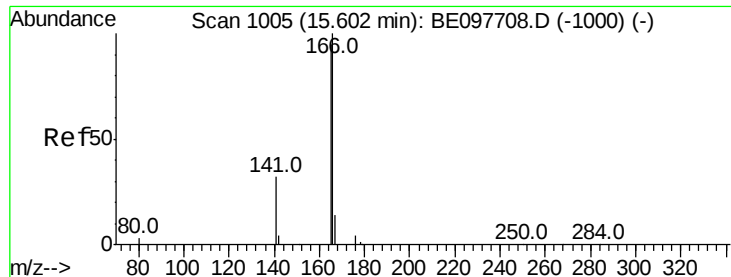


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#18

Fluorene

Concen: 1.528 ng

RT: 15.60 min Scan# 1005

Delta R.T. -0.00 min

Lab File: BE097714.D

Acq: 3 Oct 2018 14:14

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

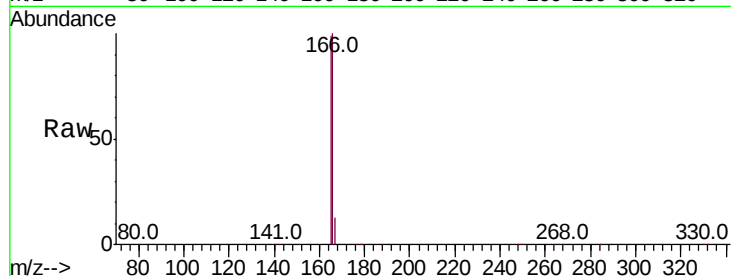
Tot Ion:166 Resp: 66011

Ion Ratio Lower Upper

166 100

165 97.9 79.0 118.4

167 13.2 11.1 16.7

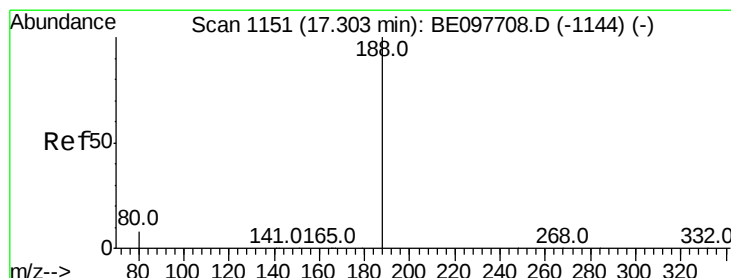
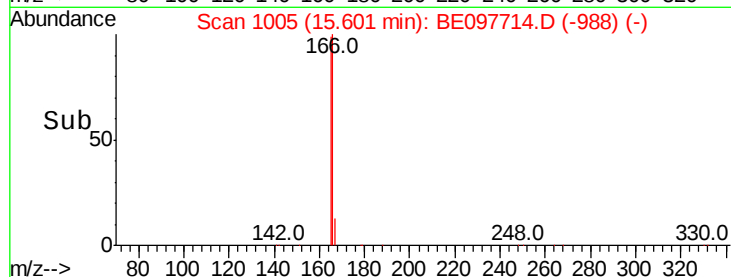
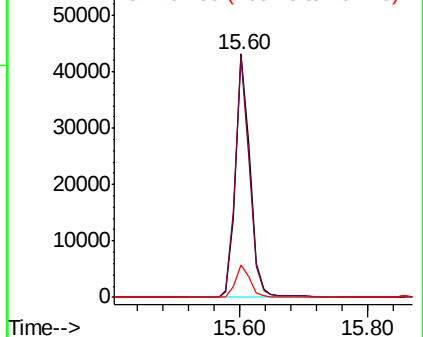


Abundance

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: BE097714.D

Acq: 3 Oct 2018 14:14

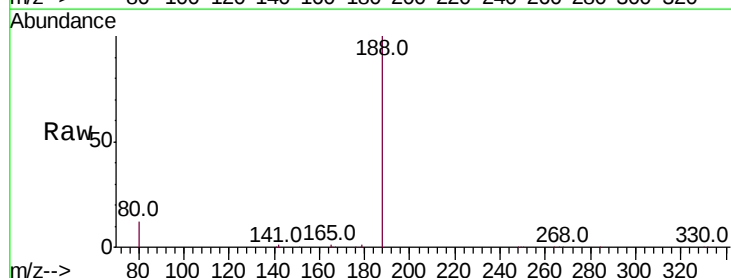
Tgt Ion:188 Resp: 30767

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.5 6.6 9.8#

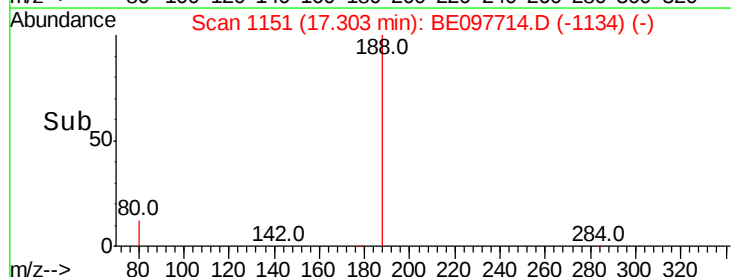
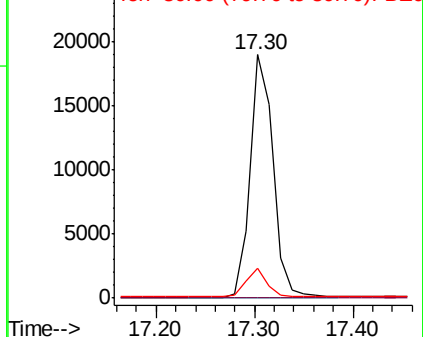


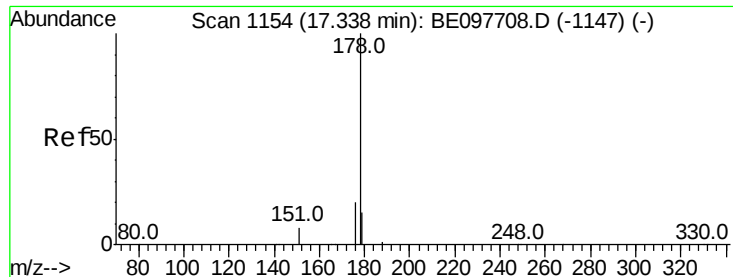
Abundance

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: 0.597 ng

RT: 17.35 min Scan# 1155

Delta R.T. 0.01 min

Lab File: BE097714.D

Acq: 3 Oct 2018 14:14

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

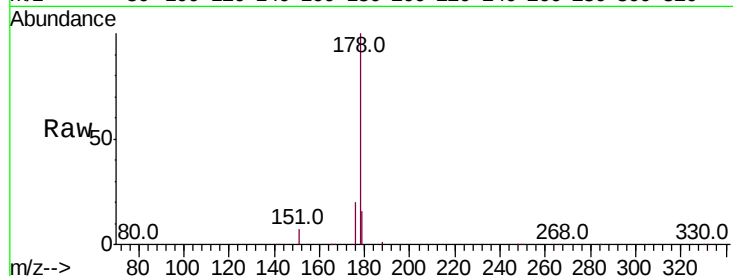
Tot Ion:178 Resp: 47369

Ion Ratio Lower Upper

178 100

176 19.5 15.4 23.2

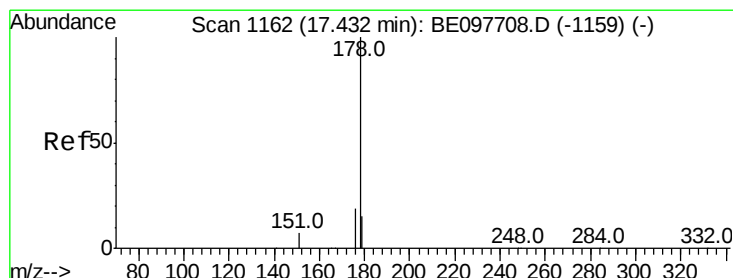
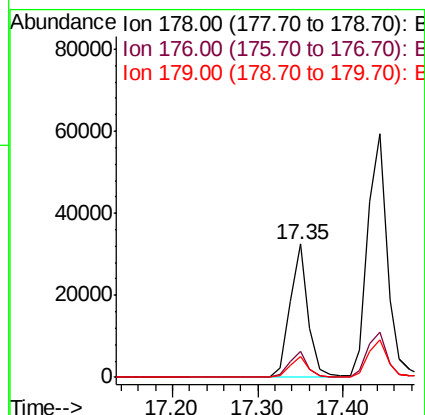
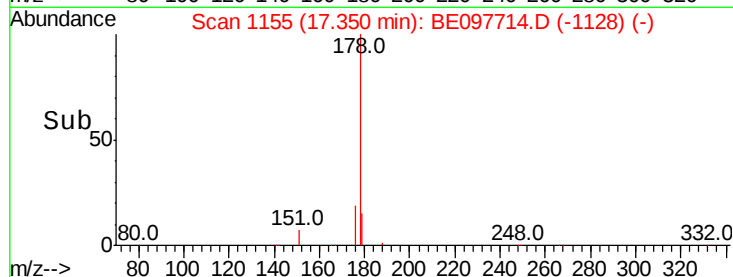
179 15.6 12.2 18.4



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#24

Anthracene

Concen: 1.366 ng

RT: 17.44 min Scan# 1163

Delta R.T. 0.01 min

Lab File: BE097714.D

Acq: 3 Oct 2018 14:14

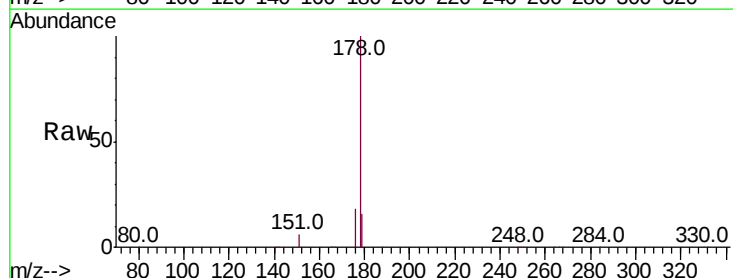
Tgt Ion:178 Resp: 93467

Ion Ratio Lower Upper

178 100

176 18.5 15.1 22.7

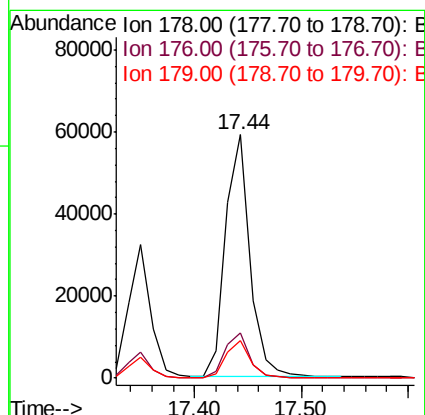
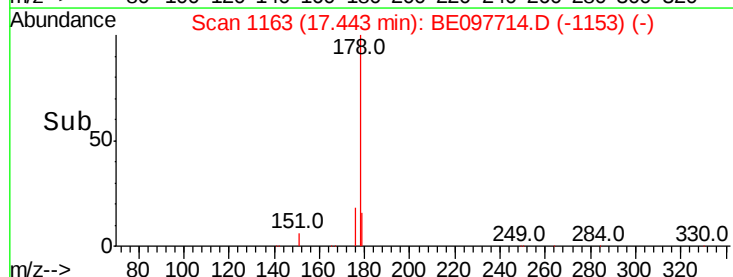
179 15.2 12.2 18.2

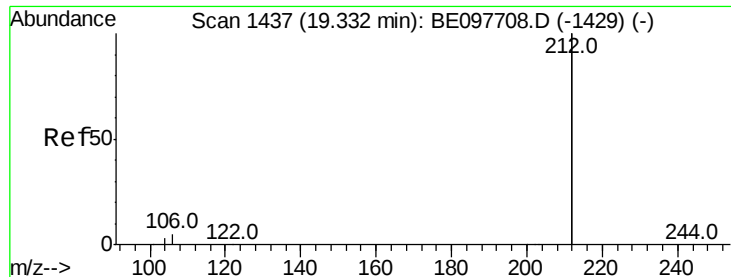


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.182 ng

RT: 19.34 min Scan# 1438

Delta R.T. 0.01 min

Lab File: BE097714.D

Acq: 3 Oct 2018 14:14

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

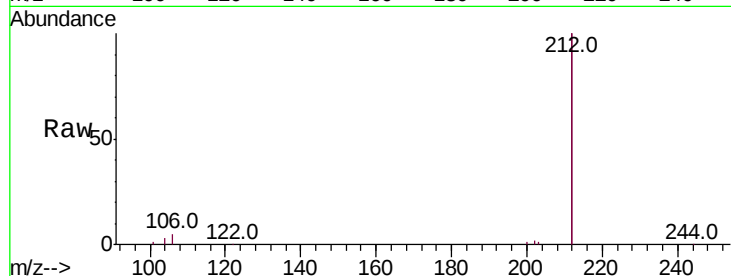
Tot Ion:212 Resp: 70695

Ion Ratio Lower Upper

212 100

106 2.8 2.2 3.2

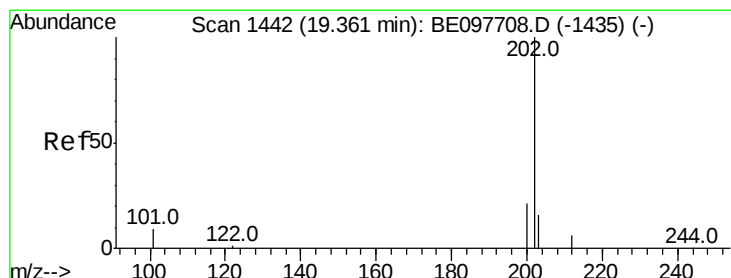
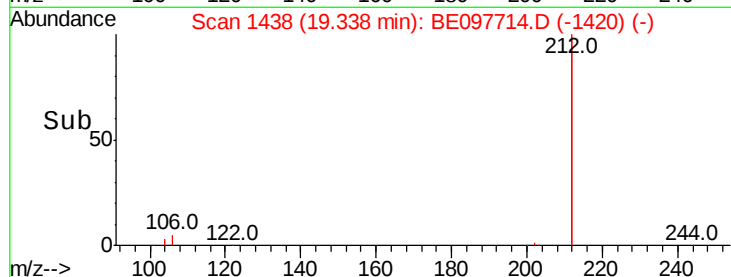
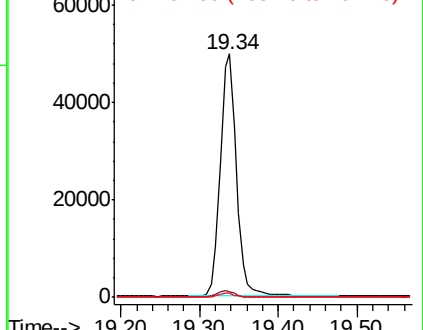
104 1.6 1.2 1.8



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: 0.665 ng

RT: 19.37 min Scan# 1443

Delta R.T. 0.01 min

Lab File: BE097714.D

Acq: 3 Oct 2018 14:14

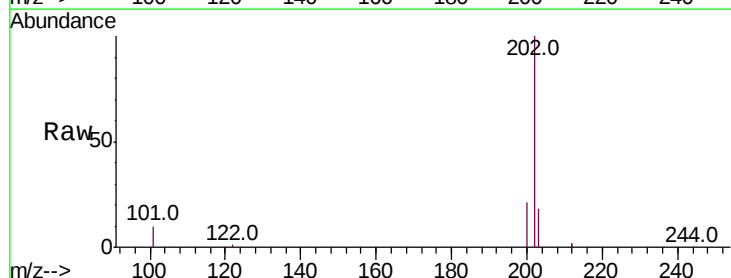
Tgt Ion:202 Resp: 67161

Ion Ratio Lower Upper

202 100

101 10.3 7.8 11.8

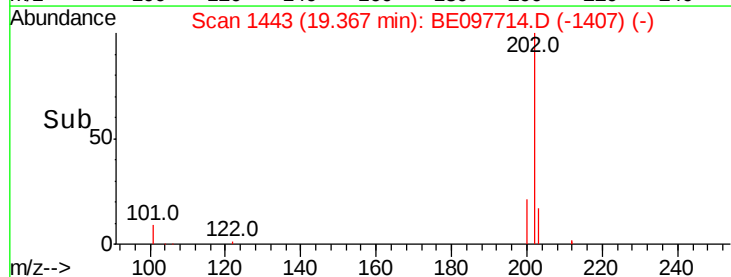
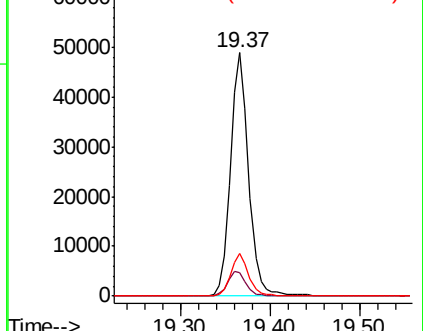
203 16.9 13.8 20.6

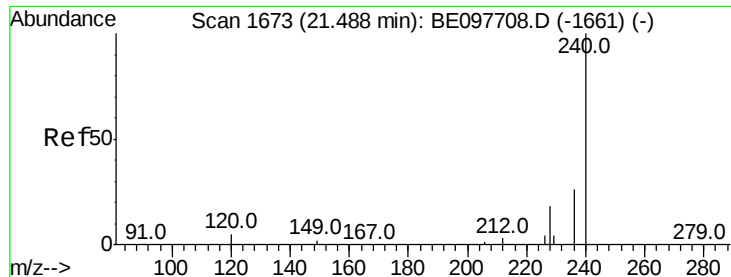


Abundance Ion 202.00 (201.70 to 202.70): E

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: BE097714.D

Acq: 3 Oct 2018 14:14

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

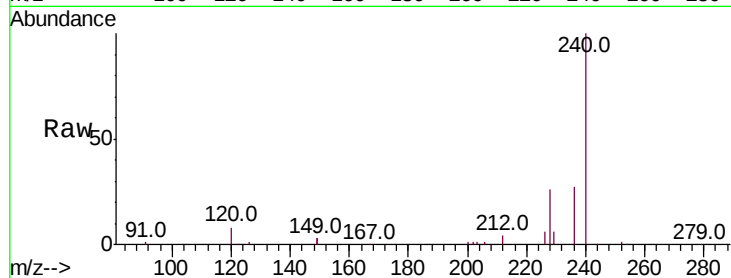
Tot Ion:240 Resp: 40715

Ion Ratio Lower Upper

240 100

120 7.7 4.7 7.1#

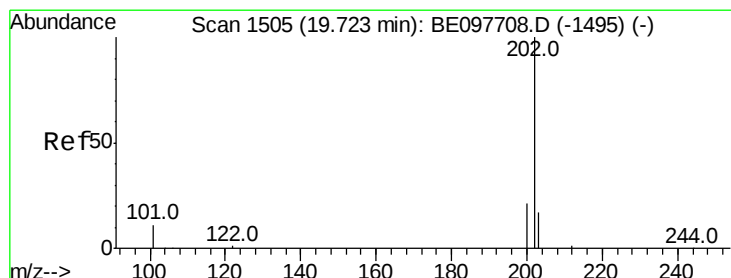
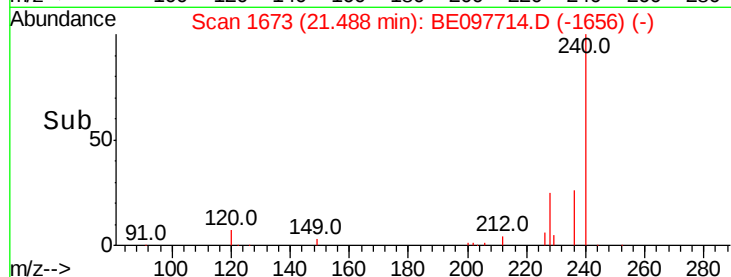
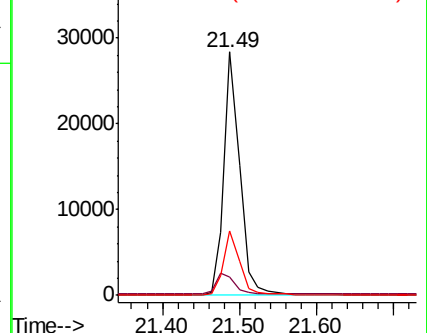
236 26.6 20.8 31.2



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: 2.101 ng

RT: 19.73 min Scan# 1506

Delta R.T. 0.01 min

Lab File: BE097714.D

Acq: 3 Oct 2018 14:14

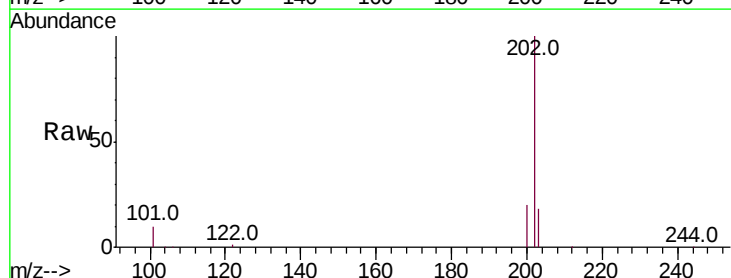
Tgt Ion:202 Resp: 217404

Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

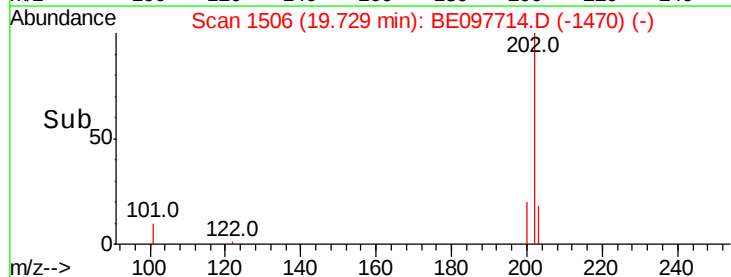
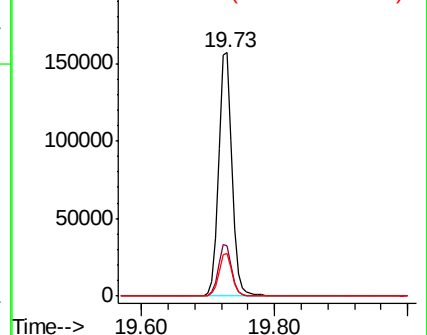
203 17.3 13.9 20.9

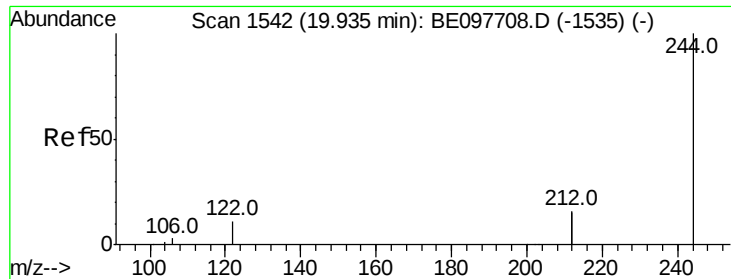


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.190 ng

RT: 19.94 min Scan# 1543

Delta R.T. 0.01 min

Lab File: BE097714.D

Acq: 3 Oct 2018 14:14

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

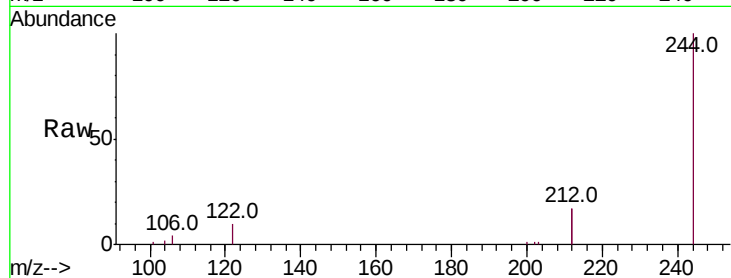
Tot Ion:244 Resp: 15758

Ion Ratio Lower Upper

244 100

212 33.1 25.8 38.8

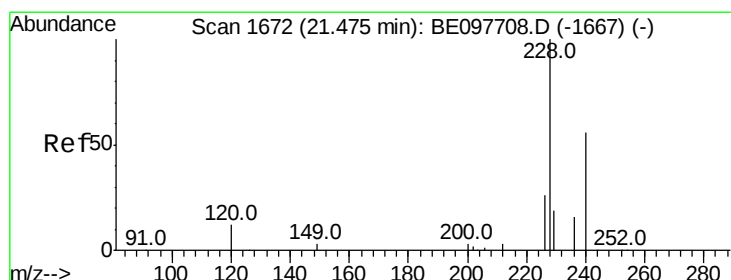
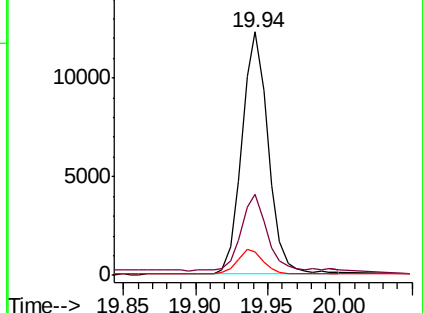
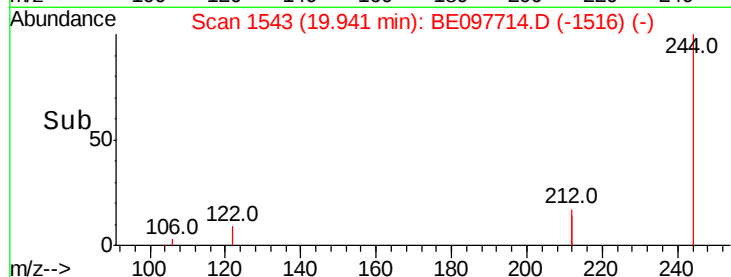
122 9.8 8.7 13.1



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: 0.316 ng

RT: 21.48 min Scan# 1672

Delta R.T. 0.00 min

Lab File: BE097714.D

Acq: 3 Oct 2018 14:14

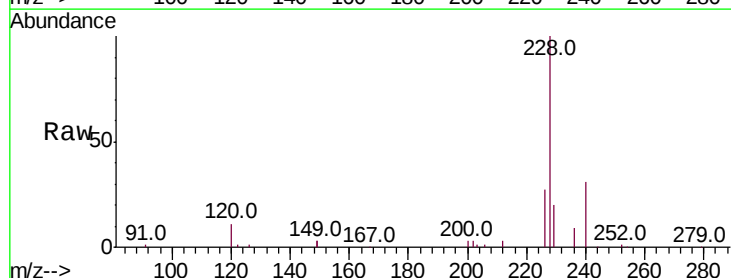
Tgt Ion:228 Resp: 34583

Ion Ratio Lower Upper

228 100

226 26.9 20.7 31.1

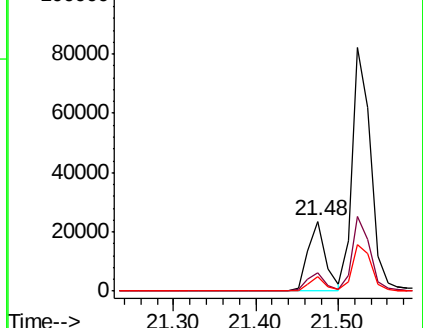
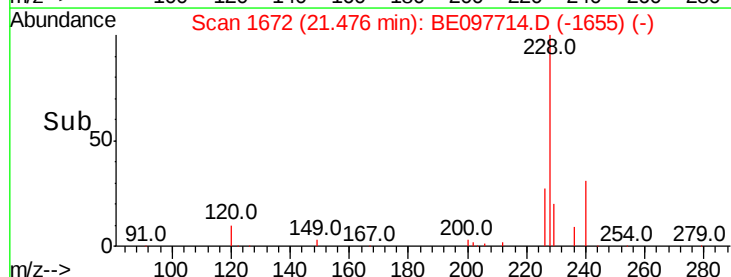
229 20.2 15.7 23.5

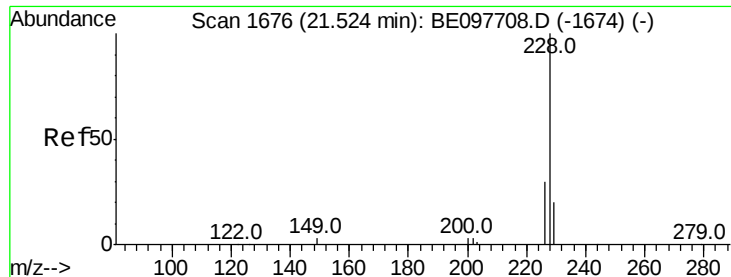


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 1.043 ng

RT: 21.52 min Scan# 1676

Delta R.T. 0.00 min

Lab File: BE097714.D

Acq: 3 Oct 2018 14:14

Instrument :

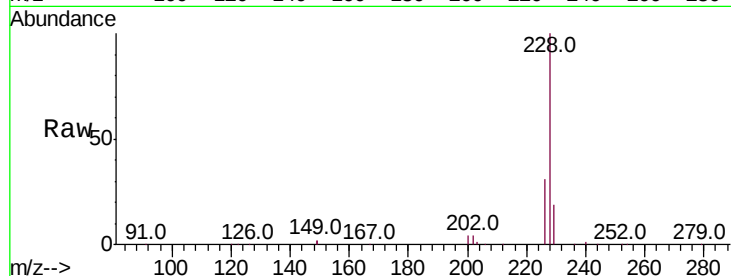
BNA_E

ClientSampleId :

RR-PAH-WPDL

Tot Ion:228 Resp: 127686

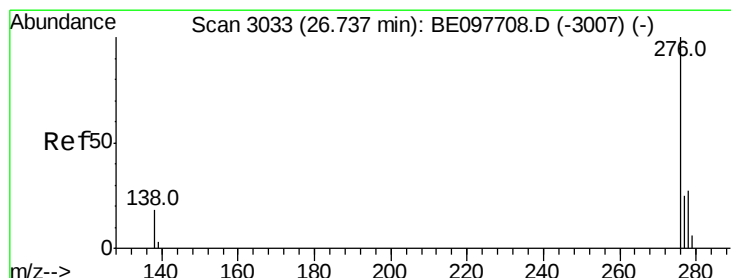
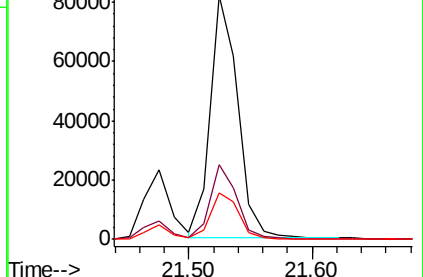
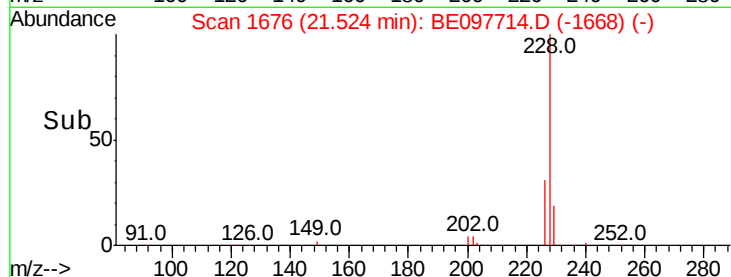
Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.3	36.5
229	19.3	16.0	24.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#33

Indeno(1,2,3-cd)pyrene

Concen: 2.172 ng

RT: 26.75 min Scan# 3036

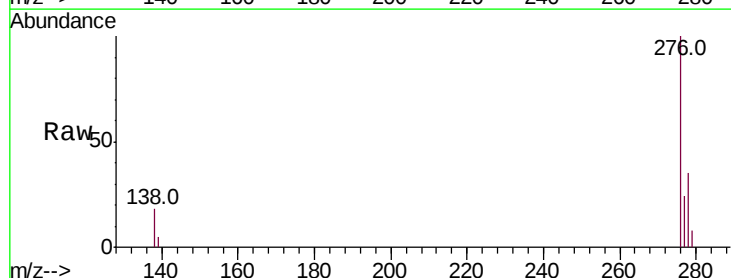
Delta R.T. 0.01 min

Lab File: BE097714.D

Acq: 3 Oct 2018 14:14

Tgt Ion:276 Resp: 230855

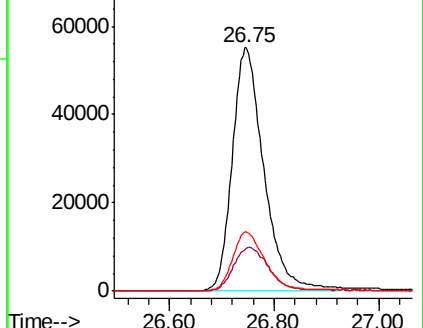
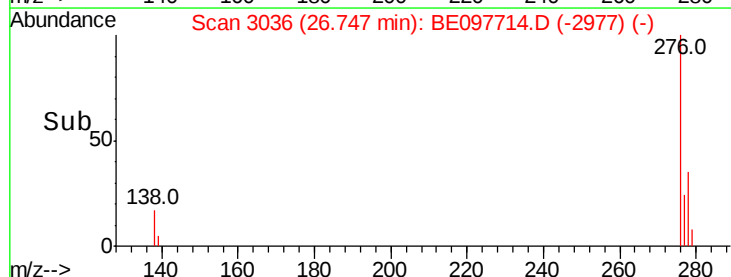
Ion	Ratio	Lower	Upper
276	100		
138	19.8	15.0	22.6
277	24.9	19.2	28.8

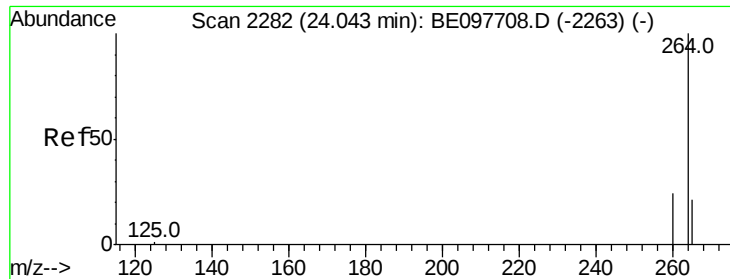


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

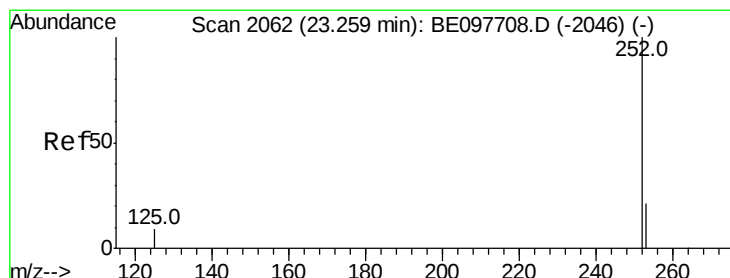
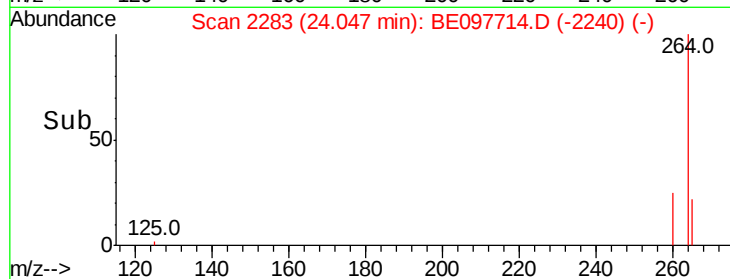
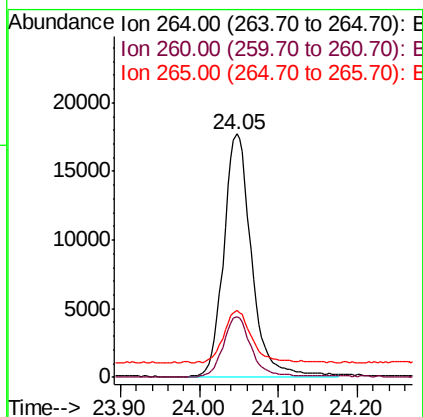
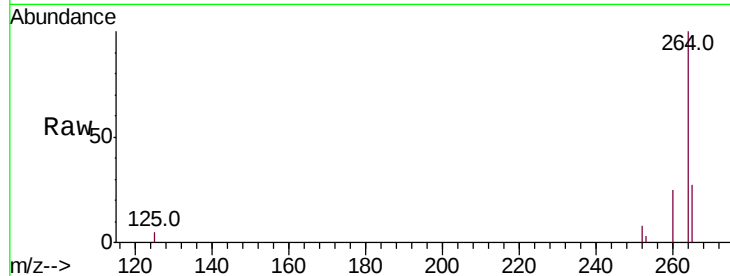




#34
Pervlene-d12
Concen: 0.400 ng
RT: 24.05 min Scan# 2283
Delta R.T. 0.00 min
Lab File: BE097714.D
Acq: 3 Oct 2018 14:14

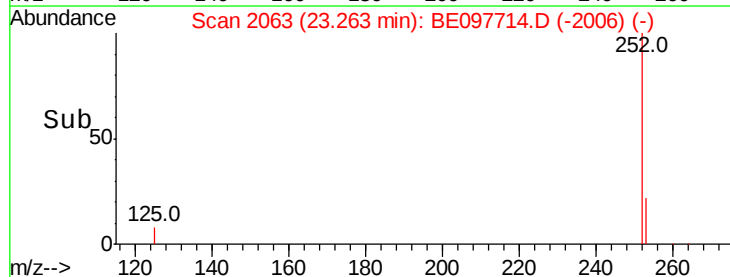
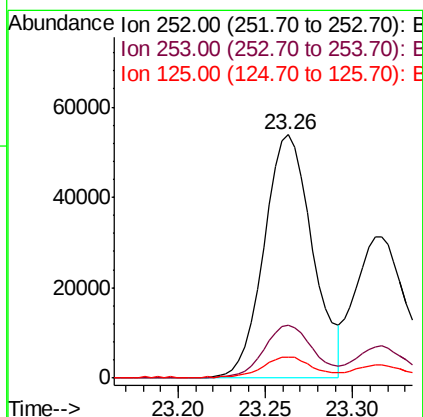
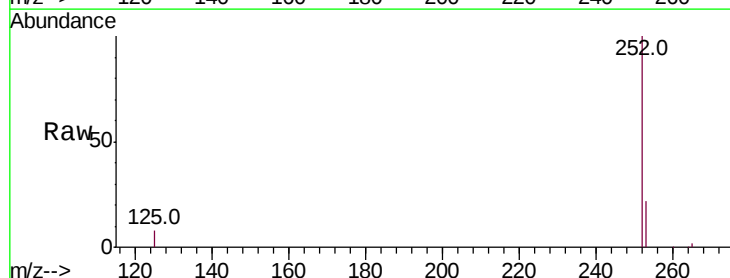
Instrument :
BNA_E
ClientSampleId :
RR-PAH-WPDL

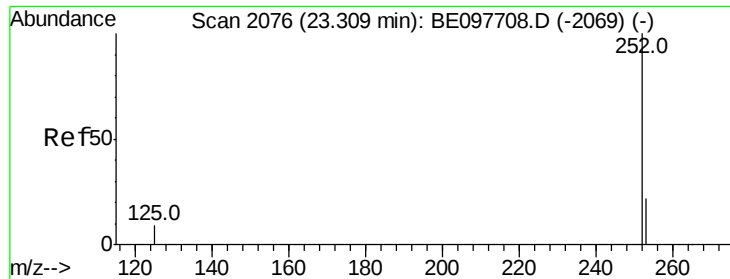
Tot Ion:264 Resp: 43080
Ion Ratio Lower Upper
264 100
260 24.9 19.1 28.7
265 27.4 21.9 32.9



#35
Benzo(b)fluoranthene
Concen: 0.875 ng
RT: 23.26 min Scan# 2063
Delta R.T. 0.00 min
Lab File: BE097714.D
Acq: 3 Oct 2018 14:14

Tgt Ion:252 Resp: 103469
Ion Ratio Lower Upper
252 100
253 21.7 17.5 26.3
125 8.4 7.8 11.8

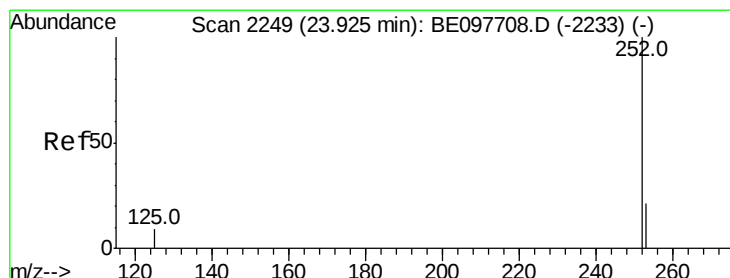
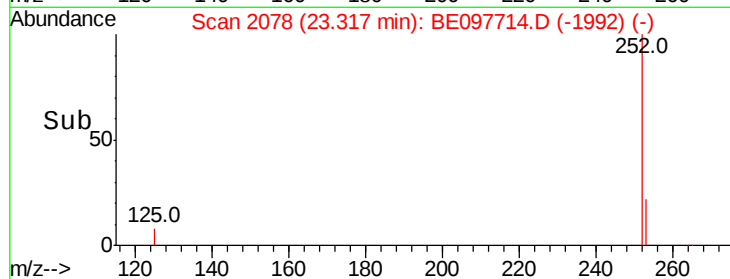
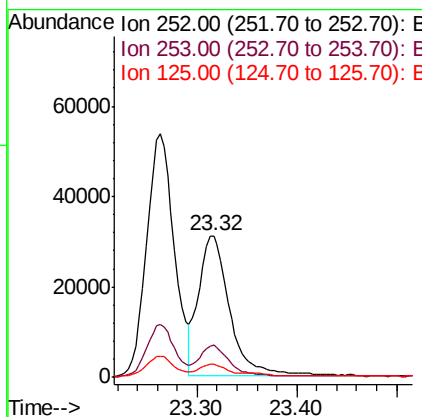
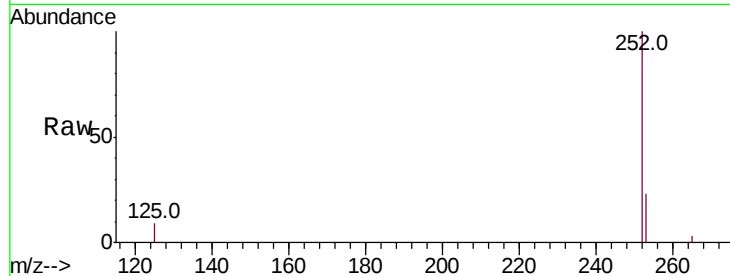




#36
Benzo(k)fluoranthene
Concen: 0.512 ng
RT: 23.32 min Scan# 2078
Delta R.T. 0.01 min
Lab File: BE097714.D
Acq: 3 Oct 2018 14:14

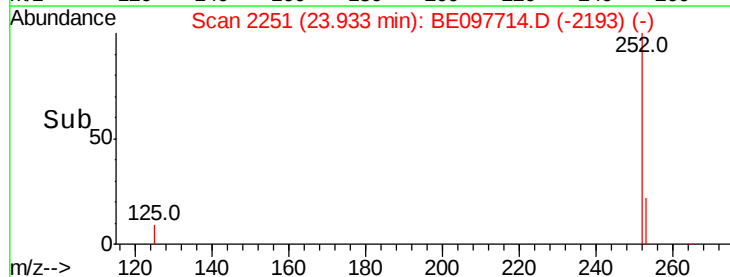
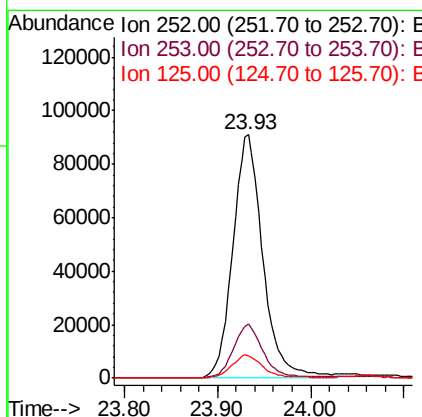
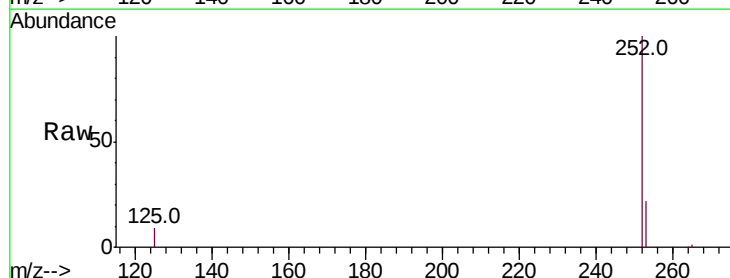
Instrument :
BNA_E
ClientSampleId :
RR-PAH-WPDL

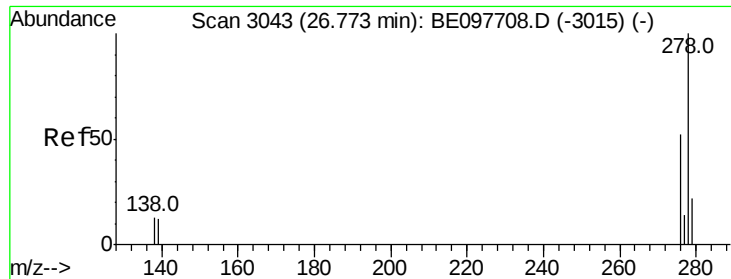
Tot Ion:252 Resp: 67107
Ion Ratio Lower Upper
252 100
253 22.8 17.5 26.3
125 9.0 7.5 11.3



#37
Benzo(a)pyrene
Concen: 1.899 ng
RT: 23.93 min Scan# 2251
Delta R.T. 0.01 min
Lab File: BE097714.D
Acq: 3 Oct 2018 14:14

Tgt Ion:252 Resp: 203298
Ion Ratio Lower Upper
252 100
253 22.3 17.7 26.5
125 9.3 8.3 12.5





#38

Dibenzo(a,h)anthracene

Concen: 1.908 ng

RT: 26.78 min Scan# 3045

Delta R.T. 0.01 min

Lab File: BE097714.D

Acq: 3 Oct 2018 14:14

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

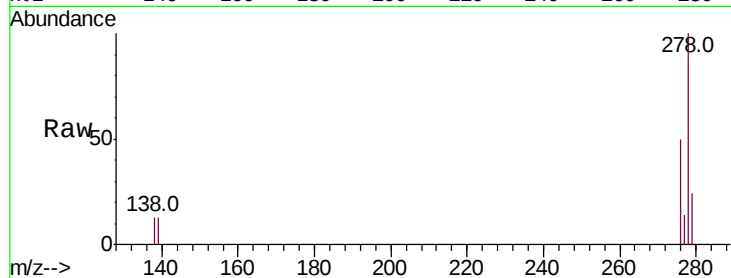
Tot Ion:278 Resp: 201127

Ion Ratio Lower Upper

278 100

139 12.5 10.3 15.5

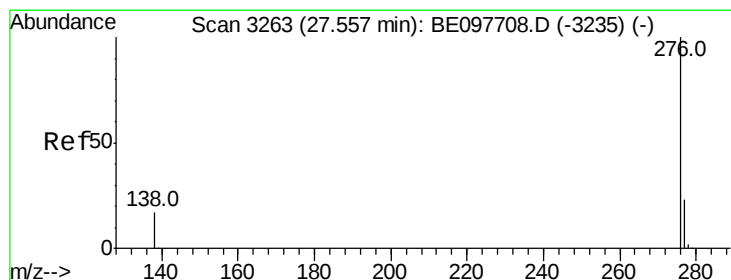
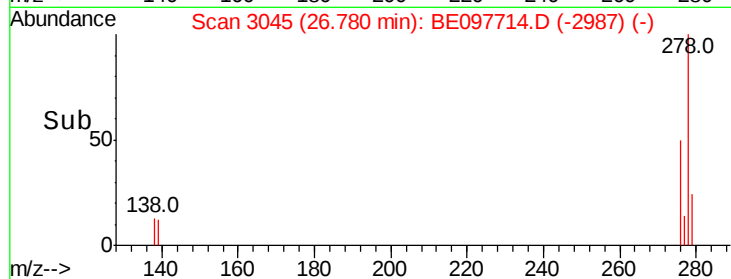
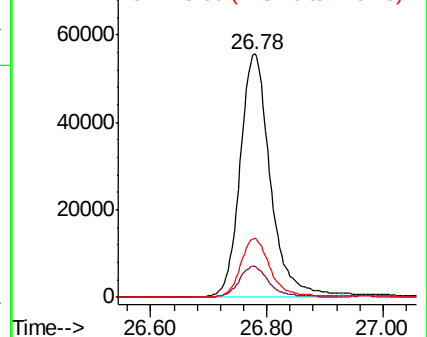
279 24.2 18.4 27.6



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: 0.296 ng

RT: 27.57 min Scan# 3267

Delta R.T. 0.01 min

Lab File: BE097714.D

Acq: 3 Oct 2018 14:14

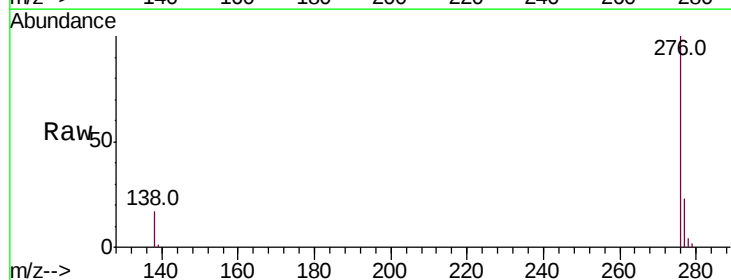
Tgt Ion:276 Resp: 32651

Ion Ratio Lower Upper

276 100

277 23.2 19.1 28.7

138 17.2 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

