

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
 Data File : BM050068.D
 Acq On : 01 May 2025 17:23
 Operator : RC/JU
 Sample : Q1905-05
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MH-H

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/02/2025
 Supervised By :Jagrut Upadhyay 05/02/2025

Quant Time: May 01 18:07:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 18:09:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.745	152	234921	20.000	ng	-0.02
21) Naphthalene-d8	10.539	136	809180	20.000	ng	-0.02
39) Acenaphthene-d10	14.392	164	514047	20.000	ng	-0.02
64) Phenanthrene-d10	17.139	188	1046698	20.000	ng	-0.02
76) Chrysene-d12	21.380	240	1208181	20.000	ng	-0.02
86) Perylene-d12	24.368	264	1289580	20.000	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.340	112	1198973	89.370	ng	-0.02
7) Phenol-d6	6.934	99	1485909	88.122	ng	-0.02
23) Nitrobenzene-d5	8.904	82	890993	54.259	ng	-0.02
42) 2,4,6-Tribromophenol	15.892	330	669309	88.057	ng	-0.01
45) 2-Fluorobiphenyl	13.010	172	2247722	51.727	ng	-0.02
79) Terphenyl-d14	19.768	244	3922716	48.044	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	10.592	128	171414	4.183	ng	98
37) 2-Methylnaphthalene	12.216	142	63843	2.324	ng	97
49) Acenaphthylene	14.116	152	223681	4.688	ng	98
55) Dibenzofuran	14.798	168	111562	2.428	ng	98
58) Fluorene	15.445	166	124735	3.316	ng	97
60) Diethylphthalate	15.215	149	73250	2.069	ng	99
71) Phenanthrene	17.180	178	1081301	18.316	ng	100
72) Anthracene	17.274	178	333277	5.579	ng	99
74) Di-n-butylphthalate	18.109	149	141108	2.286	ng	98
75) Fluoranthene	19.198	202	1503225	21.688	ng	99
78) Pyrene	19.562	202	1560705	18.395	ng	99
81) Benzo(a)anthracene	21.362	228	829965	9.976	ng	97
83) Chrysene	21.421	228	762992	9.909	ng	98
87) Indeno(1,2,3-cd)pyrene	27.738	276	726065	7.556	ng	97
88) Benzo(b)fluoranthene	23.427	252	1384224	16.505	ng	99
89) Benzo(k)fluoranthene	23.486	252	430431m	5.074	ng	
90) Benzo(a)pyrene	24.227	252	988333	12.582	ng	99
91) Dibenzo(a,h)anthracene	27.785	278	183030	2.337	ng	97
92) Benzo(g,h,i)perylene	28.785	276	722878	9.640	ng	100

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

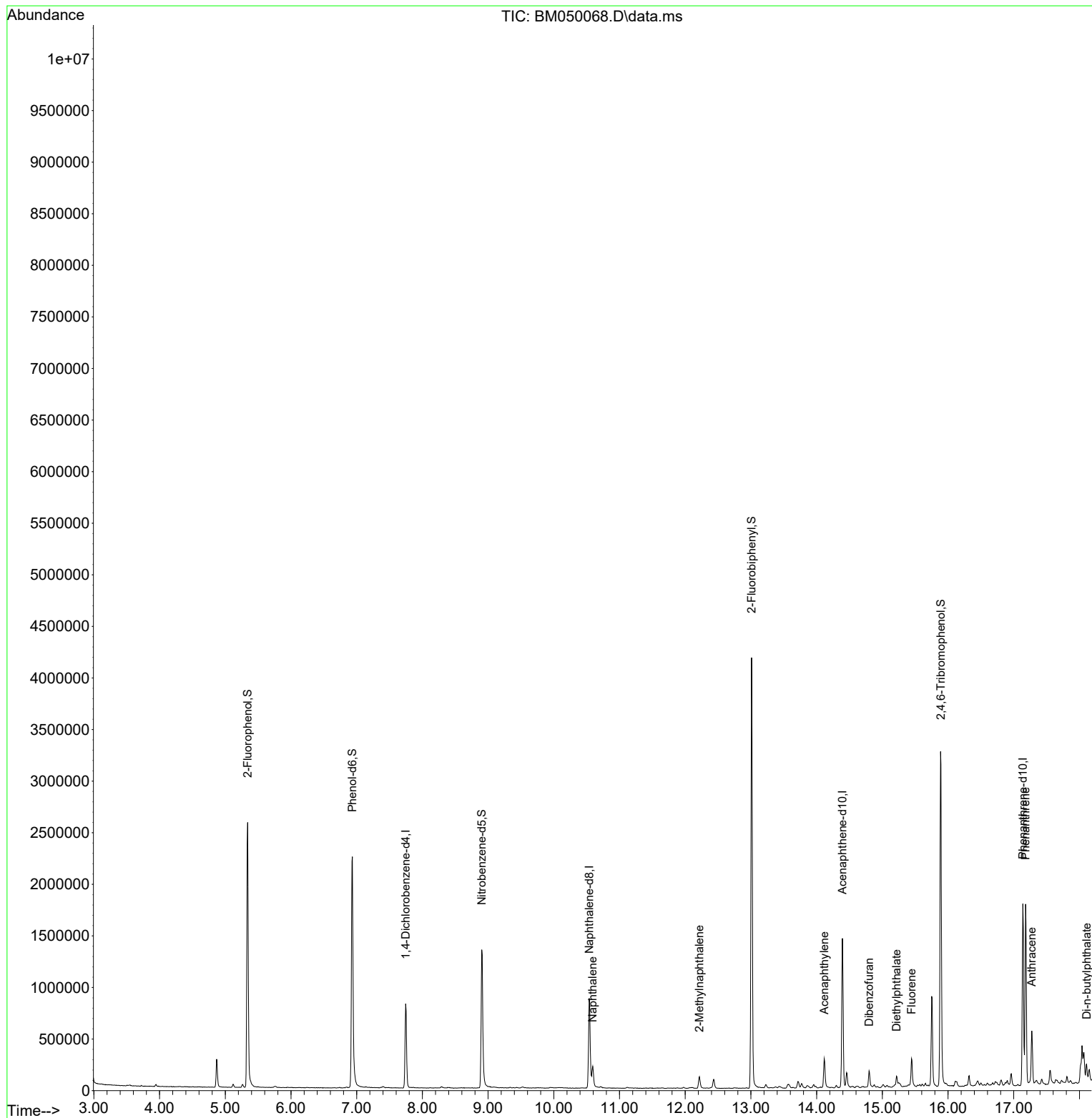
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050068.D
Acq On : 01 May 2025 17:23
Operator : RC/JU
Sample : Q1905-05
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
MH-H

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

Quant Time: May 01 18:07:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 18:09:16 2025
Response via : Initial Calibration



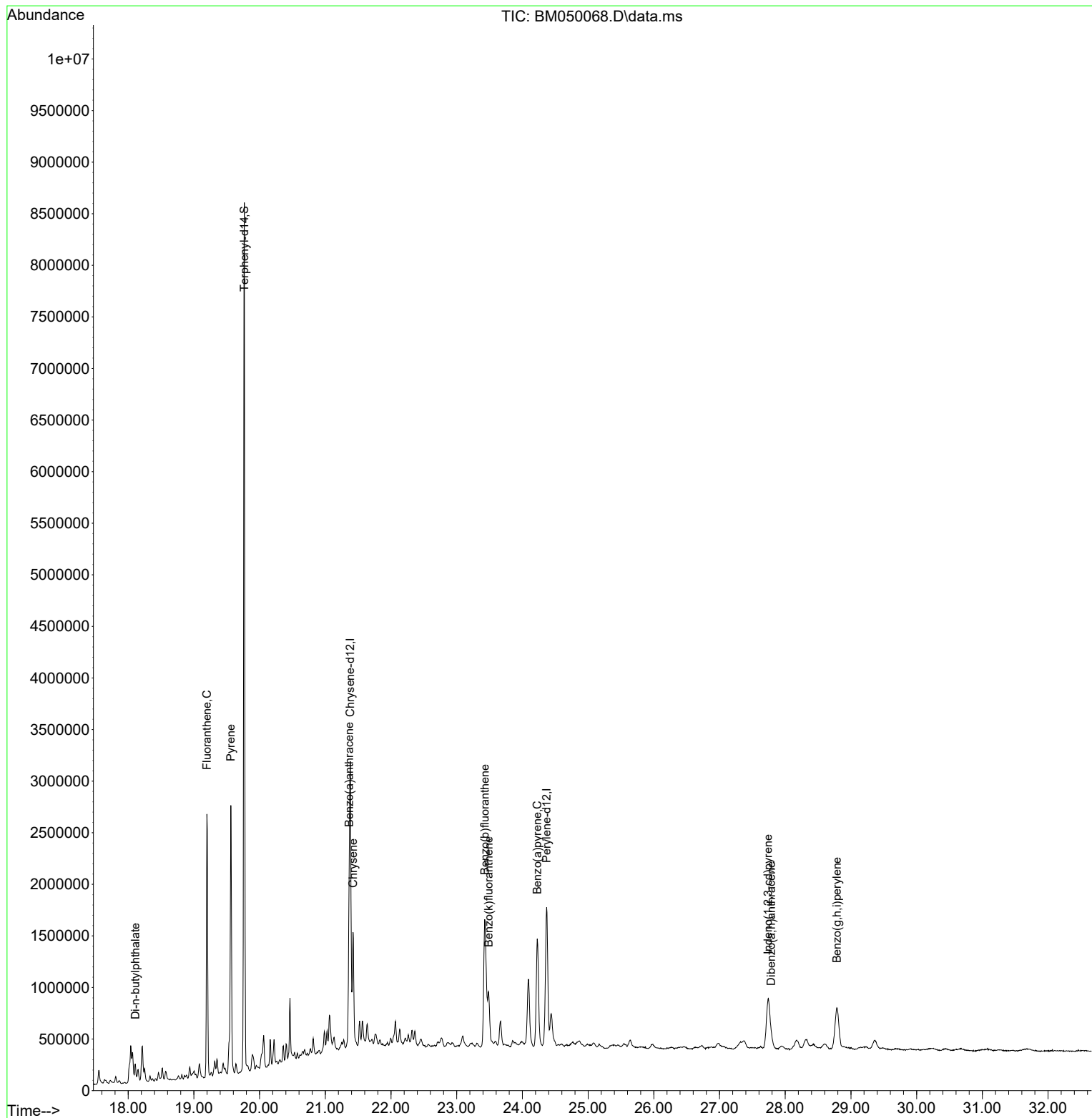
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Operator : RC/JU
Sample : Q1905-05
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
MH-H

Quant Time: May 01 18:07:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 18:09:16 2025
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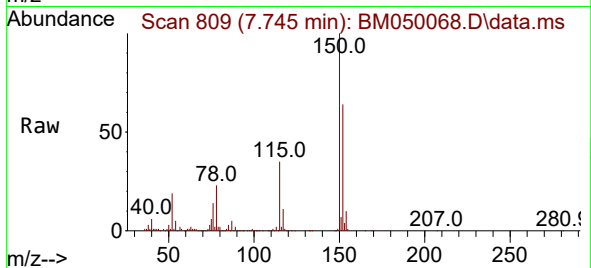
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.745 min Scan# 80
Delta R.T. -0.024 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23

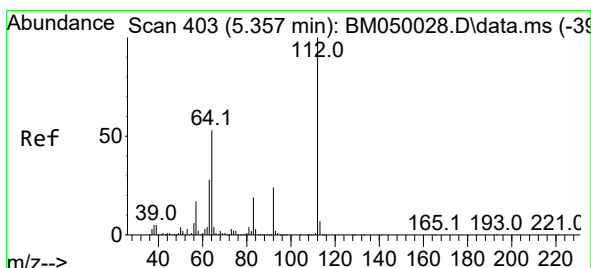
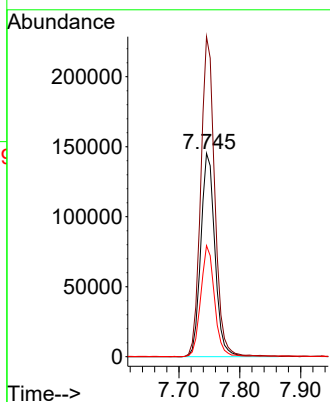
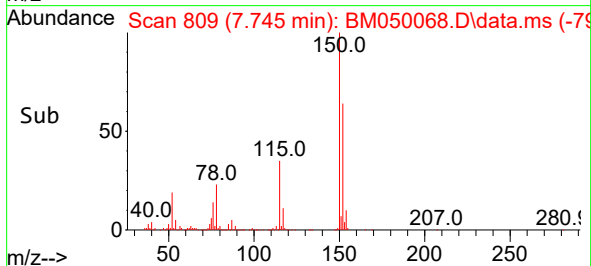
Instrument :
BNA_M
ClientSampleId :
MH-H



Tgt Ion:152 Resp: 23492
Ion Ratio Lower Upper
152 100
150 157.4 124.1 186.1
115 54.6 41.2 61.8

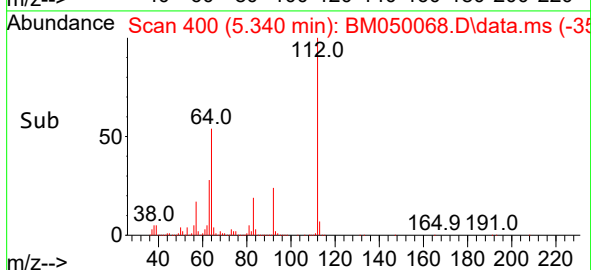
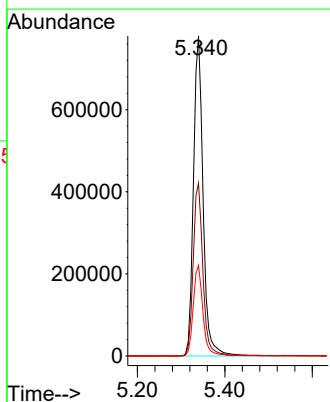
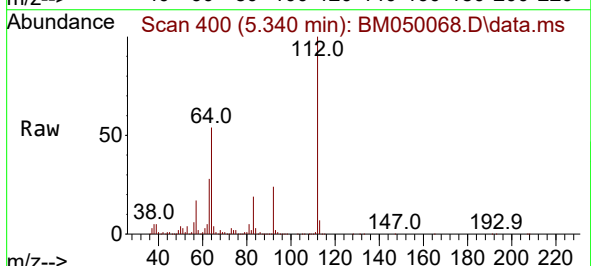
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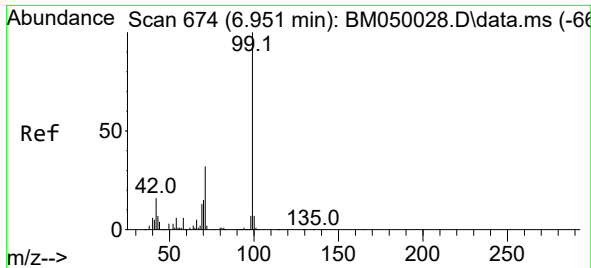
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025



#5
2-Fluorophenol
Concen: 89.370 ng
RT: 5.340 min Scan# 400
Delta R.T. -0.018 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23

Tgt Ion:112 Resp: 1198973
Ion Ratio Lower Upper
112 100
64 54.0 42.6 64.0
63 28.3 22.2 33.4





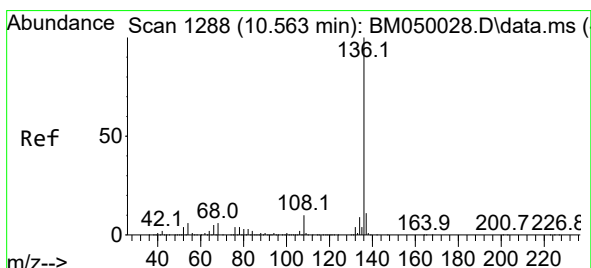
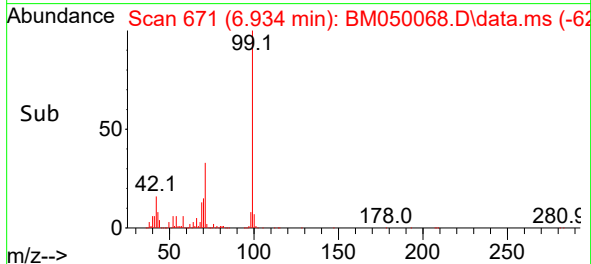
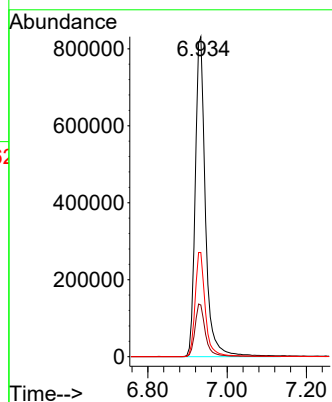
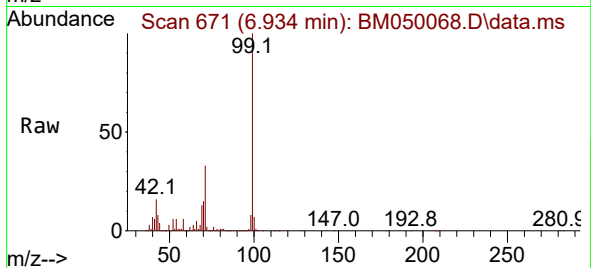
#7
Phenol-d6
Concen: 88.122 ng
RT: 6.934 min Scan# 61
Delta R.T. -0.018 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23

Instrument :
BNA_M
ClientSampleId :
MH-H

Tgt Ion: 99 Resp: 1485909
Ion Ratio Lower Upper
99 100
42 16.2 13.0 19.4
71 32.5 25.6 38.4

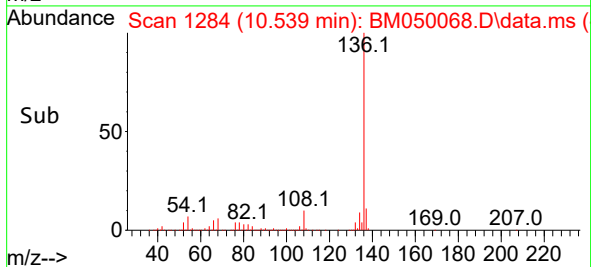
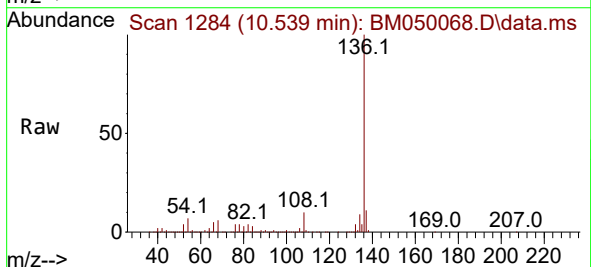
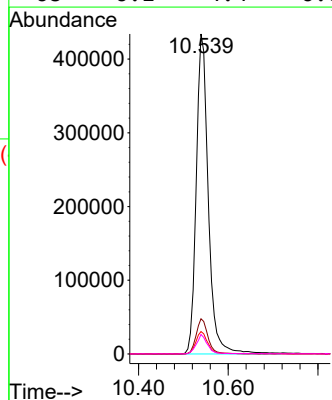
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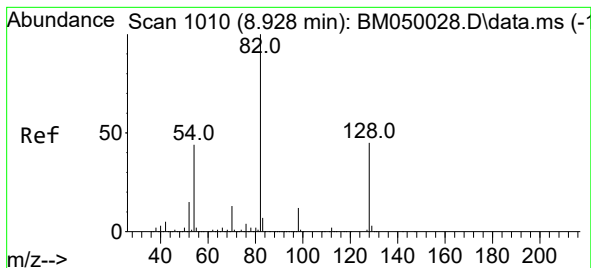
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.539 min Scan# 1284
Delta R.T. -0.024 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23

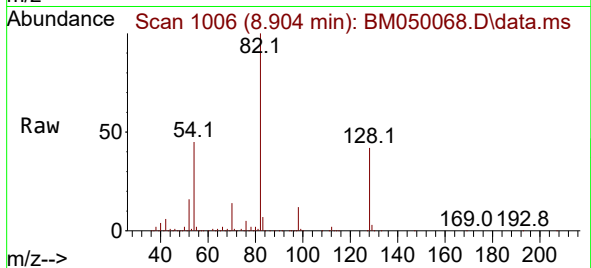
Tgt Ion:136 Resp: 809180
Ion Ratio Lower Upper
136 100
137 11.0 8.9 13.3
54 7.0 5.1 7.7
68 6.1 4.4 6.6





#23
Nitrobenzene-d5
Concen: 54.259 ng
RT: 8.904 min Scan# 1006
Delta R.T. -0.024 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23

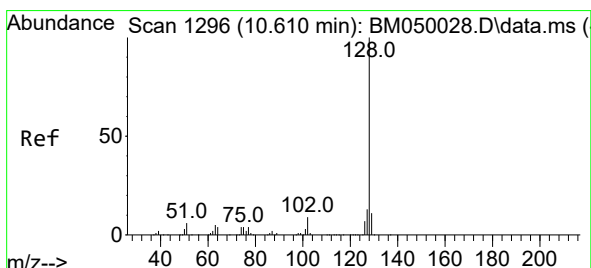
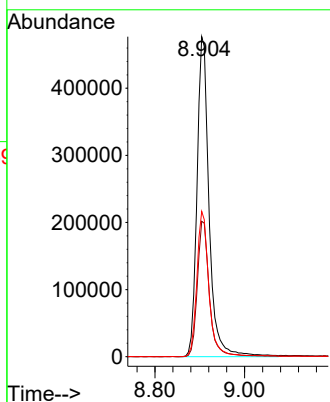
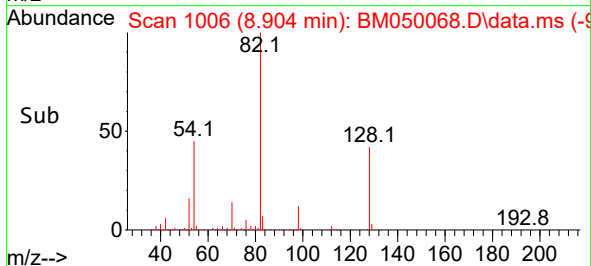
Instrument :
BNA_M
ClientSampleId :
MH-H



Tgt Ion: 82 Resp: 89099
Ion Ratio Lower Upper
82 100
128 42.3 35.7 53.5
54 45.4 35.4 53.2

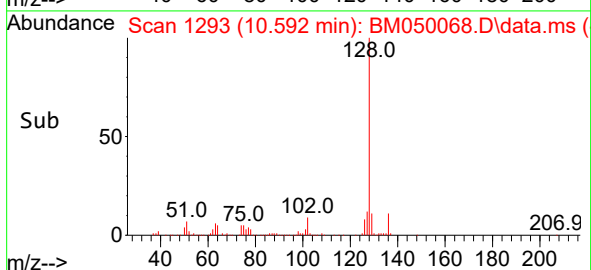
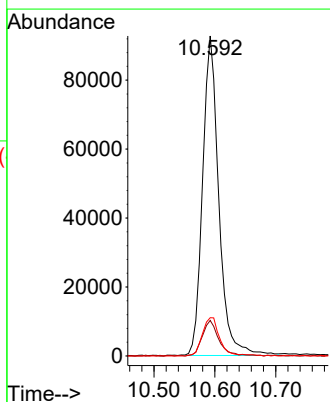
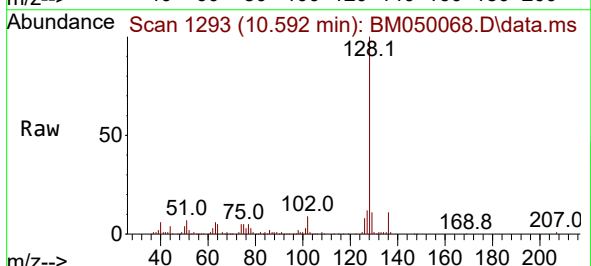
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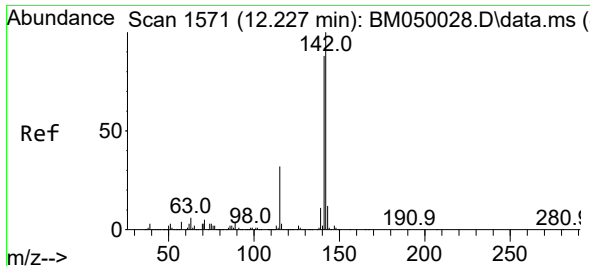
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025



#31
Naphthalene
Concen: 4.183 ng
RT: 10.592 min Scan# 1293
Delta R.T. -0.018 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23

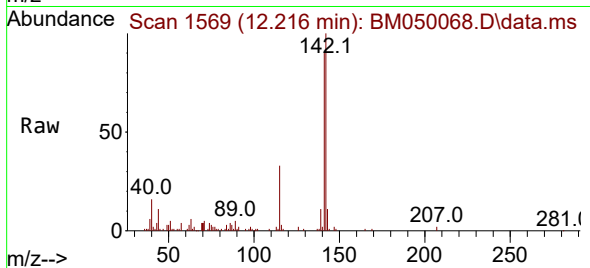
Tgt Ion:128 Resp: 171414
Ion Ratio Lower Upper
128 100
129 11.1 8.8 13.2
127 11.9 10.4 15.6





#37
2-Methylnaphthalene
Concen: 2.324 ng
RT: 12.216 min Scan# 11
Delta R.T. -0.012 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23

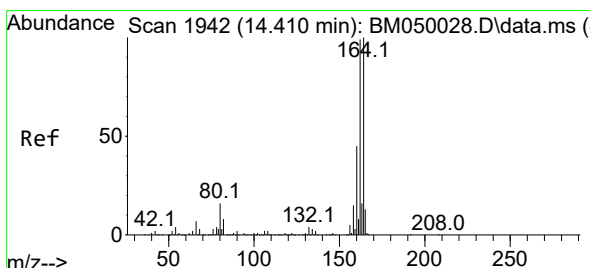
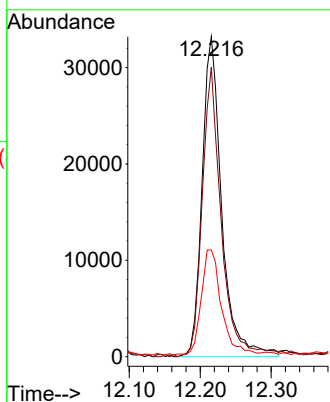
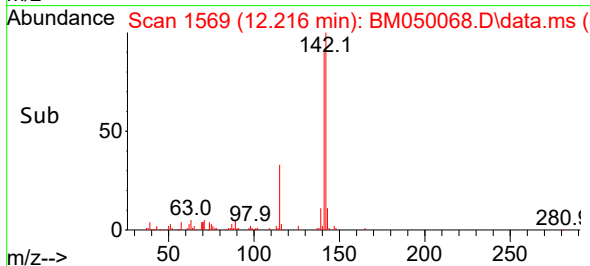
Instrument :
BNA_M
ClientSampleId :
MH-H



Tgt Ion:142 Resp: 6384
Ion Ratio Lower Upper
142 100
141 90.4 70.4 105.6
115 33.4 25.4 38.2

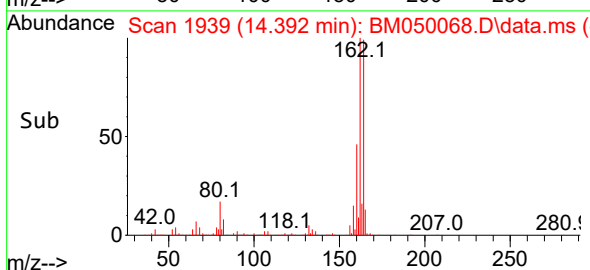
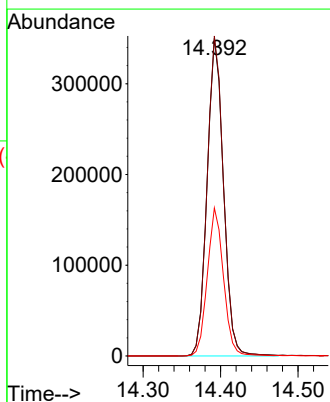
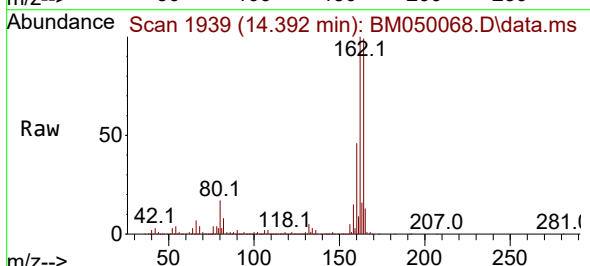
Manual Integrations
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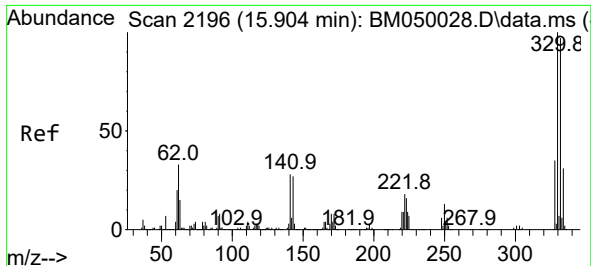
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.392 min Scan# 1939
Delta R.T. -0.018 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23

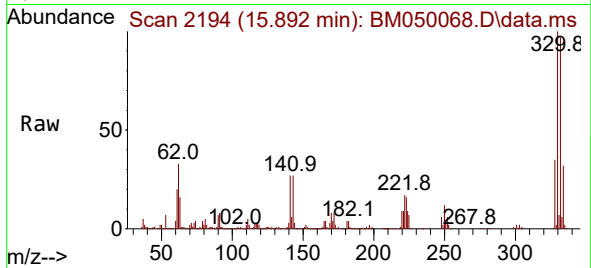
Tgt Ion:164 Resp: 514047
Ion Ratio Lower Upper
164 100
162 100.7 79.4 119.0
160 46.6 36.2 54.4





#42
2,4,6-Tribromophenol
Concen: 88.057 ng
RT: 15.892 min Scan# 2196
Delta R.T. -0.012 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23

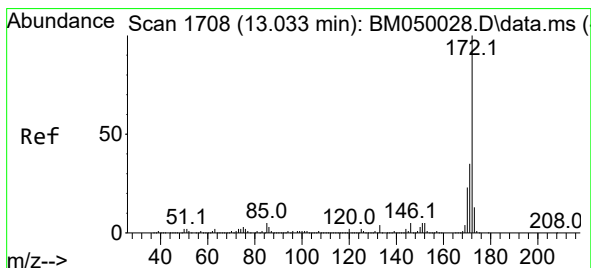
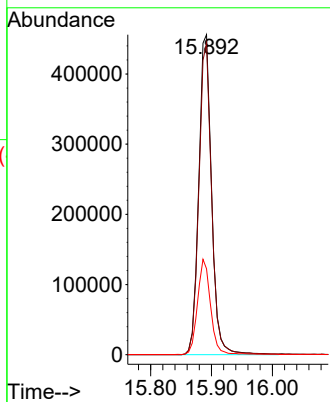
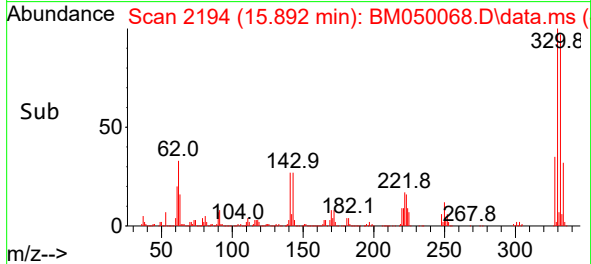
Instrument :
BNA_M
ClientSampleId :
MH-H



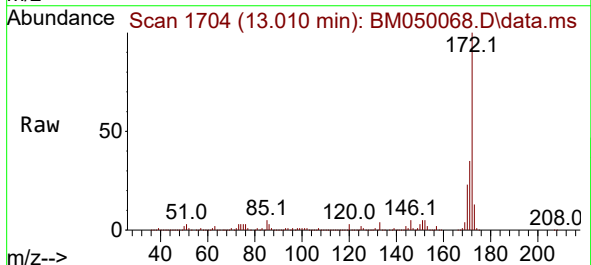
Tgt Ion:330 Resp: 669309
Ion Ratio Lower Upper
330 100
332 96.6 77.3 115.9
141 30.3 22.5 33.7

Manual Integrations
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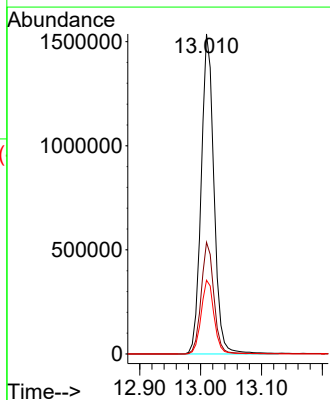
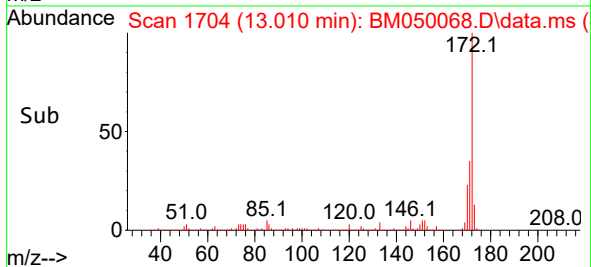
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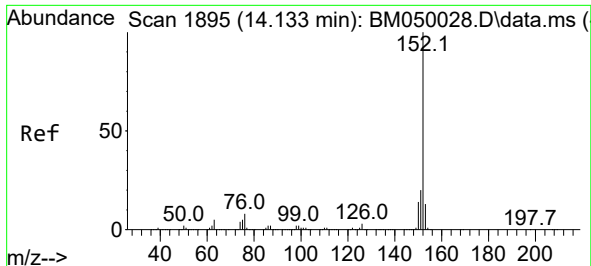


#45
2-Fluorobiphenyl
Concen: 51.727 ng
RT: 13.010 min Scan# 1704
Delta R.T. -0.024 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23



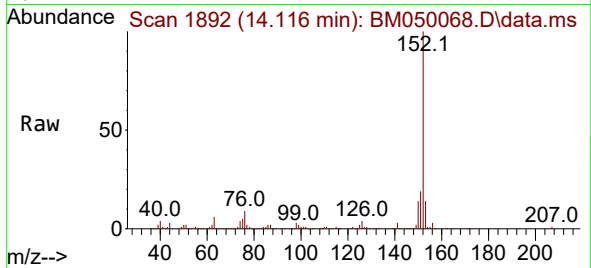
Tgt Ion:172 Resp: 2247722
Ion Ratio Lower Upper
172 100
171 34.9 27.8 41.6
170 23.1 18.6 28.0





#49
Acenaphthylene
Concen: 4.688 ng
RT: 14.116 min Scan# 11
Delta R.T. -0.018 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23

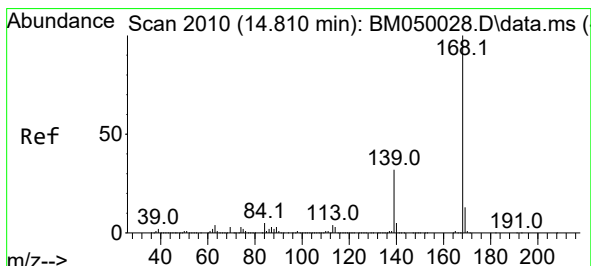
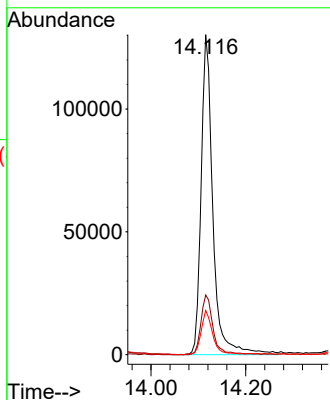
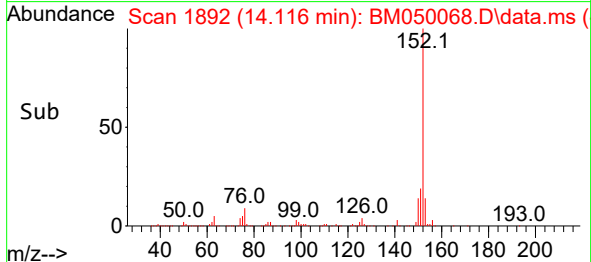
Instrument :
BNA_M
ClientSampleId :
MH-H



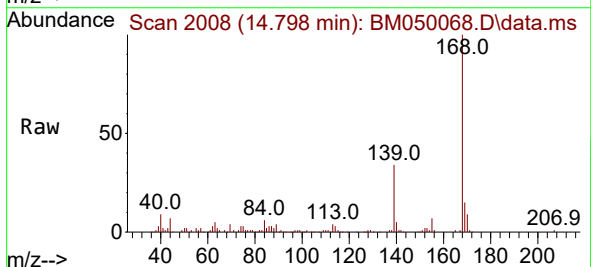
Tgt Ion:152 Resp: 22368
Ion Ratio Lower Upper
152 100
151 18.6 15.8 23.8
153 13.8 10.6 15.8

Manual Integrations
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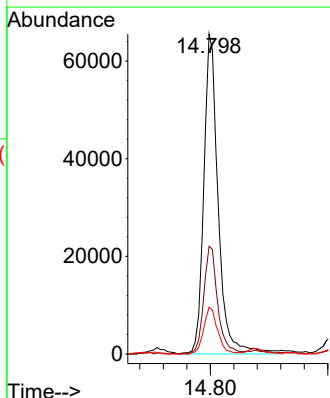
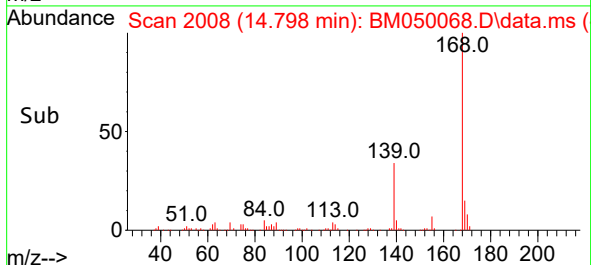
Reviewed By :Rahul Chavli 05/02/2025
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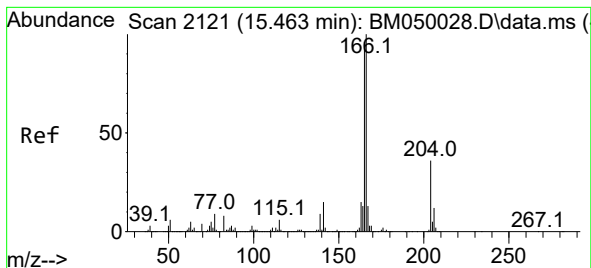


#55
Dibenzofuran
Concen: 2.428 ng
RT: 14.798 min Scan# 2008
Delta R.T. -0.012 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23



Tgt Ion:168 Resp: 111562
Ion Ratio Lower Upper
168 100
139 33.6 26.1 39.1
169 14.6 10.8 16.2





#58

Fluorene

Concen: 3.316 ng

RT: 15.445 min Scan# 21

Delta R.T. -0.018 min

Lab File: BM050068.D

Acq: 01 May 2025 17:23

Instrument :

BNA_M

ClientSampleId :

MH-H

Tgt Ion:166 Resp: 12473

Ion Ratio Lower Upper

166 100

165 99.3 76.6 115.0

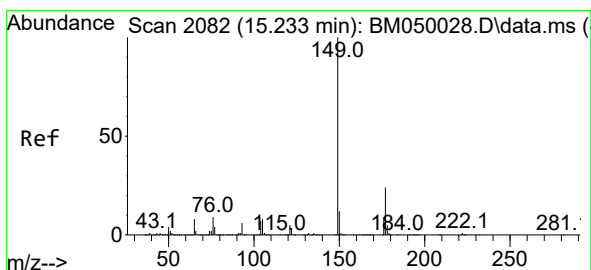
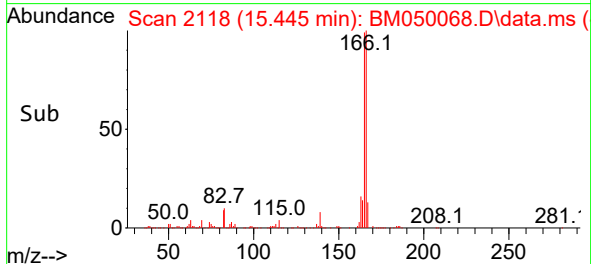
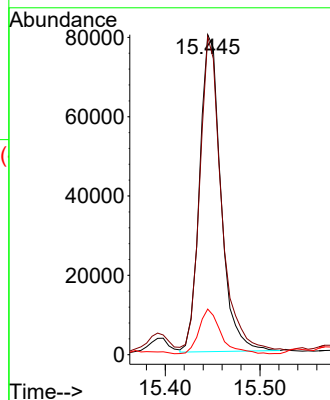
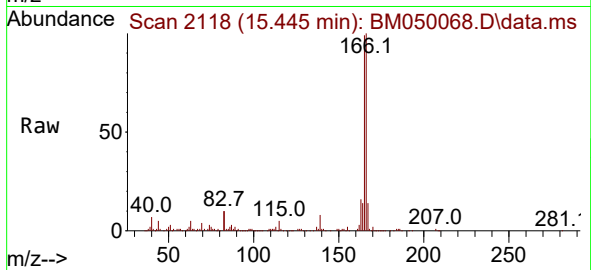
167 14.2 10.6 16.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/02/2025

Supervised By :Jagrut Upadhyay 05/02/2025



#60

Diethylphthalate

Concen: 2.069 ng

RT: 15.215 min Scan# 2079

Delta R.T. -0.018 min

Lab File: BM050068.D

Acq: 01 May 2025 17:23

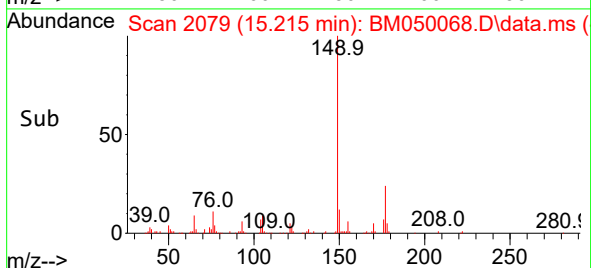
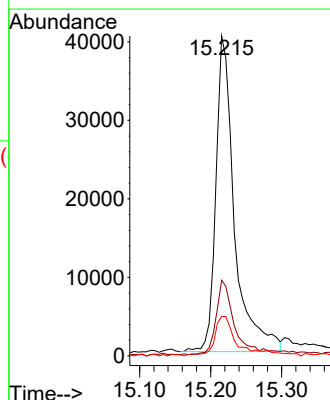
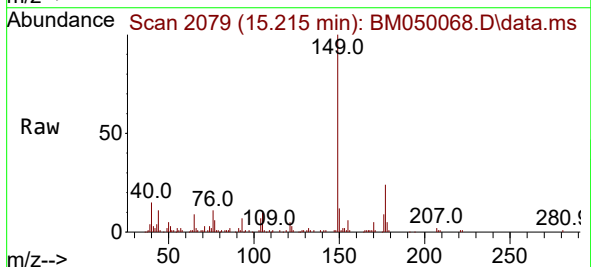
Tgt Ion:149 Resp: 73250

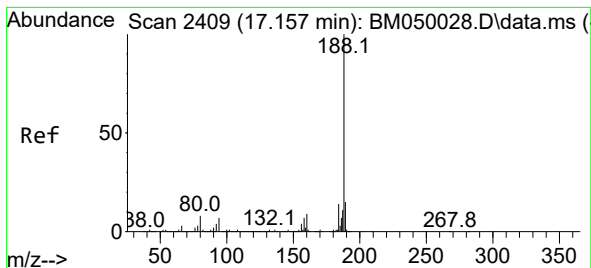
Ion Ratio Lower Upper

149 100

177 23.7 19.1 28.7

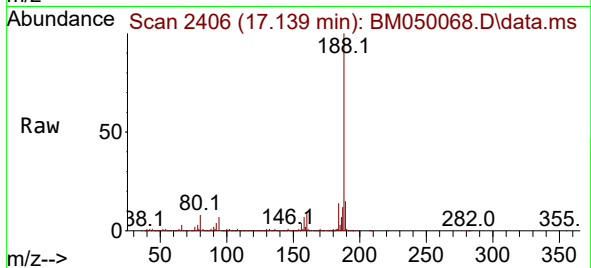
150 12.4 9.6 14.4





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.139 min Scan# 2406
Delta R.T. -0.018 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23

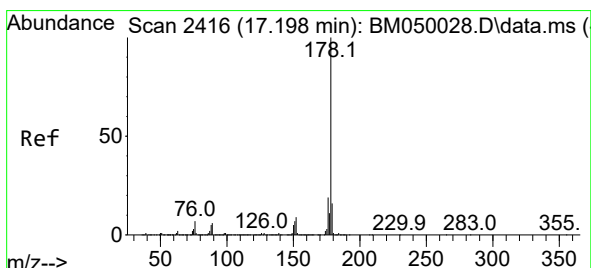
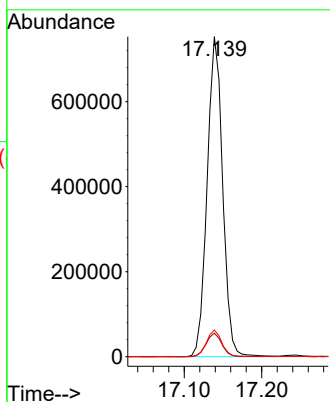
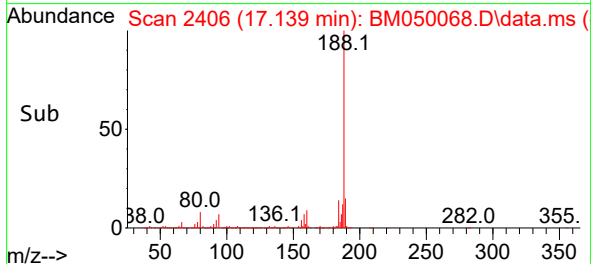
Instrument :
BNA_M
ClientSampleId :
MH-H



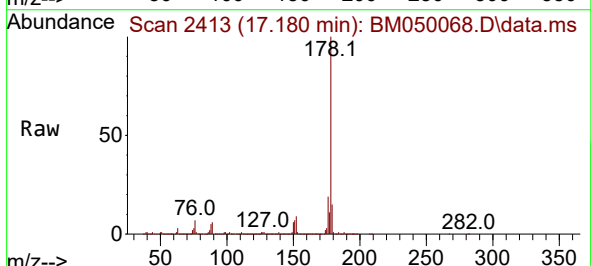
Tgt Ion:188 Resp: 1046698
Ion Ratio Lower Upper
188 100
94 7.3 5.7 8.5
80 8.3 6.2 9.4

Manual Integrations
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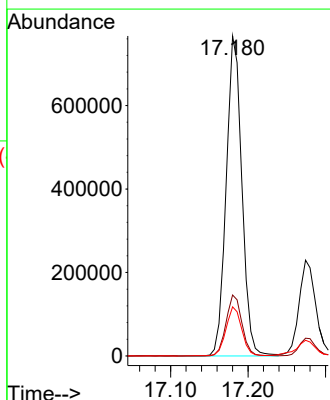
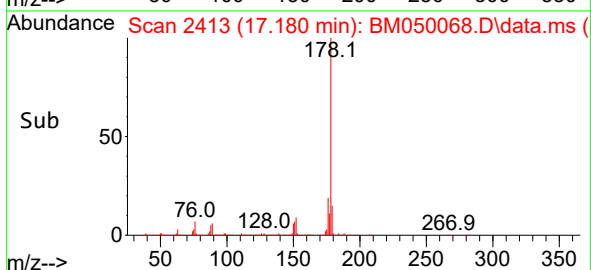
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

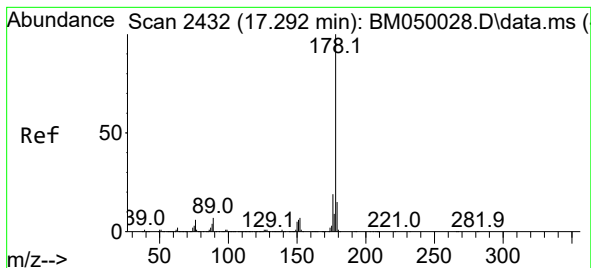


#71
Phenanthrene
Concen: 18.316 ng
RT: 17.180 min Scan# 2413
Delta R.T. -0.018 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23



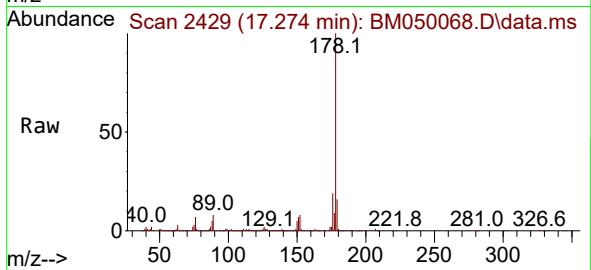
Tgt Ion:178 Resp: 1081301
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.4 12.4 18.6





#72
 Anthracene
 Concen: 5.579 ng
 RT: 17.274 min Scan# 2432
 Delta R.T. -0.018 min
 Lab File: BM050068.D
 Acq: 01 May 2025 17:23

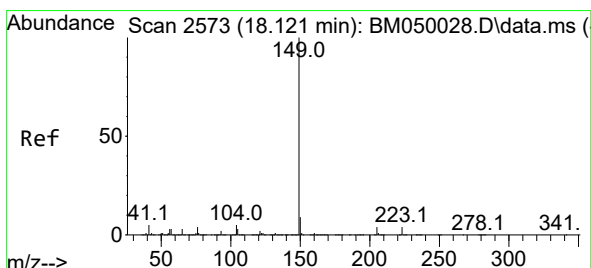
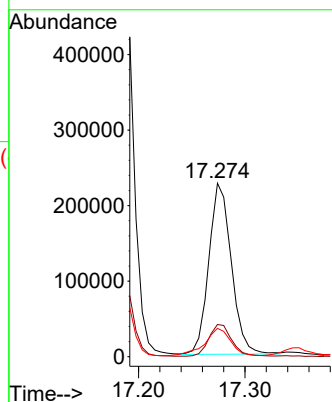
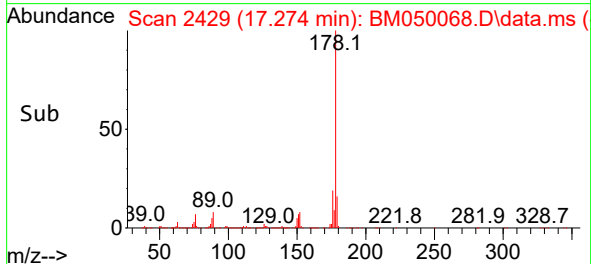
Instrument :
 BNA_M
 ClientSampleId :
 MH-H



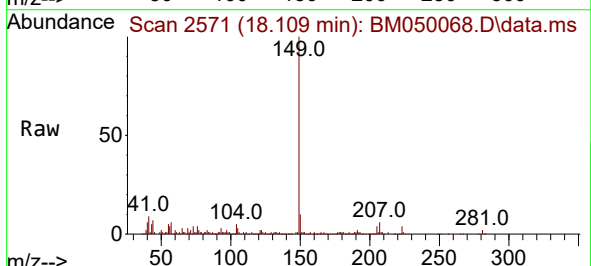
Tgt Ion:178 Resp: 33327
 Ion Ratio Lower Upper
 178 100
 176 18.5 15.0 22.4
 179 16.3 12.2 18.4

Manual Integrations
 APPROVED

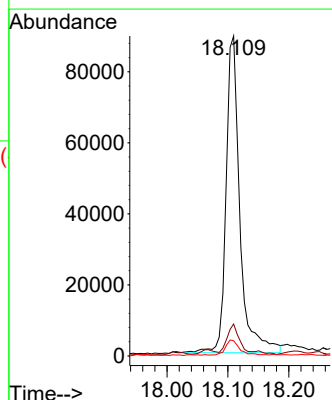
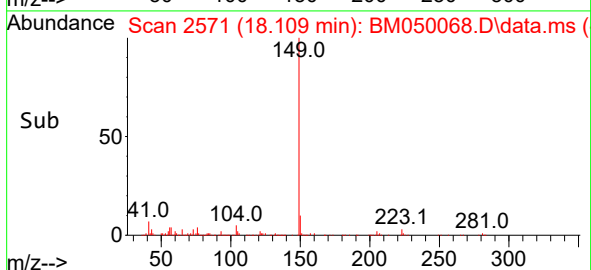
Reviewed By :Rahul Chavli 05/02/2025
 Supervised By :Jagrut Upadhyay 05/02/2025

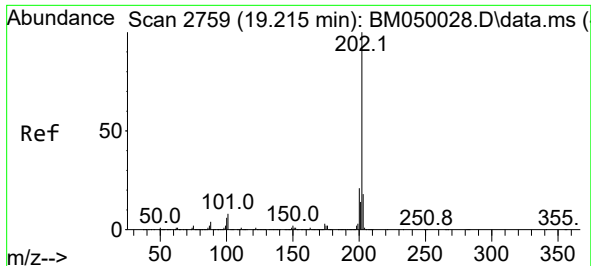


#74
 Di-n-butylphthalate
 Concen: 2.286 ng
 RT: 18.109 min Scan# 2571
 Delta R.T. -0.012 min
 Lab File: BM050068.D
 Acq: 01 May 2025 17:23



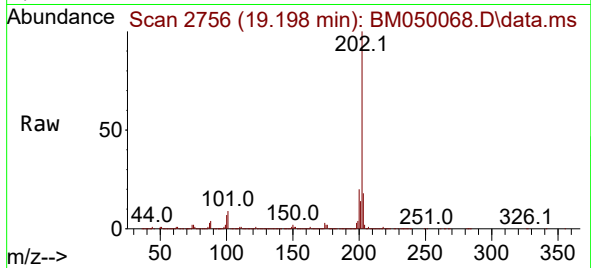
Tgt Ion:149 Resp: 141108
 Ion Ratio Lower Upper
 149 100
 150 10.0 7.3 10.9
 104 4.8 3.8 5.6





#75
Fluoranthene
Concen: 21.688 ng
RT: 19.198 min Scan# 21
Delta R.T. -0.018 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23

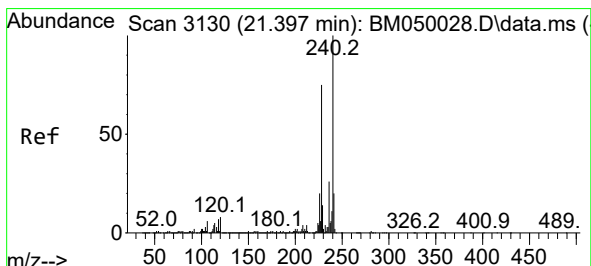
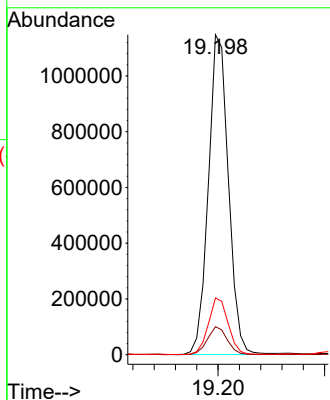
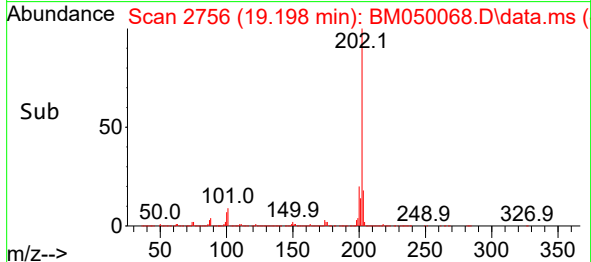
Instrument :
BNA_M
ClientSampleId :
MH-H



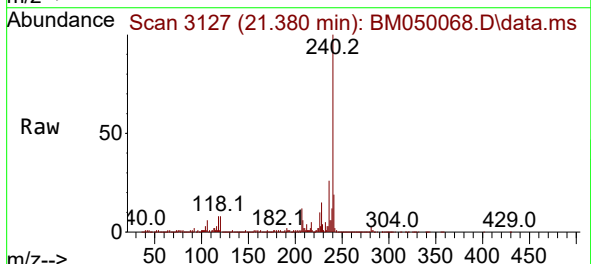
Tgt Ion:202 Resp: 150322
Ion Ratio Lower Upper
202 100
101 8.8 0.0 28.0
203 17.8 0.0 37.7

Manual Integrations
APPROVED

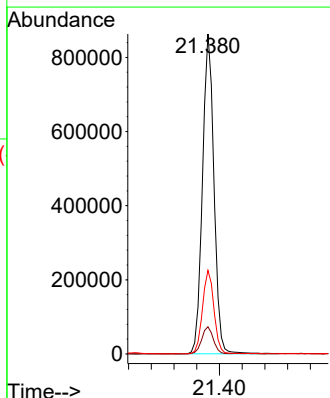
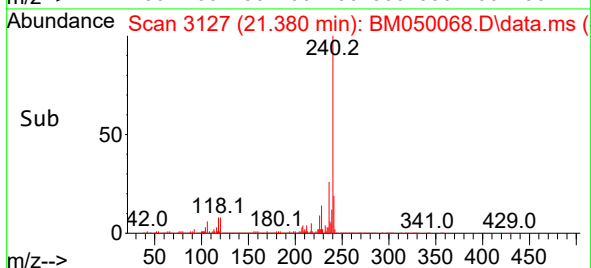
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

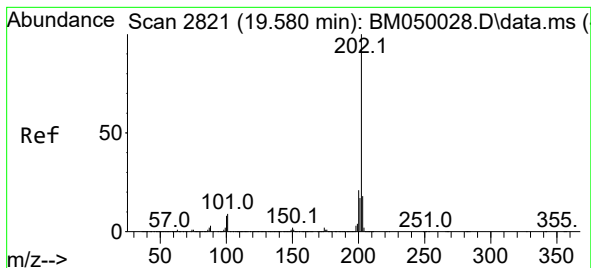


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.380 min Scan# 3127
Delta R.T. -0.017 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23



Tgt Ion:240 Resp: 1208181
Ion Ratio Lower Upper
240 100
120 8.5 6.5 9.7
236 26.1 20.9 31.3





#78

Pyrene

Concen: 18.395 ng

RT: 19.562 min Scan# 2818

Delta R.T. -0.018 min

Lab File: BM050068.D

Acq: 01 May 2025 17:23

Instrument :

BNA_M

ClientSampleId :

MH-H

Tgt Ion:202 Resp: 156070

Ion Ratio Lower Upper

202 100

200 21.4 16.7 25.1

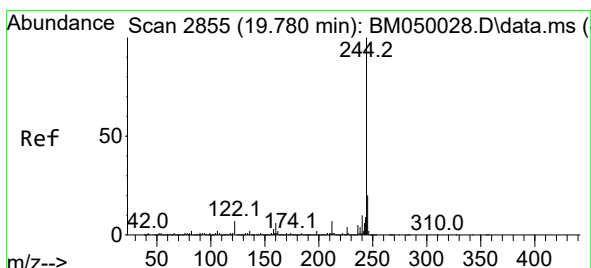
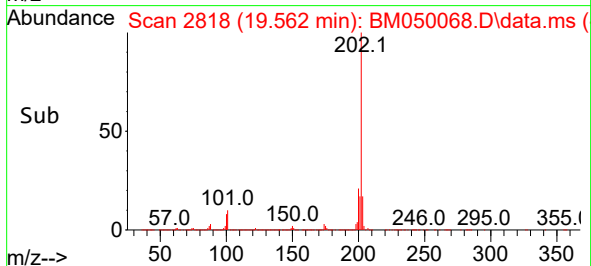
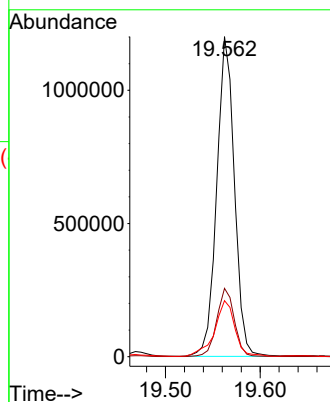
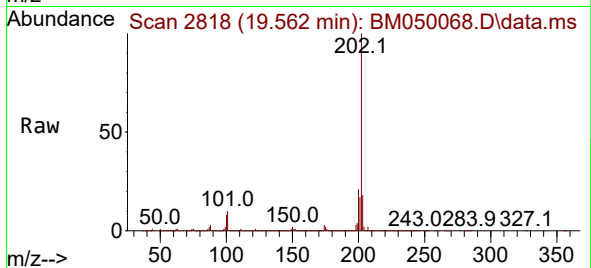
203 17.5 14.1 21.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/02/2025

Supervised By :Jagrut Upadhyay 05/02/2025



#79

Terphenyl-d14

Concen: 48.044 ng

RT: 19.768 min Scan# 2853

Delta R.T. -0.012 min

Lab File: BM050068.D

Acq: 01 May 2025 17:23

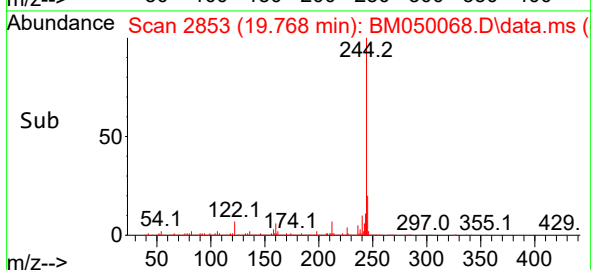
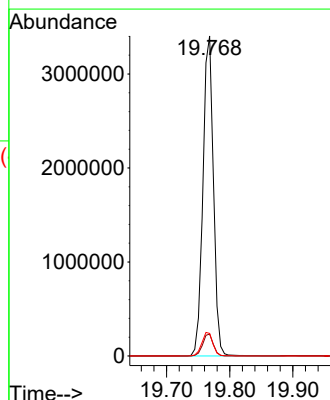
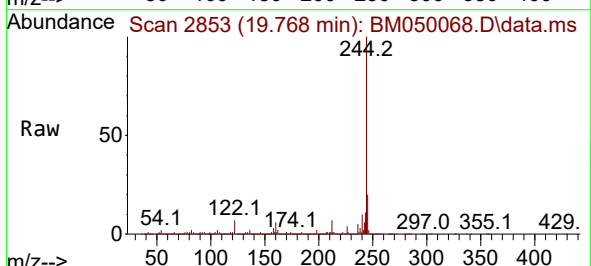
Tgt Ion:244 Resp: 3922716

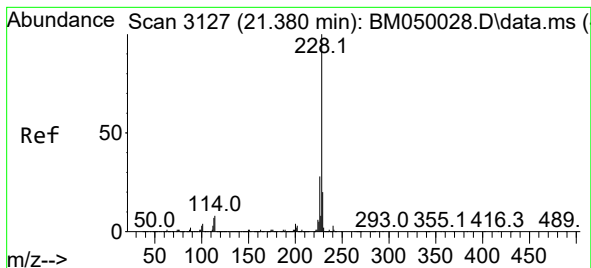
Ion Ratio Lower Upper

244 100

212 6.8 5.6 8.4

122 7.1 5.6 8.4





#81

Benzo(a)anthracene

Concen: 9.976 ng

RT: 21.362 min Scan# 3124

Delta R.T. -0.018 min

Lab File: BM050068.D

Acq: 01 May 2025 17:23

Instrument :

BNA_M

ClientSampleId :

MH-H

Tgt Ion:228 Resp: 82996

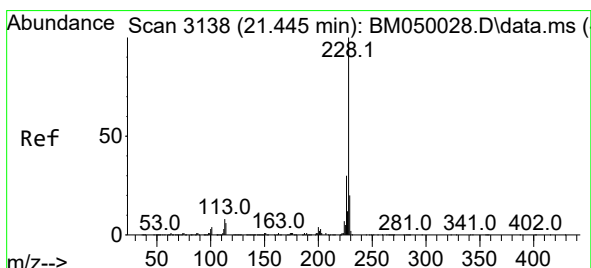
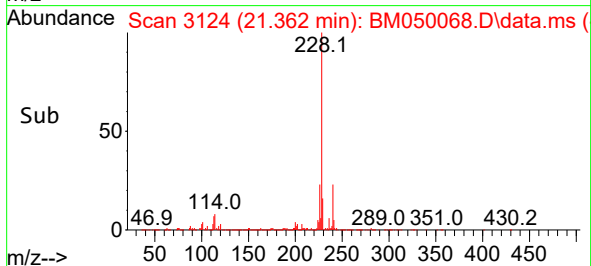
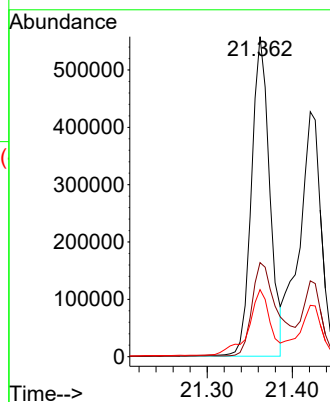
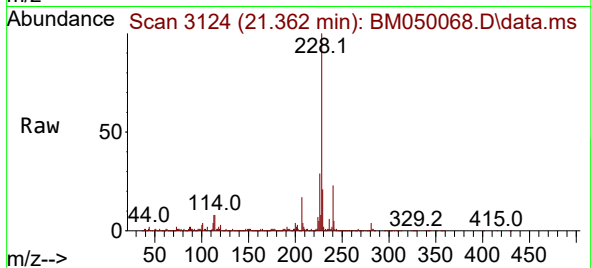
Ion	Ratio	Lower	Upper
228	100		
226	29.4	22.1	33.1
229	20.9	15.7	23.5

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/02/2025

Supervised By :Jagrut Upadhyay 05/02/2025



#83

Chrysene

Concen: 9.909 ng

RT: 21.421 min Scan# 3134

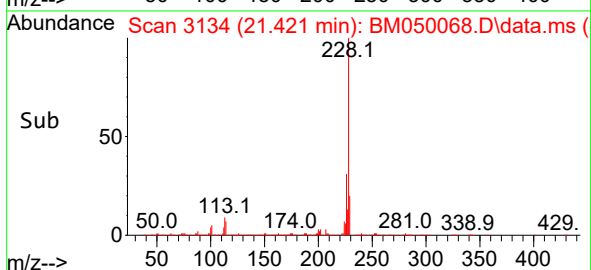
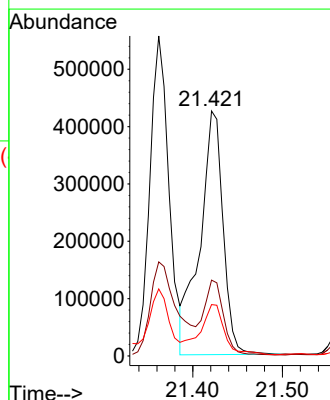
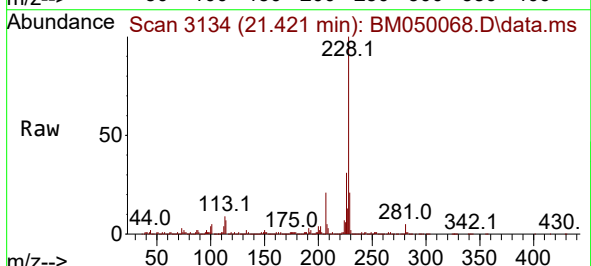
Delta R.T. -0.024 min

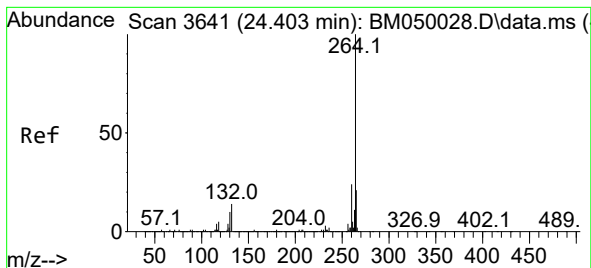
Lab File: BM050068.D

Acq: 01 May 2025 17:23

Tgt Ion:228 Resp: 762992

Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.2	36.2
229	20.9	15.7	23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.368 min Scan# 3

Delta R.T. -0.035 min

Lab File: BM050068.D

Acq: 01 May 2025 17:23

Instrument :

BNA_M

ClientSampleId :

MH-H

Tgt Ion:264 Resp: 1289580

Ion Ratio Lower Upper

264 100

260 23.9 18.8 28.2

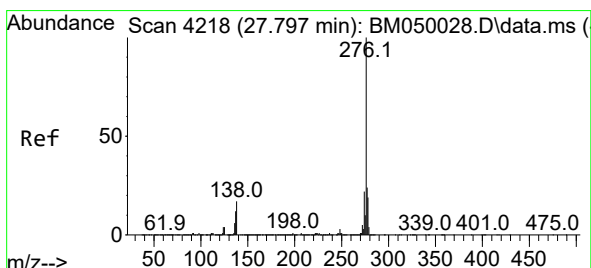
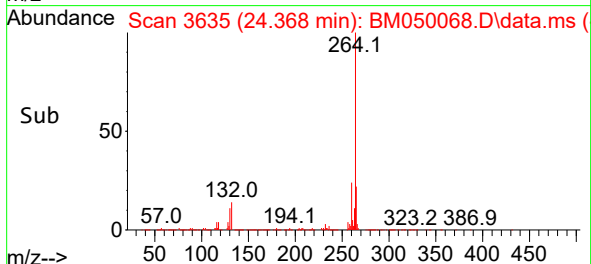
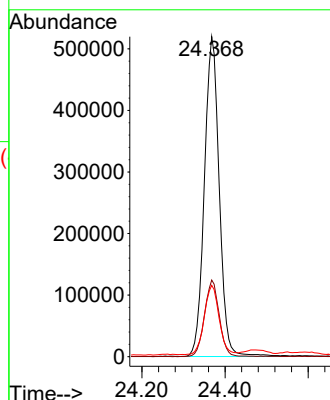
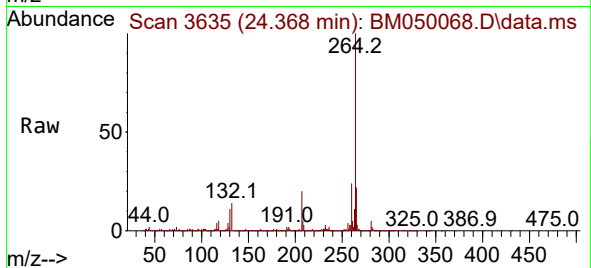
265 22.3 17.0 25.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/02/2025

Supervised By :Jagrut Upadhyay 05/02/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 7.556 ng

RT: 27.738 min Scan# 4208

Delta R.T. -0.059 min

Lab File: BM050068.D

Acq: 01 May 2025 17:23

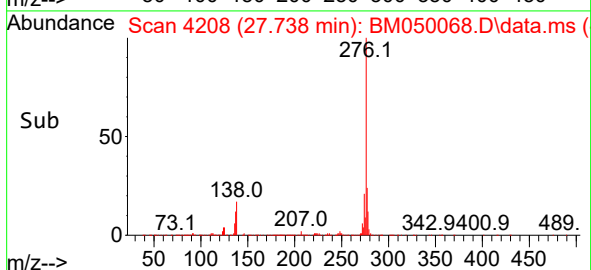
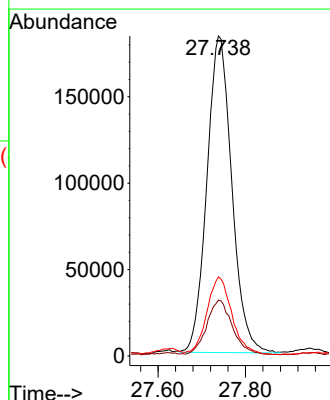
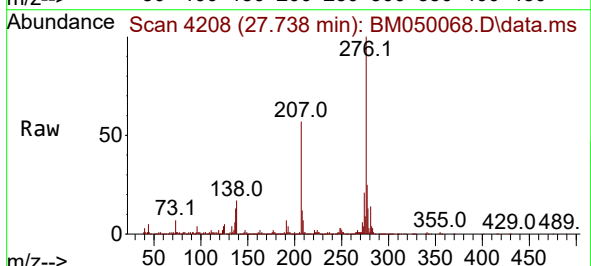
Tgt Ion:276 Resp: 726065

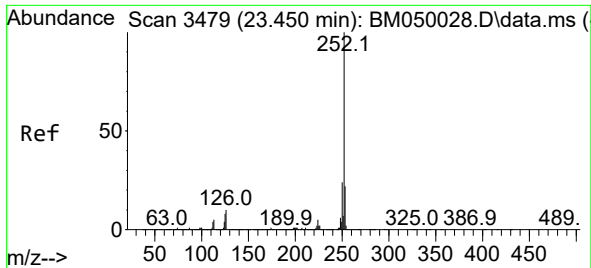
Ion Ratio Lower Upper

276 100

138 17.6 16.4 24.6

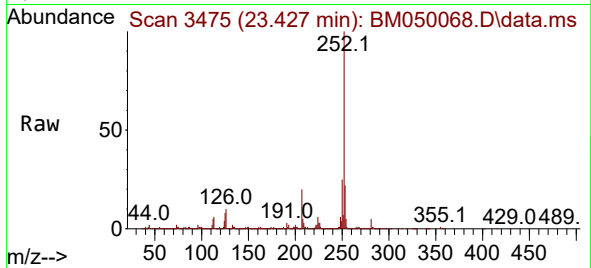
277 24.8 19.8 29.8





#88
Benzo(b)fluoranthene
Concen: 16.505 ng
RT: 23.427 min Scan# 3475
Delta R.T. -0.024 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23

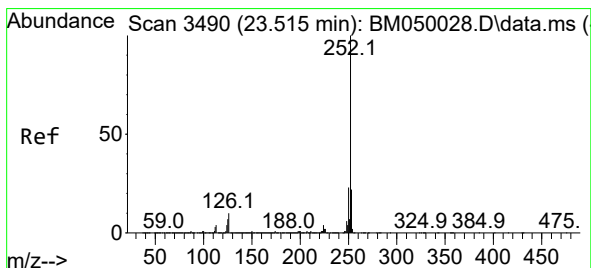
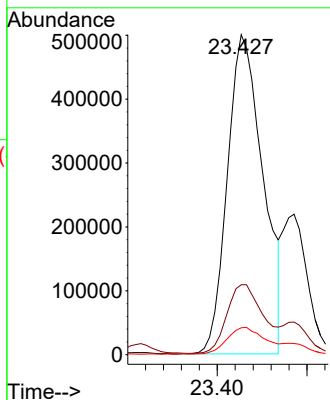
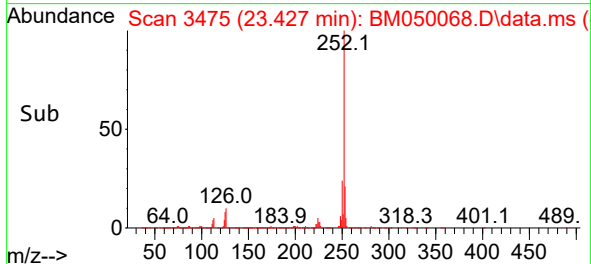
Instrument :
BNA_M
ClientSampleId :
MH-H



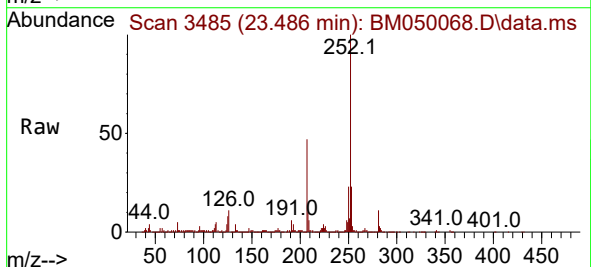
Tgt Ion:252 Resp: 1384224
Ion Ratio Lower Upper
252 100
253 21.8 17.7 26.5
125 8.4 6.1 9.1

Manual Integrations
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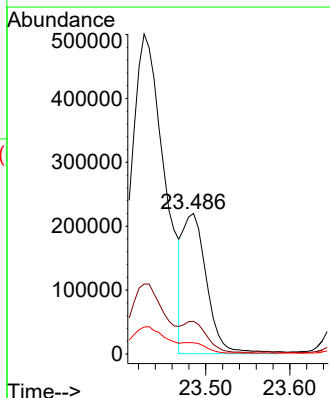
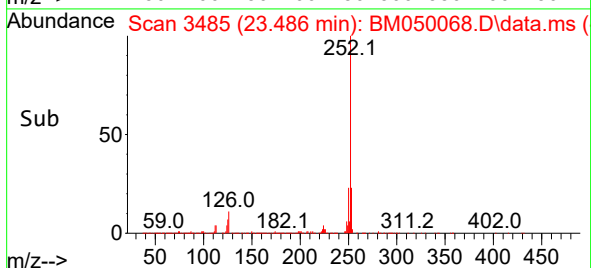
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

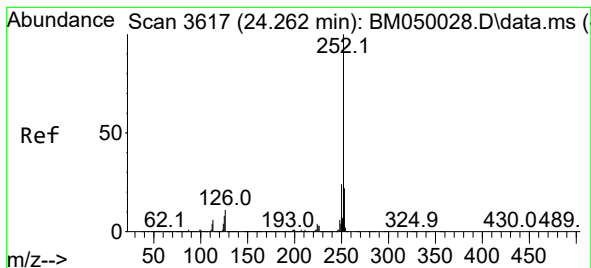


#89
Benzo(k)fluoranthene
Concen: 5.074 ng m
RT: 23.486 min Scan# 3485
Delta R.T. -0.029 min
Lab File: BM050068.D
Acq: 01 May 2025 17:23



Tgt Ion:252 Resp: 430431
Ion Ratio Lower Upper
252 100
253 23.3 17.4 26.2
125 8.0 5.8 8.8





#90

Benzo(a)pyrene

Concen: 12.582 ng

RT: 24.227 min Scan# 30

Delta R.T. -0.035 min

Lab File: BM050068.D

Acq: 01 May 2025 17:23

Instrument :

BNA_M

ClientSampleId :

MH-H

Tgt Ion:252 Resp: 98833

Ion Ratio Lower Upper

252 100

253 22.0 17.4 26.0

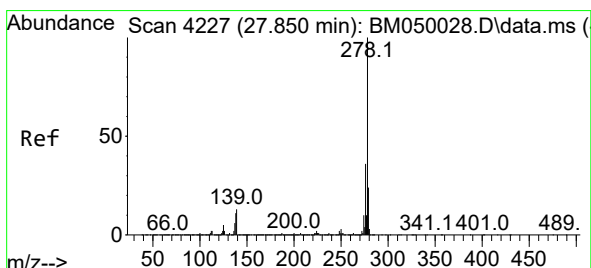
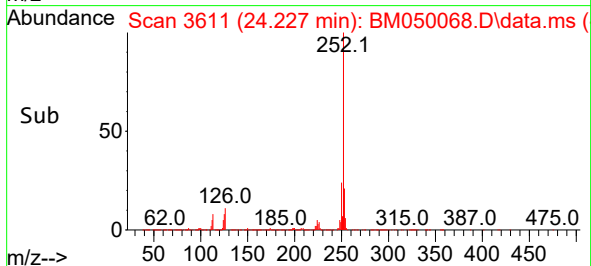
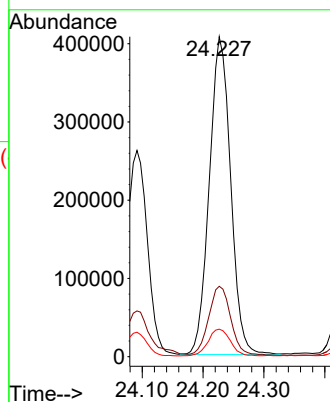
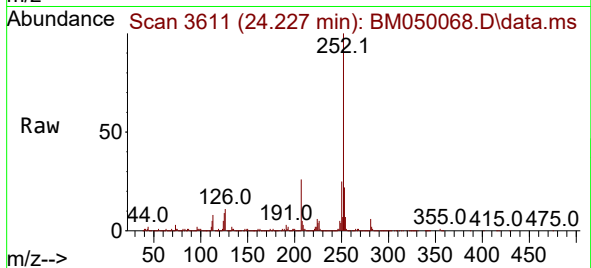
125 8.6 6.6 9.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/02/2025

Supervised By :Jagrut Upadhyay 05/02/2025



#91

Dibenzo(a,h)anthracene

Concen: 2.337 ng

RT: 27.785 min Scan# 4216

Delta R.T. -0.065 min

Lab File: BM050068.D

Acq: 01 May 2025 17:23

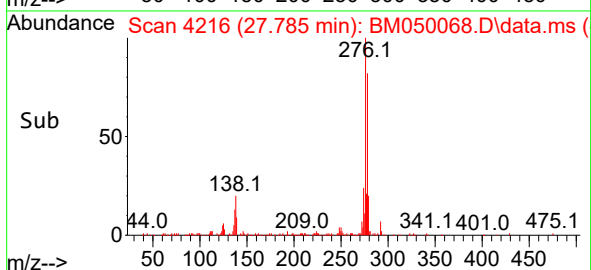
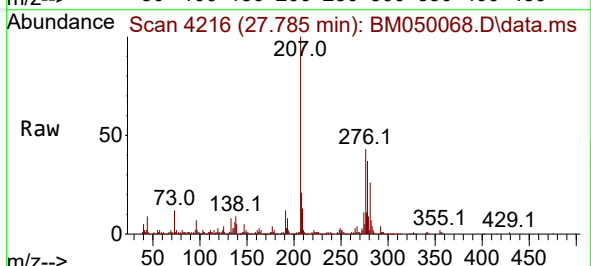
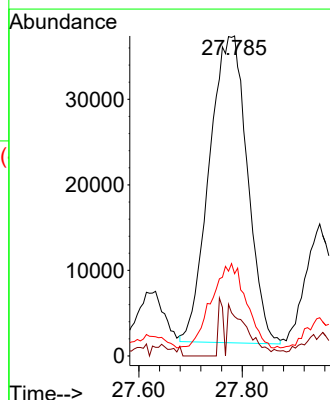
Tgt Ion:278 Resp: 183030

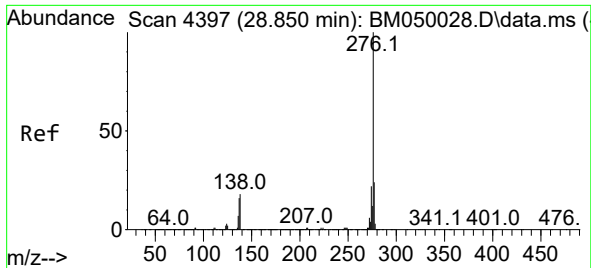
Ion Ratio Lower Upper

278 100

139 12.3 10.5 15.7

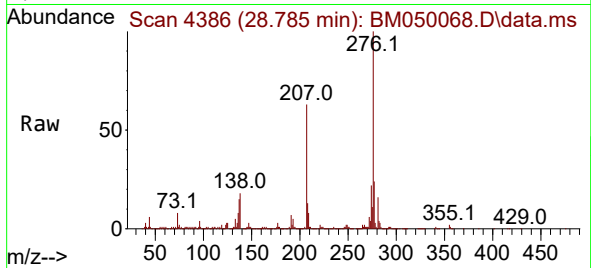
279 25.7 19.4 29.0





#92
 Benzo(g,h,i)perylene
 Concen: 9.640 ng
 RT: 28.785 min Scan# 4397
 Delta R.T. -0.065 min
 Lab File: BM050068.D
 Acq: 01 May 2025 17:23

Instrument :
 BNA_M
 ClientSampleId :
 MH-H



Tgt Ion: 276 Resp: 722878
 Ion Ratio Lower Upper
 276 100
 277 23.8 19.1 28.7
 138 18.1 14.3 21.5

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/02/2025
 Supervised By :Jagrut Upadhyay 05/02/2025

