

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040425\
 Data File : BM049824.D
 Acq On : 04 Apr 2025 15:22
 Operator : RC/JU
 Sample : Q1684-01DL 25X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SU-04-040125DL

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 04/07/2025
 Supervised By :Jagrut Upadhyay 04/07/2025

Quant Time: Apr 04 15:56:41 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 13 14:55:34 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.787	152	262698	20.000	ng	-0.02
21) Naphthalene-d8	10.580	136	939326	20.000	ng	-0.02
39) Acenaphthene-d10	14.427	164	627564	20.000	ng	-0.02
64) Phenanthrene-d10	17.168	188	1314619	20.000	ng	-0.02
76) Chrysene-d12	21.403	240	1413104	20.000	ng	-0.02
86) Perylene-d12	24.409	264	1440656	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.369	112	65670	4.218	ng	-0.02
7) Phenol-d6	6.957	99	80808	4.136	ng	-0.02
23) Nitrobenzene-d5	8.939	82	48592	2.656	ng	-0.02
42) 2,4,6-Tribromophenol	15.915	330	31952	4.360	ng	-0.02
45) 2-Fluorobiphenyl	13.045	172	129715	2.589	ng	-0.02
79) Terphenyl-d14	19.792	244	212292	2.532	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	10.628	128	502345	10.400	ng	99
37) 2-Methylnaphthalene	12.245	142	125427	3.714	ng	99
38) 1-Methylnaphthalene	12.463	142	75317	2.311	ng	97
52) Acenaphthene	14.492	154	208457	6.039	ng	99
55) Dibenzofuran	14.827	168	303412	5.275	ng	98
58) Fluorene	15.474	166	408301	8.719	ng	99
71) Phenanthrene	17.209	178	3126970	42.837	ng	100
72) Anthracene	17.304	178	916143	12.959	ng	99
73) Carbazole	17.568	167	246341	3.848	ng	99
75) Fluoranthene	19.227	202	4730200	56.284	ng	100
78) Pyrene	19.592	202	3960811	40.119	ng	99
81) Benzo(a)anthracene	21.386	228	2077048	22.006	ng	99
83) Chrysene	21.450	228	1557357	17.406	ng	98
87) Indeno(1,2,3-cd)pyrene	27.785	276	1091411	10.526	ng	98
88) Benzo(b)fluoranthene	23.462	252	2295675	23.659	ng	98
89) Benzo(k)fluoranthene	23.515	252	756051m	7.918	ng	
90) Benzo(a)pyrene	24.268	252	1747321	21.438	ng	98
91) Dibenzo(a,h)anthracene	27.815	278	272544	3.155	ng	93
92) Benzo(g,h,i)perylene	28.838	276	999695	11.488	ng	99

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

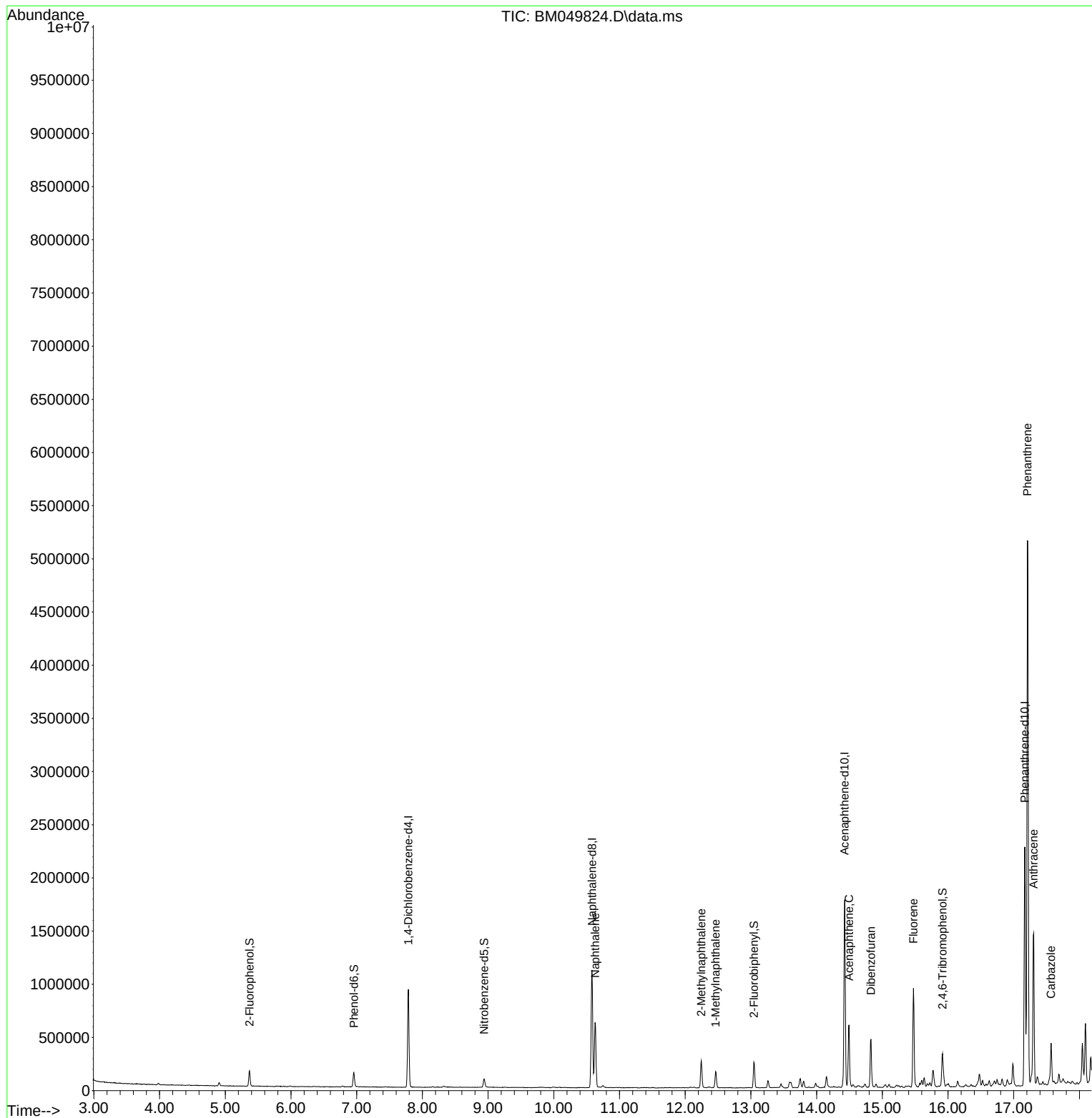
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040425\
Data File : BM049824.D
Acq On : 04 Apr 2025 15:22
Operator : RC/JU
Sample : Q1684-01DL 25X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
SU-04-040125DL

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

Quant Time: Apr 04 15:56:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 13 14:55:34 2025
Response via : Initial Calibration



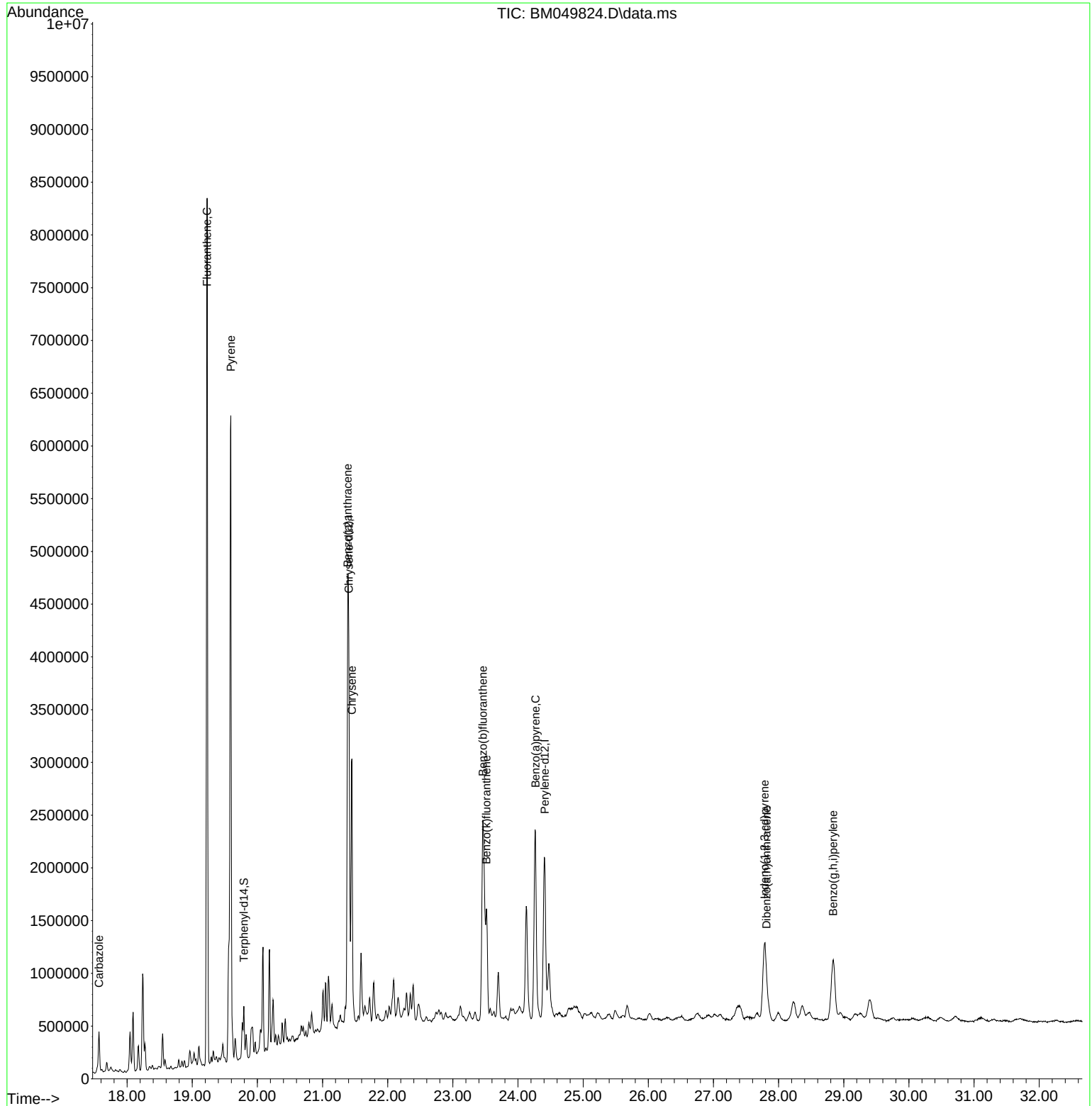
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040425\
Data File : BM049824.D
Acq On : 04 Apr 2025 15:22
Operator : RC/JU
Sample : Q1684-01DL 25X
Misc :
ALS Vial : 9 Sample Multiplier: 1

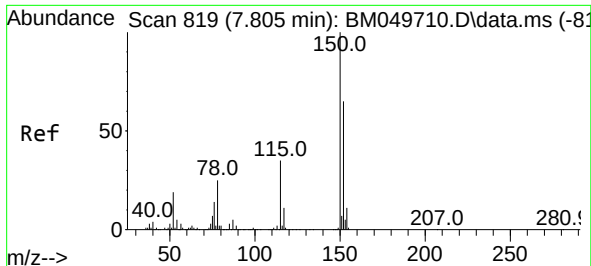
Instrument :
BNA_M
ClientSampleId :
SU-04-040125DL

Quant Time: Apr 04 15:56:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 13 14:55:34 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

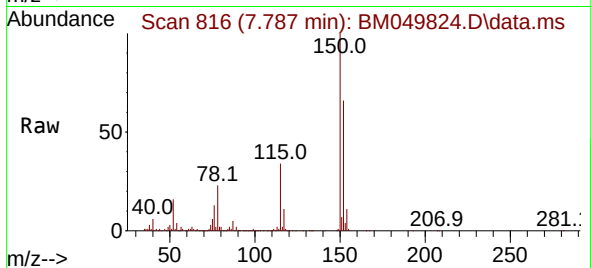
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.787 min Scan# 819
Delta R.T. -0.018 min
Lab File: BM049824.D
Acq: 04 Apr 2025 15:22

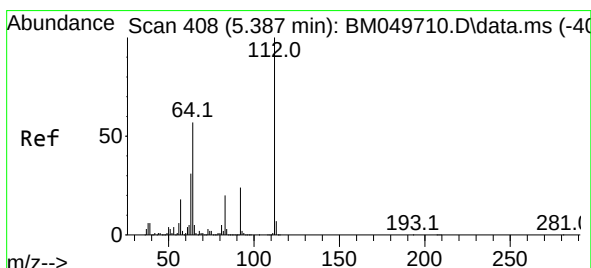
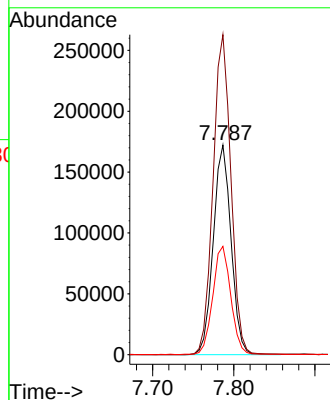
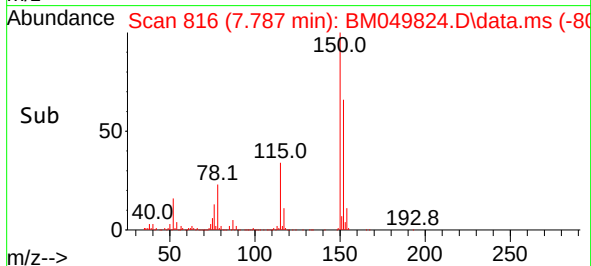
Instrument :
BNA_M
ClientSampleId :
SU-04-040125DL



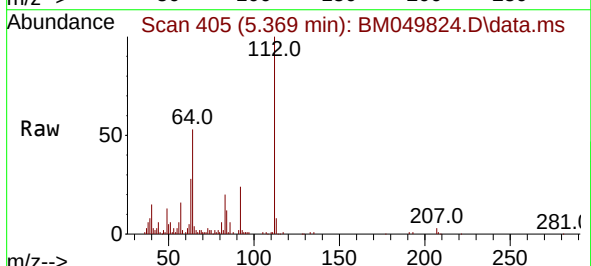
Tgt Ion:152 Resp: 262698
Ion Ratio Lower Upper
152 100
150 152.7 123.8 185.8
115 51.7 43.0 64.6

Manual Integrations
APPROVED

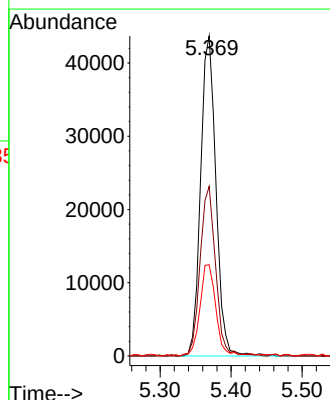
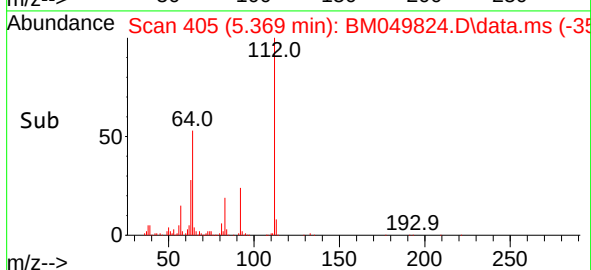
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

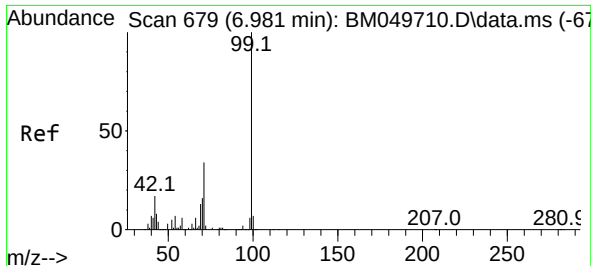


#5
2-Fluorophenol
Concen: 4.218 ng
RT: 5.369 min Scan# 405
Delta R.T. -0.018 min
Lab File: BM049824.D
Acq: 04 Apr 2025 15:22



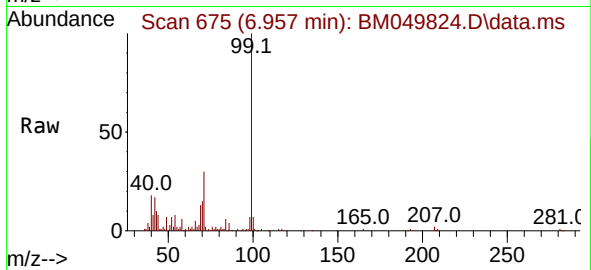
Tgt Ion:112 Resp: 65670
Ion Ratio Lower Upper
112 100
64 53.0 45.3 67.9
63 28.5 24.4 36.6





#7
Phenol-d6
Concen: 4.136 ng
RT: 6.957 min Scan# 61
Delta R.T. -0.024 min
Lab File: BM049824.D
Acq: 04 Apr 2025 15:22

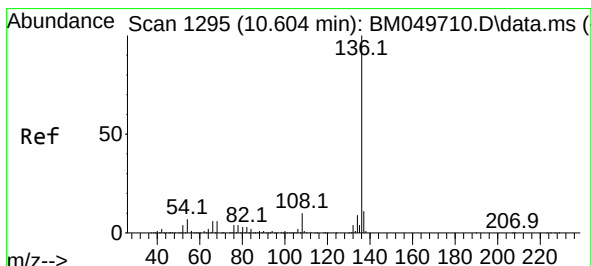
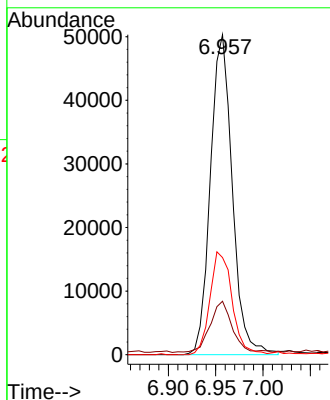
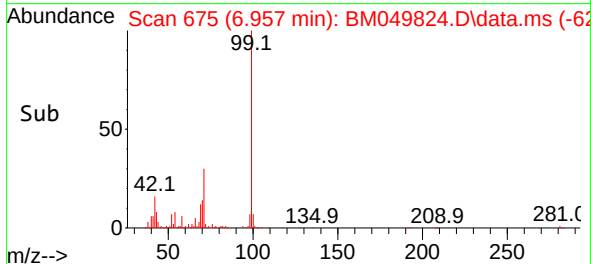
Instrument :
BNA_M
ClientSampleId :
SU-04-040125DL



Tgt Ion: 99 Resp: 80808
Ion Ratio Lower Upper
99 100
42 16.7 13.6 20.4
71 30.4 27.0 40.6

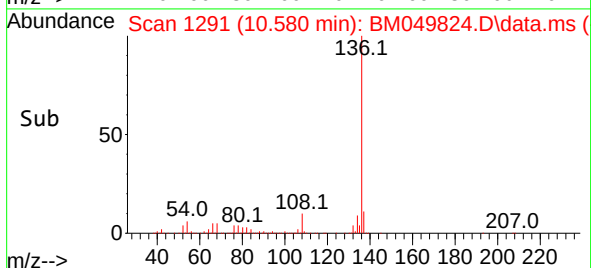
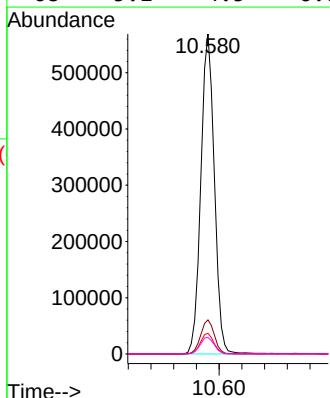
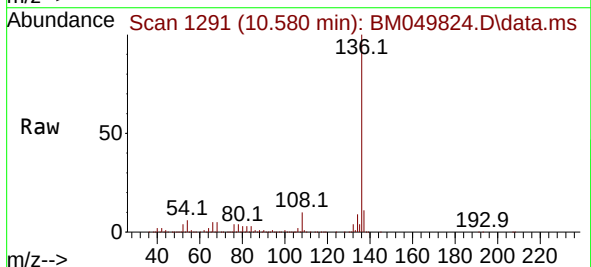
Manual Integrations
APPROVED

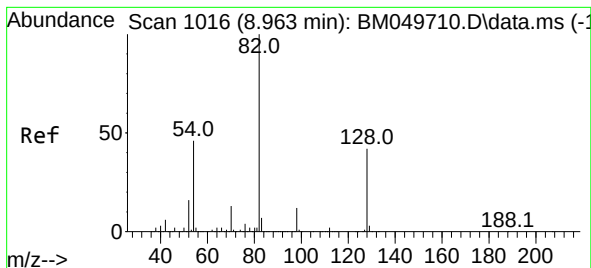
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.580 min Scan# 1291
Delta R.T. -0.024 min
Lab File: BM049824.D
Acq: 04 Apr 2025 15:22

Tgt Ion:136 Resp: 939326
Ion Ratio Lower Upper
136 100
137 10.7 8.6 12.8
54 6.5 5.8 8.8
68 5.1 4.5 6.7





#23

Nitrobenzene-d5

Concen: 2.656 ng

RT: 8.939 min Scan# 1016

Delta R.T. -0.024 min

Lab File: BM049824.D

Acq: 04 Apr 2025 15:22

Instrument :

BNA_M

ClientSampleId :

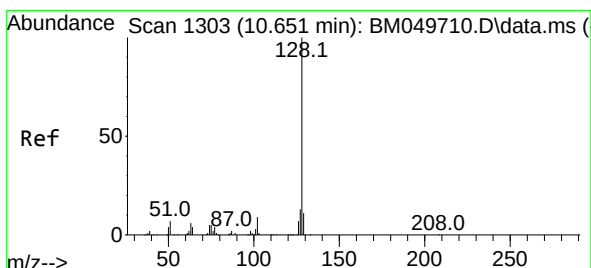
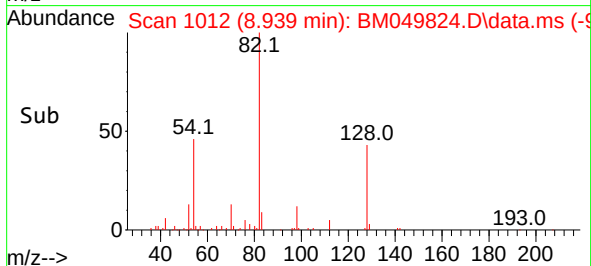
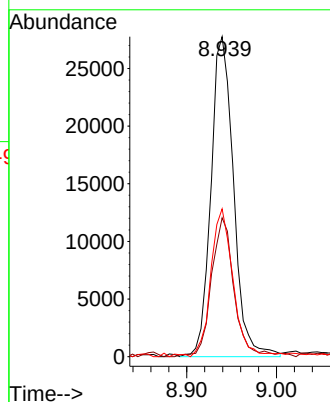
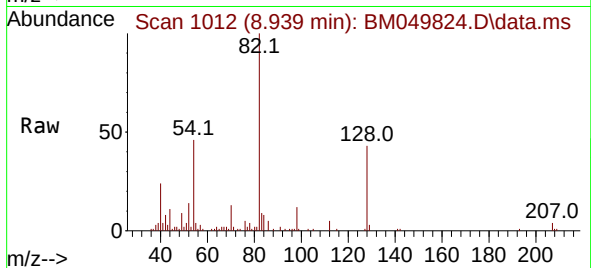
SU-04-040125DL

Tgt Ion:	82	Resp:	48592
Ion Ratio	Lower	Upper	
82	100		
128	43.4	33.4	50.0
54	46.2	36.4	54.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025



#31

Naphthalene

Concen: 10.400 ng

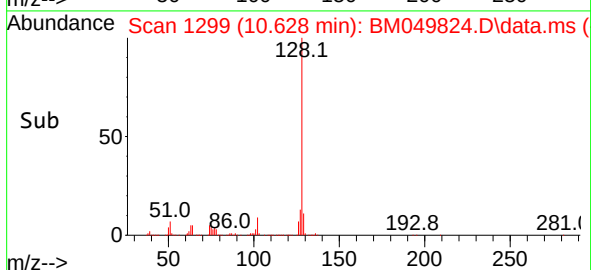
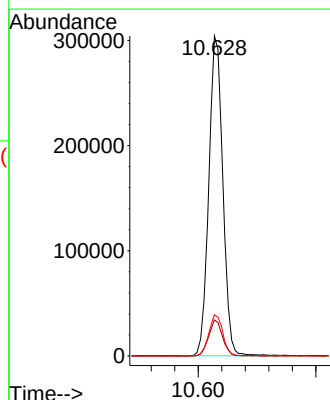
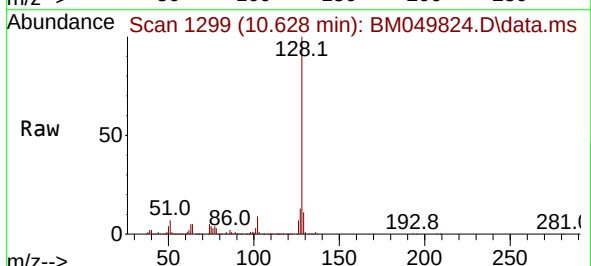
RT: 10.628 min Scan# 1299

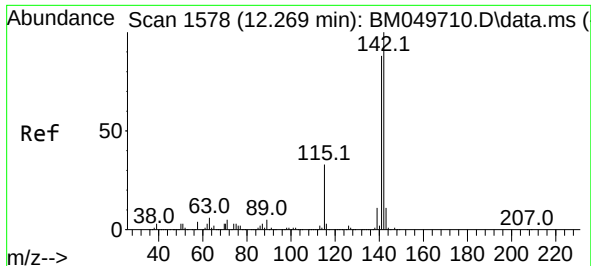
Delta R.T. -0.024 min

Lab File: BM049824.D

Acq: 04 Apr 2025 15:22

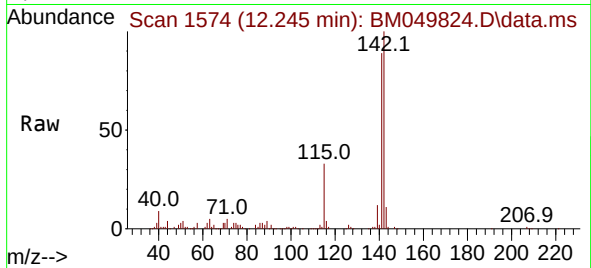
Tgt Ion:	128	Resp:	502345
Ion Ratio	Lower	Upper	
128	100		
129	11.2	8.6	13.0
127	12.9	10.4	15.6





#37
2-Methylnaphthalene
Concen: 3.714 ng
RT: 12.245 min Scan# 11
Delta R.T. -0.024 min
Lab File: BM049824.D
Acq: 04 Apr 2025 15:22

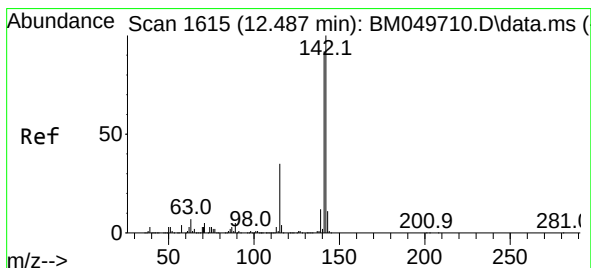
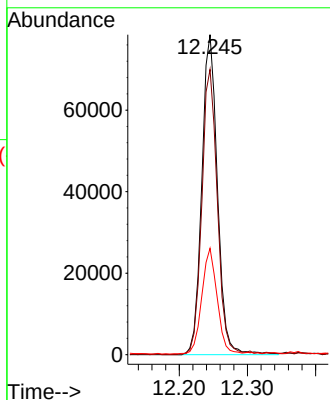
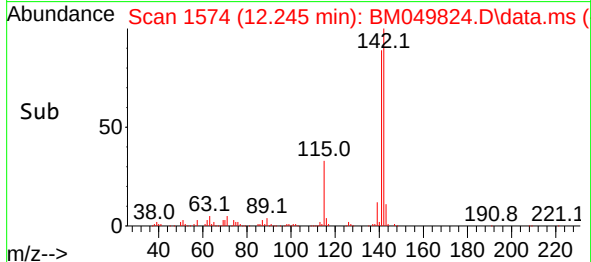
Instrument :
BNA_M
ClientSampleId :
SU-04-040125DL



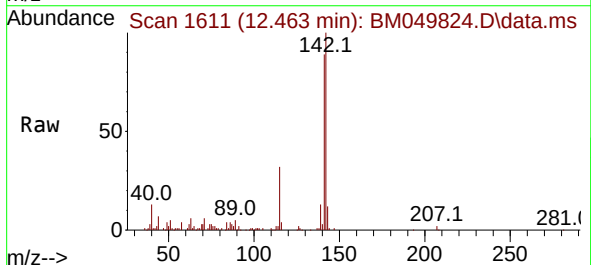
Tgt Ion:142 Resp: 12542
Ion Ratio Lower Upper
142 100
141 89.1 70.5 105.7
115 33.3 26.5 39.7

Manual Integrations
APPROVED

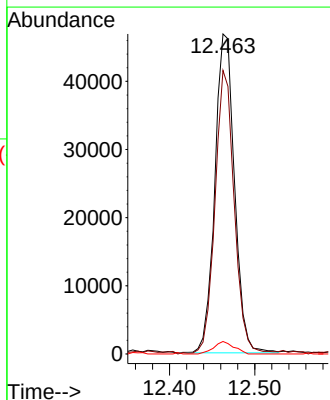
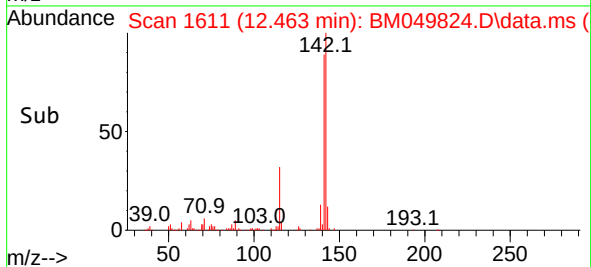
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

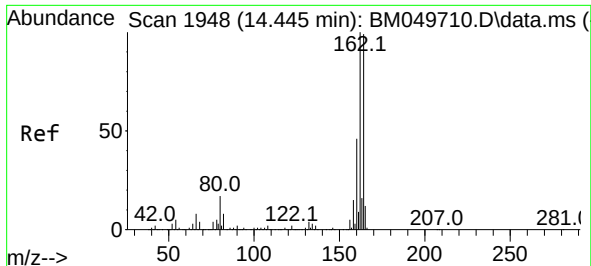


#38
1-Methylnaphthalene
Concen: 2.311 ng
RT: 12.463 min Scan# 1611
Delta R.T. -0.024 min
Lab File: BM049824.D
Acq: 04 Apr 2025 15:22



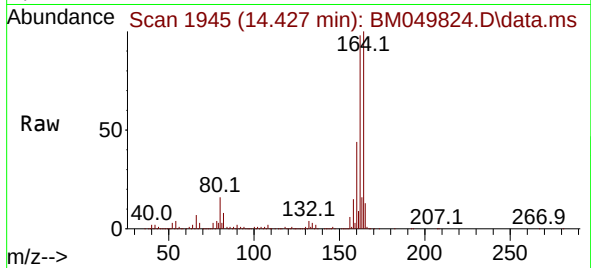
Tgt Ion:142 Resp: 75317
Ion Ratio Lower Upper
142 100
141 88.6 73.4 110.2
116 3.9 2.8 4.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.427 min Scan# 1945
Delta R.T. -0.018 min
Lab File: BM049824.D
Acq: 04 Apr 2025 15:22

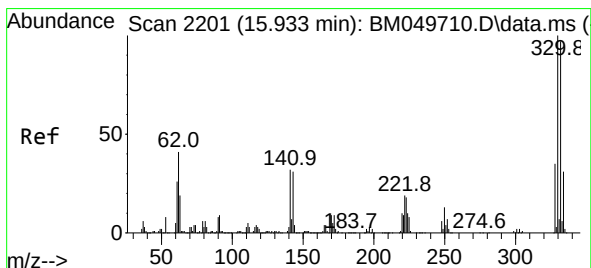
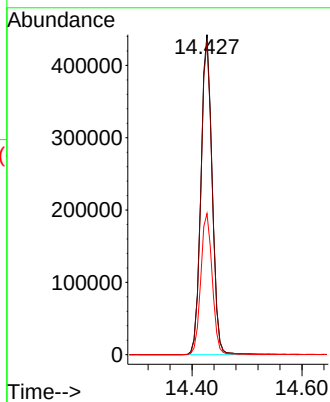
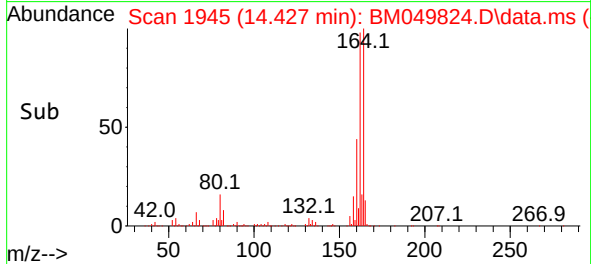
Instrument :
BNA_M
ClientSampleId :
SU-04-040125DL



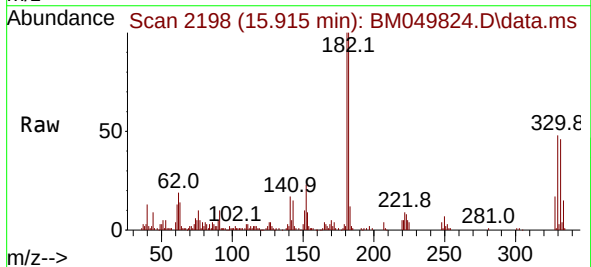
Tgt Ion:164 Resp: 627564
Ion Ratio Lower Upper
164 100
162 98.1 80.5 120.7
160 44.1 36.9 55.3

Manual Integrations
APPROVED

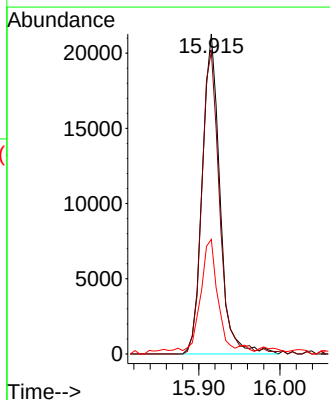
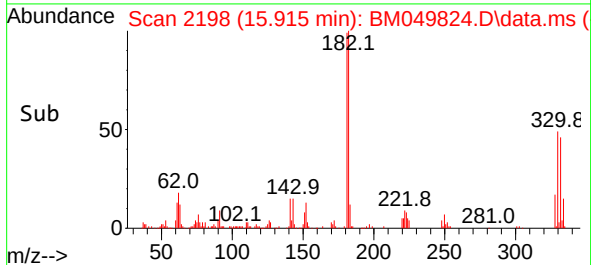
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

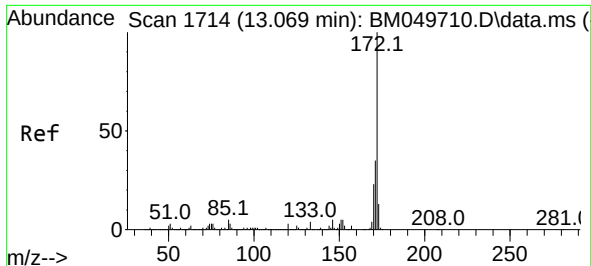


#42
2,4,6-Tribromophenol
Concen: 4.360 ng
RT: 15.915 min Scan# 2198
Delta R.T. -0.018 min
Lab File: BM049824.D
Acq: 04 Apr 2025 15:22



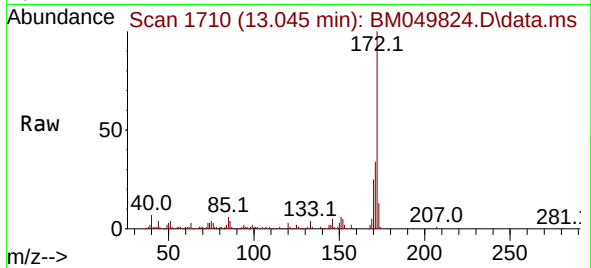
Tgt Ion:330 Resp: 31952
Ion Ratio Lower Upper
330 100
332 94.8 77.0 115.4
141 37.1 27.8 41.6





#45
2-Fluorobiphenyl
Concen: 2.589 ng
RT: 13.045 min Scan# 1714
Delta R.T. -0.024 min
Lab File: BM049824.D
Acq: 04 Apr 2025 15:22

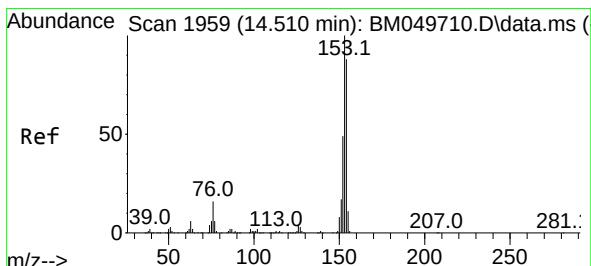
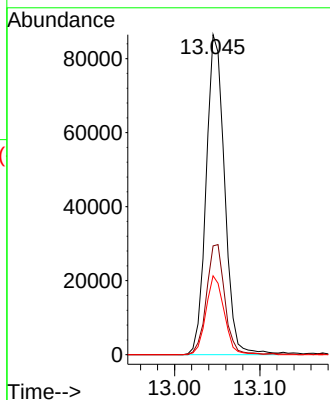
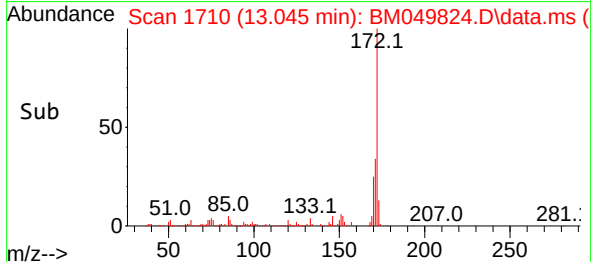
Instrument :
BNA_M
ClientSampleId :
SU-04-040125DL



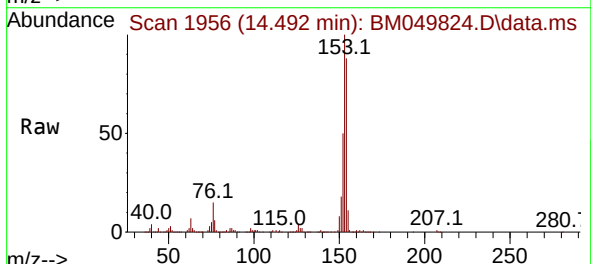
Tgt Ion:172 Resp: 129715
Ion Ratio Lower Upper
172 100
171 34.0 27.9 41.9
170 24.7 18.6 28.0

Manual Integrations
APPROVED

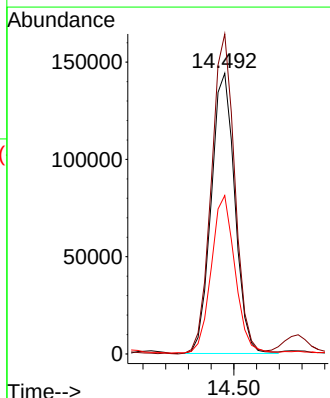
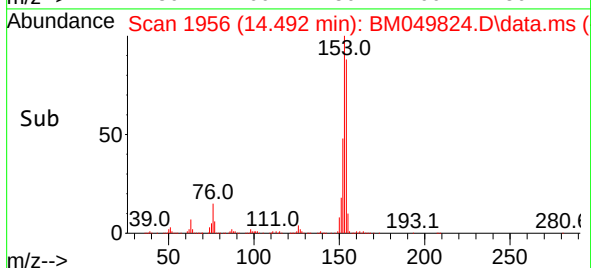
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

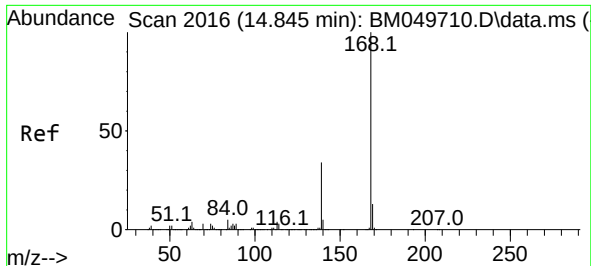


#52
Acenaphthene
Concen: 6.039 ng
RT: 14.492 min Scan# 1956
Delta R.T. -0.018 min
Lab File: BM049824.D
Acq: 04 Apr 2025 15:22



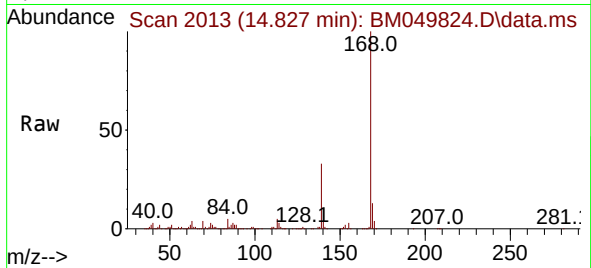
Tgt Ion:154 Resp: 208457
Ion Ratio Lower Upper
154 100
153 114.0 90.4 135.6
152 56.5 44.2 66.2





#55
Dibenzenofuran
Concen: 5.275 ng
RT: 14.827 min Scan# 2016
Delta R.T. -0.018 min
Lab File: BM049824.D
Acq: 04 Apr 2025 15:22

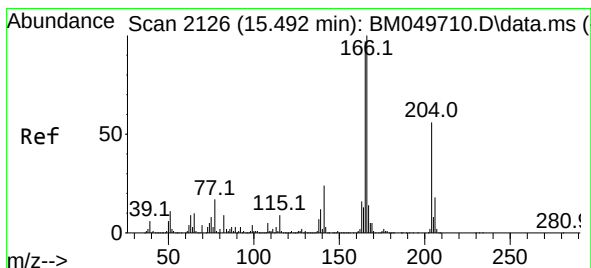
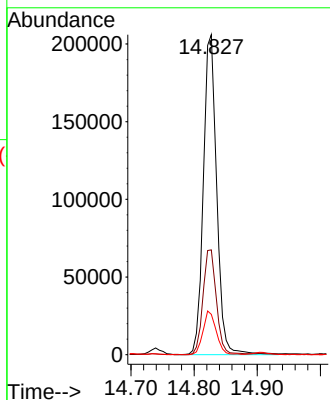
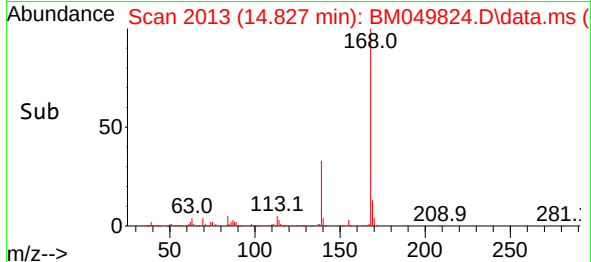
Instrument :
BNA_M
ClientSampleId :
SU-04-040125DL



Tgt Ion:168 Resp: 30341
Ion Ratio Lower Upper
168 100
139 32.7 27.4 41.0
169 12.6 10.7 16.1

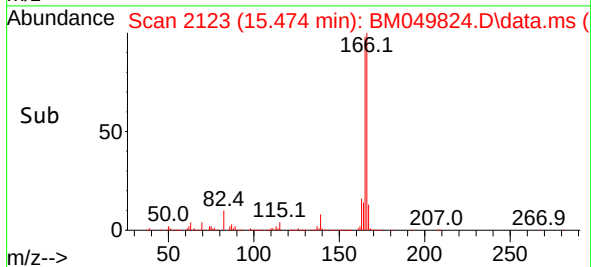
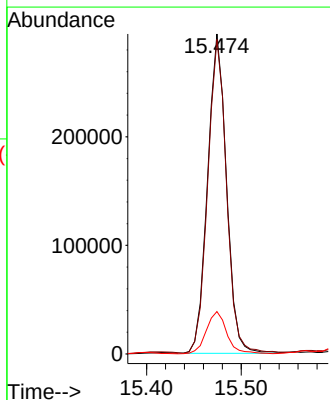
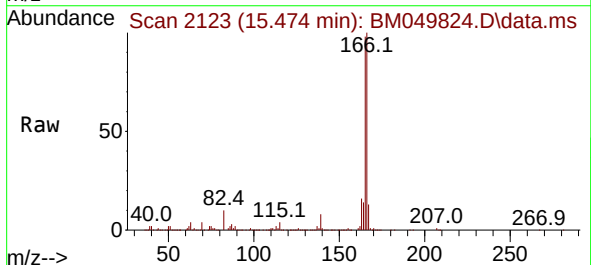
Manual Integrations
APPROVED

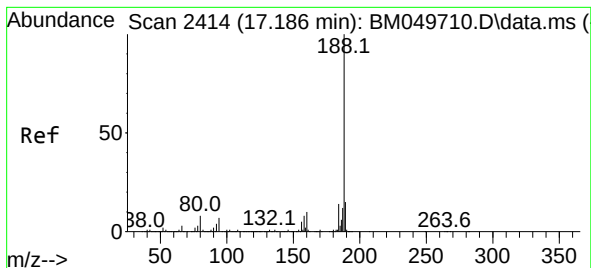
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025



#58
Fluorene
Concen: 8.719 ng
RT: 15.474 min Scan# 2123
Delta R.T. -0.018 min
Lab File: BM049824.D
Acq: 04 Apr 2025 15:22

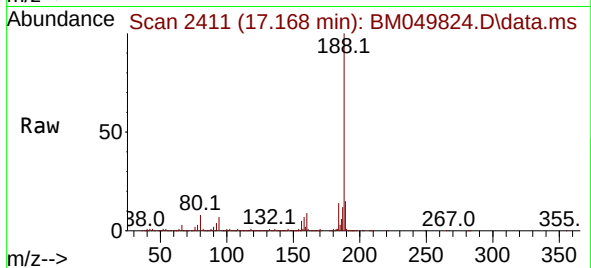
Tgt Ion:166 Resp: 408301
Ion Ratio Lower Upper
166 100
165 98.3 77.5 116.3
167 13.2 10.9 16.3





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.168 min Scan# 2411
Delta R.T. -0.018 min
Lab File: BM049824.D
Acq: 04 Apr 2025 15:22

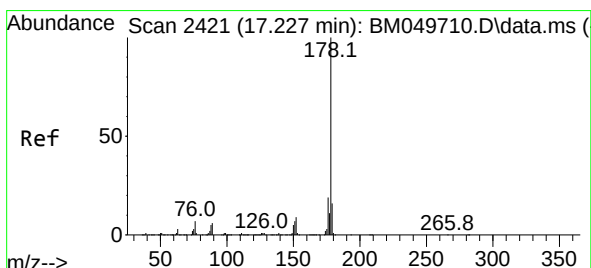
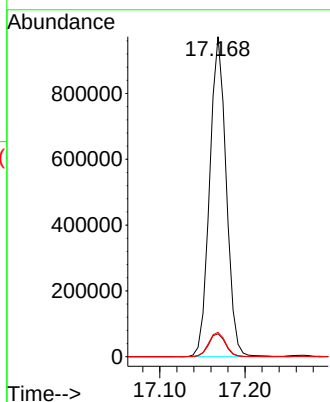
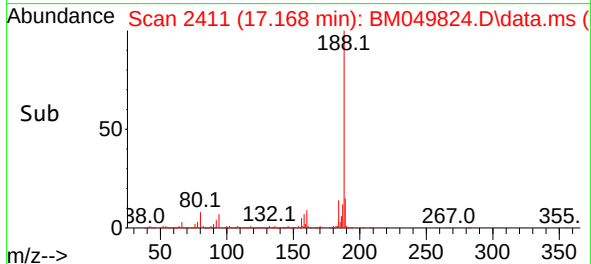
Instrument :
BNA_M
ClientSampleId :
SU-04-040125DL



Tgt Ion:188 Resp: 1314619
Ion Ratio Lower Upper
188 100
94 7.2 5.8 8.6
80 7.6 6.3 9.5

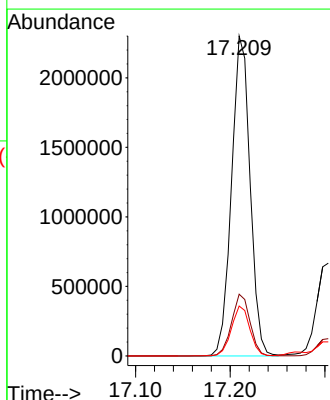
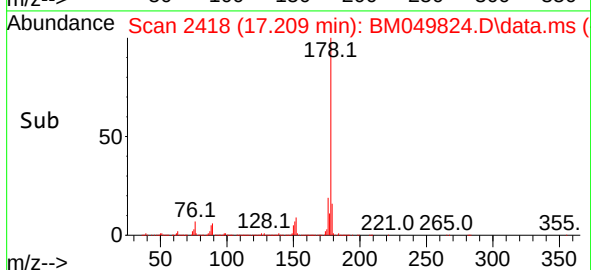
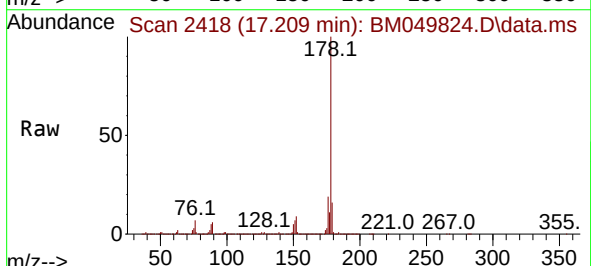
Manual Integrations
APPROVED

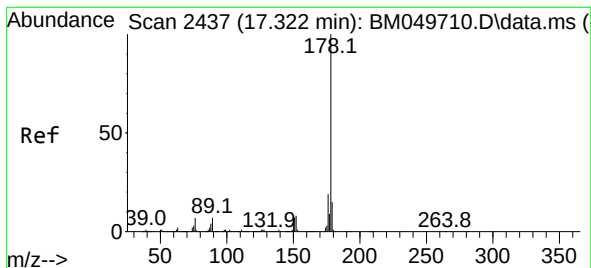
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025



#71
Phenanthrene
Concen: 42.837 ng
RT: 17.209 min Scan# 2418
Delta R.T. -0.018 min
Lab File: BM049824.D
Acq: 04 Apr 2025 15:22

Tgt Ion:178 Resp: 3126970
Ion Ratio Lower Upper
178 100
176 19.3 15.5 23.3
179 15.6 12.5 18.7





#72

Anthracene

Concen: 12.959 ng

RT: 17.304 min Scan# 2434

Delta R.T. -0.018 min

Lab File: BM049824.D

Acq: 04 Apr 2025 15:22

Instrument :

BNA_M

ClientSampleId :

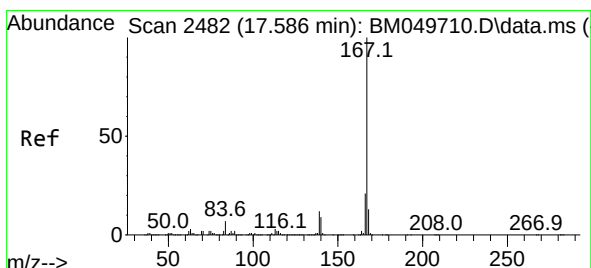
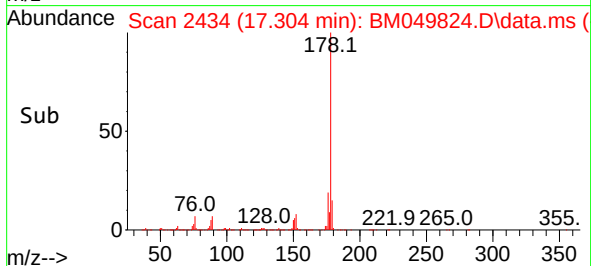
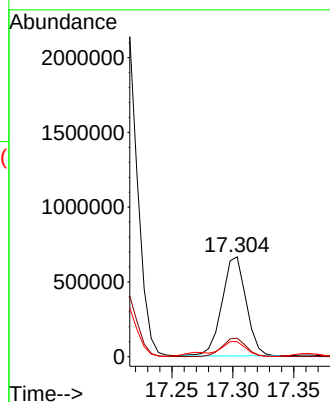
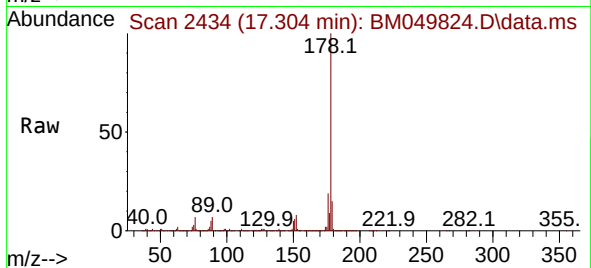
SU-04-040125DL

Tgt Ion:178 Resp: 91614
 Ion Ratio Lower Upper
 178 100
 176 18.6 15.1 22.7
 179 15.2 12.4 18.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/07/2025
 Supervised By :Jagrut Upadhyay 04/07/2025



#73

Carbazole

Concen: 3.848 ng

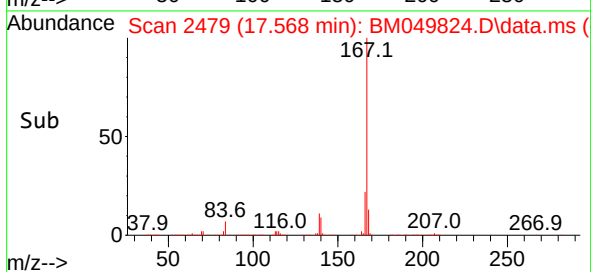
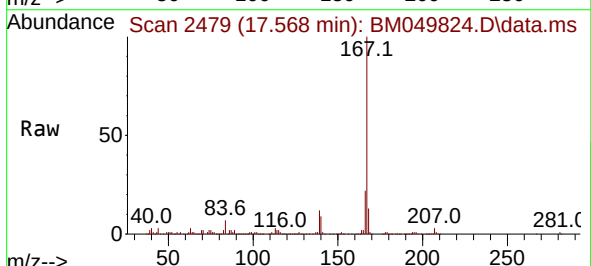
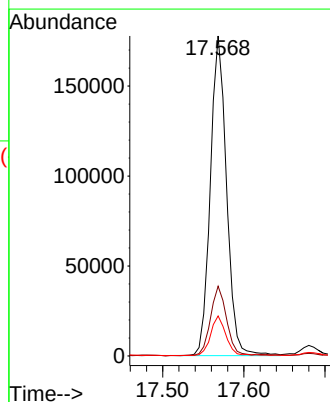
RT: 17.568 min Scan# 2479

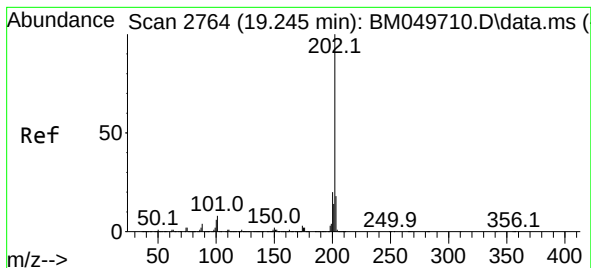
Delta R.T. -0.018 min

Lab File: BM049824.D

Acq: 04 Apr 2025 15:22

Tgt Ion:167 Resp: 246341
 Ion Ratio Lower Upper
 167 100
 166 21.8 17.0 25.6
 139 12.5 9.4 14.2





#75

Fluoranthene

Concen: 56.284 ng

RT: 19.227 min Scan# 21

Delta R.T. -0.018 min

Lab File: BM049824.D

Acq: 04 Apr 2025 15:22

Instrument :

BNA_M

ClientSampleId :

SU-04-040125DL

Tgt Ion:202 Resp: 4730200

Ion Ratio Lower Upper

202 100

101 8.0 0.0 27.8

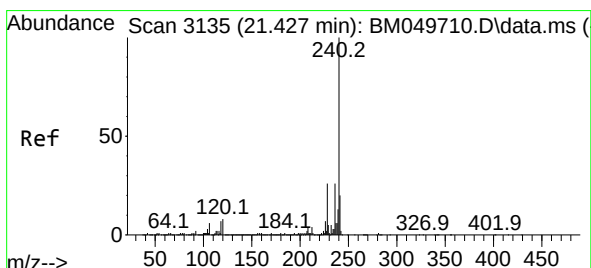
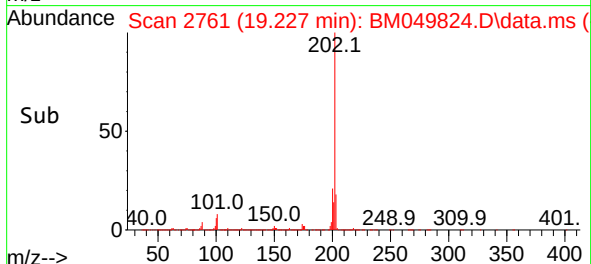
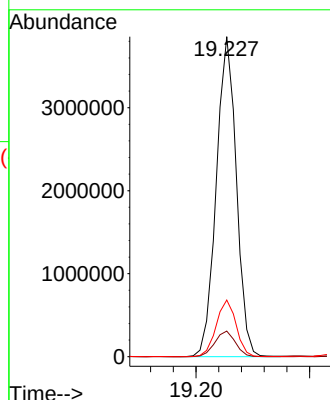
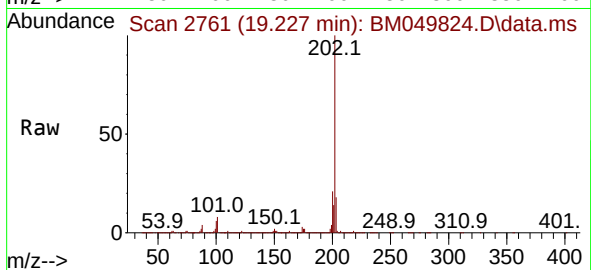
203 17.7 0.0 37.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/07/2025

Supervised By :Jagrut Upadhyay 04/07/2025



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.403 min Scan# 3131

Delta R.T. -0.024 min

Lab File: BM049824.D

Acq: 04 Apr 2025 15:22

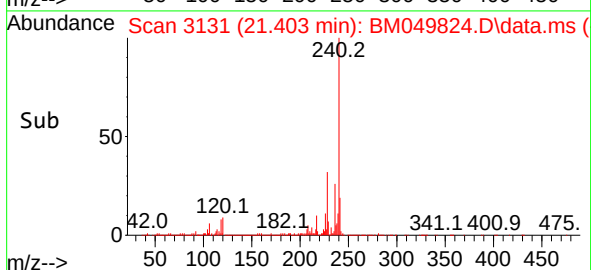
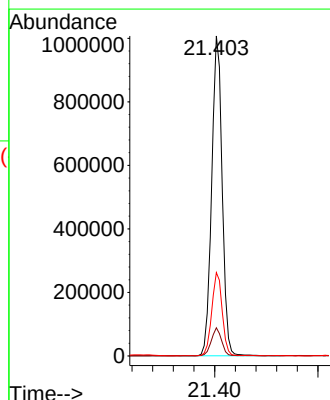
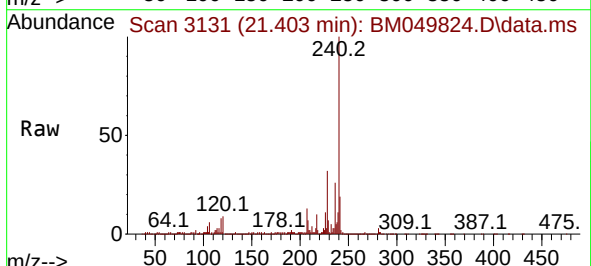
Tgt Ion:240 Resp: 1413104

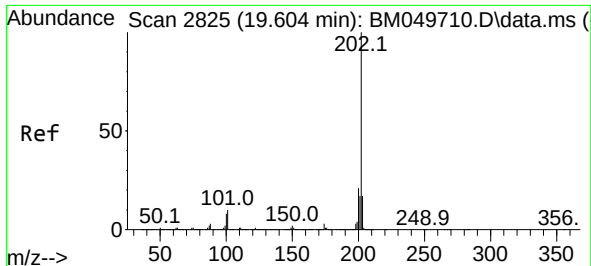
Ion Ratio Lower Upper

240 100

120 8.8 6.5 9.7

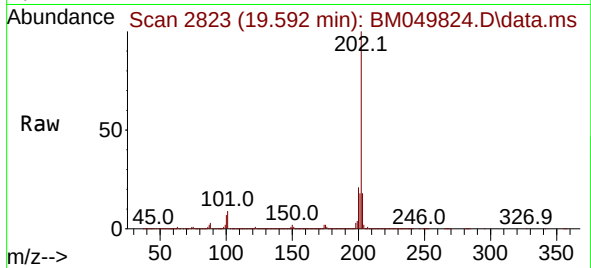
236 26.1 20.7 31.1





#78
Pyrene
Concen: 40.119 ng
RT: 19.592 min Scan# 2823
Delta R.T. -0.012 min
Lab File: BM049824.D
Acq: 04 Apr 2025 15:22

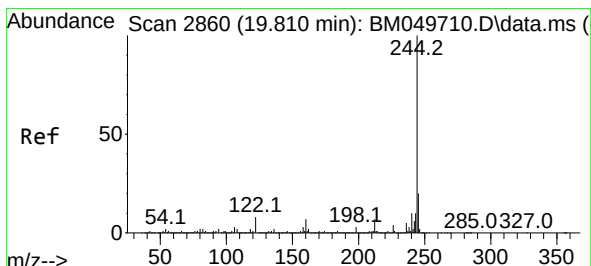
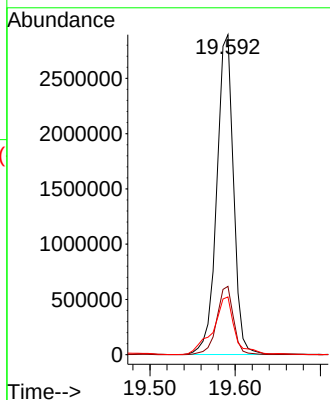
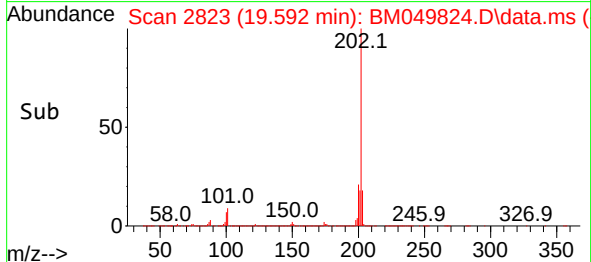
Instrument :
BNA_M
ClientSampleId :
SU-04-040125DL



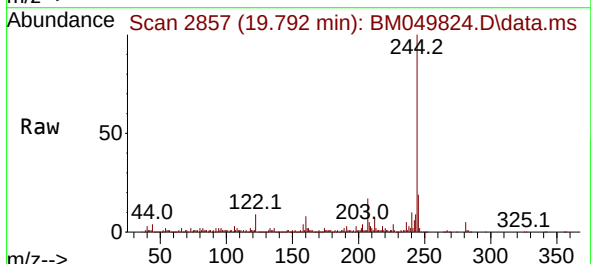
Tgt Ion:202 Resp: 396081
Ion Ratio Lower Upper
202 100
200 21.3 17.0 25.4
203 18.0 14.0 21.0

Manual Integrations
APPROVED

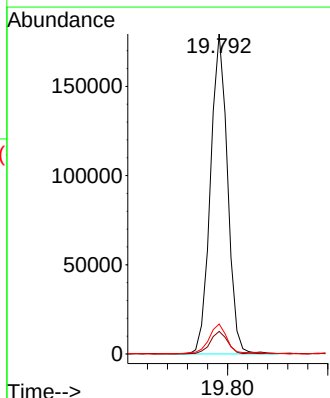
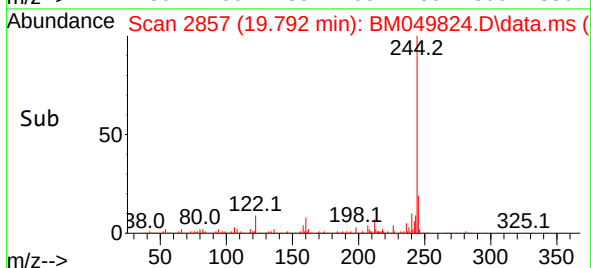
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

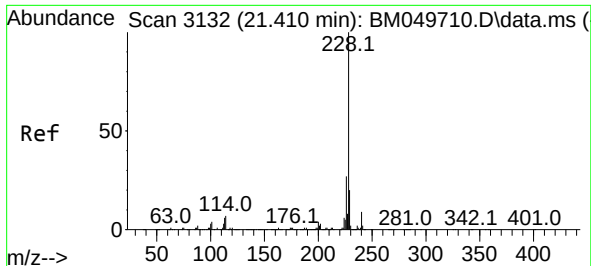


#79
Terphenyl-d14
Concen: 2.532 ng
RT: 19.792 min Scan# 2857
Delta R.T. -0.018 min
Lab File: BM049824.D
Acq: 04 Apr 2025 15:22



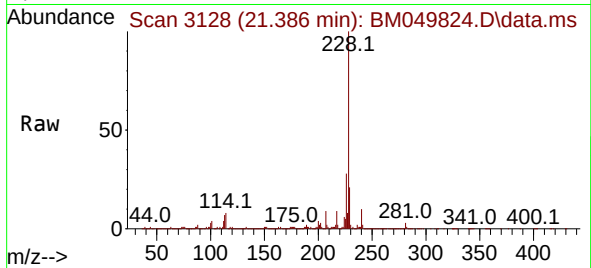
Tgt Ion:244 Resp: 212292
Ion Ratio Lower Upper
244 100
212 7.1 5.8 8.6
122 9.3 6.0 9.0#





#81
Benzo(a)anthracene
Concen: 22.006 ng
RT: 21.386 min Scan# 3132
Delta R.T. -0.024 min
Lab File: BM049824.D
Acq: 04 Apr 2025 15:22

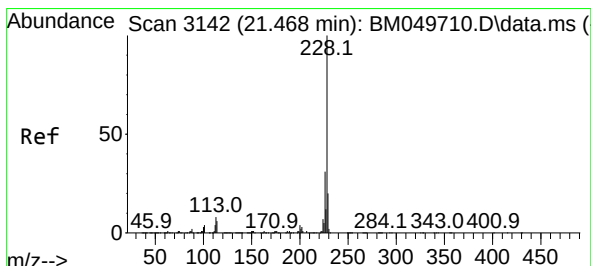
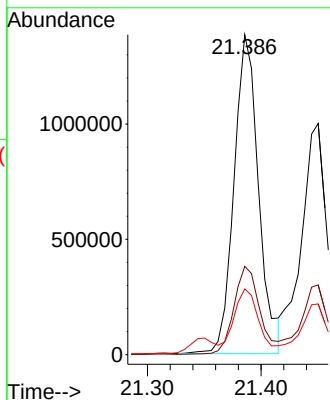
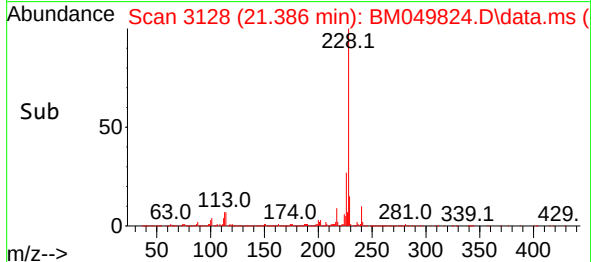
Instrument :
BNA_M
ClientSampleId :
SU-04-040125DL



Tgt Ion:228 Resp: 2077048
Ion Ratio Lower Upper
228 100
226 27.6 22.0 33.0
229 20.5 15.8 23.8

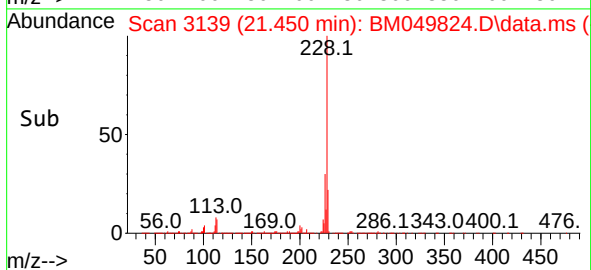
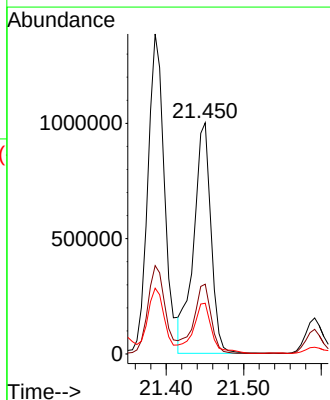
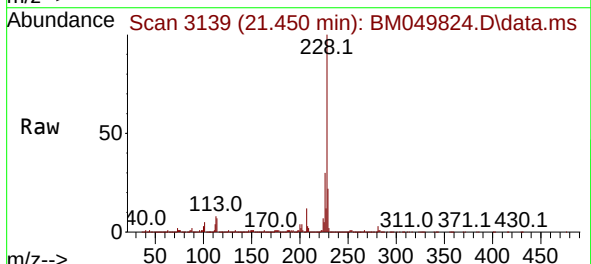
Manual Integrations
APPROVED

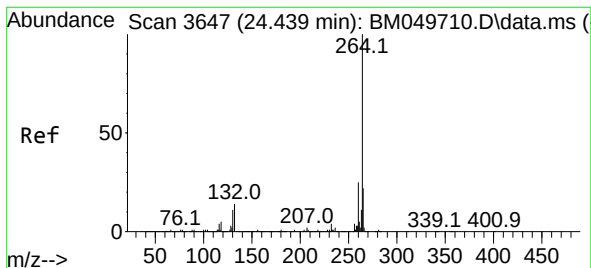
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025



#83
Chrysene
Concen: 17.406 ng
RT: 21.450 min Scan# 3139
Delta R.T. -0.018 min
Lab File: BM049824.D
Acq: 04 Apr 2025 15:22

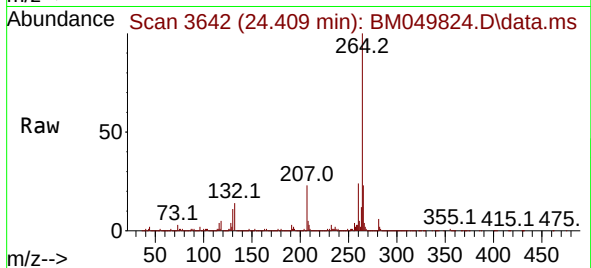
Tgt Ion:228 Resp: 1557357
Ion Ratio Lower Upper
228 100
226 30.2 24.5 36.7
229 21.9 15.8 23.6





#86
Perylene-d12
Concen: 20.000 ng
RT: 24.409 min Scan# 3642
Delta R.T. -0.030 min
Lab File: BM049824.D
Acq: 04 Apr 2025 15:22

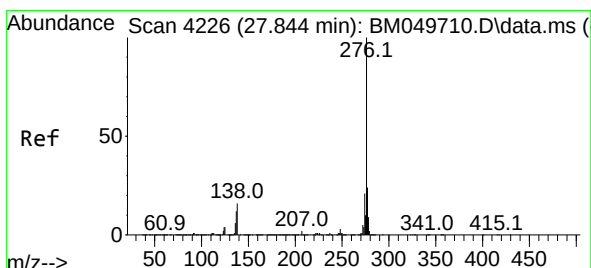
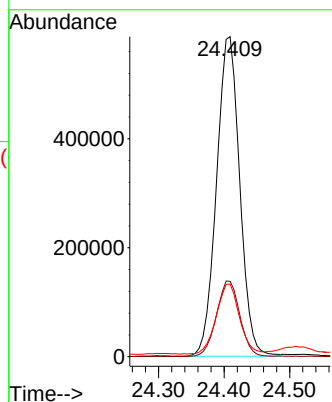
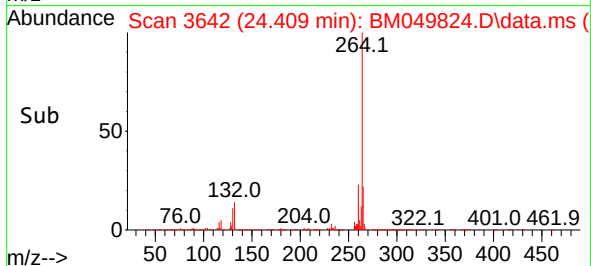
Instrument :
BNA_M
ClientSampleId :
SU-04-040125DL



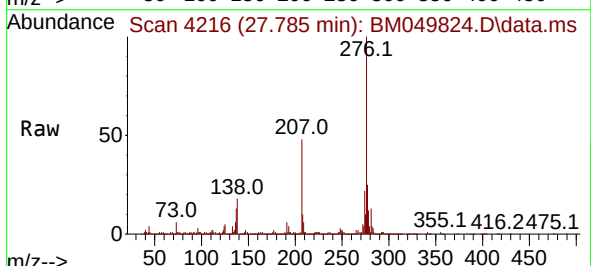
Tgt Ion:264 Resp: 1440650
Ion Ratio Lower Upper
264 100
260 23.5 19.6 29.4
265 22.7 18.2 27.2

Manual Integrations
APPROVED

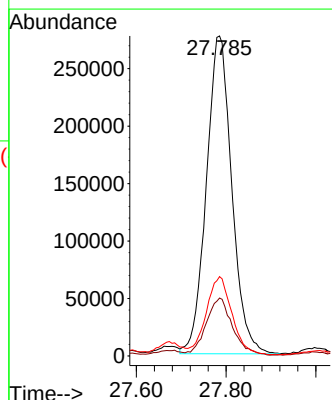
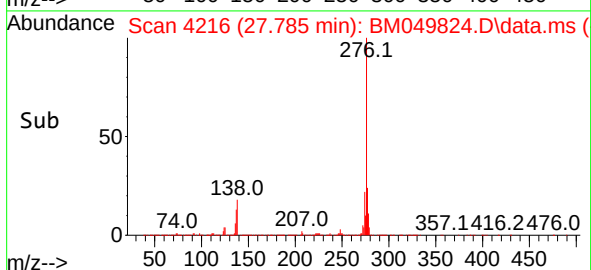
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

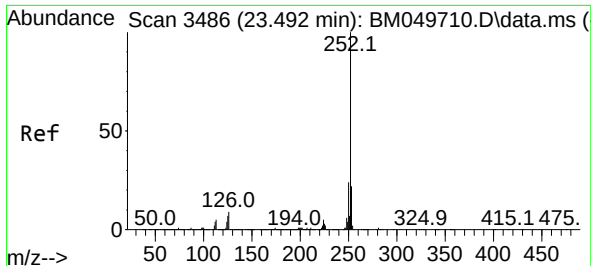


#87
Indeno(1,2,3-cd)pyrene
Concen: 10.526 ng
RT: 27.785 min Scan# 4216
Delta R.T. -0.059 min
Lab File: BM049824.D
Acq: 04 Apr 2025 15:22



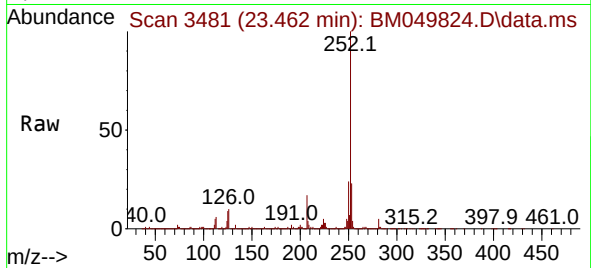
Tgt Ion:276 Resp: 1091411
Ion Ratio Lower Upper
276 100
138 18.6 16.3 24.5
277 24.5 19.9 29.9





#88
Benzo(b)fluoranthene
Concen: 23.659 ng
RT: 23.462 min Scan# 3486
Delta R.T. -0.030 min
Lab File: BM049824.D
Acq: 04 Apr 2025 15:22

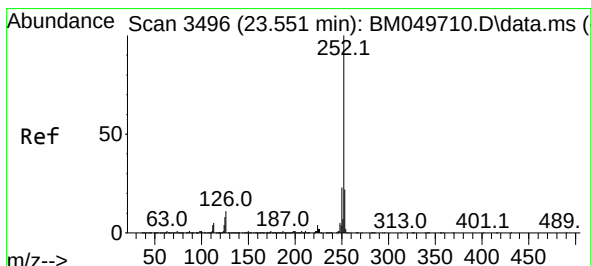
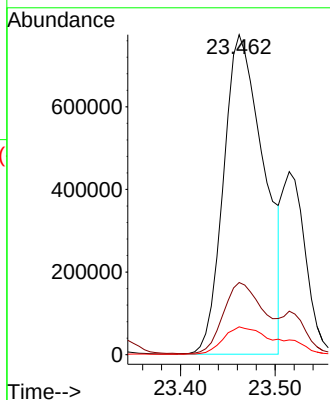
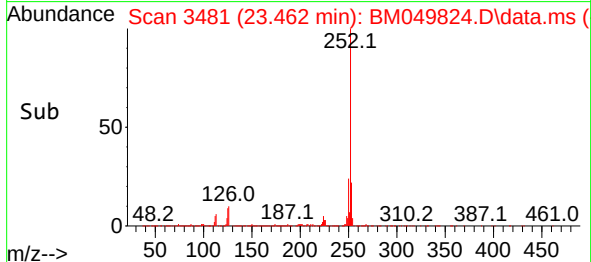
Instrument :
BNA_M
ClientSampleId :
SU-04-040125DL



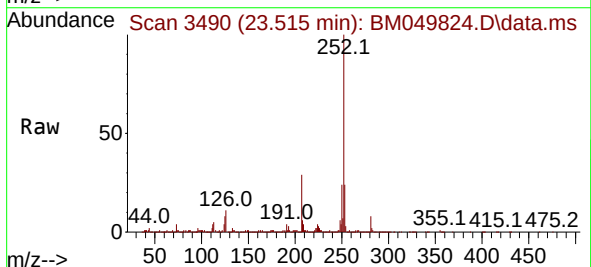
Tgt Ion:252 Resp: 229567
Ion Ratio Lower Upper
252 100
253 22.5 17.4 26.0
125 8.7 5.9 8.9

Manual Integrations
APPROVED

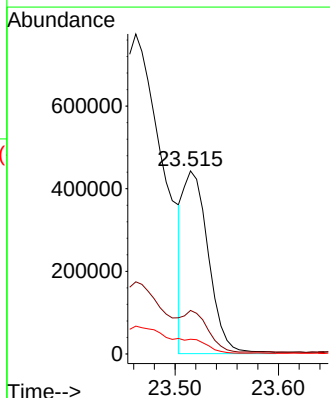
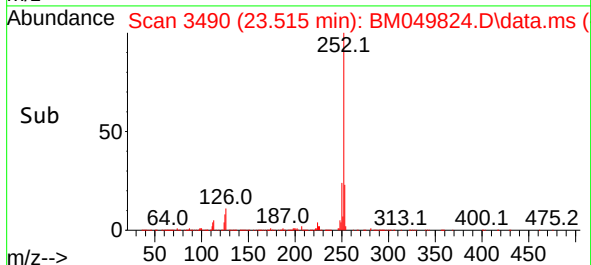
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

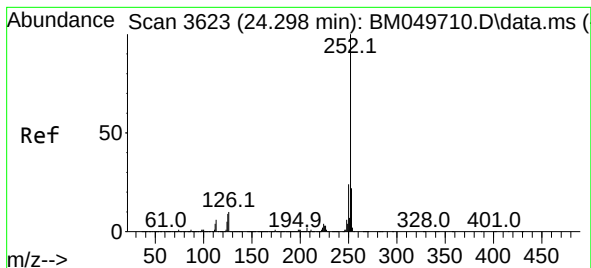


#89
Benzo(k)fluoranthene
Concen: 7.918 ng m
RT: 23.515 min Scan# 3490
Delta R.T. -0.036 min
Lab File: BM049824.D
Acq: 04 Apr 2025 15:22



Tgt Ion:252 Resp: 756051
Ion Ratio Lower Upper
252 100
253 23.8 17.3 25.9
125 8.1 6.2 9.2





#90

Benzo(a)pyrene

Concen: 21.438 ng

RT: 24.268 min Scan# 3

Delta R.T. -0.030 min

Lab File: BM049824.D

Acq: 04 Apr 2025 15:22

Instrument :

BNA_M

ClientSampleId :

SU-04-040125DL

Tgt Ion:252 Resp: 174732

Ion Ratio Lower Upper

252 100

253 22.8 17.2 25.8

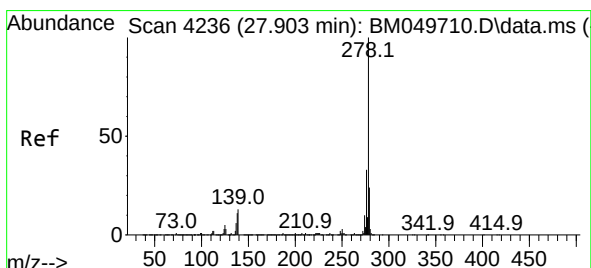
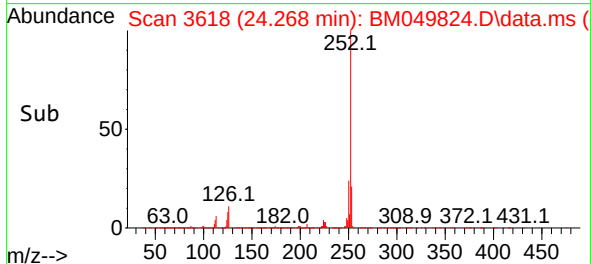
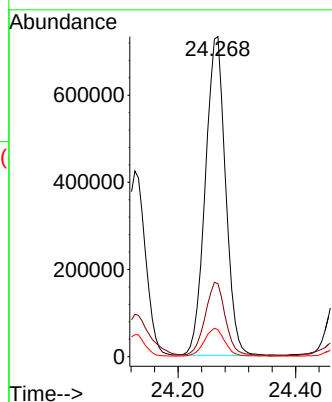
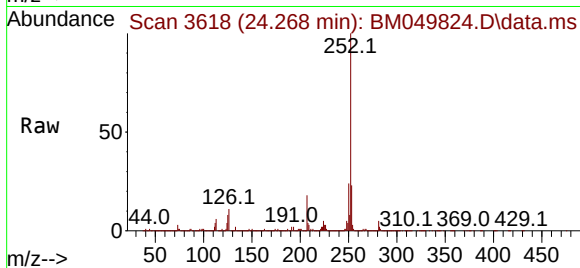
125 8.4 7.0 10.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/07/2025

Supervised By :Jagrut Upadhyay 04/07/2025



#91

Dibenzo(a,h)anthracene

Concen: 3.155 ng

RT: 27.815 min Scan# 4221

Delta R.T. -0.089 min

Lab File: BM049824.D

Acq: 04 Apr 2025 15:22

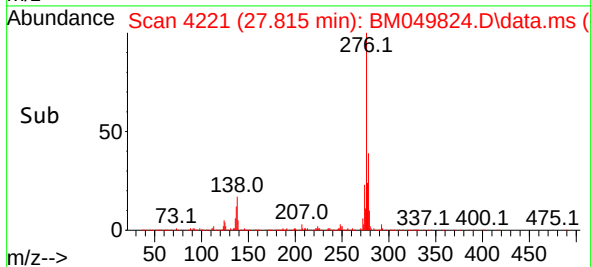
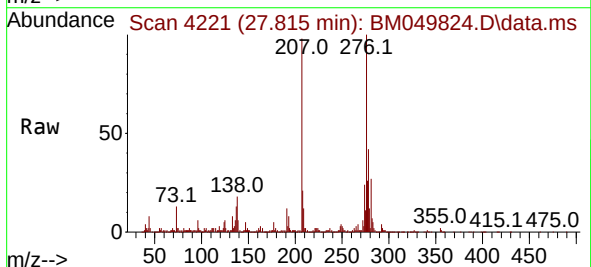
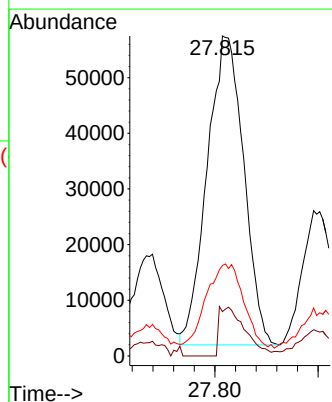
Tgt Ion:278 Resp: 272544

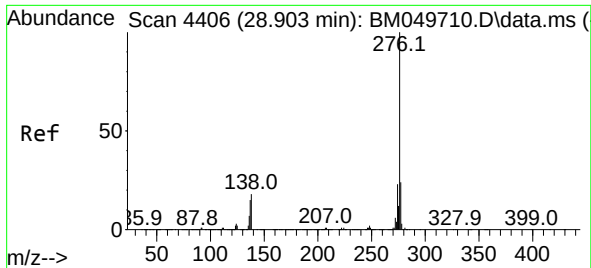
Ion Ratio Lower Upper

278 100

139 13.8 10.1 15.1

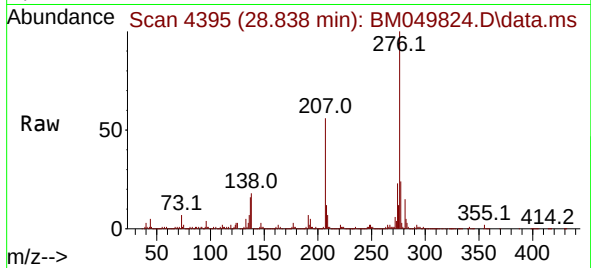
279 28.3 19.1 28.7





#92
 Benzo(g,h,i)perylene
 Concen: 11.488 ng
 RT: 28.838 min Scan# 41
 Delta R.T. -0.065 min
 Lab File: BM049824.D
 Acq: 04 Apr 2025 15:22

Instrument :
 BNA_M
 ClientSampleId :
 SU-04-040125DL



Tgt Ion:276 Resp: 999699
 Ion Ratio Lower Upper
 276 100
 277 23.7 18.8 28.2
 138 18.2 14.0 21.0

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 04/07/2025
 Supervised By :Jagrut Upadhyay 04/07/2025

