

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG081621\
 Data File : BG049865.D
 Acq On : 17 Aug 2021 1:17
 Operator : CG/JU
 Sample : M3407-08
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 26N

Manual Integrations
 APPROVED

mohammad

8/17/2021 1:20:58 PM

Quant Time: Aug 17 04:44:30 2021
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG080321.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 16 18:23:02 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.028	152	34057	20.000	ng	# 0.00
21) Naphthalene-d8	10.847	136	142242	20.000	ng	# 0.00
39) Acenaphthene-d10	14.683	164	90041	20.000	ng	0.00
64) Phenanthrene-d10	17.438	188	169201	20.000	ng	# 0.00
76) Chrysene-d12	21.721	240	149510	20.000	ng	0.00
86) Perylene-d12	25.005	264	159228	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.584	112	213114	112.174	ng	0.00
7) Phenol-d6	7.193	99	294359	102.354	ng	0.00
23) Nitrobenzene-d5	9.197	82	219459	68.273	ng	0.00
42) 2,4,6-Tribromophenol	16.175	330	131975	99.718	ng	0.00
45) 2-Fluorobiphenyl	13.303	172	441195	71.298	ng	0.00
79) Terphenyl-d14	20.047	244	525575	63.845	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.900	128	15521	2.084	ng	# 95
49) Acenaphthylene	14.407	152	16607	2.046	ng	99
52) Acenaphthene	14.742	154	17422	3.562	ng	90
55) Dibenzofuran	15.083	168	26330	3.319	ng	99
58) Fluorene	15.729	166	38371	5.950	ng	96
71) Phenanthrene	17.479	178	424743	47.714	ng	97
72) Anthracene	17.568	178	102576	11.733	ng	98
73) Carbazole	17.838	167	33510	4.047	ng	# 85
75) Fluoranthene	19.494	202	694058	63.360	ng	99
78) Pyrene	19.859	202	582886	57.186	ng	98
81) Benzo(a)anthracene	21.703	228	309436	31.780	ng	98
83) Chrysene	21.768	228	249033m	26.757	ng	
87) Indeno(1,2,3-cd)pyrene	28.758	276	170587	14.855	ng	# 98
88) Benzo(b)fluoranthene	23.965	252	337987	32.365	ng	# 95
89) Benzo(k)fluoranthene	24.023	252	117156m	12.027	ng	
90) Benzo(a)pyrene	24.852	252	261514	27.671	ng	97
91) Dibenzo(a,h)anthracene	28.799	278	47192	4.877	ng	# 96
92) Benzo(g,h,i)perylene	29.945	276	165284	17.435	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG081621\
Data File : BG049865.D
Acq On : 17 Aug 2021 1:17
Operator : CG/JU
Sample : M3407-08
Misc :
ALS Vial : 14 Sample Multiplier: 1

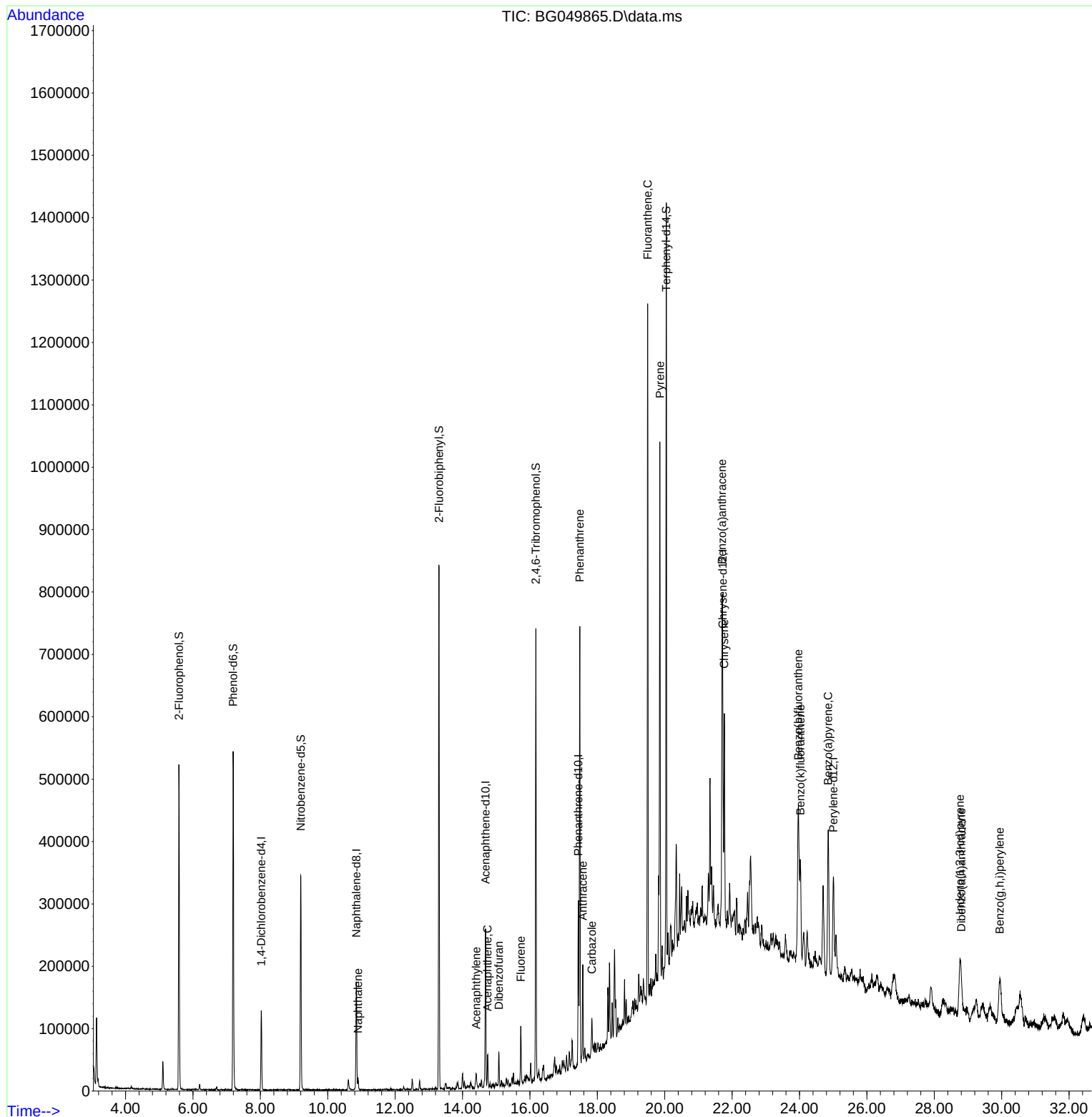
Instrument :
BNA_G
ClientSampled :
26N

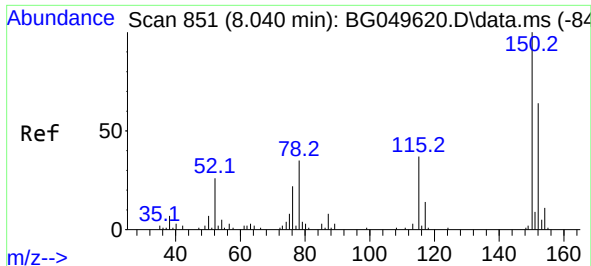
Manual Integrations
APPROVED

mohammad

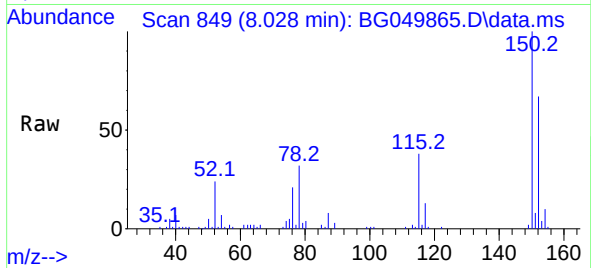
Quant Time: Aug 17 04:44:30 2021
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG080321.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 16 18:23:02 2021
Response via : Initial Calibration

8/17/2021 1:20:58 PM

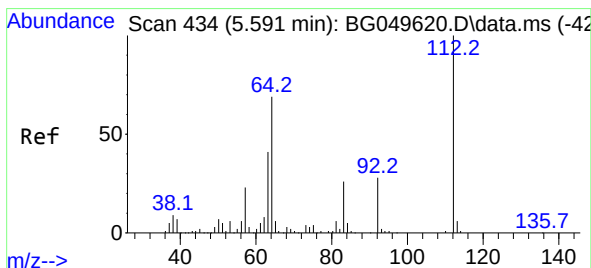
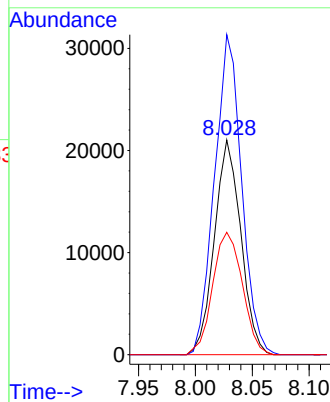
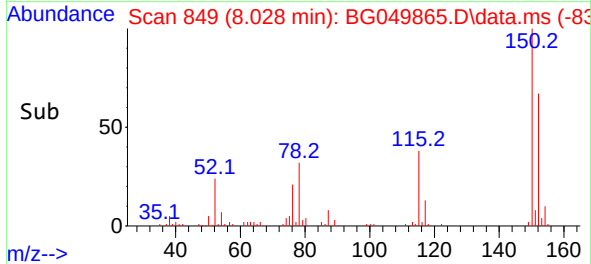




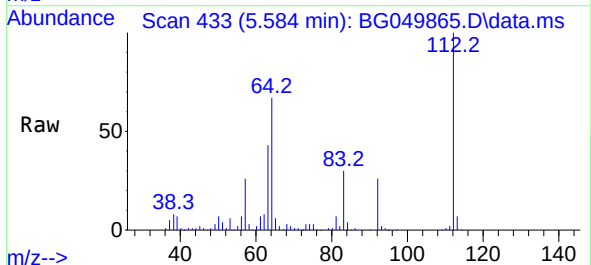
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.028 min Scan# 849
Delta R.T. -0.000 min
Lab File: BG049865.D
Acq: 17 Aug 2021 1:17



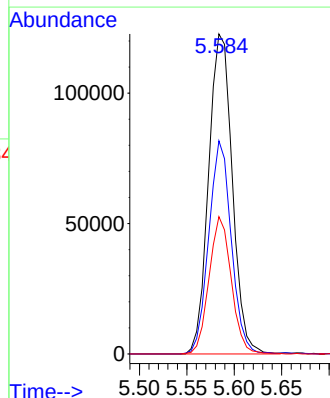
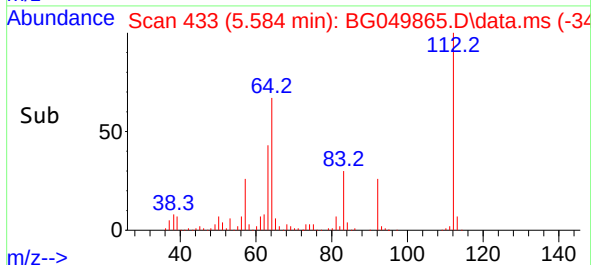
Tgt Ion:152 Resp: 34057
Ion Ratio Lower Upper
152 100
150 149.0 119.4 179.0
115 57.0 60.2 90.4#



#5
2-Fluorophenol
Concen: 112.174 ng
RT: 5.584 min Scan# 433
Delta R.T. 0.005 min
Lab File: BG049865.D
Acq: 17 Aug 2021 1:17



Tgt Ion:112 Resp: 213114
Ion Ratio Lower Upper
112 100
64 66.6 46.7 70.1
63 42.9 35.3 52.9

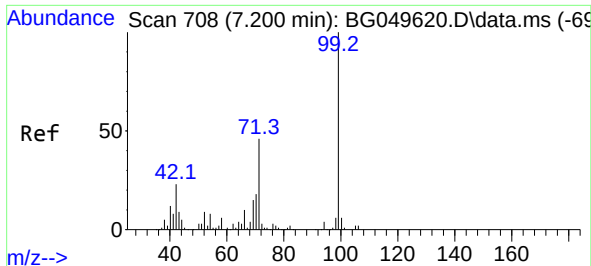


Instrument :
BNA_G
ClientSampled :
26N

Manual Integrations
APPROVED

mohammad

8/17/2021 1:20:58 PM



#7
Phenol-d6
Concen: 102.354 ng
RT: 7.193 min Scan# 707
Delta R.T. -0.000 min
Lab File: BG049865.D
Acq: 17 Aug 2021 1:17

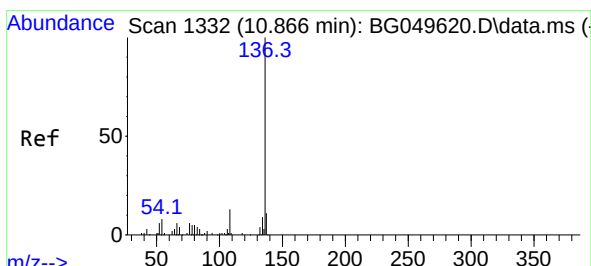
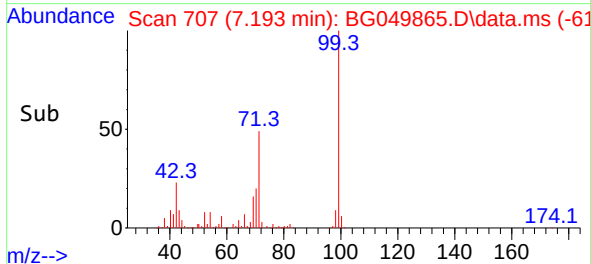
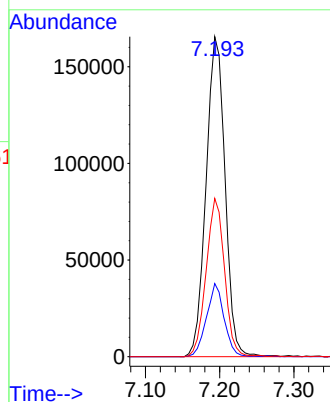
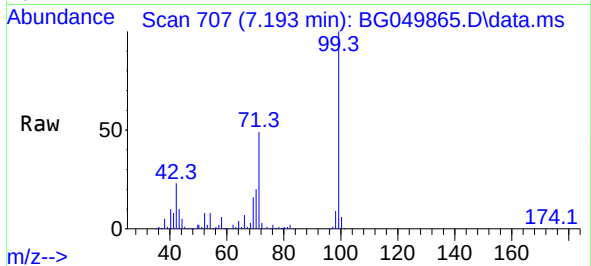
Tgt Ion:	99	Resp:	294359
Ion	Ratio	Lower	Upper
99	100		
42	22.9	20.5	30.7
71	49.4	41.5	62.3

Instrument :
BNA_G
ClientSampleId :
26N

Manual Integrations
APPROVED

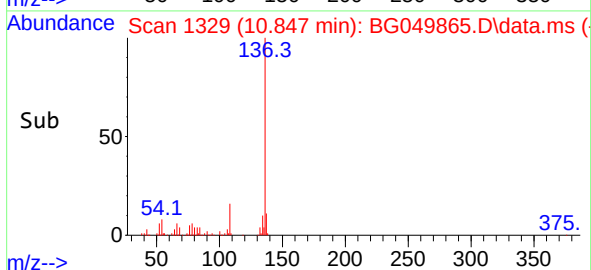
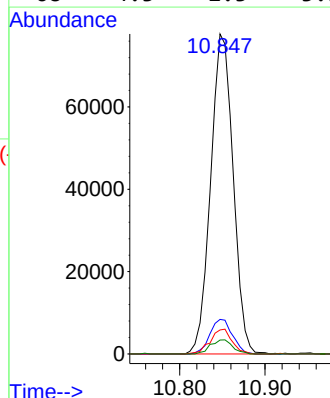
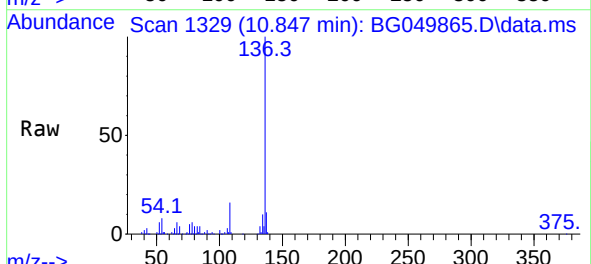
mohammad

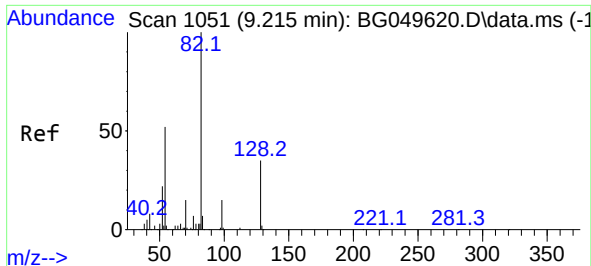
8/17/2021 1:20:58 PM



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.847 min Scan# 1329
Delta R.T. -0.000 min
Lab File: BG049865.D
Acq: 17 Aug 2021 1:17

Tgt Ion:	136	Resp:	142242
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.2	12.2
54	7.5	5.5	8.3
68	4.3	2.3	3.5





#23
Nitrobenzene-d5
Concen: 68.273 ng
RT: 9.197 min Scan# 1048
Delta R.T. -0.000 min
Lab File: BG049865.D
Acq: 17 Aug 2021 1:17

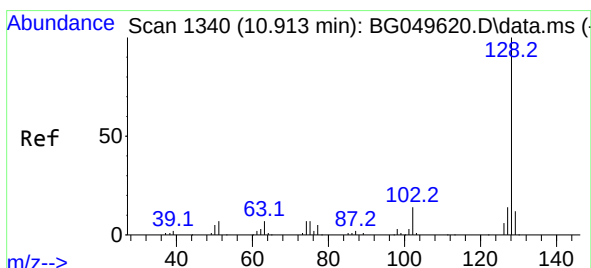
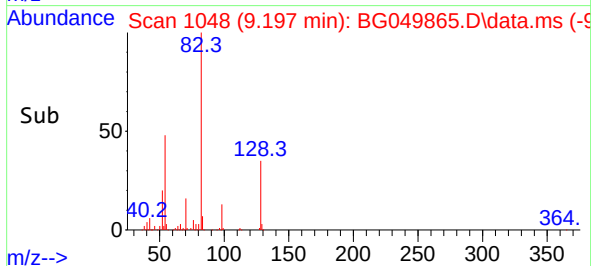
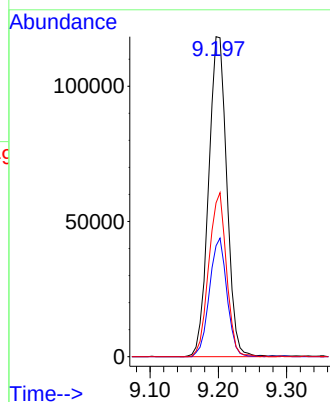
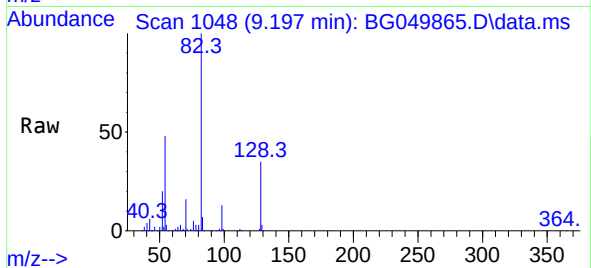
Tgt Ion:	82	Resp:	219459
Ion	Ratio	Lower	Upper
82	100		
128	34.7	29.8	44.6
54	48.0	45.8	68.8

Instrument :
BNA_G
ClientSampled :
26N

Manual Integrations
APPROVED

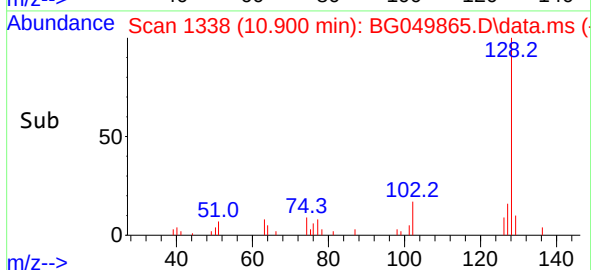
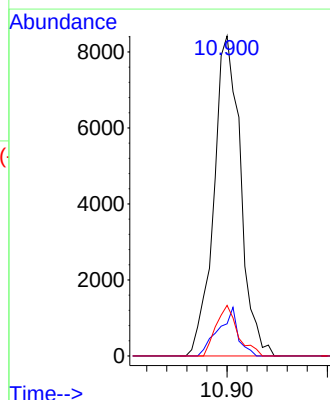
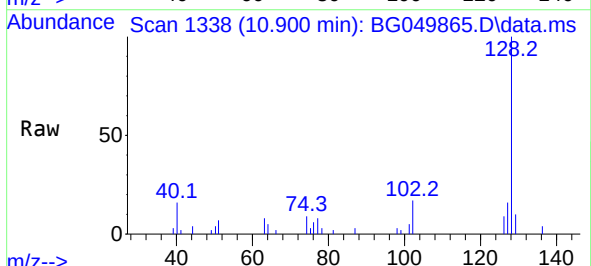
mohammad

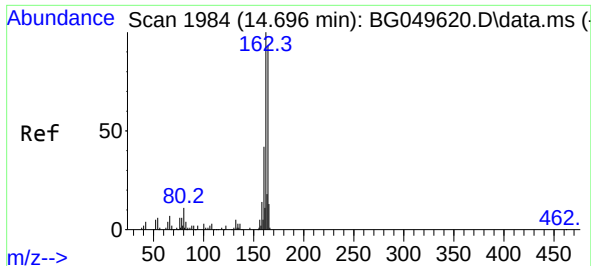
8/17/2021 1:20:58 PM



#31
Naphthalene
Concen: 2.084 ng
RT: 10.900 min Scan# 1338
Delta R.T. -0.000 min
Lab File: BG049865.D
Acq: 17 Aug 2021 1:17

Tgt Ion:	128	Resp:	15521
Ion	Ratio	Lower	Upper
128	100		
129	10.0	8.5	12.7
127	15.8	10.2	15.4





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.683 min Scan# 1982
Delta R.T. -0.000 min
Lab File: BG049865.D
Acq: 17 Aug 2021 1:17

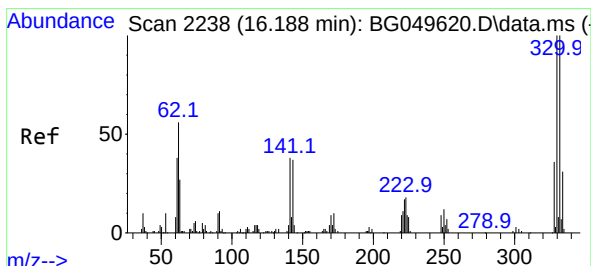
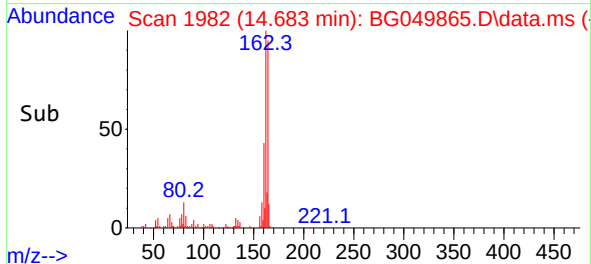
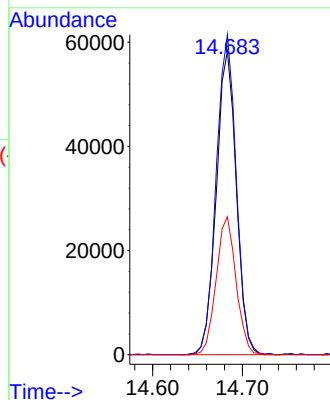
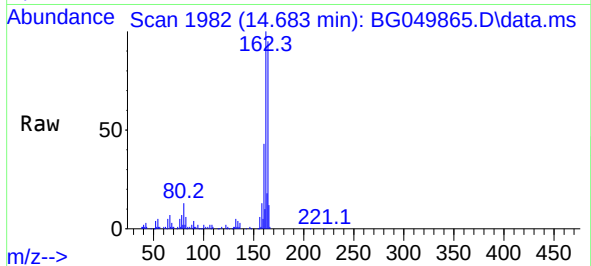
Tgt Ion:164 Resp: 90041
Ion Ratio Lower Upper
164 100
162 105.5 81.4 122.0
160 45.5 34.9 52.3

Instrument :
BNA_G
ClientSampleId :
26N

Manual Integrations
APPROVED

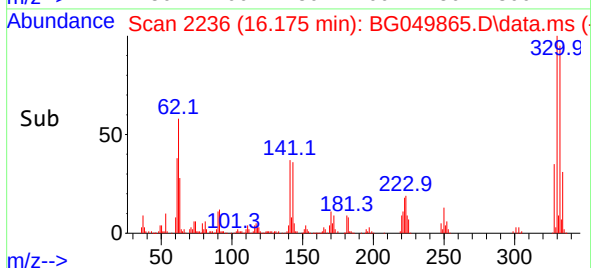
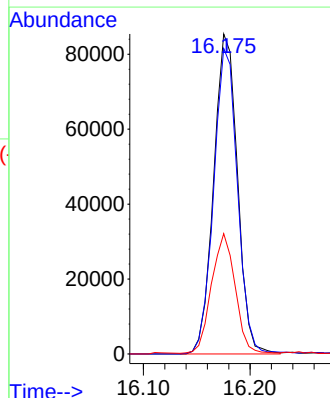
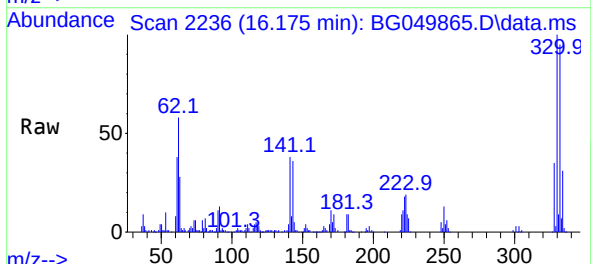
mohammad

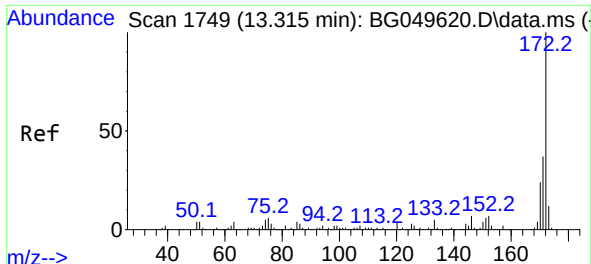
8/17/2021 1:20:58 PM



#42
2,4,6-Tribromophenol
Concen: 99.718 ng
RT: 16.175 min Scan# 2236
Delta R.T. -0.000 min
Lab File: BG049865.D
Acq: 17 Aug 2021 1:17

Tgt Ion:330 Resp: 131975
Ion Ratio Lower Upper
330 100
332 96.0 77.3 115.9
141 37.1 35.6 53.4





#45
2-Fluorobiphenyl
Concen: 71.298 ng
RT: 13.303 min Scan# 1747
Delta R.T. -0.000 min
Lab File: BG049865.D
Acq: 17 Aug 2021 1:17

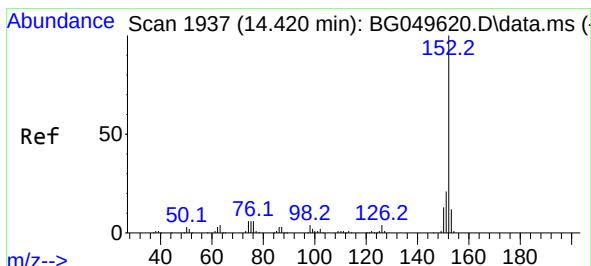
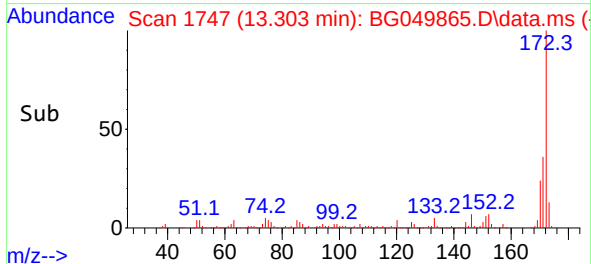
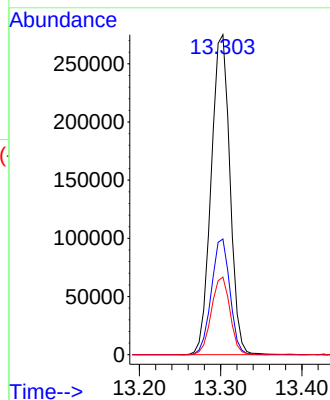
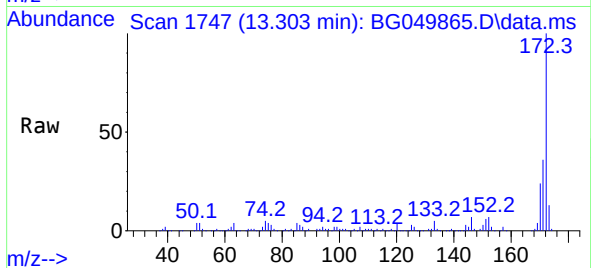
Tgt Ion:	172	Resp:	441195
Ion Ratio	Lower	Upper	
172	100		
171	36.2	28.6	43.0
170	24.3	18.6	27.8

Instrument :
BNA_G
ClientSampled :
26N

Manual Integrations
APPROVED

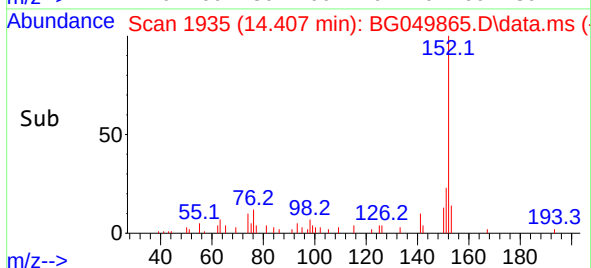
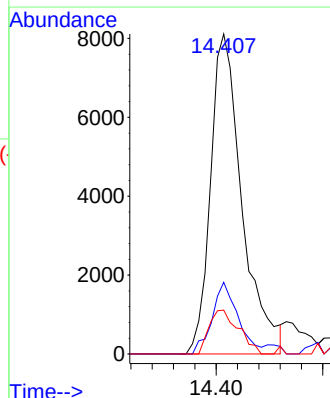
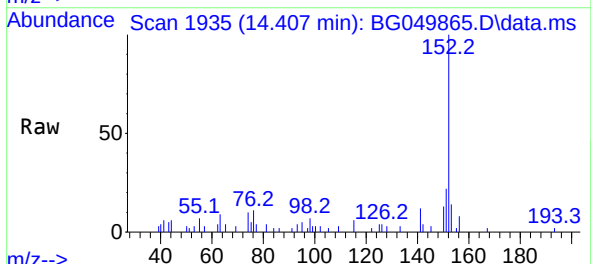
mohammad

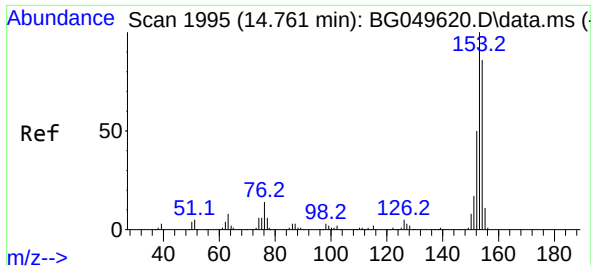
8/17/2021 1:20:58 PM



#49
Acenaphthylene
Concen: 2.046 ng
RT: 14.407 min Scan# 1935
Delta R.T. -0.000 min
Lab File: BG049865.D
Acq: 17 Aug 2021 1:17

Tgt Ion:	152	Resp:	16607
Ion Ratio	Lower	Upper	
152	100		
151	22.4	18.2	27.4
153	13.7	11.7	17.5





#52
Acenaphthene
Concen: 3.562 ng
RT: 14.742 min Scan# 1992
Delta R.T. -0.006 min
Lab File: BG049865.D
Acq: 17 Aug 2021 1:17

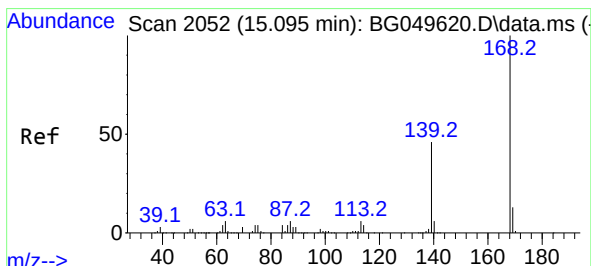
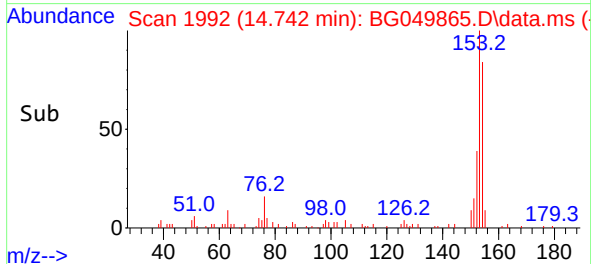
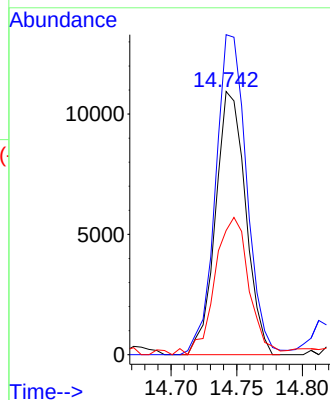
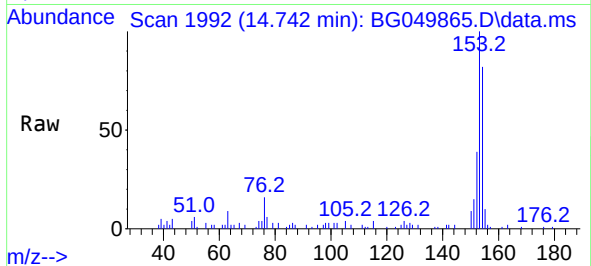
Tgt Ion:	154	Resp:	17422
Ion	Ratio	Lower	Upper
154	100		
153	121.6	87.0	130.4
152	47.2	40.1	60.1

Instrument :
BNA_G
ClientSampled :
26N

Manual Integrations
APPROVED

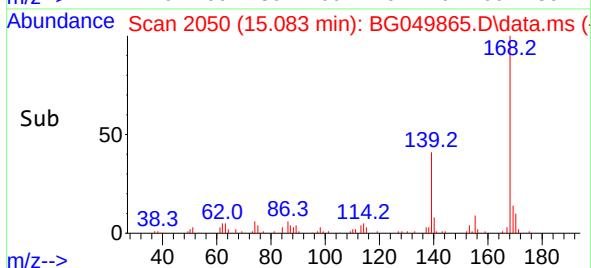
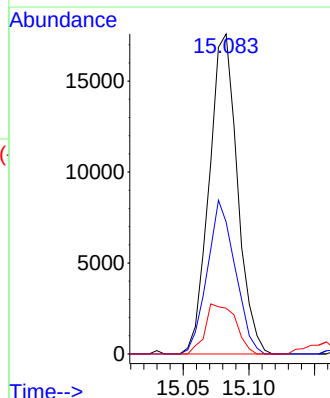
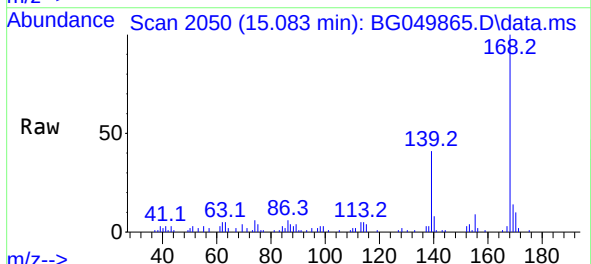
mohammad

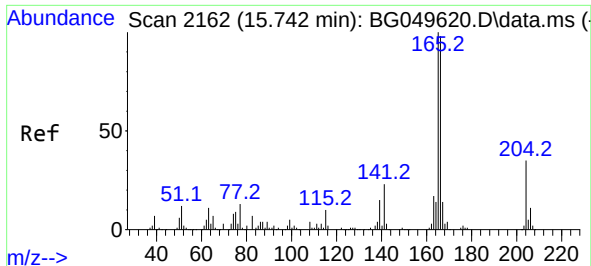
8/17/2021 1:20:58 PM



#55
Dibenzofuran
Concen: 3.319 ng
RT: 15.083 min Scan# 2050
Delta R.T. -0.000 min
Lab File: BG049865.D
Acq: 17 Aug 2021 1:17

Tgt Ion:	168	Resp:	26330
Ion	Ratio	Lower	Upper
168	100		
139	41.3	33.4	50.2
169	14.3	12.3	18.5





#58
Fluorene
Concen: 5.950 ng
RT: 15.729 min Scan# 2160
Delta R.T. -0.000 min
Lab File: BG049865.D
Acq: 17 Aug 2021 1:17

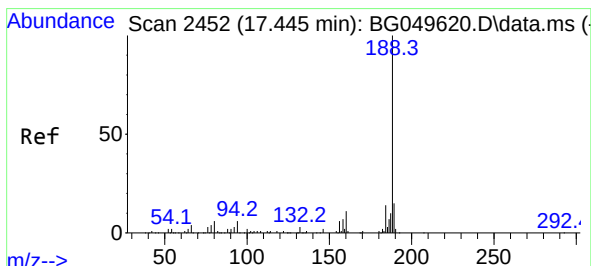
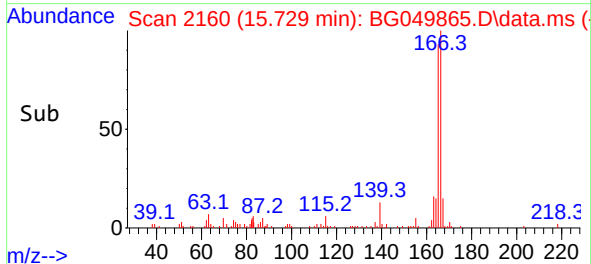
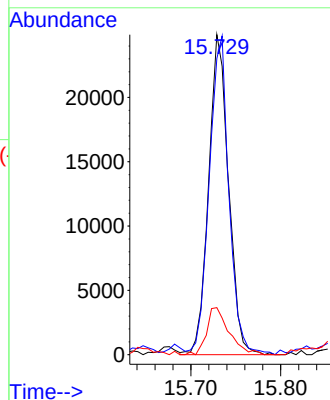
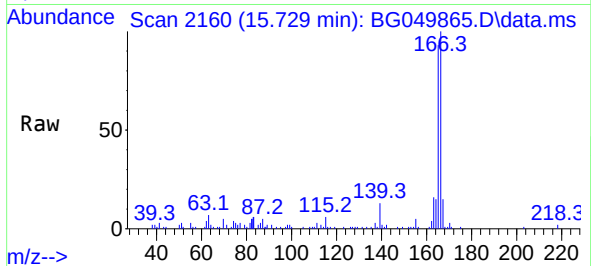
Tgt Ion:166 Resp: 38371
Ion Ratio Lower Upper
166 100
165 92.5 77.7 116.5
167 14.7 10.8 16.2

Instrument :
BNA_G
ClientSampleId :
26N

Manual Integrations
APPROVED

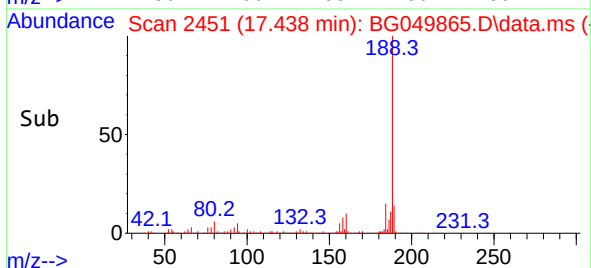
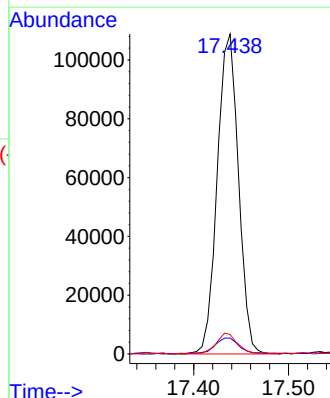
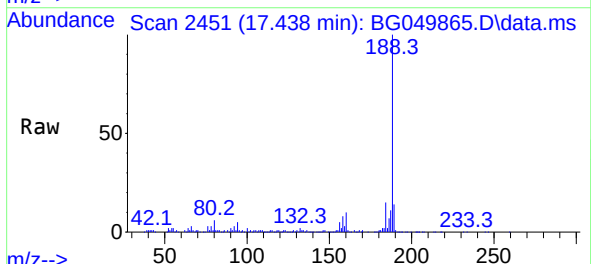
mohammad

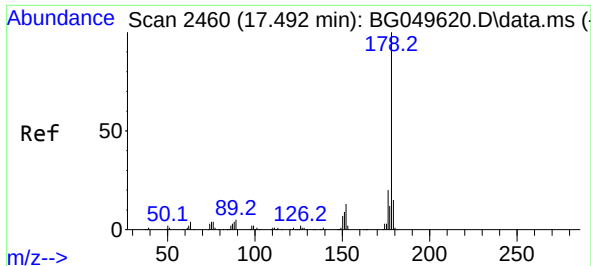
8/17/2021 1:20:58 PM



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.438 min Scan# 2451
Delta R.T. -0.000 min
Lab File: BG049865.D
Acq: 17 Aug 2021 1:17

Tgt Ion:188 Resp: 169201
Ion Ratio Lower Upper
188 100
94 5.0 5.4 8.0#
80 6.1 3.7 5.5#





#71
Phenanthrene
Concen: 47.714 ng
RT: 17.479 min Scan# 2458
Delta R.T. -0.000 min
Lab File: BG049865.D
Acq: 17 Aug 2021 1:17

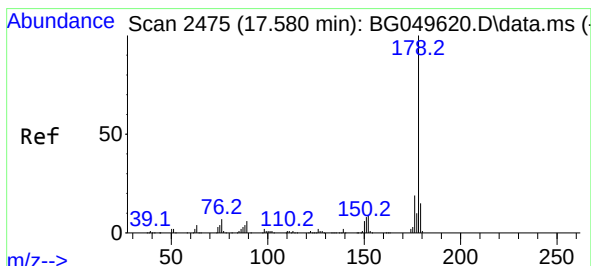
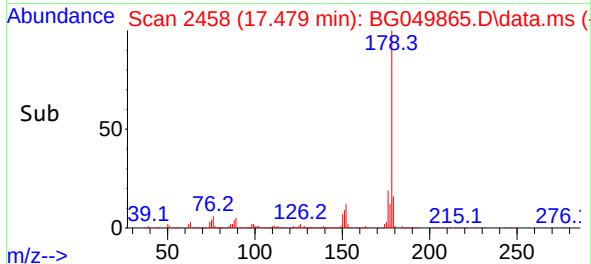
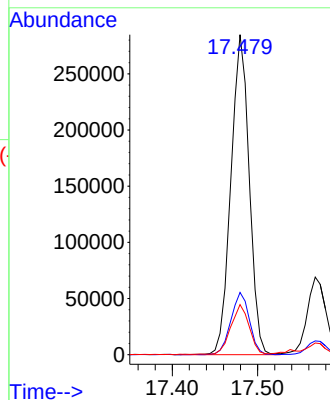
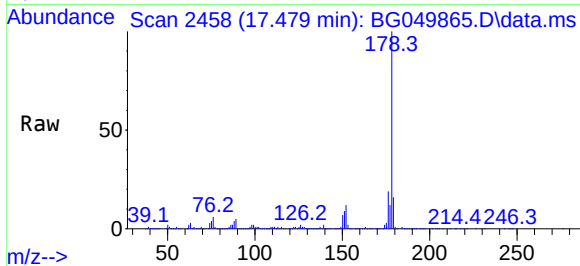
Tgt Ion:178 Resp: 424743
Ion Ratio Lower Upper
178 100
176 19.4 16.0 24.0
179 15.6 14.2 21.4

Instrument :
BNA_G
ClientSampled :
26N

Manual Integrations
APPROVED

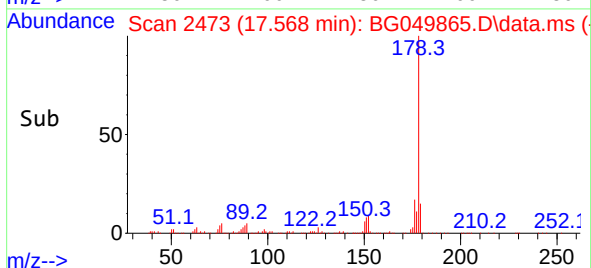
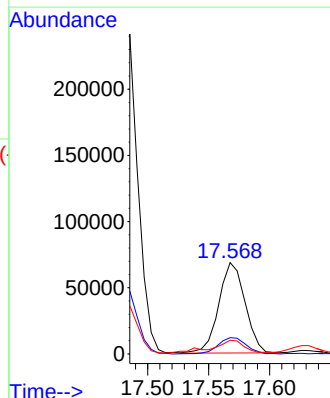
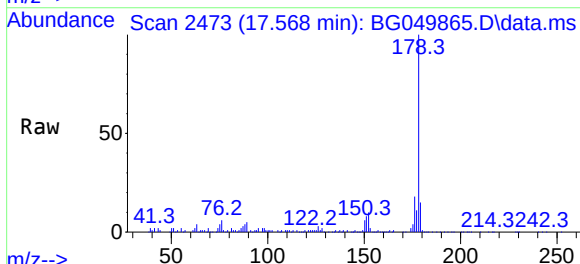
mohammad

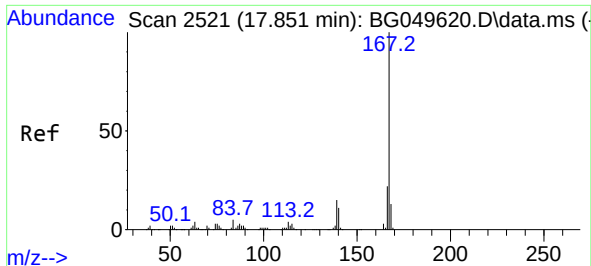
8/17/2021 1:20:58 PM



#72
Anthracene
Concen: 11.733 ng
RT: 17.568 min Scan# 2473
Delta R.T. -0.000 min
Lab File: BG049865.D
Acq: 17 Aug 2021 1:17

Tgt Ion:178 Resp: 102576
Ion Ratio Lower Upper
178 100
176 17.8 14.6 21.8
179 15.0 13.4 20.0





#73
 Carbazole
 Concen: 4.047 ng
 RT: 17.838 min Scan# 2519
 Delta R.T. -0.000 min
 Lab File: BG049865.D
 Acq: 17 Aug 2021 1:17

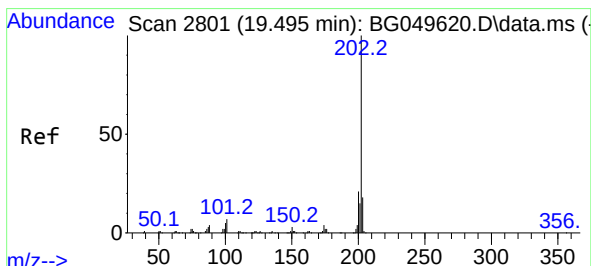
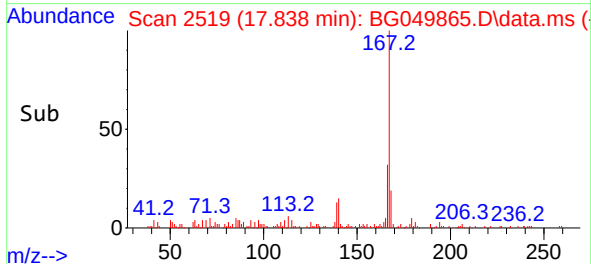
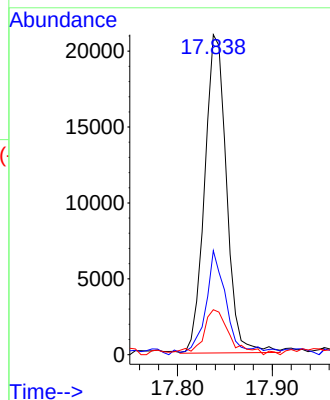
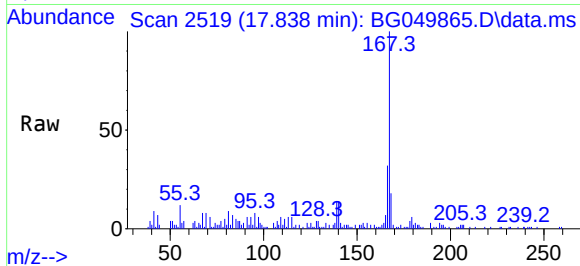
Tgt Ion:167 Resp: 33510
 Ion Ratio Lower Upper
 167 100
 166 32.5 17.4 26.2#
 139 14.0 10.7 16.1

Instrument :
 BNA_G
 ClientSampled :
 26N

Manual Integrations
 APPROVED

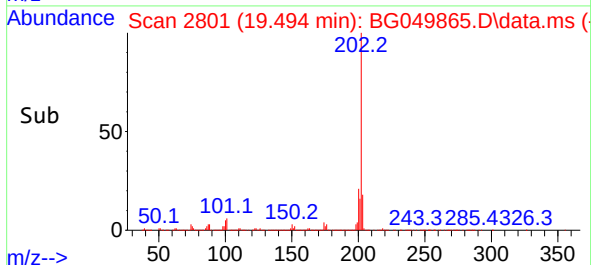
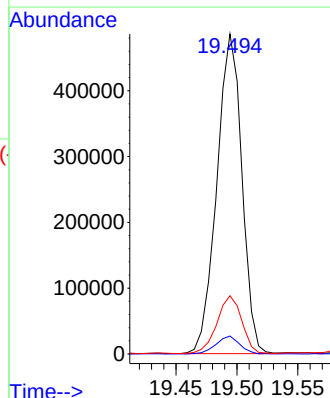
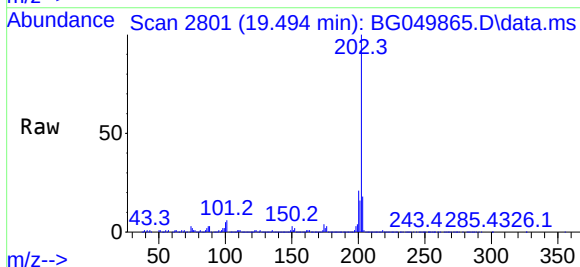
mohammad

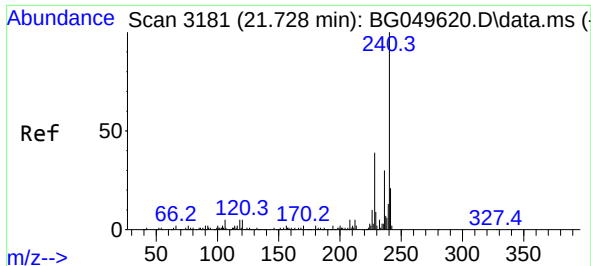
8/17/2021 1:20:58 PM



#75
 Fluoranthene
 Concen: 63.360 ng
 RT: 19.494 min Scan# 2801
 Delta R.T. 0.005 min
 Lab File: BG049865.D
 Acq: 17 Aug 2021 1:17

Tgt Ion:202 Resp: 694058
 Ion Ratio Lower Upper
 202 100
 101 5.6 0.0 24.7
 203 18.2 0.0 38.5





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.721 min Scan# 3180
Delta R.T. -0.000 min
Lab File: BG049865.D
Acq: 17 Aug 2021 1:17

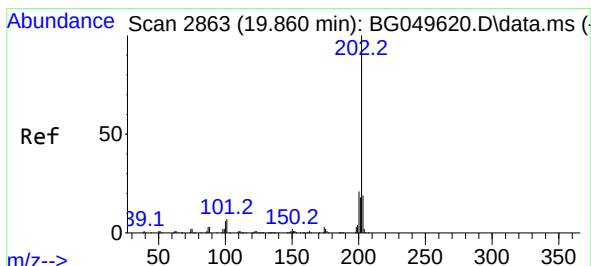
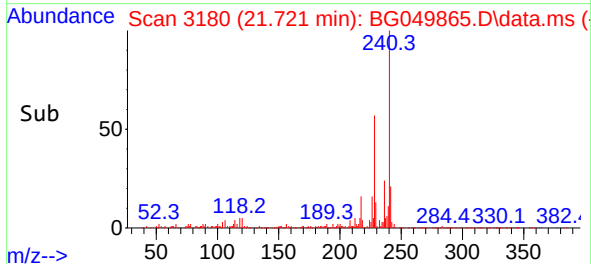
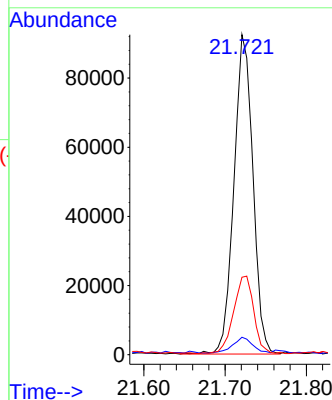
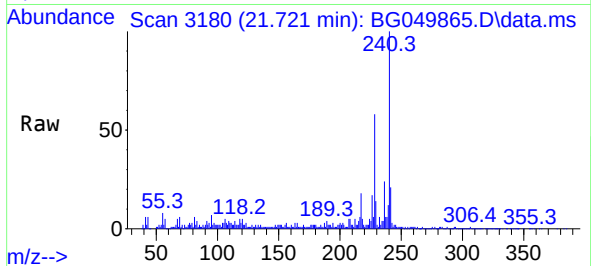
Tgt Ion:240 Resp: 149510
Ion Ratio Lower Upper
240 100
120 5.5 4.2 6.2
236 24.2 21.8 32.6

Instrument :
BNA_G
ClientSampled :
26N

Manual Integrations
APPROVED

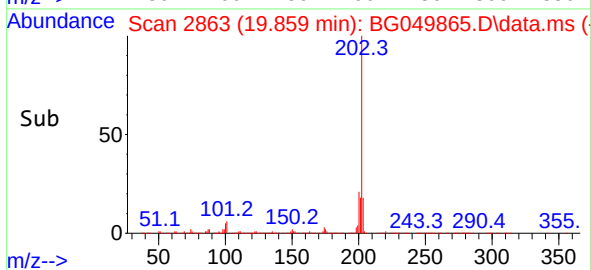
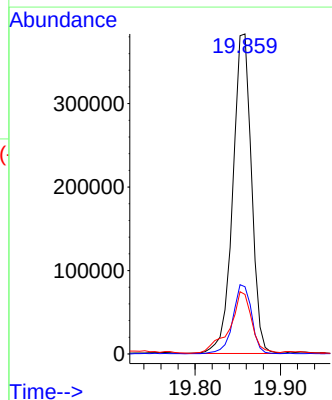
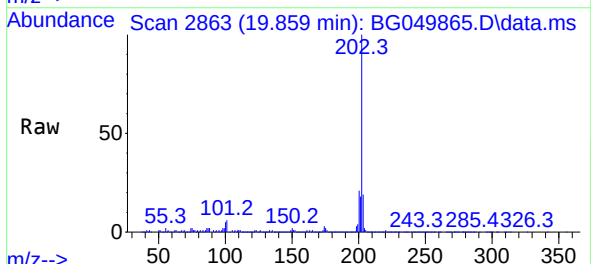
mohammad

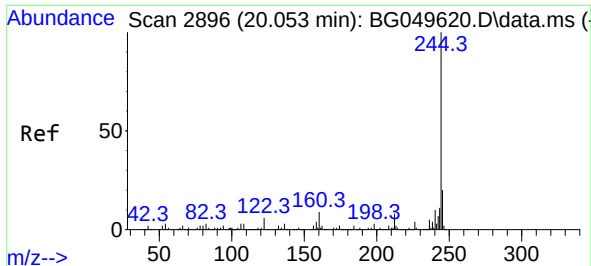
8/17/2021 1:20:58 PM



#78
Pyrene
Concen: 57.186 ng
RT: 19.859 min Scan# 2863
Delta R.T. 0.005 min
Lab File: BG049865.D
Acq: 17 Aug 2021 1:17

Tgt Ion:202 Resp: 582886
Ion Ratio Lower Upper
202 100
200 21.0 15.8 23.8
203 18.6 14.6 21.8





#79
Terphenyl-d14
Concen: 63.845 ng
RT: 20.047 min Scan# 2895
Delta R.T. -0.000 min
Lab File: BG049865.D
Acq: 17 Aug 2021 1:17

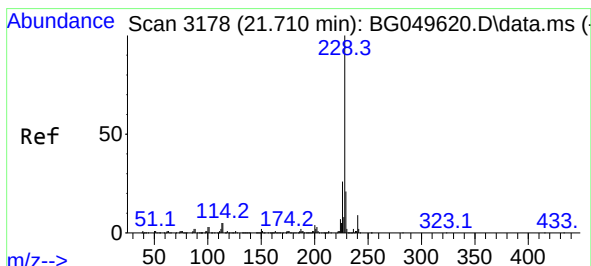
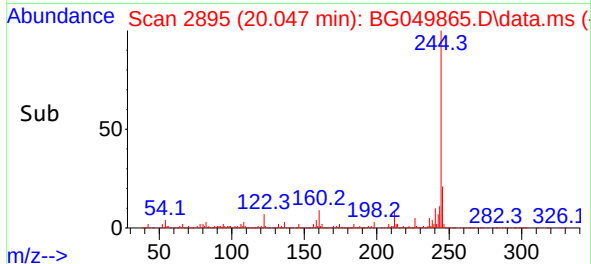
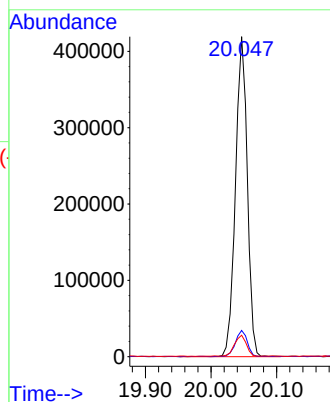
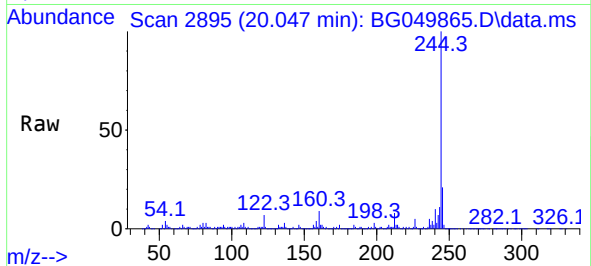
Tgt Ion:	244	Resp:	525575
Ion Ratio	Lower	Upper	
244	100		
212	8.2	6.9	10.3
122	6.7	5.0	7.6

Instrument :
BNA_G
ClientSampled :
26N

Manual Integrations
APPROVED

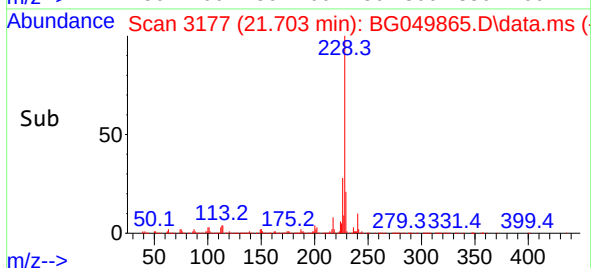
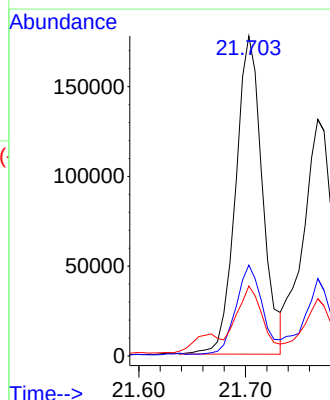
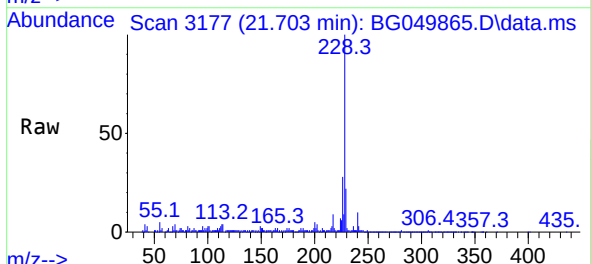
mohammad

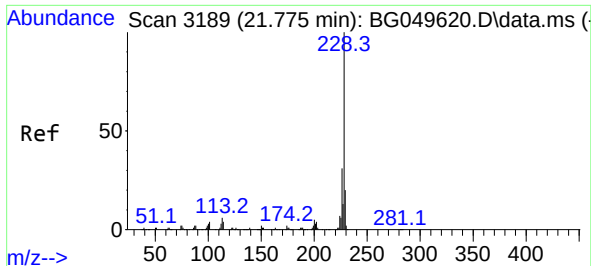
8/17/2021 1:20:58 PM



#81
Benzo(a)anthracene
Concen: 31.780 ng
RT: 21.703 min Scan# 3177
Delta R.T. 0.005 min
Lab File: BG049865.D
Acq: 17 Aug 2021 1:17

Tgt Ion:	228	Resp:	309436
Ion Ratio	Lower	Upper	
228	100		
226	28.4	22.7	34.1
229	21.9	16.0	24.0





#83
Chrysene
Concen: 26.757 ng m
RT: 21.768 min Scan# 3188
Delta R.T. -0.000 min
Lab File: BG049865.D
Acq: 17 Aug 2021 1:17

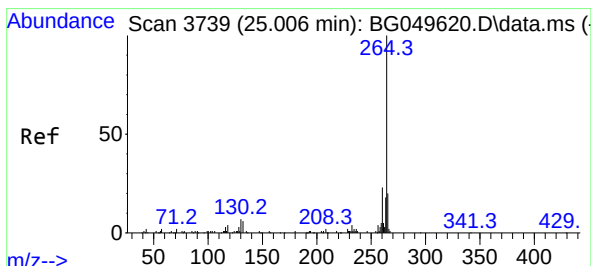
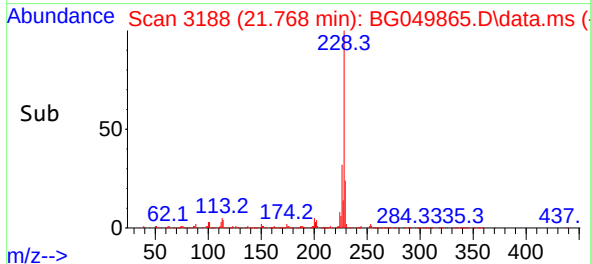
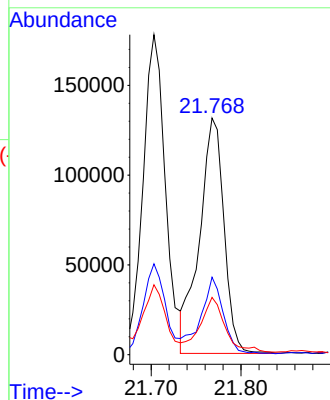
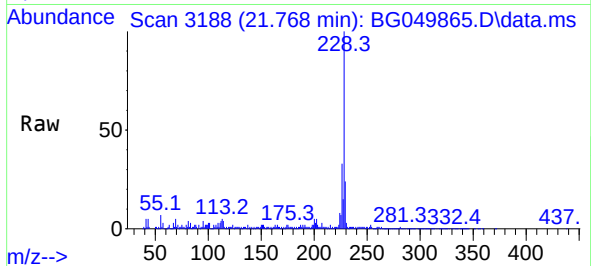
Tgt Ion:228 Resp: 249033
Ion Ratio Lower Upper
228 100
226 32.7 23.1 34.7
229 24.2 15.3 22.9#

Instrument :
BNA_G
ClientSampled :
26N

Manual Integrations
APPROVED

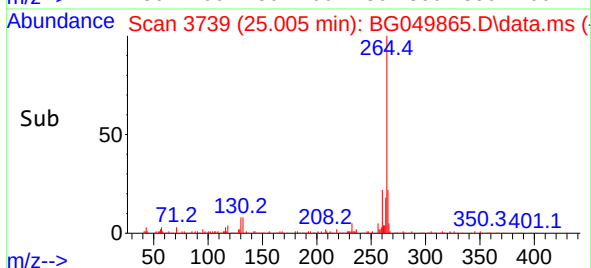
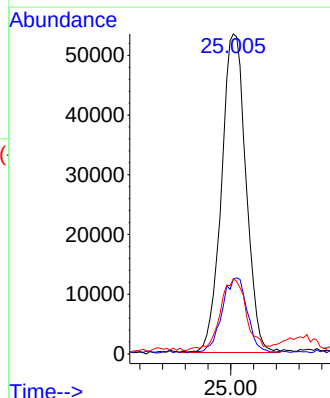
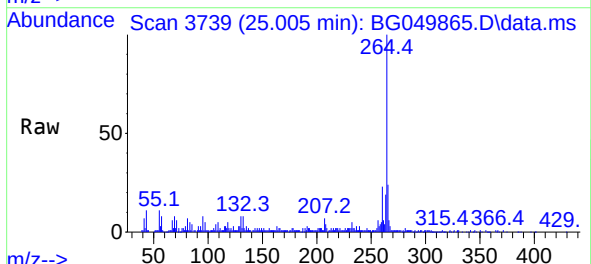
mohammad

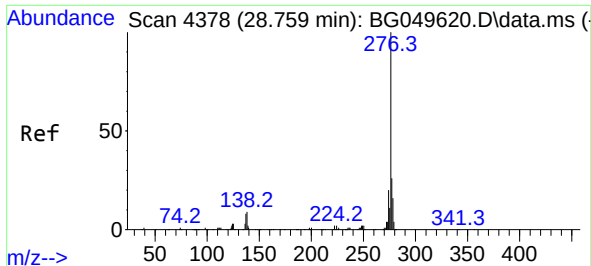
8/17/2021 1:20:58 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 25.005 min Scan# 3739
Delta R.T. 0.017 min
Lab File: BG049865.D
Acq: 17 Aug 2021 1:17

Tgt Ion:264 Resp: 159228
Ion Ratio Lower Upper
264 100
260 23.3 19.4 29.2
265 23.5 16.9 25.3





#87
Indeno(1,2,3-cd)pyrene
Concen: 14.855 ng
RT: 28.758 min Scan# 4378
Delta R.T. 0.023 min
Lab File: BG049865.D
Acq: 17 Aug 2021 1:17

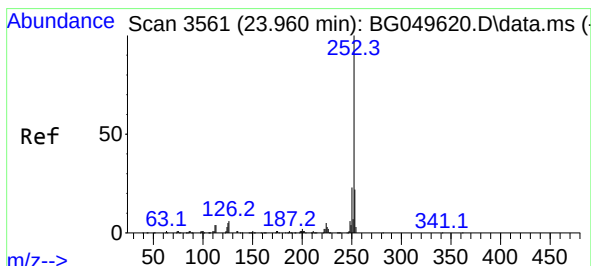
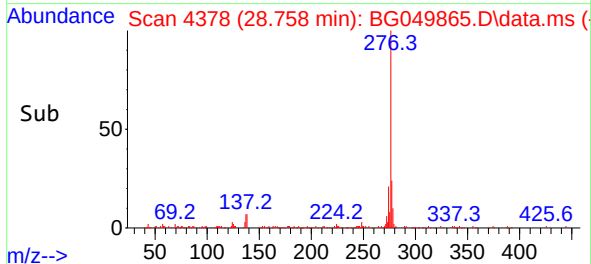
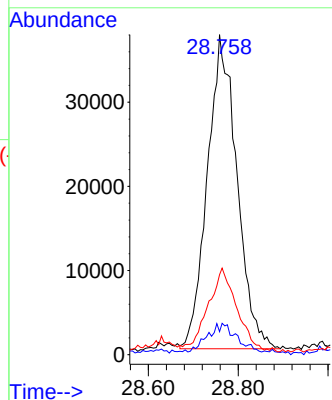
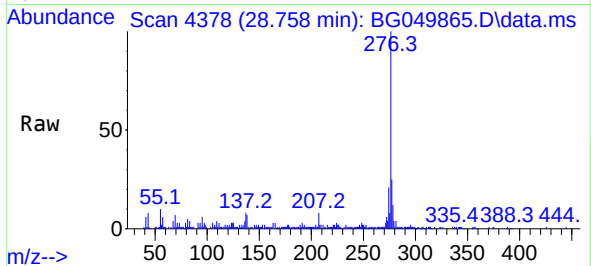
Tgt Ion: 276 Resp: 170587
Ion Ratio Lower Upper
276 100
138 8.8 5.1 7.7#
277 24.9 19.8 29.6

Instrument :
BNA_G
ClientSampled :
26N

Manual Integrations
APPROVED

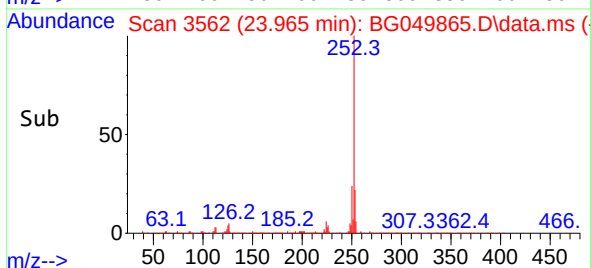
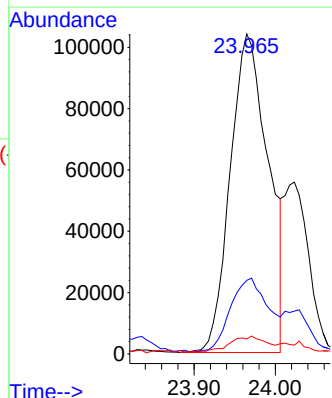
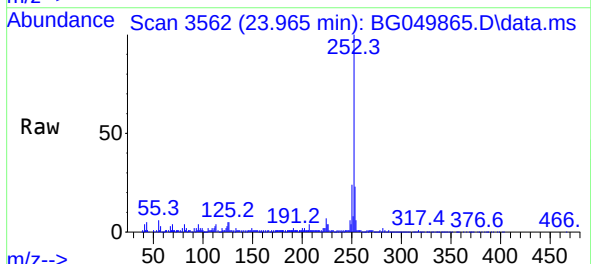
mohammad

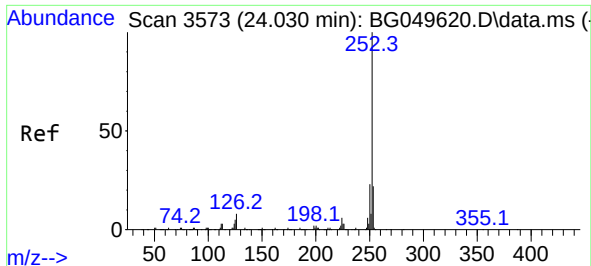
8/17/2021 1:20:58 PM



#88
Benzo(b)fluoranthene
Concen: 32.365 ng
RT: 23.965 min Scan# 3562
Delta R.T. 0.011 min
Lab File: BG049865.D
Acq: 17 Aug 2021 1:17

Tgt Ion: 252 Resp: 337987
Ion Ratio Lower Upper
252 100
253 23.0 16.2 24.4
125 4.7 3.0 4.4#





#89

Benzo(k)fluoranthene

Concen: 12.027 ng m

RT: 24.023 min Scan# 3572

Delta R.T. 0.005 min

Lab File: BG049865.D

Acq: 17 Aug 2021 1:17

Tgt Ion:	252	Resp:	117156
Ion Ratio	Lower	Upper	
252	100		
253	24.9	18.0	27.0
125	5.1	3.1	4.7#

Instrument :

BNA_G

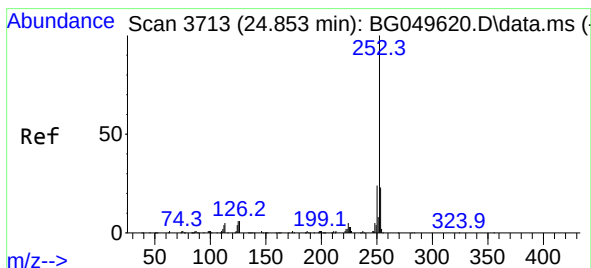
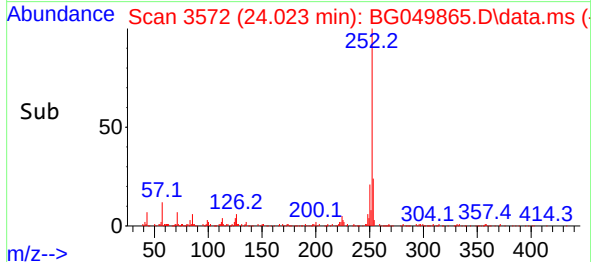
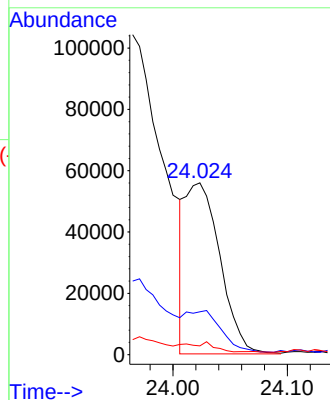
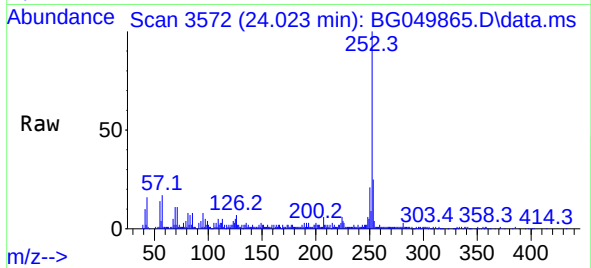
ClientSampleId :

26N

Manual Integrations
APPROVED

mohammad

8/17/2021 1:20:58 PM



#90

Benzo(a)pyrene

Concen: 27.671 ng

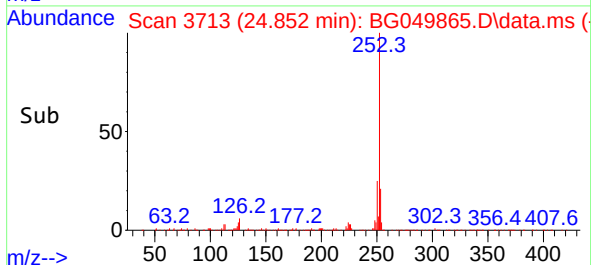
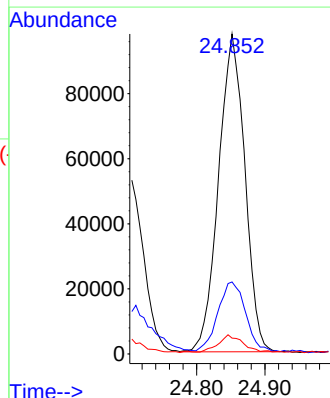
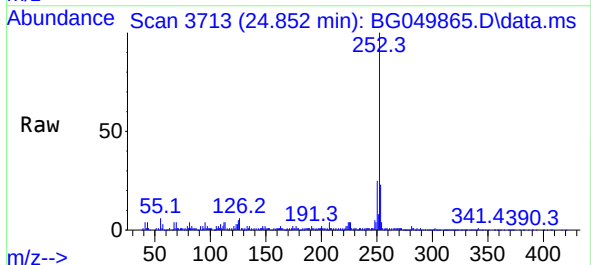
RT: 24.852 min Scan# 3713

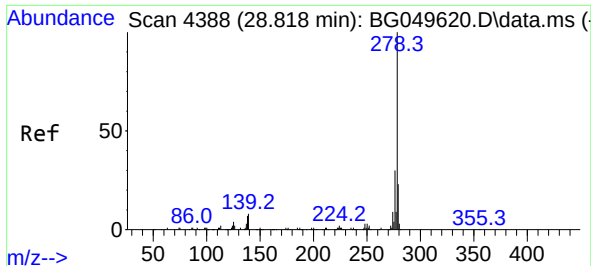
Delta R.T. 0.011 min

Lab File: BG049865.D

Acq: 17 Aug 2021 1:17

Tgt Ion:	252	Resp:	261514
Ion Ratio	Lower	Upper	
252	100		
253	22.5	16.6	25.0
125	5.0	3.5	5.3





#91
Dibenzo(a,h)anthracene
Concen: 4.877 ng
RT: 28.799 min Scan# 4385
Delta R.T. -0.000 min
Lab File: BG049865.D
Acq: 17 Aug 2021 1:17

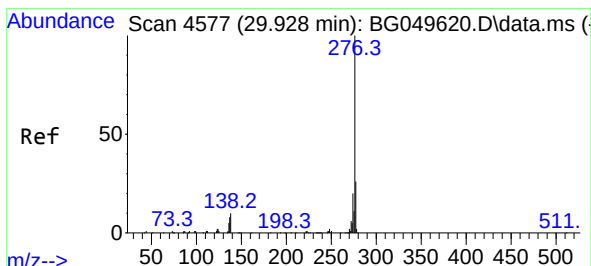
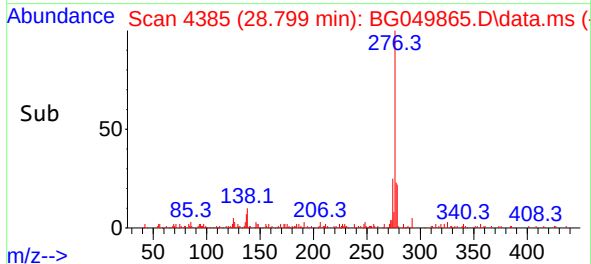
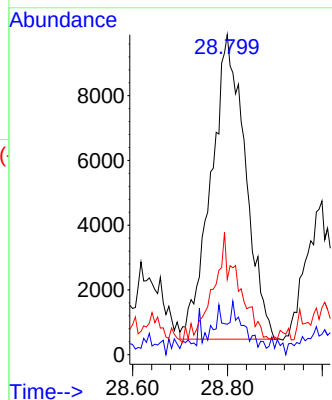
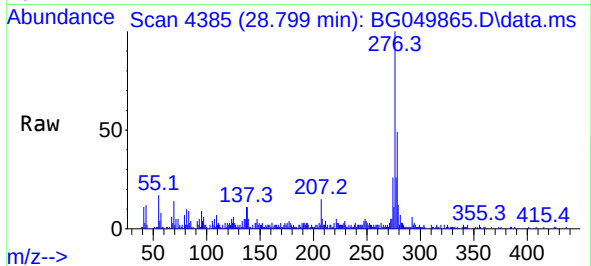
Tgt Ion: 278 Resp: 47192
Ion Ratio Lower Upper
278 100
139 9.5 4.6 6.8#
279 23.6 17.9 26.9

Instrument :
BNA_G
ClientSampled :
26N

Manual Integrations
APPROVED

mohammad

8/17/2021 1:20:58 PM



#92
Benzo(g,h,i)perylene
Concen: 17.435 ng
RT: 29.945 min Scan# 4580
Delta R.T. 0.029 min
Lab File: BG049865.D
Acq: 17 Aug 2021 1:17

Tgt Ion: 276 Resp: 165284
Ion Ratio Lower Upper
276 100
277 23.1 18.4 27.6
138 9.3 7.0 10.6

