

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG021920\
 Data File : BG044508.D
 Acq On : 20 Feb 2020 3:16
 Operator : CG/JU
 Sample : L1547-09
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Feb 20 07:19:57 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	64139	20.00	ng	-0.01
21) Naphthalene-d8	10.69	136	272101	20.00	ng	0.00
39) Acenaphthene-d10	14.53	164	183035	20.00	ng	-0.01
64) Phenanthrene-d10	17.27	188	398365	20.00	ng	-0.01
76) Chrysene-d12	21.52	240	373579	20.00	ng	-0.02
87) Perylene-d12	24.60	264	410253	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.47	112	364808	100.38	ng	0.00
7) Phenol-d6	7.07	99	495322	101.49	ng	0.00
23) Nitrobenzene-d5	9.05	82	304380	63.15	ng	-0.01
42) 2,4,6-Tribromophenol	16.02	330	205202	95.50	ng	0.00
45) 2-Fluorobiphenyl	13.15	172	738439	67.56	ng	-0.01
79) Terphenyl-d14	19.89	244	1134533	62.47	ng	0.00

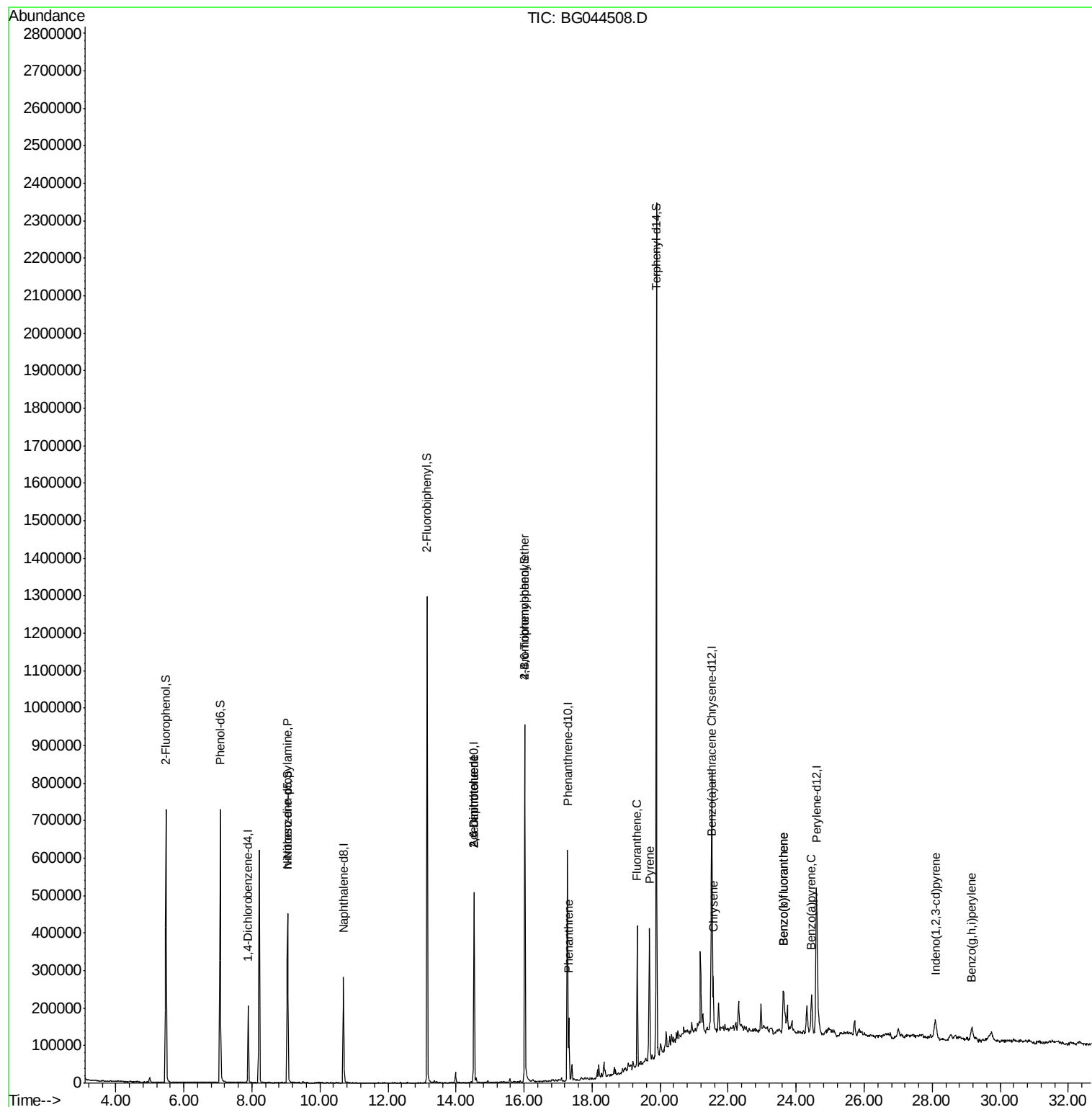
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	9.05	70	38633	11.878	ng	# 77
51) 2,6-Dinitrotoluene	14.53	165	23333	7.954	ng	# 30
57) 2,4-Dinitrotoluene	14.53	165	23333	5.675	ng	# 28
67) 4-Bromophenyl-phenylether	16.02	248	14421	3.323	ng	# 1
71) Phenanthrene	17.31	178	107601	5.578	ng	96
75) Fluoranthene	19.32	202	237824	10.658	ng	98
78) Pyrene	19.69	202	224196	9.345	ng	94
81) Benzo(a)anthracene	21.50	228	110682	4.807	ng	98
83) Chrysene	21.56	228	94213	4.233	ng	96
86) Indeno(1,2,3-cd)pyrene	28.09	276	74085	2.552	ng	94
88) Benzo(b)fluoranthene	23.63	252	140403	5.939	ng	95
89) Benzo(k)fluoranthene	23.63	252	140403	6.094	ng	95
90) Benzo(a)pyrene	24.45	252	109788	4.912	ng	98
92) Benzo(a,h,i)perylene	29.18	276	72530	3.275	ng	97

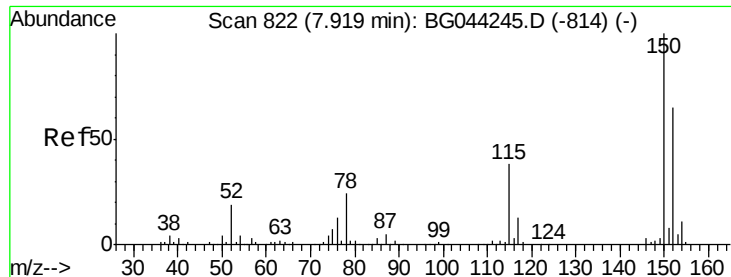
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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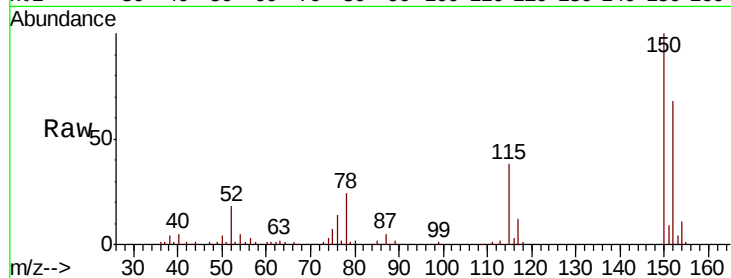


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.89 min Scan# 817
Delta R.T. -0.01 min
Lab File: BG044508.D
Acq: 20 Feb 2020 3:16

Instrument :
BNA_G
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	146.4	122.6	183.8
115	55.2	46.0	69.0

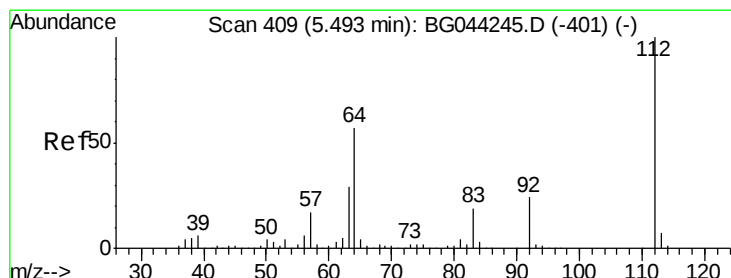
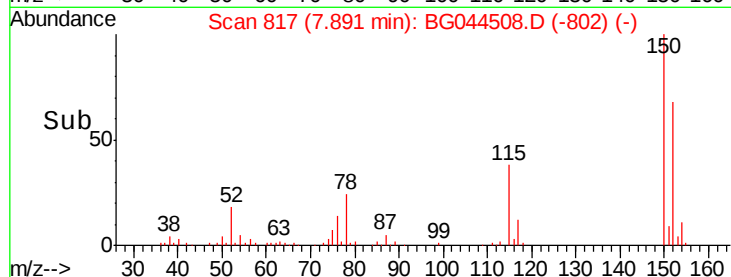
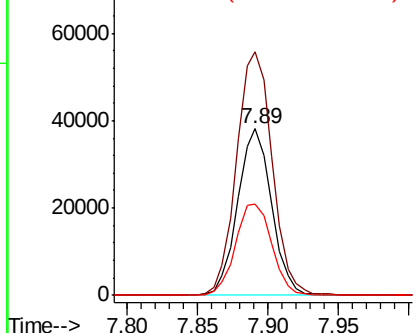


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

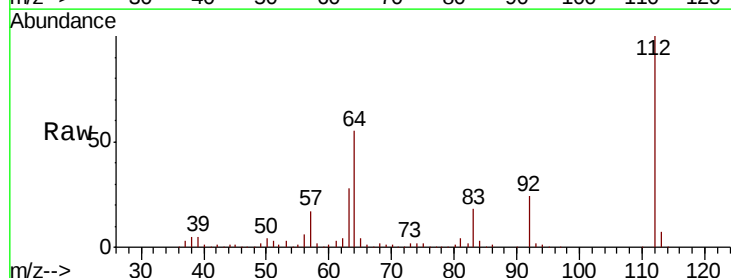
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 100.380 ng
RT: 5.47 min Scan# 405
Delta R.T. -0.01 min
Lab File: BG044508.D
Acq: 20 Feb 2020 3:16

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.3	45.4	68.2
63	28.4	22.9	34.3

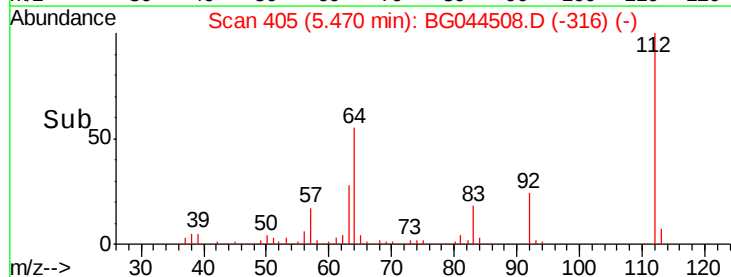
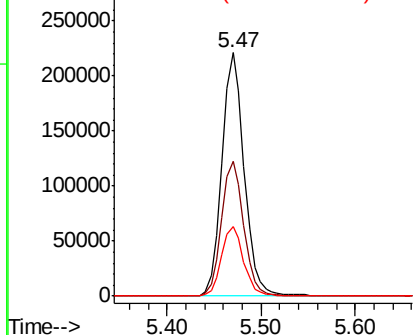


Abundance

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: 101.495 ng

RT: 7.07 min Scan# 677

Delta R.T. -0.01 min

Lab File: BG044508.D

Acq: 20 Feb 2020 3:16

Instrument :

BNA_G

ClientSampleId :

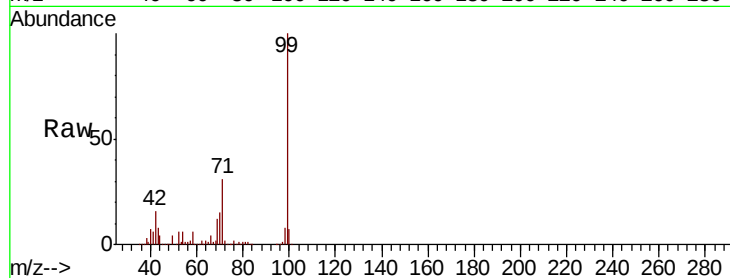
Tot Ion: 99 Resp: 495322

Ion Ratio Lower Upper

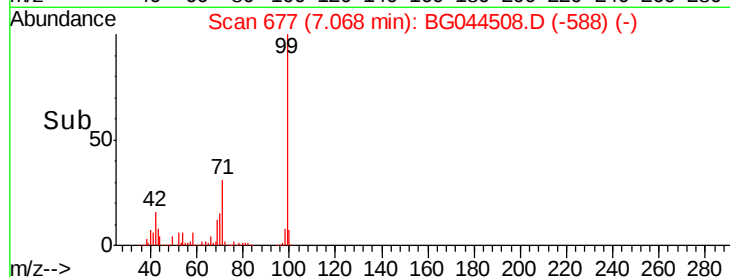
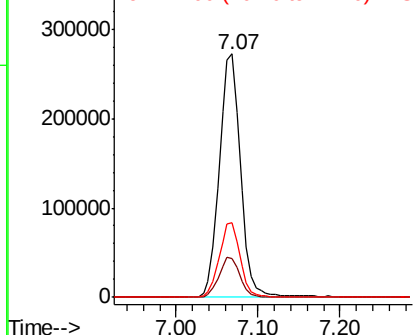
99 100

42 15.8 13.8 20.6

71 30.7 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: 11.878 ng

RT: 9.05 min Scan# 1014

Delta R.T. 0.34 min

Lab File: BG044508.D

Acq: 20 Feb 2020 3:16

Tgt Ion: 70 Resp: 38633

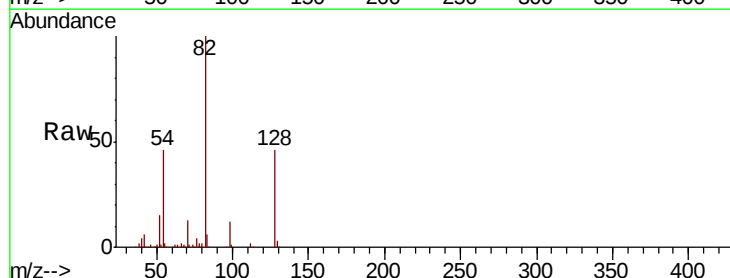
Ion Ratio Lower Upper

70 100

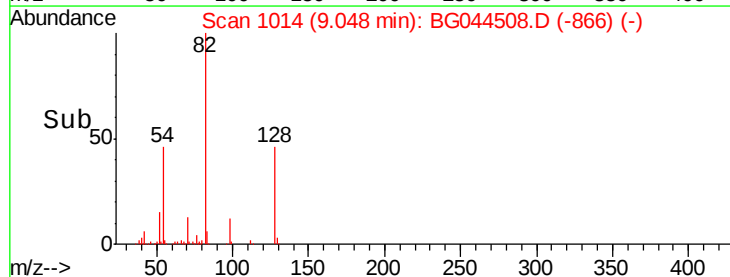
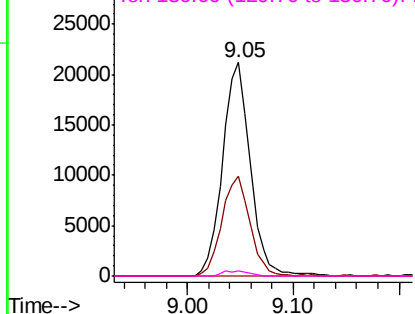
42 46.6 46.2 69.2

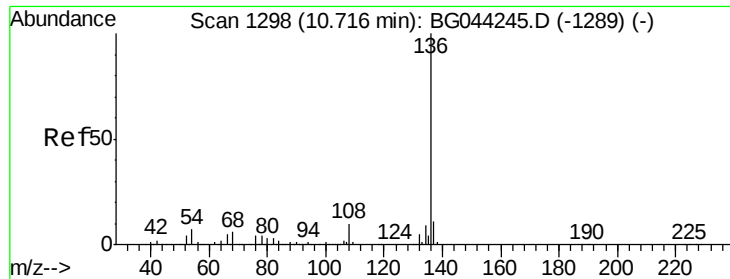
101 0.0 8.4 12.6#

130 2.4 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

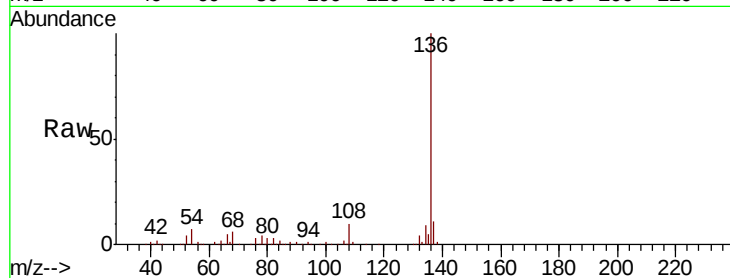




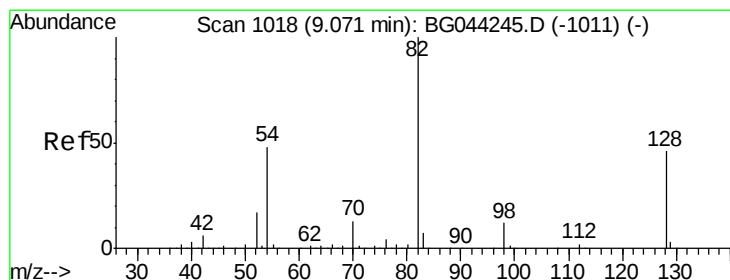
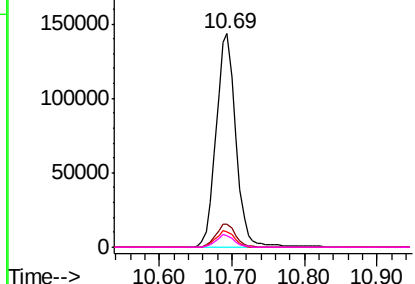
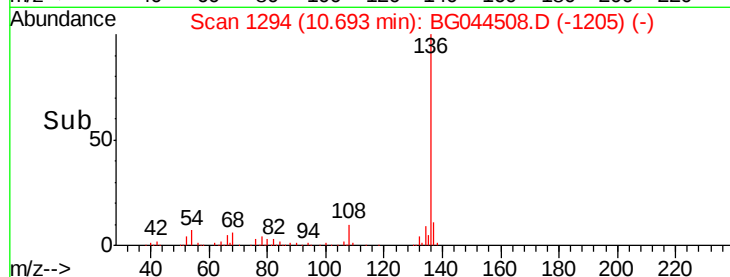
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.69 min Scan# 1294
Delta R.T. -0.01 min
Lab File: BG044508.D
Acq: 20 Feb 2020 3:16

Instrument :
BNA_G
ClientSampleId :

Tot Ion:136	Resp:	272101
Ion	Ratio	Lower Upper
136	100	
137	10.6	8.8 13.2
54	7.2	5.8 8.8
68	5.6	4.6 6.8

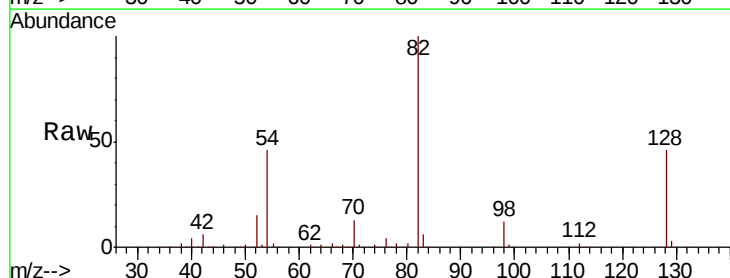


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BGC
Ion 68.00 (67.70 to 68.70): BGC

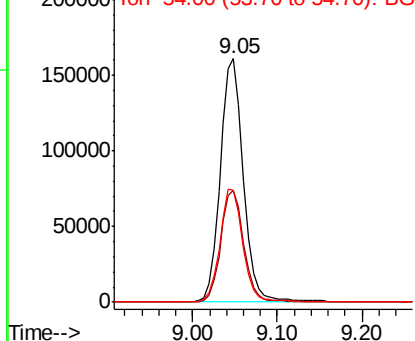
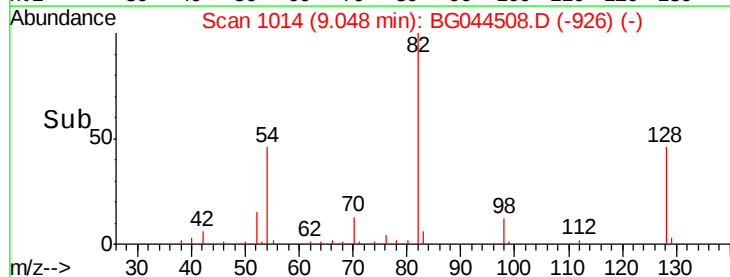


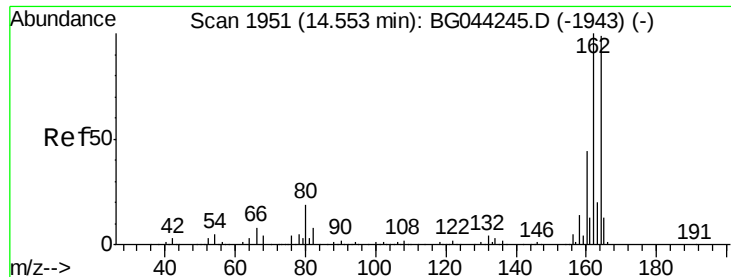
#23
Nitrobenzene-d5
Concen: 63.154 ng
RT: 9.05 min Scan# 1014
Delta R.T. -0.01 min
Lab File: BG044508.D
Acq: 20 Feb 2020 3:16

Tgt Ion: 82	Resp:	304380
Ion	Ratio	Lower Upper
82	100	
128	46.1	36.5 54.7
54	45.7	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: BG044508.D

Acq: 20 Feb 2020 3:16

Instrument :

BNA_G

ClientSampleId :

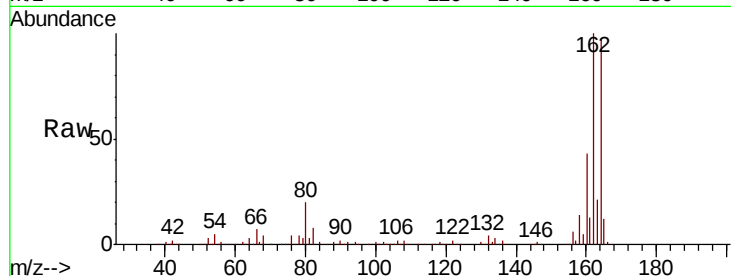
Tot Ion:164 Resp: 183035

Ion Ratio Lower Upper

164 100

162 102.8 80.7 121.1

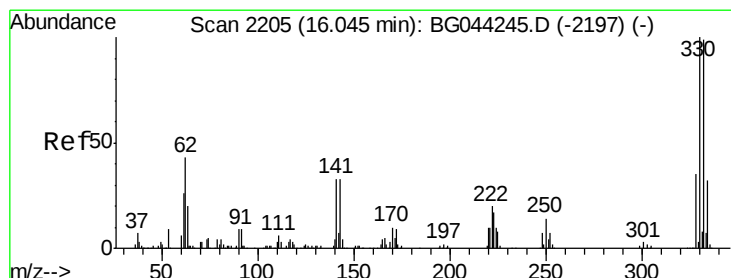
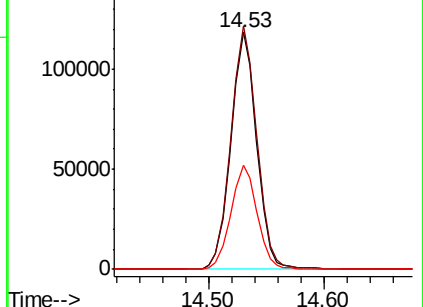
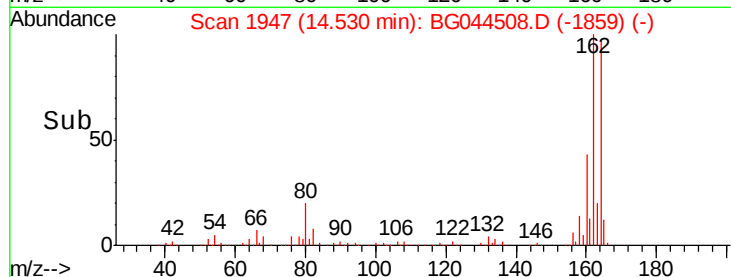
160 43.8 35.3 52.9



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: 95.499 ng

RT: 16.02 min Scan# 2201

Delta R.T. -0.01 min

Lab File: BG044508.D

Acq: 20 Feb 2020 3:16

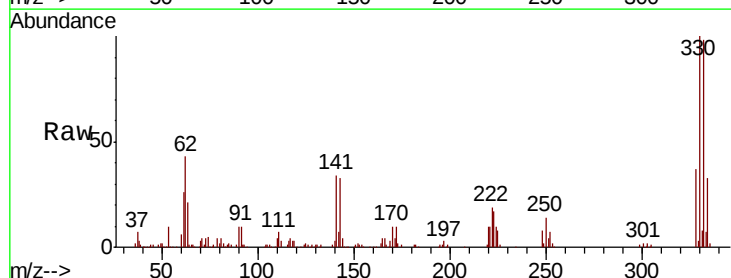
Tgt Ion:330 Resp: 205202

Ion Ratio Lower Upper

330 100

332 97.6 77.2 115.8

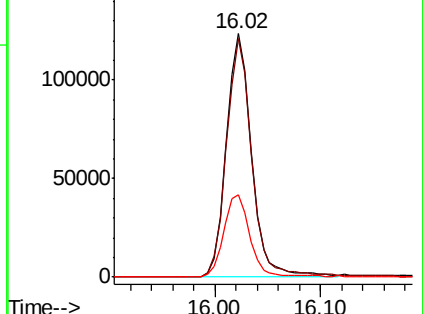
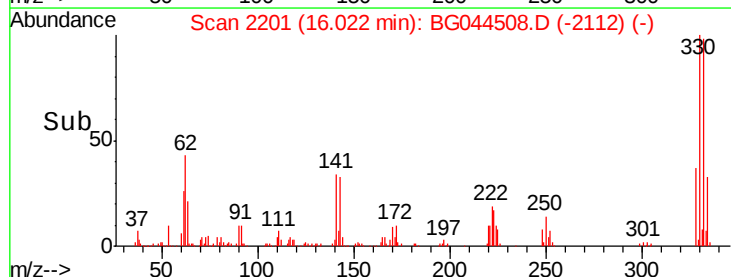
141 35.2 28.3 42.5

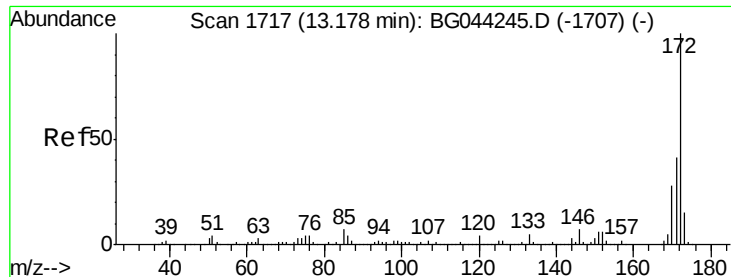


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

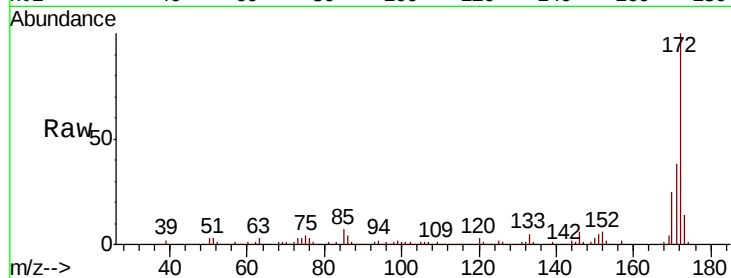




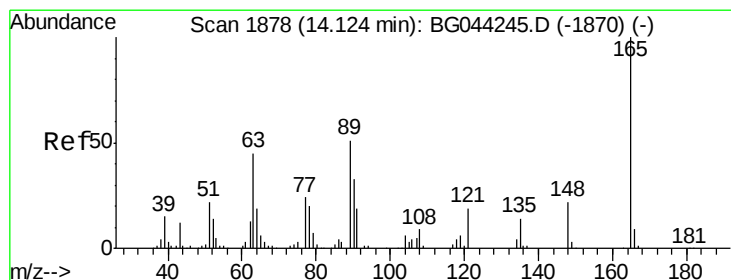
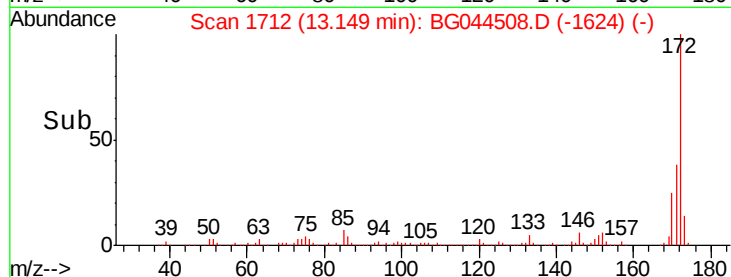
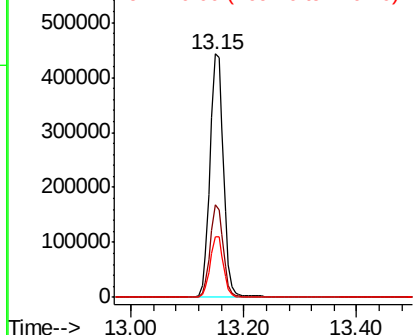
#45
 2-Fluorobiphenyl
 Concen: 67.558 ng
 RT: 13.15 min Scan# 1712
 Delta R.T. -0.01 min
 Lab File: BG044508.D
 Acq: 20 Feb 2020 3:16

Instrument :
 BNA_G
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
172	100		
171	37.9	32.9	49.3
170	24.9	22.0	33.0

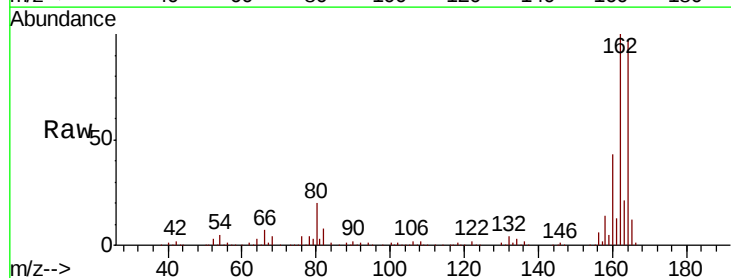


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

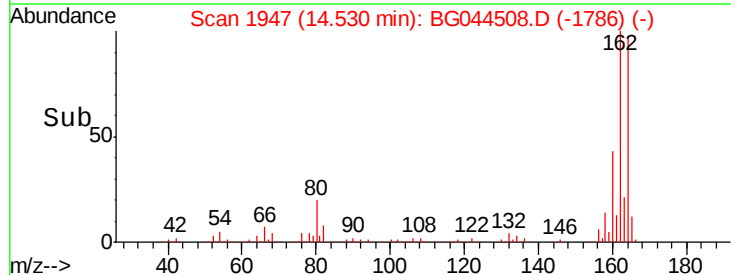
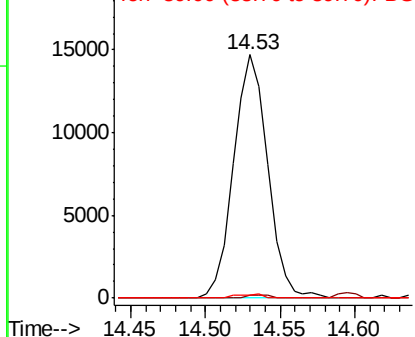


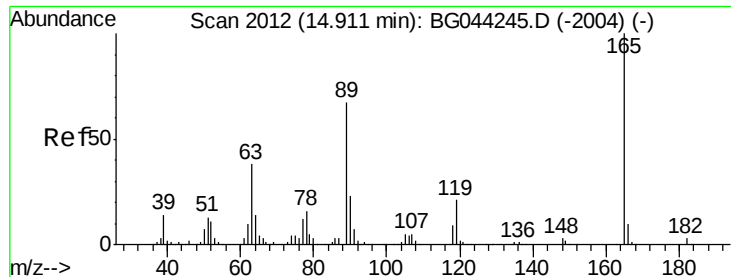
#51
 2,6-Dinitrotoluene
 Concen: 7.954 ng
 RT: 14.53 min Scan# 1947
 Delta R.T. 0.41 min
 Lab File: BG044508.D
 Acq: 20 Feb 2020 3:16

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.3	38.7	58.1#
89	1.5	40.4	60.6#



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

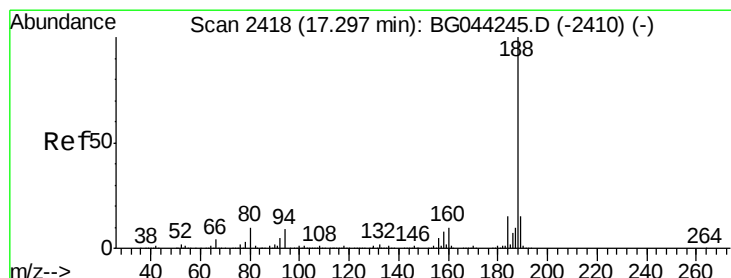
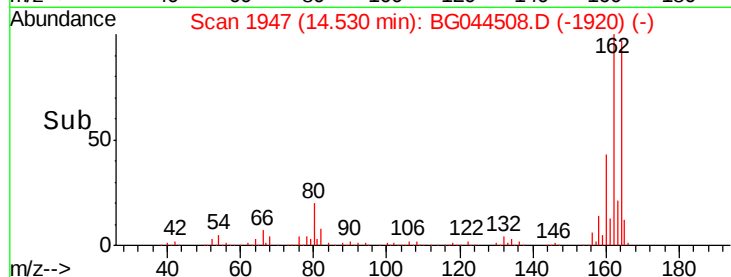
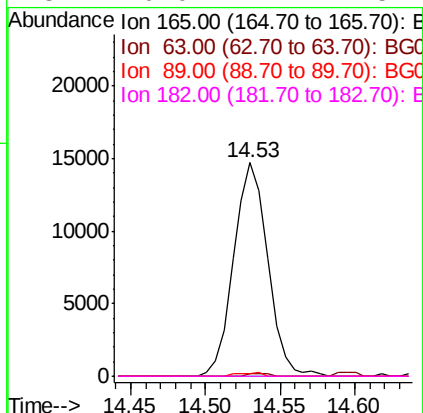
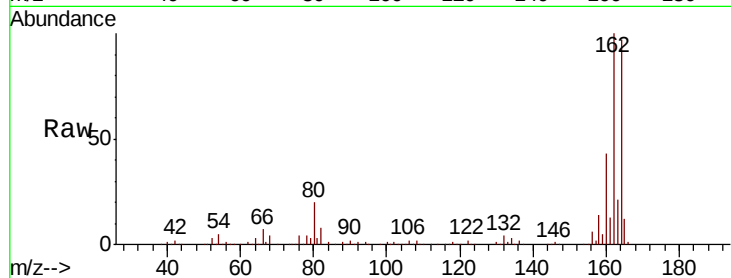




#57
 2,4-Dinitrotoluene
 Concen: 5.675 ng
 RT: 14.53 min Scan# 1947
 Delta R.T. -0.37 min
 Lab File: BG044508.D
 Acq: 20 Feb 2020 3:16

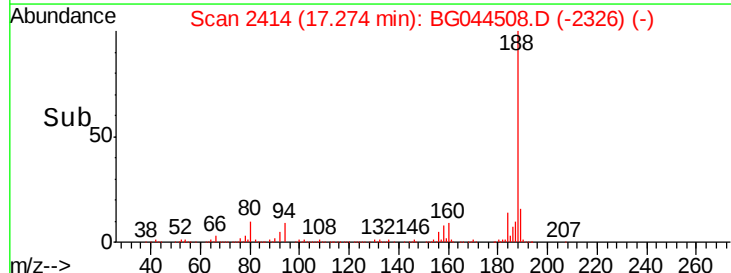
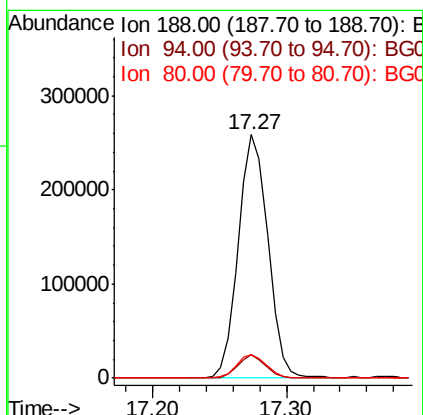
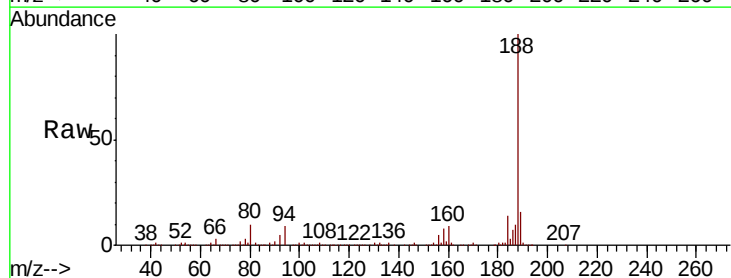
Instrument :
 BNA_G
 ClientSampleId :

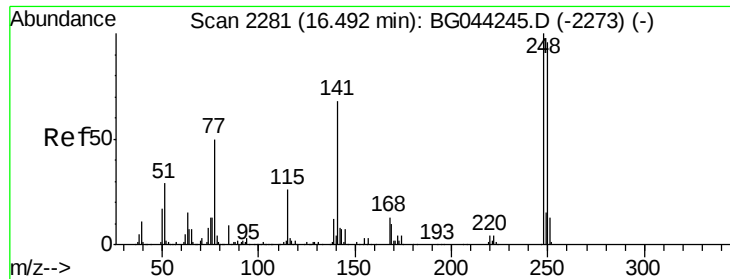
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.3	30.3	45.5#
89	1.5	53.4	80.2#
182	0.0	2.1	3.1#



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.27 min Scan# 2414
 Delta R.T. -0.01 min
 Lab File: BG044508.D
 Acq: 20 Feb 2020 3:16

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.4	7.4	11.2
80	9.7	7.7	11.5

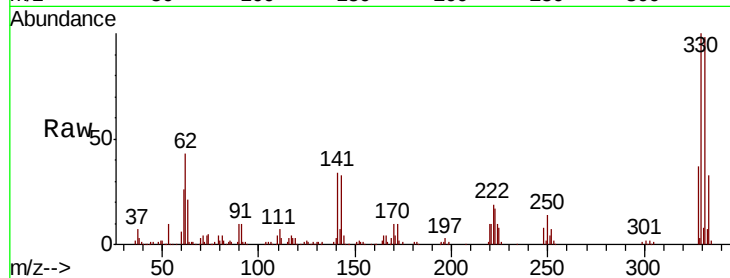




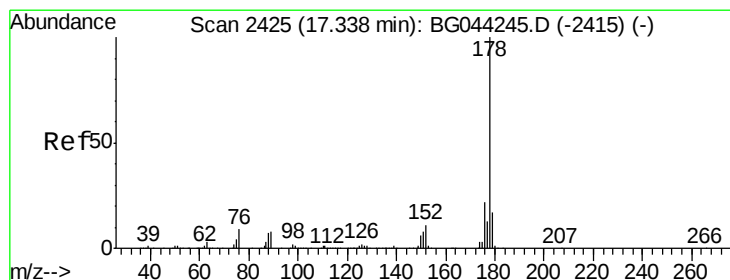
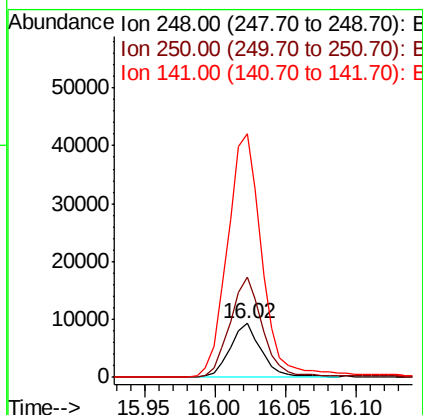
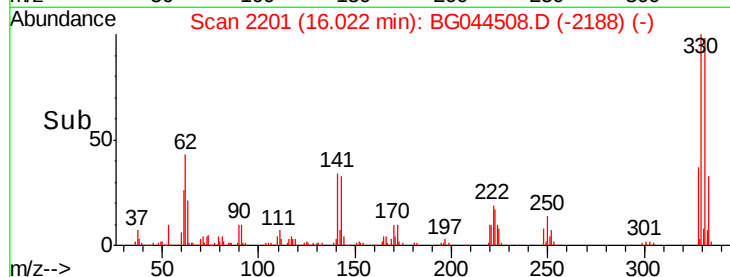
#67
 4-Bromophenyl-phenylether
 Concen: 3.323 ng
 RT: 16.02 min Scan# 2201
 Delta R.T. -0.46 min
 Lab File: BG044508.D
 Acq: 20 Feb 2020 3:16

Instrument :
 BNA_G
 ClientSampled :

Tot Ion:248 Resp: 14421
 Ion Ratio Lower Upper
 248 100
 250 187.5 76.6 114.8#
 141 452.6 54.7 82.1#

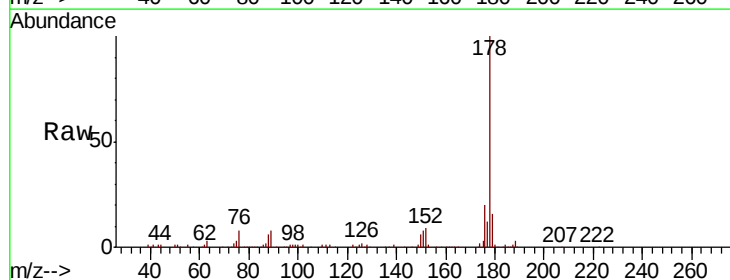


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

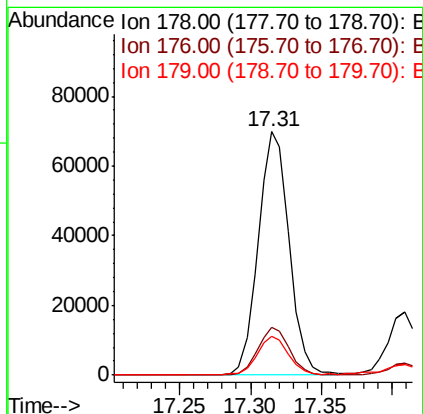
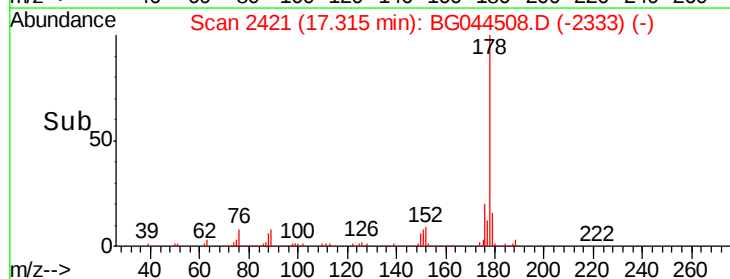


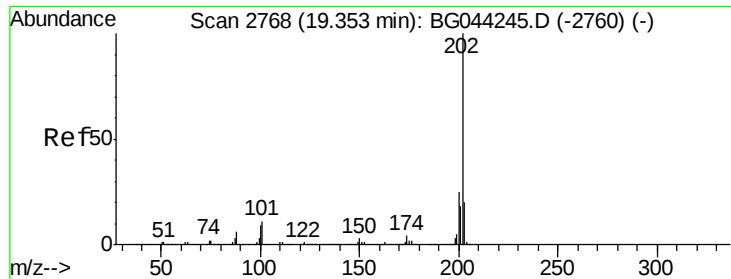
#71
 Phenanthrene
 Concen: 5.578 ng
 RT: 17.31 min Scan# 2421
 Delta R.T. -0.01 min
 Lab File: BG044508.D
 Acq: 20 Feb 2020 3:16

Tgt Ion:178 Resp: 107601
 Ion Ratio Lower Upper
 178 100
 176 19.6 17.7 26.5
 179 16.0 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: 10.658 ng

RT: 19.32 min Scan# 2763

Delta R.T. -0.01 min

Lab File: BG044508.D

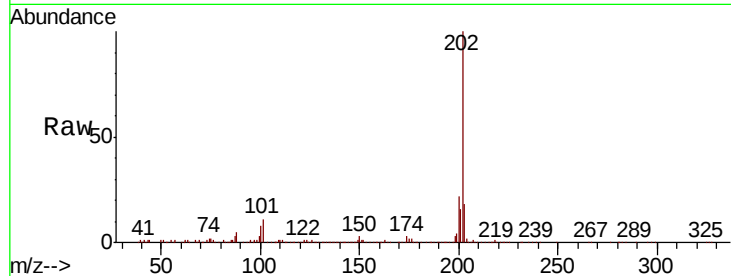
Acq: 20 Feb 2020 3:16

Instrument :

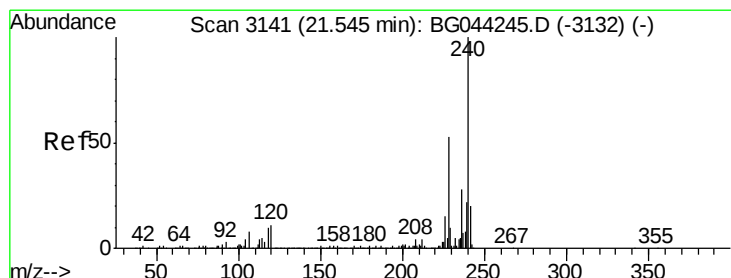
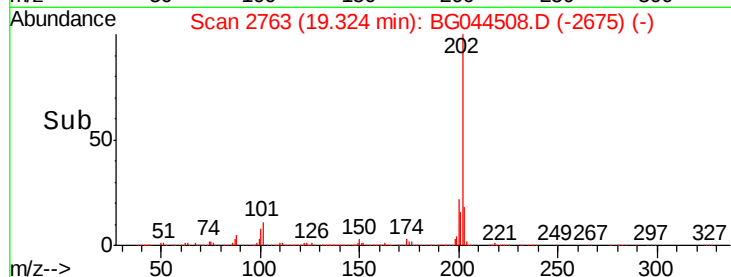
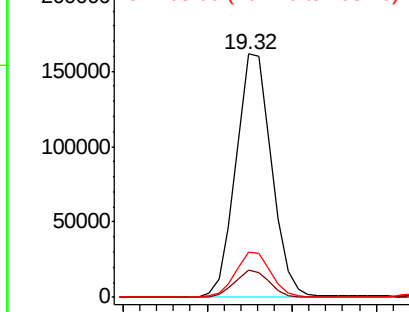
BNA_G

ClientSampleId :

Tot Ion:	202	Resp:	237824
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

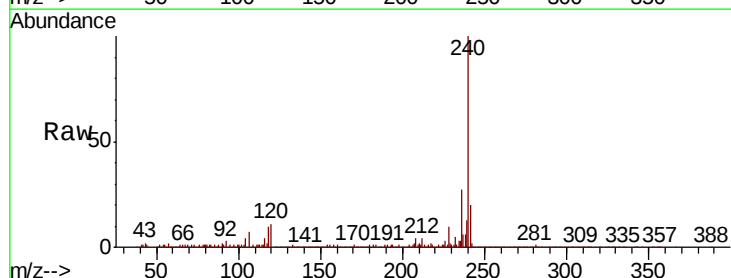
RT: 21.52 min Scan# 3136

Delta R.T. -0.02 min

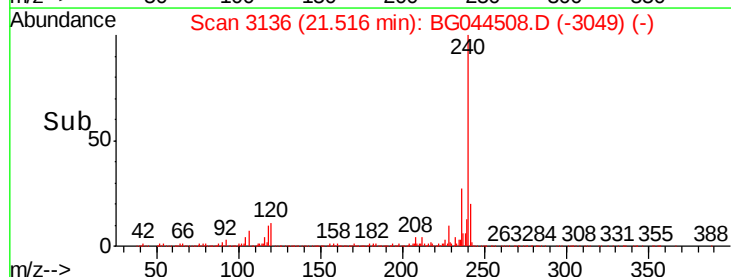
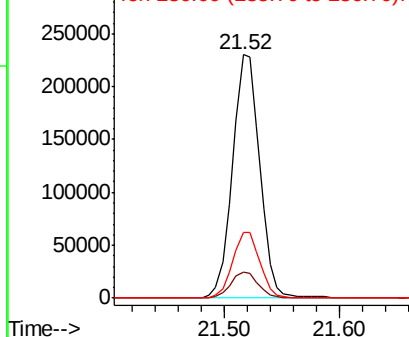
Lab File: BG044508.D

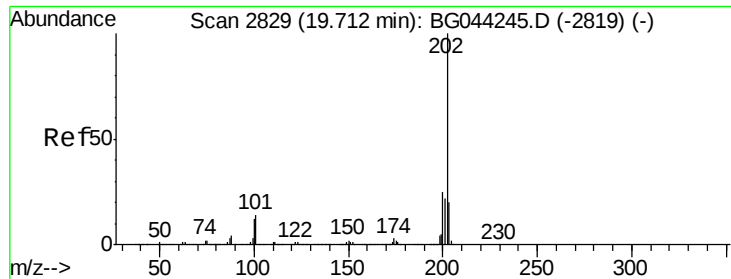
Acq: 20 Feb 2020 3:16

Tgt Ion:	240	Resp:	373579
Ion	Ratio	Lower	Upper
240	100		
120	10.8	8.4	12.6
236	27.1	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

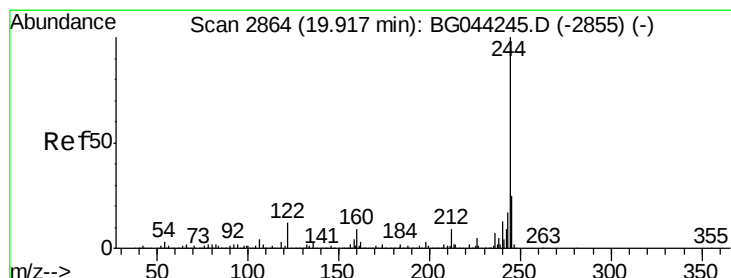
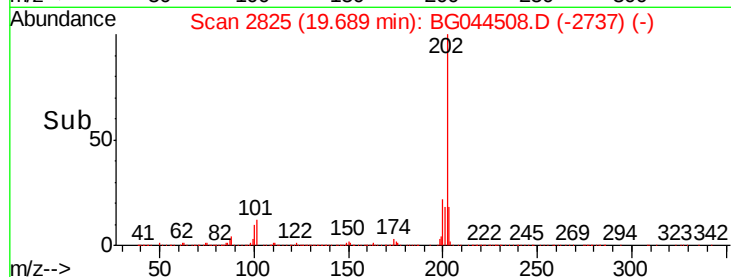
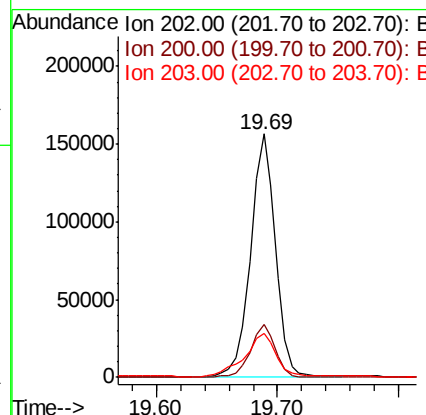
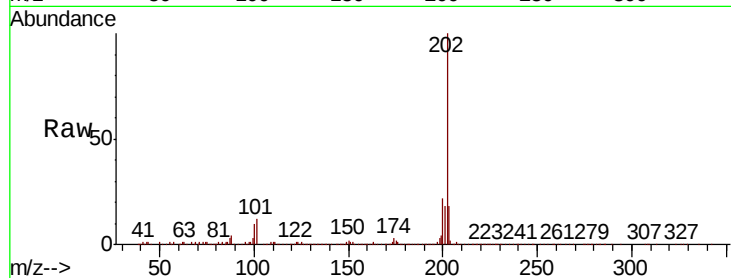




#78
Pvrene
Concen: 9.345 ng
RT: 19.69 min Scan# 2825
Delta R.T. -0.01 min
Lab File: BG044508.D
Acq: 20 Feb 2020 3:16

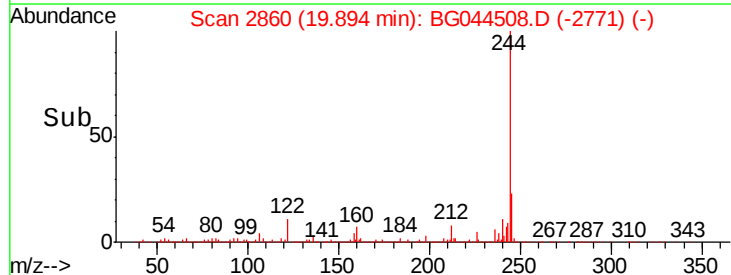
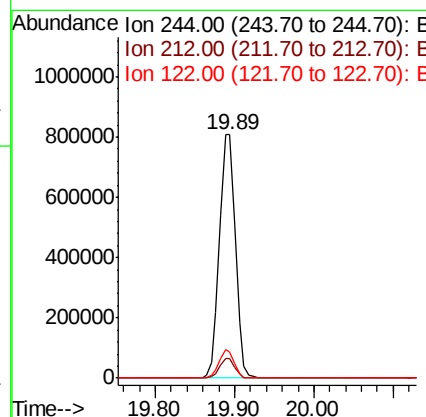
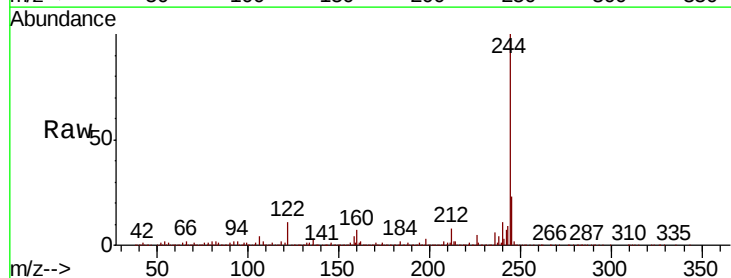
Instrument :
BNA_G
ClientSampleId :

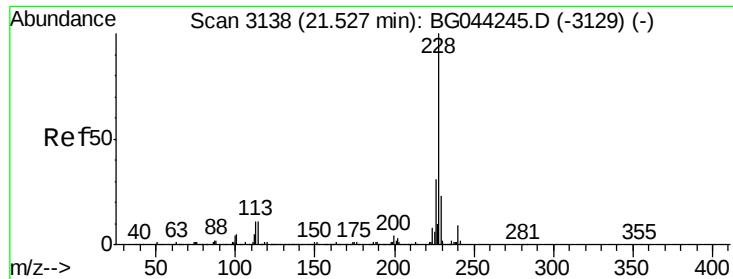
Tot Ion	Ratio	Lower	Upper
202	100		
200	21.7	20.0	30.0
203	18.1	16.2	24.2



#79
Terphenyl-d14
Concen: 62.466 ng
RT: 19.89 min Scan# 2860
Delta R.T. -0.01 min
Lab File: BG044508.D
Acq: 20 Feb 2020 3:16

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.0	7.4	11.2
122	10.6	9.8	14.6

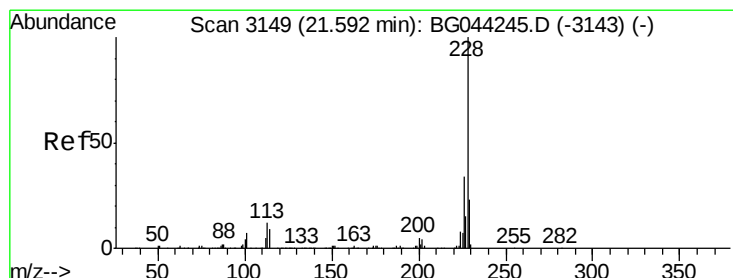
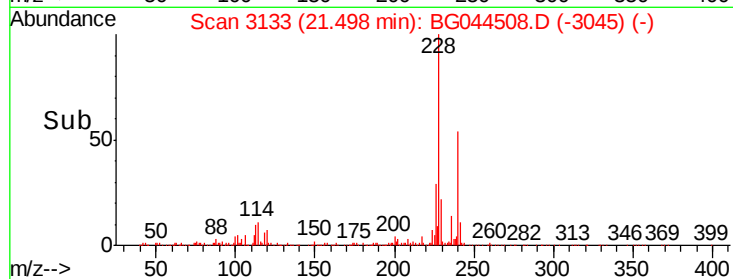
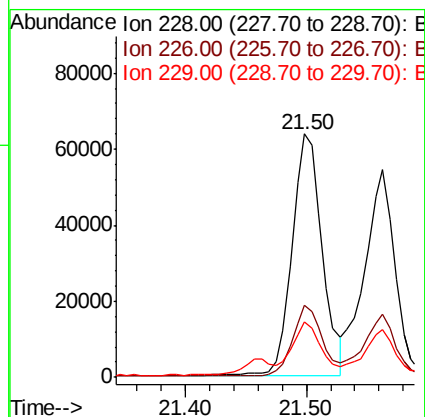
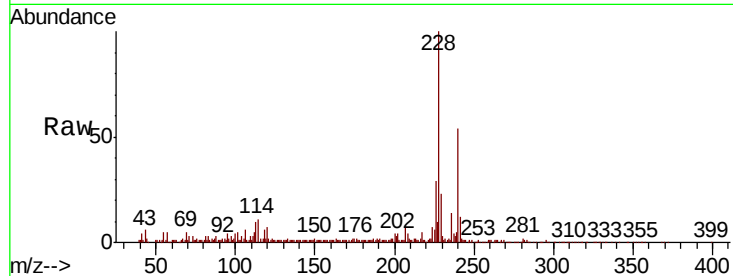




#81
Benzo(a)anthracene
Concen: 4.807 ng
RT: 21.50 min Scan# 3133
Delta R.T. -0.01 min
Lab File: BG044508.D
Acq: 20 Feb 2020 3:16

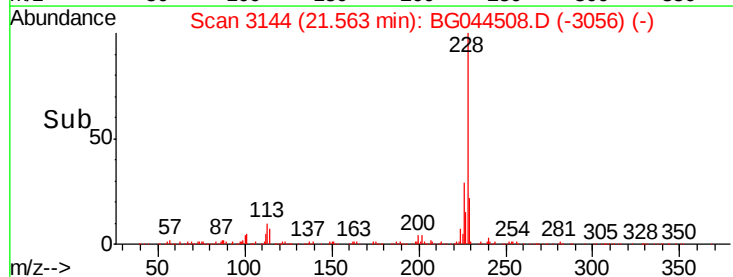
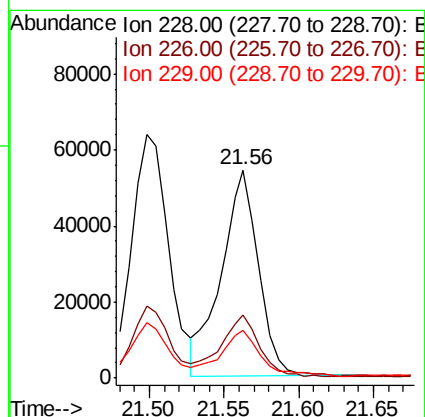
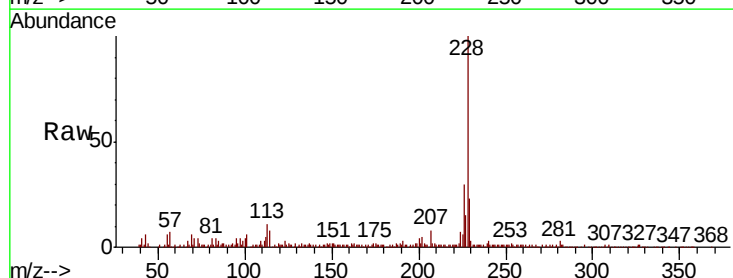
Instrument :
BNA_G
ClientSampleId :

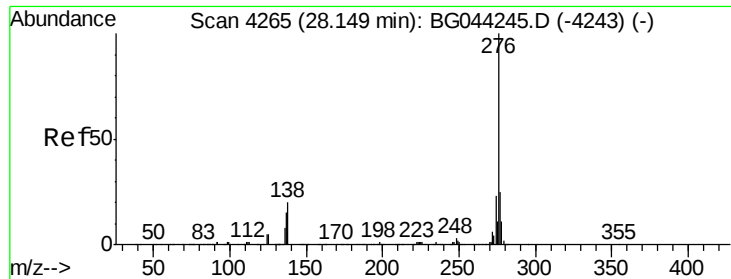
Tot Ion	Ratio	Lower	Upper
228	100		
226	29.5	24.7	37.1
229	23.0	18.2	27.4



#83
Chrysene
Concen: 4.233 ng
RT: 21.56 min Scan# 3144
Delta R.T. -0.01 min
Lab File: BG044508.D
Acq: 20 Feb 2020 3:16

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.3	27.1	40.7
229	22.9	17.9	26.9





#86

Indeno(1,2,3-cd)pyrene

Concen: 2.552 ng

RT: 28.09 min Scan# 4255

Delta R.T. -0.03 min

Lab File: BG044508.D

Acq: 20 Feb 2020 3:16

Instrument :

BNA_G

ClientSampleId :

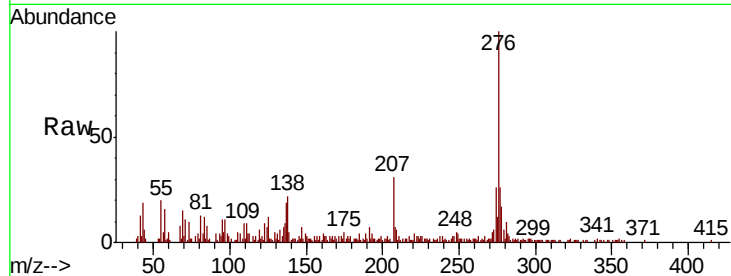
Tot Ion:276 Resp: 74085

Ion Ratio Lower Upper

276 100

138 20.0 19.4 29.0

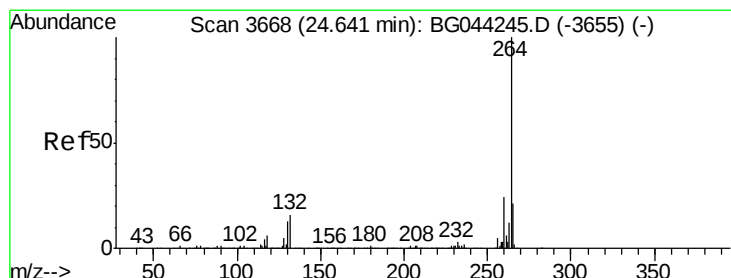
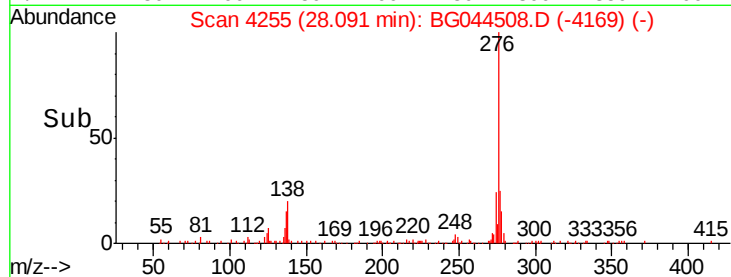
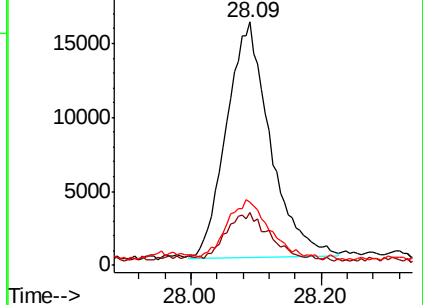
277 24.4 21.0 31.6



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: BG044508.D

Acq: 20 Feb 2020 3:16

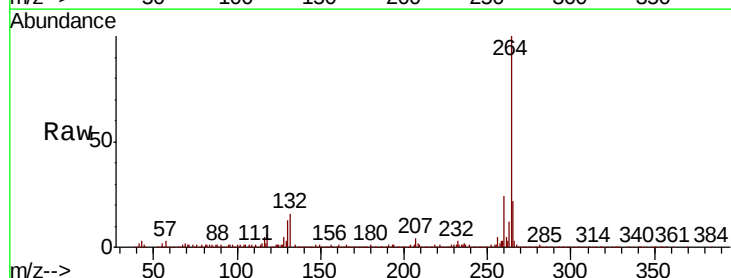
Tgt Ion:264 Resp: 410253

Ion Ratio Lower Upper

264 100

260 24.3 19.4 29.2

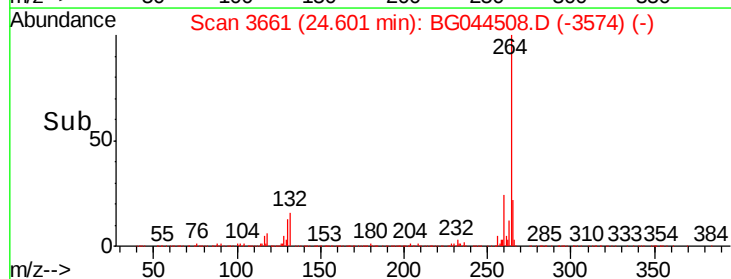
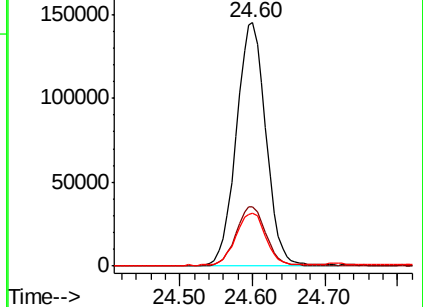
265 22.0 16.7 25.1

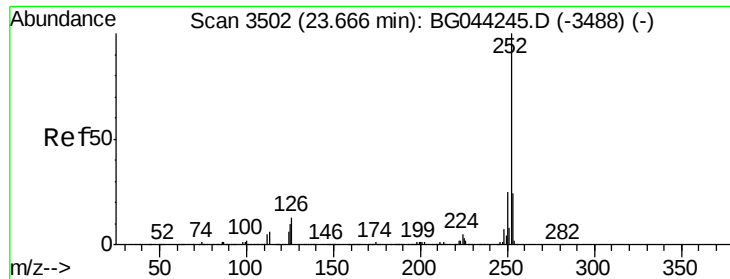


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

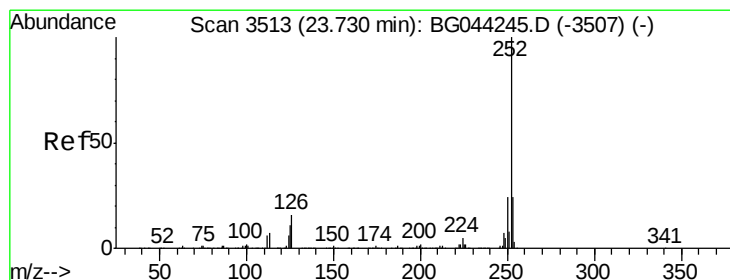
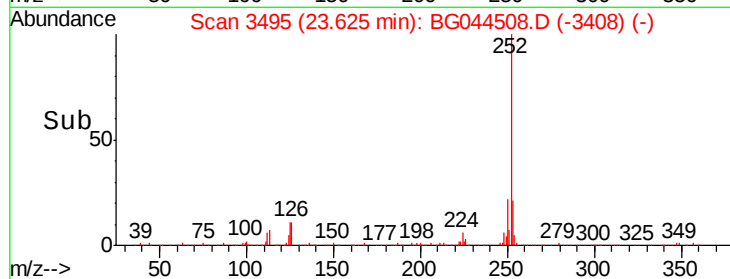
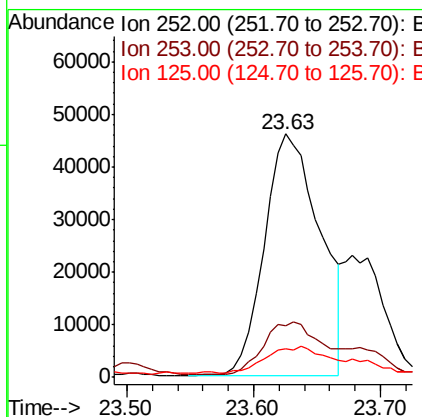
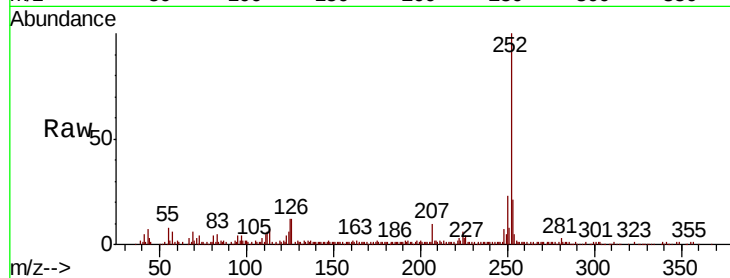




#88
Benzo(b)fluoranthene
Concen: 5.939 ng
RT: 23.63 min Scan# 3495
Delta R.T. -0.02 min
Lab File: BG044508.D
Acq: 20 Feb 2020 3:16

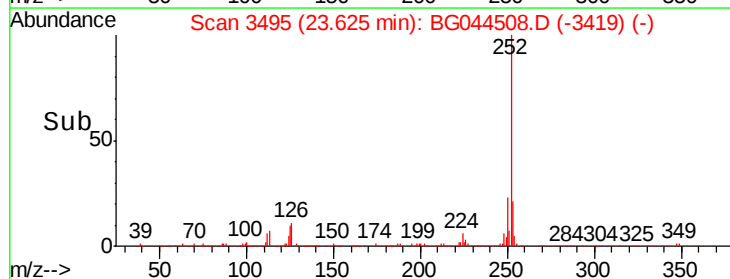
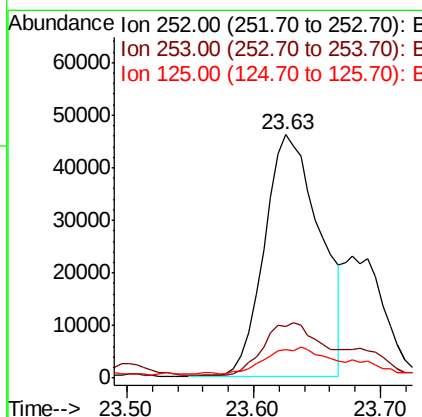
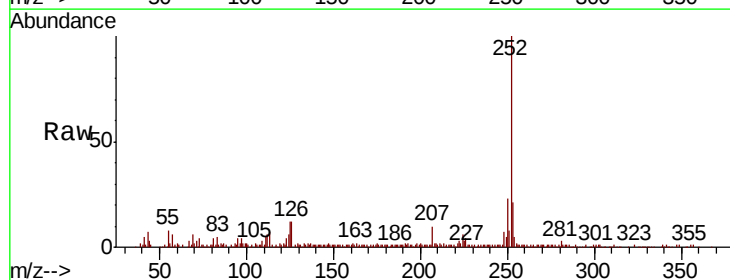
Instrument :
BNA_G
ClientSampleId :

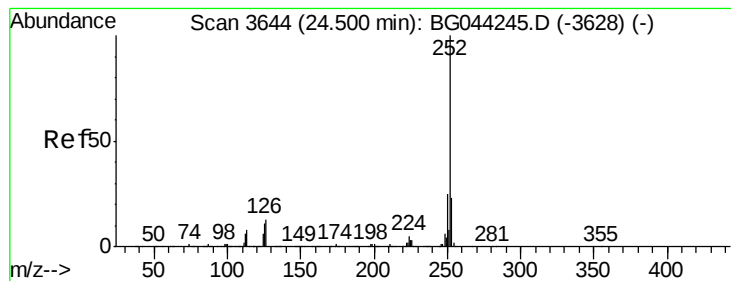
Tot Ion	Ratio	Lower	Upper
252	100		
253	21.3	19.2	28.8
125	11.9	8.4	12.6



#89
Benzo(k)fluoranthene
Concen: 6.094 ng
RT: 23.63 min Scan# 3495
Delta R.T. -0.09 min
Lab File: BG044508.D
Acq: 20 Feb 2020 3:16

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.3	19.1	28.7
125	11.9	8.6	12.8





#90

Benzo(a)pyrene

Concen: 4.912 ng

RT: 24.45 min Scan# 3636

Delta R.T. -0.02 min

Lab File: BG044508.D

Acq: 20 Feb 2020 3:16

Instrument :

BNA_G

ClientSampleId :

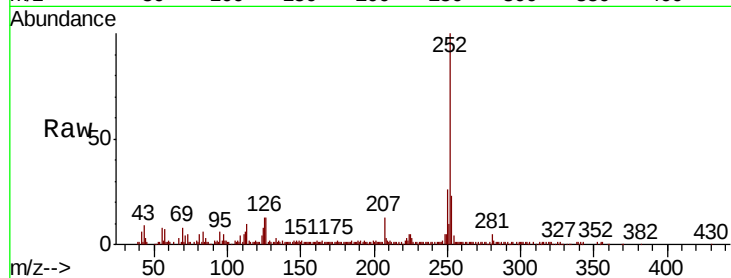
Tot Ion:252 Resp: 109788

Ion Ratio Lower Upper

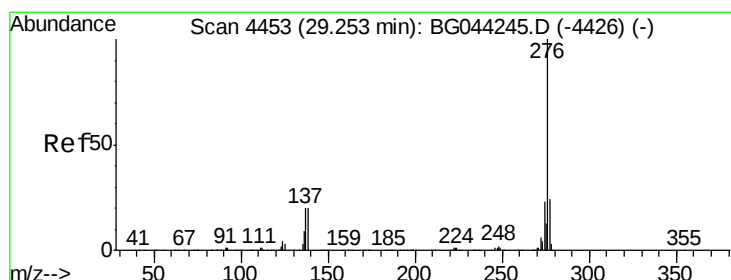
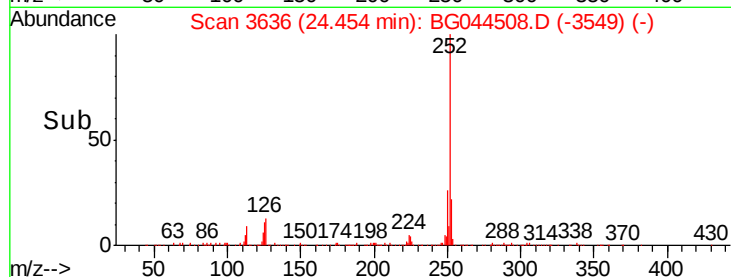
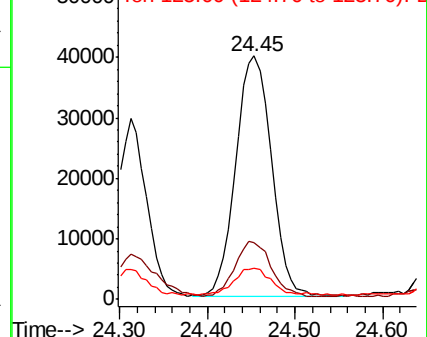
252 100

253 23.1 18.1 27.1

125 12.6 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: 3.275 ng

RT: 29.18 min Scan# 4440

Delta R.T. -0.03 min

Lab File: BG044508.D

Acq: 20 Feb 2020 3:16

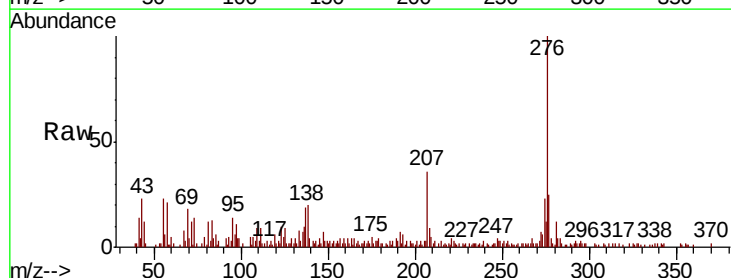
Tgt Ion:276 Resp: 72530

Ion Ratio Lower Upper

276 100

277 25.5 18.8 28.2

138 19.5 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

