

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG102025\
 Data File : BG064556.D
 Acq On : 20 Oct 2025 19:27
 Operator : RC/JU
 Sample : Q3383-01 5X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 OR-03-101725

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 10/21/2025
 Supervised By :Jagrut Upadhyay 10/21/2025

Quant Time: Oct 21 00:41:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 02 16:40:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.820	152	16036	20.000	ng	0.00
21) Naphthalene-d8	10.605	136	67692	20.000	ng	# 0.00
39) Acenaphthene-d10	14.448	164	49446	20.000	ng	0.00
64) Phenanthrene-d10	17.192	188	109227	20.000	ng	0.00
76) Chrysene-d12	21.416	240	122910	20.000	ng	0.00
86) Perylene-d12	24.407	264	141067	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.417	112	13878	16.016	ng	0.01
7) Phenol-d6	7.009	99	15186	13.042	ng	0.02
23) Nitrobenzene-d5	8.978	82	11107	8.823	ng	0.01
42) 2,4,6-Tribromophenol	15.940	330	11652	13.000	ng	0.00
45) 2-Fluorobiphenyl	13.067	172	28915	8.620	ng	0.00
79) Terphenyl-d14	19.806	244	56769	8.741	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	17.233	178	56732	9.932	ng	96
72) Anthracene	17.321	178	18959	3.308	ng	98
75) Fluoranthene	19.242	202	137245	20.112	ng	96
78) Pyrene	19.606	202	121498	15.232	ng	96
81) Benzo(a)anthracene	21.398	228	70579	8.993	ng	96
83) Chrysene	21.457	228	61734m	8.295	ng	
87) Indeno(1,2,3-cd)pyrene	27.767	276	40841	4.159	ng	# 90
88) Benzo(b)fluoranthene	23.461	252	85655	10.673	ng	99
89) Benzo(k)fluoranthene	23.514	252	30995m	3.835	ng	
90) Benzo(a)pyrene	24.266	252	65317	8.831	ng	96
92) Benzo(g,h,i)perylene	28.796	276	39409m	5.164	ng	

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

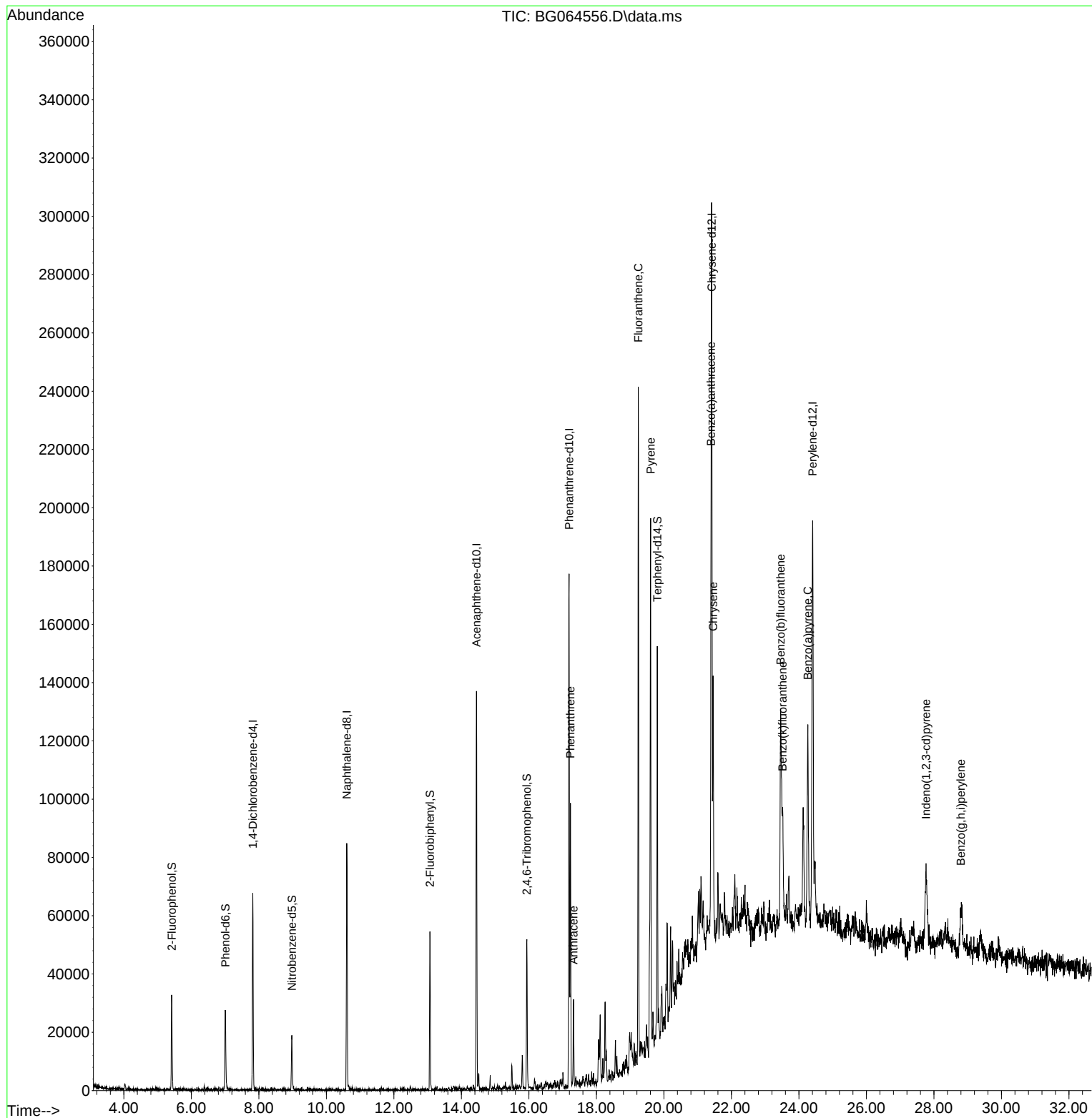
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG102025\
Data File : BG064556.D
Acq On : 20 Oct 2025 19:27
Operator : RC/JU
Sample : Q3383-01 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

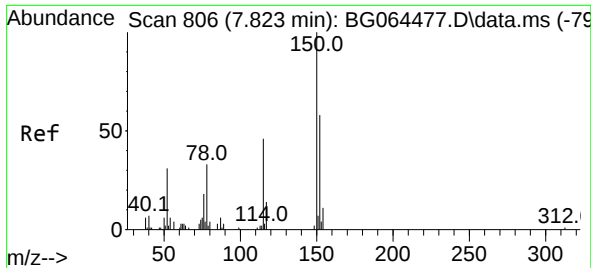
Instrument :
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ClientSampleId :
OR-03-101725

Quant Time: Oct 21 00:41:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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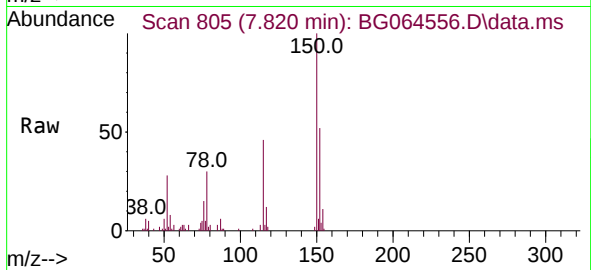
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.820 min Scan# 806
Delta R.T. 0.000 min
Lab File: BG064556.D
Acq: 20 Oct 2025 19:27

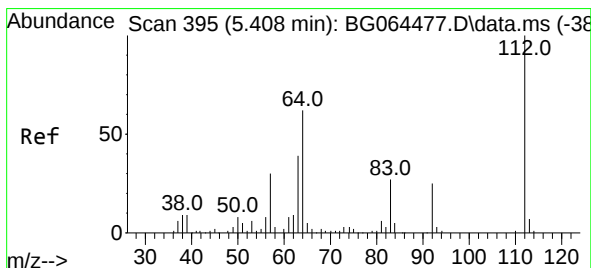
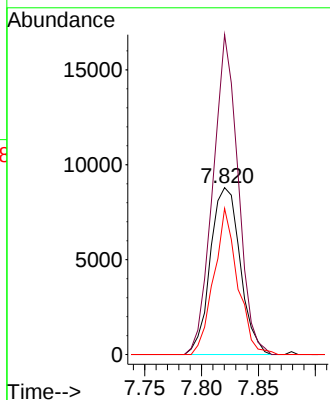
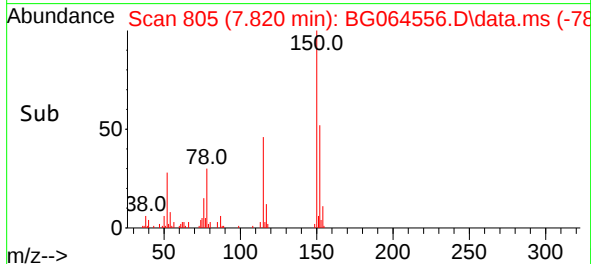
Instrument :
BNA_G
ClientSampleId :
OR-03-101725



Tgt Ion:152 Resp: 16036
Ion Ratio Lower Upper
152 100
150 191.7 138.6 207.8
115 87.6 63.4 95.2

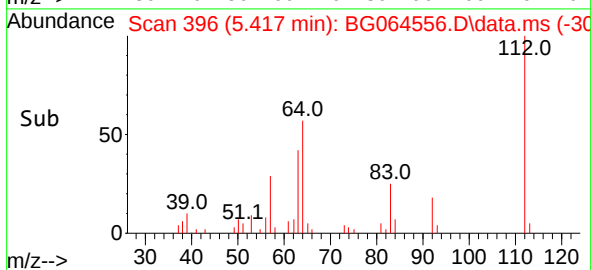
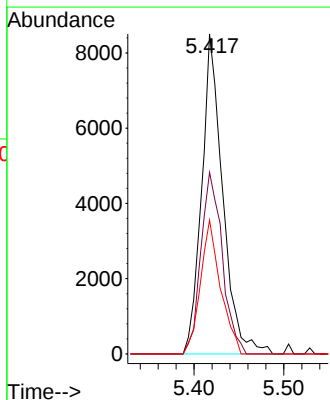
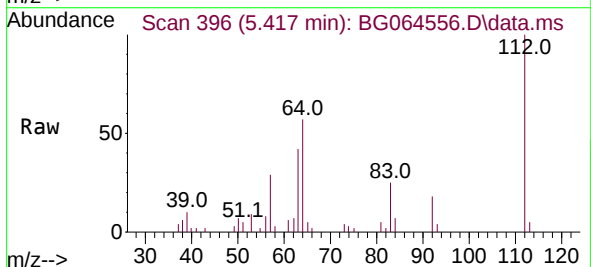
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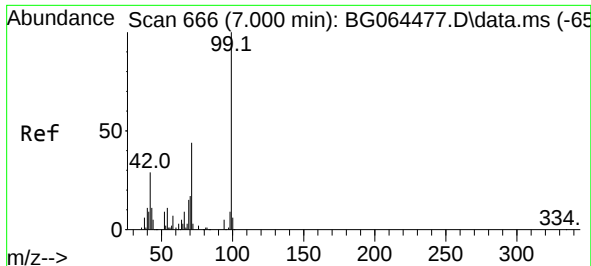
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025



#5
2-Fluorophenol
Concen: 16.016 ng
RT: 5.417 min Scan# 396
Delta R.T. 0.012 min
Lab File: BG064556.D
Acq: 20 Oct 2025 19:27

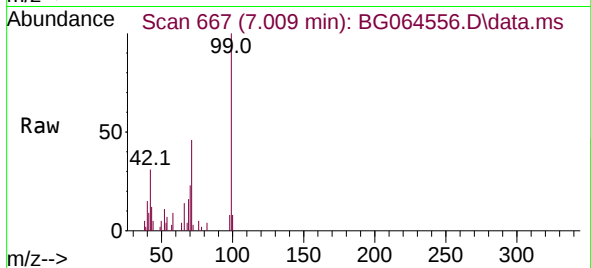
Tgt Ion:112 Resp: 13878
Ion Ratio Lower Upper
112 100
64 56.7 49.8 74.8
63 41.8 31.3 46.9





#7
Phenol-d6
Concen: 13.042 ng
RT: 7.009 min Scan# 60
Delta R.T. 0.023 min
Lab File: BG064556.D
Acq: 20 Oct 2025 19:27

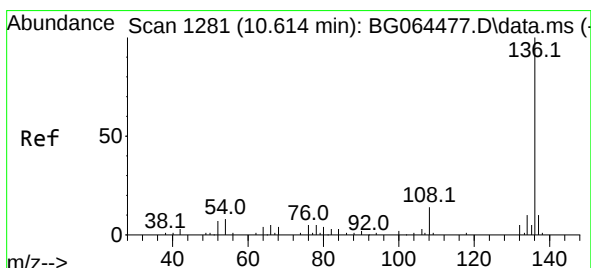
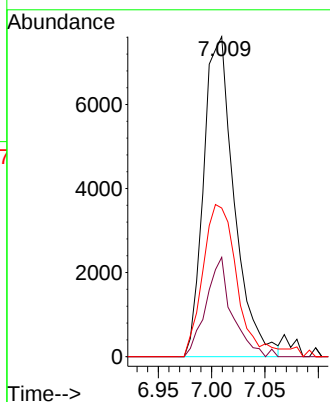
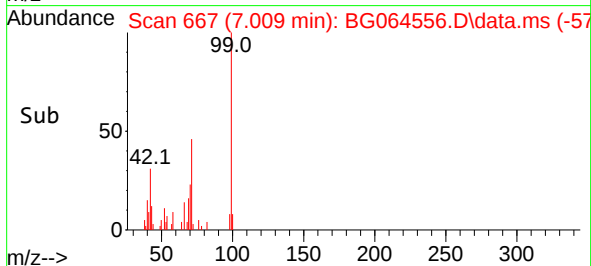
Instrument :
BNA_G
ClientSampleId :
OR-03-101725



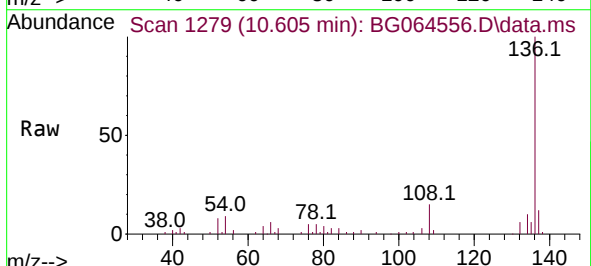
Tgt Ion: 99 Resp: 15186
Ion Ratio Lower Upper
99 100
42 31.0 22.9 34.3
71 46.4 35.4 53.2

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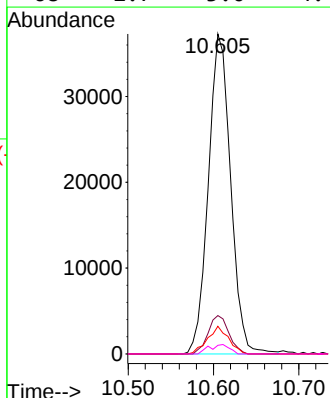
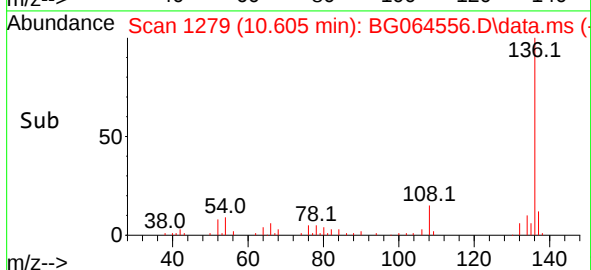
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025

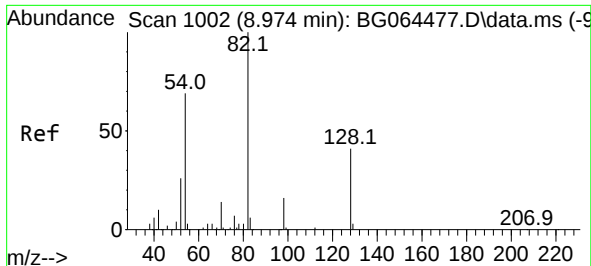


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.605 min Scan# 1279
Delta R.T. -0.000 min
Lab File: BG064556.D
Acq: 20 Oct 2025 19:27



Tgt Ion:136 Resp: 67692
Ion Ratio Lower Upper
136 100
137 12.0 8.3 12.5
54 8.6 6.2 9.4
68 2.7 3.0 4.4#





#23

Nitrobenzene-d5

Concen: 8.823 ng

RT: 8.978 min Scan# 1002

Delta R.T. 0.012 min

Lab File: BG064556.D

Acq: 20 Oct 2025 19:27

Instrument :

BNA_G

ClientSampleId :

OR-03-101725

Tgt Ion: 82 Resp: 1110

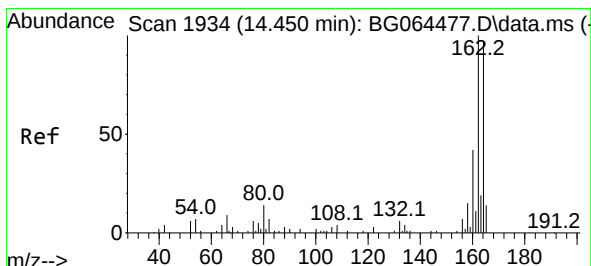
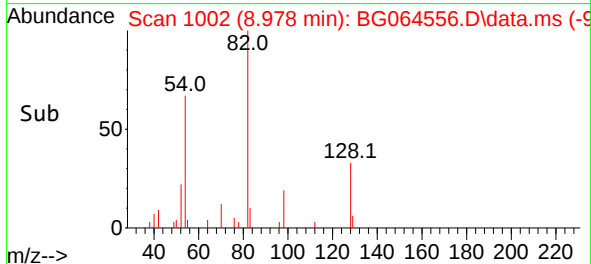
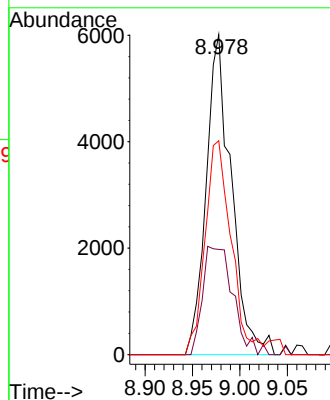
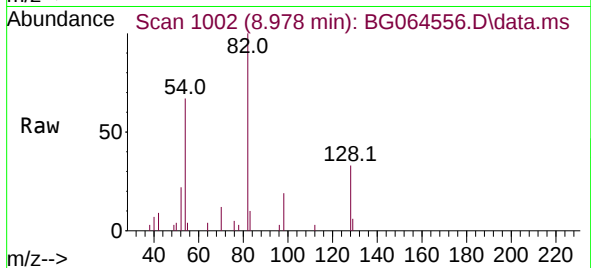
Ion	Ratio	Lower	Upper
82	100		
128	32.9	33.1	49.7
54	66.8	55.4	83.2

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.448 min Scan# 1933

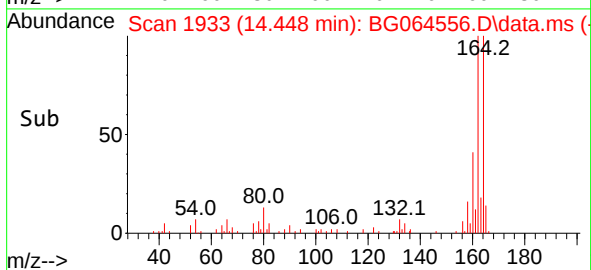
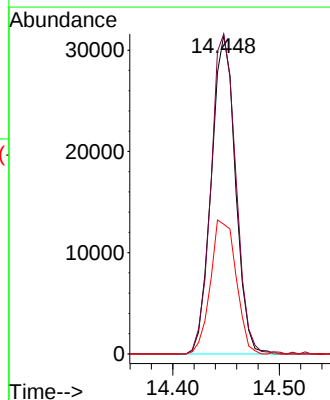
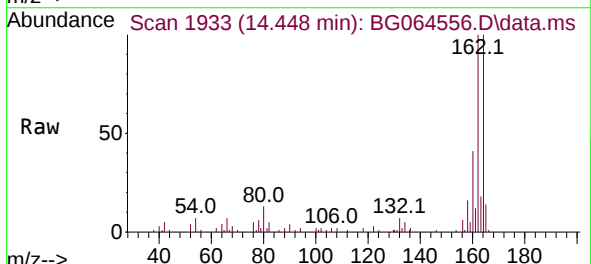
Delta R.T. -0.000 min

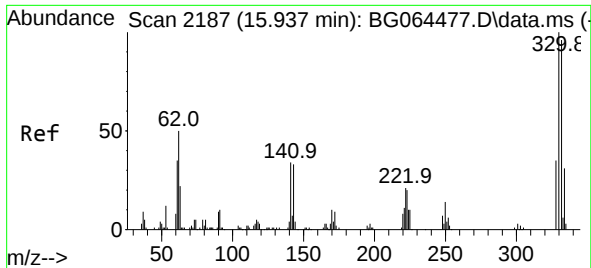
Lab File: BG064556.D

Acq: 20 Oct 2025 19:27

Tgt Ion:164 Resp: 49446

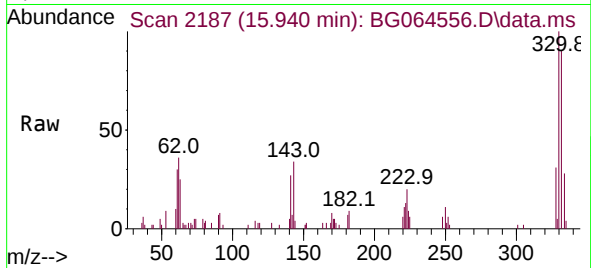
Ion	Ratio	Lower	Upper
164	100		
162	100.5	82.2	123.2
160	40.7	34.3	51.5





#42
2,4,6-Tribromophenol
Concen: 13.000 ng
RT: 15.940 min Scan# 2187
Delta R.T. 0.006 min
Lab File: BG064556.D
Acq: 20 Oct 2025 19:27

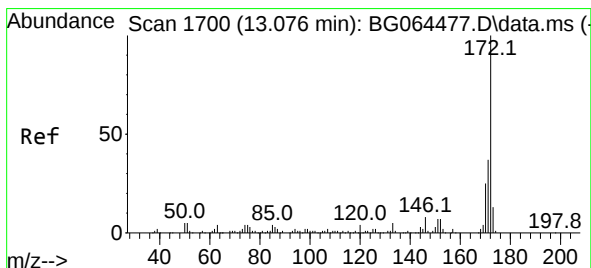
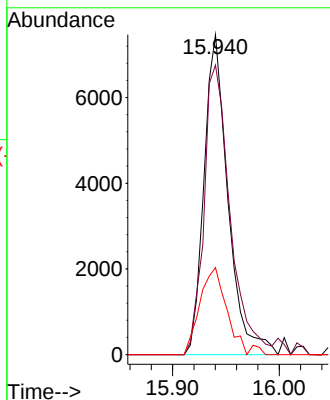
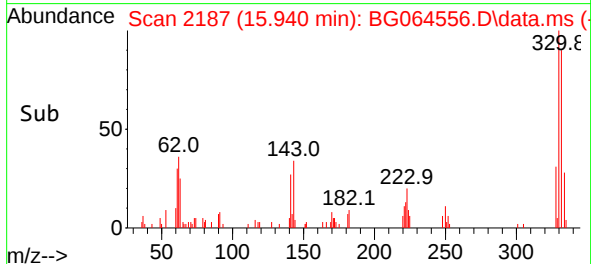
Instrument :
BNA_G
ClientSampleId :
OR-03-101725



Tgt Ion: 330 Resp: 11652
Ion Ratio Lower Upper
330 100
332 98.9 77.4 116.0
141 31.2 25.8 38.6

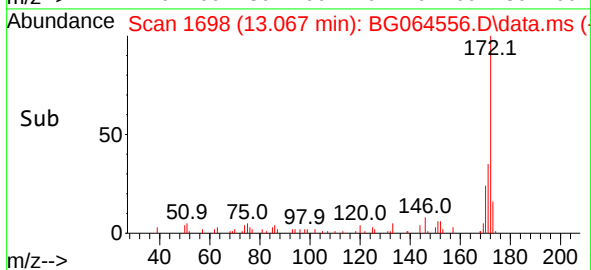
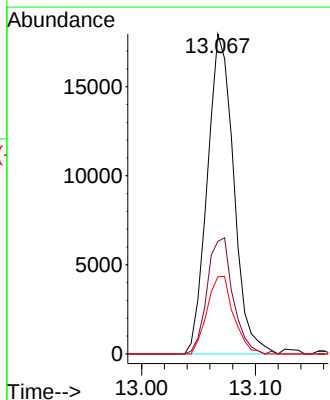
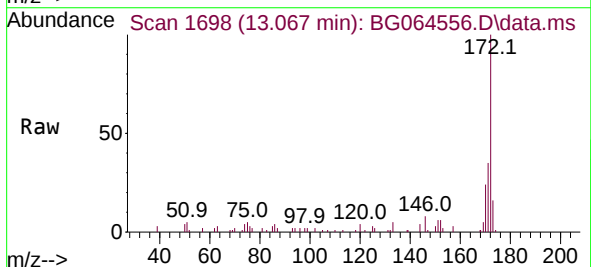
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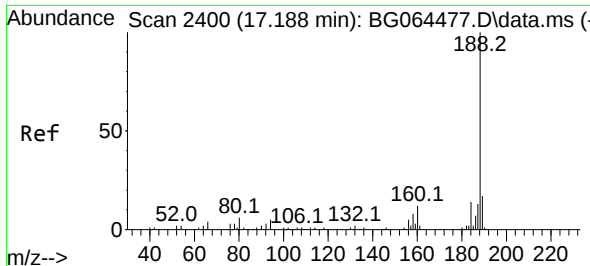
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025



#45
2-Fluorobiphenyl
Concen: 8.620 ng
RT: 13.067 min Scan# 1698
Delta R.T. -0.000 min
Lab File: BG064556.D
Acq: 20 Oct 2025 19:27

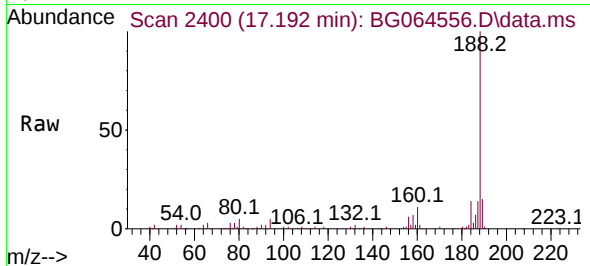
Tgt Ion: 172 Resp: 28915
Ion Ratio Lower Upper
172 100
171 35.2 29.6 44.4
170 24.1 20.2 30.2





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.192 min Scan# 2400
Delta R.T. 0.006 min
Lab File: BG064556.D
Acq: 20 Oct 2025 19:27

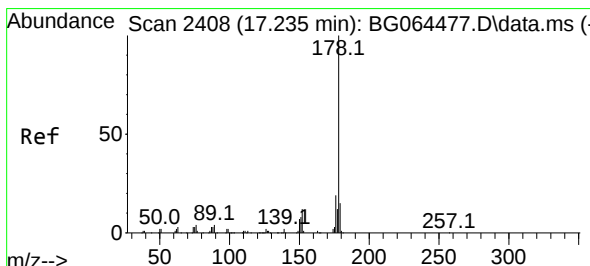
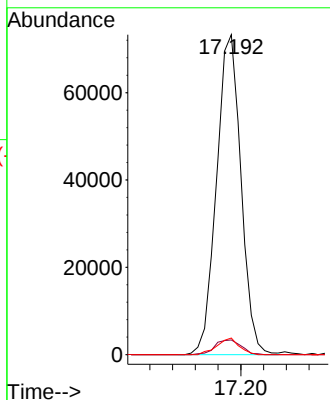
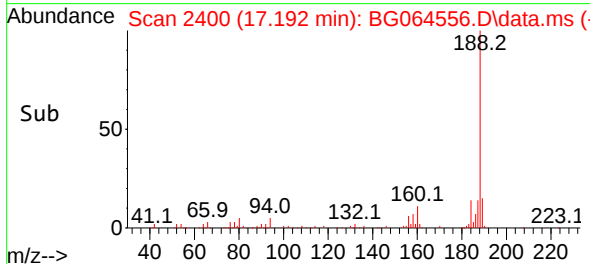
Instrument :
BNA_G
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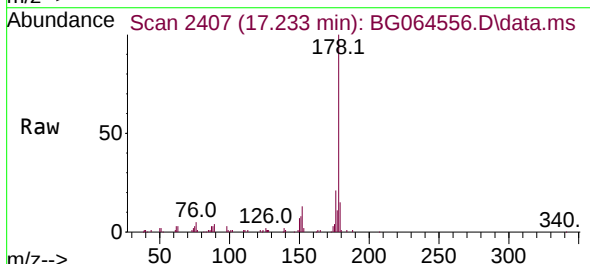
Tgt Ion:188 Resp: 109227
Ion Ratio Lower Upper
188 100
94 4.6 3.7 5.5
80 5.2 4.5 6.7

Manual Integrations
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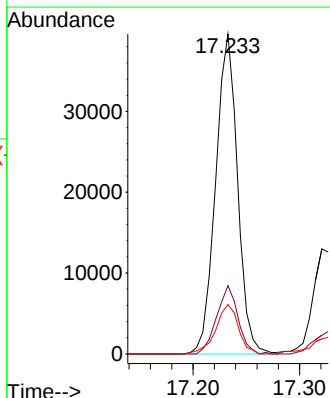
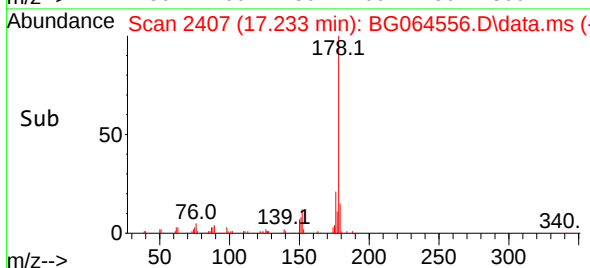
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025

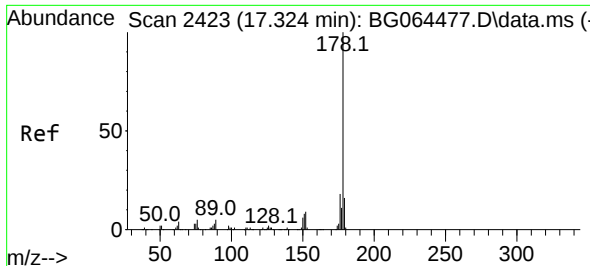


#71
Phenanthrene
Concen: 9.932 ng
RT: 17.233 min Scan# 2407
Delta R.T. 0.006 min
Lab File: BG064556.D
Acq: 20 Oct 2025 19:27



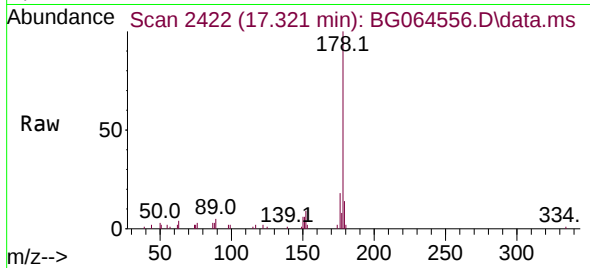
Tgt Ion:178 Resp: 56732
Ion Ratio Lower Upper
178 100
176 21.3 15.2 22.8
179 15.4 11.8 17.6





#72
 Anthracene
 Concen: 3.308 ng
 RT: 17.321 min Scan# 2423
 Delta R.T. -0.000 min
 Lab File: BG064556.D
 Acq: 20 Oct 2025 19:27

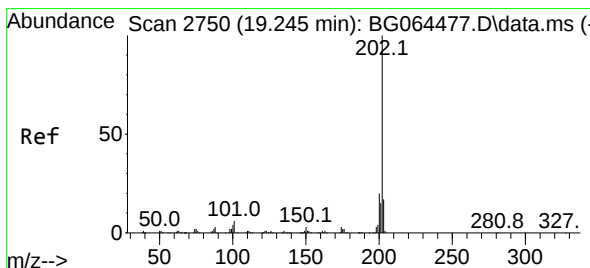
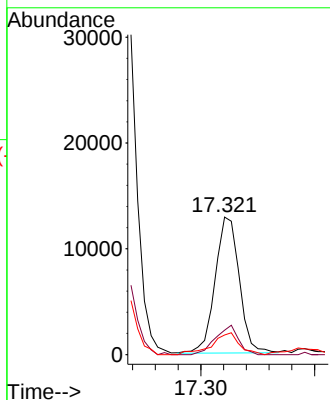
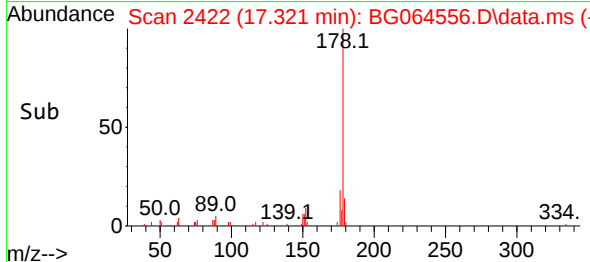
Instrument :
 BNA_G
 ClientSampleId :
 OR-03-101725



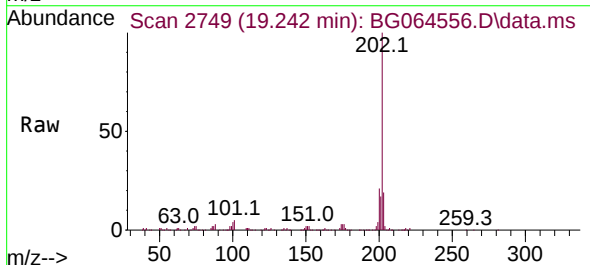
Tgt Ion:178 Resp: 18959
 Ion Ratio Lower Upper
 178 100
 176 17.7 14.6 21.8
 179 14.3 12.5 18.7

Manual Integrations
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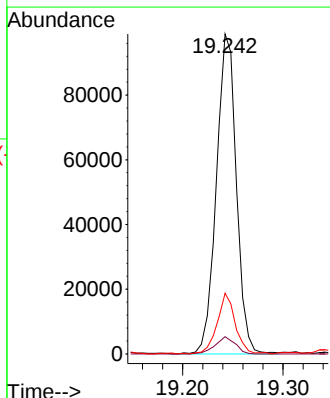
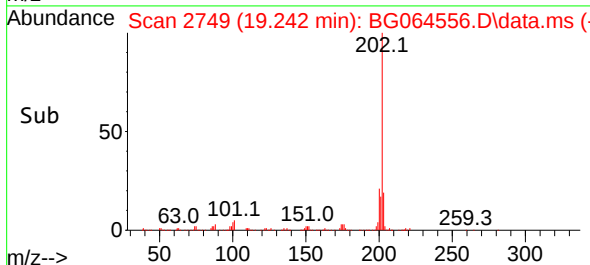
Reviewed By :Rahul Chavli 10/21/2025
 Supervised By :Jagrut Upadhyay 10/21/2025

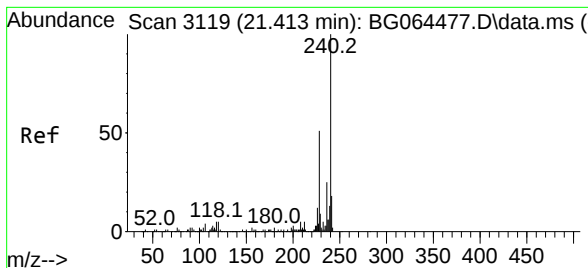


#75
 Fluoranthene
 Concen: 20.112 ng
 RT: 19.242 min Scan# 2749
 Delta R.T. 0.006 min
 Lab File: BG064556.D
 Acq: 20 Oct 2025 19:27



Tgt Ion:202 Resp: 137245
 Ion Ratio Lower Upper
 202 100
 101 5.4 0.0 25.7
 203 18.9 0.0 36.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.416 min Scan# 3119

Delta R.T. 0.006 min

Lab File: BG064556.D

Acq: 20 Oct 2025 19:27

Instrument :

BNA_G

ClientSampleId :

OR-03-101725

Tgt Ion:240 Resp: 122910

Ion Ratio Lower Upper

240 100

120 5.0 4.3 6.5

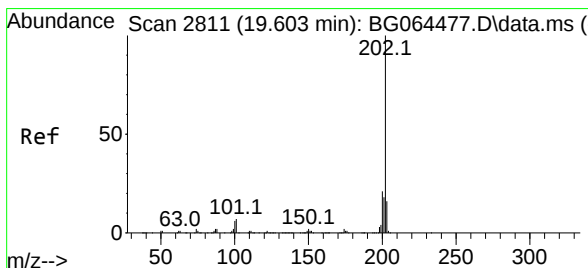
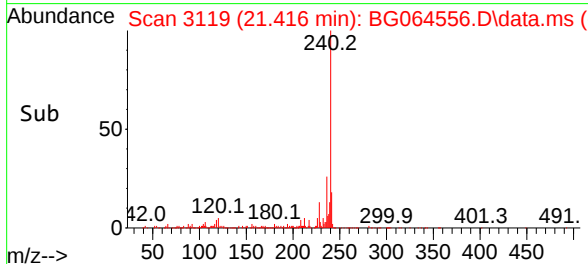
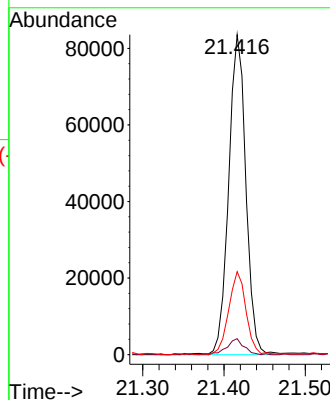
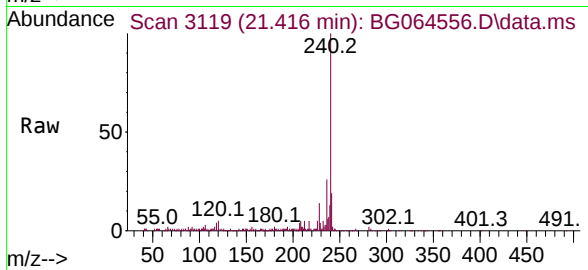
236 25.9 20.4 30.6

Manual Integrations

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Reviewed By :Rahul Chavli 10/21/2025

Supervised By :Jagrut Upadhyay 10/21/2025



#78

Pyrene

Concen: 15.232 ng

RT: 19.606 min Scan# 2811

Delta R.T. 0.006 min

Lab File: BG064556.D

Acq: 20 Oct 2025 19:27

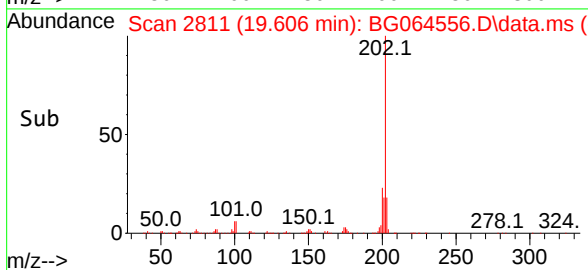
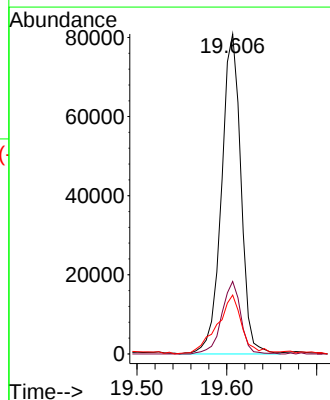
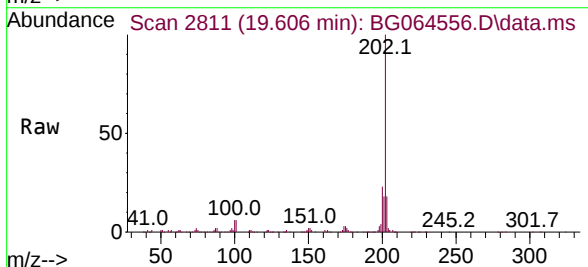
Tgt Ion:202 Resp: 121498

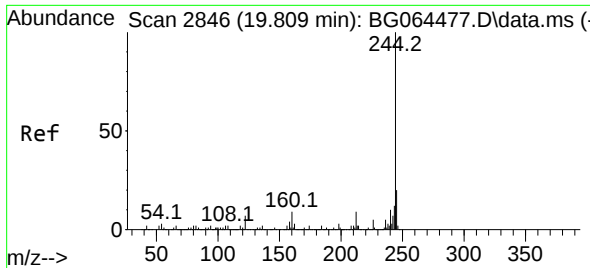
Ion Ratio Lower Upper

202 100

200 22.6 17.0 25.4

203 18.4 13.0 19.4





#79
 Terphenyl-d14
 Concen: 8.741 ng
 RT: 19.806 min Scan# 2845
 Delta R.T. -0.000 min
 Lab File: BG064556.D
 Acq: 20 Oct 2025 19:27

Instrument :

BNA_G

ClientSampleId :

OR-03-101725

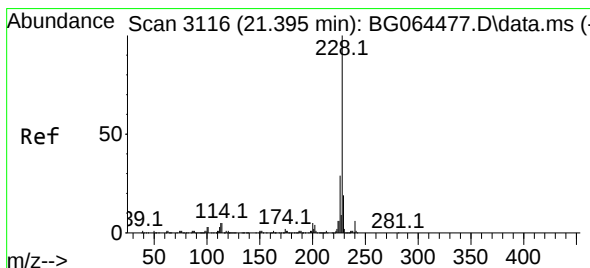
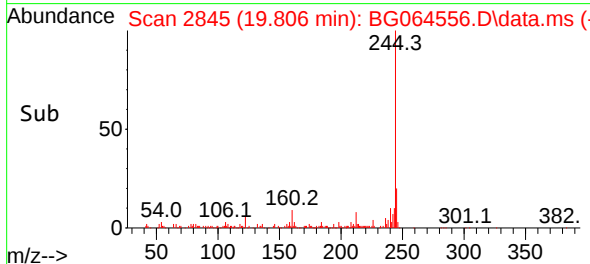
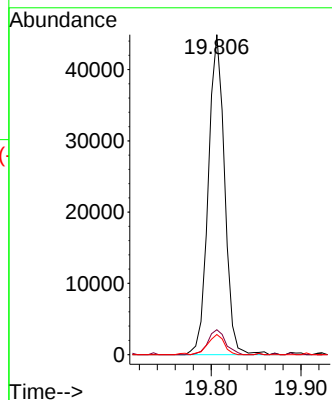
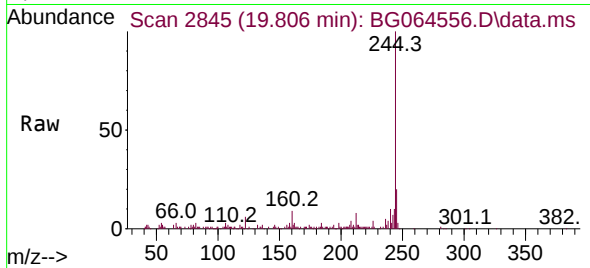
Tgt Ion:244 Resp: 56769
 Ion Ratio Lower Upper
 244 100
 212 7.8 7.0 10.6
 122 6.3 5.6 8.4

Manual Integrations

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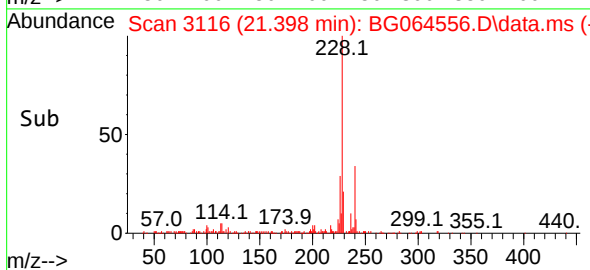
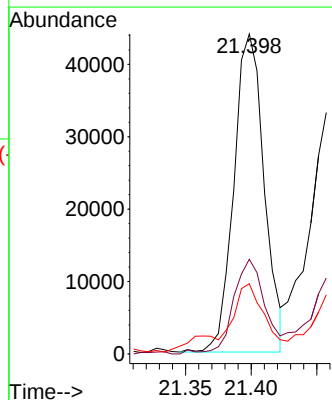
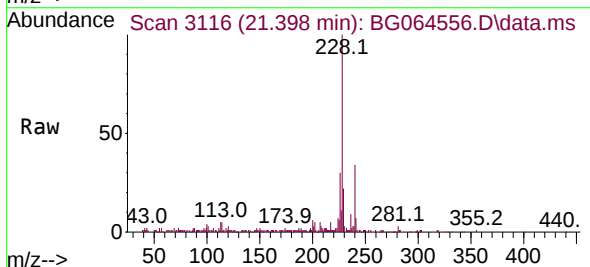
Reviewed By :Rahul Chavli 10/21/2025

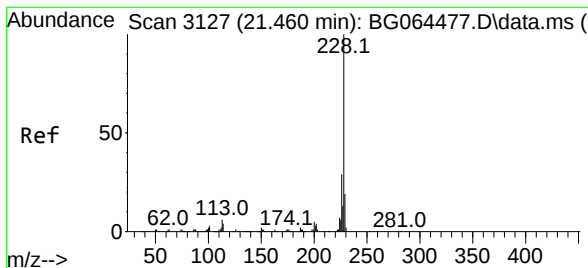
Supervised By :Jagrut Upadhyay 10/21/2025



#81
 Benzo(a)anthracene
 Concen: 8.993 ng
 RT: 21.398 min Scan# 3116
 Delta R.T. 0.006 min
 Lab File: BG064556.D
 Acq: 20 Oct 2025 19:27

Tgt Ion:228 Resp: 70579
 Ion Ratio Lower Upper
 228 100
 226 29.6 22.8 34.2
 229 21.9 15.2 22.8





#83

Chrysene

Concen: 8.295 ng m

RT: 21.457 min Scan# 3127

Delta R.T. 0.006 min

Lab File: BG064556.D

Acq: 20 Oct 2025 19:27

Instrument :

BNA_G

ClientSampleId :

OR-03-101725

Tgt Ion:228 Resp: 61734

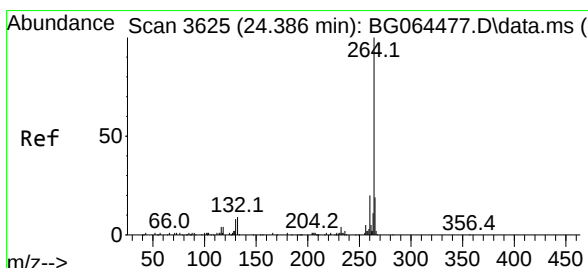
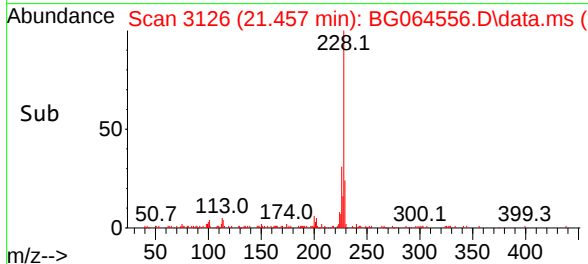
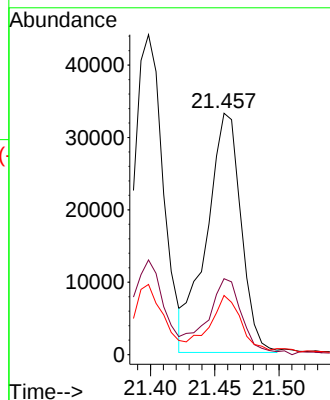
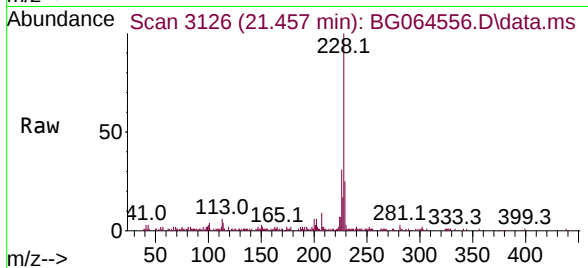
Ion	Ratio	Lower	Upper
228	100		
226	31.4	22.8	34.2
229	24.5	15.4	23.0

Manual Integrations

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Reviewed By :Rahul Chavli 10/21/2025

Supervised By :Jagrut Upadhyay 10/21/2025



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.407 min Scan# 3628

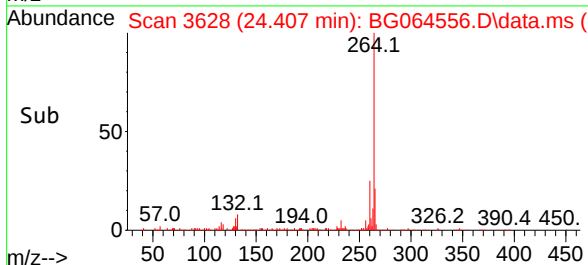
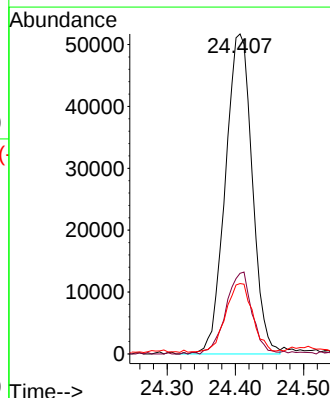
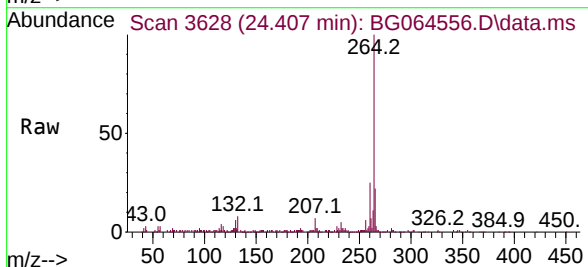
Delta R.T. 0.017 min

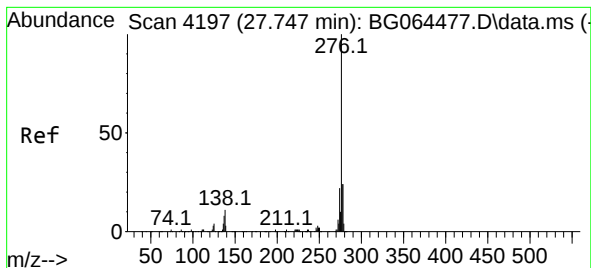
Lab File: BG064556.D

Acq: 20 Oct 2025 19:27

Tgt Ion:264 Resp: 141067

Ion	Ratio	Lower	Upper
264	100		
260	25.2	16.2	24.4
265	22.0	15.0	22.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.159 ng

RT: 27.767 min Scan# 4197

Delta R.T. 0.035 min

Lab File: BG064556.D

Acq: 20 Oct 2025 19:27

Instrument :

BNA_G

ClientSampleId :

OR-03-101725

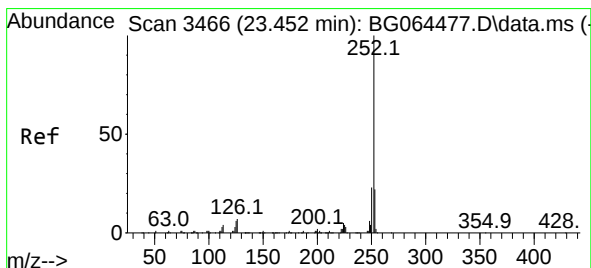
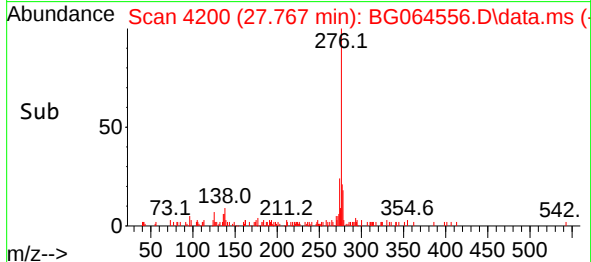
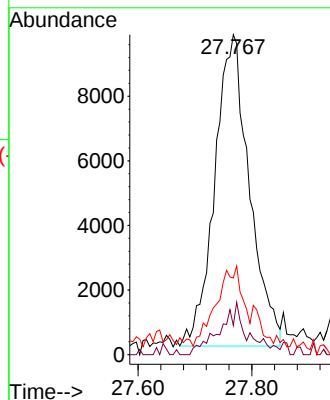
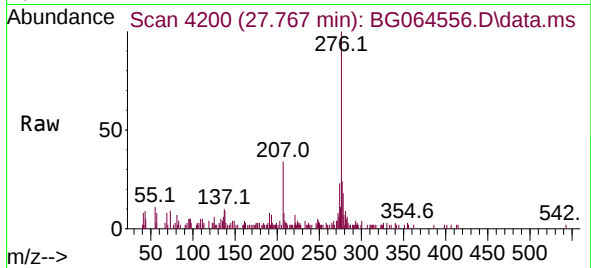
Tgt Ion:	276	Resp:	4084
Ion Ratio	Lower	Upper	
276	100		
138	10.3	10.8	16.2
277	19.7	20.3	30.5

Manual Integrations

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Reviewed By :Rahul Chavli 10/21/2025

Supervised By :Jagrut Upadhyay 10/21/2025



#88

Benzo(b)fluoranthene

Concen: 10.673 ng

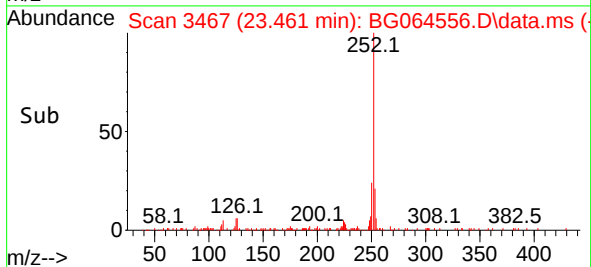
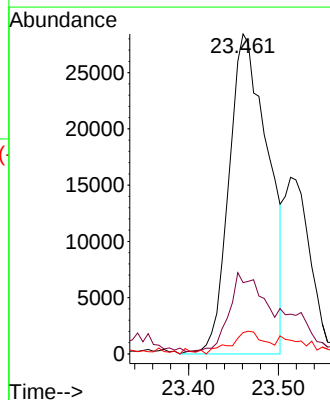
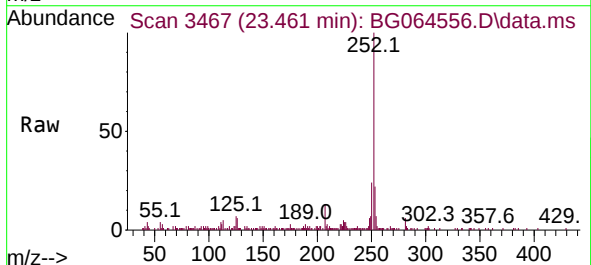
RT: 23.461 min Scan# 3467

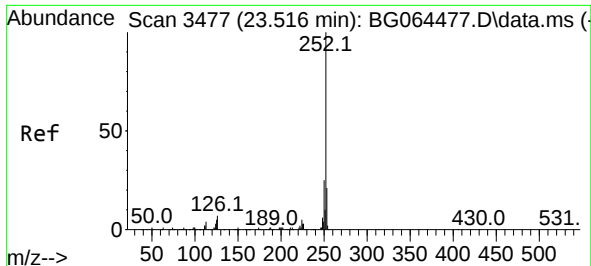
Delta R.T. 0.012 min

Lab File: BG064556.D

Acq: 20 Oct 2025 19:27

Tgt Ion:	252	Resp:	85655
Ion Ratio	Lower	Upper	
252	100		
253	22.3	17.5	26.3
125	6.7	4.5	6.7





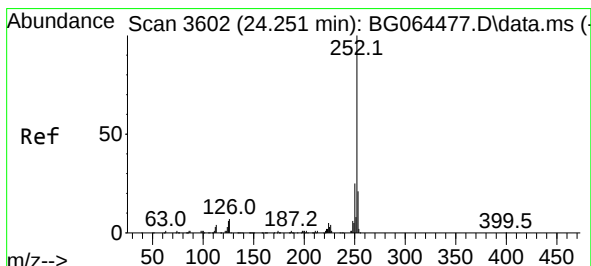
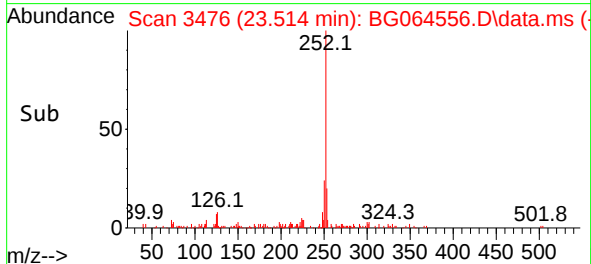
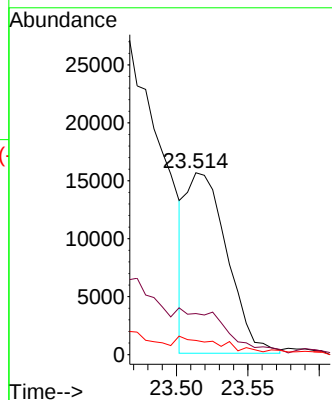
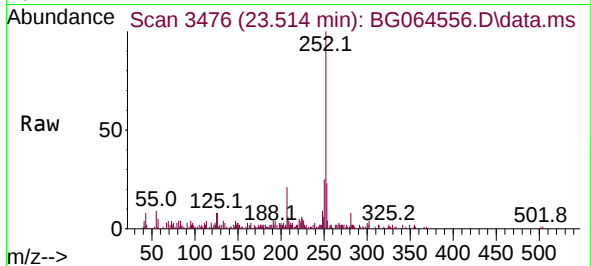
#89
Benzo(k)fluoranthene
Concen: 3.835 ng m
RT: 23.514 min Scan# 3477
Delta R.T. 0.006 min
Lab File: BG064556.D
Acq: 20 Oct 2025 19:27

Instrument :
BNA_G
ClientSampleId :
OR-03-101725

Tgt Ion:252 Resp: 30995
Ion Ratio Lower Upper
252 100
253 22.6 17.4 26.2
125 7.8 4.0 6.0

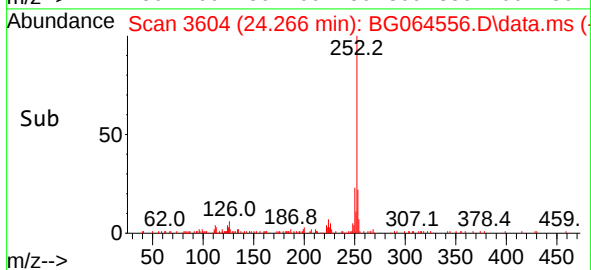
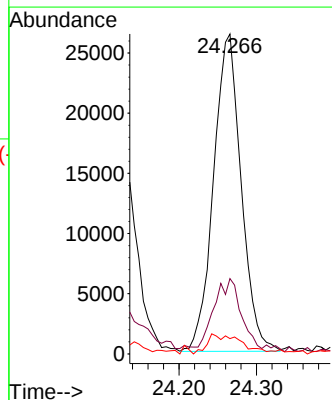
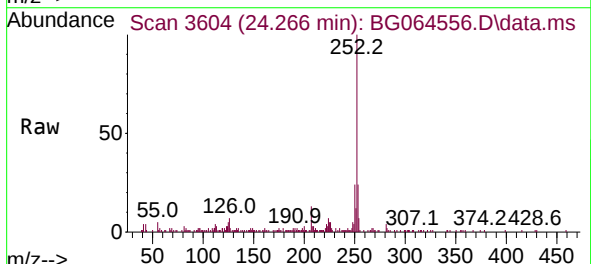
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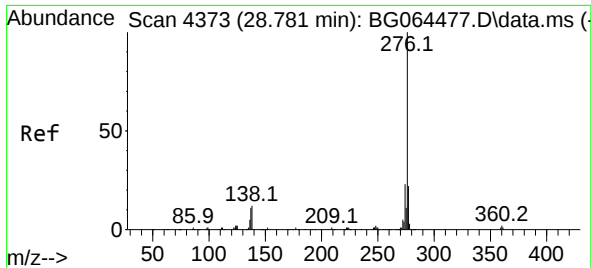
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025



#90
Benzo(a)pyrene
Concen: 8.831 ng
RT: 24.266 min Scan# 3604
Delta R.T. 0.017 min
Lab File: BG064556.D
Acq: 20 Oct 2025 19:27

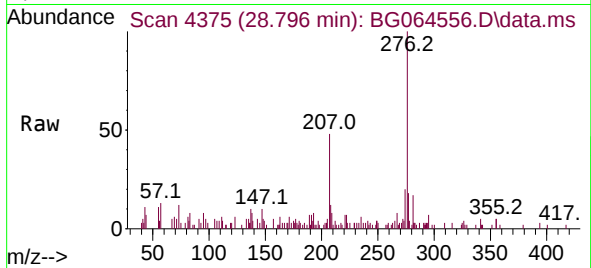
Tgt Ion:252 Resp: 65317
Ion Ratio Lower Upper
252 100
253 23.5 17.1 25.7
125 4.8 4.6 6.8





#92
 Benzo(g,h,i)perylene
 Concen: 5.164 ng m
 RT: 28.796 min Scan# 4375
 Delta R.T. 0.029 min
 Lab File: BG064556.D
 Acq: 20 Oct 2025 19:27

Instrument :
 BNA_G
 ClientSampleId :
 OR-03-101725



Tgt Ion:	276	Resp:	39409
Ion Ratio	Lower	Upper	
276	100		
277	18.2	17.8	26.6
138	8.5	9.4	14.0

Manual Integrations
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Reviewed By :Rahul Chavli 10/21/2025
 Supervised By :Jagrut Upadhyay 10/21/2025

