

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG040820\
 Data File : BG044973.D
 Acq On : 8 Apr 2020 12:39
 Operator : CG/JU
 Sample : L2135-08DL 5X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SB-3K-(0-2)DL

Quant Time: Apr 08 13:16:20 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG031020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 08 13:01:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.05	152	105589	20.00	ng	0.00
21) Naphthalene-d8	10.85	136	393729	20.00	ng	0.00
39) Acenaphthene-d10	14.68	164	248159	20.00	ng	0.00
64) Phenanthrene-d10	17.43	188	484790	20.00	ng	0.00
76) Chrysene-d12	21.70	240	473041	20.00	ng	0.00
87) Perylene-d12	24.92	264	509854	20.00	ng	0.03

System Monitoring Compounds						
5) 2-Fluorophenol	5.62	112	94768	13.97	ng	0.00
7) Phenol-d6	7.20	99	137335	13.94	ng	0.00
23) Nitrobenzene-d5	9.20	82	93182	10.39	ng	0.00
42) 2,4,6-Tribromophenol	16.16	330	44150	13.59	ng	0.00
45) 2-Fluorobiphenyl	13.30	172	184674	10.66	ng	0.00
79) Terphenyl-d14	20.04	244	259245	10.25	ng	0.00

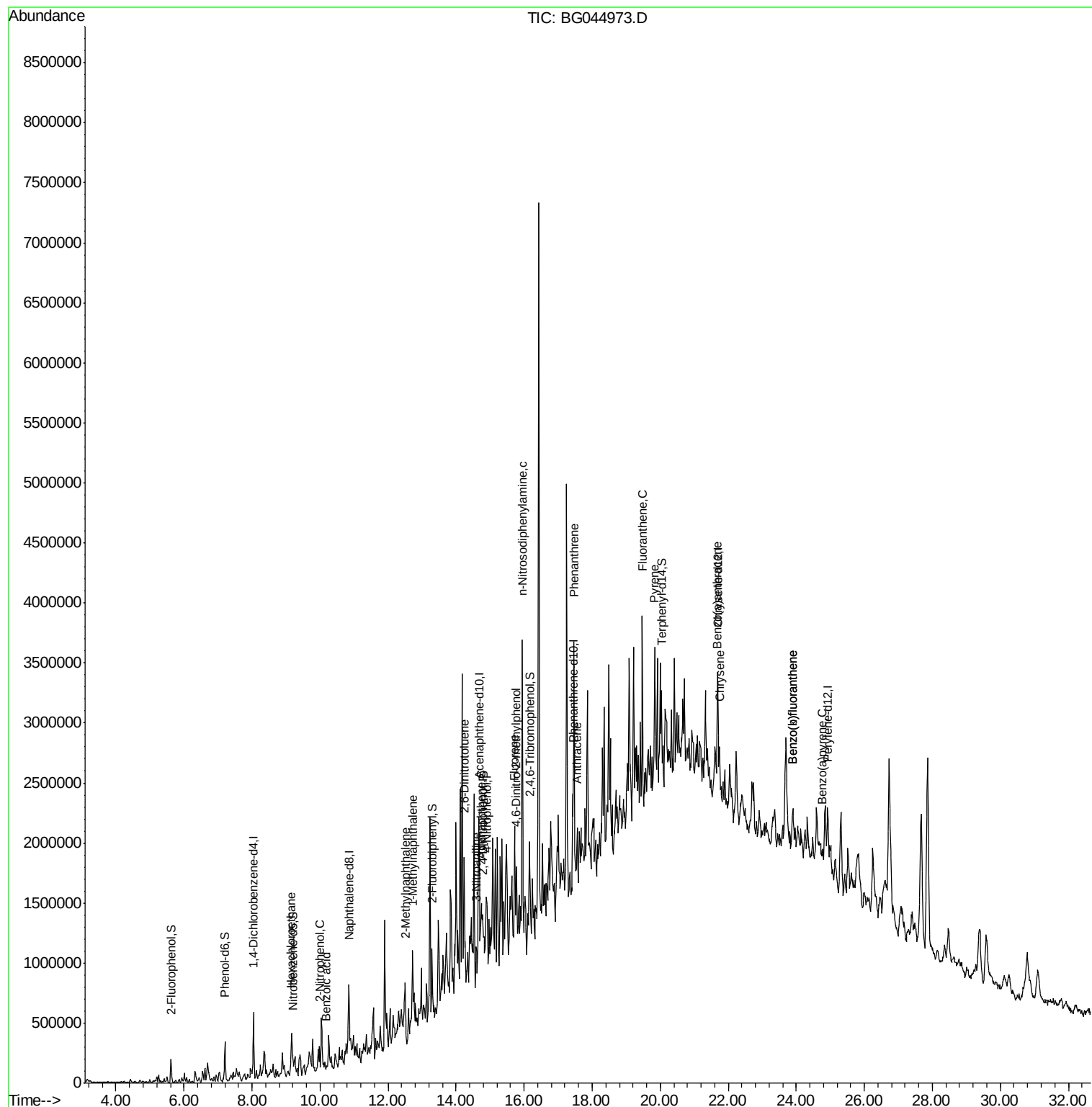
Target Compounds				Qvalue		
9) Benzaldehyde	7.19	77	3069	Below Cal	#	6
18) Hexachloroethane	9.16	117	23221	7.153	ng	# 1
26) 2-Nitrophenol	9.98	139	2538	6.210	ng	# 1
32) Benzoic acid	10.18	122	1125	9.872	ng	# 18
37) 2-Methylnaphthalene	12.50	142	160791	9.855	ng	95
38) 1-Methylnaphthalene	12.73	142	286080	18.651	ng	# 99
51) 2,6-Dinitrotoluene	14.24	165	10483	2.631	ng	# 66
52) Acenaphthene	14.74	154	141342	9.093	ng	93
53) 3-Nitroaniline	14.60	138	13709	2.993	ng	# 18
54) 2,4-Dinitrophenol	14.80	184	271	8.439	ng	# 1
56) 4-Nitrophenol	14.88	139	32200	9.211	ng	# 38
58) Fluorene	15.72	166	205997	11.110	ng	# 89
65) 4,6-Dinitro-2-methylphenol	15.78	198	2718	8.728	ng	# 1
66) n-Nitrosodiphenylamine	15.95	169	145012	9.935	ng	# 45
71) Phenanthrene	17.47	178	1186071	45.783	ng	97
72) Anthracene	17.56	178	333121	13.040	ng	96
75) Fluoranthene	19.48	202	845401	27.407	ng	98
78) Pyrene	19.84	202	807159	23.257	ng	96
81) Benzo(a)anthracene	21.67	228	327834	9.625	ng	# 87
83) Chrysene	21.74	228	347721	10.687	ng	# 88
88) Benzo(b)fluoranthene	23.90	252	212674	6.318	ng	# 74
89) Benzo(k)fluoranthene	23.90	252	212674	6.677	ng	# 75
90) Benzo(a)pyrene	24.76	252	164527	5.224	ng	# 81

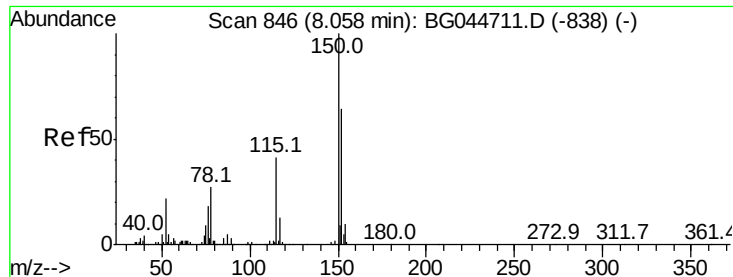
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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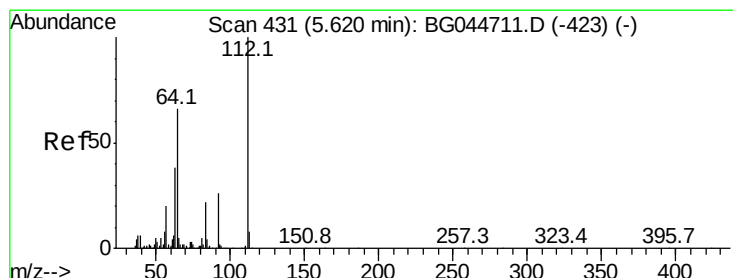
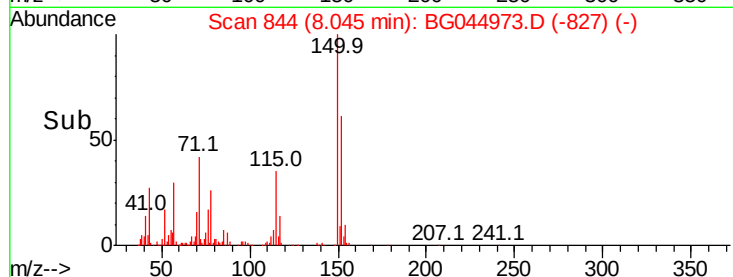
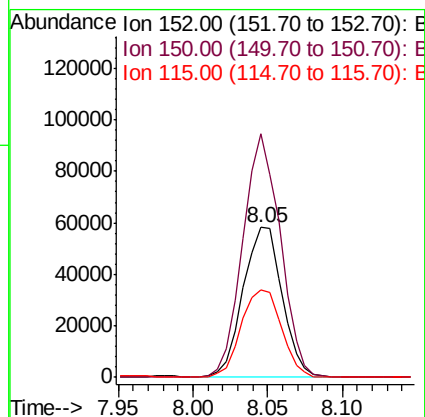
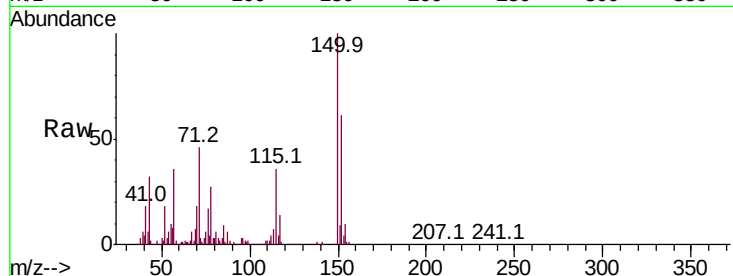


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.05 min Scan# 844
Delta R.T. 0.00 min
Lab File: BG044973.D
Acq: 8 Apr 2020 12:39

Instrument :
BNA_G
ClientSampleId :
SB-3K-(0-2)DL

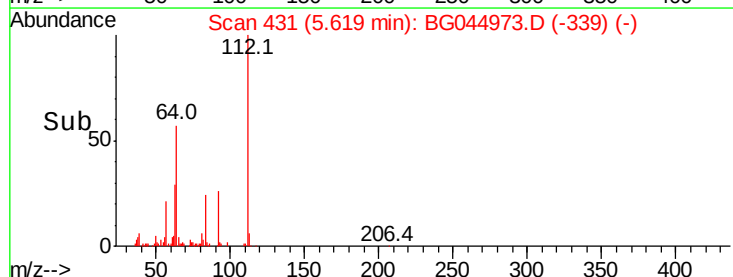
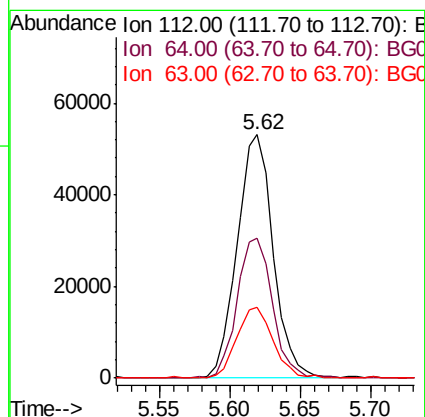
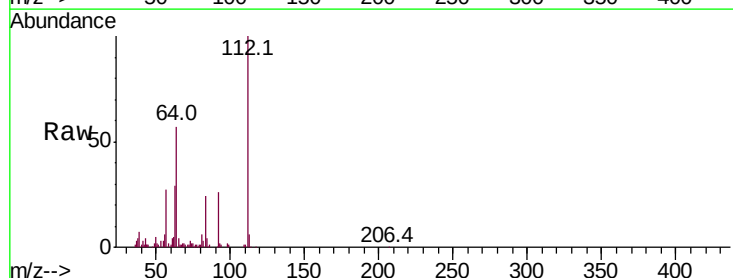
Tot Ion:152 Resp: 105589
Ion Ratio Lower Upper
152 100
150 162.7 128.8 193.2
115 58.3 52.6 79.0

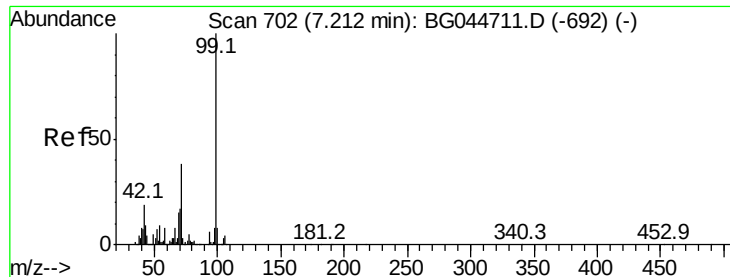


#5

2-Fluorophenol
Concen: 13.972 ng
RT: 5.62 min Scan# 431
Delta R.T. 0.01 min
Lab File: BG044973.D
Acq: 8 Apr 2020 12:39

Tgt Ion:112 Resp: 94768
Ion Ratio Lower Upper
112 100
64 57.4 53.4 80.2
63 29.2 29.4 44.2#





#7

Phenol-d6

Concen: 13.935 ng

RT: 7.20 min Scan# 700

Delta R.T. -0.01 min

Lab File: BG044973.D

Acq: 8 Apr 2020 12:39

Instrument :

BNA_G

ClientSampleId :

SB-3K-(0-2)DL

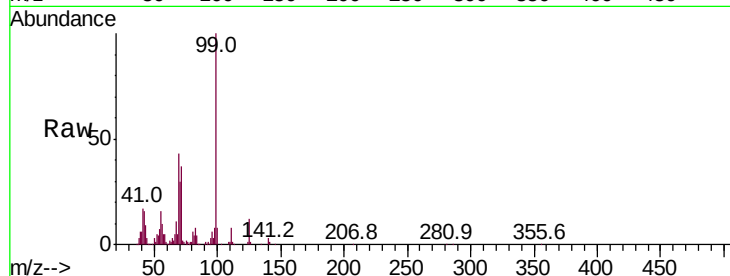
Tot Ion: 99 Resp: 137335

Ion Ratio Lower Upper

99 100

42 16.3 12.6 19.0

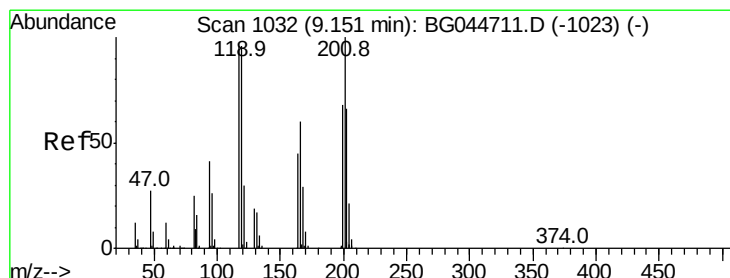
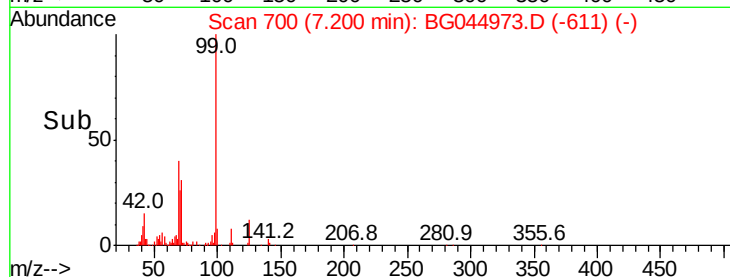
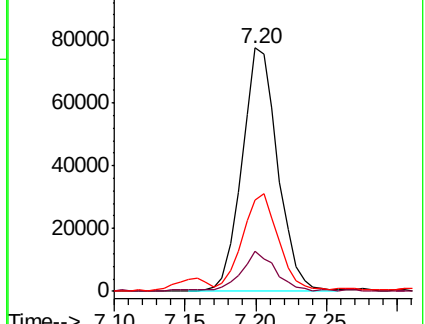
71 37.3 29.0 43.4



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



#18

Hexachloroethane

Concen: 7.153 ng

RT: 9.16 min Scan# 1033

Delta R.T. 0.02 min

Lab File: BG044973.D

Acq: 8 Apr 2020 12:39

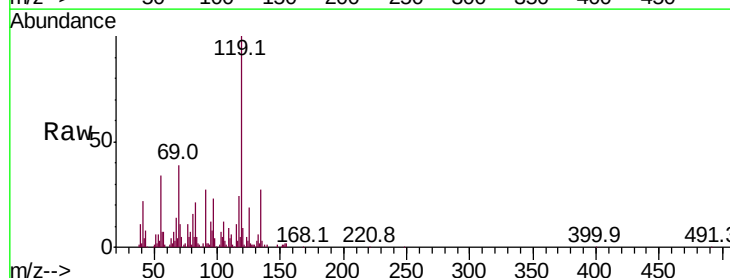
Tgt Ion: 117 Resp: 23221

Ion Ratio Lower Upper

117 100

119 411.7 75.2 112.8#

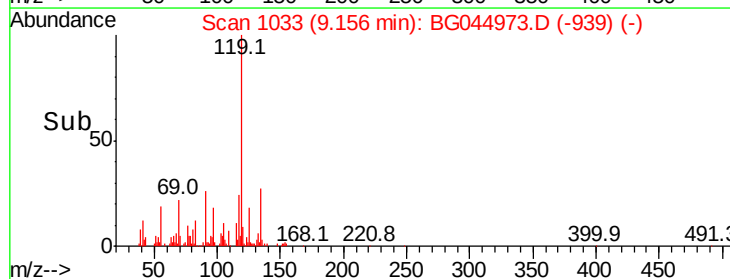
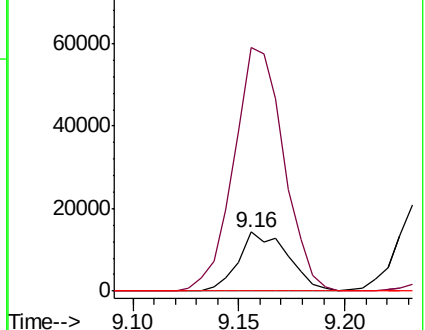
201 0.0 81.1 121.7#

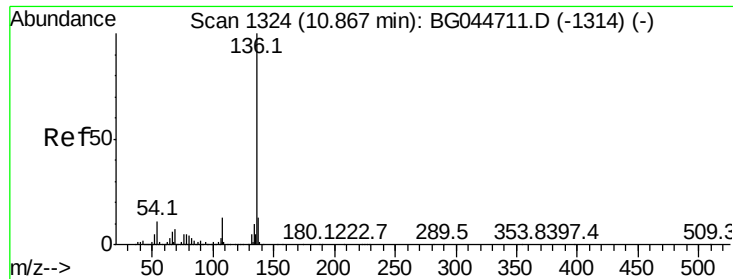


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E

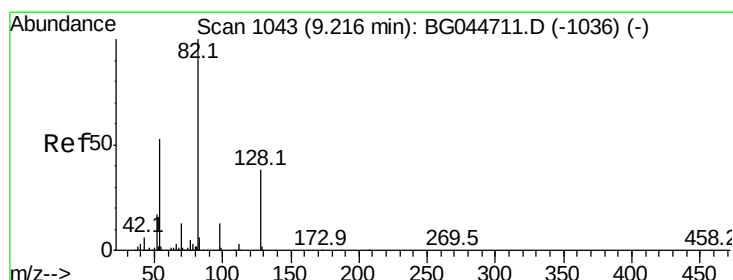
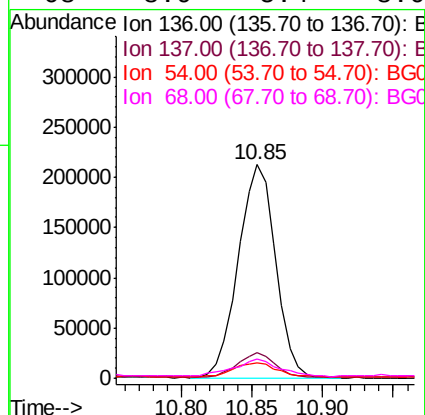
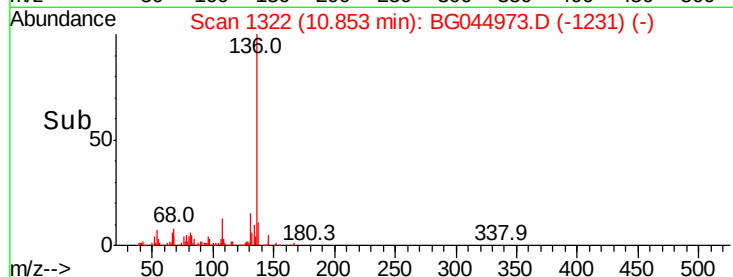
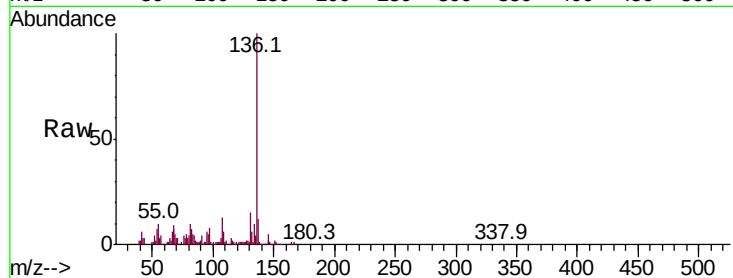




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.85 min Scan# 1322
Delta R.T. 0.00 min
Lab File: BG044973.D
Acq: 8 Apr 2020 12:39

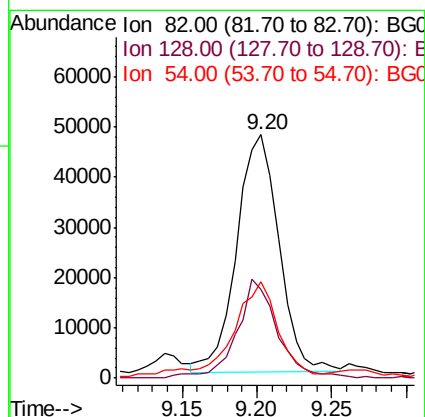
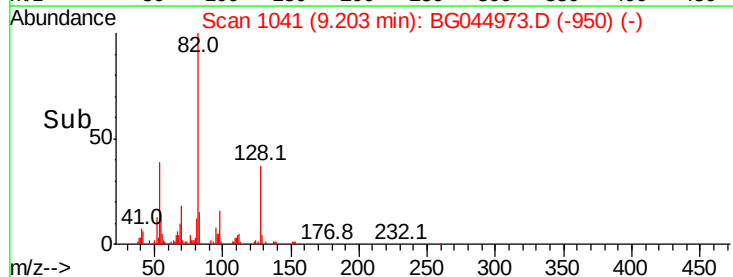
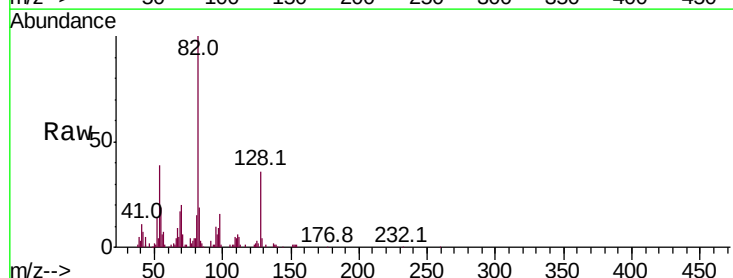
Instrument :
BNA_G
ClientSampleId :
SB-3K-(0-2)DL

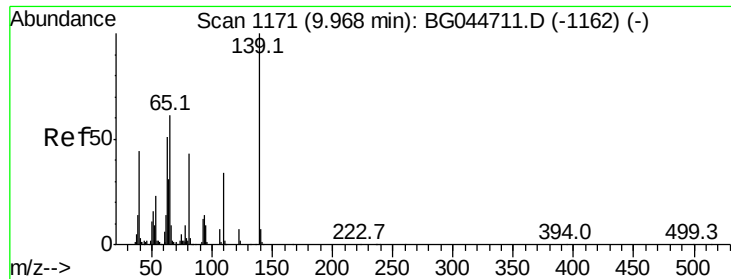
Tot Ion:136	Resp:	393729
Ion Ratio	Lower	Upper
136 100		
137 12.0	9.8	14.6
54 7.3	7.9	11.9#
68 8.9	5.4	8.0#



#23
Nitrobenzene-d5
Concen: 10.385 ng
RT: 9.20 min Scan# 1041
Delta R.T. 0.00 min
Lab File: BG044973.D
Acq: 8 Apr 2020 12:39

Tgt Ion: 82	Resp: 93182
Ion Ratio	Lower Upper
82 100	
128 36.4	30.6 46.0
54 39.4	37.1 55.7

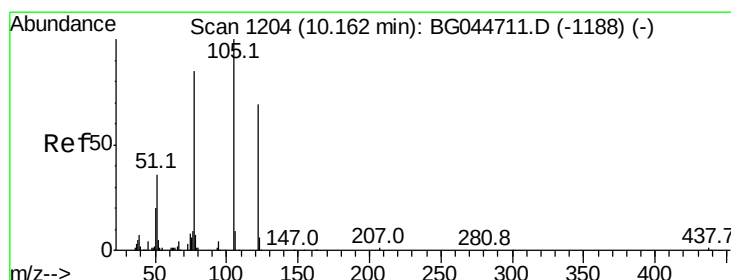
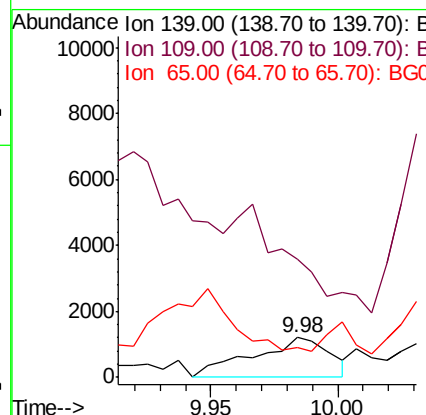
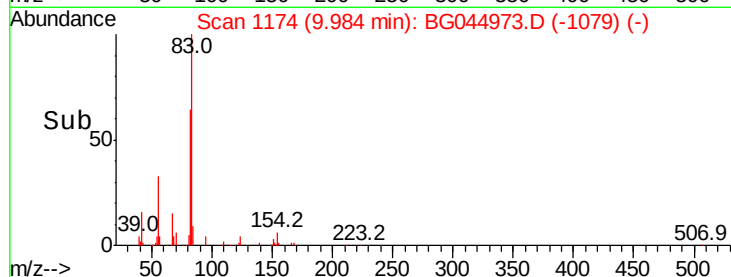
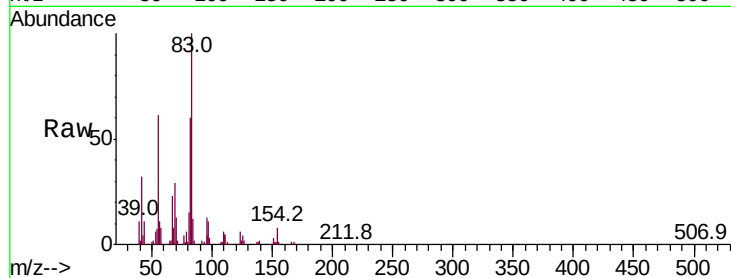




#26
2-Nitrophenol
Concen: 6.210 ng
RT: 9.98 min Scan# 1174
Delta R.T. 0.03 min
Lab File: BG044973.D
Acq: 8 Apr 2020 12:39

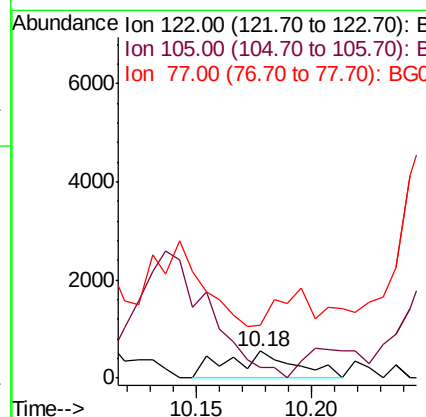
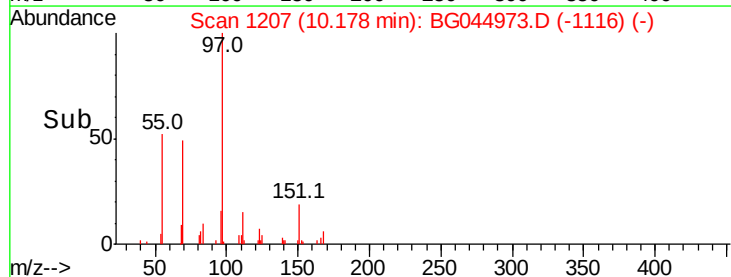
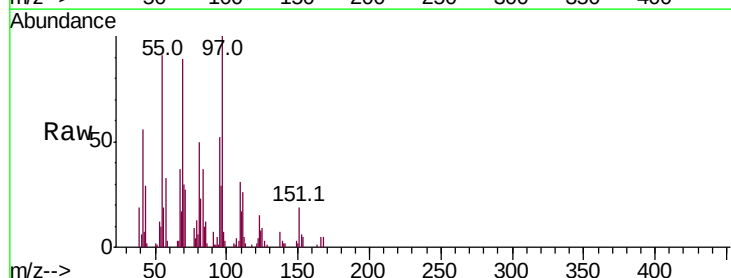
Instrument :
BNA_G
ClientSampleId :
SB-3K-(0-2)DL

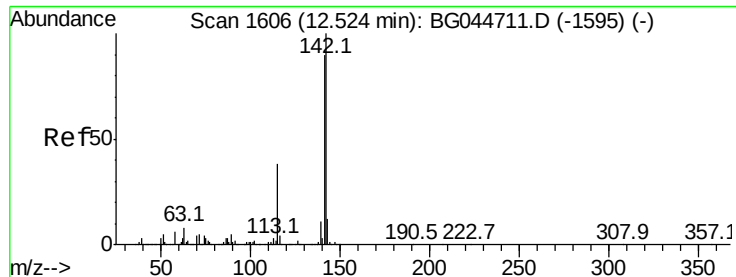
Tot Ion:139 Resp: 2538
Ion Ratio Lower Upper
139 100
109 296.0 30.2 45.4#
65 76.2 46.3 69.5#



#32
Benzoic acid
Concen: 9.872 ng
RT: 10.18 min Scan# 1207
Delta R.T. 0.00 min
Lab File: BG044973.D
Acq: 8 Apr 2020 12:39

Tgt Ion:122 Resp: 1125
Ion Ratio Lower Upper
122 100
105 41.6 109.1 149.1#
77 197.6 85.3 125.3#

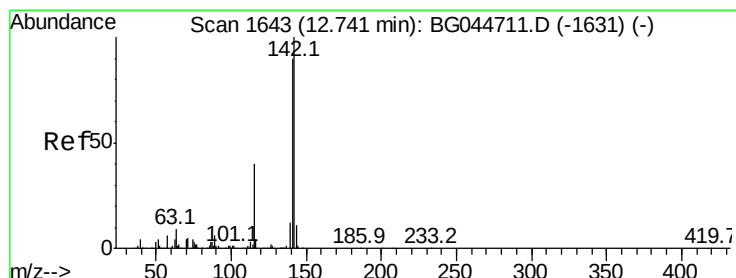
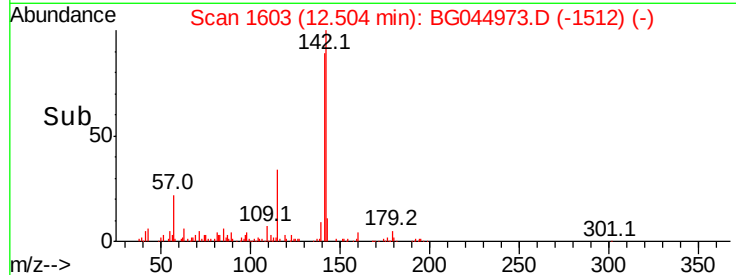
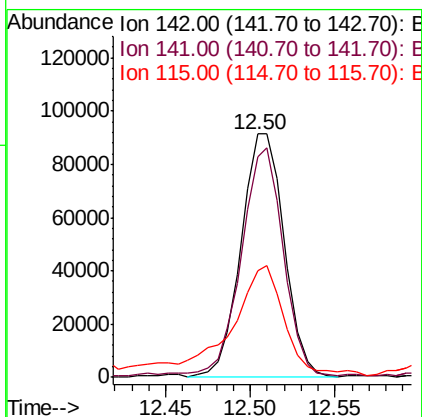
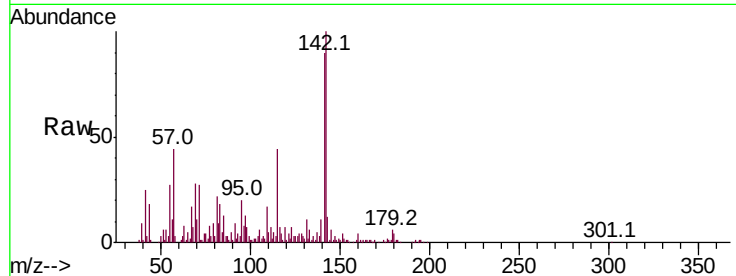




#37
 2-Methylnaphthalene
 Concen: 9.855 ng
 RT: 12.50 min Scan# 1603
 Delta R.T. 0.00 min
 Lab File: BG044973.D
 Acq: 8 Apr 2020 12:39

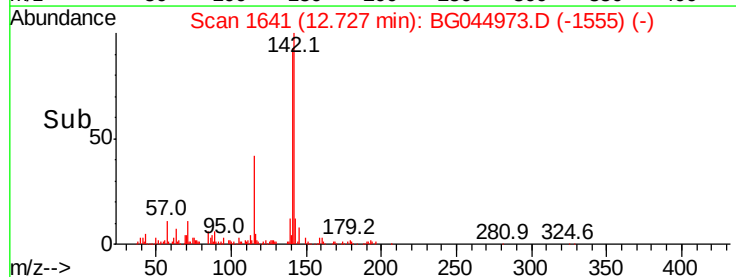
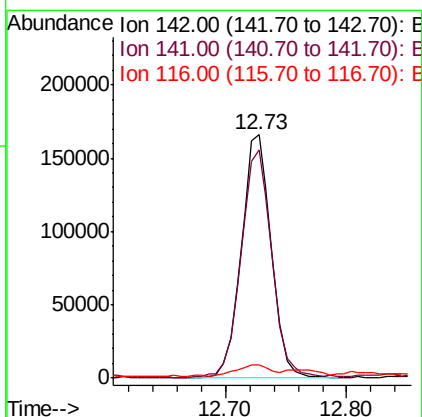
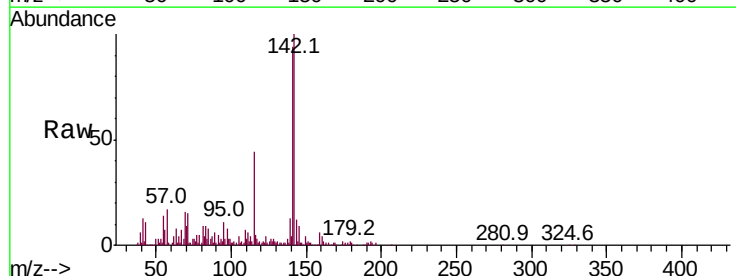
Instrument :
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 ClientSampleId :
 SB-3K-(0-2)DL

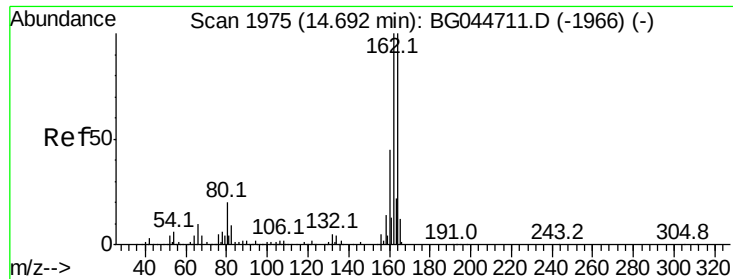
Tot Ion	Ratio	Lower	Upper
142	100		
141	90.5	75.1	112.7
115	43.8	30.6	46.0



#38
 1-Methylnaphthalene
 Concen: 18.651 ng
 RT: 12.73 min Scan# 1641
 Delta R.T. 0.00 min
 Lab File: BG044973.D
 Acq: 8 Apr 2020 12:39

Tgt Ion	Ratio	Lower	Upper
142	100		
141	93.8	74.7	112.1
116	5.4	3.3	4.9#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.68 min Scan# 1973

Delta R.T. 0.00 min

Lab File: BG044973.D

Acq: 8 Apr 2020 12:39

Instrument :

BNA_G

ClientSampleId :

SB-3K-(0-2)DL

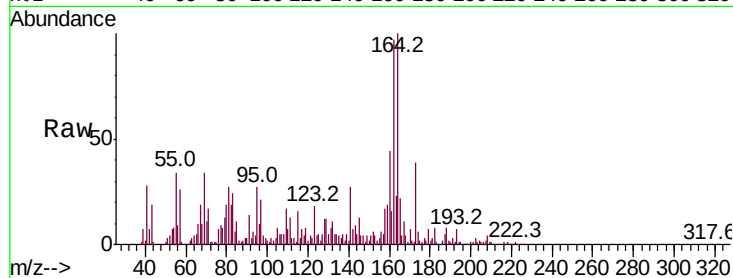
Tot Ion:164 Resp: 248159

Ion Ratio Lower Upper

164 100

162 97.2 76.7 115.1

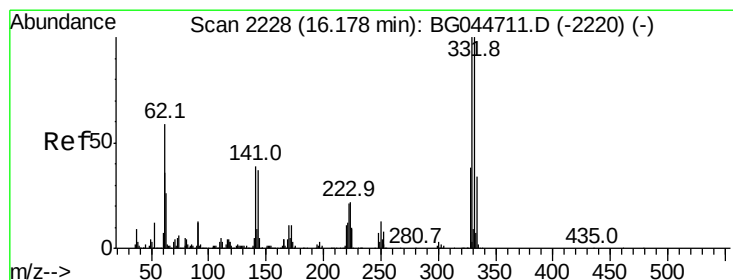
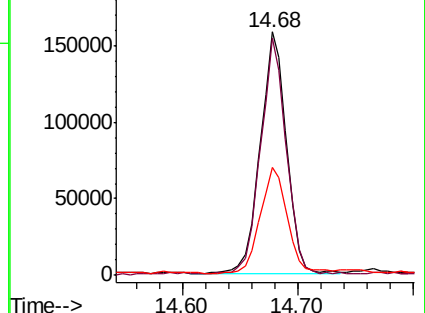
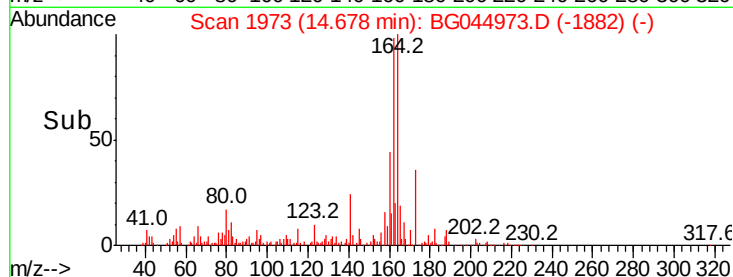
160 44.1 35.0 52.4



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: 13.588 ng

RT: 16.16 min Scan# 2226

Delta R.T. 0.00 min

Lab File: BG044973.D

Acq: 8 Apr 2020 12:39

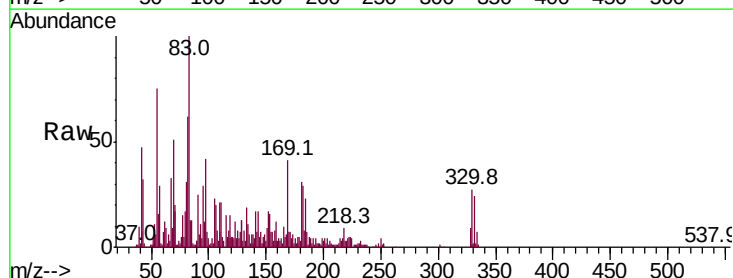
Tgt Ion:330 Resp: 44150

Ion Ratio Lower Upper

330 100

332 97.3 77.8 116.6

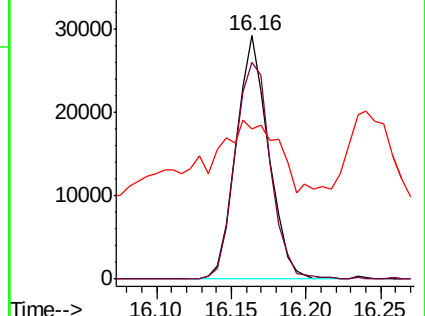
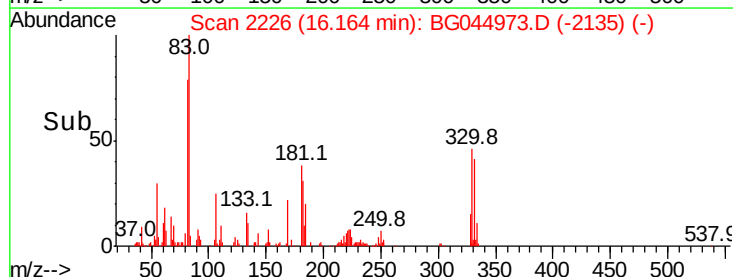
141 118.8 29.5 44.3#

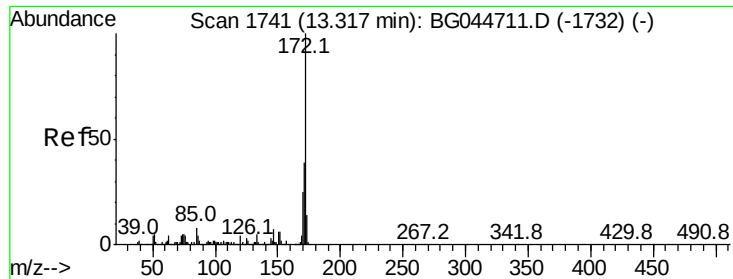


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

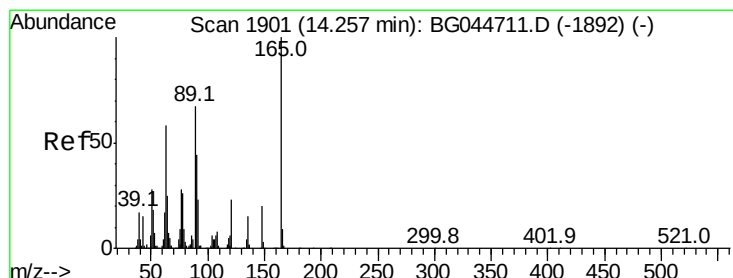
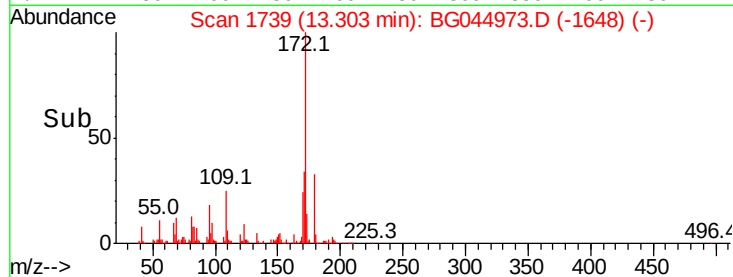
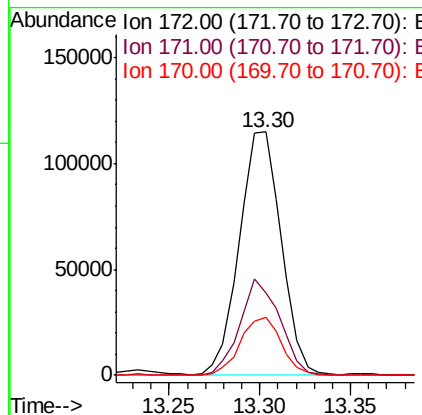
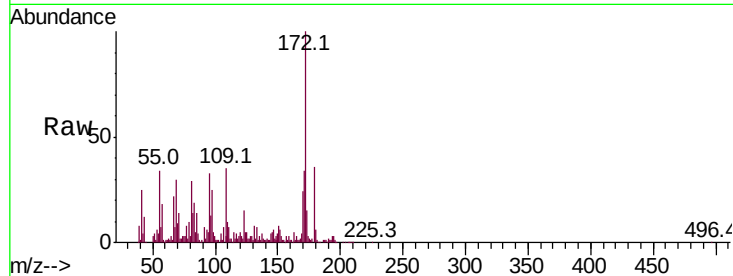




#45
2-Fluorobiphenyl
Concen: 10.657 ng
RT: 13.30 min Scan# 1739
Delta R.T. 0.00 min
Lab File: BG044973.D
Acq: 8 Apr 2020 12:39

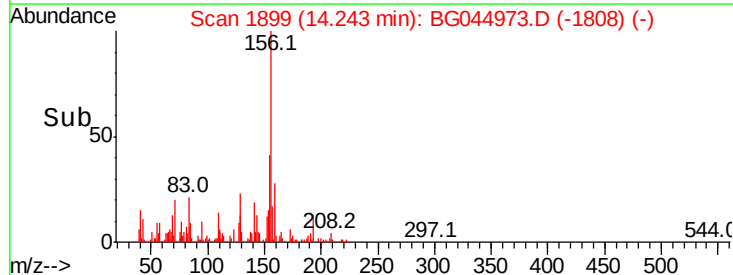
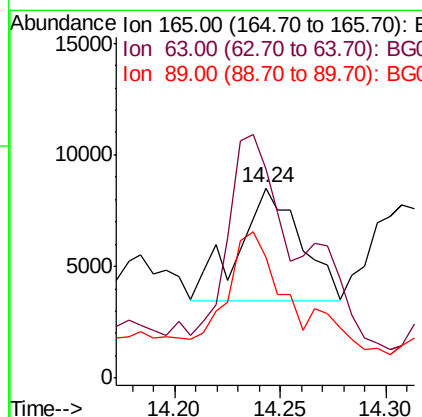
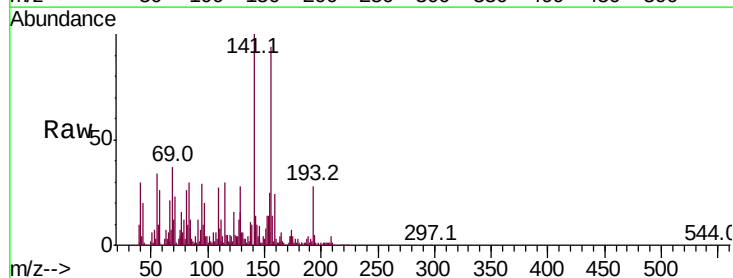
Instrument :
BNA_G
ClientSampleId :
SB-3K-(0-2)DL

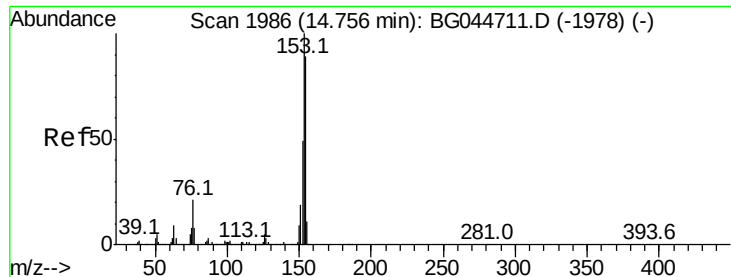
Tot Ion	Ratio	Lower	Upper
172	100		
171	33.9	28.7	43.1
170	24.1	19.0	28.6



#51
2,6-Dinitrotoluene
Concen: 2.631 ng
RT: 14.24 min Scan# 1899
Delta R.T. 0.00 min
Lab File: BG044973.D
Acq: 8 Apr 2020 12:39

Tgt Ion	Ratio	Lower	Upper
165	100		
63	110.1	45.8	68.8#
89	63.8	51.8	77.6





#52

Acenaphthene

Concen: 9.093 ng

RT: 14.74 min Scan# 1984

Delta R.T. 0.00 min

Lab File: BG044973.D

Acq: 8 Apr 2020 12:39

Instrument :

BNA_G

ClientSampleId :

SB-3K-(0-2)DL

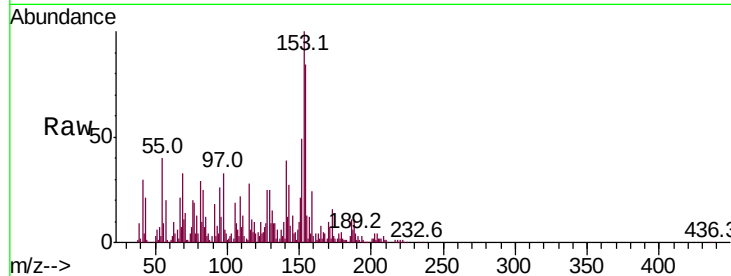
Tot Ion:154 Resp: 141342

Ion Ratio Lower Upper

154 100

153 118.7 89.0 133.6

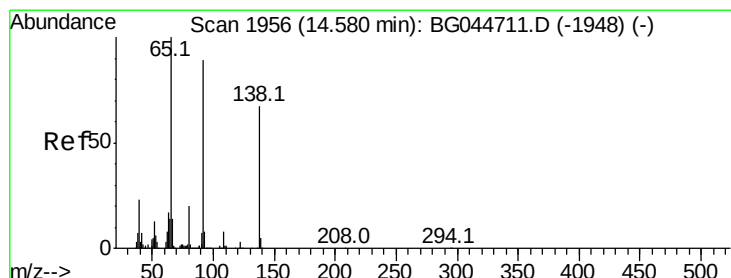
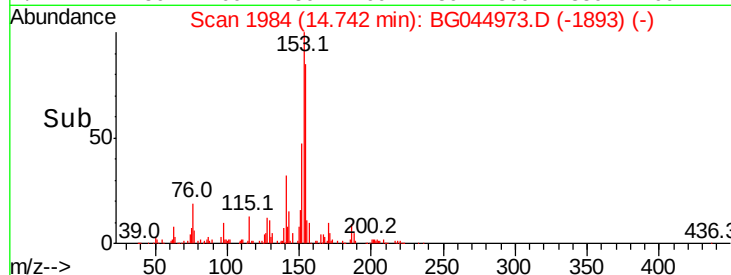
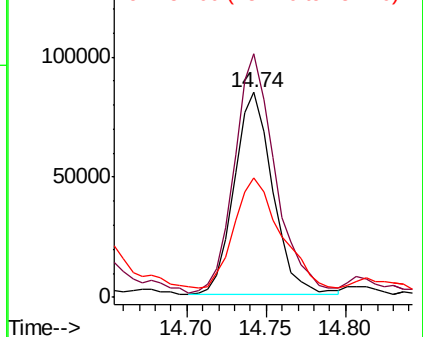
152 58.1 43.0 64.6



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#53

3-Nitroaniline

Concen: 2.993 ng

RT: 14.60 min Scan# 1959

Delta R.T. 0.03 min

Lab File: BG044973.D

Acq: 8 Apr 2020 12:39

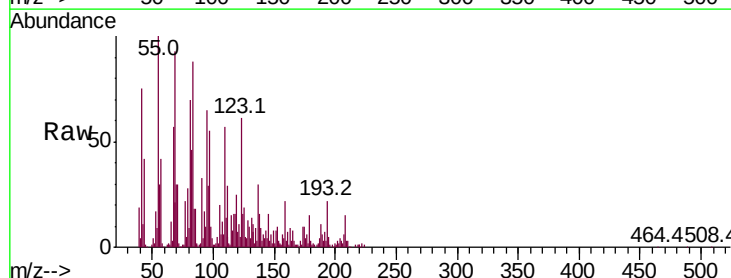
Tgt Ion:138 Resp: 13709

Ion Ratio Lower Upper

138 100

108 37.7 9.0 13.4#

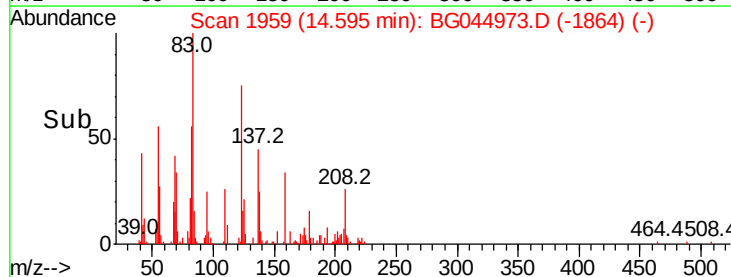
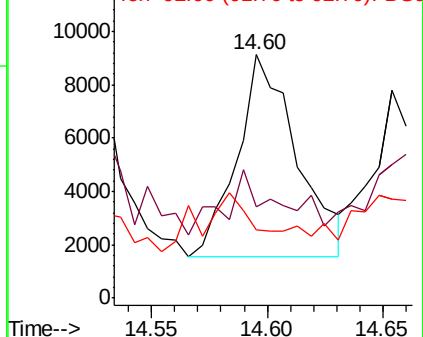
92 28.0 96.8 145.2#

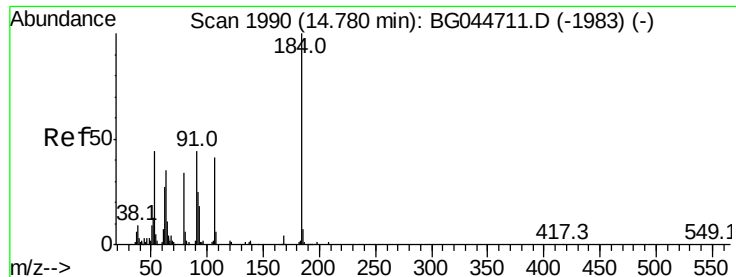


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BGC

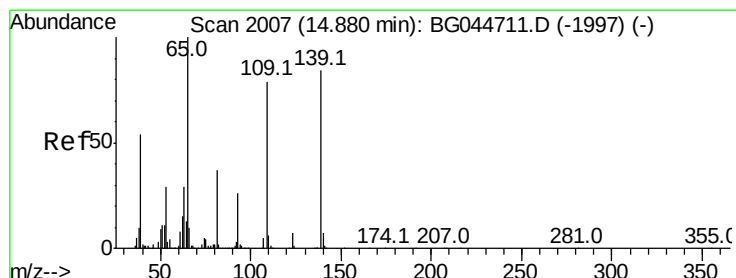
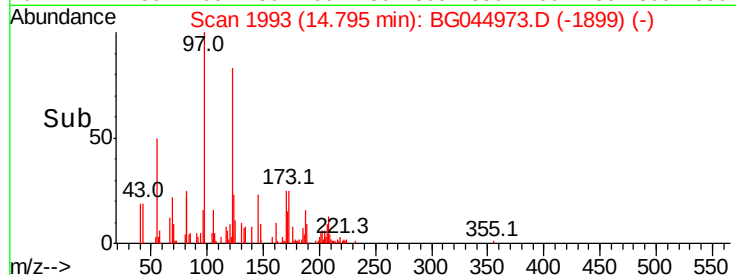
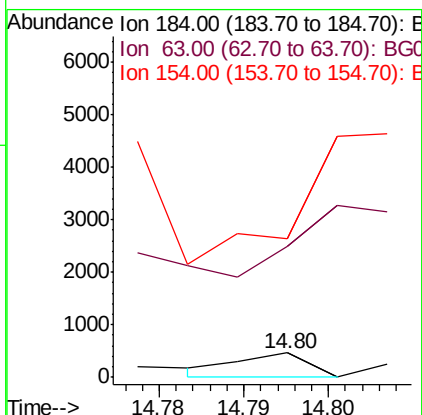
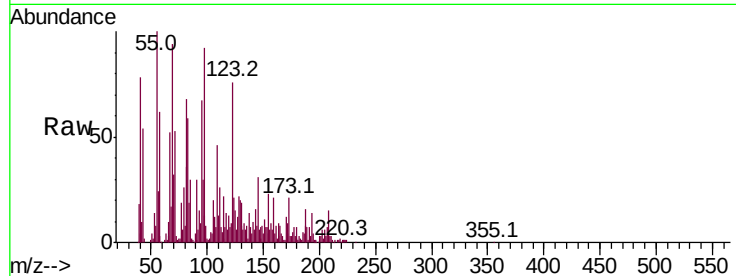




#54
 2,4-Dinitrophenol
 Concen: 8.439 ng
 RT: 14.80 min Scan# 1993
 Delta R.T. 0.02 min
 Lab File: BG044973.D
 Acq: 8 Apr 2020 12:39

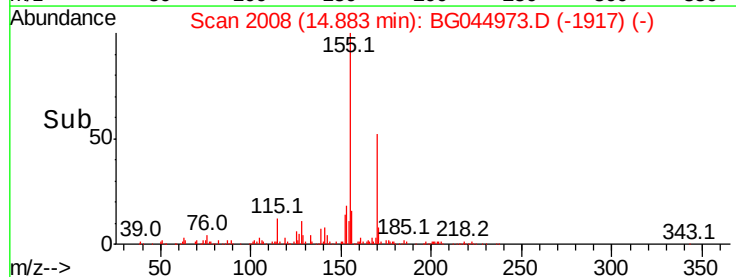
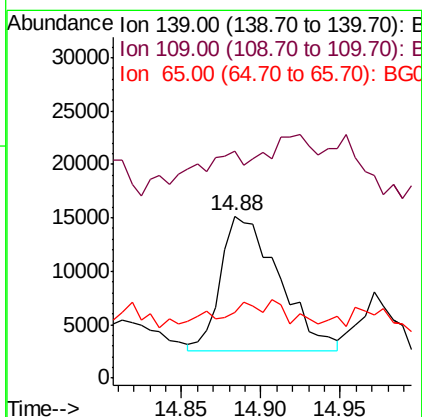
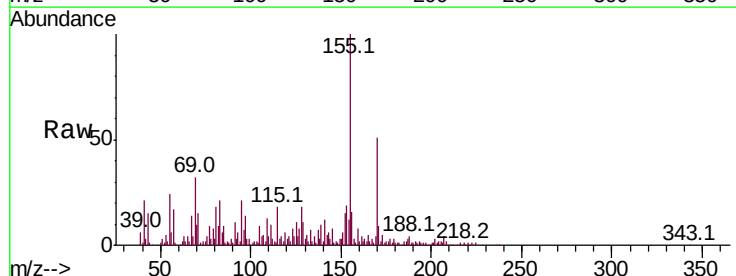
Instrument :
 BNA_G
 ClientSampleId :
 SB-3K-(0-2)DL

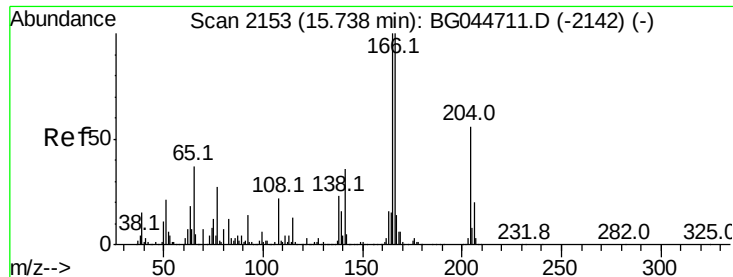
Tot Ion:184 Resp: 271
 Ion Ratio Lower Upper
 184 100
 63 537.7 45.5 68.3#
 154 567.5 49.1 73.7#



#56
 4-Nitrophenol
 Concen: 9.211 ng
 RT: 14.88 min Scan# 2008
 Delta R.T. 0.00 min
 Lab File: BG044973.D
 Acq: 8 Apr 2020 12:39

Tgt Ion:139 Resp: 32200
 Ion Ratio Lower Upper
 139 100
 109 140.0 68.8 108.8#
 65 40.2 92.5 132.5#





#58

Fluorene

Concen: 11.110 ng

RT: 15.72 min Scan# 2151

Delta R.T. -0.00 min

Lab File: BG044973.D

Acq: 8 Apr 2020 12:39

Instrument :

BNA_G

ClientSampleId :

SB-3K-(0-2)DL

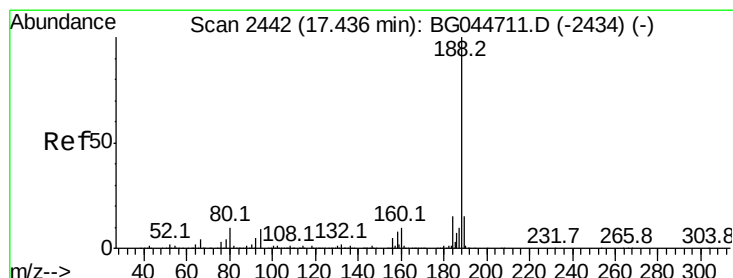
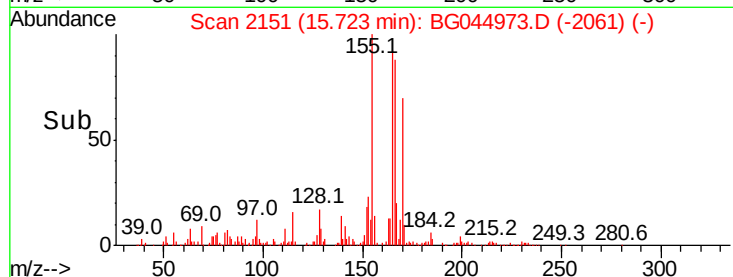
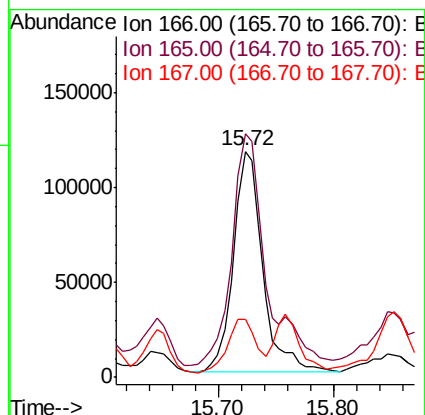
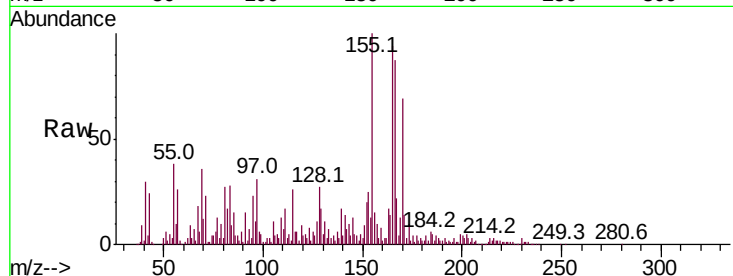
Tot Ion:166 Resp: 205997

Ion Ratio Lower Upper

166 100

165 107.7 79.7 119.5

167 25.8 10.6 16.0#



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.43 min Scan# 2441

Delta R.T. 0.01 min

Lab File: BG044973.D

Acq: 8 Apr 2020 12:39

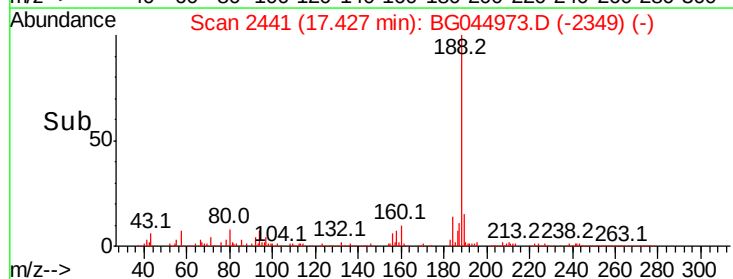
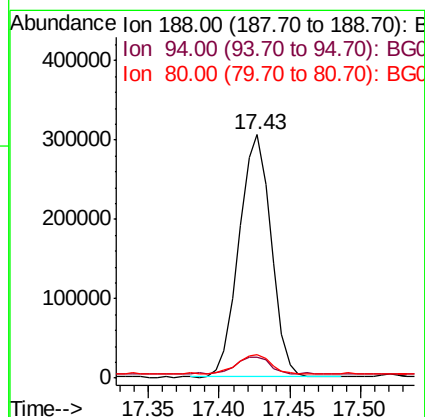
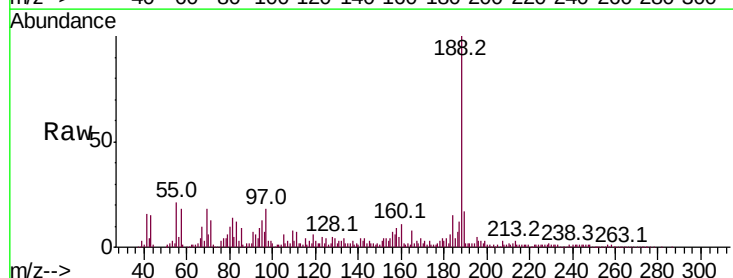
Tgt Ion:188 Resp: 484790

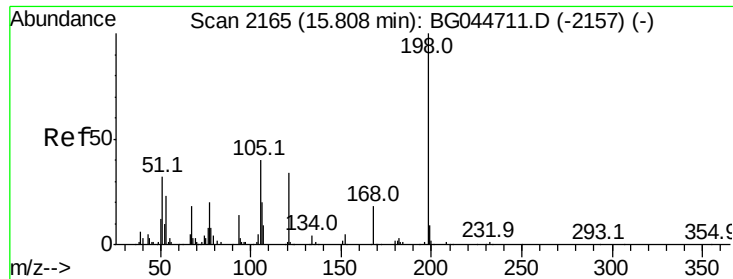
Ion Ratio Lower Upper

188 100

94 8.7 7.3 10.9

80 9.7 8.0 12.0

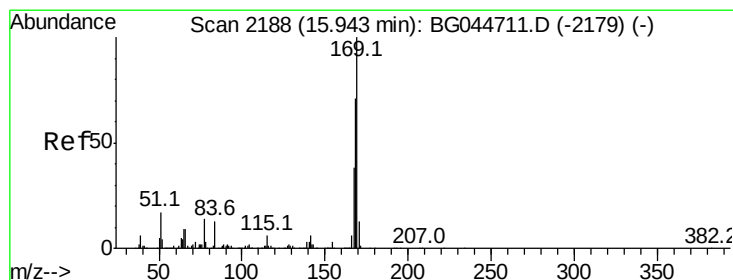
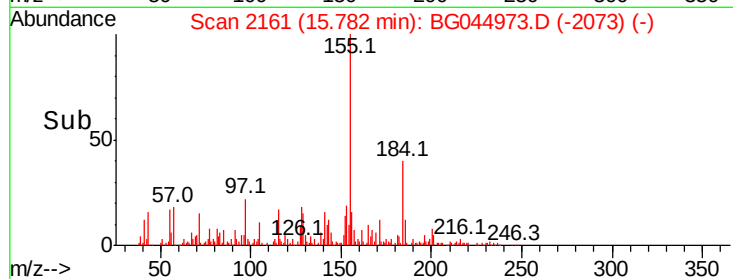
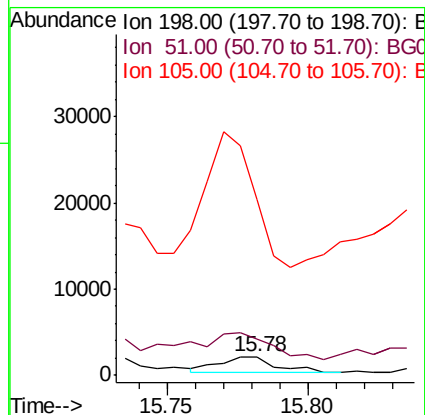
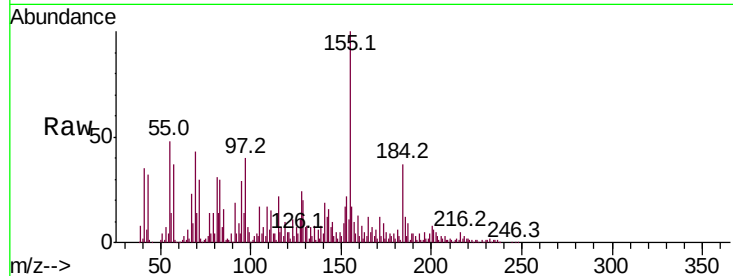




#65
4,6-Dinitro-2-methylphenol
Concen: 8.728 ng
RT: 15.78 min Scan# 2161
Delta R.T. -0.02 min
Lab File: BG044973.D
Acq: 8 Apr 2020 12:39

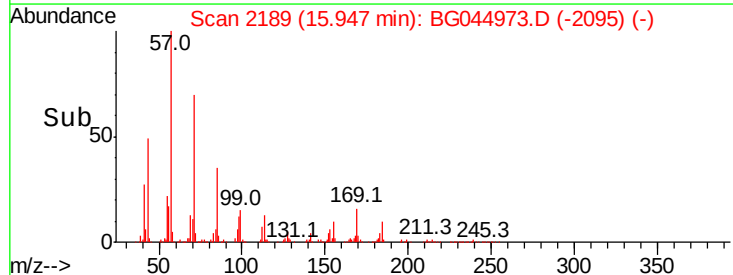
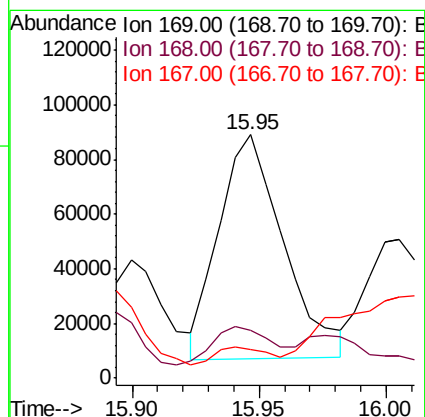
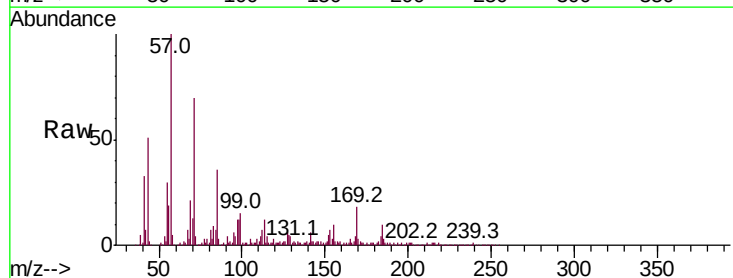
Instrument :
BNA_G
ClientSampleId :
SB-3K-(0-2)DL

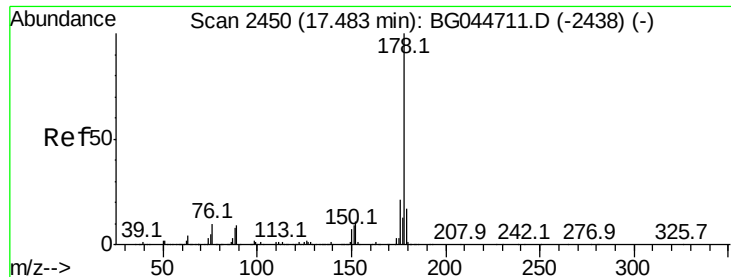
Tot Ion:198 Resp: 2718
Ion Ratio Lower Upper
198 100
51 198.6 21.1 61.1#
105 954.2 24.5 64.5#



#66
n-Nitrosodiphenylamine
Concen: 9.935 ng
RT: 15.95 min Scan# 2189
Delta R.T. 0.02 min
Lab File: BG044973.D
Acq: 8 Apr 2020 12:39

Tgt Ion:169 Resp: 145012
Ion Ratio Lower Upper
169 100
168 19.8 55.4 83.2#
167 11.7 30.1 45.1#

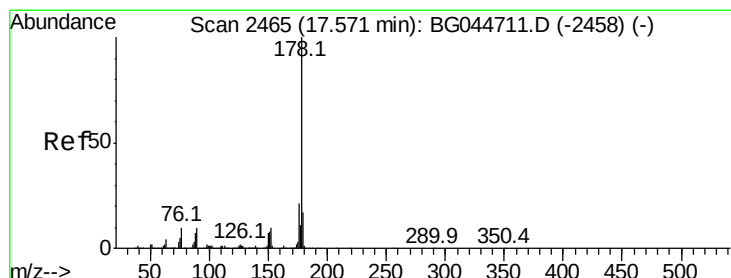
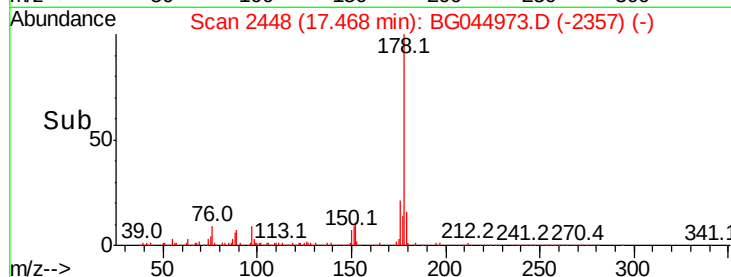
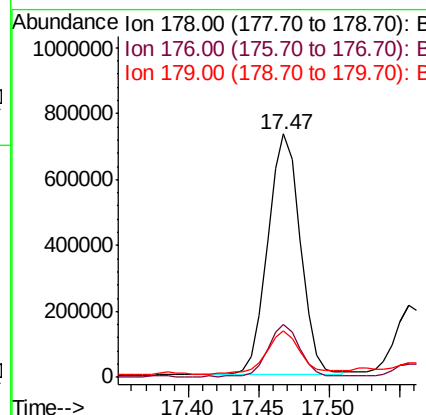
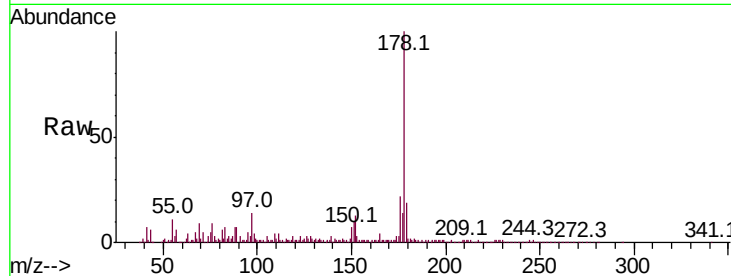




#71
Phenanthrene
Concen: 45.783 ng
RT: 17.47 min Scan# 2448
Delta R.T. 0.00 min
Lab File: BG044973.D
Acq: 8 Apr 2020 12:39

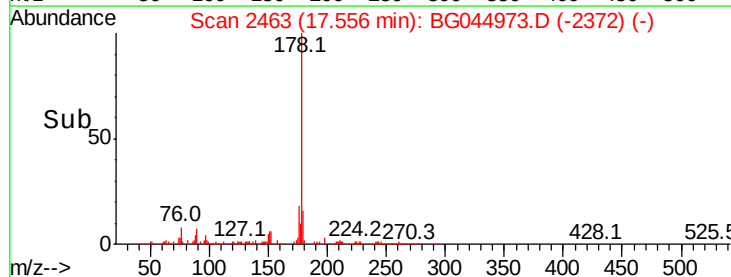
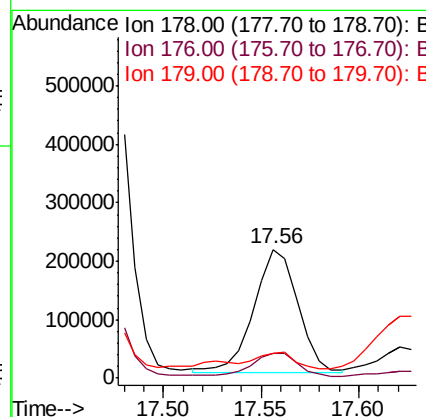
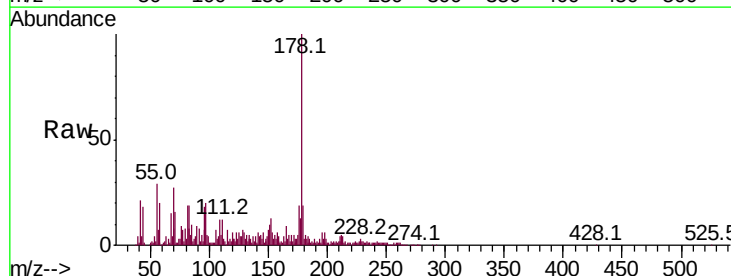
Instrument :
BNA_G
ClientSampleId :
SB-3K-(0-2)DL

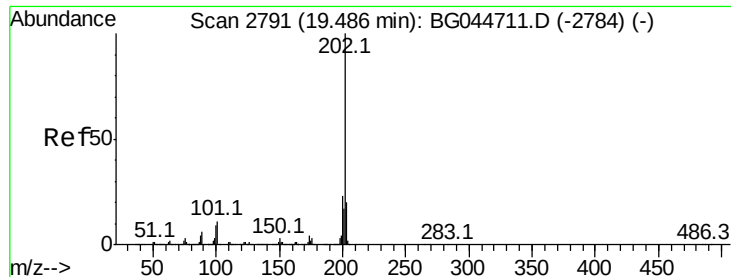
Tot Ion:178 Resp: 1186071
Ion Ratio Lower Upper
178 100
176 21.8 16.6 24.8
179 18.9 13.5 20.3



#72
Anthracene
Concen: 13.040 ng
RT: 17.56 min Scan# 2463
Delta R.T. 0.00 min
Lab File: BG044973.D
Acq: 8 Apr 2020 12:39

Tgt Ion:178 Resp: 333121
Ion Ratio Lower Upper
178 100
176 18.8 15.9 23.9
179 19.2 13.2 19.8





#75

Fluoranthene

Concen: 27.407 ng

RT: 19.48 min Scan# 2790

Delta R.T. 0.01 min

Lab File: BG044973.D

Acq: 8 Apr 2020 12:39

Instrument :

BNA_G

ClientSampleId :

SB-3K-(0-2)DL

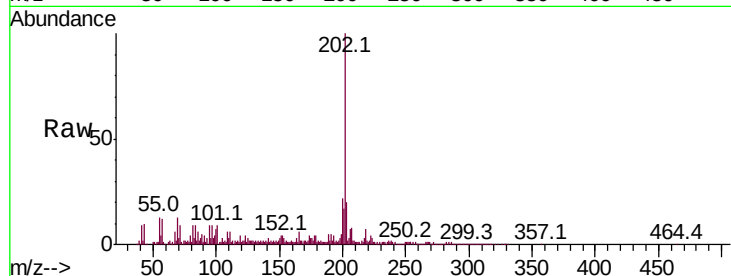
Tot Ion:202 Resp: 845401

Ion Ratio Lower Upper

202 100

101 9.0 0.0 29.8

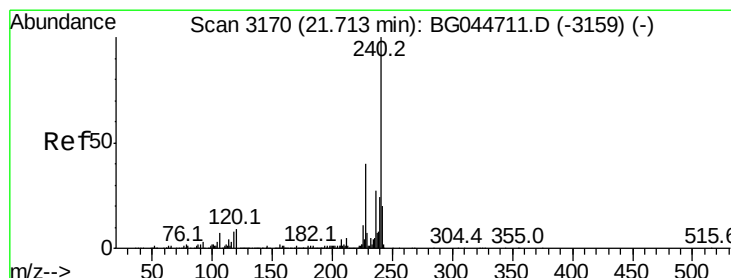
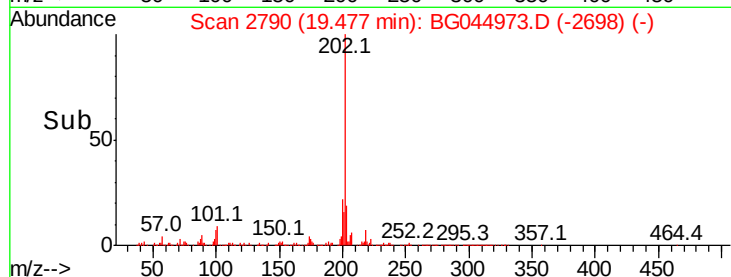
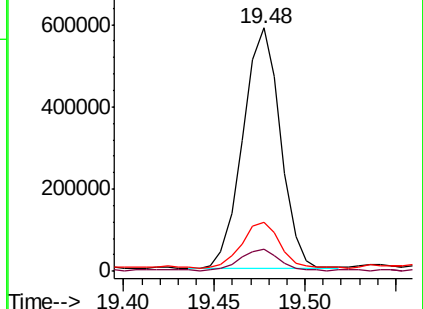
203 20.2 0.0 39.4



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.70 min Scan# 3168

Delta R.T. 0.01 min

Lab File: BG044973.D

Acq: 8 Apr 2020 12:39

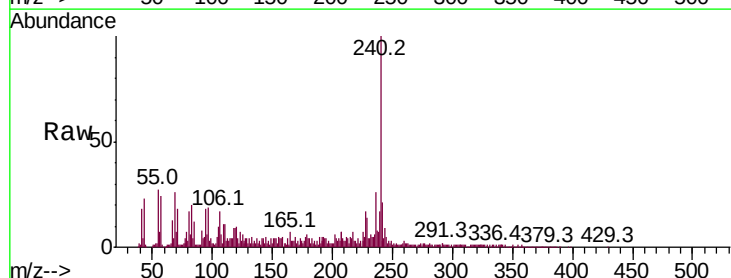
Tgt Ion:240 Resp: 473041

Ion Ratio Lower Upper

240 100

120 10.3 6.7 10.1#

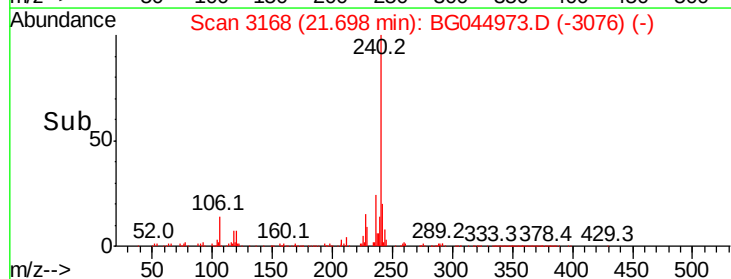
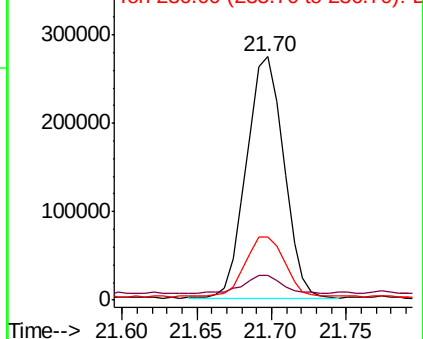
236 25.9 21.5 32.3

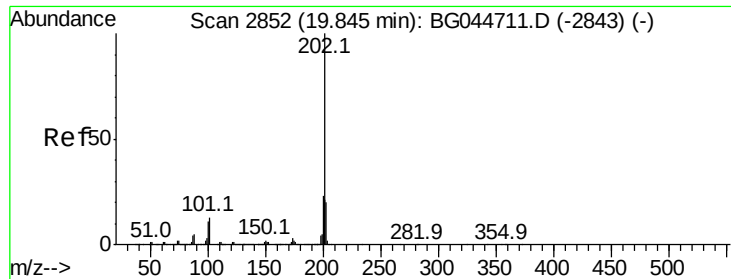


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 23.257 ng

RT: 19.84 min Scan# 2851

Delta R.T. 0.01 min

Lab File: BG044973.D

Acq: 8 Apr 2020 12:39

Instrument :

BNA_G

ClientSampleId :

SB-3K-(0-2)DL

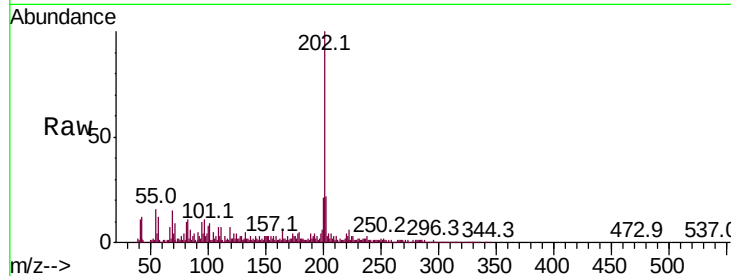
Tot Ion:202 Resp: 807159

Ion Ratio Lower Upper

202 100

200 21.4 18.3 27.5

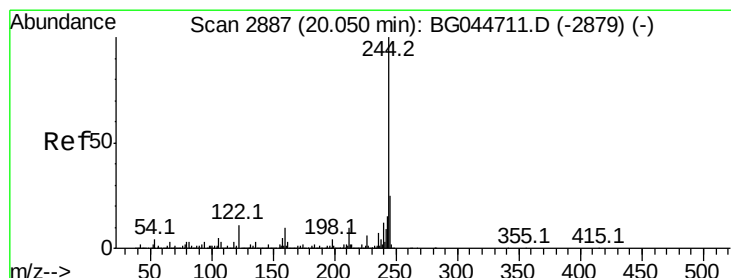
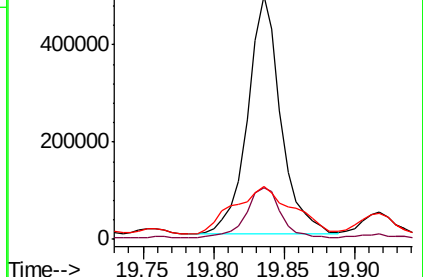
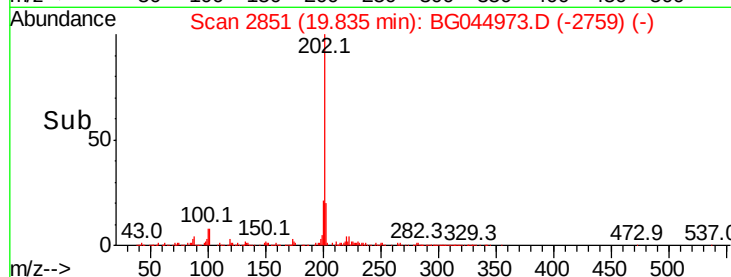
203 22.0 15.6 23.4



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: 10.251 ng

RT: 20.04 min Scan# 2885

Delta R.T. 0.00 min

Lab File: BG044973.D

Acq: 8 Apr 2020 12:39

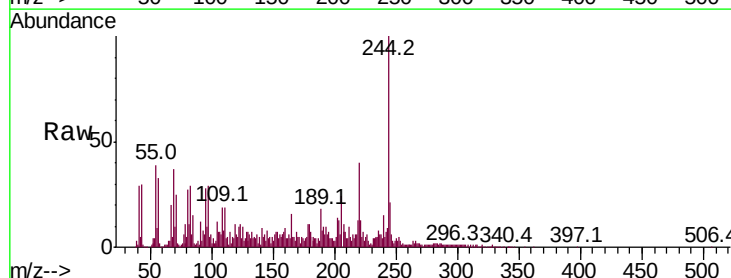
Tgt Ion:244 Resp: 259245

Ion Ratio Lower Upper

244 100

212 9.7 7.7 11.5

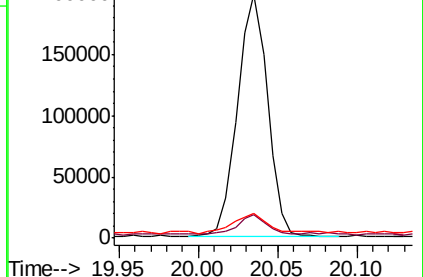
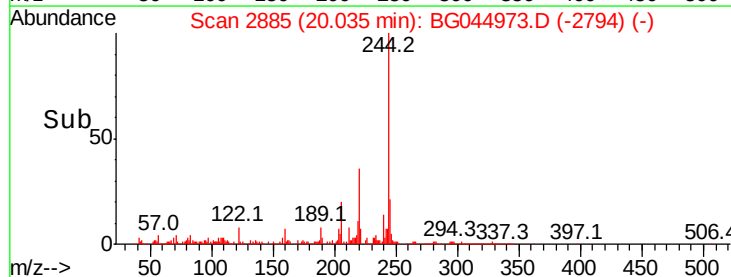
122 9.9 8.6 12.8

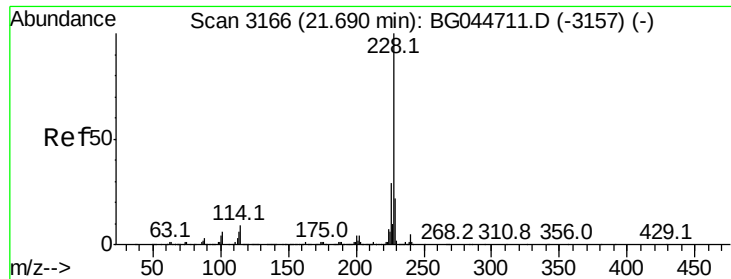


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 9.625 ng

RT: 21.67 min Scan# 3164

Delta R.T. 0.00 min

Lab File: BG044973.D

Acq: 8 Apr 2020 12:39

Instrument :

BNA_G

ClientSampleId :

SB-3K-(0-2)DL

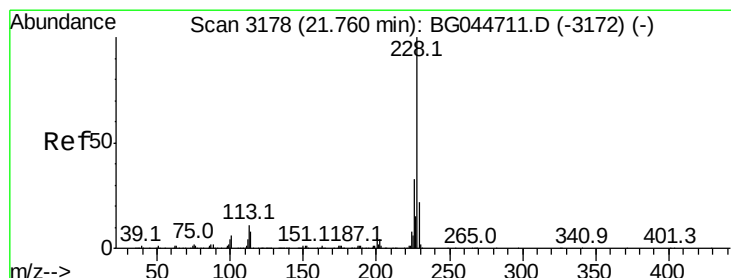
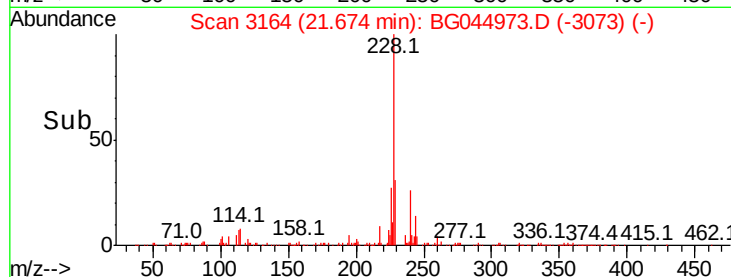
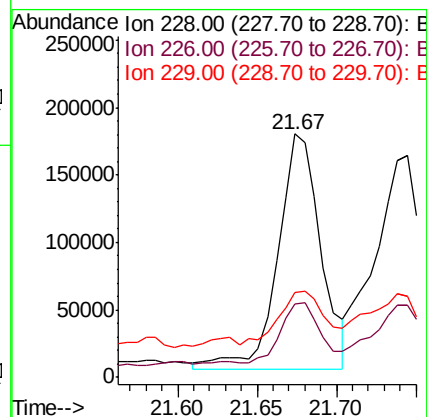
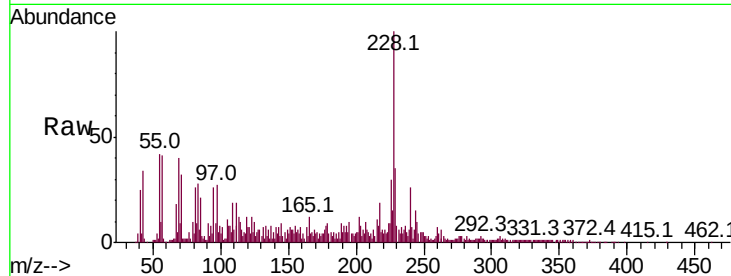
Tot Ion:228 Resp: 327834

Ion Ratio Lower Upper

228 100

226 30.3 23.6 35.4

229 34.7 17.1 25.7#



#83

Chrysene

Concen: 10.687 ng

RT: 21.74 min Scan# 3176

Delta R.T. 0.01 min

Lab File: BG044973.D

Acq: 8 Apr 2020 12:39

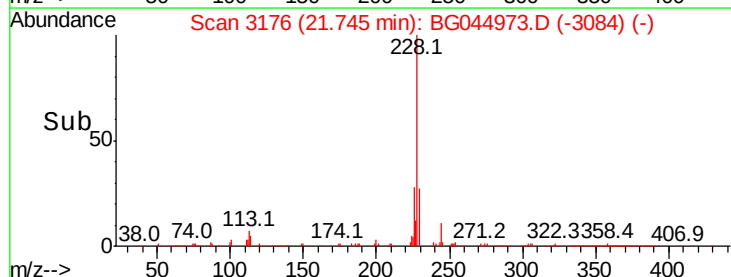
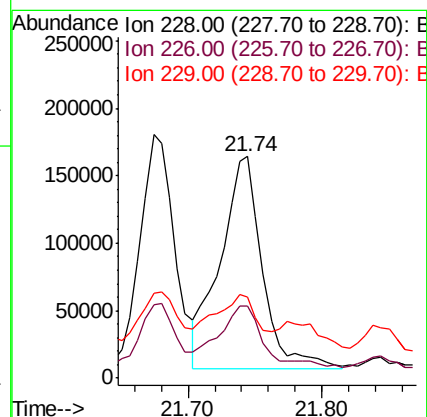
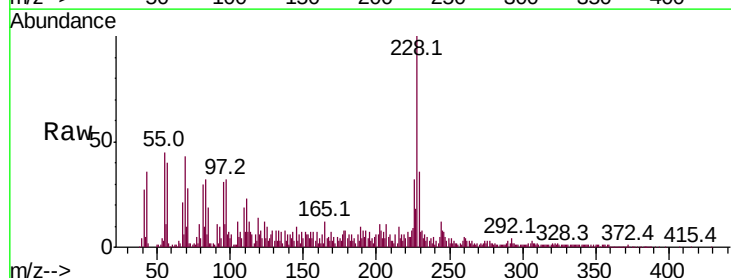
Tgt Ion:228 Resp: 347721

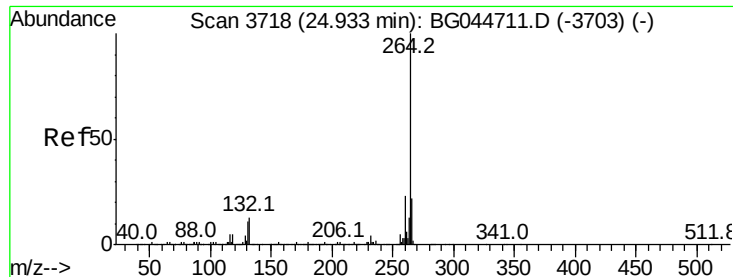
Ion Ratio Lower Upper

228 100

226 32.4 25.9 38.9

229 36.4 17.4 26.0#

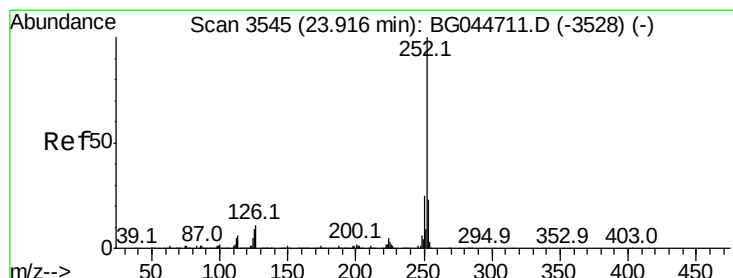
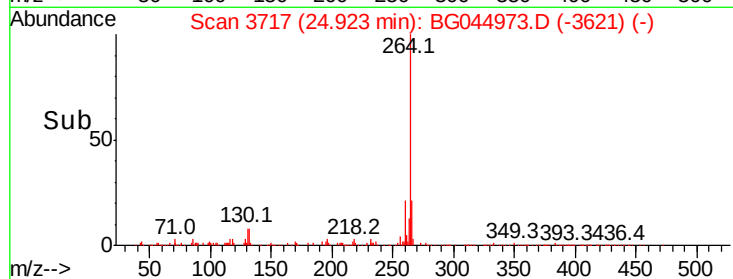
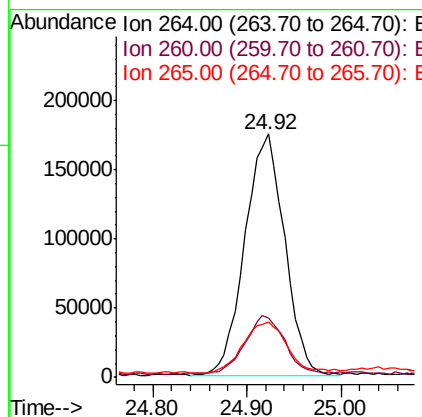
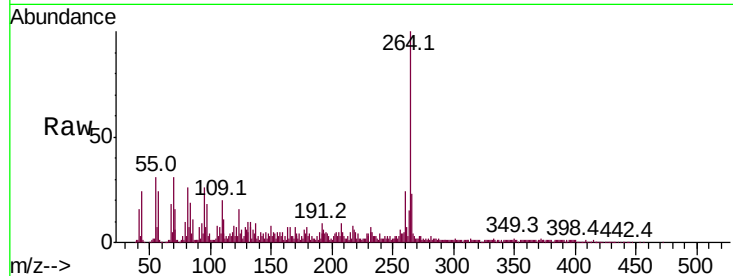




#87
Pervlene-d12
Concen: 20.000 ng
RT: 24.92 min Scan# 3717
Delta R.T. 0.03 min
Lab File: BG044973.D
Acq: 8 Apr 2020 12:39

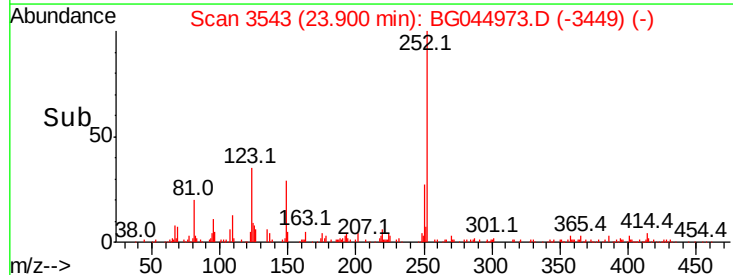
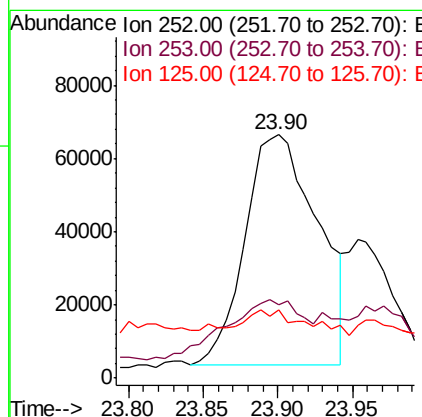
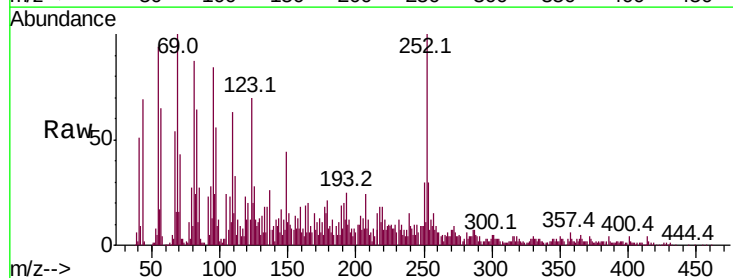
Instrument :
BNA_G
ClientSampleId :
SB-3K-(0-2)DL

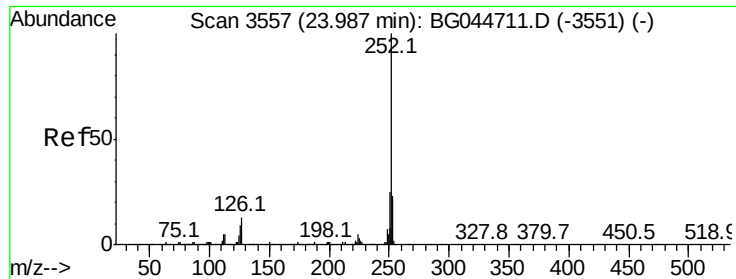
Tot Ion	Ratio	Lower	Upper
264	100		
260	24.2	18.1	27.1
265	22.6	17.1	25.7



#88
Benzo(b)fluoranthene
Concen: 6.318 ng
RT: 23.90 min Scan# 3543
Delta R.T. 0.02 min
Lab File: BG044973.D
Acq: 8 Apr 2020 12:39

Tgt Ion	Ratio	Lower	Upper
252	100		
253	30.0	18.1	27.1#
125	27.9	6.6	9.8#





#89

Benzo(k)fluoranthene

Concen: 6.677 ng

RT: 23.90 min Scan# 3543

Delta R.T. -0.04 min

Lab File: BG044973.D

Acq: 8 Apr 2020 12:39

Instrument :

BNA_G

ClientSampleId :

SB-3K-(0-2)DL

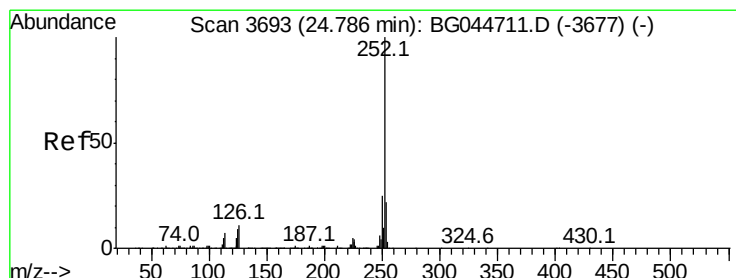
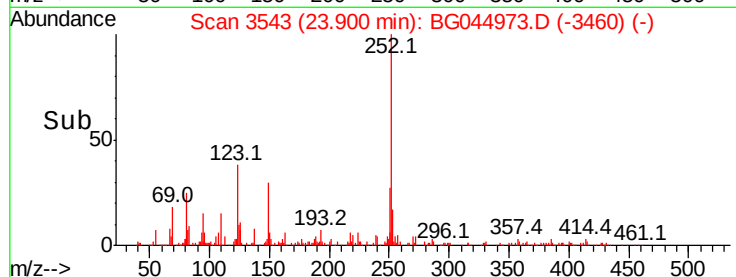
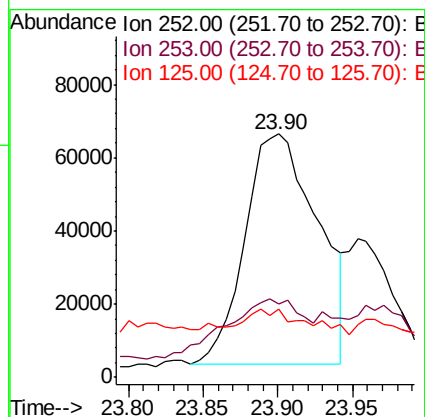
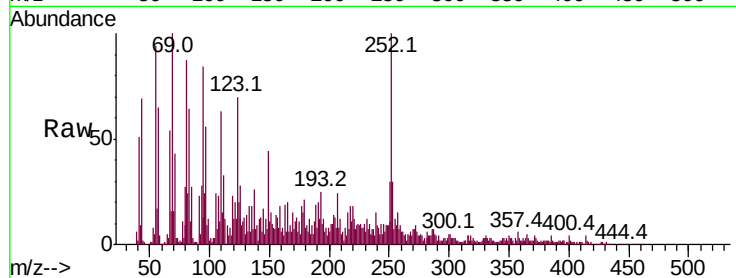
Tot Ion:252 Resp: 212674

Ion Ratio Lower Upper

252 100

253 30.0 18.5 27.7#

125 27.9 6.2 9.2#



#90

Benzo(a)pyrene

Concen: 5.224 ng

RT: 24.76 min Scan# 3690

Delta R.T. 0.02 min

Lab File: BG044973.D

Acq: 8 Apr 2020 12:39

Tgt Ion:252 Resp: 164527

Ion Ratio Lower Upper

252 100

253 30.8 19.4 29.0#

125 21.6 7.2 10.8#

