

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG021720\
 Data File : BG044466.D
 Acq On : 18 Feb 2020 3:28
 Operator : CG/JU
 Sample : L1529-03RE
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Feb 18 06:09:15 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	81767	20.00	ng	-0.01
21) Naphthalene-d8	10.69	136	345390	20.00	ng	-0.01
39) Acenaphthene-d10	14.53	164	222156	20.00	ng	-0.01
64) Phenanthrene-d10	17.27	188	478431	20.00	ng	-0.01
76) Chrysene-d12	21.52	240	456350	20.00	ng	-0.02
87) Perylene-d12	24.60	264	488491	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	435430	93.98	ng	0.00
7) Phenol-d6	7.06	99	578226	92.94	ng	-0.01
23) Nitrobenzene-d5	9.05	82	346846	56.69	ng	-0.01
42) 2,4,6-Tribromophenol	16.02	330	222391	85.27	ng	-0.01
45) 2-Fluorobiphenyl	13.15	172	794716	59.90	ng	-0.01
79) Terphenyl-d14	19.89	244	1195384	53.88	ng	0.00

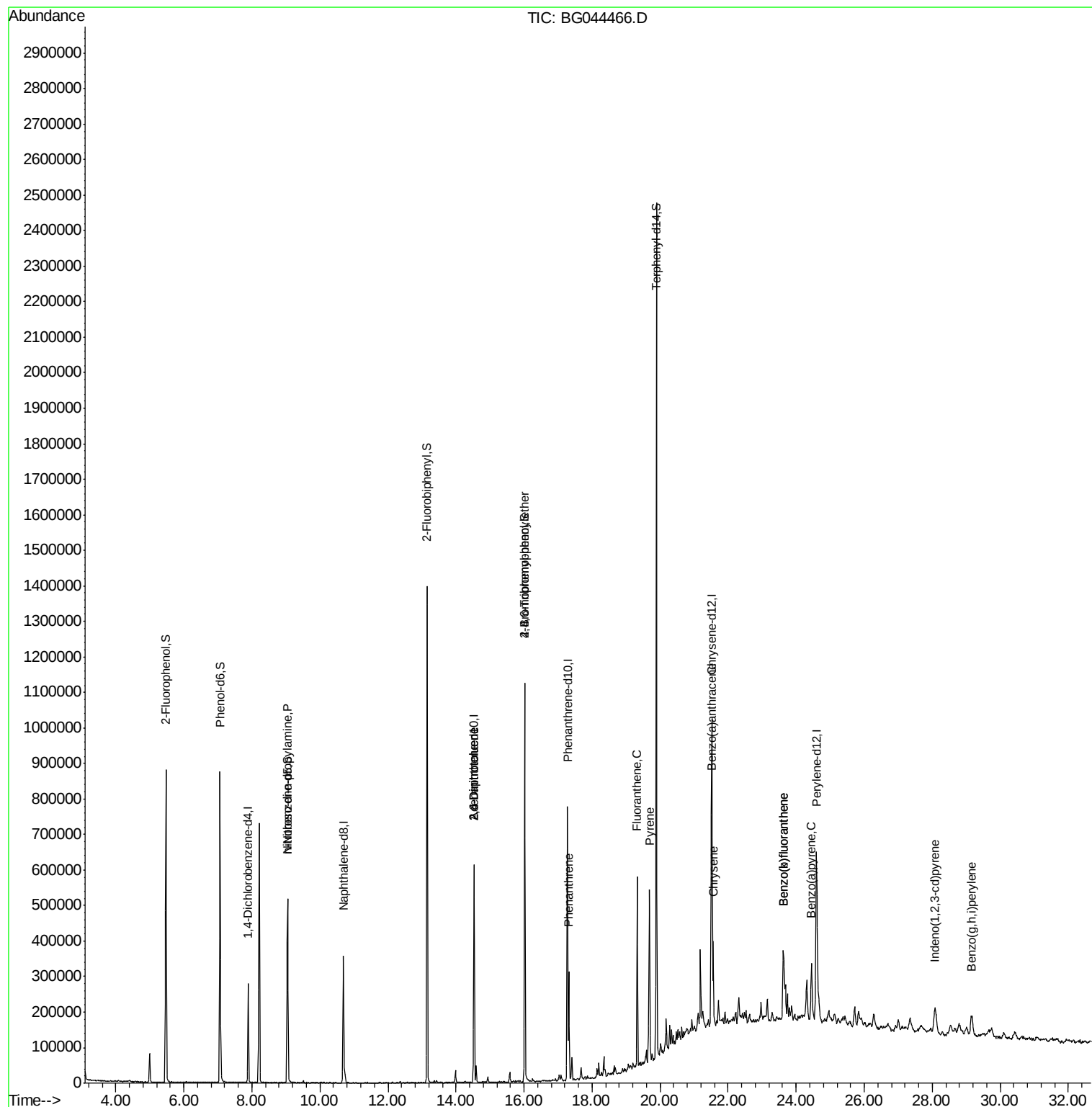
Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	9.05	70	44119	10.640	ng	# 77
51) 2,6-Dinitrotoluene	14.53	165	29601	8.313	ng	# 30
57) 2,4-Dinitrotoluene	14.53	165	29601	5.932	ng	# 27
67) 4-Bromophenyl-phenylether	16.02	248	14607	2.802	ng	# 1
71) Phenanthrene	17.31	178	194544	8.397	ng	95
75) Fluoranthene	19.33	202	341686	12.749	ng	96
78) Pyrene	19.69	202	300023	10.237	ng	95
81) Benzo(a)anthracene	21.50	228	174945	6.220	ng	96
83) Chrysene	21.56	228	164615	6.055	ng	95
86) Indeno(1,2,3-cd)pyrene	28.08	276	117052	3.300	ng	95
88) Benzo(b)fluoranthene	23.63	252	240104	8.530	ng	98
89) Benzo(k)fluoranthene	23.63	252	240104	8.752	ng	98
90) Benzo(a)pyrene	24.45	252	167677	6.300	ng	97
92) Benzo(a,h,i)perylene	29.16	276	115765	4.390	ng	99

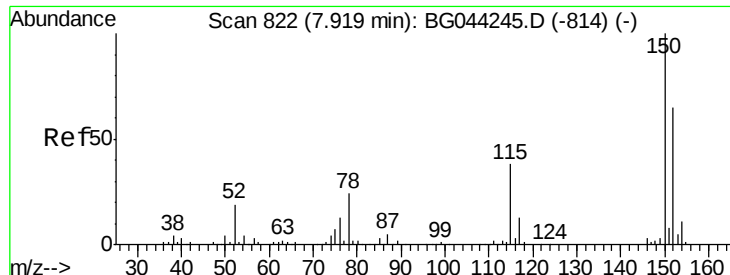
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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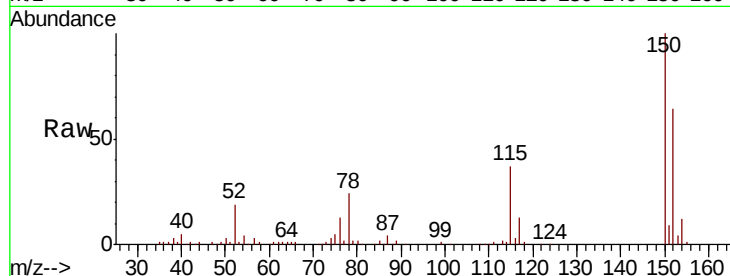


#1

1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.89 min Scan# 817
 Delta R.T. -0.01 min
 Lab File: BG044466.D
 Acq: 18 Feb 2020 3:28

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.5	122.6	183.8
115	58.1	46.0	69.0

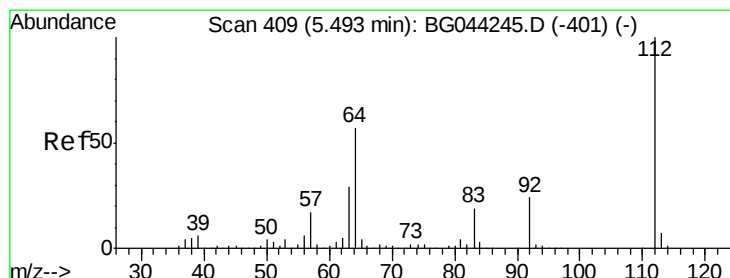
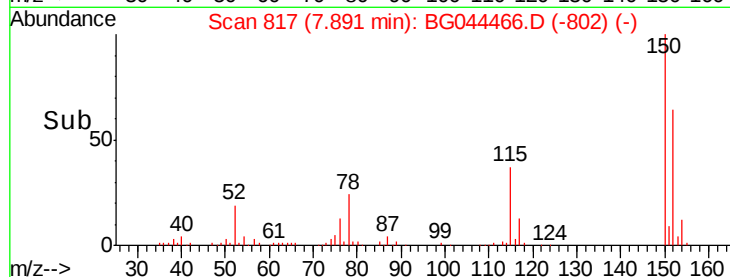
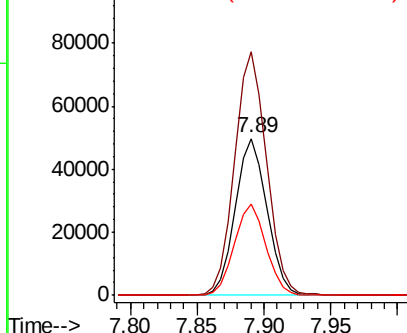


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

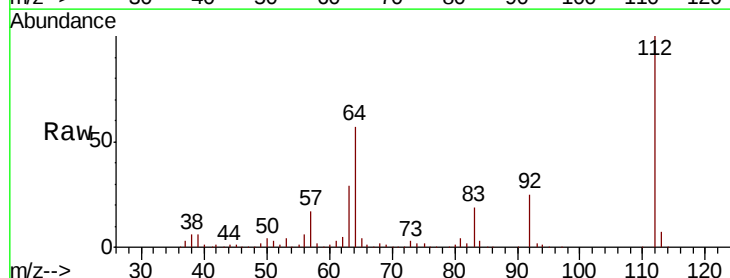
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
 Concen: 93.982 ng
 RT: 5.47 min Scan# 405
 Delta R.T. -0.01 min
 Lab File: BG044466.D
 Acq: 18 Feb 2020 3:28

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.5	45.4	68.2
63	28.7	22.9	34.3

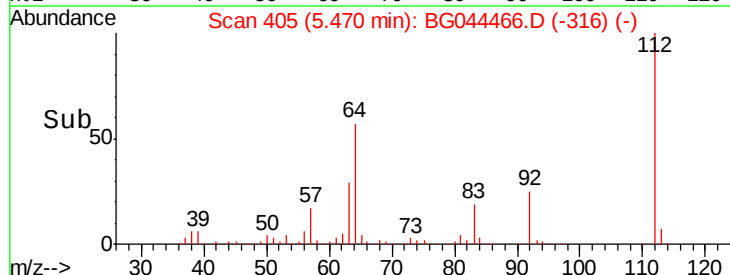
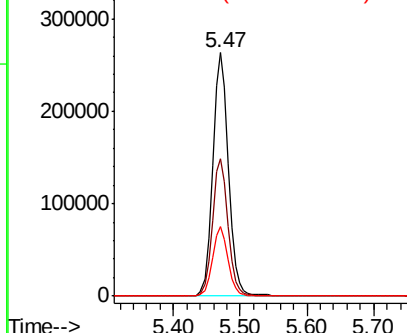


Abundance

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: 92.939 ng

RT: 7.06 min Scan# 676

Delta R.T. -0.01 min

Lab File: BG044466.D

Acq: 18 Feb 2020 3:28

Instrument :

BNA_G

ClientSampleId :

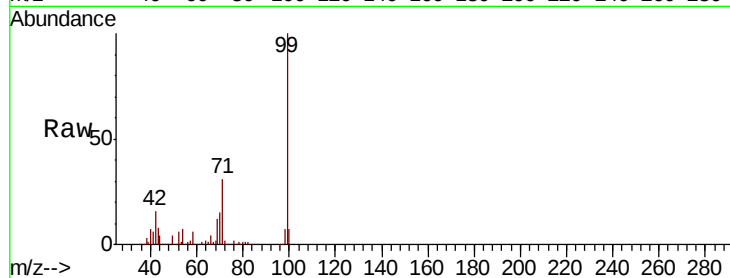
Tot Ion: 99 Resp: 578226

Ion Ratio Lower Upper

99 100

42 16.2 13.8 20.6

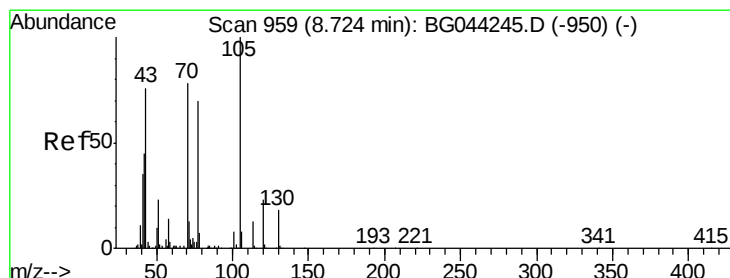
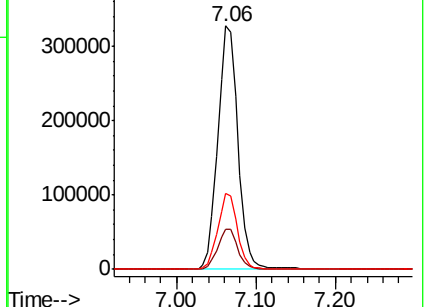
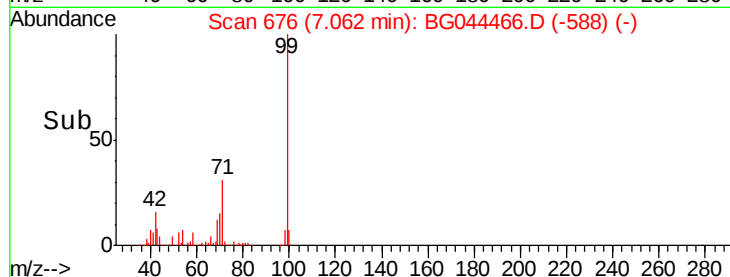
71 31.1 25.5 38.3



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: 10.640 ng

RT: 9.05 min Scan# 1014

Delta R.T. 0.34 min

Lab File: BG044466.D

Acq: 18 Feb 2020 3:28

Tgt Ion: 70 Resp: 44119

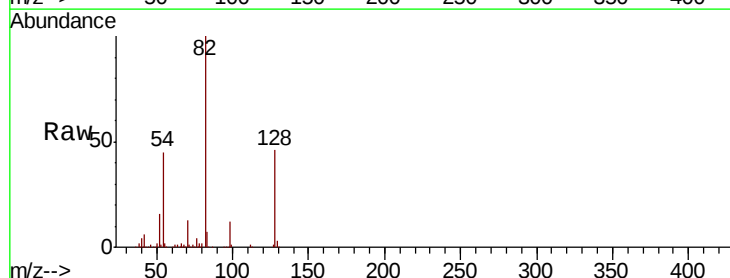
Ion Ratio Lower Upper

70 100

42 46.4 46.2 69.2

101 0.0 8.4 12.6#

130 2.8 17.8 26.8#

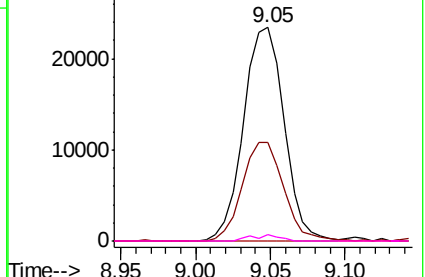
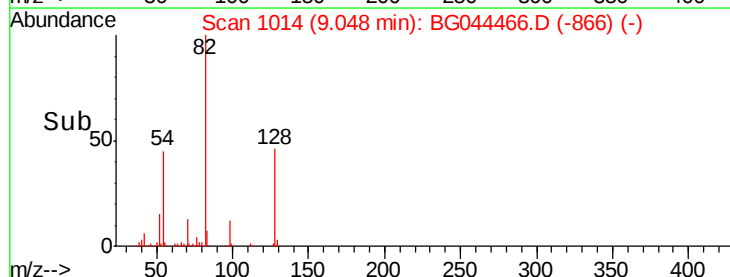


Abundance Ion 70.00 (69.70 to 70.70): BGC

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# 1293

Delta R.T. -0.01 min

Lab File: BG044466.D

Acq: 18 Feb 2020 3:28

Instrument :

BNA_G

ClientSampleId :

Tot Ion:136 Resp: 345390

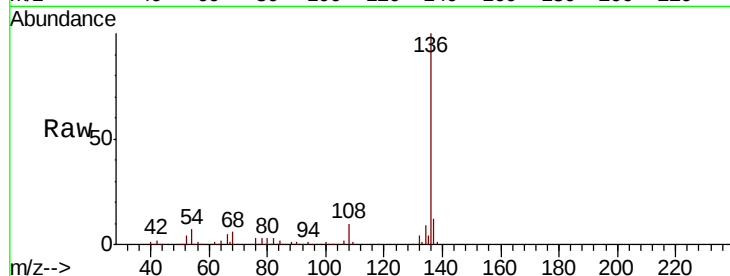
Ion Ratio Lower Upper

136 100

137 11.7 8.8 13.2

54 7.3 5.8 8.8

68 5.9 4.6 6.8

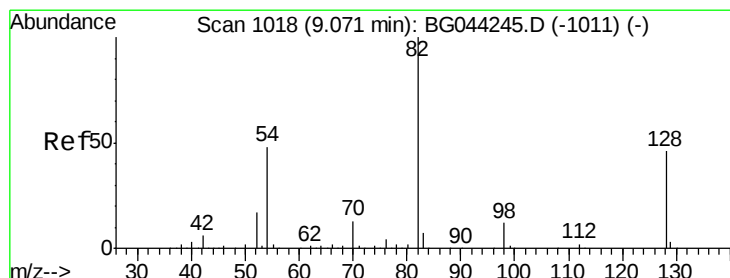
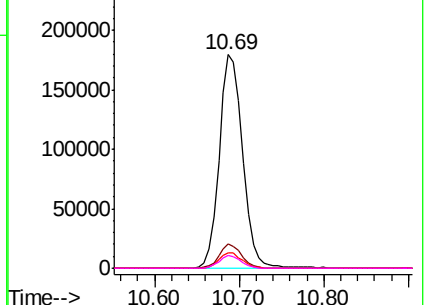
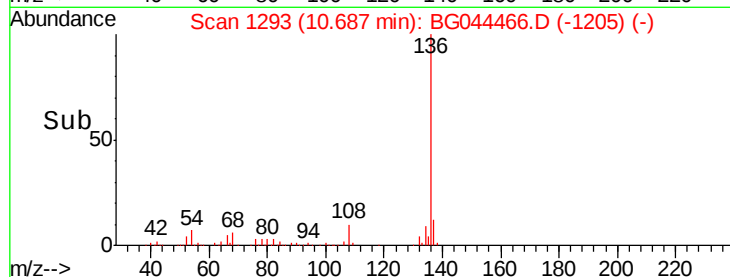


Abundance Ion 136.00 (135.70 to 136.70): E

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: 56.694 ng

RT: 9.05 min Scan# 1014

Delta R.T. -0.01 min

Lab File: BG044466.D

Acq: 18 Feb 2020 3:28

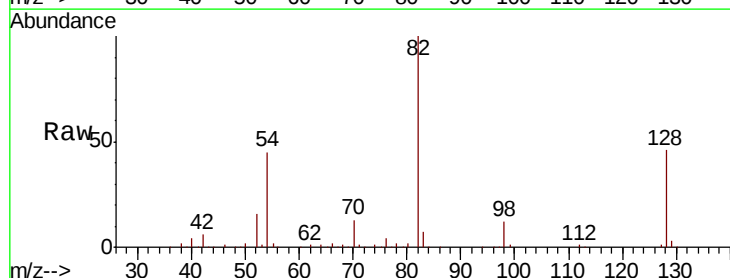
Tgt Ion: 82 Resp: 346846

Ion Ratio Lower Upper

82 100

128 46.3 36.5 54.7

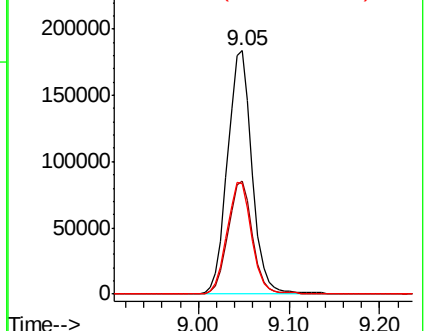
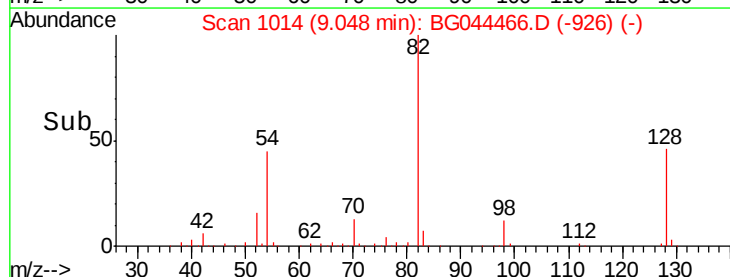
54 45.3 38.6 58.0

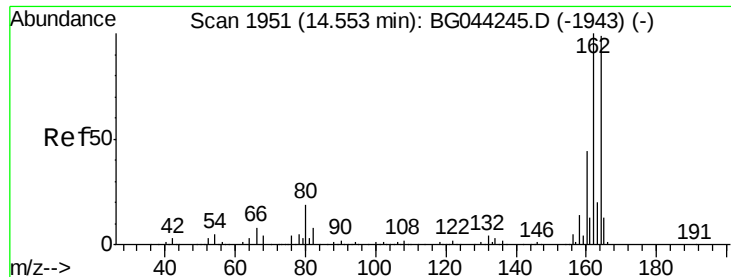


Abundance Ion 82.00 (81.70 to 82.70): BGC

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: BG044466.D

Acq: 18 Feb 2020 3:28

Instrument :

BNA_G

ClientSampleId :

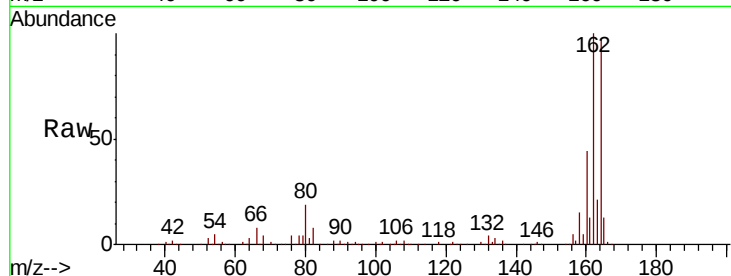
Tot Ion:164 Resp: 222156

Ion Ratio Lower Upper

164 100

162 103.6 80.7 121.1

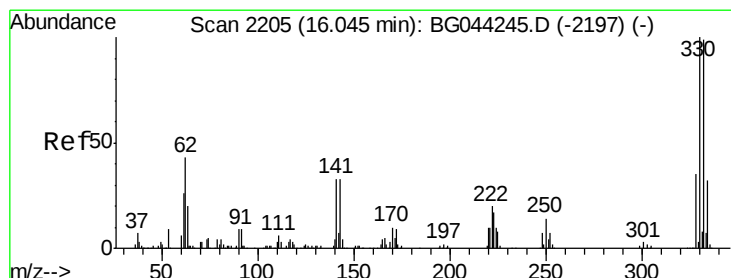
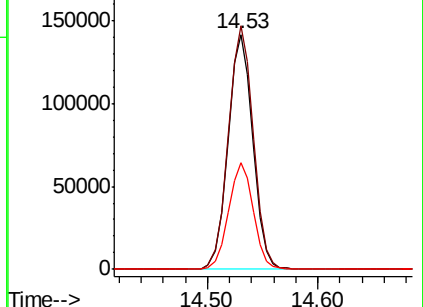
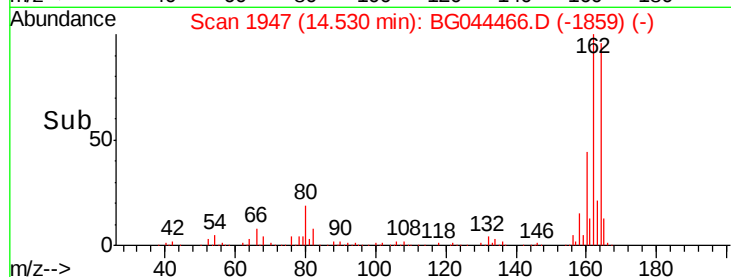
160 45.3 35.3 52.9



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: 85.273 ng

RT: 16.02 min Scan# 2200

Delta R.T. -0.01 min

Lab File: BG044466.D

Acq: 18 Feb 2020 3:28

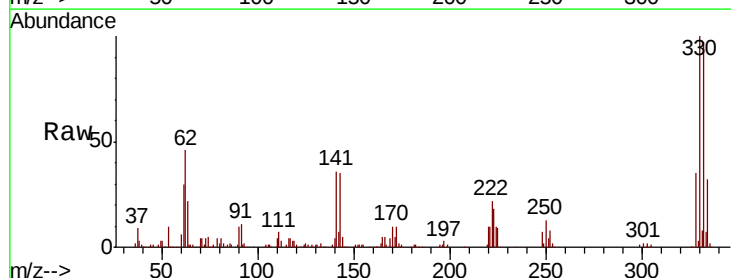
Tgt Ion:330 Resp: 222391

Ion Ratio Lower Upper

330 100

332 95.2 77.2 115.8

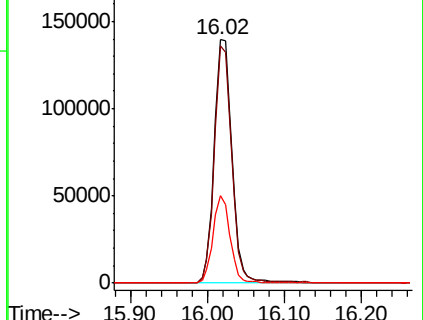
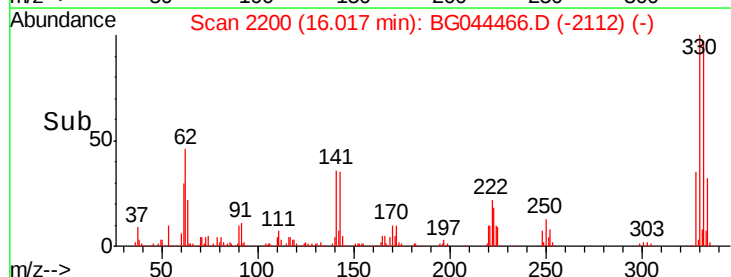
141 34.3 28.3 42.5



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

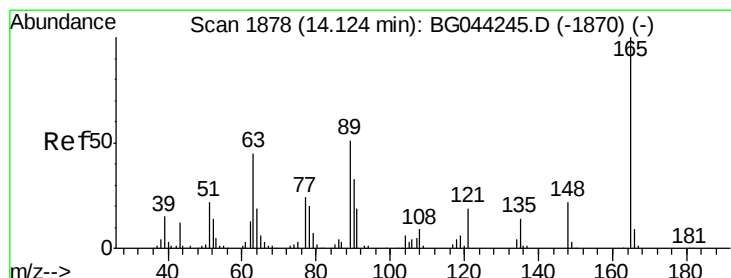
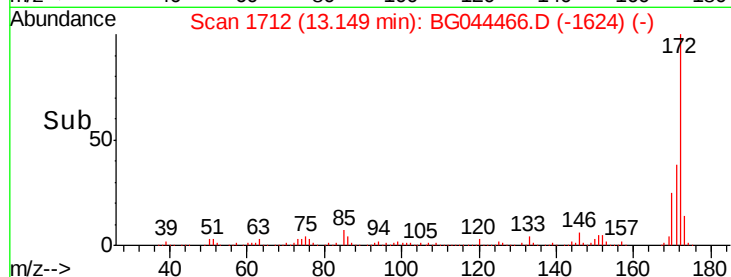
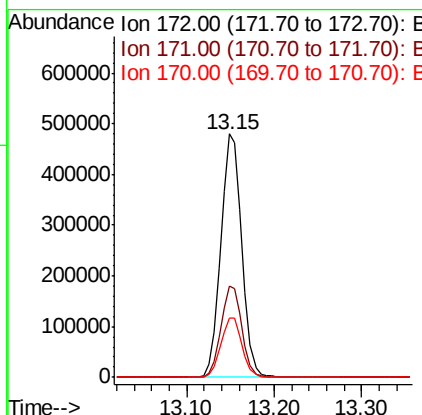
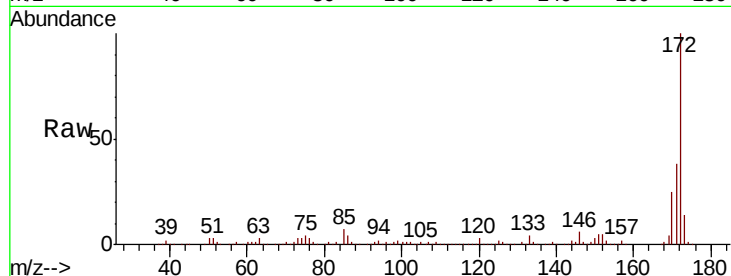




#45
 2-Fluorobiphenyl
 Concen: 59.904 ng
 RT: 13.15 min Scan# 1712
 Delta R.T. -0.01 min
 Lab File: BG044466.D
 Acq: 18 Feb 2020 3:28

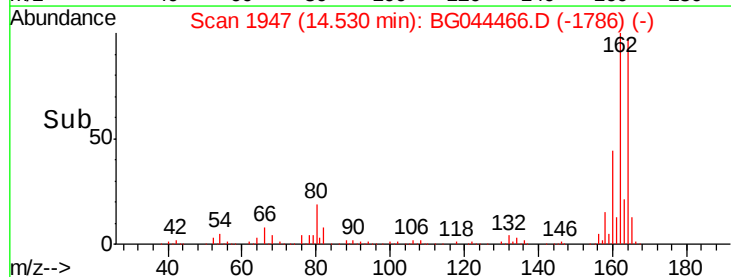
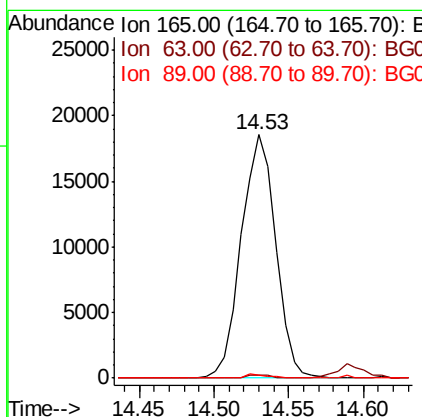
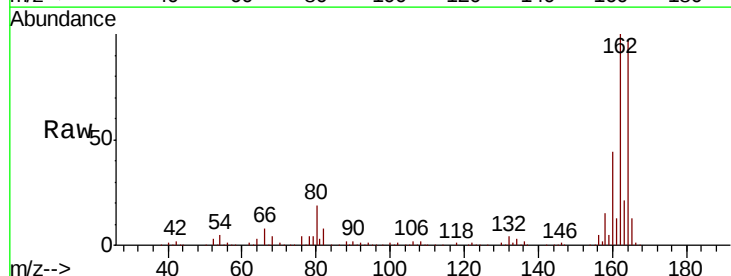
Instrument :
 BNA_G
 ClientSampleId :

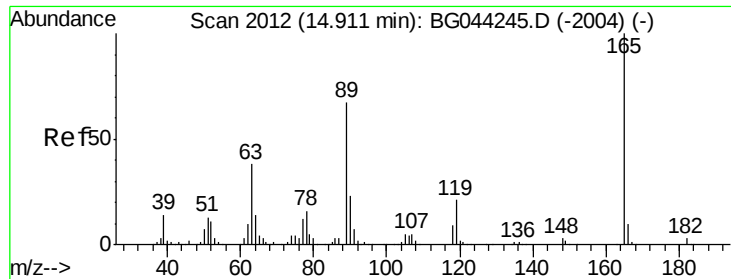
Tot Ion	Ratio	Lower	Upper
172	100		
171	37.8	32.9	49.3
170	24.6	22.0	33.0



#51
 2,6-Dinitrotoluene
 Concen: 8.313 ng
 RT: 14.53 min Scan# 1947
 Delta R.T. 0.41 min
 Lab File: BG044466.D
 Acq: 18 Feb 2020 3:28

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.3	38.7	58.1#
89	1.1	40.4	60.6#

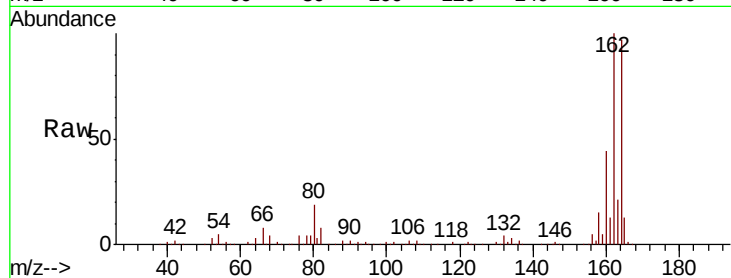




#57
 2,4-Dinitrotoluene
 Concen: 5.932 ng
 RT: 14.53 min Scan# 1947
 Delta R.T. -0.37 min
 Lab File: BG044466.D
 Acq: 18 Feb 2020 3:28

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.3	30.3	45.5#
89	1.1	53.4	80.2#
182	0.0	2.1	3.1#

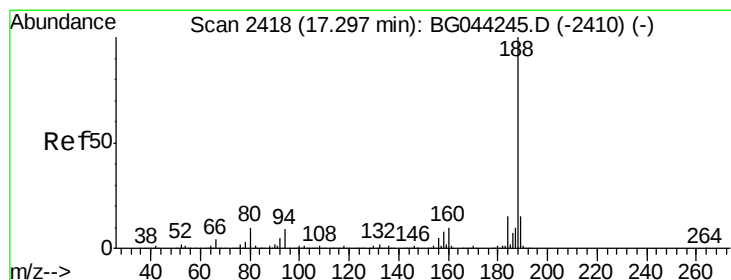
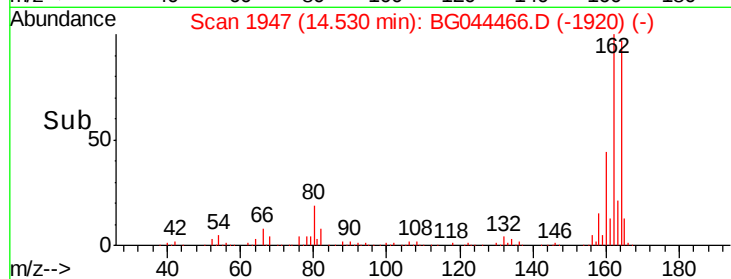
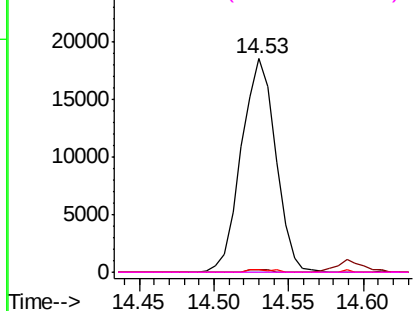


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

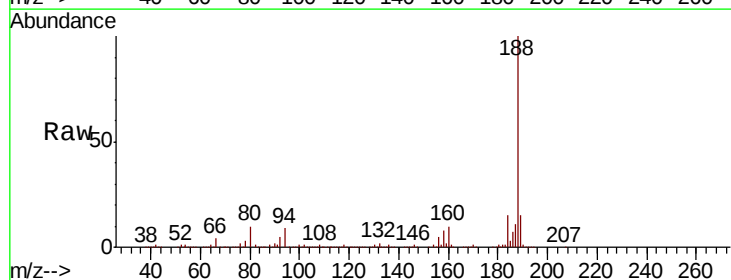
Ion 89.00 (88.70 to 89.70): BGC

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. -0.01 min
 Lab File: BG044466.D
 Acq: 18 Feb 2020 3:28

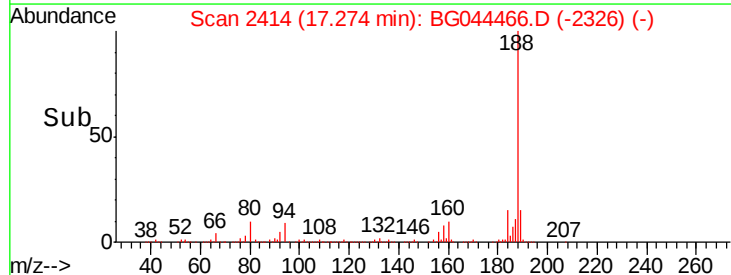
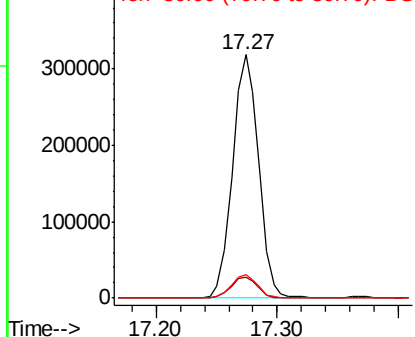
Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.7	7.4	11.2
80	9.8	7.7	11.5

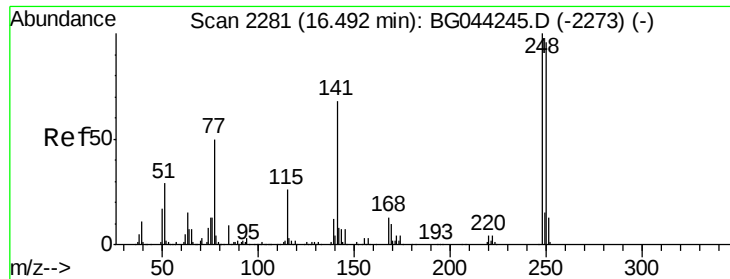


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

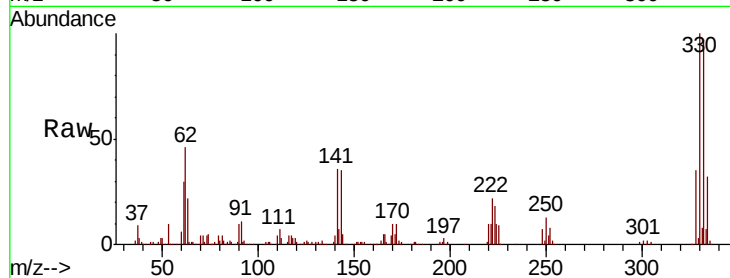




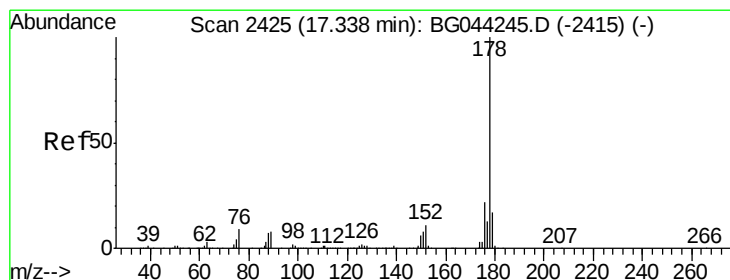
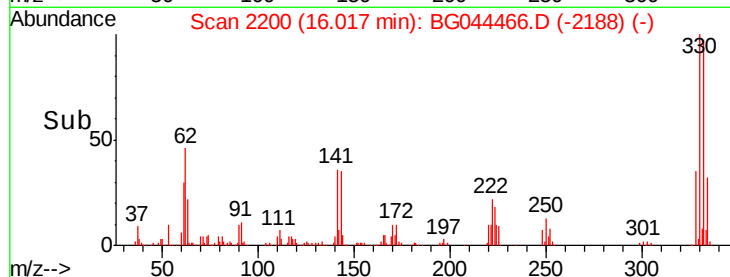
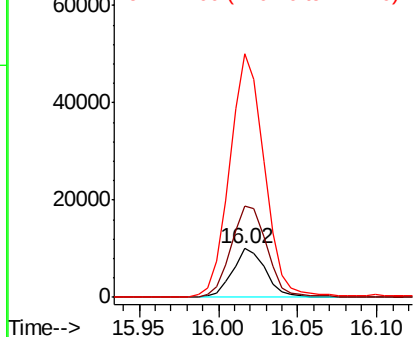
#67
 4-Bromophenyl-phenylether
 Concen: 2.802 ng
 RT: 16.02 min Scan# 2200
 Delta R.T. -0.46 min
 Lab File: BG044466.D
 Acq: 18 Feb 2020 3:28

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion:248 Resp: 14607
 Ion Ratio Lower Upper
 248 100
 250 186.4 76.6 114.8#
 141 498.6 54.7 82.1#

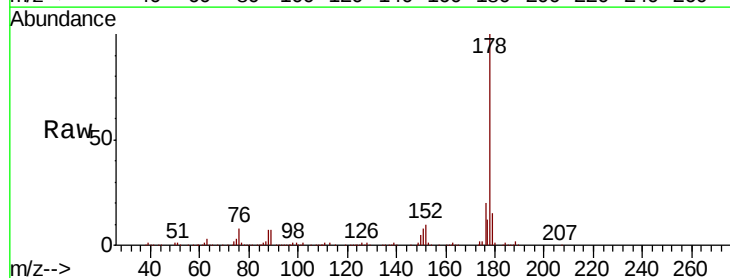


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

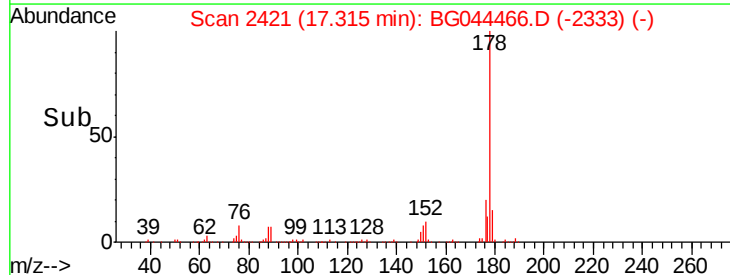
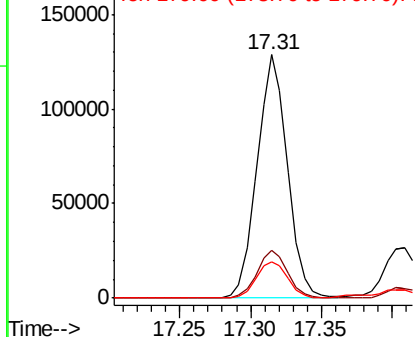


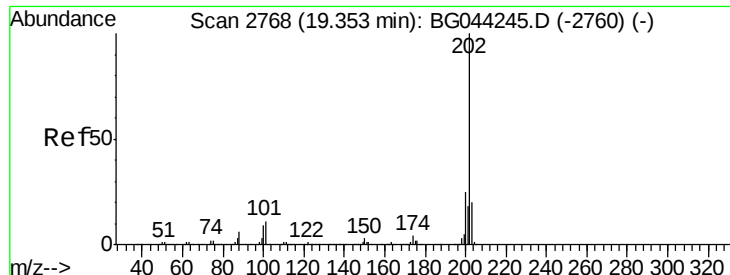
#71
 Phenanthrene
 Concen: 8.397 ng
 RT: 17.31 min Scan# 2421
 Delta R.T. -0.01 min
 Lab File: BG044466.D
 Acq: 18 Feb 2020 3:28

Tgt Ion:178 Resp: 194544
 Ion Ratio Lower Upper
 178 100
 176 19.8 17.7 26.5
 179 15.1 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: 12.749 ng

RT: 19.33 min Scan# 2764

Delta R.T. -0.01 min

Lab File: BG044466.D

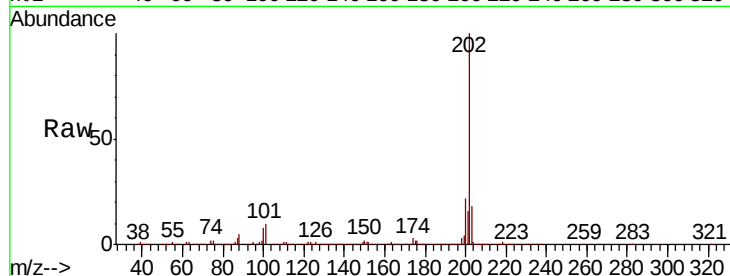
Acq: 18 Feb 2020 3:28

Instrument :

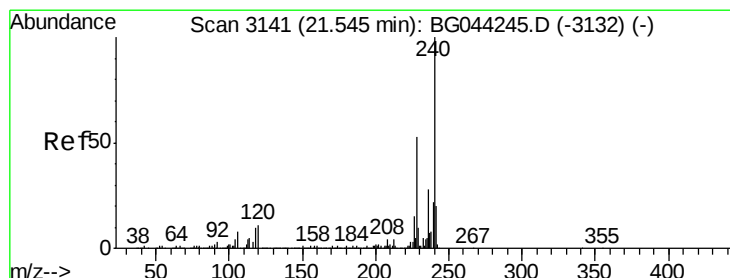
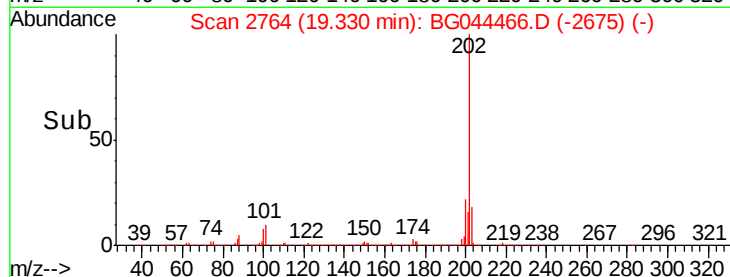
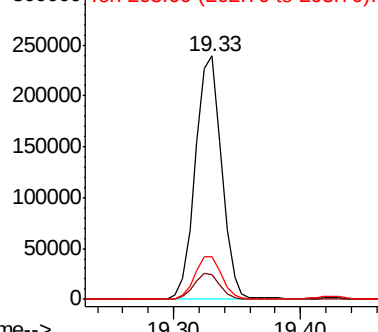
BNA_G

ClientSampleId :

Tot Ion:	202	Resp:	341686
Ion	Ratio	Lower	Upper
202	100		
101	10.2	0.0	31.3
203	17.7	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

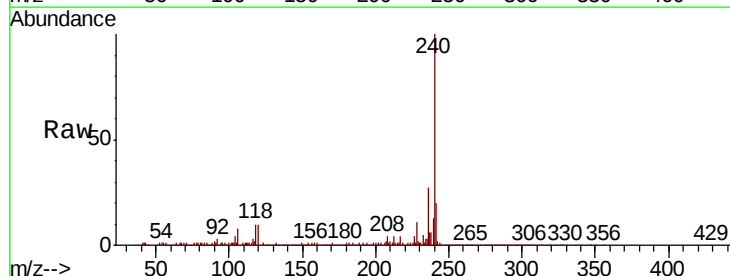
RT: 21.52 min Scan# 3136

Delta R.T. -0.02 min

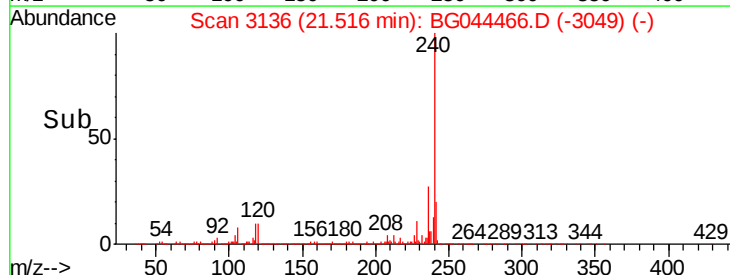
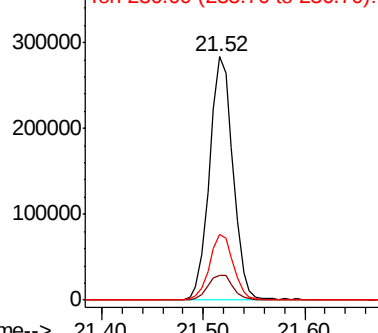
Lab File: BG044466.D

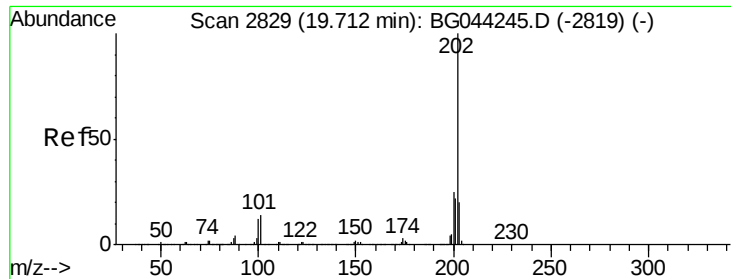
Acq: 18 Feb 2020 3:28

Tgt Ion:	240	Resp:	456350
Ion	Ratio	Lower	Upper
240	100		
120	10.4	8.4	12.6
236	27.0	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

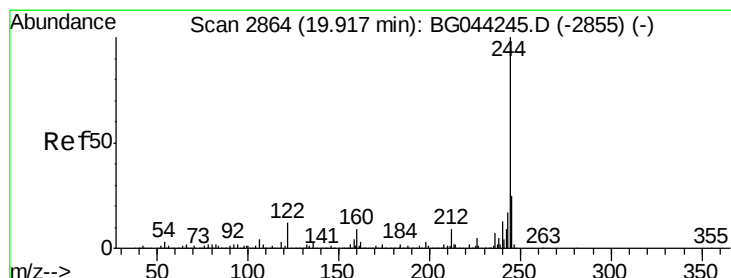
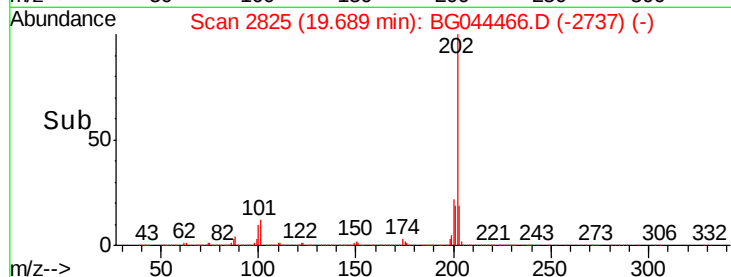
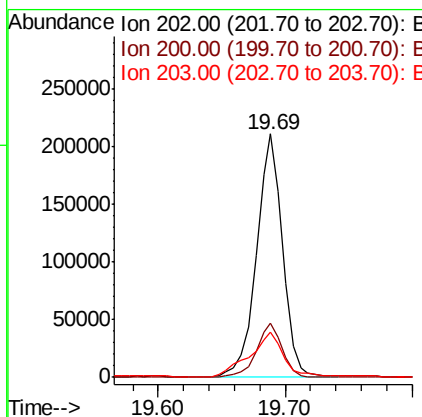
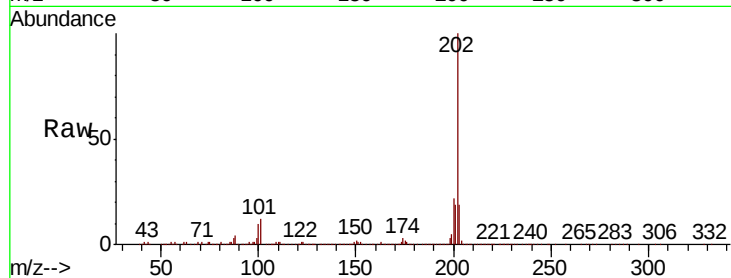




#78
Pvrene
Concen: 10.237 ng
RT: 19.69 min Scan# 2825
Delta R.T. -0.01 min
Lab File: BG044466.D
Acq: 18 Feb 2020 3:28

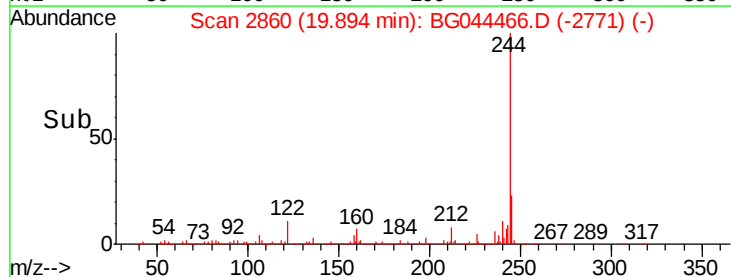
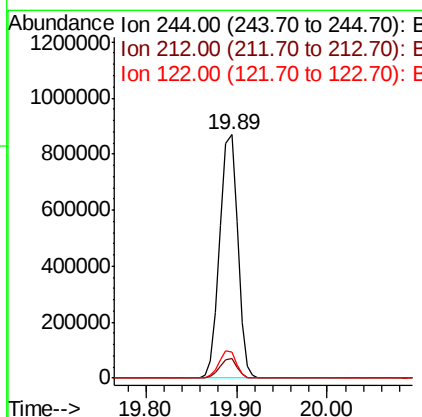
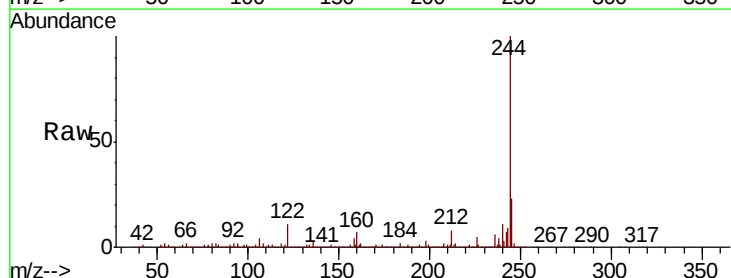
Instrument :
BNA_G
ClientSampleId :

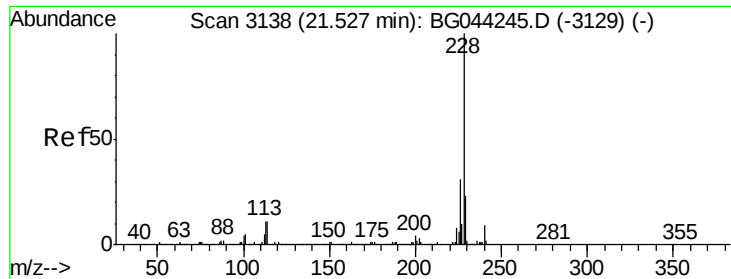
Tot Ion	Ratio	Lower	Upper
202	100		
200	22.1	20.0	30.0
203	18.6	16.2	24.2



#79
Terphenyl-d14
Concen: 53.879 ng
RT: 19.89 min Scan# 2860
Delta R.T. -0.01 min
Lab File: BG044466.D
Acq: 18 Feb 2020 3:28

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.1	7.4	11.2
122	10.7	9.8	14.6

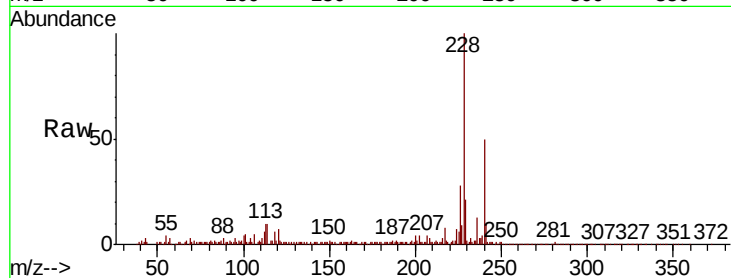




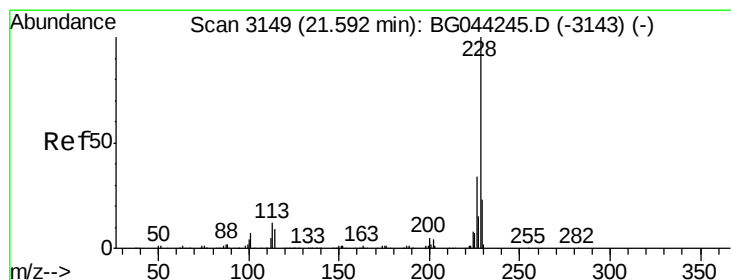
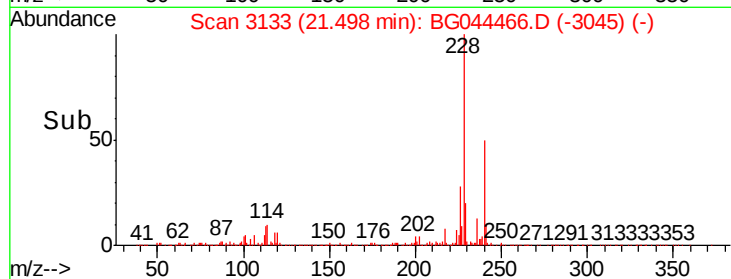
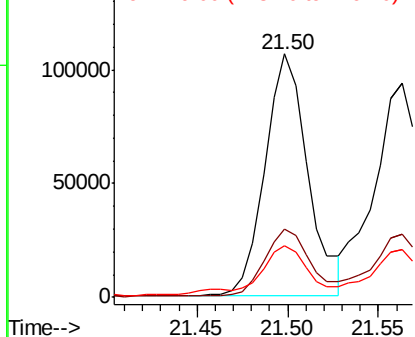
#81
Benzo(a)anthracene
Concen: 6.220 ng
RT: 21.50 min Scan# 3133
Delta R.T. -0.01 min
Lab File: BG044466.D
Acq: 18 Feb 2020 3:28

Instrument :
BNA_G
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.2	24.7	37.1
229	21.0	18.2	27.4

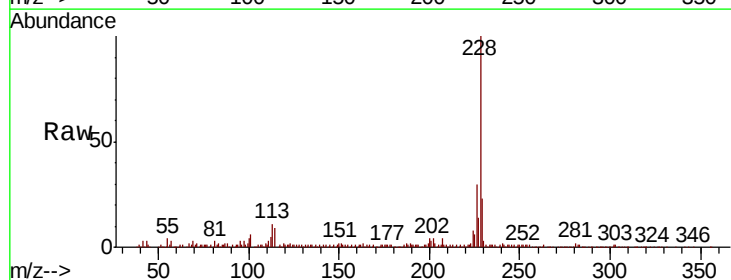


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

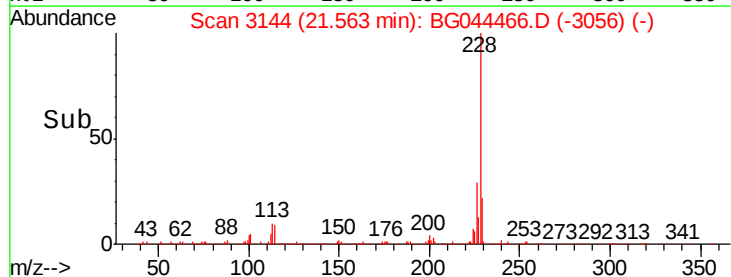
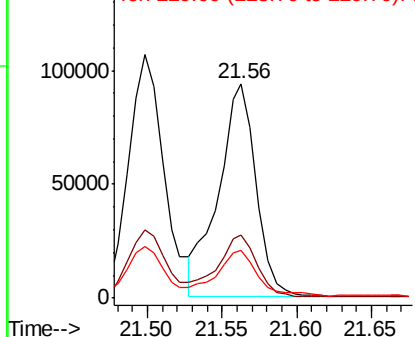


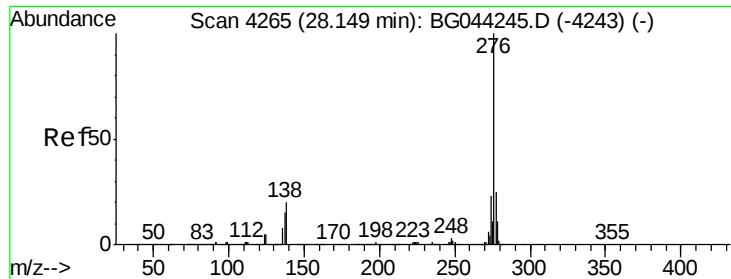
#83
Chrysene
Concen: 6.055 ng
RT: 21.56 min Scan# 3144
Delta R.T. -0.01 min
Lab File: BG044466.D
Acq: 18 Feb 2020 3:28

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.5	27.1	40.7
229	22.5	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: 3.300 ng

RT: 28.08 min Scan# 4253

Delta R.T. -0.04 min

Lab File: BG044466.D

Acq: 18 Feb 2020 3:28

Instrument :

BNA_G

ClientSampleId :

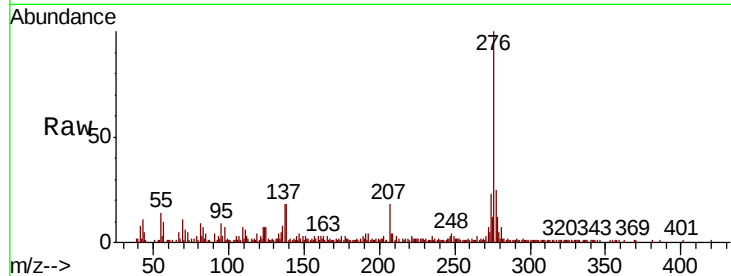
Tot Ion:276 Resp: 117052

Ion Ratio Lower Upper

276 100

138 22.1 19.4 29.0

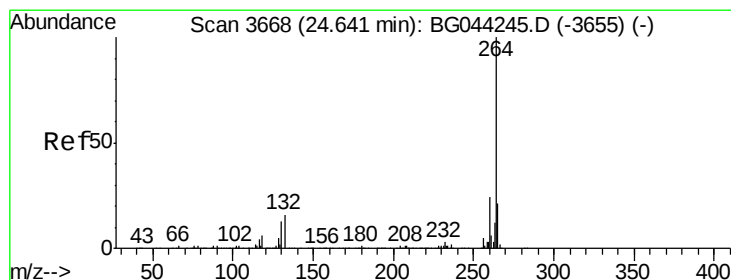
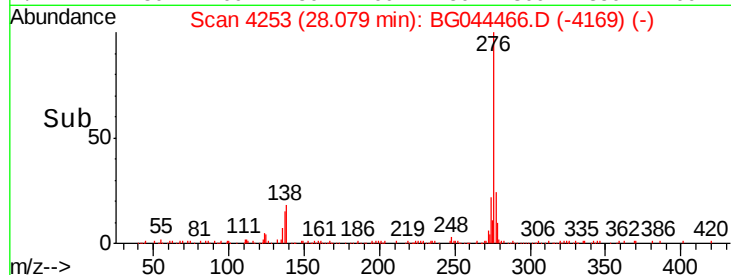
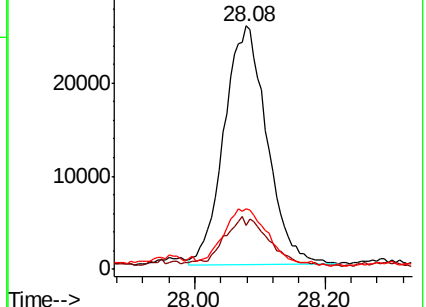
277 23.6 21.0 31.6



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

Perylene-d12

Concen: 20.000 ng

RT: 24.60 min Scan# 3661

Delta R.T. -0.02 min

Lab File: BG044466.D

Acq: 18 Feb 2020 3:28

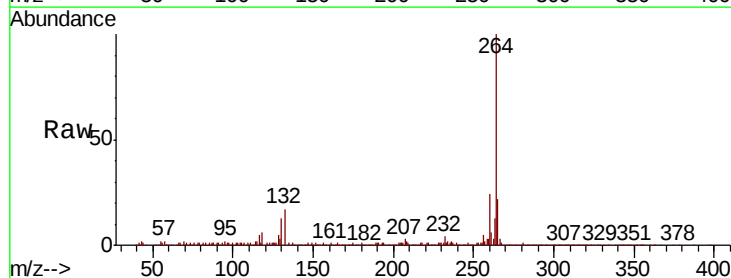
Tgt Ion:264 Resp: 488491

Ion Ratio Lower Upper

264 100

260 24.0 19.4 29.2

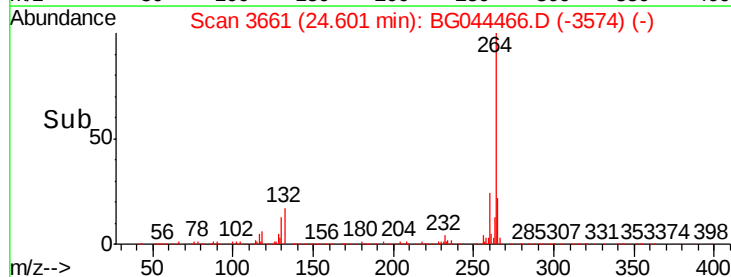
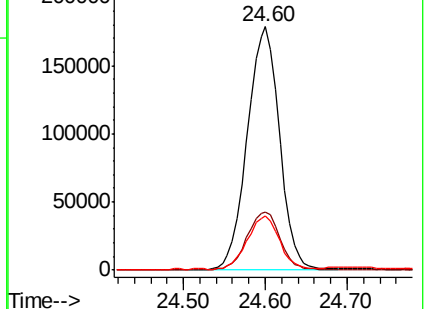
265 22.0 16.7 25.1

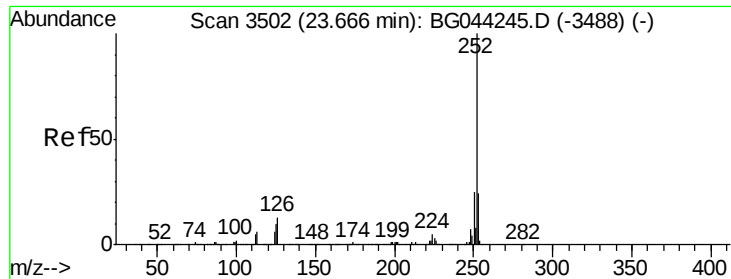


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

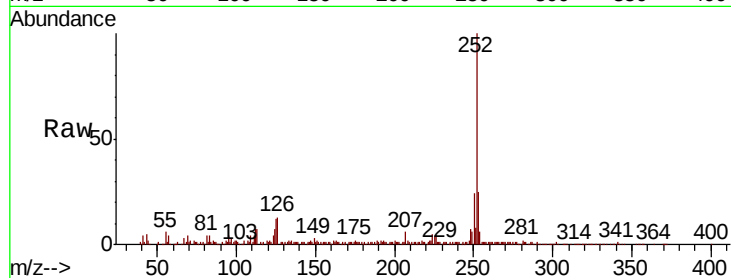




#88
Benzo(b)fluoranthene
Concen: 8.530 ng
RT: 23.63 min Scan# 3495
Delta R.T. -0.02 min
Lab File: BG044466.D
Acq: 18 Feb 2020 3:28

Instrument :
BNA_G
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.6	19.2	28.8
125	11.9	8.4	12.6

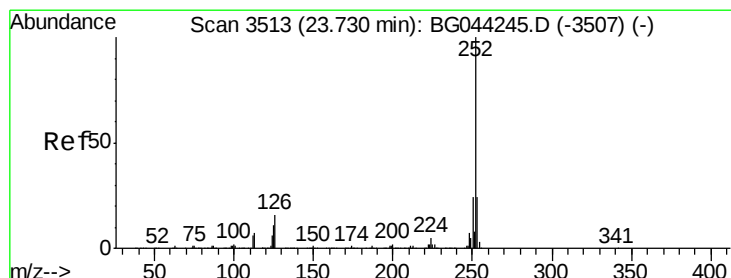
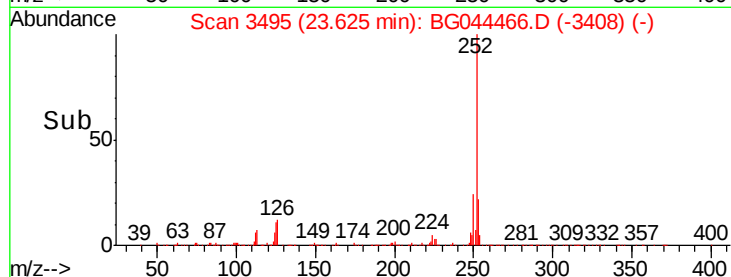
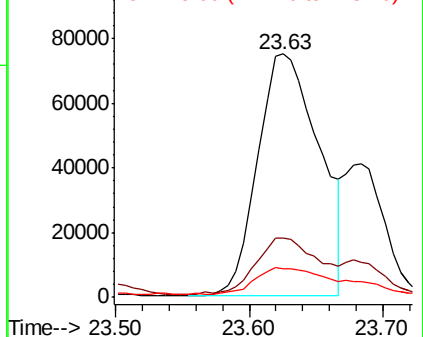


Abundance

Ion 252.00 (251.70 to 252.70): E

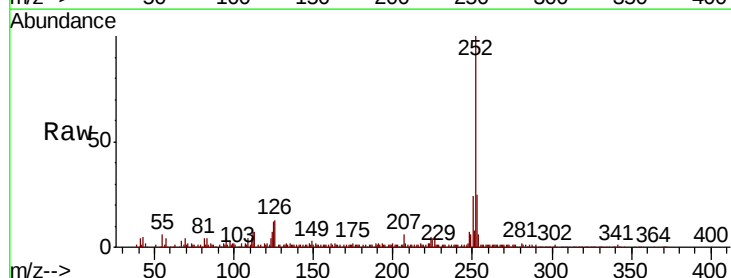
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89
Benzo(k)fluoranthene
Concen: 8.752 ng
RT: 23.63 min Scan# 3495
Delta R.T. -0.09 min
Lab File: BG044466.D
Acq: 18 Feb 2020 3:28

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.6	19.1	28.7
125	11.9	8.6	12.8

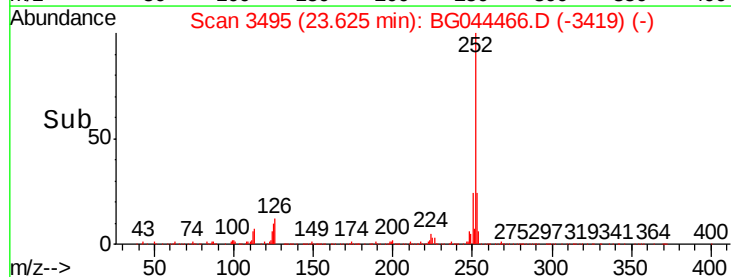
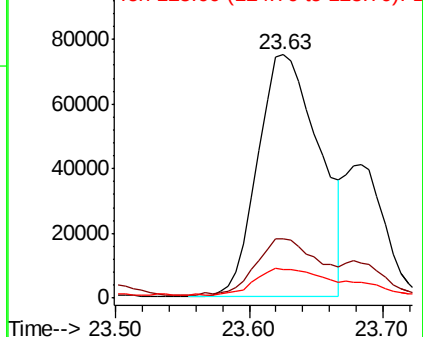


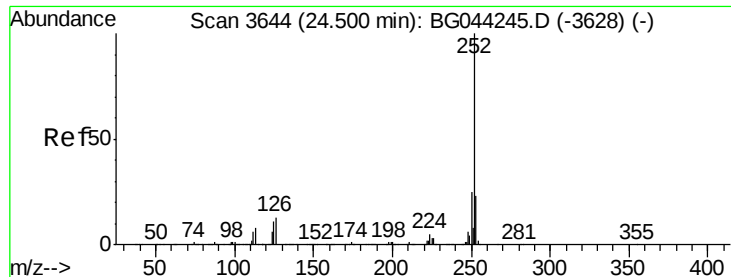
Abundance

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: 6.300 ng

RT: 24.45 min Scan# 3635

Delta R.T. -0.03 min

Lab File: BG044466.D

Acq: 18 Feb 2020 3:28

Instrument :

BNA_G

ClientSampleId :

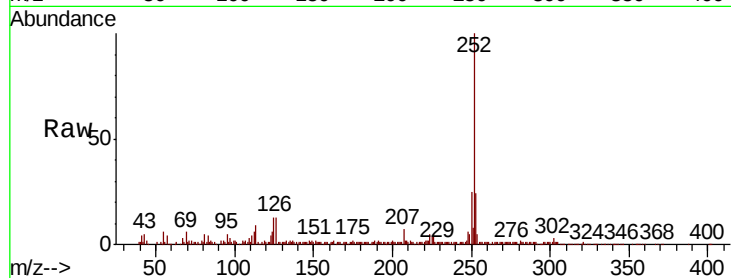
Tot Ion:252 Resp: 167677

Ion Ratio Lower Upper

252 100

253 23.9 18.1 27.1

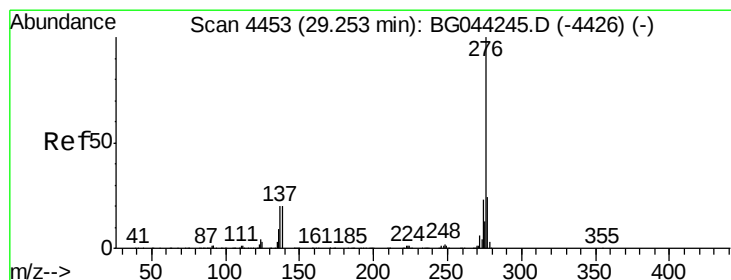
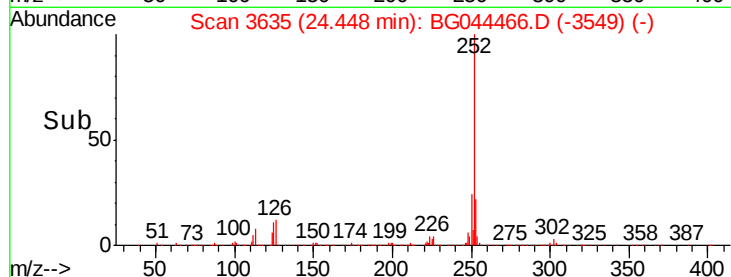
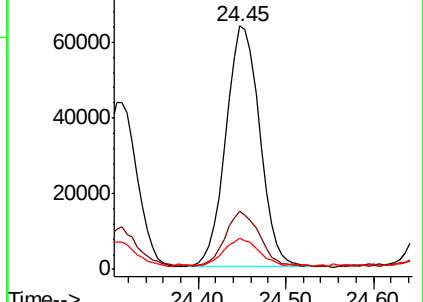
125 12.8 8.6 13.0



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(g,h,i)perylene

Concen: 4.390 ng

RT: 29.16 min Scan# 4437

Delta R.T. -0.04 min

Lab File: BG044466.D

Acq: 18 Feb 2020 3:28

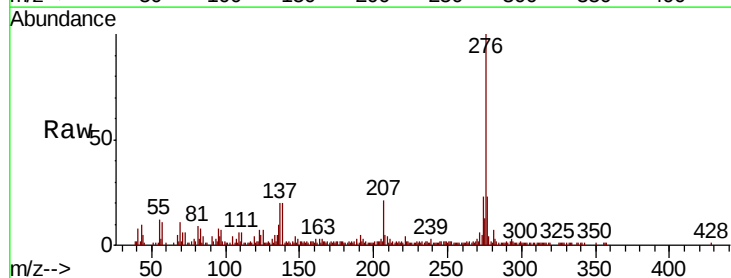
Tgt Ion:276 Resp: 115765

Ion Ratio Lower Upper

276 100

277 22.8 18.8 28.2

138 19.6 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

