

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040121\
 Data File : BG048561.D
 Acq On : 2 Apr 2021 2:33
 Operator : CG/JU
 Sample : M1883-03
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 V-211

Manual Integrations
 APPROVED

mohammad

4/2/2021 11:06:11 AM

Quant Time: Apr 02 04:19:10 2021
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG033021.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 01 11:19:59 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.097	152	27421	20.00	ng	0.00
21) Naphthalene-d8	10.935	136	107798	20.00	ng	# 0.00
39) Acenaphthene-d10	14.760	164	76300	20.00	ng	0.00
64) Phenanthrene-d10	17.510	188	130209	20.00	ng	# 0.00
76) Chrysene-d12	21.834	240	154373	20.00	ng	# 0.03
86) Perylene-d12	25.283	264	154546	20.00	ng	# 0.13
System Monitoring Compounds						
5) 2-Fluorophenol	5.641	112	127016	81.78	ng	0.00
7) Phenol-d6	7.251	99	160167	71.11	ng	0.00
23) Nitrobenzene-d5	9.272	82	123984	55.68	ng	0.00
42) 2,4,6-Tribromophenol	16.247	330	67181	66.98	ng	0.00
45) 2-Fluorobiphenyl	13.379	172	262358	51.11	ng	0.00
79) Terphenyl-d14	20.124	244	396568	46.98	ng	0.01
Target Compounds						Qvalue
14) 1,2-Dichlorobenzene	8.468	146	19711	10.32	ng	95
31) Naphthalene	10.994	128	1206860	217.74	ng	# 93
37) 2-Methylnaphthalene	12.610	142	1820667	412.62	ng	96
38) 1-Methylnaphthalene	12.821	142	1044564	248.22	ng	# 100
46) 1,1'-Biphenyl	13.591	154	125157	22.45	ng	98
49) Acenaphthylene	14.484	152	34748	5.22	ng	# 51
52) Acenaphthene	14.825	154	22538	4.68	ng	93
55) Dibenzofuran	15.160	168	32428	4.61	ng	# 1
58) Fluorene	15.806	166	58947	10.01	ng	# 99
71) Phenanthrene	17.551	178	133624	19.77	ng	99
72) Anthracene	17.639	178	22536m	3.35	ng	
74) Di-n-butylphthalate	18.462	149	27846	3.90	ng	# 88
75) Fluoranthene	19.566	202	105102	12.54	ng	85
78) Pyrene	19.931	202	169436	15.96	ng	# 92
81) Benzo(a)anthracene	21.817	228	67441	6.54	ng	# 67
83) Chrysene	21.887	228	80486	8.18	ng	# 72
84) Bis(2-ethylhexyl)phtha...	21.711	149	134049	24.41	ng	# 85
87) Indeno(1,2,3-cd)pyrene	29.190	276	40581	3.75	ng	# 95
88) Benzo(b)fluoranthene	24.179	252	81042	8.07	ng	# 1
89) Benzo(k)fluoranthene	24.249	252	29399m	3.05	ng	
90) Benzo(a)pyrene	25.113	252	70454	7.62	ng	# 1
92) Benzo(g,h,i)perylene	30.412	276	55784	6.16	ng	# 59

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040121\
Data File : BG048561.D
Acq On : 2 Apr 2021 2:33
Operator : CG/JU
Sample : M1883-03
Misc :
ALS Vial : 18 Sample Multiplier: 1

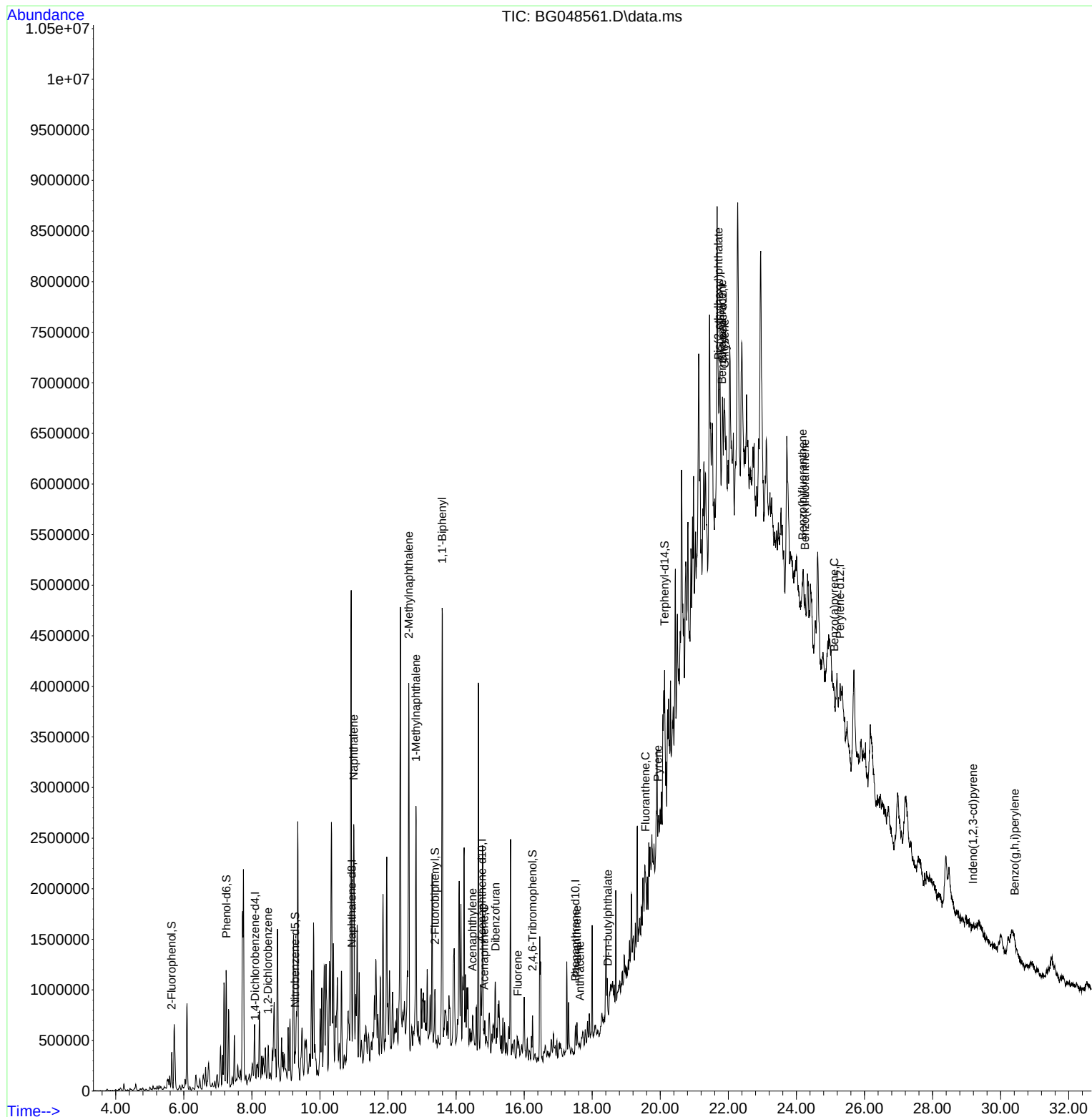
Instrument :
BNA_G
ClientSampleId :
V-211

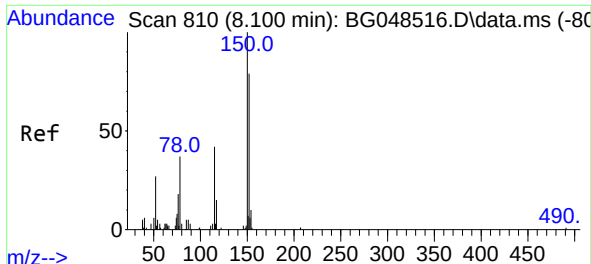
Manual Integrations
APPROVED

mohammad

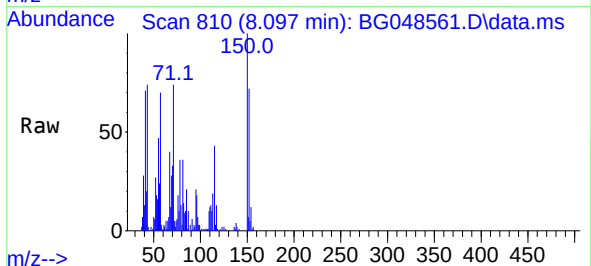
4/2/2021 11:06:11 AM

Quant Time: Apr 02 04:19:10 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG033021.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 01 11:19:59 2021
Response via : Initial Calibration

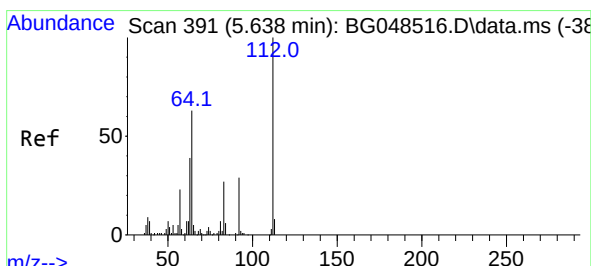
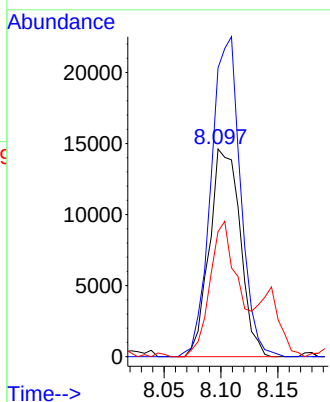
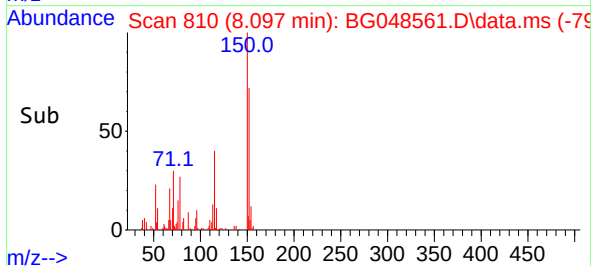




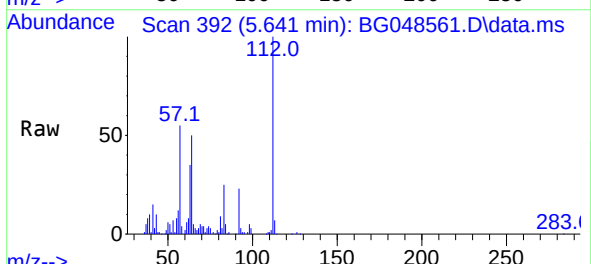
#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.097 min Scan# 810
Delta R.T. -0.007 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33



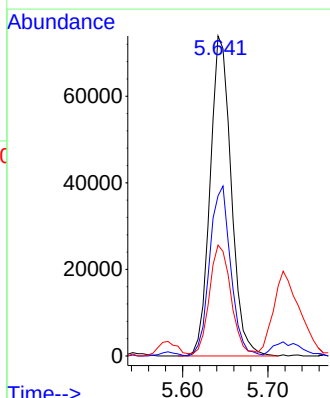
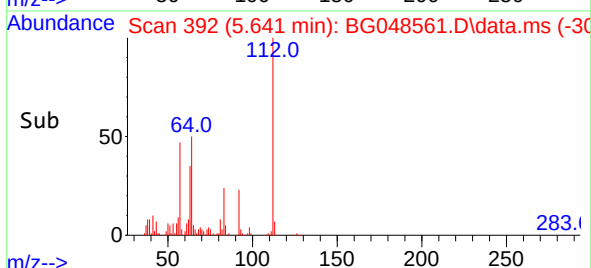
Tgt Ion:152 Resp: 27421
Ion Ratio Lower Upper
152 100
150 139.1 101.3 151.9
115 60.2 42.3 63.5



#5
2-Fluorophenol
Concen: 81.78 ng
RT: 5.641 min Scan# 392
Delta R.T. -0.000 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33



Tgt Ion:112 Resp: 127016
Ion Ratio Lower Upper
112 100
64 50.1 50.4 75.6#
63 34.7 31.4 47.2

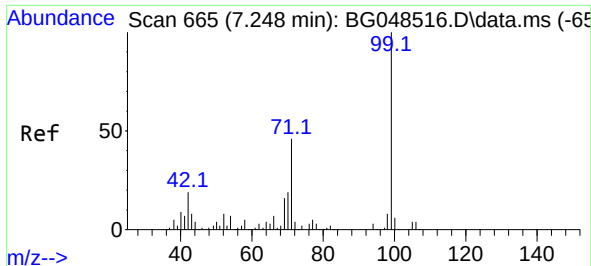


Instrument :
BNA_G
ClientSampleId :
V-211

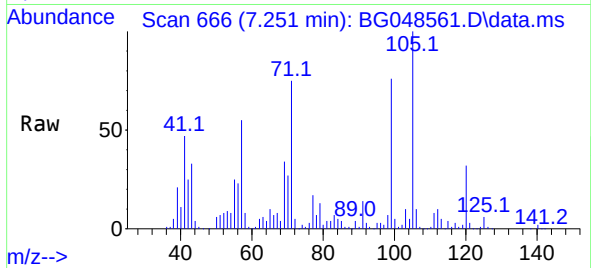
Manual Integrations
APPROVED

mohammad

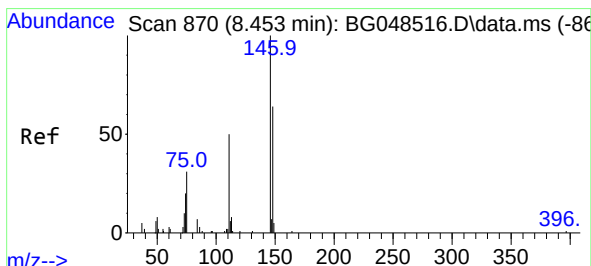
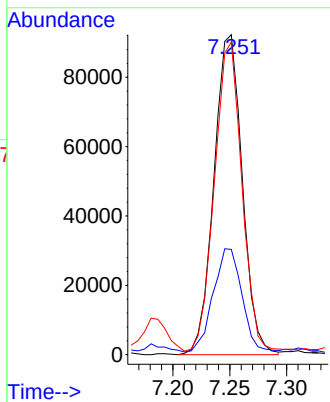
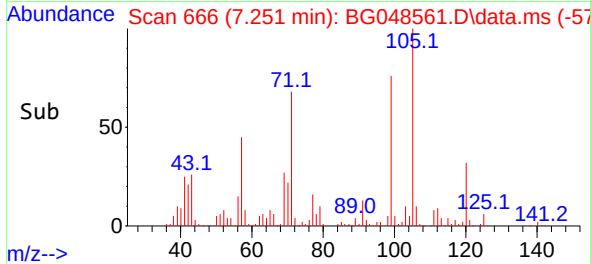
4/2/2021 11:06:11 AM



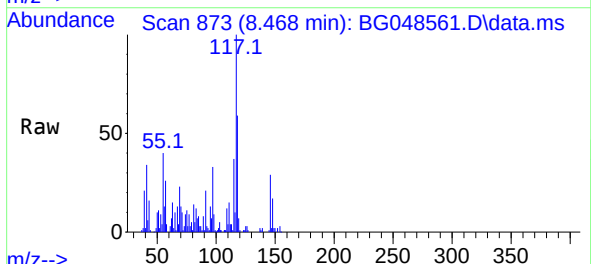
#7
Phenol-d6
Concen: 71.11 ng
RT: 7.251 min Scan# 666
Delta R.T. -0.000 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33



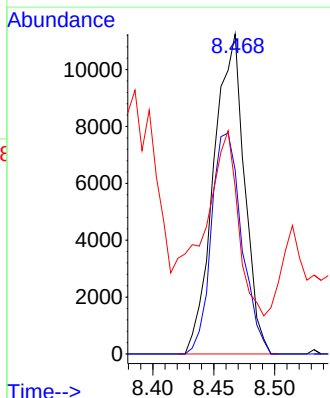
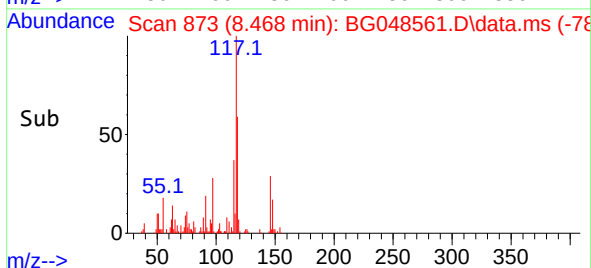
Tgt Ion: 99 Resp: 160167
Ion Ratio Lower Upper
99 100
42 32.9 15.5 23.3#
71 97.7 36.6 54.8#



#14
1,2-Dichlorobenzene
Concen: 10.32 ng
RT: 8.468 min Scan# 873
Delta R.T. 0.006 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33



Tgt Ion: 146 Resp: 19711
Ion Ratio Lower Upper
146 100
148 57.4 51.5 77.3
111 52.2 41.8 62.8

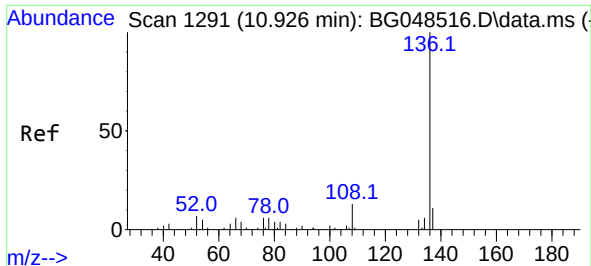


Instrument :
BNA_G
ClientSampled :
V-211

Manual Integrations
APPROVED

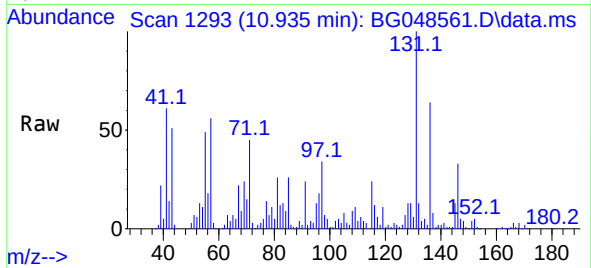
mohammad

4/2/2021 11:06:11 AM



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 10.935 min Scan# 1293
Delta R.T. 0.006 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33

Instrument :
BNA_G
ClientSampled :
V-211

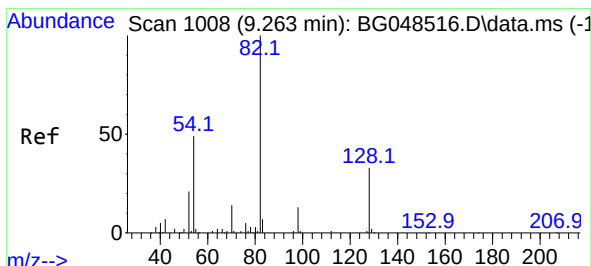
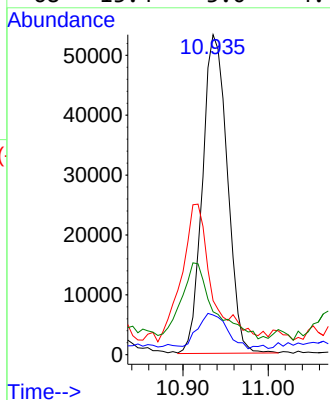
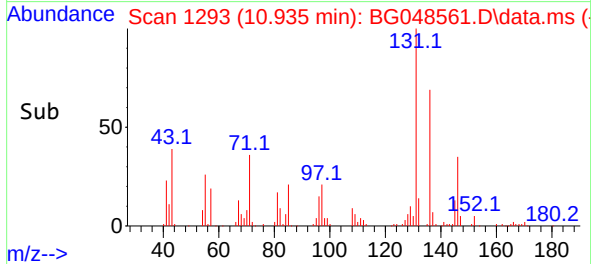


Tgt Ion:136 Resp: 107798
Ion Ratio Lower Upper
136 100
137 12.4 8.6 12.8
54 16.9 4.2 6.4#
68 13.4 3.0 4.4#

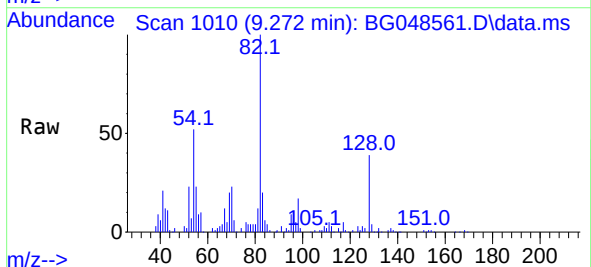
Manual Integrations
APPROVED

mohammad

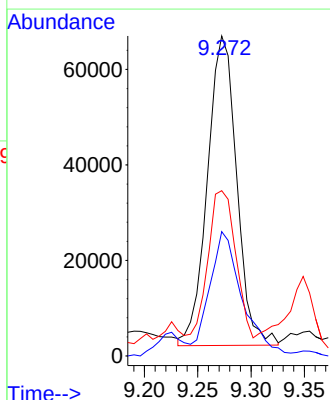
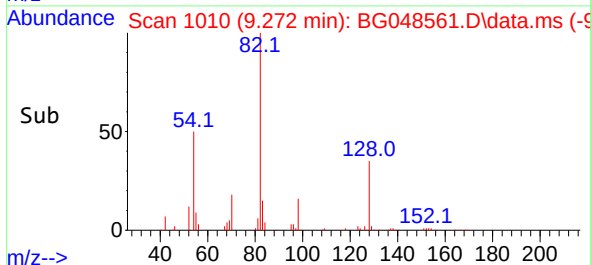
4/2/2021 11:06:11 AM

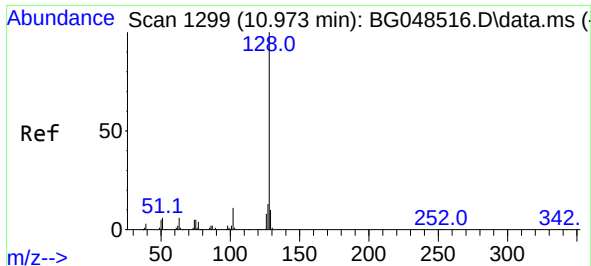


#23
Nitrobenzene-d5
Concen: 55.68 ng
RT: 9.272 min Scan# 1010
Delta R.T. -0.000 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33



Tgt Ion: 82 Resp: 123984
Ion Ratio Lower Upper
82 100
128 38.8 26.2 39.4
54 51.7 38.9 58.3





#31
Naphthalene
Concen: 217.74 ng
RT: 10.994 min Scan# 1303
Delta R.T. 0.011 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33

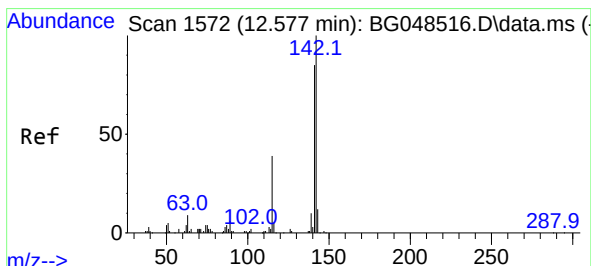
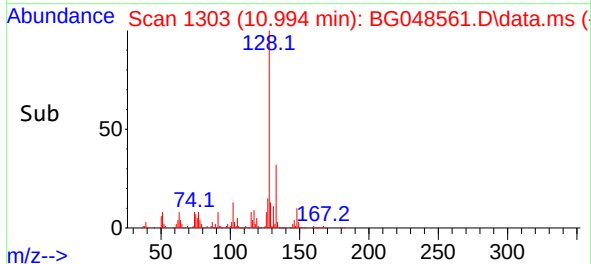
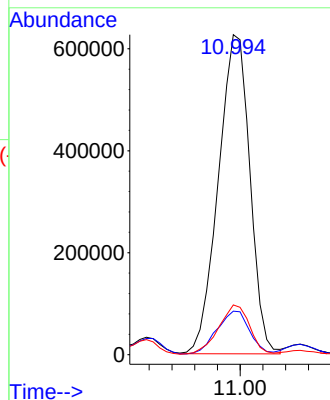
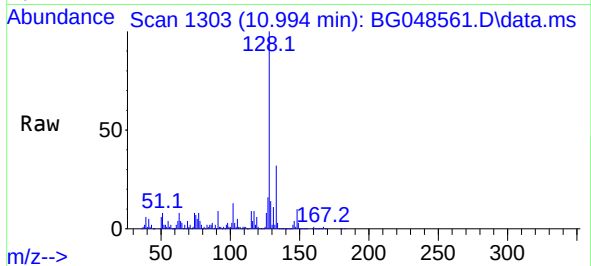
Tgt Ion:128 Resp: 1206860
Ion Ratio Lower Upper
128 100
129 13.6 8.2 12.2#
127 15.6 10.6 16.0

Instrument :
BNA_G
ClientSampled :
V-211

Manual Integrations
APPROVED

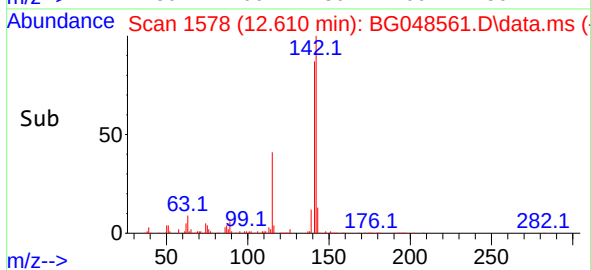
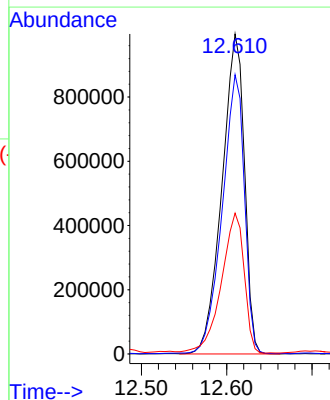
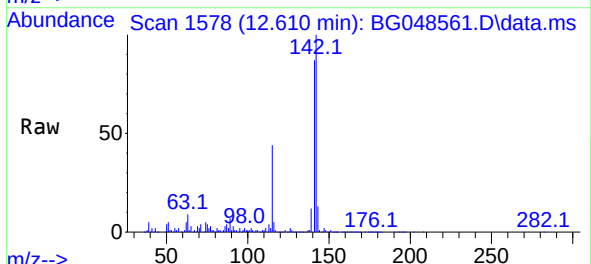
mohammad

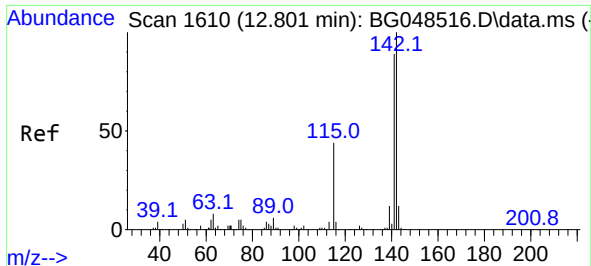
4/2/2021 11:06:11 AM



#37
2-Methylnaphthalene
Concen: 412.62 ng
RT: 12.610 min Scan# 1578
Delta R.T. 0.029 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33

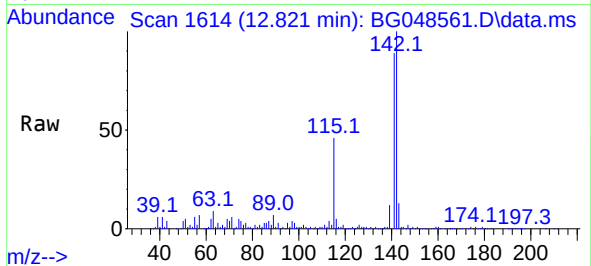
Tgt Ion:142 Resp: 1820667
Ion Ratio Lower Upper
142 100
141 87.3 68.2 102.4
115 44.0 30.8 46.2





#38
1-Methylnaphthalene
Concen: 248.22 ng
RT: 12.821 min Scan# 1614
Delta R.T. 0.017 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33

Instrument :
BNA_G
ClientSampled :
V-211

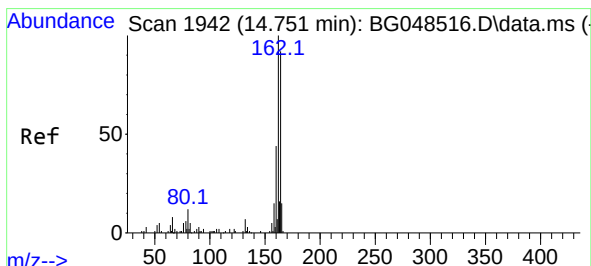
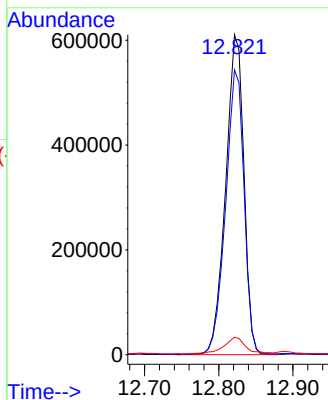
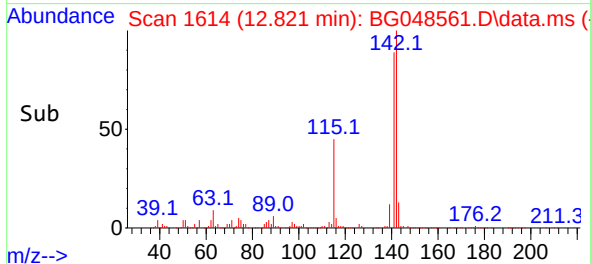


Tgt Ion:142 Resp: 1044564
Ion Ratio Lower Upper
142 100
141 89.0 71.2 106.8
116 5.4 3.4 5.0#

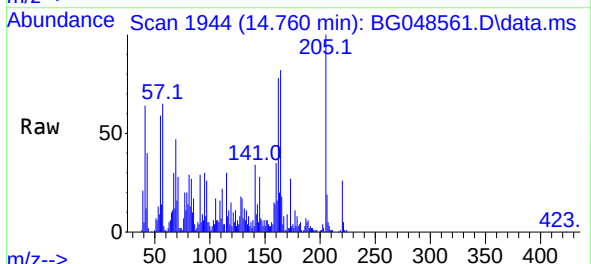
Manual Integrations
APPROVED

mohammad

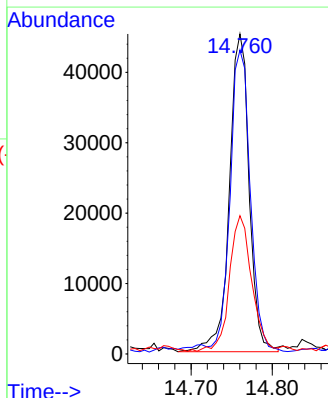
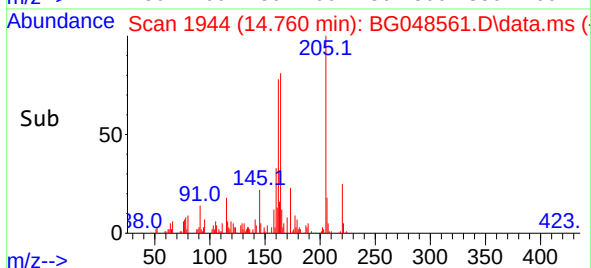
4/2/2021 11:06:11 AM

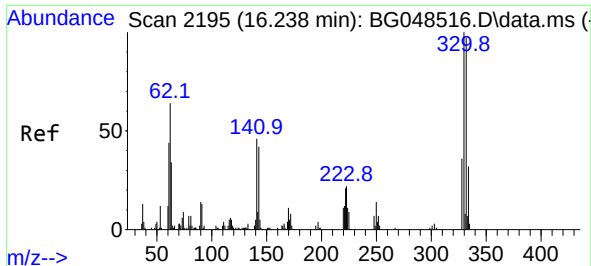


#39
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.760 min Scan# 1944
Delta R.T. 0.006 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33



Tgt Ion:164 Resp: 76300
Ion Ratio Lower Upper
164 100
162 94.9 87.0 130.6
160 43.2 38.4 57.6





#42
2,4,6-Tribromophenol
Concen: 66.98 ng
RT: 16.247 min Scan# 2197
Delta R.T. -0.000 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33

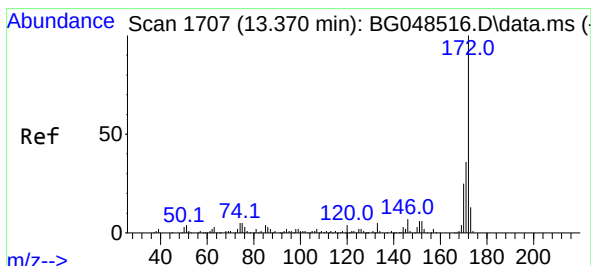
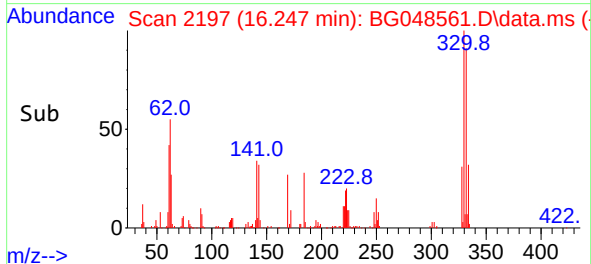
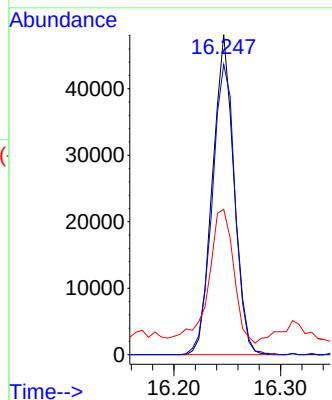
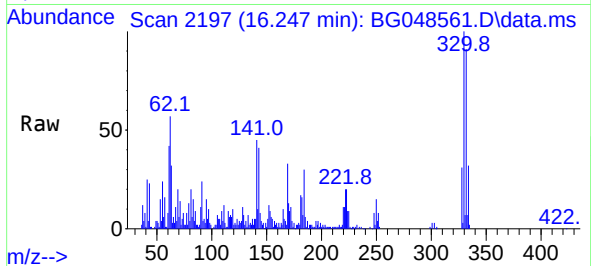
Tgt Ion:	330	Resp:	67181
Ion Ratio	Lower	Upper	
330	100		
332	96.8	77.6	116.4
141	49.1	34.6	52.0

Instrument :
BNA_G
ClientSampled :
V-211

Manual Integrations
APPROVED

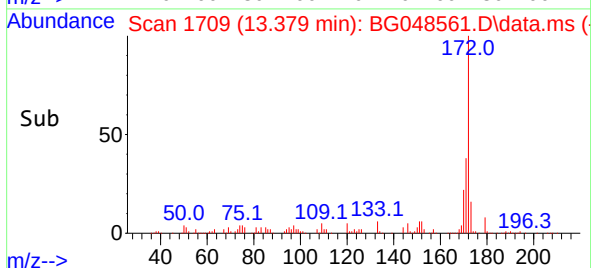
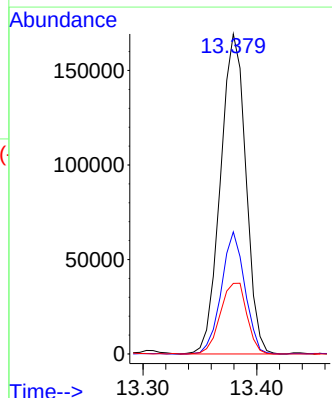
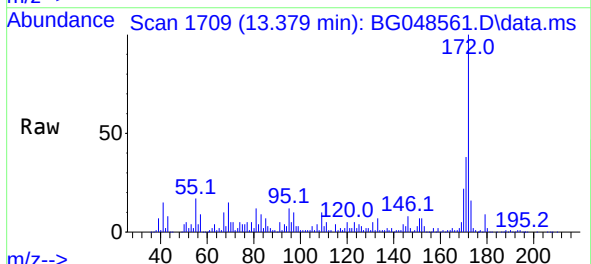
mohammad

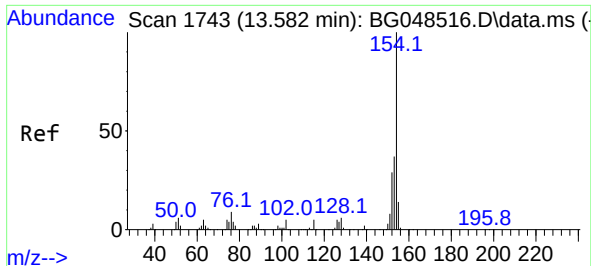
4/2/2021 11:06:11 AM



#45
2-Fluorobiphenyl
Concen: 51.11 ng
RT: 13.379 min Scan# 1709
Delta R.T. -0.000 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33

Tgt Ion:	172	Resp:	262358
Ion Ratio	Lower	Upper	
172	100		
171	38.2	28.5	42.7
170	22.0	19.8	29.6





#46
1,1'-Biphenyl
Concen: 22.45 ng
RT: 13.591 min Scan# 1745
Delta R.T. 0.006 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33

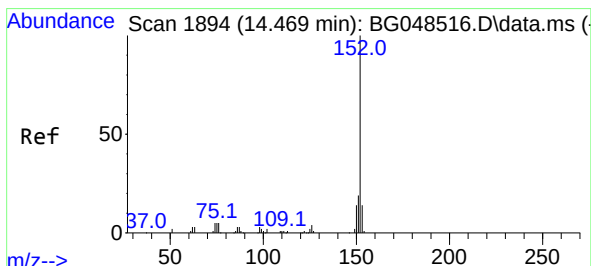
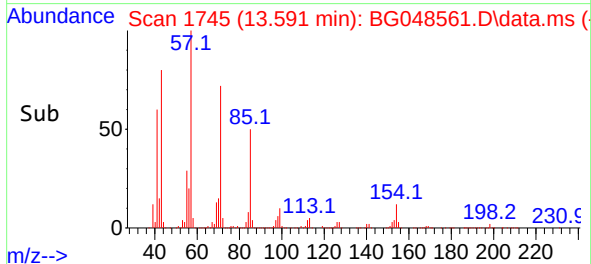
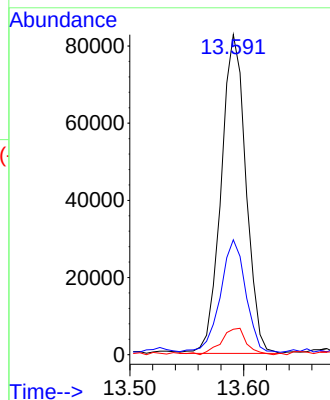
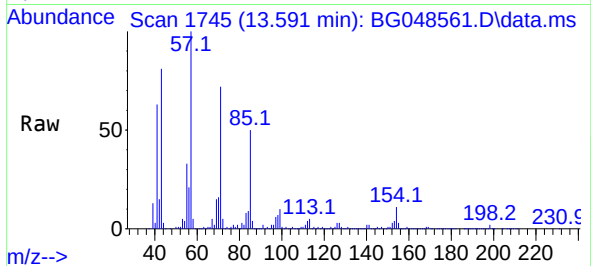
Tgt Ion:154 Resp: 125157
Ion Ratio Lower Upper
154 100
153 35.9 17.3 57.3
76 7.9 0.0 28.6

Instrument :
BNA_G
ClientSampled :
V-211

Manual Integrations
APPROVED

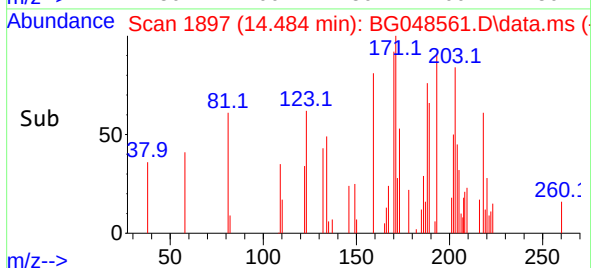
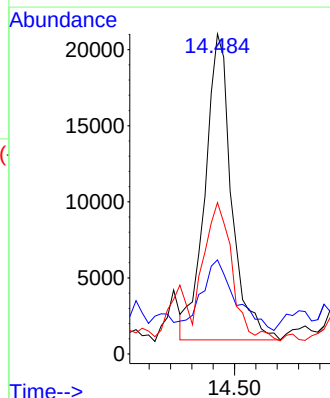
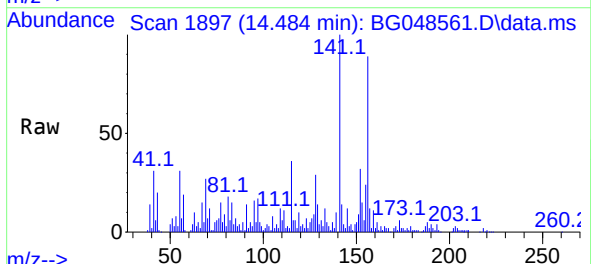
mohammad

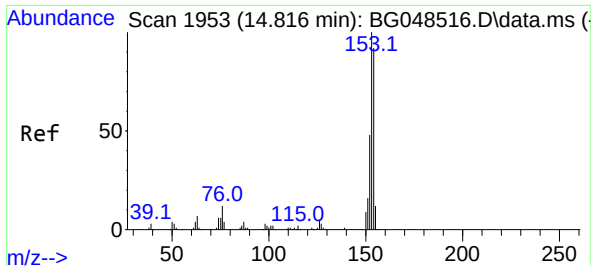
4/2/2021 11:06:11 AM



#49
Acenaphthylene
Concen: 5.22 ng
RT: 14.484 min Scan# 1897
Delta R.T. 0.006 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33

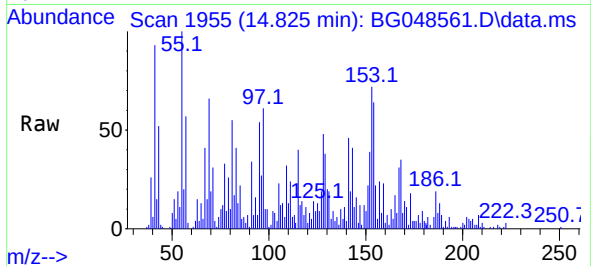
Tgt Ion:152 Resp: 34748
Ion Ratio Lower Upper
152 100
151 29.4 15.0 22.6#
153 47.3 11.0 16.6#





#52
Acenaphthene
Concen: 4.68 ng
RT: 14.825 min Scan# 1955
Delta R.T. 0.006 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33

Instrument :
BNA_G
ClientSampled :
V-211

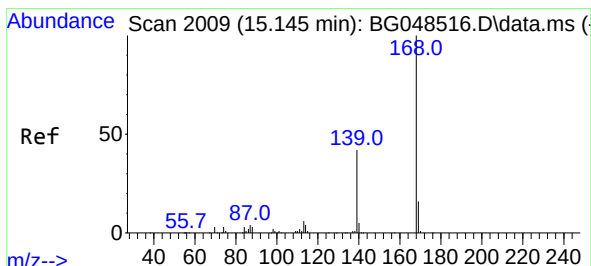
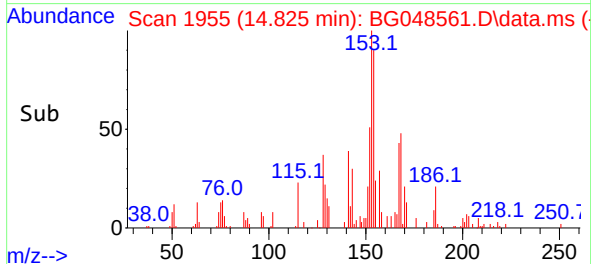
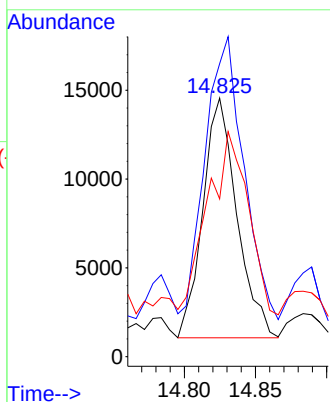


Tgt Ion:154 Resp: 22538
Ion Ratio Lower Upper
154 100
153 113.3 86.6 129.8
152 61.0 41.5 62.3

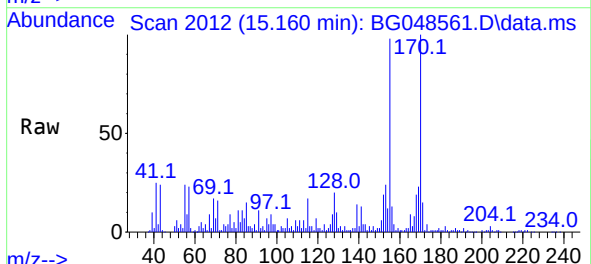
Manual Integrations
APPROVED

mohammad

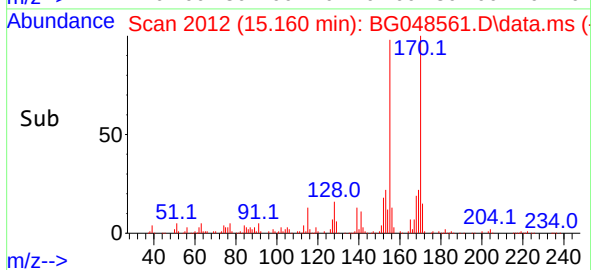
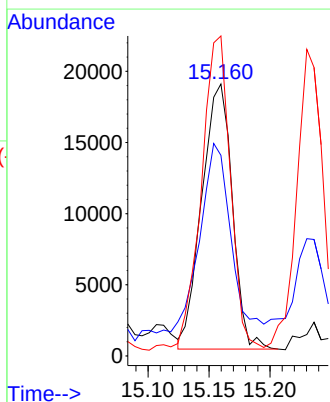
4/2/2021 11:06:11 AM

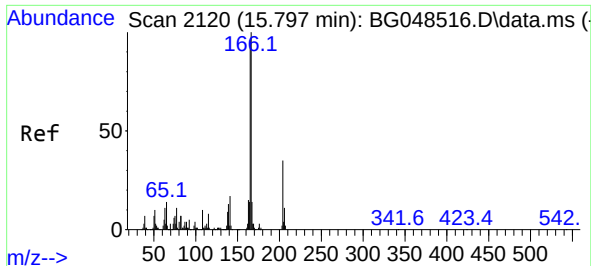


#55
Dibenzofuran
Concen: 4.61 ng
RT: 15.160 min Scan# 2012
Delta R.T. 0.006 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33



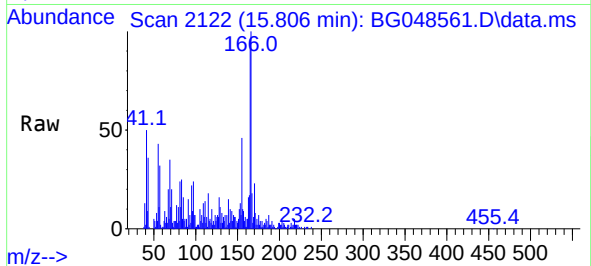
Tgt Ion:168 Resp: 32428
Ion Ratio Lower Upper
168 100
139 73.8 33.7 50.5#
169 117.7 12.5 18.7#





#58
Fluorene
Concen: 10.01 ng
RT: 15.806 min Scan# 2122
Delta R.T. 0.006 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33

Instrument :
BNA_G
ClientSampled :
V-211

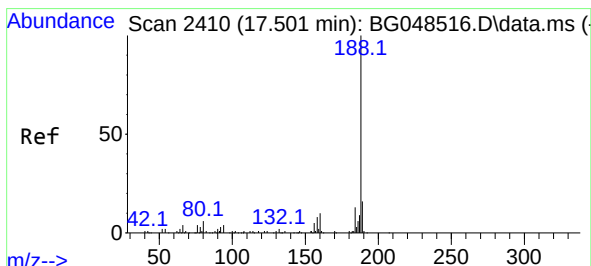
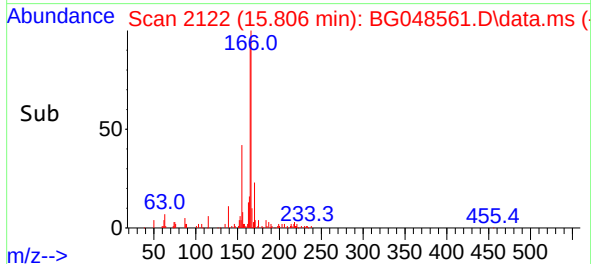
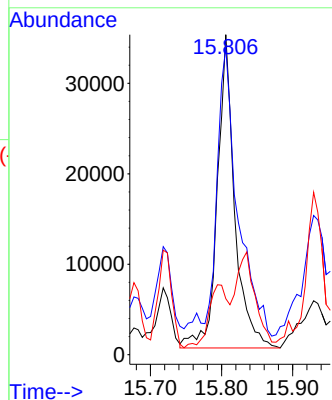


Tgt Ion:166 Resp: 58947
Ion Ratio Lower Upper
166 100
165 96.1 76.8 115.2
167 17.5 11.1 16.7#

Manual Integrations
APPROVED

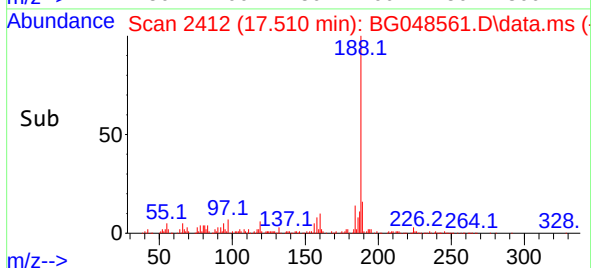
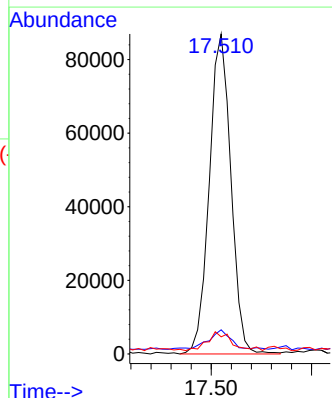
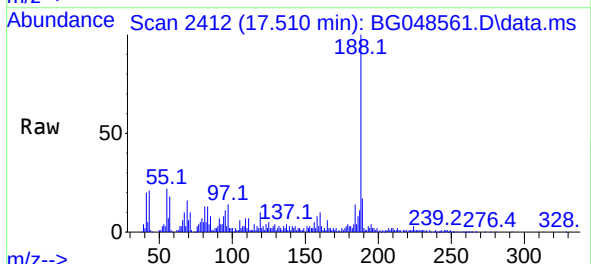
mohammad

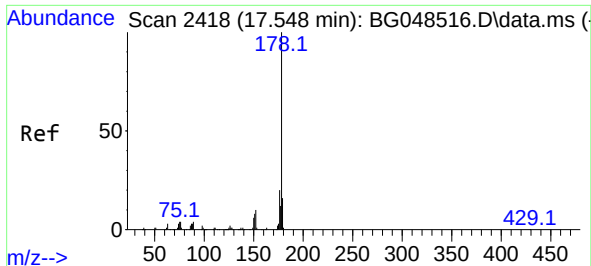
4/2/2021 11:06:11 AM



#64
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.510 min Scan# 2412
Delta R.T. 0.006 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33

Tgt Ion:188 Resp: 130209
Ion Ratio Lower Upper
188 100
94 7.5 3.0 4.6#
80 5.3 4.5 6.7





#71
Phenanthrene
Concen: 19.77 ng
RT: 17.551 min Scan# 2419
Delta R.T. -0.000 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33

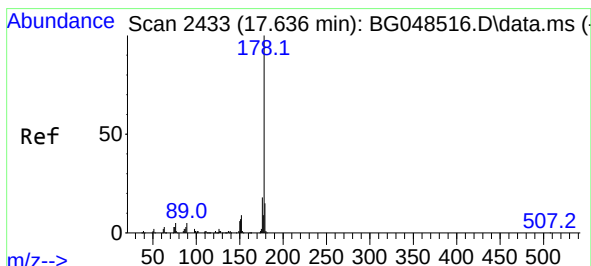
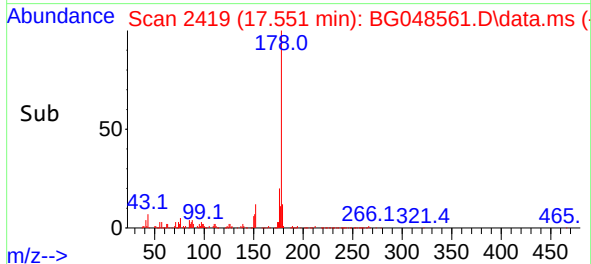
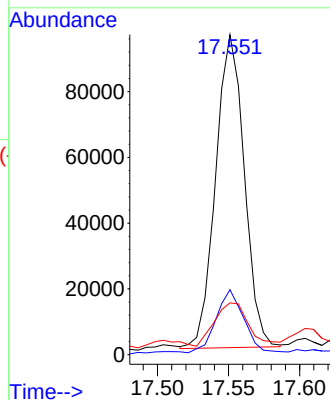
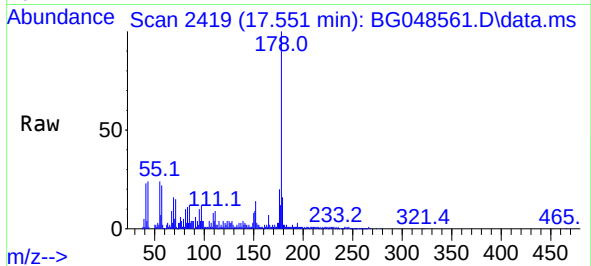
Tgt Ion:	178	Resp:	133624
Ion Ratio	Lower	Upper	
178	100		
176	20.3	15.6	23.4
179	16.2	12.9	19.3

Instrument :
BNA_G
ClientSampled :
V-211

Manual Integrations
APPROVED

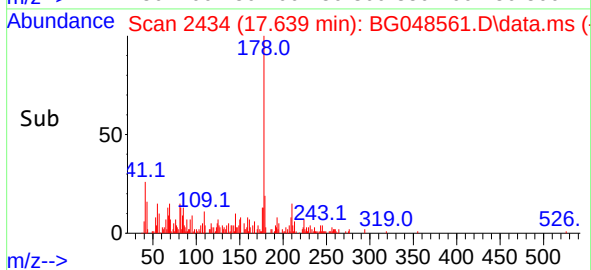
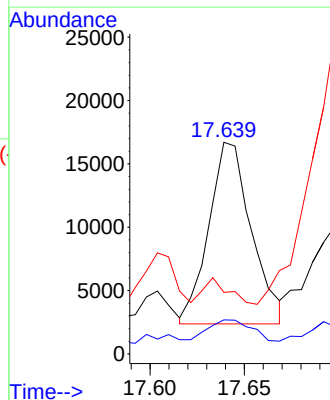
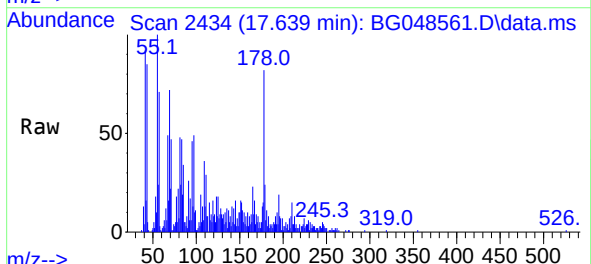
mohammad

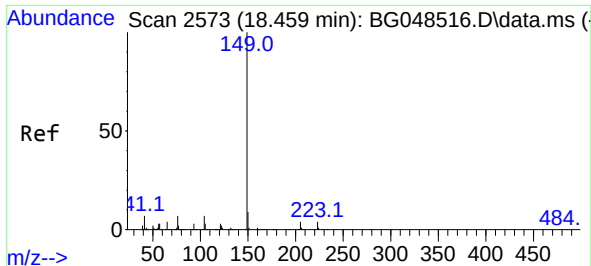
4/2/2021 11:06:11 AM



#72
Anthracene
Concen: 3.35 ng m
RT: 17.639 min Scan# 2434
Delta R.T. -0.000 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33

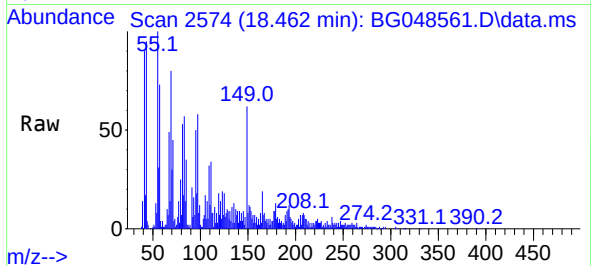
Tgt Ion:	178	Resp:	22536
Ion Ratio	Lower	Upper	
178	100		
176	16.1	14.1	21.1
179	29.1	11.9	17.9#





#74
Di-n-butylphthalate
Concen: 3.90 ng
RT: 18.462 min Scan# 2574
Delta R.T. -0.000 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33

Instrument :
BNA_G
ClientSampled :
V-211

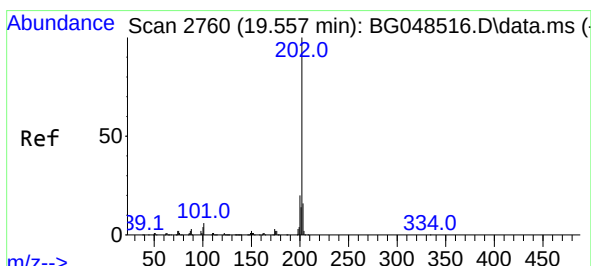
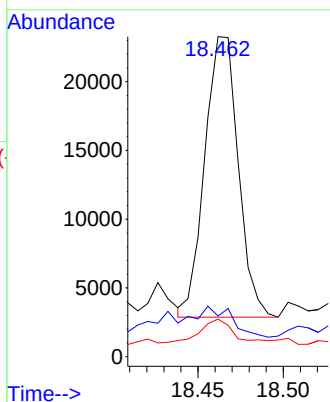
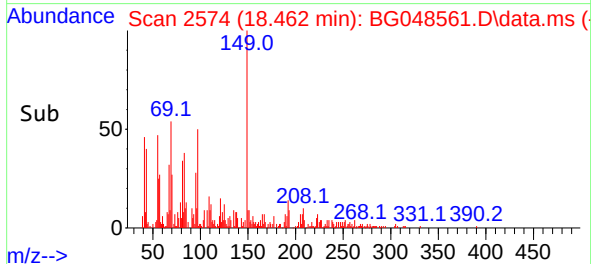


Tgt Ion:149 Resp: 27846
Ion Ratio Lower Upper
149 100
150 12.7 7.0 10.4#
104 11.8 5.9 8.9#

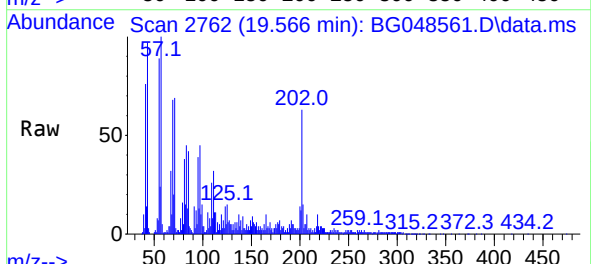
Manual Integrations
APPROVED

mohammad

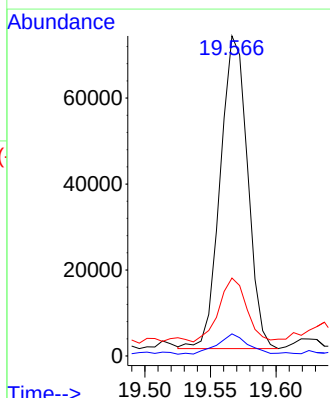
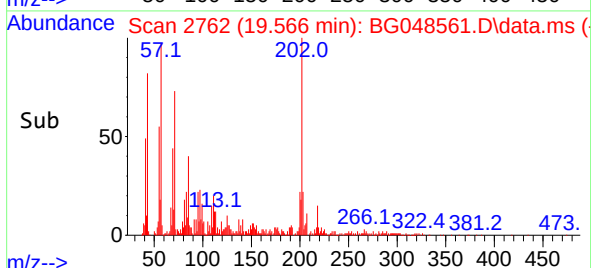
4/2/2021 11:06:11 AM

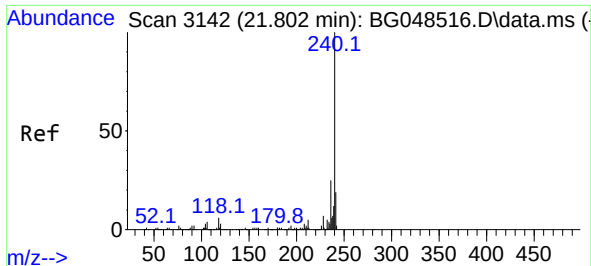


#75
Fluoranthene
Concen: 12.54 ng
RT: 19.566 min Scan# 2762
Delta R.T. 0.006 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33

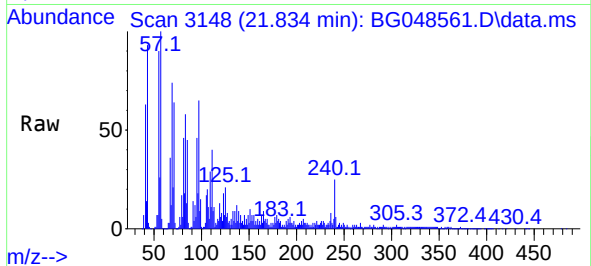


Tgt Ion:202 Resp: 105102
Ion Ratio Lower Upper
202 100
101 6.9 0.0 25.8
203 24.3 0.0 36.4

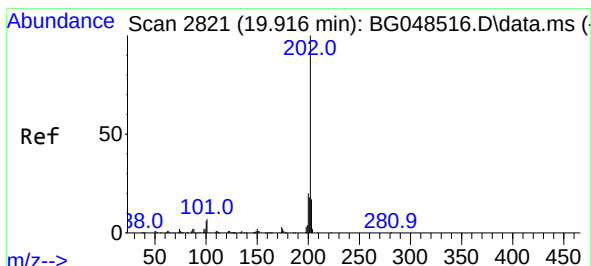
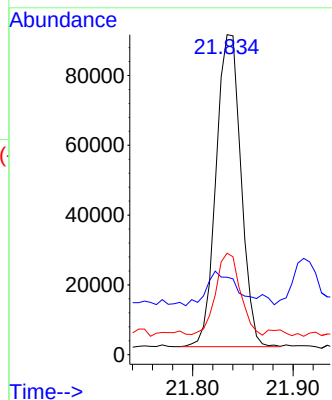
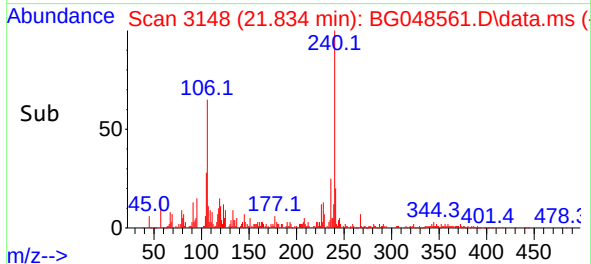




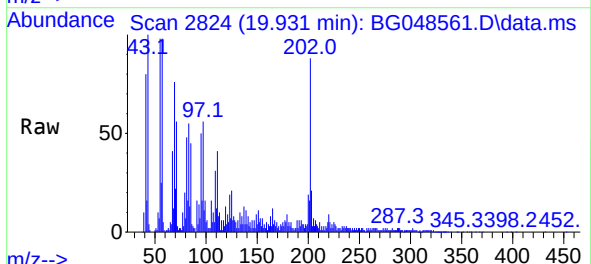
#76
Chrysene-d12
Concen: 20.00 ng
RT: 21.834 min Scan# 3148
Delta R.T. 0.029 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33



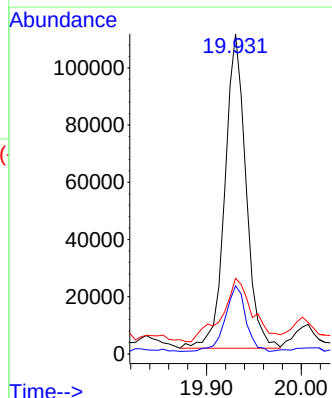
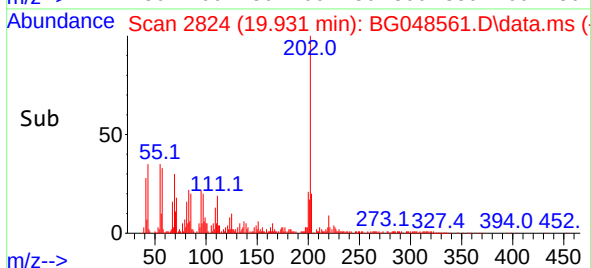
Tgt Ion:240 Resp: 154373
Ion Ratio Lower Upper
240 100
120 24.2 2.6 3.8#
236 31.7 19.8 29.6#



#78
Pyrene
Concen: 15.96 ng
RT: 19.931 min Scan# 2824
Delta R.T. 0.011 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33



Tgt Ion:202 Resp: 169436
Ion Ratio Lower Upper
202 100
200 21.3 16.1 24.1
203 23.7 13.6 20.4#

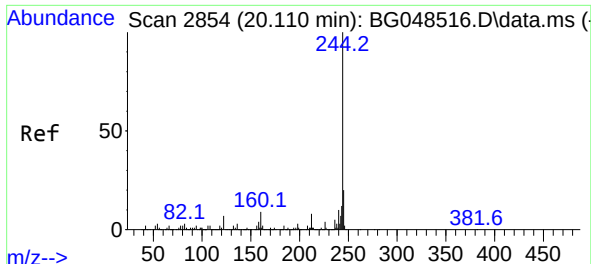


Instrument :
BNA_G
ClientSampled :
V-211

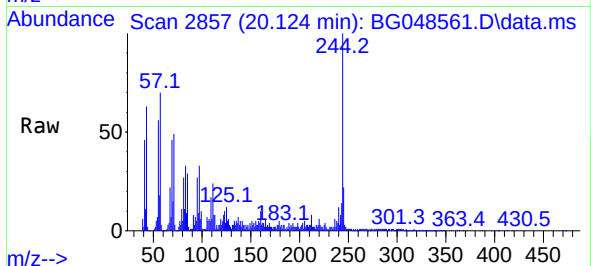
Manual Integrations
APPROVED

mohammad

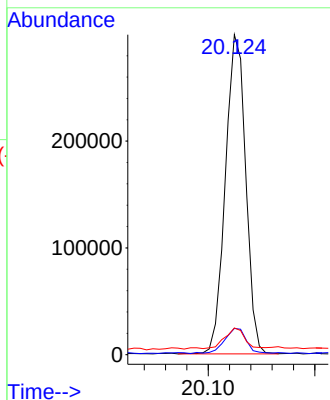
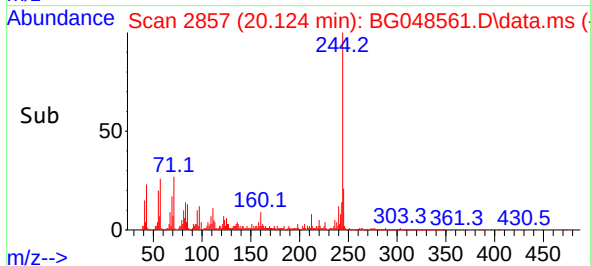
4/2/2021 11:06:11 AM



#79
 Terphenyl-d14
 Concen: 46.98 ng
 RT: 20.124 min Scan# 2857
 Delta R.T. 0.011 min
 Lab File: BG048561.D
 Acq: 2 Apr 2021 2:33



Tgt Ion:	244	Resp:	396568
Ion Ratio	Lower	Upper	
244	100		
212	8.2	6.0	9.0
122	8.4	5.8	8.6

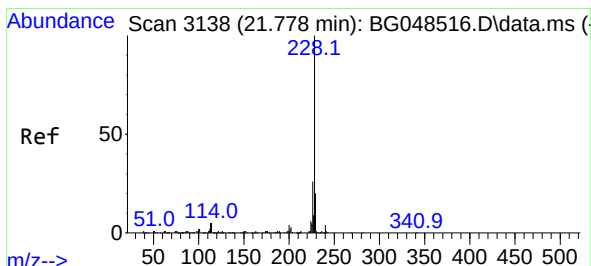


Instrument :
 BNA_G
 ClientSampled :
 V-211

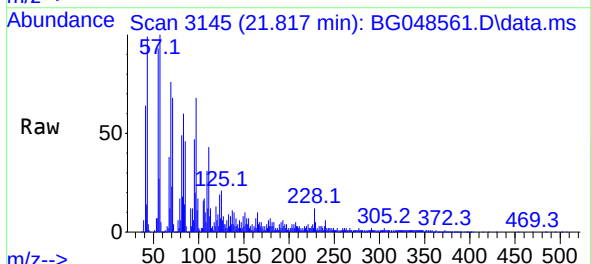
Manual Integrations
 APPROVED

mohammad

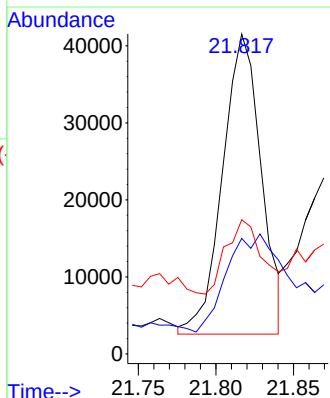
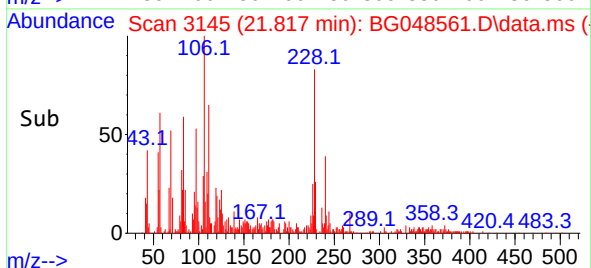
4/2/2021 11:06:11 AM

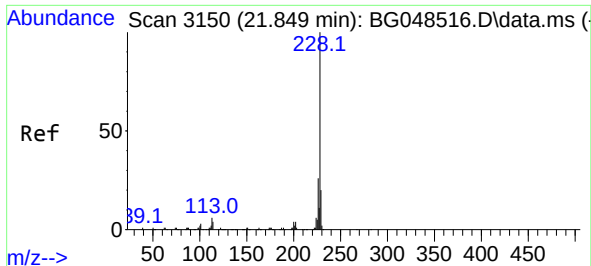


#81
 Benzo(a)anthracene
 Concen: 6.54 ng
 RT: 21.817 min Scan# 3145
 Delta R.T. 0.035 min
 Lab File: BG048561.D
 Acq: 2 Apr 2021 2:33



Tgt Ion:	228	Resp:	67441
Ion Ratio	Lower	Upper	
228	100		
226	36.1	20.6	30.8#
229	42.0	15.8	23.8#





#83
Chrysene
Concen: 8.18 ng
RT: 21.887 min Scan# 3157
Delta R.T. 0.035 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33

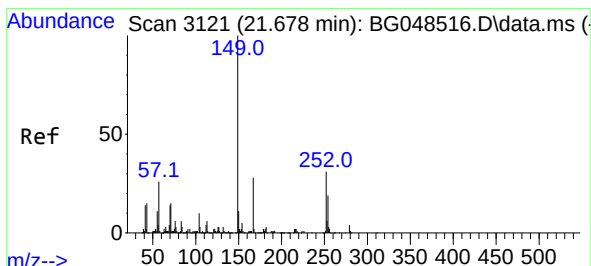
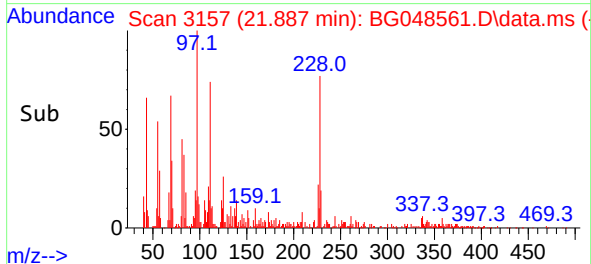
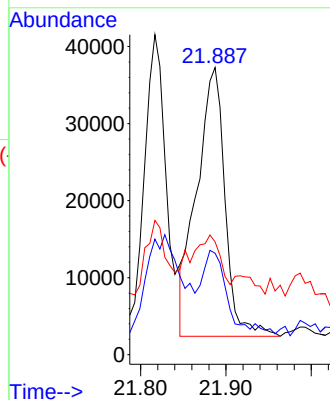
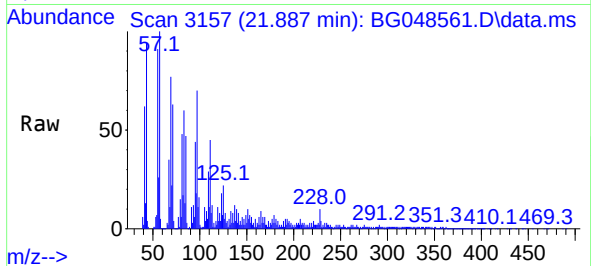
Tgt Ion:	228	Resp:	80486
Ion Ratio	Lower	Upper	
228	100		
226	35.3	20.6	31.0#
229	39.3	16.3	24.5#

Instrument :
BNA_G
ClientSampled :
V-211

Manual Integrations
APPROVED

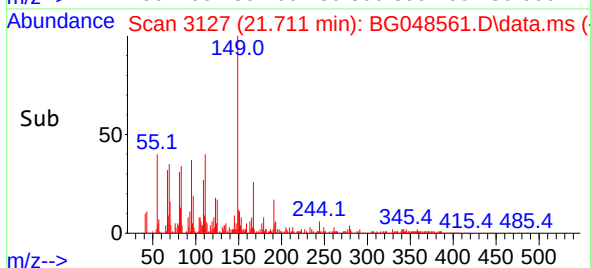
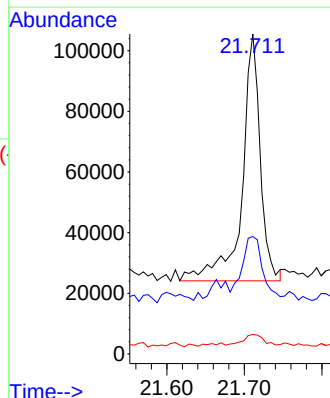
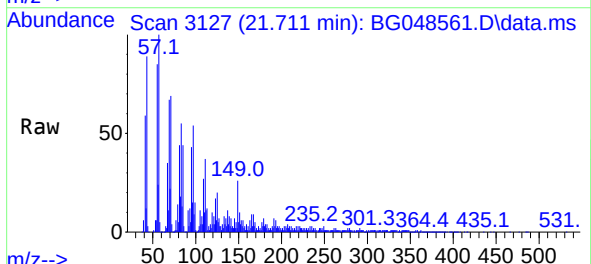
mohammad

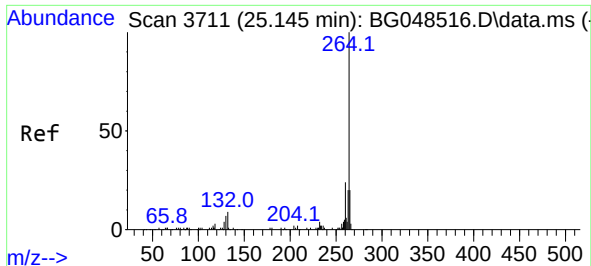
4/2/2021 11:06:11 AM



#84
Bis(2-ethylhexyl)phthalate
Concen: 24.41 ng
RT: 21.711 min Scan# 3127
Delta R.T. 0.029 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33

Tgt Ion:	149	Resp:	134049
Ion Ratio	Lower	Upper	
149	100		
167	36.7	22.4	33.6#
279	6.1	3.4	5.2#





#86
Perylene-d12
Concen: 20.00 ng
RT: 25.283 min Scan# 3735
Delta R.T. 0.135 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33

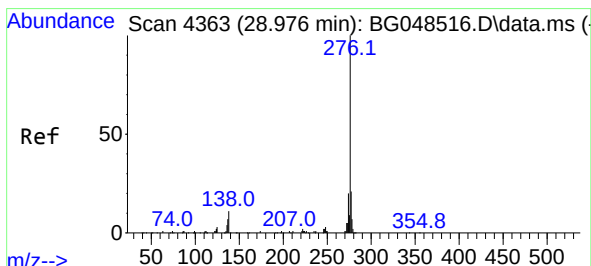
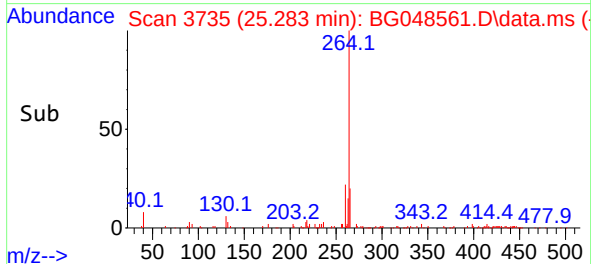
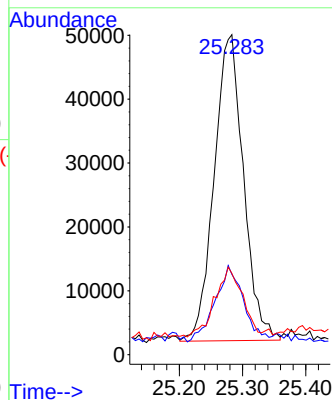
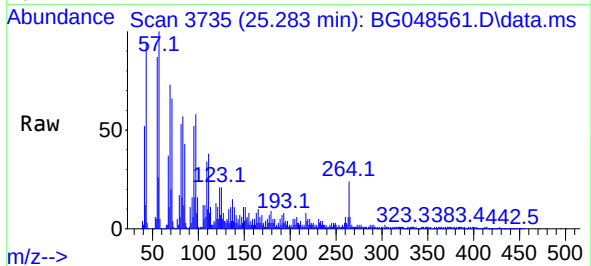
Tgt Ion:264 Resp: 154546
Ion Ratio Lower Upper
264 100
260 25.1 19.1 28.7
265 25.4 16.1 24.1#

Instrument :
BNA_G
ClientSampled :
V-211

Manual Integrations
APPROVED

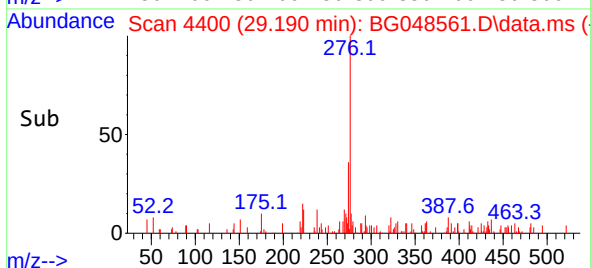
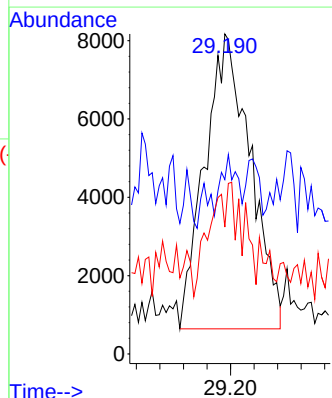
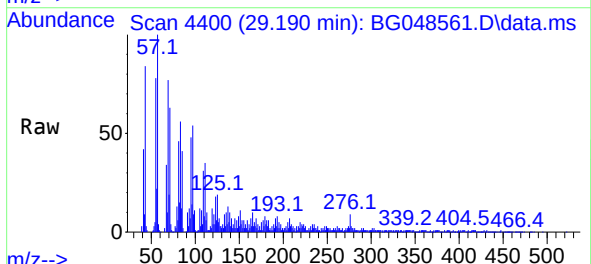
mohammad

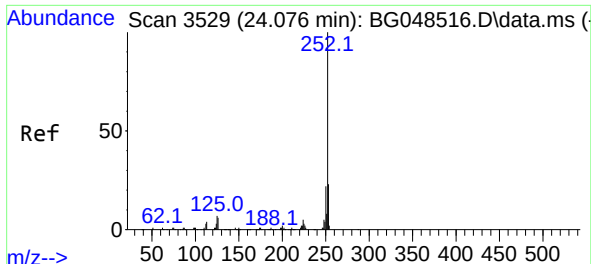
4/2/2021 11:06:11 AM



#87
Indeno(1,2,3-cd)pyrene
Concen: 3.75 ng
RT: 29.190 min Scan# 4400
Delta R.T. 0.205 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33

Tgt Ion:276 Resp: 40581
Ion Ratio Lower Upper
276 100
138 8.0 7.8 11.8
277 13.8 0.0 0.0#





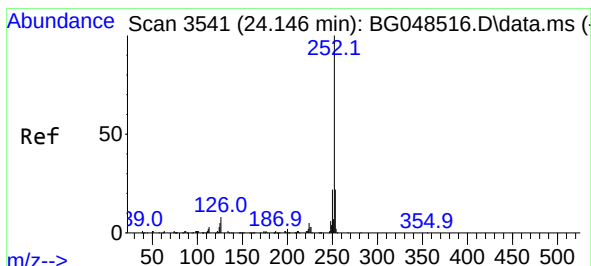
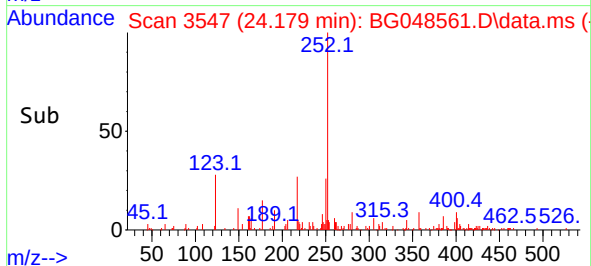
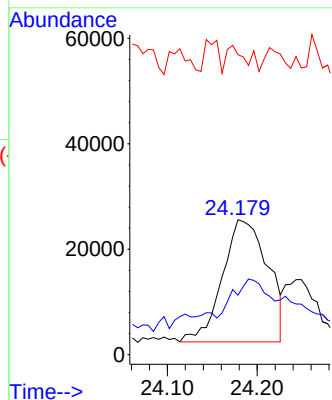
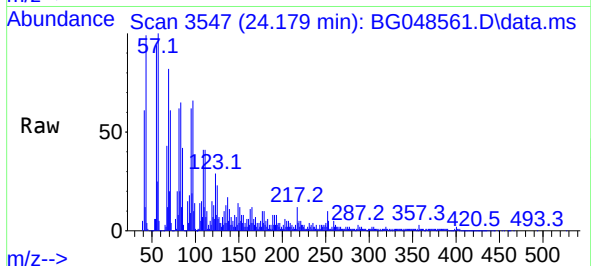
#88
Benzo(b)fluoranthene
Concen: 8.07 ng
RT: 24.179 min Scan# 3547
Delta R.T. 0.094 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33

Tgt Ion:252 Resp: 81042
Ion Ratio Lower Upper
252 100
253 44.2 18.2 27.4#
125 222.4 5.3 7.9#

Instrument :
BNA_G
ClientSampled :
V-211

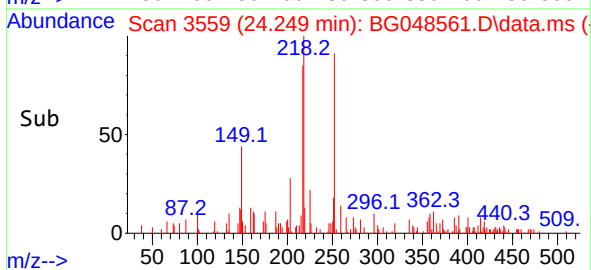
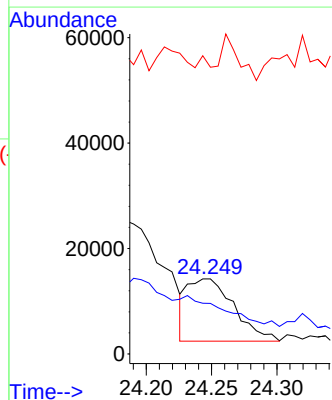
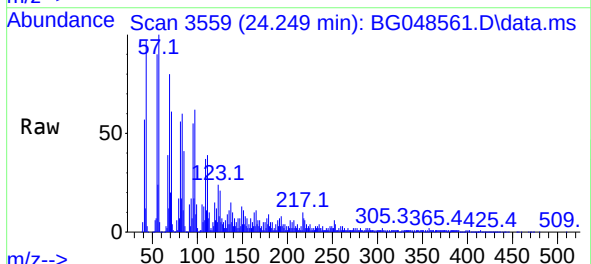
Manual Integrations
APPROVED

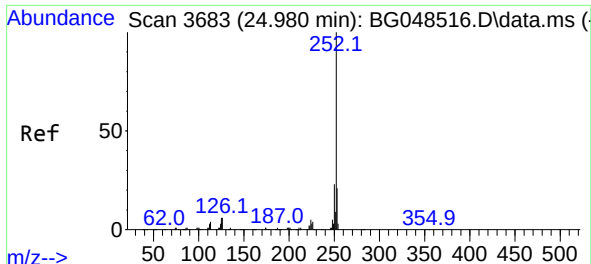
mohammad
4/2/2021 11:06:11 AM



#89
Benzo(k)fluoranthene
Concen: 3.05 ng m
RT: 24.249 min Scan# 3559
Delta R.T. 0.094 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33

Tgt Ion:252 Resp: 29399
Ion Ratio Lower Upper
252 100
253 67.3 17.9 26.9#
125 382.3 3.9 5.9#





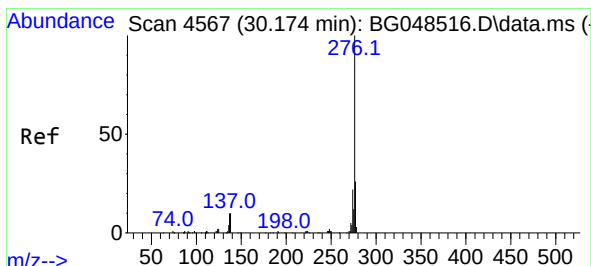
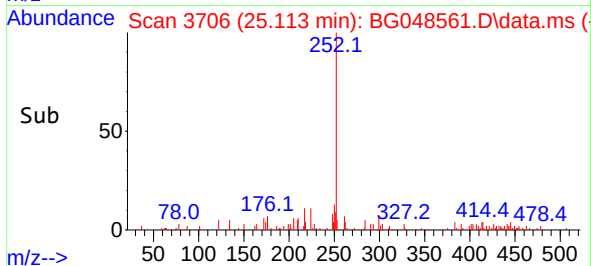
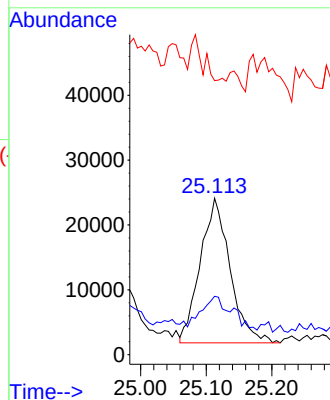
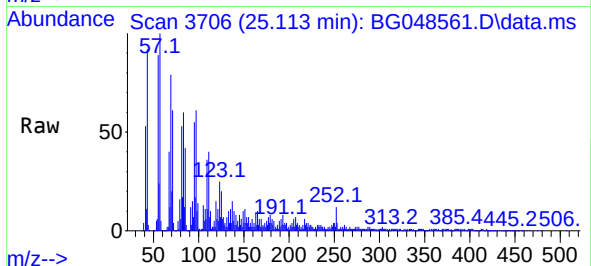
#90
Benzo(a)pyrene
Concen: 7.62 ng
RT: 25.113 min Scan# 3706
Delta R.T. 0.123 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33

Tgt Ion: 252 Resp: 70454
Ion Ratio Lower Upper
252 100
253 37.3 17.1 25.7#
125 175.2 4.4 6.6#

Instrument :
BNA_G
ClientSampled :
V-211

Manual Integrations
APPROVED

mohammad
4/2/2021 11:06:11 AM



#92
Benzo(g,h,i)perylene
Concen: 6.16 ng
RT: 30.412 min Scan# 4608
Delta R.T. 0.223 min
Lab File: BG048561.D
Acq: 2 Apr 2021 2:33

Tgt Ion: 276 Resp: 55784
Ion Ratio Lower Upper
276 100
277 39.8 20.4 30.6#
138 37.5 8.1 12.1#

