

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061125\
 Data File : BP024917.D
 Acq On : 11 Jun 2025 18:27
 Operator : RC/JU
 Sample : Q2177-02DL 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 B-187-SB01DL

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 06/12/2025
 Supervised By :mohammad ahmed 06/13/2025

Quant Time: Jun 12 01:57:38 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 06 16:20:27 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.613	152	219933	20.000	ng	0.00
21) Naphthalene-d8	10.384	136	879842	20.000	ng	0.00
39) Acenaphthene-d10	14.254	164	533152	20.000	ng	0.00
64) Phenanthrene-d10	17.060	188	1070454	20.000	ng	0.00
76) Chrysene-d12	21.489	240	1300156	20.000	ng	0.00
86) Perylene-d12	24.754	264	1571242	20.000	ng	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.243	112	285761	21.688	ng	0.00
7) Phenol-d6	6.825	99	361831	20.755	ng	0.01
23) Nitrobenzene-d5	8.766	82	220955	12.203	ng	0.00
42) 2,4,6-Tribromophenol	15.784	330	164843	22.363	ng	0.00
45) 2-Fluorobiphenyl	12.866	172	499456	12.620	ng	0.00
79) Terphenyl-d14	19.777	244	843470	11.627	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	10.431	128	152893	3.391	ng	98
52) Acenaphthene	14.319	154	238656	8.388	ng	99
55) Dibenzofuran	14.666	168	215094	4.710	ng	98
58) Fluorene	15.325	166	232055	6.290	ng	99
71) Phenanthrene	17.101	178	3511051	59.354	ng	99
72) Anthracene	17.195	178	920713	15.368	ng	99
73) Carbazole	17.483	167	321499	5.790	ng	99
75) Fluoranthene	19.195	202	4135705	60.320	ng	98
78) Pyrene	19.572	202	3691405	45.446	ng	100
81) Benzo(a)anthracene	21.471	228	1706833	20.526	ng	99
83) Chrysene	21.536	228	1437484	18.244	ng	97
87) Indeno(1,2,3-cd)pyrene	28.442	276	1029739	8.982	ng	95
88) Benzo(b)fluoranthene	23.724	252	1907061	21.208	ng	98
89) Benzo(k)fluoranthene	23.783	252	673277m	7.356	ng	
90) Benzo(a)pyrene	24.601	252	1587050	18.072	ng	98
91) Dibenzo(a,h)anthracene	28.518	278	229499	2.459	ng	# 90
92) Benzo(g,h,i)perylene	29.600	276	1000654	10.808	ng	98

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

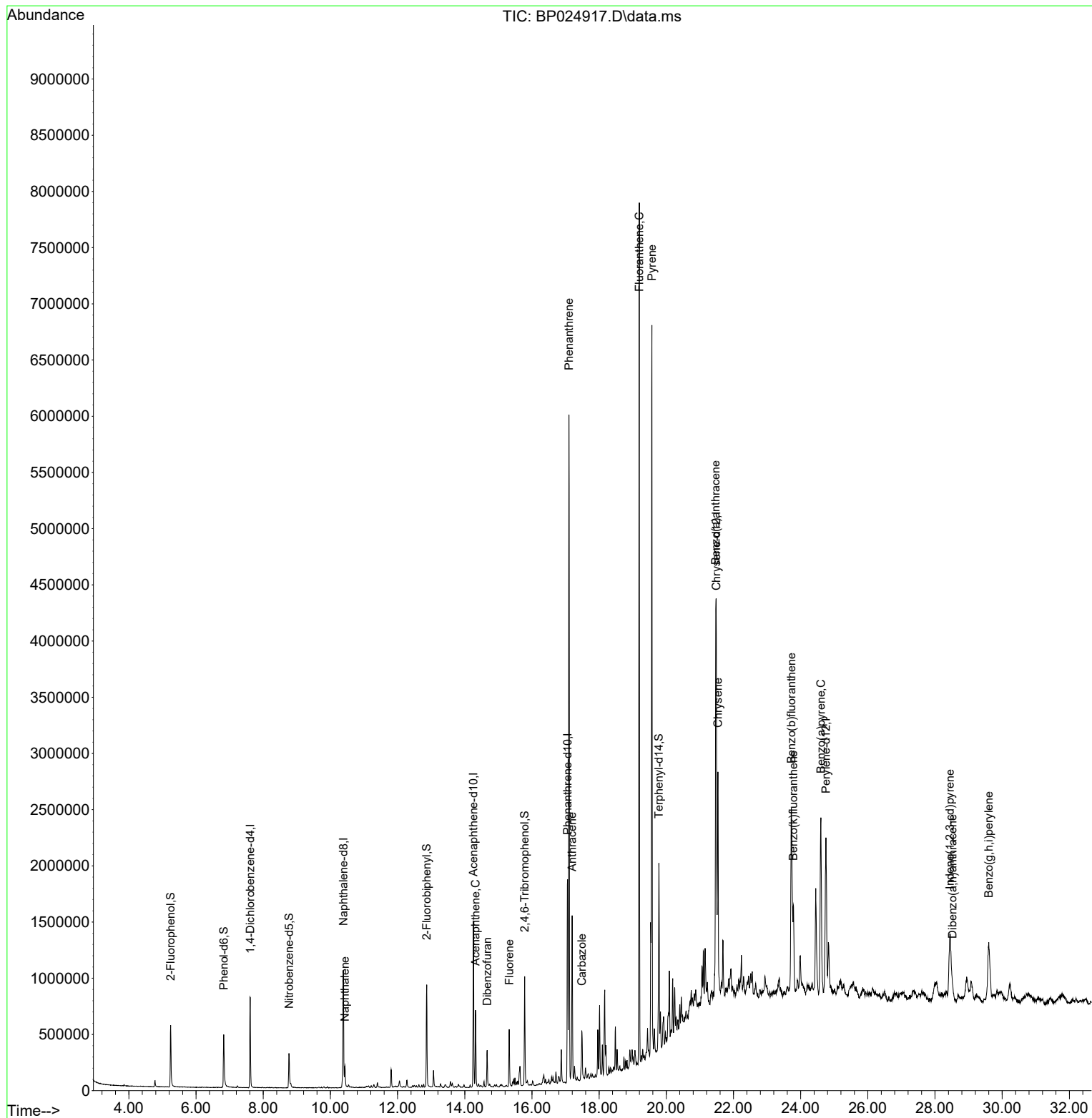
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061125\
Data File : BP024917.D
Acq On : 11 Jun 2025 18:27
Operator : RC/JU
Sample : Q2177-02DL 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

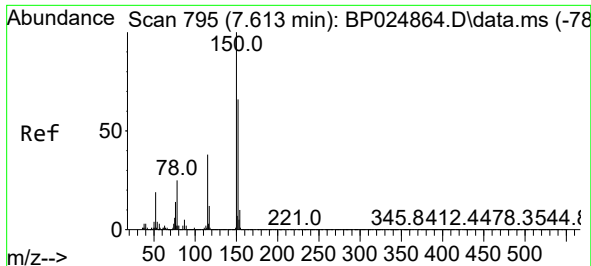
Instrument :
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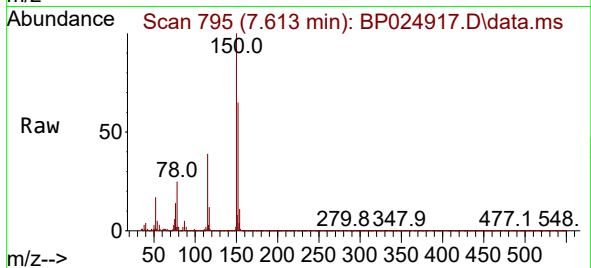
Quant Time: Jun 12 01:57:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.613 min Scan# 795
Delta R.T. 0.000 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

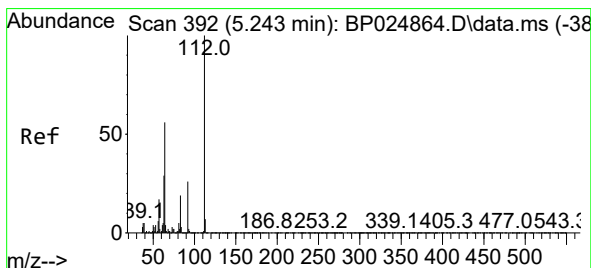
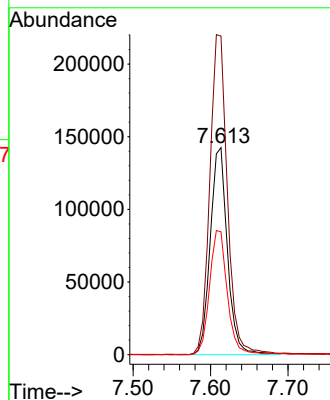
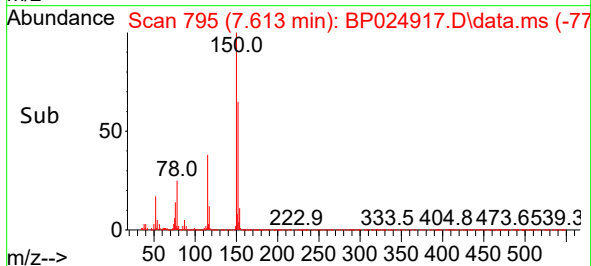
Instrument :
BNA_P
ClientSampleId :
B-187-SB01DL



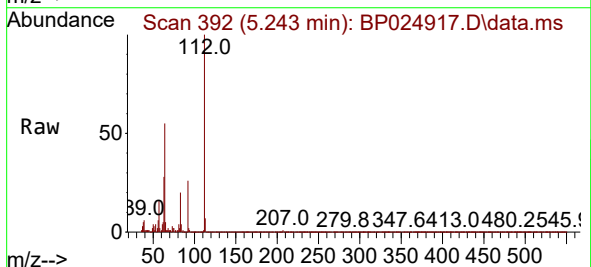
Tgt Ion:152 Resp: 21993
Ion Ratio Lower Upper
152 100
150 153.9 122.1 183.1
115 59.4 46.4 69.6

Manual Integrations
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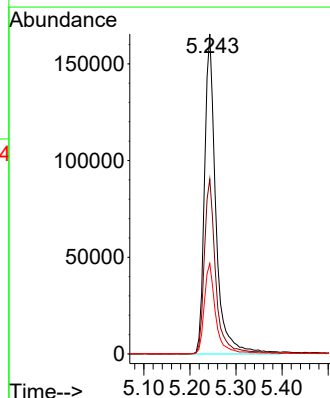
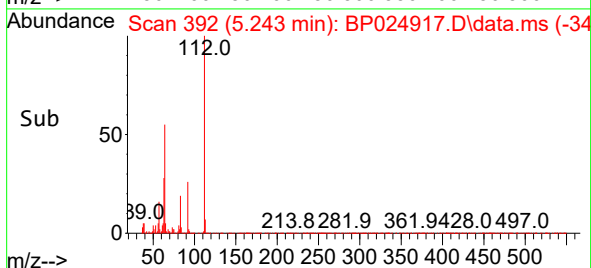
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

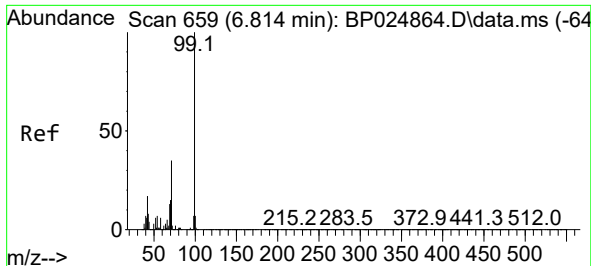


#5
2-Fluorophenol
Concen: 21.688 ng
RT: 5.243 min Scan# 392
Delta R.T. -0.000 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27



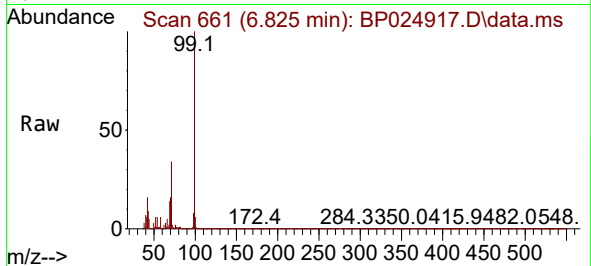
Tgt Ion:112 Resp: 285761
Ion Ratio Lower Upper
112 100
64 54.7 44.7 67.1
63 28.3 23.5 35.3





#7
Phenol-d6
Concen: 20.755 ng
RT: 6.825 min Scan# 60
Delta R.T. 0.012 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

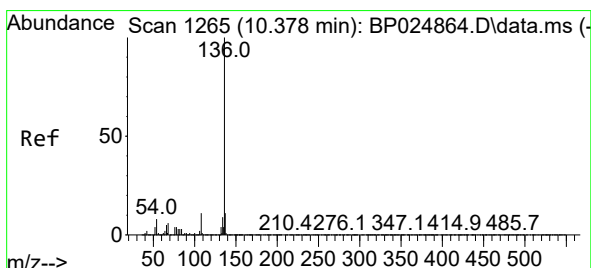
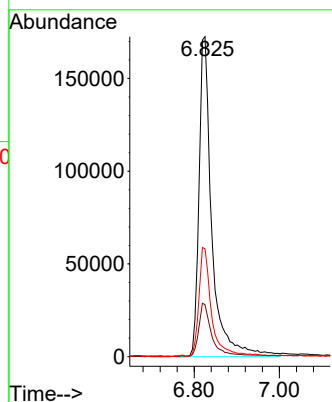
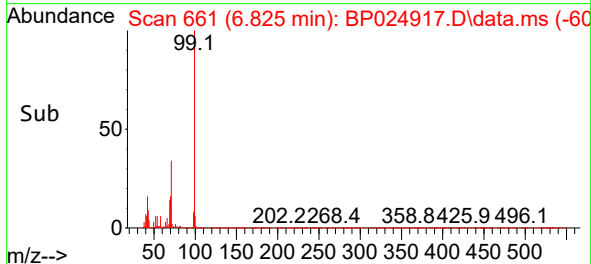
Instrument :
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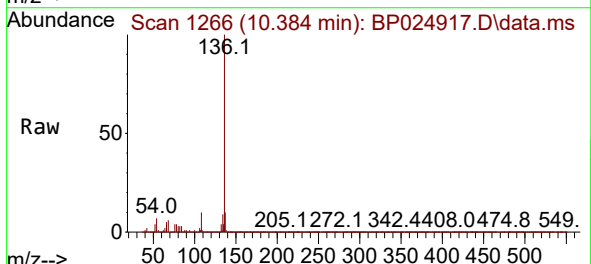
Tgt Ion: 99 Resp: 36183
Ion Ratio Lower Upper
99 100
42 16.3 13.4 20.2
71 33.7 27.6 41.4

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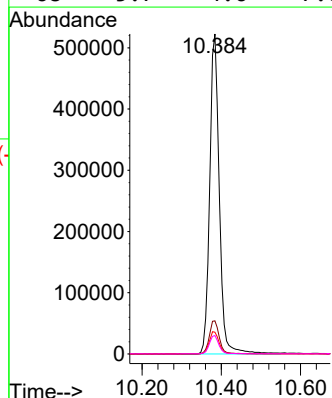
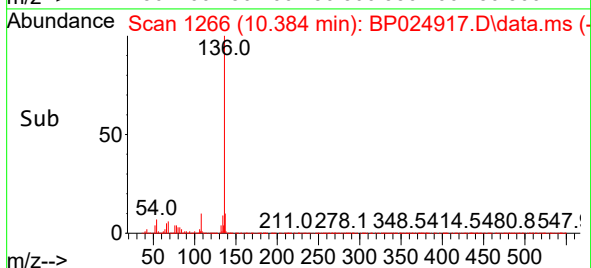
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

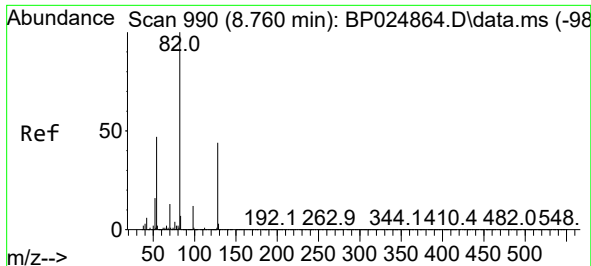


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.384 min Scan# 1266
Delta R.T. 0.006 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27



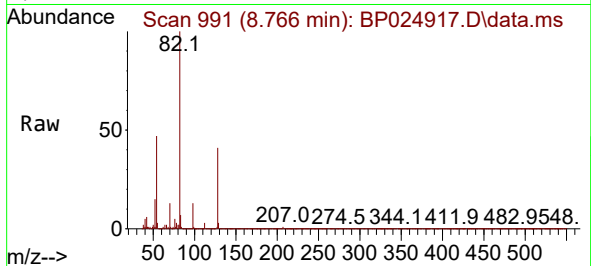
Tgt Ion:136 Resp: 879842
Ion Ratio Lower Upper
136 100
137 10.4 8.9 13.3
54 6.8 6.1 9.1
68 5.7 4.6 7.0





#23
Nitrobenzene-d5
Concen: 12.203 ng
RT: 8.766 min Scan# 991
Delta R.T. 0.006 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

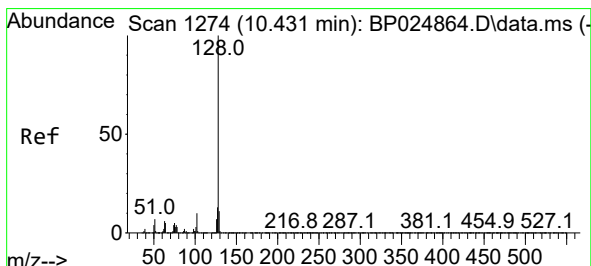
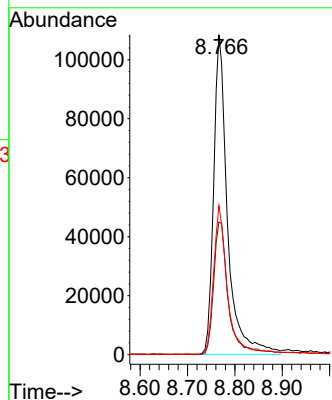
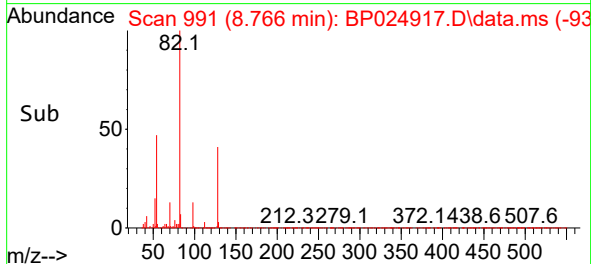
Instrument :
BNA_P
ClientSampleId :
B-187-SB01DL



Tgt Ion: 82 Resp: 22095
Ion Ratio Lower Upper
82 100
128 41.5 35.3 52.9
54 46.5 37.4 56.0

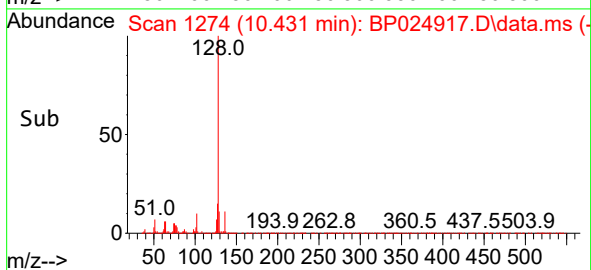
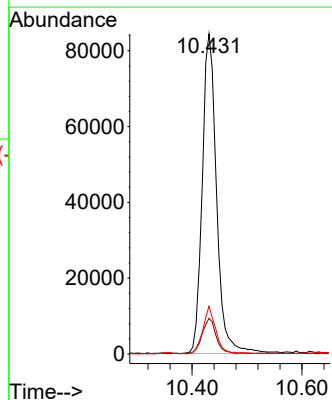
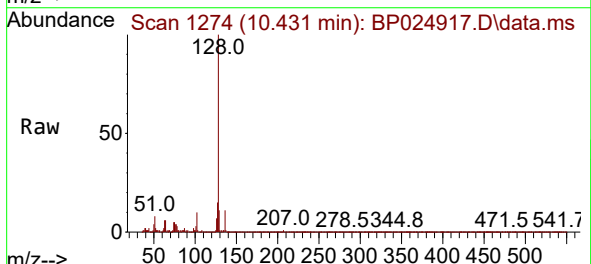
Manual Integrations
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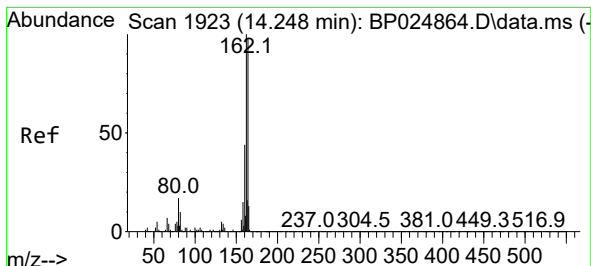
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025



#31
Naphthalene
Concen: 3.391 ng
RT: 10.431 min Scan# 1274
Delta R.T. -0.000 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

Tgt Ion:128 Resp: 152893
Ion Ratio Lower Upper
128 100
129 11.1 8.7 13.1
127 14.9 10.7 16.1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.254 min Scan# 1924

Delta R.T. 0.006 min

Lab File: BP024917.D

Acq: 11 Jun 2025 18:27

Instrument :

BNA_P

ClientSampleId :

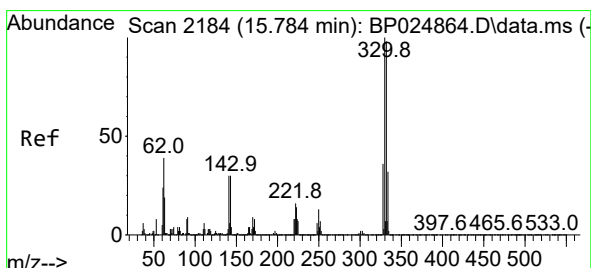
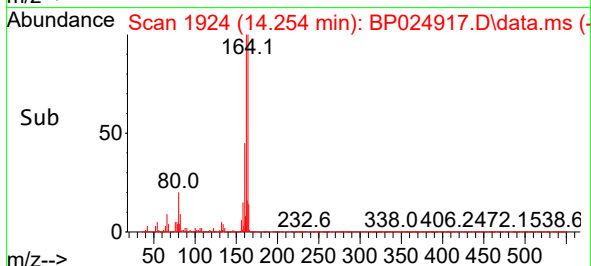
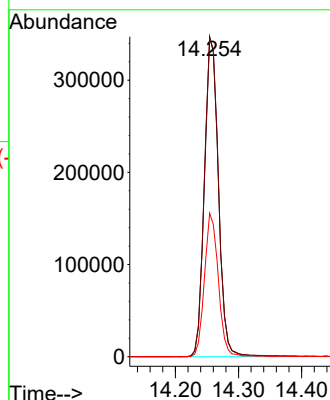
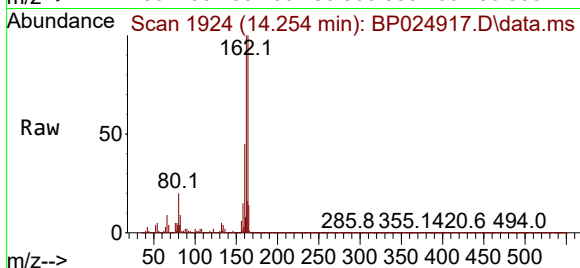
B-187-SB01DL

Tgt Ion:164 Resp: 533152
 Ion Ratio Lower Upper
 164 100
 162 99.7 81.6 122.4
 160 44.9 36.2 54.2

Manual Integrations

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 Supervised By :mohammad ahmed 06/13/2025



#42

2,4,6-Tribromophenol

Concen: 22.363 ng

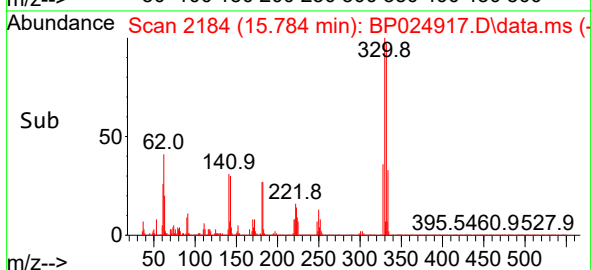
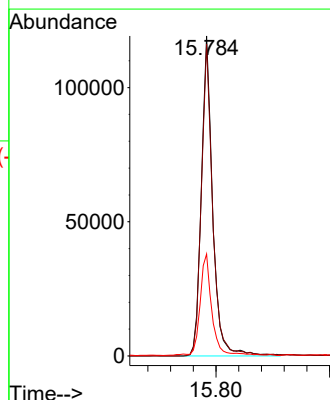
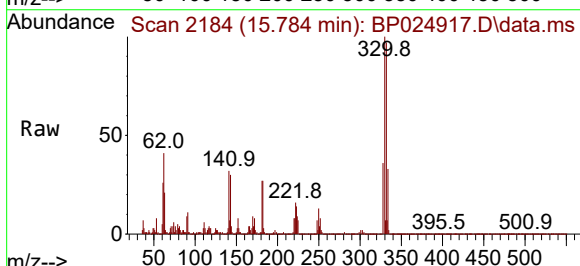
RT: 15.784 min Scan# 2184

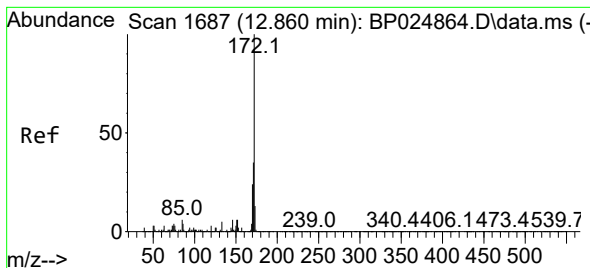
Delta R.T. -0.000 min

Lab File: BP024917.D

Acq: 11 Jun 2025 18:27

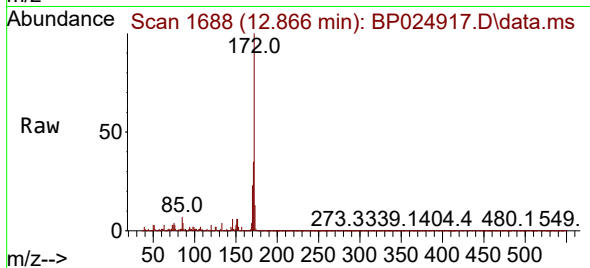
Tgt Ion:330 Resp: 164843
 Ion Ratio Lower Upper
 330 100
 332 97.2 77.7 116.5
 141 32.9 26.4 39.6





#45
2-Fluorobiphenyl
Concen: 12.620 ng
RT: 12.866 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

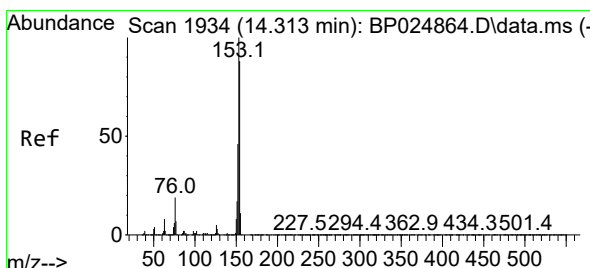
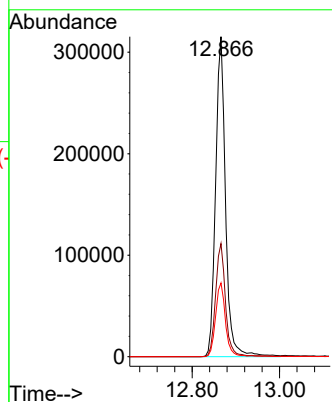
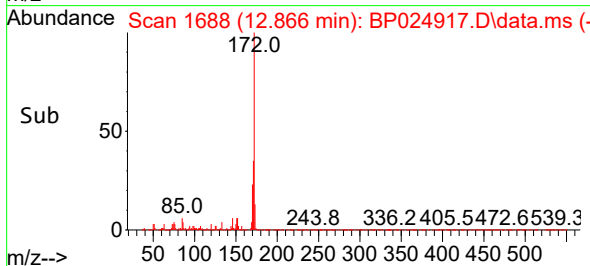
Instrument :
BNA_P
ClientSampleId :
B-187-SB01DL



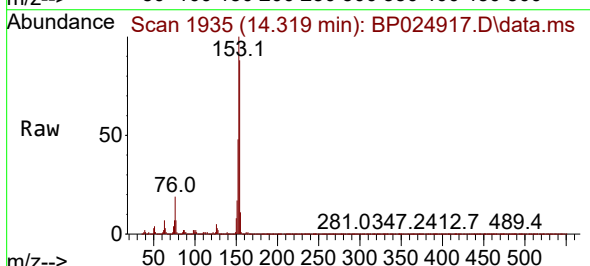
Tgt Ion:172 Resp: 499450
Ion Ratio Lower Upper
172 100
171 35.3 28.3 42.5
170 23.0 19.0 28.4

Manual Integrations
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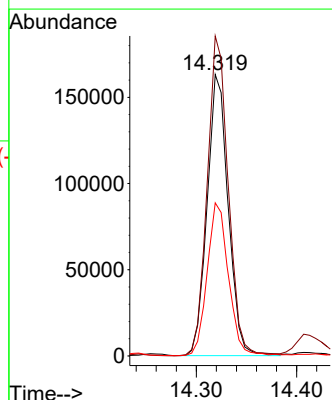
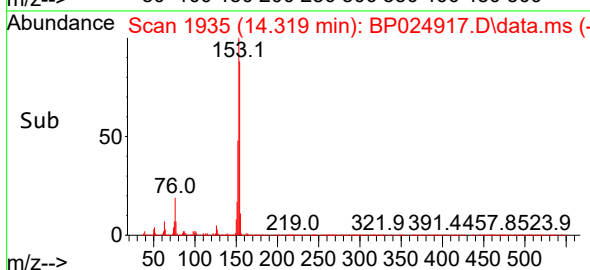
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

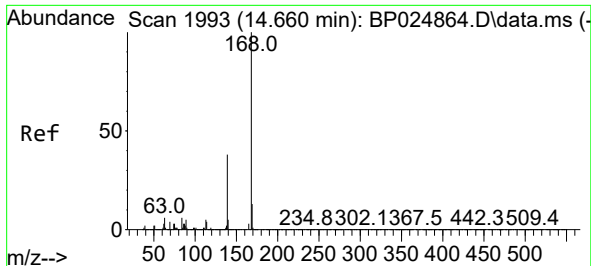


#52
Acenaphthene
Concen: 8.388 ng
RT: 14.319 min Scan# 1935
Delta R.T. 0.006 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27



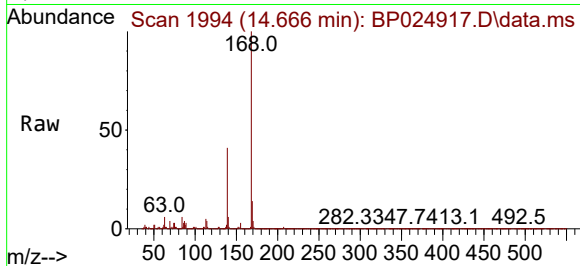
Tgt Ion:154 Resp: 238656
Ion Ratio Lower Upper
154 100
153 113.7 90.5 135.7
152 54.4 42.1 63.1





#55
Dibenzenofuran
Concen: 4.710 ng
RT: 14.666 min Scan# 1994
Delta R.T. 0.006 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

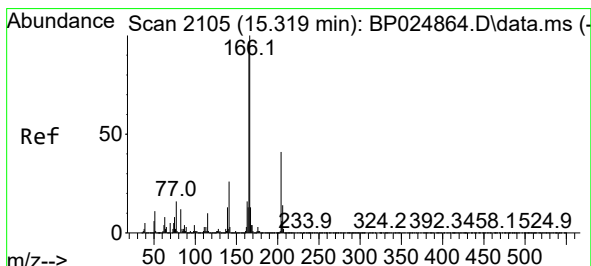
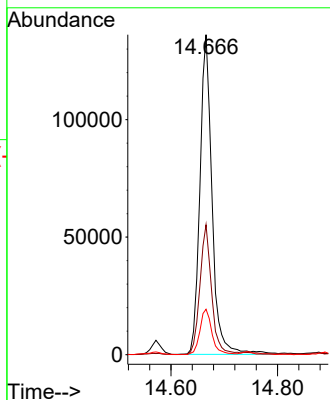
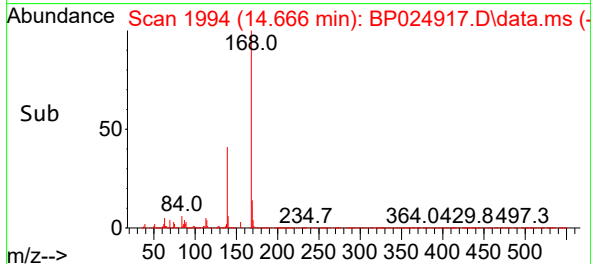
Instrument :
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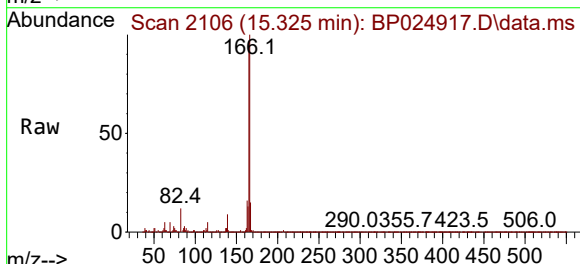
Tgt Ion:168 Resp: 215094
Ion Ratio Lower Upper
168 100
139 40.6 31.6 47.4
169 14.2 10.6 15.8

Manual Integrations
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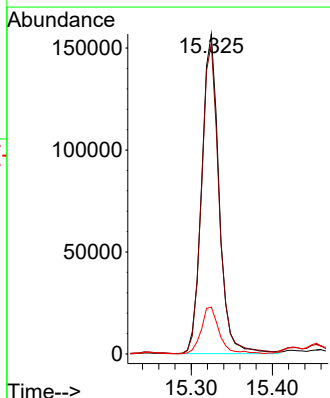
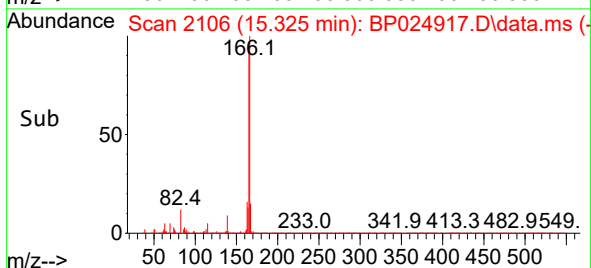
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

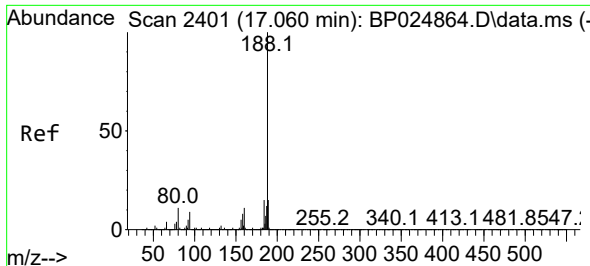


#58
Fluorene
Concen: 6.290 ng
RT: 15.325 min Scan# 2106
Delta R.T. 0.006 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27



Tgt Ion:166 Resp: 232055
Ion Ratio Lower Upper
166 100
165 97.0 77.7 116.5
167 14.7 10.6 16.0





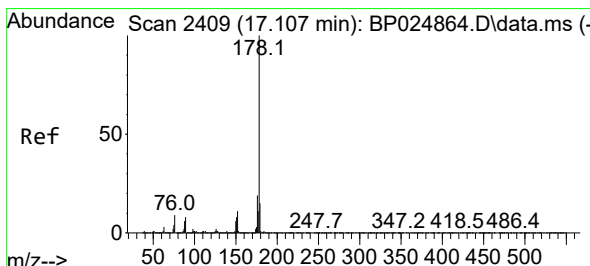
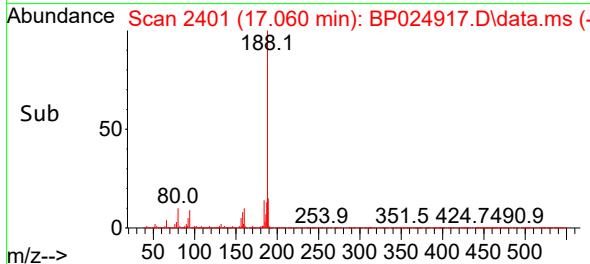
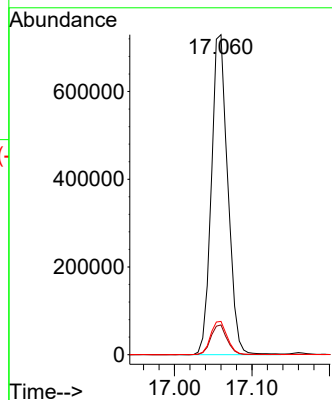
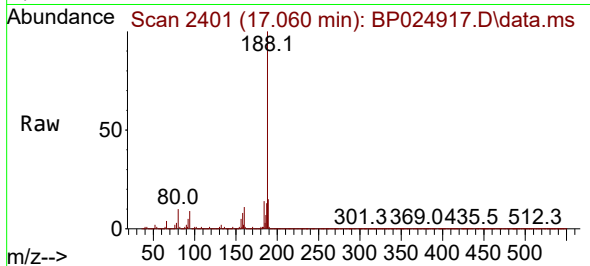
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.060 min Scan# 2401
Delta R.T. -0.000 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

Instrument :
BNA_P
ClientSampleId :
B-187-SB01DL

Tgt Ion:188 Resp: 1070454
Ion Ratio Lower Upper
188 100
94 9.3 7.3 10.9
80 10.4 8.5 12.7

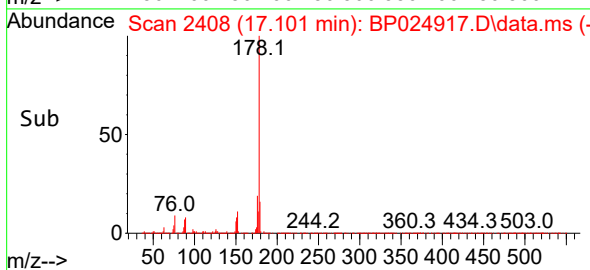
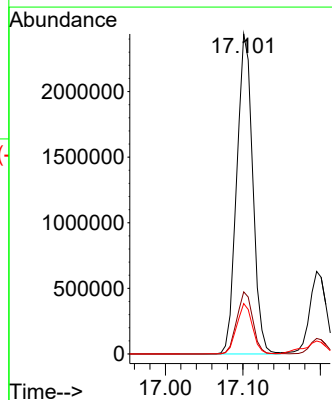
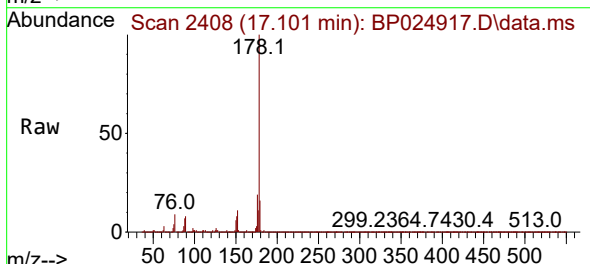
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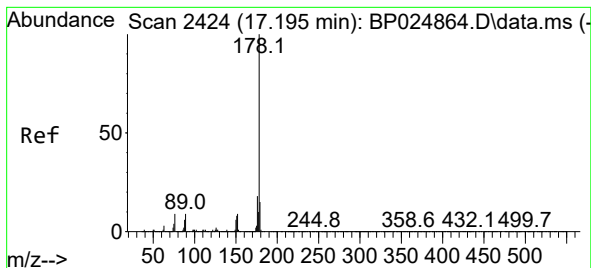
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025



#71
Phenanthrene
Concen: 59.354 ng
RT: 17.101 min Scan# 2408
Delta R.T. -0.006 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

Tgt Ion:178 Resp: 3511051
Ion Ratio Lower Upper
178 100
176 19.4 15.3 22.9
179 15.7 12.1 18.1





#72

Anthracene

Concen: 15.368 ng

RT: 17.195 min Scan# 2424

Delta R.T. -0.000 min

Lab File: BP024917.D

Acq: 11 Jun 2025 18:27

Instrument :

BNA_P

ClientSampleId :

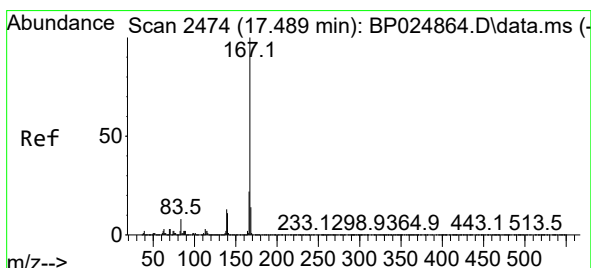
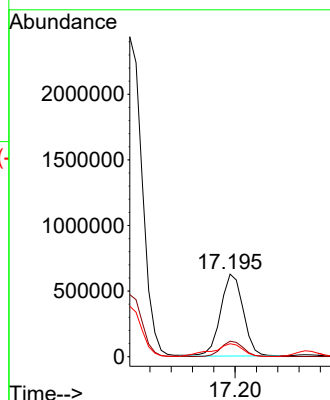
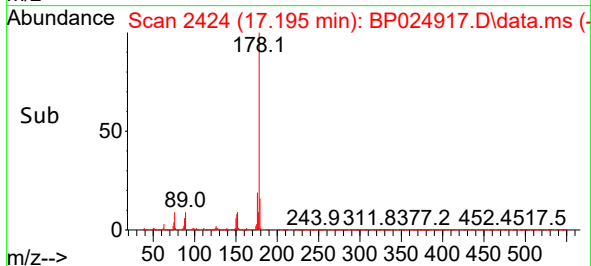
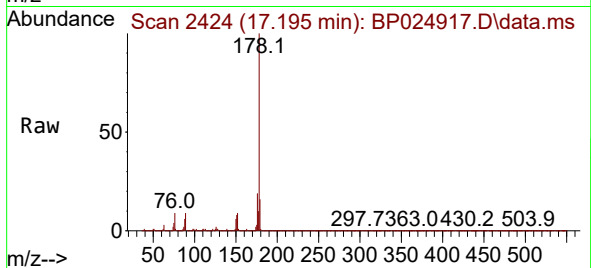
B-187-SB01DL

Tgt Ion:178	Resp: 92071
Ion Ratio	Lower Upper
178 100	
176 18.8	14.7 22.1
179 15.7	12.3 18.5

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Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025



#73

Carbazole

Concen: 5.790 ng

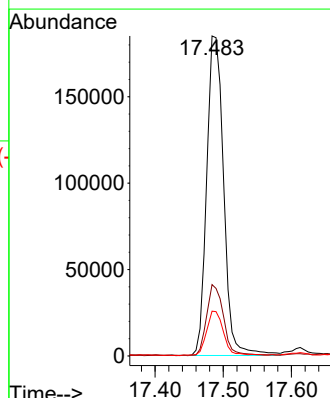
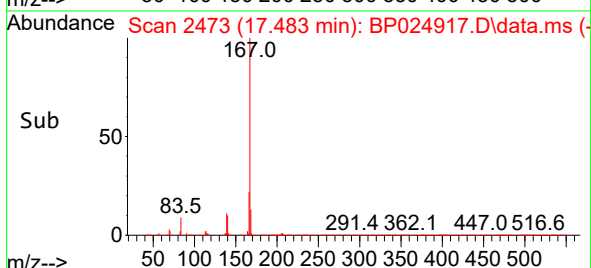
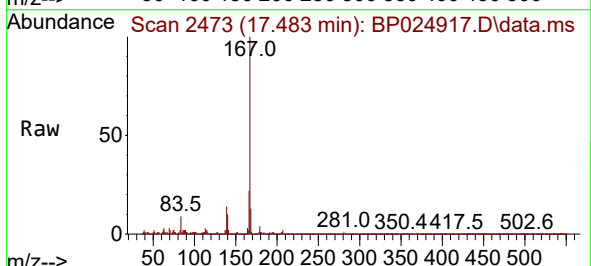
RT: 17.483 min Scan# 2473

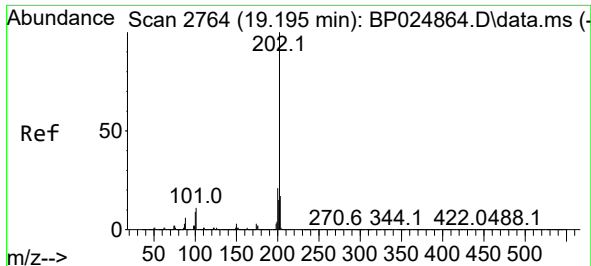
Delta R.T. -0.006 min

Lab File: BP024917.D

Acq: 11 Jun 2025 18:27

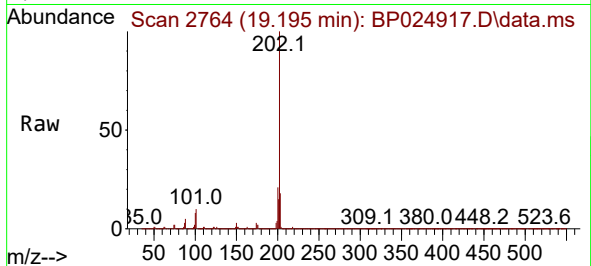
Tgt Ion:167	Resp: 321499
Ion Ratio	Lower Upper
167 100	
166 22.3	17.3 25.9
139 14.0	10.8 16.2





#75
Fluoranthene
Concen: 60.320 ng
RT: 19.195 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

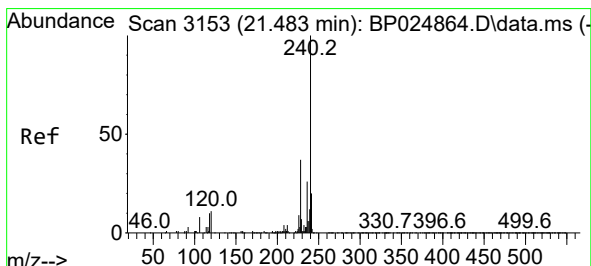
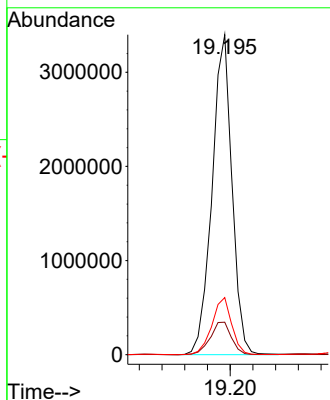
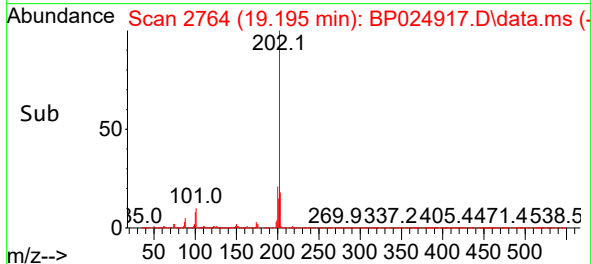
Instrument :
BNA_P
ClientSampleId :
B-187-SB01DL



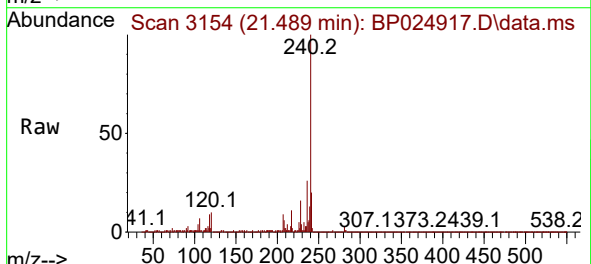
Tgt Ion:202 Resp: 413570
Ion Ratio Lower Upper
202 100
101 10.2 0.0 31.4
203 17.9 0.0 37.5

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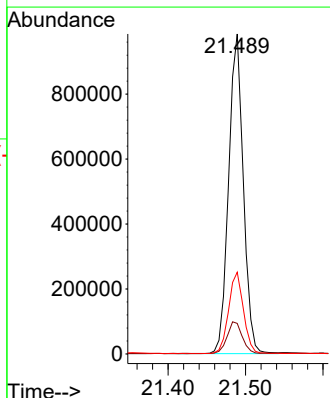
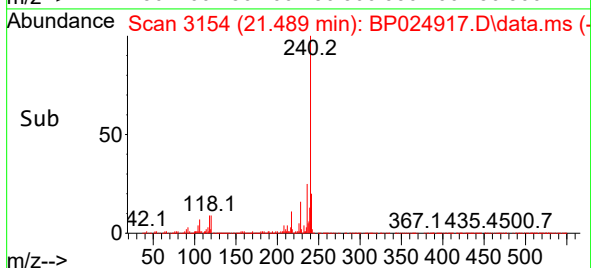
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

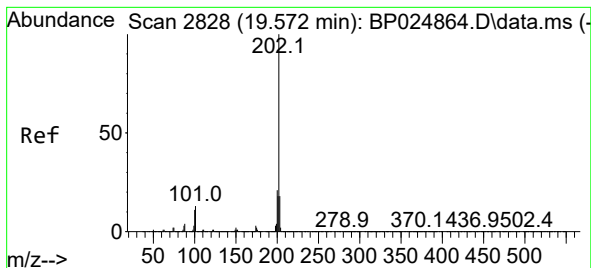


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.489 min Scan# 3154
Delta R.T. 0.006 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27



Tgt Ion:240 Resp: 1300156
Ion Ratio Lower Upper
240 100
120 9.6 8.9 13.3
236 25.6 20.9 31.3





#78

Pyrene

Concen: 45.446 ng

RT: 19.572 min Scan# 2828

Delta R.T. -0.000 min

Lab File: BP024917.D

Acq: 11 Jun 2025 18:27

Instrument :

BNA_P

ClientSampleId :

B-187-SB01DL

Tgt Ion:202 Resp: 369140

Ion Ratio Lower Upper

202 100

200 21.1 17.1 25.7

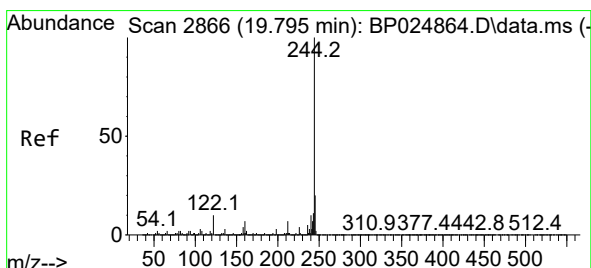
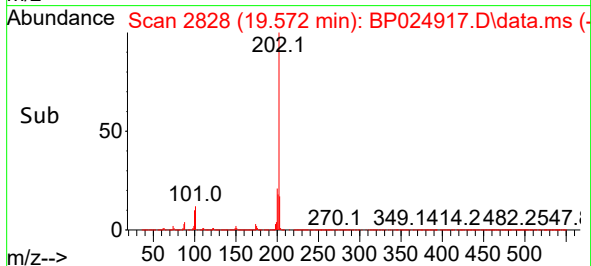
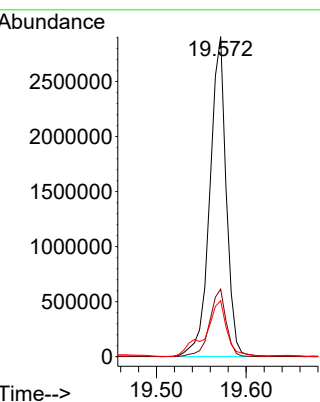
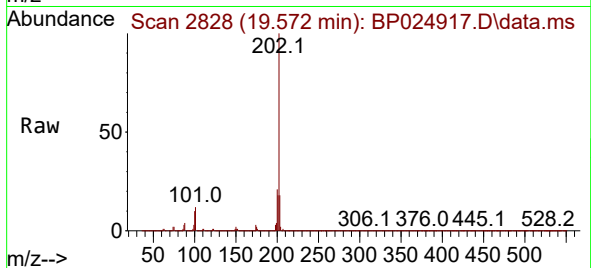
203 17.5 14.0 21.0

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Reviewed By :Anahy Claudio 06/12/2025

Supervised By :mohammad ahmed 06/13/2025



#79

Terphenyl-d14

Concen: 11.627 ng

RT: 19.777 min Scan# 2863

Delta R.T. -0.018 min

Lab File: BP024917.D

Acq: 11 Jun 2025 18:27

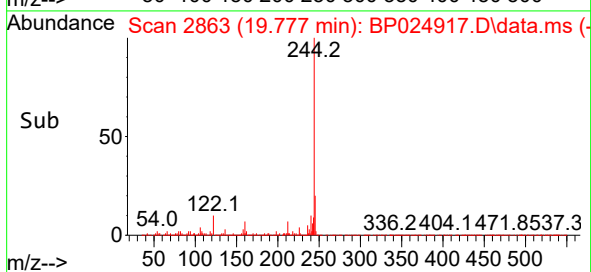
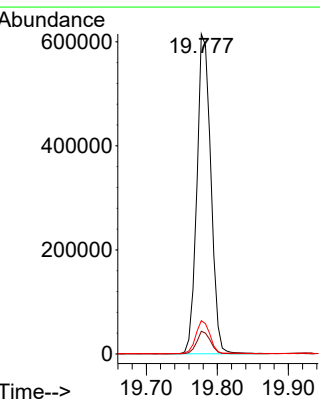
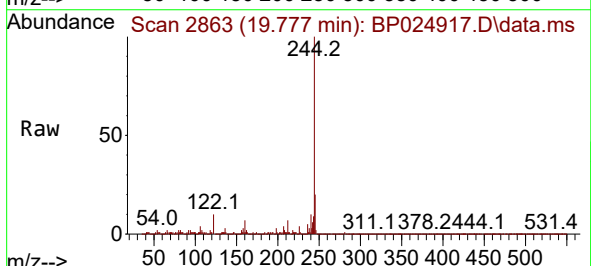
Tgt Ion:244 Resp: 843470

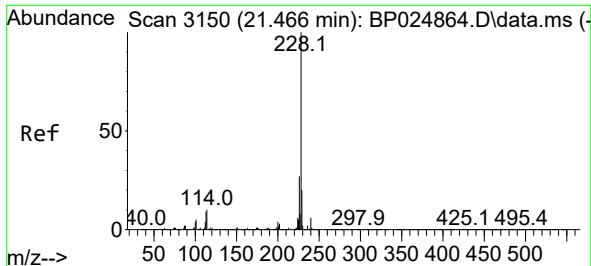
Ion Ratio Lower Upper

244 100

212 7.1 5.6 8.4

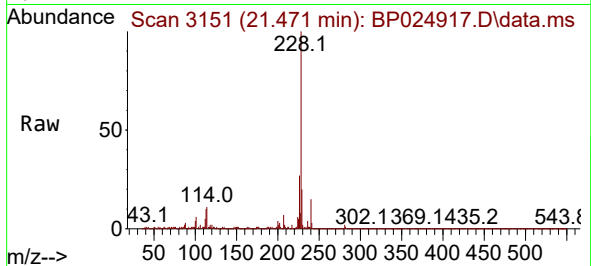
122 10.4 7.7 11.5





#81
Benzo(a)anthracene
Concen: 20.526 ng
RT: 21.471 min Scan# 3151
Delta R.T. 0.006 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

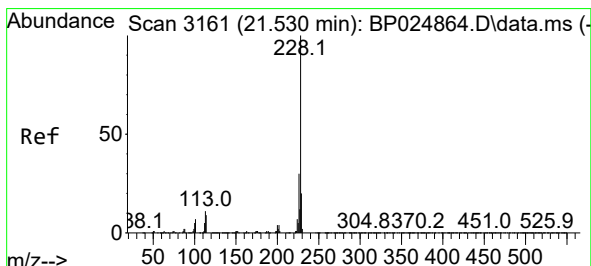
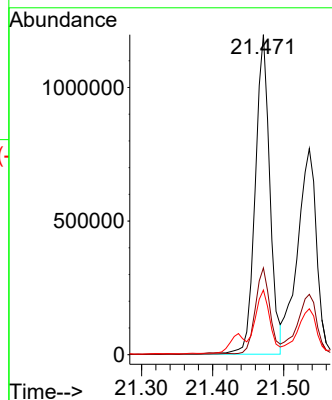
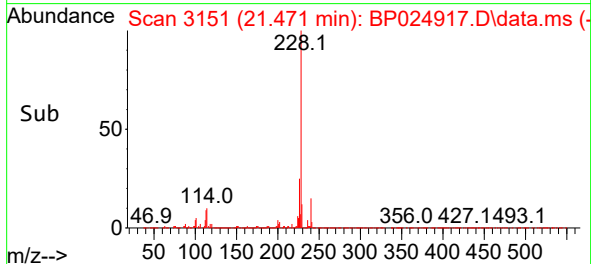
Instrument :
BNA_P
ClientSampleId :
B-187-SB01DL



Tgt Ion:228 Resp: 170683
Ion Ratio Lower Upper
228 100
226 27.1 22.1 33.1
229 20.2 15.9 23.9

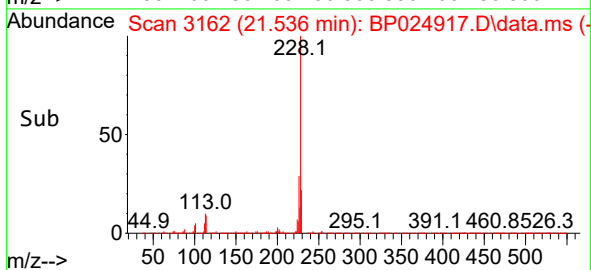
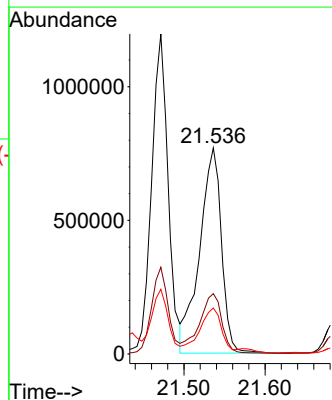
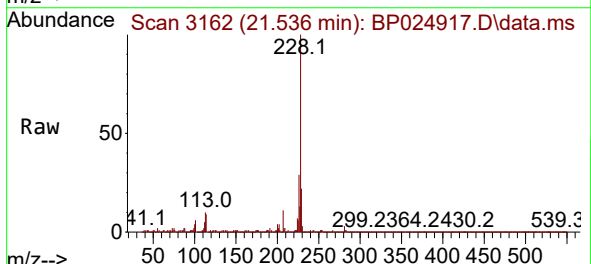
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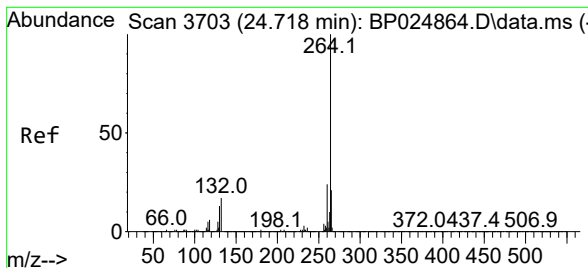
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025



#83
Chrysene
Concen: 18.244 ng
RT: 21.536 min Scan# 3162
Delta R.T. 0.006 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

Tgt Ion:228 Resp: 1437484
Ion Ratio Lower Upper
228 100
226 29.3 23.8 35.6
229 22.3 15.6 23.4





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.754 min Scan# 31

Delta R.T. 0.035 min

Lab File: BP024917.D

Acq: 11 Jun 2025 18:27

Instrument :

BNA_P

ClientSampleId :

B-187-SB01DL

Tgt Ion:264 Resp: 157124

Ion Ratio Lower Upper

264 100

260 23.9 19.0 28.4

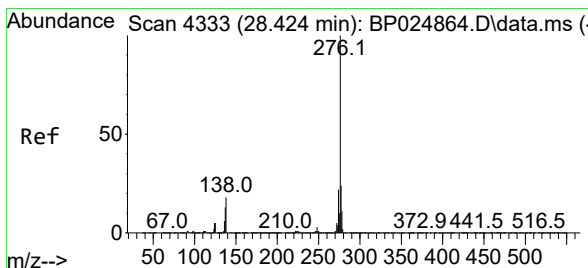
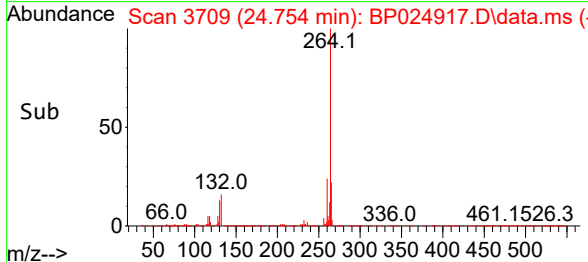
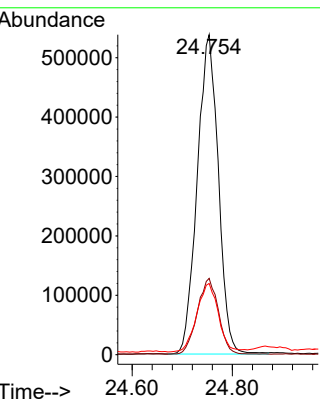
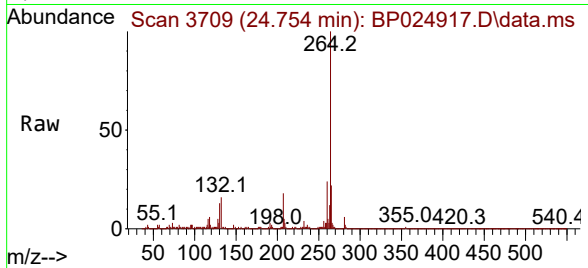
265 22.2 17.4 26.0

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Reviewed By :Anahy Claudio 06/12/2025

Supervised By :mohammad ahmed 06/13/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 8.982 ng

RT: 28.442 min Scan# 4336

Delta R.T. 0.018 min

Lab File: BP024917.D

Acq: 11 Jun 2025 18:27

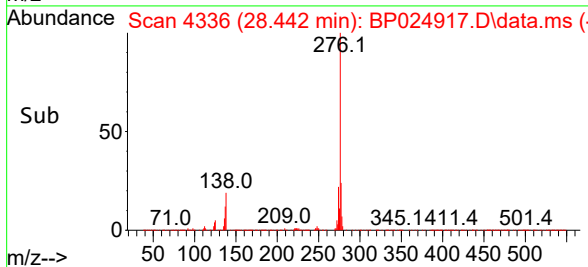
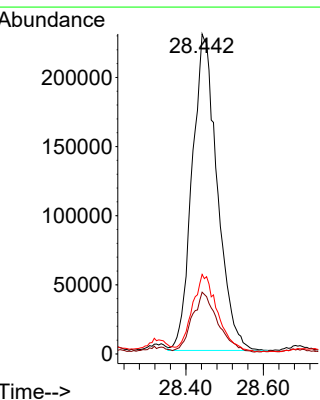
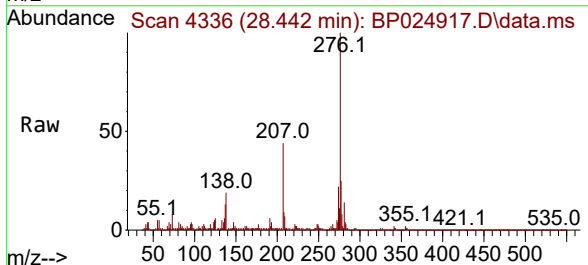
Tgt Ion:276 Resp: 1029739

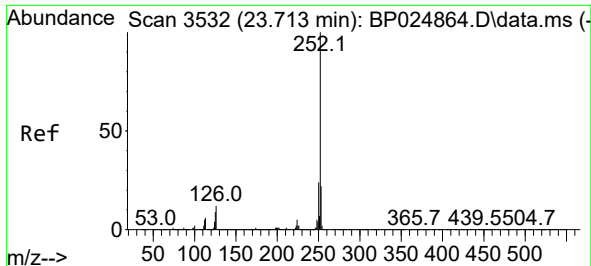
Ion Ratio Lower Upper

276 100

138 19.2 18.6 27.8

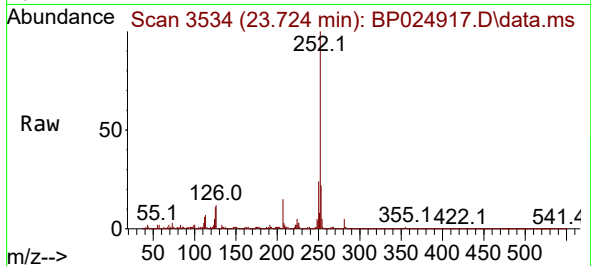
277 24.4 20.2 30.4





#88
Benzo(b)fluoranthene
Concen: 21.208 ng
RT: 23.724 min Scan# 3532
Delta R.T. 0.012 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27

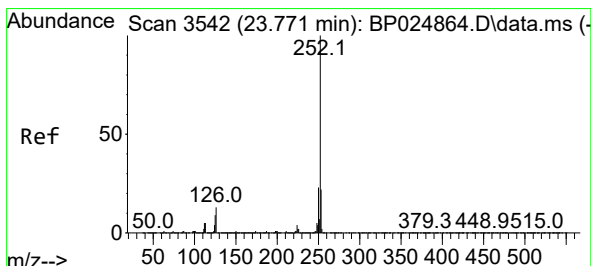
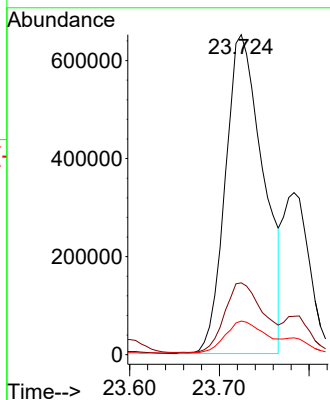
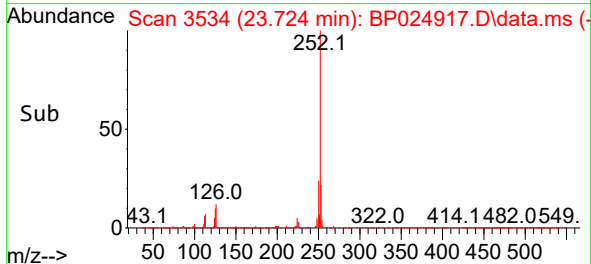
Instrument :
BNA_P
ClientSampleId :
B-187-SB01DL



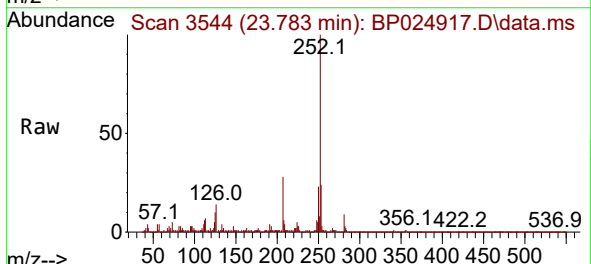
Tgt Ion:252 Resp: 190706
Ion Ratio Lower Upper
252 100
253 22.5 17.6 26.4
125 10.5 7.1 10.7

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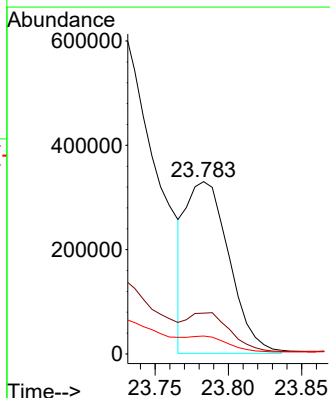
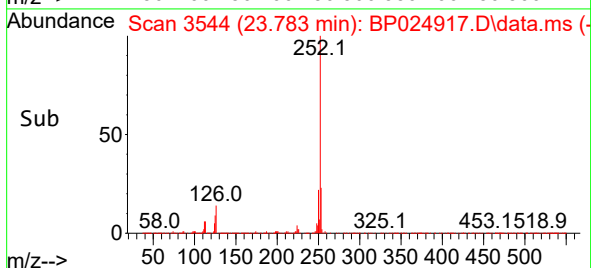
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

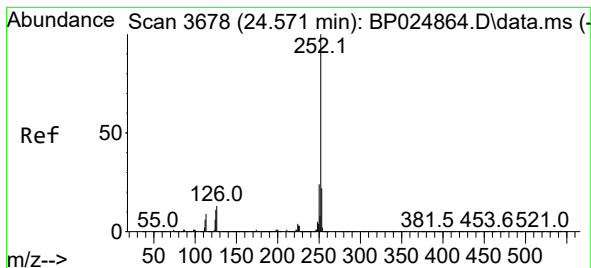


#89
Benzo(k)fluoranthene
Concen: 7.356 ng m
RT: 23.783 min Scan# 3544
Delta R.T. 0.012 min
Lab File: BP024917.D
Acq: 11 Jun 2025 18:27



Tgt Ion:252 Resp: 673277
Ion Ratio Lower Upper
252 100
253 23.7 17.7 26.5
125 10.4 7.4 11.0





#90

Benzo(a)pyrene

Concen: 18.072 ng

RT: 24.601 min Scan# 30

Delta R.T. 0.029 min

Lab File: BP024917.D

Acq: 11 Jun 2025 18:27

Instrument :

BNA_P

ClientSampleId :

B-187-SB01DL

Tgt Ion:252 Resp: 1587050

Ion Ratio Lower Upper

252 100

253 22.8 17.5 26.3

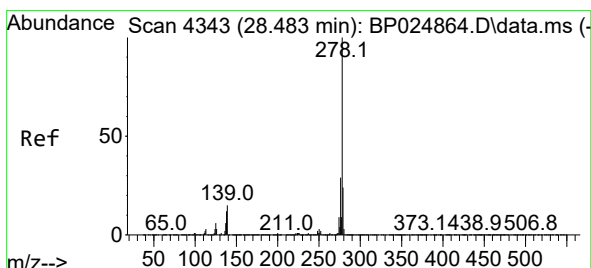
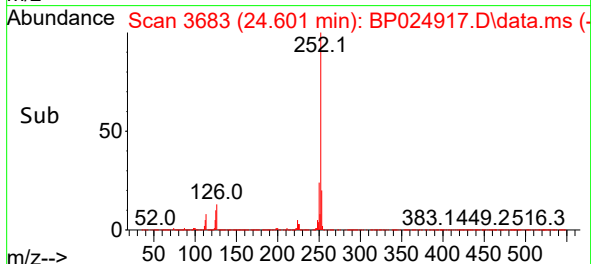
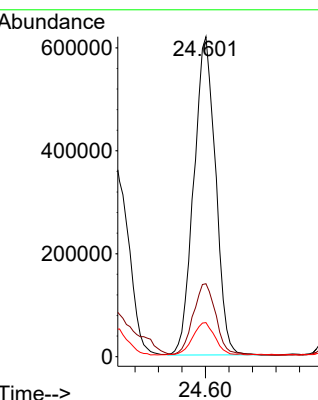
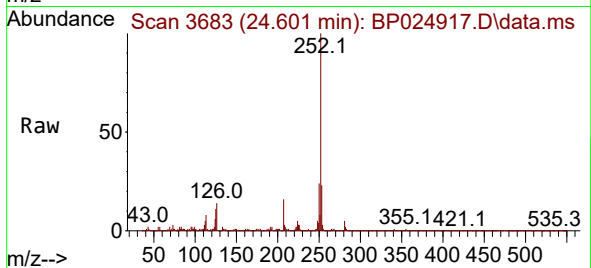
125 10.7 8.8 13.2

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Reviewed By :Anahy Claudio 06/12/2025

Supervised By :mohammad ahmed 06/13/2025



#91

Dibenzo(a,h)anthracene

Concen: 2.459 ng

RT: 28.518 min Scan# 4349

Delta R.T. 0.035 min

Lab File: BP024917.D

Acq: 11 Jun 2025 18:27

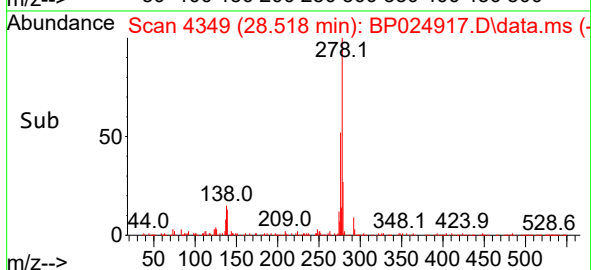
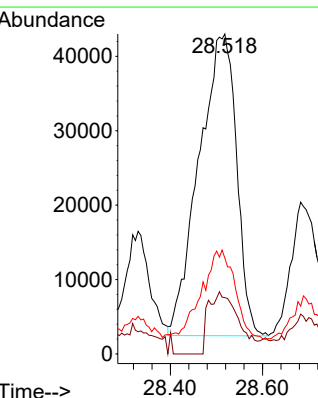
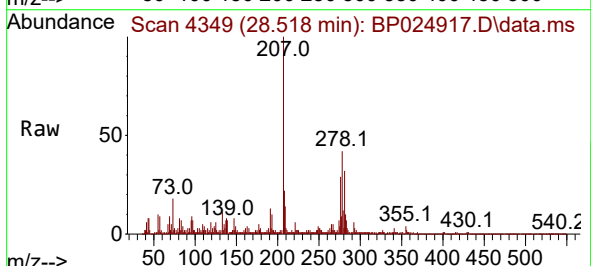
Tgt Ion:278 Resp: 229499

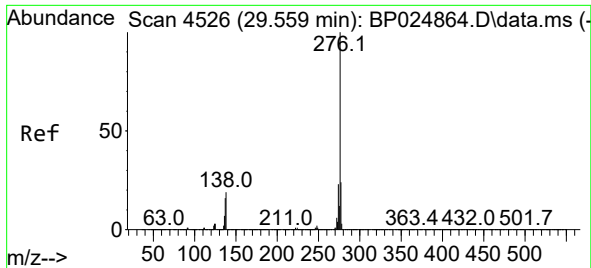
Ion Ratio Lower Upper

278 100

139 17.6 12.0 18.0

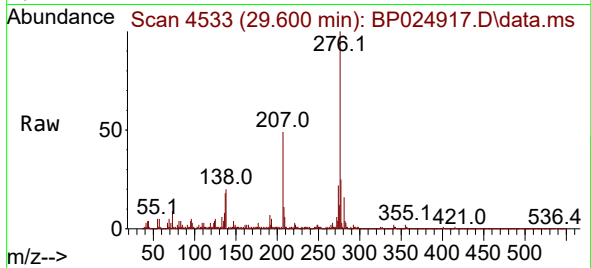
279 29.9 19.1 28.7#





#92
 Benzo(g,h,i)perylene
 Concen: 10.808 ng
 RT: 29.600 min Scan# 4533
 Delta R.T. 0.041 min
 Lab File: BP024917.D
 Acq: 11 Jun 2025 18:27

Instrument :
 BNA_P
 ClientSampleId :
 B-187-SB01DL



Tgt Ion:276 Resp: 1000654
 Ion Ratio Lower Upper
 276 100
 277 25.0 19.1 28.7
 138 19.7 15.4 23.2

Manual Integrations
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Reviewed By :Anahy Claudio 06/12/2025
 Supervised By :mohammad ahmed 06/13/2025

