

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041425\
 Data File : BM049923.D
 Acq On : 14 Apr 2025 21:04
 Operator : RC/JU
 Sample : Q1784-01 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 OR-01-41125

Manual Integrations
 APPROVED

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

Quant Time: Apr 15 01:04:41 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	407322	20.000	ng	-0.01
21) Naphthalene-d8	10.563	136	1300074	20.000	ng	#-0.01
39) Acenaphthene-d10	14.416	164	850227	20.000	ng	0.00
64) Phenanthrene-d10	17.157	188	1654315	20.000	ng	0.00
76) Chrysene-d12	21.392	240	1672698	20.000	ng	-0.01
86) Perylene-d12	24.391	264	1899381	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.357	112	332502	13.862	ng	0.00
7) Phenol-d6	6.946	99	392410	13.148	ng	0.00
23) Nitrobenzene-d5	8.928	82	234248	10.033	ng	0.00
42) 2,4,6-Tribromophenol	15.904	330	155466	12.571	ng	0.00
45) 2-Fluorobiphenyl	13.033	172	586050	9.347	ng	-0.01
79) Terphenyl-d14	19.780	244	793141	8.886	ng	-0.01
Target Compounds						Qvalue
37) 2-Methylnaphthalene	12.228	142	301620	6.408	ng	96
38) 1-Methylnaphthalene	12.451	142	233906	5.101	ng	# 97
49) Acenaphthylene	14.133	152	223494	3.089	ng	# 94
71) Phenanthrene	17.198	178	706663	7.792	ng	99
72) Anthracene	17.292	178	247254	2.766	ng	99
75) Fluoranthene	19.215	202	1030397	9.240	ng	99
78) Pyrene	19.580	202	1314141	11.400	ng	99
81) Benzo(a)anthracene	21.374	228	613839	5.522	ng	94
83) Chrysene	21.439	228	563934	5.336	ng	95
87) Indeno(1,2,3-cd)pyrene	27.774	276	383634	2.710	ng	98
88) Benzo(b)fluoranthene	23.450	252	665735	5.488	ng	# 93
89) Benzo(k)fluoranthene	23.503	252	253399m	2.156	ng	
90) Benzo(a)pyrene	24.250	252	580584	5.447	ng	# 95
92) Benzo(g,h,i)perylene	28.821	276	425129	3.567	ng	94

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

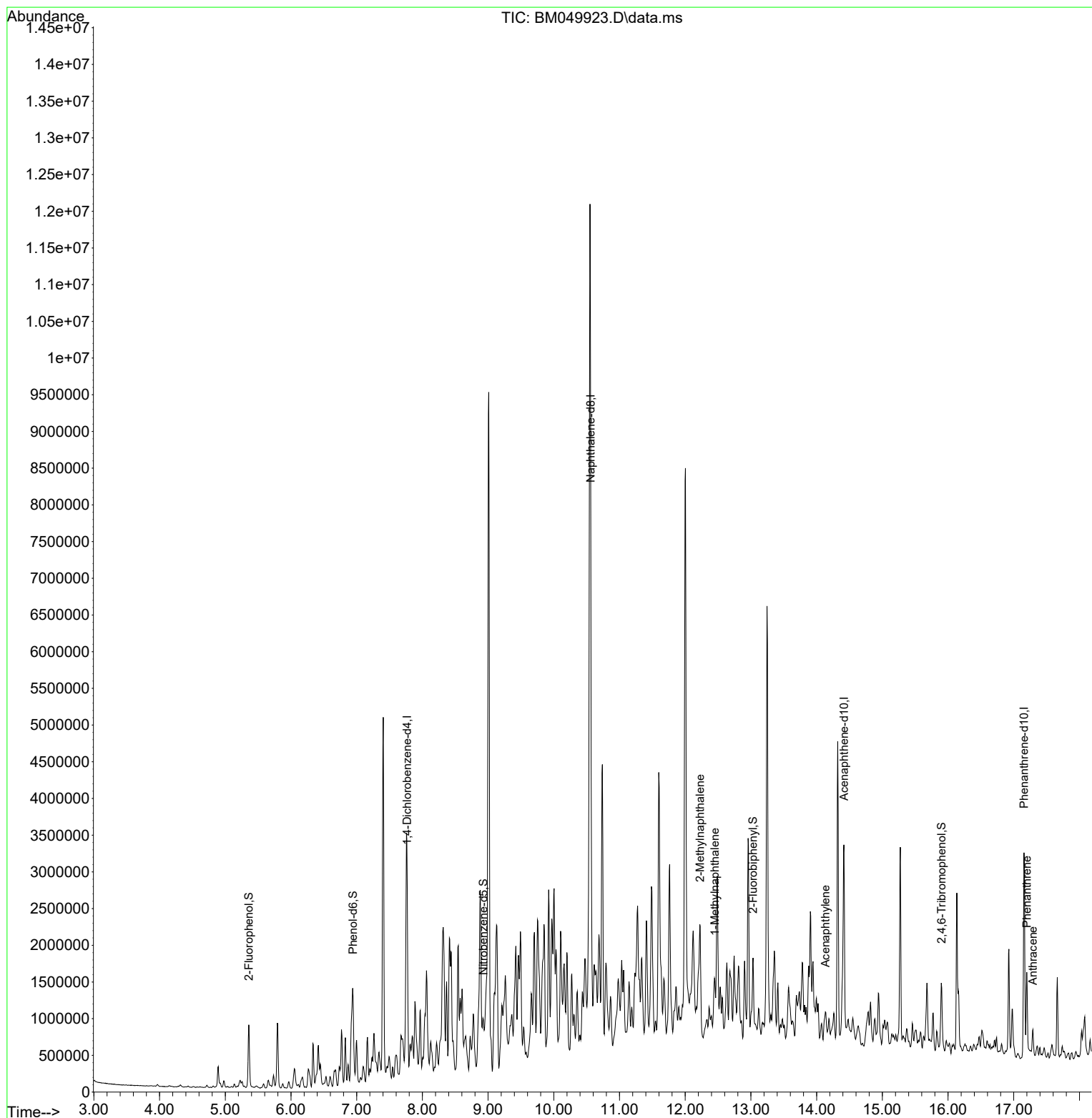
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Data File : BM049923.D
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ALS Vial : 15 Sample Multiplier: 1

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QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration



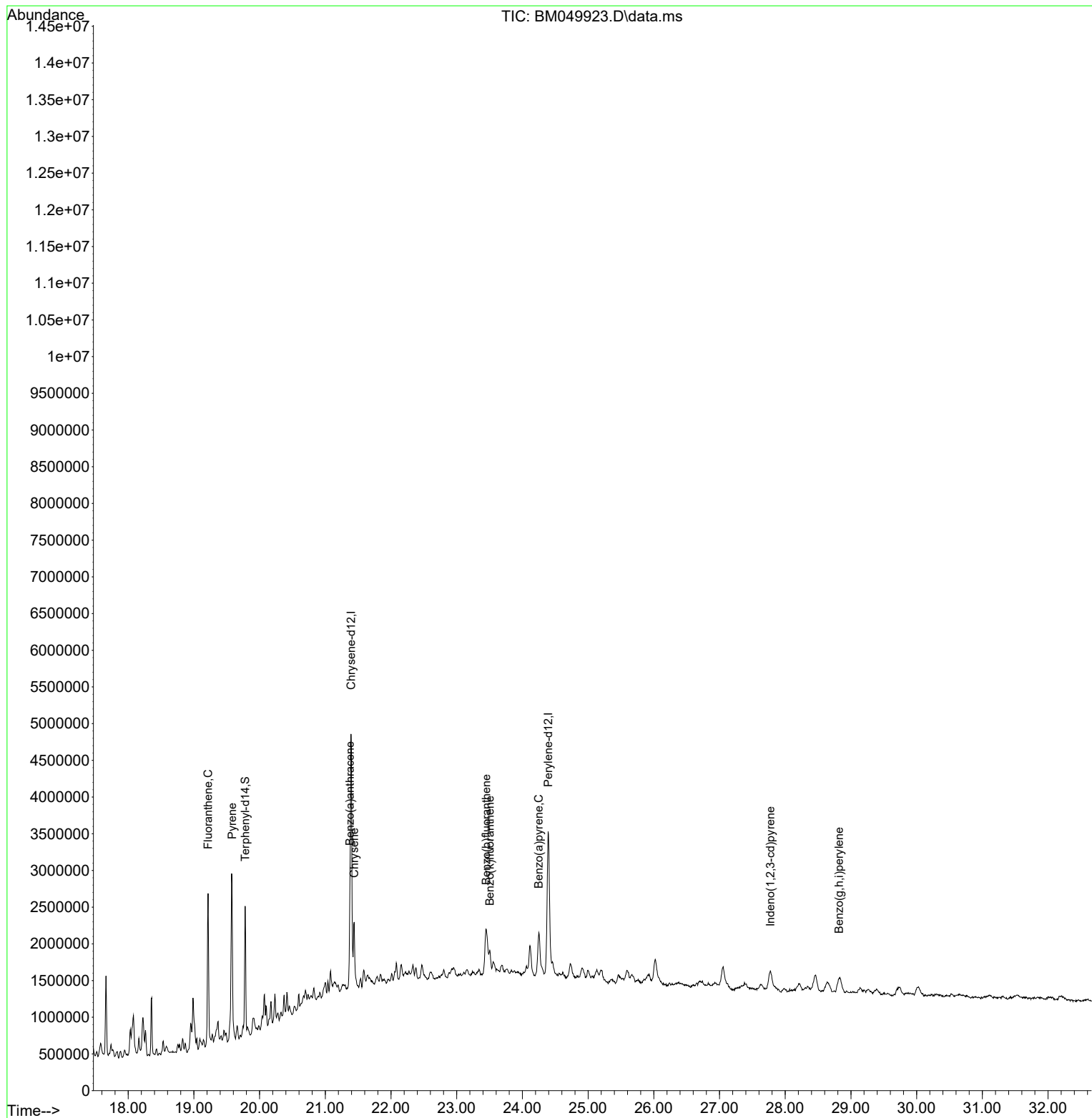
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Acq On : 14 Apr 2025 21:04
Operator : RC/JU
Sample : Q1784-01 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

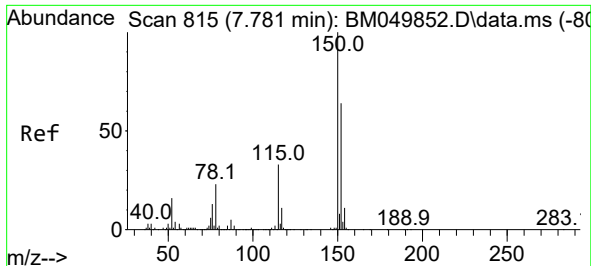
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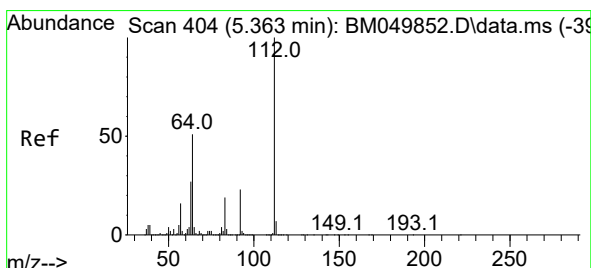
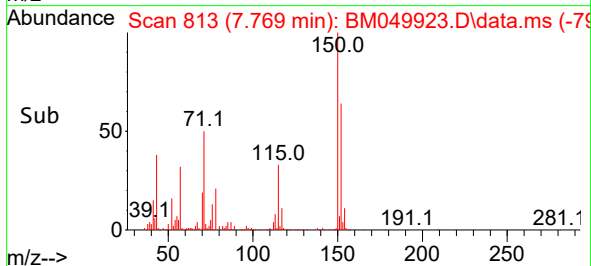
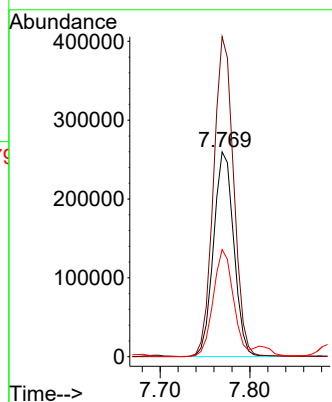
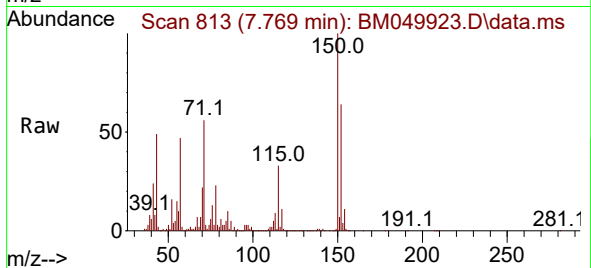
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.769 min Scan# 815
Delta R.T. -0.012 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

Instrument :
BNA_M
ClientSampleId :
OR-01-41125

Tgt Ion:152 Resp: 40732
Ion Ratio Lower Upper
152 100
150 156.2 124.3 186.5
115 52.3 41.1 61.7

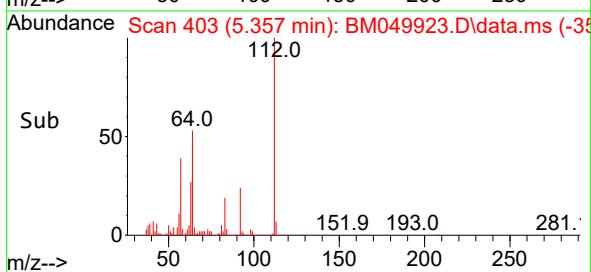
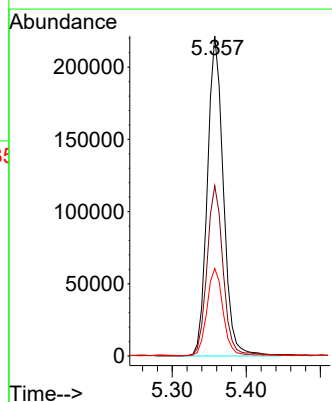
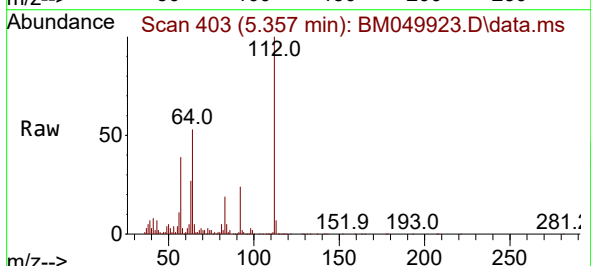
Manual Integrations
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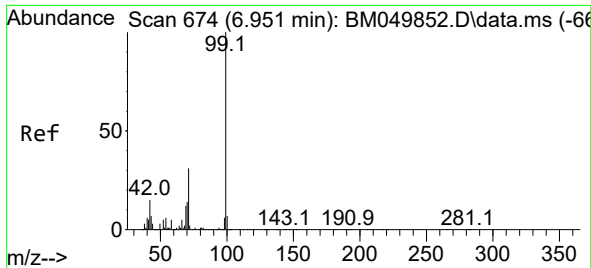
Reviewed By :Rahul Chavli 04/15/2025
Supervised By :Jagrut Upadhyay 04/15/2025



#5
2-Fluorophenol
Concen: 13.862 ng
RT: 5.357 min Scan# 403
Delta R.T. -0.006 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

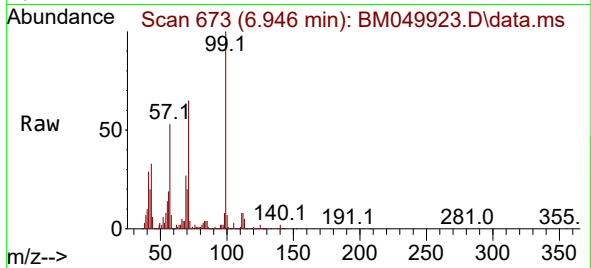
Tgt Ion:112 Resp: 332502
Ion Ratio Lower Upper
112 100
64 53.2 41.0 61.6
63 27.4 21.5 32.3





Phenol-d6
Concen: 13.148 ng
RT: 6.946 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

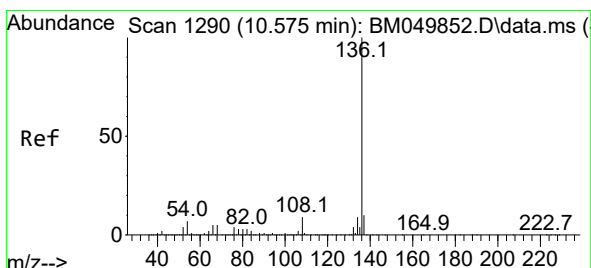
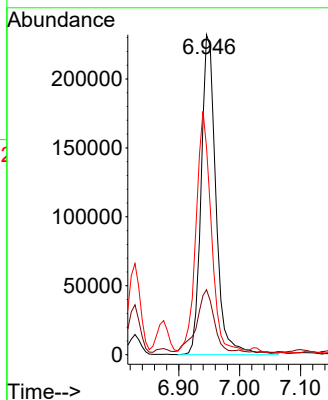
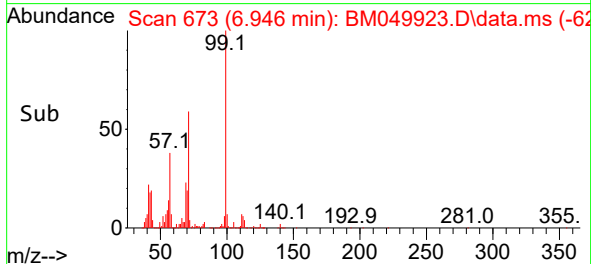
Instrument :
BNA_M
ClientSampleId :
OR-01-41125



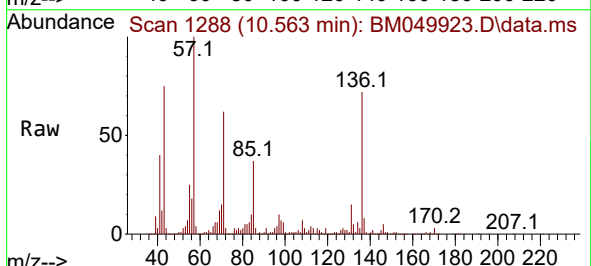
Tgt Ion: 99 Resp: 392410
Ion Ratio Lower Upper
99 100
42 20.3 12.1 18.1
71 64.9 24.9 37.3

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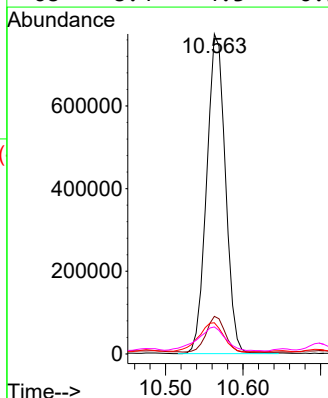
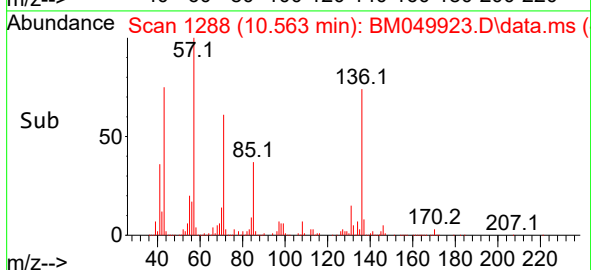
Reviewed By :Rahul Chavli 04/15/2025
Supervised By :Jagrut Upadhyay 04/15/2025

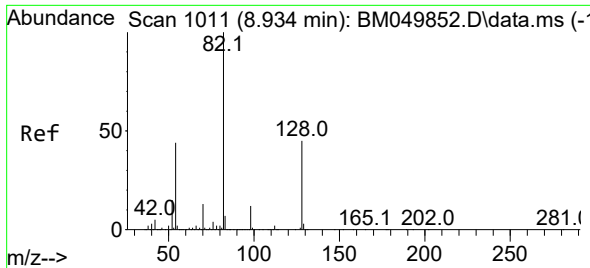


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.563 min Scan# 1288
Delta R.T. -0.012 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04



Tgt Ion:136 Resp: 1300074
Ion Ratio Lower Upper
136 100
137 11.8 8.4 12.6
54 9.8 5.3 7.9#
68 8.4 4.3 6.5#





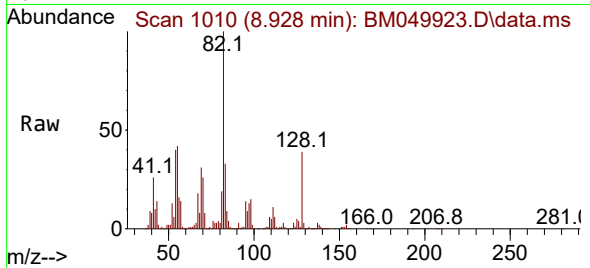
#23
Nitrobenzene-d5
Concen: 10.033 ng
RT: 8.928 min Scan# 1010
Delta R.T. -0.006 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

Instrument :

BNA_M

ClientSampleId :

OR-01-41125



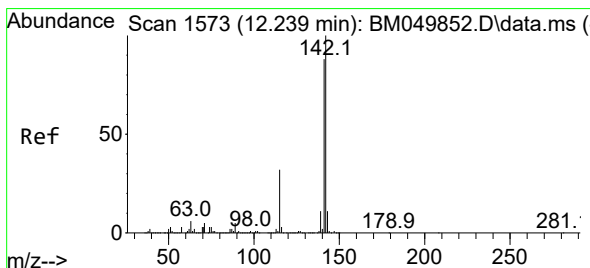
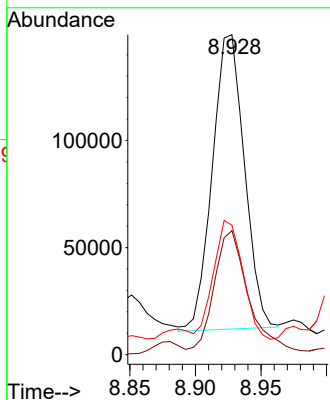
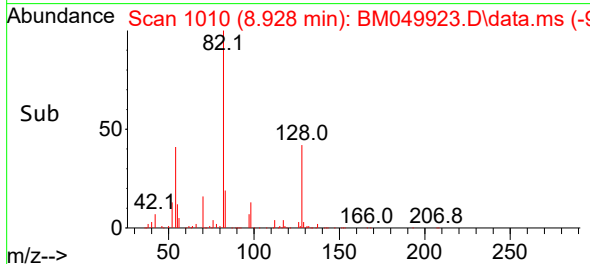
Tgt Ion: 82 Resp: 234248
Ion Ratio Lower Upper
82 100
128 38.8 36.2 54.2
54 40.4 35.0 52.6

Manual Integrations

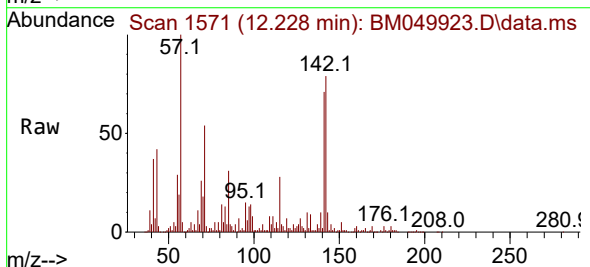
APPROVED

Reviewed By :Rahul Chavli 04/15/2025

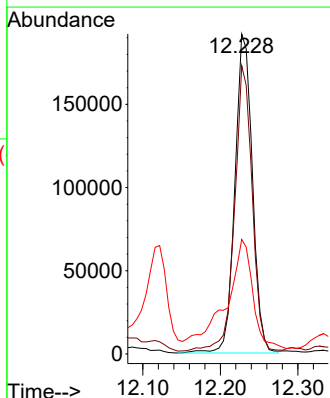
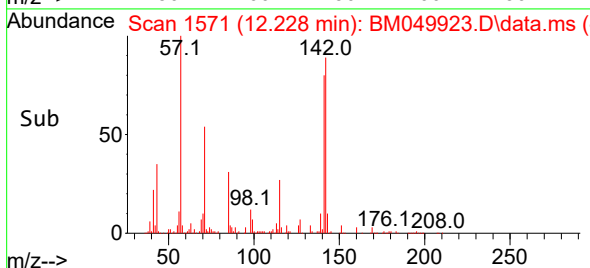
Supervised By :Jagrut Upadhyay 04/15/2025

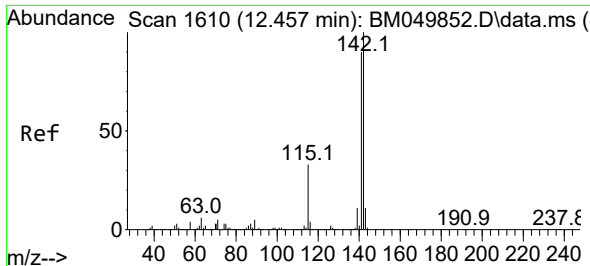


#37
2-Methylnaphthalene
Concen: 6.408 ng
RT: 12.228 min Scan# 1571
Delta R.T. -0.012 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04



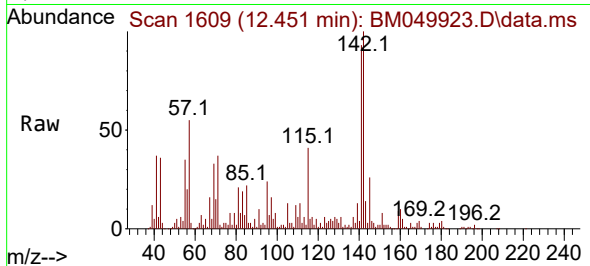
Tgt Ion:142 Resp: 301620
Ion Ratio Lower Upper
142 100
141 90.1 70.2 105.2
115 35.8 25.4 38.2





#38
1-Methylnaphthalene
Concen: 5.101 ng
RT: 12.451 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

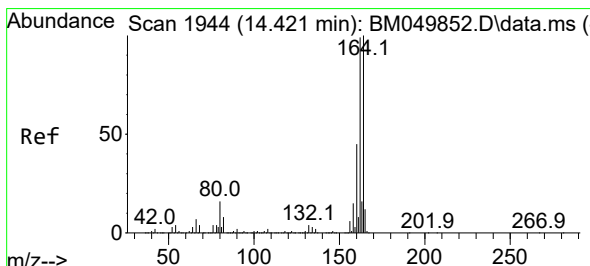
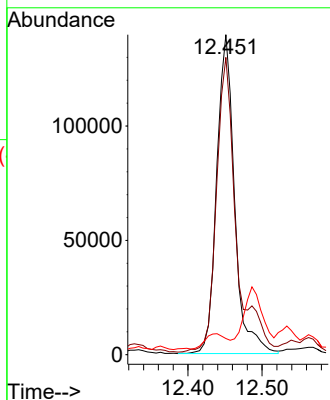
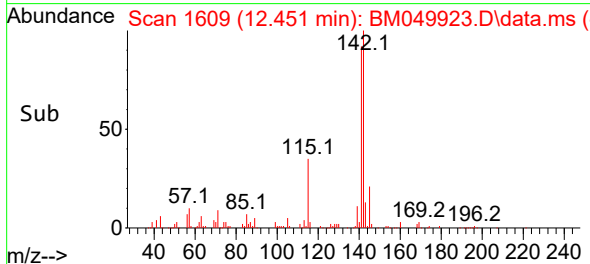
Instrument :
BNA_M
ClientSampleId :
OR-01-41125



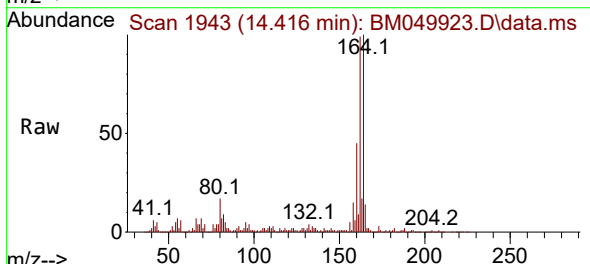
Tgt Ion:142 Resp: 233900
Ion Ratio Lower Upper
142 100
141 92.9 72.2 108.2
116 5.0 2.9 4.3

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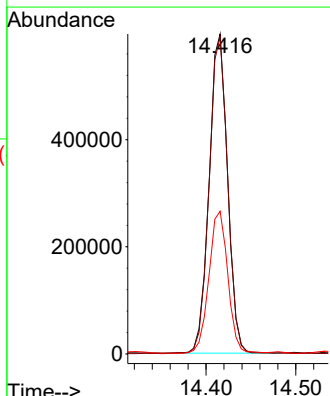
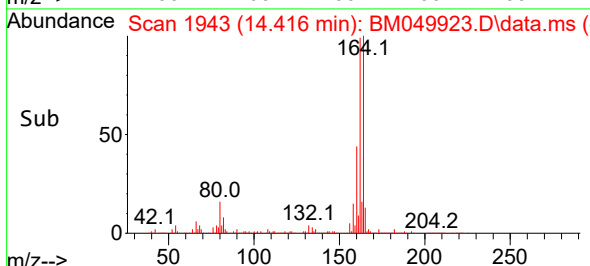
Reviewed By :Rahul Chavli 04/15/2025
Supervised By :Jagrut Upadhyay 04/15/2025

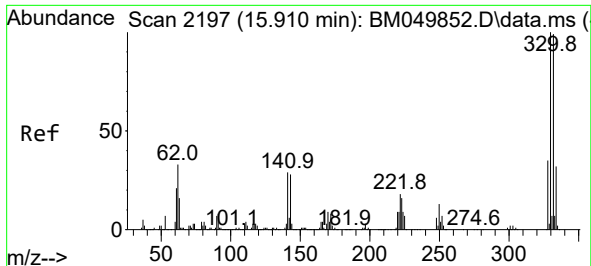


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.416 min Scan# 1943
Delta R.T. -0.006 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04



Tgt Ion:164 Resp: 850227
Ion Ratio Lower Upper
164 100
162 99.1 79.4 119.0
160 44.6 36.2 54.2





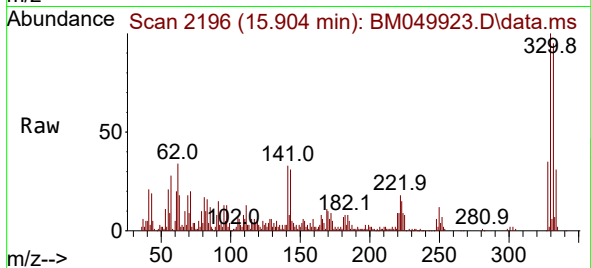
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2,4,6-Tribromophenol
Concen: 12.571 ng
RT: 15.904 min Scan# 2197
Delta R.T. -0.006 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

Instrument :

BNA_M

ClientSampleId :

OR-01-41125



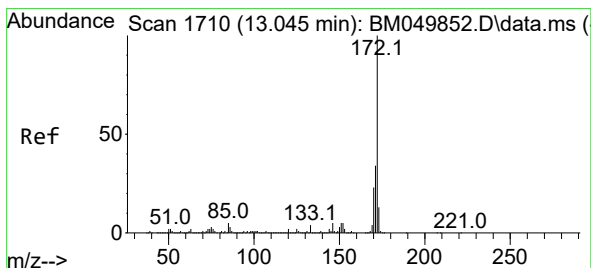
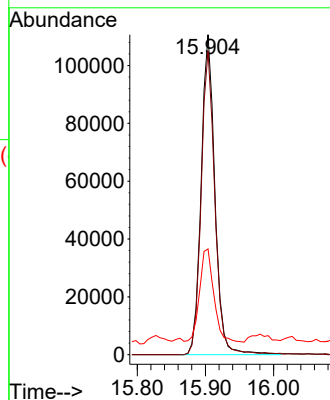
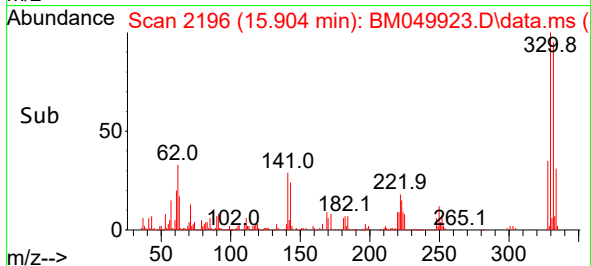
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Ion Ratio Lower Upper
330 100
332 93.9 78.0 117.0
141 30.1 23.5 35.3

Manual Integrations

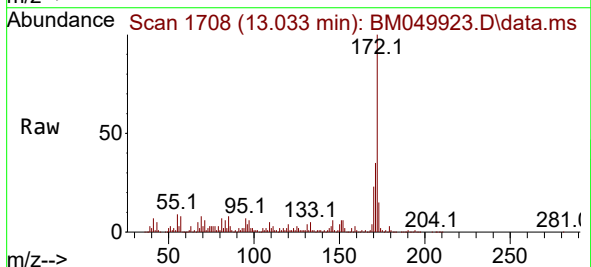
APPROVED

Reviewed By :Rahul Chavli 04/15/2025

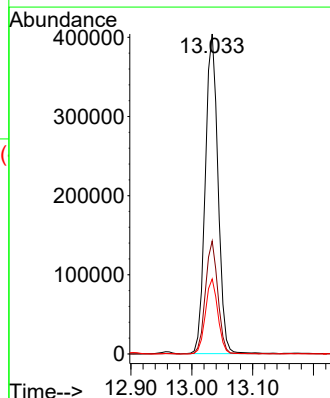
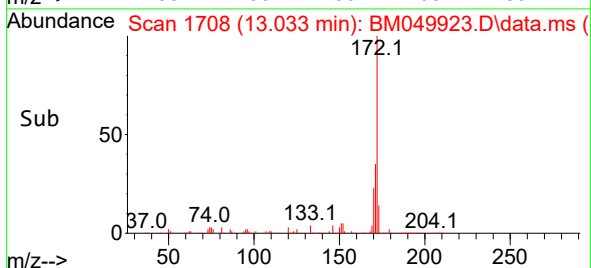
Supervised By :Jagrut Upadhyay 04/15/2025

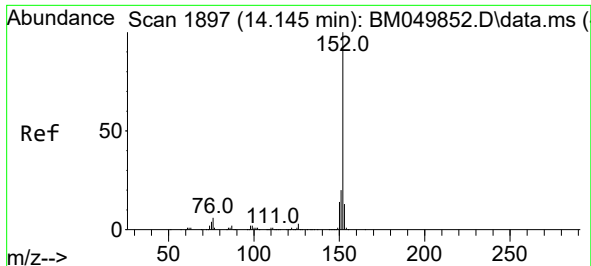


#45
2-Fluorobiphenyl
Concen: 9.347 ng
RT: 13.033 min Scan# 1708
Delta R.T. -0.012 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04



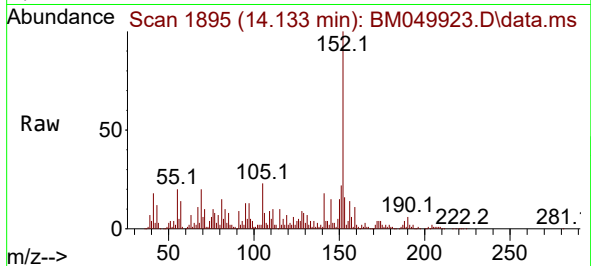
Tgt Ion:172 Resp: 586050
Ion Ratio Lower Upper
172 100
171 35.3 27.4 41.2
170 23.4 18.6 28.0





#49
Acenaphthylene
Concen: 3.089 ng
RT: 14.133 min Scan# 1895
Delta R.T. -0.012 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

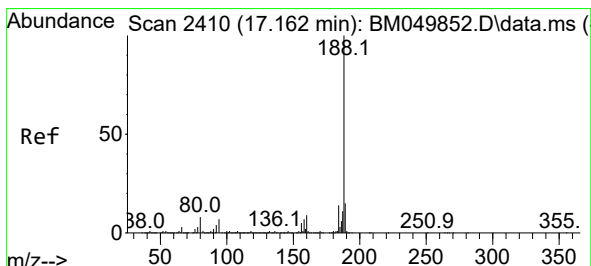
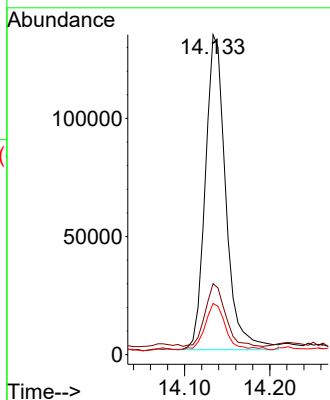
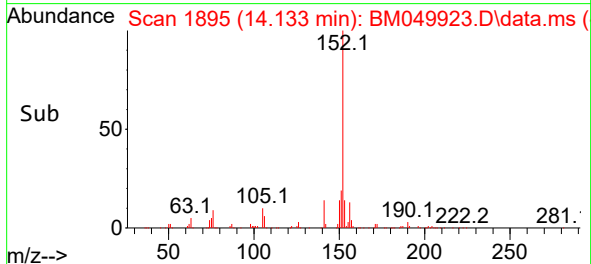
Instrument :
BNA_M
ClientSampleId :
OR-01-41125



Tgt Ion:152 Resp: 223494
Ion Ratio Lower Upper
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151 22.2 15.7 23.5
153 16.0 10.4 15.6

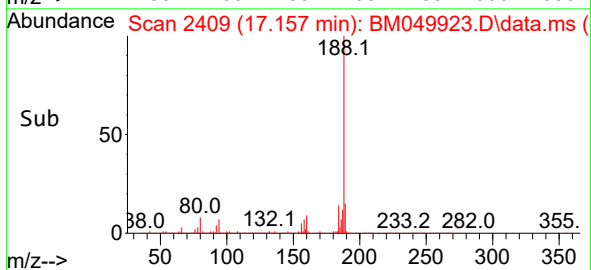
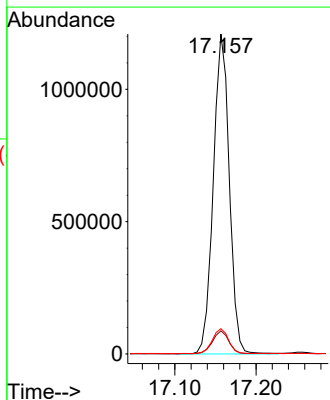
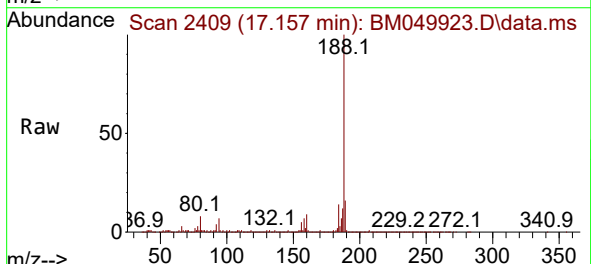
Manual Integrations
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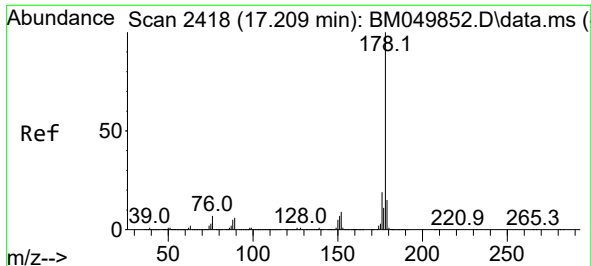
Reviewed By :Rahul Chavli 04/15/2025
Supervised By :Jagrut Upadhyay 04/15/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.157 min Scan# 2409
Delta R.T. -0.006 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

Tgt Ion:188 Resp: 1654315
Ion Ratio Lower Upper
188 100
94 7.2 5.8 8.6
80 7.9 6.4 9.6





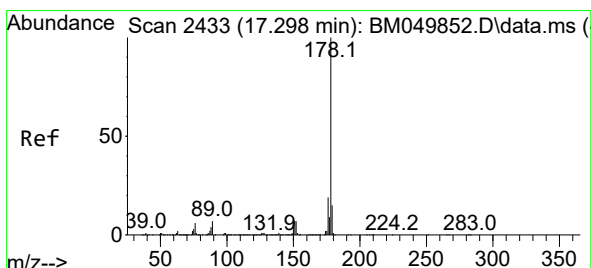
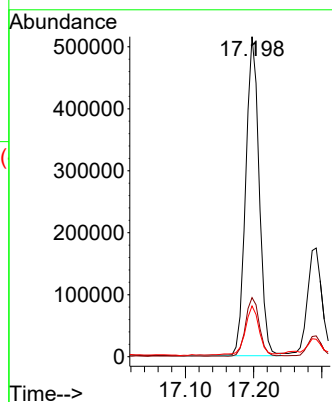
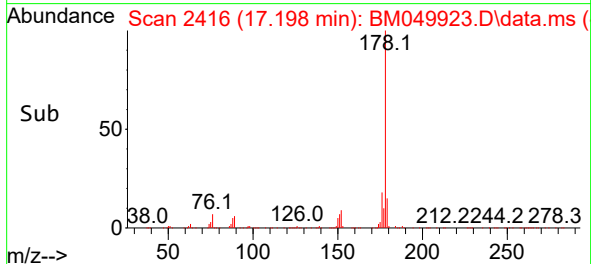
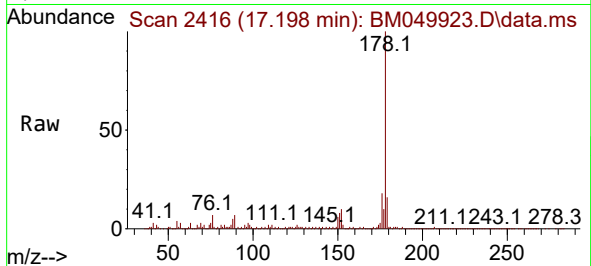
#71
Phenanthrene
Concen: 7.792 ng
RT: 17.198 min Scan# 2418
Delta R.T. -0.012 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

Instrument :
BNA_M
ClientSampleId :
OR-01-41125

Tgt Ion:178 Resp: 70666
Ion Ratio Lower Upper
178 100
176 18.5 15.4 23.2
179 15.8 12.3 18.5

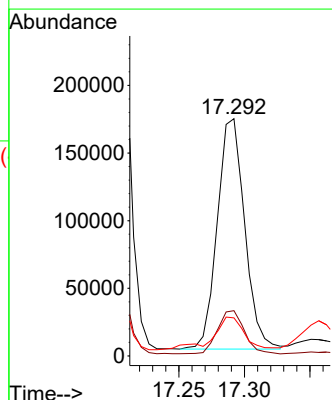
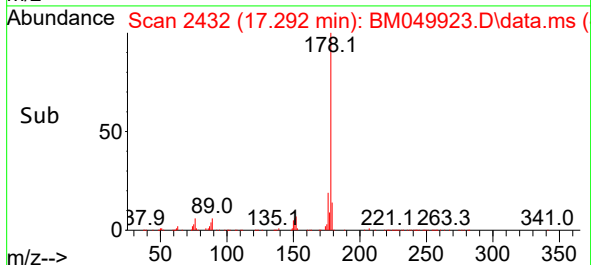
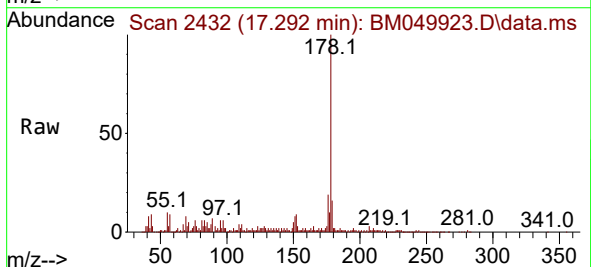
Manual Integrations
APPROVED

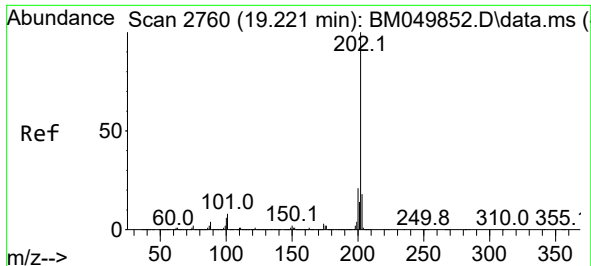
Reviewed By :Rahul Chavli 04/15/2025
Supervised By :Jagrut Upadhyay 04/15/2025



#72
Anthracene
Concen: 2.766 ng
RT: 17.292 min Scan# 2432
Delta R.T. -0.006 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

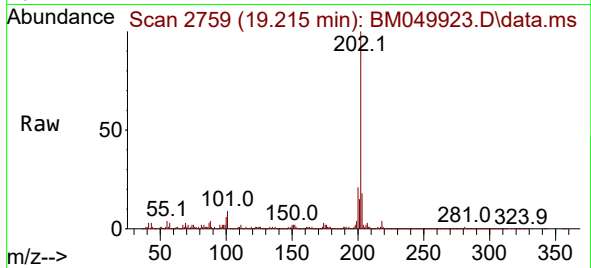
Tgt Ion:178 Resp: 247254
Ion Ratio Lower Upper
178 100
176 19.1 15.1 22.7
179 16.1 12.4 18.6





#75
Fluoranthene
Concen: 9.240 ng
RT: 19.215 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

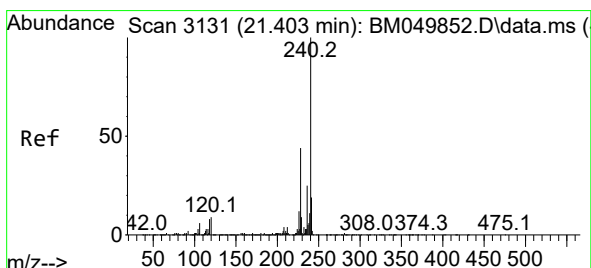
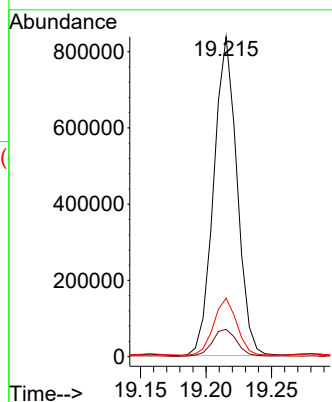
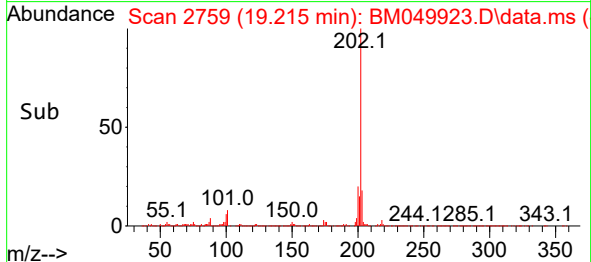
Instrument :
BNA_M
ClientSampleId :
OR-01-41125



Tgt Ion:202 Resp: 103039
Ion Ratio Lower Upper
202 100
101 8.6 0.0 28.4
203 18.3 0.0 37.8

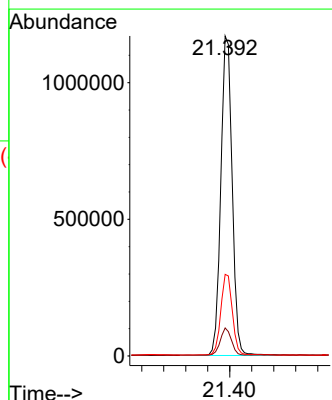
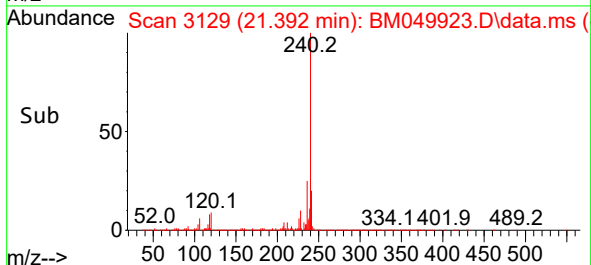
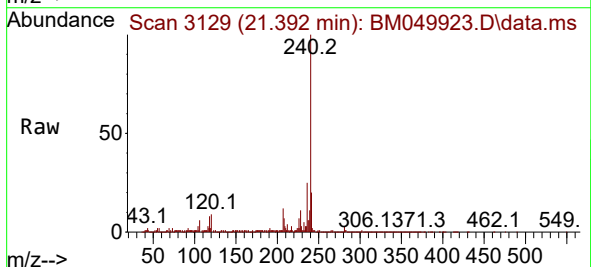
Manual Integrations
APPROVED

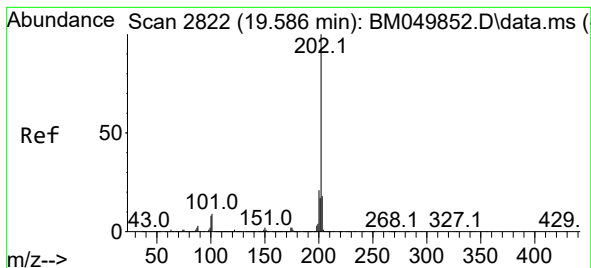
Reviewed By :Rahul Chavli 04/15/2025
Supervised By :Jagrut Upadhyay 04/15/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.392 min Scan# 3129
Delta R.T. -0.012 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

Tgt Ion:240 Resp: 1672698
Ion Ratio Lower Upper
240 100
120 8.7 6.9 10.3
236 25.5 20.4 30.6





#78

Pyrene

Concen: 11.400 ng

RT: 19.580 min Scan# 2822

Delta R.T. -0.006 min

Lab File: BM049923.D

Acq: 14 Apr 2025 21:04

Instrument :

BNA_M

ClientSampleId :

OR-01-41125

Tgt Ion:202 Resp: 131414

Ion Ratio Lower Upper

202 100

200 21.1 16.5 24.7

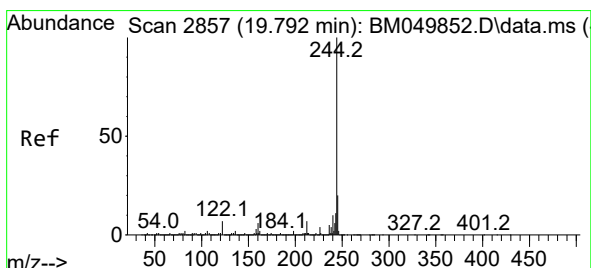
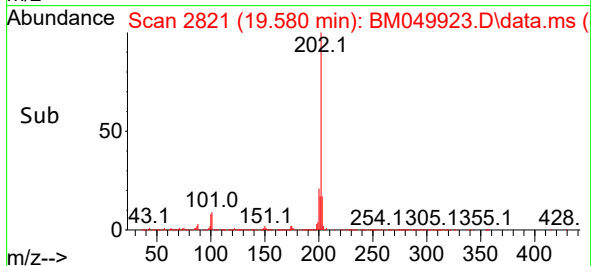
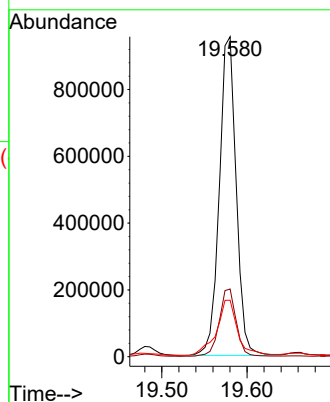
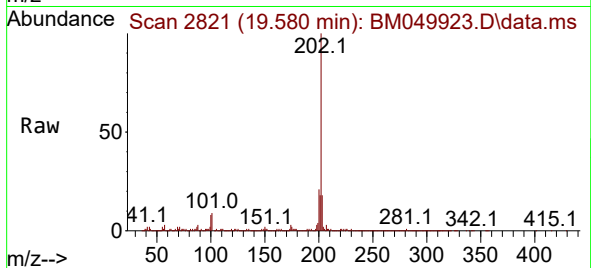
203 17.7 14.0 21.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/15/2025

Supervised By :Jagrut Upadhyay 04/15/2025



#79

Terphenyl-d14

Concen: 8.886 ng

RT: 19.780 min Scan# 2855

Delta R.T. -0.012 min

Lab File: BM049923.D

Acq: 14 Apr 2025 21:04

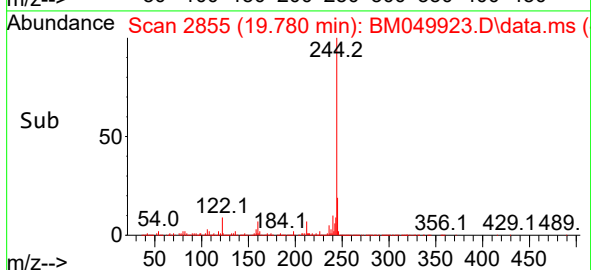
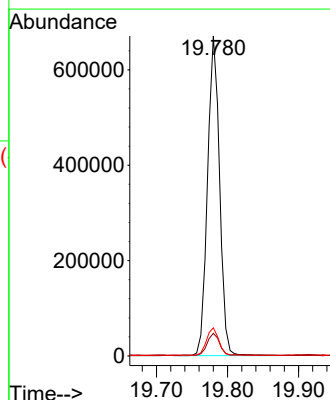
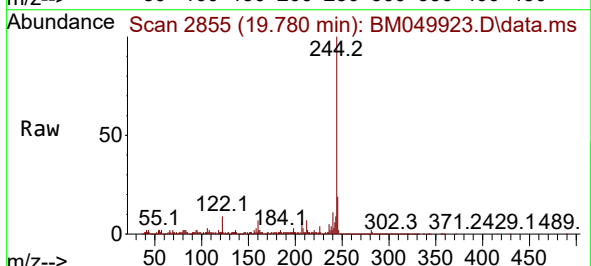
Tgt Ion:244 Resp: 793141

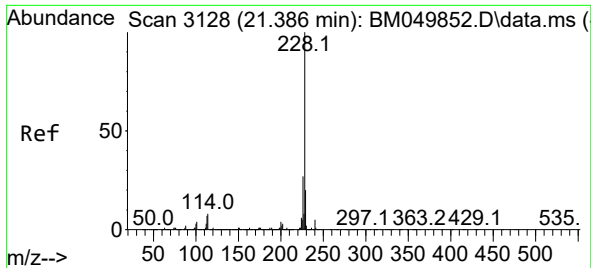
Ion Ratio Lower Upper

244 100

212 7.1 5.5 8.3

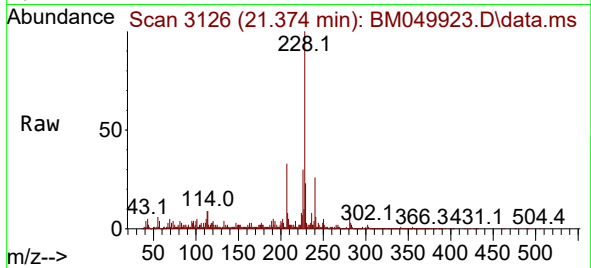
122 8.8 5.4 8.0#





#81
Benzo(a)anthracene
Concen: 5.522 ng
RT: 21.374 min Scan# 3128
Delta R.T. -0.012 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04

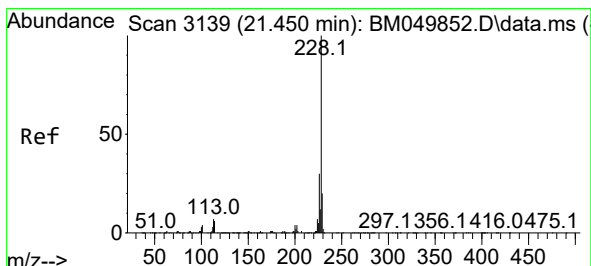
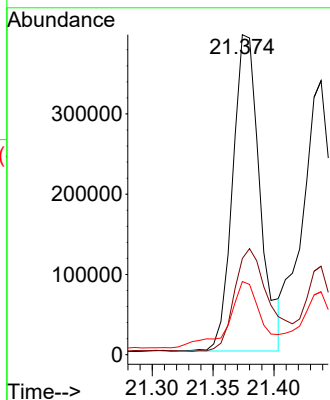
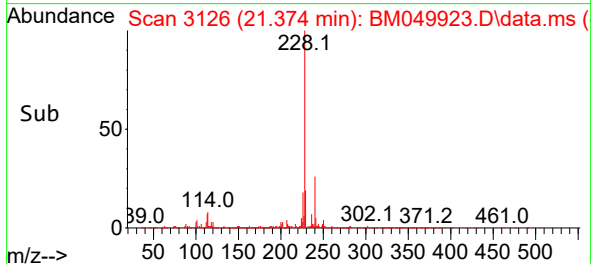
Instrument :
BNA_M
ClientSampleId :
OR-01-41125



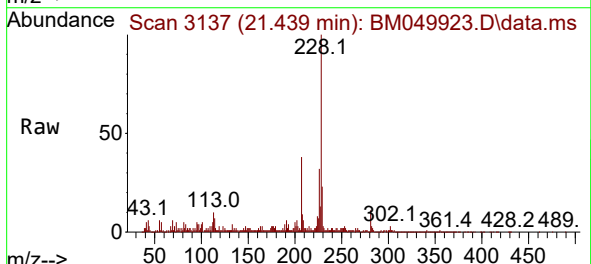
Tgt Ion:228 Resp: 613839
Ion Ratio Lower Upper
228 100
226 30.0 21.8 32.8
229 22.8 15.8 23.8

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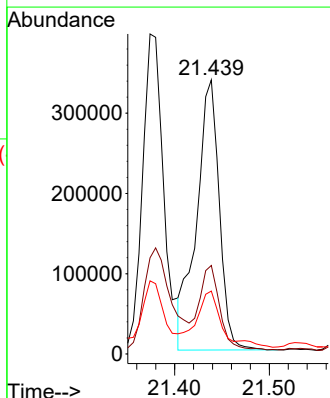
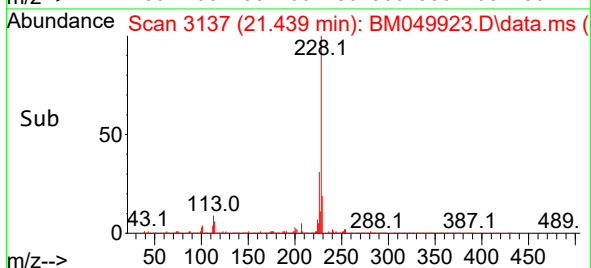
Reviewed By :Rahul Chavli 04/15/2025
Supervised By :Jagrut Upadhyay 04/15/2025

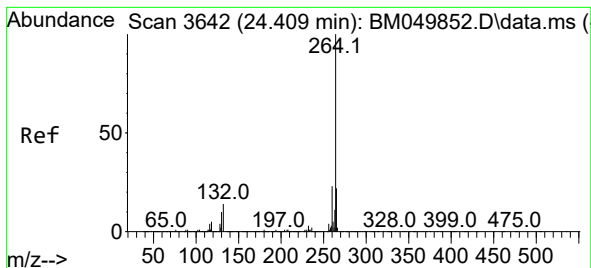


#83
Chrysene
Concen: 5.336 ng
RT: 21.439 min Scan# 3137
Delta R.T. -0.012 min
Lab File: BM049923.D
Acq: 14 Apr 2025 21:04



Tgt Ion:228 Resp: 563934
Ion Ratio Lower Upper
228 100
226 32.3 24.1 36.1
229 23.0 15.8 23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.391 min Scan# 3

Delta R.T. -0.018 min

Lab File: BM049923.D

Acq: 14 Apr 2025 21:04

Instrument :

BNA_M

ClientSampleId :

OR-01-41125

Tgt Ion:264 Resp: 189938

Ion Ratio Lower Upper

264 100

260 23.8 18.6 28.0

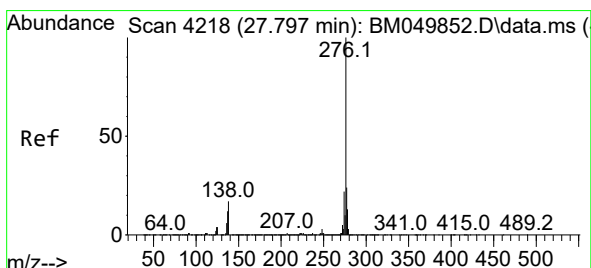
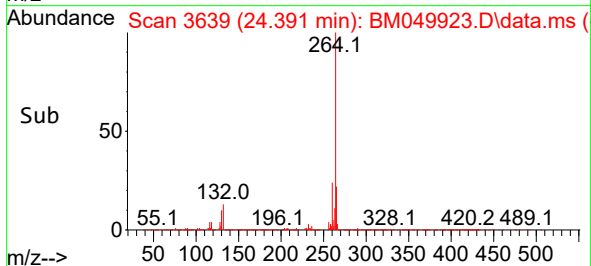
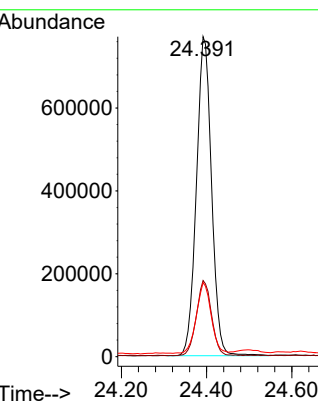
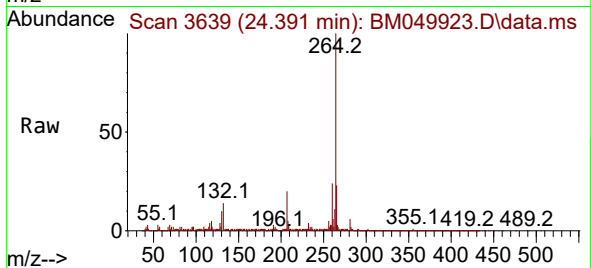
265 23.1 17.8 26.8

Manual Integrations

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Reviewed By :Rahul Chavli 04/15/2025

Supervised By :Jagrut Upadhyay 04/15/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.710 ng

RT: 27.774 min Scan# 4214

Delta R.T. -0.023 min

Lab File: BM049923.D

Acq: 14 Apr 2025 21:04

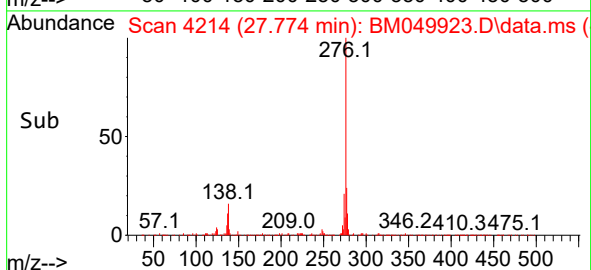
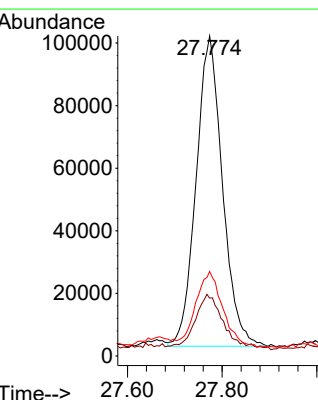
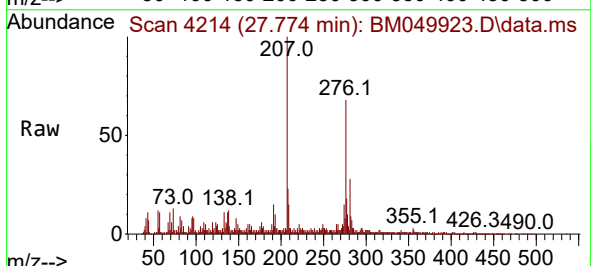
Tgt Ion:276 Resp: 383634

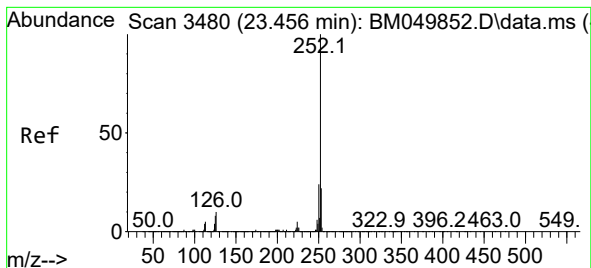
Ion Ratio Lower Upper

276 100

138 18.9 16.8 25.2

277 25.2 20.1 30.1





#88

Benzo(b)fluoranthene

Concen: 5.488 ng

RT: 23.450 min Scan# 34

Delta R.T. -0.006 min

Lab File: BM049923.D

Acq: 14 Apr 2025 21:04

Instrument :

BNA_M

ClientSampleId :

OR-01-41125

Tgt Ion:252 Resp: 66573

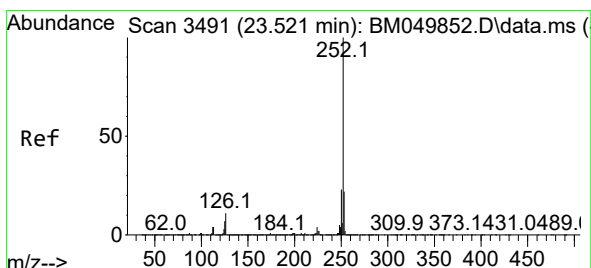
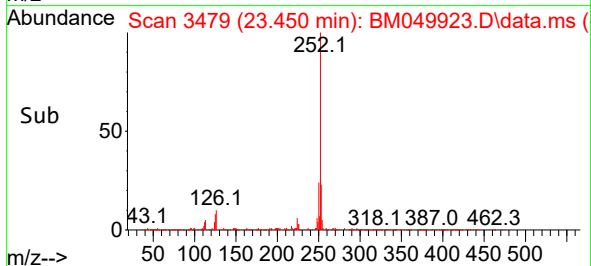
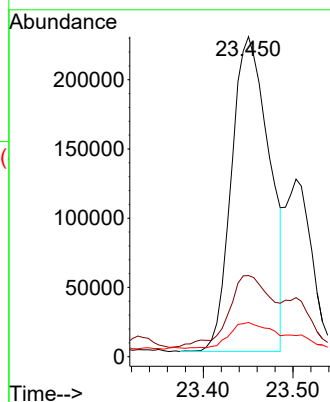
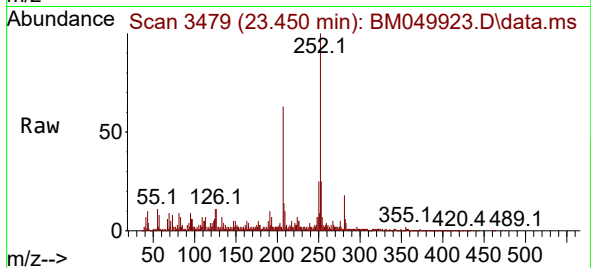
Ion	Ratio	Lower	Upper
252	100		
253	25.3	17.5	26.3
125	10.7	6.2	9.4

Manual Integrations

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Reviewed By :Rahul Chavli 04/15/2025

Supervised By :Jagrut Upadhyay 04/15/2025



#89

Benzo(k)fluoranthene

Concen: 2.156 ng m

RT: 23.503 min Scan# 3488

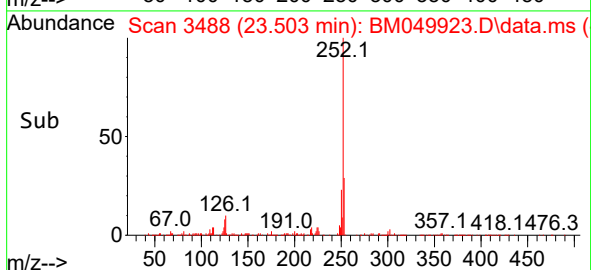
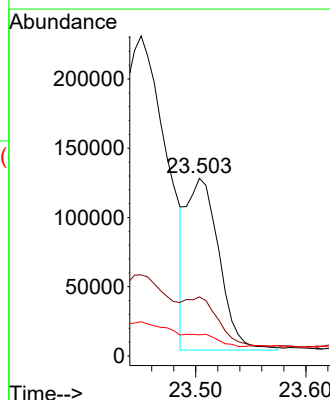
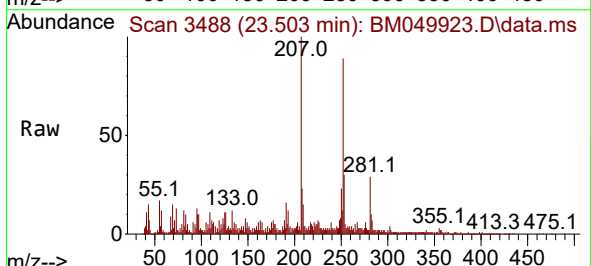
Delta R.T. -0.018 min

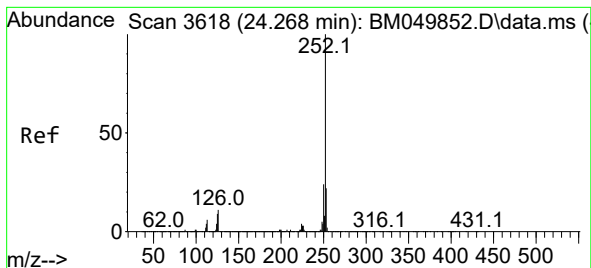
Lab File: BM049923.D

Acq: 14 Apr 2025 21:04

Tgt Ion:252 Resp: 253399

Ion	Ratio	Lower	Upper
252	100		
253	33.3	17.4	26.2#
125	11.9	5.8	8.8#





#90

Benzo(a)pyrene

Concen: 5.447 ng

RT: 24.250 min Scan# 30

Delta R.T. -0.018 min

Lab File: BM049923.D

Acq: 14 Apr 2025 21:04

Instrument :

BNA_M

ClientSampleId :

OR-01-41125

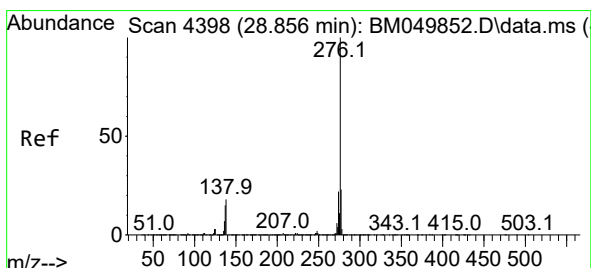
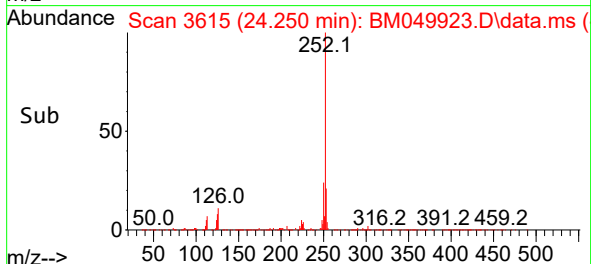
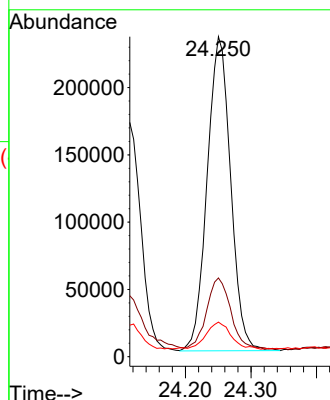
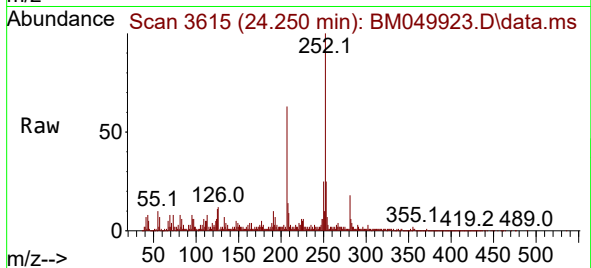
Tgt Ion:252 Resp: 580584
 Ion Ratio Lower Upper
 252 100
 253 24.6 17.8 26.8
 125 10.8 7.0 10.4

Manual Integrations

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Reviewed By :Rahul Chavli 04/15/2025

Supervised By :Jagrut Upadhyay 04/15/2025



#92

Benzo(g,h,i)perylene

Concen: 3.567 ng

RT: 28.821 min Scan# 4392

Delta R.T. -0.035 min

Lab File: BM049923.D

Acq: 14 Apr 2025 21:04

Tgt Ion:276 Resp: 425129
 Ion Ratio Lower Upper
 276 100
 277 26.2 18.7 28.1
 138 20.6 14.6 21.8

