

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG053023\
 Data File : BG057617.D
 Acq On : 30 May 2023 22:18
 Operator : CG/JU
 Sample : 02953-03 2X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 PNNL-RH-524-2

Manual Integrations
 APPROVED

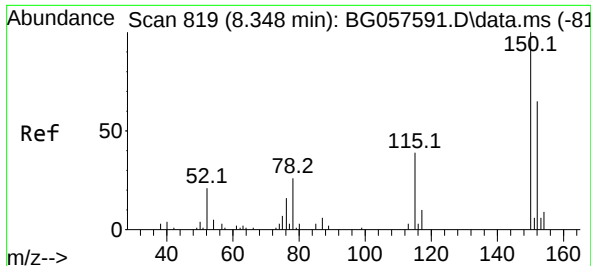
Reviewed By :Yogesh Patel 06/01/2023
 Supervised By :mohammad ahmed 06/01/2023

Quant Time: May 31 03:30:37 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG052723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 31 03:25:39 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.343	152	29052	20.000	ng	0.00
21) Naphthalene-d8	11.181	136	117635	20.000	ng	0.00
39) Acenaphthene-d10	14.958	164	81423	20.000	ng	0.00
64) Phenanthrene-d10	17.696	188	180948	20.000	ng	0.00
76) Chrysene-d12	22.001	240	146538	20.000	ng	0.00
86) Perylene-d12	25.503	264	138633	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.864	112	73115	43.723	ng	0.00
7) Phenol-d6	7.492	99	104707	40.010	ng	0.00
23) Nitrobenzene-d5	9.524	82	67677	26.894	ng	0.00
42) 2,4,6-Tribromophenol	16.444	330	46928	35.999	ng	0.00
45) 2-Fluorobiphenyl	13.578	172	168203	29.688	ng	0.00
79) Terphenyl-d14	20.263	244	248827	29.414	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	17.737	178	110073	11.887	ng	98
72) Anthracene	17.831	178	27902	2.937	ng	99
75) Fluoranthene	19.728	202	163773	13.624	ng	99
78) Pyrene	20.092	202	139586	13.378	ng	98
81) Benzo(a)anthracene	21.984	228	76350	7.510	ng	98
83) Chrysene	22.048	228	64515	6.715	ng	97
87) Indeno(1,2,3-cd)pyrene	29.527	276	20718m	2.143	ng	
88) Benzo(b)fluoranthene	24.381	252	66364	7.777	ng	# 93
89) Benzo(k)fluoranthene	24.445	252	35745m	4.151	ng	
90) Benzo(a)pyrene	25.332	252	49994	6.008	ng	# 92
92) Benzo(g,h,i)perylene	30.819	276	17696m	2.256	ng	

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



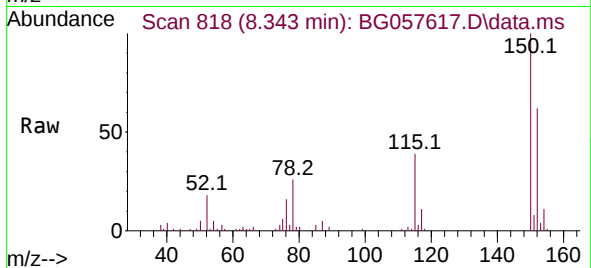
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.343 min Scan# 819
Delta R.T. -0.001 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

Instrument :

BNA_G

ClientSampleId :

PNNL-RH-524-2

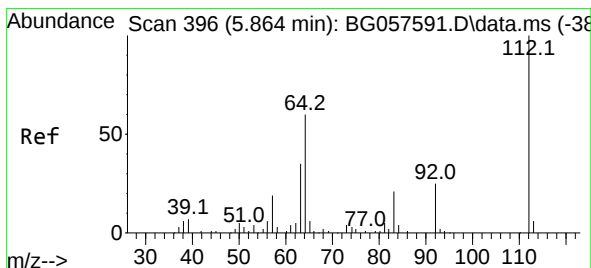
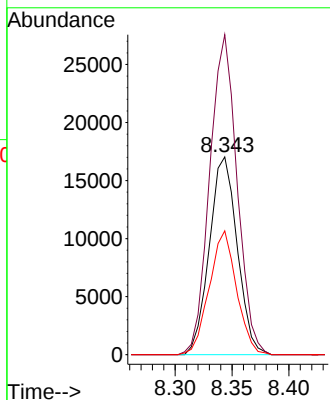
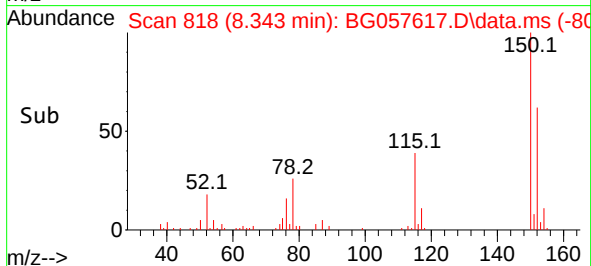


Tgt Ion:152 Resp: 29052
Ion Ratio Lower Upper
152 100
150 161.8 123.0 184.4
115 62.6 47.4 71.2

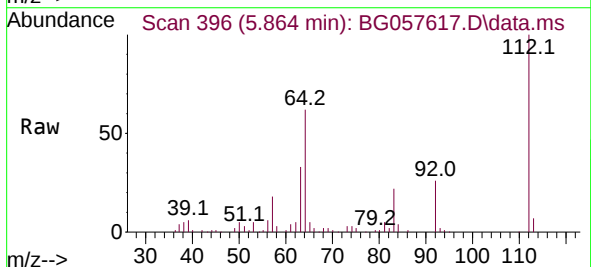
Manual Integrations

APPROVED

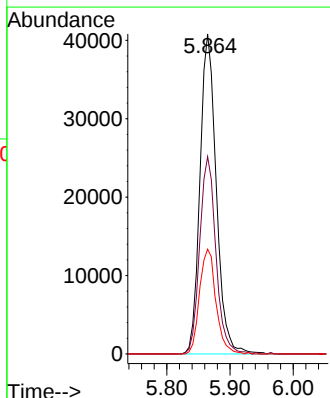
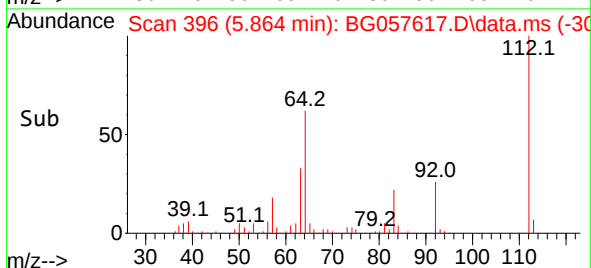
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023

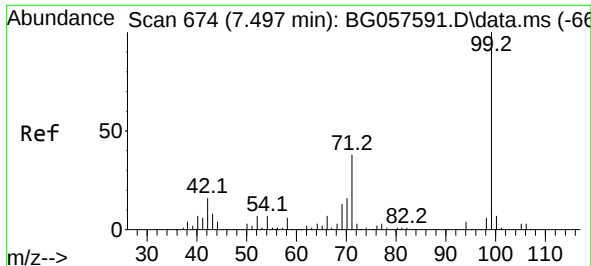


#5
2-Fluorophenol
Concen: 43.723 ng
RT: 5.864 min Scan# 396
Delta R.T. 0.006 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18



Tgt Ion:112 Resp: 73115
Ion Ratio Lower Upper
112 100
64 61.7 47.8 71.6
63 32.8 27.8 41.8





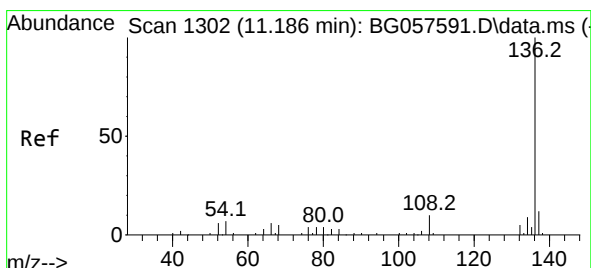
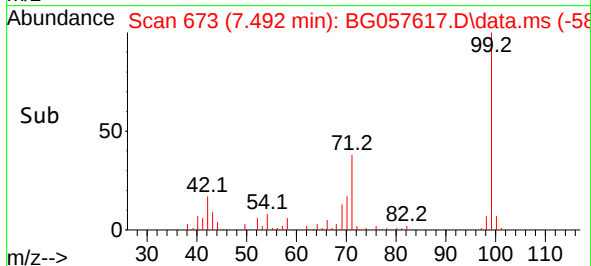
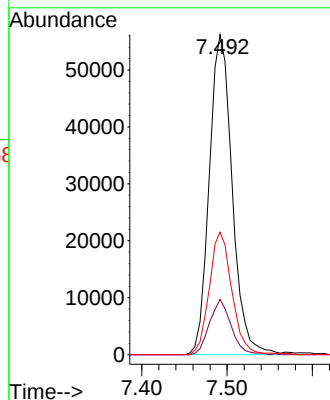
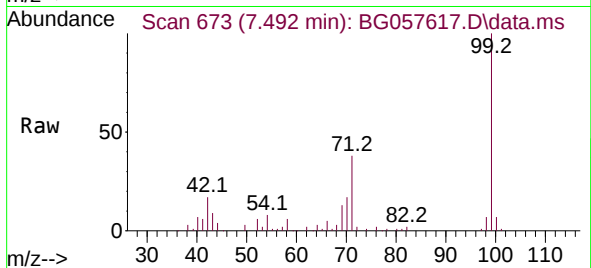
#7
Phenol-d6
Concen: 40.010 ng
RT: 7.492 min Scan# 61
Delta R.T. 0.006 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-2

Tgt Ion: 99 Resp: 10470
Ion Ratio Lower Upper
99 100
42 17.3 12.8 19.2
71 38.3 30.3 45.5

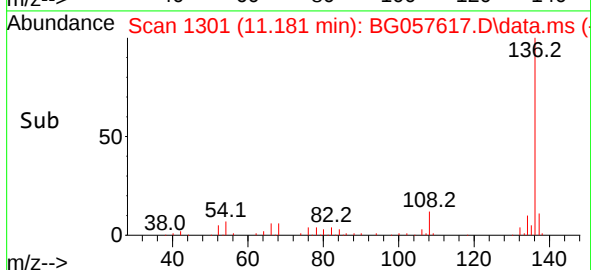
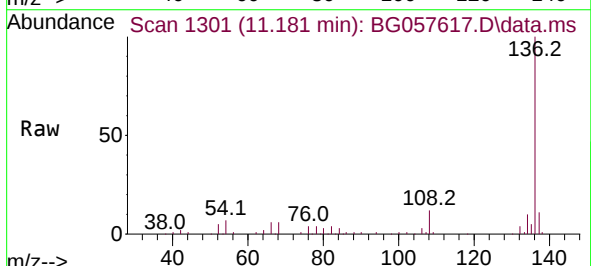
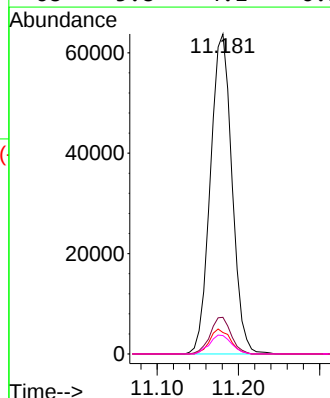
Manual Integrations
APPROVED

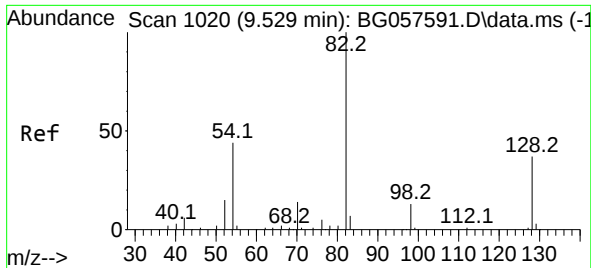
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.181 min Scan# 1301
Delta R.T. 0.006 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

Tgt Ion:136 Resp: 117635
Ion Ratio Lower Upper
136 100
137 11.5 9.8 14.8
54 6.7 5.8 8.6
68 5.8 4.1 6.1





#23
Nitrobenzene-d5
Concen: 26.894 ng
RT: 9.524 min Scan# 1019
Delta R.T. -0.000 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

Instrument :

BNA_G

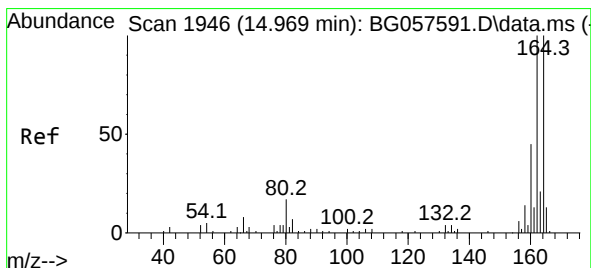
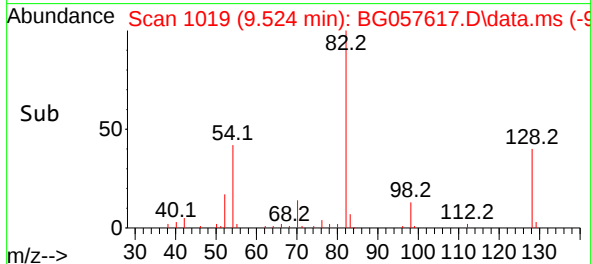
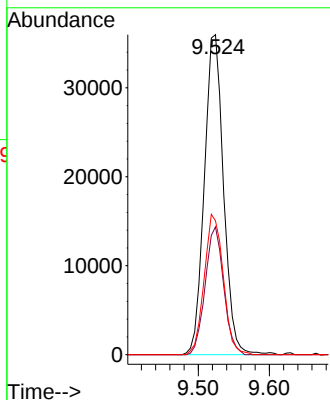
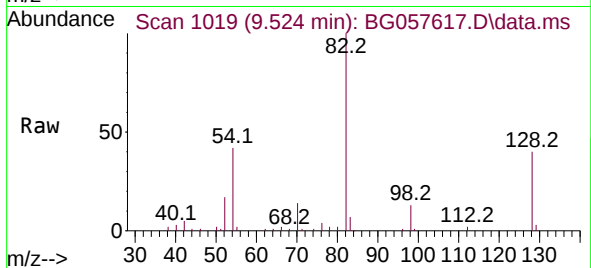
ClientSampleId :

PNNL-RH-524-2

Tgt Ion: 82 Resp: 6767
Ion Ratio Lower Upper
82 100
128 40.0 30.0 45.0
54 41.9 35.2 52.8

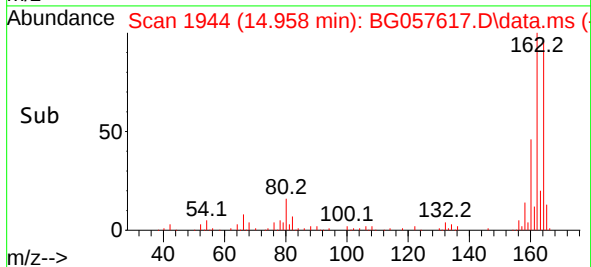
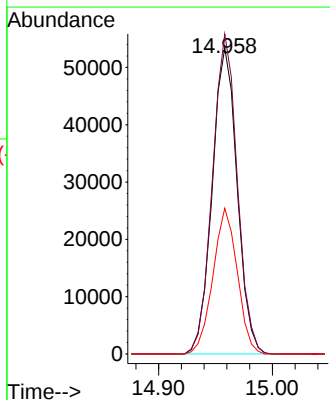
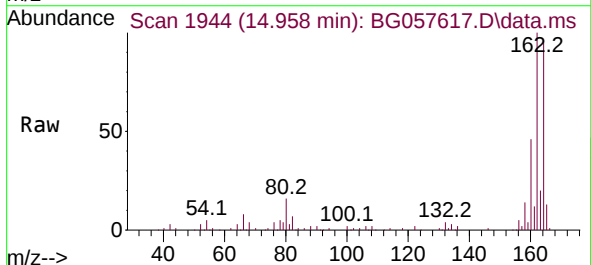
Manual Integrations
APPROVED

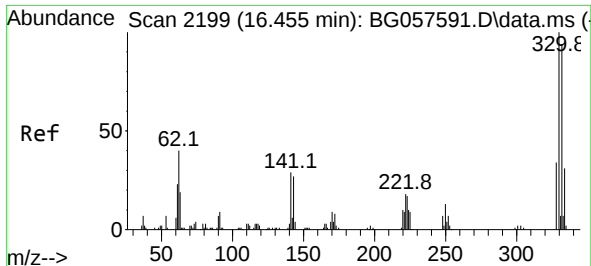
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.958 min Scan# 1944
Delta R.T. -0.000 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

Tgt Ion:164 Resp: 81423
Ion Ratio Lower Upper
164 100
162 104.5 80.1 120.1
160 47.6 35.9 53.9





#42
2,4,6-Tribromophenol
Concen: 35.999 ng
RT: 16.444 min Scan# 2199
Delta R.T. -0.000 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

Instrument :

BNA_G

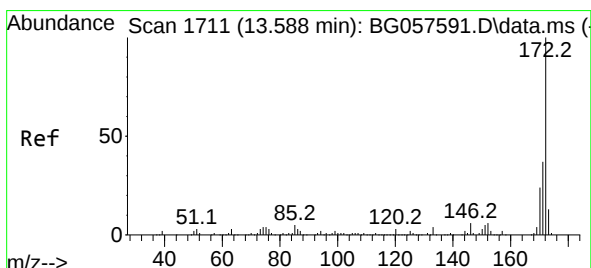
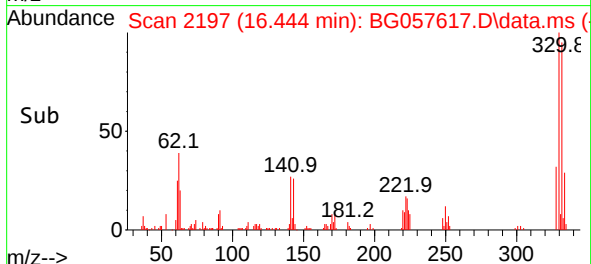
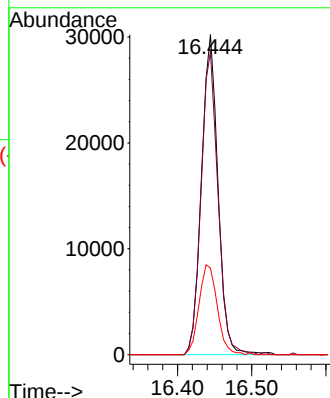
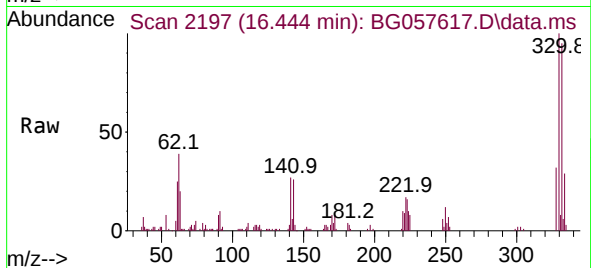
ClientSampleId :

PNNL-RH-524-2

Tgt Ion:330 Resp: 46928
Ion Ratio Lower Upper
330 100
332 95.7 77.3 115.9
141 30.9 24.6 37.0

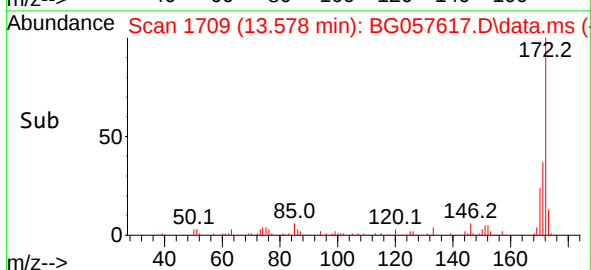
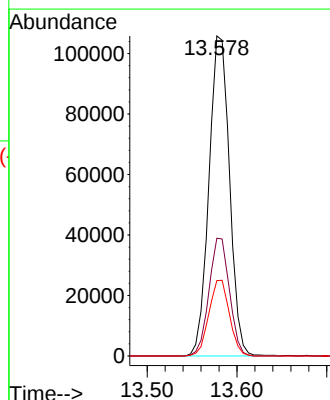
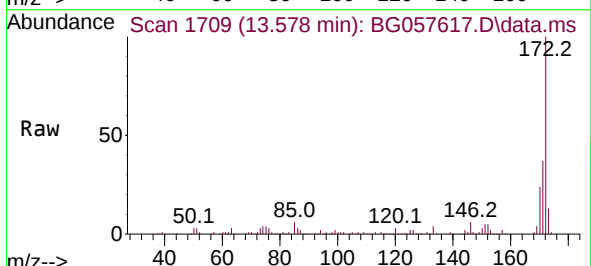
Manual Integrations
APPROVED

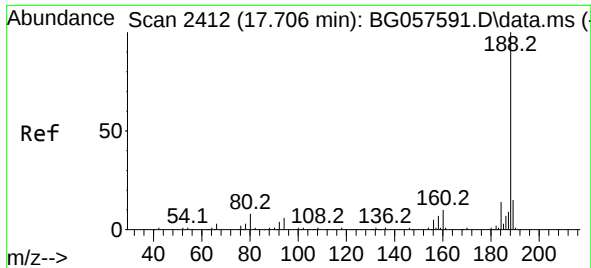
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023



#45
2-Fluorobiphenyl
Concen: 29.688 ng
RT: 13.578 min Scan# 1709
Delta R.T. -0.006 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

Tgt Ion:172 Resp: 168203
Ion Ratio Lower Upper
172 100
171 36.8 29.2 43.8
170 23.6 19.0 28.4





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.696 min Scan# 2410
Delta R.T. -0.000 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

Instrument :

BNA_G

ClientSampleId :

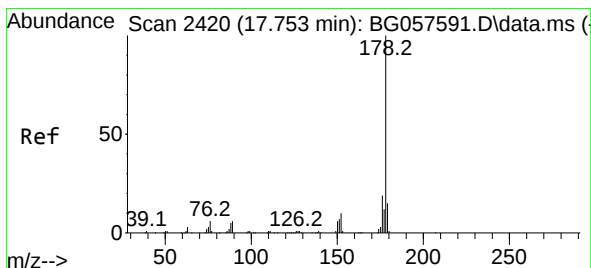
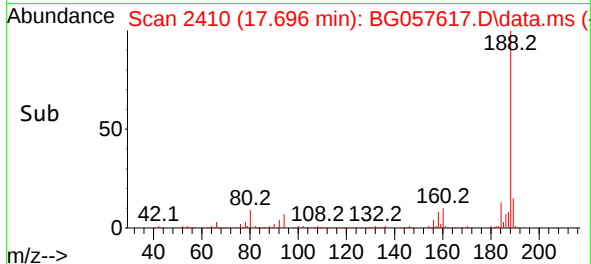
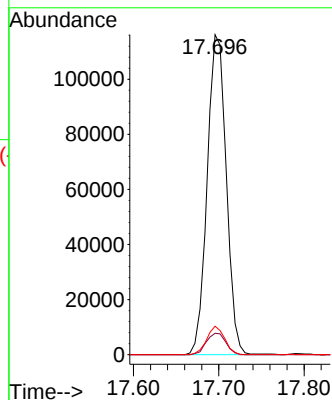
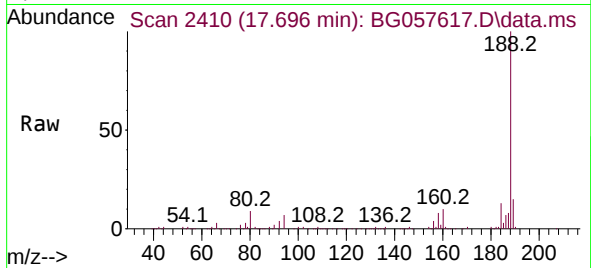
PNNL-RH-524-2

Tgt Ion:188 Resp: 18094
Ion Ratio Lower Upper
188 100
94 6.7 5.2 7.8
80 8.9 6.7 10.1

Manual Integrations

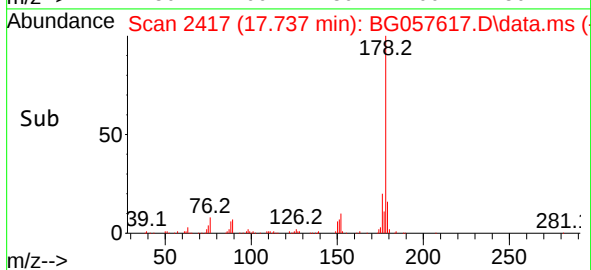
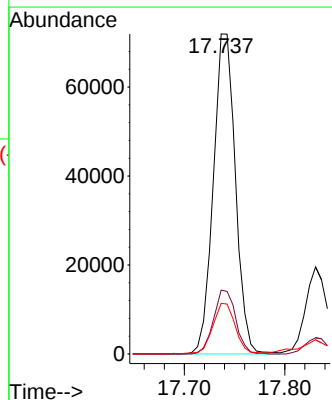
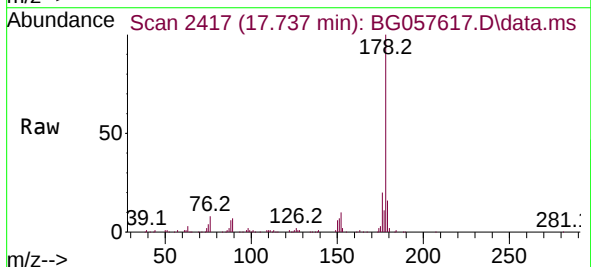
APPROVED

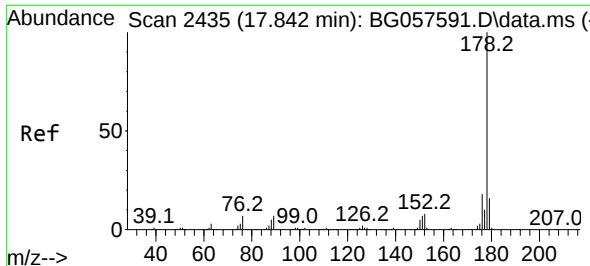
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023



#71
Phenanthrene
Concen: 11.887 ng
RT: 17.737 min Scan# 2417
Delta R.T. -0.006 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

Tgt Ion:178 Resp: 110073
Ion Ratio Lower Upper
178 100
176 20.0 15.3 22.9
179 15.8 12.0 18.0





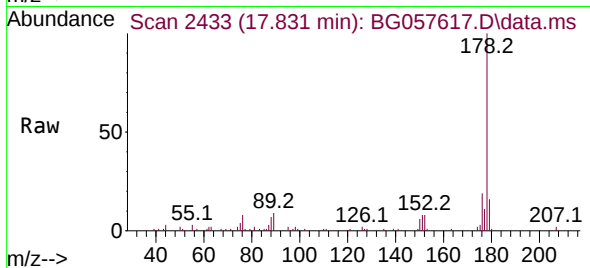
#72
 Anthracene
 Concen: 2.937 ng
 RT: 17.831 min Scan# 2433
 Delta R.T. -0.000 min
 Lab File: BG057617.D
 Acq: 30 May 2023 22:18

Instrument :

BNA_G

ClientSampleId :

PNNL-RH-524-2

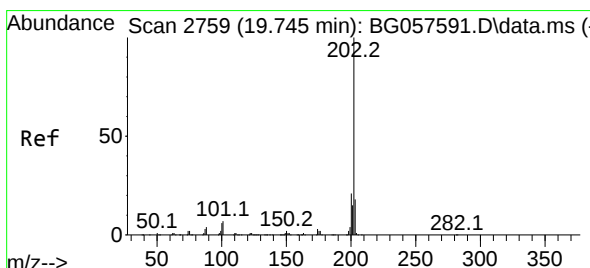
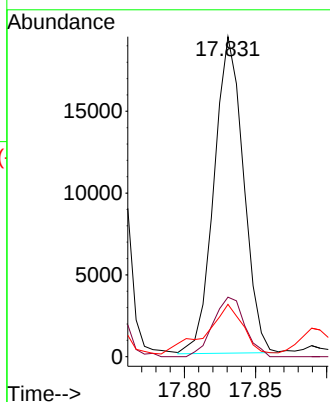
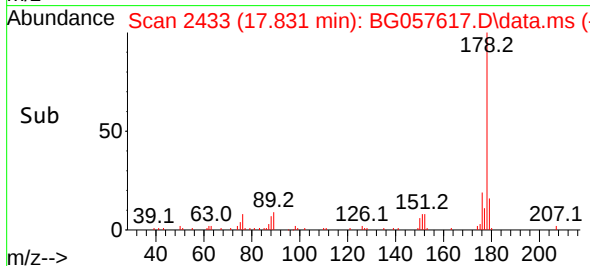


Tgt Ion:178 Resp: 27902
 Ion Ratio Lower Upper
 178 100
 176 18.6 14.6 22.0
 179 16.4 12.6 18.8

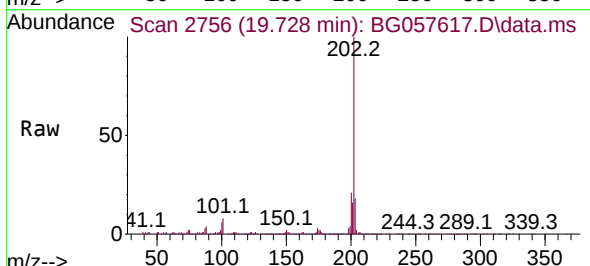
Manual Integrations

APPROVED

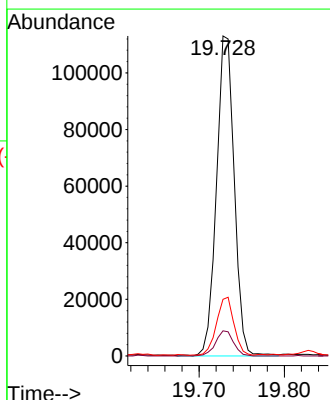
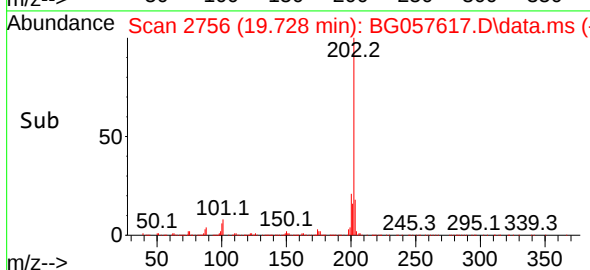
Reviewed By :Yogesh Patel 06/01/2023
 Supervised By :mohammad ahmed 06/01/2023

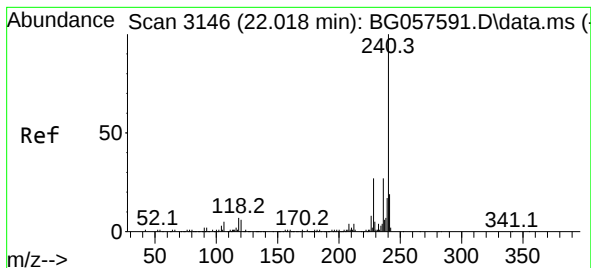


#75
 Fluoranthene
 Concen: 13.624 ng
 RT: 19.728 min Scan# 2756
 Delta R.T. -0.000 min
 Lab File: BG057617.D
 Acq: 30 May 2023 22:18



Tgt Ion:202 Resp: 163773
 Ion Ratio Lower Upper
 202 100
 101 7.8 0.0 27.5
 203 17.7 0.0 38.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 22.001 min Scan# 3146

Delta R.T. -0.000 min

Lab File: BG057617.D

Acq: 30 May 2023 22:18

Instrument :

BNA_G

ClientSampleId :

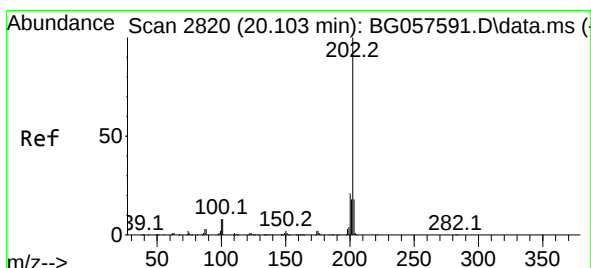
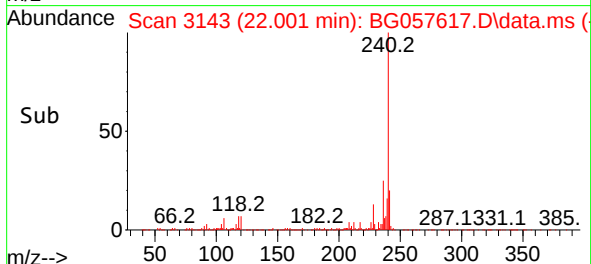
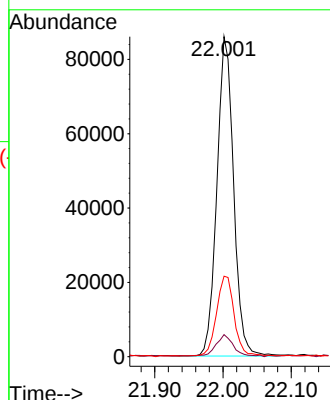
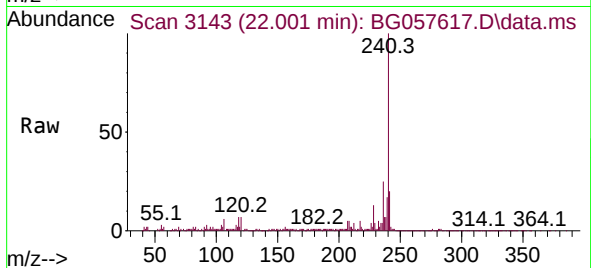
PNNL-RH-524-2

Tgt Ion:240 Resp: 146538
 Ion Ratio Lower Upper
 240 100
 120 6.9 5.2 7.8
 236 25.2 21.4 32.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/01/2023
 Supervised By :mohammad ahmed 06/01/2023



#78

Pyrene

Concen: 13.378 ng

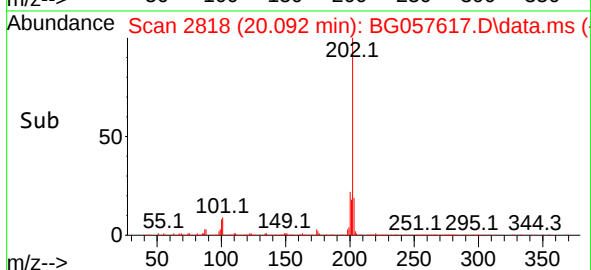
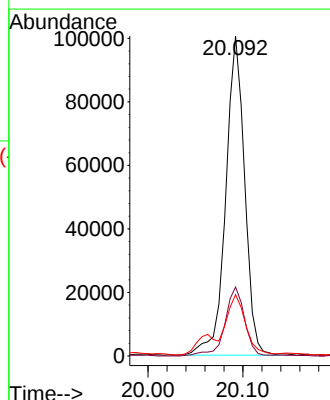
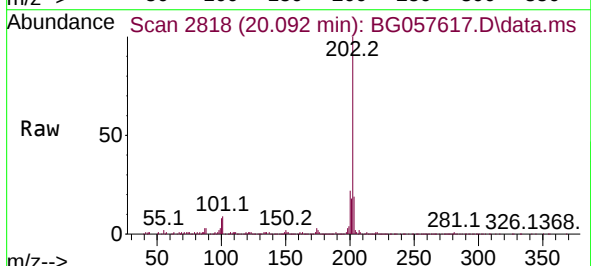
RT: 20.092 min Scan# 2818

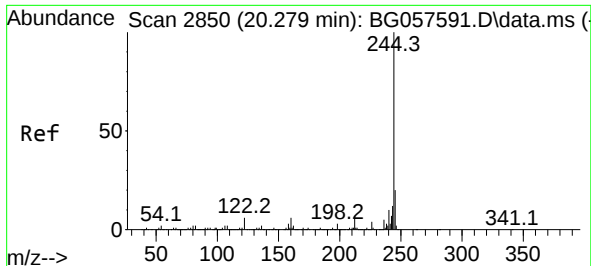
Delta R.T. -0.000 min

Lab File: BG057617.D

Acq: 30 May 2023 22:18

Tgt Ion:202 Resp: 139586
 Ion Ratio Lower Upper
 202 100
 200 21.6 16.8 25.2
 203 19.2 14.5 21.7





#79
 Terphenyl-d14
 Concen: 29.414 ng
 RT: 20.263 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BG057617.D
 Acq: 30 May 2023 22:18

Instrument :

BNA_G

ClientSampleId :

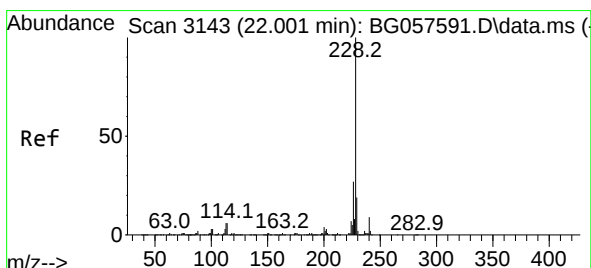
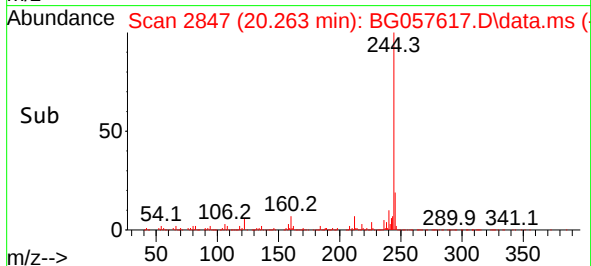
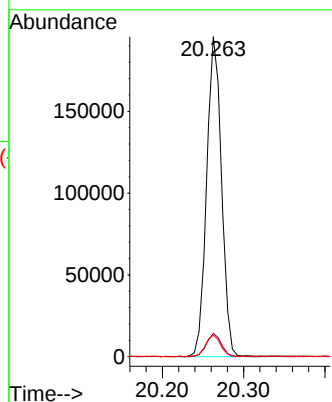
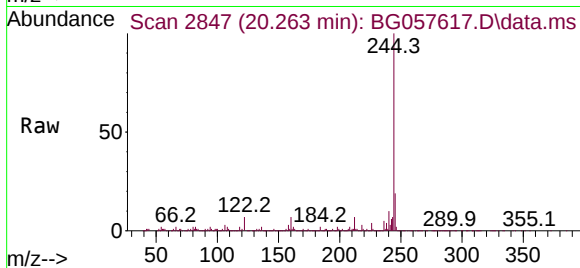
PNNL-RH-524-2

Tgt Ion:244 Resp: 24882
 Ion Ratio Lower Upper
 244 100
 212 7.3 5.6 8.4
 122 6.7 4.8 7.2

Manual Integrations

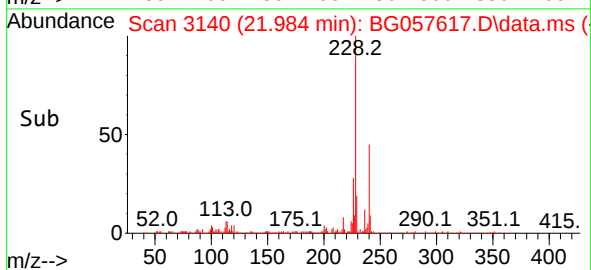
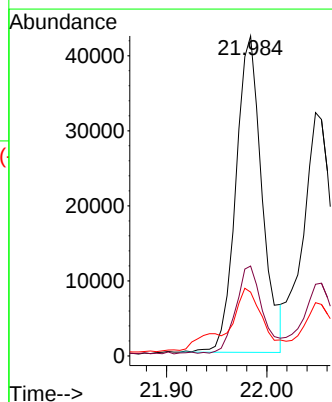
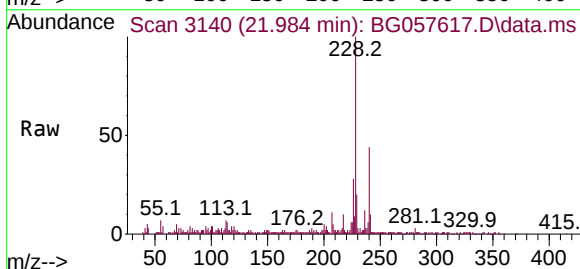
APPROVED

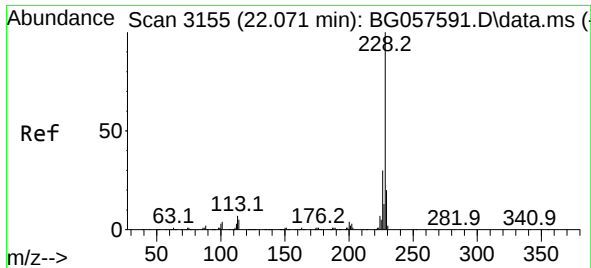
Reviewed By :Yogesh Patel 06/01/2023
 Supervised By :mohammad ahmed 06/01/2023



#81
 Benzo(a)anthracene
 Concen: 7.510 ng
 RT: 21.984 min Scan# 3140
 Delta R.T. 0.006 min
 Lab File: BG057617.D
 Acq: 30 May 2023 22:18

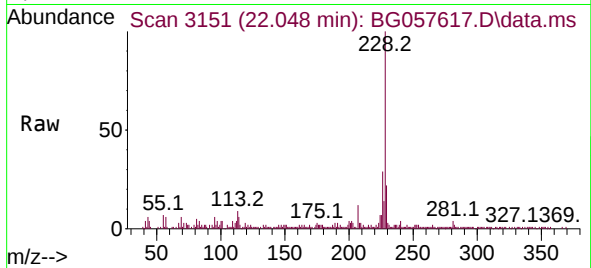
Tgt Ion:228 Resp: 76350
 Ion Ratio Lower Upper
 228 100
 226 28.1 21.4 32.0
 229 19.9 15.4 23.2





#83
Chrysene
Concen: 6.715 ng
RT: 22.048 min Scan# 3155
Delta R.T. -0.006 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

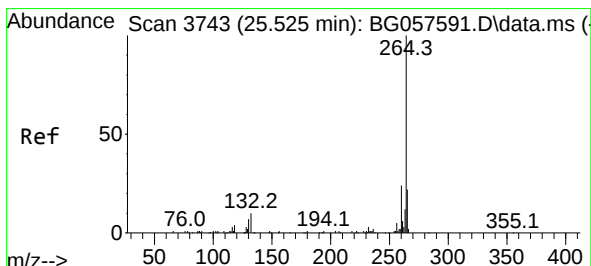
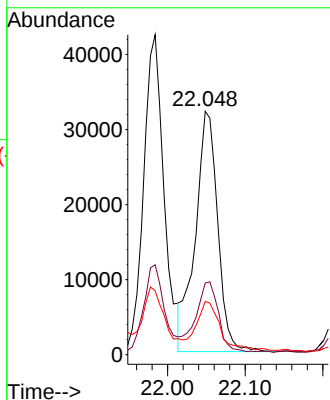
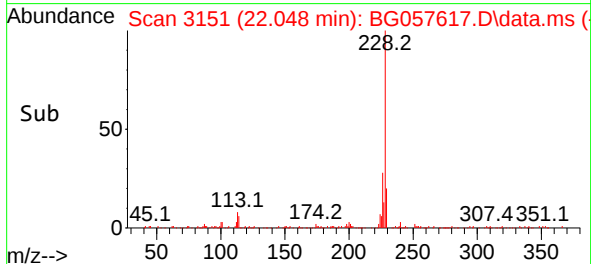
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-2



Tgt Ion:228 Resp: 64515
Ion Ratio Lower Upper
228 100
226 29.5 24.3 36.5
229 21.9 16.0 24.0

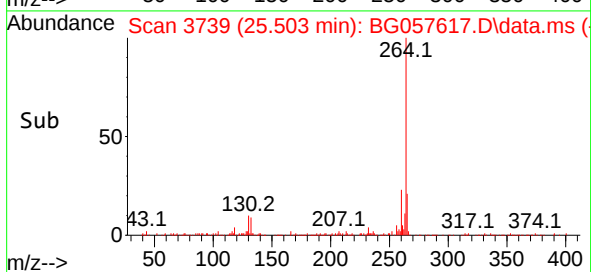
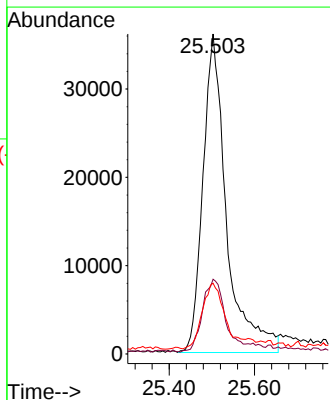
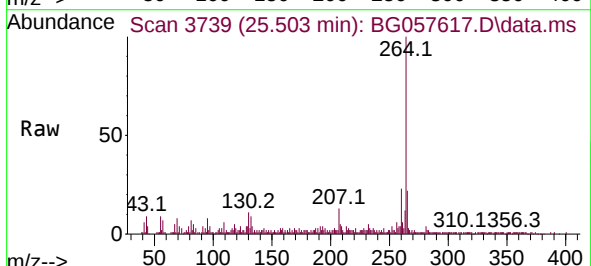
Manual Integrations
APPROVED

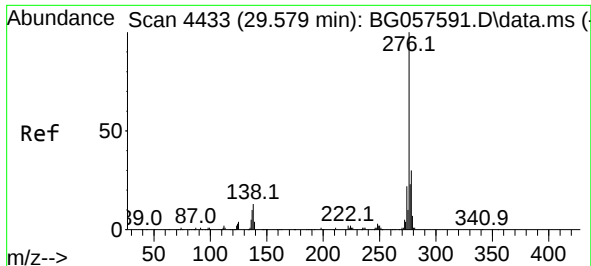
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 25.503 min Scan# 3739
Delta R.T. 0.011 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

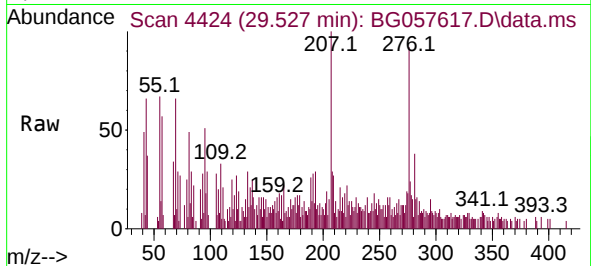
Tgt Ion:264 Resp: 138633
Ion Ratio Lower Upper
264 100
260 23.4 19.1 28.7
265 22.1 17.7 26.5





#87
Indeno(1,2,3-cd)pyrene
Concen: 2.143 ng m
RT: 29.527 min Scan# 4433
Delta R.T. 0.006 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

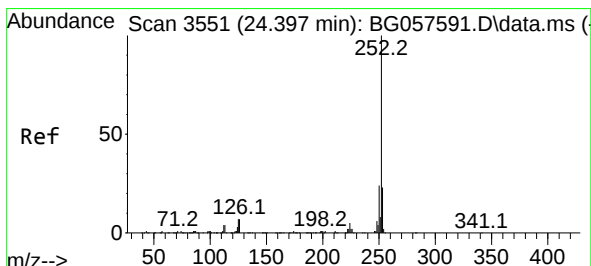
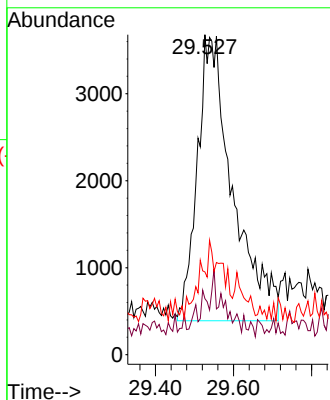
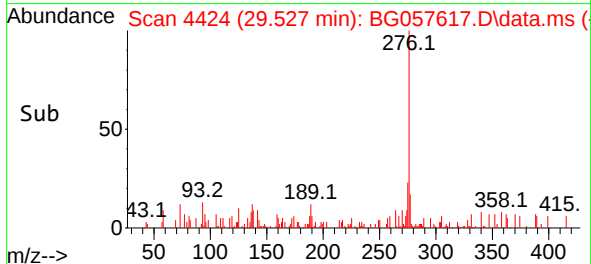
Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-2



Tgt Ion: 276 Resp: 20718
Ion Ratio Lower Upper
276 100
138 1.7 12.3 18.5
277 5.7 20.5 30.7

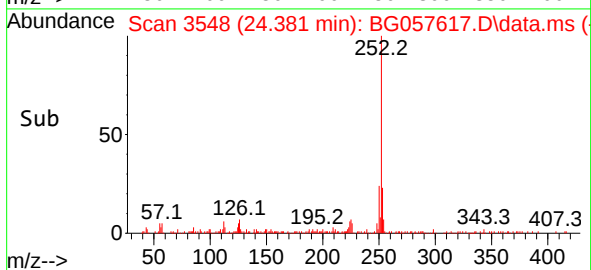
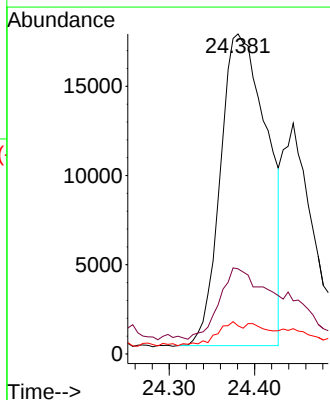
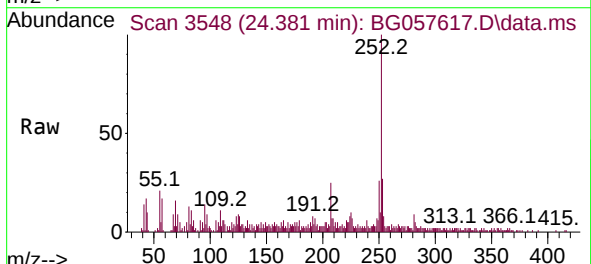
Manual Integrations
APPROVED

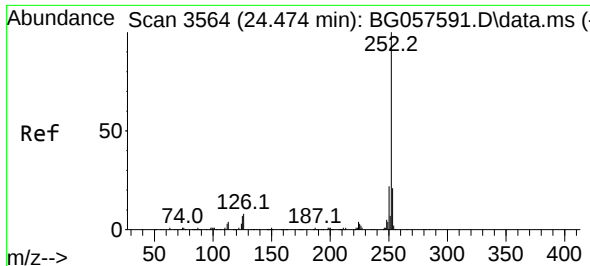
Reviewed By : Yogesh Patel 06/01/2023
Supervised By : mohammad ahmed 06/01/2023



#88
Benzo(b)fluoranthene
Concen: 7.777 ng
RT: 24.381 min Scan# 3548
Delta R.T. 0.006 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

Tgt Ion: 252 Resp: 66364
Ion Ratio Lower Upper
252 100
253 26.6 18.4 27.6
125 8.8 5.2 7.8





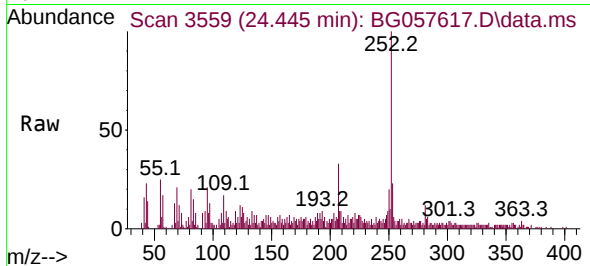
#89
Benzo(k)fluoranthene
Concen: 4.151 ng m
RT: 24.445 min Scan# 3559
Delta R.T. -0.000 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

Instrument :

BNA_G

ClientSampleId :

PNNL-RH-524-2

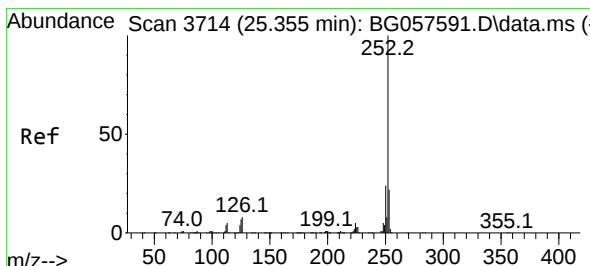
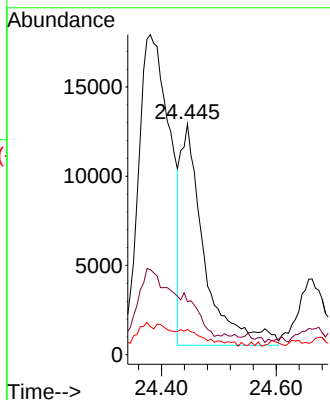
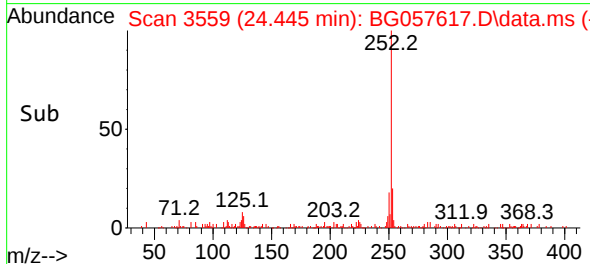


Tgt Ion:252 Resp: 3574
Ion Ratio Lower Upper
252 100
253 23.0 17.0 25.6
125 11.0 5.1 7.7

Manual Integrations

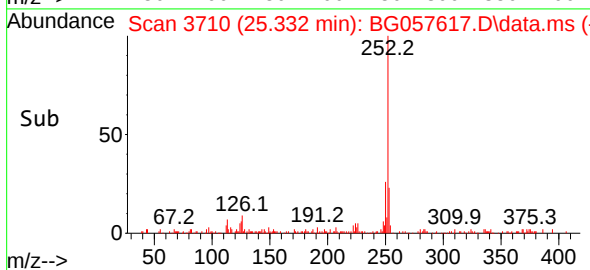
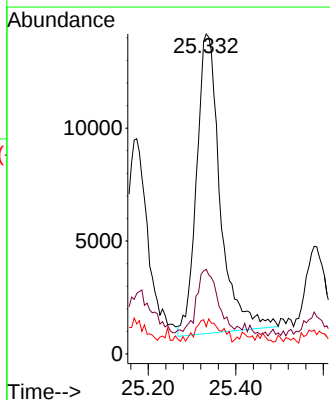
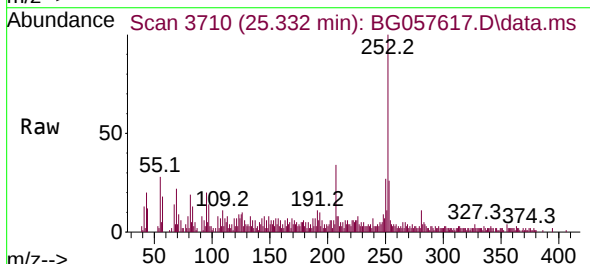
APPROVED

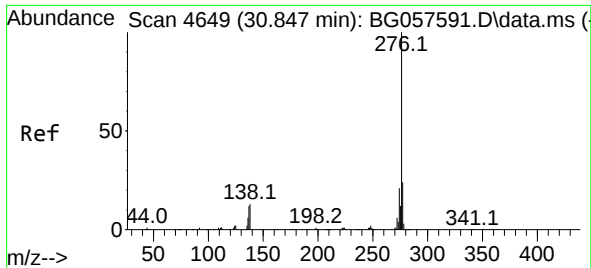
Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023



#90
Benzo(a)pyrene
Concen: 6.008 ng
RT: 25.332 min Scan# 3710
Delta R.T. 0.006 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

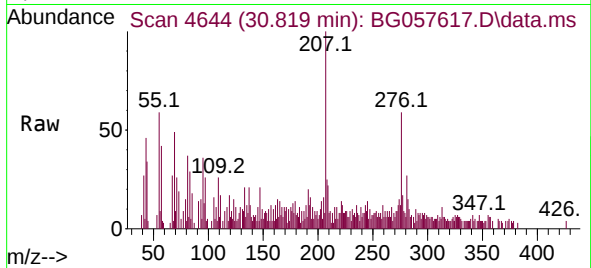
Tgt Ion:252 Resp: 49994
Ion Ratio Lower Upper
252 100
253 26.5 17.7 26.5
125 8.6 5.3 7.9





#92
Benzo(g,h,i)perylene
Concen: 2.256 ng m
RT: 30.819 min Scan# 4
Delta R.T. 0.017 min
Lab File: BG057617.D
Acq: 30 May 2023 22:18

Instrument :
BNA_G
ClientSampleId :
PNNL-RH-524-2



Tgt Ion:276 Resp: 17690
Ion Ratio Lower Upper
276 100
277 28.9 18.9 28.3
138 20.2 10.2 15.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/01/2023
Supervised By :mohammad ahmed 06/01/2023

