

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG021920\
 Data File : BG044510.D
 Acq On : 20 Feb 2020 4:35
 Operator : CG/JU
 Sample : L1547-23
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Feb 20 07:20:28 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	71426	20.00	ng	-0.02
21) Naphthalene-d8	10.69	136	295052	20.00	ng	-0.01
39) Acenaphthene-d10	14.53	164	181441	20.00	ng	-0.02
64) Phenanthrene-d10	17.27	188	397244	20.00	ng	-0.02
76) Chrysene-d12	21.52	240	373806	20.00	ng	-0.02
87) Perylene-d12	24.60	264	404746	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.47	112	425697	105.18	ng	0.00
7) Phenol-d6	7.07	99	561166	103.26	ng	-0.01
23) Nitrobenzene-d5	9.05	82	345259	66.06	ng	-0.02
42) 2,4,6-Tribromophenol	16.02	330	223472	104.92	ng	-0.01
45) 2-Fluorobiphenyl	13.15	172	749612	69.18	ng	-0.01
79) Terphenyl-d14	19.89	244	1086171	59.77	ng	-0.01

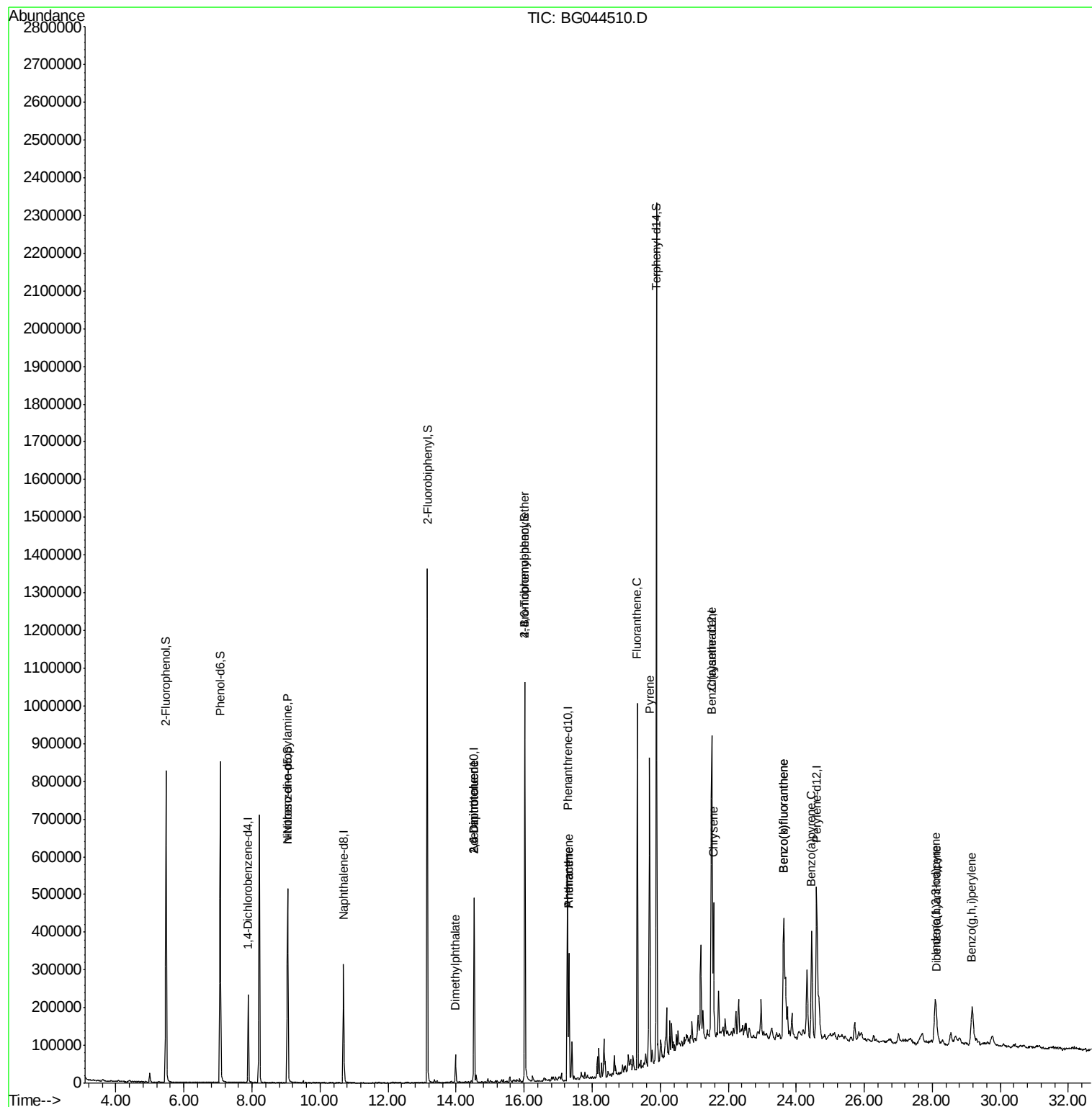
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	9.05	70	44767	12.360	ng	# 75
50) Dimethylphthalate	13.98	163	55740	4.274	ng	97
51) 2,6-Dinitrotoluene	14.53	165	24505	8.427	ng	# 30
57) 2,4-Dinitrotoluene	14.53	165	24505	6.012	ng	# 27
67) 4-Bromophenyl-phenylether	16.02	248	15306	3.537	ng	# 1
71) Phenanthrene	17.32	178	218118	11.339	ng	95
72) Anthracene	17.32	178	218118	11.469	ng	96
75) Fluoranthene	19.33	202	581007	26.110	ng	98
78) Pyrene	19.69	202	539424	22.470	ng	95
81) Benzo(a)anthracene	21.50	228	292664	12.704	ng	96
83) Chrysene	21.57	228	251453	11.292	ng	97
86) Indeno(1,2,3-cd)pyrene	28.09	276	209282	7.204	ng	93
88) Benzo(b)fluoranthene	23.63	252	384177	16.472	ng	99
89) Benzo(k)fluoranthene	23.63	252	384177	16.901	ng	99
90) Benzo(a)pyrene	24.46	252	302248	13.706	ng	99
91) Dibenzo(a,h)anthracene	28.13	278	45422	2.081	ng	97
92) Benzo(a,h,i)perylene	29.17	276	234544	10.736	ng	97

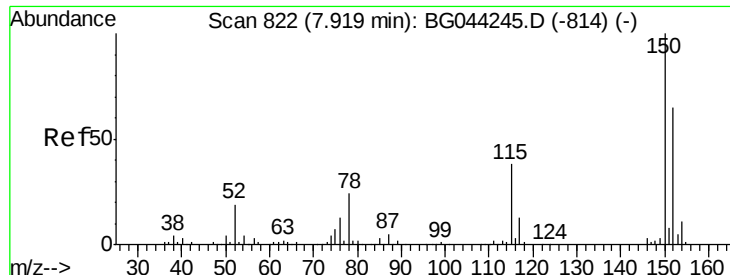
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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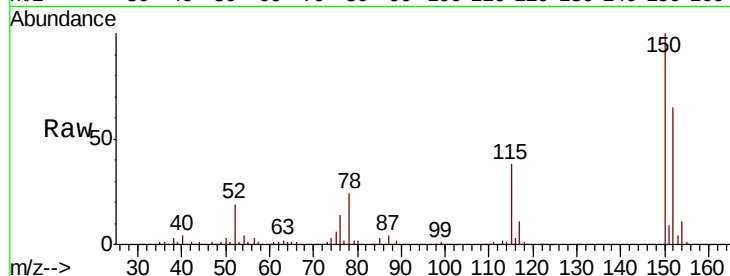


#1

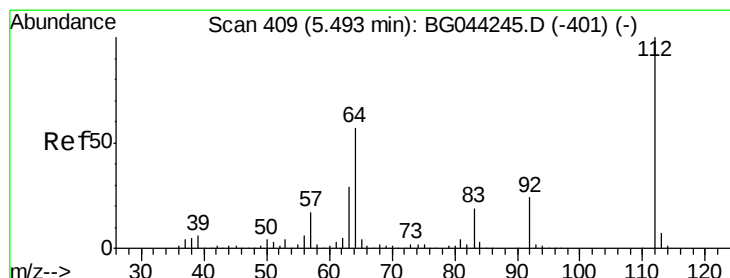
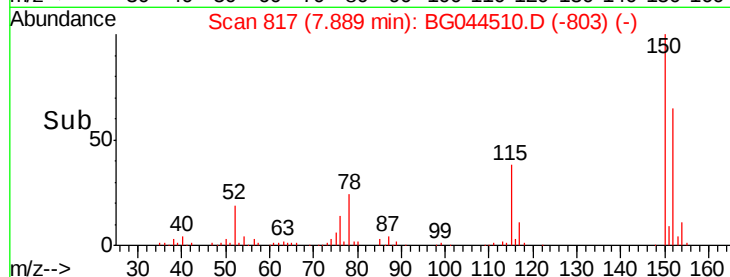
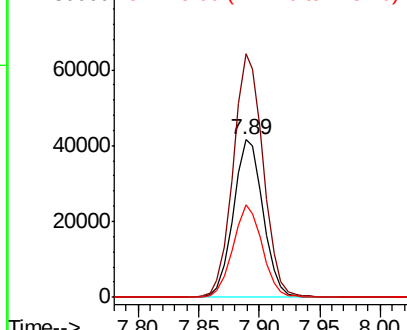
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.89 min Scan# 817
Delta R.T. -0.02 min
Lab File: BG044510.D
Acq: 20 Feb 2020 4:35

Instrument :
BNA_G
ClientSampleId :

Tot Ion:152 Resp: 71426
Ion Ratio Lower Upper
152 100
150 154.7 122.6 183.8
115 59.0 46.0 69.0



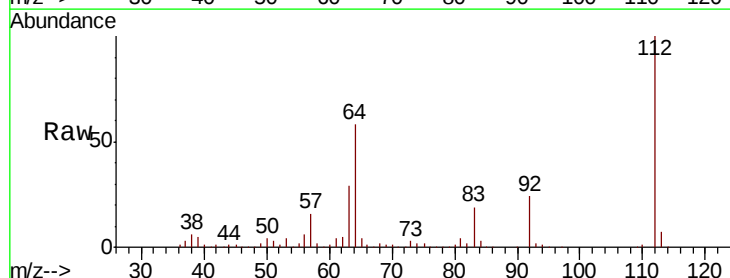
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



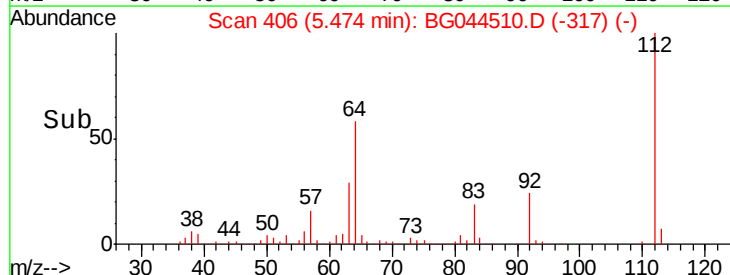
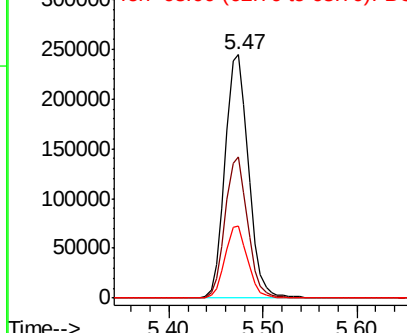
#5

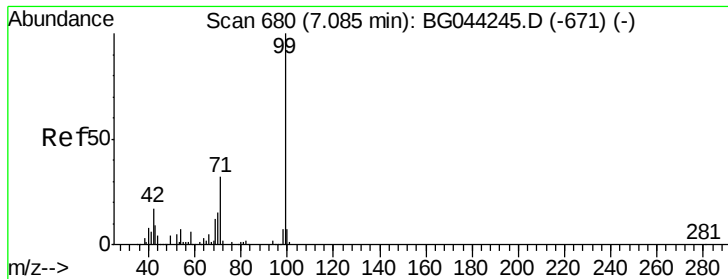
2-Fluorophenol
Concen: 105.184 ng
RT: 5.47 min Scan# 406
Delta R.T. -0.00 min
Lab File: BG044510.D
Acq: 20 Feb 2020 4:35

Tgt Ion:112 Resp: 425697
Ion Ratio Lower Upper
112 100
64 57.8 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: 103.256 ng

RT: 7.07 min Scan# 677

Delta R.T. -0.01 min

Lab File: BG044510.D

Acq: 20 Feb 2020 4:35

Instrument :

BNA_G

ClientSampleId :

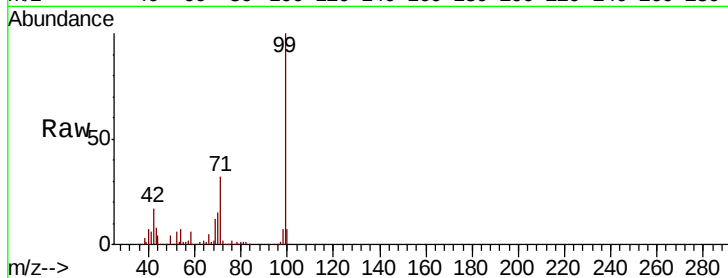
Tot Ion: 99 Resp: 561166

Ion Ratio Lower Upper

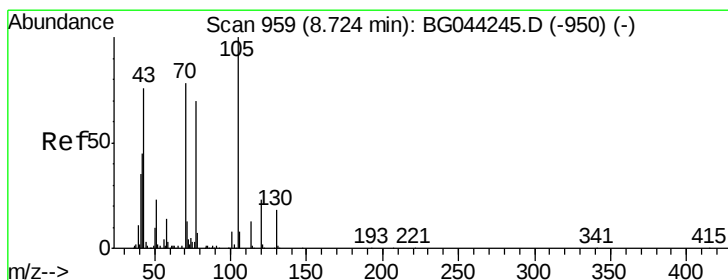
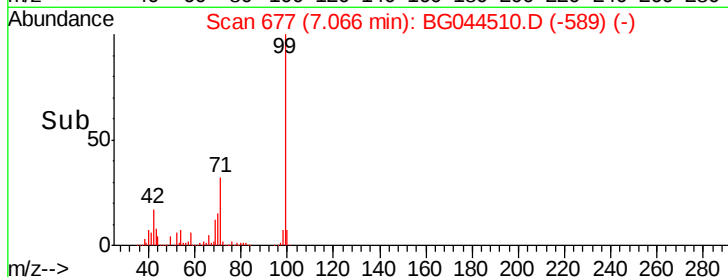
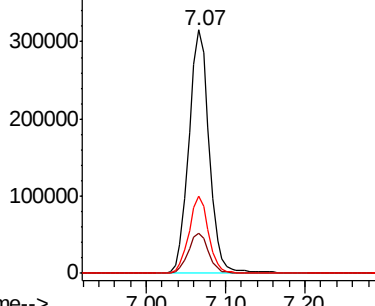
99 100

42 16.6 13.8 20.6

71 31.5 25.5 38.3



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



#19

n-Nitroso-di-n-propylamine

Concen: 12.360 ng

RT: 9.05 min Scan# 1014

Delta R.T. 0.34 min

Lab File: BG044510.D

Acq: 20 Feb 2020 4:35

Tgt Ion: 70 Resp: 44767

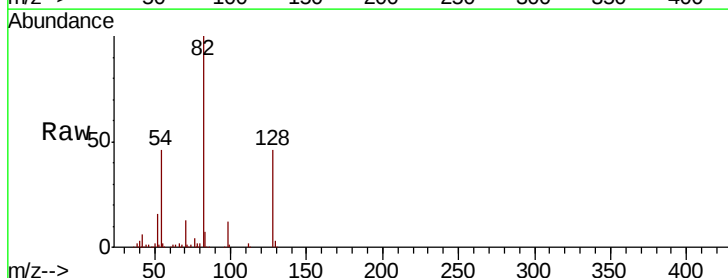
Ion Ratio Lower Upper

70 100

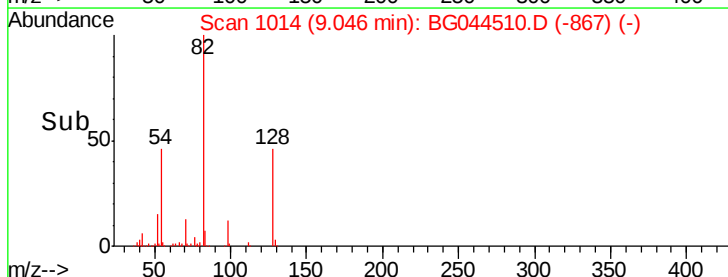
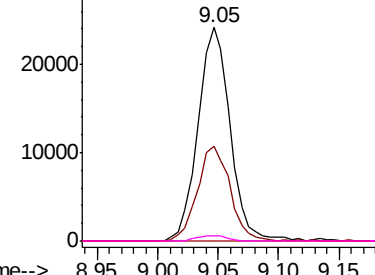
42 44.3 46.2 69.2#

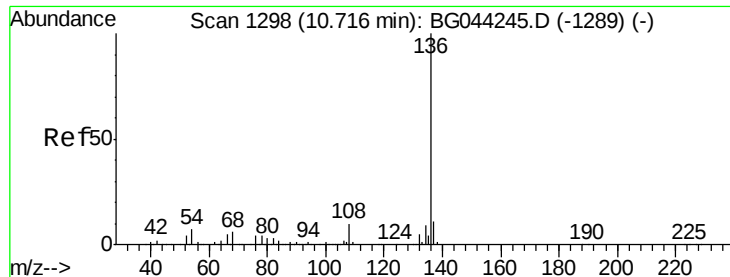
101 0.0 8.4 12.6#

130 2.3 17.8 26.8#



Abundance Ion 70.00 (69.70 to 70.70): BGC
Ion 42.00 (41.70 to 42.70): BGC
Ion 101.00 (100.70 to 101.70): BGC
Ion 130.00 (129.70 to 130.70): BGC

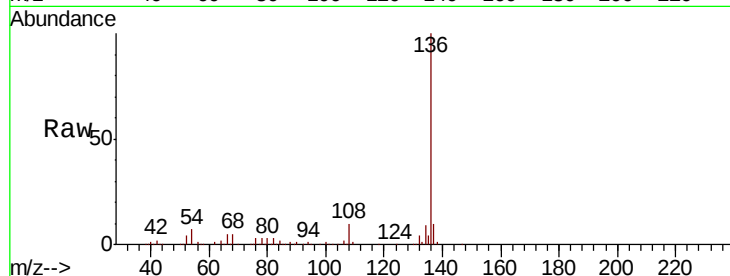




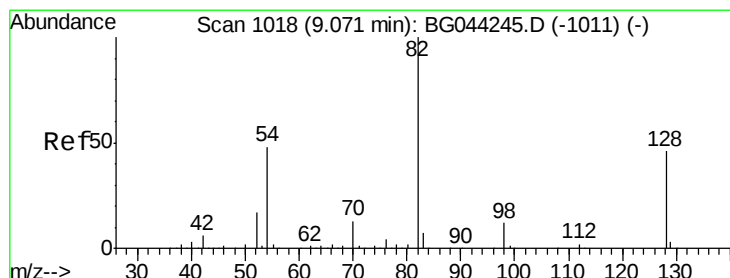
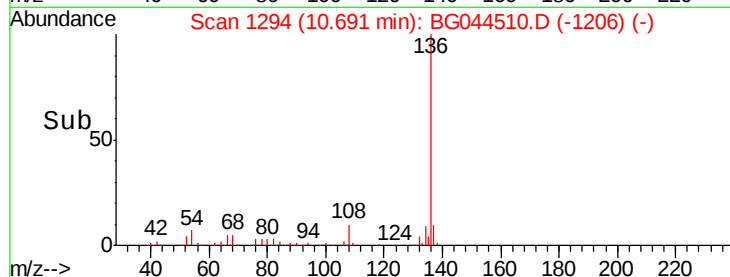
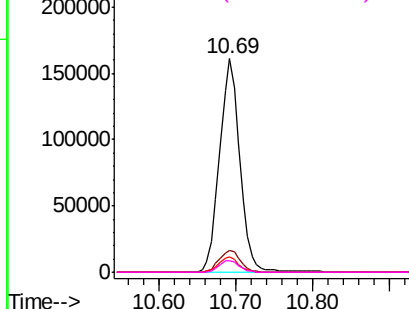
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.69 min Scan# 1294
Delta R.T. -0.01 min
Lab File: BG044510.D
Acq: 20 Feb 2020 4:35

Instrument :
BNA_G
ClientSampled :

Tot Ion:136	Resp:	295052
Ion Ratio	Lower	Upper
136	100	
137	10.1	8.8 13.2
54	7.4	5.8 8.8
68	5.4	4.6 6.8

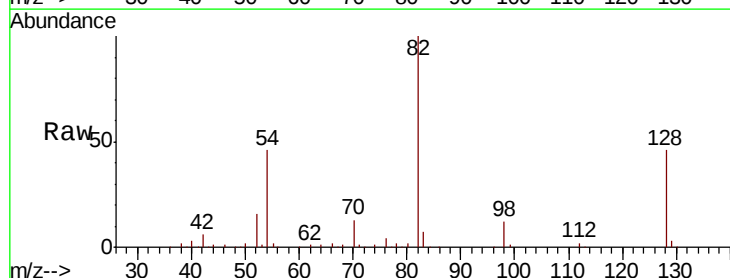


Abundance Ion 136.00 (135.70 to 136.70): E
250000
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BGC
Ion 68.00 (67.70 to 68.70): BGC

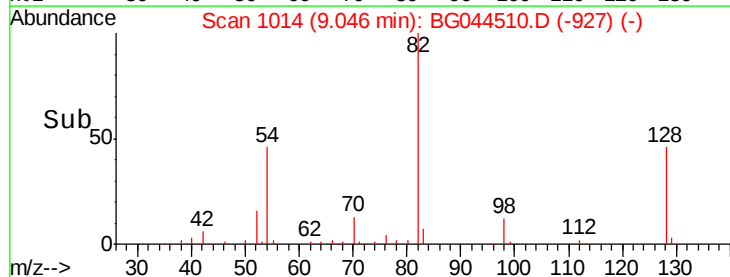
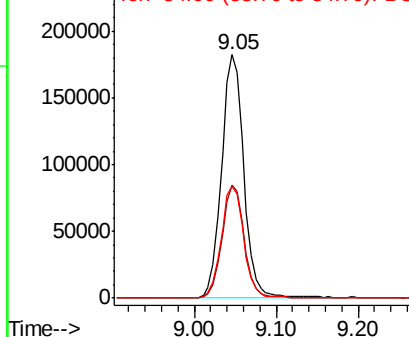


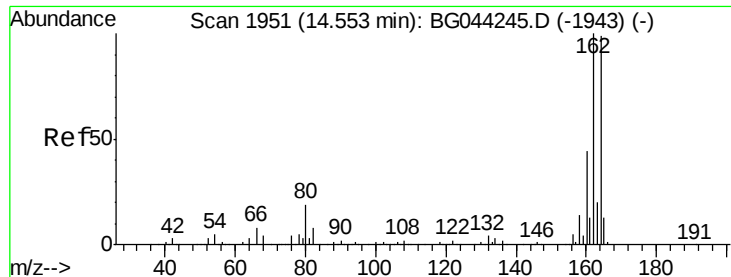
#23
Nitrobenzene-d5
Concen: 66.063 ng
RT: 9.05 min Scan# 1014
Delta R.T. -0.02 min
Lab File: BG044510.D
Acq: 20 Feb 2020 4:35

Tgt Ion: 82	Resp:	345259
Ion Ratio	Lower	Upper
82	100	
128	46.5	36.5 54.7
54	46.1	38.6 58.0



Abundance Ion 82.00 (81.70 to 82.70): BGC
250000
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. -0.02 min

Lab File: BG044510.D

Acq: 20 Feb 2020 4:35

Instrument :

BNA_G

ClientSampleId :

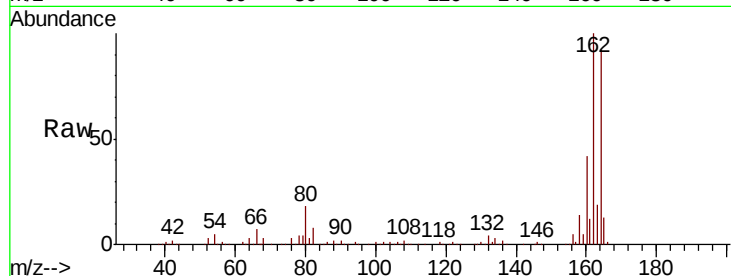
Tot Ion:164 Resp: 181441

Ion Ratio Lower Upper

164 100

162 109.0 80.7 121.1

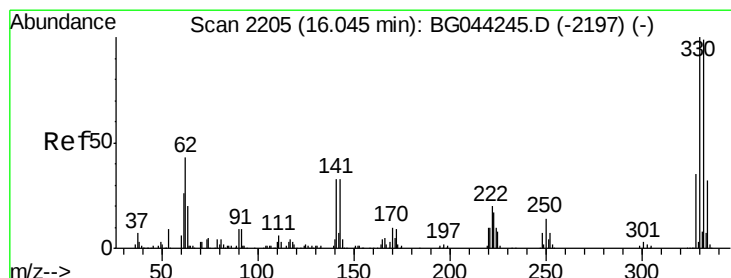
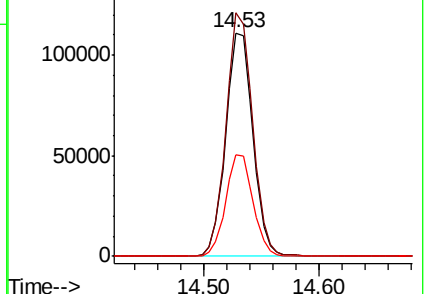
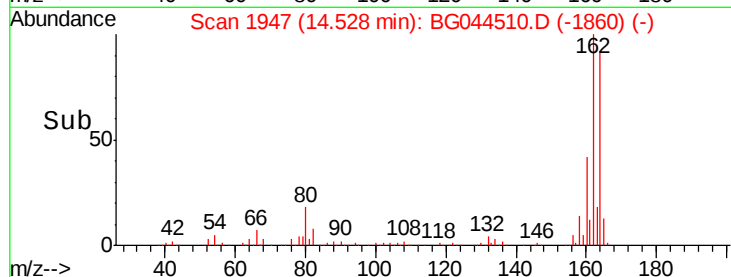
160 45.4 35.3 52.9



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: 104.916 ng

RT: 16.02 min Scan# 2201

Delta R.T. -0.01 min

Lab File: BG044510.D

Acq: 20 Feb 2020 4:35

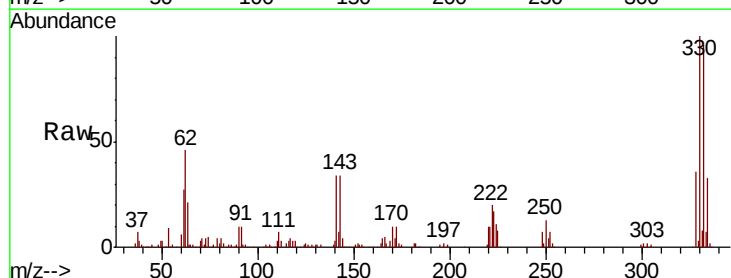
Tgt Ion:330 Resp: 223472

Ion Ratio Lower Upper

330 100

332 95.8 77.2 115.8

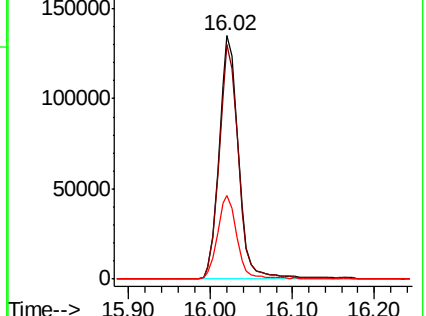
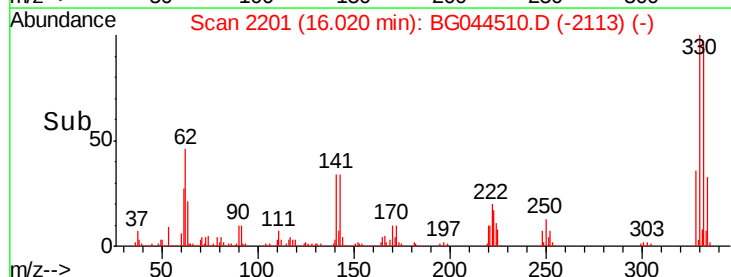
141 34.8 28.3 42.5

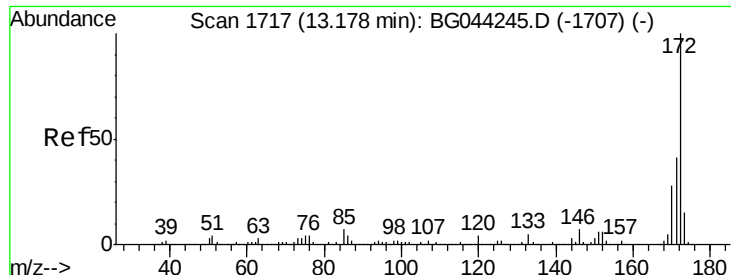


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

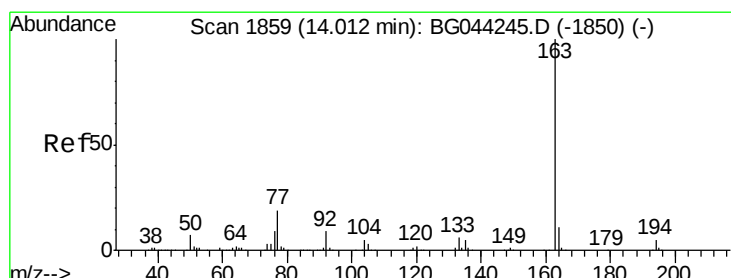
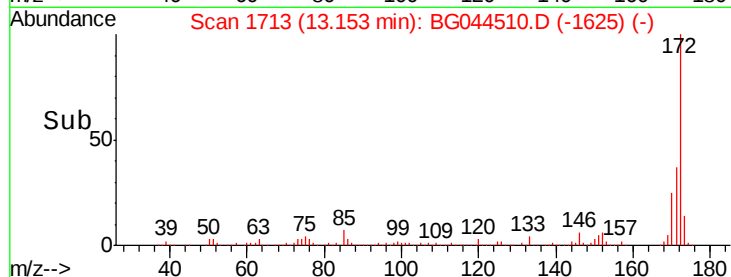
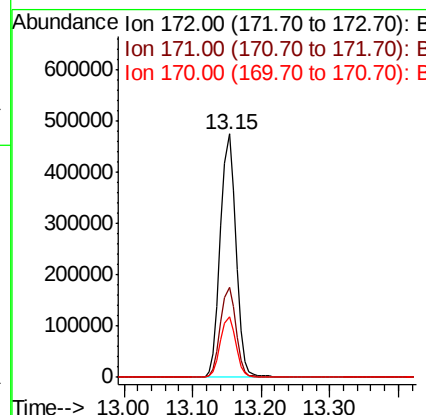
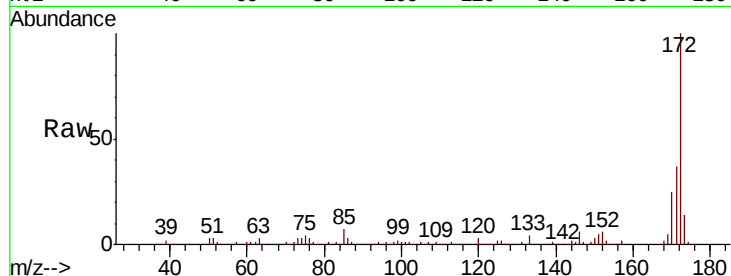




#45
 2-Fluorobiphenyl
 Concen: 69.183 ng
 RT: 13.15 min Scan# 1713
 Delta R.T. -0.01 min
 Lab File: BG044510.D
 Acq: 20 Feb 2020 4:35

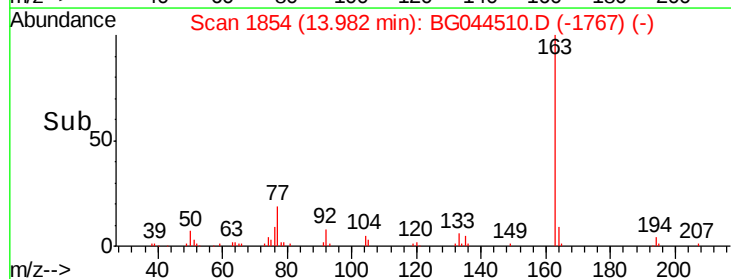
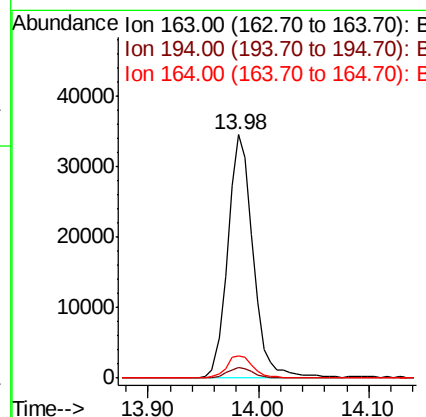
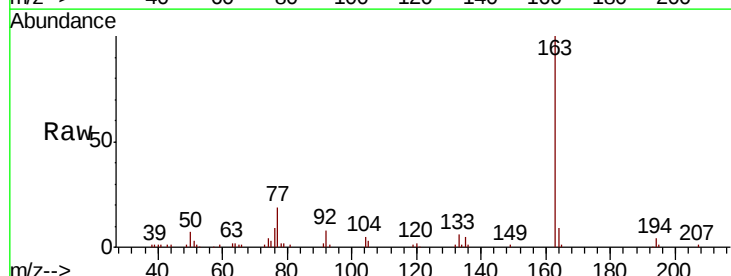
Instrument :
 BNA_G
 ClientSampleId :

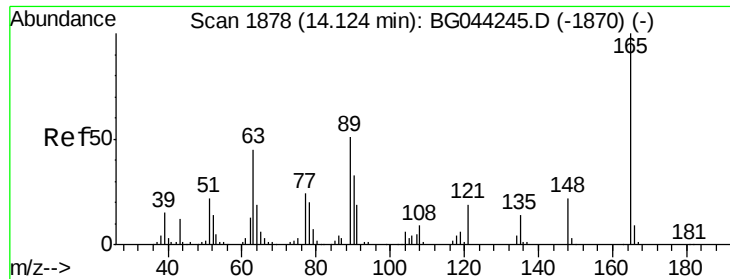
Tot Ion	Ratio	Lower	Upper
172	100		
171	36.9	32.9	49.3
170	24.7	22.0	33.0



#50
 Dimethylphthalate
 Concen: 4.274 ng
 RT: 13.98 min Scan# 1854
 Delta R.T. -0.02 min
 Lab File: BG044510.D
 Acq: 20 Feb 2020 4:35

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.6	5.4
164	9.2	8.7	13.1

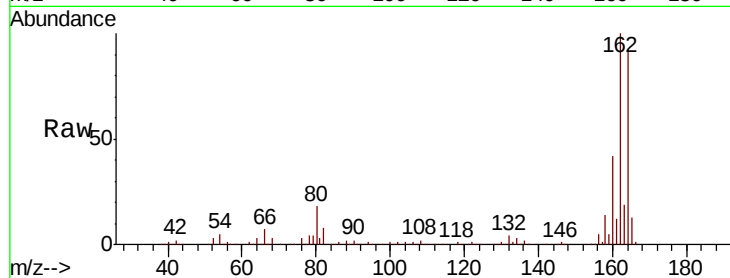




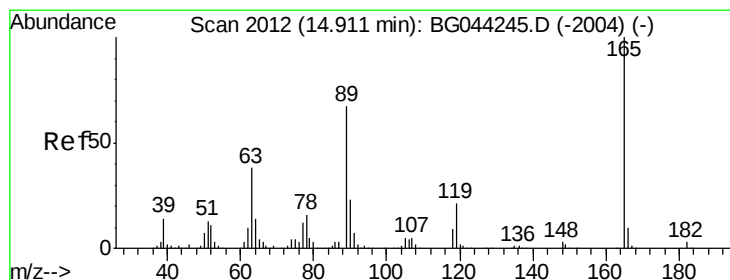
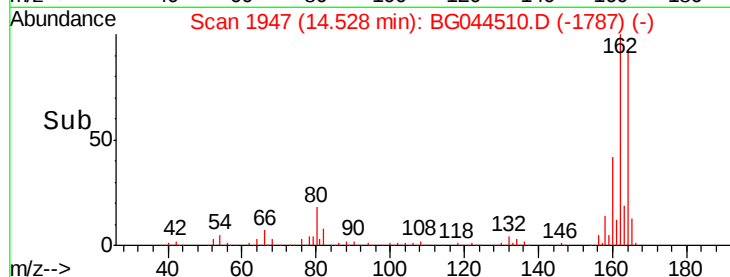
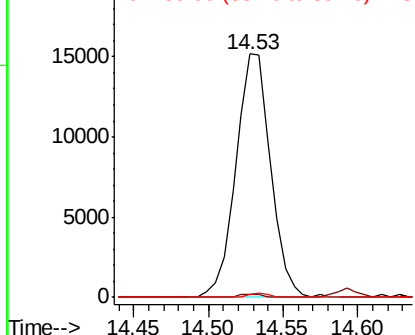
#51
 2,6-Dinitrotoluene
 Concen: 8.427 ng
 RT: 14.53 min Scan# 1947
 Delta R.T. 0.41 min
 Lab File: BG044510.D
 Acq: 20 Feb 2020 4:35

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.2	38.7	58.1#
89	1.4	40.4	60.6#

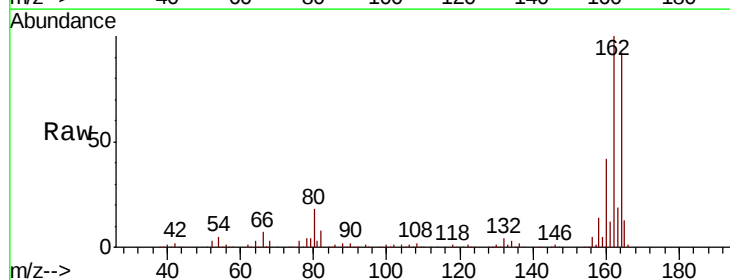


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BGC
 Ion 89.00 (88.70 to 89.70): BGC

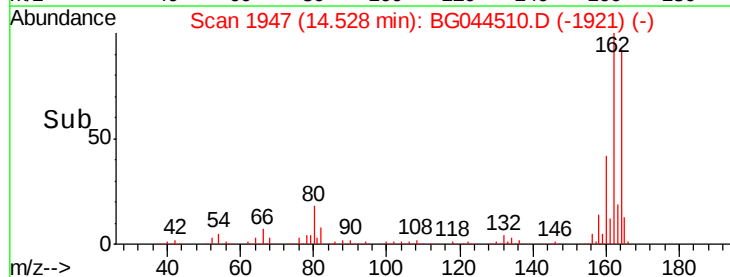
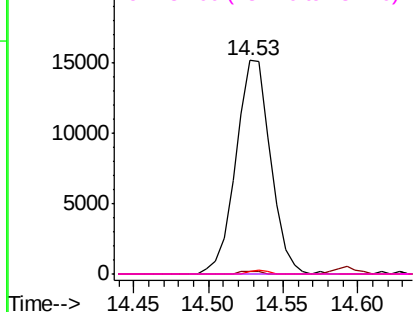


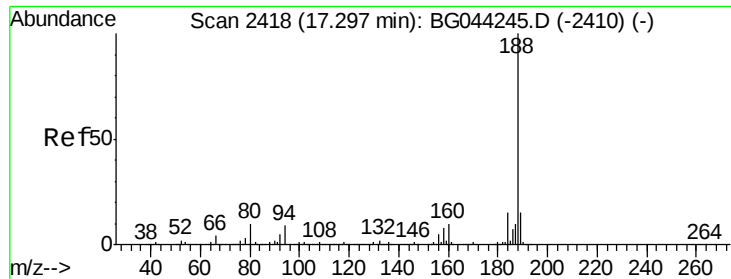
#57
 2,4-Dinitrotoluene
 Concen: 6.012 ng
 RT: 14.53 min Scan# 1947
 Delta R.T. -0.38 min
 Lab File: BG044510.D
 Acq: 20 Feb 2020 4:35

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.2	30.3	45.5#
89	1.4	53.4	80.2#
182	0.0	2.1	3.1#



Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BGC
 Ion 89.00 (88.70 to 89.70): BGC
 Ion 182.00 (181.70 to 182.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.27 min Scan# 2414

Delta R.T. -0.02 min

Lab File: BG044510.D

Acq: 20 Feb 2020 4:35

Instrument :

BNA_G

ClientSampleId :

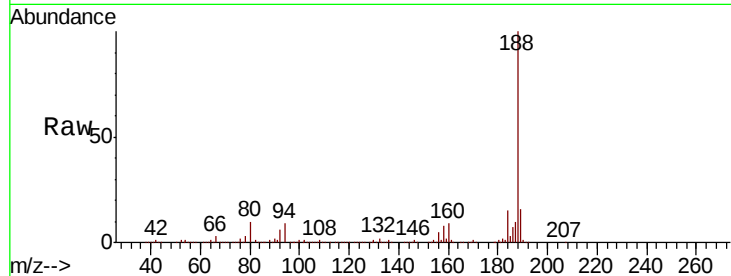
Tot Ion:188 Resp: 397244

Ion Ratio Lower Upper

188 100

94 9.1 7.4 11.2

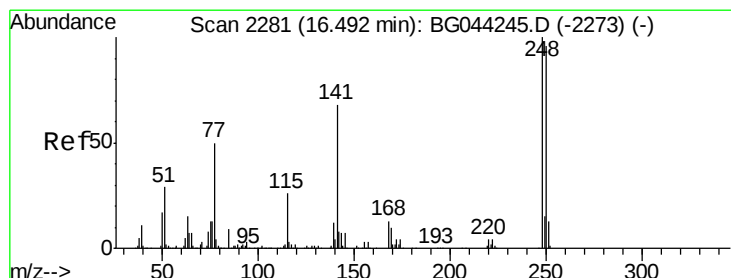
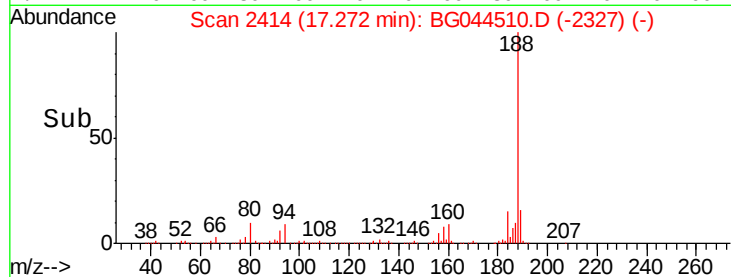
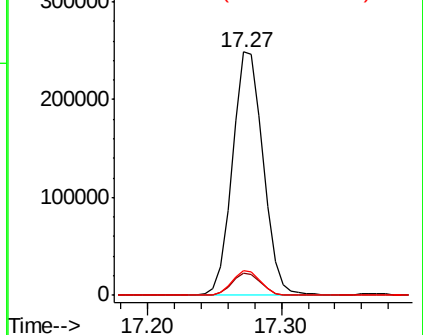
80 10.2 7.7 11.5



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG

Ion 80.00 (79.70 to 80.70): BG



#67

4-Bromophenyl-phenylether

Concen: 3.537 ng

RT: 16.02 min Scan# 2201

Delta R.T. -0.46 min

Lab File: BG044510.D

Acq: 20 Feb 2020 4:35

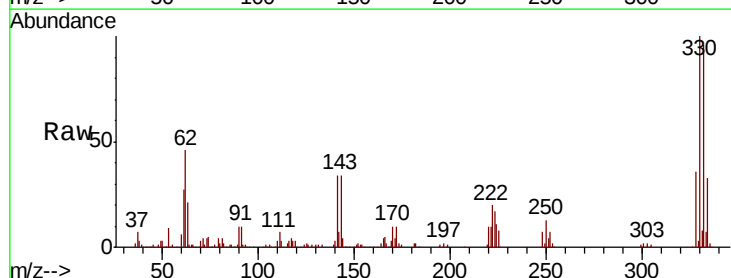
Tgt Ion:248 Resp: 15306

Ion Ratio Lower Upper

248 100

250 184.6 76.6 114.8#

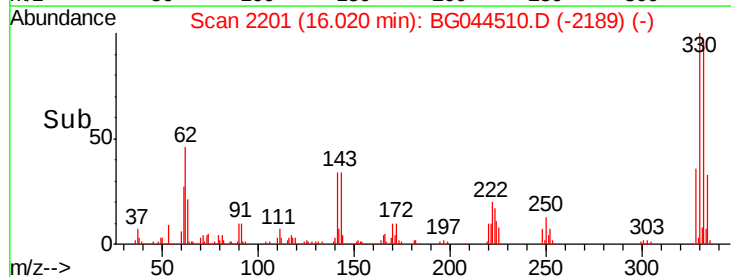
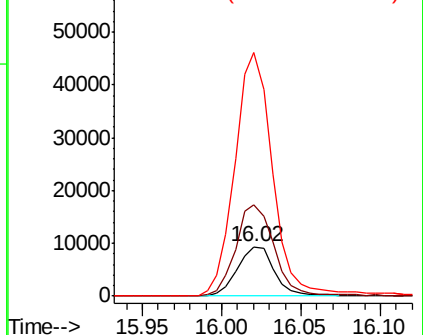
141 490.4 54.7 82.1#

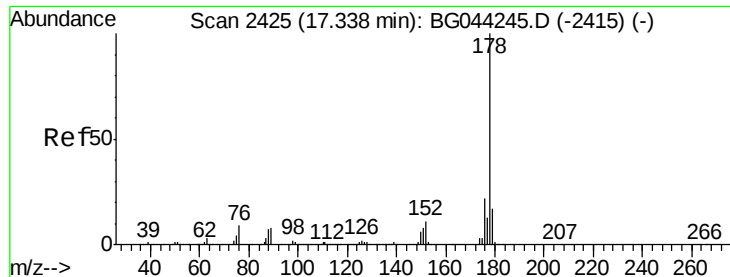


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

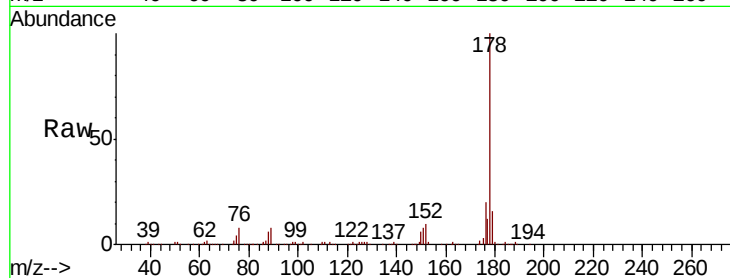




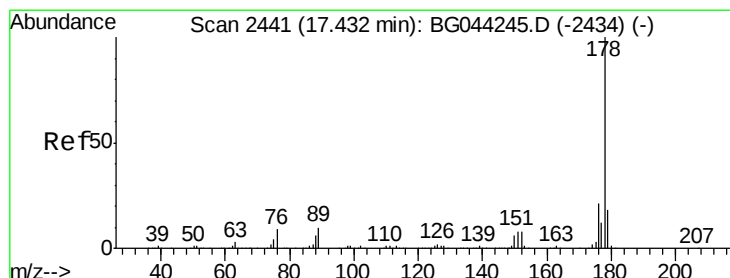
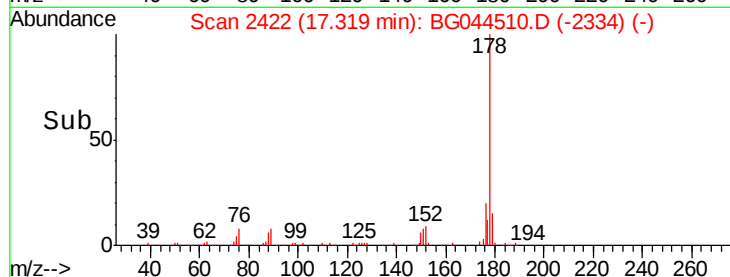
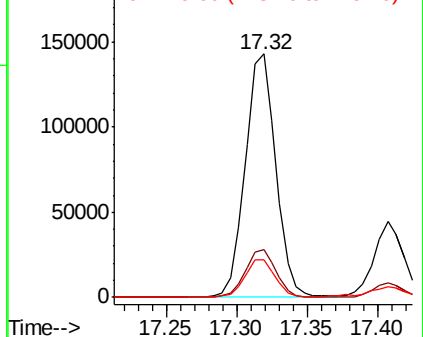
#71
Phenanthrene
Concen: 11.339 ng
RT: 17.32 min Scan# 2422
Delta R.T. -0.01 min
Lab File: BG044510.D
Acq: 20 Feb 2020 4:35

Instrument :
BNA_G
ClientSampleId :

Tot Ion:178 Resp: 218118
Ion Ratio Lower Upper
178 100
176 19.6 17.7 26.5
179 15.5 13.7 20.5

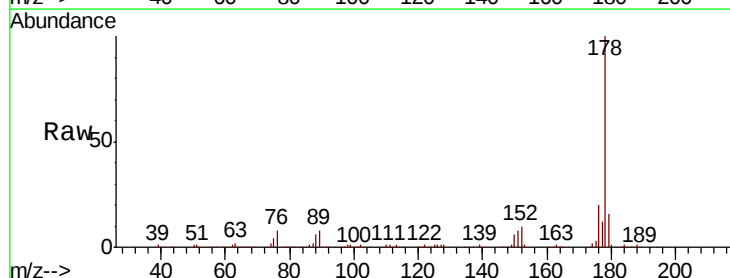


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

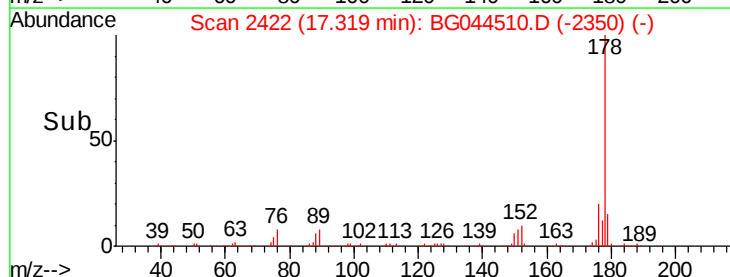
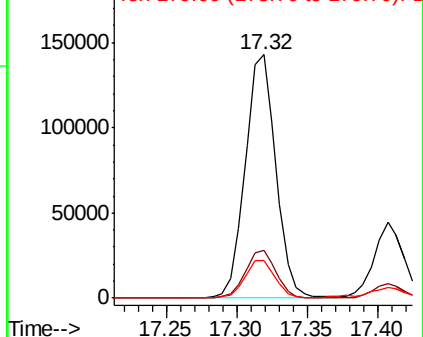


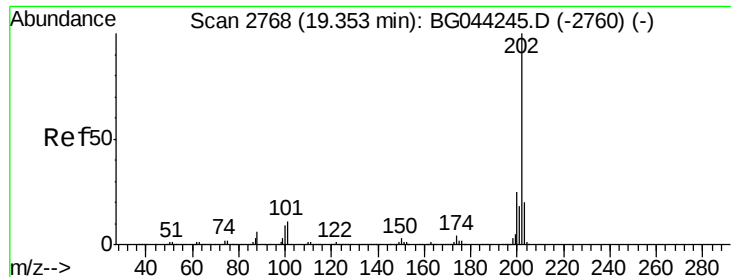
#72
Anthracene
Concen: 11.469 ng
RT: 17.32 min Scan# 2422
Delta R.T. -0.10 min
Lab File: BG044510.D
Acq: 20 Feb 2020 4:35

Tgt Ion:178 Resp: 218118
Ion Ratio Lower Upper
178 100
176 19.6 17.0 25.4
179 15.5 14.4 21.6



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





#75

Fluoranthene

Concen: 26.110 ng

RT: 19.33 min Scan# 2764

Delta R.T. -0.01 min

Lab File: BG044510.D

Acq: 20 Feb 2020 4:35

Instrument :

BNA_G

ClientSampled :

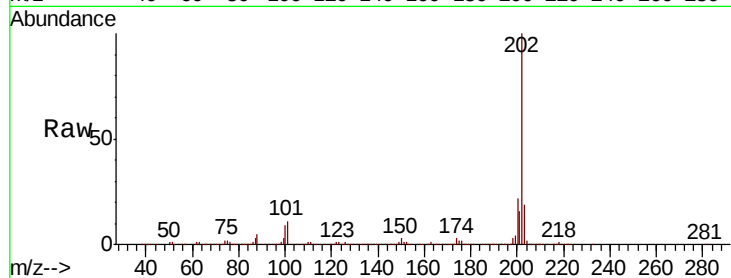
Tot Ion:202 Resp: 581007

Ion Ratio Lower Upper

202 100

101 11.0 0.0 31.3

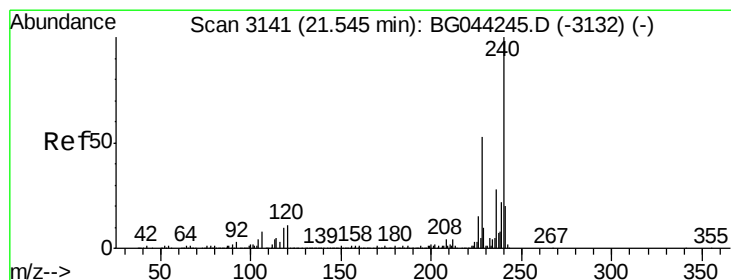
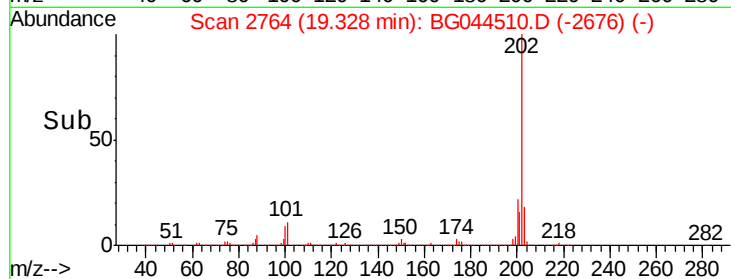
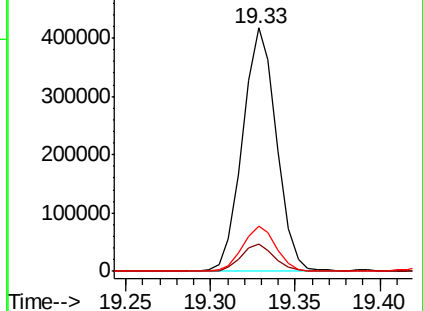
203 18.5 0.0 39.9



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# 3137

Delta R.T. -0.02 min

Lab File: BG044510.D

Acq: 20 Feb 2020 4:35

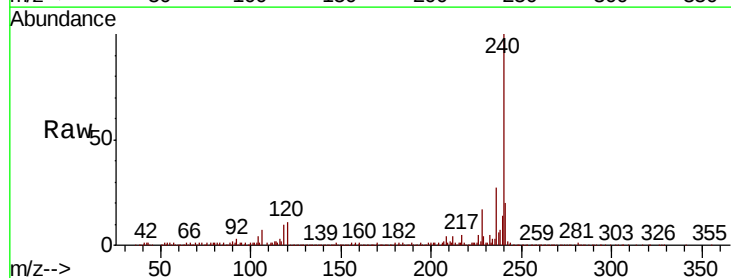
Tgt Ion:240 Resp: 373806

Ion Ratio Lower Upper

240 100

120 10.9 8.4 12.6

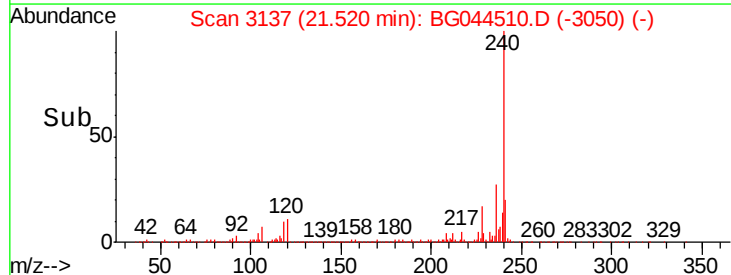
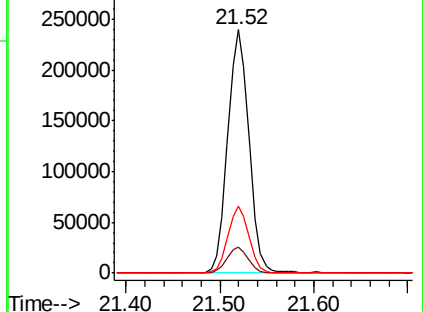
236 27.3 22.1 33.1

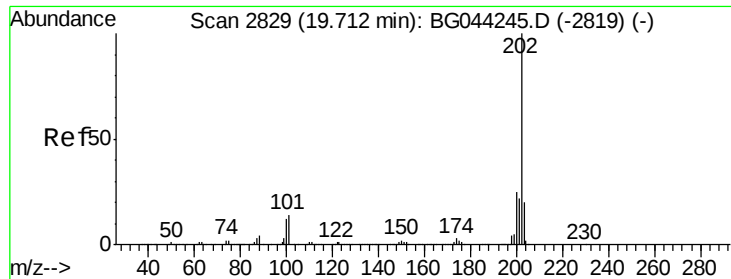


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 22.470 ng

RT: 19.69 min Scan# 2826

Delta R.T. -0.01 min

Lab File: BG044510.D

Acq: 20 Feb 2020 4:35

Instrument :

BNA_G

ClientSampled :

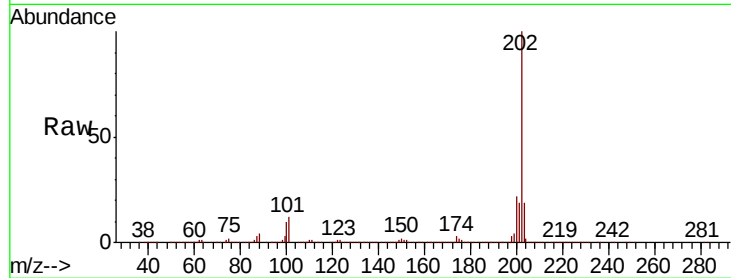
Tot Ion:202 Resp: 539424

Ion Ratio Lower Upper

202 100

200 21.8 20.0 30.0

203 18.5 16.2 24.2

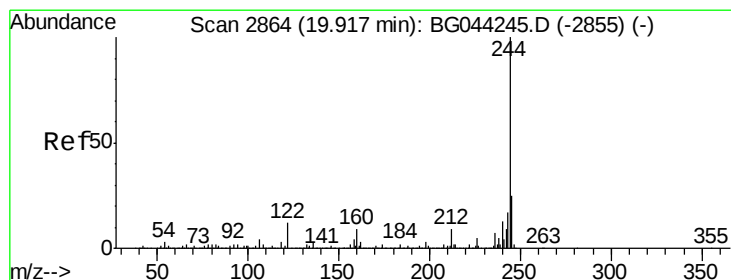
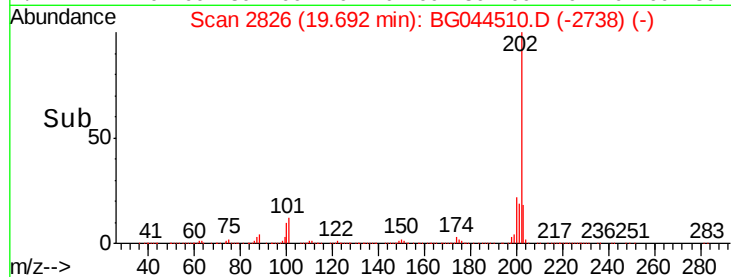
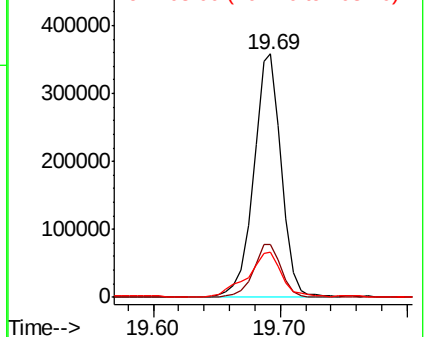


Abundance

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



#79

Terphenyl-d14

Concen: 59.767 ng

RT: 19.89 min Scan# 2860

Delta R.T. -0.01 min

Lab File: BG044510.D

Acq: 20 Feb 2020 4:35

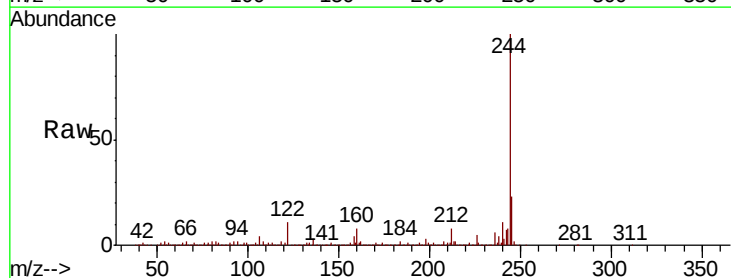
Tgt Ion:244 Resp: 1086171

Ion Ratio Lower Upper

244 100

212 8.0 7.4 11.2

122 11.2 9.8 14.6

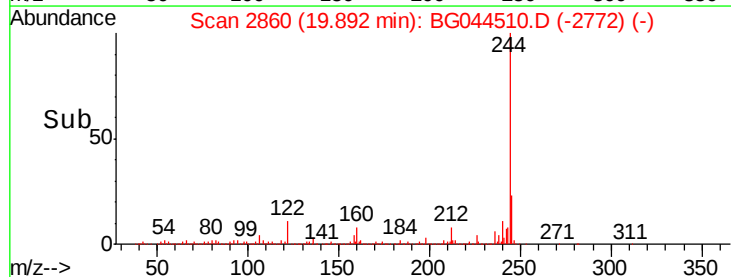
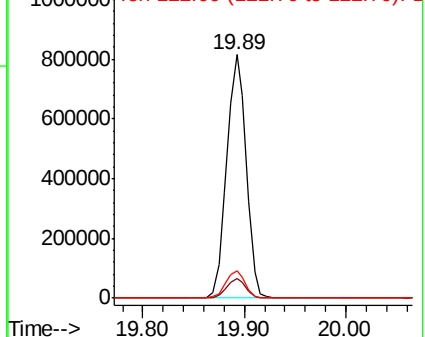


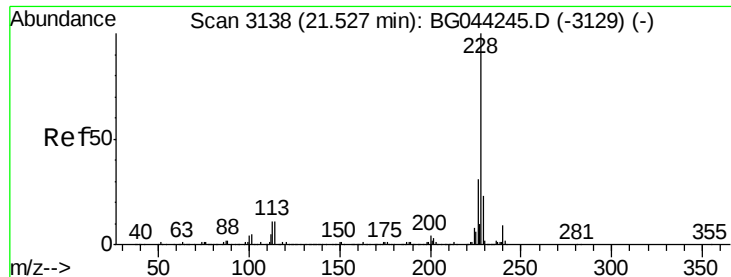
Abundance

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

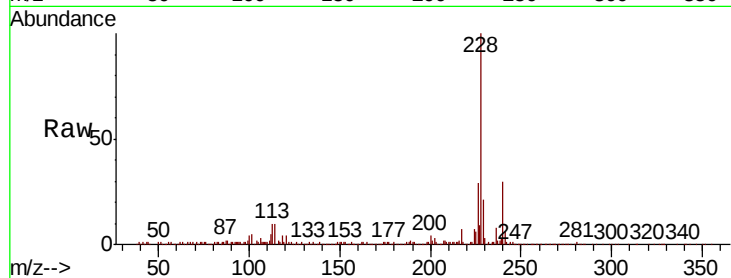




#81
Benzo(a)anthracene
Concen: 12.704 ng
RT: 21.50 min Scan# 3134
Delta R.T. -0.01 min
Lab File: BG044510.D
Acq: 20 Feb 2020 4:35

Instrument :
BNA_G
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.6	24.7	37.1
229	21.1	18.2	27.4

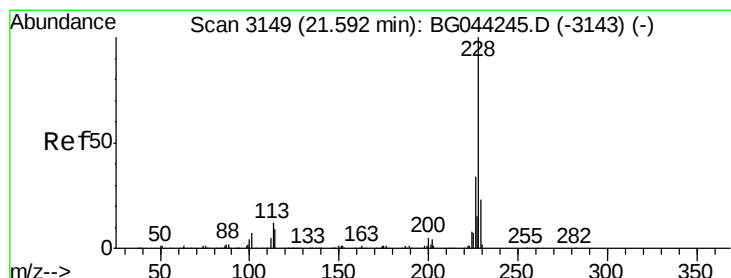
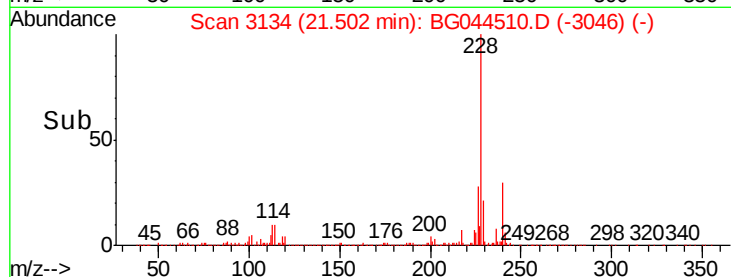
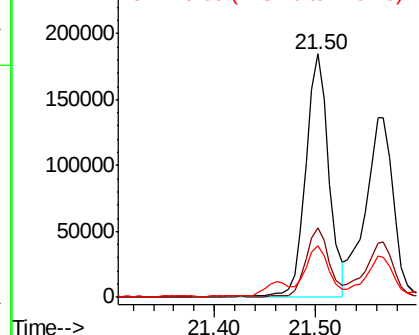


Abundance

Ion 228.00 (227.70 to 228.70): E

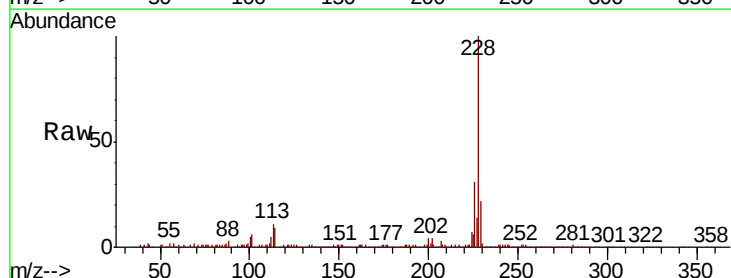
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83
Chrysene
Concen: 11.292 ng
RT: 21.57 min Scan# 3145
Delta R.T. -0.01 min
Lab File: BG044510.D
Acq: 20 Feb 2020 4:35

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.1	27.1	40.7
229	22.3	17.9	26.9

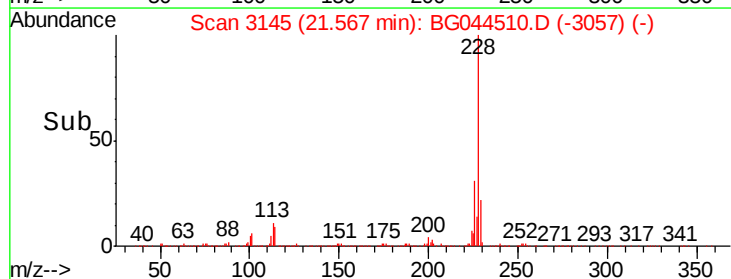
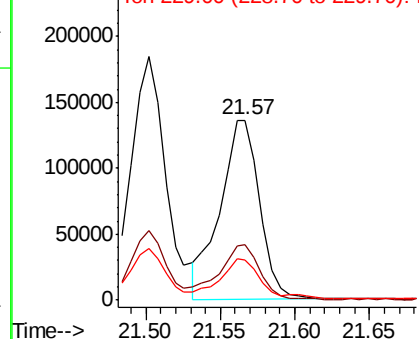


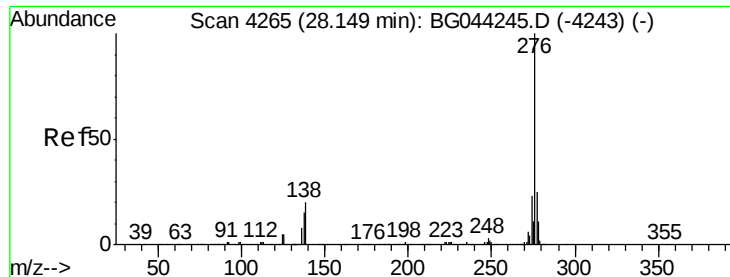
Abundance

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: 7.204 ng

RT: 28.09 min Scan# 4255

Delta R.T. -0.03 min

Lab File: BG044510.D

Acq: 20 Feb 2020 4:35

Instrument :

BNA_G

ClientSampleId :

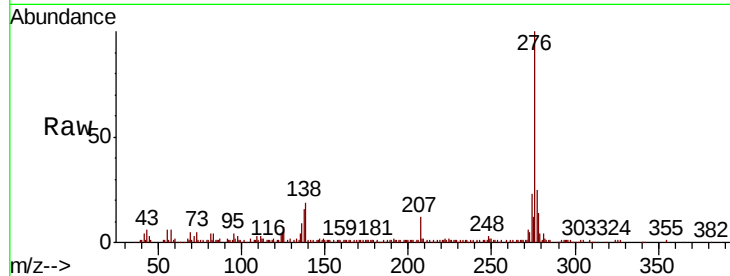
Tot Ion:276 Resp: 209282

Ion Ratio Lower Upper

276 100

138 19.4 19.4 29.0

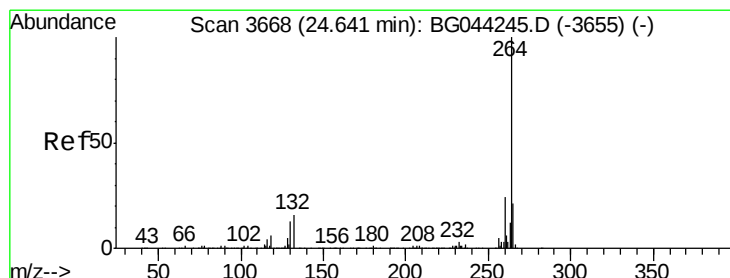
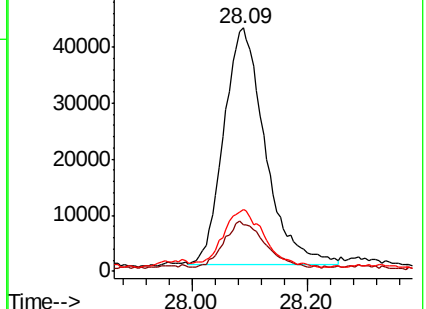
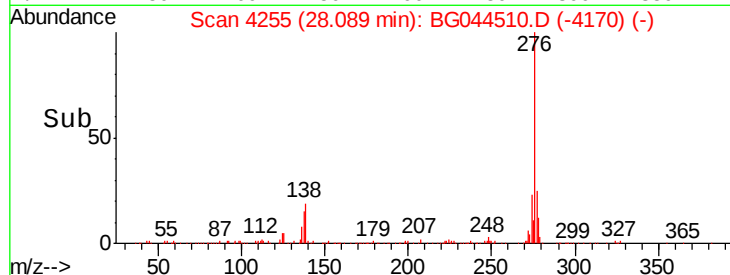
277 24.4 21.0 31.6



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

Perylene-d12

Concen: 20.000 ng

RT: 24.60 min Scan# 3661

Delta R.T. -0.02 min

Lab File: BG044510.D

Acq: 20 Feb 2020 4:35

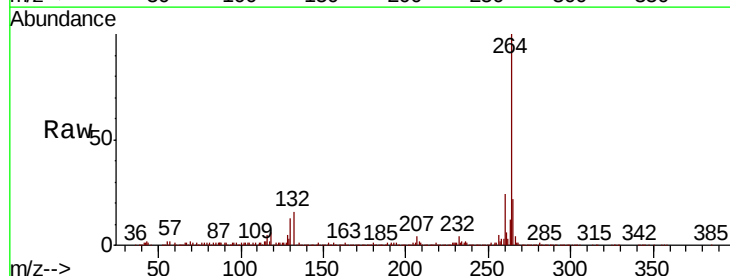
Tgt Ion:264 Resp: 404746

Ion Ratio Lower Upper

264 100

260 23.9 19.4 29.2

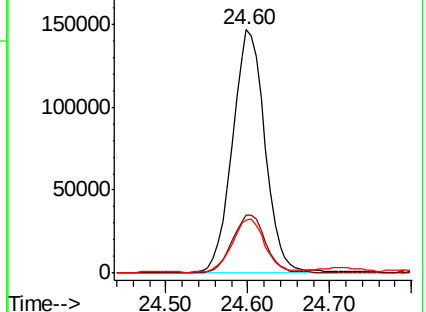
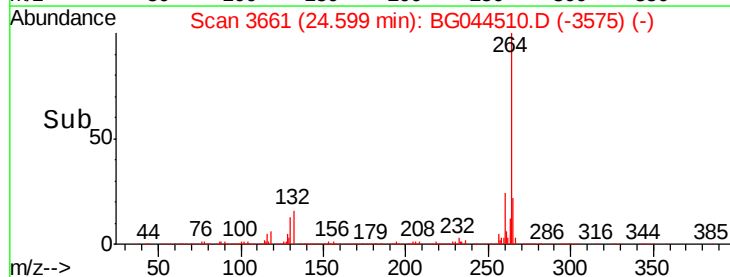
265 22.0 16.7 25.1

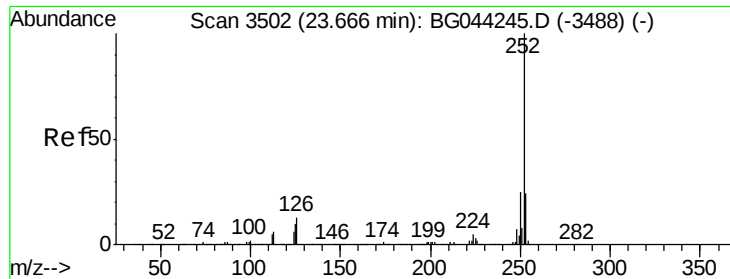


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

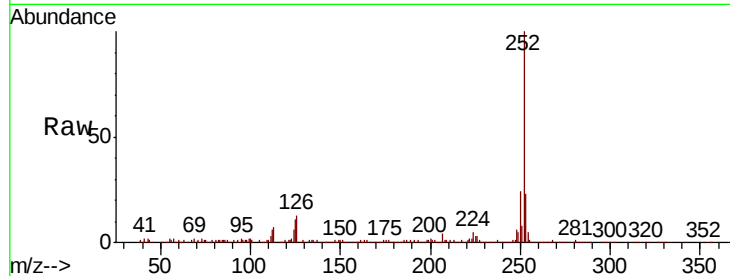




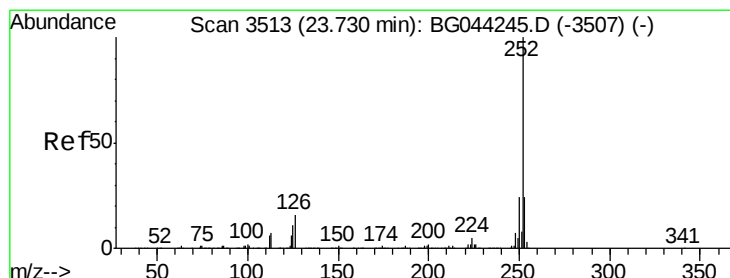
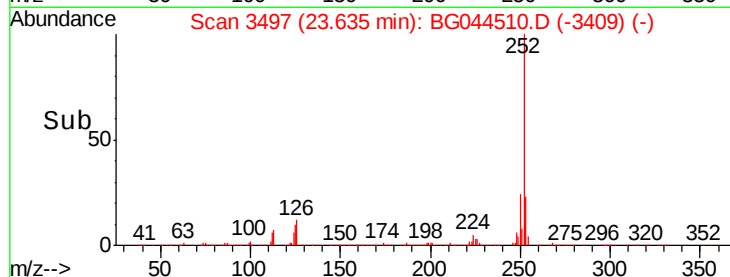
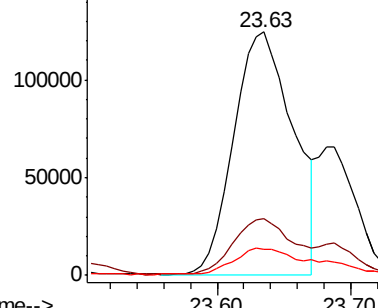
#88
Benzo(b)fluoranthene
Concen: 16.472 ng
RT: 23.63 min Scan# 3497
Delta R.T. -0.01 min
Lab File: BG044510.D
Acq: 20 Feb 2020 4:35

Instrument :
BNA_G
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	19.2	28.8
125	10.7	8.4	12.6

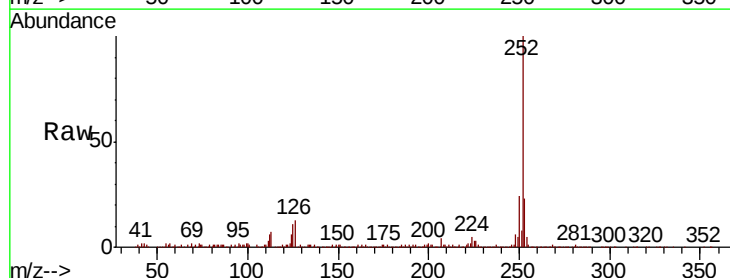


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

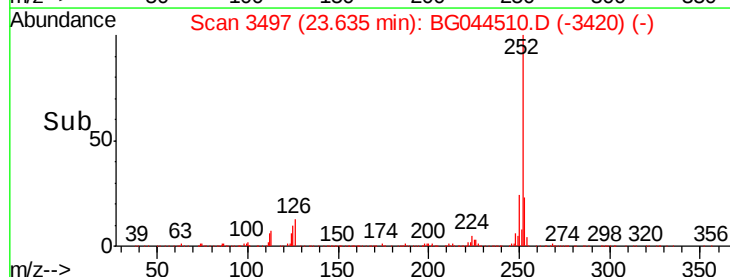
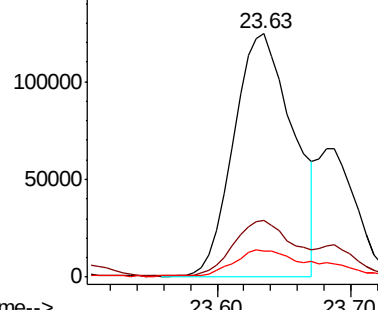


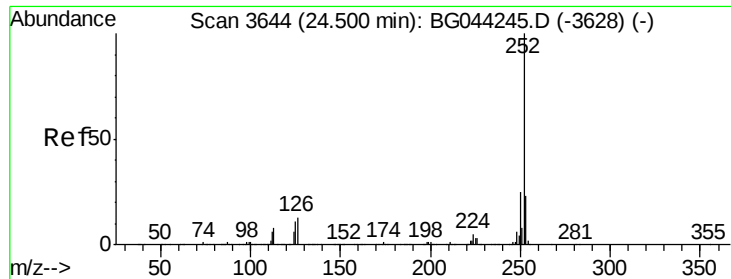
#89
Benzo(k)fluoranthene
Concen: 16.901 ng
RT: 23.63 min Scan# 3497
Delta R.T. -0.08 min
Lab File: BG044510.D
Acq: 20 Feb 2020 4:35

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	19.1	28.7
125	10.7	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: 13.706 ng

RT: 24.46 min Scan# 3637

Delta R.T. -0.02 min

Lab File: BG044510.D

Acq: 20 Feb 2020 4:35

Instrument :

BNA_G

ClientSampleId :

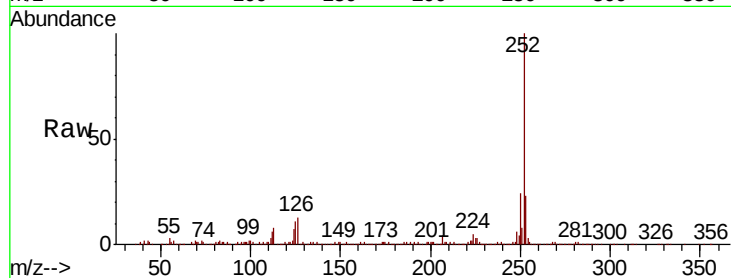
Tot Ion:252 Resp: 302248

Ion Ratio Lower Upper

252 100

253 23.4 18.1 27.1

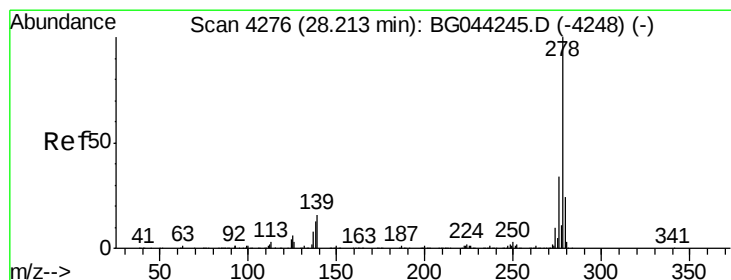
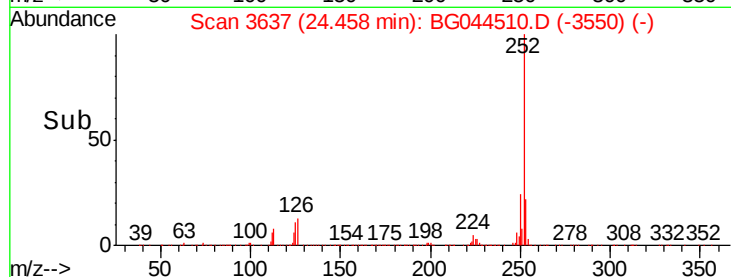
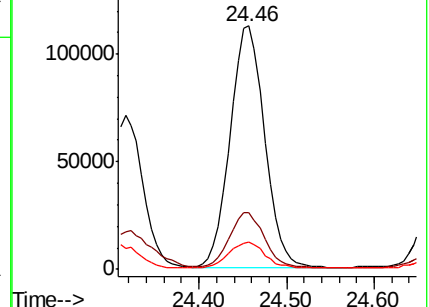
125 11.1 8.6 13.0



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



#91

Dibenzo(a,h)anthracene

Concen: 2.081 ng

RT: 28.13 min Scan# 4262

Delta R.T. -0.05 min

Lab File: BG044510.D

Acq: 20 Feb 2020 4:35

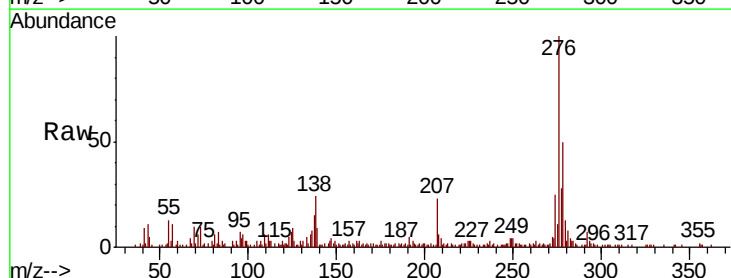
Tgt Ion:278 Resp: 45422

Ion Ratio Lower Upper

278 100

139 17.6 12.7 19.1

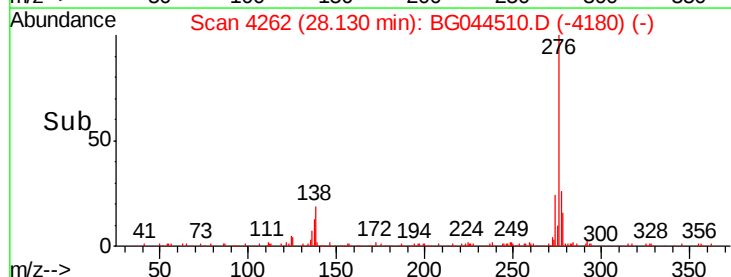
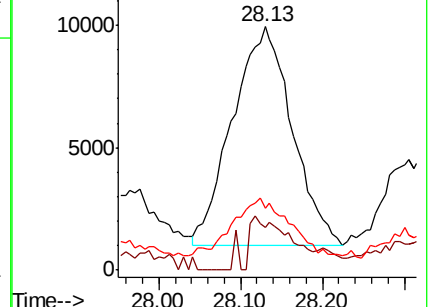
279 25.4 19.3 28.9

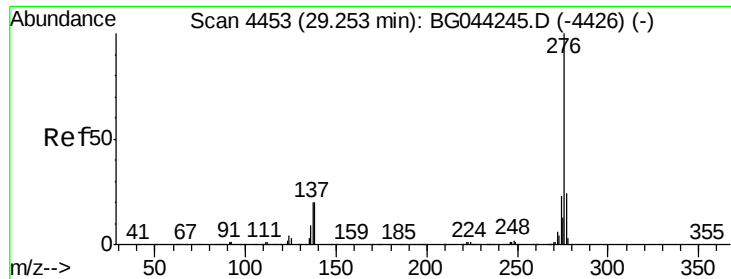


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

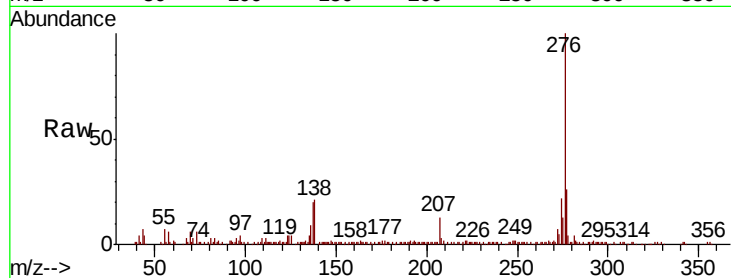




#92
 Benzo(a,h,i)perylene
 Concen: 10.736 ng
 RT: 29.17 min Scan# 4439
 Delta R.T. -0.03 min
 Lab File: BG044510.D
 Acq: 20 Feb 2020 4:35

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.9	18.8	28.2
138	20.6	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

