

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG071320\
 Data File : BG046019.D
 Acq On : 13 Jul 2020 11:30
 Operator : CG/JU
 Sample : L3217-17RE
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 E3-41-NHLRE

Quant Time: Jul 13 12:12:13 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG070620.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 13 10:58:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.02	152	185622	20.00	ng	0.01
21) Naphthalene-d8	10.81	136	798779	20.00	ng	0.00
39) Acenaphthene-d10	14.63	164	486916	20.00	ng	0.00
64) Phenanthrene-d10	17.37	188	928480	20.00	ng	0.00
76) Chrysene-d12	21.63	240	770038	20.00	ng	0.00
86) Perylene-d12	24.78	264	810806	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.73	112	47130	4.12	ng	0.14
7) Phenol-d6	7.41	99	79322	4.81	ng	0.25
23) Nitrobenzene-d5	9.16	82	53688	3.87	ng	0.00
42) 2,4,6-Tribromophenol	16.11	330	21339	4.72	ng	0.00
45) 2-Fluorobiphenyl	13.25	172	123353	3.95	ng	0.00
79) Terphenyl-d14	19.99	244	158425	4.58	ng	0.00

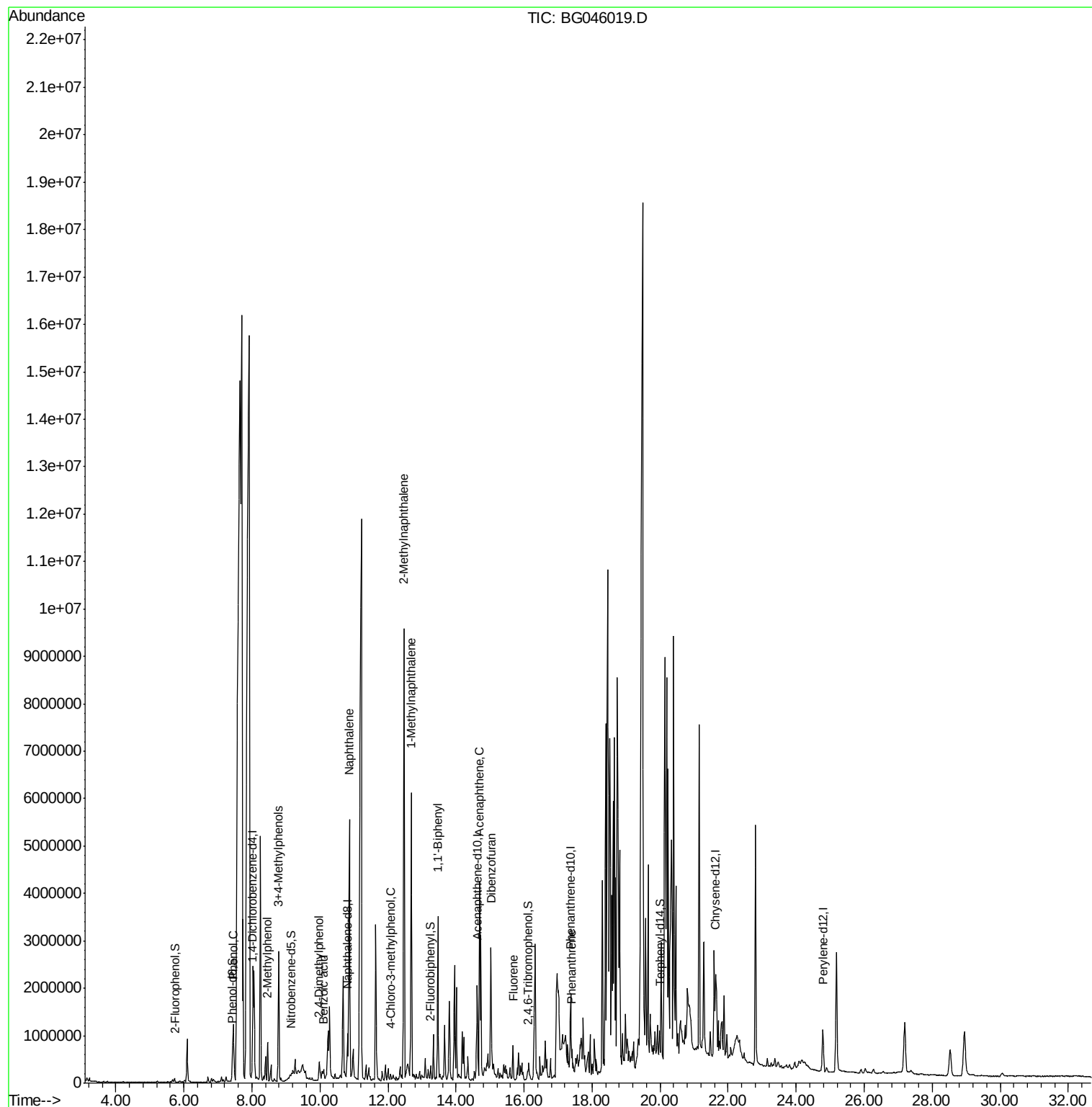
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	7.45	94	1022192	61.835	ng	98
17) 2-Methylphenol	8.46	107	263762	21.264	ng	96
20) 3+4-Methylphenols	8.79	107	1218220	72.062	ng	93
27) 2,4-Dimethylphenol	9.98	122	162807	13.501	ng	95
31) Naphthalene	10.86	128	3860466	90.153	ng	# 86
32) Benzoic acid	10.12	122	77112	15.558	ng	93
36) 4-Chloro-3-methylphenol	12.08	107	43657	3.071	ng	97
37) 2-Methylnaphthalene	12.47	142	4287146	140.840	ng	# 86
38) 1-Methylnaphthalene	12.68	142	2677081	93.189	ng	# 97
46) 1,1'-Biphenyl	13.46	154	1652359	45.111	ng	96
52) Acenaphthene	14.69	154	1509812	51.334	ng	98
55) Dibenzofuran	15.03	168	1410141	32.708	ng	98
58) Fluorene	15.67	166	313977	8.878	ng	98
71) Phenanthrene	17.41	178	298196	6.075	ng	98

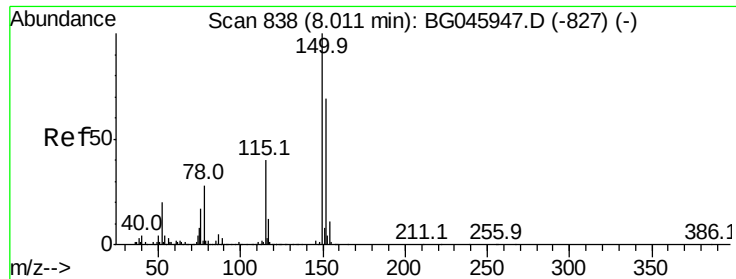
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.02 min Scan# 839

Delta R.T. 0.01 min

Lab File: BG046019.D

Acq: 13 Jul 2020 11:30

Instrument :

BNA_G

ClientSampleId :

E3-41-NHLRE

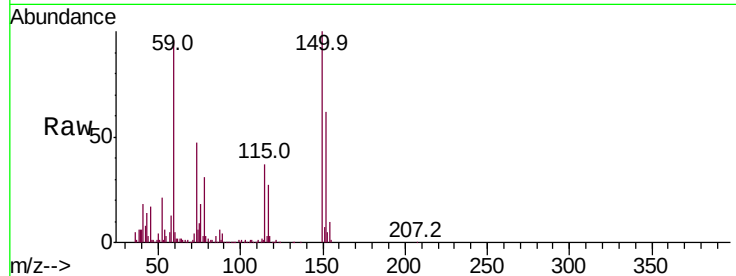
Tot Ion:152 Resp: 185622

Ion Ratio Lower Upper

152 100

150 160.5 116.7 175.1

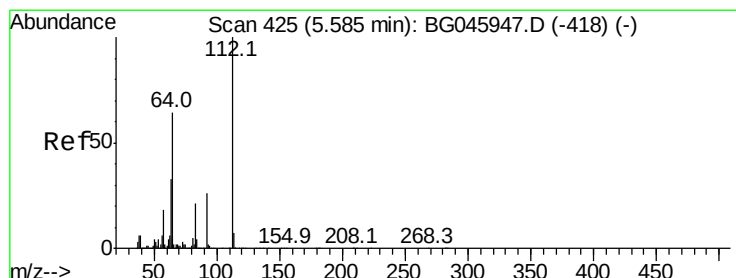
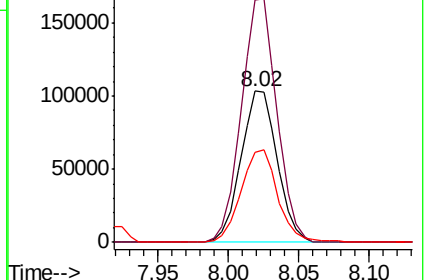
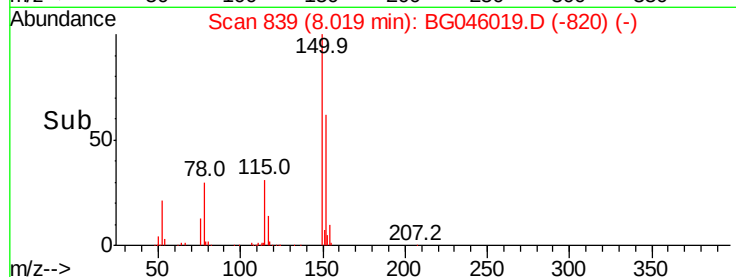
115 59.8 47.4 71.0



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: 4.117 ng

RT: 5.73 min Scan# 449

Delta R.T. 0.14 min

Lab File: BG046019.D

Acq: 13 Jul 2020 11:30

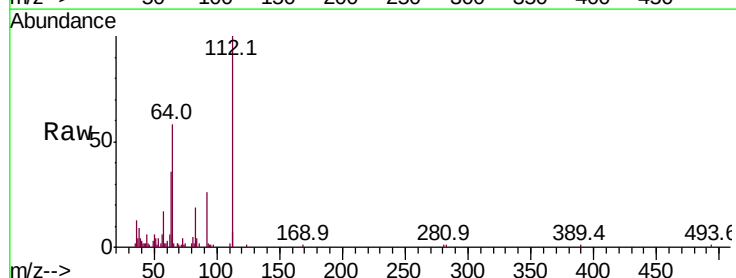
Tgt Ion:112 Resp: 47130

Ion Ratio Lower Upper

112 100

64 58.2 51.4 77.2

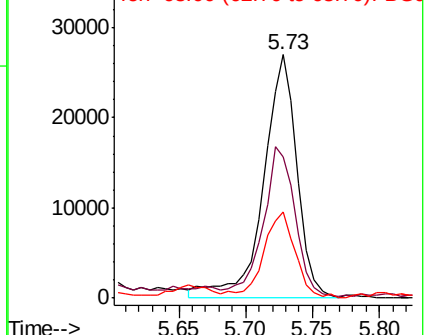
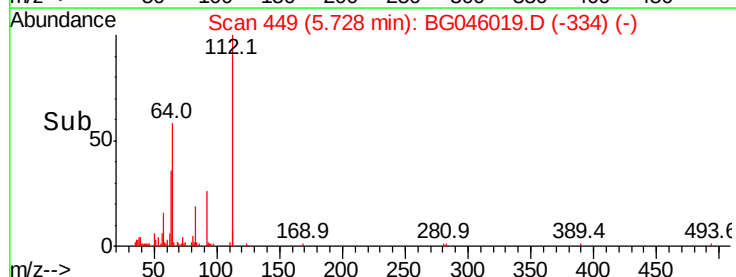
63 35.6 26.6 40.0

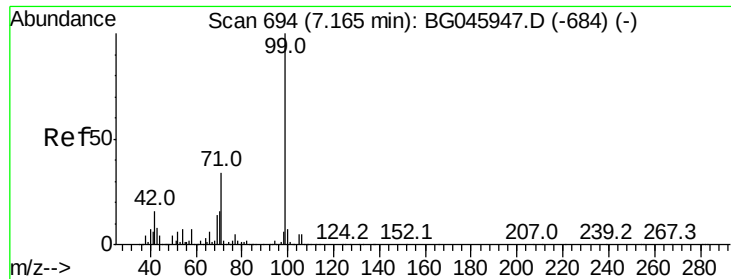


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG0

Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 4.813 ng

RT: 7.41 min Scan# 736

Delta R.T. 0.25 min

Lab File: BG046019.D

Acq: 13 Jul 2020 11:30

Instrument :

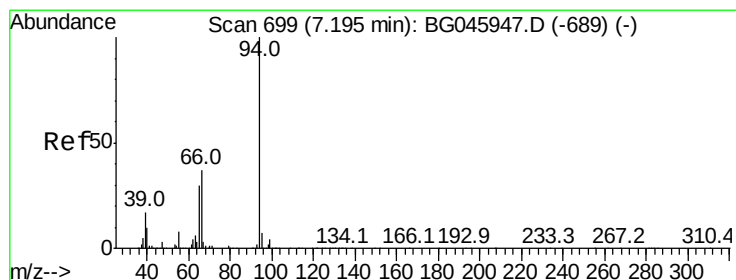
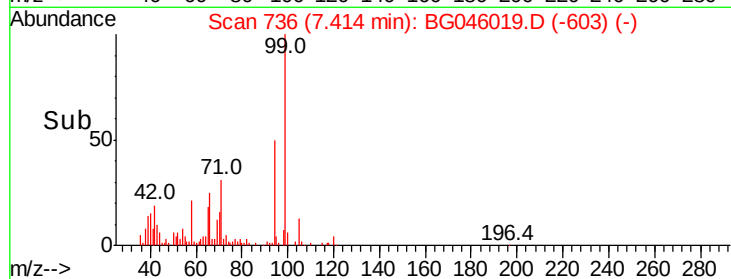
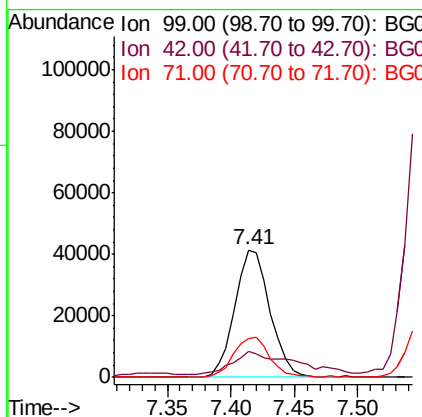
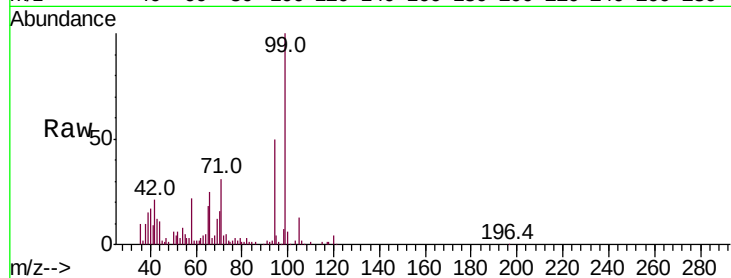
BNA_G

ClientSampleId :

E3-41-NHLRE

Tot Ion: 99 Resp: 79322

Ion	Ratio	Lower	Upper
99	100		
42	20.7	13.0	19.4#
71	30.9	27.5	41.3



#10

Phenol

Concen: 61.835 ng

RT: 7.45 min Scan# 742

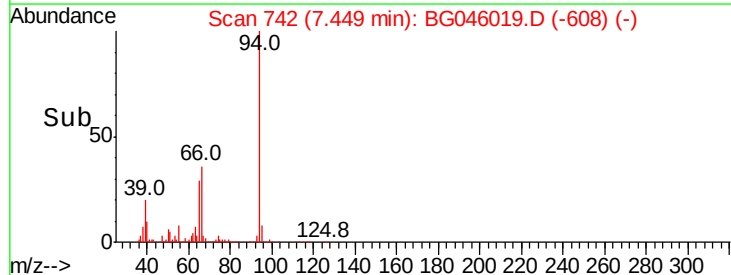
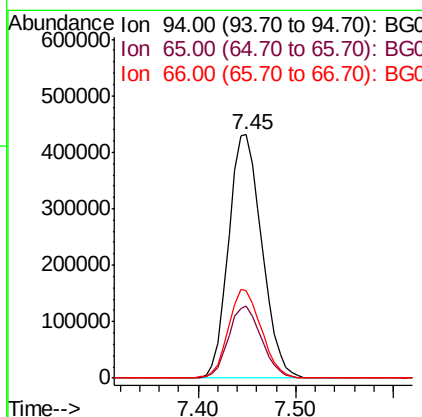
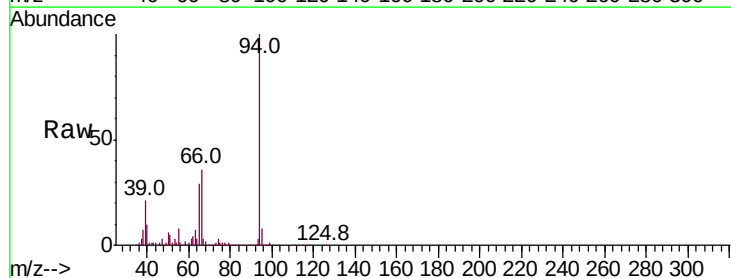
Delta R.T. 0.25 min

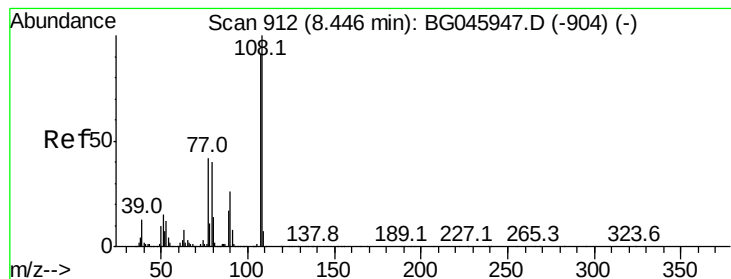
Lab File: BG046019.D

Acq: 13 Jul 2020 11:30

Tgt Ion: 94 Resp: 1022192

Ion	Ratio	Lower	Upper
94	100		
65	29.4	10.6	50.6
66	36.1	17.1	57.1





#17

2-Methylphenol

Concen: 21.264 ng

RT: 8.46 min Scan# 914

Delta R.T. 0.02 min

Lab File: BG046019.D

Acq: 13 Jul 2020 11:30

Instrument :

BNA_G

ClientSampleId :

E3-41-NHLRE

Tot Ion:107 Resp: 263762

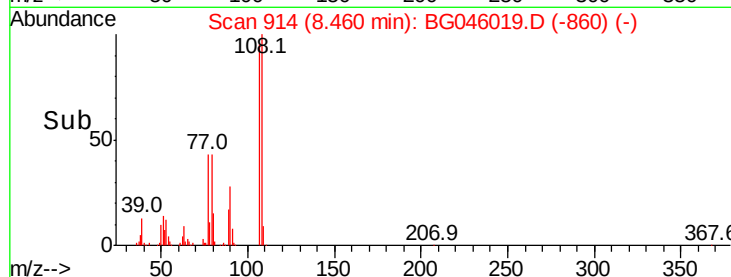
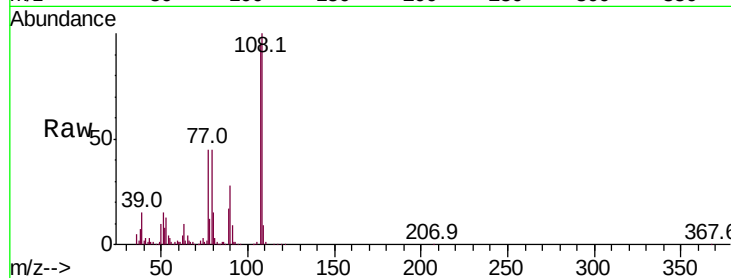
Ion Ratio Lower Upper

107 100

108 105.5 88.2 132.4

77 47.0 37.0 55.4

79 47.0 35.4 53.0



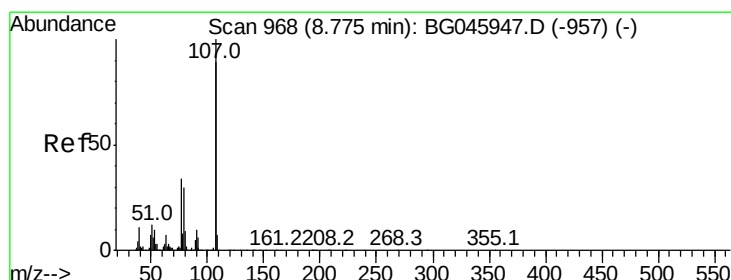
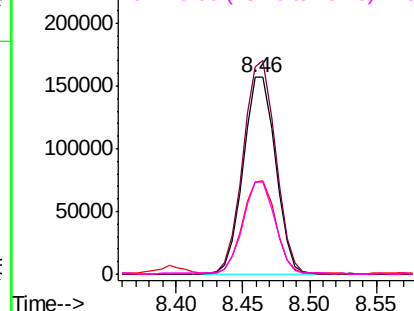
Abundance

Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BGC

Ion 79.00 (78.70 to 79.70): BGC



#20

3+4-Methylphenols

Concen: 72.062 ng

RT: 8.79 min Scan# 970

Delta R.T. 0.02 min

Lab File: BG046019.D

Acq: 13 Jul 2020 11:30

Tgt Ion:107 Resp: 1218220

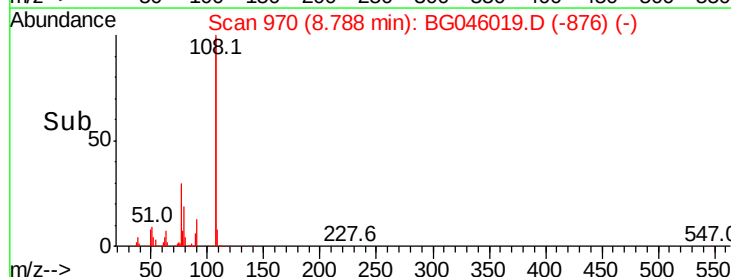
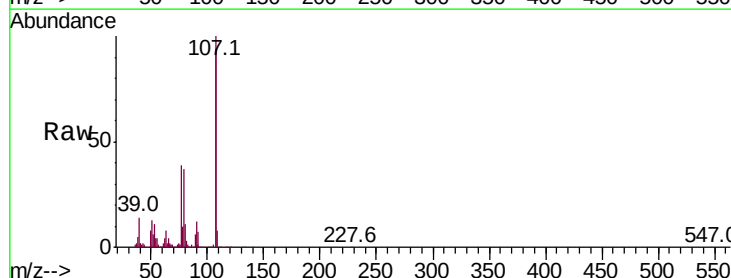
Ion Ratio Lower Upper

107 100

108 93.6 68.7 108.7

77 39.3 14.6 54.6

79 36.8 10.6 50.6



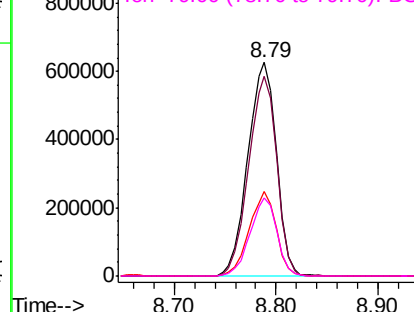
Abundance

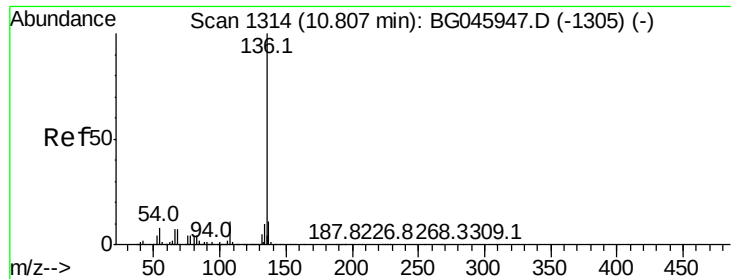
Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BGC

Ion 79.00 (78.70 to 79.70): BGC

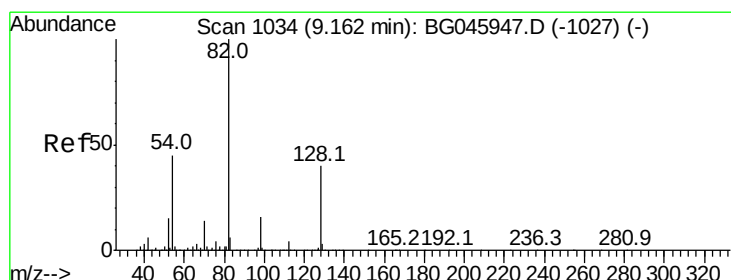
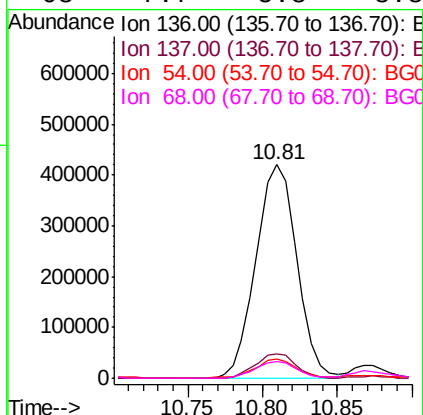
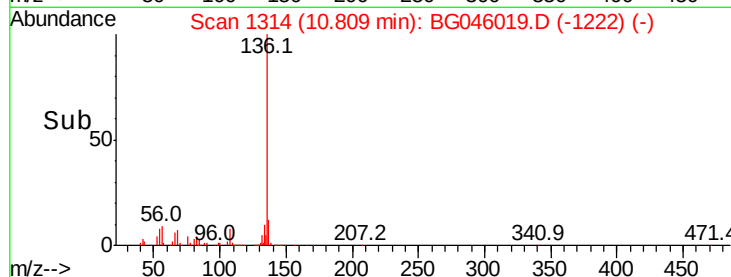
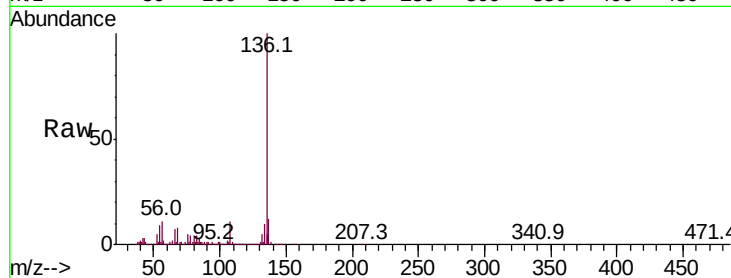




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.81 min Scan# 1314
Delta R.T. 0.01 min
Lab File: BG046019.D
Acq: 13 Jul 2020 11:30

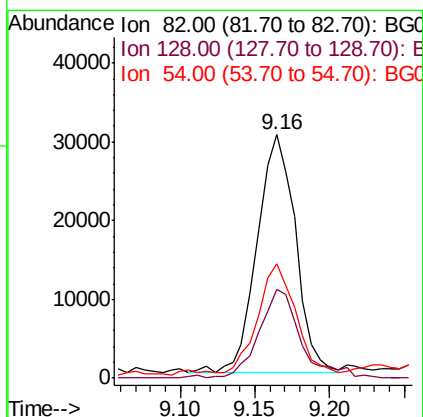
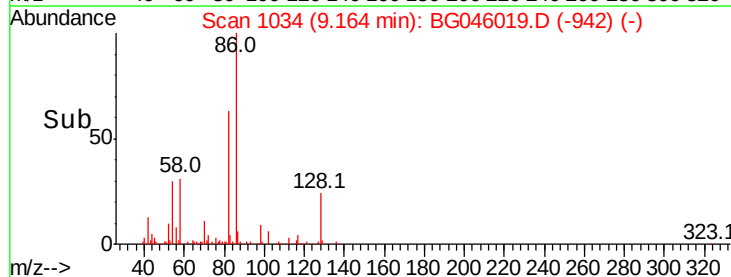
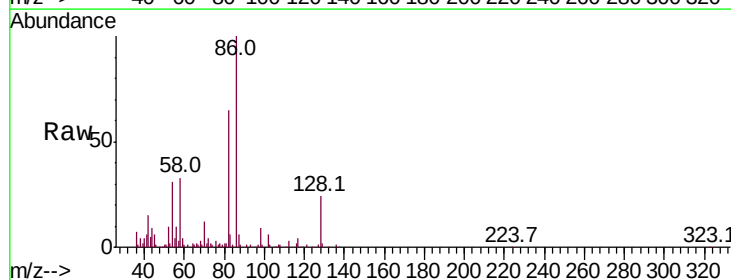
Instrument :
BNA_G
ClientSampleId :
E3-41-NHLRE

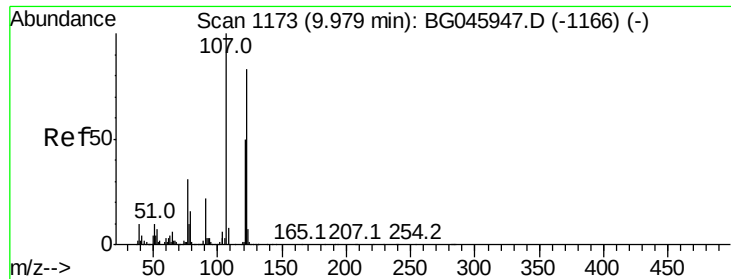
Tot Ion:	136	Resp:	798779
Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.2	13.8
54	8.9	6.2	9.4
68	7.7	5.8	8.8



#23
Nitrobenzene-d5
Concen: 3.869 ng
RT: 9.16 min Scan# 1034
Delta R.T. 0.01 min
Lab File: BG046019.D
Acq: 13 Jul 2020 11:30

Tgt Ion:	82	Resp:	53688
Ion	Ratio	Lower	Upper
82	100		
128	36.4	32.2	48.4
54	47.1	35.8	53.6





#27

2,4-Dimethylphenol

Concen: 13.501 ng

RT: 9.98 min Scan# 1172

Delta R.T. 0.00 min

Lab File: BG046019.D

Acq: 13 Jul 2020 11:30

Instrument :

BNA_G

ClientSampleId :

E3-41-NHLRE

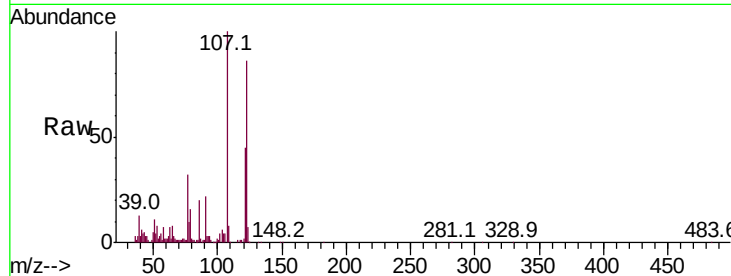
Tot Ion:122 Resp: 162807

Ion Ratio Lower Upper

122 100

107 116.1 95.6 143.4

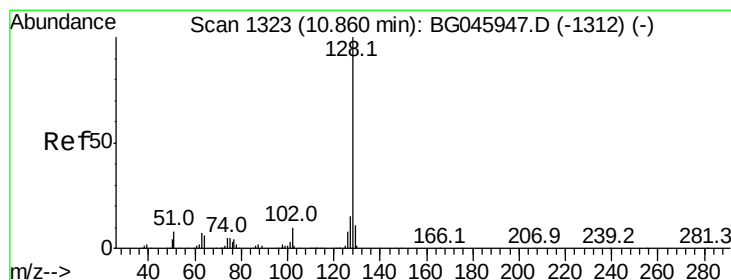
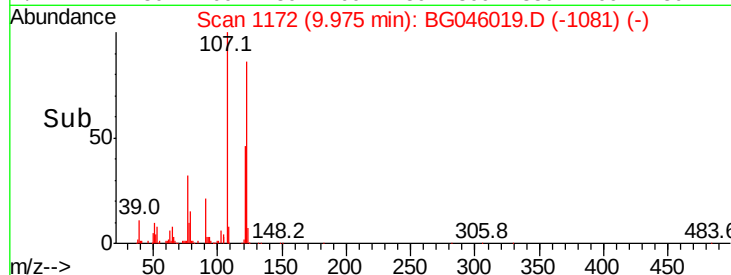
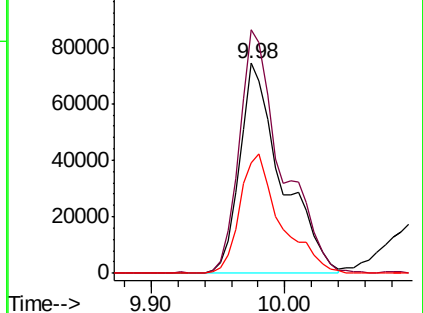
121 52.8 47.7 71.5



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E



#31

Naphthalene

Concen: 90.153 ng

RT: 10.86 min Scan# 1323

Delta R.T. 0.01 min

Lab File: BG046019.D

Acq: 13 Jul 2020 11:30

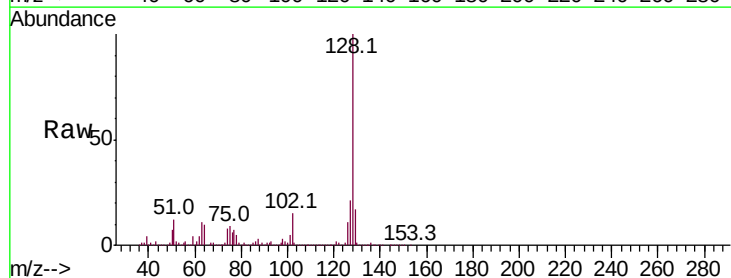
Tgt Ion:128 Resp: 3860466

Ion Ratio Lower Upper

128 100

129 16.7 9.2 13.8#

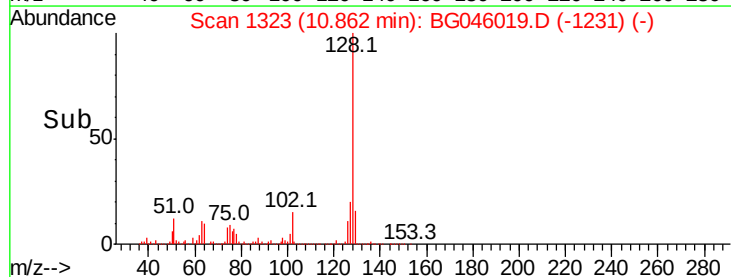
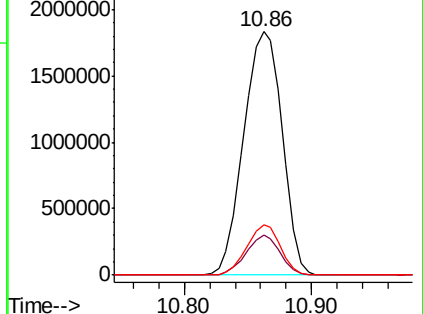
127 20.6 11.8 17.6#

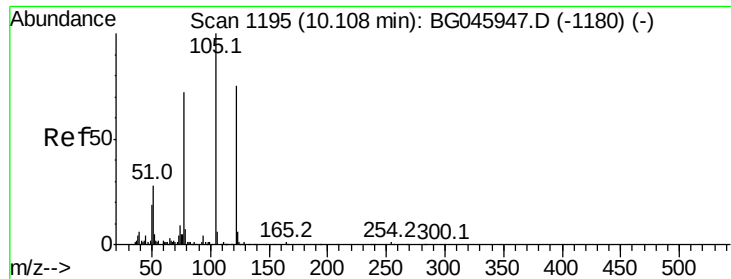


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#32

Benzoic acid

Concen: 15.558 ng

RT: 10.12 min Scan# 1196

Delta R.T. 0.01 min

Lab File: BG046019.D

Acq: 13 Jul 2020 11:30

Instrument :

BNA_G

ClientSampleId :

E3-41-NHLRE

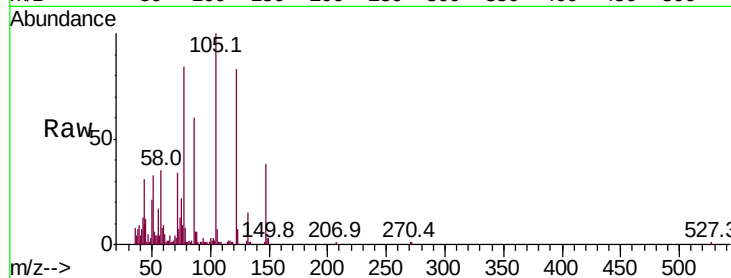
Tot Ion:122 Resp: 77112

Ion Ratio Lower Upper

122 100

105 119.9 110.8 150.8

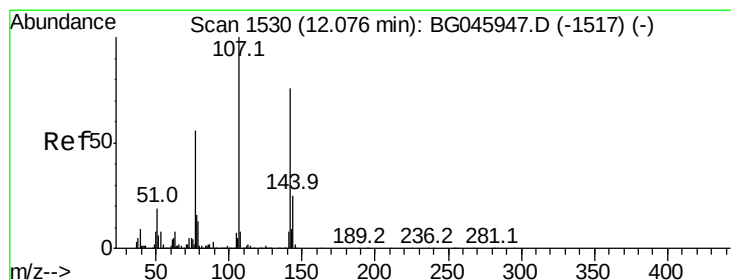
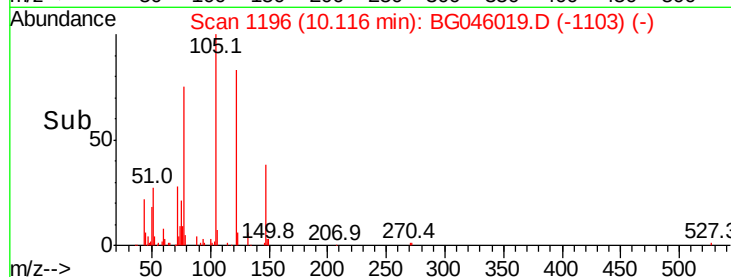
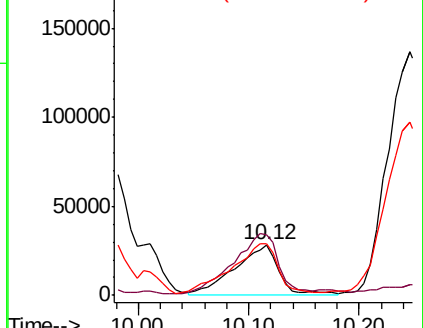
77 100.6 76.4 116.4



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BGC



#36

4-Chloro-3-methylphenol

Concen: 3.071 ng

RT: 12.08 min Scan# 1530

Delta R.T. 0.00 min

Lab File: BG046019.D

Acq: 13 Jul 2020 11:30

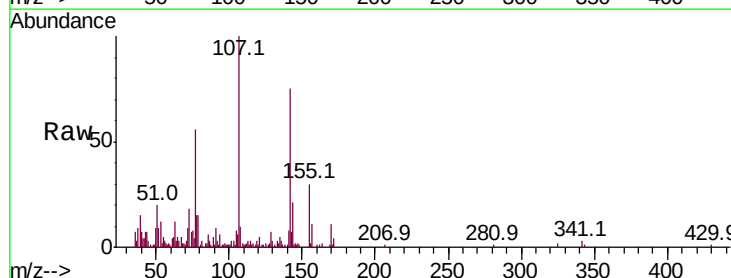
Tgt Ion:107 Resp: 43657

Ion Ratio Lower Upper

107 100

144 20.9 20.0 30.0

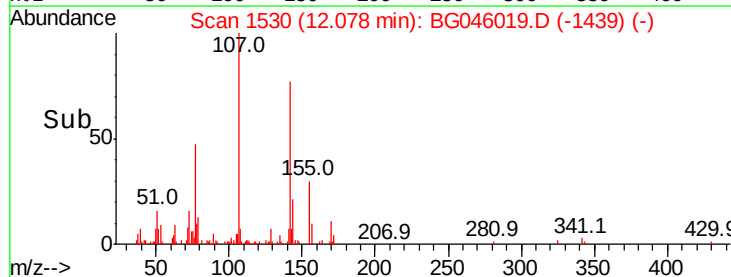
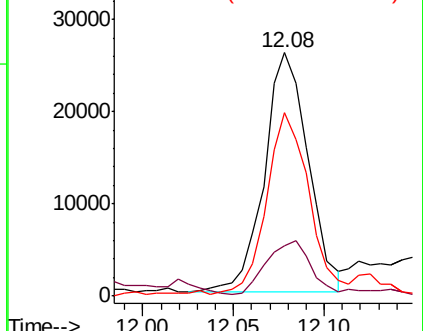
142 75.3 61.1 91.7

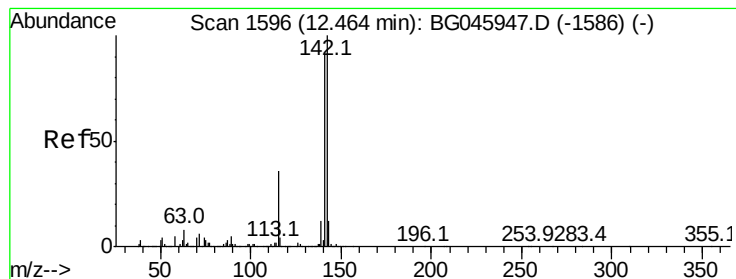


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E





#37

2-Methylnaphthalene

Concen: 140.840 ng

RT: 12.47 min Scan# 1597

Delta R.T. 0.01 min

Lab File: BG046019.D

Acq: 13 Jul 2020 11:30

Instrument :

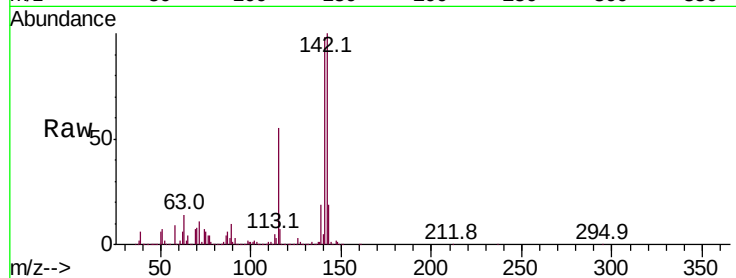
BNA_G

ClientSampleId :

E3-41-NHLRE

Tot Ion:142 Resp: 4287146

Ion	Ratio	Lower	Upper
142	100		
141	98.1	73.0	109.6
115	54.8	28.8	43.2

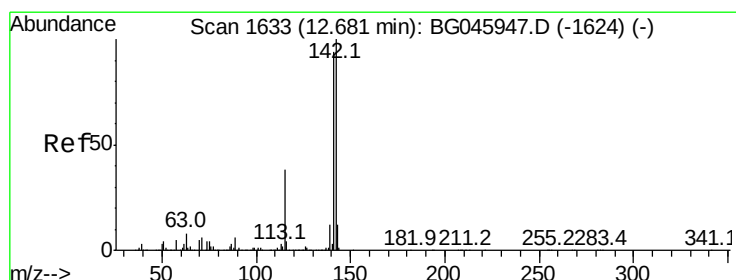
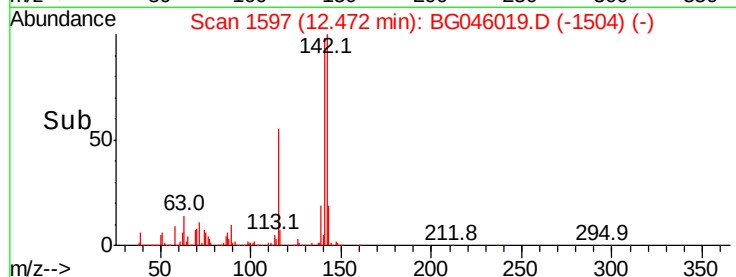
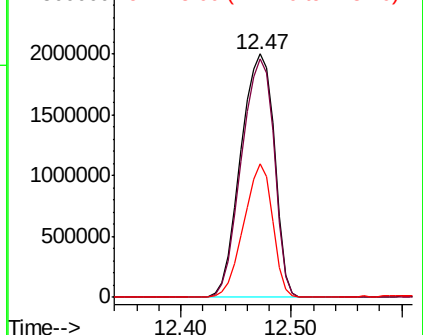


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

1-Methylnaphthalene

Concen: 93.189 ng

RT: 12.68 min Scan# 1633

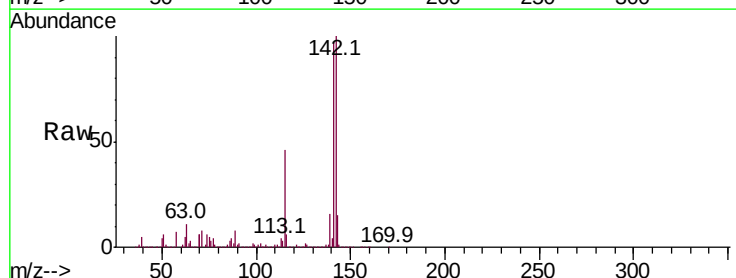
Delta R.T. 0.01 min

Lab File: BG046019.D

Acq: 13 Jul 2020 11:30

Tgt Ion:142 Resp: 2677081

Ion	Ratio	Lower	Upper
142	100		
141	97.3	75.2	112.8
116	5.5	3.1	4.7

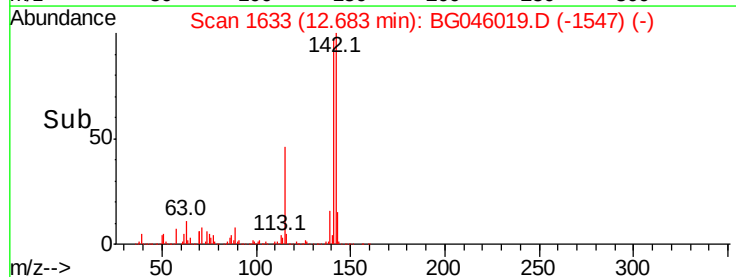
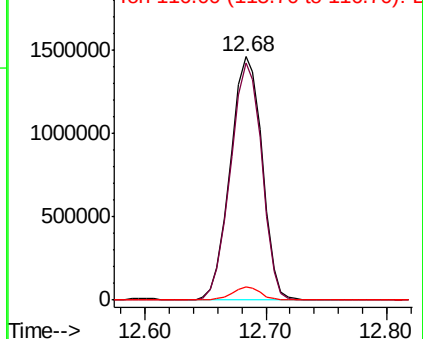


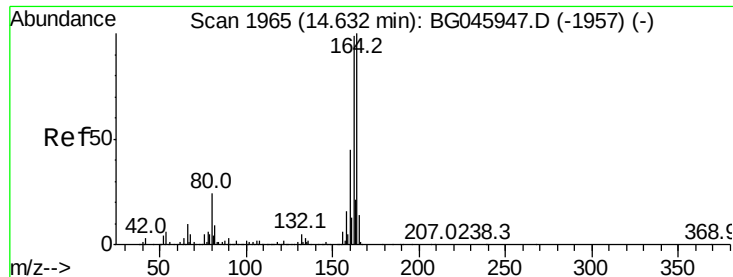
Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.63 min Scan# 1964

Delta R.T. 0.00 min

Lab File: BG046019.D

Acq: 13 Jul 2020 11:30

Instrument :

BNA_G

ClientSampleId :

E3-41-NHLRE

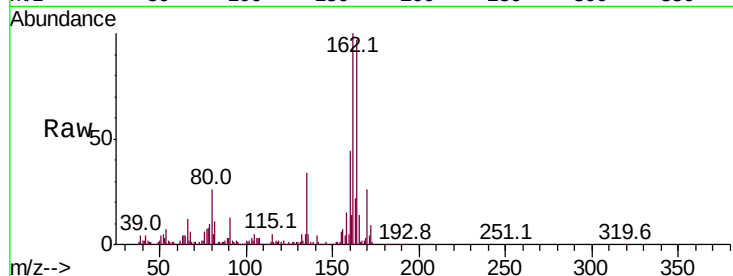
Tot Ion:164 Resp: 486916

Ion Ratio Lower Upper

164 100

162 103.0 79.3 118.9

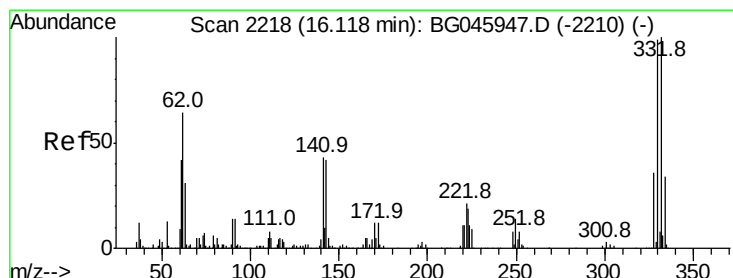
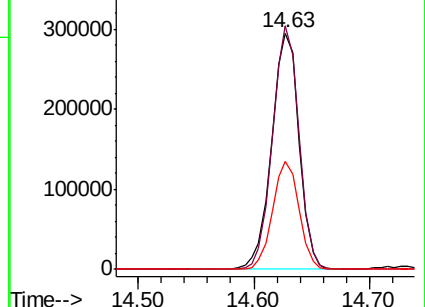
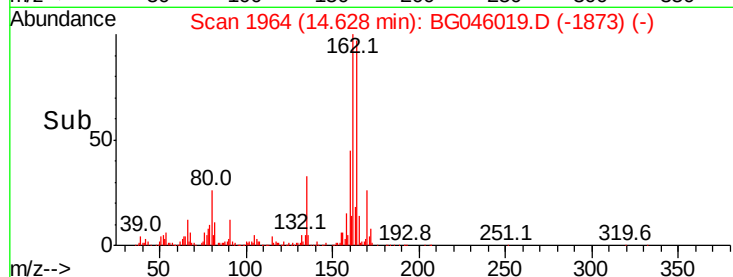
160 45.8 35.7 53.5



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: 4.722 ng

RT: 16.11 min Scan# 2216

Delta R.T. -0.00 min

Lab File: BG046019.D

Acq: 13 Jul 2020 11:30

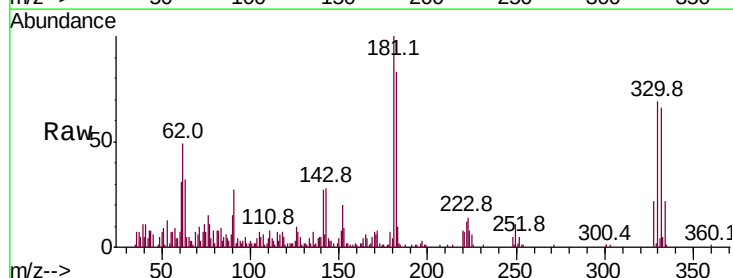
Tgt Ion:330 Resp: 21339

Ion Ratio Lower Upper

330 100

332 97.2 78.3 117.5

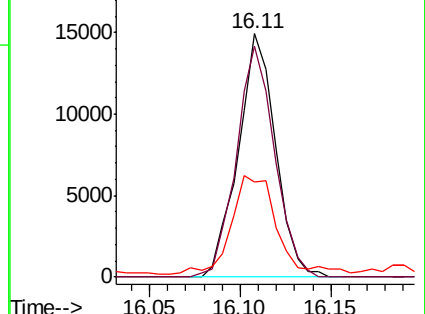
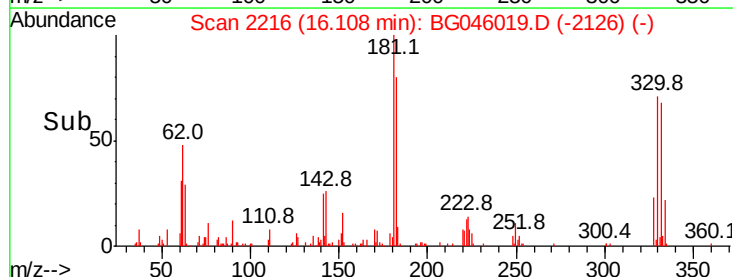
141 47.0 36.6 54.8

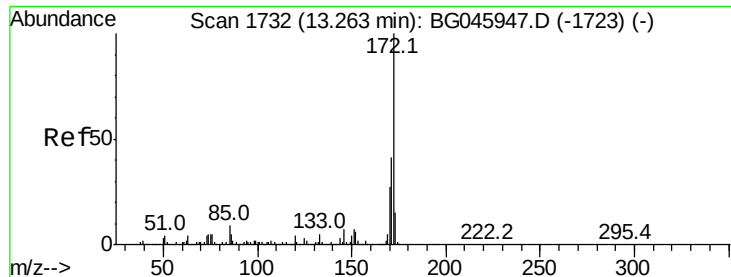


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

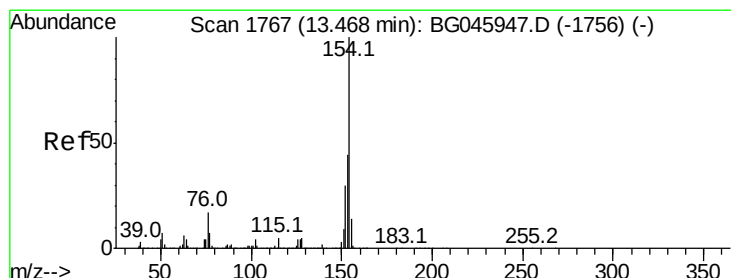
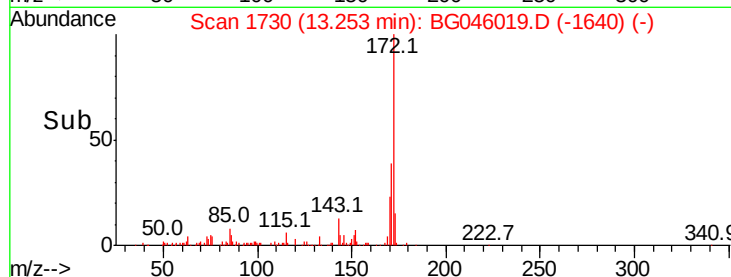
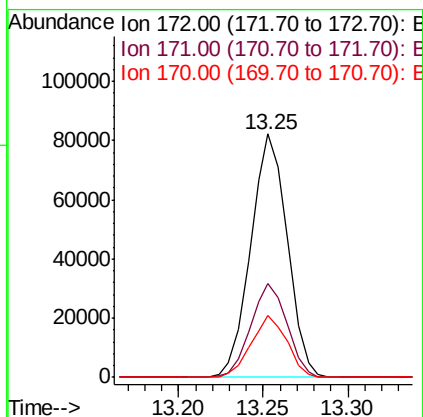
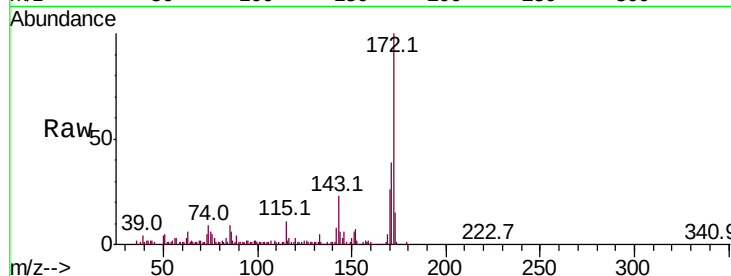




#45
2-Fluorobiphenyl
Concen: 3.952 ng
RT: 13.25 min Scan# 1730
Delta R.T. -0.00 min
Lab File: BG046019.D
Acq: 13 Jul 2020 11:30

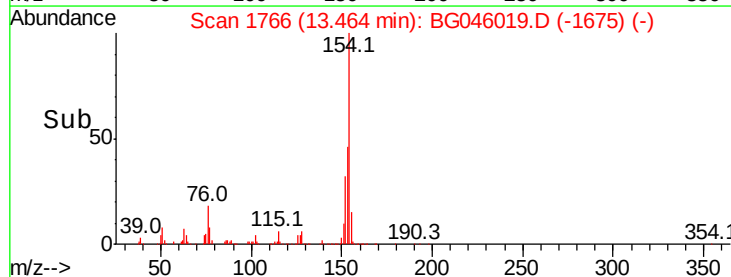
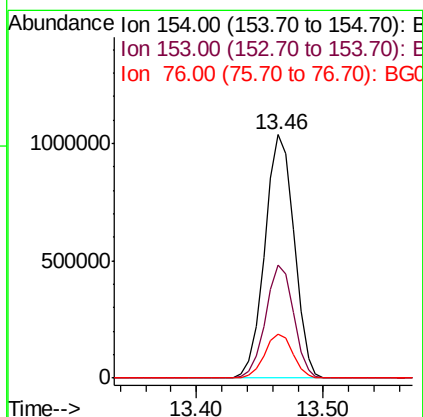
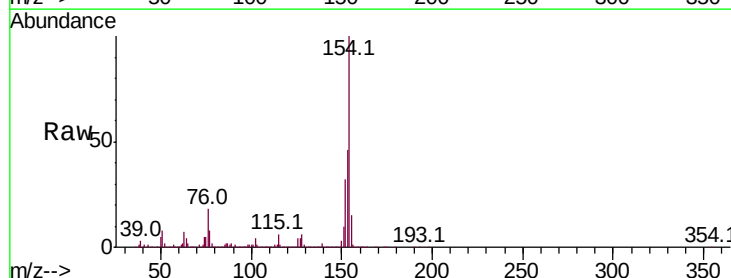
Instrument :
BNA_G
ClientSampleId :
E3-41-NHLRE

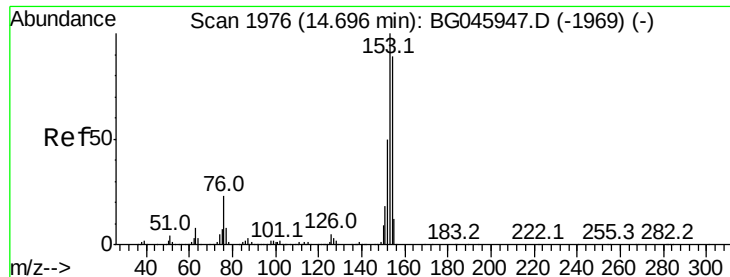
Tot Ion	Ratio	Lower	Upper
172	100		
171	38.7	32.9	49.3
170	25.6	21.8	32.6



#46
1,1'-Biphenyl
Concen: 45.111 ng
RT: 13.46 min Scan# 1766
Delta R.T. 0.00 min
Lab File: BG046019.D
Acq: 13 Jul 2020 11:30

Tgt Ion	Ratio	Lower	Upper
154	100		
153	46.4	23.6	63.6
76	18.3	0.0	36.9





#52

Acenaphthene

Concen: 51.334 ng

RT: 14.69 min Scan# 1975

Delta R.T. 0.00 min

Lab File: BG046019.D

Acq: 13 Jul 2020 11:30

Instrument :

BNA_G

ClientSampleId :

E3-41-NHLRE

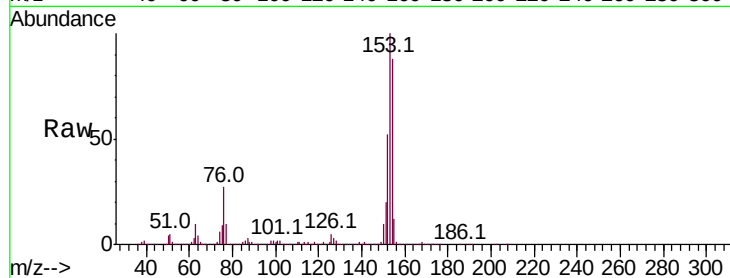
Tot Ion:154 Resp: 1509812

Ion Ratio Lower Upper

154 100

153 113.6 89.7 134.5

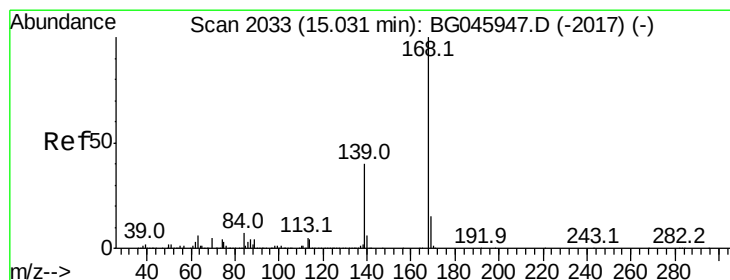
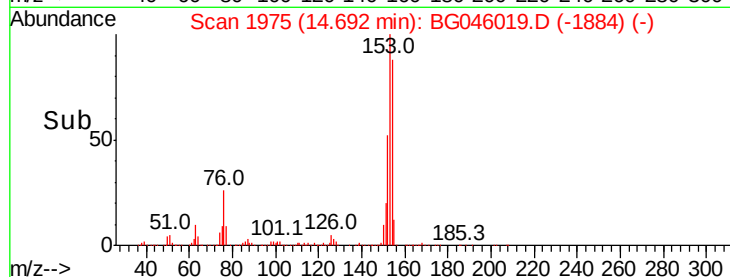
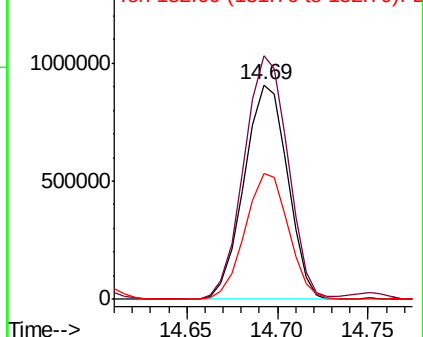
152 58.8 44.7 67.1



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

Dibenzofuran

Concen: 32.708 ng

RT: 15.03 min Scan# 2032

Delta R.T. 0.00 min

Lab File: BG046019.D

Acq: 13 Jul 2020 11:30

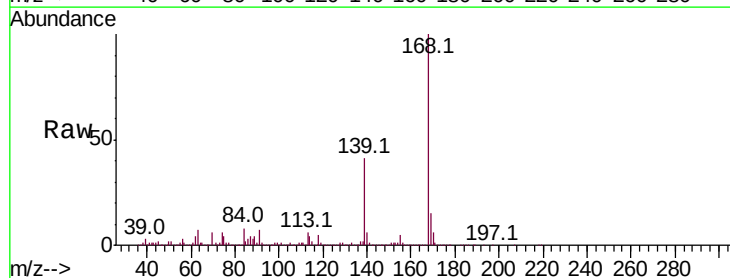
Tgt Ion:168 Resp: 1410141

Ion Ratio Lower Upper

168 100

139 41.4 32.2 48.2

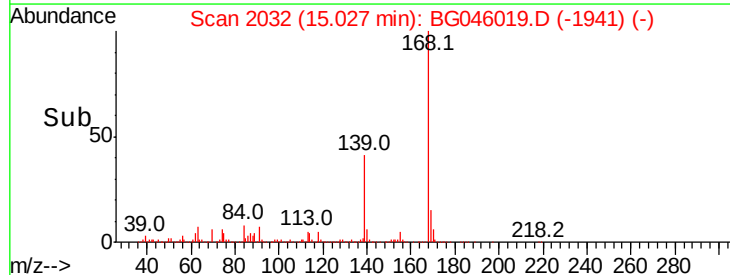
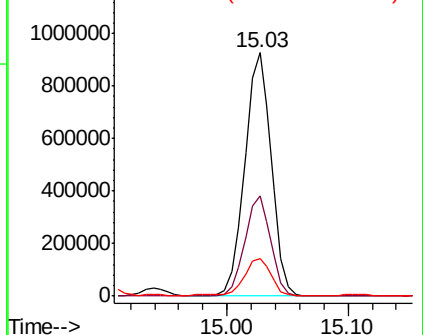
169 15.4 11.8 17.8

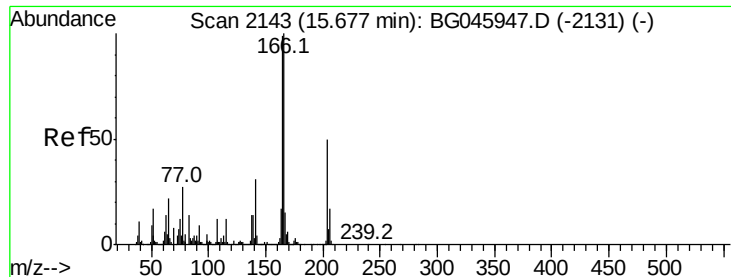


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#58

Fluorene

Concen: 8.878 ng

RT: 15.67 min Scan# 2142

Delta R.T. 0.00 min

Lab File: BG046019.D

Acq: 13 Jul 2020 11:30

Instrument :

BNA_G

ClientSampleId :

E3-41-NHLRE

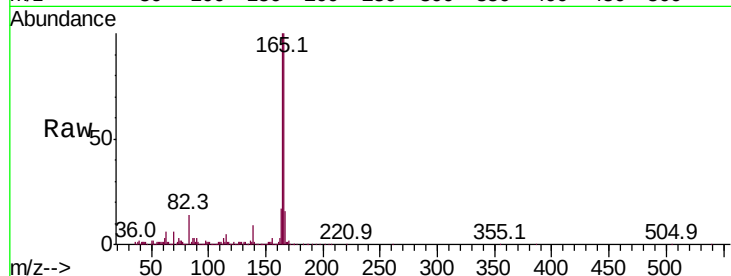
Tot Ion:166 Resp: 313977

Ion Ratio Lower Upper

166 100

165 100.1 78.9 118.3

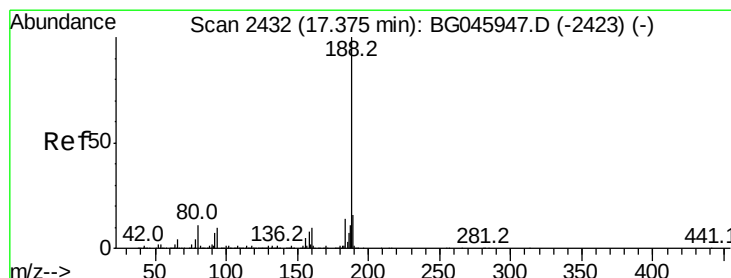
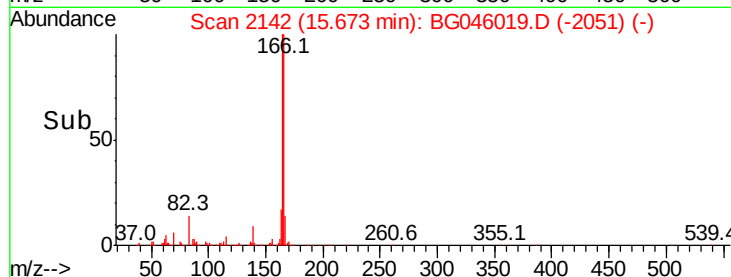
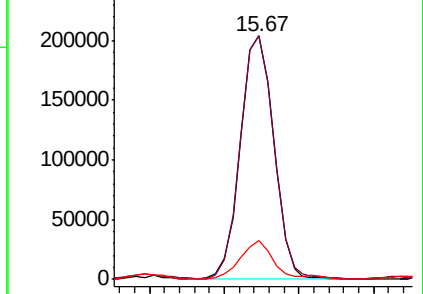
167 16.1 12.1 18.1



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: 17.37 min Scan# 2431

Delta R.T. 0.00 min

Lab File: BG046019.D

Acq: 13 Jul 2020 11:30

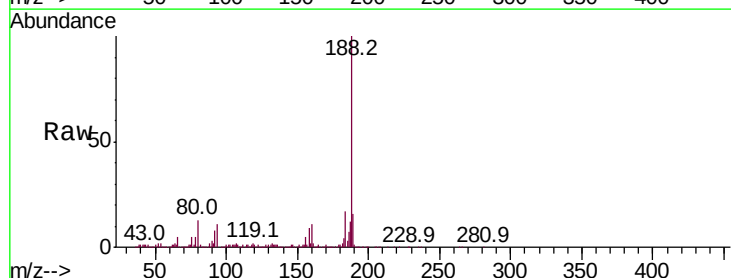
Tgt Ion:188 Resp: 928480

Ion Ratio Lower Upper

188 100

94 10.8 8.2 12.4

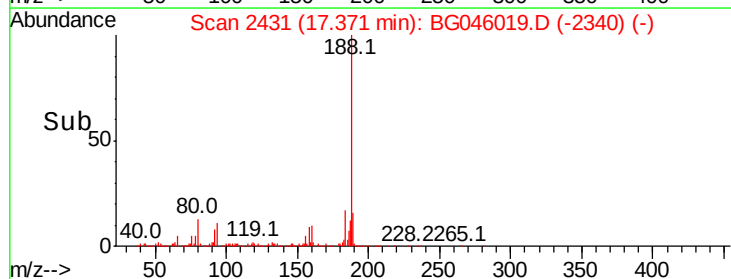
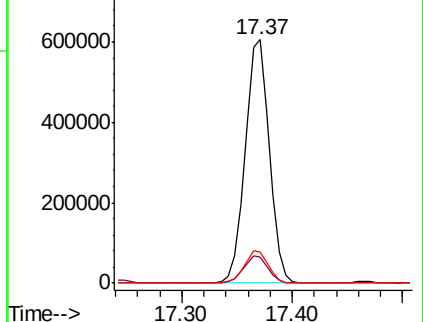
80 13.0 9.0 13.6

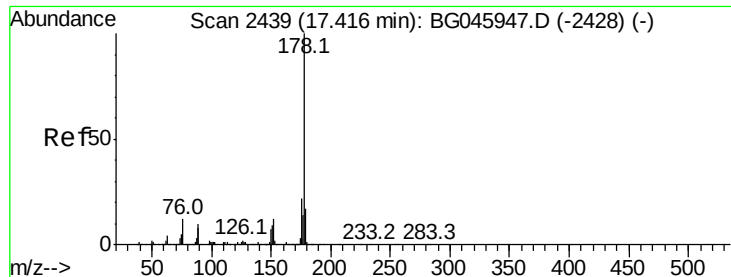


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG

Ion 80.00 (79.70 to 80.70): BG





#71

Phenanthrene

Concen: 6.075 ng

RT: 17.41 min Scan# 2438

Delta R.T. 0.00 min

Lab File: BG046019.D

Acq: 13 Jul 2020 11:30

Instrument :

BNA_G

ClientSampleId :

E3-41-NHLRE

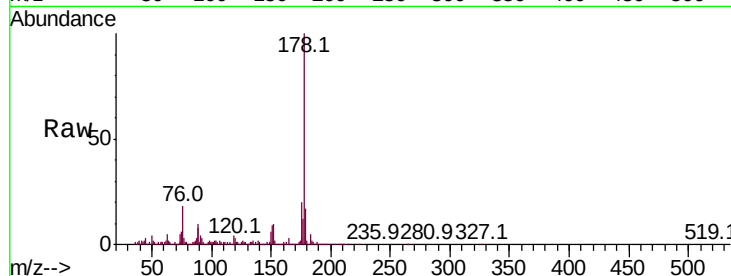
Tot Ion:178 Resp: 298196

Ion Ratio Lower Upper

178 100

176 20.3 17.4 26.2

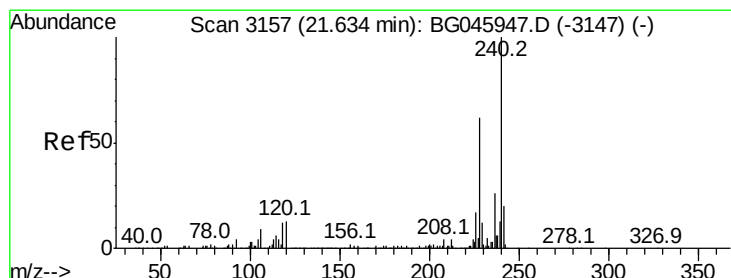
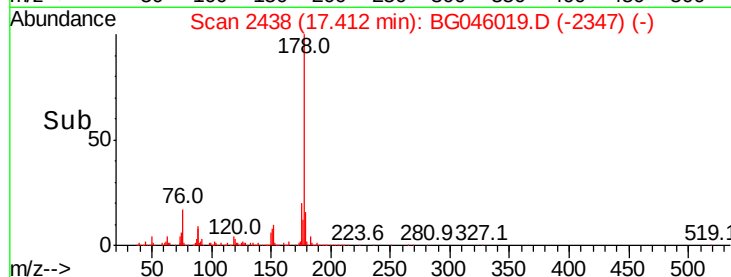
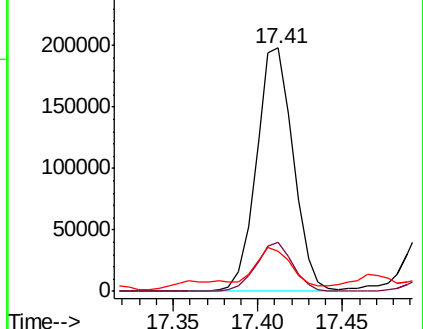
179 16.7 13.4 20.2



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



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.63 min Scan# 3156

Delta R.T. 0.00 min

Lab File: BG046019.D

Acq: 13 Jul 2020 11:30

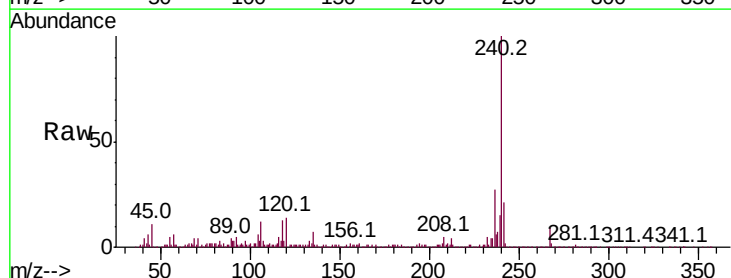
Tgt Ion:240 Resp: 770038

Ion Ratio Lower Upper

240 100

120 13.6 10.6 16.0

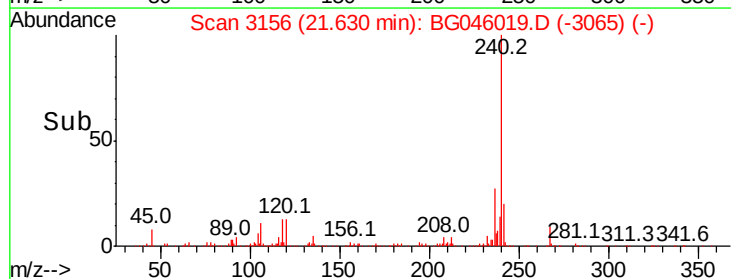
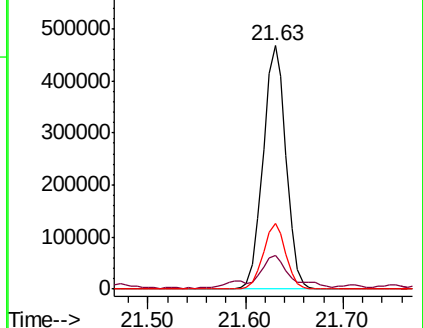
236 26.9 20.4 30.6

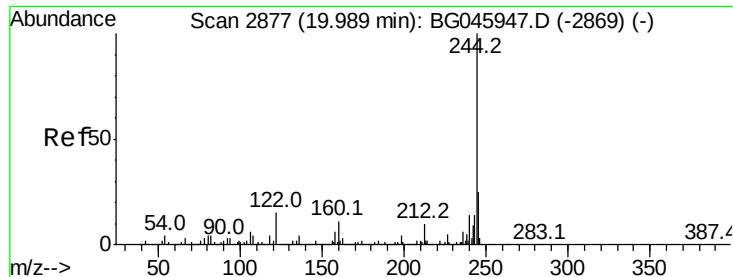


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#79

Terphenyl-d14

Concen: 4.579 ng

RT: 19.99 min Scan# 2876

Delta R.T. 0.00 min

Lab File: BG046019.D

Acq: 13 Jul 2020 11:30

Instrument :

BNA_G

ClientSampleId :

E3-41-NHLRE

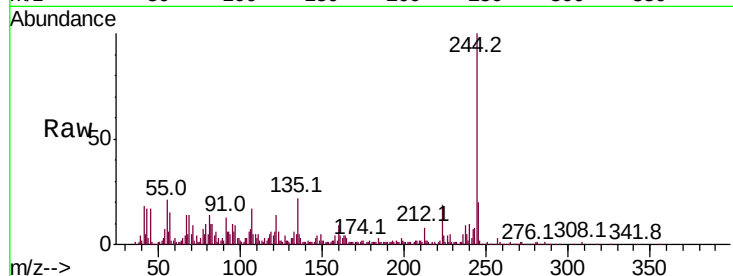
Tot Ion:244 Resp: 158425

Ion Ratio Lower Upper

244 100

212 7.6 8.3 12.5#

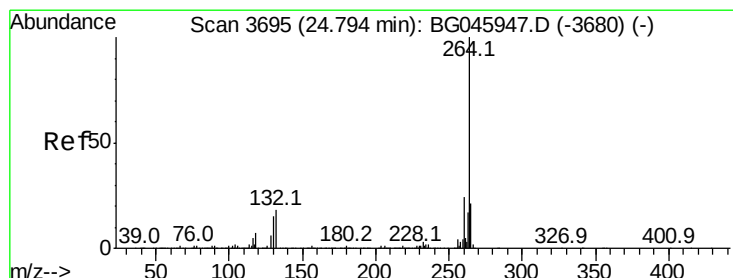
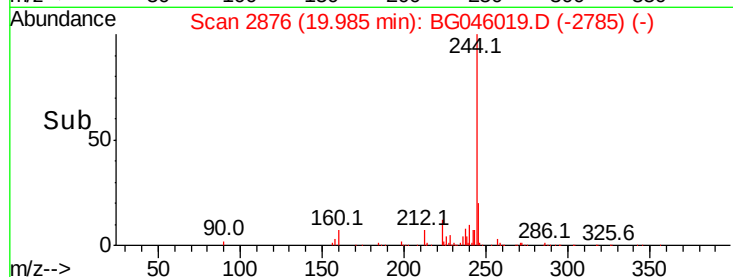
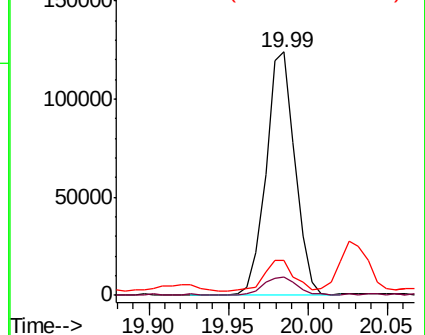
122 14.3 12.1 18.1



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.78 min Scan# 3693

Delta R.T. 0.00 min

Lab File: BG046019.D

Acq: 13 Jul 2020 11:30

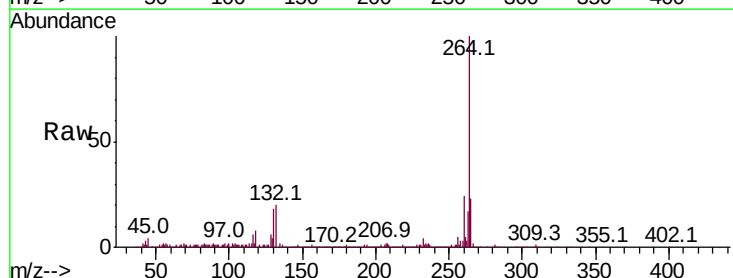
Tgt Ion:264 Resp: 810806

Ion Ratio Lower Upper

264 100

260 24.2 19.0 28.6

265 23.0 16.9 25.3



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

