

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG022123\
 Data File : BG056689.D
 Acq On : 21 Feb 2023 18:13
 Operator : CG/JU
 Sample : 01587-01 2X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 OK-02-02162023

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/22/2023
 Supervised By : Jagrut Upadhyay 02/22/2023

Quant Time: Feb 21 18:52:29 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG021523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 21 18:07:35 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.437	152	26643	20.000	ng	0.00
21) Naphthalene-d8	11.275	136	99707	20.000	ng	0.00
39) Acenaphthene-d10	15.041	164	62566	20.000	ng	0.00
64) Phenanthrene-d10	17.779	188	128773	20.000	ng	# 0.00
76) Chrysene-d12	22.098	240	115294	20.000	ng	0.00
86) Perylene-d12	25.653	264	99132	20.000	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.940	112	63870	39.005	ng	0.00
7) Phenol-d6	7.556	99	94110	38.908	ng	0.00
23) Nitrobenzene-d5	9.607	82	60770	31.206	ng	0.00
42) 2,4,6-Tribromophenol	16.516	330	33186	38.741	ng	0.00
45) 2-Fluorobiphenyl	13.667	172	127839	27.361	ng	0.00
79) Terphenyl-d14	20.341	244	178771	25.369	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	17.821	178	153742	21.945	ng	99
72) Anthracene	17.909	178	38375	5.353	ng	96
73) Carbazole	18.167	167	19077	3.087	ng	# 96
75) Fluoranthene	19.806	202	453874	49.099	ng	98
78) Pyrene	20.165	202	375126	43.082	ng	98
81) Benzo(a)anthracene	22.074	228	223500	26.067	ng	97
83) Chrysene	22.145	228	218816m	27.299	ng	
87) Indeno(1,2,3-cd)pyrene	29.760	276	51931	6.689	ng	# 84
88) Benzo(b)fluoranthene	24.519	252	233739	36.091	ng	97
89) Benzo(k)fluoranthene	24.583	252	120744m	18.959	ng	
90) Benzo(a)pyrene	25.482	252	146171	23.480	ng	95
91) Dibenzo(a,h)anthracene	29.807	278	15618m	2.429	ng	
92) Benzo(g,h,i)perylene	31.040	276	42156m	6.710	ng	

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

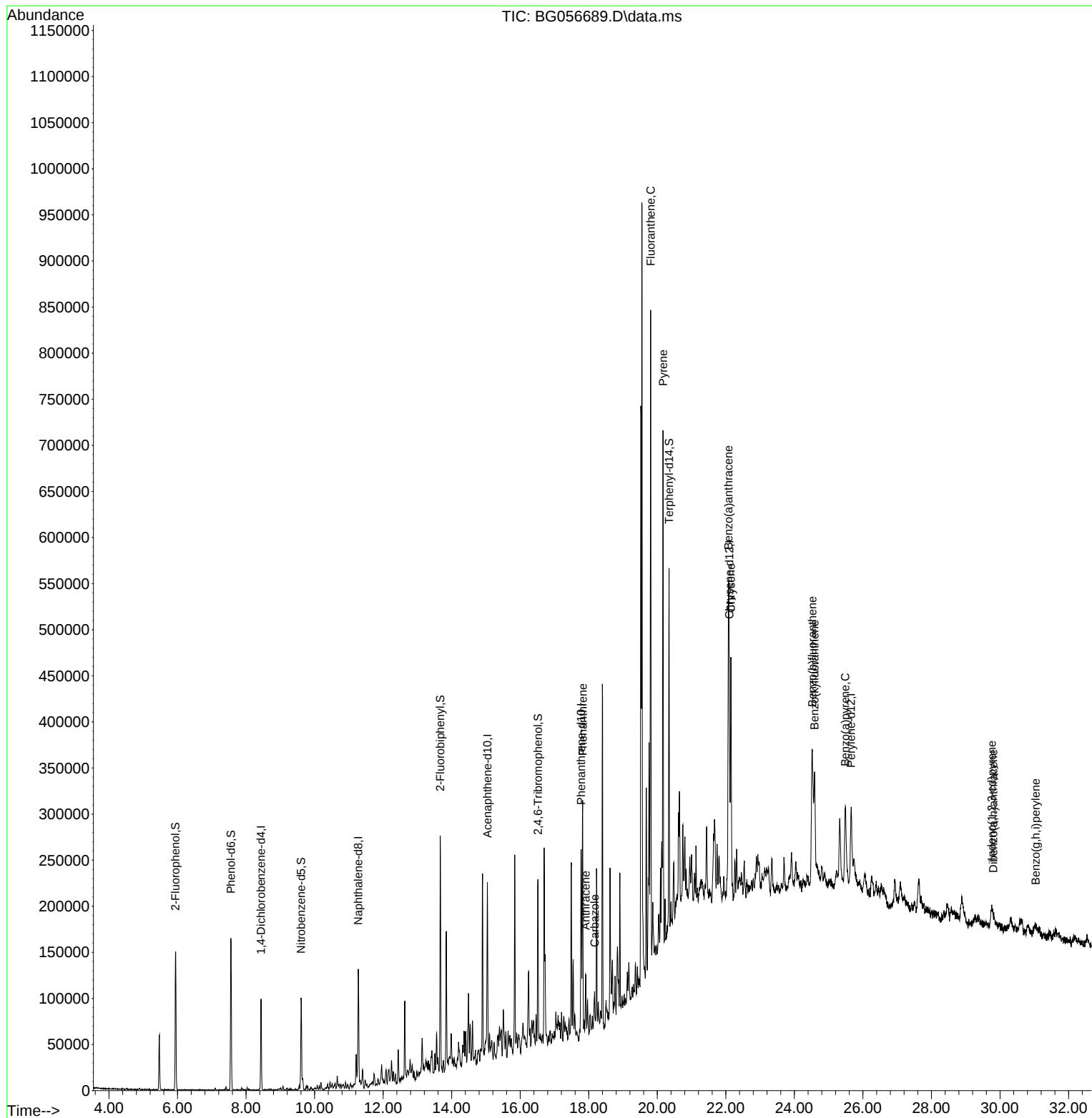
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG022123\
Data File : BG056689.D
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ALS Vial : 10 Sample Multiplier: 1

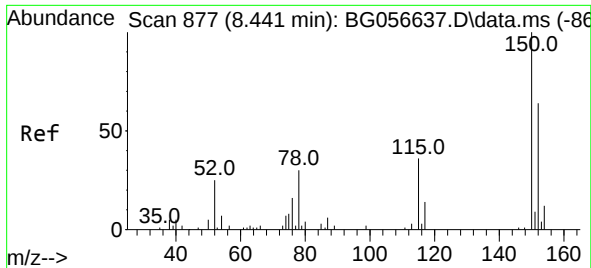
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OK-02-02162023

Quant Time: Feb 21 18:52:29 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG021523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 21 18:07:35 2023
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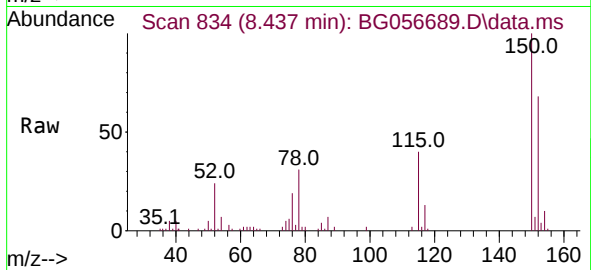
Reviewed By : Christian Giraldo 02/22/2023
Supervised By : Jagrut Upadhyay 02/22/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.437 min Scan# 84
Delta R.T. 0.008 min
Lab File: BG056689.D
Acq: 21 Feb 2023 18:13

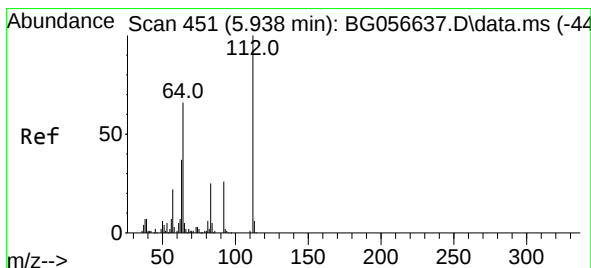
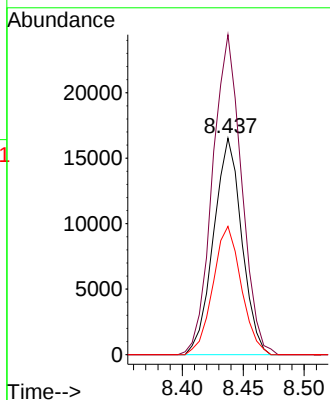
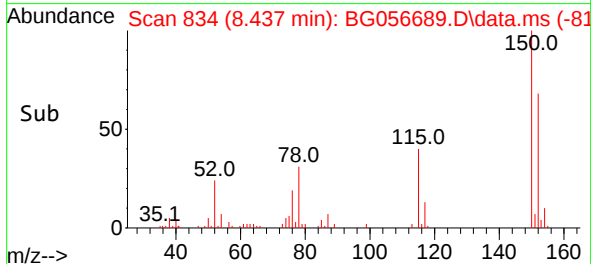
Instrument :
BNA_G
ClientSampleId :
OK-02-02162023



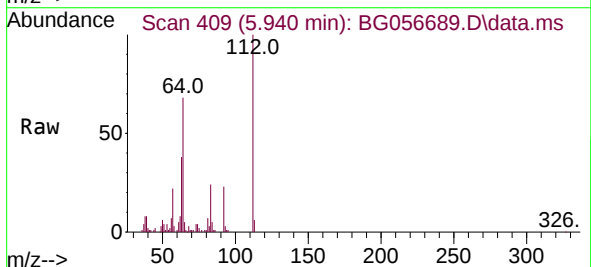
Tgt Ion:152 Resp: 26643
Ion Ratio Lower Upper
152 100
150 147.9 124.8 187.2
115 59.2 44.7 67.1

Manual Integrations
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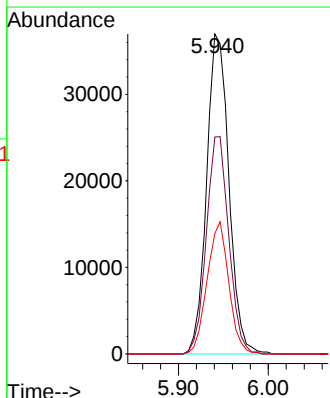
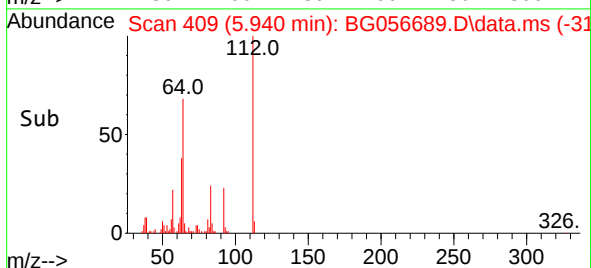
Reviewed By :Christian Giraldo 02/22/2023
Supervised By :Jagrut Upadhyay 02/22/2023

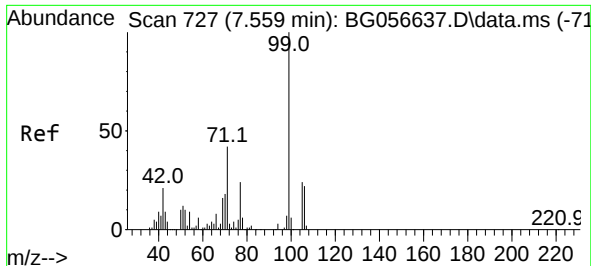


#5
2-Fluorophenol
Concen: 39.005 ng
RT: 5.940 min Scan# 409
Delta R.T. 0.008 min
Lab File: BG056689.D
Acq: 21 Feb 2023 18:13



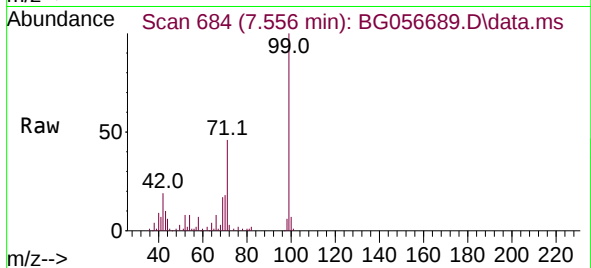
Tgt Ion:112 Resp: 63870
Ion Ratio Lower Upper
112 100
64 67.8 52.6 78.8
63 37.6 29.8 44.6





#7
Phenol-d6
Concen: 38.908 ng
RT: 7.556 min Scan# 684
Delta R.T. 0.003 min
Lab File: BG056689.D
Acq: 21 Feb 2023 18:13

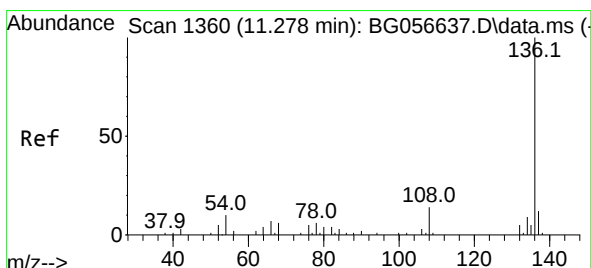
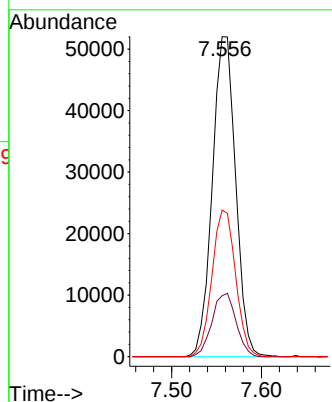
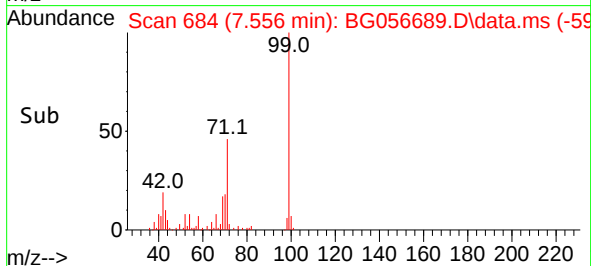
Instrument :
BNA_G
ClientSampleId :
OK-02-02162023



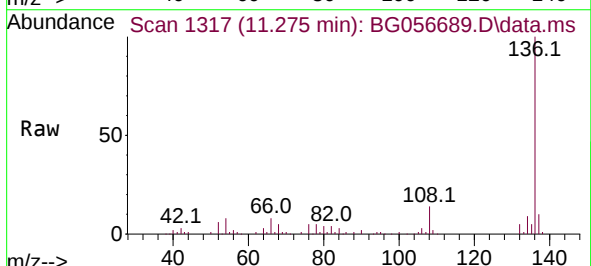
Tgt Ion: 99 Resp: 94110
Ion Ratio Lower Upper
99 100
42 19.0 16.8 25.2
71 45.8 33.9 50.9

Manual Integrations
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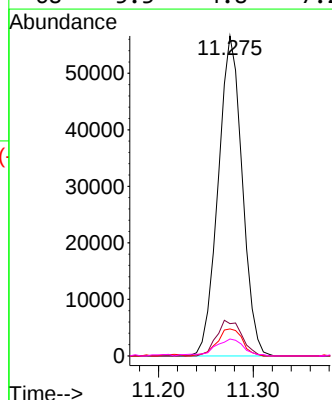
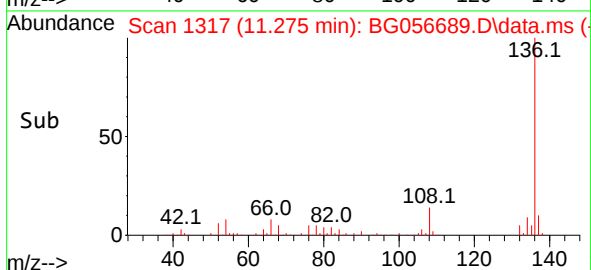
Reviewed By :Christian Giraldo 02/22/2023
Supervised By :Jagrut Upadhyay 02/22/2023

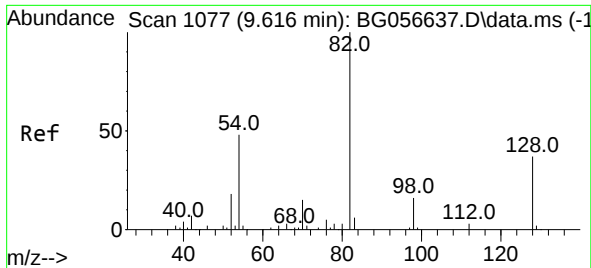


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.275 min Scan# 1317
Delta R.T. 0.003 min
Lab File: BG056689.D
Acq: 21 Feb 2023 18:13



Tgt Ion:136 Resp: 99707
Ion Ratio Lower Upper
136 100
137 10.1 9.7 14.5
54 8.4 7.7 11.5
68 5.3 4.8 7.2





#23
Nitrobenzene-d5
Concen: 31.206 ng
RT: 9.607 min Scan# 1077
Delta R.T. 0.003 min
Lab File: BG056689.D
Acq: 21 Feb 2023 18:13

Instrument :

BNA_G

ClientSampleId :

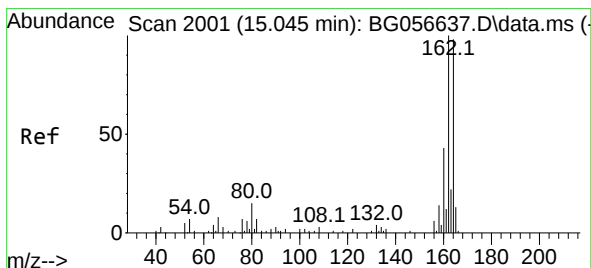
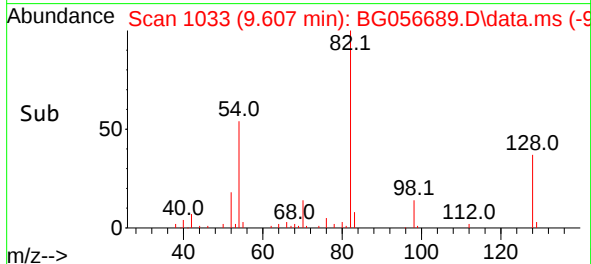
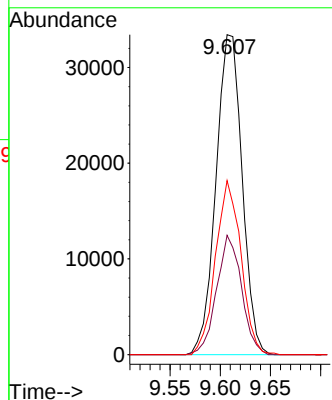
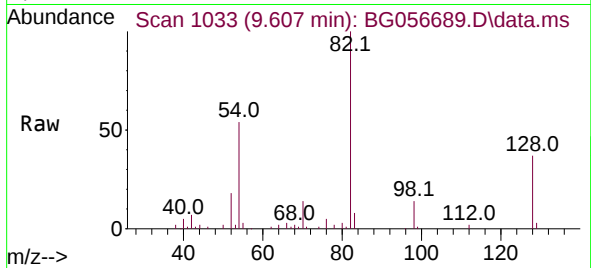
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Tgt Ion: 82 Resp: 60776
Ion Ratio Lower Upper
82 100
128 37.3 29.4 44.2
54 54.4 37.8 56.6

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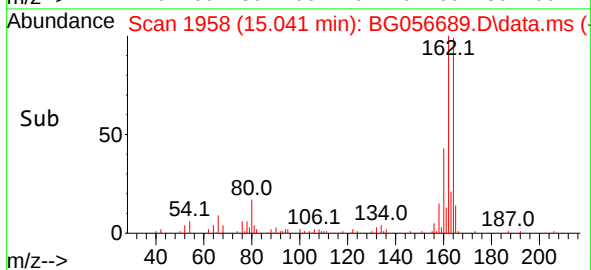
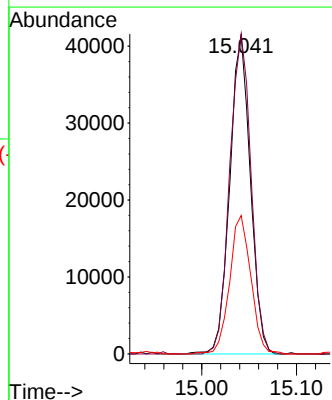
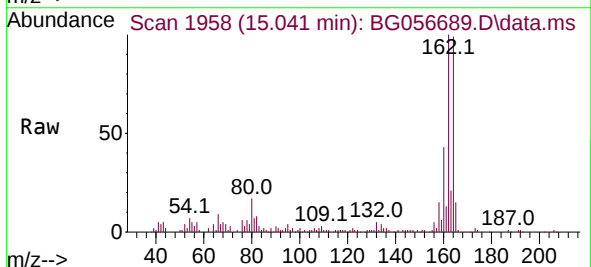
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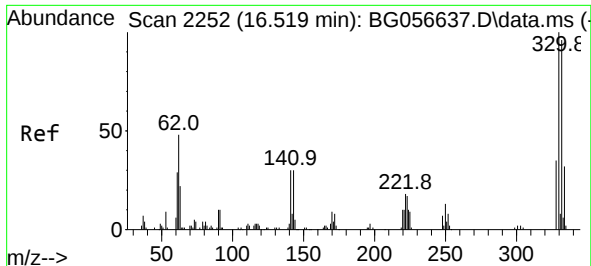
Reviewed By :Christian Giraldo 02/22/2023
Supervised By :Jagrut Upadhyay 02/22/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 15.041 min Scan# 1958
Delta R.T. 0.008 min
Lab File: BG056689.D
Acq: 21 Feb 2023 18:13

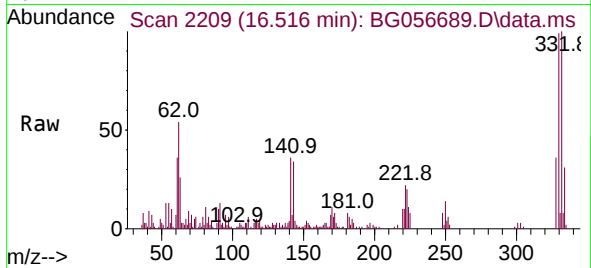
Tgt Ion:164 Resp: 62566
Ion Ratio Lower Upper
164 100
162 100.6 81.3 121.9
160 43.5 35.2 52.8





#42
2,4,6-Tribromophenol
Concen: 38.741 ng
RT: 16.516 min Scan# 21
Delta R.T. 0.003 min
Lab File: BG056689.D
Acq: 21 Feb 2023 18:13

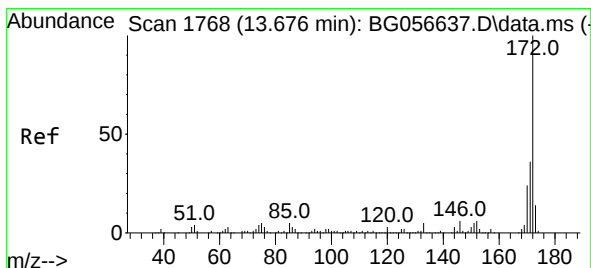
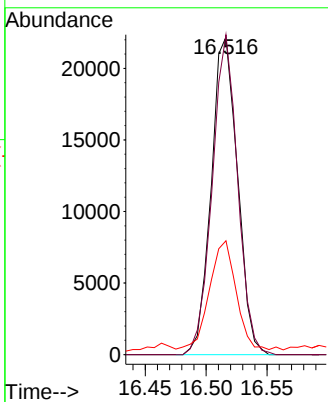
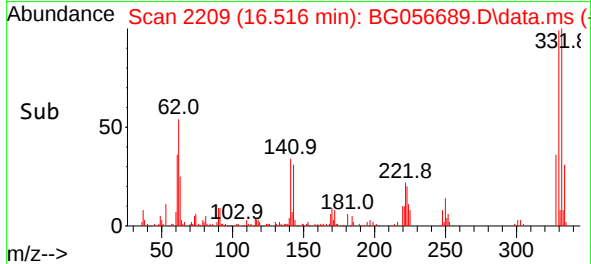
Instrument :
BNA_G
ClientSampleId :
OK-02-02162023



Tgt Ion:330 Resp: 33186
Ion Ratio Lower Upper
330 100
332 97.4 75.7 113.5
141 34.6 24.6 37.0

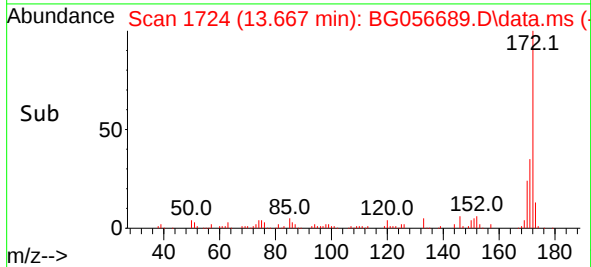
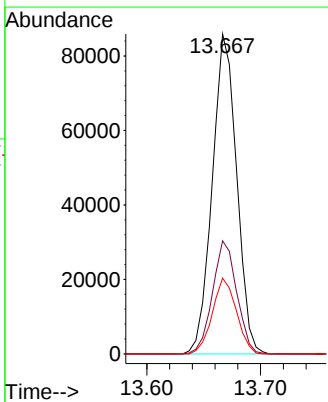
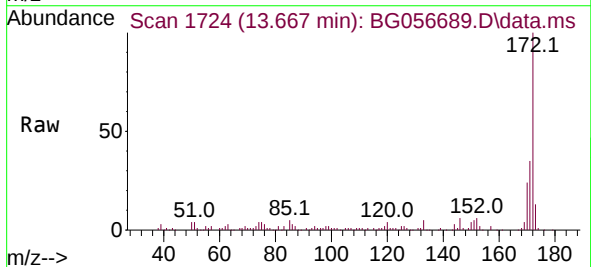
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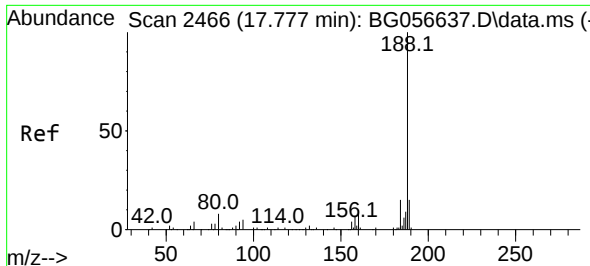
Reviewed By :Christian Giraldo 02/22/2023
Supervised By :Jagrut Upadhyay 02/22/2023



#45
2-Fluorobiphenyl
Concen: 27.361 ng
RT: 13.667 min Scan# 1724
Delta R.T. 0.003 min
Lab File: BG056689.D
Acq: 21 Feb 2023 18:13

Tgt Ion:172 Resp: 127839
Ion Ratio Lower Upper
172 100
171 35.3 28.6 43.0
170 23.7 19.4 29.0





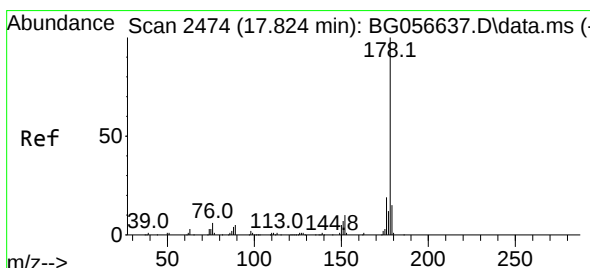
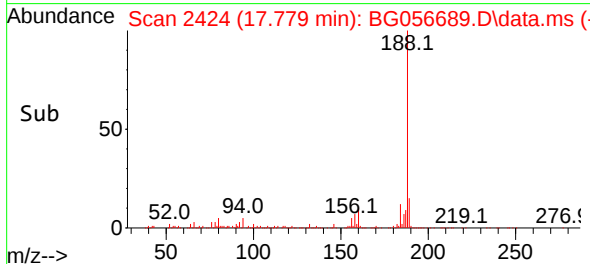
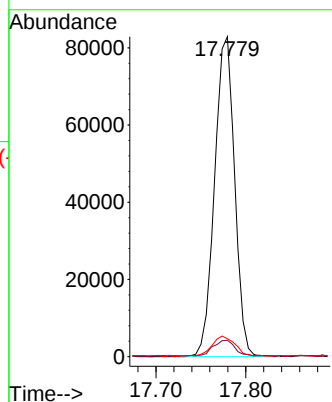
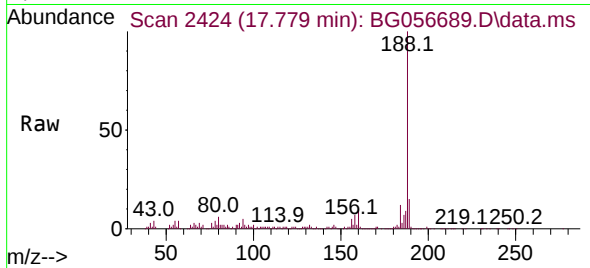
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.779 min Scan# 2466
Delta R.T. 0.008 min
Lab File: BG056689.D
Acq: 21 Feb 2023 18:13

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OK-02-02162023

Tgt Ion:188 Resp: 128773
Ion Ratio Lower Upper
188 100
94 5.1 4.0 6.0
80 5.6 6.3 9.5

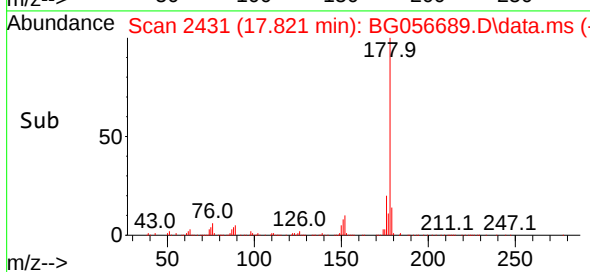
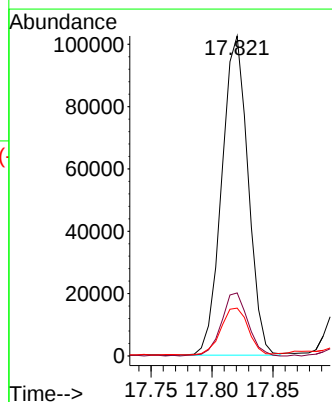
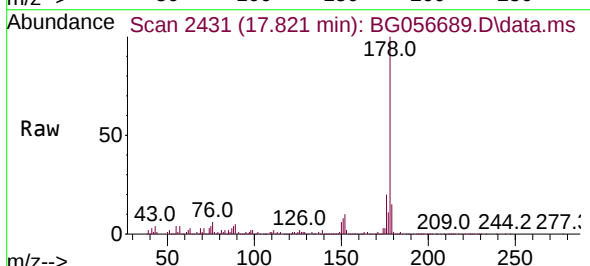
Manual Integrations
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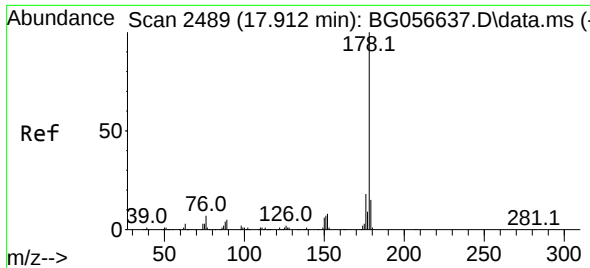
Reviewed By :Christian Giraldo 02/22/2023
Supervised By :Jagrut Upadhyay 02/22/2023



#71
Phenanthrene
Concen: 21.945 ng
RT: 17.821 min Scan# 2431
Delta R.T. 0.008 min
Lab File: BG056689.D
Acq: 21 Feb 2023 18:13

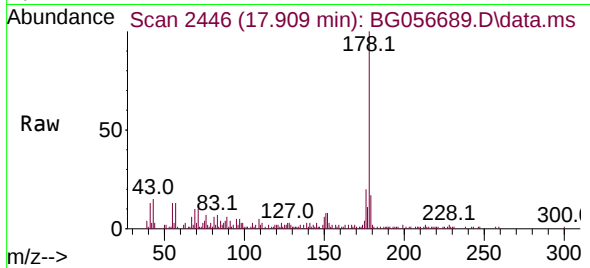
Tgt Ion:178 Resp: 153742
Ion Ratio Lower Upper
178 100
176 19.7 15.4 23.2
179 14.9 12.2 18.4





#72
 Anthracene
 Concen: 5.353 ng
 RT: 17.909 min Scan# 2489
 Delta R.T. 0.003 min
 Lab File: BG056689.D
 Acq: 21 Feb 2023 18:13

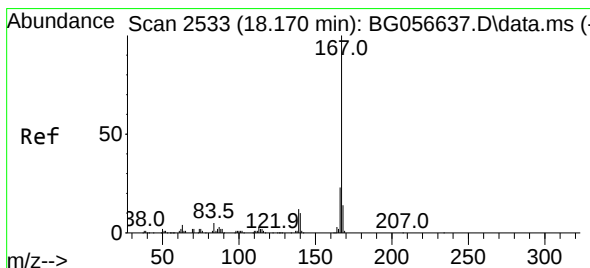
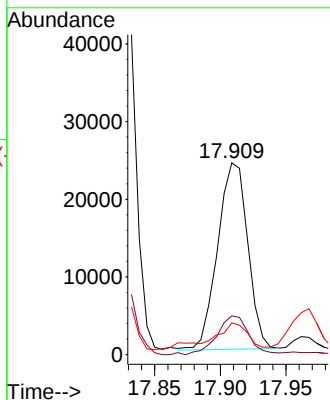
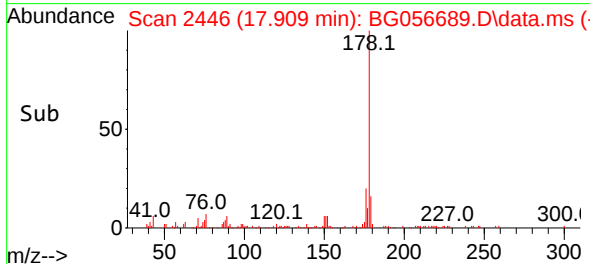
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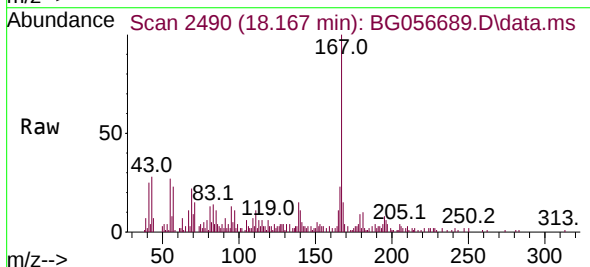
Tgt Ion:178 Resp: 38375
 Ion Ratio Lower Upper
 178 100
 176 20.2 14.3 21.5
 179 16.5 12.2 18.4

Manual Integrations
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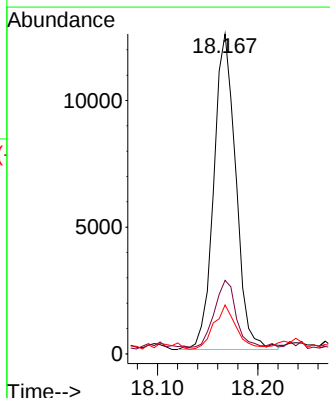
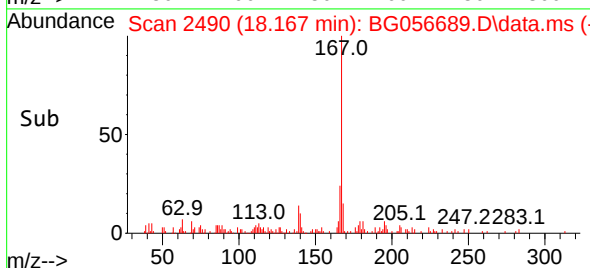
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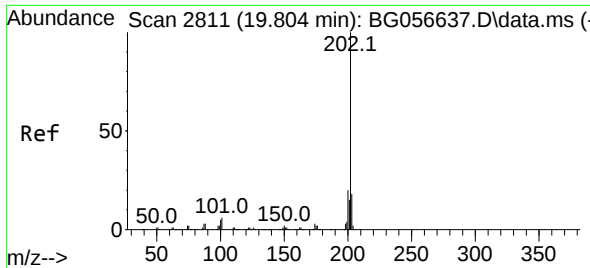


#73
 Carbazole
 Concen: 3.087 ng
 RT: 18.167 min Scan# 2490
 Delta R.T. 0.003 min
 Lab File: BG056689.D
 Acq: 21 Feb 2023 18:13



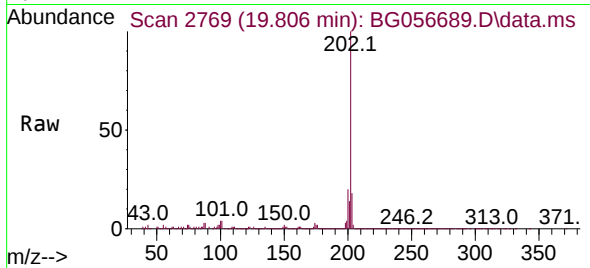
Tgt Ion:167 Resp: 19077
 Ion Ratio Lower Upper
 167 100
 166 23.0 18.1 27.1
 139 15.3 9.4 14.0#





#75
Fluoranthene
Concen: 49.099 ng
RT: 19.806 min Scan# 21
Delta R.T. 0.008 min
Lab File: BG056689.D
Acq: 21 Feb 2023 18:13

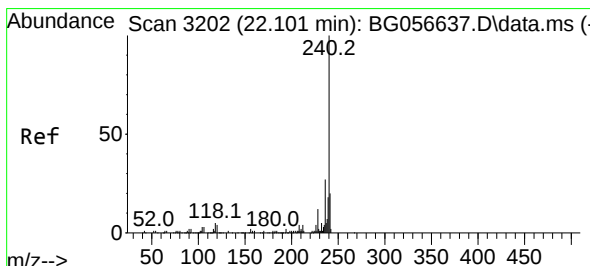
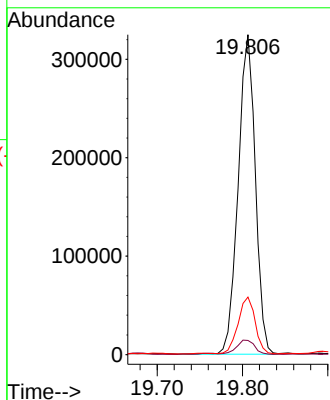
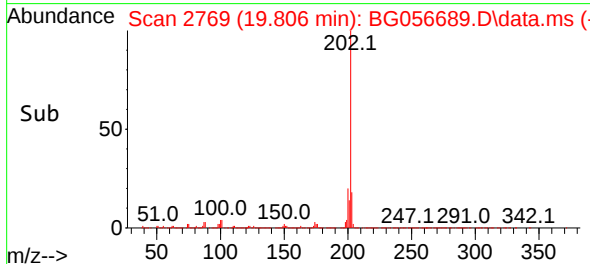
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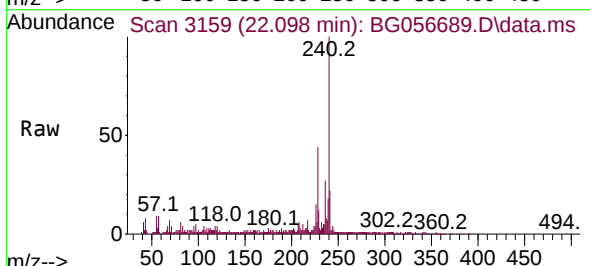
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Ion Ratio Lower Upper
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101 4.4 0.0 25.8
203 18.0 0.0 37.6

Manual Integrations
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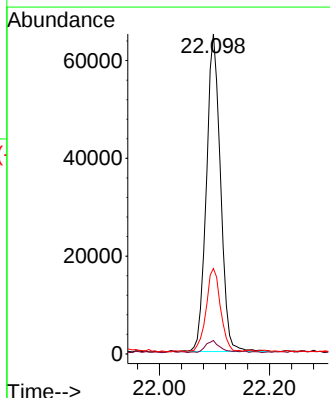
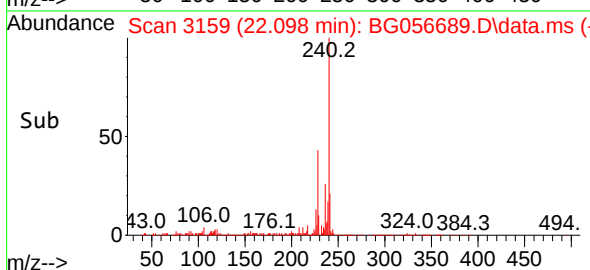
Reviewed By :Christian Giraldo 02/22/2023
Supervised By :Jagrut Upadhyay 02/22/2023

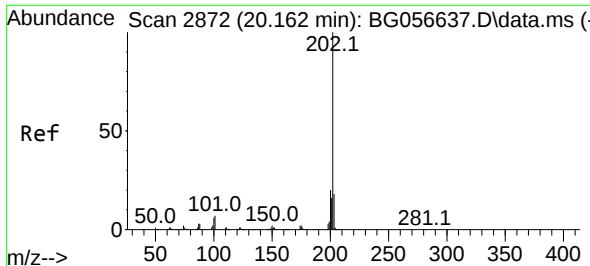


#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.098 min Scan# 3159
Delta R.T. 0.008 min
Lab File: BG056689.D
Acq: 21 Feb 2023 18:13



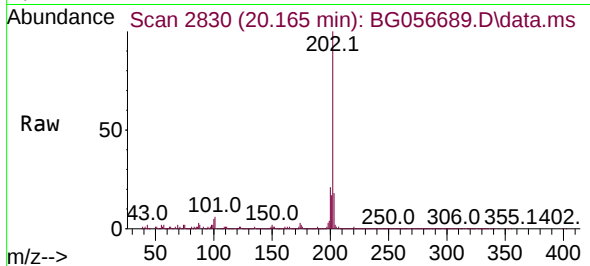
Tgt Ion:240 Resp: 115294
Ion Ratio Lower Upper
240 100
120 4.2 3.5 5.3
236 26.7 21.5 32.3





#78
 Pyrene
 Concen: 43.082 ng
 RT: 20.165 min Scan# 2872
 Delta R.T. 0.008 min
 Lab File: BG056689.D
 Acq: 21 Feb 2023 18:13

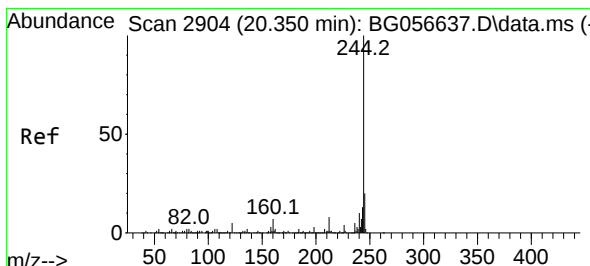
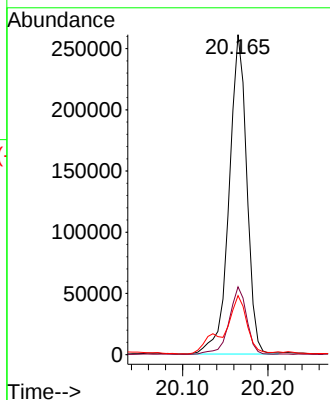
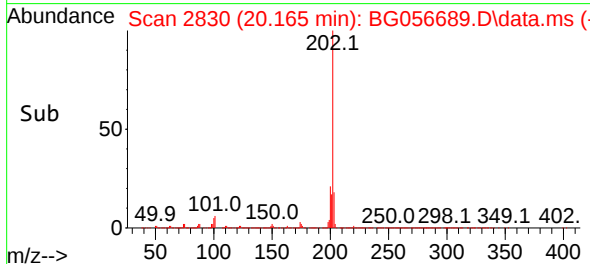
Instrument :
 BNA_G
 ClientSampleId :
 OK-02-02162023



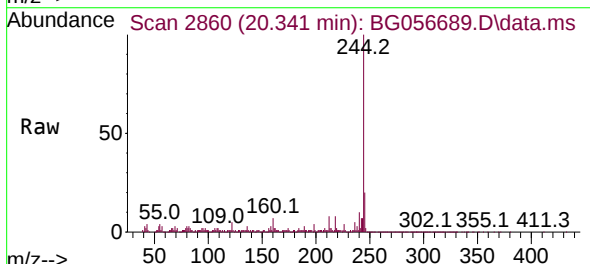
Tgt Ion:202 Resp: 375126
 Ion Ratio Lower Upper
 202 100
 200 21.2 15.8 23.8
 203 18.4 14.2 21.4

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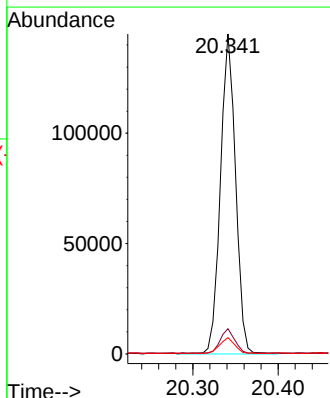
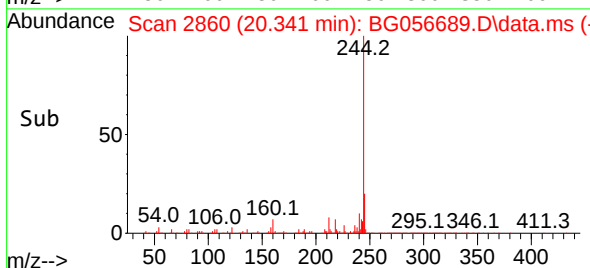
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 Supervised By :Jagrut Upadhyay 02/22/2023

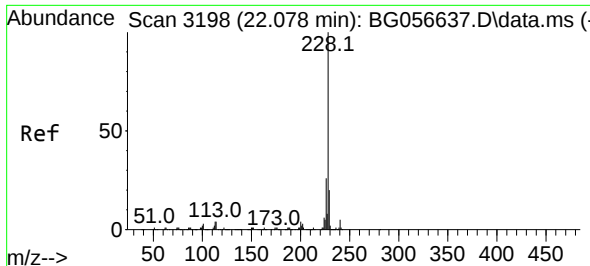


#79
 Terphenyl-d14
 Concen: 25.369 ng
 RT: 20.341 min Scan# 2860
 Delta R.T. 0.003 min
 Lab File: BG056689.D
 Acq: 21 Feb 2023 18:13



Tgt Ion:244 Resp: 178771
 Ion Ratio Lower Upper
 244 100
 212 7.9 6.0 9.0
 122 5.1 3.8 5.8





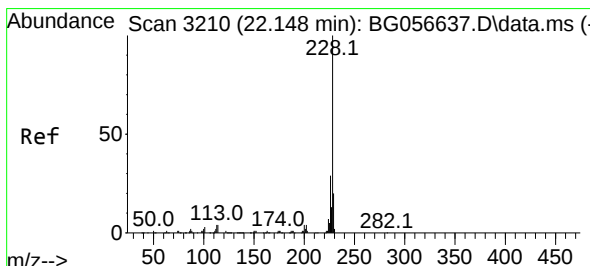
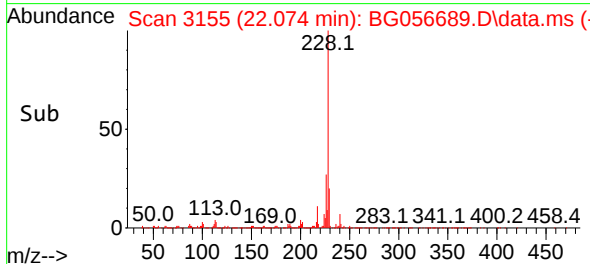
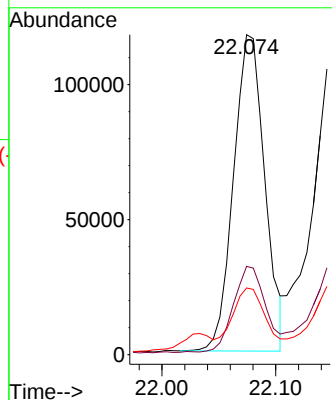
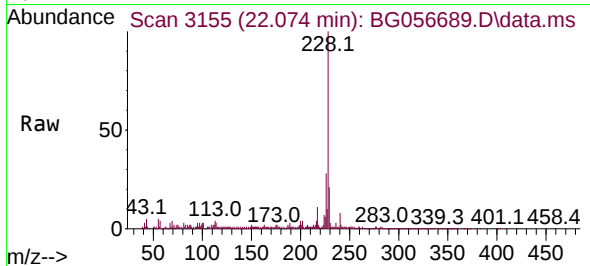
#81
Benzo(a)anthracene
Concen: 26.067 ng
RT: 22.074 min Scan# 3198
Delta R.T. 0.008 min
Lab File: BG056689.D
Acq: 21 Feb 2023 18:13

Instrument :
BNA_G
ClientSampleId :
OK-02-02162023

Tgt Ion:228 Resp: 223500
Ion Ratio Lower Upper
228 100
226 27.6 20.4 30.6
229 20.8 16.0 24.0

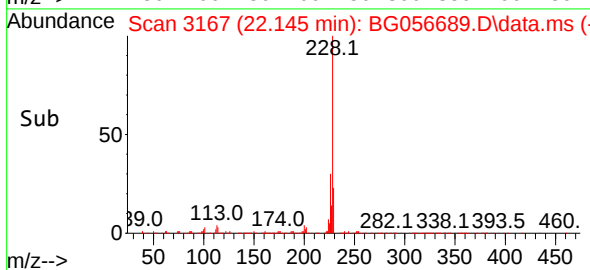
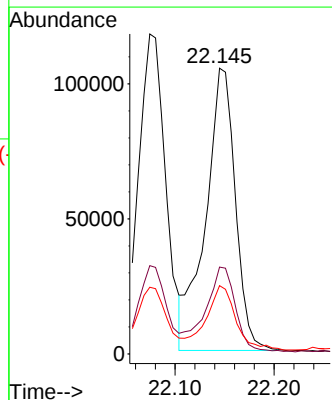
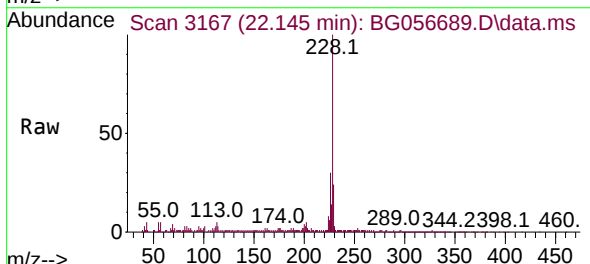
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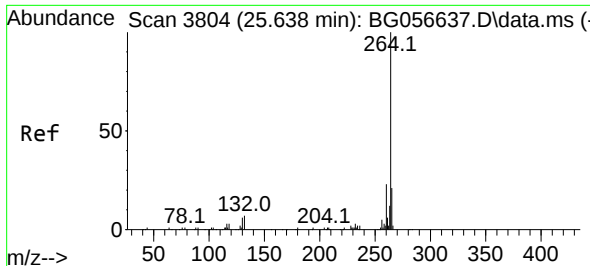
Reviewed By :Christian Giraldo 02/22/2023
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#83
Chrysene
Concen: 27.299 ng m
RT: 22.145 min Scan# 3167
Delta R.T. 0.008 min
Lab File: BG056689.D
Acq: 21 Feb 2023 18:13

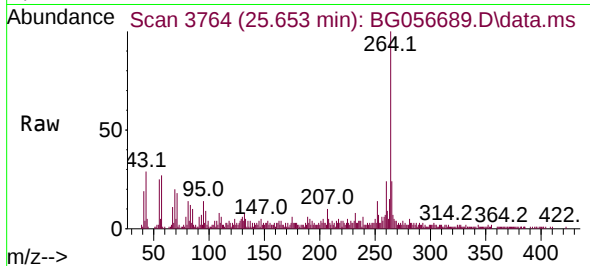
Tgt Ion:228 Resp: 218816
Ion Ratio Lower Upper
228 100
226 30.4 23.0 34.6
229 23.9 15.8 23.8#





#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 25.653 min Scan# 31
 Delta R.T. 0.032 min
 Lab File: BG056689.D
 Acq: 21 Feb 2023 18:13

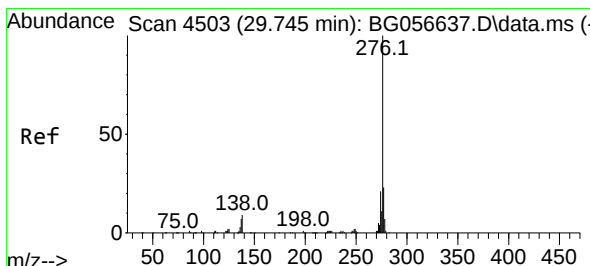
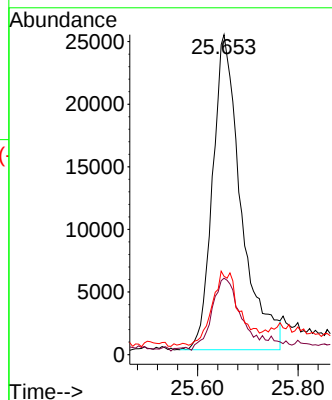
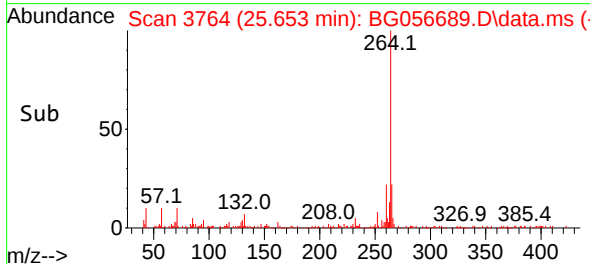
Instrument :
 BNA_G
 ClientSampleId :
 OK-02-02162023



Tgt Ion:264 Resp: 99132
 Ion Ratio Lower Upper
 264 100
 260 23.9 18.6 27.8
 265 24.5 17.0 25.4

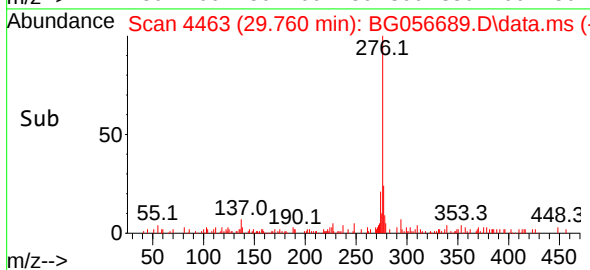
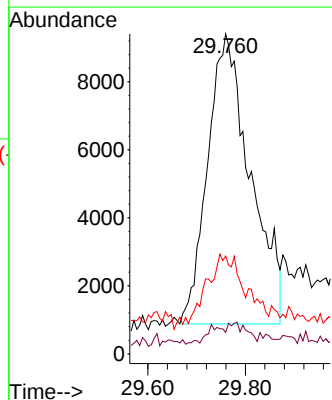
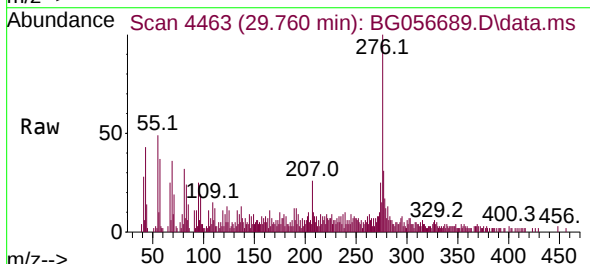
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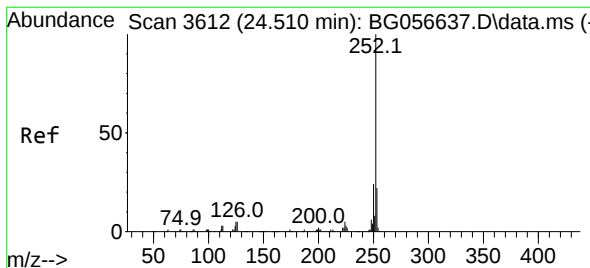
Reviewed By :Christian Giraldo 02/22/2023
 Supervised By :Jagrut Upadhyay 02/22/2023



#87
 Indeno(1,2,3-cd)pyrene
 Concen: 6.689 ng
 RT: 29.760 min Scan# 4463
 Delta R.T. 0.050 min
 Lab File: BG056689.D
 Acq: 21 Feb 2023 18:13

Tgt Ion:276 Resp: 51931
 Ion Ratio Lower Upper
 276 100
 138 0.0 3.8 5.8#
 277 17.1 20.3 30.5#





#88

Benzo(b)fluoranthene

Concen: 36.091 ng

RT: 24.519 min Scan# 3571

Delta R.T. 0.026 min

Lab File: BG056689.D

Acq: 21 Feb 2023 18:13

Instrument :

BNA_G

ClientSampleId :

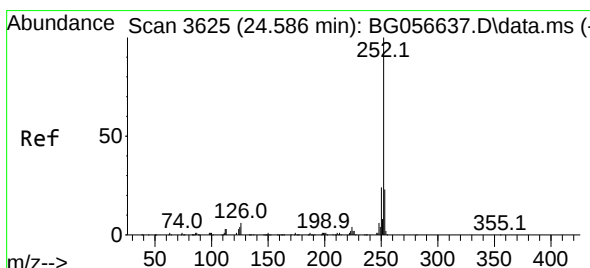
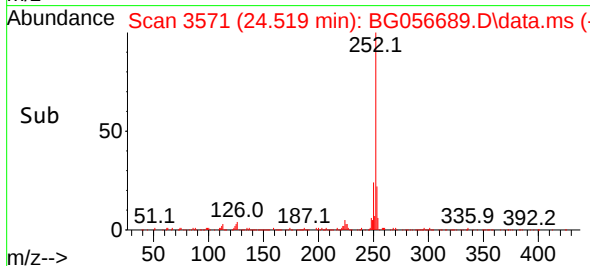
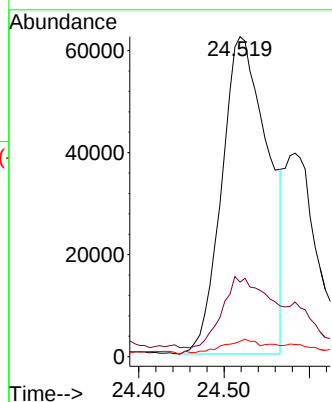
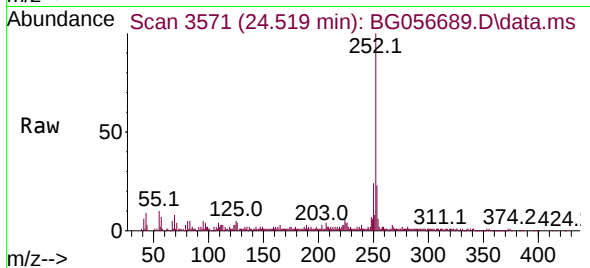
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Tgt Ion:252 Resp: 233739
 Ion Ratio Lower Upper
 252 100
 253 23.3 17.3 25.9
 125 4.8 3.7 5.5

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#89

Benzo(k)fluoranthene

Concen: 18.959 ng m

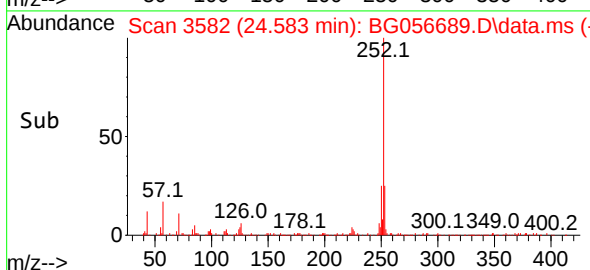
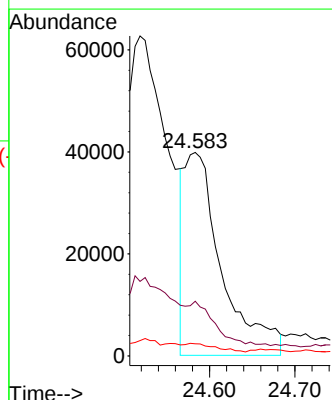
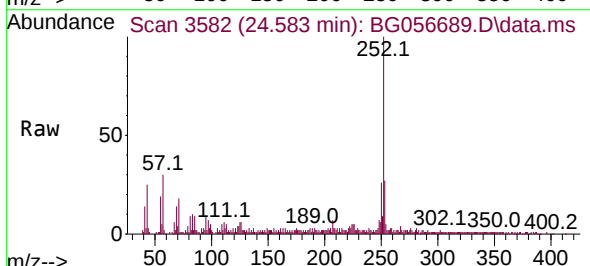
RT: 24.583 min Scan# 3582

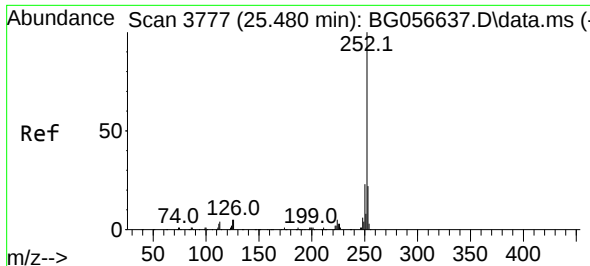
Delta R.T. 0.014 min

Lab File: BG056689.D

Acq: 21 Feb 2023 18:13

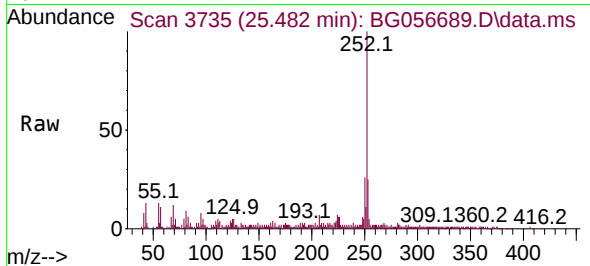
Tgt Ion:252 Resp: 120744
 Ion Ratio Lower Upper
 252 100
 253 26.9 18.5 27.7
 125 5.9 3.4 5.0#





#90
Benzo(a)pyrene
Concen: 23.480 ng
RT: 25.482 min Scan# 31
Delta R.T. 0.020 min
Lab File: BG056689.D
Acq: 21 Feb 2023 18:13

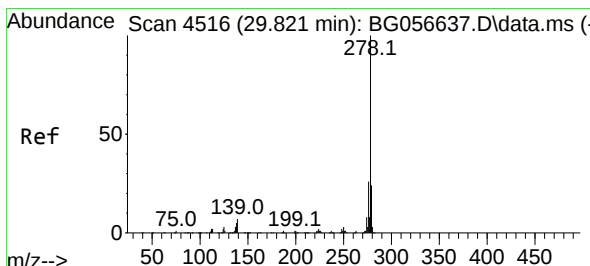
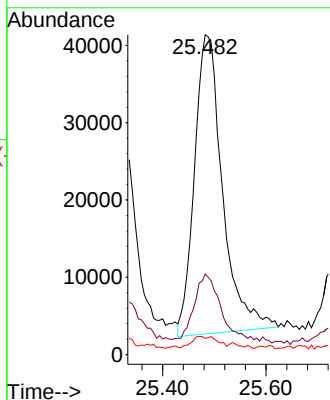
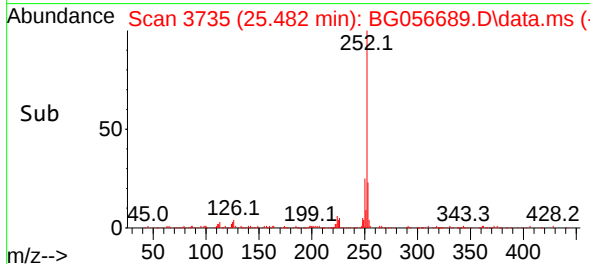
Instrument :
BNA_G
ClientSampleId :
OK-02-02162023



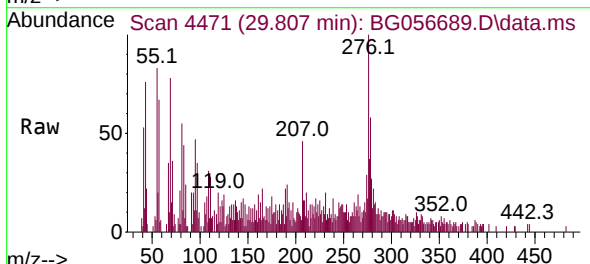
Tgt Ion:252 Resp: 14617
Ion Ratio Lower Upper
252 100
253 25.2 17.9 26.9
125 5.1 4.0 6.0

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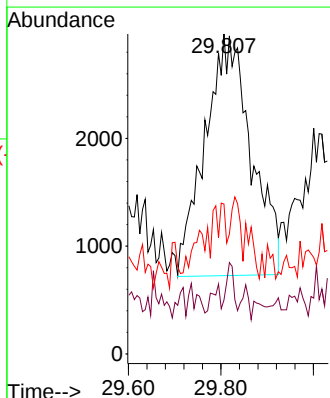
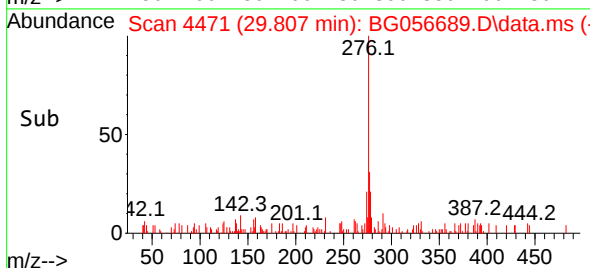
Reviewed By :Christian Giraldo 02/22/2023
Supervised By :Jagrut Upadhyay 02/22/2023

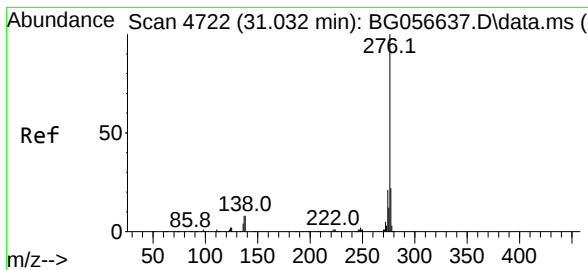


#91
Dibenzo(a,h)anthracene
Concen: 2.429 ng m
RT: 29.807 min Scan# 4471
Delta R.T. 0.020 min
Lab File: BG056689.D
Acq: 21 Feb 2023 18:13



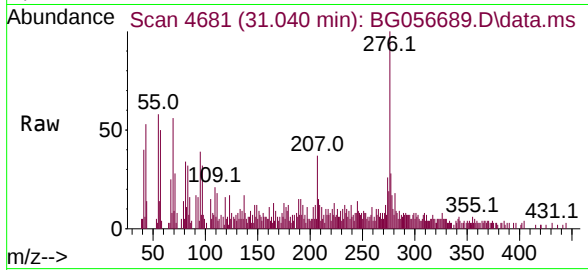
Tgt Ion:278 Resp: 15618
Ion Ratio Lower Upper
278 100
139 16.8 5.8 8.8#
279 46.8 19.6 29.4#





#92
 Benzo(g,h,i)perylene
 Concen: 6.710 ng m
 RT: 31.040 min Scan# 40
 Delta R.T. 0.044 min
 Lab File: BG056689.D
 Acq: 21 Feb 2023 18:13

Instrument :
 BNA_G
 ClientSampleId :
 OK-02-02162023



Tgt Ion:276 Resp: 42156
 Ion Ratio Lower Upper
 276 100
 277 27.8 17.5 26.3
 138 7.8 6.4 9.6

Manual Integrations
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