

Data File : BG041943.D
Acq On : 4 Aug 2019 15:03
Operator : HP/JU
Sample : K3850-08DL 5X
Misc :
ALS Vial : 44 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
BENQ1DL

Quant Time: Aug 05 01:24:13 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 05 01:19:19 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.04	152	92506	20.00	ng/ul	0.00
18) Naphthalene-d8	10.86	136	371971	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.70	164	245222	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.45	188	482418	20.00	ng/ul	0.00
77) Chrysene-d12	21.74	240	475520	20.00	ng/ul	0.00
85) Perylene-d12	25.02	264	519427	20.00	ng/ul	0.03

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.42	96	1559	0.74	ng/uL	0.00
5) Phenol-d5	7.18	99	36297	5.00	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.35	67	21509	5.30	ng/ul	0.00
9) 2-Chlorophenol-d4	7.56	132	34964	5.63	ng/ul	0.00
13) 4-Methylphenol-d8	8.74	113	29837	4.90	ng/ul	0.00
19) Nitrobenzene-d5	9.21	128	17438	6.23	ng/ul	0.00
22) 2-Nitrophenol-d4	9.93	143	19390	5.96	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.48	165	38351	5.84	ng/ul	0.00
29) 4-Chloroaniline-d4	10.99	131	42197	5.79	ng/ul	0.00
43) Dimethylphthalate-d6	14.09	166	115910	6.09	ng/ul	0.00
46) Acenaphthylene-d8	14.39	160	148675	6.84	ng/ul	0.00
51) 4-Nitrophenol-d4	14.89	143	12426	3.89	ng/ul	0.01
57) Fluorene-d10	15.69	176	102297	6.05	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.82	200	5735	1.85	ng/ul	0.01
70) Anthracene-d10	17.55	188	155035	6.70	ng/ul	0.00
78) Pyrene-d10	19.84	212	176131	6.64	ng/ul	0.00
89) Benzo(a)pyrene-d12	24.79	264	176350	6.50	ng/ul	0.02

Target Compounds

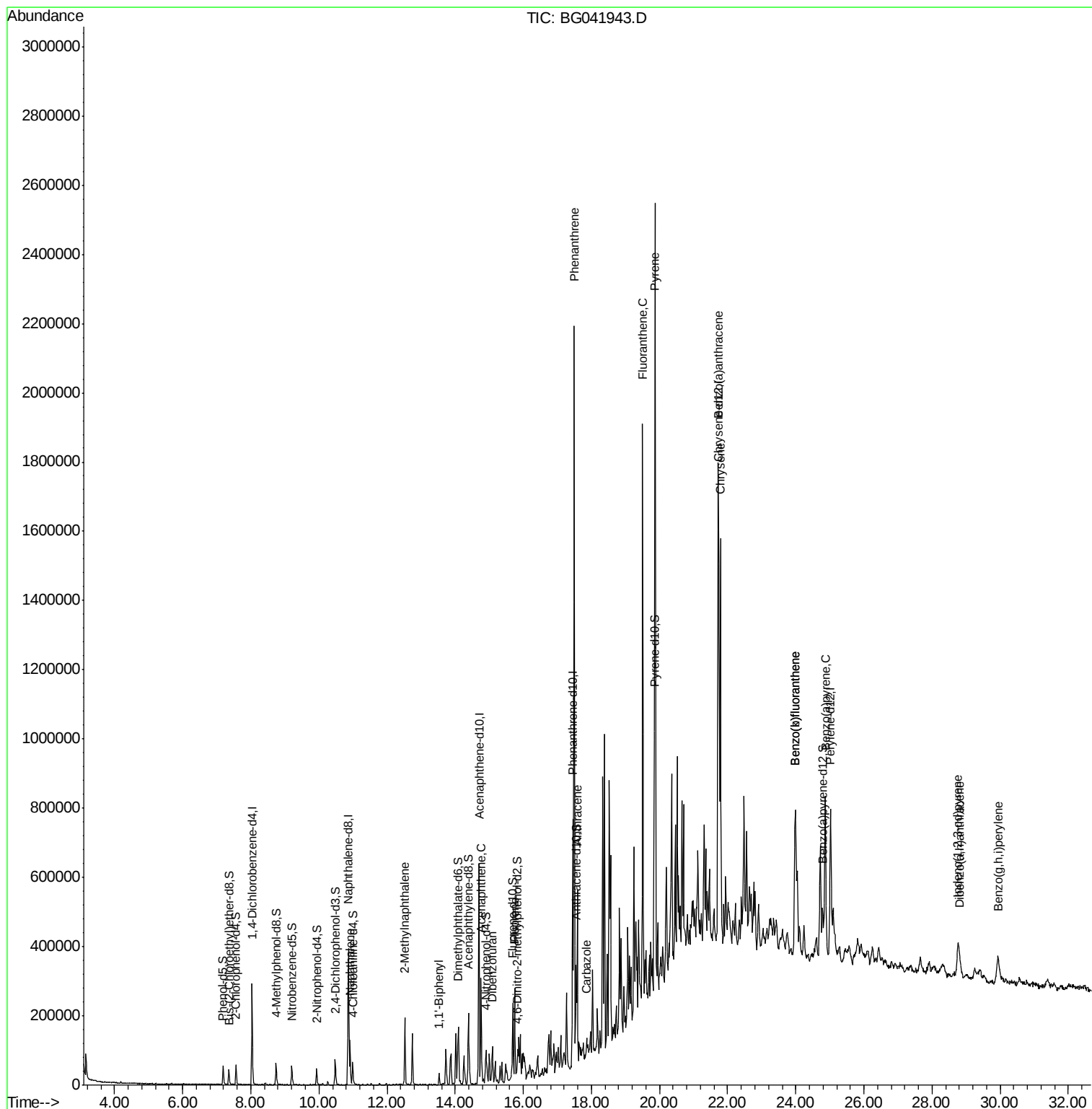
					Qvalue	
28) Naphthalene	10.91	128	113650	5.976	ng/ul	99
34) 2-Methylnaphthalene	12.52	142	106172	7.024	ng/ul	97
40) 1,1'-Biphenyl	13.53	154	17995	1.009	ng/ul#	92
49) Acenaphthene	14.76	153	142075	9.266	ng/ul	99
53) Dibenzofuran	15.09	168	27614	1.207	ng/ul	90
58) Fluorene	15.74	166	120557	6.541	ng/ul	98
69) Phenanthrene	17.50	178	1429313	54.120	ng/ul	94
71) Anthracene	17.58	178	354681	13.241	ng/ul	97
74) Carbazole	17.85	167	24243	1.093	ng/ul#	84
76) Fluoranthene	19.50	202	1048790	34.370	ng/ul	98
79) Pyrene	19.87	202	1579320	49.375	ng/ul	99
82) Benzo(a)anthracene	21.72	228	864513	26.221	ng/ul	97
84) Chrysene	21.78	228	903421	29.358	ng/ul	98
87) Benzo(b)fluoranthene	23.99	252	655287	20.103	ng/ul	100
88) Benzo(k)fluoranthene	23.99	252	655287	20.908	ng/ul	100
90) Benzo(a)pyrene	24.86	252	606824	19.536	ng/ul	99
91) Indeno(1,2,3-cd)pyrene	28.76	276	178019	4.914	ng/ul	97
92) Dibenzo(a,h)anthracene	28.81	278	39738	1.345	ng/ul#	88
93) Benzo(g,h,i)perylene	29.94	276	167982	5.553	ng/ul	96

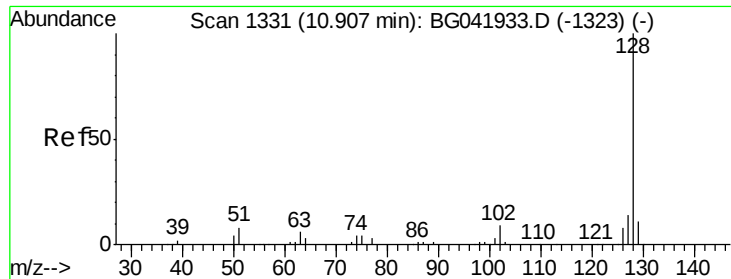
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#28

Naphthalene

Concen: 5.976 ng/ul

RT: 10.91 min Scan# 1331

Delta R.T. 0.00 min

Lab File: BG041943.D

Acq: 4 Aug 2019 15:03

Instrument :

BNA_G

ClientSampleId :

BENQ1DL

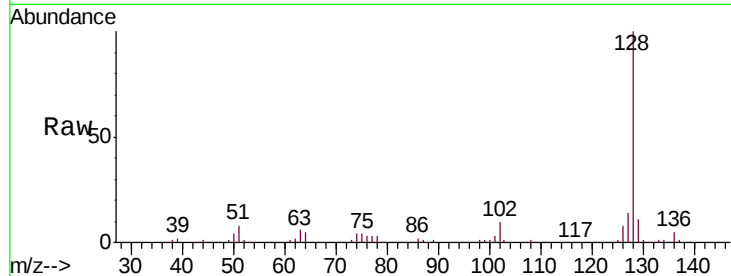
Tgt Ion:128 Resp: 113650

Ion Ratio Lower Upper

128 100

129 11.1 9.5 14.3

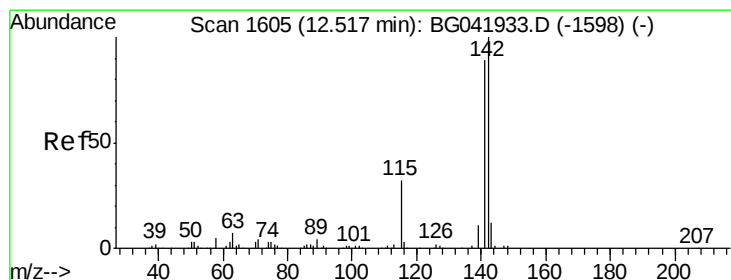
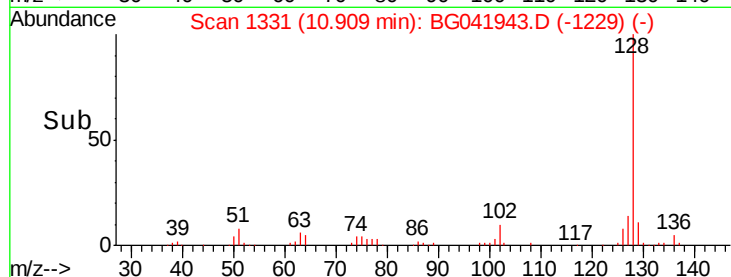
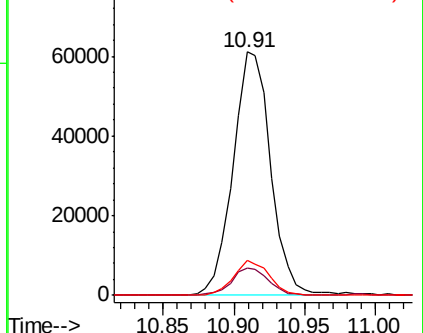
127 14.4 11.4 17.0



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#34

2-Methylnaphthalene

Concen: 7.024 ng/ul

RT: 12.52 min Scan# 1606

Delta R.T. 0.01 min

Lab File: BG041943.D

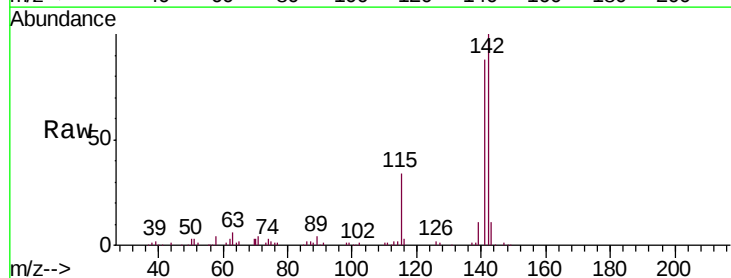
Acq: 4 Aug 2019 15:03

Tgt Ion:142 Resp: 106172

Ion Ratio Lower Upper

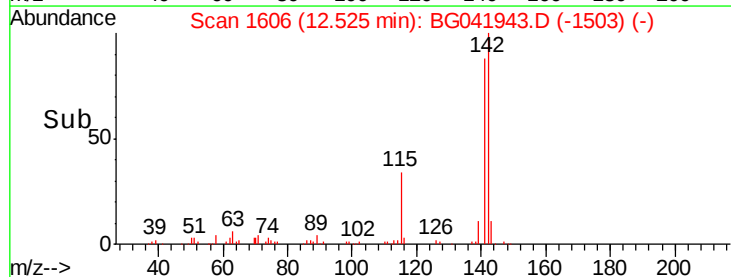
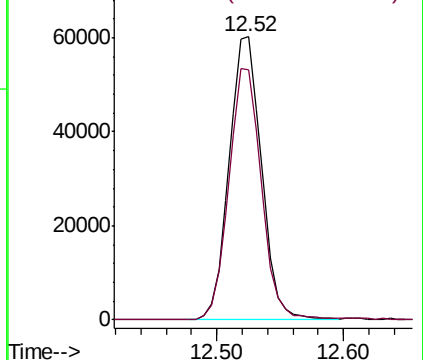
142 100

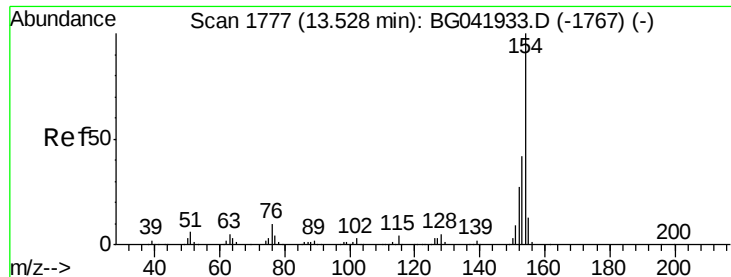
141 88.4 72.9 109.3



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#40

1,1'-Biphenyl

Concen: 1.009 ng/ul

RT: 13.53 min Scan# 1777

Delta R.T. 0.00 min

Lab File: BG041943.D

Acq: 4 Aug 2019 15:03

Instrument :

BNA_G

ClientSampleId :

BENQ1DL

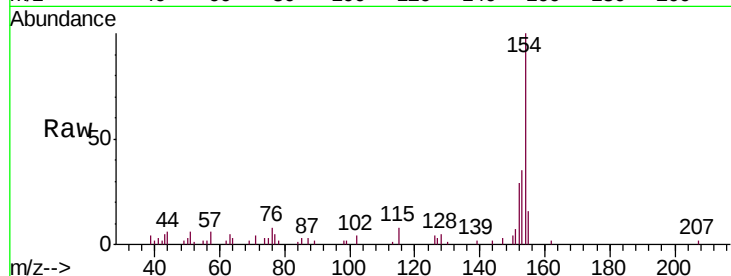
Tgt Ion:154 Resp: 17995

Ion Ratio Lower Upper

154 100

153 35.1 32.6 48.8

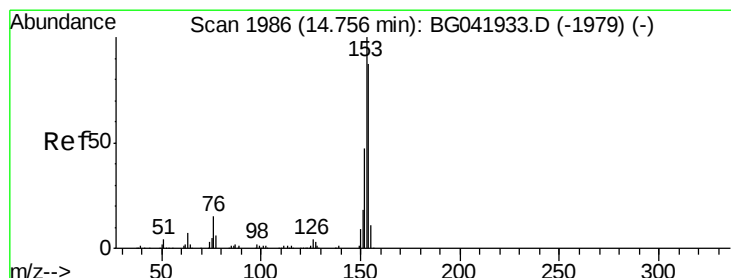
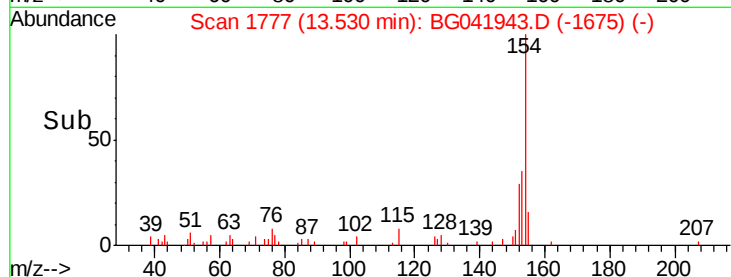
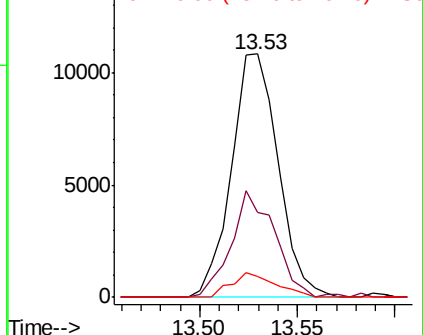
76 8.5 8.6 13.0#



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BGC



#49

Acenaphthene

Concen: 9.266 ng/ul

RT: 14.76 min Scan# 1986

Delta R.T. 0.00 min

Lab File: BG041943.D

Acq: 4 Aug 2019 15:03

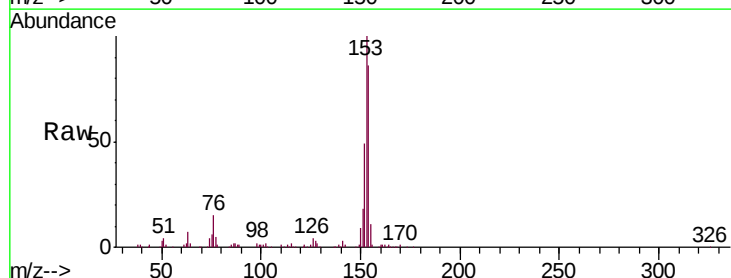
Tgt Ion:153 Resp: 142075

Ion Ratio Lower Upper

153 100

152 48.7 37.8 56.8

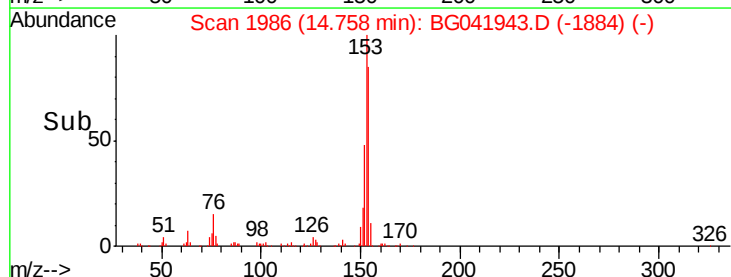
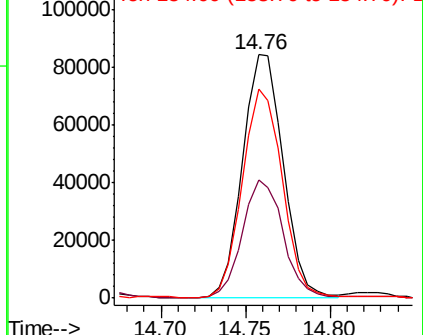
154 85.9 69.4 104.2

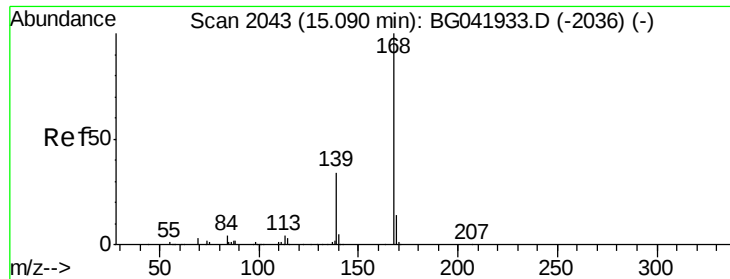


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#53

Dibenzofuran

Concen: 1.207 ng/ul

RT: 15.09 min Scan# 2043

Delta R.T. 0.00 min

Lab File: BG041943.D

Acq: 4 Aug 2019 15:03

Instrument :

BNA_G

ClientSampleId :

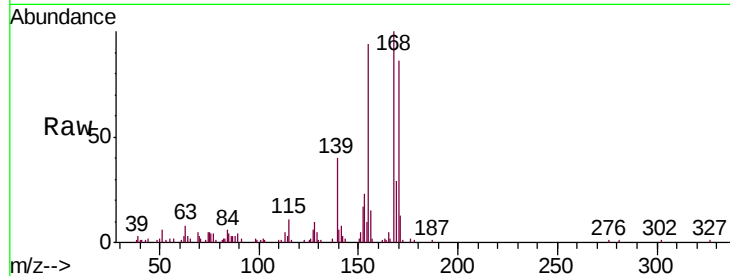
BENQ1DL

Tgt Ion:168 Resp: 27614

Ion Ratio Lower Upper

168 100

139 39.6 27.3 40.9



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

20000

15000

10000

5000

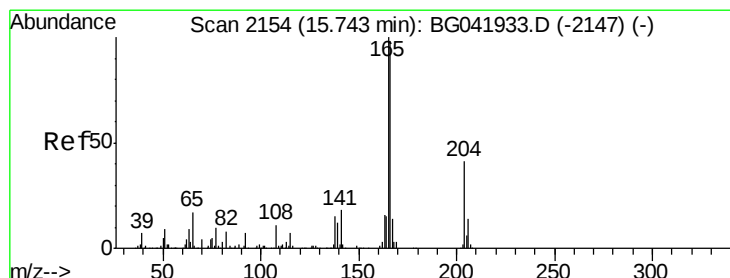
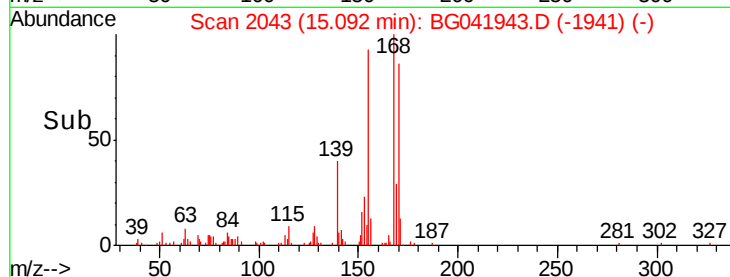
0

15.05

15.10

15.15

Time-->



#58

Fluorene

Concen: 6.541 ng/ul

RT: 15.74 min Scan# 2154

Delta R.T. 0.00 min

Lab File: BG041943.D

Acq: 4 Aug 2019 15:03

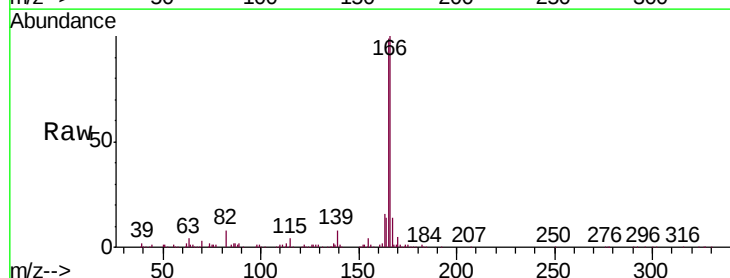
Tgt Ion:166 Resp: 120557

Ion Ratio Lower Upper

166 100

165 99.0 81.1 121.7

167 14.1 11.0 16.4



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

100000

80000

60000

40000

20000

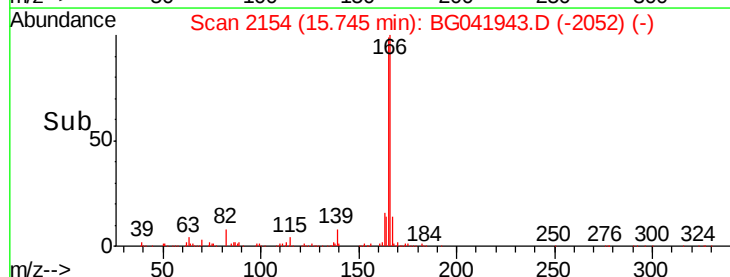
0

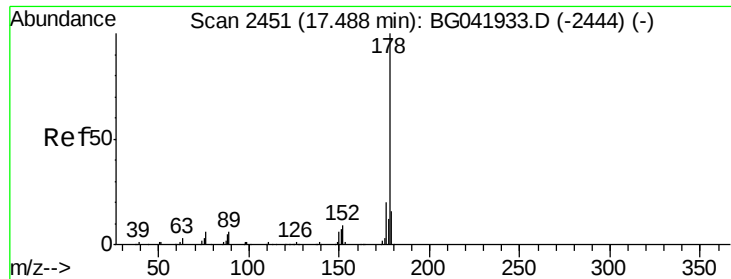
15.70

15.75

15.80

Time-->





#69

Phenanthrene

Concen: 54.120 ng/ul

RT: 17.50 min Scan# 2452

Delta R.T. 0.01 min

Lab File: BG041943.D

Acq: 4 Aug 2019 15:03

Instrument :

BNA_G

ClientSampleId :

BENQ1DL

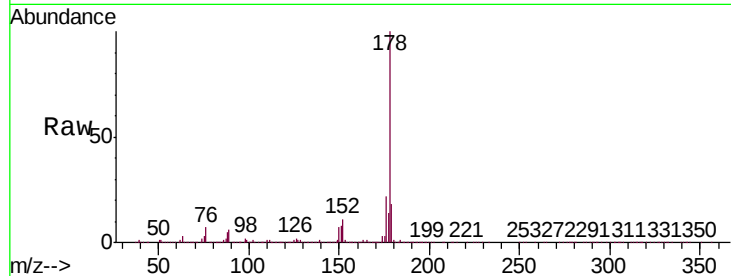
Tgt Ion:178 Resp: 1429313

Ion Ratio Lower Upper

178 100

179 18.2 12.8 19.2

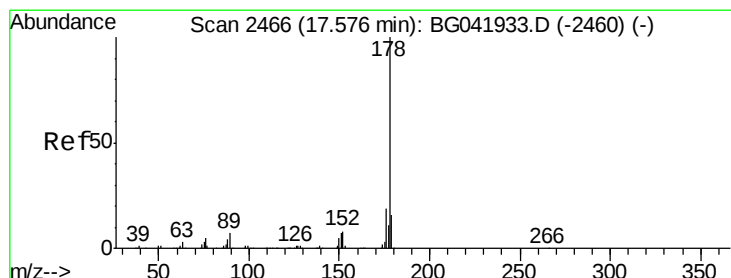
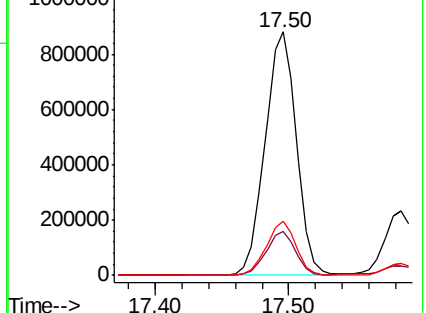
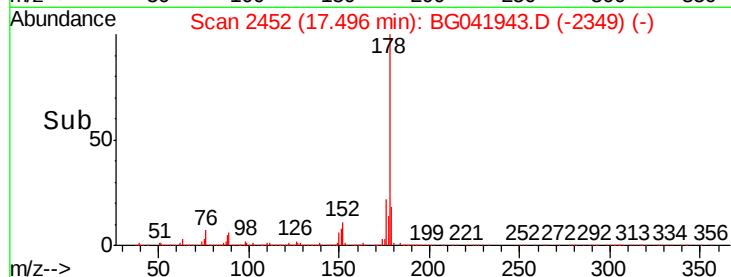
176 22.1 15.4 23.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#71

Anthracene

Concen: 13.241 ng/ul

RT: 17.58 min Scan# 2467

Delta R.T. 0.01 min

Lab File: BG041943.D

Acq: 4 Aug 2019 15:03

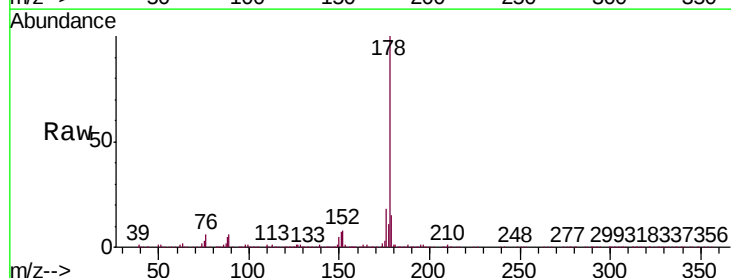
Tgt Ion:178 Resp: 354681

Ion Ratio Lower Upper

178 100

179 15.4 13.4 20.0

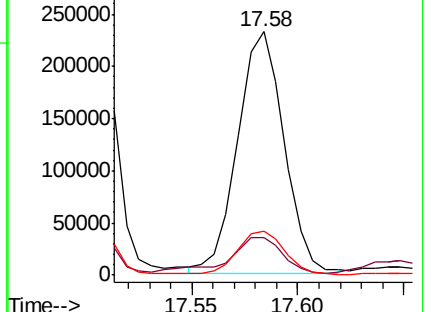
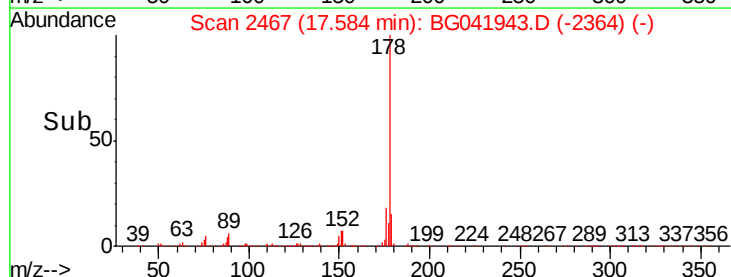
176 18.0 15.4 23.2

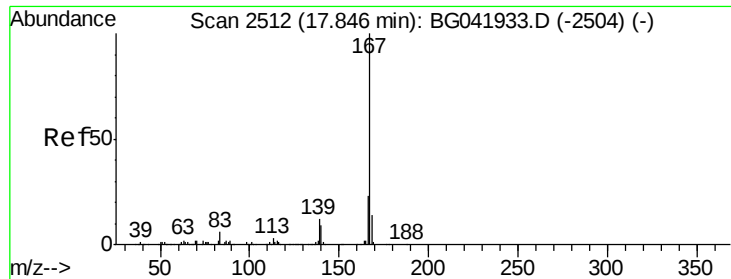


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

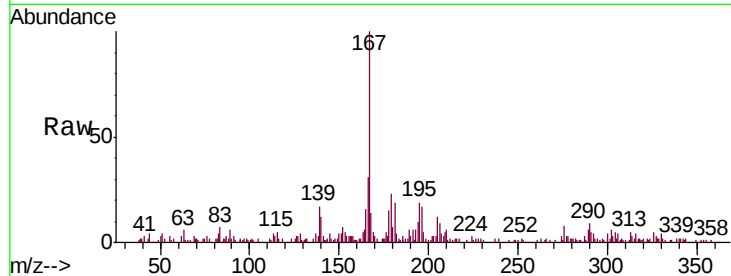




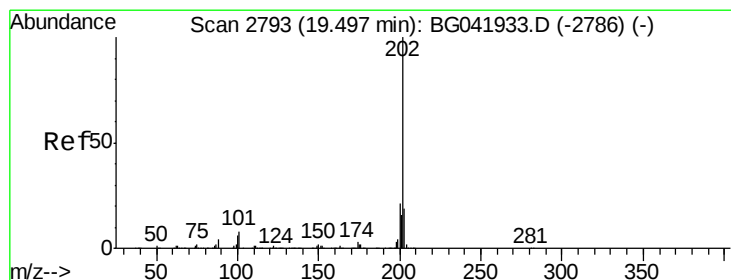
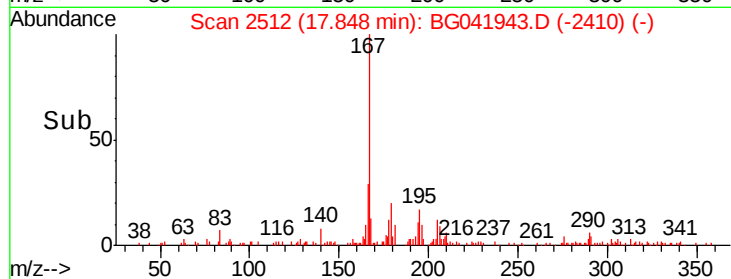
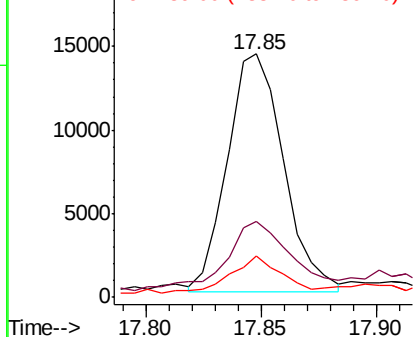
#74
 Carbazole
 Concen: 1.093 ng/ul
 RT: 17.85 min Scan# 2512
 Delta R.T. 0.00 min
 Lab File: BG041943.D
 Acq: 4 Aug 2019 15:03

Instrument :
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Tgt Ion:167 Resp: 24243
 Ion Ratio Lower Upper
 167 100
 166 31.2 18.2 27.4#
 139 17.2 9.6 14.4#

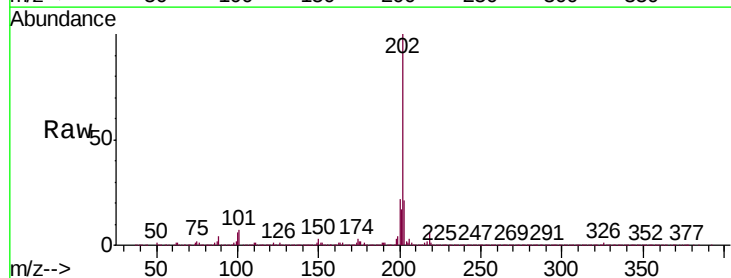


Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E

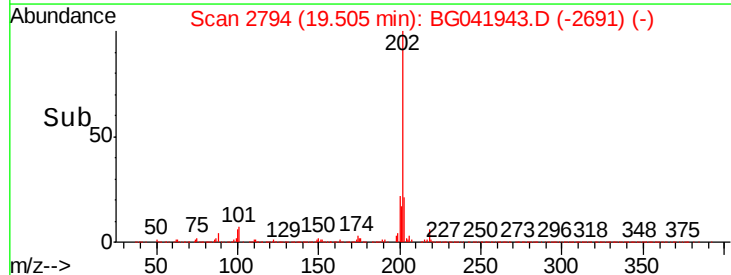
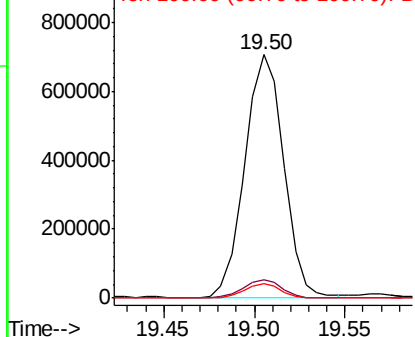


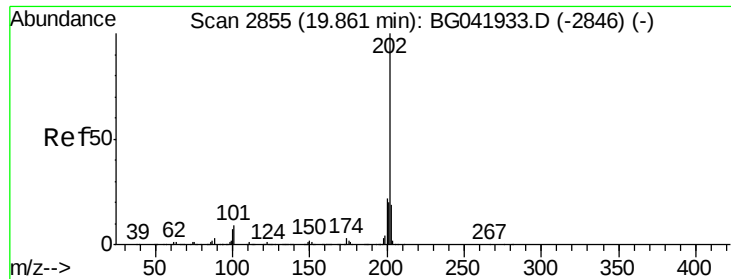
#76
 Fluoranthene
 Concen: 34.370 ng/ul
 RT: 19.50 min Scan# 2794
 Delta R.T. 0.01 min
 Lab File: BG041943.D
 Acq: 4 Aug 2019 15:03

Tgt Ion:202 Resp: 1048790
 Ion Ratio Lower Upper
 202 100
 101 7.5 6.7 10.1
 100 5.8 5.3 7.9



Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 100.00 (99.70 to 100.70): B





#79

Pyrene

Concen: 49.375 ng/ul

RT: 19.87 min Scan# 2856

Delta R.T. 0.01 min

Lab File: BG041943.D

Acq: 4 Aug 2019 15:03

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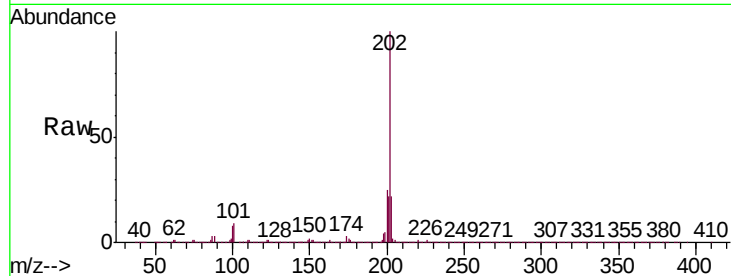
Tgt Ion:202 Resp: 1579320

Ion Ratio Lower Upper

202 100

101 9.3 7.6 11.4

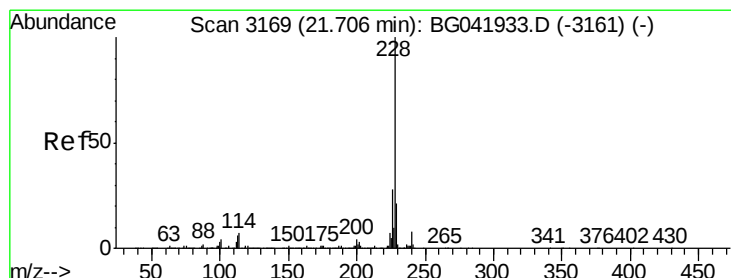
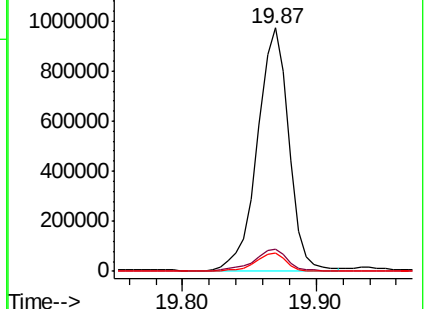
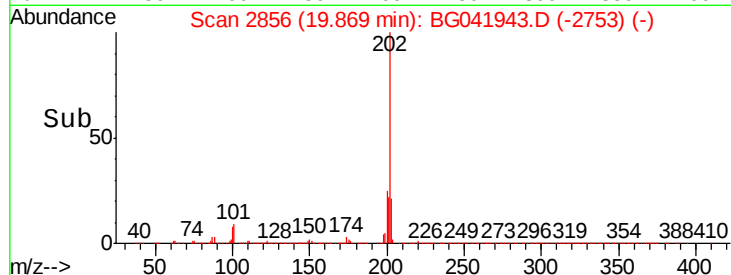
100 7.7 6.5 9.7



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#82

Benzo(a)anthracene

Concen: 26.221 ng/ul

RT: 21.72 min Scan# 3171

Delta R.T. 0.01 min

Lab File: BG041943.D

Acq: 4 Aug 2019 15:03

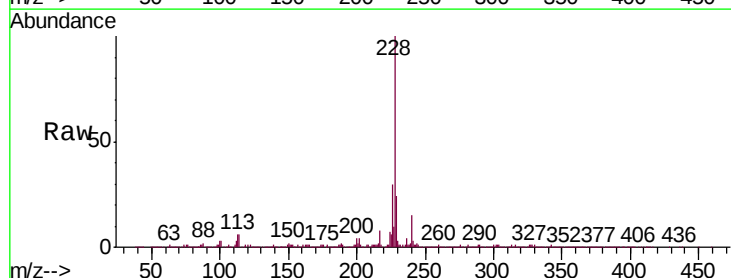
Tgt Ion:228 Resp: 864513

Ion Ratio Lower Upper

228 100

229 23.5 17.0 25.6

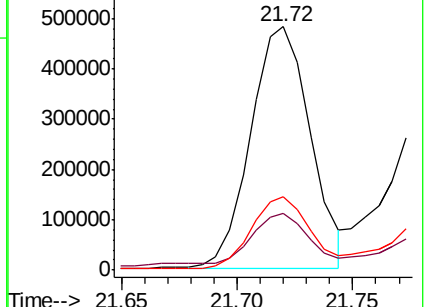
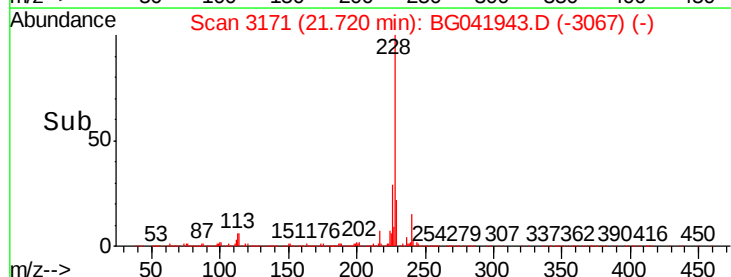
226 30.1 23.3 34.9

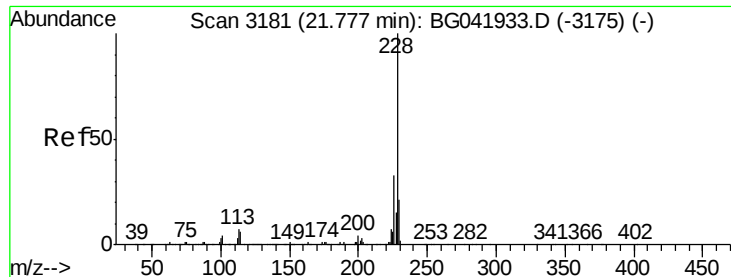


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#84

Chrysene

Concen: 29.358 ng/ul

RT: 21.78 min Scan# 3182

Delta R.T. 0.01 min

Lab File: BG041943.D

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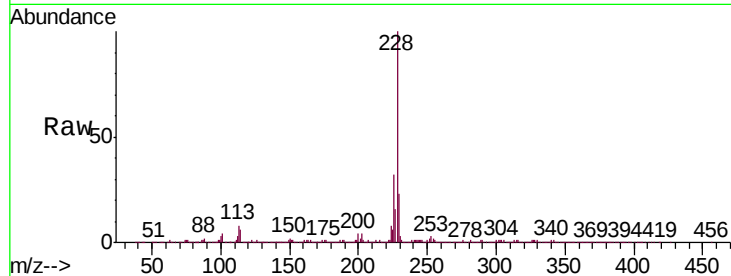
Tgt Ion:228 Resp: 903421

Ion Ratio Lower Upper

228 100

226 32.4 25.7 38.5

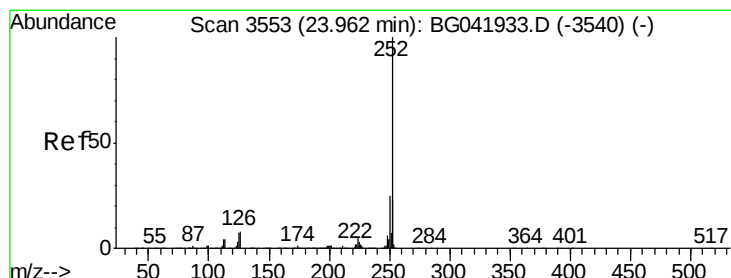
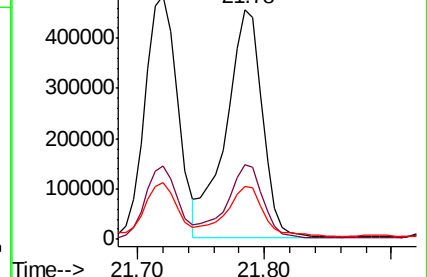
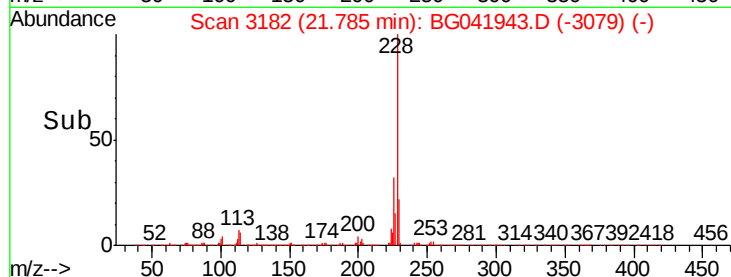
229 23.0 16.6 24.8



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



#87

Benzo(b)fluoranthene

Concen: 20.103 ng/ul

RT: 23.99 min Scan# 3557

Delta R.T. 0.03 min

Lab File: BG041943.D

Acq: 4 Aug 2019 15:03

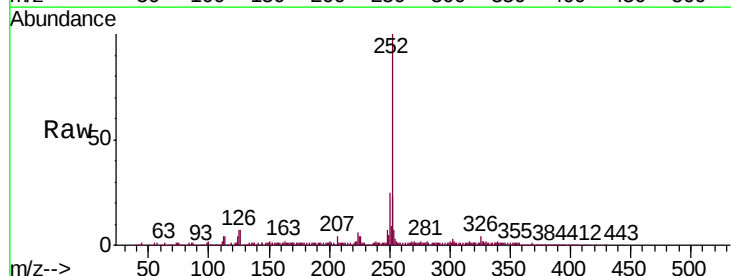
Tgt Ion:252 Resp: 655287

Ion Ratio Lower Upper

252 100

253 22.8 18.4 27.6

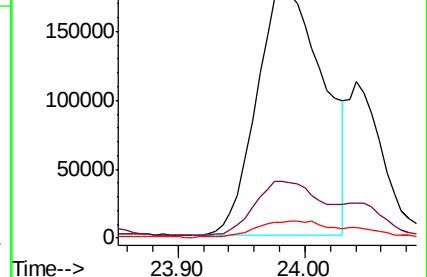
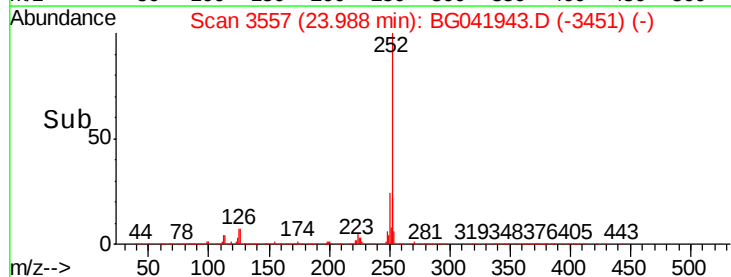
125 7.2 5.8 8.8

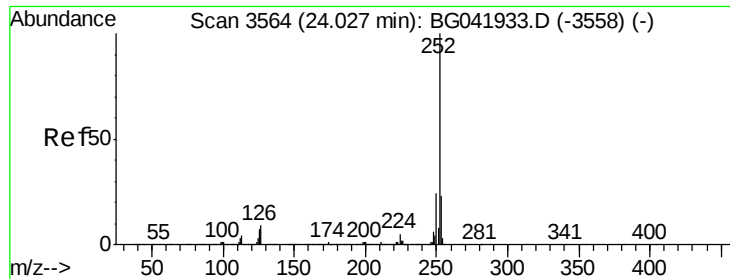


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 20.908 ng/u1

RT: 23.99 min Scan# 3557

Delta R.T. -0.04 min

Lab File: BG041943.D

Acq: 4 Aug 2019 15:03

Instrument :

BNA_G

ClientSampleId :

BENQ1DL

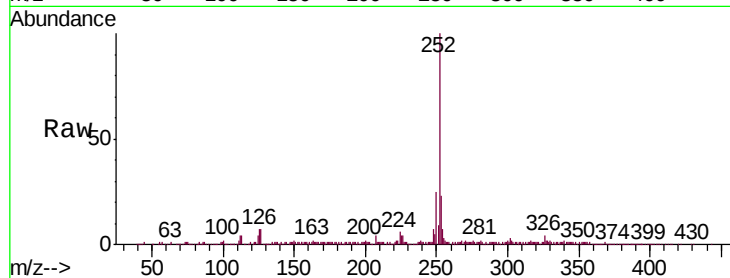
Tgt Ion:252 Resp: 655287

Ion Ratio Lower Upper

252 100

253 22.8 18.3 27.5

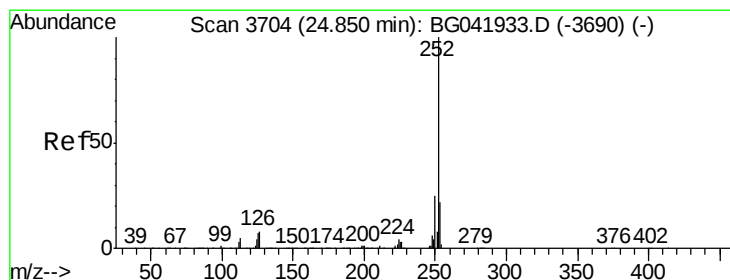
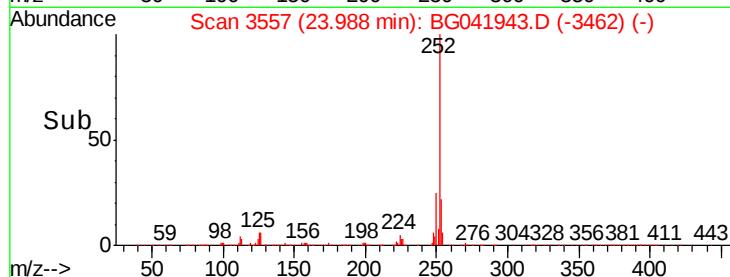
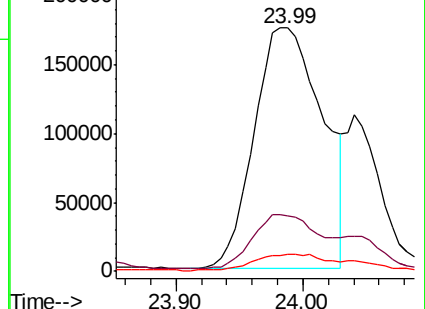
125 7.2 5.5 8.3



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Benzo(a)pyrene

Concen: 19.536 ng/u1

RT: 24.86 min Scan# 3706

Delta R.T. 0.01 min

Lab File: BG041943.D

Acq: 4 Aug 2019 15:03

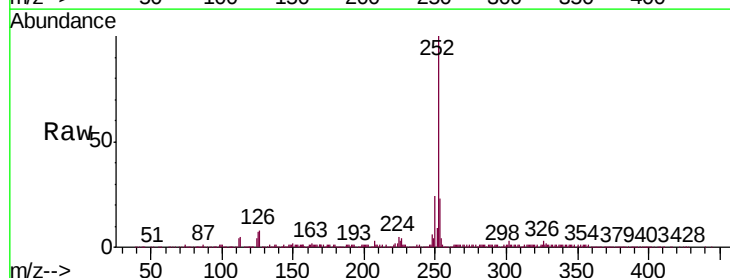
Tgt Ion:252 Resp: 606824

Ion Ratio Lower Upper

252 100

253 23.2 18.3 27.5

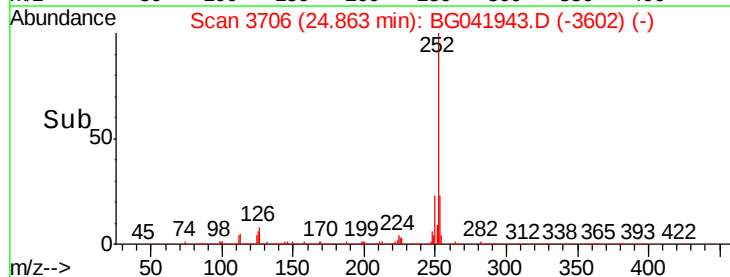
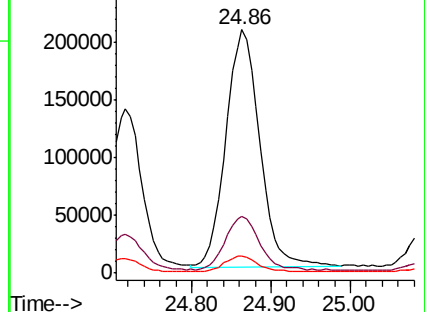
125 6.8 6.5 9.7

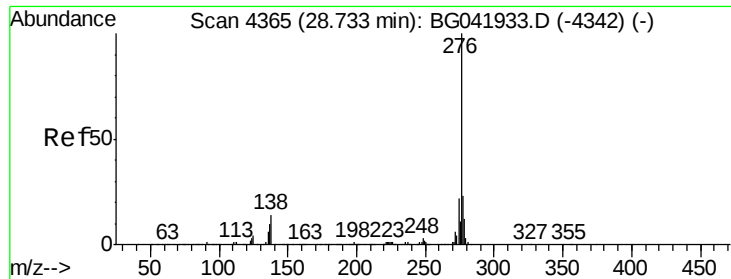


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Indeno(1,2,3-cd)pyrene

Concen: 4.914 ng/ul

RT: 28.76 min Scan# 4370

Delta R.T. 0.03 min

Lab File: BG041943.D

Acq: 4 Aug 2019 15:03

Instrument :

BNA_G

ClientSampleId :

BENQ1DL

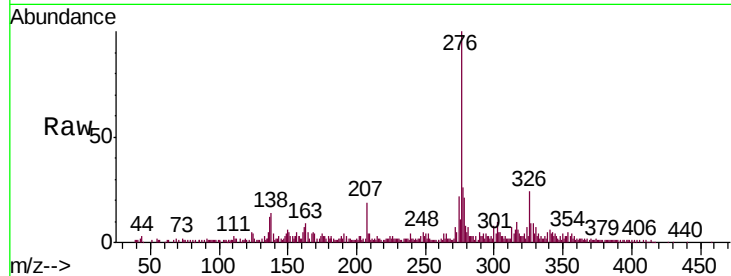
Tgt Ion:276 Resp: 178019

Ion Ratio Lower Upper

276 100

138 14.1 12.0 18.0

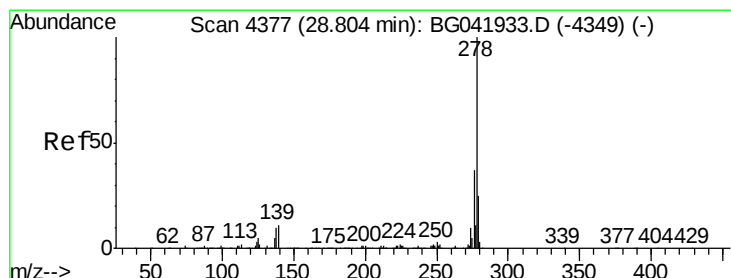
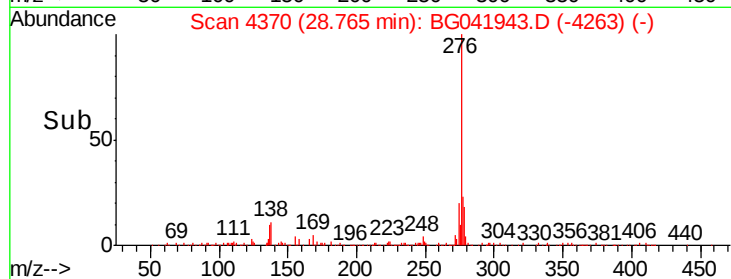
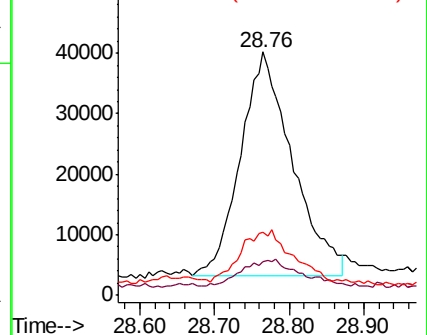
277 26.0 19.2 28.8



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



#92

Dibenzo(a,h)anthracene

Concen: 1.345 ng/ul

RT: 28.81 min Scan# 4378

Delta R.T. 0.01 min

Lab File: BG041943.D

Acq: 4 Aug 2019 15:03

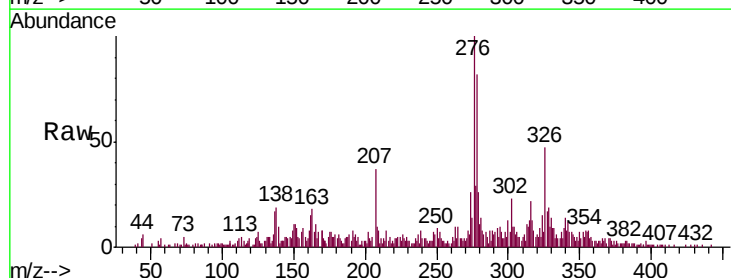
Tgt Ion:278 Resp: 39738

Ion Ratio Lower Upper

278 100

139 11.8 9.4 14.0

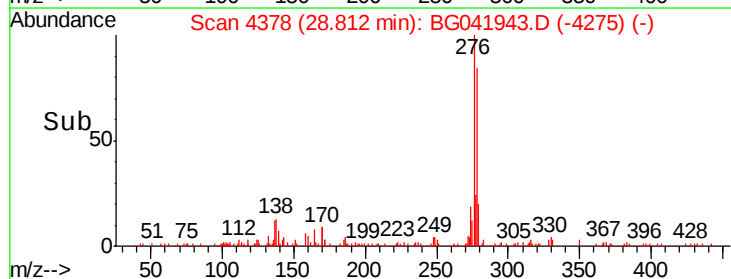
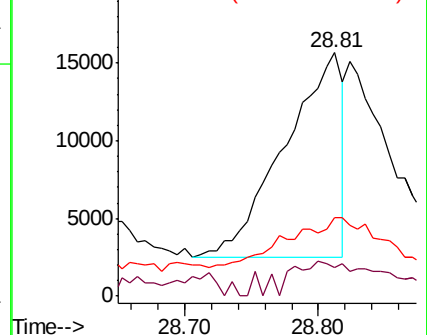
279 32.5 19.2 28.8#

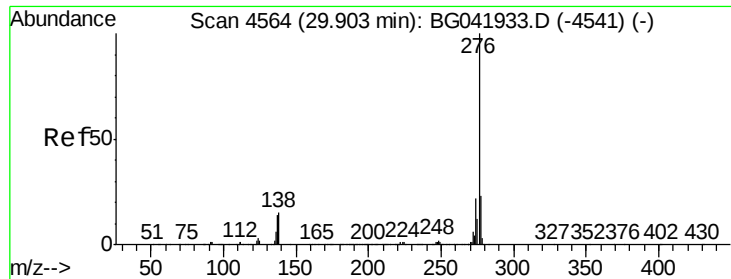


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#93

Benzo(g,h,i)perylene

Concen: 5.553 ng/ul

RT: 29.94 min Scan# 4570

Delta R.T. 0.04 min

Lab File: BG041943.D

Acq: 4 Aug 2019 15:03

Instrument :

BNA_G

ClientSampleId :

BENQ1DL

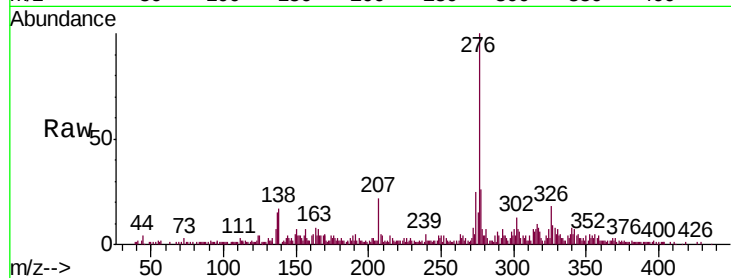
Tgt Ion: 276 Resp: 167982

Ion Ratio Lower Upper

276 100

138 17.4 12.6 18.8

277 25.6 19.2 28.8



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

