

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041425\
 Data File : BM049924.D
 Acq On : 14 Apr 2025 21:43
 Operator : RC/JU
 Sample : Q1783-01 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SU-03-41125

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 04/15/2025
 Supervised By :Jagrut Upadhyay 04/15/2025

Quant Time: Apr 15 01:05:03 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	7.775	152	442191	20.000	ng	0.00
21) Naphthalene-d8	10.569	136	1451474	20.000	ng	0.00
39) Acenaphthene-d10	14.416	164	900804	20.000	ng	0.00
64) Phenanthrene-d10	17.163	188	1746418	20.000	ng	0.00
76) Chrysene-d12	21.398	240	1785382	20.000	ng	0.00
86) Perylene-d12	24.397	264	2013028	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.363	112	263098	10.103	ng	0.00
7) Phenol-d6	6.951	99	305363	9.425	ng	0.00
23) Nitrobenzene-d5	8.928	82	202038	7.751	ng	0.00
42) 2,4,6-Tribromophenol	15.910	330	124830	9.527	ng	0.00
45) 2-Fluorobiphenyl	13.033	172	470266	7.079	ng	-0.01
79) Terphenyl-d14	19.786	244	658469	6.912	ng	0.00
Target Compounds						Qvalue
37) 2-Methylnaphthalene	12.233	142	209234	3.982	ng	98
38) 1-Methylnaphthalene	12.451	142	150189	2.934	ng	# 99
58) Fluorene	15.463	166	160641	2.479	ng	# 88
71) Phenanthrene	17.204	178	1051033	10.977	ng	99
72) Anthracene	17.292	178	294421m	3.120	ng	
75) Fluoranthene	19.221	202	1274507	10.826	ng	100
78) Pyrene	19.580	202	1183557	9.619	ng	99
81) Benzo(a)anthracene	21.380	228	556101	4.687	ng	95
83) Chrysene	21.439	228	505881m	4.484	ng	
87) Indeno(1,2,3-cd)pyrene	27.779	276	315471	2.102	ng	98
88) Benzo(b)fluoranthene	23.450	252	642457	4.997	ng	# 92
90) Benzo(a)pyrene	24.256	252	495593	4.387	ng	# 93
92) Benzo(g,h,i)perylene	28.838	276	297684	2.357	ng	95

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

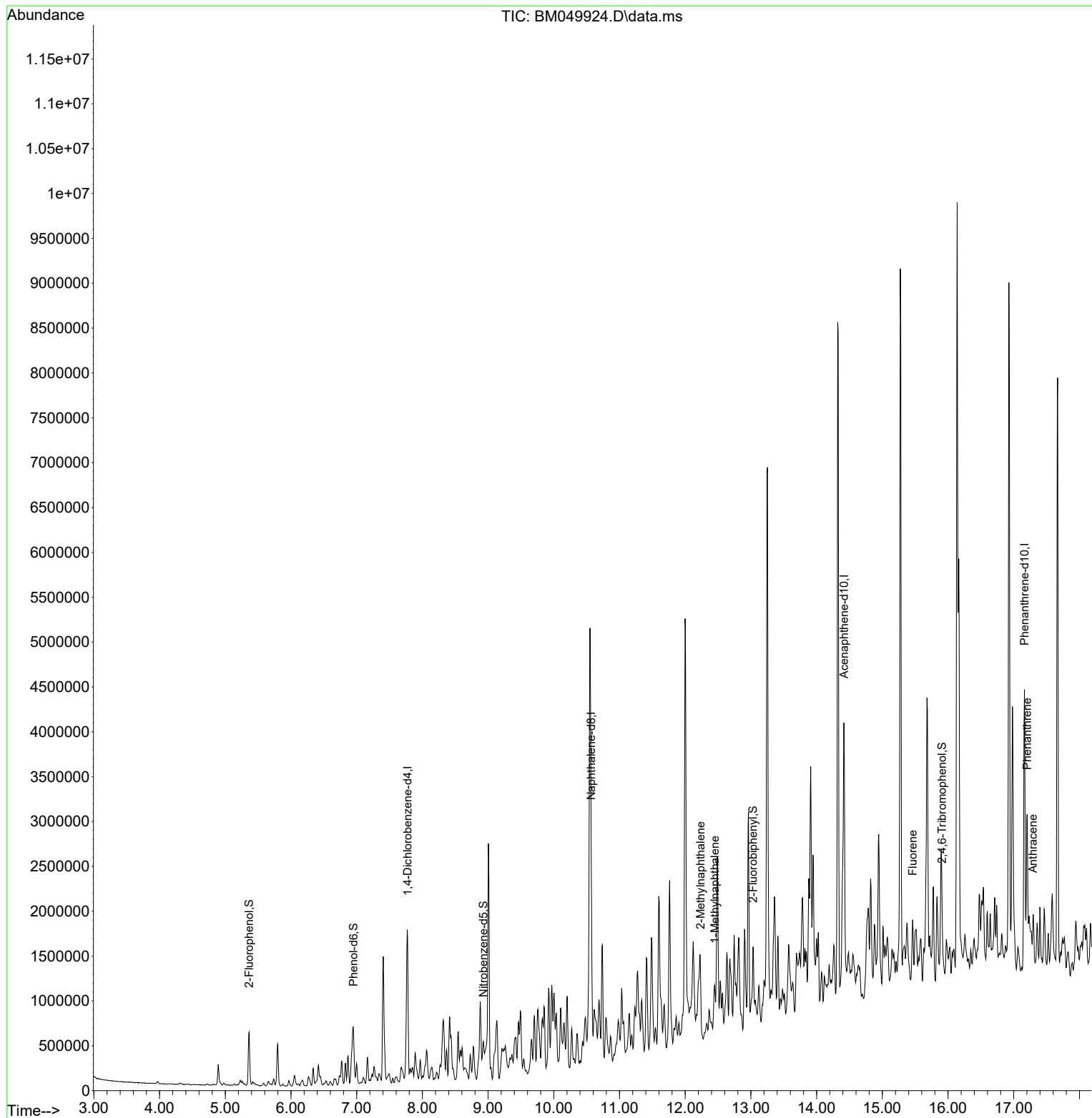
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Data File : BM049924.D
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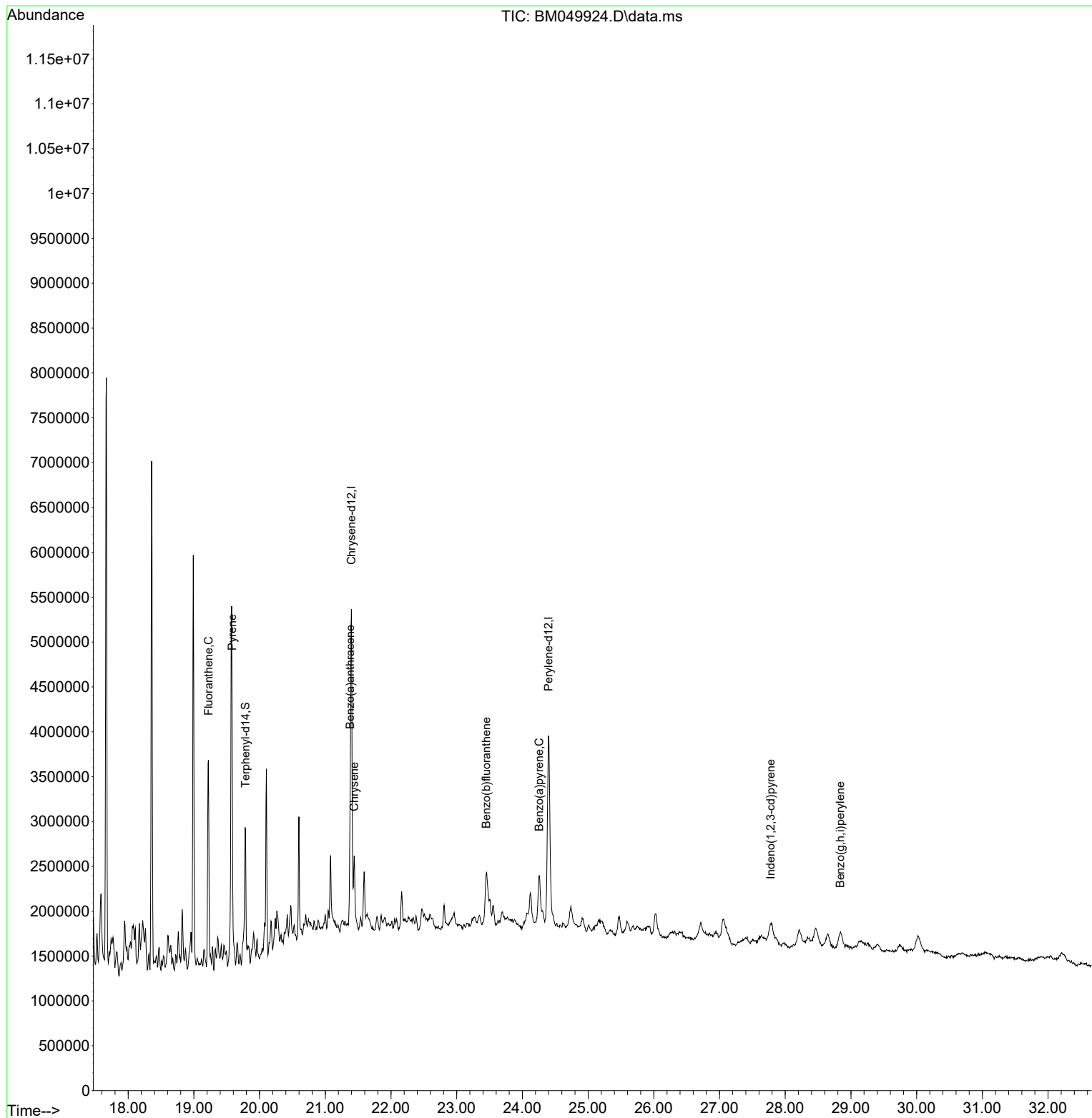
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Data File : BM049924.D
Acq On : 14 Apr 2025 21:43
Operator : RC/JU
Sample : Q1783-01 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

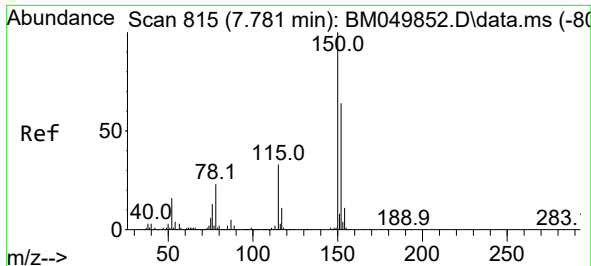
Instrument :
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ClientSampleId :
SU-03-41125

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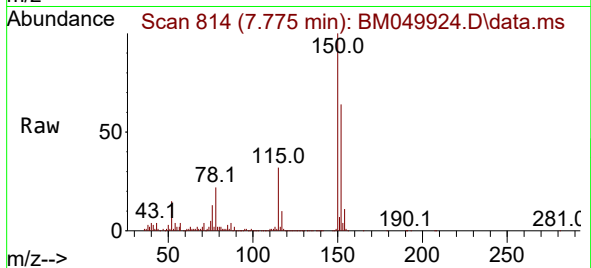
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.775 min Scan# 815
Delta R.T. -0.006 min
Lab File: BM049924.D
Acq: 14 Apr 2025 21:43

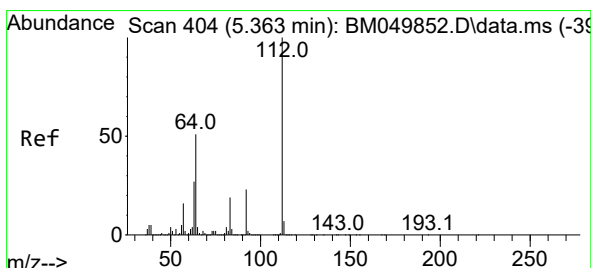
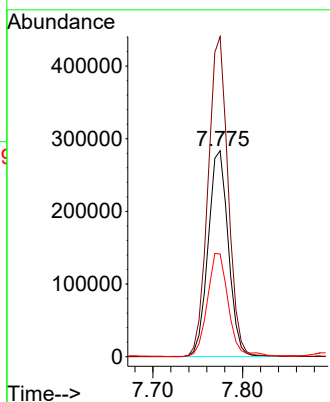
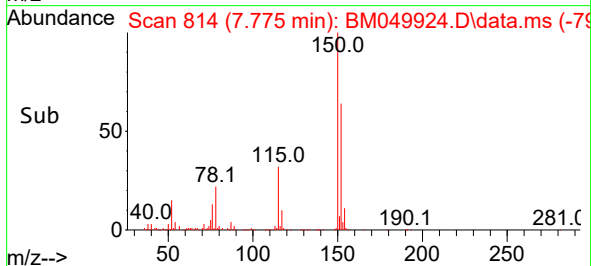
Instrument :
BNA_M
ClientSampleId :
SU-03-41125



Tgt Ion:152 Resp: 44219
Ion Ratio Lower Upper
152 100
150 155.4 124.3 186.5
115 49.9 41.1 61.7

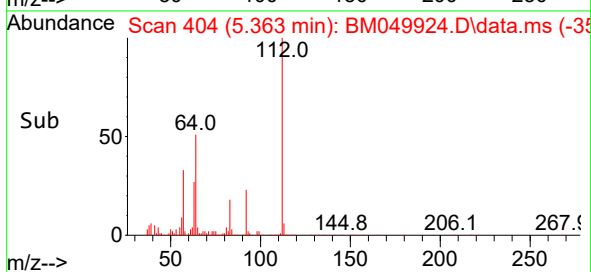
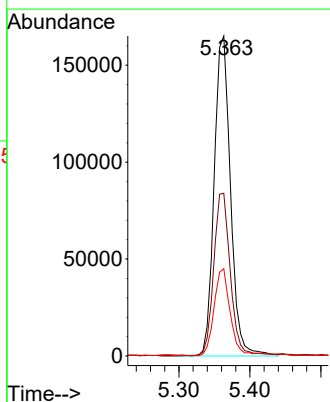
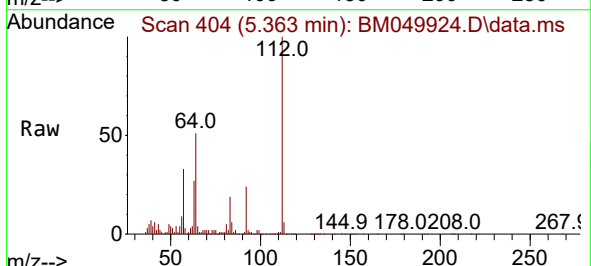
Manual Integrations
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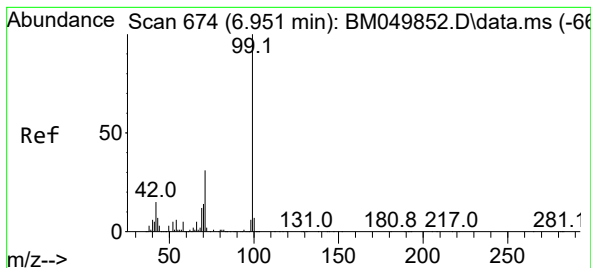
Reviewed By :Rahul Chavli 04/15/2025
Supervised By :Jagrut Upadhyay 04/15/2025



#5
2-Fluorophenol
Concen: 10.103 ng
RT: 5.363 min Scan# 404
Delta R.T. 0.000 min
Lab File: BM049924.D
Acq: 14 Apr 2025 21:43

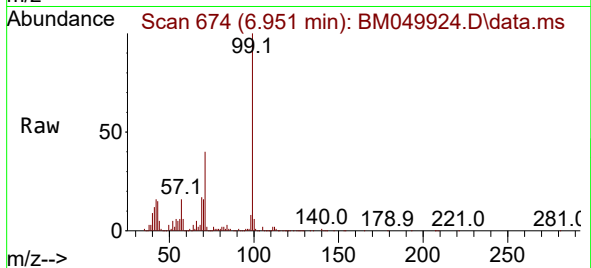
Tgt Ion:112 Resp: 263098
Ion Ratio Lower Upper
112 100
64 50.9 41.0 61.6
63 27.2 21.5 32.3





#7
Phenol-d6
Concen: 9.425 ng
RT: 6.951 min Scan# 61
Delta R.T. 0.000 min
Lab File: BM049924.D
Acq: 14 Apr 2025 21:43

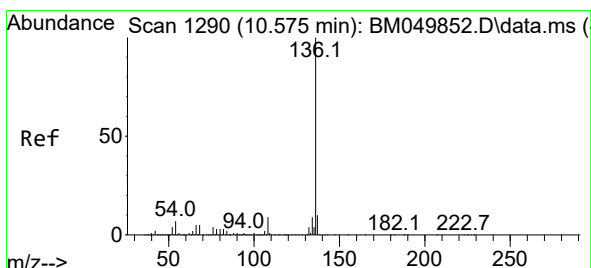
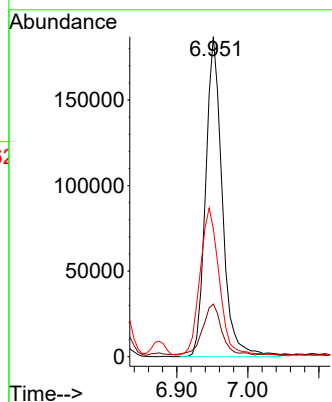
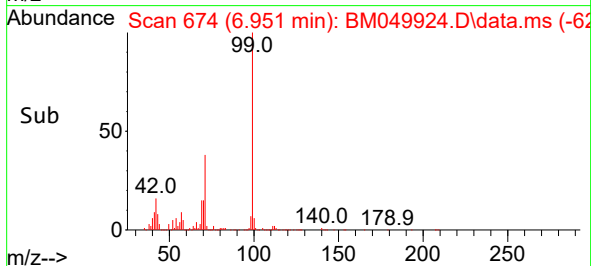
Instrument :
BNA_M
ClientSampleId :
SU-03-41125



Tgt Ion: 99 Resp: 30536
Ion Ratio Lower Upper
99 100
42 16.4 12.1 18.1
71 40.0 24.9 37.3

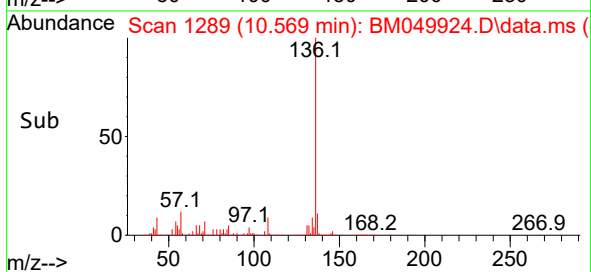
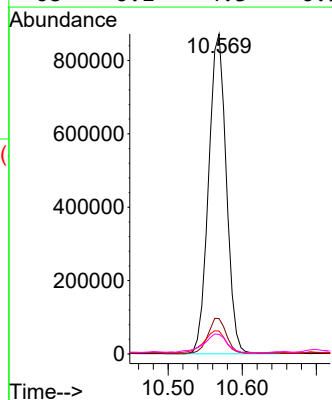
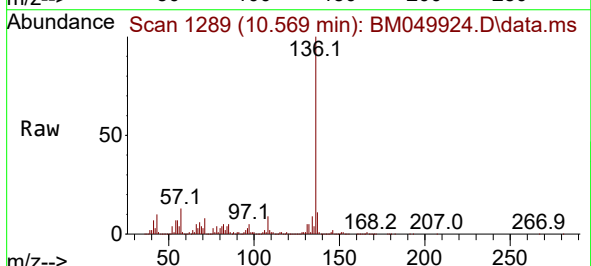
Manual Integrations
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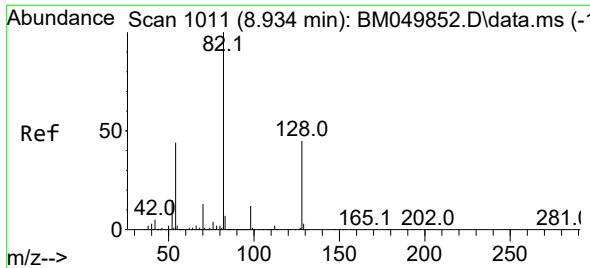
Reviewed By :Rahul Chavli 04/15/2025
Supervised By :Jagrut Upadhyay 04/15/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.569 min Scan# 1289
Delta R.T. -0.006 min
Lab File: BM049924.D
Acq: 14 Apr 2025 21:43

Tgt Ion:136 Resp: 1451474
Ion Ratio Lower Upper
136 100
137 11.1 8.4 12.6
54 7.2 5.3 7.9
68 6.1 4.3 6.5





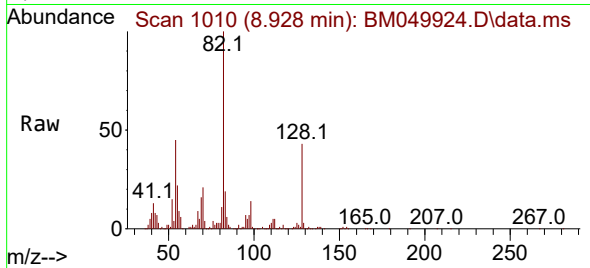
#23
Nitrobenzene-d5
Concen: 7.751 ng
RT: 8.928 min Scan# 1010
Delta R.T. -0.006 min
Lab File: BM049924.D
Acq: 14 Apr 2025 21:43

Instrument :

BNA_M

ClientSampleId :

SU-03-41125



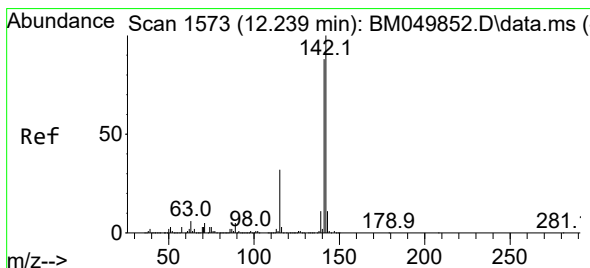
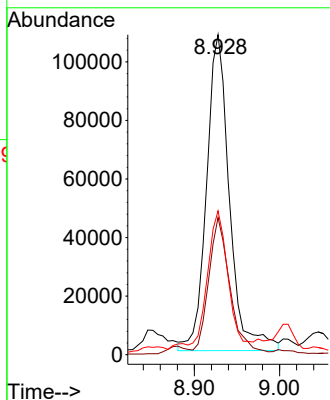
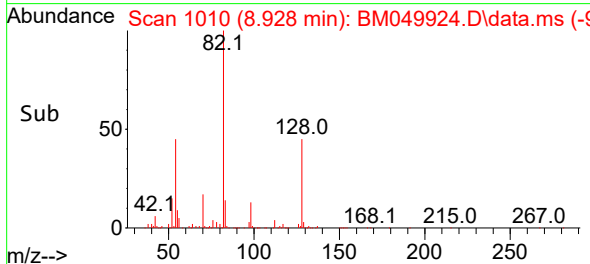
Tgt Ion: 82 Resp: 202038
Ion Ratio Lower Upper
82 100
128 42.9 36.2 54.2
54 44.9 35.0 52.6

Manual Integrations

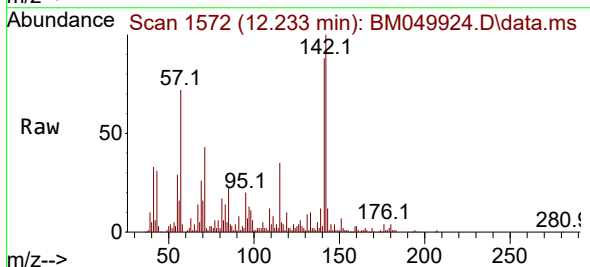
APPROVED

Reviewed By :Rahul Chavli 04/15/2025

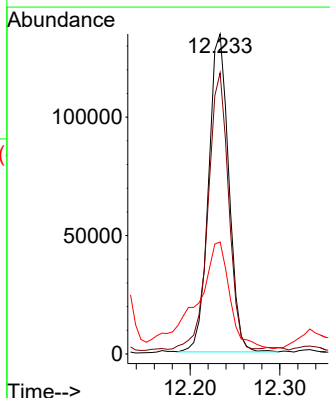
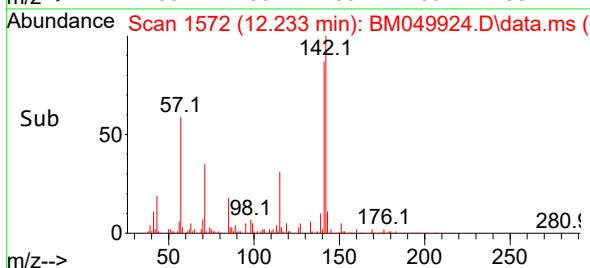
Supervised By :Jagrut Upadhyay 04/15/2025

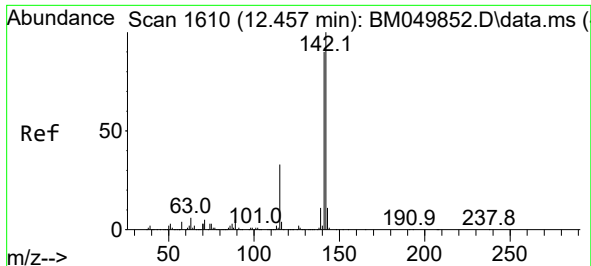


#37
2-Methylnaphthalene
Concen: 3.982 ng
RT: 12.233 min Scan# 1572
Delta R.T. -0.006 min
Lab File: BM049924.D
Acq: 14 Apr 2025 21:43



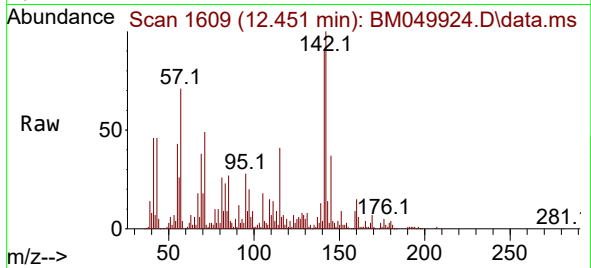
Tgt Ion:142 Resp: 209234
Ion Ratio Lower Upper
142 100
141 87.9 70.2 105.2
115 35.0 25.4 38.2





#38
1-Methylnaphthalene
Concen: 2.934 ng
RT: 12.451 min Scan# 1609
Delta R.T. -0.006 min
Lab File: BM049924.D
Acq: 14 Apr 2025 21:43

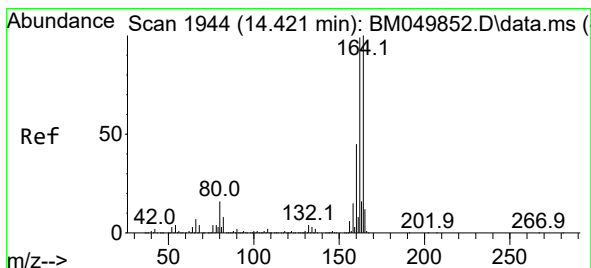
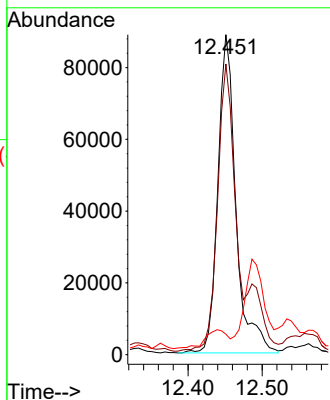
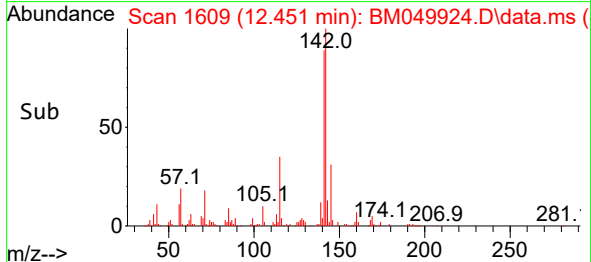
Instrument :
BNA_M
ClientSampleId :
SU-03-41125



Tgt Ion:142 Resp: 150189
Ion Ratio Lower Upper
142 100
141 90.8 72.2 108.2
116 6.4 2.9 4.3

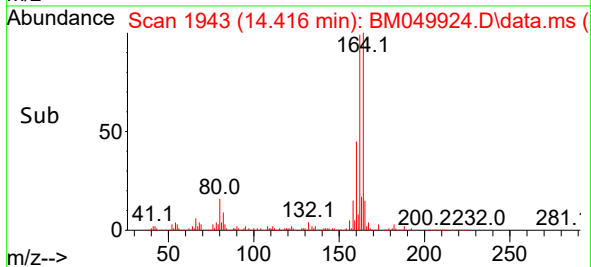
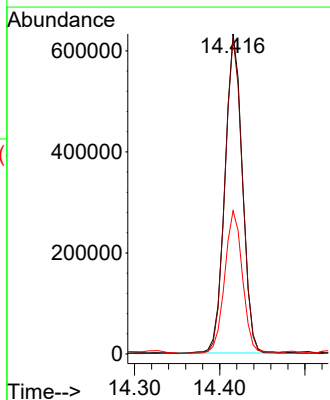
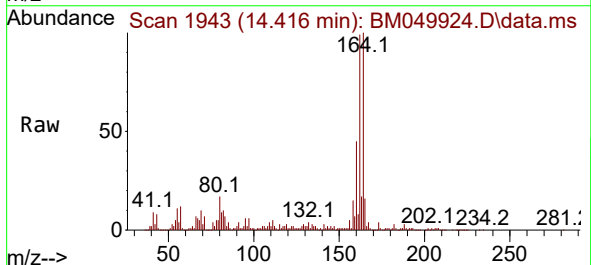
Manual Integrations
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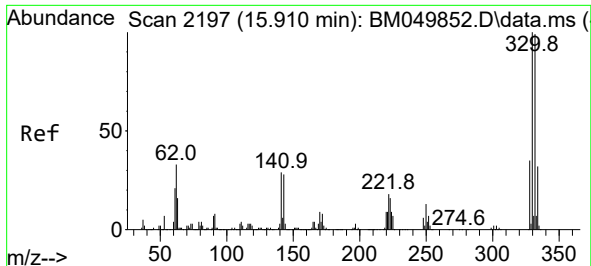
Reviewed By :Rahul Chavli 04/15/2025
Supervised By :Jagrut Upadhyay 04/15/2025



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.416 min Scan# 1943
Delta R.T. -0.006 min
Lab File: BM049924.D
Acq: 14 Apr 2025 21:43

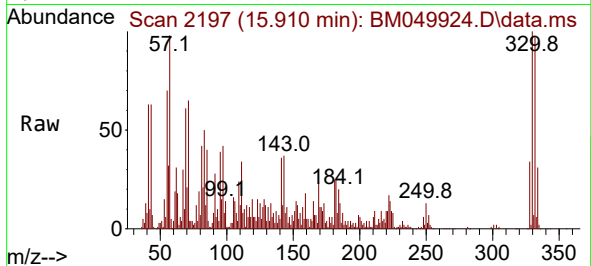
Tgt Ion:164 Resp: 900804
Ion Ratio Lower Upper
164 100
162 98.6 79.4 119.0
160 44.8 36.2 54.2





#42
2,4,6-Tribromophenol
Concen: 9.527 ng
RT: 15.910 min Scan# 2197
Delta R.T. 0.000 min
Lab File: BM049924.D
Acq: 14 Apr 2025 21:43

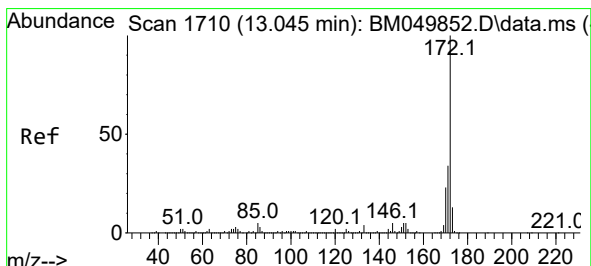
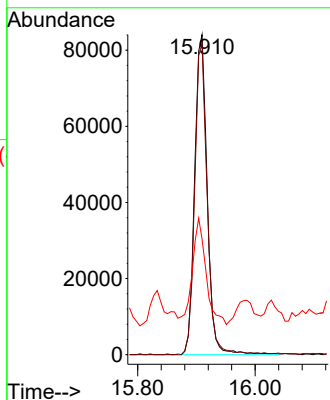
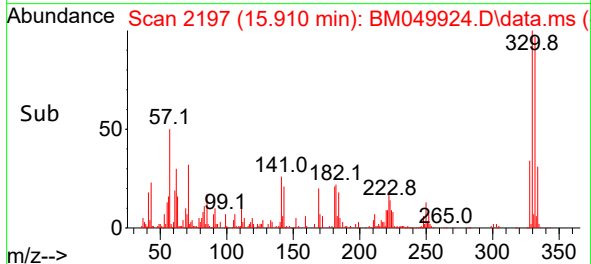
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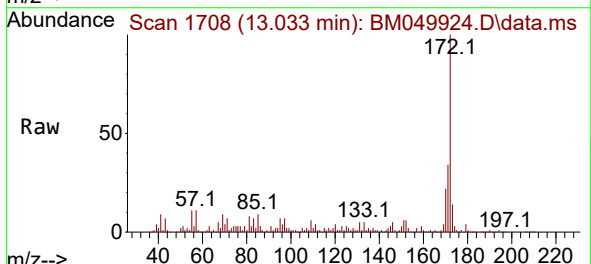
Tgt Ion: 330 Resp: 124830
Ion Ratio Lower Upper
330 100
332 96.4 78.0 117.0
141 36.2 23.5 35.3

Manual Integrations
APPROVED

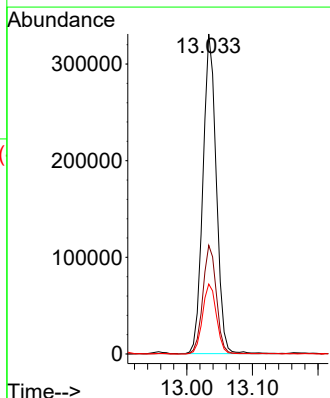
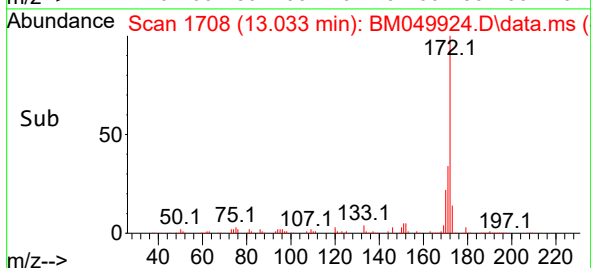
Reviewed By :Rahul Chavli 04/15/2025
Supervised By :Jagrut Upadhyay 04/15/2025

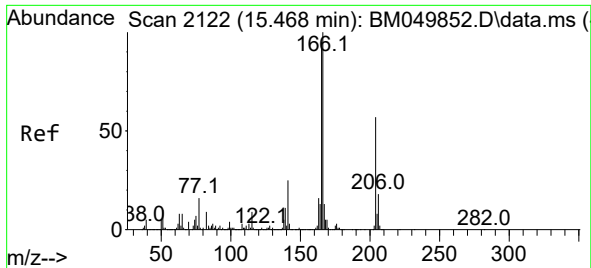


#45
2-Fluorobiphenyl
Concen: 7.079 ng
RT: 13.033 min Scan# 1708
Delta R.T. -0.012 min
Lab File: BM049924.D
Acq: 14 Apr 2025 21:43



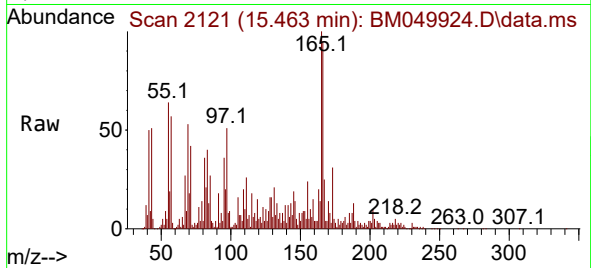
Tgt Ion: 172 Resp: 470266
Ion Ratio Lower Upper
172 100
171 34.0 27.4 41.2
170 21.9 18.6 28.0





#58
Fluorene
Concen: 2.479 ng
RT: 15.463 min Scan# 2121
Delta R.T. -0.006 min
Lab File: BM049924.D
Acq: 14 Apr 2025 21:43

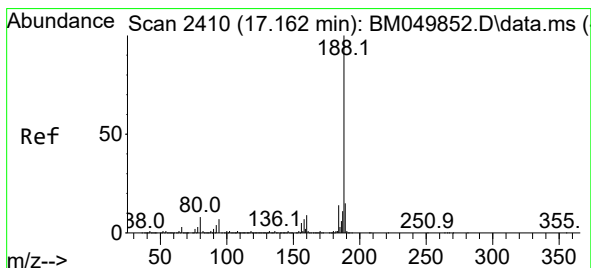
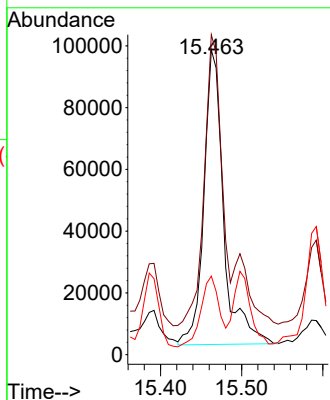
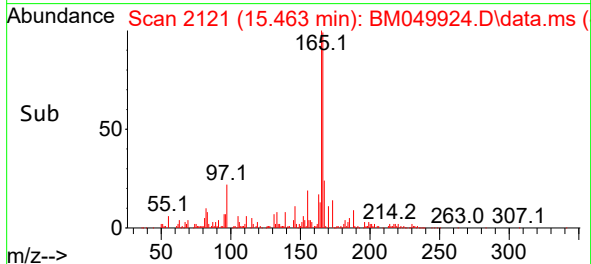
Instrument :
BNA_M
ClientSampleId :
SU-03-41125



Tgt Ion:166 Resp: 16064
Ion Ratio Lower Upper
166 100
165 105.0 76.3 114.5
167 25.8 10.7 16.1

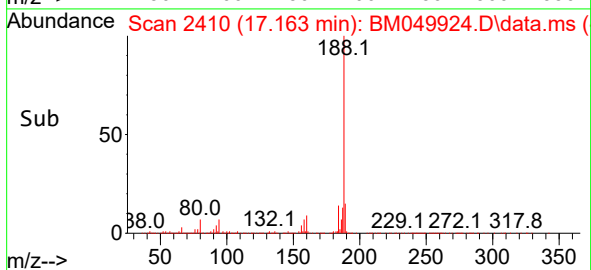
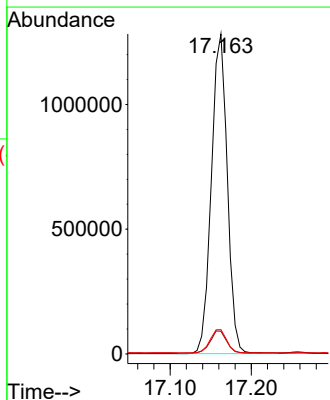
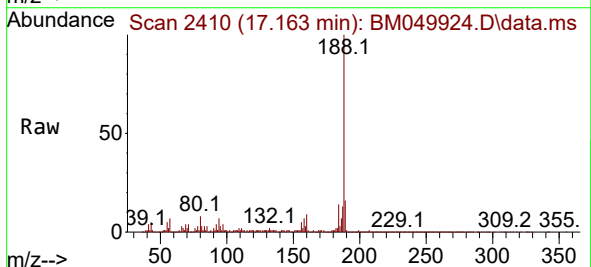
Manual Integrations
APPROVED

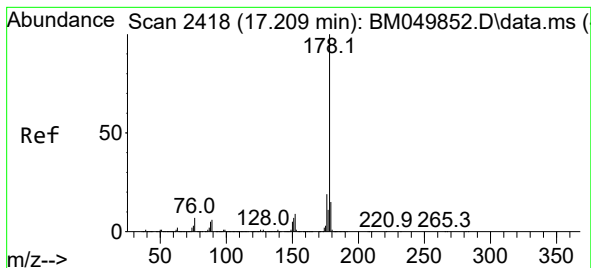
Reviewed By :Rahul Chavli 04/15/2025
Supervised By :Jagrut Upadhyay 04/15/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.163 min Scan# 2410
Delta R.T. 0.000 min
Lab File: BM049924.D
Acq: 14 Apr 2025 21:43

Tgt Ion:188 Resp: 1746418
Ion Ratio Lower Upper
188 100
94 7.1 5.8 8.6
80 7.6 6.4 9.6





#71

Phenanthrene

Concen: 10.977 ng

RT: 17.204 min Scan# 2418

Delta R.T. -0.006 min

Lab File: BM049924.D

Acq: 14 Apr 2025 21:43

Instrument :

BNA_M

ClientSampleId :

SU-03-41125

Tgt Ion:178 Resp: 105103

Ion Ratio Lower Upper

178 100

176 19.0 15.4 23.2

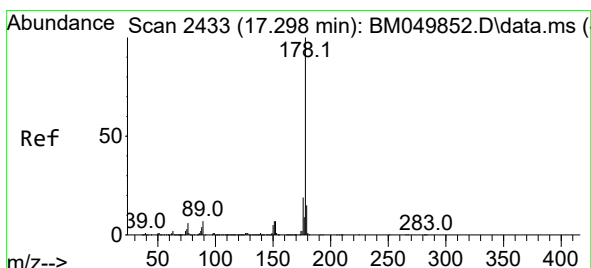
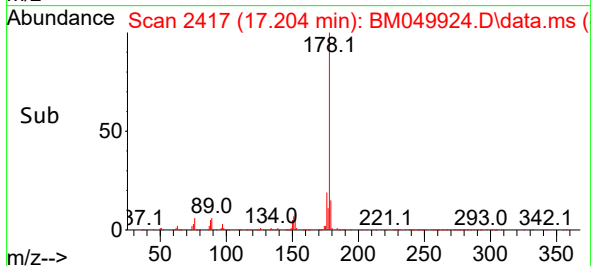
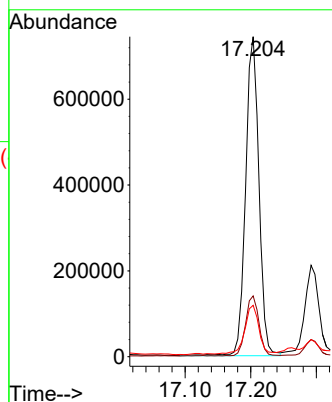
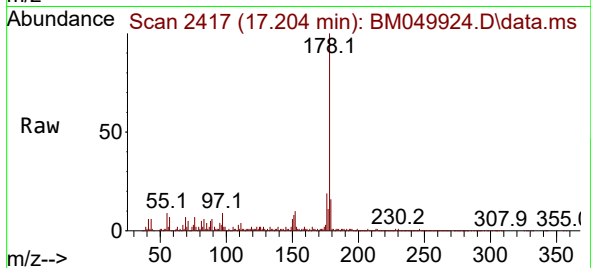
179 16.1 12.3 18.5

Manual Integrations

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Reviewed By :Rahul Chavli 04/15/2025

Supervised By :Jagrut Upadhyay 04/15/2025



#72

Anthracene

Concen: 3.120 ng m

RT: 17.292 min Scan# 2432

Delta R.T. -0.006 min

Lab File: BM049924.D

Acq: 14 Apr 2025 21:43

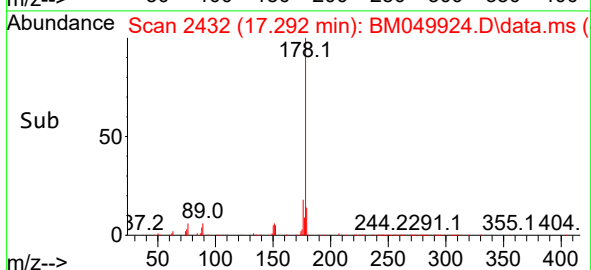
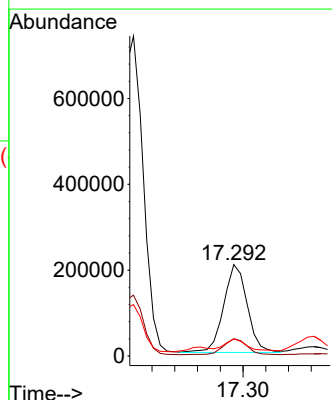
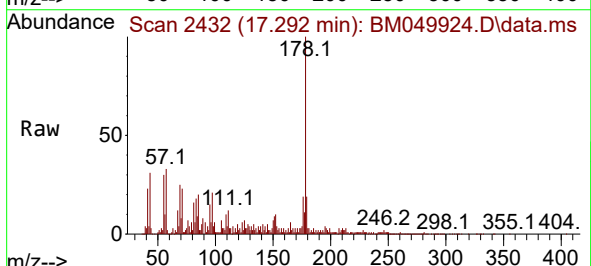
Tgt Ion:178 Resp: 294421

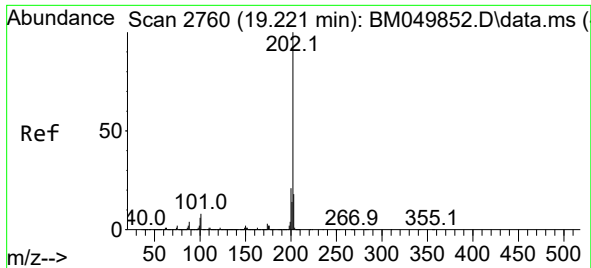
Ion Ratio Lower Upper

178 100

176 18.8 15.1 22.7

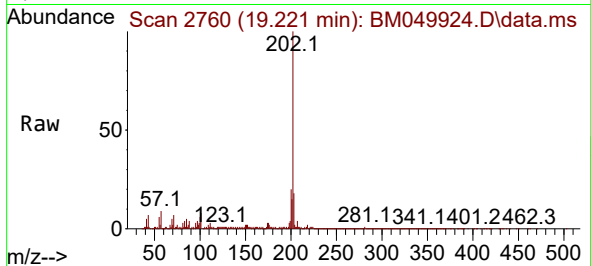
179 18.7 12.4 18.6#





#75
Fluoranthene
Concen: 10.826 ng
RT: 19.221 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM049924.D
Acq: 14 Apr 2025 21:43

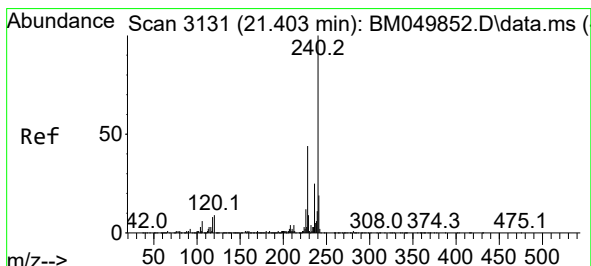
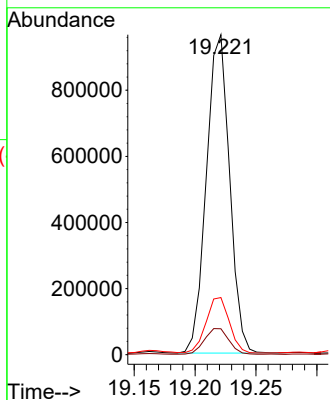
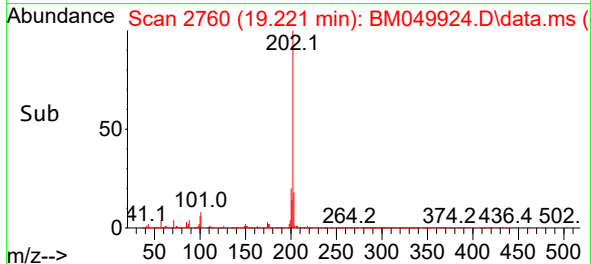
Instrument :
BNA_M
ClientSampleId :
SU-03-41125



Tgt Ion:202 Resp: 127450
Ion Ratio Lower Upper
202 100
101 8.1 0.0 28.4
203 17.9 0.0 37.8

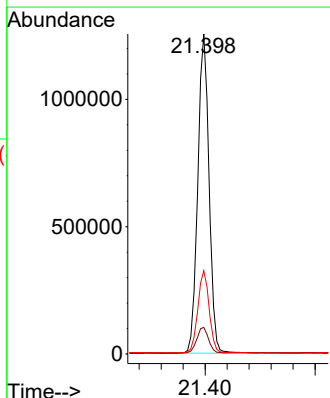
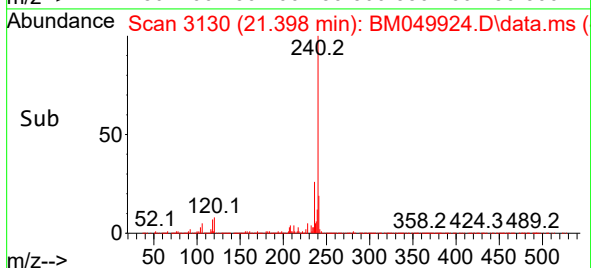
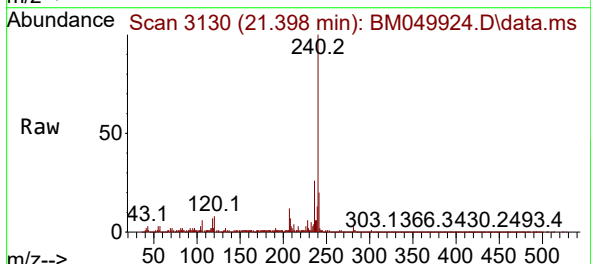
Manual Integrations
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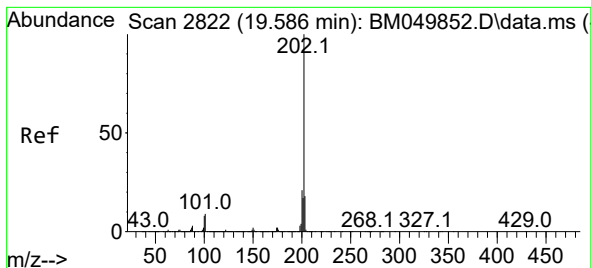
Reviewed By :Rahul Chavli 04/15/2025
Supervised By :Jagrut Upadhyay 04/15/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.398 min Scan# 3130
Delta R.T. -0.006 min
Lab File: BM049924.D
Acq: 14 Apr 2025 21:43

Tgt Ion:240 Resp: 1785382
Ion Ratio Lower Upper
240 100
120 8.3 6.9 10.3
236 26.0 20.4 30.6





#78

Pyrene

Concen: 9.619 ng

RT: 19.580 min Scan# 2822

Delta R.T. -0.006 min

Lab File: BM049924.D

Acq: 14 Apr 2025 21:43

Instrument :

BNA_M

ClientSampleId :

SU-03-41125

Tgt Ion:202 Resp: 118355

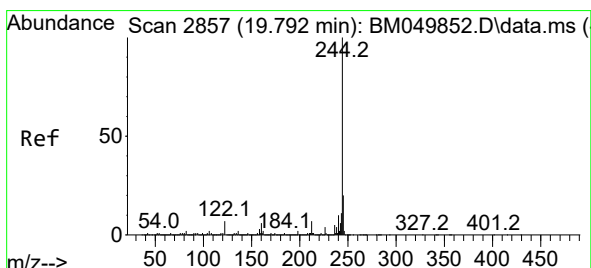
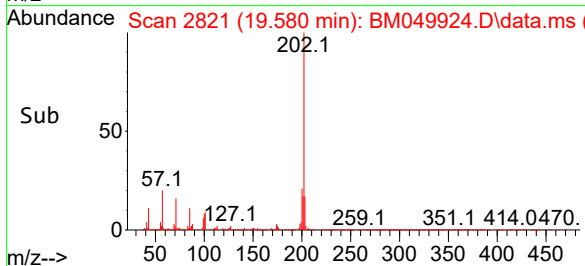
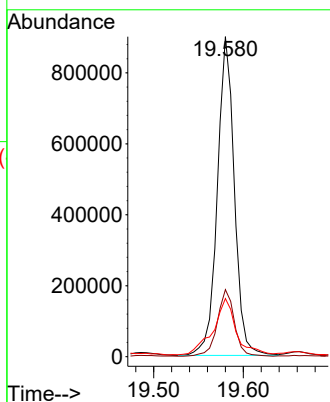
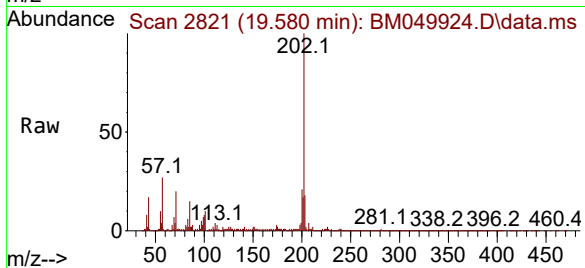
Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.5	24.7
203	18.2	14.0	21.0

Manual Integrations

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Reviewed By :Rahul Chavli 04/15/2025

Supervised By :Jagrut Upadhyay 04/15/2025



#79

Terphenyl-d14

Concen: 6.912 ng

RT: 19.786 min Scan# 2856

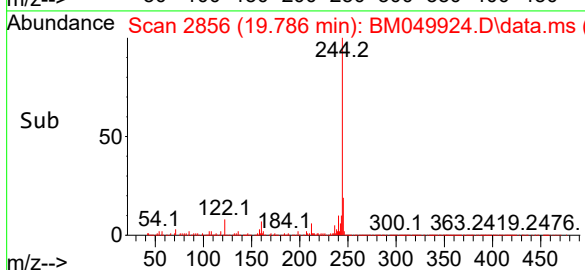
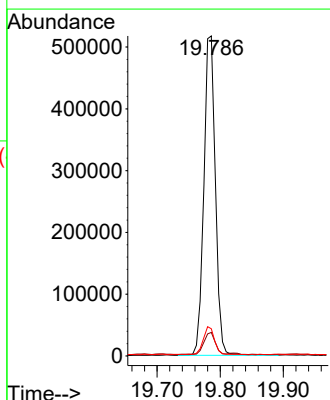
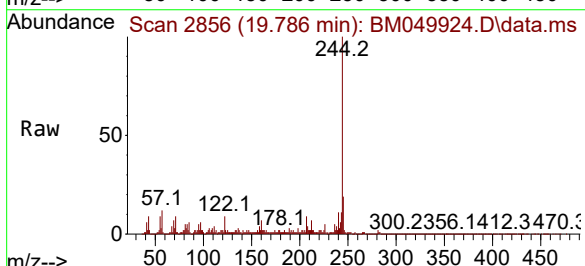
Delta R.T. -0.006 min

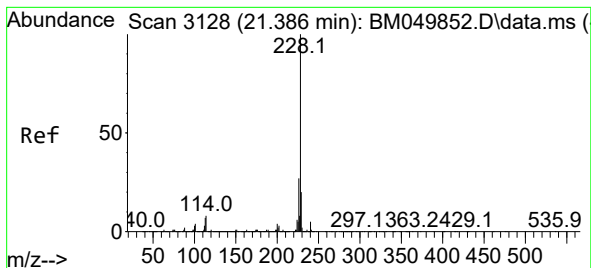
Lab File: BM049924.D

Acq: 14 Apr 2025 21:43

Tgt Ion:244 Resp: 658469

Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.5	8.3
122	8.5	5.4	8.0





#81

Benzo(a)anthracene

Concen: 4.687 ng

RT: 21.380 min Scan# 3128

Delta R.T. -0.006 min

Lab File: BM049924.D

Acq: 14 Apr 2025 21:43

Instrument :

BNA_M

ClientSampleId :

SU-03-41125

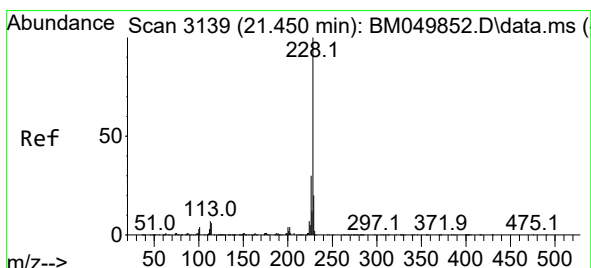
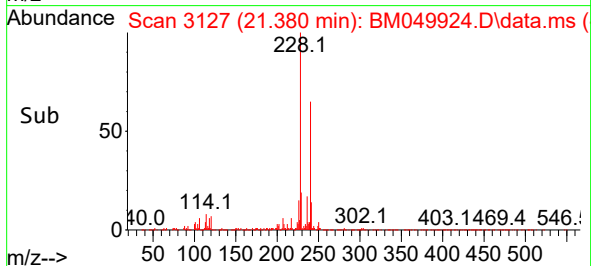
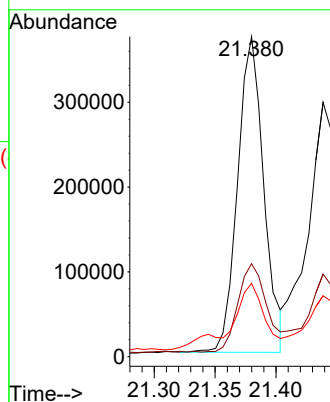
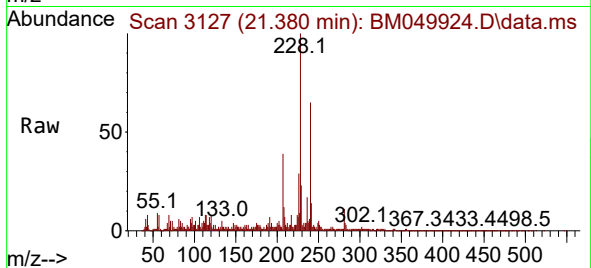
Tgt Ion:228 Resp: 55610
 Ion Ratio Lower Upper
 228 100
 226 29.1 21.8 32.8
 229 22.9 15.8 23.8

Manual Integrations

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Reviewed By :Rahul Chavli 04/15/2025

Supervised By :Jagrut Upadhyay 04/15/2025



#83

Chrysene

Concen: 4.484 ng m

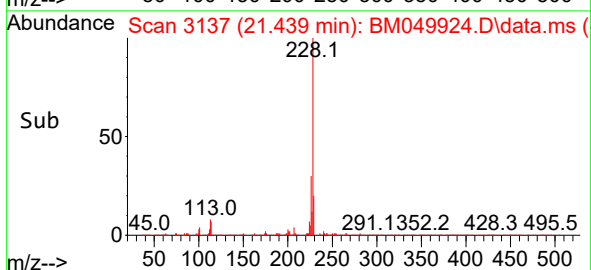
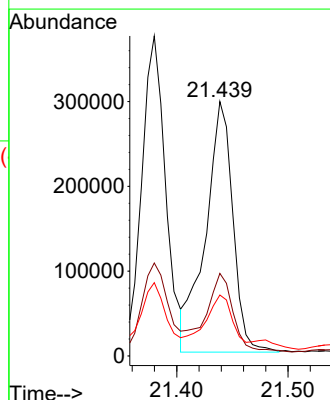
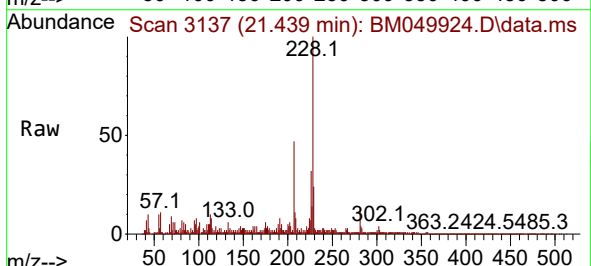
RT: 21.439 min Scan# 3137

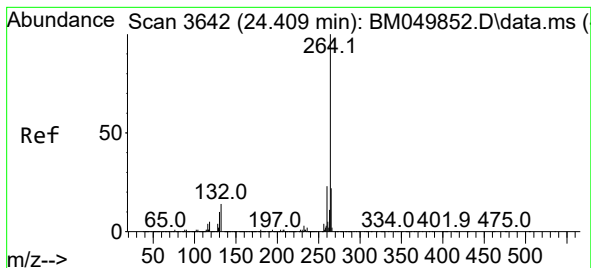
Delta R.T. -0.012 min

Lab File: BM049924.D

Acq: 14 Apr 2025 21:43

Tgt Ion:228 Resp: 505881
 Ion Ratio Lower Upper
 228 100
 226 32.5 24.1 36.1
 229 24.0 15.8 23.6#





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.397 min Scan# 30

Delta R.T. -0.012 min

Lab File: BM049924.D

Acq: 14 Apr 2025 21:43

Instrument :

BNA_M

ClientSampleId :

SU-03-41125

Tgt Ion:264 Resp: 2013028

Ion Ratio Lower Upper

264 100

260 24.2 18.6 28.0

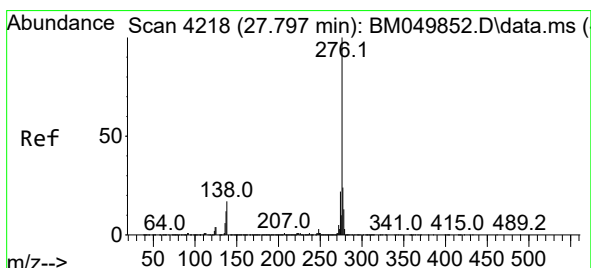
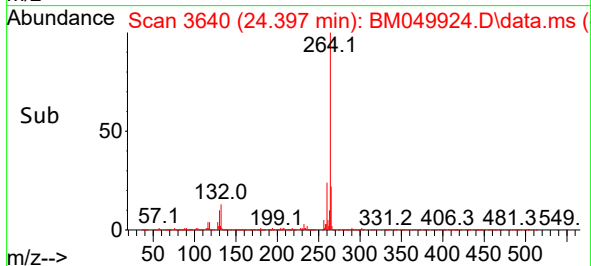
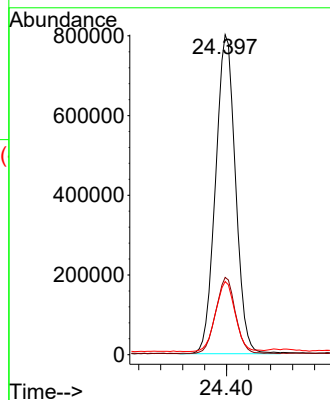
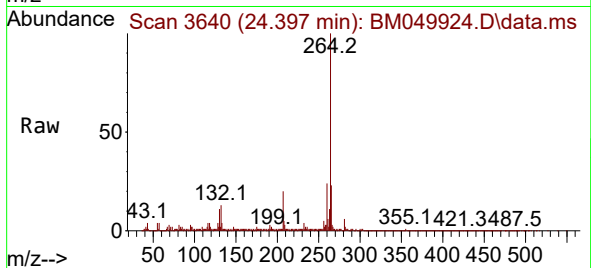
265 22.9 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/15/2025

Supervised By :Jagrut Upadhyay 04/15/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.102 ng

RT: 27.779 min Scan# 4215

Delta R.T. -0.018 min

Lab File: BM049924.D

Acq: 14 Apr 2025 21:43

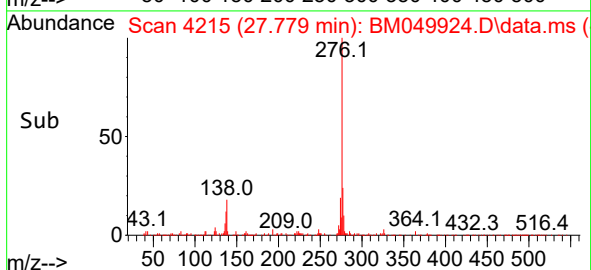
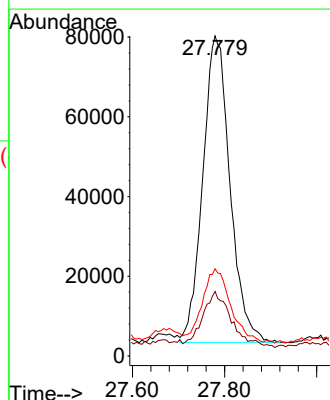
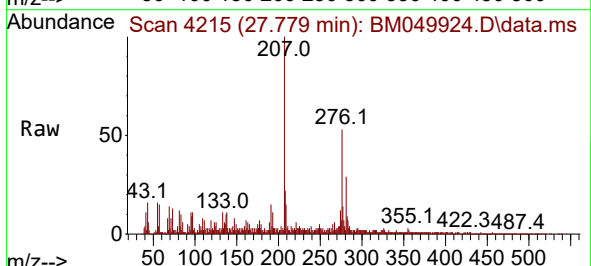
Tgt Ion:276 Resp: 315471

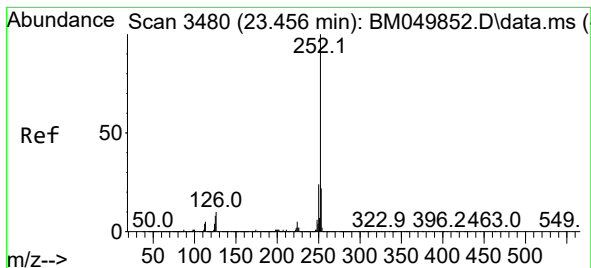
Ion Ratio Lower Upper

276 100

138 19.5 16.8 25.2

277 24.4 20.1 30.1





#88

Benzo(b)fluoranthene

Concen: 4.997 ng

RT: 23.450 min Scan# 34

Delta R.T. -0.006 min

Lab File: BM049924.D

Acq: 14 Apr 2025 21:43

Instrument :

BNA_M

ClientSampleId :

SU-03-41125

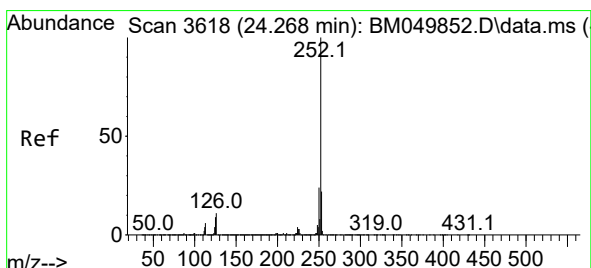
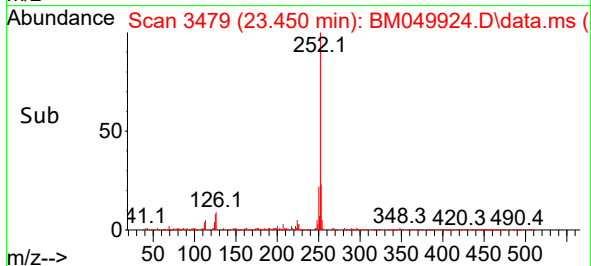
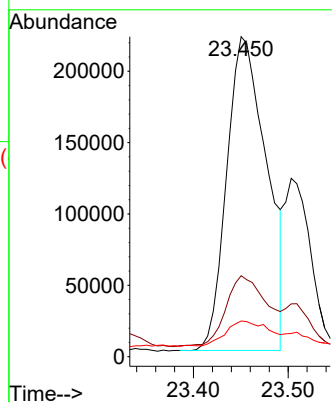
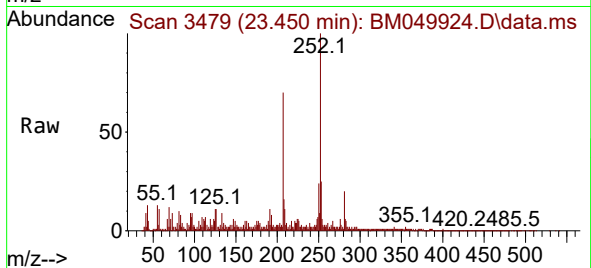
Tgt Ion:252 Resp: 64245
 Ion Ratio Lower Upper
 252 100
 253 25.3 17.5 26.3
 125 11.2 6.2 9.4

Manual Integrations

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Reviewed By :Rahul Chavli 04/15/2025

Supervised By :Jagrut Upadhyay 04/15/2025



#90

Benzo(a)pyrene

Concen: 4.387 ng

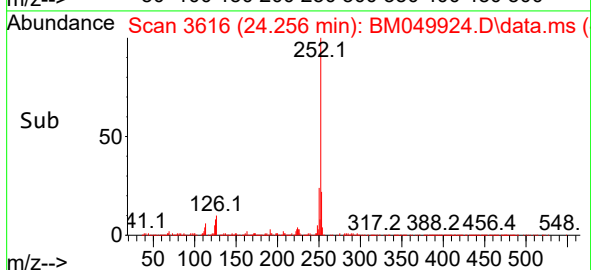
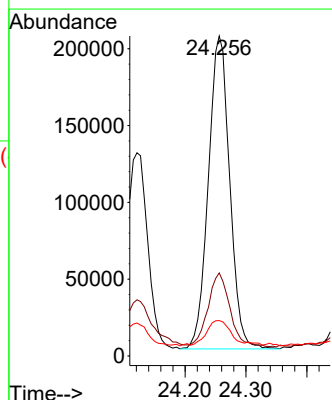
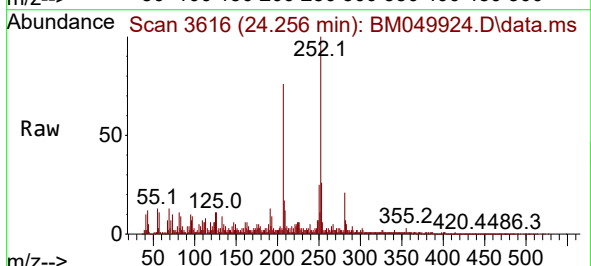
RT: 24.256 min Scan# 3616

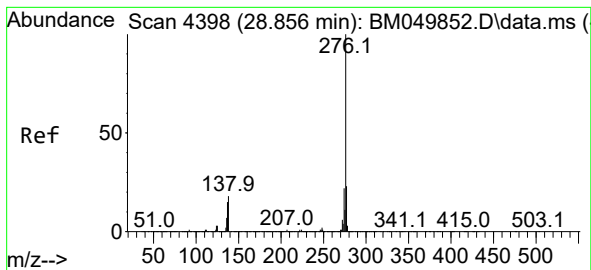
Delta R.T. -0.012 min

Lab File: BM049924.D

Acq: 14 Apr 2025 21:43

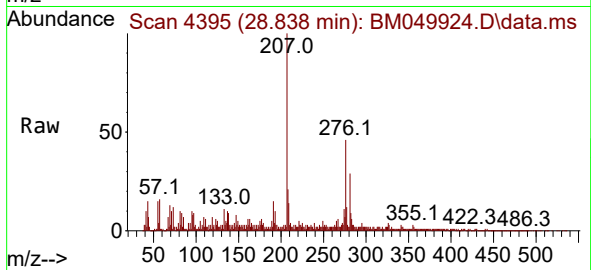
Tgt Ion:252 Resp: 495593
 Ion Ratio Lower Upper
 252 100
 253 26.0 17.8 26.8
 125 11.1 7.0 10.4





#92
Benzo(g,h,i)perylene
Concen: 2.357 ng
RT: 28.838 min Scan# 41
Delta R.T. -0.018 min
Lab File: BM049924.D
Acq: 14 Apr 2025 21:43

Instrument :
BNA_M
ClientSampleId :
SU-03-41125



Tgt Ion:276 Resp: 297684
Ion Ratio Lower Upper
276 100
277 26.3 18.7 28.1
138 20.0 14.6 21.8

Manual Integrations
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Reviewed By :Rahul Chavli 04/15/2025
Supervised By :Jagrut Upadhyay 04/15/2025

