

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG062119\
 Data File : BG041394.D
 Acq On : 22 Jun 2019 4:00
 Operator : HP/JU
 Sample : K3159-07 2X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 OR-02-061919-B

Quant Time: Jun 22 04:59:57 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG061719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 17 14:58:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.05	152	28953	20.00	ng	-0.03
21) Naphthalene-d8	10.88	136	116762	20.00	ng	-0.03
39) Acenaphthene-d10	14.69	164	88777	20.00	ng	-0.03
64) Phenanthrene-d10	17.44	188	218158	20.00	ng	-0.02
76) Chrysene-d12	21.71	240	216835	20.00	ng	-0.03
87) Perylene-d12	25.01	264	228360	20.00	ng	-0.04

System Monitoring Compounds						
5) 2-Fluorophenol	5.59	112	90069	57.16	ng	-0.02
7) Phenol-d6	7.21	99	134350	58.82	ng	-0.02
23) Nitrobenzene-d5	9.23	82	94308	33.97	ng	-0.03
42) 2,4,6-Tribromophenol	16.18	330	70415	51.66	ng	-0.02
45) 2-Fluorobiphenyl	13.31	172	217974	33.37	ng	-0.03
79) Terphenyl-d14	20.04	244	360305	32.93	ng	-0.02

Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	9.23	70	13845	7.495	ng	# 75
50) Dimethylphthalate	14.14	163	26277	3.327	ng	# 99
51) 2,6-Dinitrotoluene	14.70	165	11658	7.000	ng	# 15
52) Acenaphthene	14.75	154	21038	4.086	ng	96
55) Dibenzofuran	15.09	168	23857	2.665	ng	92
56) 4-Nitrophenol	15.09	139	9263	10.348	ng	# 1
58) Fluorene	15.74	166	39276	5.577	ng	96
71) Phenanthrene	17.48	178	387286	33.286	ng	99
72) Anthracene	17.57	178	111973	9.762	ng	98
75) Fluoranthene	19.49	202	563312	36.443	ng	99
78) Pyrene	19.85	202	489237	33.456	ng	99
81) Benzo(a)anthracene	21.69	228	250255	17.045	ng	99
83) Chrysene	21.76	228	211230	14.961	ng	97
86) Indeno(1,2,3-cd)pyrene	28.77	276	117696	7.026	ng	97
88) Benzo(b)fluoranthene	23.96	252	245306	17.333	ng	97
89) Benzo(k)fluoranthene	23.96	252	245306	17.497	ng	96
90) Benzo(a)pyrene	24.85	252	191406	14.321	ng	99
91) Dibenzo(a,h)anthracene	28.81	278	35579	2.644	ng	# 86
92) Benzo(g,h,i)perylene	29.98	276	110862	8.337	ng	98

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

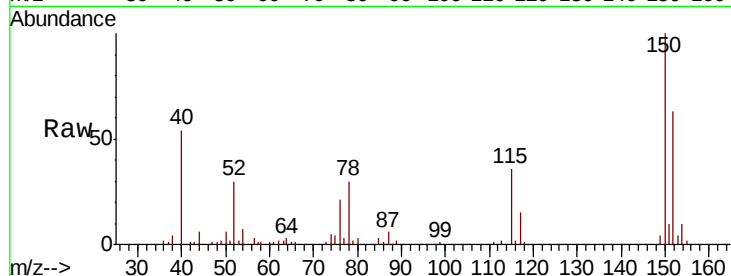


#1

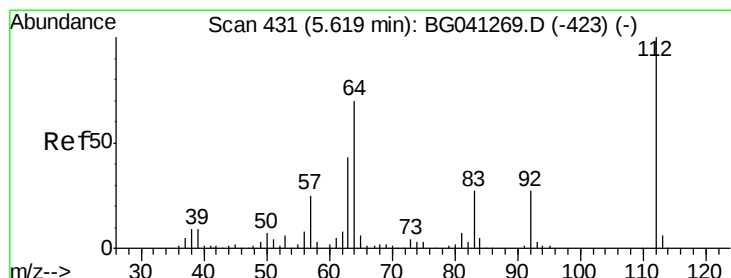
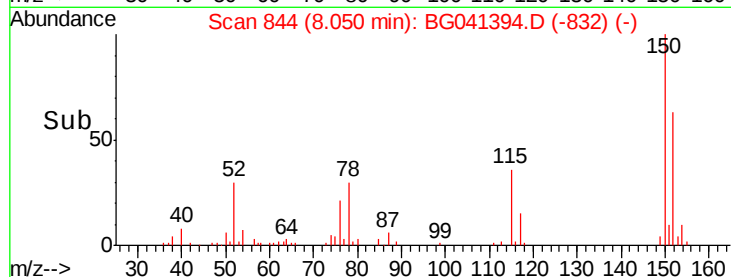
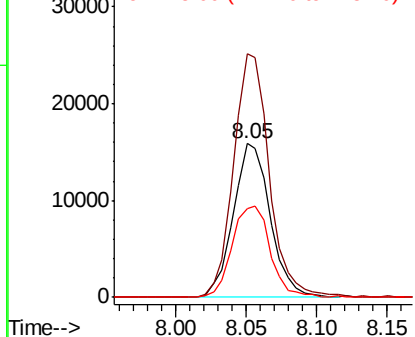
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.05 min Scan# 844
Delta R.T. -0.03 min
Lab File: BG041394.D
Acq: 22 Jun 2019 4:00

Instrument :
BNA_G
ClientSampleId :
OR-02-061919-B

Tgt Ion:152 Resp: 28953
Ion Ratio Lower Upper
152 100
150 158.6 120.6 181.0
115 57.4 47.9 71.9



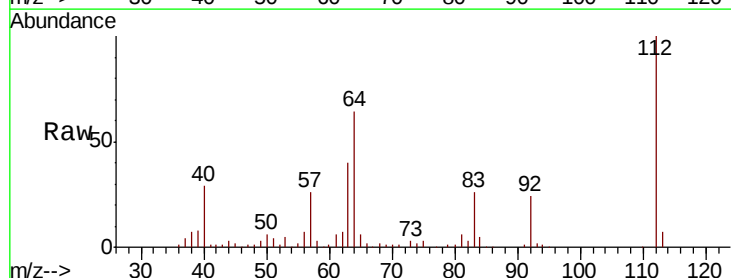
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



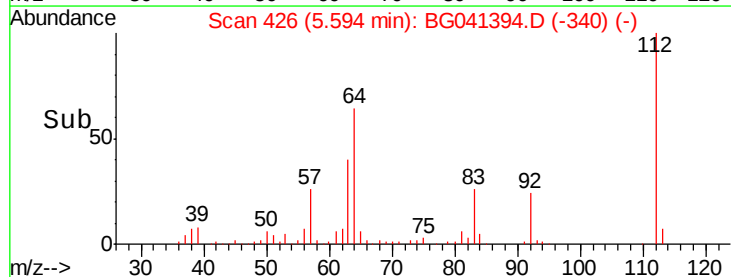
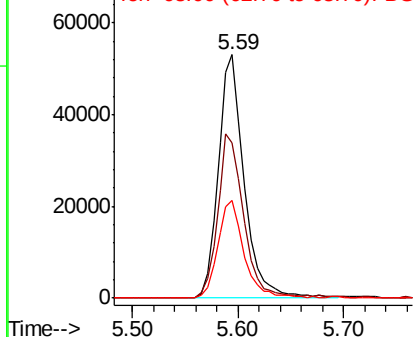
#5

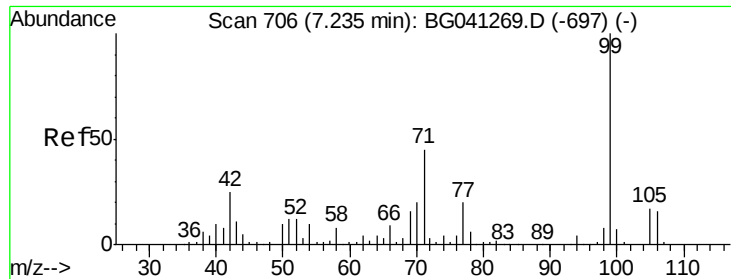
2-Fluorophenol
Concen: 57.160 ng
RT: 5.59 min Scan# 426
Delta R.T. -0.02 min
Lab File: BG041394.D
Acq: 22 Jun 2019 4:00

Tgt Ion:112 Resp: 90069
Ion Ratio Lower Upper
112 100
64 63.9 55.9 83.9
63 40.0 34.6 51.8



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





#7

Phenol-d6

Concen: 58.821 ng

RT: 7.21 min Scan# 701

Delta R.T. -0.02 min

Lab File: BG041394.D

Acq: 22 Jun 2019 4:00

Instrument :

BNA_G

ClientSampleId :

OR-02-061919-B

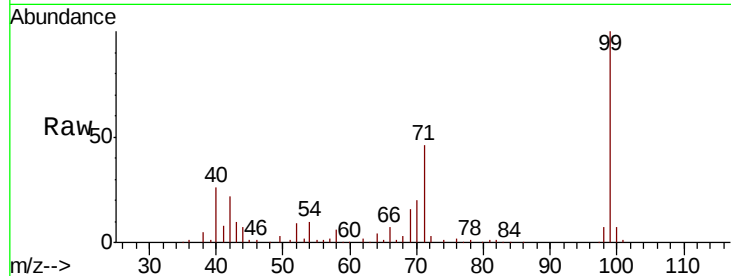
Tgt Ion: 99 Resp: 134350

Ion Ratio Lower Upper

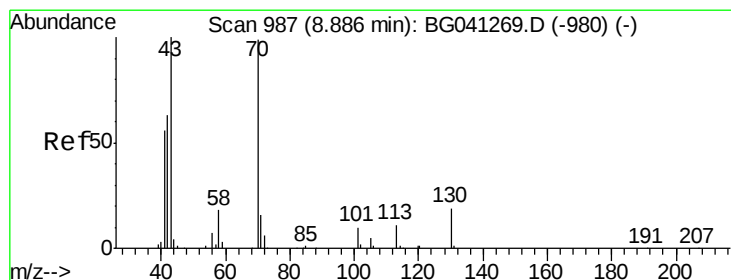
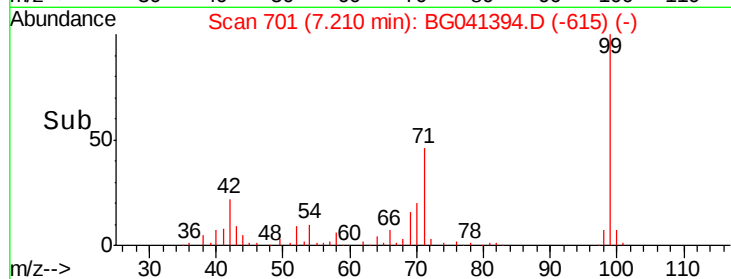
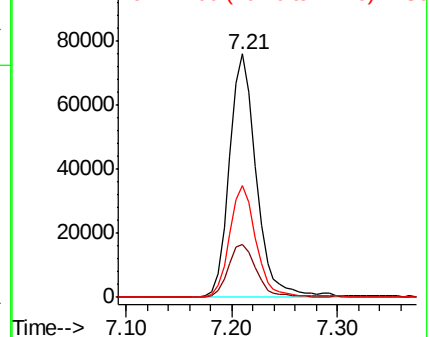
99 100

42 21.8 19.9 29.9

71 45.9 36.4 54.6



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: 7.495 ng

RT: 9.23 min Scan# 1045

Delta R.T. 0.35 min

Lab File: BG041394.D

Acq: 22 Jun 2019 4:00

Tgt Ion: 70 Resp: 13845

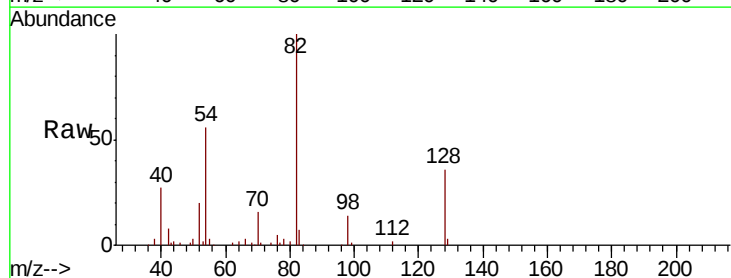
Ion Ratio Lower Upper

70 100

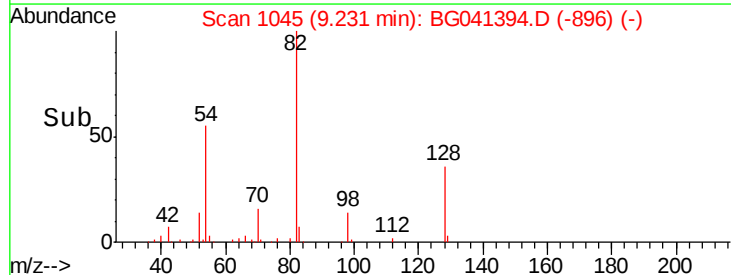
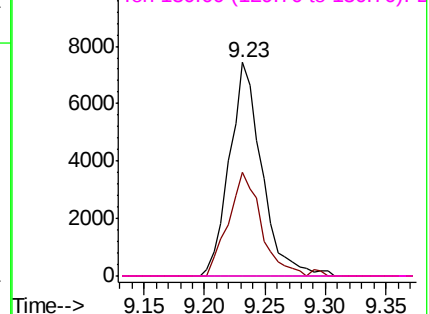
42 48.5 51.4 77.2#

101 0.0 8.2 12.2#

130 0.0 15.2 22.8#



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

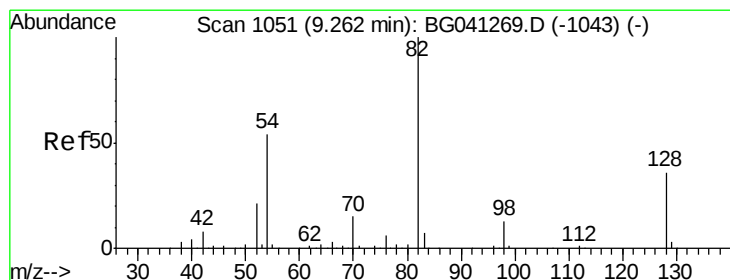
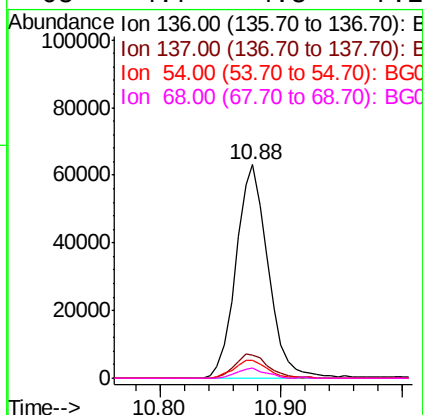
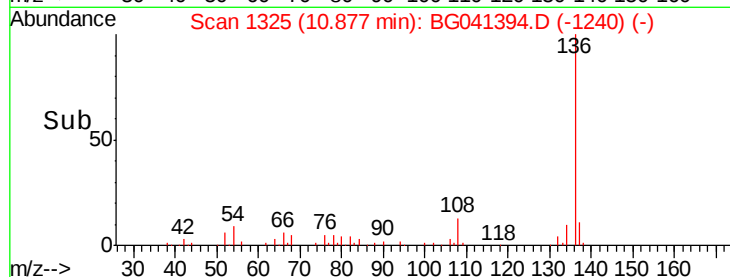
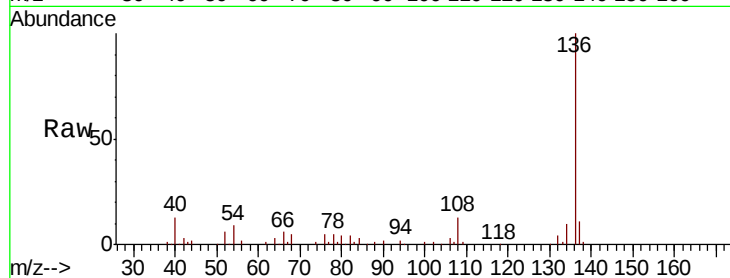




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.88 min Scan# 1325
Delta R.T. -0.03 min
Lab File: BG041394.D
Acq: 22 Jun 2019 4:00

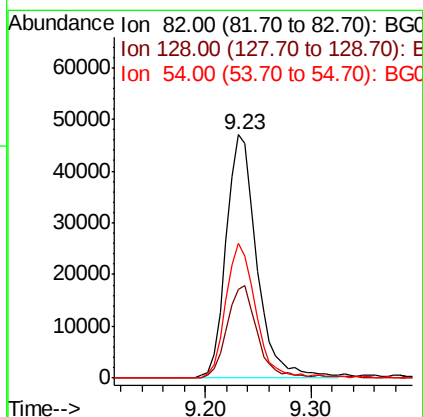
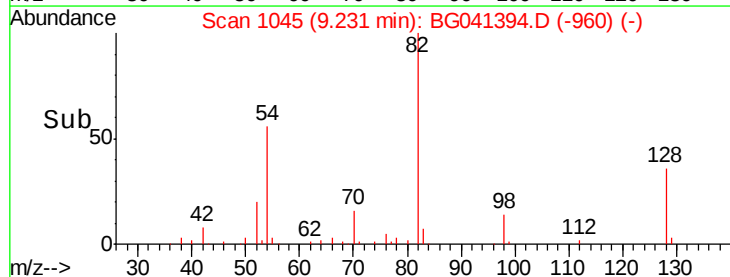
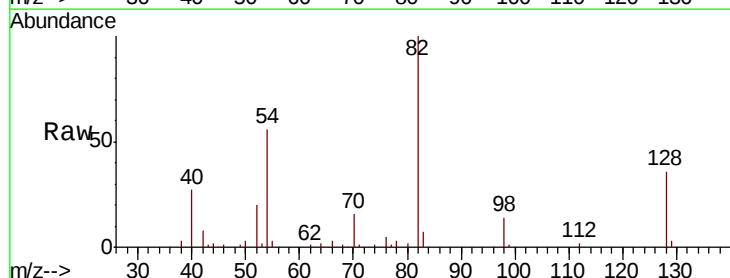
Instrument :
BNA_G
ClientSampleId :
OR-02-061919-B

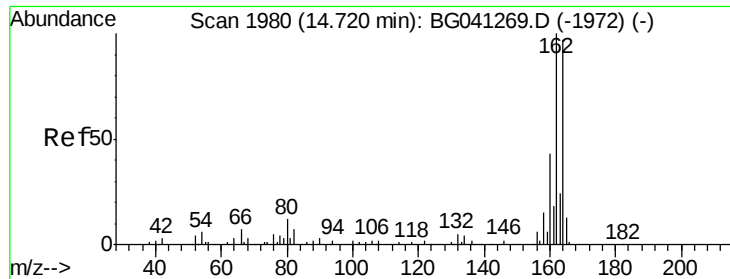
Tgt Ion:	136	Resp:	116762
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.8	13.2
54	8.7	6.4	9.6
68	4.7	4.8	7.2#



#23
Nitrobenzene-d5
Concen: 33.969 ng
RT: 9.23 min Scan# 1045
Delta R.T. -0.03 min
Lab File: BG041394.D
Acq: 22 Jun 2019 4:00

Tgt Ion:	82	Resp:	94308
Ion	Ratio	Lower	Upper
82	100		
128	36.4	29.2	43.8
54	55.6	43.4	65.0





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.69 min Scan# 1974

Delta R.T. -0.03 min

Lab File: BG041394.D

Acq: 22 Jun 2019 4:00

Instrument :

BNA_G

ClientSampleId :

OR-02-061919-B

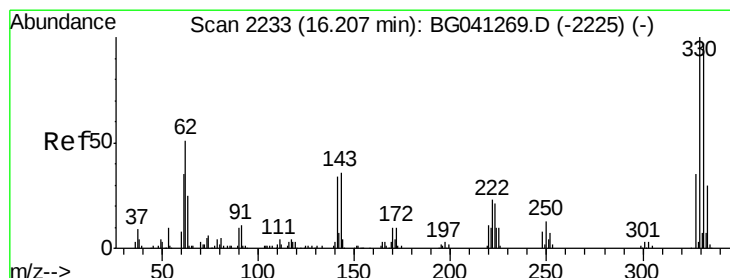
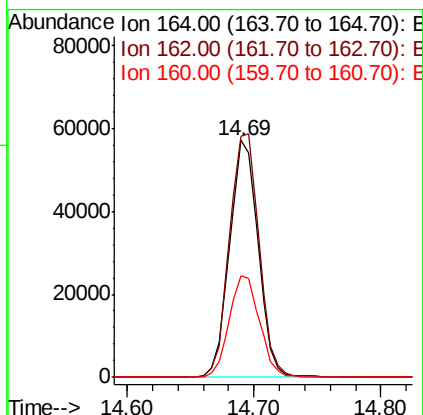
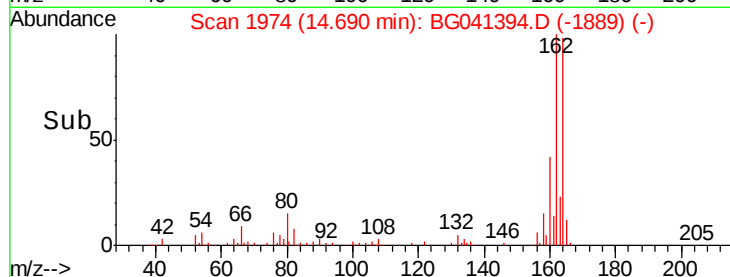
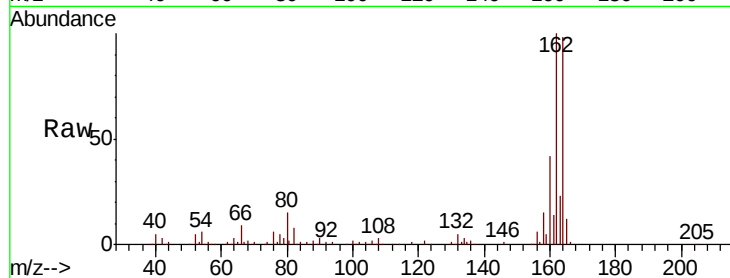
Tgt Ion:164 Resp: 88777

Ion Ratio Lower Upper

164 100

162 101.8 82.8 124.2

160 42.9 35.8 53.8



#42

2,4,6-Tribromophenol

Concen: 51.665 ng

RT: 16.18 min Scan# 2228

Delta R.T. -0.02 min

Lab File: BG041394.D

Acq: 22 Jun 2019 4:00

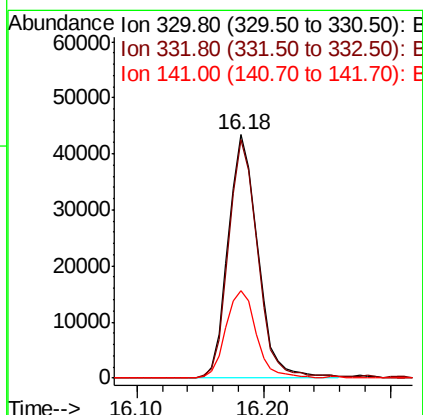
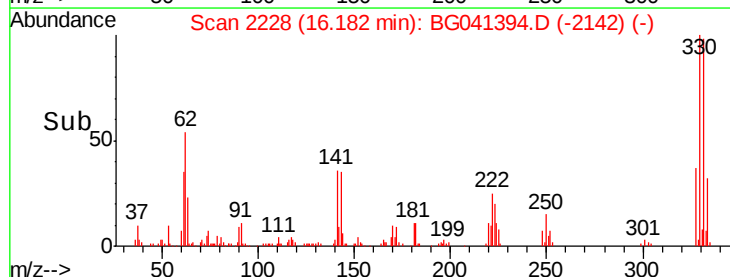
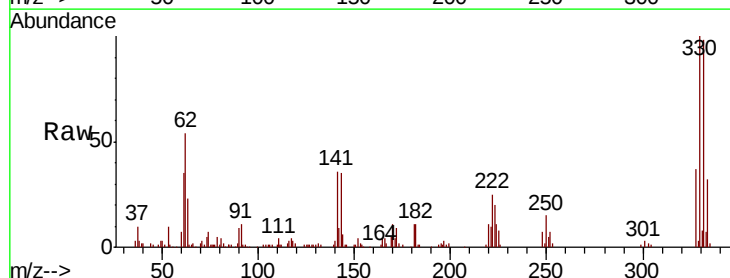
Tgt Ion:330 Resp: 70415

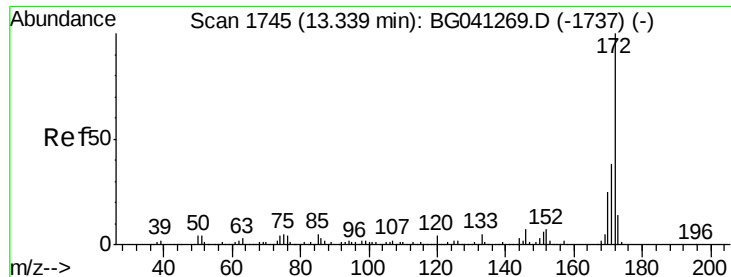
Ion Ratio Lower Upper

330 100

332 96.2 75.5 113.3

141 36.8 29.0 43.4

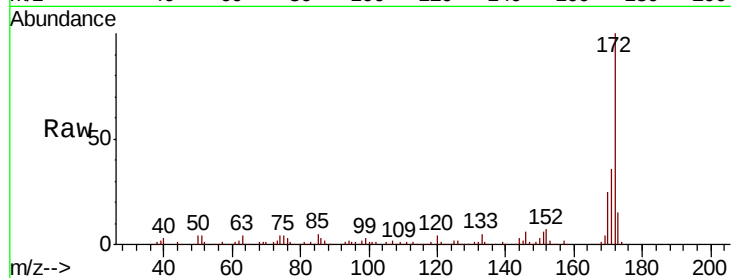




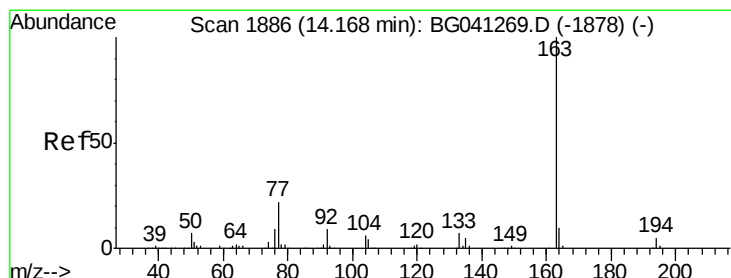
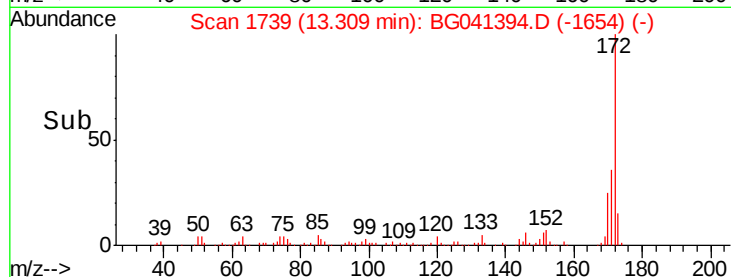
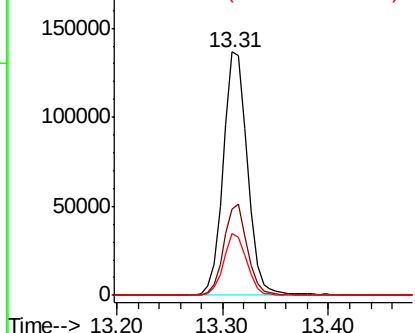
#45
2-Fluorobiphenyl
Concen: 33.371 ng
RT: 13.31 min Scan# 1739
Delta R.T. -0.03 min
Lab File: BG041394.D
Acq: 22 Jun 2019 4:00

Instrument :
BNA_G
ClientSampleId :
OR-02-061919-B

Tgt Ion:172 Resp: 217974
Ion Ratio Lower Upper
172 100
171 35.6 30.0 45.0
170 25.2 19.8 29.6

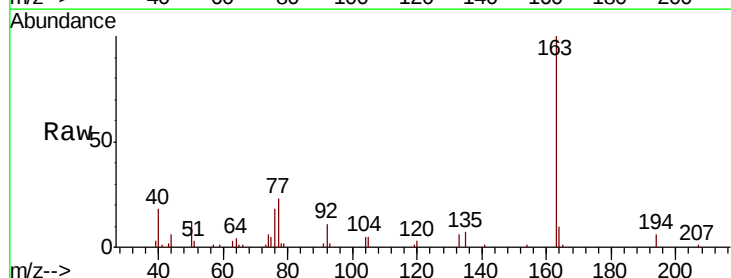


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

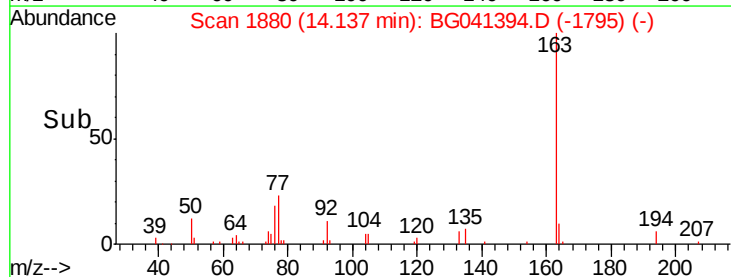
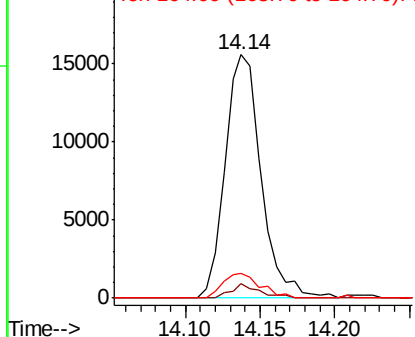


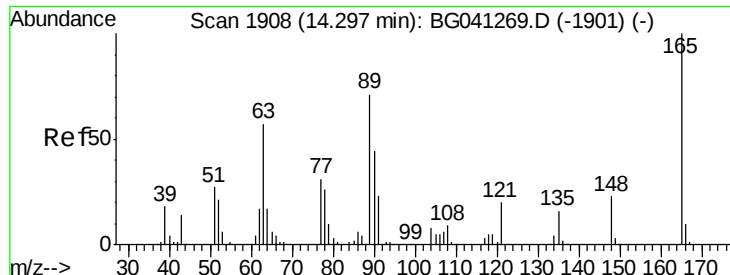
#50
Dimethylphthalate
Concen: 3.327 ng
RT: 14.14 min Scan# 1880
Delta R.T. -0.03 min
Lab File: BG041394.D
Acq: 22 Jun 2019 4:00

Tgt Ion:163 Resp: 26277
Ion Ratio Lower Upper
163 100
194 5.9 3.9 5.9#
164 10.3 8.3 12.5



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

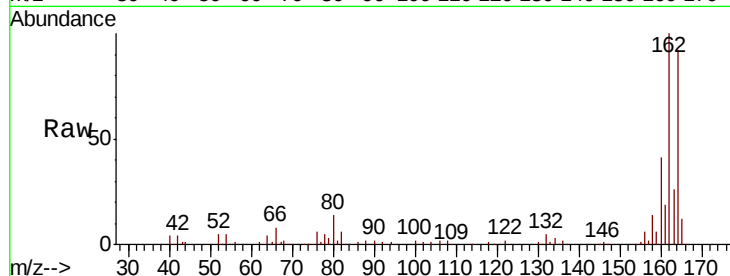




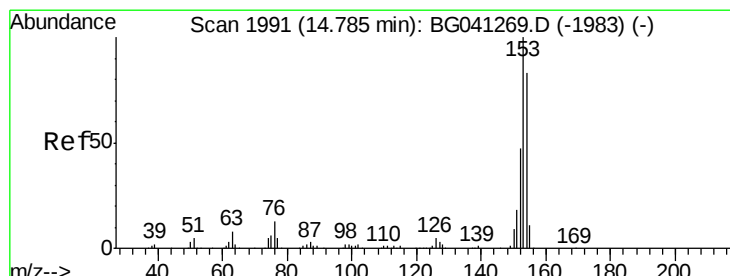
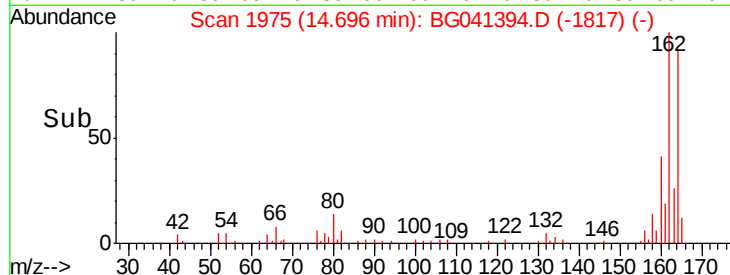
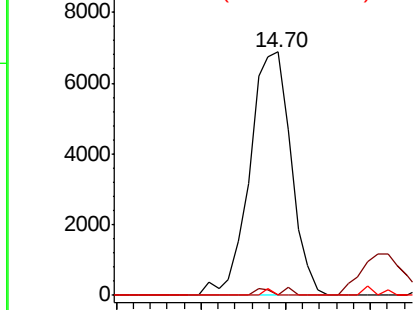
#51
2,6-Dinitrotoluene
Concen: 7.000 ng
RT: 14.70 min Scan# 1975
Delta R.T. 0.40 min
Lab File: BG041394.D
Acq: 22 Jun 2019 4:00

Instrument :
BNA_G
ClientSampleId :
OR-02-061919-B

Tgt Ion:165 Resp: 11658
Ion Ratio Lower Upper
165 100
63 0.0 55.4 83.0#
89 0.0 56.5 84.7#

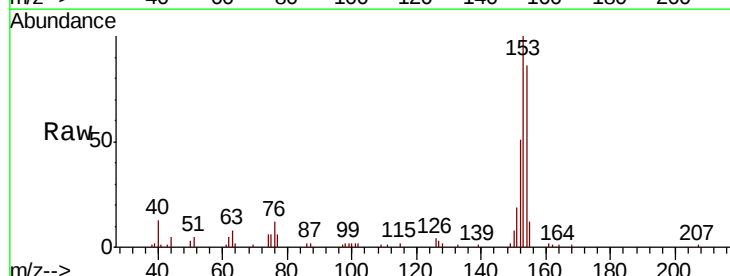


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BG
Ion 89.00 (88.70 to 89.70): BG

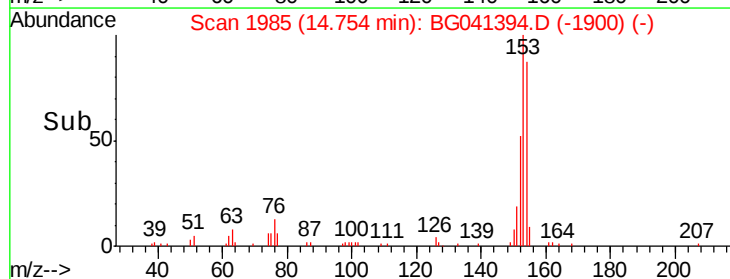
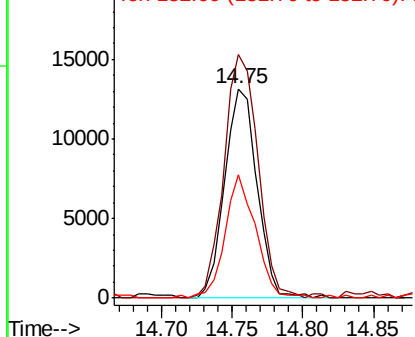


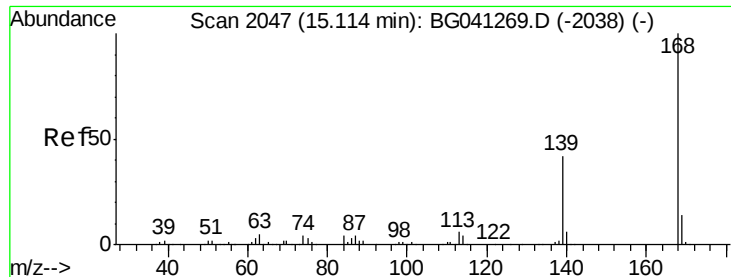
#52
Acenaphthene
Concen: 4.086 ng
RT: 14.75 min Scan# 1985
Delta R.T. -0.03 min
Lab File: BG041394.D
Acq: 22 Jun 2019 4:00

Tgt Ion:154 Resp: 21038
Ion Ratio Lower Upper
154 100
153 116.5 96.6 145.0
152 59.2 45.5 68.3



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

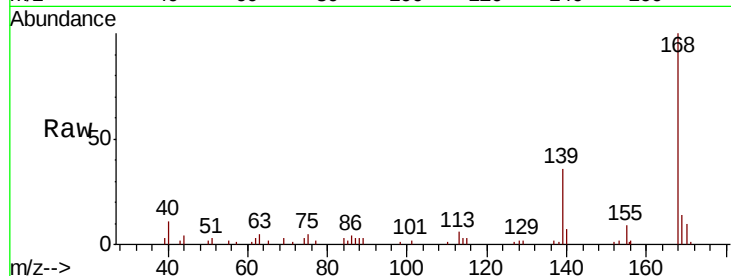




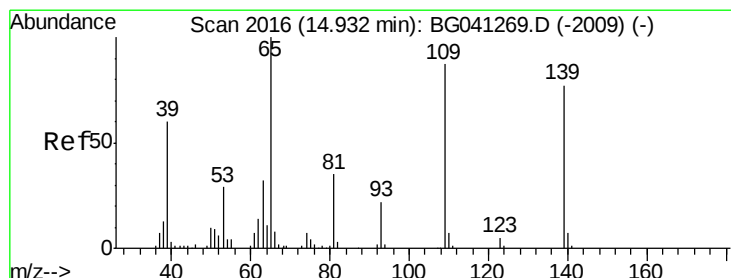
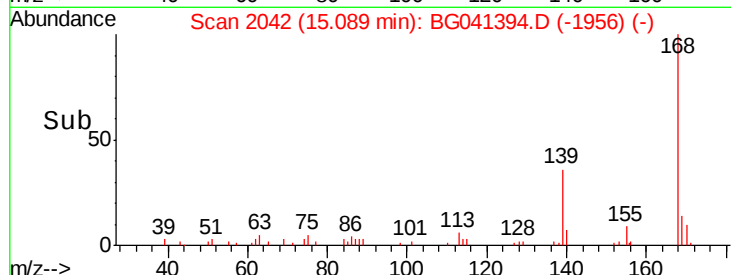
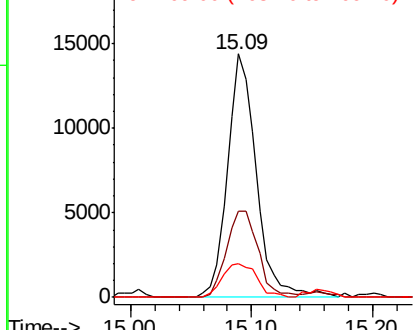
#55
Dibenzenofuran
Concen: 2.665 ng
RT: 15.09 min Scan# 2042
Delta R.T. -0.02 min
Lab File: BG041394.D
Acq: 22 Jun 2019 4:00

Instrument :
BNA_G
ClientSampleId :
OR-02-061919-B

Tgt Ion:168 Resp: 23857
Ion Ratio Lower Upper
168 100
139 35.6 33.6 50.4
169 13.9 10.8 16.2

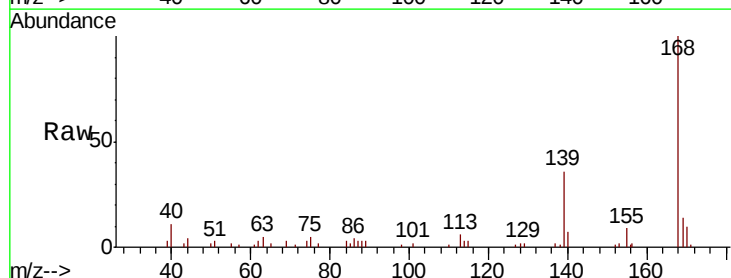


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

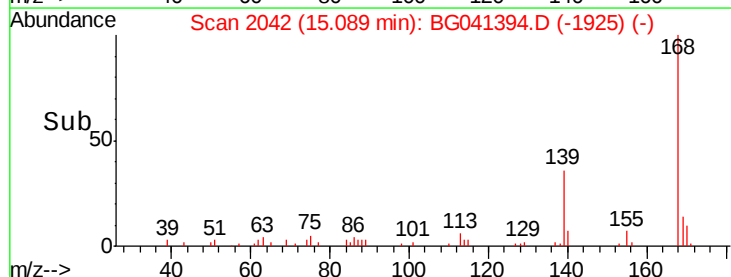
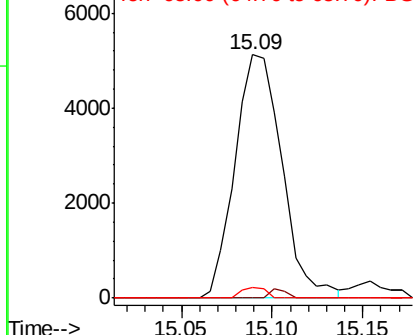


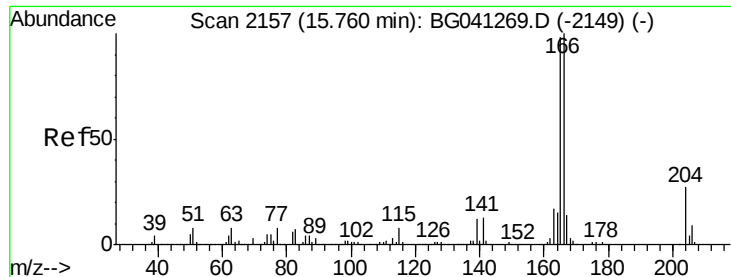
#56
4-Nitrophenol
Concen: 10.348 ng
RT: 15.09 min Scan# 2042
Delta R.T. 0.16 min
Lab File: BG041394.D
Acq: 22 Jun 2019 4:00

Tgt Ion:139 Resp: 9263
Ion Ratio Lower Upper
139 100
109 0.0 93.2 133.2#
65 4.5 110.2 150.2#



Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BGC





#58

Fluorene

Concen: 5.577 ng

RT: 15.74 min Scan# 2152

Delta R.T. -0.02 min

Lab File: BG041394.D

Acq: 22 Jun 2019 4:00

Instrument :

BNA_G

ClientSampleId :

OR-02-061919-B

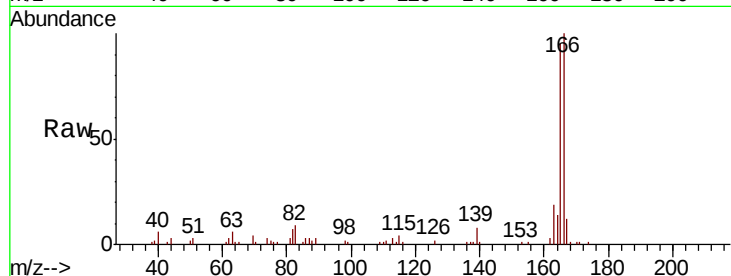
Tgt Ion:166 Resp: 39276

Ion Ratio Lower Upper

166 100

165 94.9 78.8 118.2

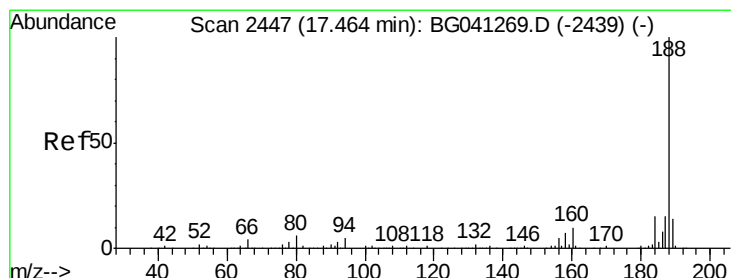
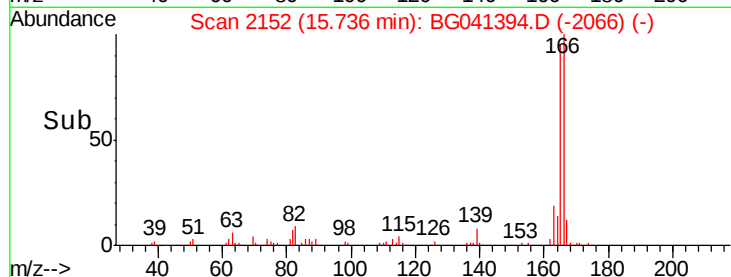
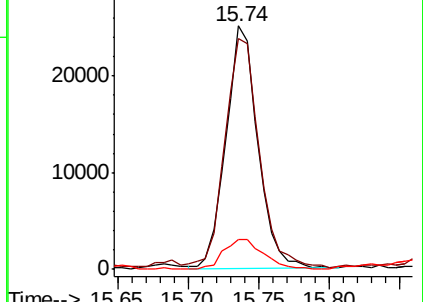
167 12.4 11.3 16.9



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.44 min Scan# 2442

Delta R.T. -0.02 min

Lab File: BG041394.D

Acq: 22 Jun 2019 4:00

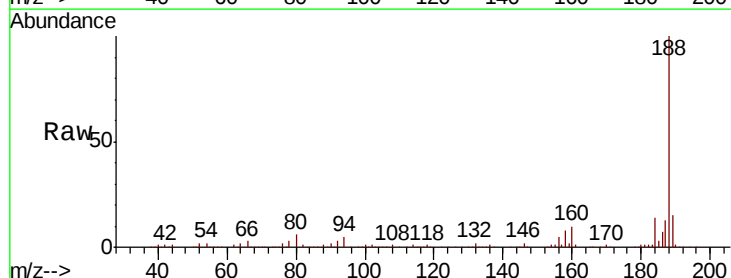
Tgt Ion:188 Resp: 218158

Ion Ratio Lower Upper

188 100

94 5.1 3.6 5.4

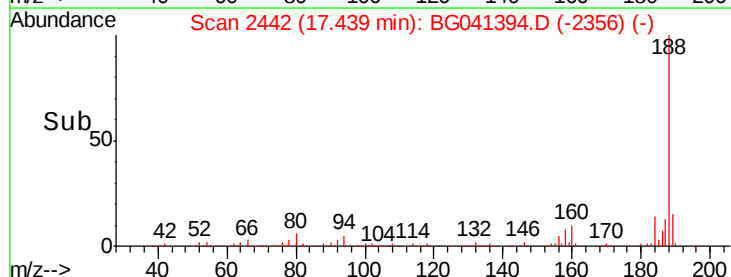
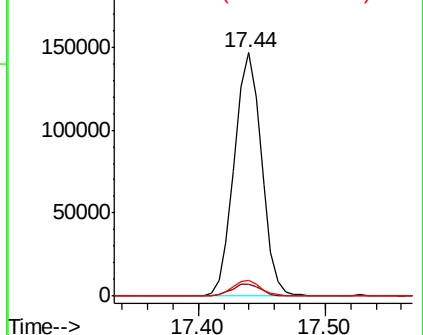
80 6.5 4.8 7.2

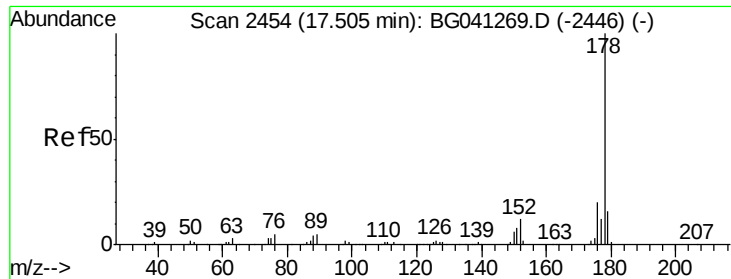


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG

Ion 80.00 (79.70 to 80.70): BG

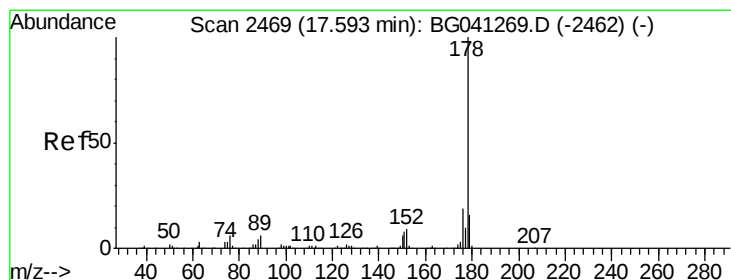
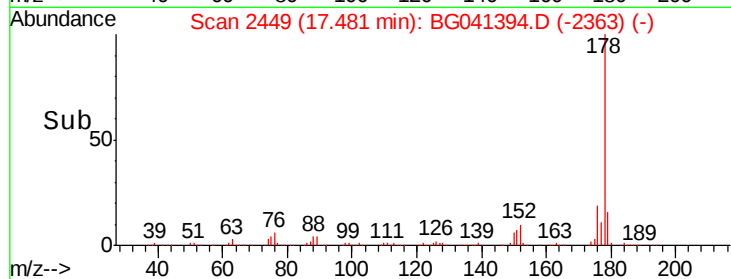
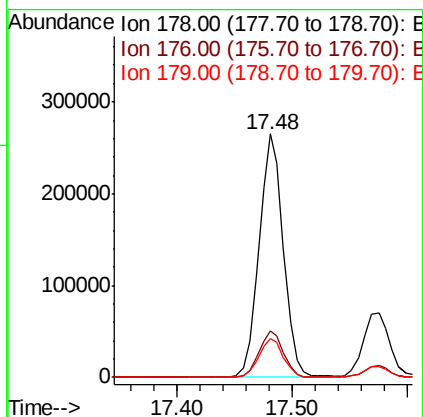
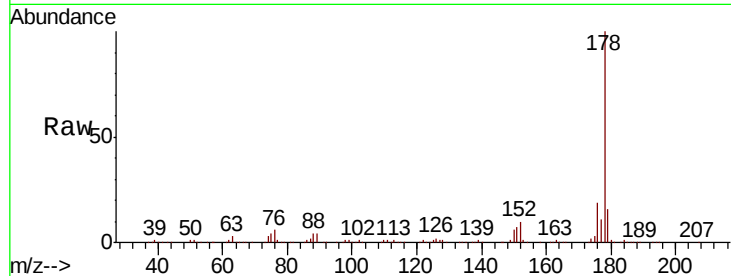




#71
Phenanthrene
Concen: 33.286 ng
RT: 17.48 min Scan# 2449
Delta R.T. -0.02 min
Lab File: BG041394.D
Acq: 22 Jun 2019 4:00

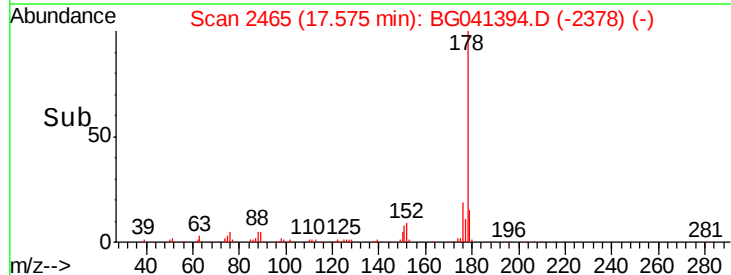
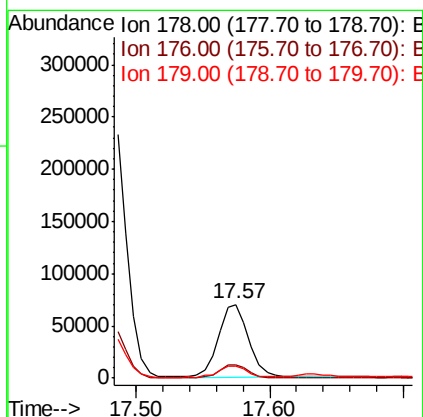
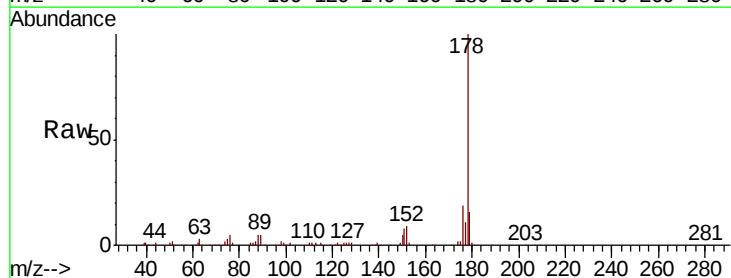
Instrument :
BNA_G
ClientSampleId :
OR-02-061919-B

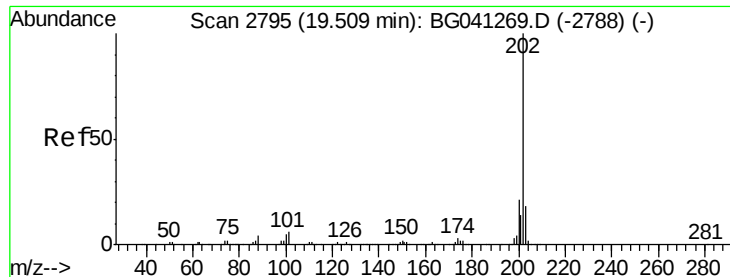
Tgt Ion:178 Resp: 387286
Ion Ratio Lower Upper
178 100
176 19.1 16.1 24.1
179 15.8 12.9 19.3



#72
Anthracene
Concen: 9.762 ng
RT: 17.57 min Scan# 2465
Delta R.T. -0.02 min
Lab File: BG041394.D
Acq: 22 Jun 2019 4:00

Tgt Ion:178 Resp: 111973
Ion Ratio Lower Upper
178 100
176 18.6 15.4 23.2
179 15.5 13.0 19.4





#75

Fluoranthene

Concen: 36.443 ng

RT: 19.49 min Scan# 2791

Delta R.T. -0.02 min

Lab File: BG041394.D

Acq: 22 Jun 2019 4:00

Instrument :

BNA_G

ClientSampleId :

OR-02-061919-B

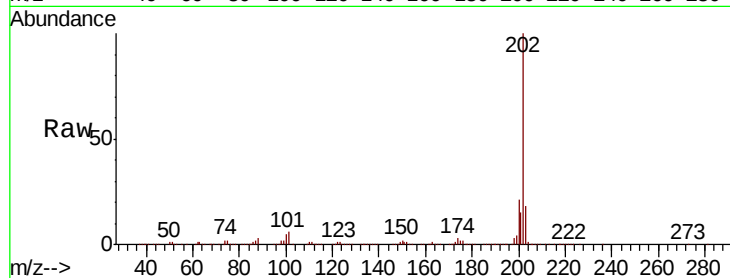
Tgt Ion:202 Resp: 563312

Ion Ratio Lower Upper

202 100

101 5.6 0.0 26.0

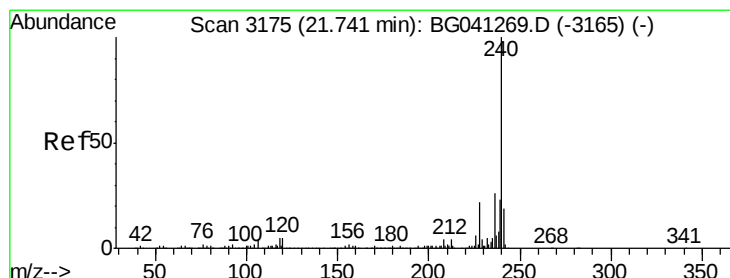
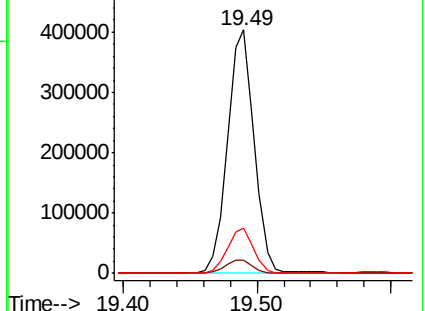
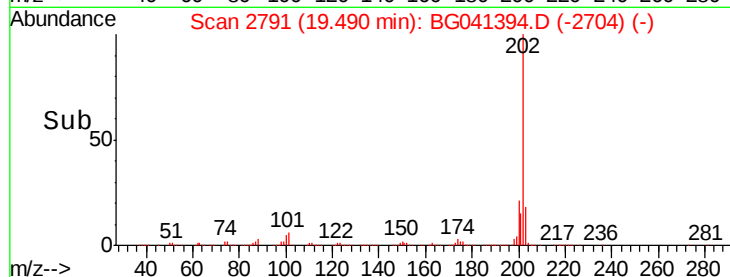
203 18.4 0.0 37.7



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: 21.71 min Scan# 3169

Delta R.T. -0.03 min

Lab File: BG041394.D

Acq: 22 Jun 2019 4:00

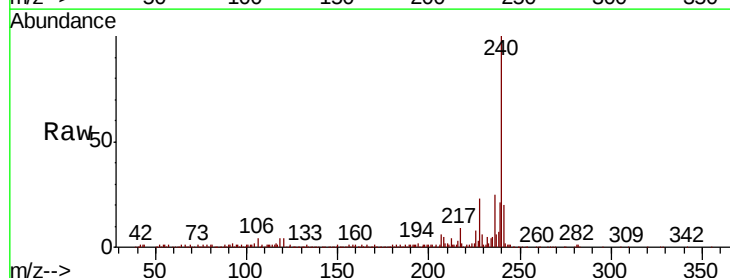
Tgt Ion:240 Resp: 216835

Ion Ratio Lower Upper

240 100

120 4.1 3.7 5.5

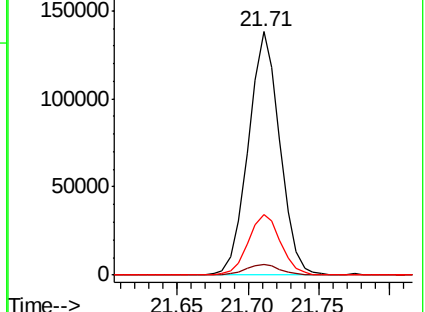
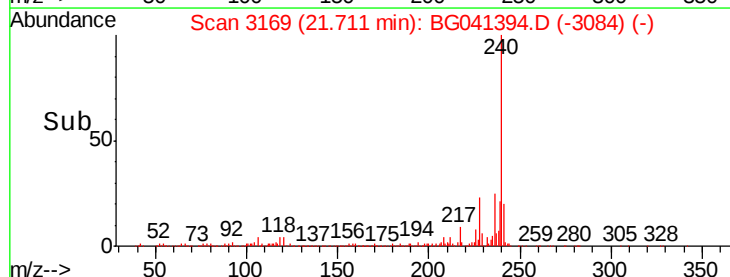
236 25.0 21.1 31.7

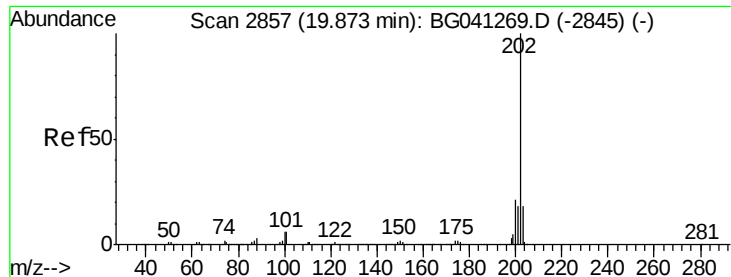


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

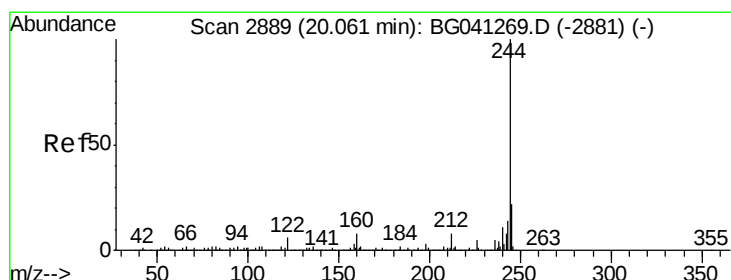
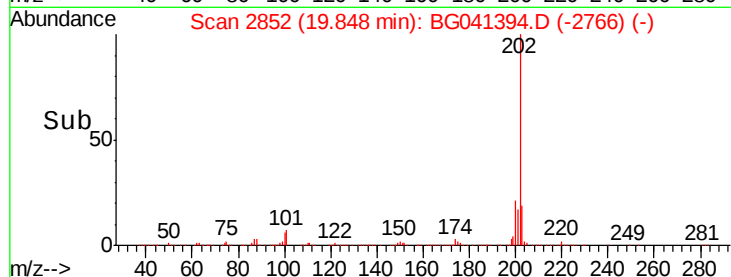
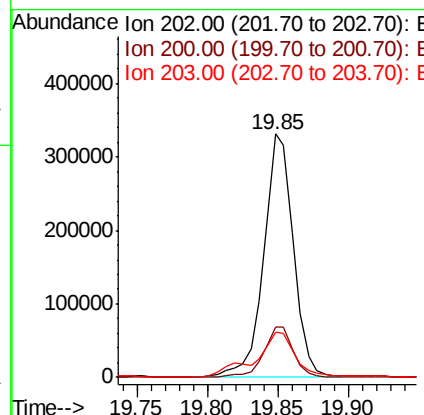
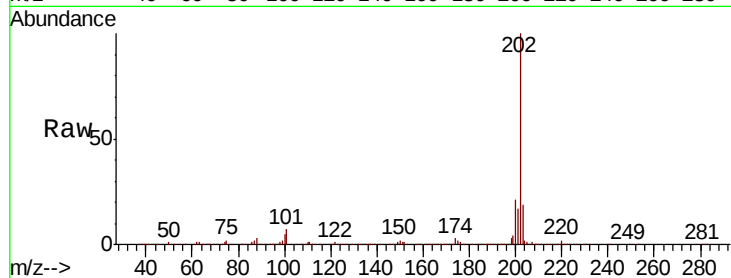




#78
 Pyrene
 Concen: 33.456 ng
 RT: 19.85 min Scan# 2852
 Delta R.T. -0.02 min
 Lab File: BG041394.D
 Acq: 22 Jun 2019 4:00

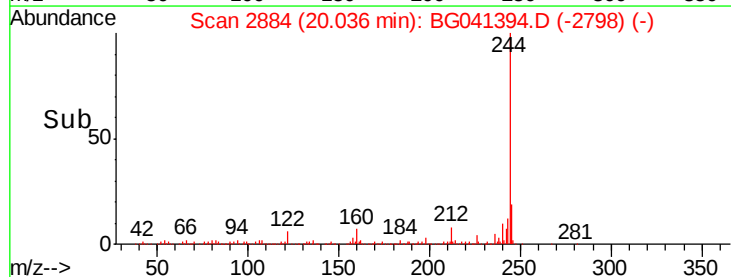
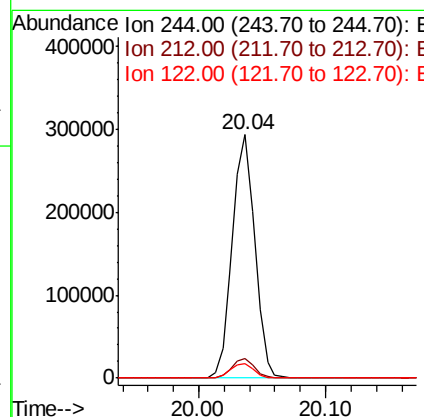
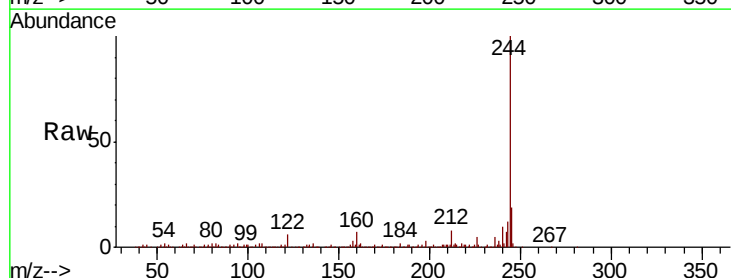
Instrument :
 BNA_G
 ClientSampleId :
 OR-02-061919-B

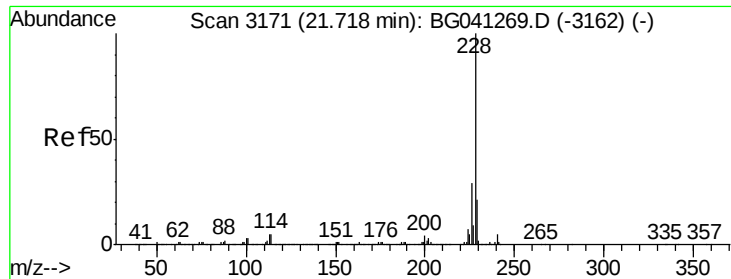
Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.8	25.2
203	18.8	14.6	21.8



#79
 Terphenyl-d14
 Concen: 32.931 ng
 RT: 20.04 min Scan# 2884
 Delta R.T. -0.02 min
 Lab File: BG041394.D
 Acq: 22 Jun 2019 4:00

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.1	6.6	10.0
122	5.8	5.0	7.4





#81

Benzo(a)anthracene

Concen: 17.045 ng

RT: 21.69 min Scan# 3166

Delta R.T. -0.02 min

Lab File: BG041394.D

Acq: 22 Jun 2019 4:00

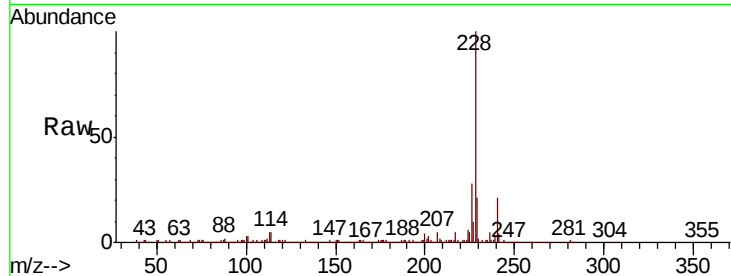
Instrument :

BNA_G

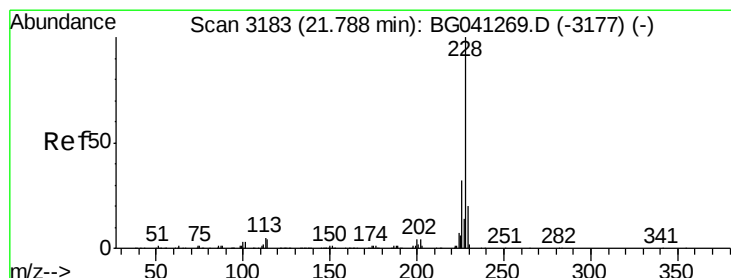
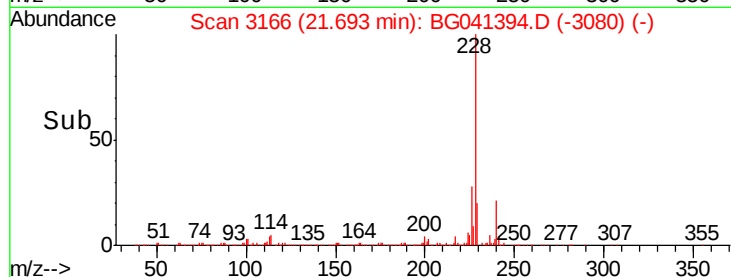
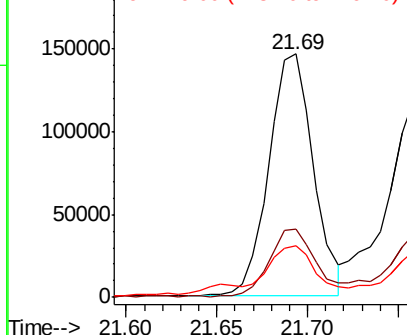
ClientSampleId :

OR-02-061919-B

Tgt Ion:	228	Resp:	250255
Ion	Ratio	Lower	Upper
228	100		
226	28.1	23.2	34.8
229	21.0	16.8	25.2



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: 14.961 ng

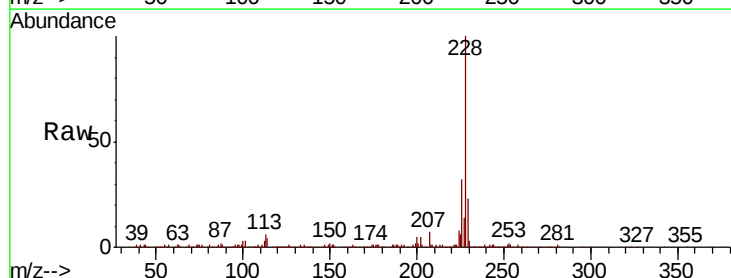
RT: 21.76 min Scan# 3177

Delta R.T. -0.03 min

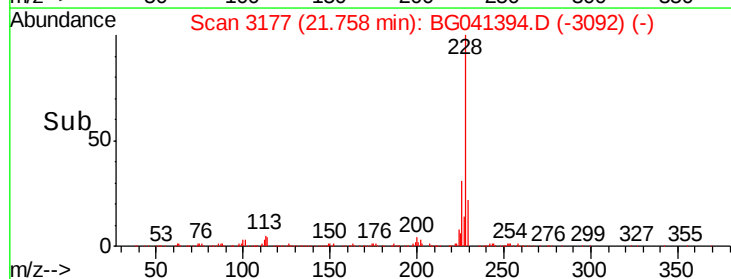
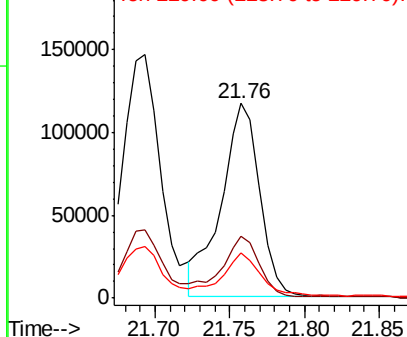
Lab File: BG041394.D

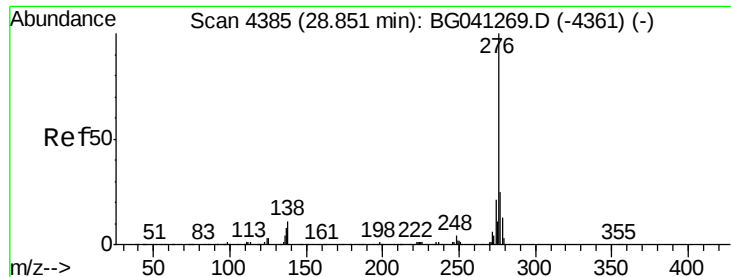
Acq: 22 Jun 2019 4:00

Tgt Ion:	228	Resp:	211230
Ion	Ratio	Lower	Upper
228	100		
226	31.5	25.4	38.0
229	23.3	16.2	24.2



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

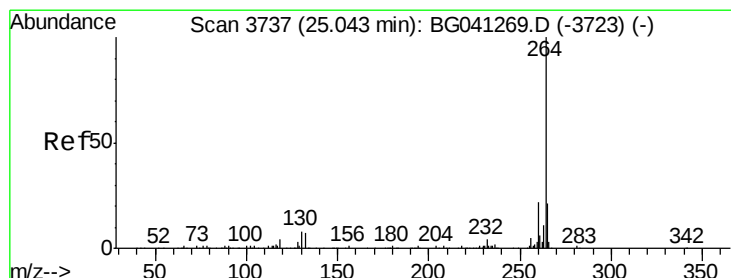
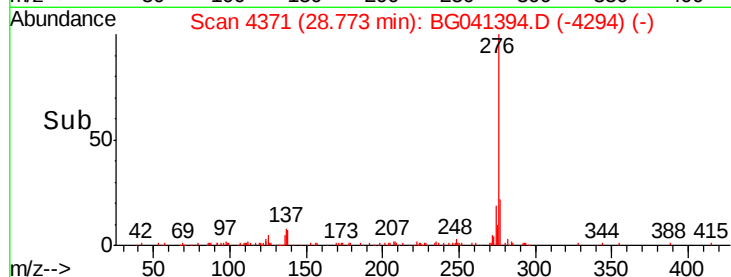
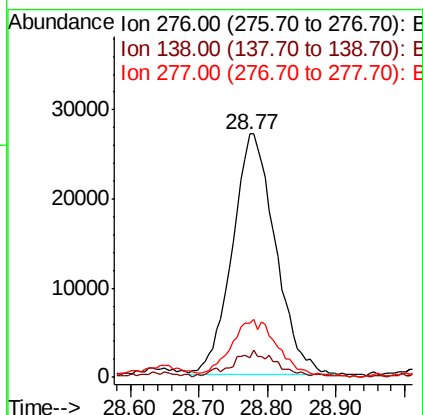
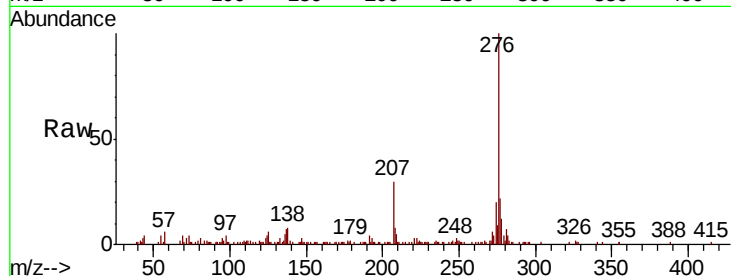




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 7.026 ng
 RT: 28.77 min Scan# 4371
 Delta R.T. -0.08 min
 Lab File: BG041394.D
 Acq: 22 Jun 2019 4:00

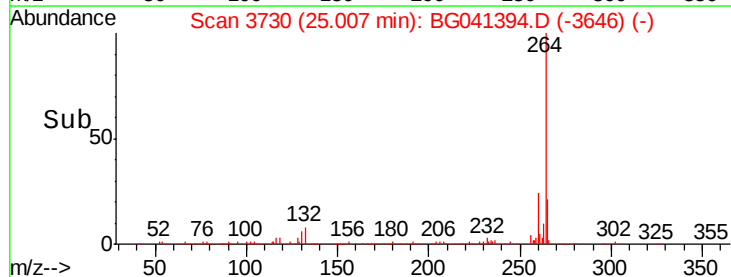
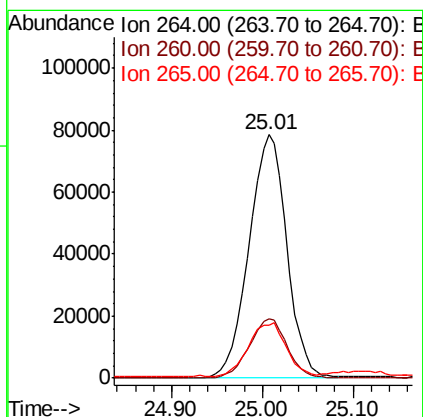
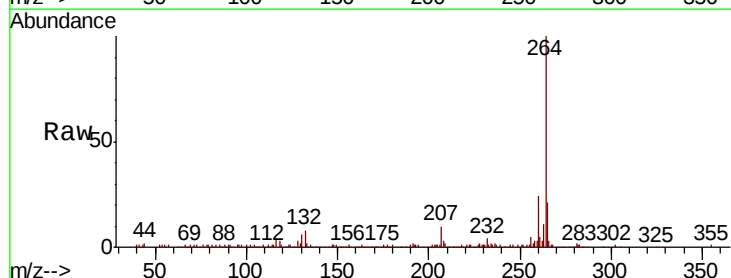
Instrument :
 BNA_G
 ClientSampleId :
 OR-02-061919-B

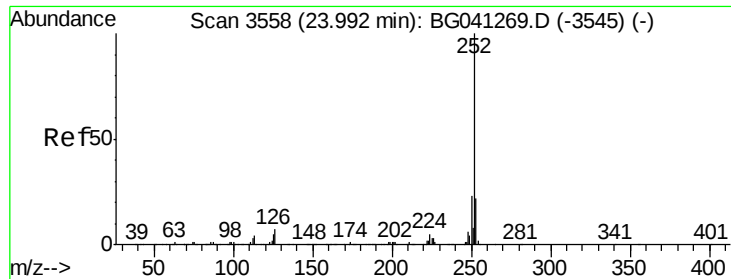
Tgt Ion: 276 Resp: 117696
 Ion Ratio Lower Upper
 276 100
 138 9.1 7.7 11.5
 277 23.7 20.6 31.0



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 25.01 min Scan# 3730
 Delta R.T. -0.04 min
 Lab File: BG041394.D
 Acq: 22 Jun 2019 4:00

Tgt Ion: 264 Resp: 228360
 Ion Ratio Lower Upper
 264 100
 260 24.3 17.4 26.2
 265 21.5 17.2 25.8

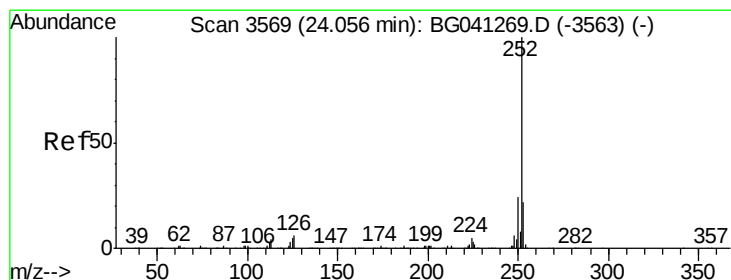
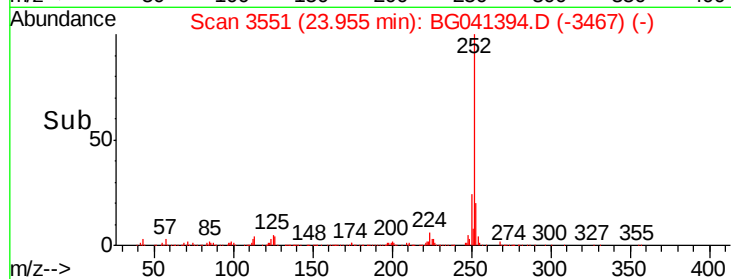
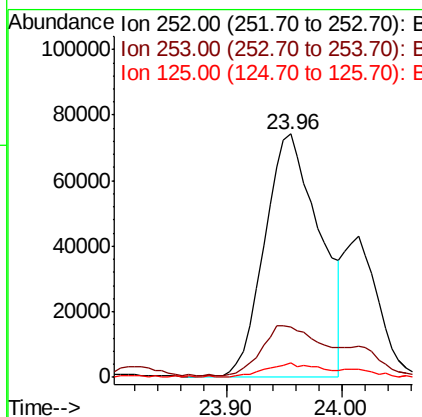
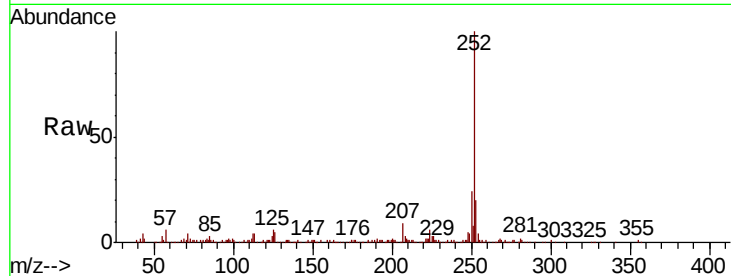




#88
 Benzo(b)fluoranthene
 Concen: 17.333 ng
 RT: 23.96 min Scan# 3551
 Delta R.T. -0.04 min
 Lab File: BG041394.D
 Acq: 22 Jun 2019 4:00

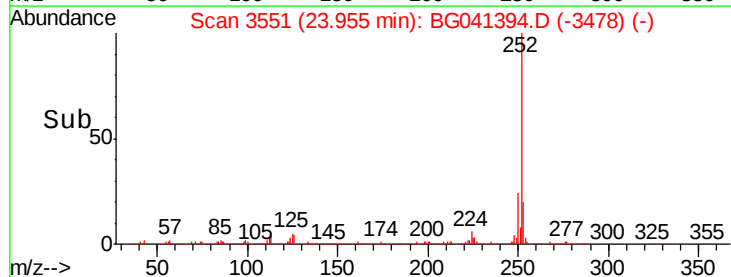
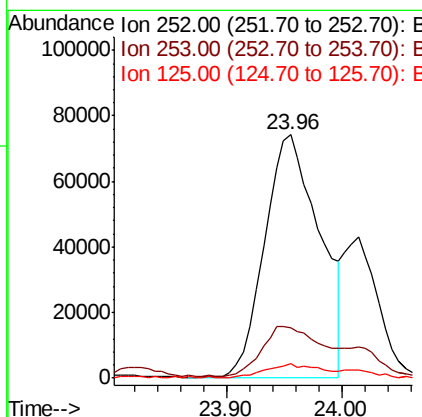
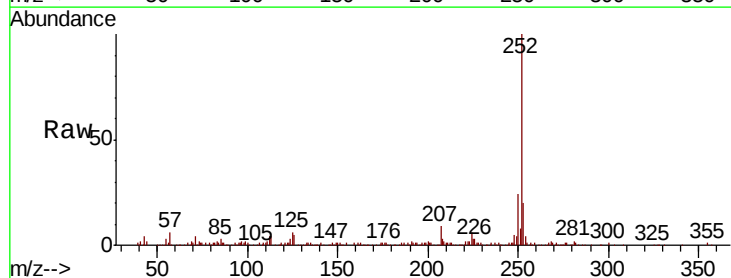
Instrument :
 BNA_G
 ClientSampleId :
 OR-02-061919-B

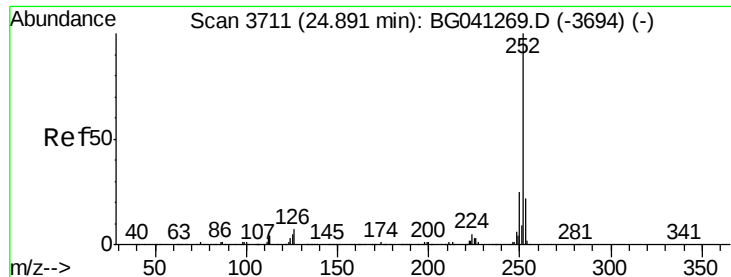
Tgt Ion	Ratio	Lower	Upper
252	100		
253	20.5	17.4	26.0
125	5.7	3.9	5.9



#89
 Benzo(k)fluoranthene
 Concen: 17.497 ng
 RT: 23.96 min Scan# 3551
 Delta R.T. -0.10 min
 Lab File: BG041394.D
 Acq: 22 Jun 2019 4:00

Tgt Ion	Ratio	Lower	Upper
252	100		
253	20.5	18.0	27.0
125	5.7	4.3	6.5





#90

Benzo(a)pyrene

Concen: 14.321 ng

RT: 24.85 min Scan# 3703

Delta R.T. -0.04 min

Lab File: BG041394.D

Acq: 22 Jun 2019 4:00

Instrument :

BNA_G

ClientSampleId :

OR-02-061919-B

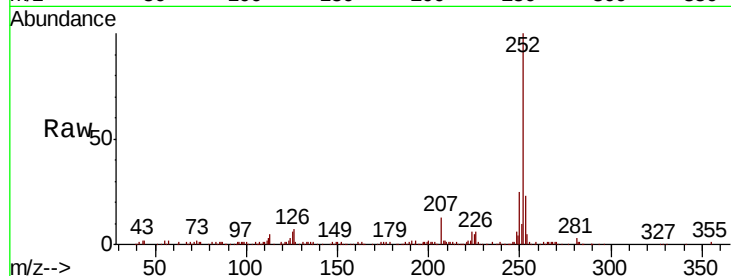
Tgt Ion:252 Resp: 191406

Ion Ratio Lower Upper

252 100

253 22.5 17.8 26.6

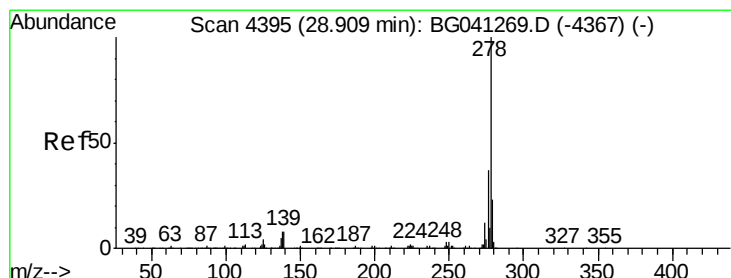
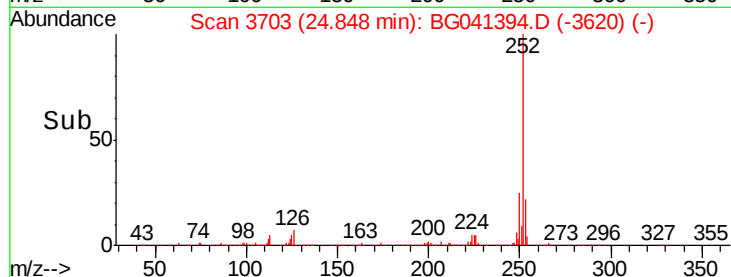
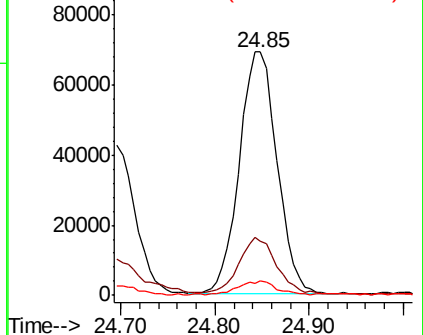
125 5.9 4.2 6.4



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: 2.644 ng

RT: 28.81 min Scan# 4378

Delta R.T. -0.10 min

Lab File: BG041394.D

Acq: 22 Jun 2019 4:00

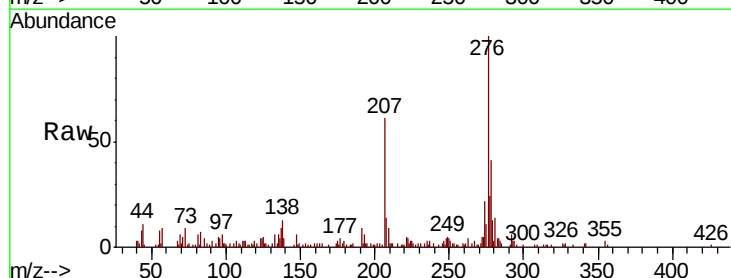
Tgt Ion:278 Resp: 35579

Ion Ratio Lower Upper

278 100

139 9.8 6.6 10.0

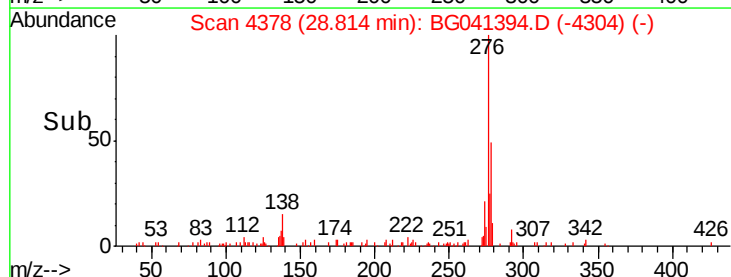
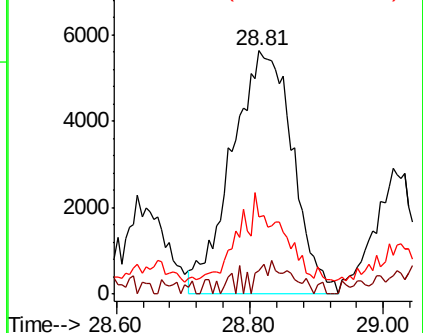
279 31.8 18.5 27.7#

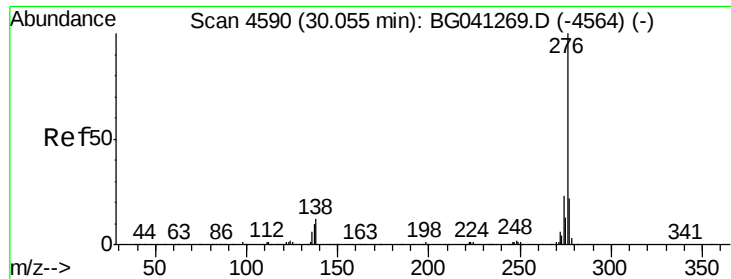


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92

Benzo(g,h,i)perylene

Concen: 8.337 ng

RT: 29.98 min Scan# 4576

Delta R.T. -0.08 min

Lab File: BG041394.D

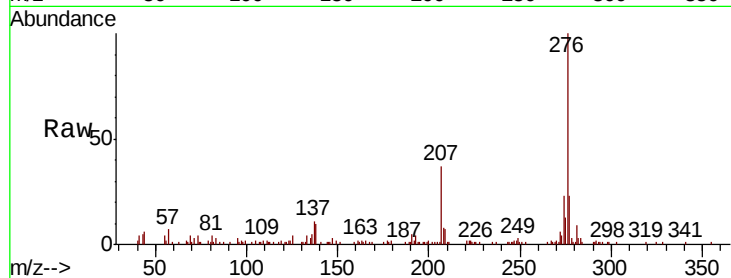
Acq: 22 Jun 2019 4:00

Instrument :

BNA_G

ClientSampleId :

OR-02-061919-B



Tgt Ion:	276	Resp:	110862
Ion	Ratio	Lower	Upper
276	100		
277	22.8	17.9	26.9
138	10.3	9.4	14.0

