

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG021720\
 Data File : BG044465.D
 Acq On : 18 Feb 2020 2:49
 Operator : CG/JU
 Sample : L1528-03RE
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Feb 18 06:09:01 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG013020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 10 16:11:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.89	152	84772	20.00	ng	-0.01
21) Naphthalene-d8	10.69	136	344382	20.00	ng	-0.01
39) Acenaphthene-d10	14.53	164	206602	20.00	ng	-0.01
64) Phenanthrene-d10	17.27	188	440486	20.00	ng	-0.01
76) Chrysene-d12	21.52	240	448706	20.00	ng	-0.02
87) Perylene-d12	24.60	264	473411	20.00	ng	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.47	112	561171	116.83	ng	0.00
7) Phenol-d6	7.06	99	715873	110.98	ng	-0.01
23) Nitrobenzene-d5	9.04	82	440630	72.23	ng	-0.02
42) 2,4,6-Tribromophenol	16.02	330	262070	108.05	ng	-0.01
45) 2-Fluorobiphenyl	13.15	172	951295	77.10	ng	-0.01
79) Terphenyl-d14	19.89	244	1396544	64.02	ng	-0.01

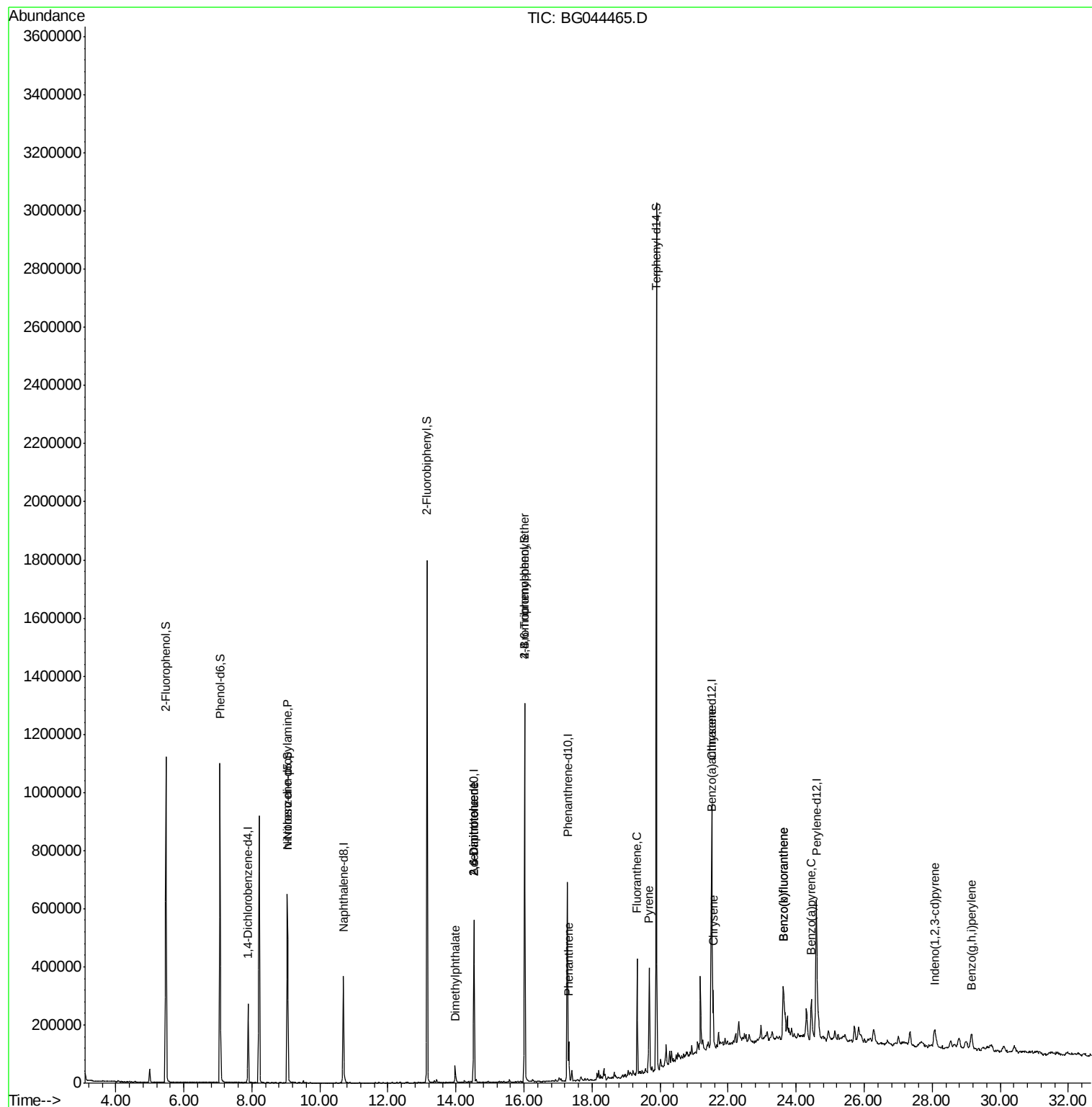
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	9.05	70	56380	13.115	ng	# 74
50) Dimethylphthalate	13.98	163	47775	3.217	ng	# 97
51) 2,6-Dinitrotoluene	14.52	165	27100	8.184	ng	# 30
57) 2,4-Dinitrotoluene	14.52	165	27100	5.839	ng	# 28
67) 4-Bromophenyl-phenylether	16.02	248	17604	3.668	ng	# 1
71) Phenanthrene	17.32	178	87511	4.103	ng	96
75) Fluoranthene	19.33	202	243369	9.863	ng	98
78) Pyrene	19.68	202	226630	7.865	ng	94
81) Benzo(a)anthracene	21.50	228	151754	5.488	ng	95
83) Chrysene	21.56	228	142735	5.340	ng	96
86) Indeno(1,2,3-cd)pyrene	28.07	276	103119	2.957	ng	96
88) Benzo(b)fluoranthene	23.62	252	223961	8.210	ng	98
89) Benzo(k)fluoranthene	23.62	252	223961	8.423	ng	98
90) Benzo(a)pyrene	24.45	252	149499	5.796	ng	98
92) Benzo(a,h,i)perylene	29.16	276	100655	3.939	ng	# 93

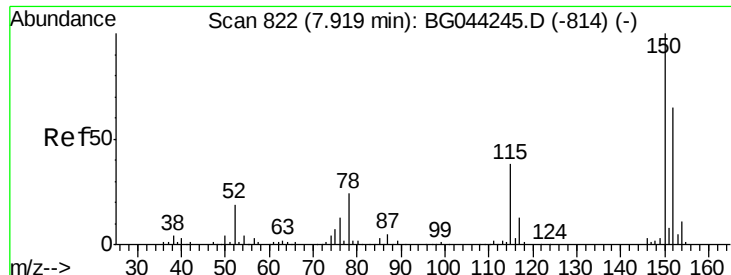
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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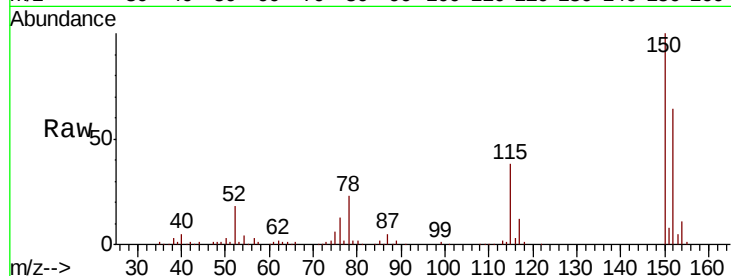


#1

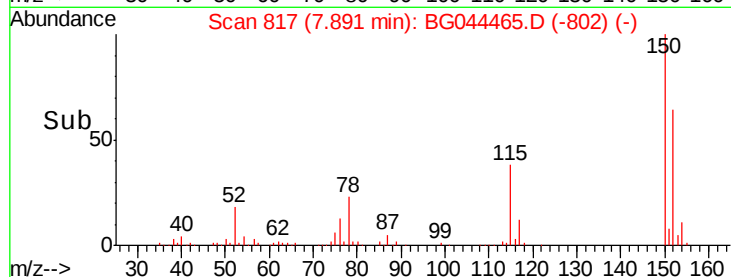
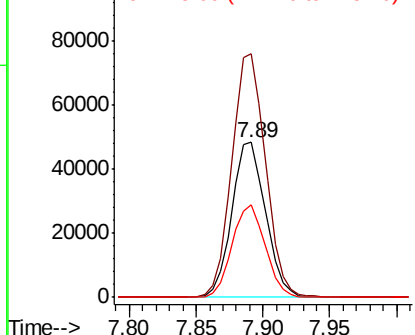
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.89 min Scan# 817
 Delta R.T. -0.01 min
 Lab File: BG044465.D
 Acq: 18 Feb 2020 2:49

Instrument :
 BNA_G
 ClientSampled :

Tot Ion:152 Resp: 84772
 Ion Ratio Lower Upper
 152 100
 150 157.2 122.6 183.8
 115 59.5 46.0 69.0



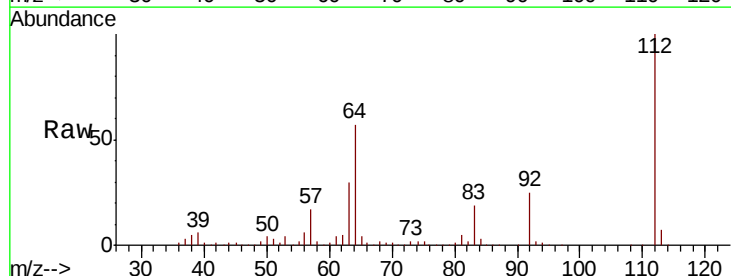
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



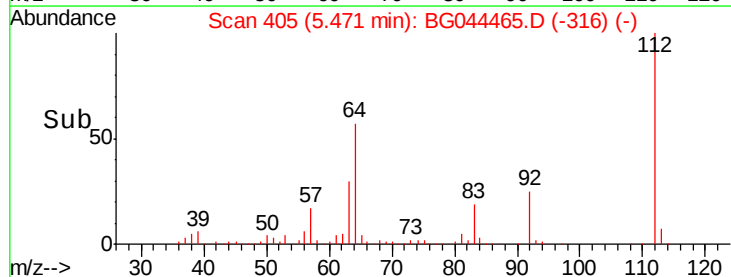
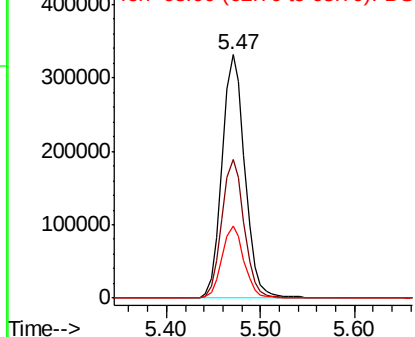
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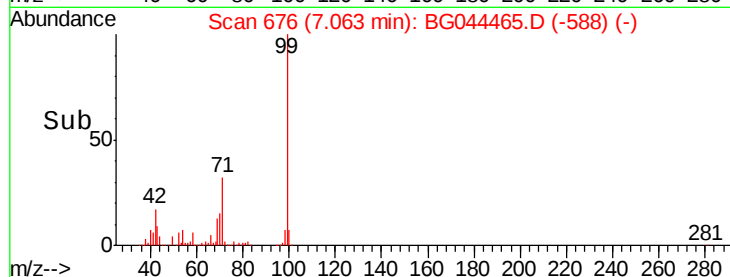
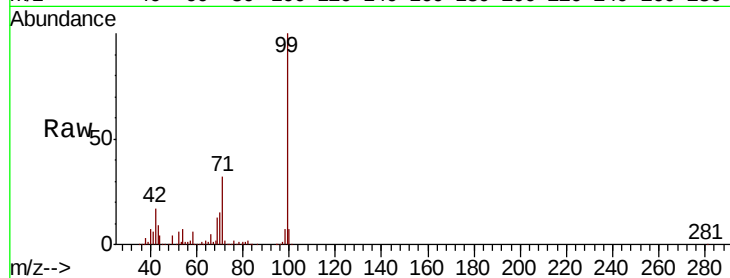
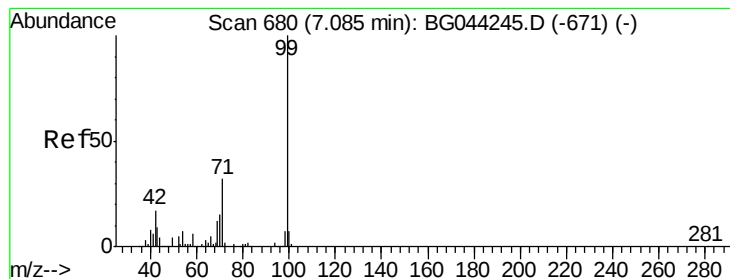
2-Fluorophenol
 Concen: 116.828 ng
 RT: 5.47 min Scan# 405
 Delta R.T. -0.01 min
 Lab File: BG044465.D
 Acq: 18 Feb 2020 2:49

Tgt Ion:112 Resp: 561171
 Ion Ratio Lower Upper
 112 100
 64 57.2 45.4 68.2
 63 29.5 22.9 34.3



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BG
 Ion 63.00 (62.70 to 63.70): BG





#7

Phenol-d6

Concen: 110.984 ng

RT: 7.06 min Scan# 676

Delta R.T. -0.01 min

Lab File: BG044465.D

Acq: 18 Feb 2020 2:49

Instrument :

BNA_G

ClientSampled :

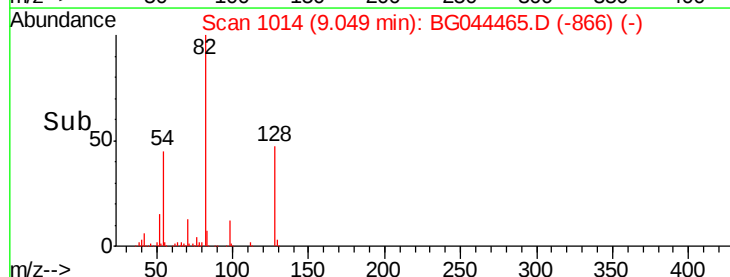
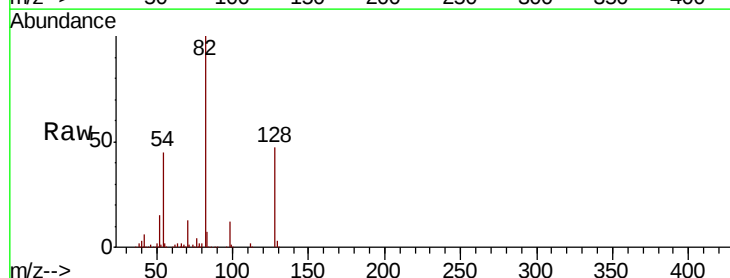
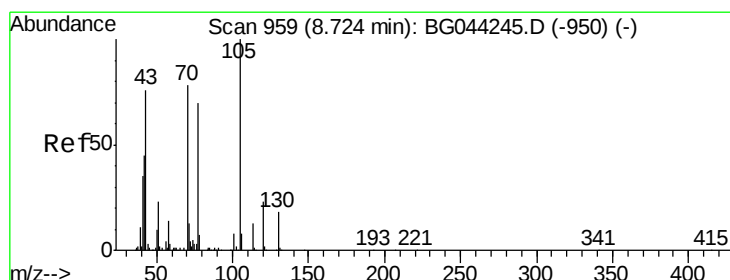
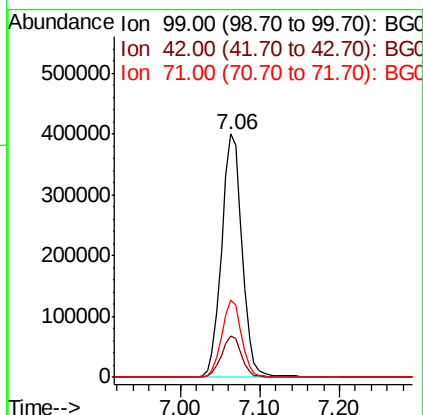
Tot Ion: 99 Resp: 715873

Ion Ratio Lower Upper

99 100

42 16.8 13.8 20.6

71 31.7 25.5 38.3



#19

n-Nitroso-di-n-propylamine

Concen: 13.115 ng

RT: 9.05 min Scan# 1014

Delta R.T. 0.34 min

Lab File: BG044465.D

Acq: 18 Feb 2020 2:49

Tgt Ion: 70 Resp: 56380

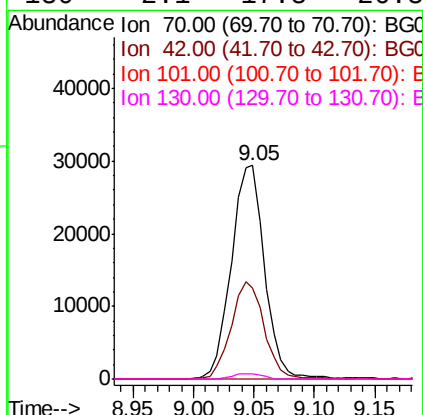
Ion Ratio Lower Upper

70 100

42 42.8 46.2 69.2#

101 0.0 8.4 12.6#

130 2.1 17.8 26.8#

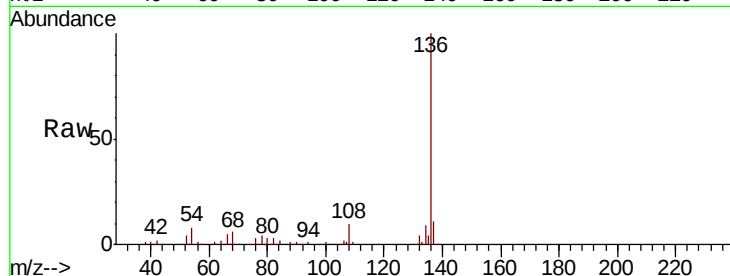




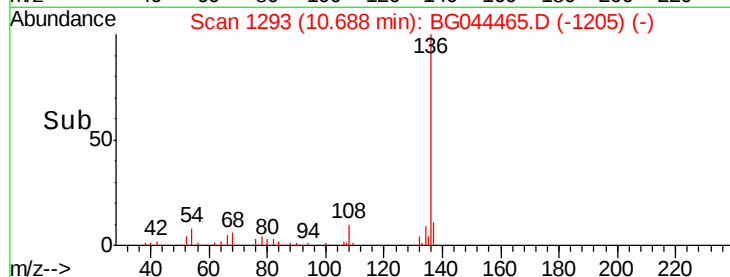
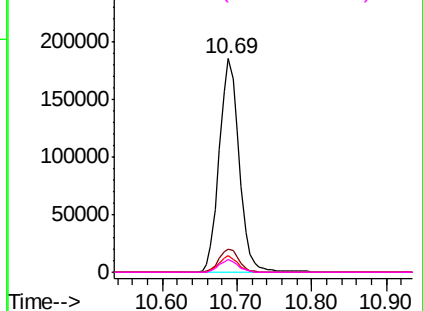
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.69 min Scan# 1293
Delta R.T. -0.01 min
Lab File: BG044465.D
Acq: 18 Feb 2020 2:49

Instrument :
BNA_G
ClientSampleId :

Tot Ion:136	Resp:	344382
Ion	Ratio	Lower Upper
136	100	
137	10.8	8.8 13.2
54	7.6	5.8 8.8
68	6.0	4.6 6.8

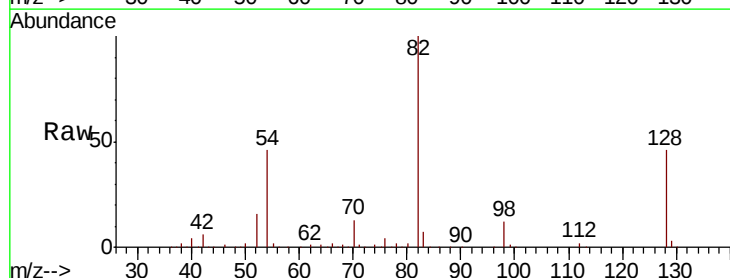


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BGC
Ion 68.00 (67.70 to 68.70): BGC

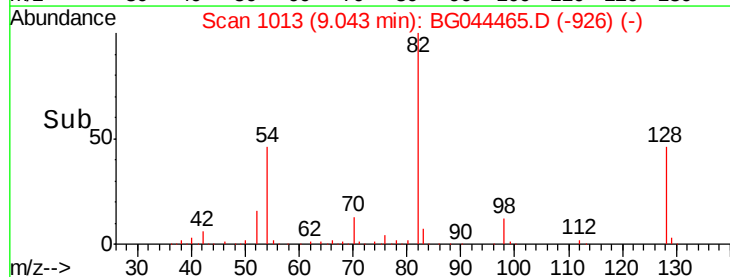
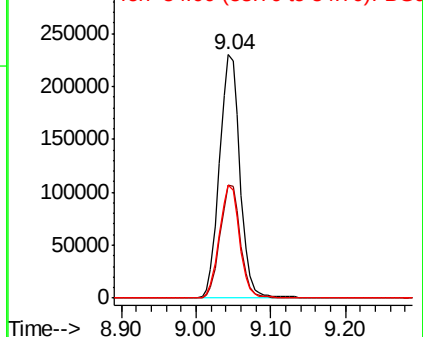


#23
Nitrobenzene-d5
Concen: 72.235 ng
RT: 9.04 min Scan# 1013
Delta R.T. -0.02 min
Lab File: BG044465.D
Acq: 18 Feb 2020 2:49

Tgt Ion: 82	Resp:	440630
Ion	Ratio	Lower Upper
82	100	
128	46.3	36.5 54.7
54	46.3	38.6 58.0



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





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.53 min Scan# 1947

Delta R.T. -0.01 min

Lab File: BG044465.D

Acq: 18 Feb 2020 2:49

Instrument :

BNA_G

ClientSampleId :

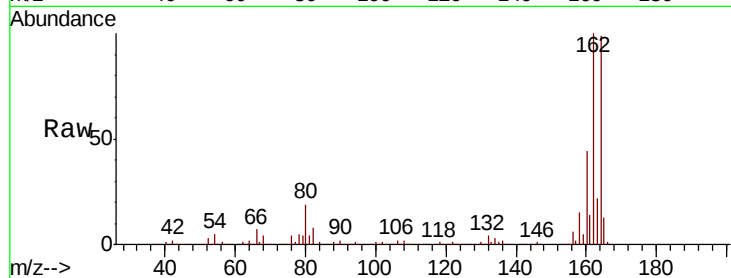
Tot Ion:164 Resp: 206602

Ion Ratio Lower Upper

164 100

162 100.9 80.7 121.1

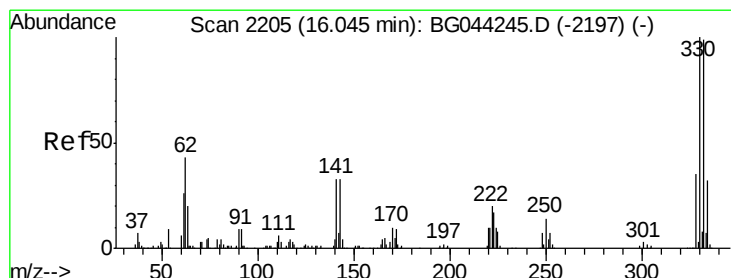
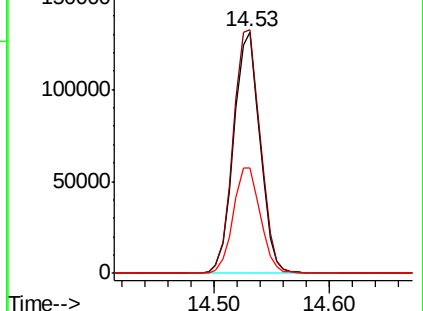
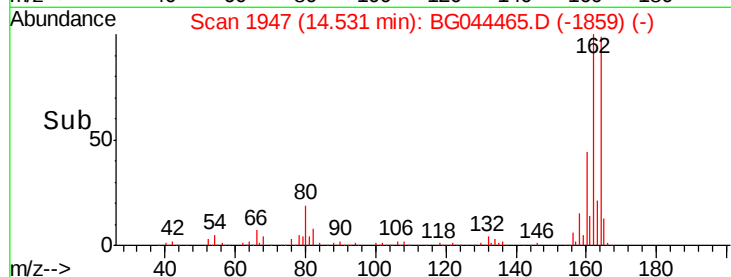
160 43.9 35.3 52.9



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 108.053 ng

RT: 16.02 min Scan# 2200

Delta R.T. -0.01 min

Lab File: BG044465.D

Acq: 18 Feb 2020 2:49

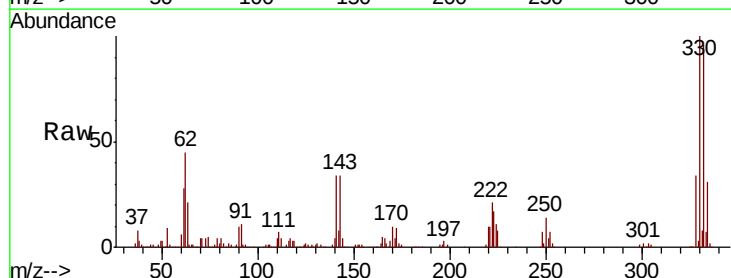
Tgt Ion:330 Resp: 262070

Ion Ratio Lower Upper

330 100

332 96.5 77.2 115.8

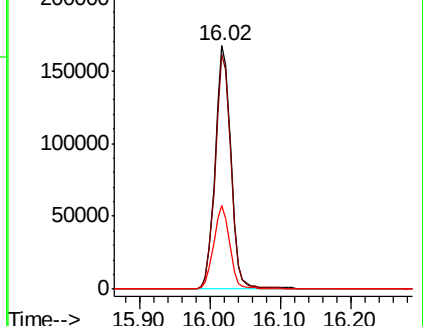
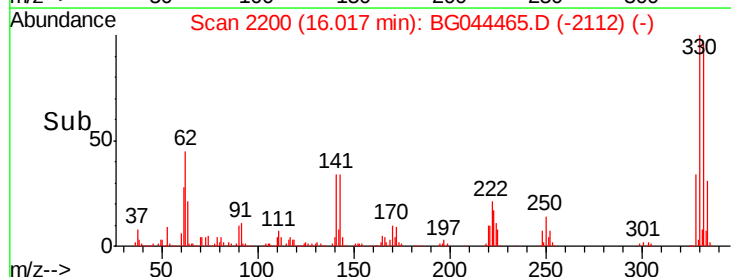
141 34.7 28.3 42.5

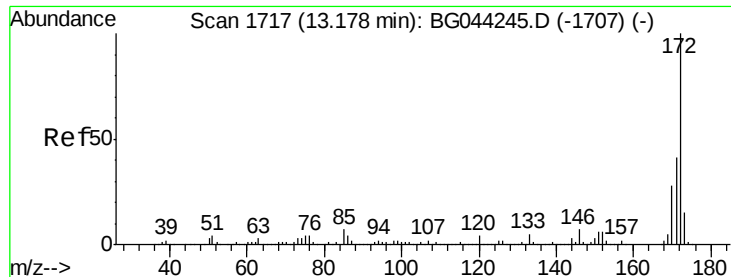


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

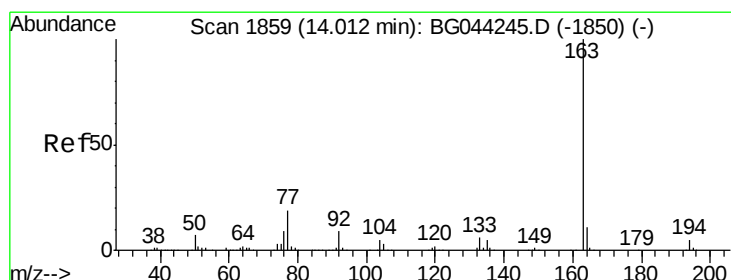
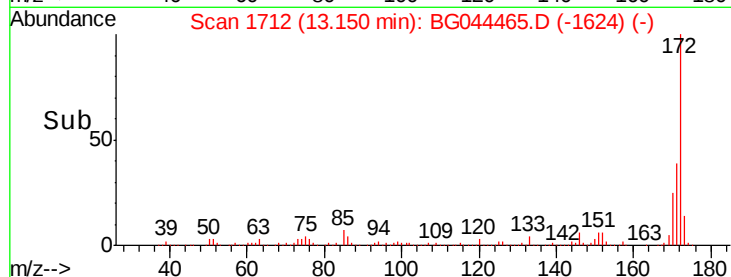
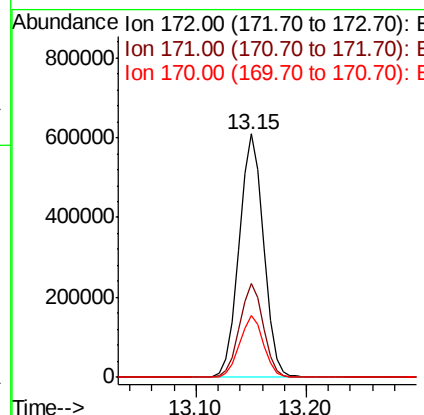
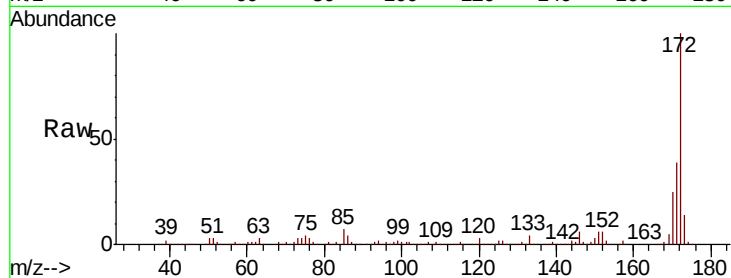




#45
2-Fluorobiphenyl
Concen: 77.105 ng
RT: 13.15 min Scan# 1712
Delta R.T. -0.01 min
Lab File: BG044465.D
Acq: 18 Feb 2020 2:49

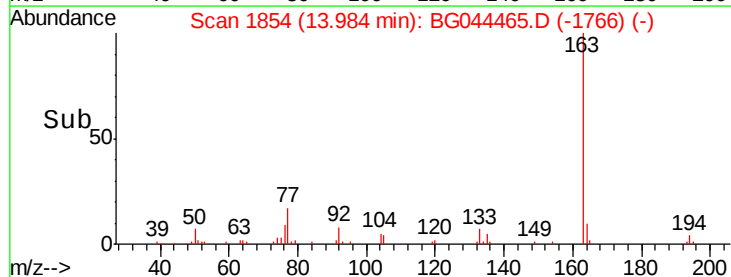
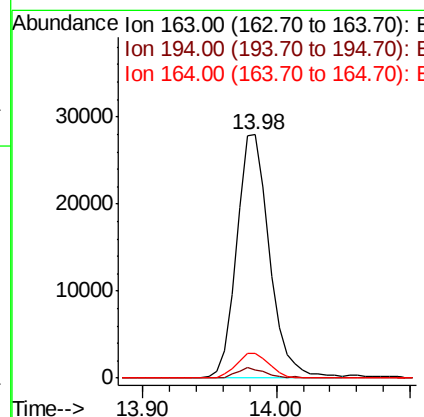
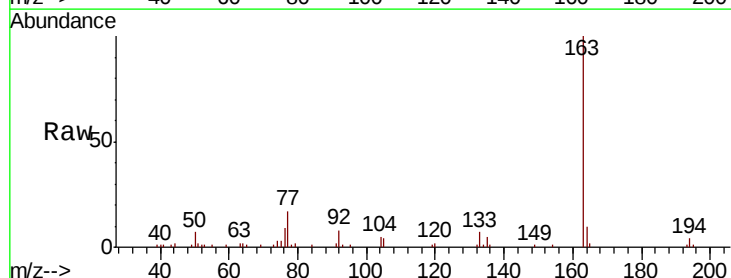
Instrument :
BNA_G
ClientSampleId :

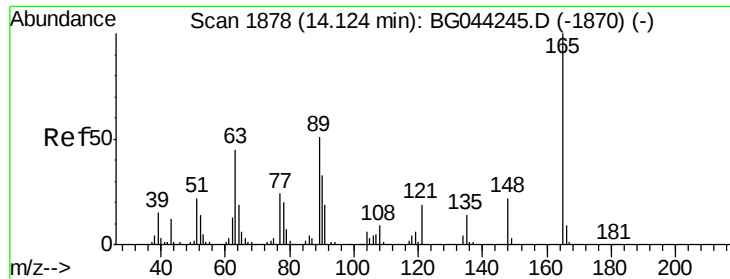
Tot Ion	Ratio	Lower	Upper
172	100		
171	38.6	32.9	49.3
170	25.4	22.0	33.0



#50
Dimethylphthalate
Concen: 3.217 ng
RT: 13.98 min Scan# 1854
Delta R.T. -0.01 min
Lab File: BG044465.D
Acq: 18 Feb 2020 2:49

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.6	3.6	5.4#
164	9.9	8.7	13.1

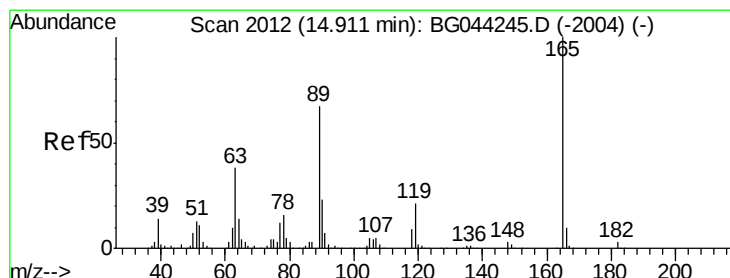
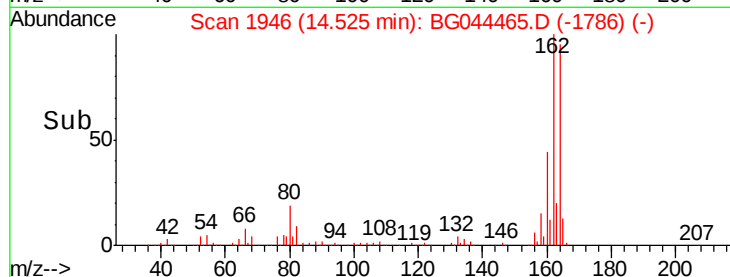
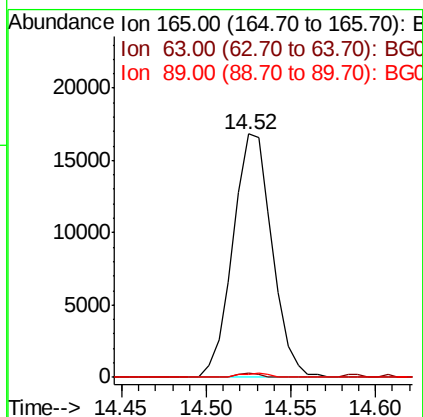
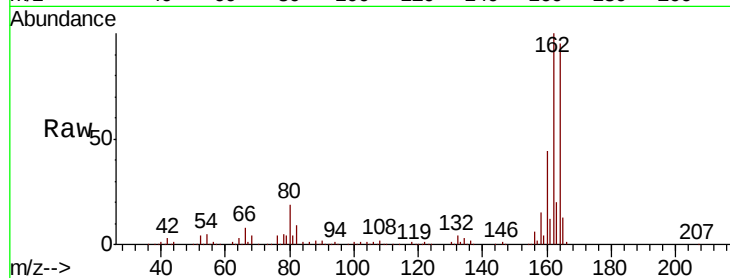




#51
 2,6-Dinitrotoluene
 Concen: 8.184 ng
 RT: 14.52 min Scan# 1946
 Delta R.T. 0.41 min
 Lab File: BG044465.D
 Acq: 18 Feb 2020 2:49

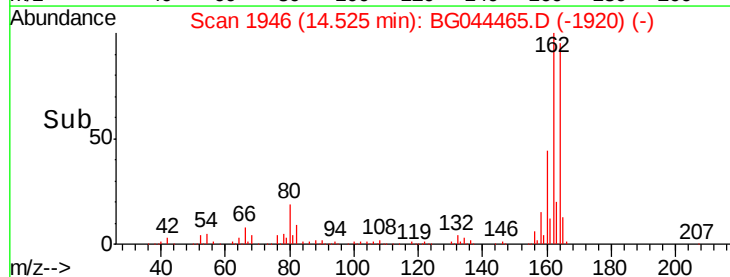
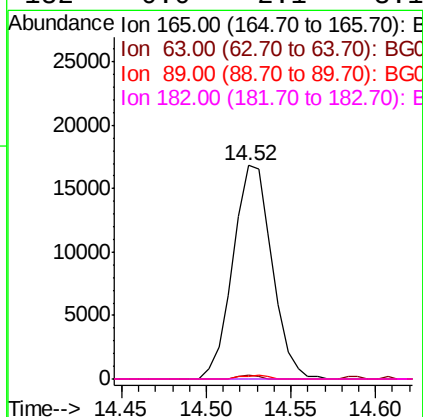
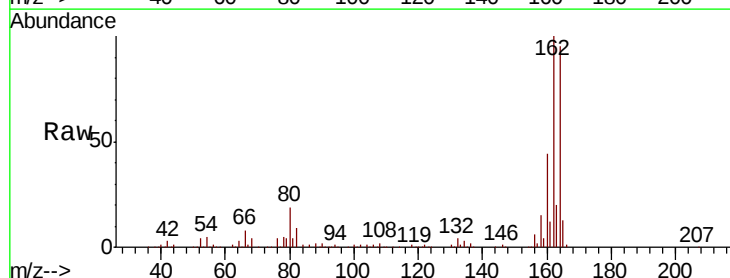
Instrument :
 BNA_G
 ClientSampleId :

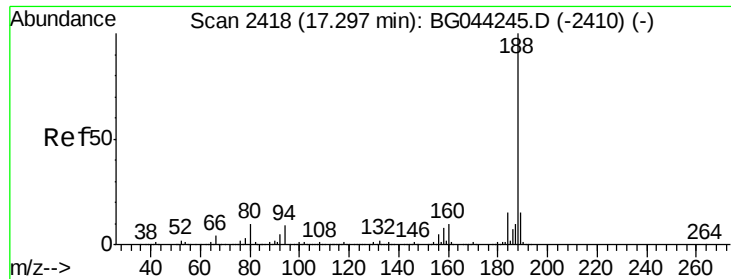
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.9	38.7	58.1#
89	1.5	40.4	60.6#



#57
 2,4-Dinitrotoluene
 Concen: 5.839 ng
 RT: 14.52 min Scan# 1946
 Delta R.T. -0.38 min
 Lab File: BG044465.D
 Acq: 18 Feb 2020 2:49

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.9	30.3	45.5#
89	1.5	53.4	80.2#
182	0.0	2.1	3.1#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.27 min Scan# 2414

Delta R.T. -0.01 min

Lab File: BG044465.D

Acq: 18 Feb 2020 2:49

Instrument :

BNA_G

ClientSampleId :

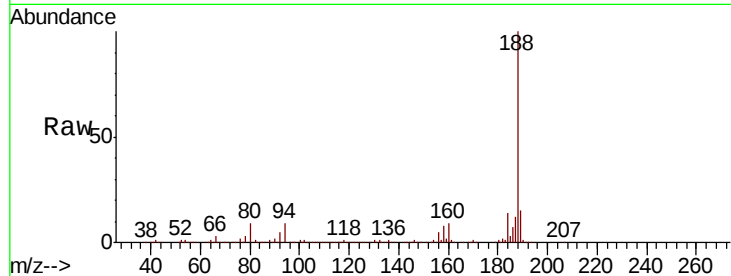
Tot Ion:188 Resp: 440486

Ion Ratio Lower Upper

188 100

94 8.8 7.4 11.2

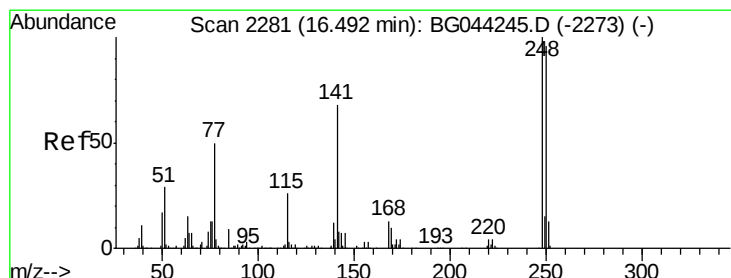
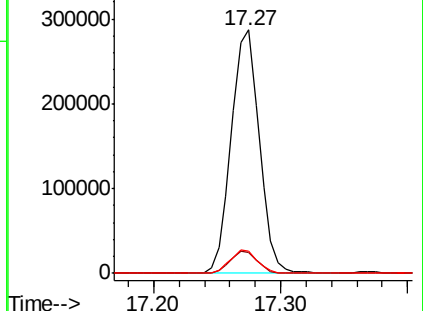
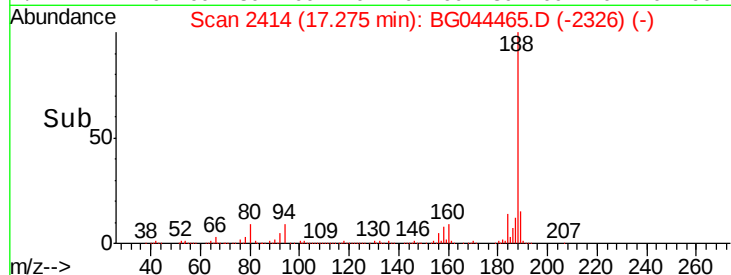
80 9.2 7.7 11.5



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



#67

4-Bromophenyl-phenylether

Concen: 3.668 ng

RT: 16.02 min Scan# 2200

Delta R.T. -0.46 min

Lab File: BG044465.D

Acq: 18 Feb 2020 2:49

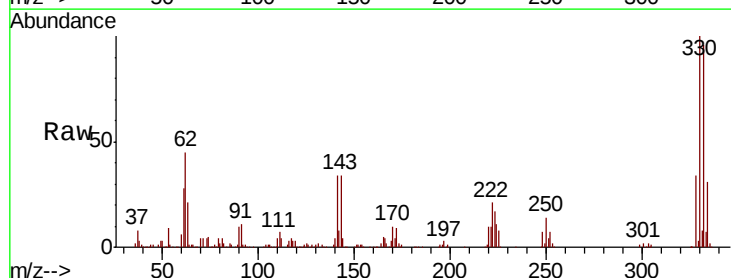
Tgt Ion:248 Resp: 17604

Ion Ratio Lower Upper

248 100

250 197.5 76.6 114.8#

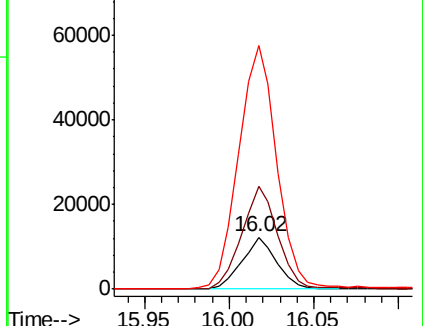
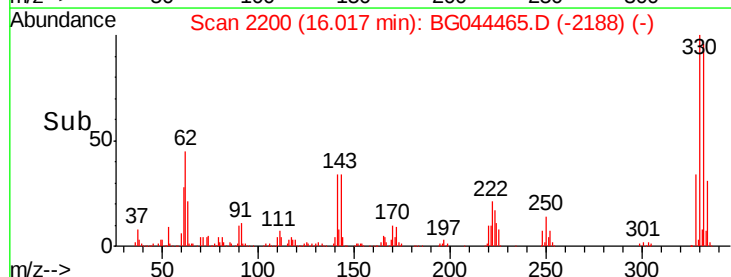
141 469.0 54.7 82.1#

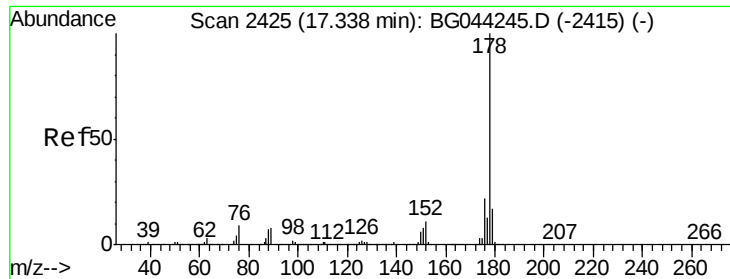


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

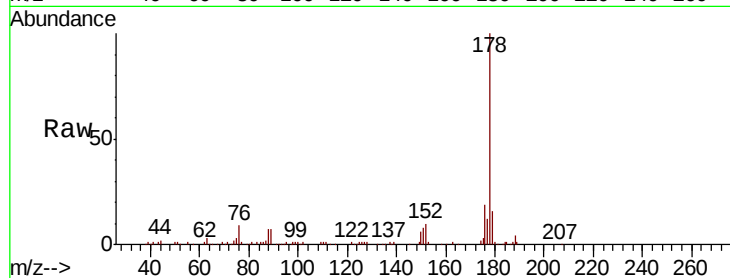




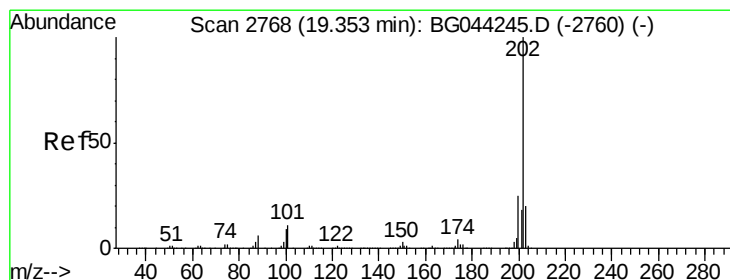
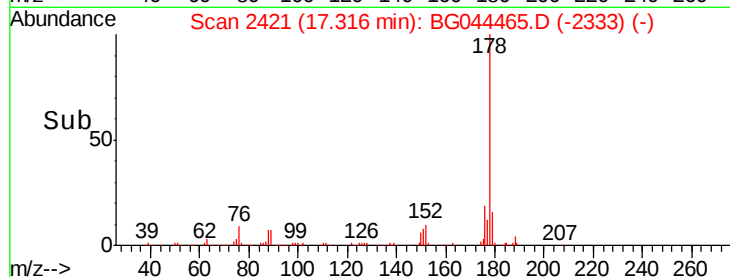
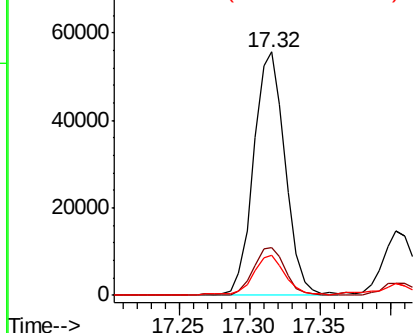
#71
Phenanthrene
Concen: 4.103 ng
RT: 17.32 min Scan# 2421
Delta R.T. -0.01 min
Lab File: BG044465.D
Acq: 18 Feb 2020 2:49

Instrument :
BNA_G
ClientSampleId :

Tot Ion:178 Resp: 87511
Ion Ratio Lower Upper
178 100
176 19.4 17.7 26.5
179 16.2 13.7 20.5

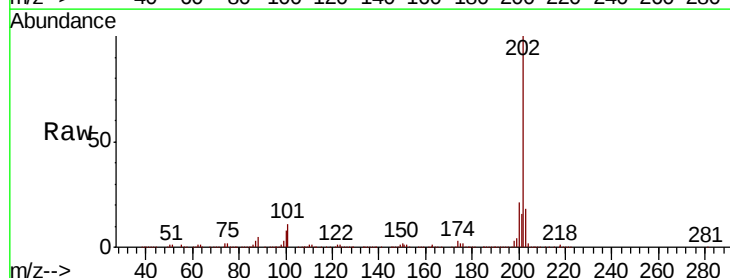


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

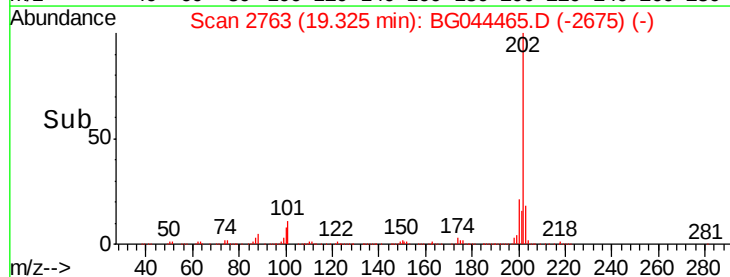
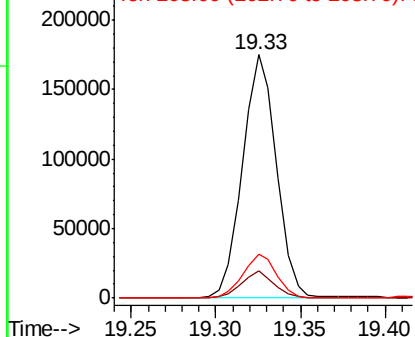


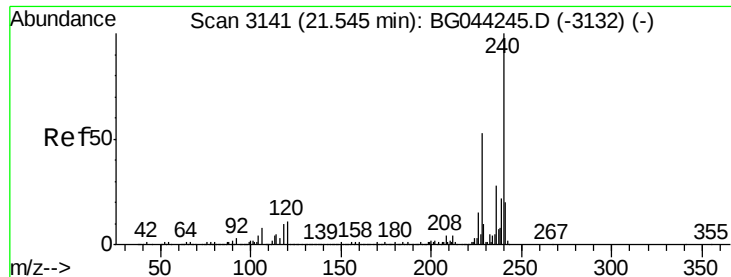
#75
Fluoranthene
Concen: 9.863 ng
RT: 19.33 min Scan# 2763
Delta R.T. -0.01 min
Lab File: BG044465.D
Acq: 18 Feb 2020 2:49

Tgt Ion:202 Resp: 243369
Ion Ratio Lower Upper
202 100
101 11.0 0.0 31.3
203 18.3 0.0 39.9



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

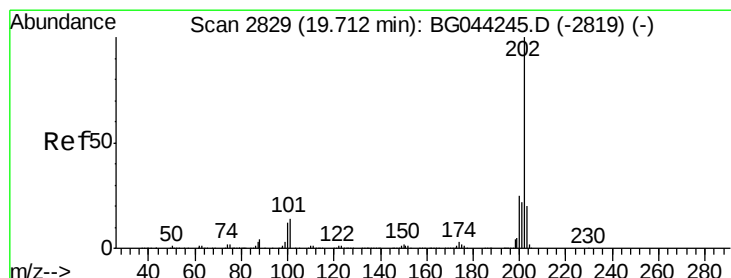
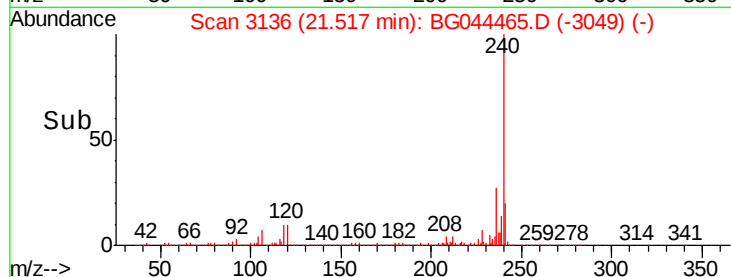
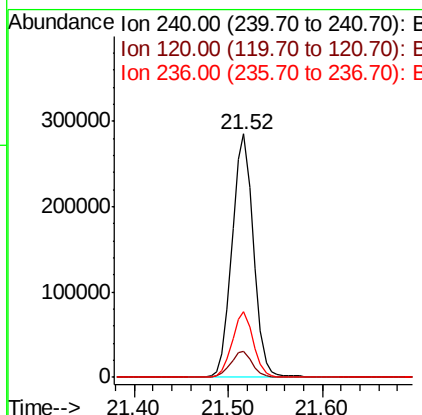
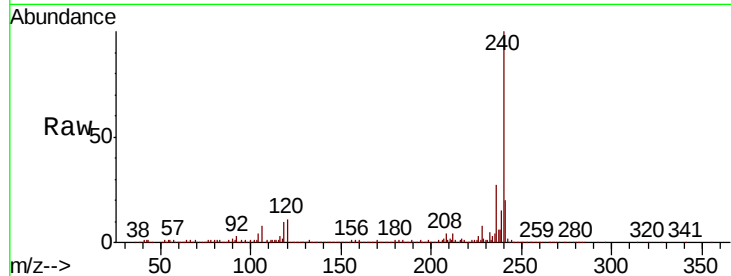




#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 21.52 min Scan# 3136
 Delta R.T. -0.02 min
 Lab File: BG044465.D
 Acq: 18 Feb 2020 2:49

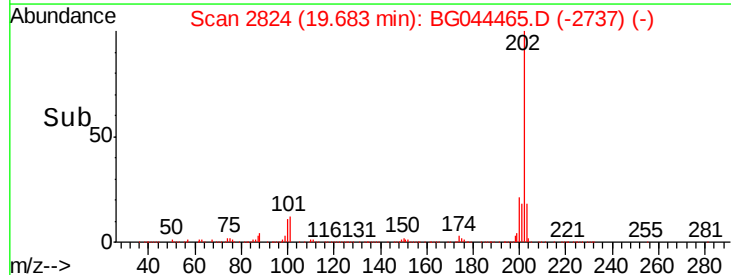
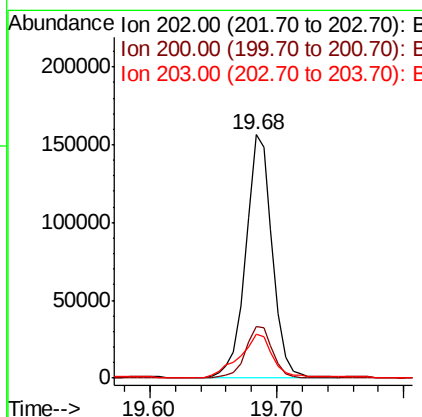
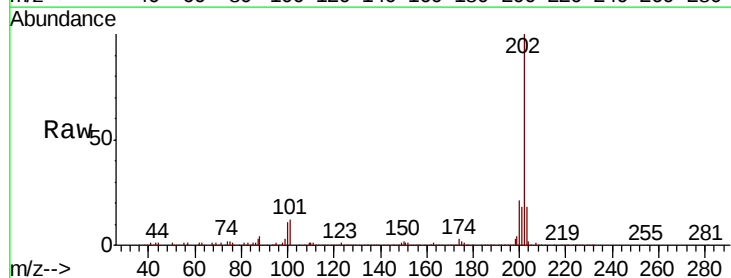
Instrument :
 BNA_G
 ClientSampleId :

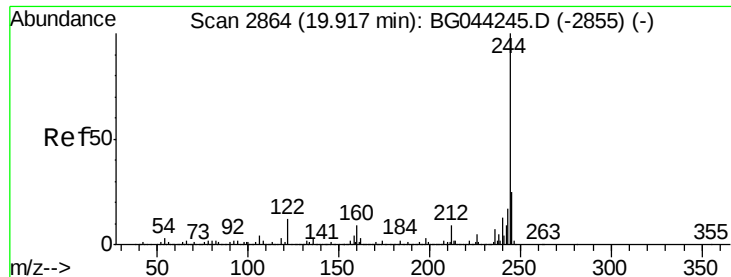
Tot Ion	Ratio	Lower	Upper
240	100		
120	10.6	8.4	12.6
236	27.2	22.1	33.1



#78
 Pyrene
 Concen: 7.865 ng
 RT: 19.68 min Scan# 2824
 Delta R.T. -0.02 min
 Lab File: BG044465.D
 Acq: 18 Feb 2020 2:49

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.2	20.0	30.0
203	18.2	16.2	24.2





#79

Terphenyl-d14

Concen: 64.018 ng

RT: 19.89 min Scan# 2859

Delta R.T. -0.01 min

Lab File: BG044465.D

Acq: 18 Feb 2020 2:49

Instrument :

BNA_G

ClientSampled :

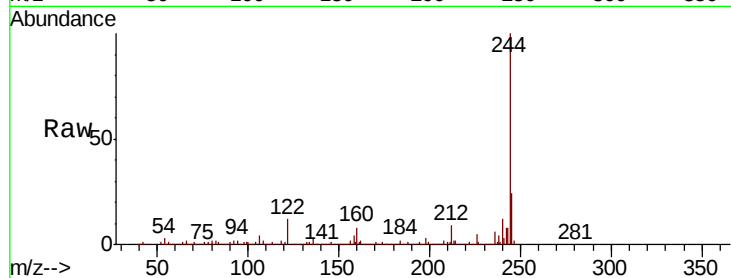
Tot Ion:244 Resp: 1396544

Ion Ratio Lower Upper

244 100

212 8.7 7.4 11.2

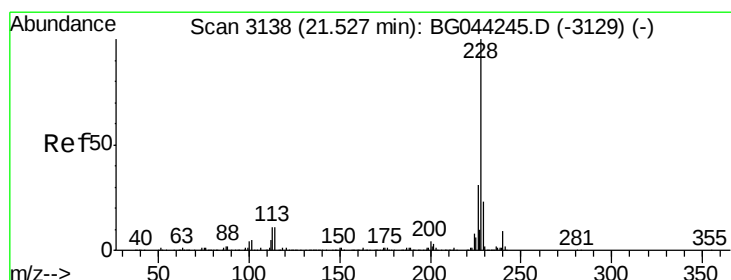
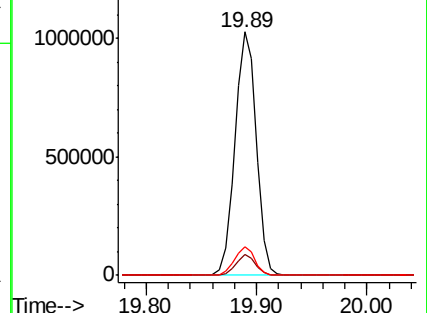
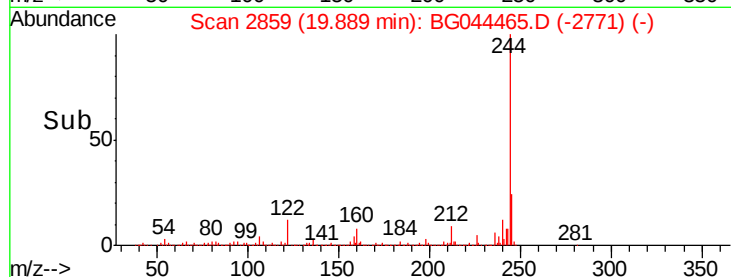
122 11.6 9.8 14.6



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



#81

Benzo(a)anthracene

Concen: 5.488 ng

RT: 21.50 min Scan# 3133

Delta R.T. -0.01 min

Lab File: BG044465.D

Acq: 18 Feb 2020 2:49

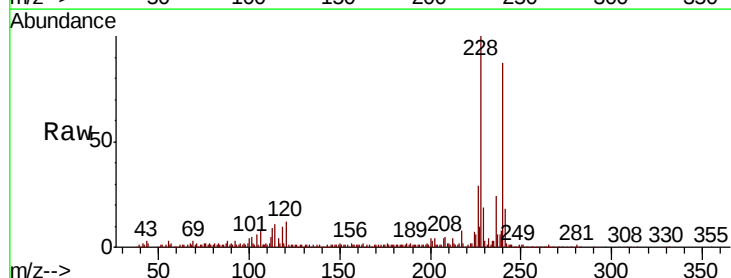
Tgt Ion:228 Resp: 151754

Ion Ratio Lower Upper

228 100

226 28.7 24.7 37.1

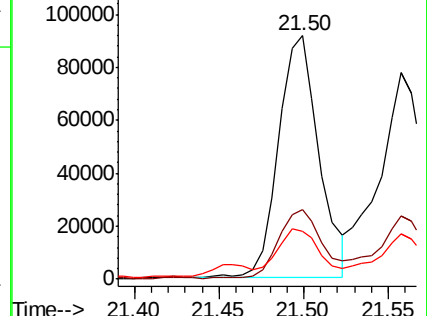
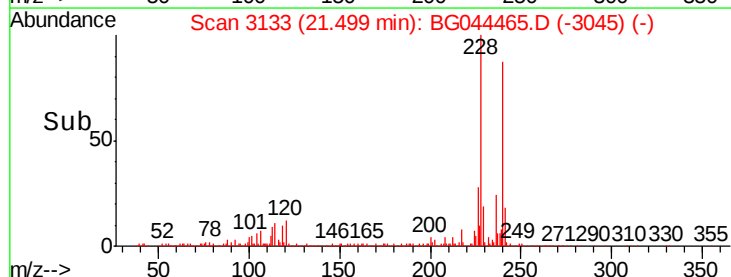
229 19.5 18.2 27.4

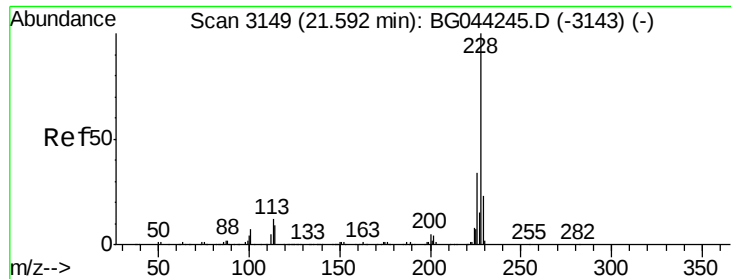


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

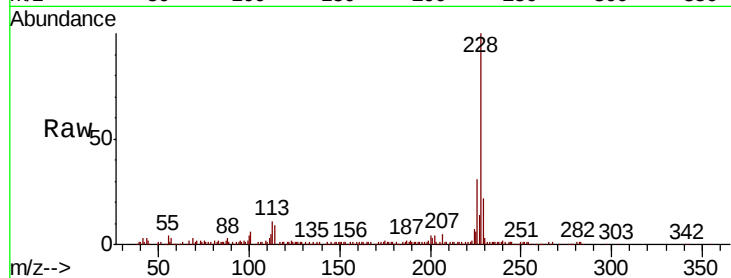




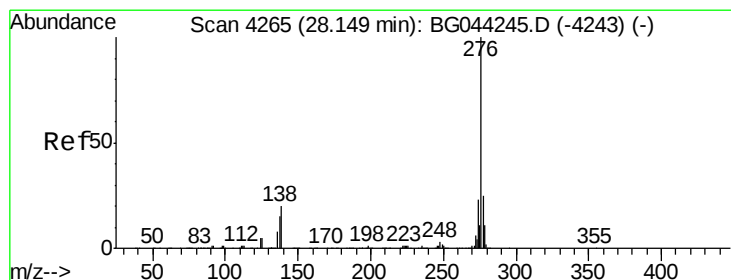
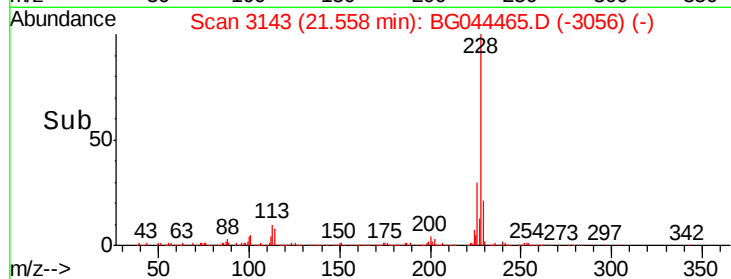
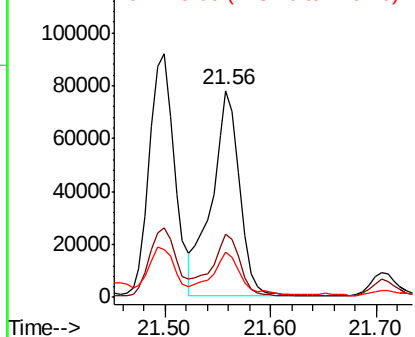
#83
Chrysene
Concen: 5.340 ng
RT: 21.56 min Scan# 3143
Delta R.T. -0.02 min
Lab File: BG044465.D
Acq: 18 Feb 2020 2:49

Instrument :
BNA_G
ClientSampleId :

Tot Ion:228 Resp: 142735
Ion Ratio Lower Upper
228 100
226 30.7 27.1 40.7
229 21.7 17.9 26.9

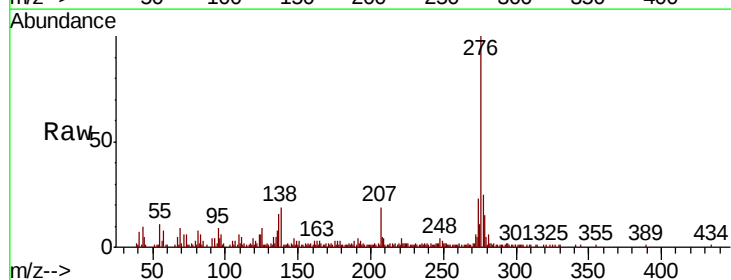


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

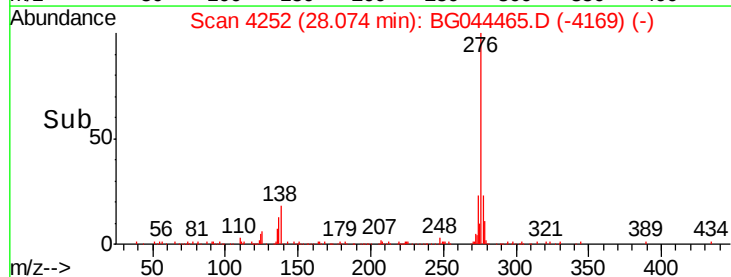
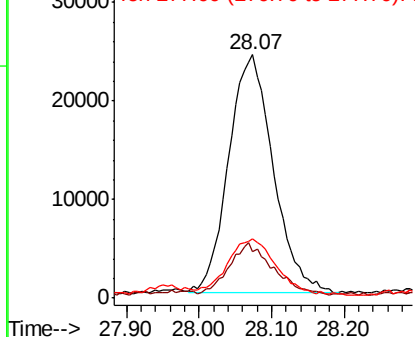


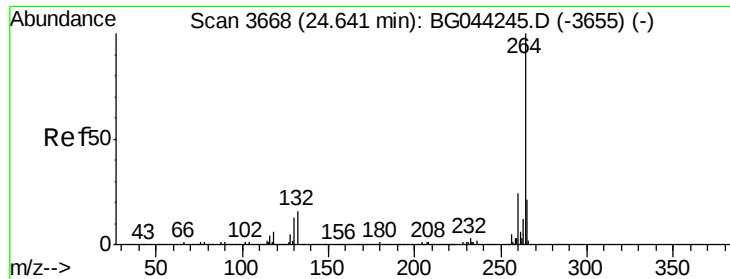
#86
Indeno(1,2,3-cd)pyrene
Concen: 2.957 ng
RT: 28.07 min Scan# 4252
Delta R.T. -0.04 min
Lab File: BG044465.D
Acq: 18 Feb 2020 2:49

Tgt Ion:276 Resp: 103119
Ion Ratio Lower Upper
276 100
138 21.6 19.4 29.0
277 24.6 21.0 31.6



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





#87

Pervlene-d12

Concen: 20.000 ng

RT: 24.60 min Scan# 3660

Delta R.T. -0.03 min

Lab File: BG044465.D

Acq: 18 Feb 2020 2:49

Instrument :

BNA_G

ClientSampleId :

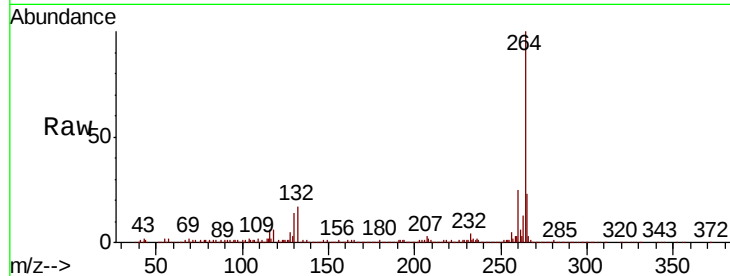
Tot Ion:264 Resp: 473411

Ion Ratio Lower Upper

264 100

260 25.3 19.4 29.2

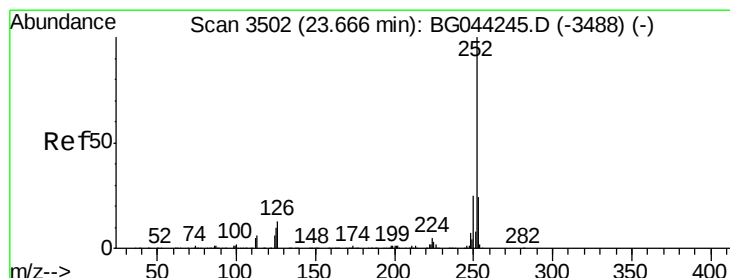
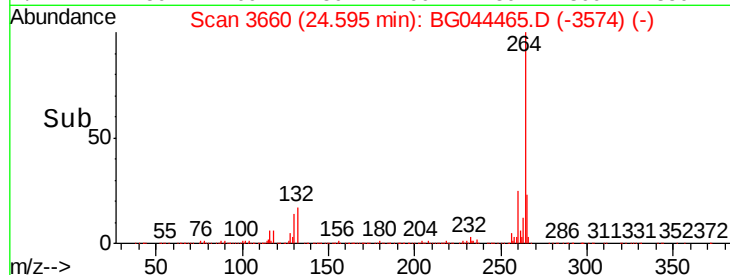
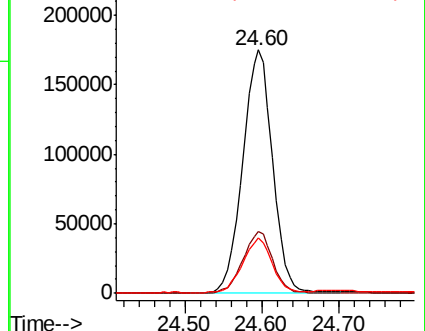
265 22.7 16.7 25.1



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#88

Benzo(b)fluoranthene

Concen: 8.210 ng

RT: 23.62 min Scan# 3494

Delta R.T. -0.03 min

Lab File: BG044465.D

Acq: 18 Feb 2020 2:49

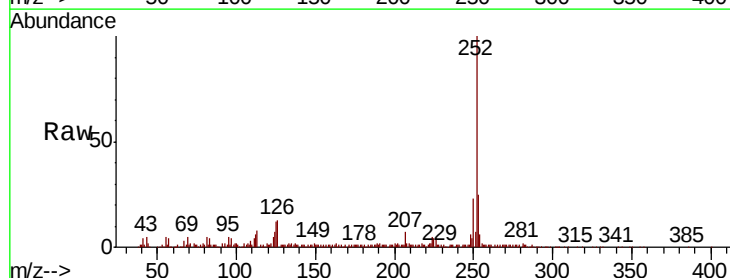
Tgt Ion:252 Resp: 223961

Ion Ratio Lower Upper

252 100

253 24.5 19.2 28.8

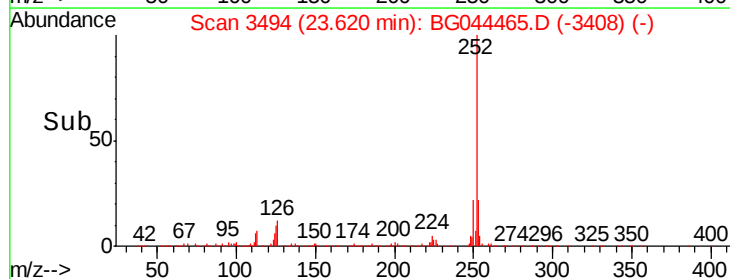
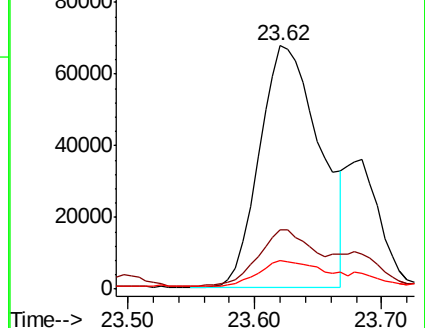
125 11.7 8.4 12.6

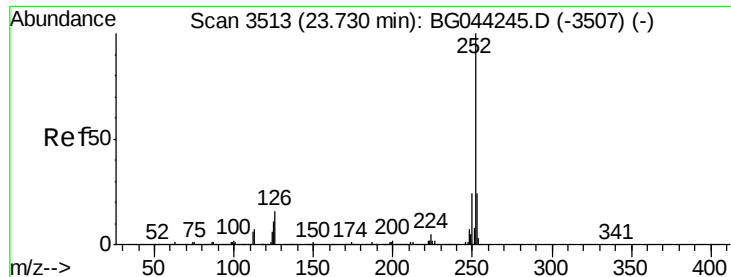


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 8.423 ng

RT: 23.62 min Scan# 3494

Delta R.T. -0.09 min

Lab File: BG044465.D

Acq: 18 Feb 2020 2:49

Instrument :

BNA_G

ClientSampleId :

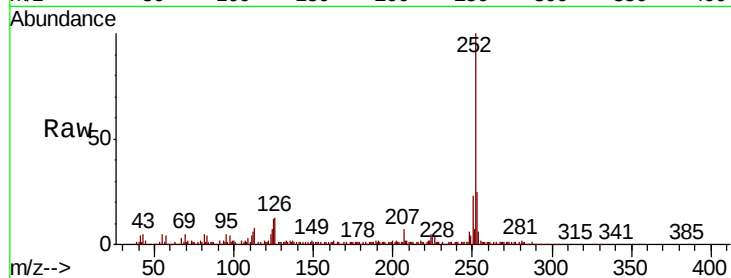
Tot Ion:252 Resp: 223961

Ion Ratio Lower Upper

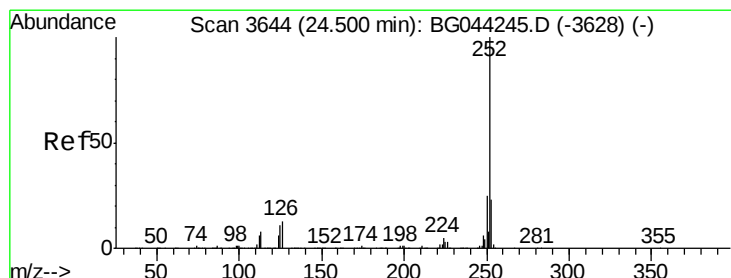
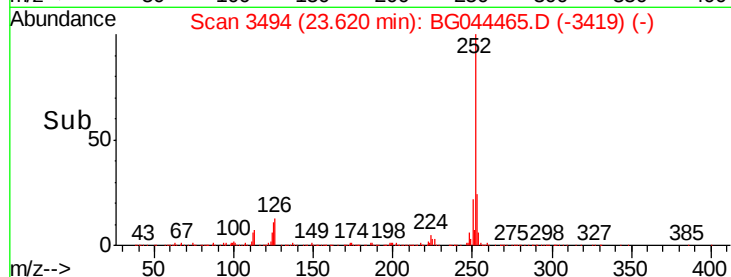
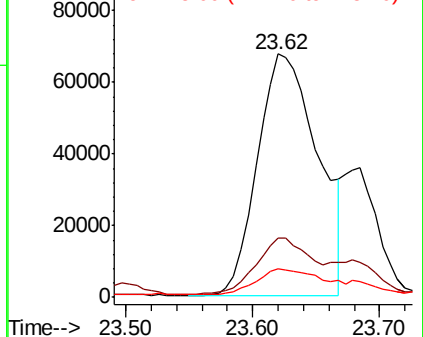
252 100

253 24.5 19.1 28.7

125 11.7 8.6 12.8



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



#90

Benzo(a)pyrene

Concen: 5.796 ng

RT: 24.45 min Scan# 3635

Delta R.T. -0.03 min

Lab File: BG044465.D

Acq: 18 Feb 2020 2:49

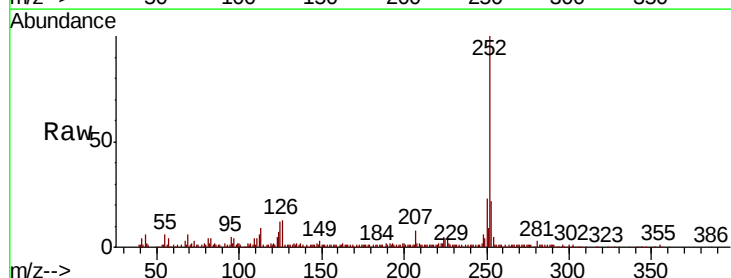
Tgt Ion:252 Resp: 149499

Ion Ratio Lower Upper

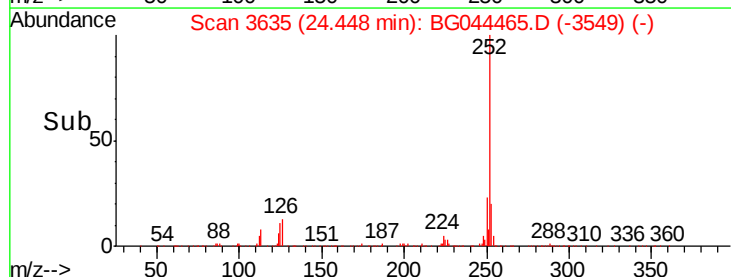
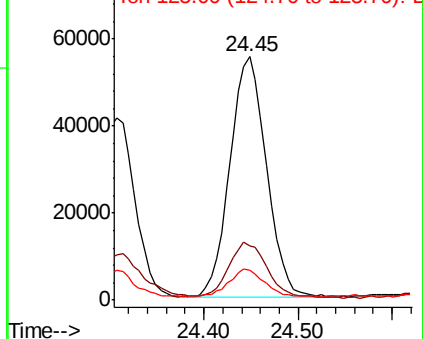
252 100

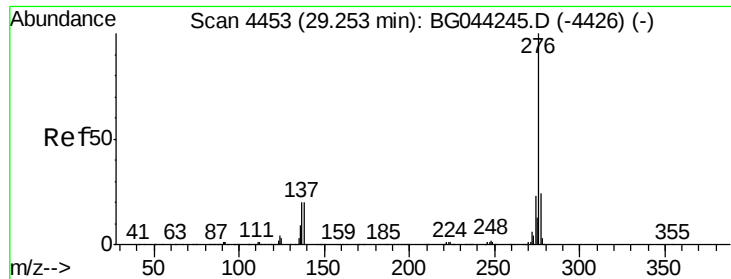
253 22.2 18.1 27.1

125 12.4 8.6 13.0



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





#92

Benzo(a,h,i)perylene

Concen: 3.939 ng

RT: 29.16 min Scan# 4437

Delta R.T. -0.04 min

Lab File: BG044465.D

Acq: 18 Feb 2020 2:49

Instrument :

BNA_G

ClientSampleId :

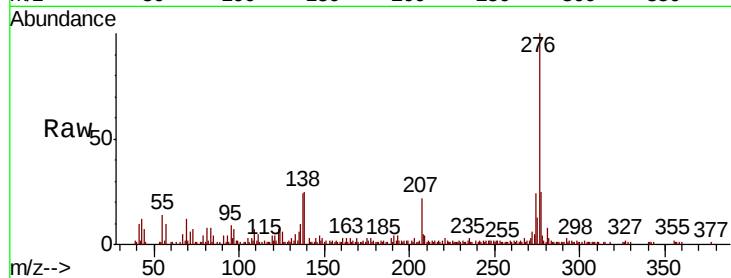
Tot Ion: 276 Resp: 100655

Ion Ratio Lower Upper

276 100

277 25.0 18.8 28.2

138 25.1 16.2 24.2#



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

