

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041625\
 Data File : BM049955.D
 Acq On : 16 Apr 2025 16:44
 Operator : RC/JU
 Sample : Q1788-01DL 10X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 WC-1DL

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 04/17/2025
 Supervised By :Jagrut Upadhyay 04/17/2025

Quant Time: Apr 16 17:23:38 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 09 04:00:55 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.769	152	388773	20.000	ng	-0.01
21) Naphthalene-d8	10.562	136	1318643	20.000	ng	-0.01
39) Acenaphthene-d10	14.415	164	849483	20.000	ng	0.00
64) Phenanthrene-d10	17.156	188	1659177	20.000	ng	0.00
76) Chrysene-d12	21.397	240	1649717	20.000	ng	0.00
86) Perylene-d12	24.403	264	1790029	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.357	112	186744	8.157	ng	0.00
7) Phenol-d6	6.951	99	213789	7.505	ng	0.00
23) Nitrobenzene-d5	8.927	82	125938	5.318	ng	0.00
42) 2,4,6-Tribromophenol	15.909	330	89861	7.273	ng	0.00
45) 2-Fluorobiphenyl	13.033	172	335639	5.358	ng	-0.01
79) Terphenyl-d14	19.779	244	428349	4.866	ng	-0.01
Target Compounds						Qvalue
71) Phenanthrene	17.197	178	1842324	20.254	ng	99
72) Anthracene	17.291	178	547720	6.110	ng	99
73) Carbazole	17.562	167	170505	2.019	ng	98
75) Fluoranthene	19.221	202	4115880	36.801	ng	99
78) Pyrene	19.580	202	3546784	31.195	ng	99
81) Benzo(a)anthracene	21.379	228	1869267	17.049	ng	99
83) Chrysene	21.438	228	1567451m	15.038	ng	
87) Indeno(1,2,3-cd)pyrene	27.779	276	926545	6.944	ng	97
88) Benzo(b)fluoranthene	23.456	252	1949958	17.057	ng	97
89) Benzo(k)fluoranthene	23.509	252	742238m	6.700	ng	
90) Benzo(a)pyrene	24.256	252	1455391	14.487	ng	99
91) Dibenzo(a,h)anthracene	27.814	278	240165m	2.185	ng	
92) Benzo(g,h,i)perylene	28.832	276	860593	7.663	ng	99

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

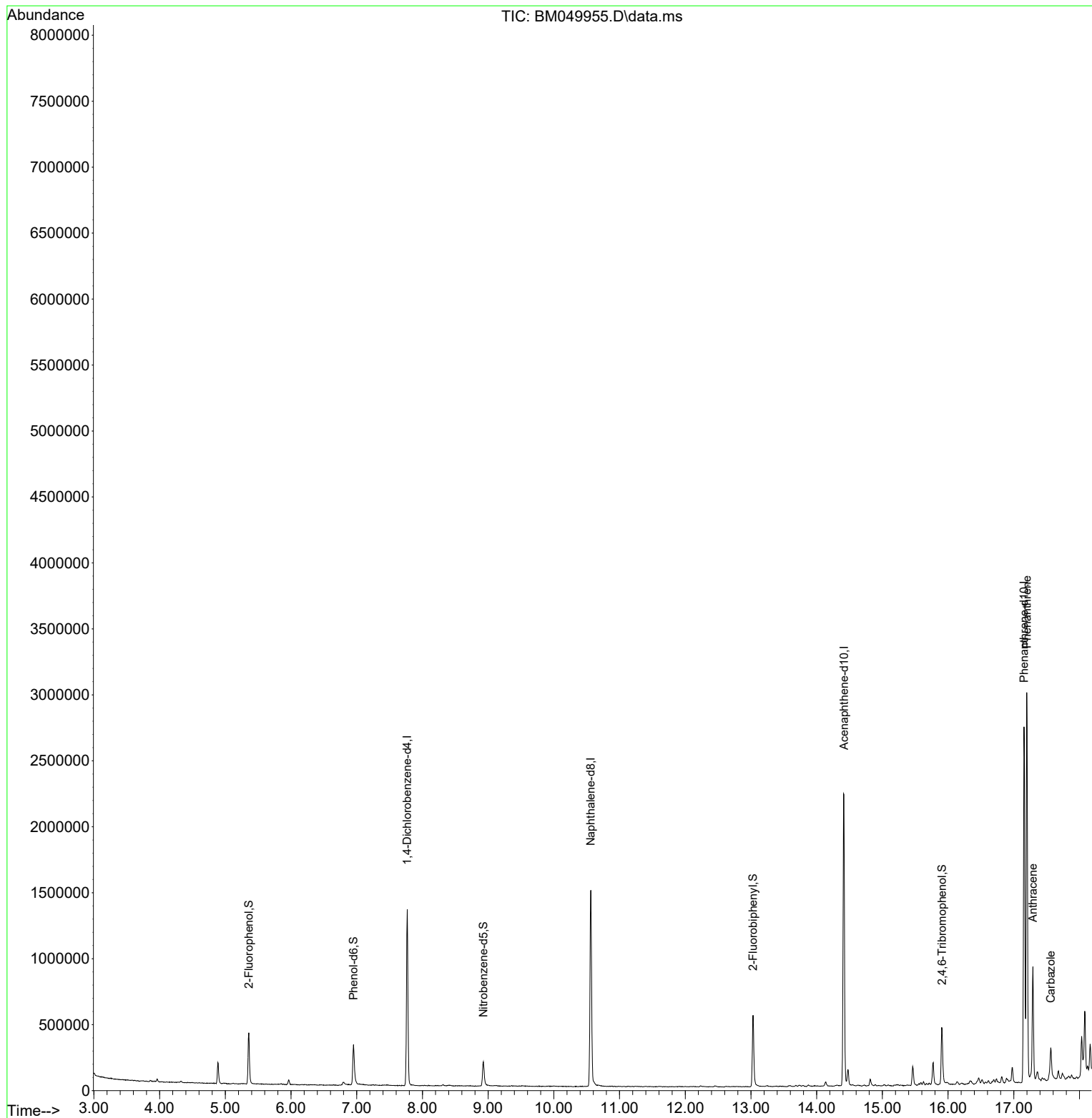
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041625\
Data File : BM049955.D
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
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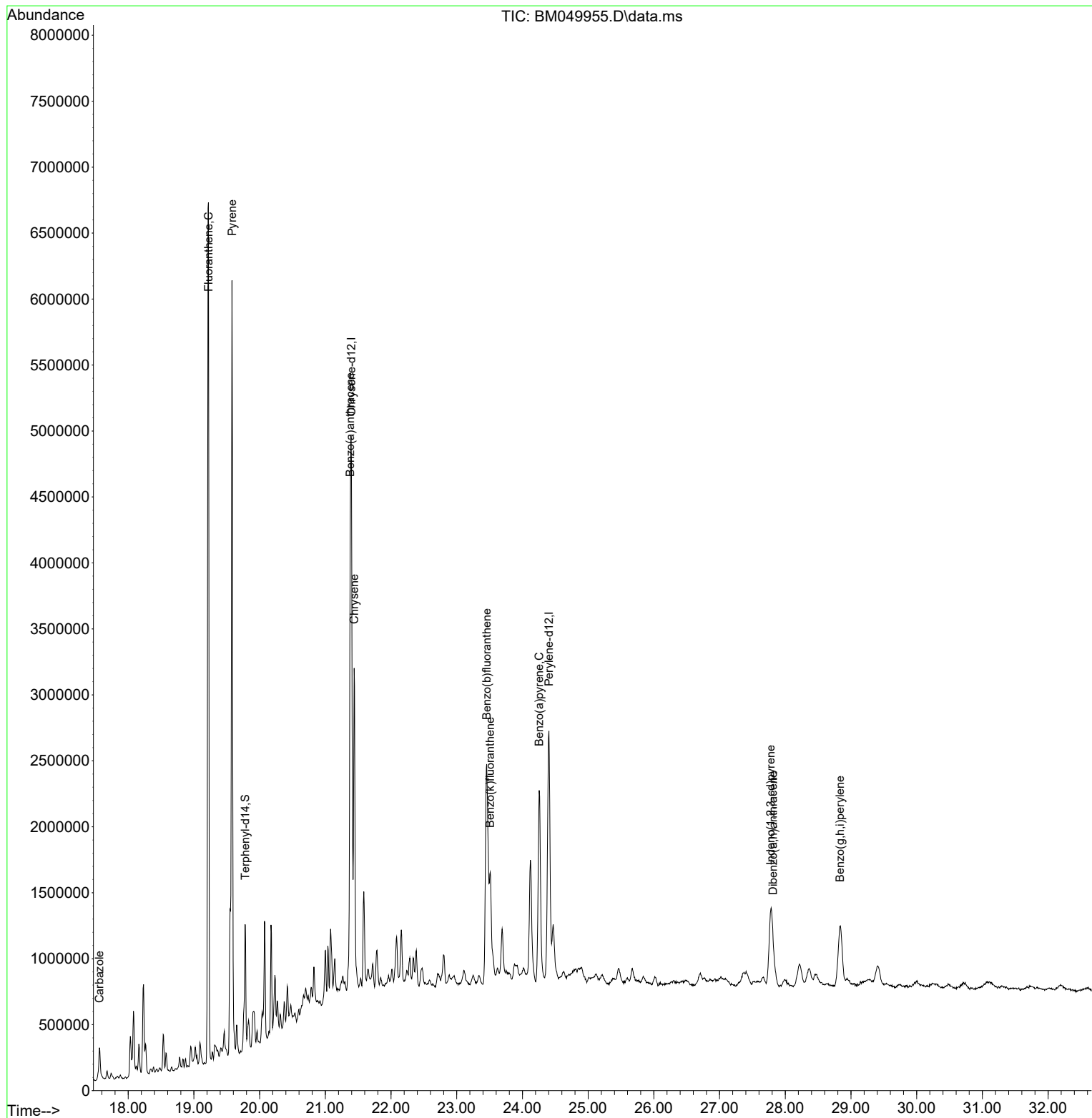
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Data File : BM049955.D
Acq On : 16 Apr 2025 16:44
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Sample : Q1788-01DL 10X
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Instrument :
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Quant Time: Apr 16 17:23:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
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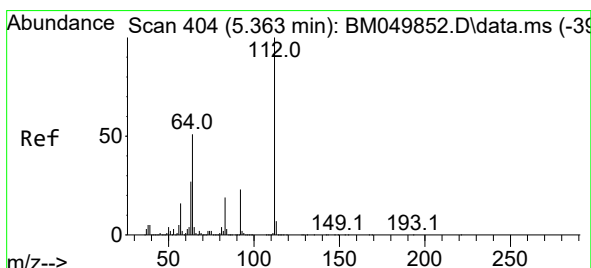
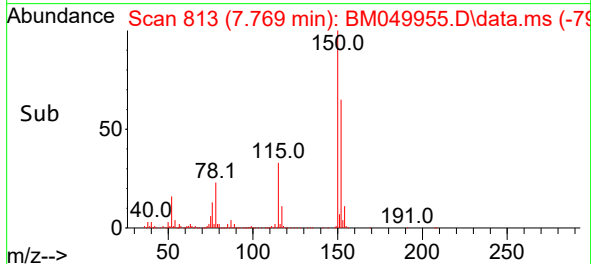
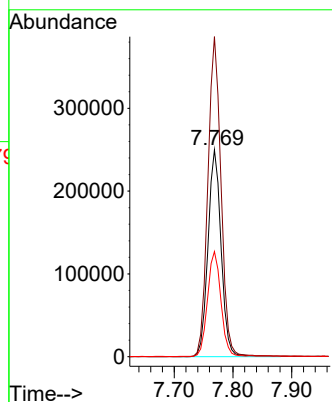
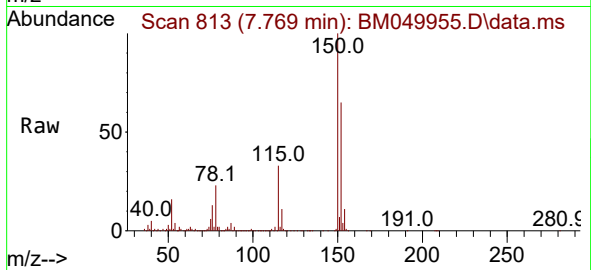
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.769 min Scan# 815
Delta R.T. -0.012 min
Lab File: BM049955.D
Acq: 16 Apr 2025 16:44

Instrument :
BNA_M
ClientSampleId :
WC-1DL

Tgt Ion:152 Resp: 38877
Ion Ratio Lower Upper
152 100
150 154.7 124.3 186.5
115 50.8 41.1 61.7

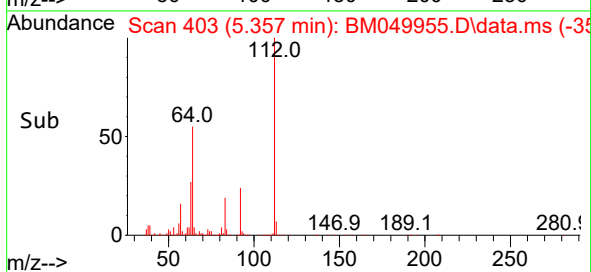
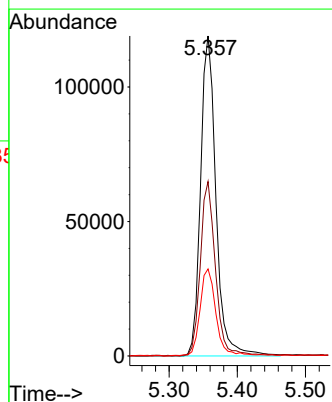
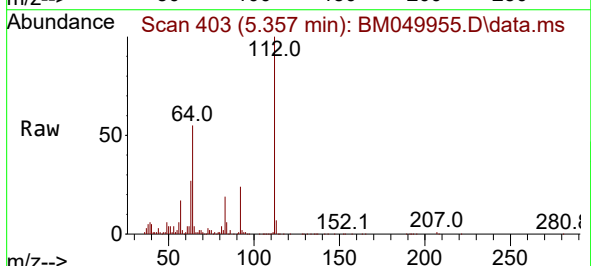
Manual Integrations
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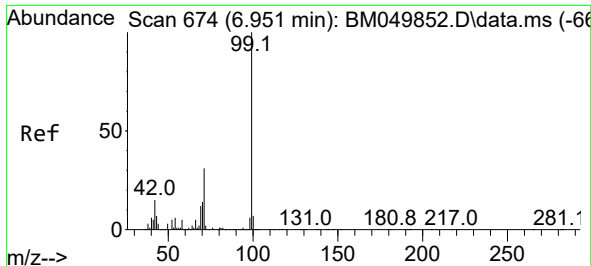
Reviewed By :Rahul Chavli 04/17/2025
Supervised By :Jagrut Upadhyay 04/17/2025



#5
2-Fluorophenol
Concen: 8.157 ng
RT: 5.357 min Scan# 403
Delta R.T. -0.006 min
Lab File: BM049955.D
Acq: 16 Apr 2025 16:44

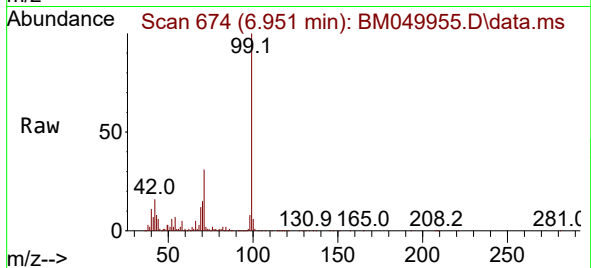
Tgt Ion:112 Resp: 186744
Ion Ratio Lower Upper
112 100
64 54.5 41.0 61.6
63 27.2 21.5 32.3





#7
Phenol-d6
Concen: 7.505 ng
RT: 6.951 min Scan# 61
Delta R.T. -0.000 min
Lab File: BM049955.D
Acq: 16 Apr 2025 16:44

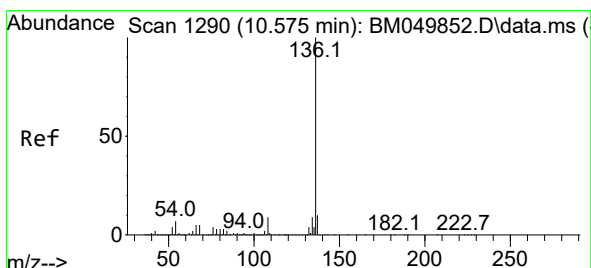
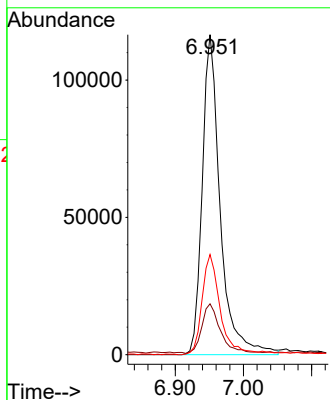
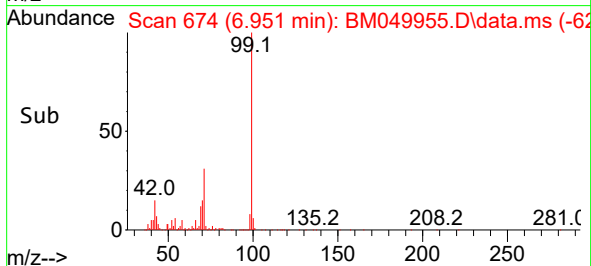
Instrument :
BNA_M
ClientSampleId :
WC-1DL



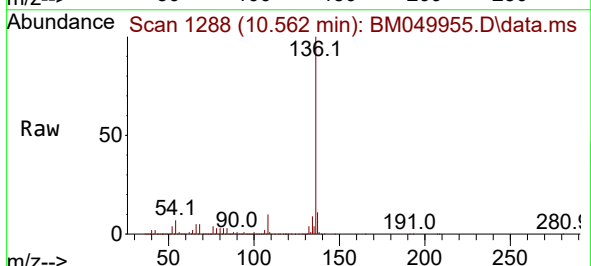
Tgt Ion: 99 Resp: 213789
Ion Ratio Lower Upper
99 100
42 15.9 12.1 18.1
71 31.3 24.9 37.3

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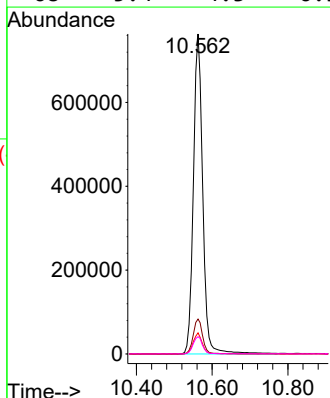
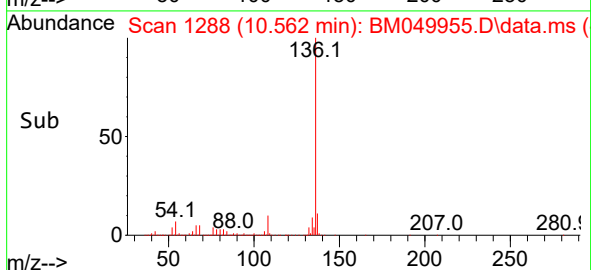
Reviewed By :Rahul Chavli 04/17/2025
Supervised By :Jagrut Upadhyay 04/17/2025

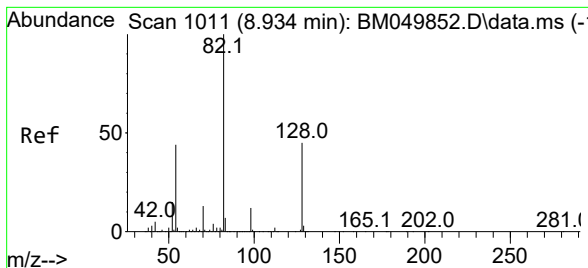


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.562 min Scan# 1288
Delta R.T. -0.012 min
Lab File: BM049955.D
Acq: 16 Apr 2025 16:44



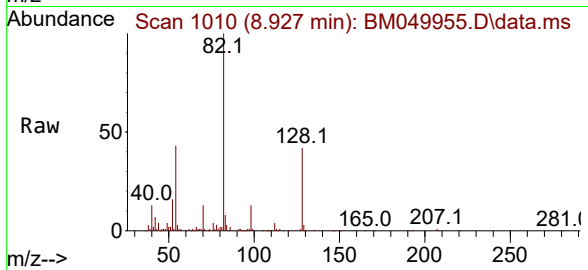
Tgt Ion:136 Resp: 1318643
Ion Ratio Lower Upper
136 100
137 10.9 8.4 12.6
54 6.6 5.3 7.9
68 5.4 4.3 6.5





#23
Nitrobenzene-d5
Concen: 5.318 ng
RT: 8.927 min Scan# 1010
Delta R.T. -0.006 min
Lab File: BM049955.D
Acq: 16 Apr 2025 16:44

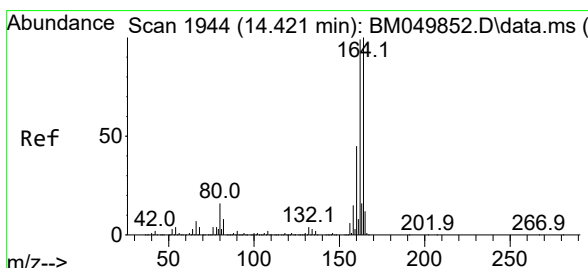
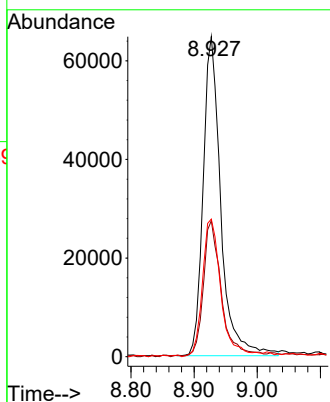
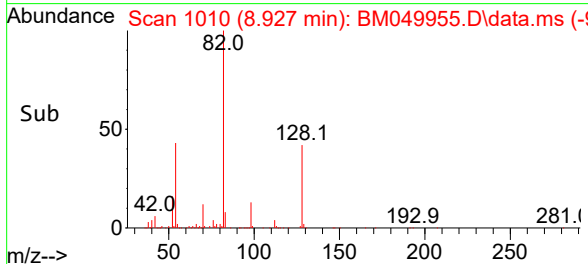
Instrument :
BNA_M
ClientSampleId :
WC-1DL



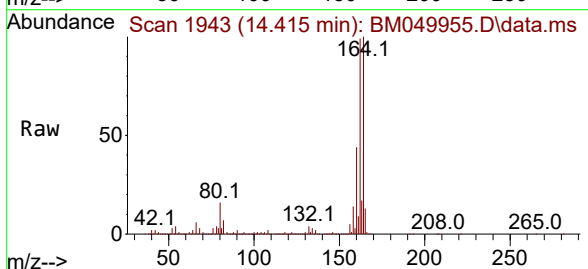
Tgt Ion: 82 Resp: 125938
Ion Ratio Lower Upper
82 100
128 42.5 36.2 54.2
54 43.0 35.0 52.6

Manual Integrations
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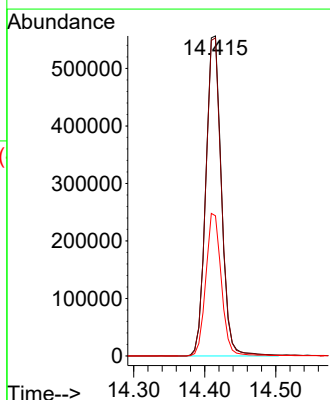
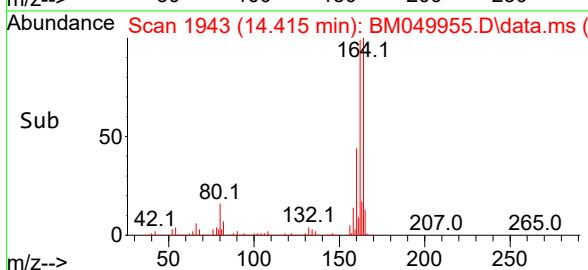
Reviewed By :Rahul Chavli 04/17/2025
Supervised By :Jagrut Upadhyay 04/17/2025

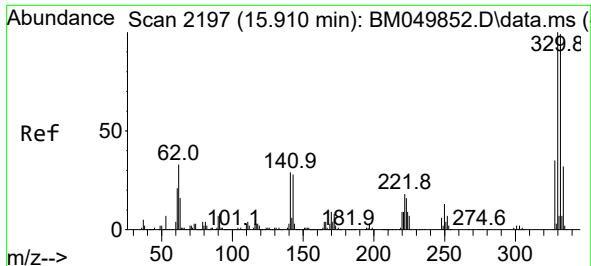


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.415 min Scan# 1943
Delta R.T. -0.006 min
Lab File: BM049955.D
Acq: 16 Apr 2025 16:44



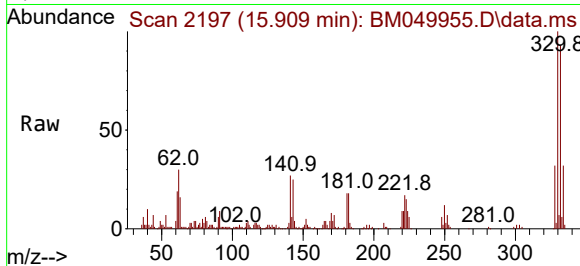
Tgt Ion:164 Resp: 849483
Ion Ratio Lower Upper
164 100
162 99.4 79.4 119.0
160 43.8 36.2 54.2





#42
2,4,6-Tribromophenol
Concen: 7.273 ng
RT: 15.909 min Scan# 2197
Delta R.T. -0.000 min
Lab File: BM049955.D
Acq: 16 Apr 2025 16:44

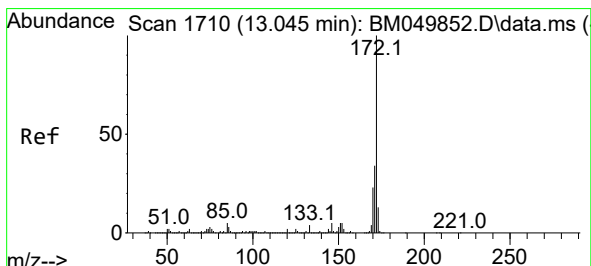
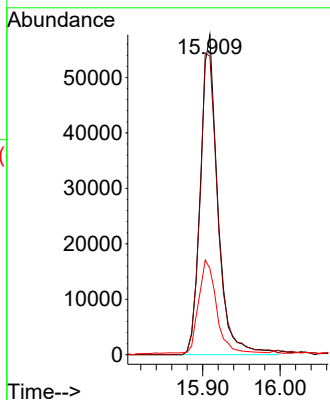
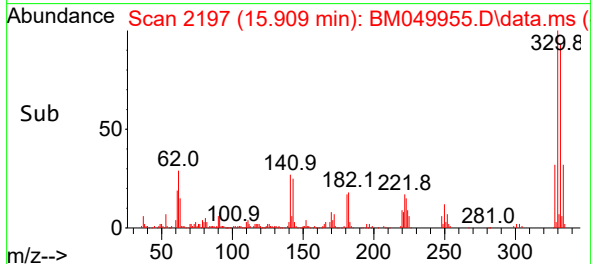
Instrument :
BNA_M
ClientSampleId :
WC-1DL



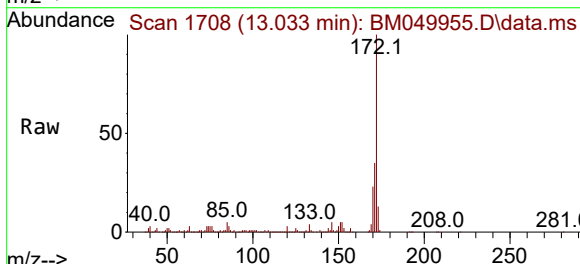
Tgt Ion:330 Resp: 8986
Ion Ratio Lower Upper
330 100
332 99.1 78.0 117.0
141 30.1 23.5 35.3

Manual Integrations
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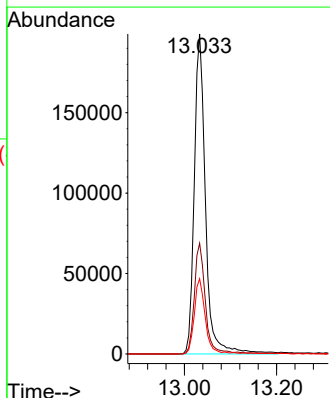
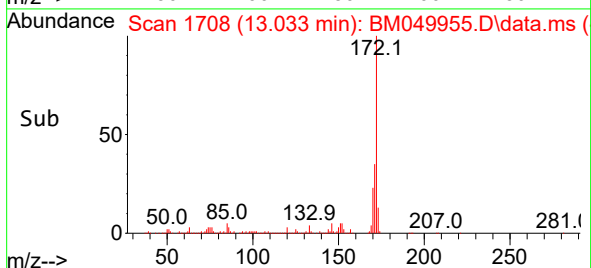
Reviewed By :Rahul Chavli 04/17/2025
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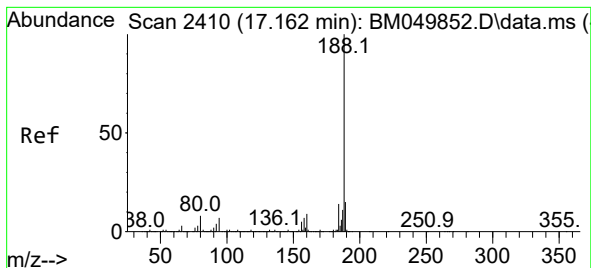


#45
2-Fluorobiphenyl
Concen: 5.358 ng
RT: 13.033 min Scan# 1708
Delta R.T. -0.012 min
Lab File: BM049955.D
Acq: 16 Apr 2025 16:44



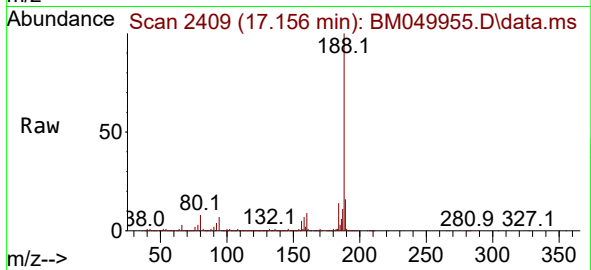
Tgt Ion:172 Resp: 335639
Ion Ratio Lower Upper
172 100
171 34.6 27.4 41.2
170 23.5 18.6 28.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.156 min Scan# 2410
Delta R.T. -0.006 min
Lab File: BM049955.D
Acq: 16 Apr 2025 16:44

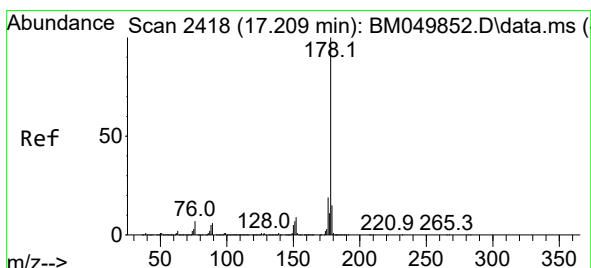
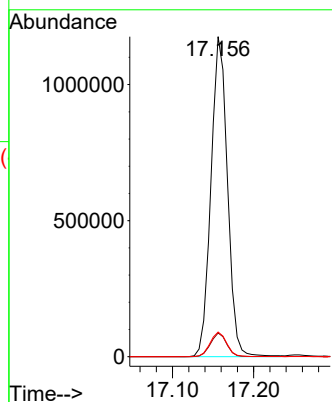
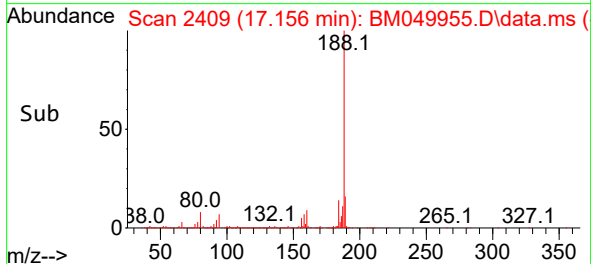
Instrument :
BNA_M
ClientSampleId :
WC-1DL



Tgt Ion:188 Resp: 165917
Ion Ratio Lower Upper
188 100
94 7.4 5.8 8.6
80 7.7 6.4 9.6

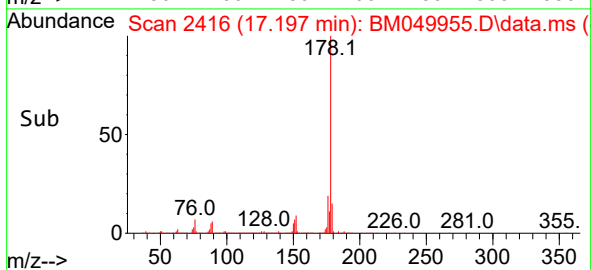
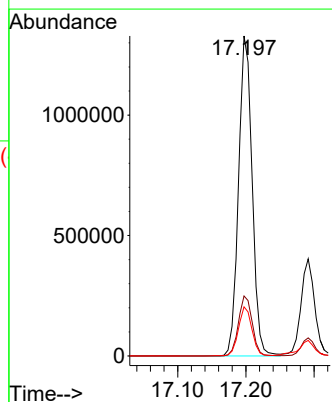
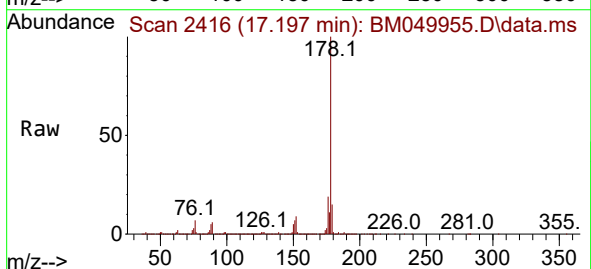
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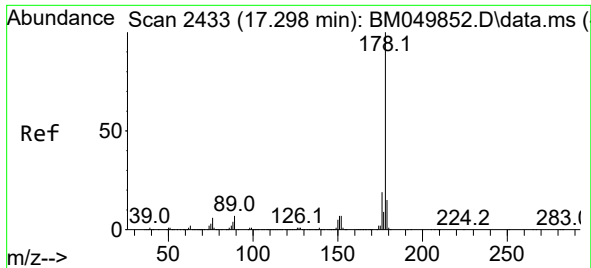
Reviewed By :Rahul Chavli 04/17/2025
Supervised By :Jagrut Upadhyay 04/17/2025



#71
Phenanthrene
Concen: 20.254 ng
RT: 17.197 min Scan# 2416
Delta R.T. -0.012 min
Lab File: BM049955.D
Acq: 16 Apr 2025 16:44

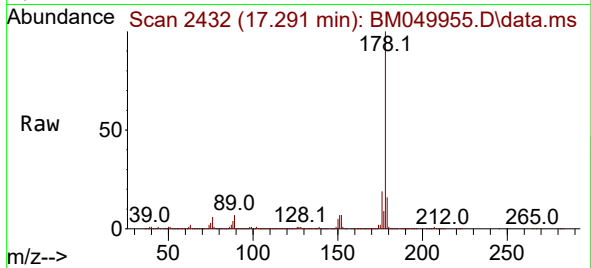
Tgt Ion:178 Resp: 1842324
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.2
179 15.3 12.3 18.5





#72
 Anthracene
 Concen: 6.110 ng
 RT: 17.291 min Scan# 2433
 Delta R.T. -0.006 min
 Lab File: BM049955.D
 Acq: 16 Apr 2025 16:44

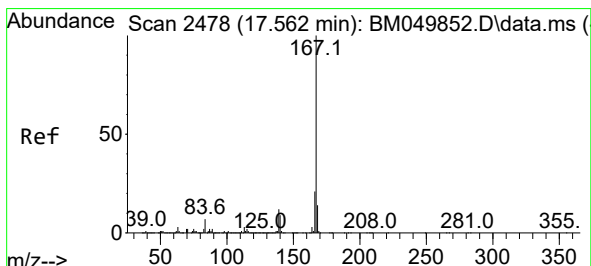
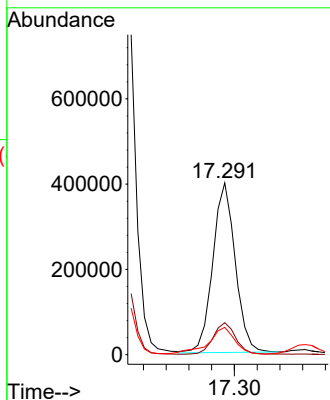
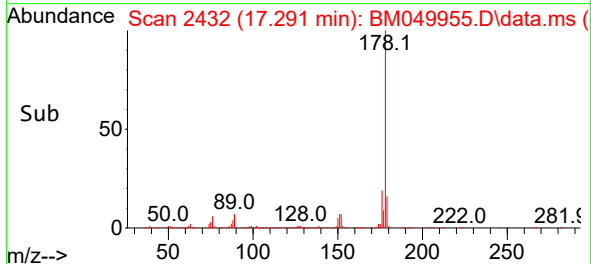
Instrument :
 BNA_M
 ClientSampleId :
 WC-1DL



Tgt Ion:178 Resp: 547720
 Ion Ratio Lower Upper
 178 100
 176 18.6 15.1 22.7
 179 15.9 12.4 18.6

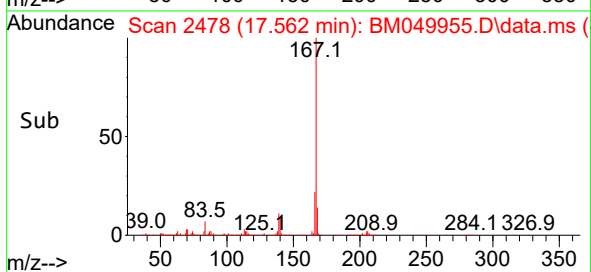
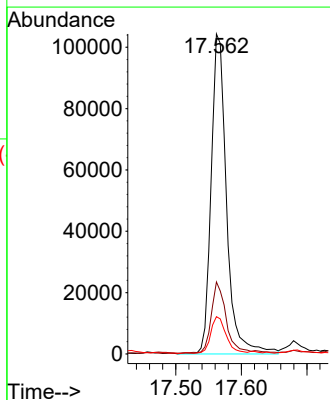
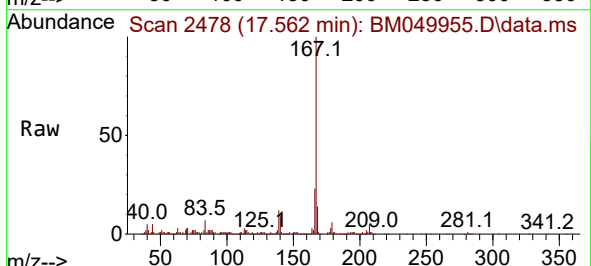
Manual Integrations
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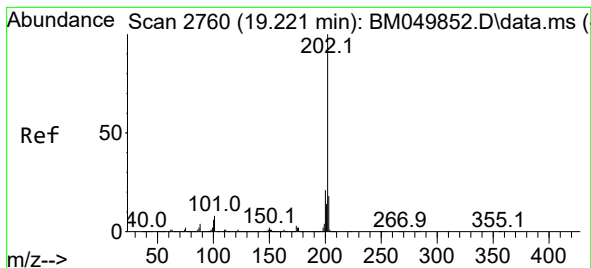
Reviewed By :Rahul Chavli 04/17/2025
 Supervised By :Jagrut Upadhyay 04/17/2025



#73
 Carbazole
 Concen: 2.019 ng
 RT: 17.562 min Scan# 2478
 Delta R.T. -0.000 min
 Lab File: BM049955.D
 Acq: 16 Apr 2025 16:44

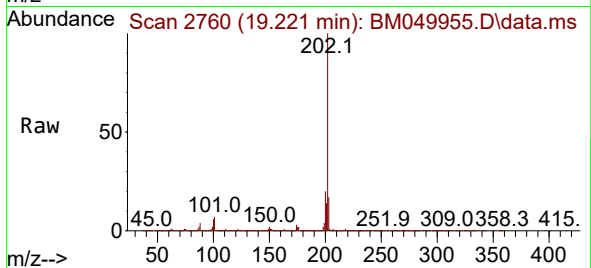
Tgt Ion:167 Resp: 170505
 Ion Ratio Lower Upper
 167 100
 166 22.5 16.9 25.3
 139 11.6 9.3 13.9





#75
Fluoranthene
Concen: 36.801 ng
RT: 19.221 min Scan# 21
Delta R.T. -0.000 min
Lab File: BM049955.D
Acq: 16 Apr 2025 16:44

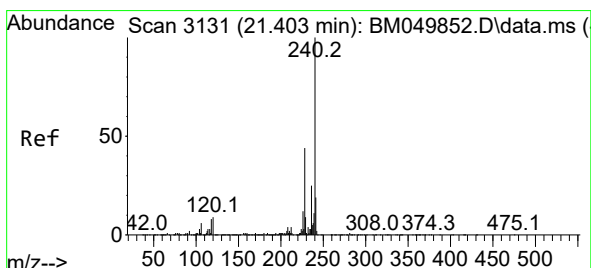
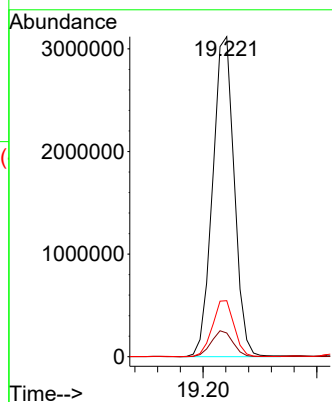
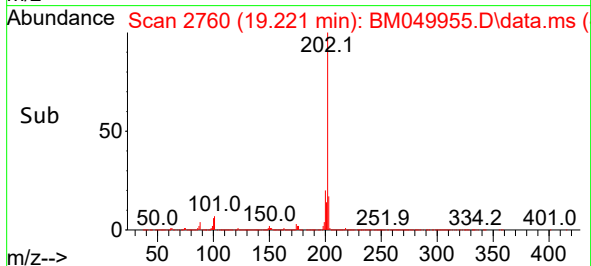
Instrument :
BNA_M
ClientSampleId :
WC-1DL



Tgt Ion:202 Resp: 4115880
Ion Ratio Lower Upper
202 100
101 7.4 0.0 28.4
203 17.5 0.0 37.8

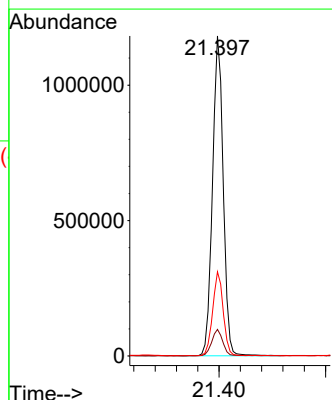
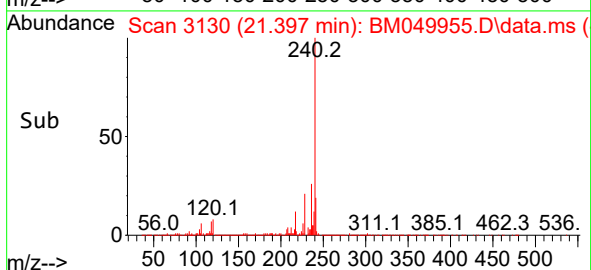
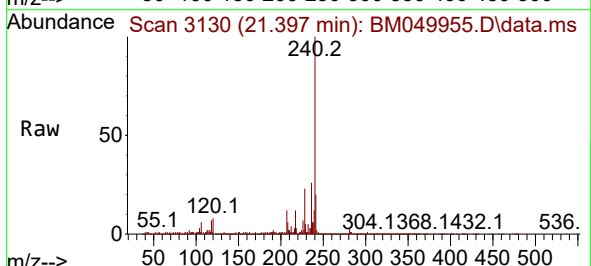
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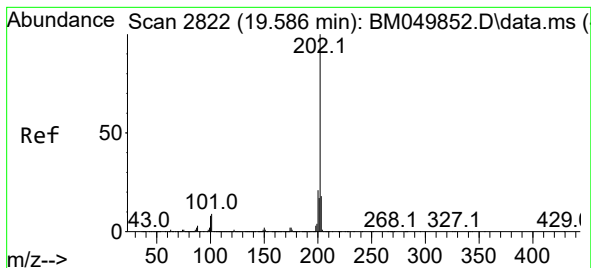
Reviewed By :Rahul Chavli 04/17/2025
Supervised By :Jagrut Upadhyay 04/17/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.397 min Scan# 3130
Delta R.T. -0.006 min
Lab File: BM049955.D
Acq: 16 Apr 2025 16:44

Tgt Ion:240 Resp: 1649717
Ion Ratio Lower Upper
240 100
120 8.3 6.9 10.3
236 26.3 20.4 30.6





#78

Pyrene

Concen: 31.195 ng

RT: 19.580 min Scan# 2822

Delta R.T. -0.006 min

Lab File: BM049955.D

Acq: 16 Apr 2025 16:44

Instrument :

BNA_M

ClientSampleId :

WC-1DL

Tgt Ion:202 Resp: 3546784

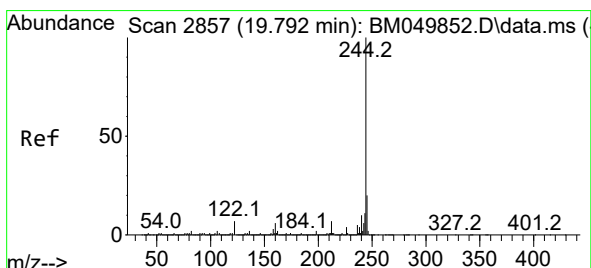
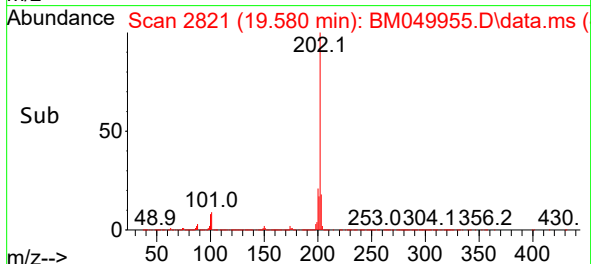
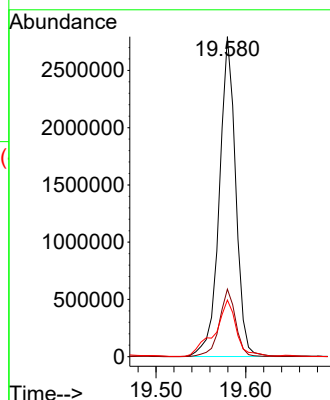
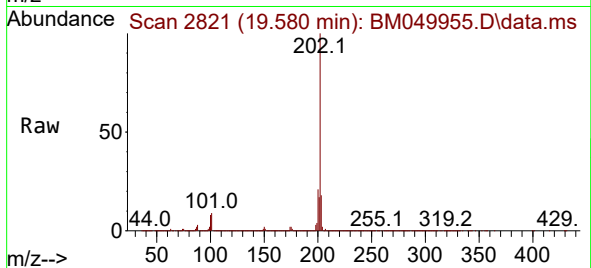
Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.5	24.7
203	17.7	14.0	21.0

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Reviewed By :Rahul Chavli 04/17/2025

Supervised By :Jagrut Upadhyay 04/17/2025



#79

Terphenyl-d14

Concen: 4.866 ng

RT: 19.779 min Scan# 2855

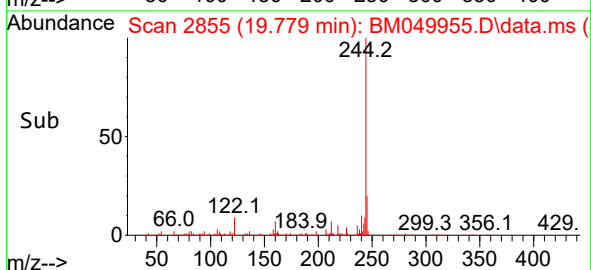
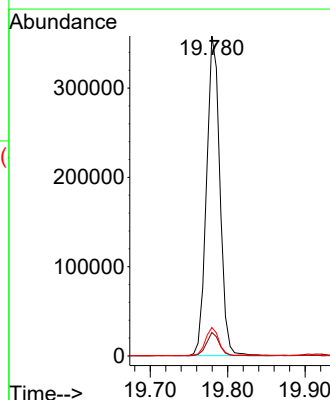
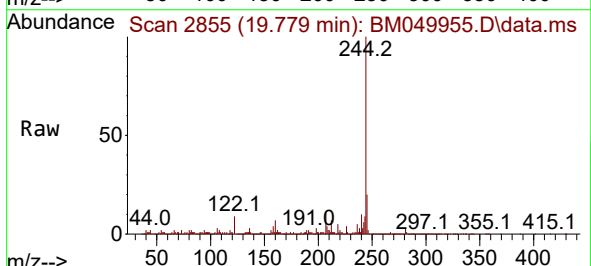
Delta R.T. -0.012 min

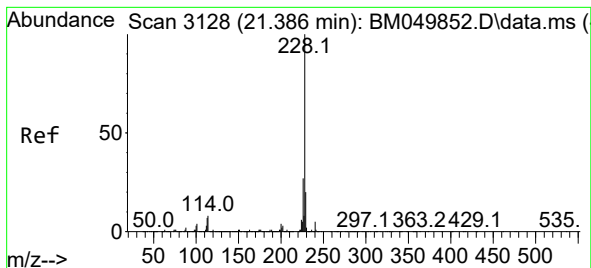
Lab File: BM049955.D

Acq: 16 Apr 2025 16:44

Tgt Ion:244 Resp: 428349

Ion	Ratio	Lower	Upper
244	100		
212	7.4	5.5	8.3
122	8.9	5.4	8.0





#81

Benzo(a)anthracene

Concen: 17.049 ng

RT: 21.379 min Scan# 3127

Delta R.T. -0.006 min

Lab File: BM049955.D

Acq: 16 Apr 2025 16:44

Instrument :

BNA_M

ClientSampleId :

WC-1DL

Tgt Ion:228 Resp: 186926

Ion Ratio Lower Upper

228 100

226 27.6 21.8 32.8

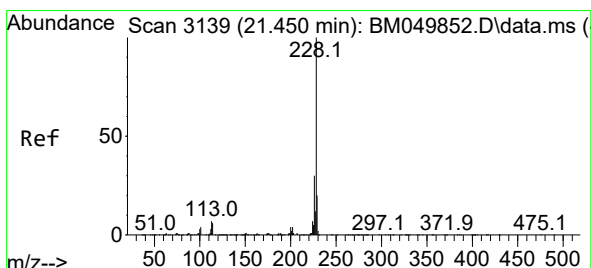
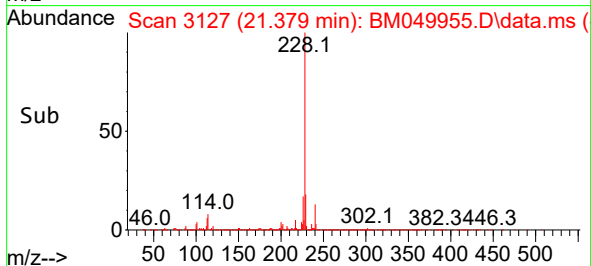
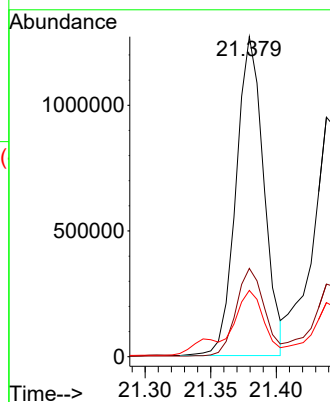
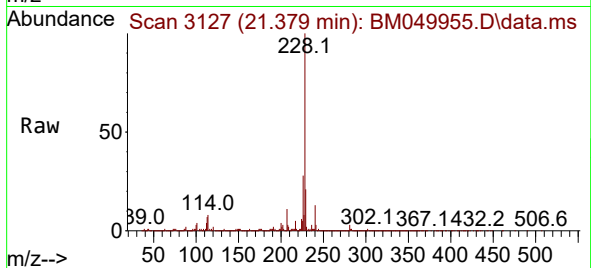
229 20.7 15.8 23.8

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Reviewed By :Rahul Chavli 04/17/2025

Supervised By :Jagrut Upadhyay 04/17/2025



#83

Chrysene

Concen: 15.038 ng m

RT: 21.438 min Scan# 3137

Delta R.T. -0.012 min

Lab File: BM049955.D

Acq: 16 Apr 2025 16:44

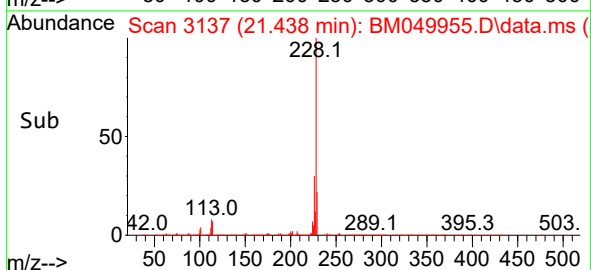
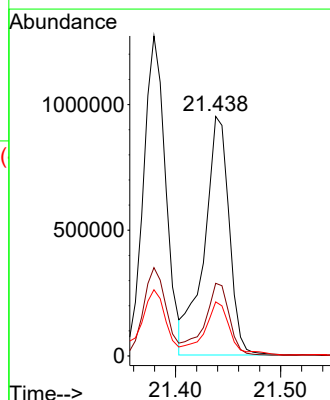
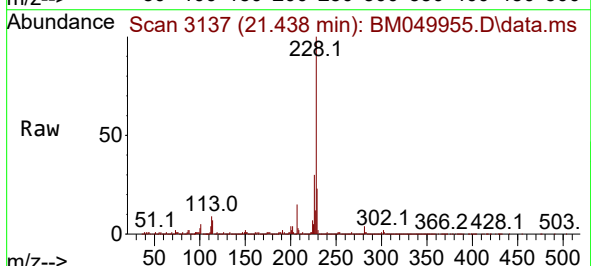
Tgt Ion:228 Resp: 1567451

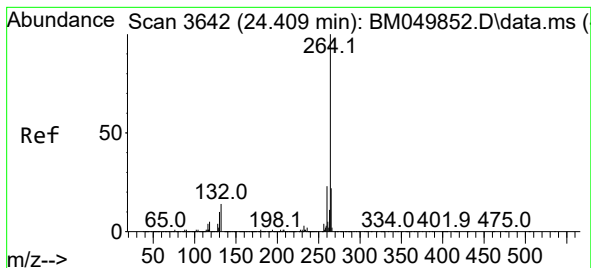
Ion Ratio Lower Upper

228 100

226 30.3 24.1 36.1

229 22.6 15.8 23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.403 min Scan# 3

Delta R.T. -0.006 min

Lab File: BM049955.D

Acq: 16 Apr 2025 16:44

Instrument :

BNA_M

ClientSampleId :

WC-1DL

Tgt Ion:264 Resp: 1790029

Ion Ratio Lower Upper

264 100

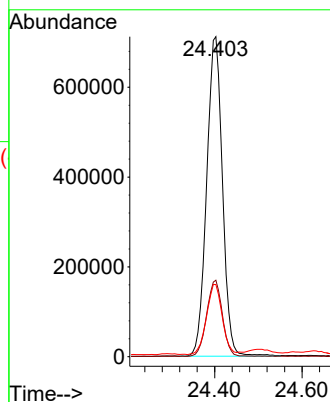
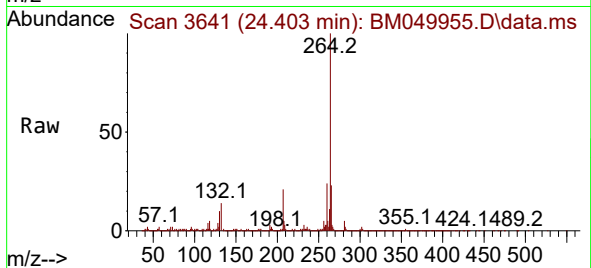
260 23.9 18.6 28.0

265 22.5 17.8 26.8

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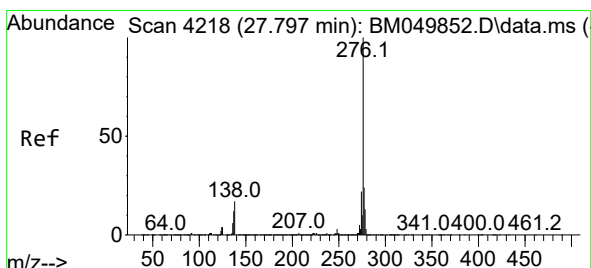
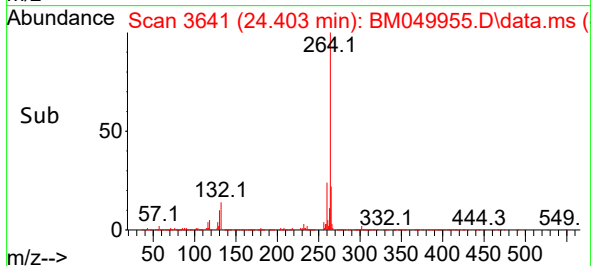
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Reviewed By :Rahul
Chavli



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Supervised By :Jagrut
Upadhyay

04/17/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 6.944 ng

RT: 27.779 min Scan# 4215

Delta R.T. -0.018 min

Lab File: BM049955.D

Acq: 16 Apr 2025 16:44

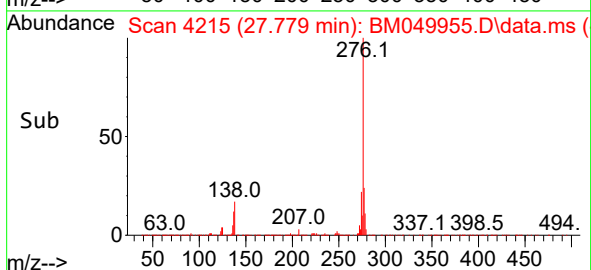
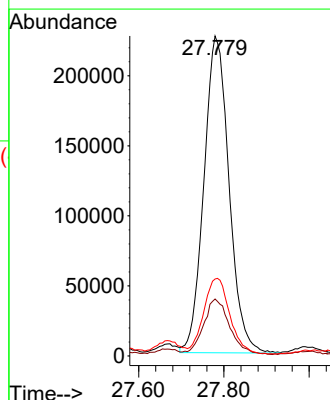
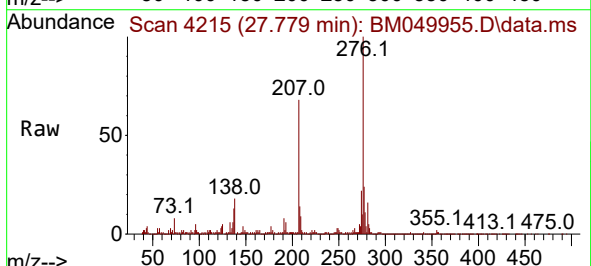
Tgt Ion:276 Resp: 926545

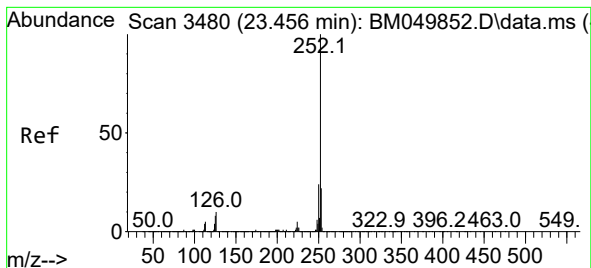
Ion Ratio Lower Upper

276 100

138 18.1 16.8 25.2

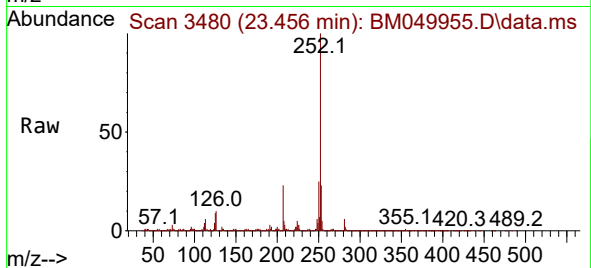
277 24.8 20.1 30.1





#88
Benzo(b)fluoranthene
Concen: 17.057 ng
RT: 23.456 min Scan# 3480
Delta R.T. -0.000 min
Lab File: BM049955.D
Acq: 16 Apr 2025 16:44

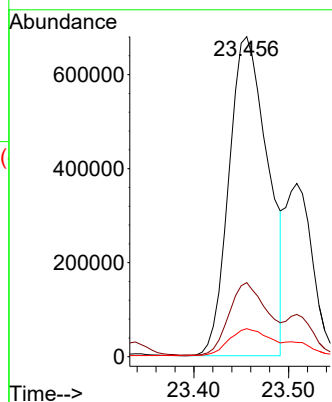
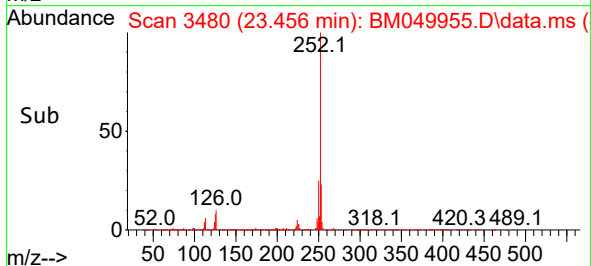
Instrument :
BNA_M
ClientSampleId :
WC-1DL



Tgt Ion:252 Resp: 1949958
Ion Ratio Lower Upper
252 100
253 23.2 17.5 26.3
125 8.8 6.2 9.4

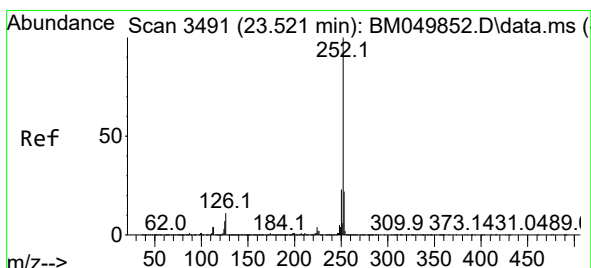
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Chavli

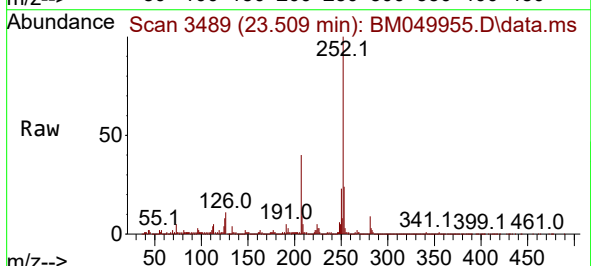


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Upadhyay

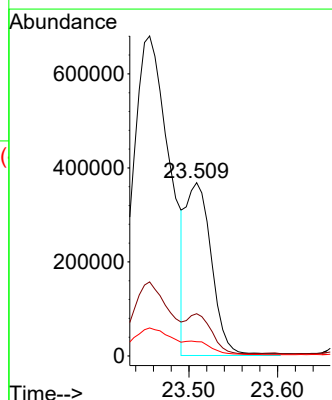
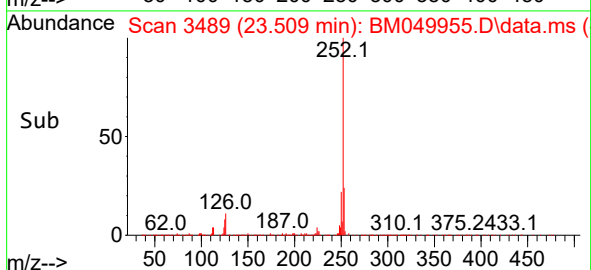
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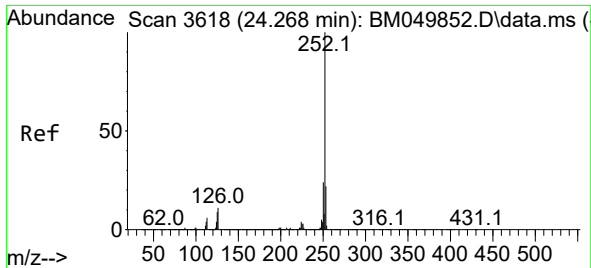


#89
Benzo(k)fluoranthene
Concen: 6.700 ng m
RT: 23.509 min Scan# 3489
Delta R.T. -0.012 min
Lab File: BM049955.D
Acq: 16 Apr 2025 16:44



Tgt Ion:252 Resp: 742238
Ion Ratio Lower Upper
252 100
253 24.4 17.4 26.2
125 8.2 5.8 8.8





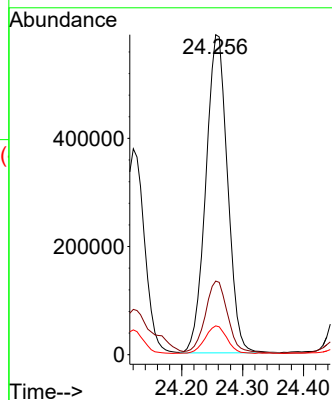
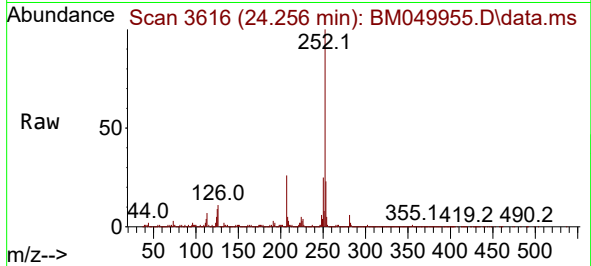
#90
Benzo(a)pyrene
Concen: 14.487 ng
RT: 24.256 min Scan# 30
Delta R.T. -0.012 min
Lab File: BM049955.D
Acq: 16 Apr 2025 16:44

Instrument :
BNA_M
ClientSampleId :
WC-1DL

Tgt Ion:252 Resp: 145539
Ion Ratio Lower Upper
252 100
253 23.0 17.8 26.8
125 9.0 7.0 10.4

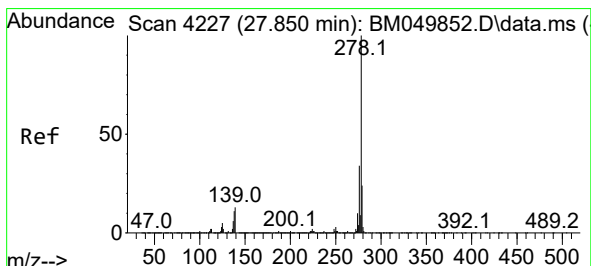
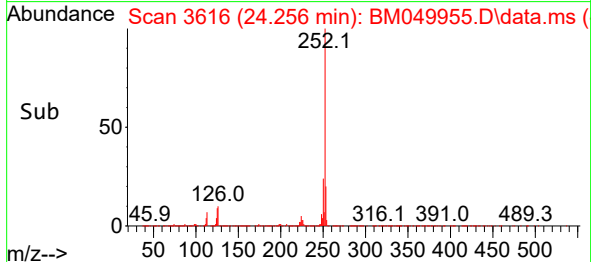
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Chavli



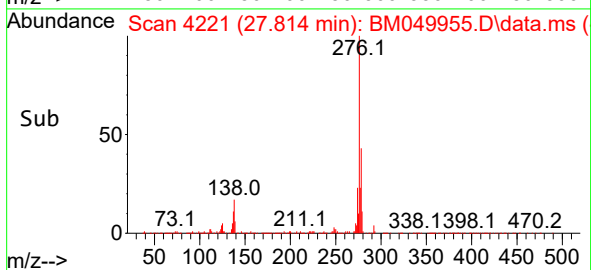
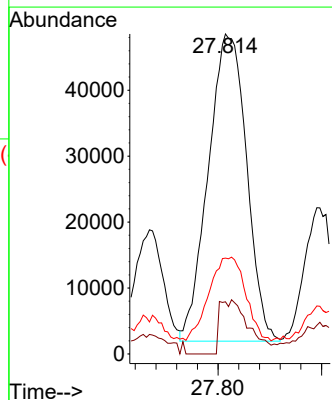
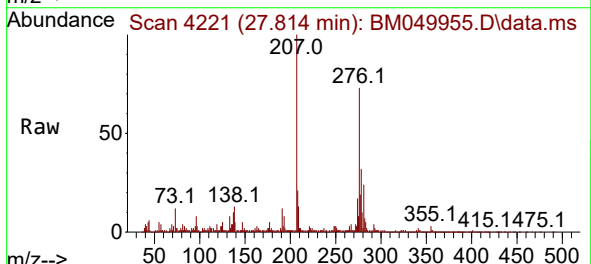
04/17/2025
Supervised By :Jagrut
Upadhyay

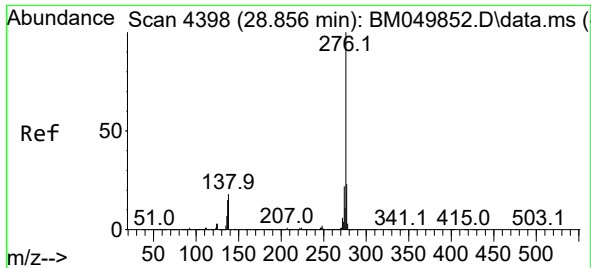
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#91
Dibenzo(a,h)anthracene
Concen: 2.185 ng m
RT: 27.814 min Scan# 4221
Delta R.T. -0.036 min
Lab File: BM049955.D
Acq: 16 Apr 2025 16:44

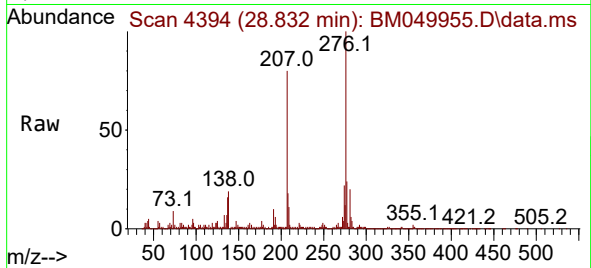
Tgt Ion:278 Resp: 240165
Ion Ratio Lower Upper
278 100
139 16.3 10.6 15.8#
279 29.9 19.1 28.7#





#92
Benzo(g,h,i)perylene
Concen: 7.663 ng
RT: 28.832 min Scan# 41
Delta R.T. -0.024 min
Lab File: BM049955.D
Acq: 16 Apr 2025 16:44

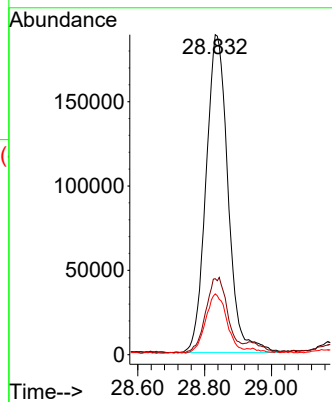
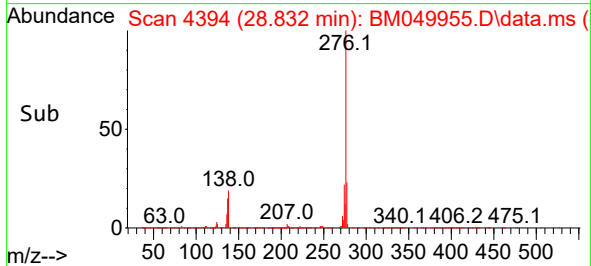
Instrument :
BNA_M
ClientSampleId :
WC-1DL



Tgt Ion:276 Resp: 86059
Ion Ratio Lower Upper
276 100
277 23.7 18.7 28.1
138 19.0 14.6 21.8

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Reviewed By :Rahul
Chavli



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Supervised By :Jagrut
Upadhyay

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