

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG121922\
 Data File : BG056017.D
 Acq On : 19 Dec 2022 17:27
 Operator : CG/JU
 Sample : N6037-16
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 RB-25-(1-3)

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 12/20/2022
 Supervised By :mohammad ahmed 12/20/2022

Quant Time: Dec 20 01:07:03 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG121322.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 20 01:01:12 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.366	152	10052	20.000	ng	0.00
21) Naphthalene-d8	11.198	136	37506	20.000	ng	# 0.00
39) Acenaphthene-d10	14.976	164	32374	20.000	ng	0.00
64) Phenanthrene-d10	17.708	188	83536	20.000	ng	0.00
76) Chrysene-d12	22.021	240	85020	20.000	ng	0.00
86) Perylene-d12	25.511	264	105044	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.887	112	46386	108.221	ng	0.00
7) Phenol-d6	7.497	99	54705	99.234	ng	0.00
23) Nitrobenzene-d5	9.541	82	36752	68.477	ng	0.00
42) 2,4,6-Tribromophenol	16.451	330	79427	101.747	ng	0.00
45) 2-Fluorobiphenyl	13.601	172	133565	57.862	ng	0.00
79) Terphenyl-d14	20.288	244	291243	60.543	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	17.755	178	83965	19.180	ng	99
72) Anthracene	17.843	178	14454	3.337	ng	98
75) Fluoranthene	19.741	202	119563	19.504	ng	100
78) Pyrene	20.105	202	188203	36.583	ng	99
81) Benzo(a)anthracene	21.997	228	82244	13.747	ng	97
83) Chrysene	22.068	228	78830	14.059	ng	97
87) Indeno(1,2,3-cd)pyrene	29.524	276	34282	4.058	ng	97
88) Benzo(b)fluoranthene	24.400	252	70353	10.349	ng	100
89) Benzo(k)fluoranthene	24.459	252	22884m	3.374	ng	
90) Benzo(a)pyrene	25.346	252	56458	9.825	ng	99
92) Benzo(g,h,i)perylene	30.775	276	34186	5.001	ng	94

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

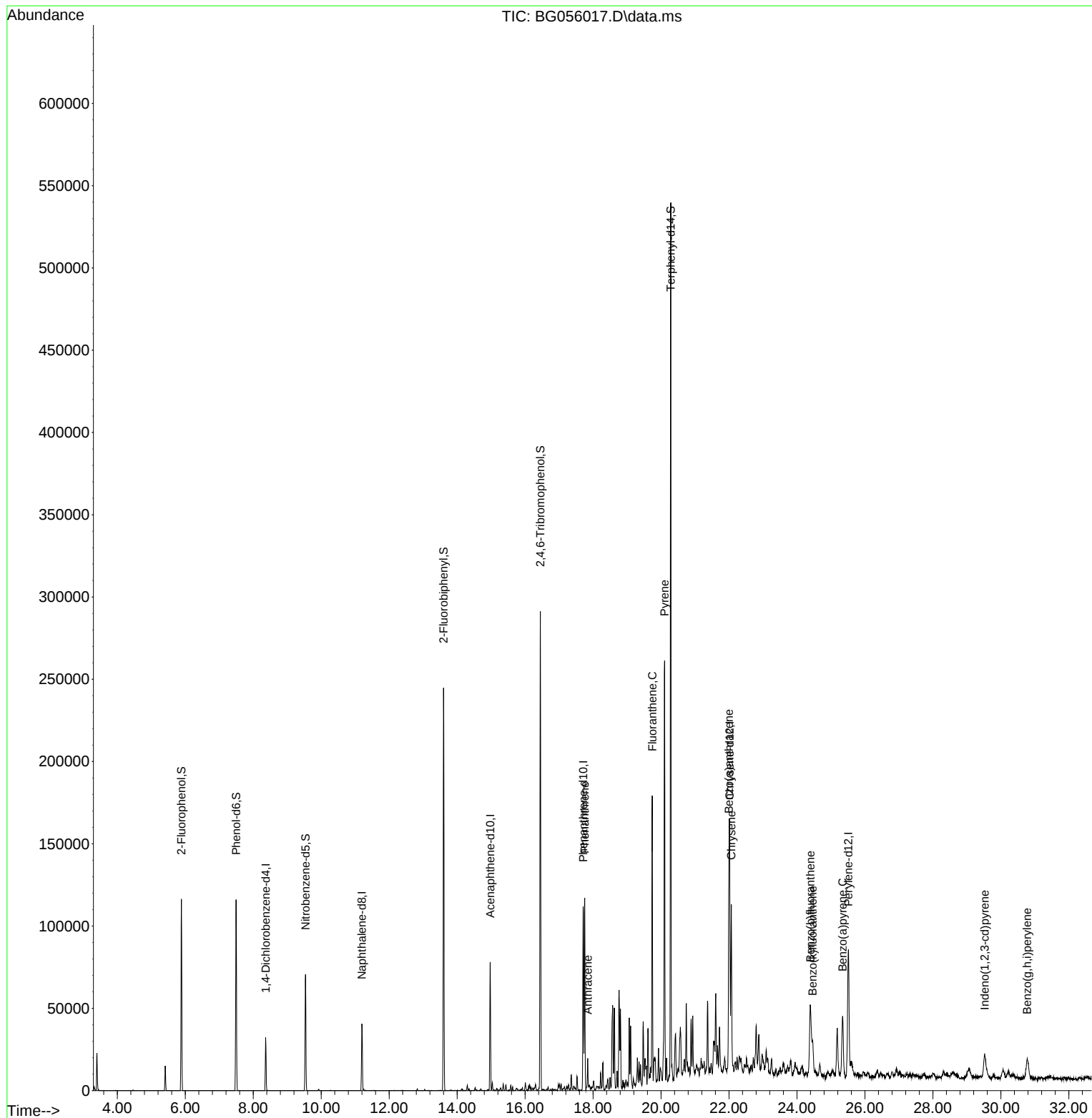
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG121922\
Data File : BG056017.D
Acq On : 19 Dec 2022 17:27
Operator : CG/JU
Sample : N6037-16
Misc :
ALS Vial : 10 Sample Multiplier: 1

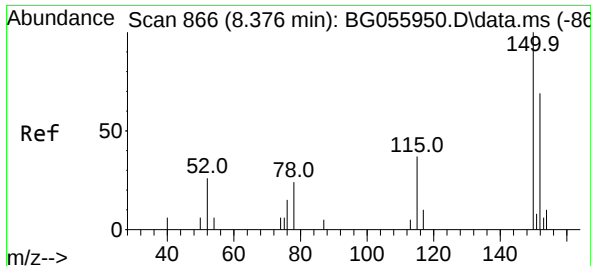
Instrument :
BNA_G
ClientSampleId :
RB-25-(1-3)

Quant Time: Dec 20 01:07:03 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG121322.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 20 01:01:12 2022
Response via : Initial Calibration

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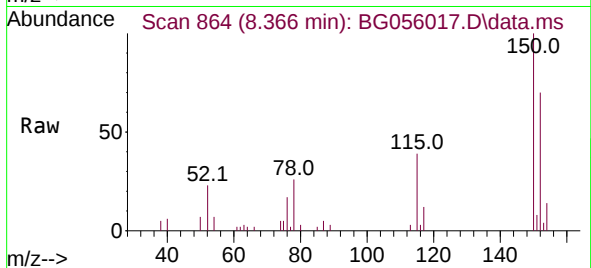
Reviewed By : Christian Giraldo 12/20/2022
Supervised By : mohammad ahmed 12/20/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.366 min Scan# 866
Delta R.T. 0.002 min
Lab File: BG056017.D
Acq: 19 Dec 2022 17:27

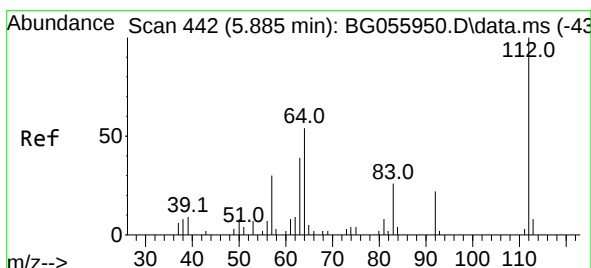
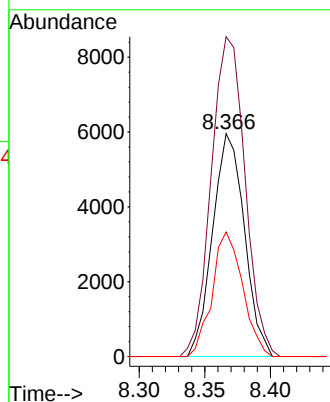
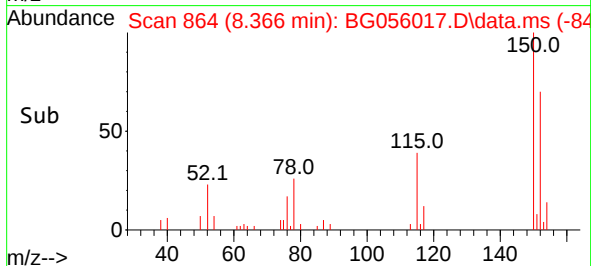
Instrument :
BNA_G
ClientSampleId :
RB-25-(1-3)



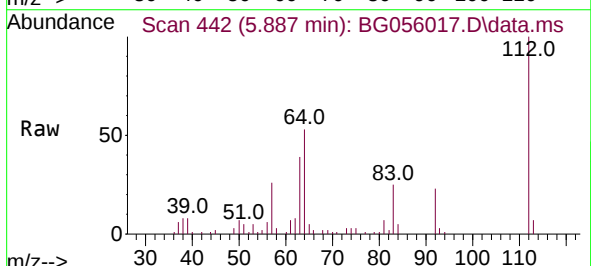
Tgt Ion:152 Resp: 10052
Ion Ratio Lower Upper
152 100
150 143.5 115.7 173.5
115 55.8 43.0 64.4

Manual Integrations
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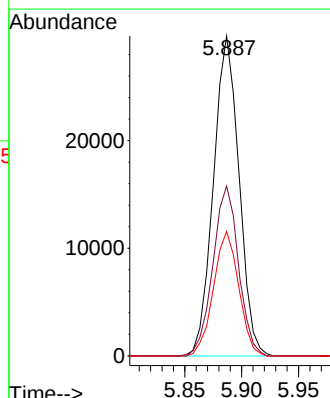
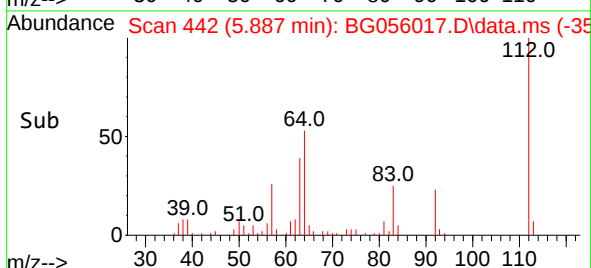
Reviewed By :Christian Giraldo 12/20/2022
Supervised By :mohammad ahmed 12/20/2022

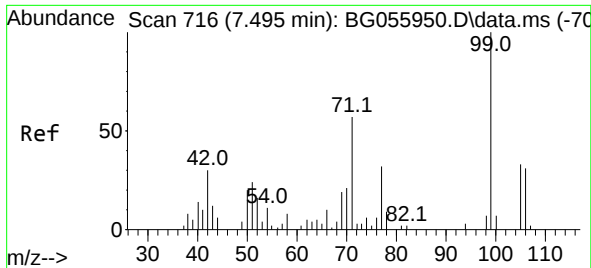


#5
2-Fluorophenol
Concen: 108.221 ng
RT: 5.887 min Scan# 442
Delta R.T. 0.002 min
Lab File: BG056017.D
Acq: 19 Dec 2022 17:27



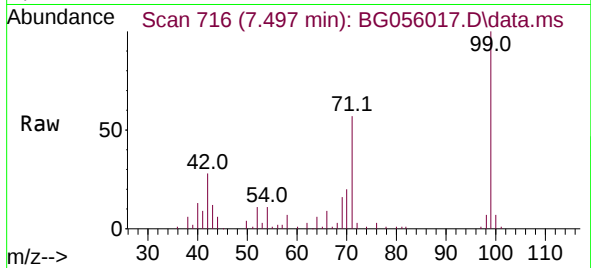
Tgt Ion:112 Resp: 46386
Ion Ratio Lower Upper
112 100
64 53.1 43.0 64.4
63 38.9 31.4 47.2





#7
Phenol-d6
Concen: 99.234 ng
RT: 7.497 min Scan# 716
Delta R.T. 0.002 min
Lab File: BG056017.D
Acq: 19 Dec 2022 17:27

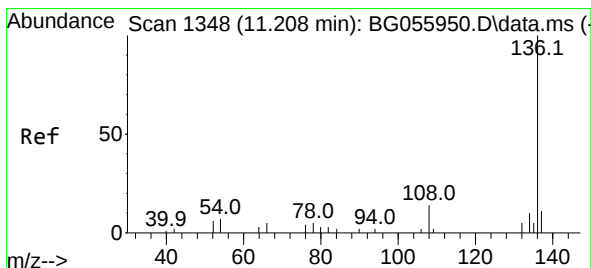
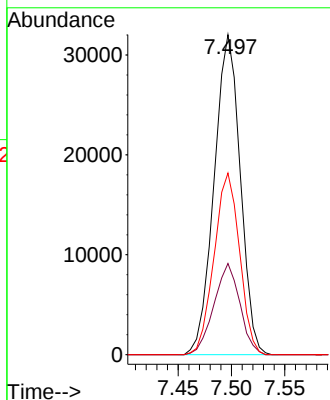
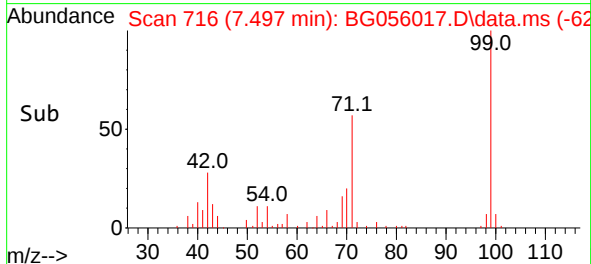
Instrument :
BNA_G
ClientSampleId :
RB-25-(1-3)



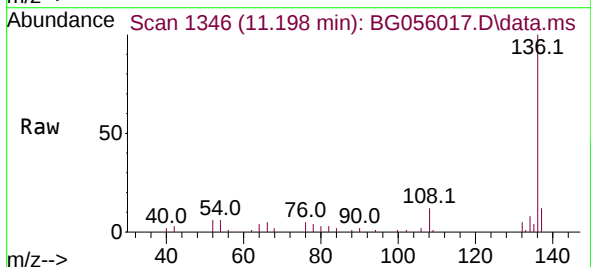
Tgt Ion: 99 Resp: 54705
Ion Ratio Lower Upper
99 100
42 28.5 24.3 36.5
71 56.7 45.6 68.4

Manual Integrations
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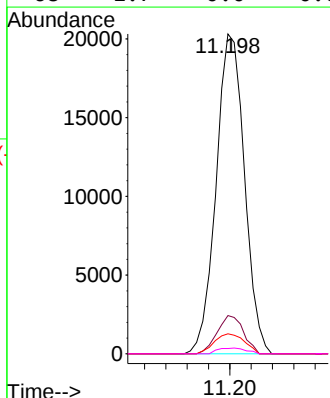
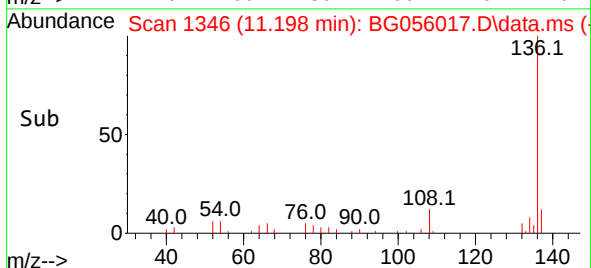
Reviewed By :Christian Giraldo 12/20/2022
Supervised By :mohammad ahmed 12/20/2022

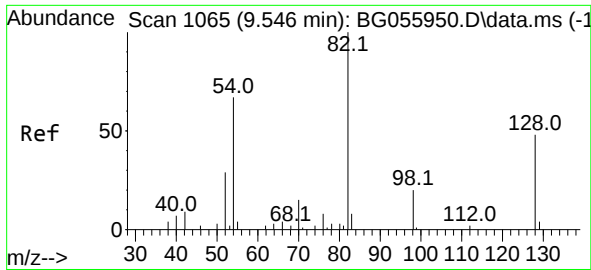


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.198 min Scan# 1346
Delta R.T. -0.009 min
Lab File: BG056017.D
Acq: 19 Dec 2022 17:27



Tgt Ion:136 Resp: 37506
Ion Ratio Lower Upper
136 100
137 12.0 9.2 13.8
54 6.3 5.6 8.4
68 1.7 0.0 0.0#





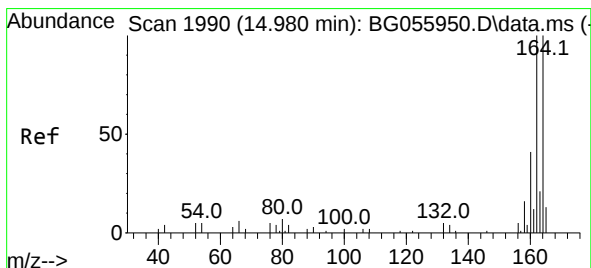
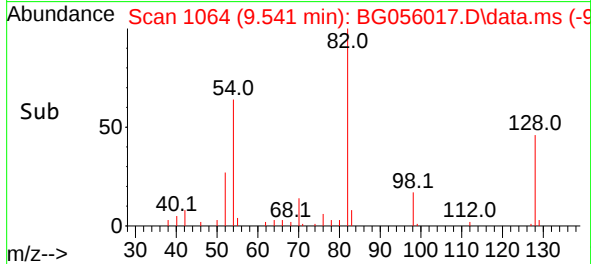
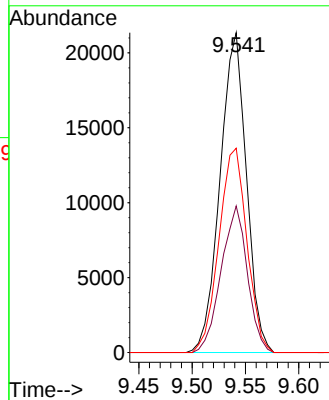
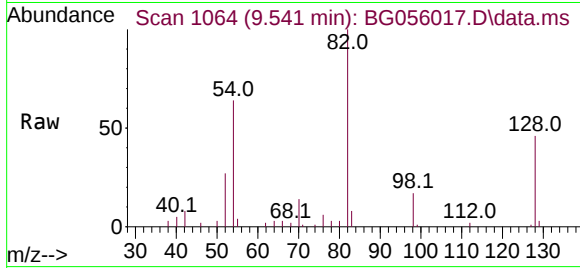
#23
Nitrobenzene-d5
Concen: 68.477 ng
RT: 9.541 min Scan# 1064
Delta R.T. -0.004 min
Lab File: BG056017.D
Acq: 19 Dec 2022 17:27

Instrument :
BNA_G
ClientSampleId :
RB-25-(1-3)

Tgt Ion: 82 Resp: 36752
Ion Ratio Lower Upper
82 100
128 45.8 38.4 57.6
54 63.9 53.3 79.9

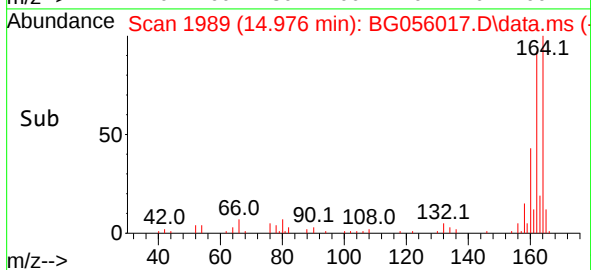
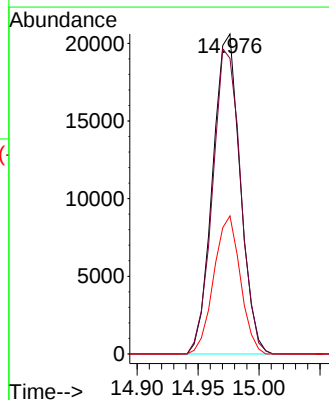
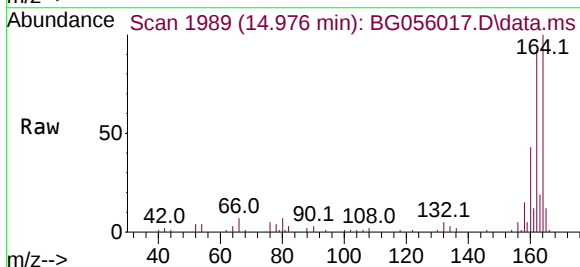
Manual Integrations
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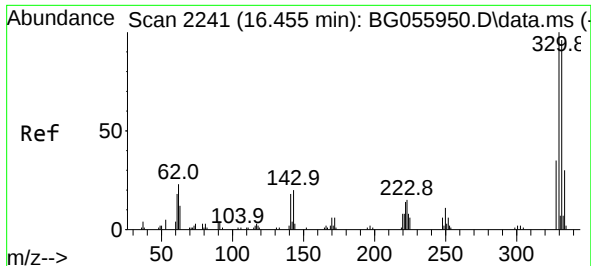
Reviewed By :Christian Giraldo 12/20/2022
Supervised By :mohammad ahmed 12/20/2022



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.976 min Scan# 1989
Delta R.T. -0.004 min
Lab File: BG056017.D
Acq: 19 Dec 2022 17:27

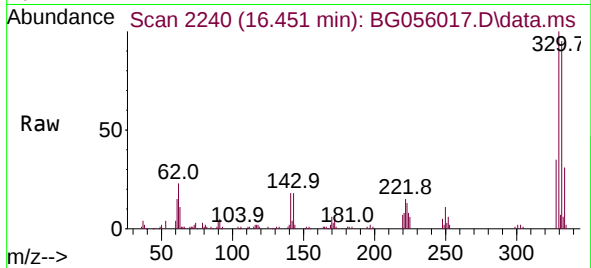
Tgt Ion:164 Resp: 32374
Ion Ratio Lower Upper
164 100
162 92.4 79.8 119.8
160 43.1 33.0 49.4





#42
2,4,6-Tribromophenol
Concen: 101.747 ng
RT: 16.451 min Scan# 21
Delta R.T. -0.009 min
Lab File: BG056017.D
Acq: 19 Dec 2022 17:27

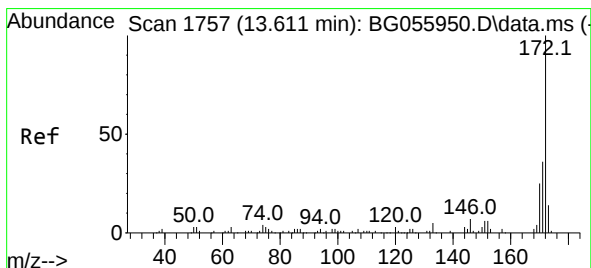
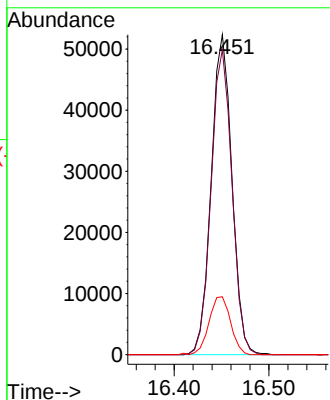
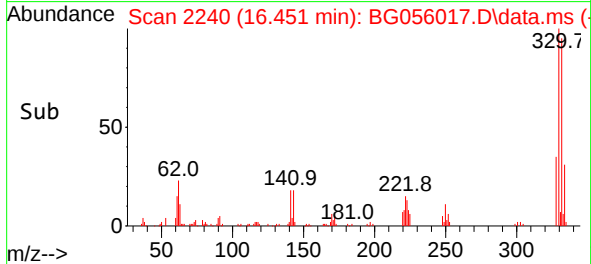
Instrument :
BNA_G
ClientSampleId :
RB-25-(1-3)



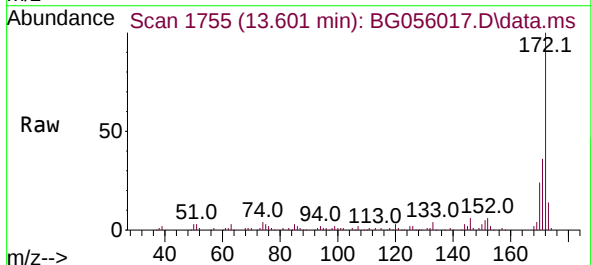
Tgt Ion:330 Resp: 7942
Ion Ratio Lower Upper
330 100
332 95.8 76.6 114.8
141 18.9 15.0 22.4

Manual Integrations
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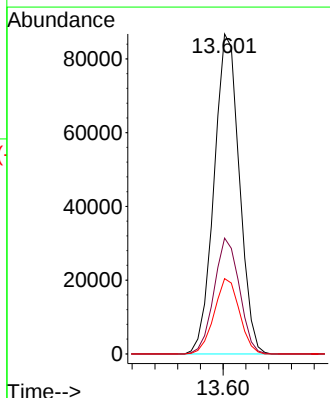
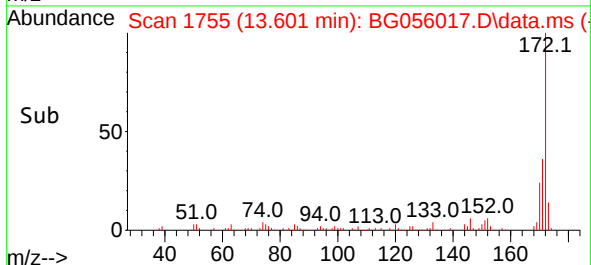
Reviewed By :Christian Giraldo 12/20/2022
Supervised By :mohammad ahmed 12/20/2022

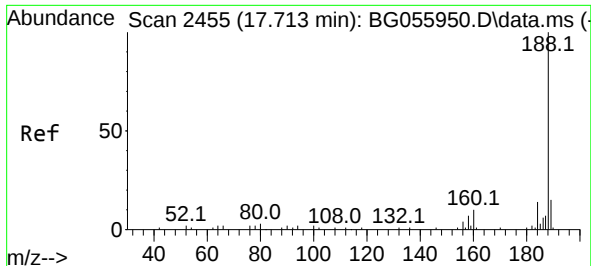


#45
2-Fluorobiphenyl
Concen: 57.862 ng
RT: 13.601 min Scan# 1755
Delta R.T. -0.009 min
Lab File: BG056017.D
Acq: 19 Dec 2022 17:27



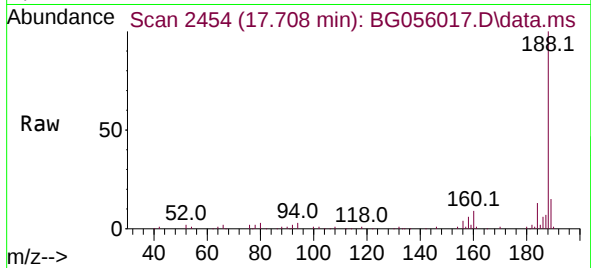
Tgt Ion:172 Resp: 133565
Ion Ratio Lower Upper
172 100
171 36.2 28.6 42.8
170 23.5 19.9 29.9





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.708 min Scan# 2455
Delta R.T. -0.009 min
Lab File: BG056017.D
Acq: 19 Dec 2022 17:27

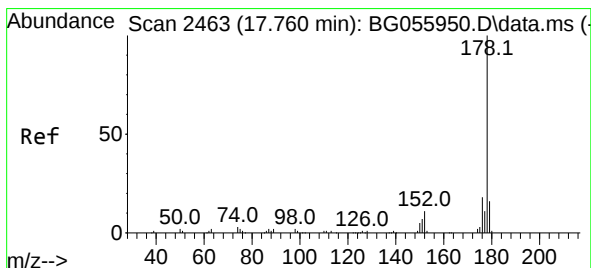
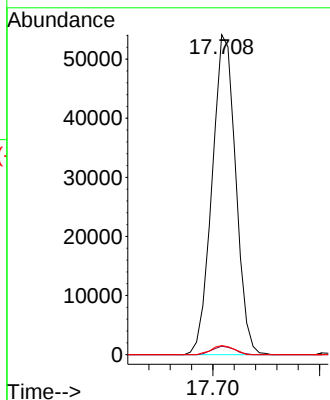
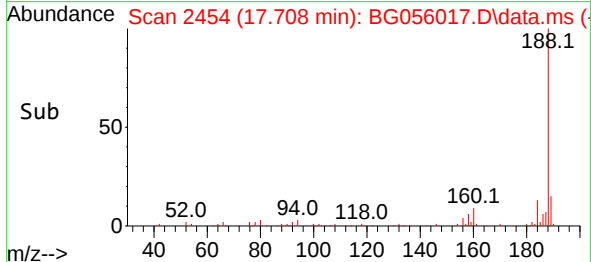
Instrument :
BNA_G
ClientSampleId :
RB-25-(1-3)



Tgt Ion:188 Resp: 83536
Ion Ratio Lower Upper
188 100
94 2.6 1.8 2.8
80 2.8 2.4 3.6

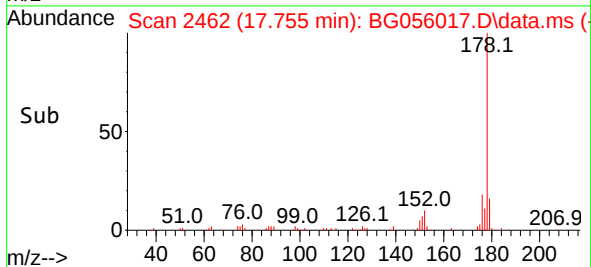
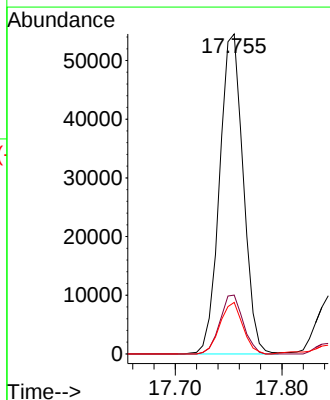
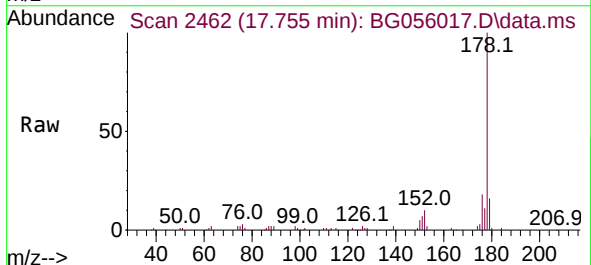
Manual Integrations
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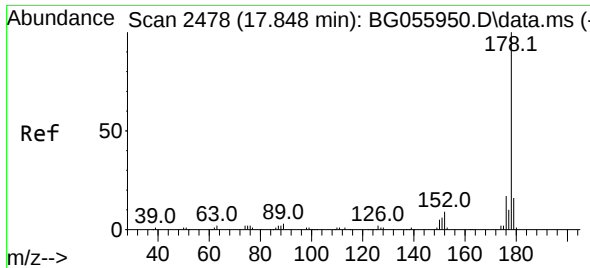
Reviewed By :Christian Giraldo 12/20/2022
Supervised By :mohammad ahmed 12/20/2022



#71
Phenanthrene
Concen: 19.180 ng
RT: 17.755 min Scan# 2462
Delta R.T. -0.004 min
Lab File: BG056017.D
Acq: 19 Dec 2022 17:27

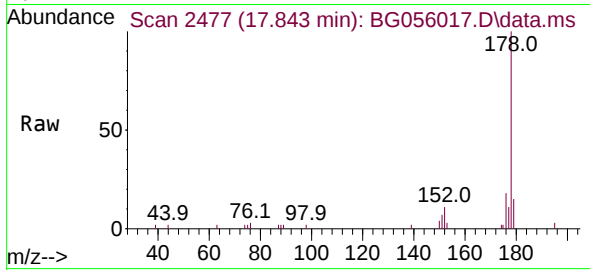
Tgt Ion:178 Resp: 83965
Ion Ratio Lower Upper
178 100
176 18.4 14.4 21.6
179 16.1 12.7 19.1





#72
 Anthracene
 Concen: 3.337 ng
 RT: 17.843 min Scan# 2478
 Delta R.T. -0.009 min
 Lab File: BG056017.D
 Acq: 19 Dec 2022 17:27

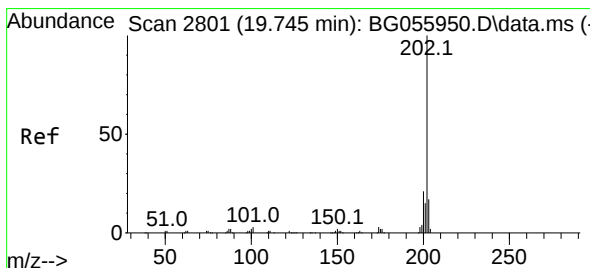
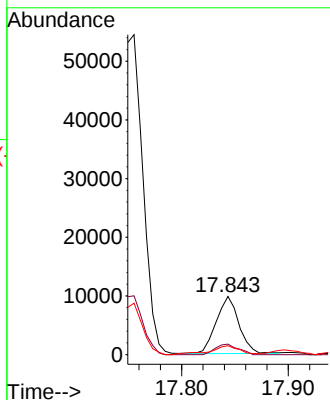
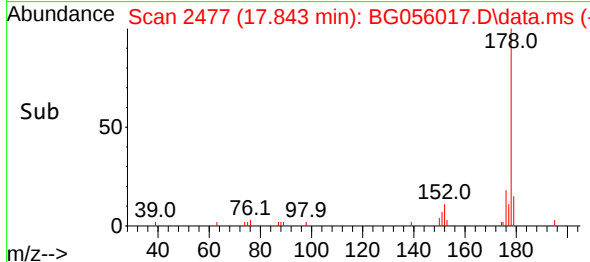
Instrument :
 BNA_G
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 RB-25-(1-3)



Tgt Ion:178 Resp: 14454
 Ion Ratio Lower Upper
 178 100
 176 18.0 13.9 20.9
 179 15.2 12.7 19.1

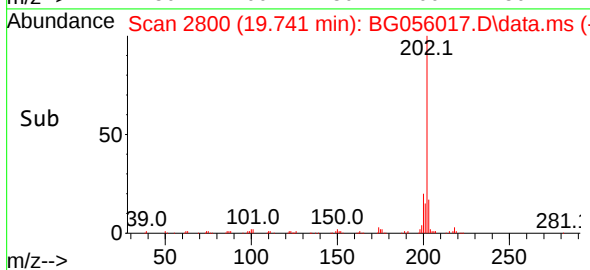
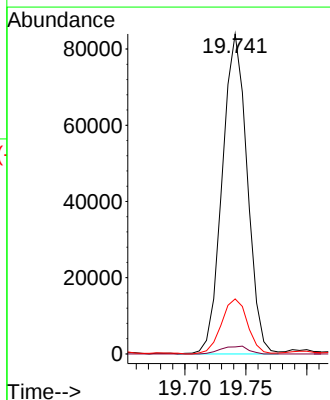
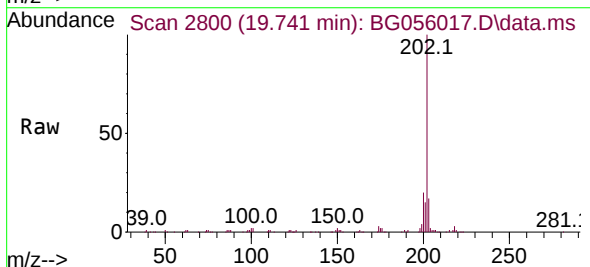
Manual Integrations
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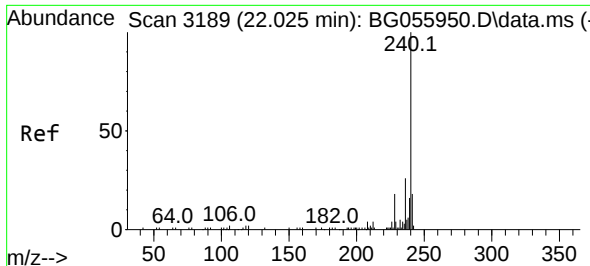
Reviewed By :Christian Giraldo 12/20/2022
 Supervised By :mohammad ahmed 12/20/2022



#75
 Fluoranthene
 Concen: 19.504 ng
 RT: 19.741 min Scan# 2800
 Delta R.T. -0.009 min
 Lab File: BG056017.D
 Acq: 19 Dec 2022 17:27

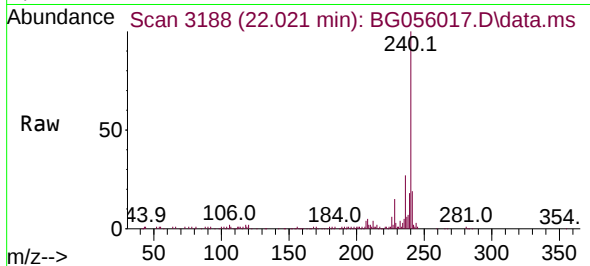
Tgt Ion:202 Resp: 119563
 Ion Ratio Lower Upper
 202 100
 101 2.2 0.0 22.6
 203 17.2 0.0 37.1





#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.021 min Scan# 3189
Delta R.T. -0.009 min
Lab File: BG056017.D
Acq: 19 Dec 2022 17:27

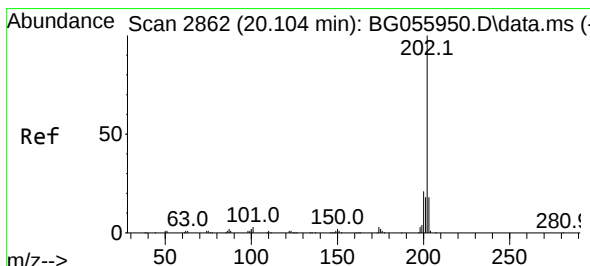
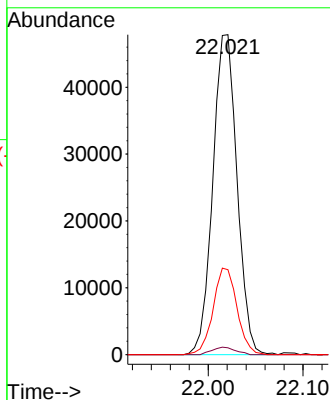
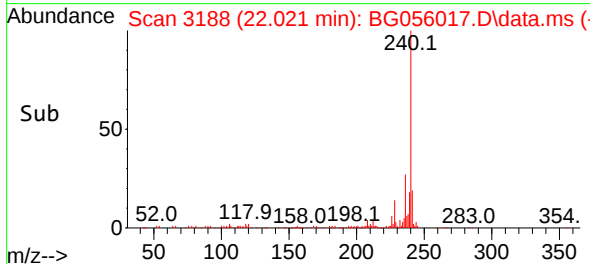
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ClientSampleId :
RB-25-(1-3)



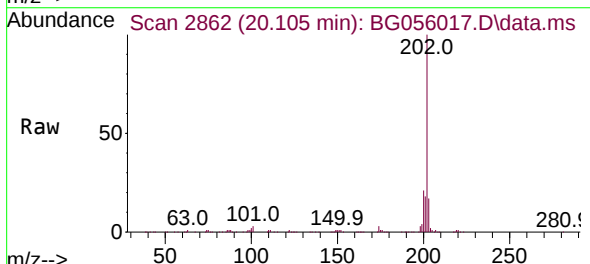
Tgt Ion:240 Resp: 85020
Ion Ratio Lower Upper
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120 2.1 1.7 2.5
236 26.5 21.1 31.7

Manual Integrations
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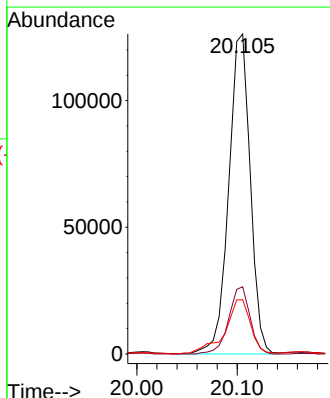
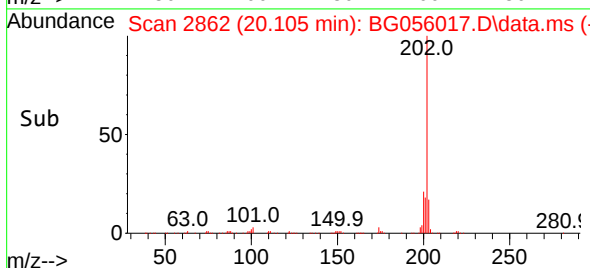
Reviewed By :Christian Giraldo 12/20/2022
Supervised By :mohammad ahmed 12/20/2022

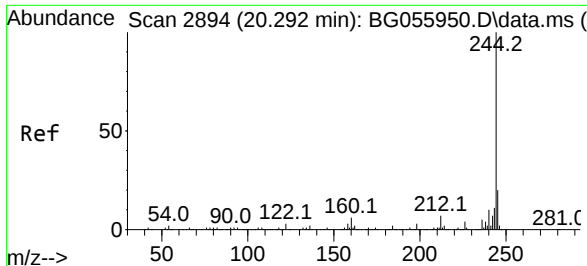


#78
Pyrene
Concen: 36.583 ng
RT: 20.105 min Scan# 2862
Delta R.T. -0.004 min
Lab File: BG056017.D
Acq: 19 Dec 2022 17:27



Tgt Ion:202 Resp: 188203
Ion Ratio Lower Upper
202 100
200 21.0 16.7 25.1
203 16.9 14.6 21.8





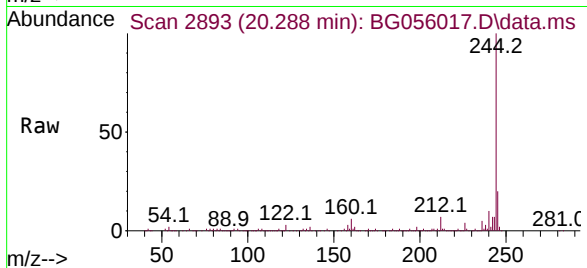
#79
 Terphenyl-d14
 Concen: 60.543 ng
 RT: 20.288 min Scan# 2893
 Delta R.T. -0.004 min
 Lab File: BG056017.D
 Acq: 19 Dec 2022 17:27

Instrument :

BNA_G

ClientSampleId :

RB-25-(1-3)

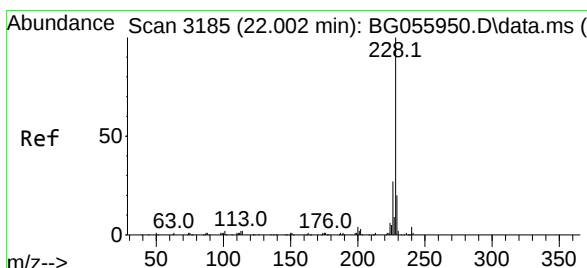
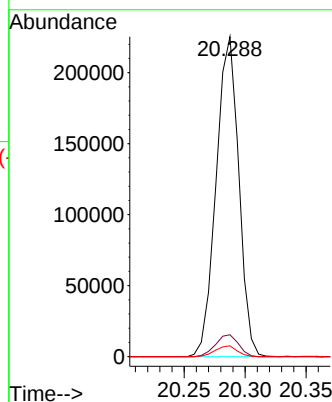
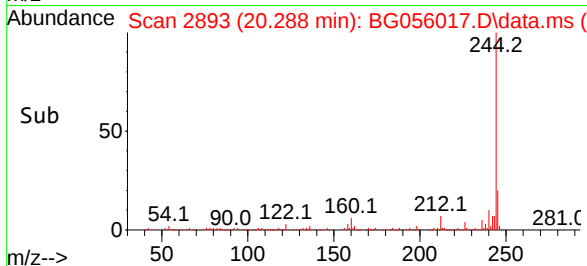


Tgt Ion:244 Resp: 291243
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.8 8.6
 122 3.4 2.5 3.7

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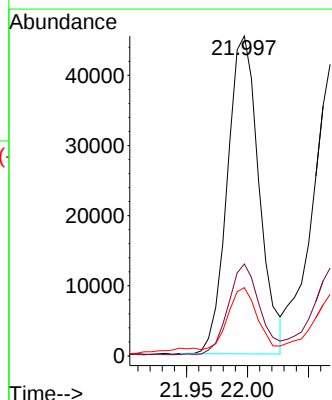
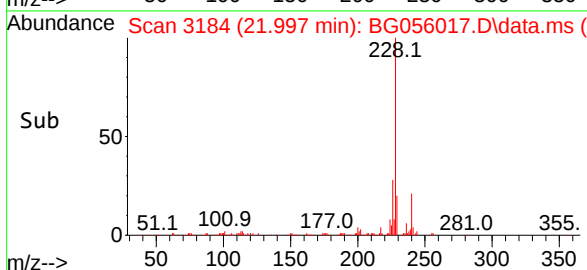
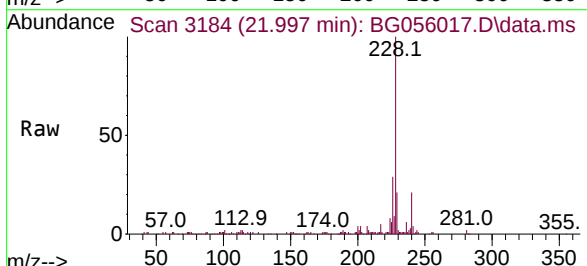
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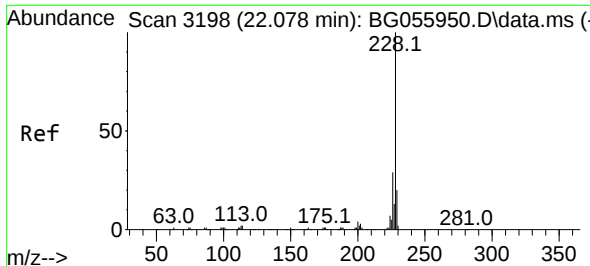
Reviewed By :Christian Giraldo 12/20/2022
 Supervised By :mohammad ahmed 12/20/2022



#81
 Benzo(a)anthracene
 Concen: 13.747 ng
 RT: 21.997 min Scan# 3184
 Delta R.T. -0.009 min
 Lab File: BG056017.D
 Acq: 19 Dec 2022 17:27

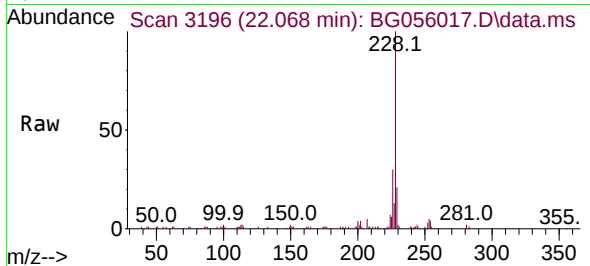
Tgt Ion:228 Resp: 82244
 Ion Ratio Lower Upper
 228 100
 226 28.7 21.8 32.6
 229 21.3 15.9 23.9





#83
Chrysene
Concen: 14.059 ng
RT: 22.068 min Scan# 3198
Delta R.T. -0.009 min
Lab File: BG056017.D
Acq: 19 Dec 2022 17:27

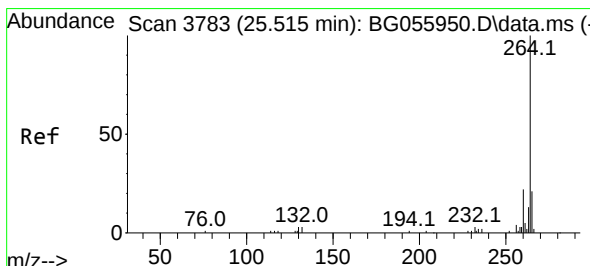
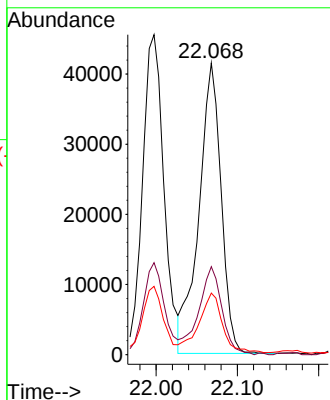
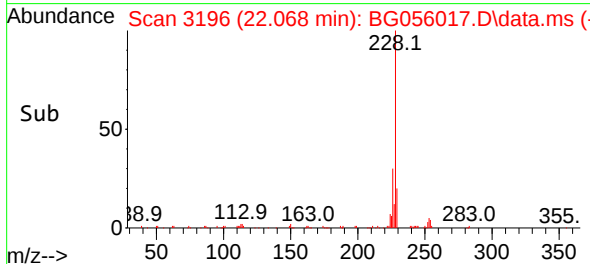
Instrument :
BNA_G
ClientSampleId :
RB-25-(1-3)



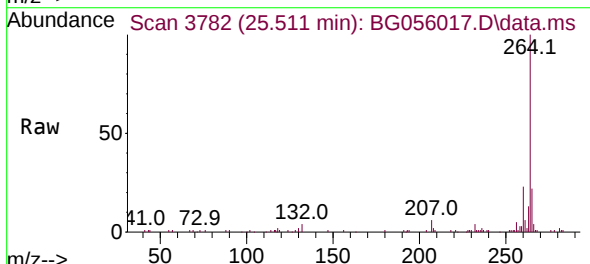
Tgt Ion:228 Resp: 78836
Ion Ratio Lower Upper
228 100
226 30.1 23.1 34.7
229 21.1 15.7 23.5

Manual Integrations
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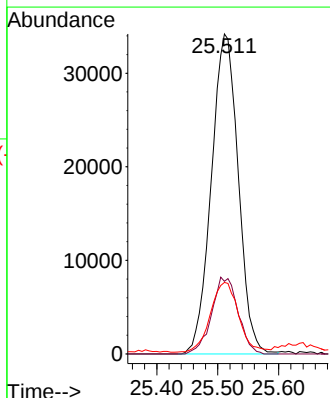
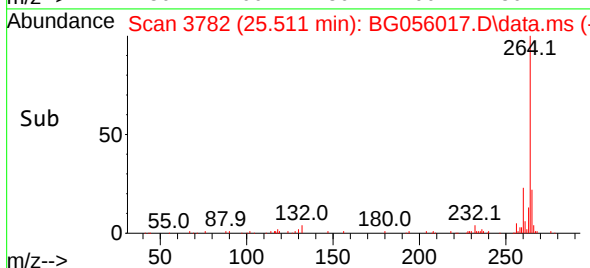
Reviewed By :Christian Giraldo 12/20/2022
Supervised By :mohammad ahmed 12/20/2022

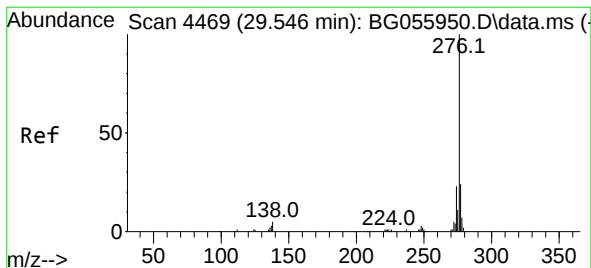


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.511 min Scan# 3782
Delta R.T. -0.015 min
Lab File: BG056017.D
Acq: 19 Dec 2022 17:27



Tgt Ion:264 Resp: 105044
Ion Ratio Lower Upper
264 100
260 22.7 17.8 26.8
265 22.3 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.058 ng

RT: 29.524 min Scan# 4465

Delta R.T. -0.033 min

Lab File: BG056017.D

Acq: 19 Dec 2022 17:27

Instrument :

BNA_G

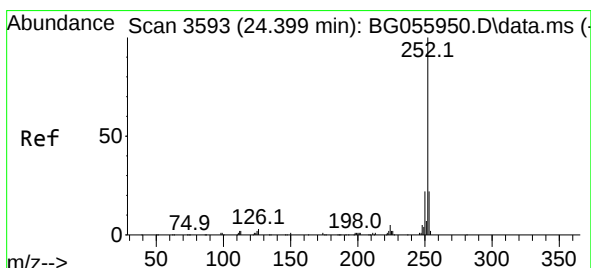
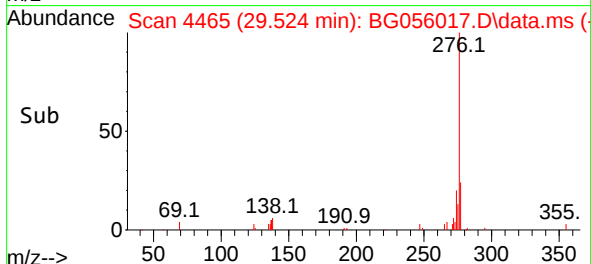
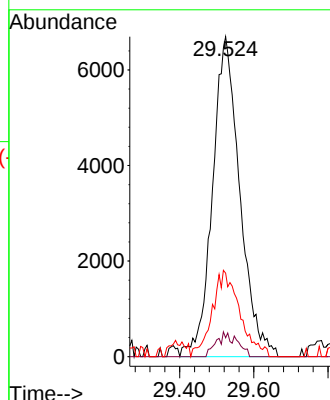
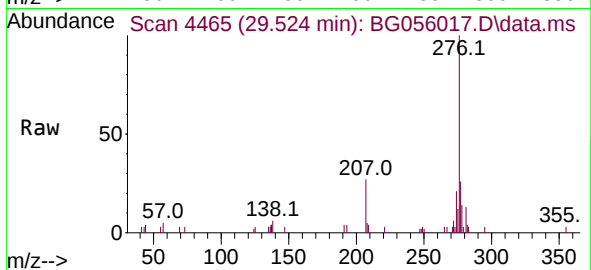
ClientSampleId :

RB-25-(1-3)

Tgt Ion:276 Resp: 34282
 Ion Ratio Lower Upper
 276 100
 138 3.9 3.0 4.4
 277 27.0 20.4 30.6

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Reviewed By :Christian Giraldo 12/20/2022
 Supervised By :mohammad ahmed 12/20/2022



#88

Benzo(b)fluoranthene

Concen: 10.349 ng

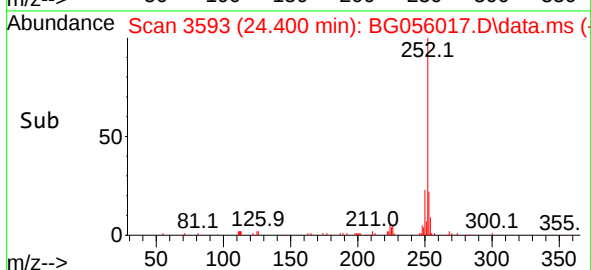
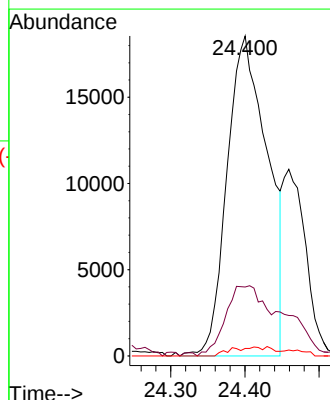
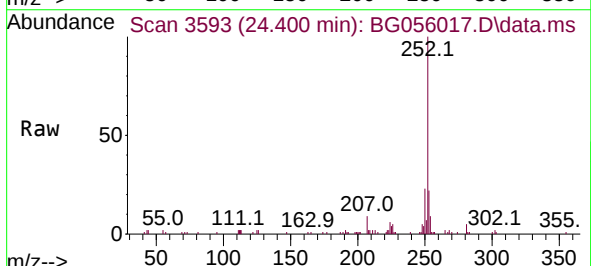
RT: 24.400 min Scan# 3593

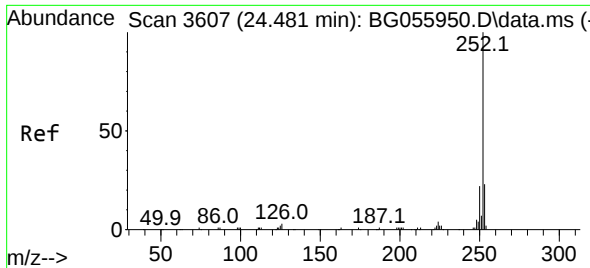
Delta R.T. -0.004 min

Lab File: BG056017.D

Acq: 19 Dec 2022 17:27

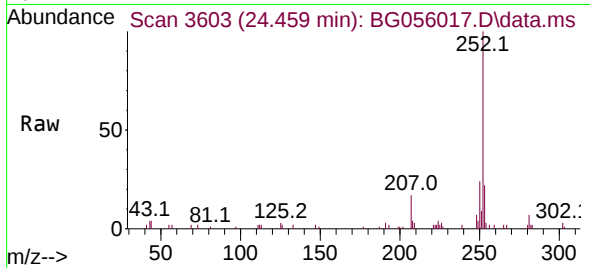
Tgt Ion:252 Resp: 70353
 Ion Ratio Lower Upper
 252 100
 253 21.5 17.4 26.0
 125 2.3 1.8 2.8





#89
Benzo(k)fluoranthene
Concen: 3.374 ng m
RT: 24.459 min Scan# 3603
Delta R.T. -0.027 min
Lab File: BG056017.D
Acq: 19 Dec 2022 17:27

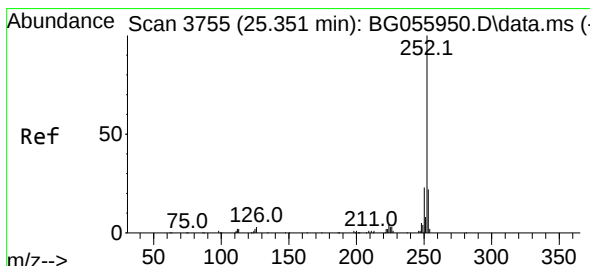
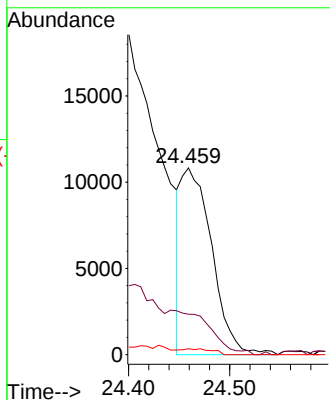
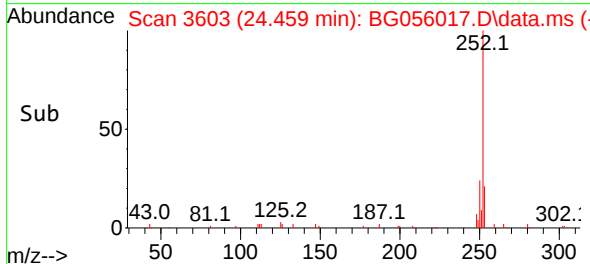
Instrument :
BNA_G
ClientSampleId :
RB-25-(1-3)



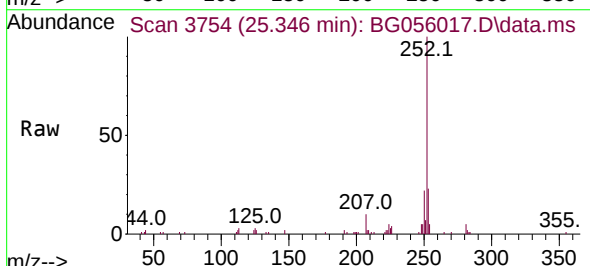
Tgt Ion:252 Resp: 22884
Ion Ratio Lower Upper
252 100
253 21.6 18.2 27.2
125 3.1 2.0 3.0

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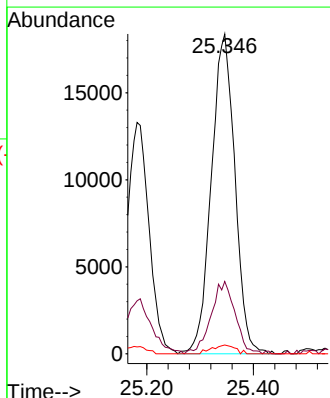
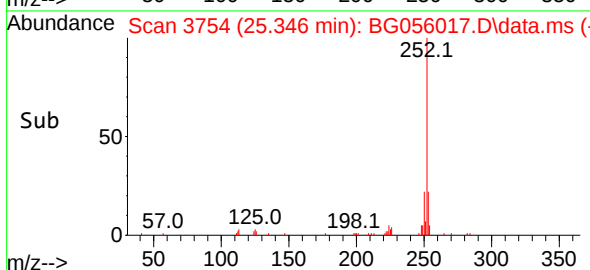
Reviewed By :Christian Giraldo 12/20/2022
Supervised By :mohammad ahmed 12/20/2022

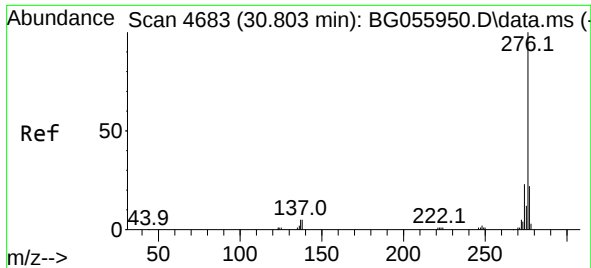


#90
Benzo(a)pyrene
Concen: 9.825 ng
RT: 25.346 min Scan# 3754
Delta R.T. -0.015 min
Lab File: BG056017.D
Acq: 19 Dec 2022 17:27



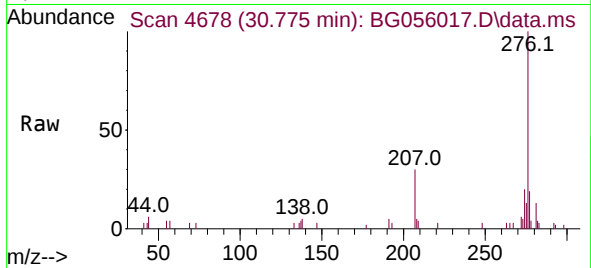
Tgt Ion:252 Resp: 56458
Ion Ratio Lower Upper
252 100
253 22.6 17.7 26.5
125 2.8 1.9 2.9





#92
 Benzo(g,h,i)perylene
 Concen: 5.001 ng
 RT: 30.775 min Scan# 4678
 Delta R.T. -0.056 min
 Lab File: BG056017.D
 Acq: 19 Dec 2022 17:27

Instrument :
 BNA_G
 ClientSampleId :
 RB-25-(1-3)



Tgt Ion: 276 Resp: 34186

Ion	Ratio	Lower	Upper
276	100		
277	19.2	17.8	26.6
138	5.4	3.8	5.6

Manual Integrations
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Reviewed By : Christian Giraldo 12/20/2022
 Supervised By : mohammad ahmed 12/20/2022

