

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG053023\
 Data File : BG057609.D
 Acq On : 30 May 2023 16:49
 Operator : CG/JU
 Sample : 02955-01
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SB27

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 05/31/2023
 Supervised By : Yogesh Patel 06/01/2023

Quant Time: May 31 03:28:39 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	8.340	152	15504	20.000	ng	0.00
21) Naphthalene-d8	11.177	136	70687	20.000	ng	0.00
39) Acenaphthene-d10	14.960	164	61634	20.000	ng	0.00
64) Phenanthrene-d10	17.697	188	166936	20.000	ng	0.00
76) Chrysene-d12	22.003	240	151897	20.000	ng	0.00
86) Perylene-d12	25.493	264	165616	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.861	112	131224	147.044	ng	0.00
7) Phenol-d6	7.488	99	198039	141.799	ng	0.00
23) Nitrobenzene-d5	9.520	82	122157	80.784	ng	0.00
42) 2,4,6-Tribromophenol	16.440	330	123563	125.219	ng	0.00
45) 2-Fluorobiphenyl	13.579	172	308464	71.924	ng	0.00
79) Terphenyl-d14	20.265	244	669110	76.305	ng	0.00
Target Compounds						Qvalue
49) Acenaphthylene	14.696	152	17010m	3.027	ng	
58) Fluorene	16.000	166	13257	2.673	ng	98
71) Phenanthrene	17.739	178	55526	6.500	ng	97
72) Anthracene	17.833	178	20389	2.327	ng	97
75) Fluoranthene	19.730	202	318460	28.715	ng	100
78) Pyrene	20.088	202	304683	28.171	ng	99
81) Benzo(a)anthracene	21.980	228	215436	20.444	ng	97
83) Chrysene	22.050	228	202234m	20.308	ng	
87) Indeno(1,2,3-cd)pyrene	29.511	276	153166	13.265	ng	98
88) Benzo(b)fluoranthene	24.371	252	339501	33.303	ng	99
89) Benzo(k)fluoranthene	24.435	252	103152m	10.026	ng	
90) Benzo(a)pyrene	25.322	252	223322	22.464	ng	99
91) Dibenzo(a,h)anthracene	29.546	278	51181m	5.326	ng	
92) Benzo(g,h,i)perylene	30.786	276	137720	14.695	ng	99

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

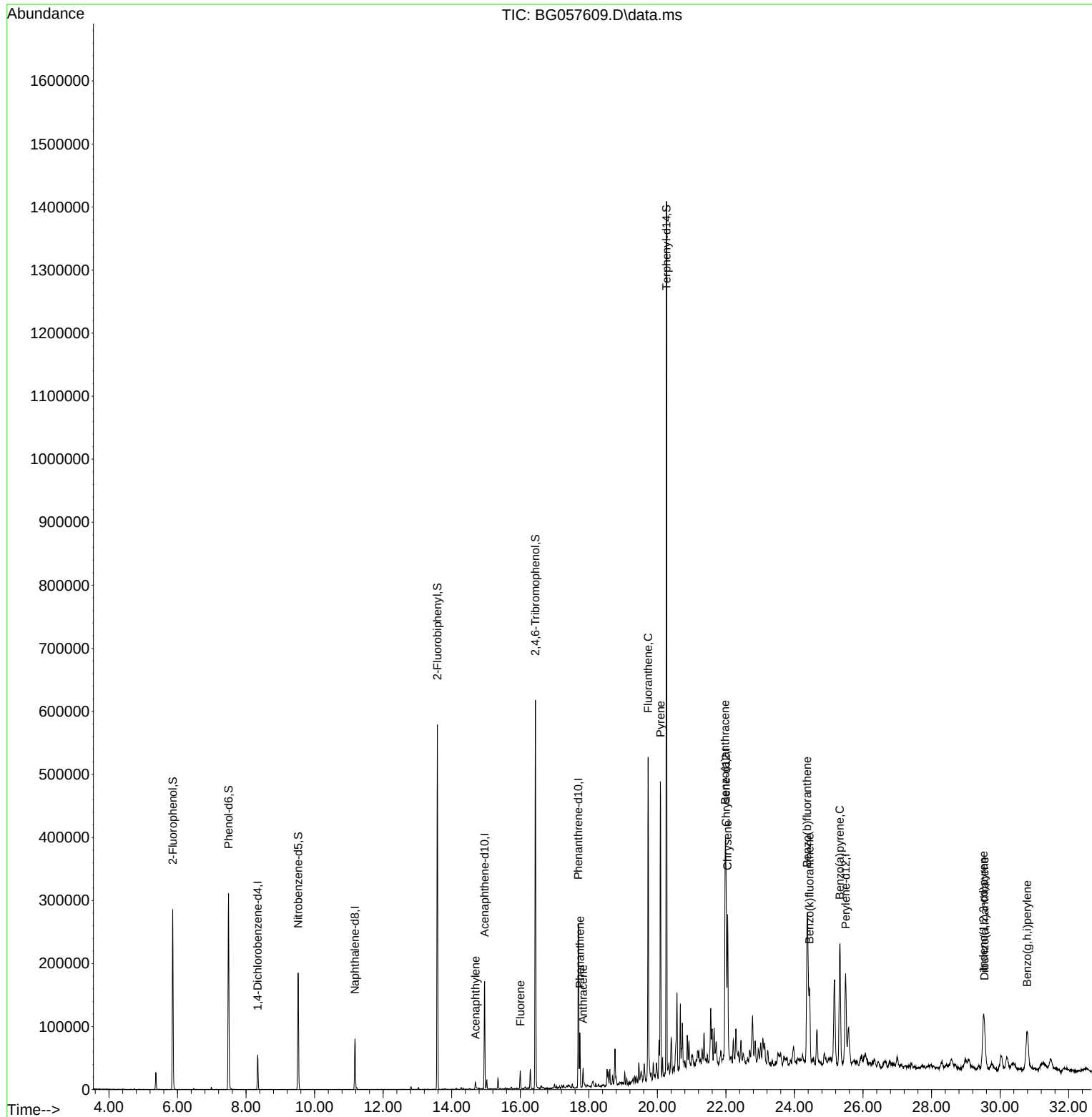
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG053023\
Data File : BG057609.D
Acq On : 30 May 2023 16:49
Operator : CG/JU
Sample : 02955-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

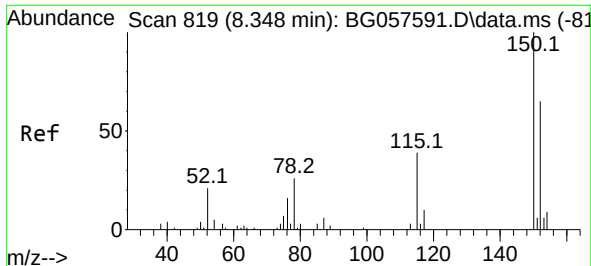
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Quant Time: May 31 03:28:39 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG052723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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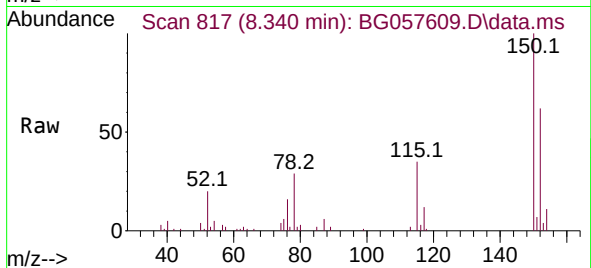
Reviewed By : Christian Giraldo 05/31/2023
Supervised By : Yogesh Patel 06/01/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.340 min Scan# 819
Delta R.T. -0.004 min
Lab File: BG057609.D
Acq: 30 May 2023 16:49

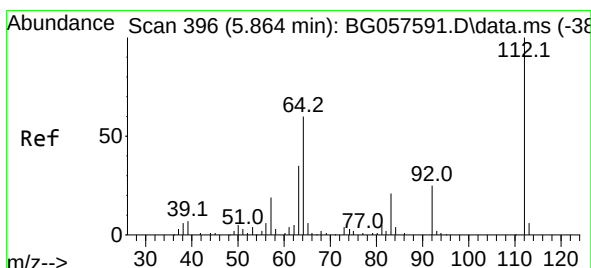
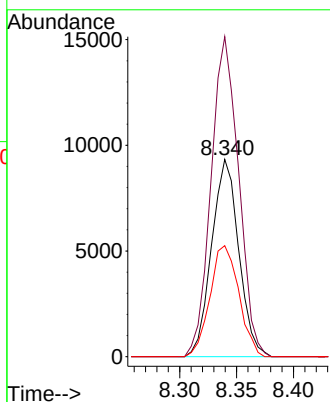
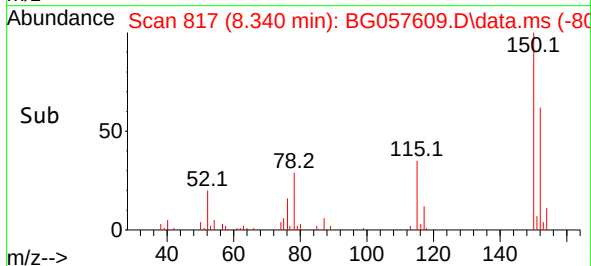
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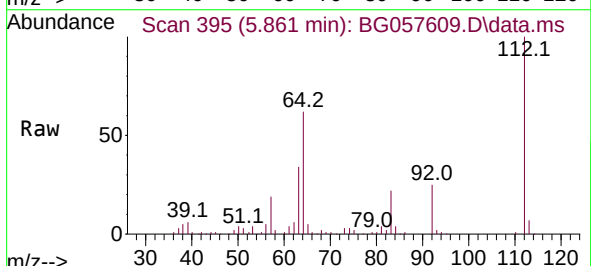
Tgt Ion:152 Resp: 15504
Ion Ratio Lower Upper
152 100
150 162.2 123.0 184.4
115 56.3 47.4 71.2

Manual Integrations
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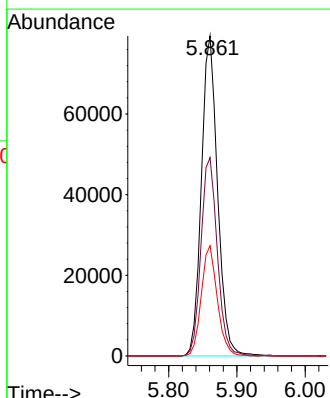
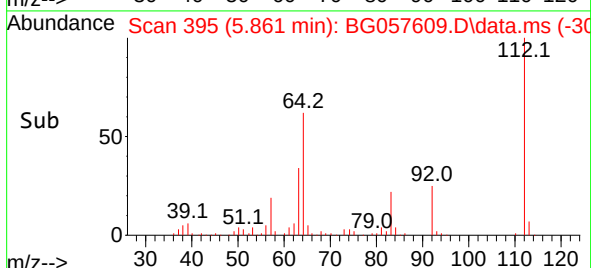
Reviewed By :Christian Giraldo 05/31/2023
Supervised By :Yogesh Patel 06/01/2023

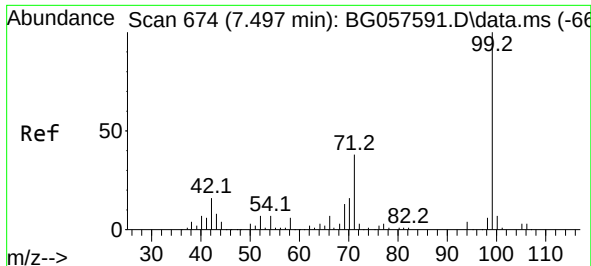


#5
2-Fluorophenol
Concen: 147.044 ng
RT: 5.861 min Scan# 395
Delta R.T. 0.002 min
Lab File: BG057609.D
Acq: 30 May 2023 16:49



Tgt Ion:112 Resp: 131224
Ion Ratio Lower Upper
112 100
64 62.0 47.8 71.6
63 34.5 27.8 41.8





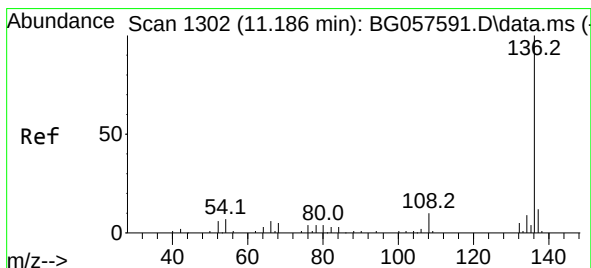
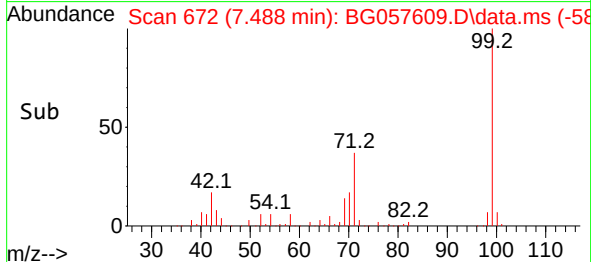
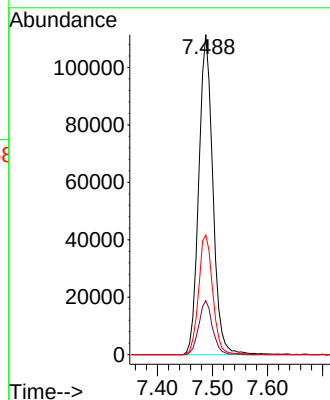
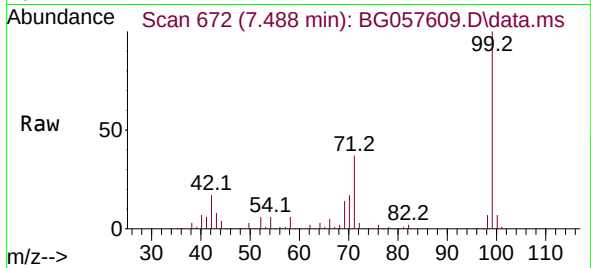
#7
Phenol-d6
Concen: 141.799 ng
RT: 7.488 min Scan# 61
Delta R.T. 0.002 min
Lab File: BG057609.D
Acq: 30 May 2023 16:49

Instrument :
BNA_G
ClientSampleId :
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Tgt Ion: 99 Resp: 198039
Ion Ratio Lower Upper
99 100
42 16.9 12.8 19.2
71 37.4 30.3 45.5

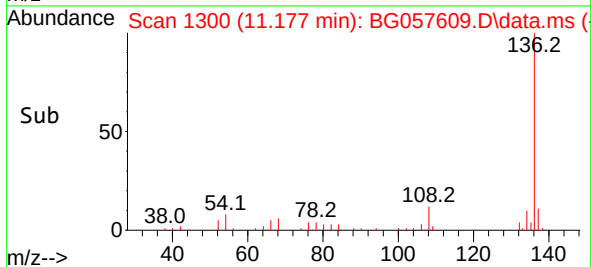
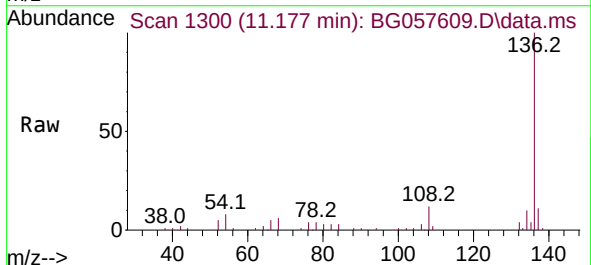
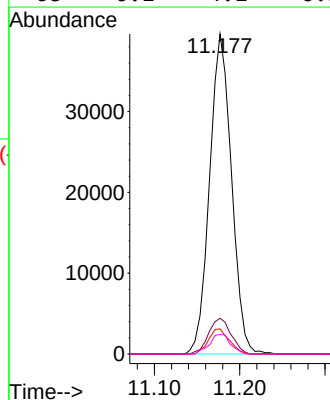
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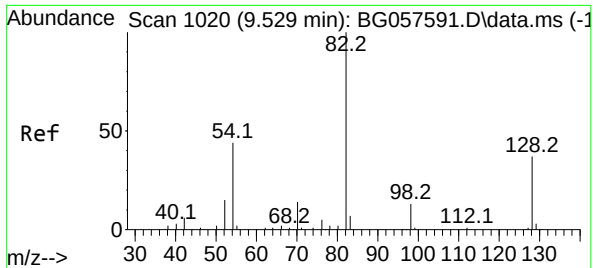
Reviewed By :Christian Giraldo 05/31/2023
Supervised By :Yogesh Patel 06/01/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.177 min Scan# 1300
Delta R.T. 0.002 min
Lab File: BG057609.D
Acq: 30 May 2023 16:49

Tgt Ion:136 Resp: 70687
Ion Ratio Lower Upper
136 100
137 11.1 9.8 14.8
54 7.9 5.8 8.6
68 6.1 4.1 6.1





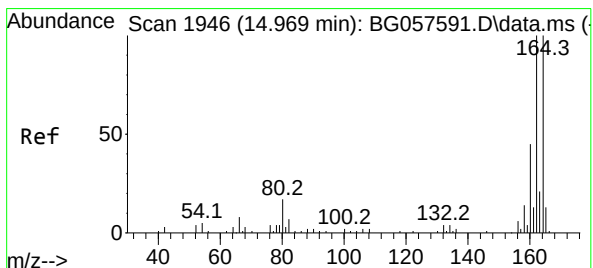
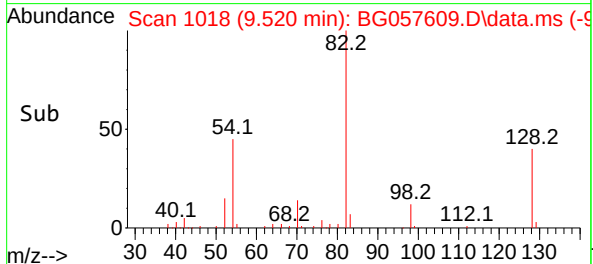
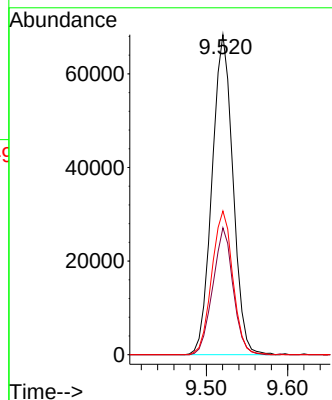
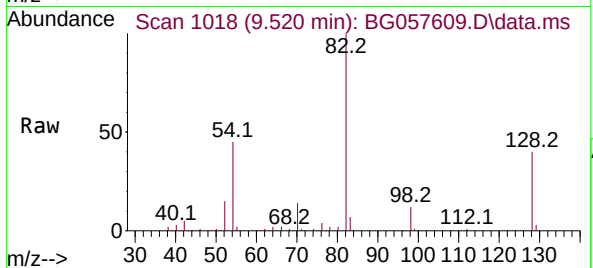
#23
Nitrobenzene-d5
Concen: 80.784 ng
RT: 9.520 min Scan# 1018
Delta R.T. -0.004 min
Lab File: BG057609.D
Acq: 30 May 2023 16:49

Instrument :
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ClientSampleId :
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Tgt Ion: 82 Resp: 12215
Ion Ratio Lower Upper
82 100
128 39.7 30.0 45.0
54 44.9 35.2 52.8

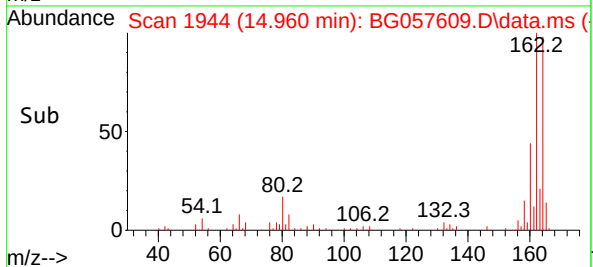
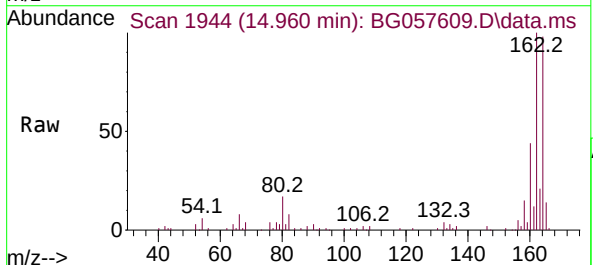
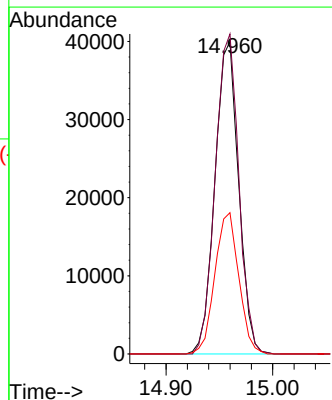
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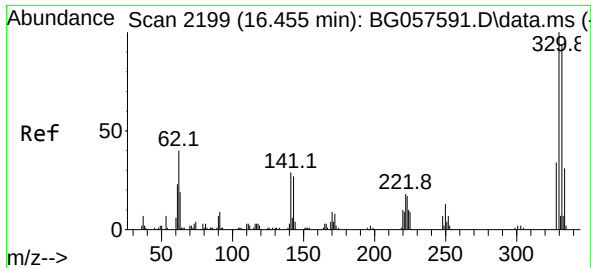
Reviewed By :Christian Giraldo 05/31/2023
Supervised By :Yogesh Patel 06/01/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.960 min Scan# 1944
Delta R.T. 0.002 min
Lab File: BG057609.D
Acq: 30 May 2023 16:49

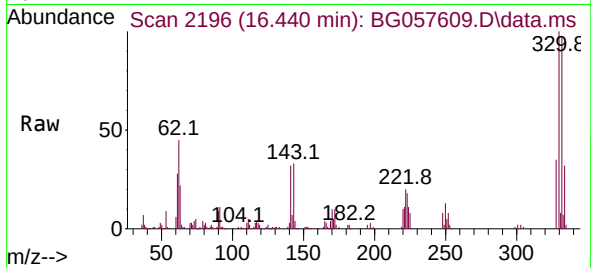
Tgt Ion:164 Resp: 61634
Ion Ratio Lower Upper
164 100
162 102.5 80.1 120.1
160 45.3 35.9 53.9





#42
2,4,6-Tribromophenol
Concen: 125.219 ng
RT: 16.440 min Scan# 2199
Delta R.T. -0.004 min
Lab File: BG057609.D
Acq: 30 May 2023 16:49

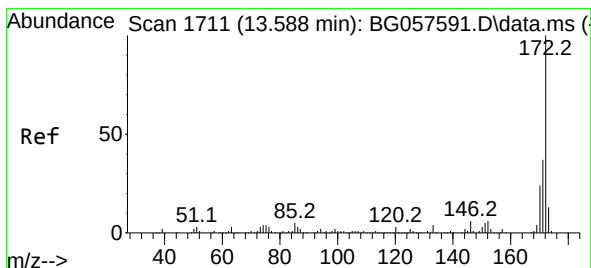
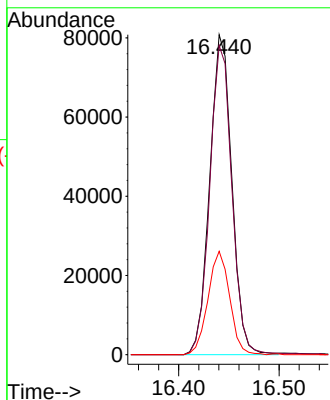
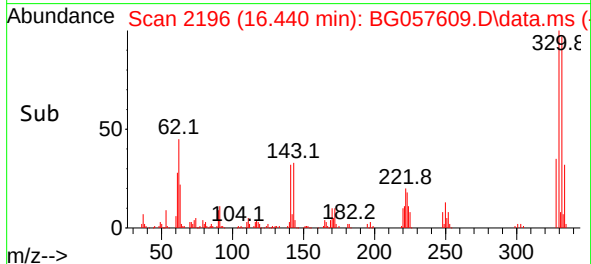
Instrument :
BNA_G
ClientSampleId :
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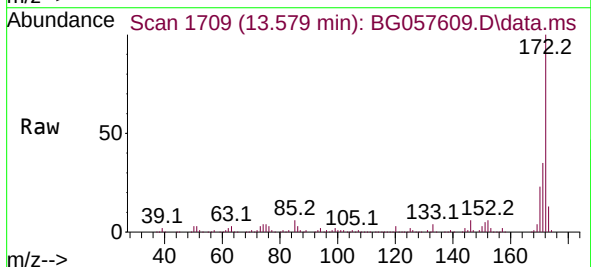
Tgt Ion:330 Resp: 12356
Ion Ratio Lower Upper
330 100
332 97.3 77.3 115.9
141 31.7 24.6 37.0

Manual Integrations
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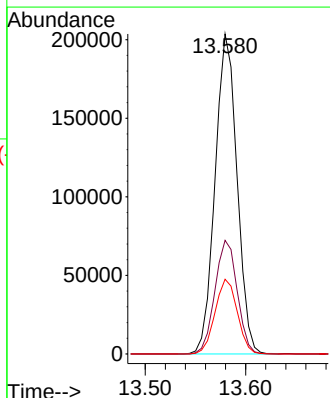
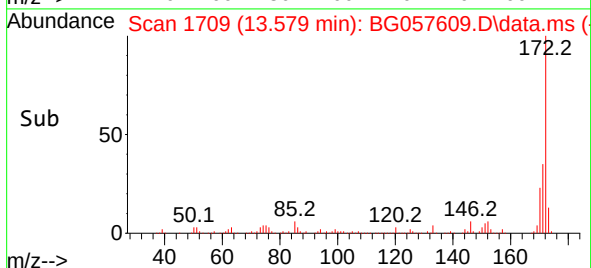
Reviewed By :Christian Giraldo 05/31/2023
Supervised By :Yogesh Patel 06/01/2023

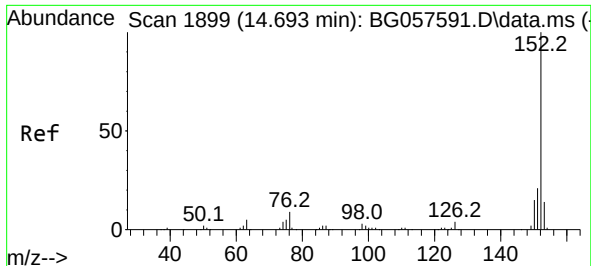


#45
2-Fluorobiphenyl
Concen: 71.924 ng
RT: 13.579 min Scan# 1709
Delta R.T. -0.004 min
Lab File: BG057609.D
Acq: 30 May 2023 16:49



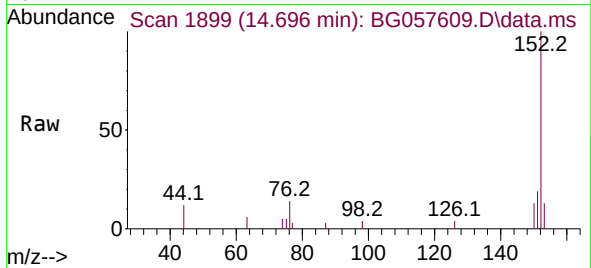
Tgt Ion:172 Resp: 308464
Ion Ratio Lower Upper
172 100
171 35.5 29.2 43.8
170 23.4 19.0 28.4





#49
Acenaphthylene
Concen: 3.027 ng m
RT: 14.696 min Scan# 1899
Delta R.T. 0.008 min
Lab File: BG057609.D
Acq: 30 May 2023 16:49

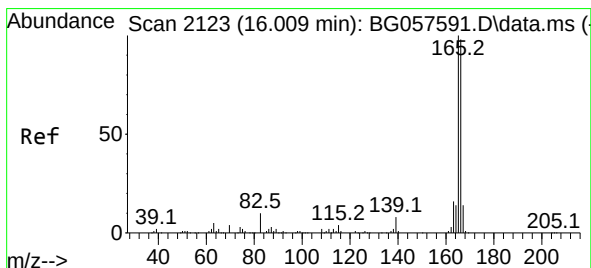
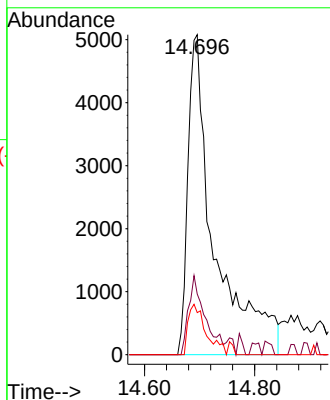
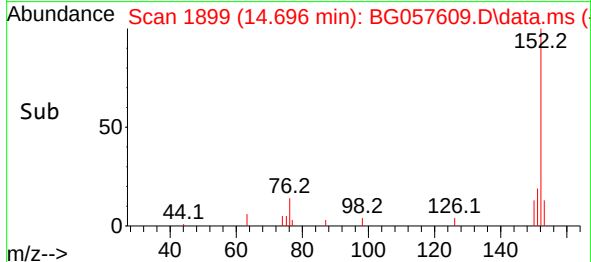
Instrument :
BNA_G
ClientSampleId :
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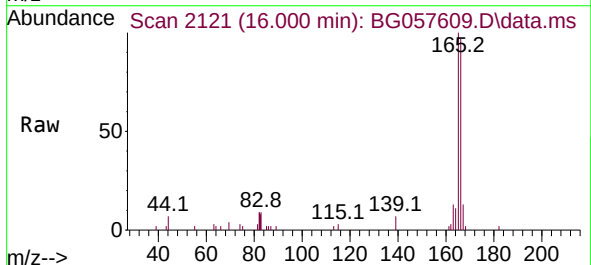
Tgt Ion:152 Resp: 17010
Ion Ratio Lower Upper
152 100
151 19.0 16.5 24.7
153 13.2 11.0 16.4

Manual Integrations
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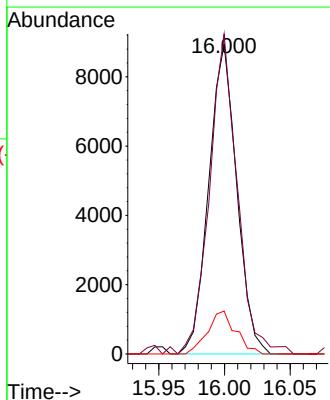
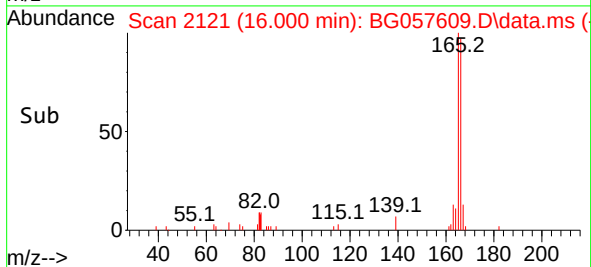
Reviewed By :Christian Giraldo 05/31/2023
Supervised By :Yogesh Patel 06/01/2023

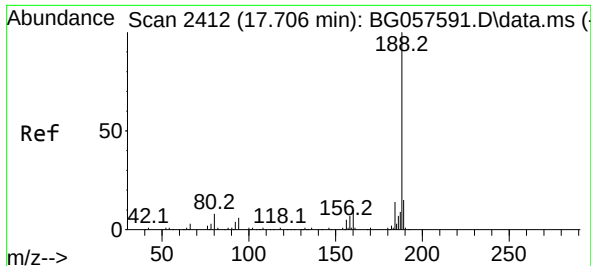


#58
Fluorene
Concen: 2.673 ng
RT: 16.000 min Scan# 2121
Delta R.T. 0.002 min
Lab File: BG057609.D
Acq: 30 May 2023 16:49



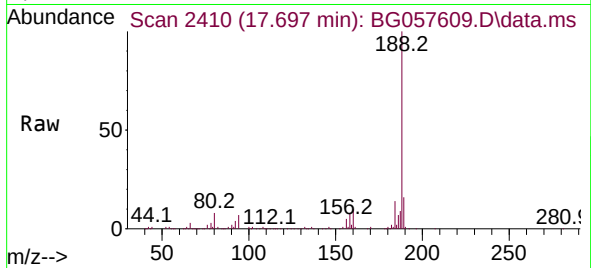
Tgt Ion:166 Resp: 13257
Ion Ratio Lower Upper
166 100
165 103.3 81.2 121.8
167 13.9 11.1 16.7





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.697 min Scan# 2412
Delta R.T. 0.002 min
Lab File: BG057609.D
Acq: 30 May 2023 16:49

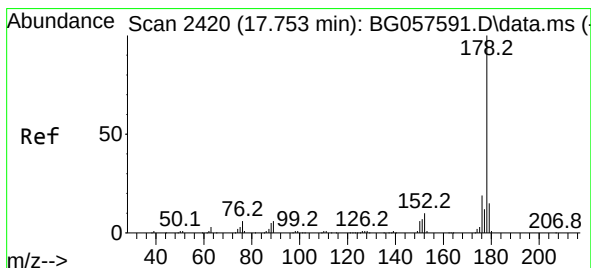
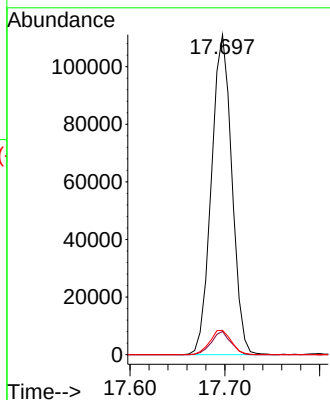
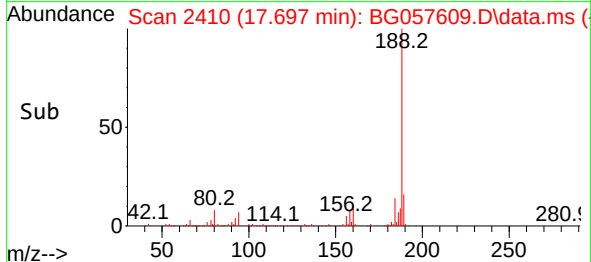
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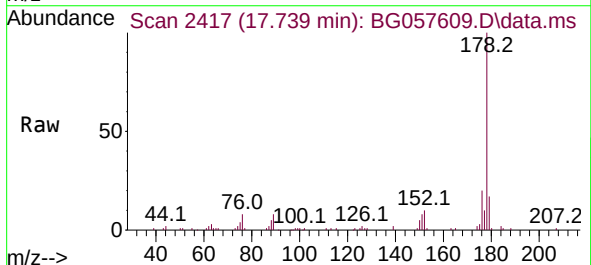
Tgt Ion:188 Resp: 166930
Ion Ratio Lower Upper
188 100
94 7.2 5.2 7.8
80 7.6 6.7 10.1

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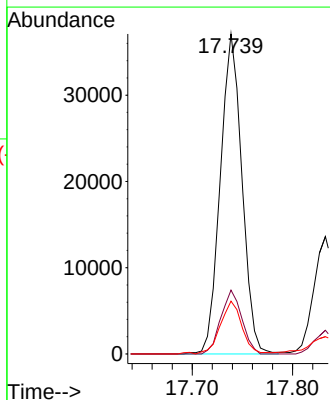
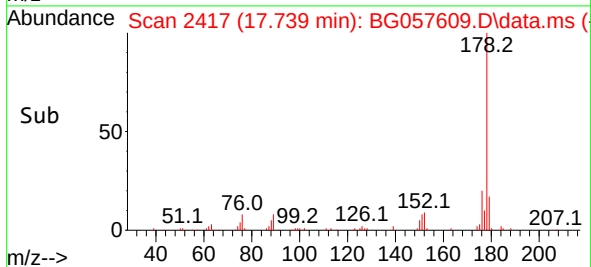
Reviewed By :Christian Giraldo 05/31/2023
Supervised By :Yogesh Patel 06/01/2023

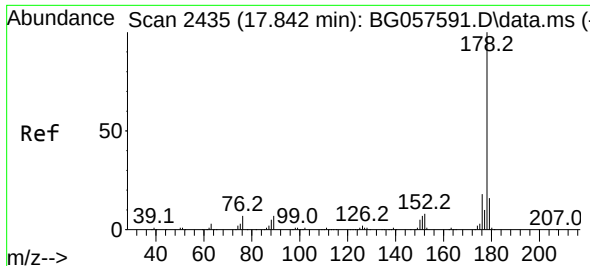


#71
Phenanthrene
Concen: 6.500 ng
RT: 17.739 min Scan# 2417
Delta R.T. -0.004 min
Lab File: BG057609.D
Acq: 30 May 2023 16:49



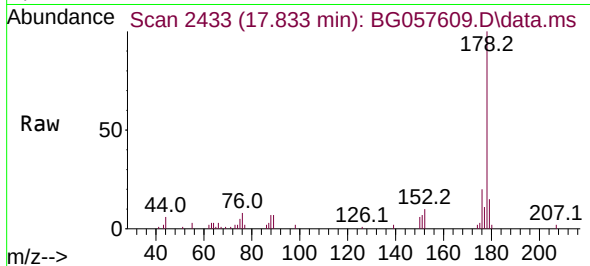
Tgt Ion:178 Resp: 55526
Ion Ratio Lower Upper
178 100
176 19.9 15.3 22.9
179 16.5 12.0 18.0





#72
 Anthracene
 Concen: 2.327 ng
 RT: 17.833 min Scan# 2435
 Delta R.T. 0.002 min
 Lab File: BG057609.D
 Acq: 30 May 2023 16:49

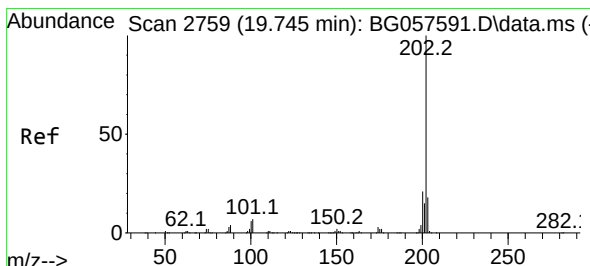
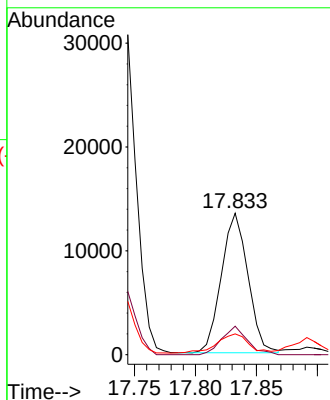
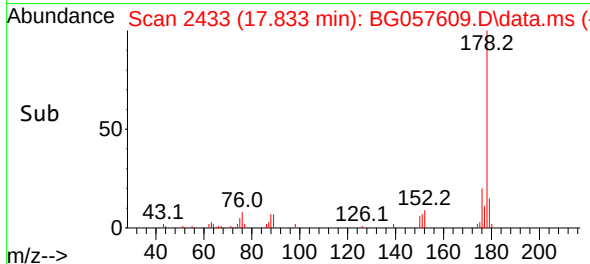
Instrument :
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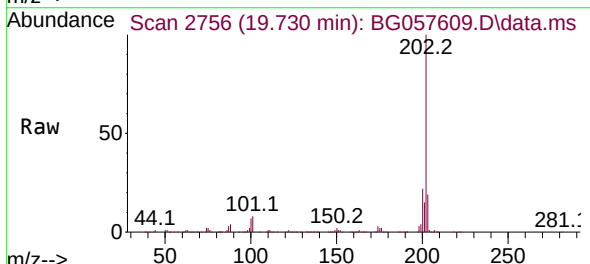
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 Ion Ratio Lower Upper
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 176 20.1 14.6 22.0
 179 14.7 12.6 18.8

Manual Integrations
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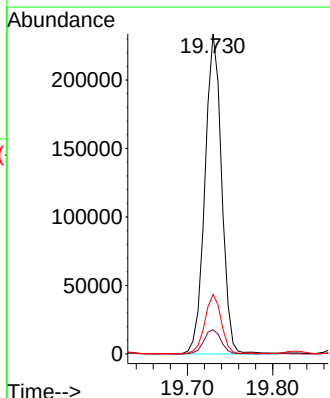
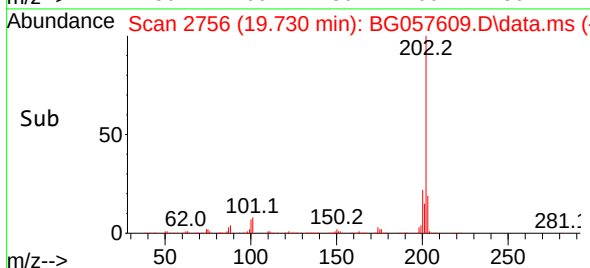
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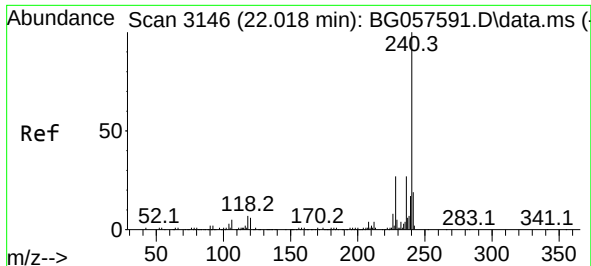


#75
 Fluoranthene
 Concen: 28.715 ng
 RT: 19.730 min Scan# 2756
 Delta R.T. 0.002 min
 Lab File: BG057609.D
 Acq: 30 May 2023 16:49



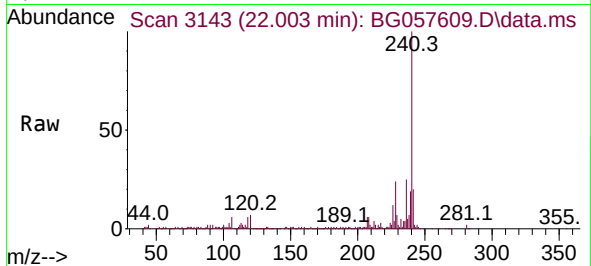
Tgt Ion:202 Resp: 318460
 Ion Ratio Lower Upper
 202 100
 101 7.6 0.0 27.5
 203 18.6 0.0 38.4





#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.003 min Scan# 3146
Delta R.T. 0.002 min
Lab File: BG057609.D
Acq: 30 May 2023 16:49

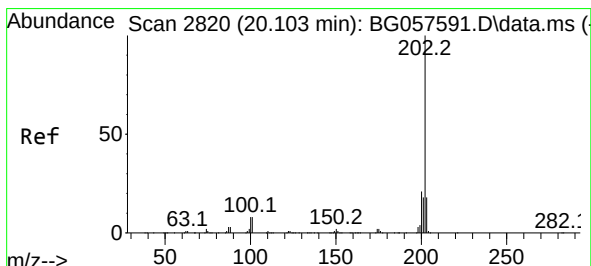
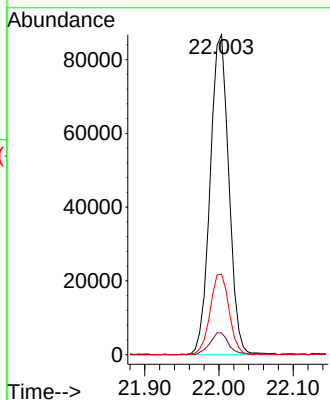
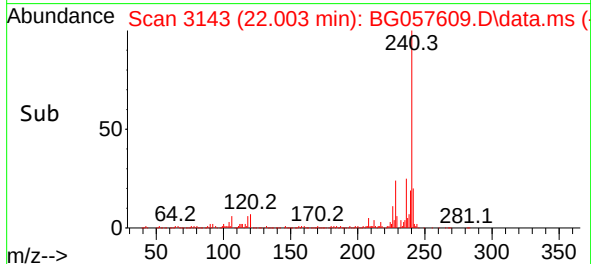
Instrument :
BNA_G
ClientSampleId :
SB27



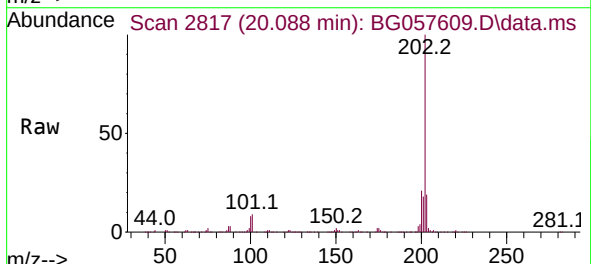
Tgt Ion:240 Resp: 15189
Ion Ratio Lower Upper
240 100
120 6.8 5.2 7.8
236 25.2 21.4 32.0

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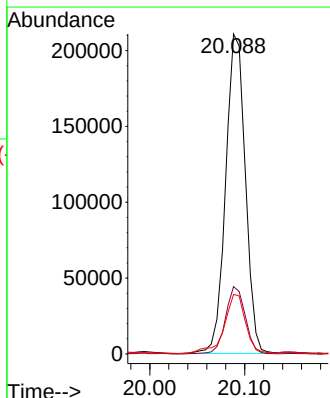
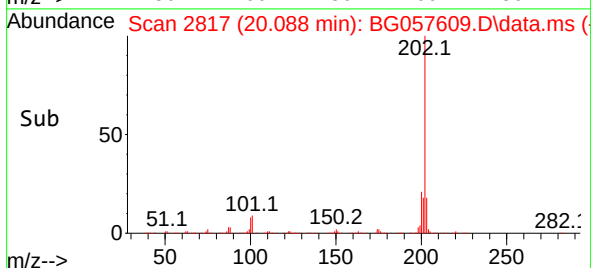
Reviewed By :Christian Giraldo 05/31/2023
Supervised By :Yogesh Patel 06/01/2023

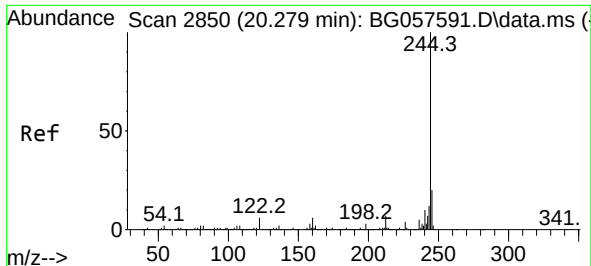


#78
Pyrene
Concen: 28.171 ng
RT: 20.088 min Scan# 2817
Delta R.T. -0.004 min
Lab File: BG057609.D
Acq: 30 May 2023 16:49



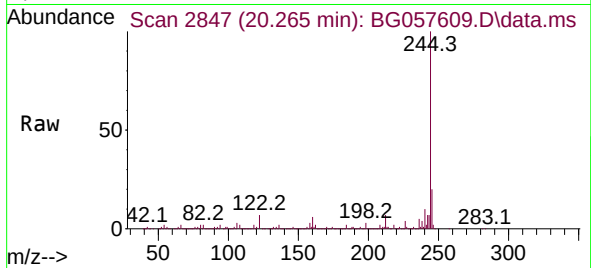
Tgt Ion:202 Resp: 304683
Ion Ratio Lower Upper
202 100
200 21.1 16.8 25.2
203 18.6 14.5 21.7





#79
 Terphenyl-d14
 Concen: 76.305 ng
 RT: 20.265 min Scan# 21
 Delta R.T. -0.004 min
 Lab File: BG057609.D
 Acq: 30 May 2023 16:49

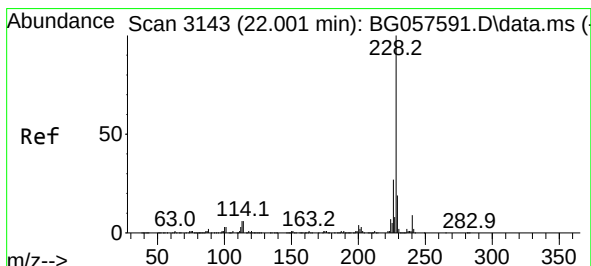
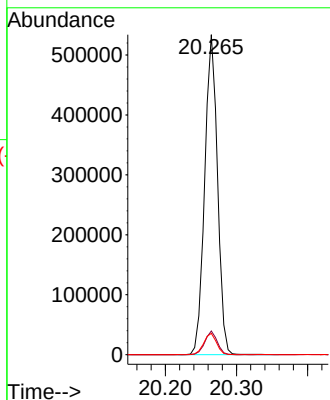
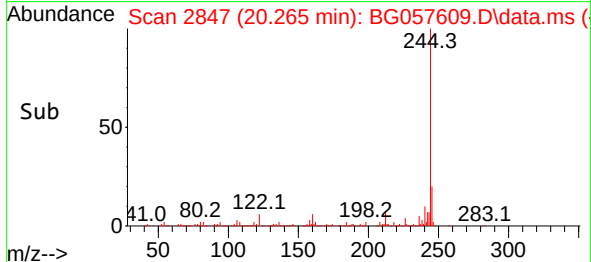
Instrument :
 BNA_G
 ClientSampleId :
 SB27



Tgt Ion:244 Resp: 669110
 Ion Ratio Lower Upper
 244 100
 212 7.4 5.6 8.4
 122 6.6 4.8 7.2

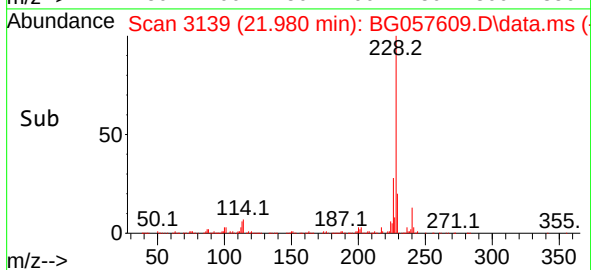
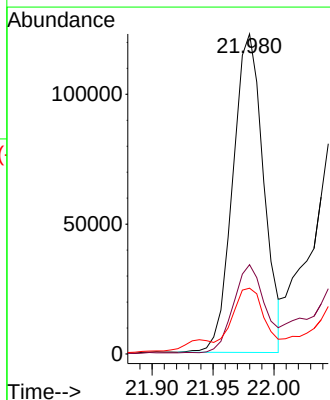
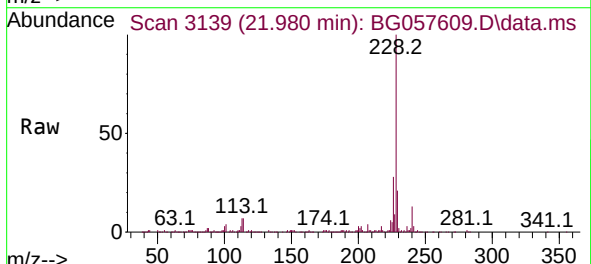
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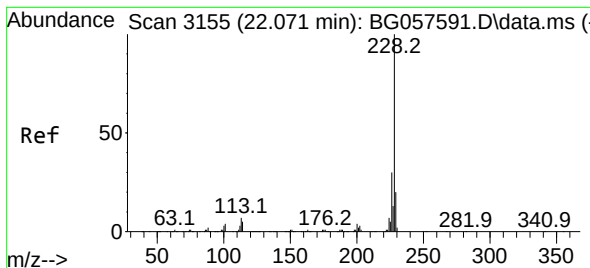
Reviewed By :Christian Giraldo 05/31/2023
 Supervised By :Yogesh Patel 06/01/2023



#81
 Benzo(a)anthracene
 Concen: 20.444 ng
 RT: 21.980 min Scan# 3139
 Delta R.T. 0.002 min
 Lab File: BG057609.D
 Acq: 30 May 2023 16:49

Tgt Ion:228 Resp: 215436
 Ion Ratio Lower Upper
 228 100
 226 27.9 21.4 32.0
 229 20.6 15.4 23.2





#83

Chrysene

Concen: 20.308 ng m

RT: 22.050 min Scan# 31

Delta R.T. -0.004 min

Lab File: BG057609.D

Acq: 30 May 2023 16:49

Instrument :

BNA_G

ClientSampleId :

SB27

Tgt Ion:228 Resp: 202234

Ion Ratio Lower Upper

228 100

226 30.3 24.3 36.5

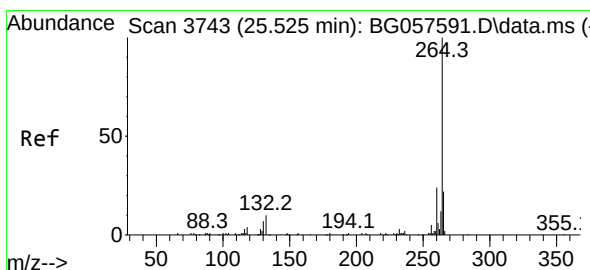
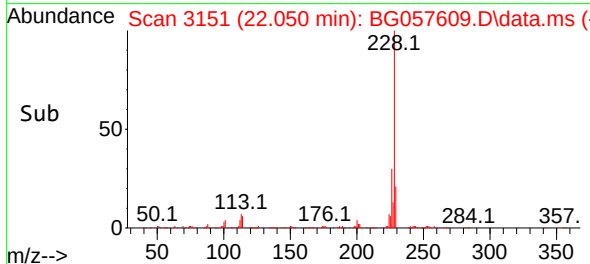
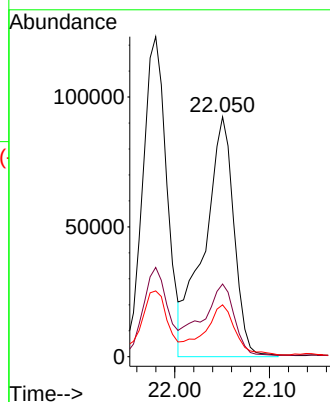
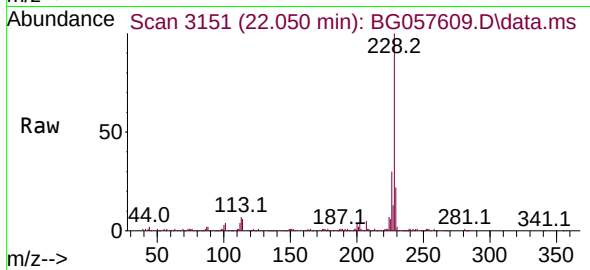
229 21.6 16.0 24.0

Manual Integrations

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Reviewed By :Christian Giraldo 05/31/2023

Supervised By :Yogesh Patel 06/01/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.493 min Scan# 3737

Delta R.T. 0.002 min

Lab File: BG057609.D

Acq: 30 May 2023 16:49

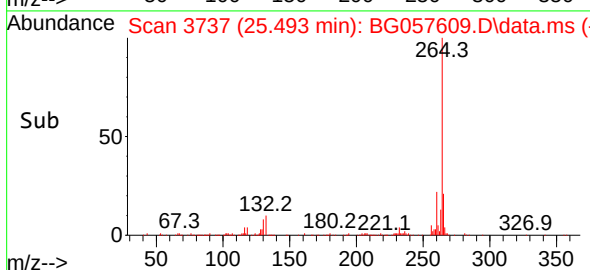
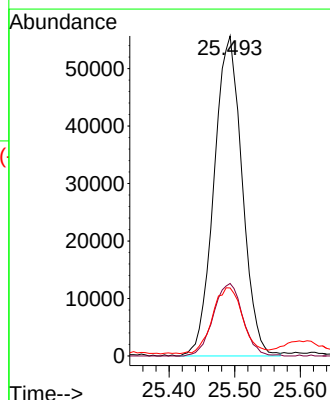
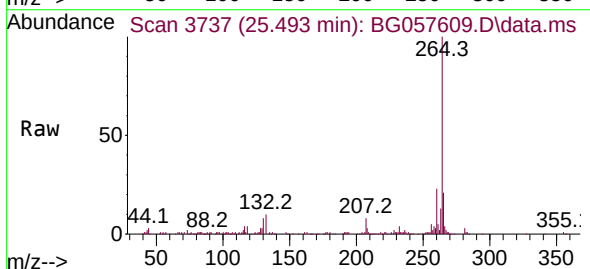
Tgt Ion:264 Resp: 165616

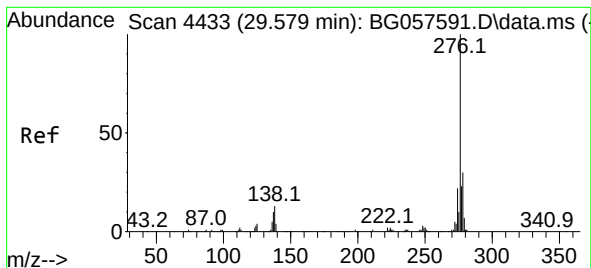
Ion Ratio Lower Upper

264 100

260 22.6 19.1 28.7

265 21.2 17.7 26.5





#87

Indeno(1,2,3-cd)pyrene

Concen: 13.265 ng

RT: 29.511 min Scan# 4433

Delta R.T. -0.010 min

Lab File: BG057609.D

Acq: 30 May 2023 16:49

Instrument :

BNA_G

ClientSampleId :

SB27

Tgt Ion:276 Resp: 153160

Ion Ratio Lower Upper

276 100

138 15.0 12.3 18.5

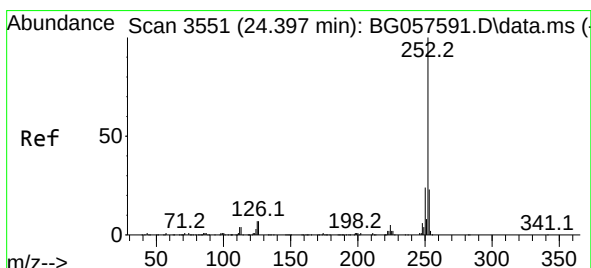
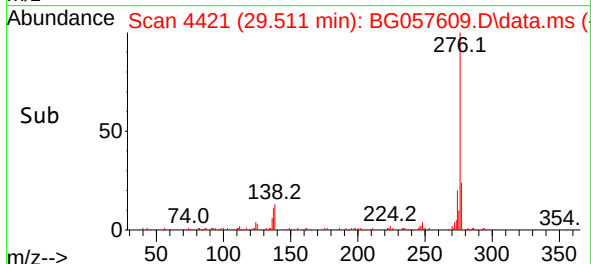
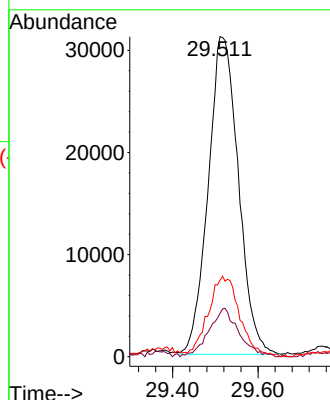
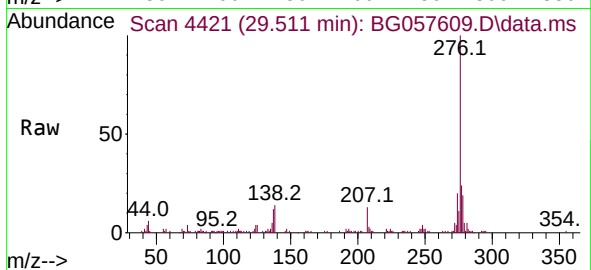
277 26.6 20.5 30.7

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/31/2023

Supervised By :Yogesh Patel 06/01/2023



#88

Benzo(b)fluoranthene

Concen: 33.303 ng

RT: 24.371 min Scan# 3546

Delta R.T. -0.004 min

Lab File: BG057609.D

Acq: 30 May 2023 16:49

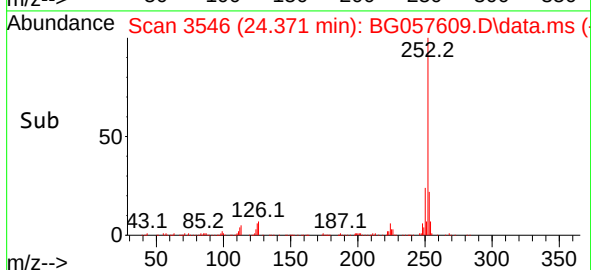
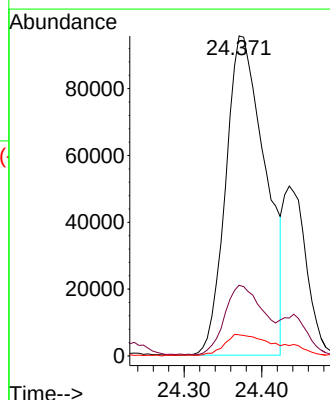
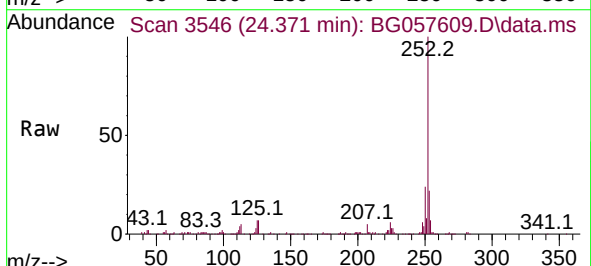
Tgt Ion:252 Resp: 339501

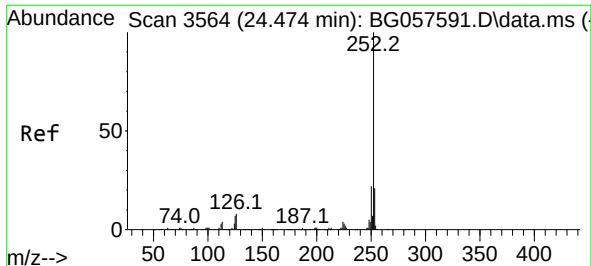
Ion Ratio Lower Upper

252 100

253 22.1 18.4 27.6

125 6.6 5.2 7.8





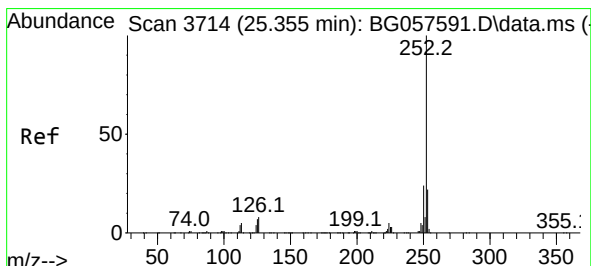
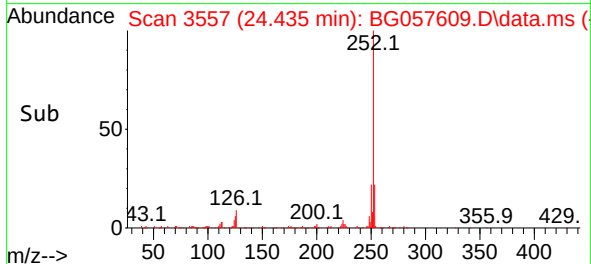
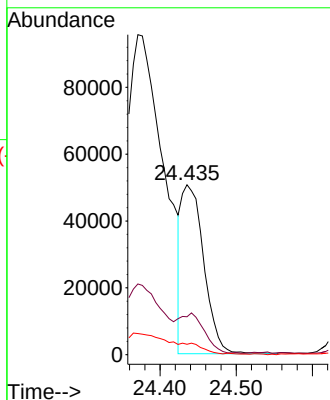
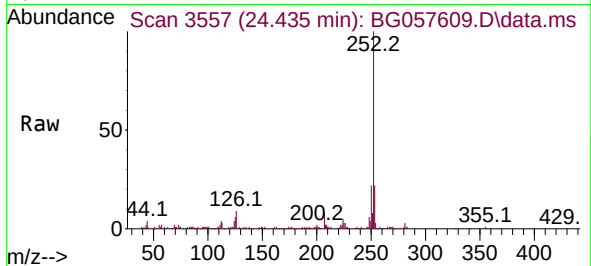
#89
Benzo(k)fluoranthene
Concen: 10.026 ng m
RT: 24.435 min Scan# 31
Delta R.T. -0.010 min
Lab File: BG057609.D
Acq: 30 May 2023 16:49

Instrument :
BNA_G
ClientSampleId :
SB27

Tgt Ion:252 Resp: 103152
Ion Ratio Lower Upper
252 100
253 22.3 17.0 25.6
125 6.1 5.1 7.7

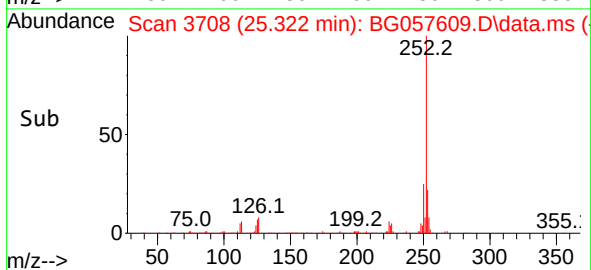
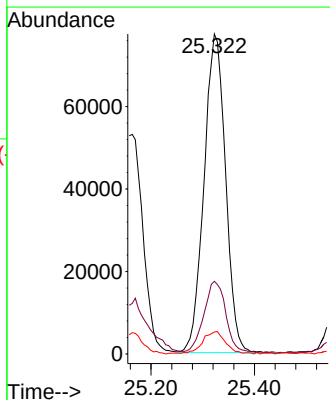
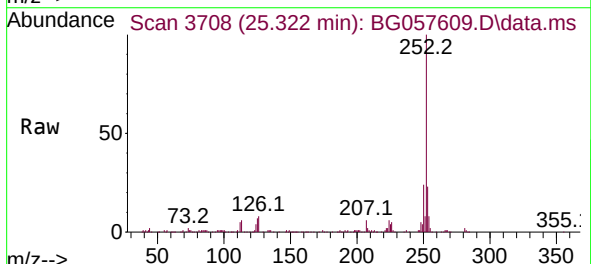
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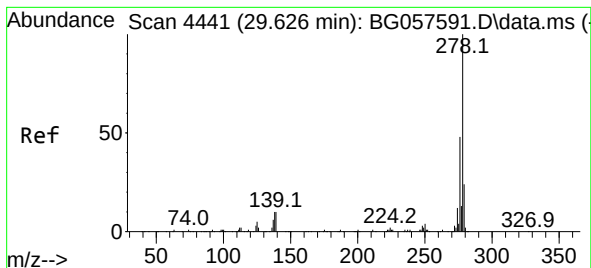
Reviewed By :Christian Giraldo 05/31/2023
Supervised By :Yogesh Patel 06/01/2023



#90
Benzo(a)pyrene
Concen: 22.464 ng
RT: 25.322 min Scan# 3708
Delta R.T. -0.004 min
Lab File: BG057609.D
Acq: 30 May 2023 16:49

Tgt Ion:252 Resp: 223322
Ion Ratio Lower Upper
252 100
253 22.7 17.7 26.5
125 6.8 5.3 7.9





#91

Dibenzo(a,h)anthracene

Concen: 5.326 ng m

RT: 29.546 min Scan# 44

Delta R.T. -0.034 min

Lab File: BG057609.D

Acq: 30 May 2023 16:49

Instrument :

BNA_G

ClientSampleId :

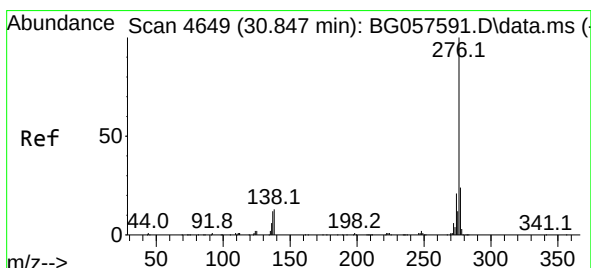
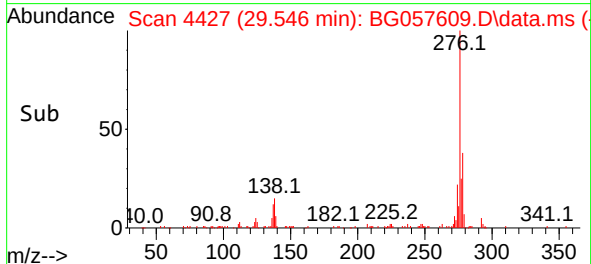
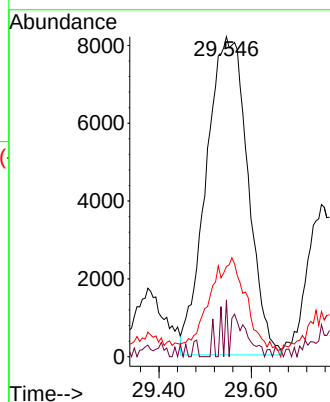
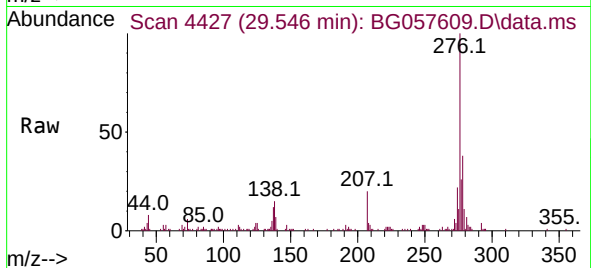
SB27

Tgt Ion:278 Resp: 5118
 Ion Ratio Lower Upper
 278 100
 139 17.8 7.8 11.8
 279 28.2 19.1 28.7

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/31/2023
 Supervised By :Yogesh Patel 06/01/2023



#92

Benzo(g,h,i)perylene

Concen: 14.695 ng

RT: 30.786 min Scan# 4638

Delta R.T. -0.016 min

Lab File: BG057609.D

Acq: 30 May 2023 16:49

Tgt Ion:276 Resp: 137720
 Ion Ratio Lower Upper
 276 100
 277 24.2 18.9 28.3
 138 13.5 10.2 15.4

