

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG082219\
 Data File : BG042421.D
 Acq On : 23 Aug 2019 3:58
 Operator : HP/JU
 Sample : K4086-01 2X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Aug 23 06:49:58 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082219.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 22 14:29:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.00	152	68819	20.00	ng	0.00
21) Naphthalene-d8	10.83	136	256313	20.00	ng	0.00
39) Acenaphthene-d10	14.66	164	160623	20.00	ng	0.00
64) Phenanthrene-d10	17.41	188	317744	20.00	ng	0.00
76) Chrysene-d12	21.70	240	329655	20.00	ng	0.00
87) Perylene-d12	24.94	264	358528	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.56	112	411903	121.22	ng	0.00
7) Phenol-d6	7.17	99	502792	109.54	ng	0.00
23) Nitrobenzene-d5	9.17	82	247200	66.65	ng	0.00
42) 2,4,6-Tribromophenol	16.16	330	183632	80.43	ng	0.00
45) 2-Fluorobiphenyl	13.28	172	696220	73.31	ng	0.00
79) Terphenyl-d14	20.03	244	1007682	66.09	ng	0.00

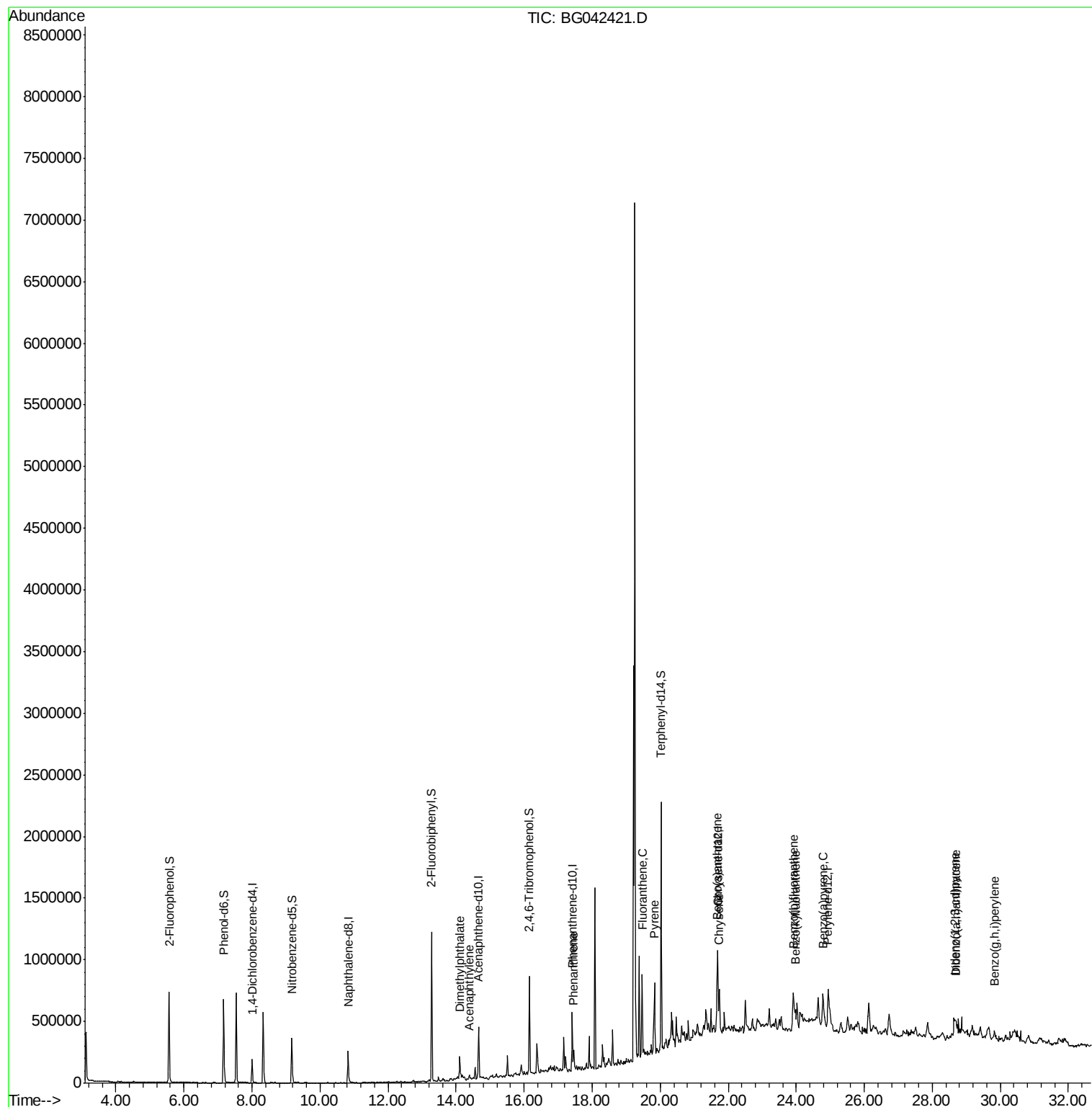
Target Compounds				Qvalue		
49) Acenaphthylene	14.39	152	27880	2.070	ng	# 94
50) Dimethylphthalate	14.11	163	136919	11.814	ng	98
71) Phenanthrene	17.46	178	109081	6.911	ng	98
75) Fluoranthene	19.47	202	371156	19.269	ng	99
78) Pyrene	19.83	202	367533	18.185	ng	99
81) Benzo(a)anthracene	21.67	228	251374	12.535	ng	98
83) Chrysene	21.74	228	278473	14.399	ng	98
86) Indeno(1,2,3-cd)pyrene	28.66	276	208060	7.916	ng	# 95
88) Benzo(b)fluoranthene	23.92	252	388913	19.731	ng	# 95
89) Benzo(k)fluoranthene	23.98	252	135024m	7.127	ng	
90) Benzo(a)pyrene	24.79	252	285920	15.287	ng	# 96
91) Dibenzo(a,h)anthracene	28.70	278	49973	2.639	ng	# 66
92) Benzo(a,h,i)perylene	29.82	276	177480	9.370	ng	95

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

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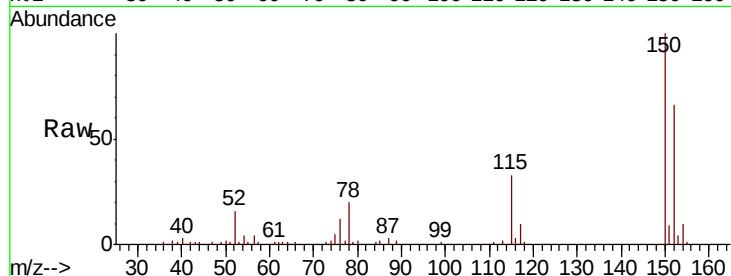


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.00 min Scan# 836
Delta R.T. -0.01 min
Lab File: BG042421.D
Acq: 23 Aug 2019 3:58

Instrument :
BNA_G
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.0	125.4	188.0
115	50.7	38.5	57.7

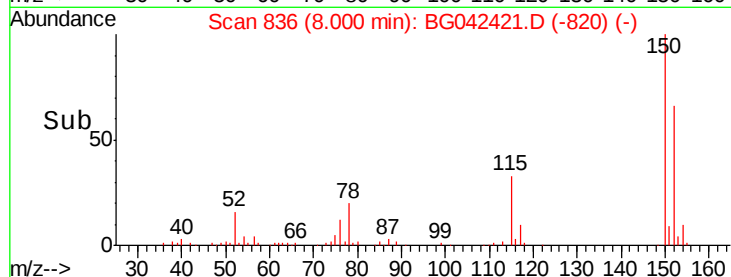
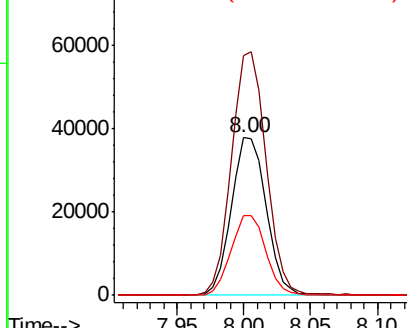


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

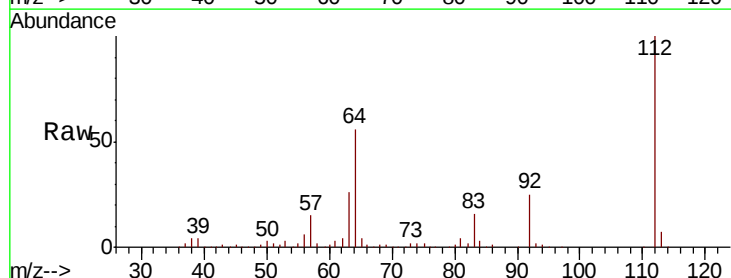
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 121.220 ng
RT: 5.56 min Scan# 421
Delta R.T. -0.00 min
Lab File: BG042421.D
Acq: 23 Aug 2019 3:58

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.1	42.8	64.2
63	26.4	22.7	34.1

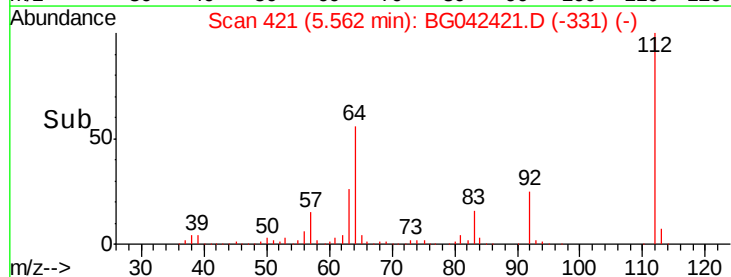
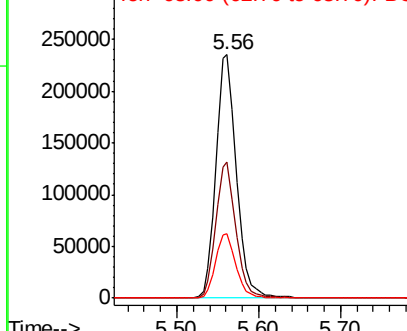


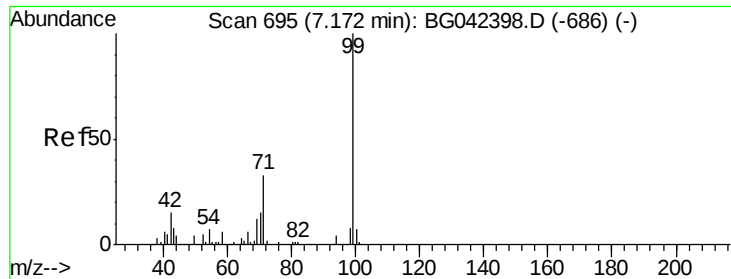
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG0

Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 109.543 ng

RT: 7.17 min Scan# 694

Delta R.T. -0.01 min

Lab File: BG042421.D

Acq: 23 Aug 2019 3:58

Instrument :

BNA_G

ClientSampleId :

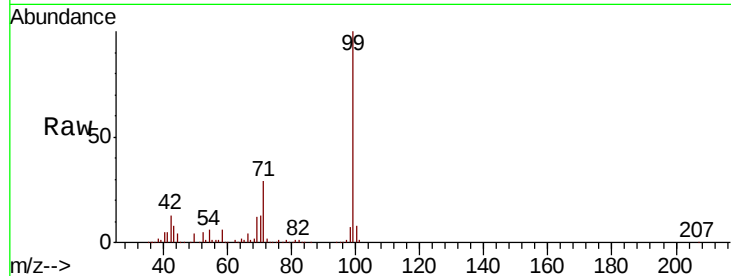
Tot Ion: 99 Resp: 502792

Ion Ratio Lower Upper

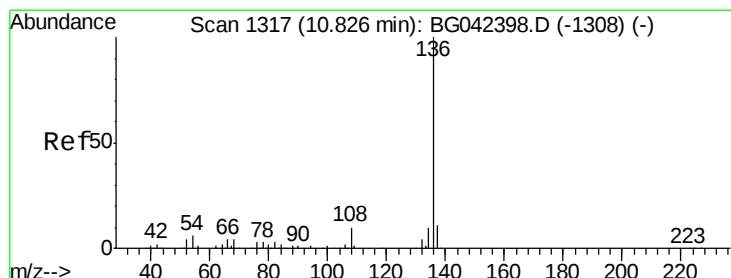
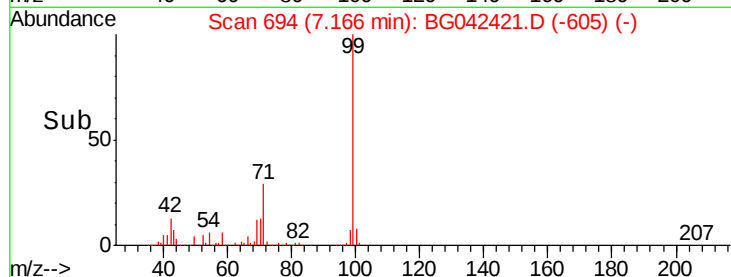
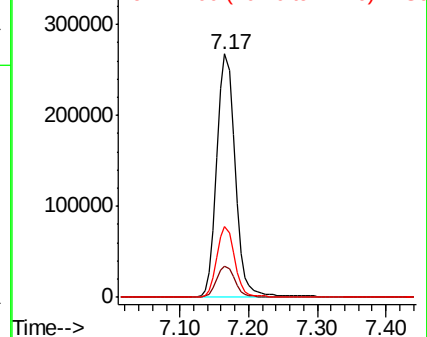
99 100

42 12.9 12.0 18.0

71 29.0 26.3 39.5



Abundance Ion 99.00 (98.70 to 99.70): BGC
Ion 42.00 (41.70 to 42.70): BGC
Ion 71.00 (70.70 to 71.70): BGC



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.83 min Scan# 1317

Delta R.T. -0.00 min

Lab File: BG042421.D

Acq: 23 Aug 2019 3:58

Tgt Ion: 136 Resp: 256313

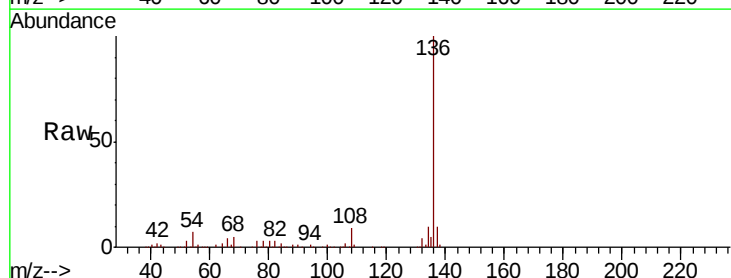
Ion Ratio Lower Upper

136 100

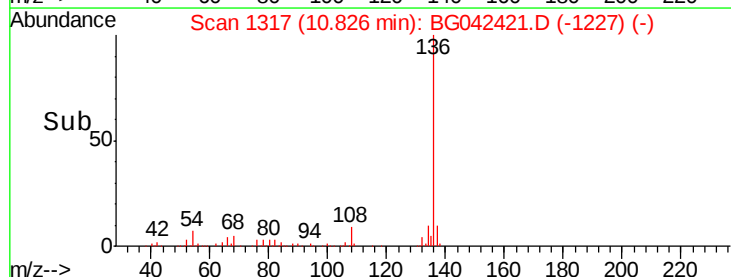
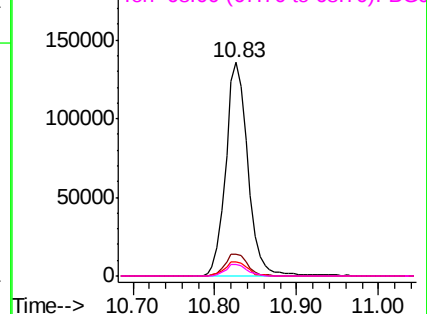
137 10.4 8.7 13.1

54 6.8 4.9 7.3

68 5.5 3.6 5.4#



Abundance Ion 136.00 (135.70 to 136.70): BGC
Ion 137.00 (136.70 to 137.70): BGC
Ion 54.00 (53.70 to 54.70): BGC
Ion 68.00 (67.70 to 68.70): BGC

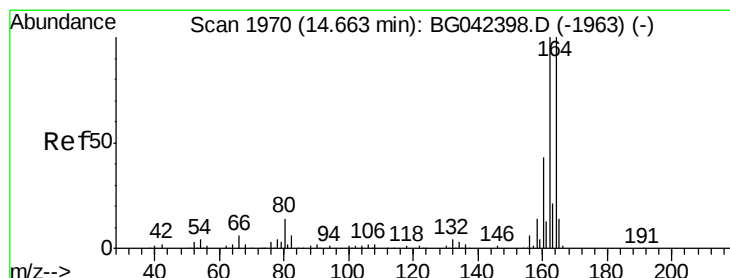
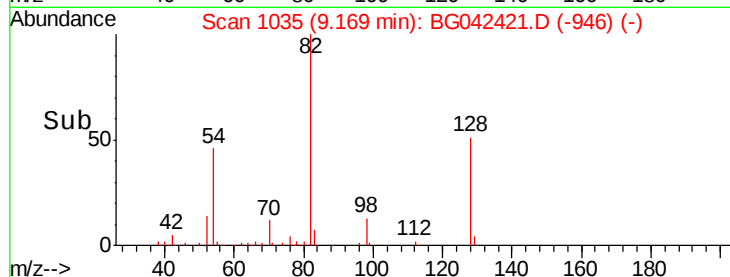
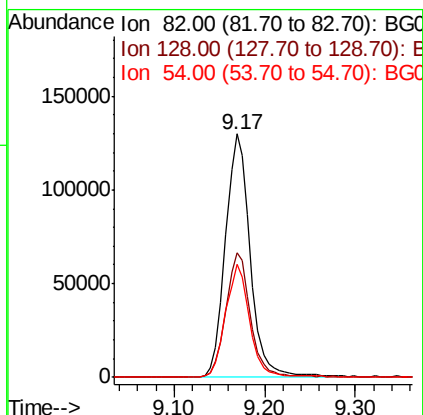
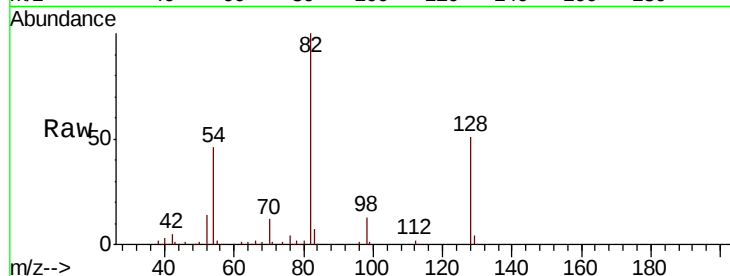




#23
 Nitrobenzene-d5
 Concen: 66.647 ng
 RT: 9.17 min Scan# 1035
 Delta R.T. -0.01 min
 Lab File: BG042421.D
 Acq: 23 Aug 2019 3:58

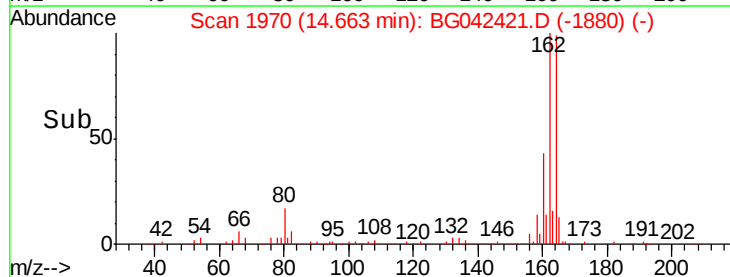
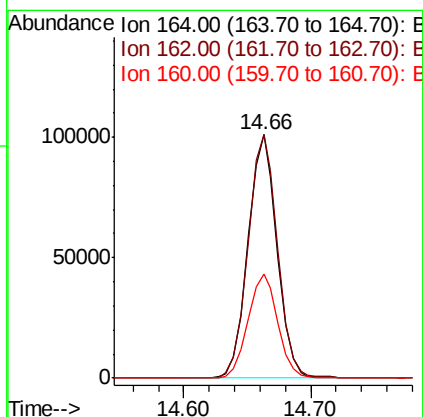
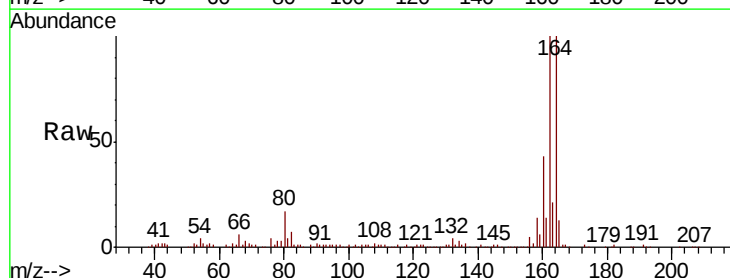
Instrument :
 BNA_G
 ClientSampleId :

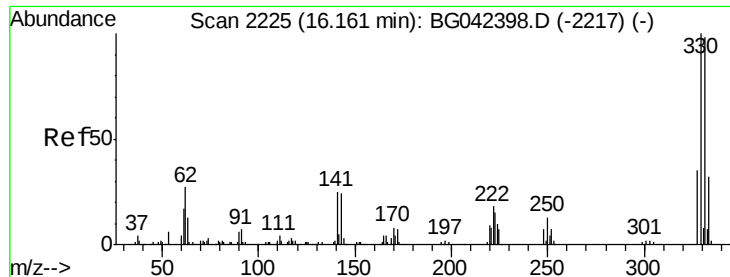
Tot Ion	82	Resp	247200
Ion Ratio	Lower	Upper	
82	100		
128	51.0	40.7	61.1
54	46.2	36.3	54.5



#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 14.66 min Scan# 1970
 Delta R.T. -0.00 min
 Lab File: BG042421.D
 Acq: 23 Aug 2019 3:58

Tgt Ion	164	Resp	160623
Ion Ratio	Lower	Upper	
164	100		
162	100.0	79.9	119.9
160	42.7	34.3	51.5





#42

2,4,6-Tribromophenol

Concen: 80.435 ng

RT: 16.16 min Scan# 2224

Delta R.T. -0.01 min

Lab File: BG042421.D

Acq: 23 Aug 2019 3:58

Instrument :

BNA_G

ClientSampleId :

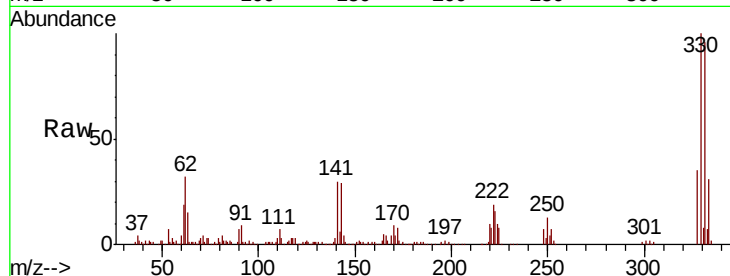
Tot Ion:330 Resp: 183632

Ion Ratio Lower Upper

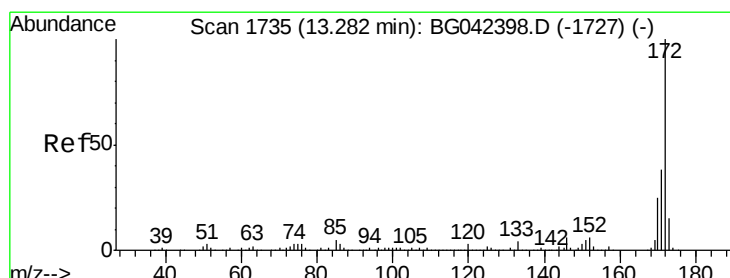
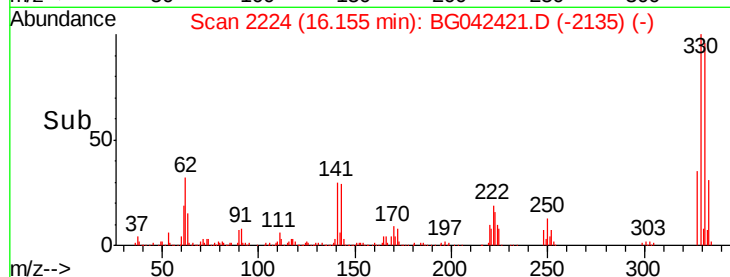
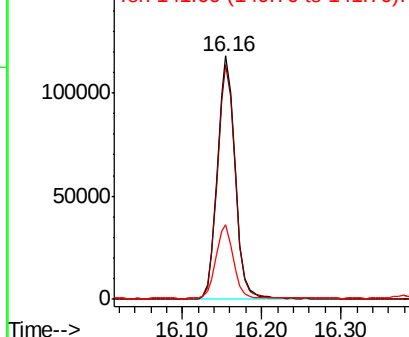
330 100

332 96.2 77.4 116.0

141 29.4 21.4 32.0



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



#45

2-Fluorobiphenyl

Concen: 73.309 ng

RT: 13.28 min Scan# 1735

Delta R.T. -0.00 min

Lab File: BG042421.D

Acq: 23 Aug 2019 3:58

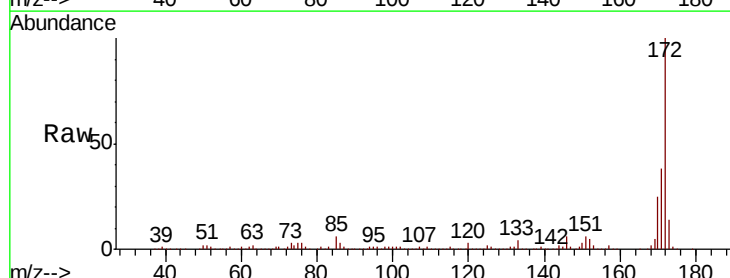
Tgt Ion:172 Resp: 696220

Ion Ratio Lower Upper

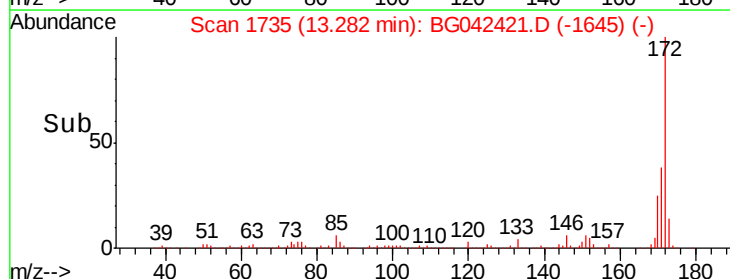
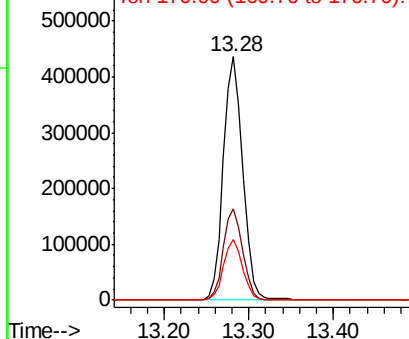
172 100

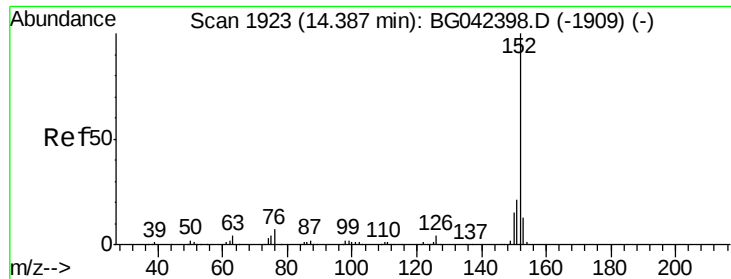
171 37.6 30.5 45.7

170 25.0 20.2 30.2



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





#49

Acenaphthylene

Concen: 2.070 ng

RT: 14.39 min Scan# 1924

Delta R.T. 0.01 min

Lab File: BG042421.D

Acq: 23 Aug 2019 3:58

Instrument :

BNA_G

ClientSampleId :

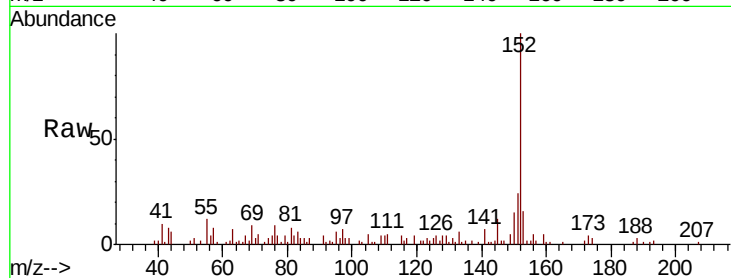
Tot Ion:152 Resp: 27880

Ion Ratio Lower Upper

152 100

151 23.8 17.0 25.4

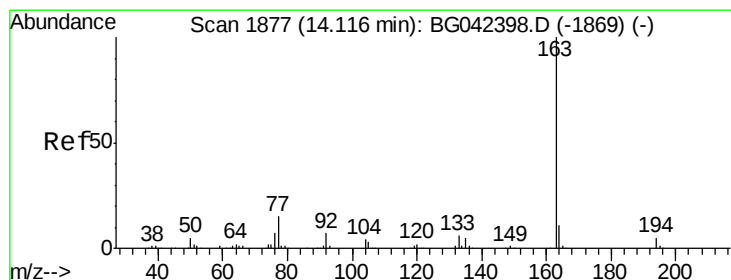
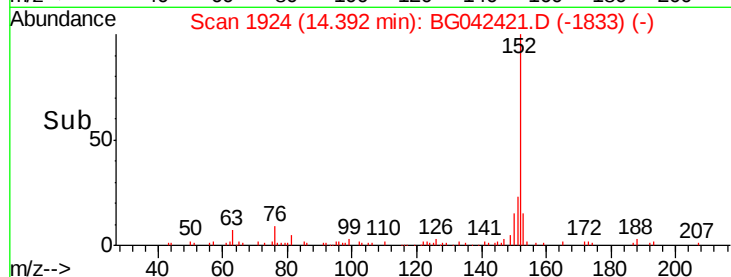
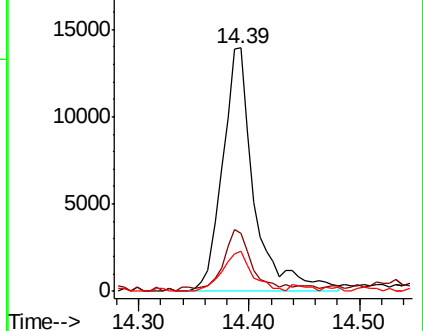
153 16.4 10.6 16.0#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 11.814 ng

RT: 14.11 min Scan# 1876

Delta R.T. -0.01 min

Lab File: BG042421.D

Acq: 23 Aug 2019 3:58

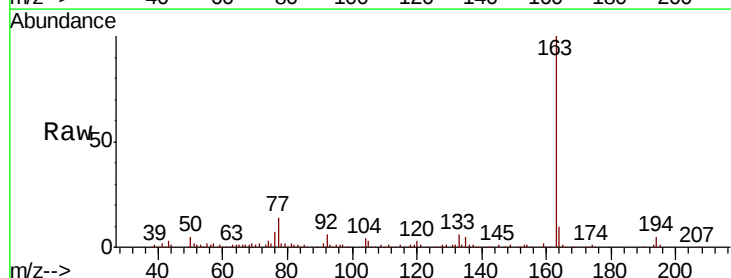
Tgt Ion:163 Resp: 136919

Ion Ratio Lower Upper

163 100

194 5.4 4.2 6.2

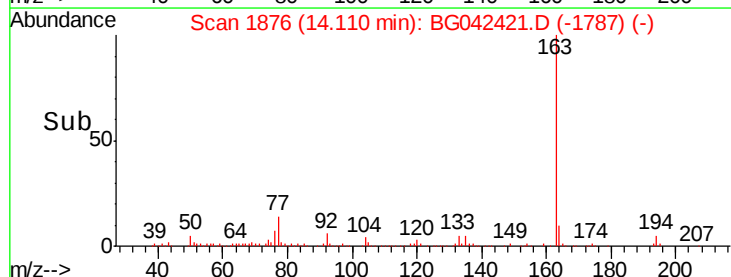
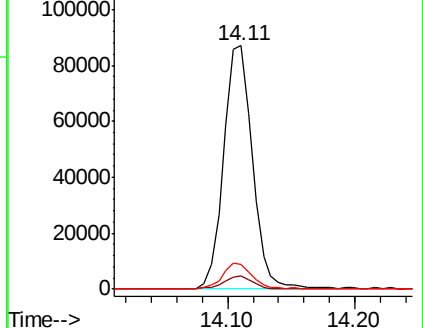
164 10.3 8.8 13.2

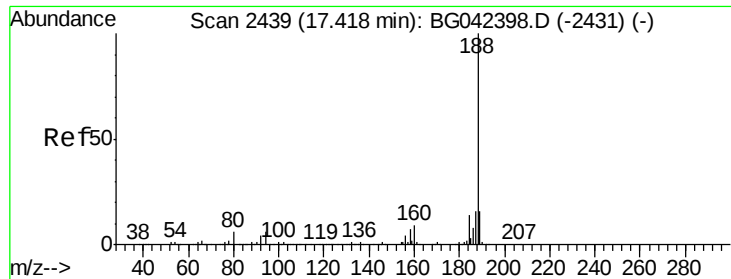


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.41 min Scan# 2438

Delta R.T. -0.01 min

Lab File: BG042421.D

Acq: 23 Aug 2019 3:58

Instrument :

BNA_G

ClientSampleId :

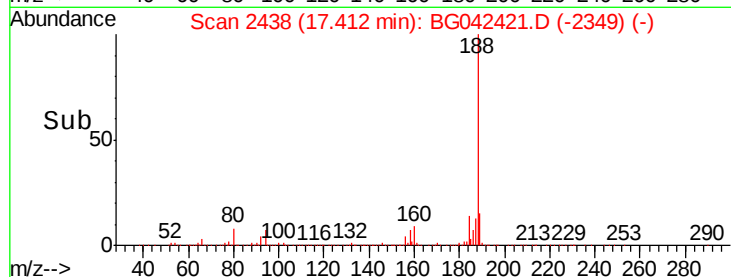
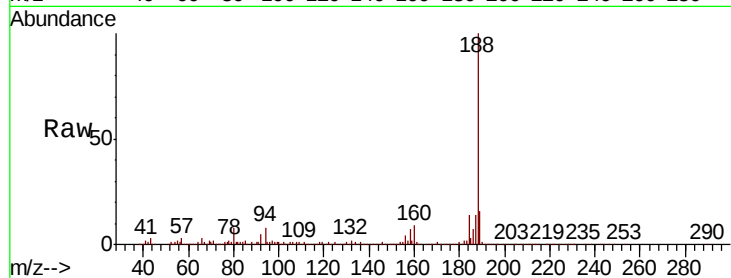
Tot Ion:188 Resp: 317744

Ion Ratio Lower Upper

188 100

94 7.5 4.5 6.7#

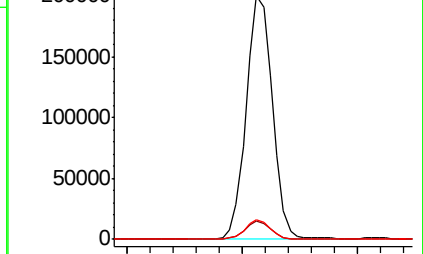
80 8.0 4.9 7.3#



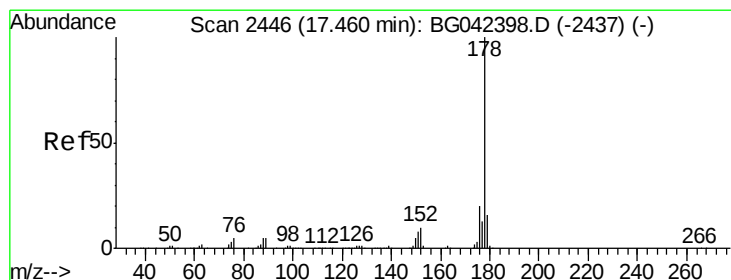
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



Time--> 17.30 17.40 17.50



#71

Phenanthrene

Concen: 6.911 ng

RT: 17.46 min Scan# 2446

Delta R.T. -0.00 min

Lab File: BG042421.D

Acq: 23 Aug 2019 3:58

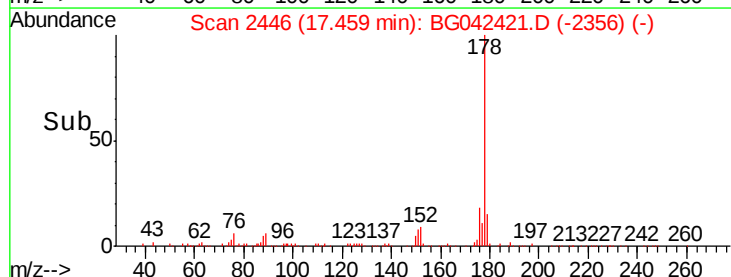
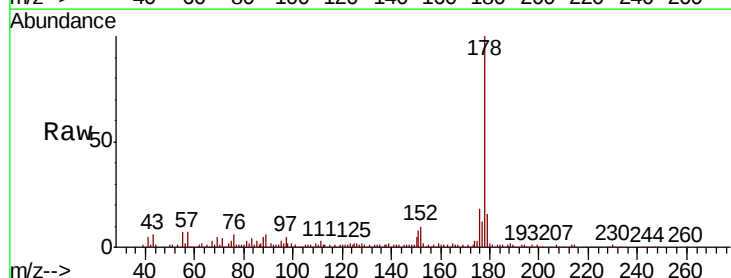
Tgt Ion:178 Resp: 109081

Ion Ratio Lower Upper

178 100

176 18.1 15.9 23.9

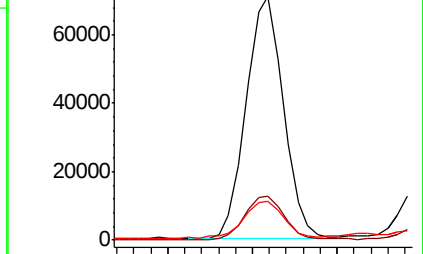
179 16.0 12.7 19.1



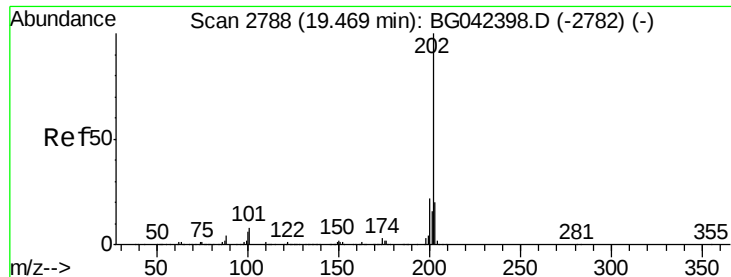
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time--> 17.40 17.45 17.50



#75

Fluoranthene

Concen: 19.269 ng

RT: 19.47 min Scan# 2788

Delta R.T. -0.00 min

Lab File: BG042421.D

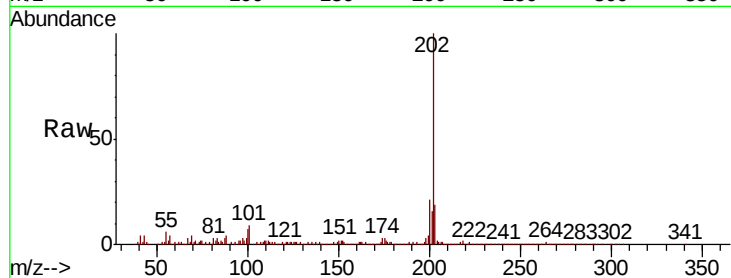
Acq: 23 Aug 2019 3:58

Instrument :

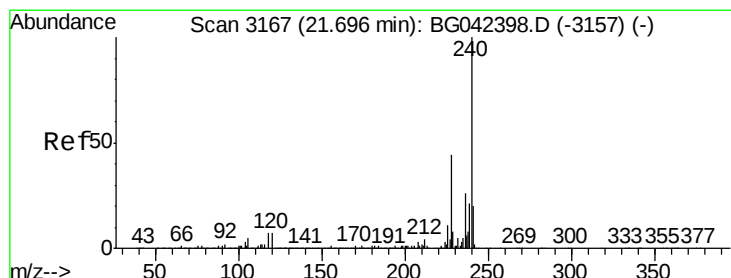
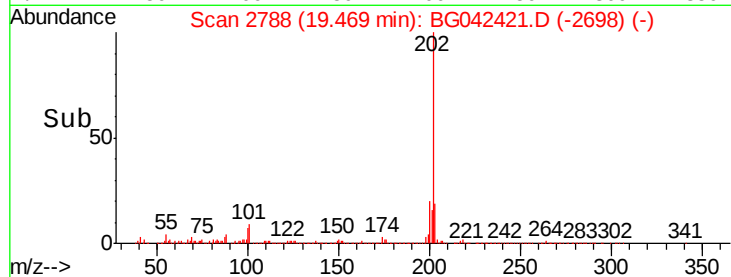
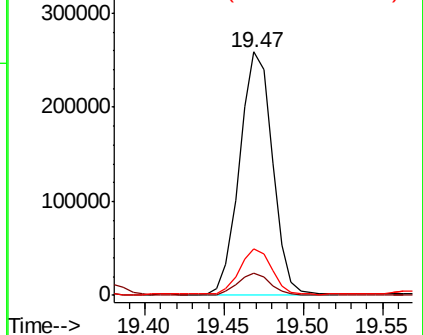
BNA_G

ClientSampleId :

Tot Ion:	202	Resp:	371156
Ion	Ratio	Lower	Upper
202	100		
101	9.0	0.0	28.3
203	19.1	0.0	39.6



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



#76

Chrysene-d12

Concen: 20.000 ng

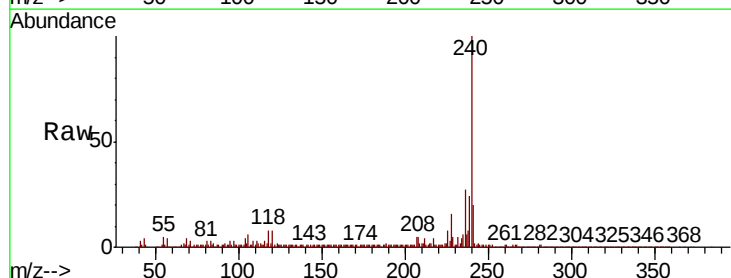
RT: 21.70 min Scan# 3167

Delta R.T. -0.00 min

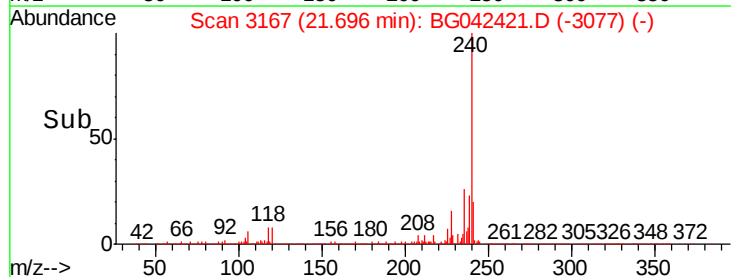
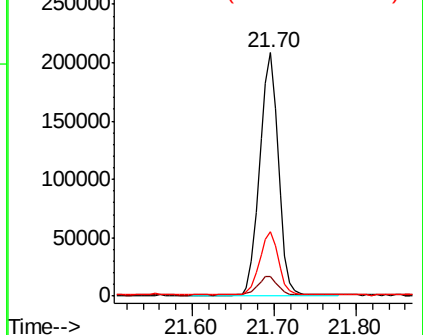
Lab File: BG042421.D

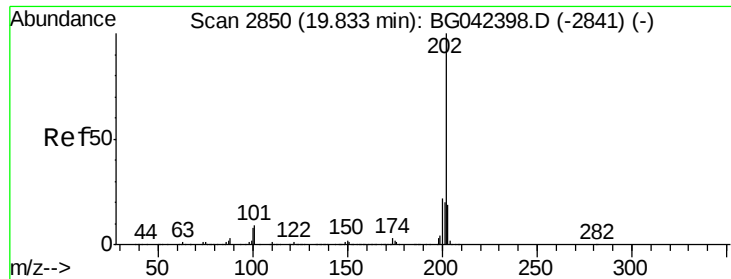
Acq: 23 Aug 2019 3:58

Tgt Ion:	240	Resp:	329655
Ion	Ratio	Lower	Upper
240	100		
120	8.3	5.7	8.5
236	26.5	21.0	31.4



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

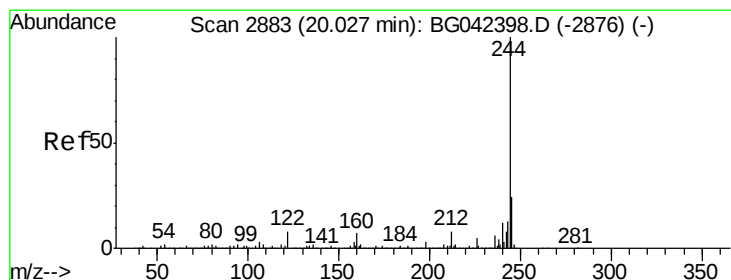
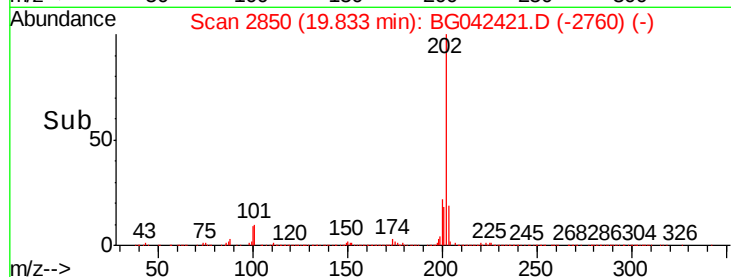
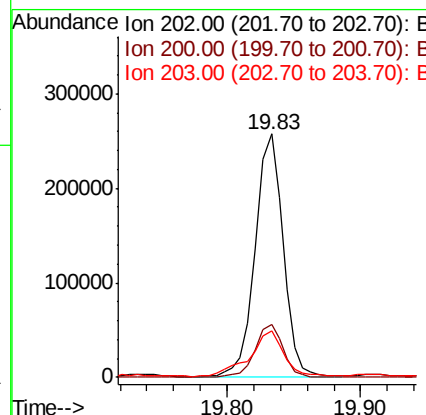
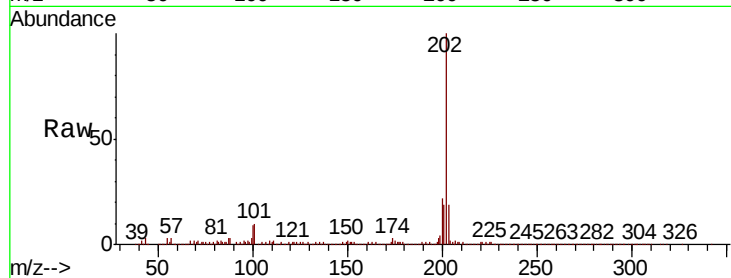




#78
Pvrene
Concen: 18.185 ng
RT: 19.83 min Scan# 2850
Delta R.T. -0.00 min
Lab File: BG042421.D
Acq: 23 Aug 2019 3:58

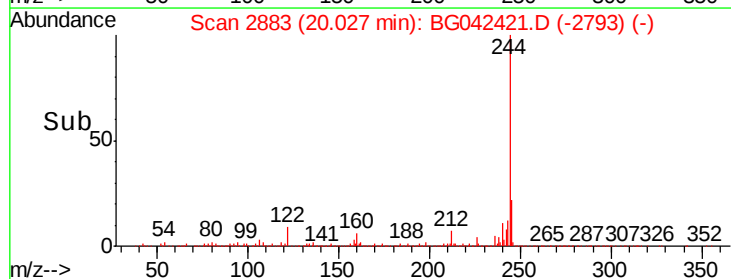
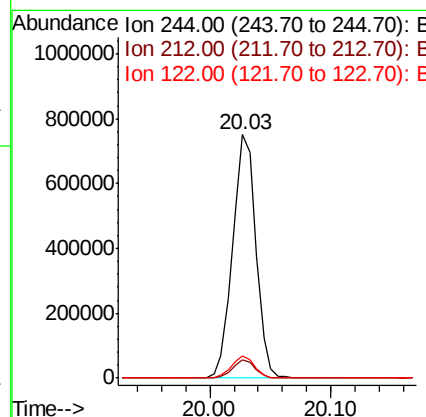
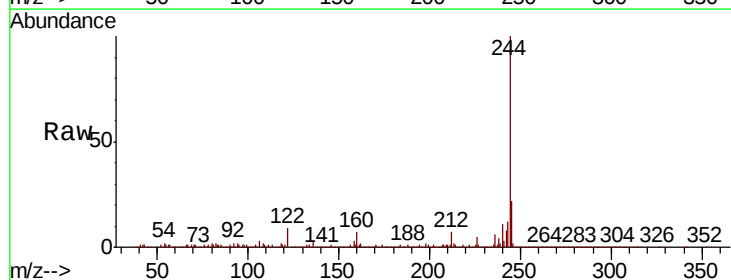
Instrument :
BNA_G
ClientSampleId :

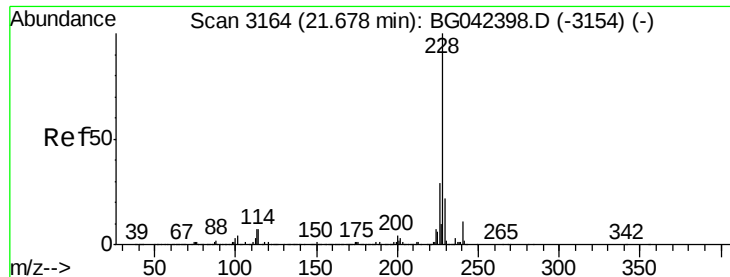
Tot Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.8	26.6
203	19.0	15.5	23.3



#79
Terphenyl-d14
Concen: 66.085 ng
RT: 20.03 min Scan# 2883
Delta R.T. -0.00 min
Lab File: BG042421.D
Acq: 23 Aug 2019 3:58

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.3	6.0	9.0
122	9.4	6.7	10.1





#81

Benzo(a)anthracene

Concen: 12.535 ng

RT: 21.67 min Scan# 3163

Delta R.T. -0.01 min

Lab File: BG042421.D

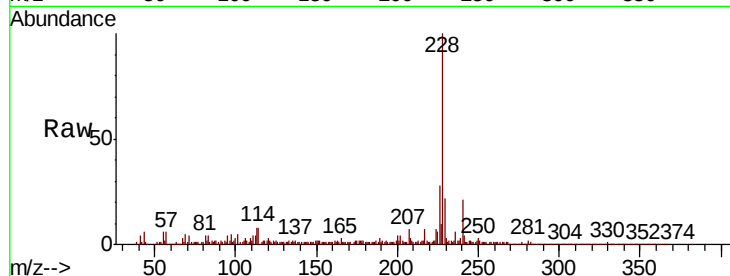
Acq: 23 Aug 2019 3:58

Instrument :

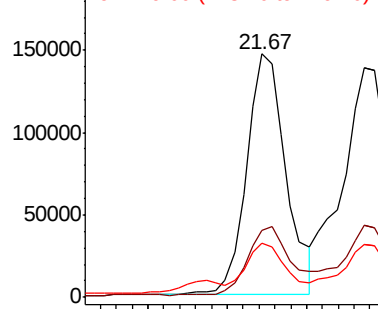
BNA_G

ClientSampleId :

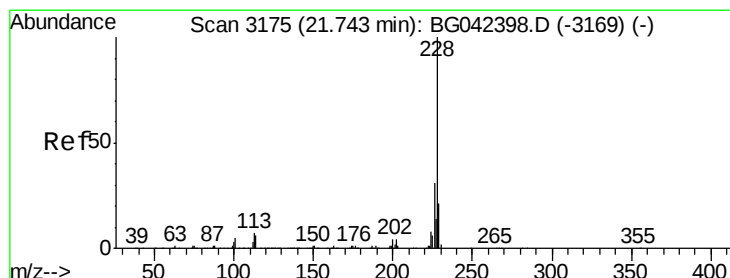
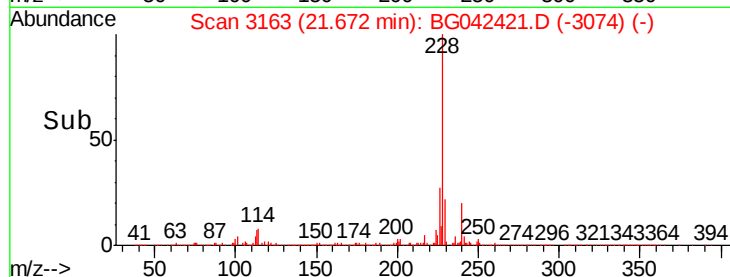
Tot Ion:	228	Resp:	251374
Ion	Ratio	Lower	Upper
228	100		
226	27.7	23.4	35.2
229	22.3	17.4	26.2



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



Time-->



#83

Chrysene

Concen: 14.399 ng

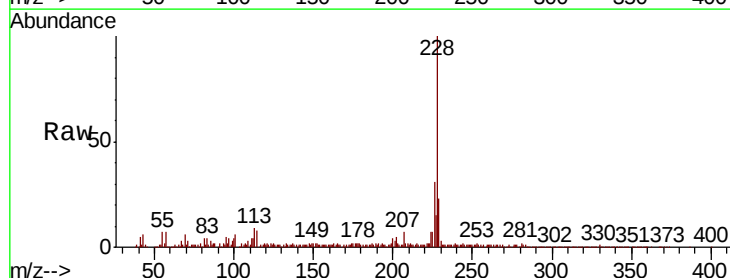
RT: 21.74 min Scan# 3174

Delta R.T. -0.01 min

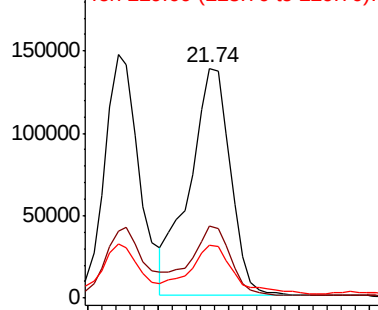
Lab File: BG042421.D

Acq: 23 Aug 2019 3:58

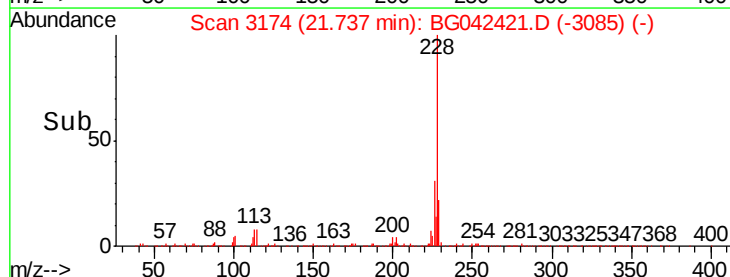
Tgt Ion:	228	Resp:	278473
Ion	Ratio	Lower	Upper
228	100		
226	31.3	24.9	37.3
229	23.0	16.9	25.3

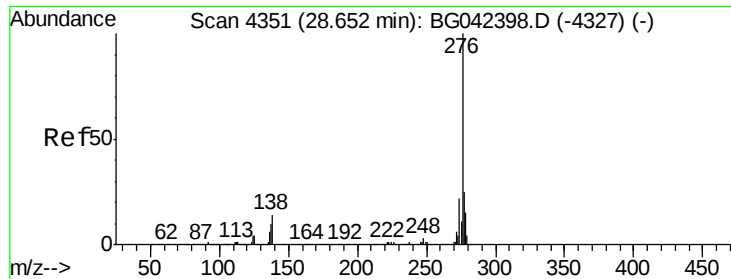


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



Time-->

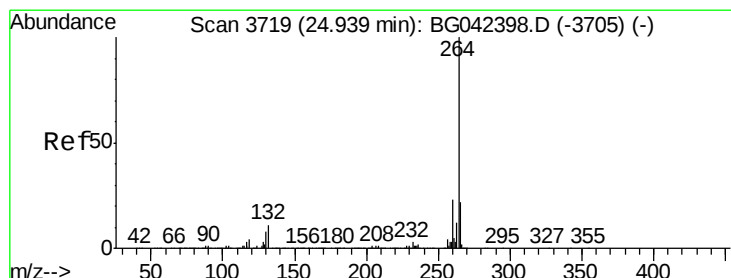
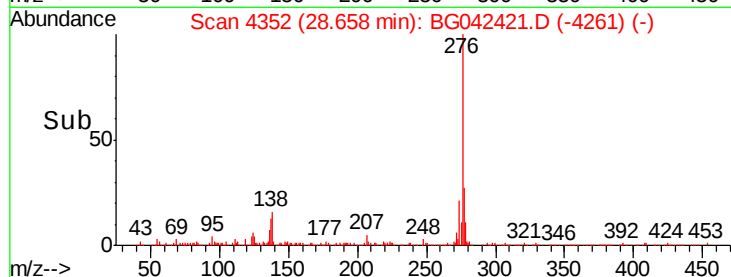
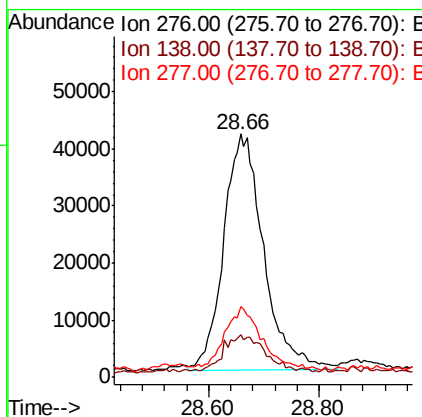
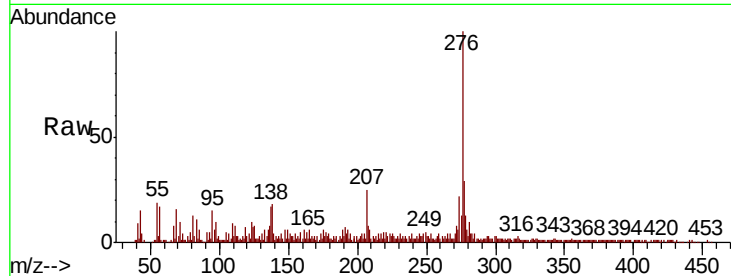




#86
Indeno(1,2,3-cd)pyrene
Concen: 7.916 ng
RT: 28.66 min Scan# 4352
Delta R.T. 0.01 min
Lab File: BG042421.D
Acq: 23 Aug 2019 3:58

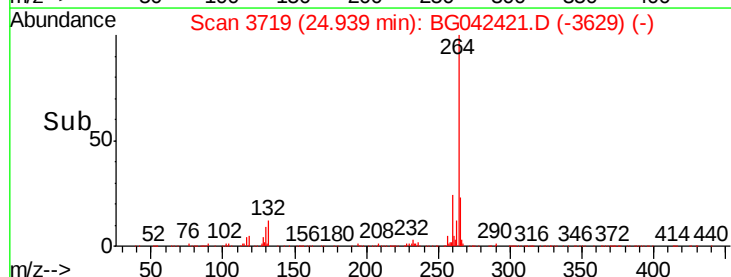
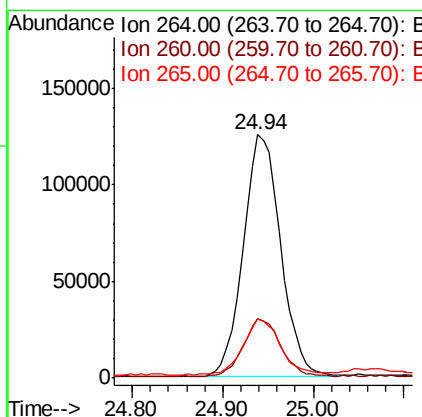
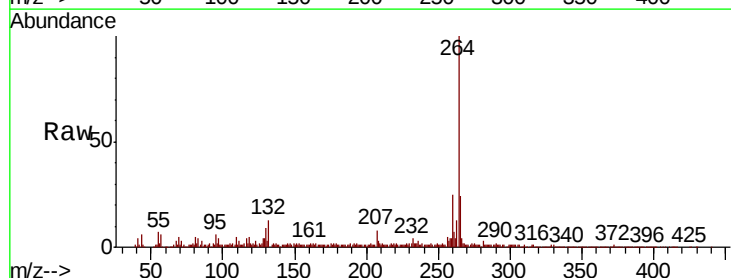
Instrument :
BNA_G
ClientSampled :

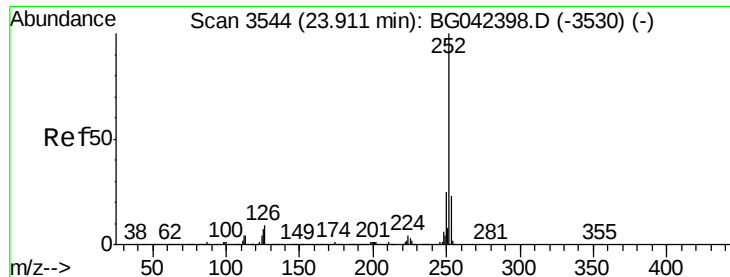
Tot Ion:276 Resp: 208060
Ion Ratio Lower Upper
276 100
138 15.4 9.2 13.8#
277 25.1 21.0 31.6



#87
Perylene-d12
Concen: 20.000 ng
RT: 24.94 min Scan# 3719
Delta R.T. -0.00 min
Lab File: BG042421.D
Acq: 23 Aug 2019 3:58

Tgt Ion:264 Resp: 358528
Ion Ratio Lower Upper
264 100
260 24.5 18.5 27.7
265 24.2 17.6 26.4

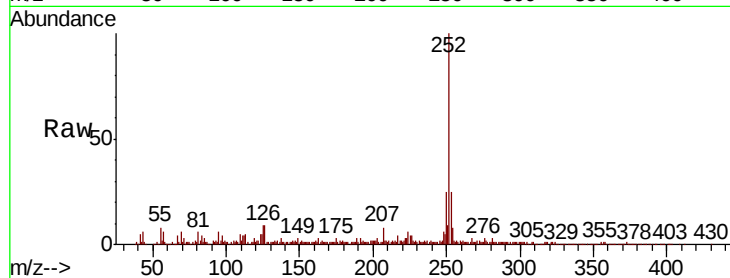




#88
Benzo(b)fluoranthene
Concen: 19.731 ng
RT: 23.92 min Scan# 3545
Delta R.T. 0.01 min
Lab File: BG042421.D
Acq: 23 Aug 2019 3:58

Instrument :
BNA_G
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.4	18.6	27.8
125	8.7	5.6	8.4#

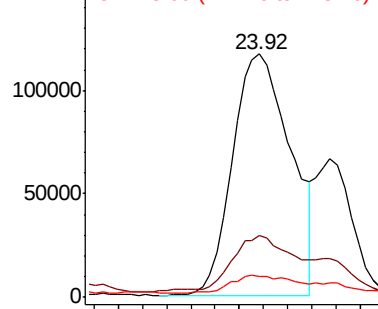


Abundance

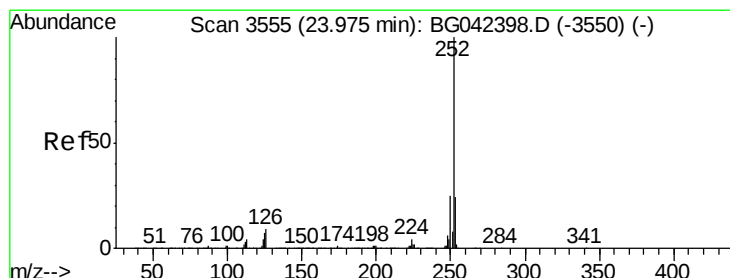
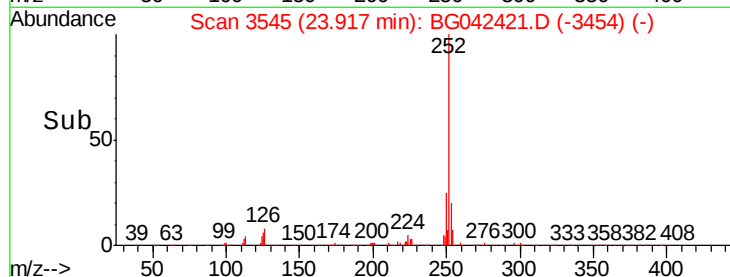
Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

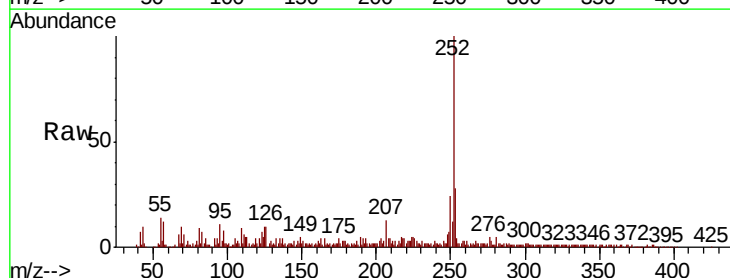


Time-->



#89
Benzo(k)fluoranthene
Concen: 7.127 ng m
RT: 23.98 min Scan# 3555
Delta R.T. -0.00 min
Lab File: BG042421.D
Acq: 23 Aug 2019 3:58

Tgt Ion	Ratio	Lower	Upper
252	100		
253	28.1	18.6	27.8#
125	10.1	5.8	8.6#

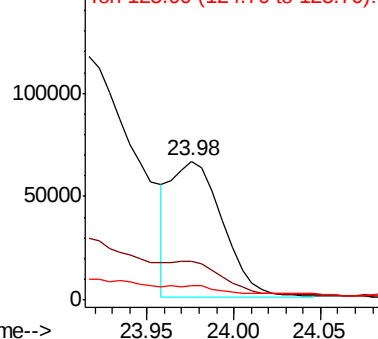


Abundance

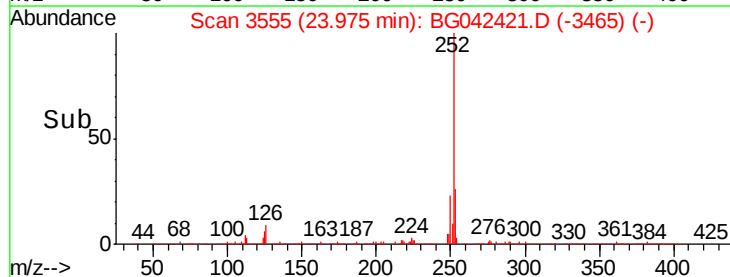
Ion 252.00 (251.70 to 252.70): E

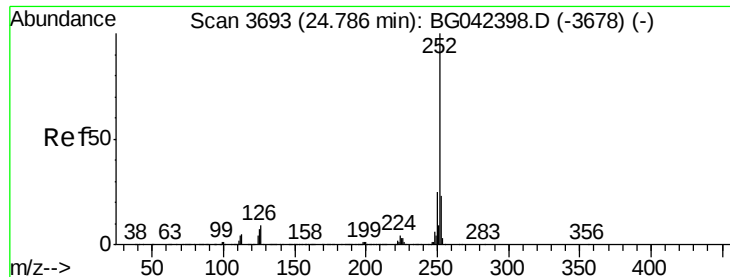
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->





#90

Benzo(a)pyrene

Concen: 15.287 ng

RT: 24.79 min Scan# 3694

Delta R.T. 0.01 min

Lab File: BG042421.D

Acq: 23 Aug 2019 3:58

Instrument :

BNA_G

ClientSampleId :

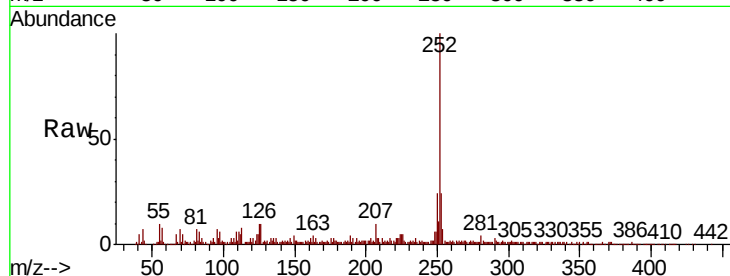
Tot Ion:252 Resp: 285920

Ion Ratio Lower Upper

252 100

253 24.4 18.4 27.6

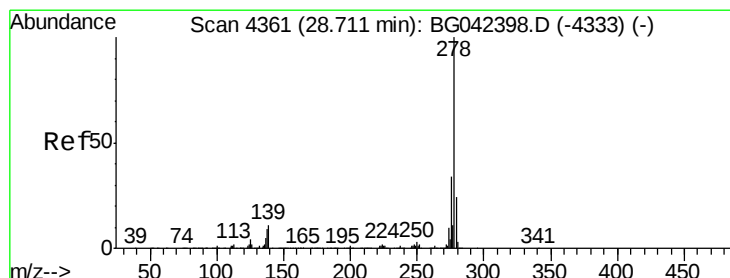
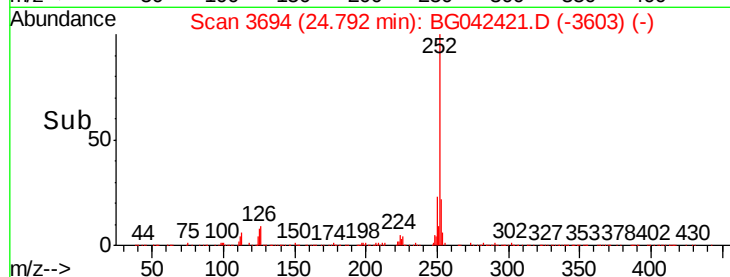
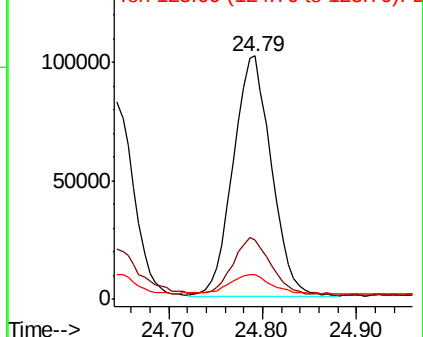
125 10.2 6.0 9.0#



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



#91

Dibenzo(a,h)anthracene

Concen: 2.639 ng

RT: 28.70 min Scan# 4359

Delta R.T. -0.01 min

Lab File: BG042421.D

Acq: 23 Aug 2019 3:58

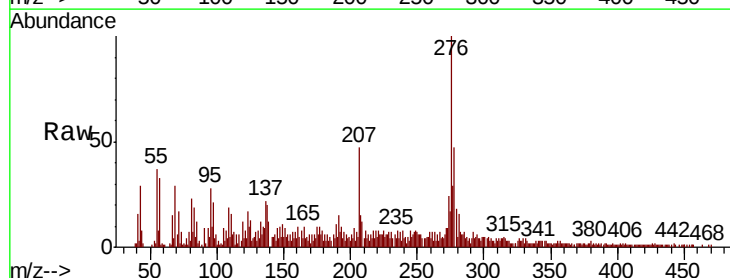
Tgt Ion:278 Resp: 49973

Ion Ratio Lower Upper

278 100

139 26.3 8.8 13.2#

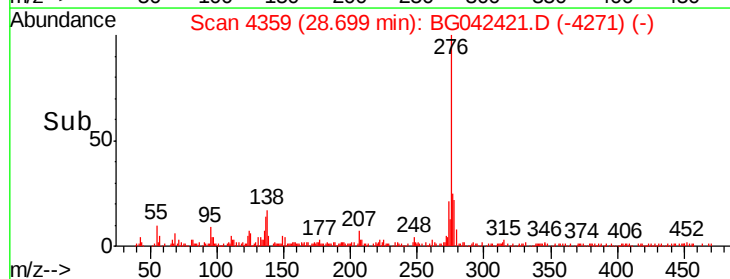
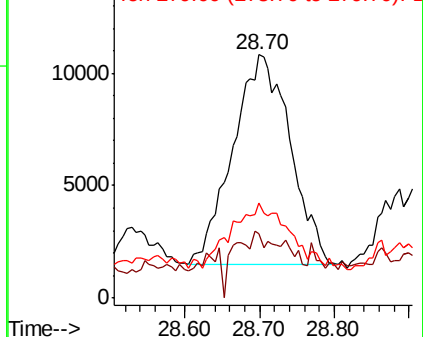
279 38.9 19.1 28.7#

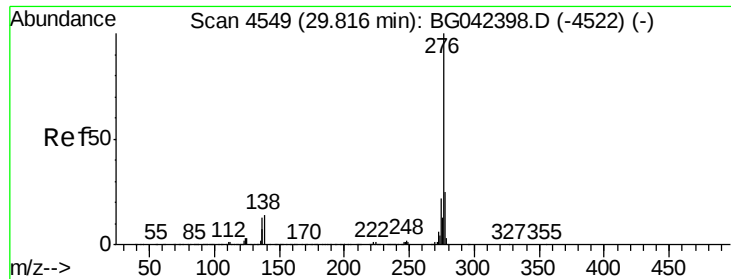


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92

Benzo(a,h,i)perylene

Concen: 9.370 ng

RT: 29.82 min Scan# 4550

Delta R.T. 0.01 min

Lab File: BG042421.D

Acq: 23 Aug 2019 3:58

Instrument :

BNA_G

ClientSampleId :

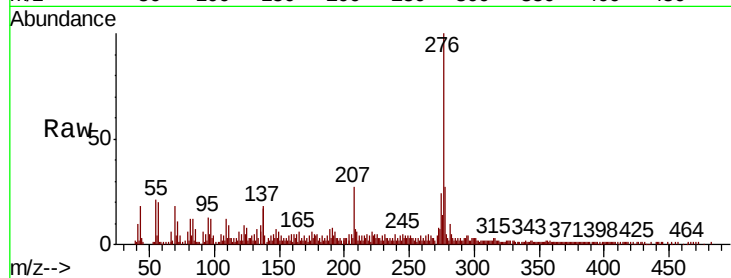
Tot Ion: 276 Resp: 177480

Ion Ratio Lower Upper

276 100

277 26.7 19.8 29.8

138 16.9 11.4 17.0



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

