

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP071625\
 Data File : BP025165.D
 Acq On : 16 Jul 2025 19:40
 Operator : CG/JU
 Sample : Q2598-01 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 OK-01-071425

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 07/17/2025
 Supervised By :Jagrut Upadhyay 07/17/2025

Quant Time: Jul 17 02:46:28 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP070325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 03 16:05:44 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.443	152	652260	20.000	ng	0.00
21) Naphthalene-d8	10.190	136	2289802	20.000	ng	0.00
39) Acenaphthene-d10	14.101	164	1572681	20.000	ng	0.01
64) Phenanthrene-d10	16.913	188	3109314	20.000	ng	0.00
76) Chrysene-d12	21.348	240	2922632	20.000	ng	0.00
86) Perylene-d12	24.507	264	3686825	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.102	112	1338487	36.360	ng	0.00
7) Phenol-d6	6.637	99	1702981	35.450	ng	0.00
23) Nitrobenzene-d5	8.572	82	980531	28.479	ng	0.00
42) 2,4,6-Tribromophenol	15.631	330	747323	40.225	ng	0.01
45) 2-Fluorobiphenyl	12.701	172	2451660	24.150	ng	0.00
79) Terphenyl-d14	19.678	244	4253906	31.989	ng	0.00
Target Compounds						Qvalue
37) 2-Methylnaphthalene	11.866	142	188808	2.270	ng	99
38) 1-Methylnaphthalene	12.102	142	256230	3.158	ng	# 97
49) Acenaphthylene	13.813	152	985396	7.486	ng	99
52) Acenaphthene	14.166	154	570083	6.719	ng	99
55) Dibenzofuran	14.507	168	500770	3.577	ng	99
58) Fluorene	15.172	166	1003409	9.265	ng	99
71) Phenanthrene	16.960	178	8541587	51.411	ng	100
72) Anthracene	17.060	178	3601663	22.596	ng	99
73) Carbazole	17.337	167	402638	2.584	ng	95
75) Fluoranthene	19.054	202	13541151	69.726	ng	94
78) Pyrene	19.436	202	14618662	80.756	ng	# 86
81) Benzo(a)anthracene	21.330	228	7966061	44.976	ng	95
83) Chrysene	21.395	228	7669478m	44.997	ng	
87) Indeno(1,2,3-cd)pyrene	28.036	276	5538967	23.583	ng	# 90
88) Benzo(b)fluoranthene	23.519	252	9516771	44.348	ng	99
89) Benzo(k)fluoranthene	23.577	252	3291821m	15.417	ng	
90) Benzo(a)pyrene	24.354	252	8149400	44.620	ng	98
91) Dibenzo(a,h)anthracene	28.107	278	1453481	7.487	ng	# 90
92) Benzo(g,h,i)perylene	29.130	276	5567253	27.759	ng	99

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

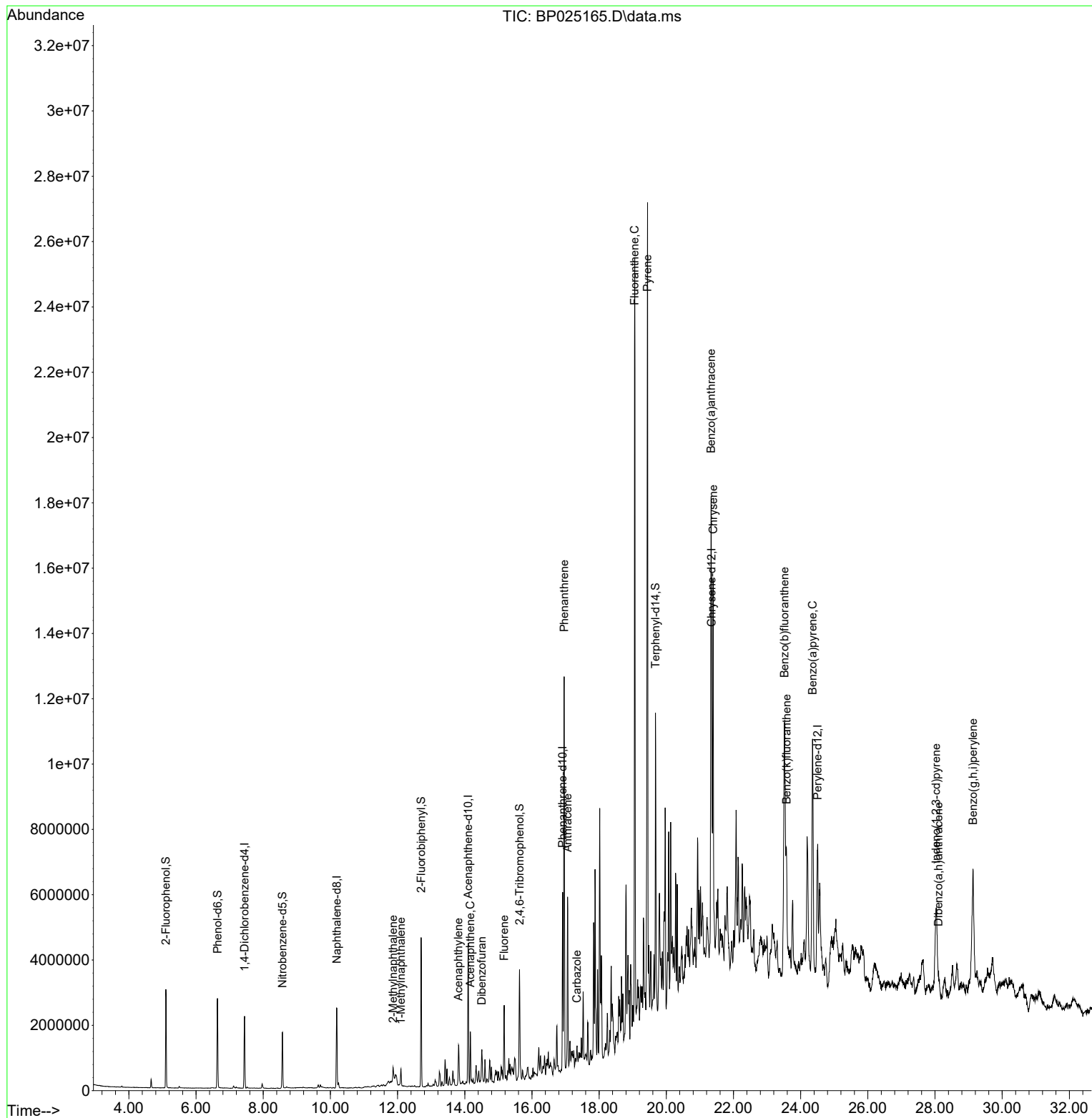
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP071625\
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APPROVED

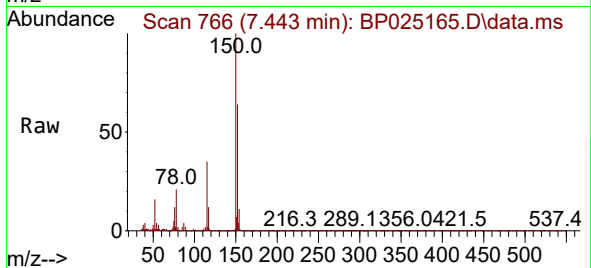
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.443 min Scan# 766
Delta R.T. -0.000 min
Lab File: BP025165.D
Acq: 16 Jul 2025 19:40

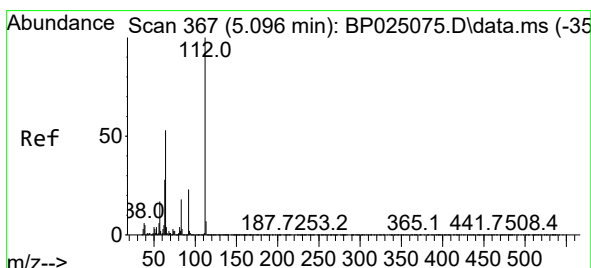
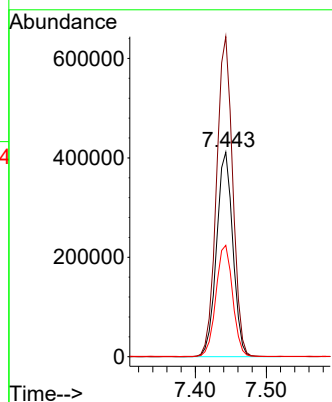
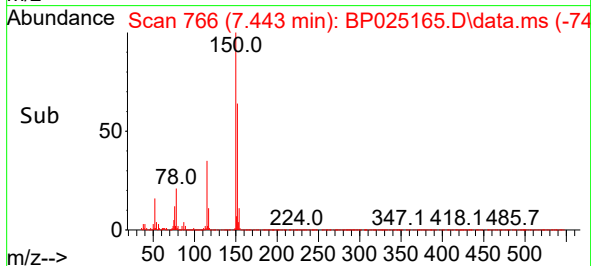
Instrument :
BNA_P
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OK-01-071425



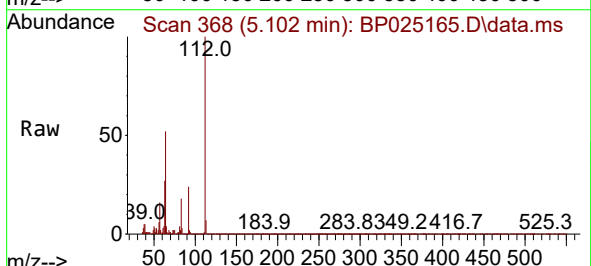
Tgt Ion:152 Resp: 652260
Ion Ratio Lower Upper
152 100
150 156.5 126.1 189.1
115 54.5 44.3 66.5

Manual Integrations
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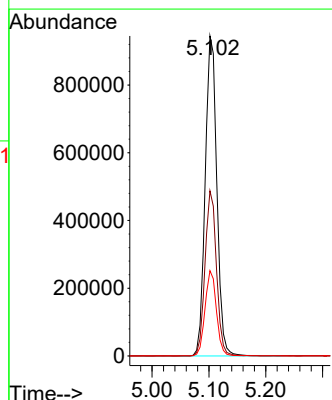
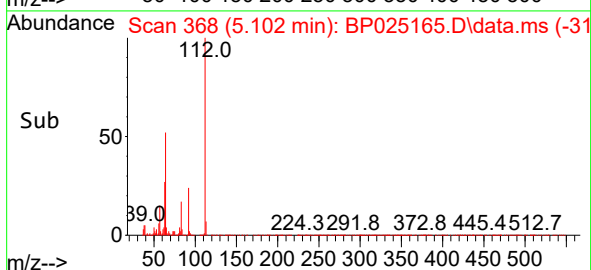
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

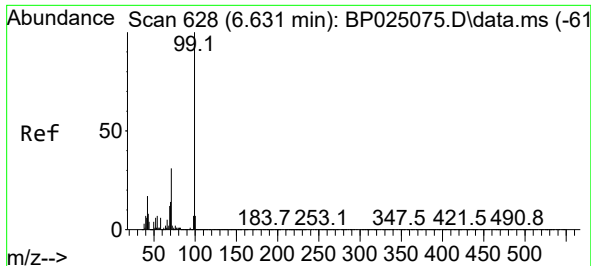


#5
2-Fluorophenol
Concen: 36.360 ng
RT: 5.102 min Scan# 368
Delta R.T. 0.006 min
Lab File: BP025165.D
Acq: 16 Jul 2025 19:40



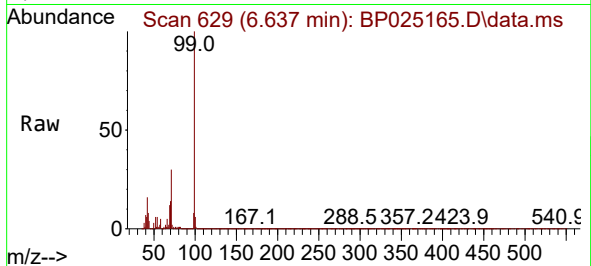
Tgt Ion:112 Resp: 1338487
Ion Ratio Lower Upper
112 100
64 51.6 42.0 63.0
63 26.7 22.2 33.2





#7
Phenol-d6
Concen: 35.450 ng
RT: 6.637 min Scan# 61
Delta R.T. 0.006 min
Lab File: BP025165.D
Acq: 16 Jul 2025 19:40

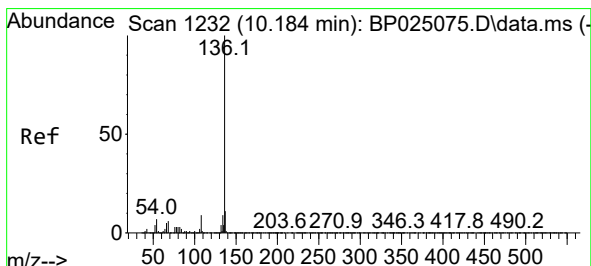
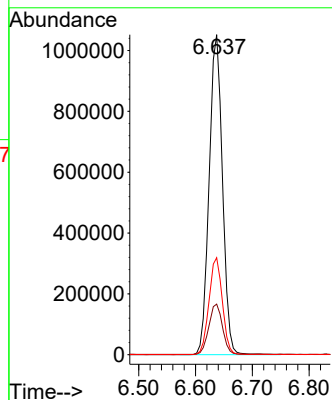
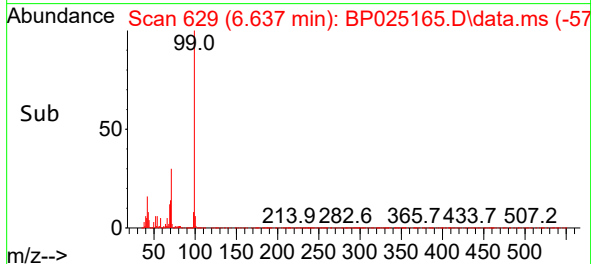
Instrument :
BNA_P
ClientSampleId :
OK-01-071425



Tgt Ion: 99 Resp: 170298
Ion Ratio Lower Upper
99 100
42 15.8 13.6 20.4
71 30.3 24.4 36.6

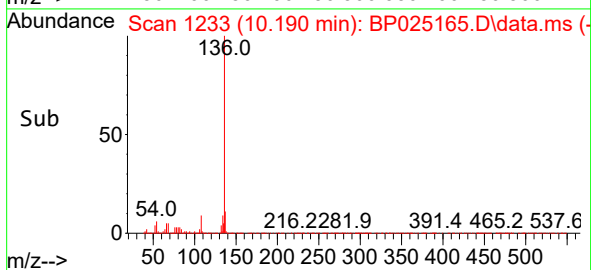
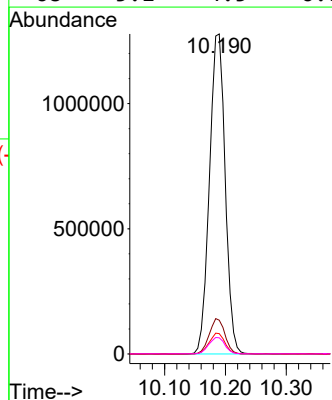
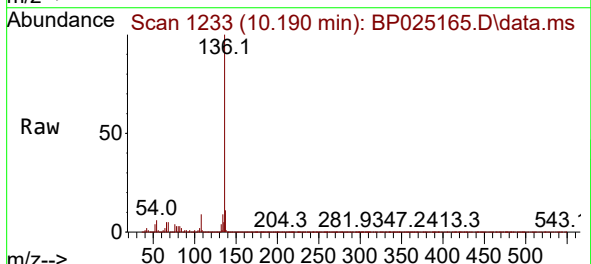
Manual Integrations
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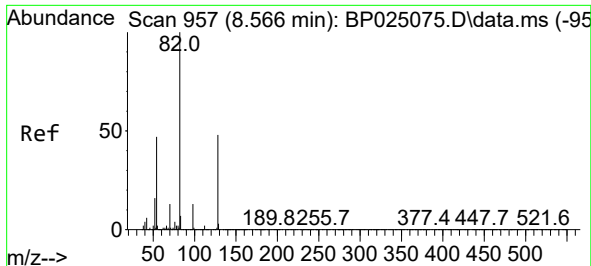
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.190 min Scan# 1233
Delta R.T. 0.006 min
Lab File: BP025165.D
Acq: 16 Jul 2025 19:40

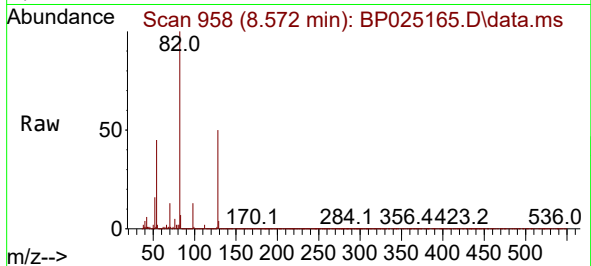
Tgt Ion:136 Resp: 2289802
Ion Ratio Lower Upper
136 100
137 10.5 8.7 13.1
54 6.4 5.4 8.2
68 5.1 4.5 6.7





#23
Nitrobenzene-d5
Concen: 28.479 ng
RT: 8.572 min Scan# 91
Delta R.T. 0.006 min
Lab File: BP025165.D
Acq: 16 Jul 2025 19:40

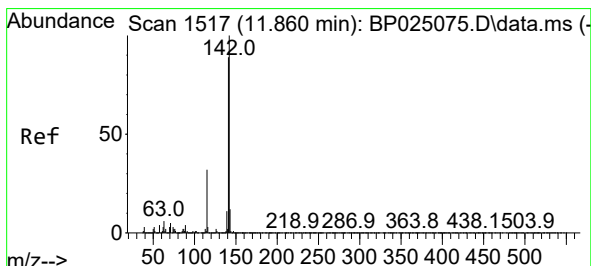
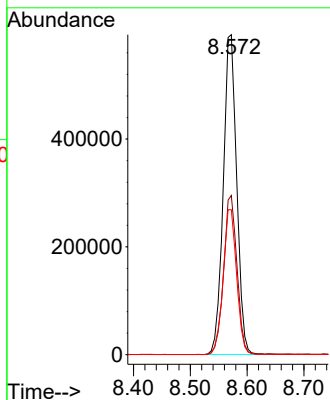
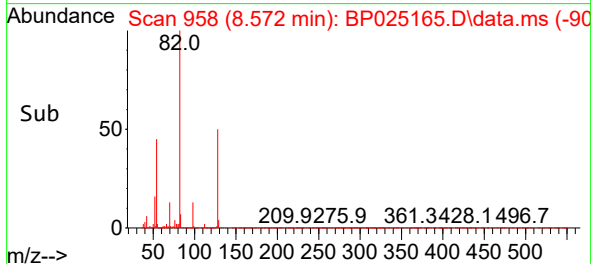
Instrument :
BNA_P
ClientSampleId :
OK-01-071425



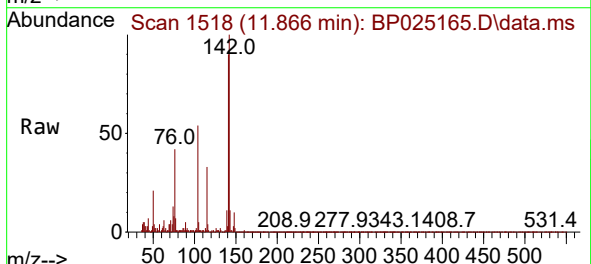
Tgt Ion: 82 Resp: 98053
Ion Ratio Lower Upper
82 100
128 49.8 38.4 57.6
54 45.3 37.8 56.6

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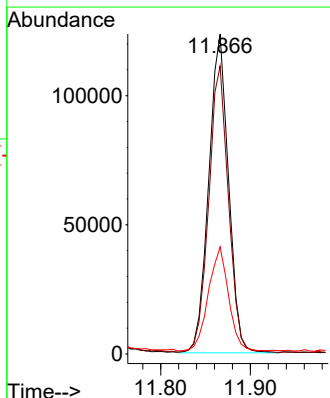
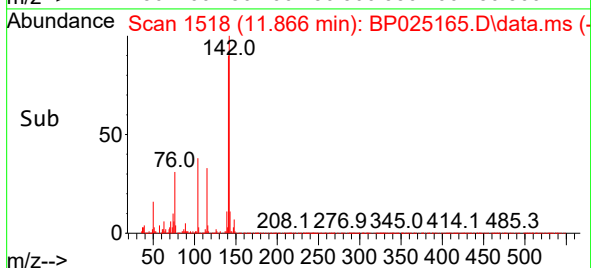
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

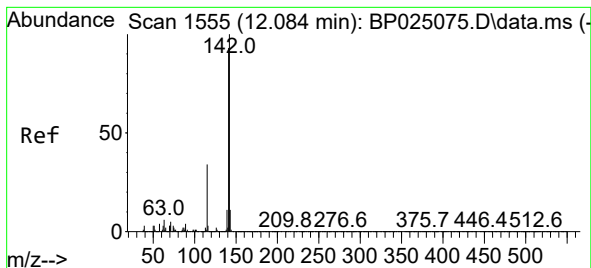


#37
2-Methylnaphthalene
Concen: 2.270 ng
RT: 11.866 min Scan# 1518
Delta R.T. 0.006 min
Lab File: BP025165.D
Acq: 16 Jul 2025 19:40



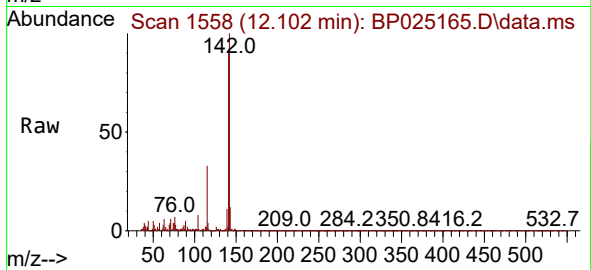
Tgt Ion:142 Resp: 188808
Ion Ratio Lower Upper
142 100
141 90.0 71.2 106.8
115 33.5 25.9 38.9





#38
1-Methylnaphthalene
Concen: 3.158 ng
RT: 12.102 min Scan# 1558
Delta R.T. 0.018 min
Lab File: BP025165.D
Acq: 16 Jul 2025 19:40

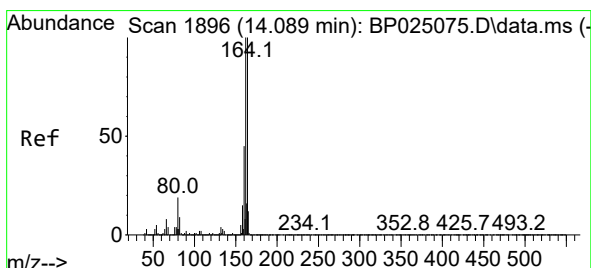
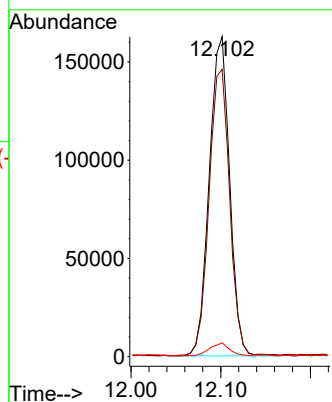
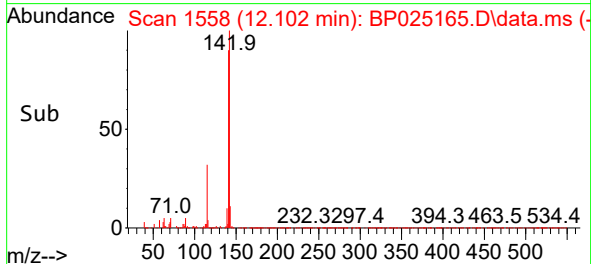
Instrument :
BNA_P
ClientSampleId :
OK-01-071425



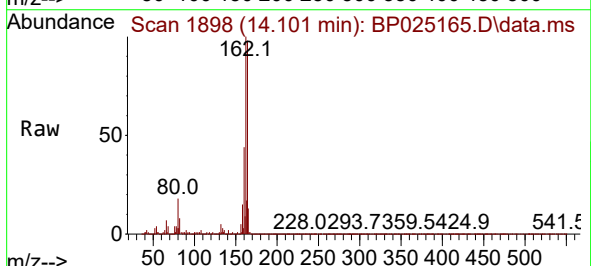
Tgt Ion:142 Resp: 256230
Ion Ratio Lower Upper
142 100
141 89.8 74.1 111.1
116 4.4 2.7 4.1

Manual Integrations
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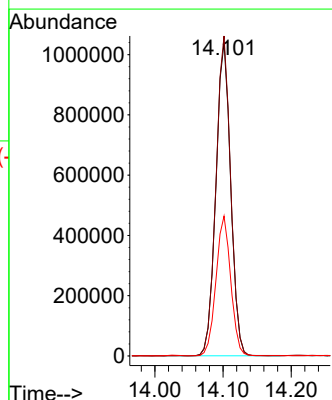
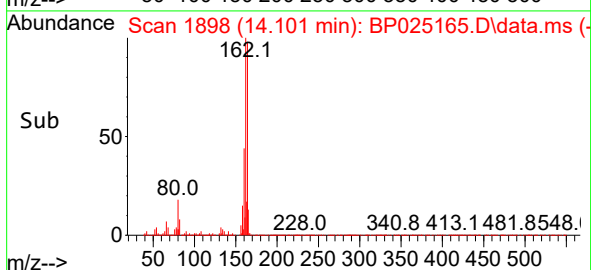
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

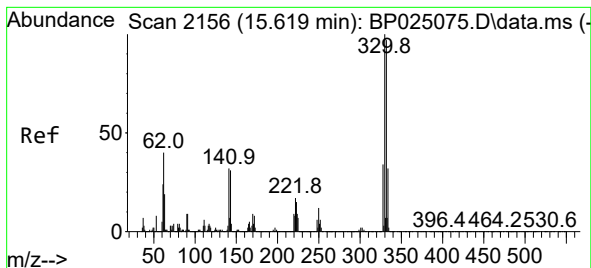


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.101 min Scan# 1898
Delta R.T. 0.012 min
Lab File: BP025165.D
Acq: 16 Jul 2025 19:40



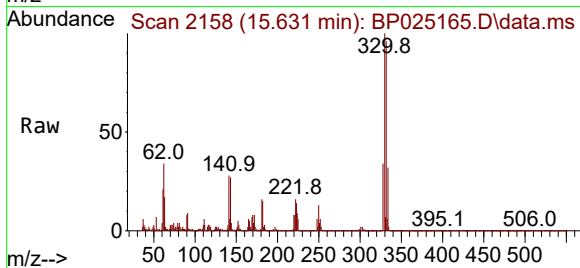
Tgt Ion:164 Resp: 1572681
Ion Ratio Lower Upper
164 100
162 102.2 80.3 120.5
160 44.6 35.9 53.9





#42
2,4,6-Tribromophenol
Concen: 40.225 ng
RT: 15.631 min Scan# 2156
Delta R.T. 0.012 min
Lab File: BP025165.D
Acq: 16 Jul 2025 19:40

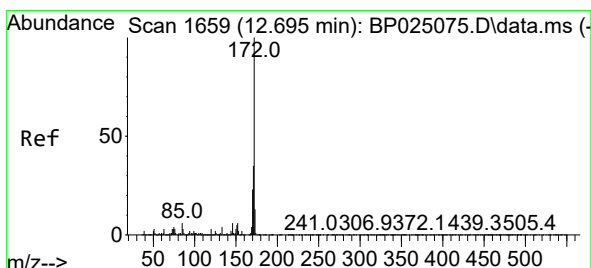
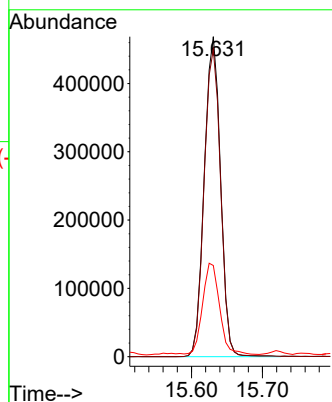
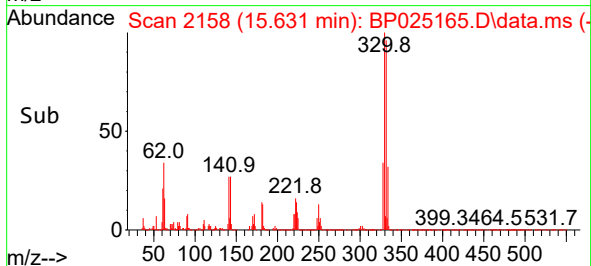
Instrument :
BNA_P
ClientSampleId :
OK-01-071425



Tgt Ion: 330 Resp: 74732
Ion Ratio Lower Upper
330 100
332 97.2 77.7 116.5
141 29.8 26.0 39.0

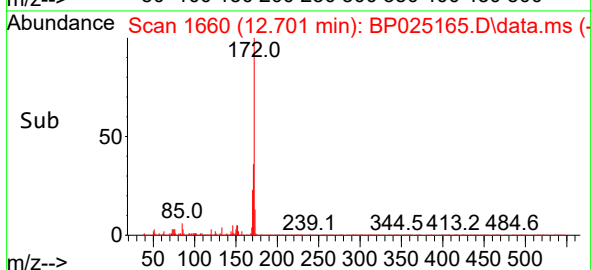
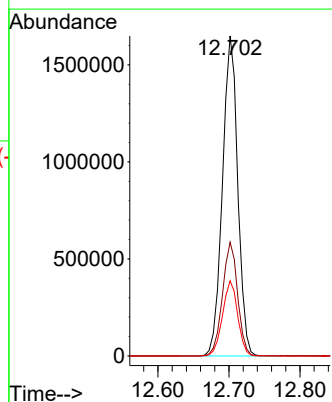
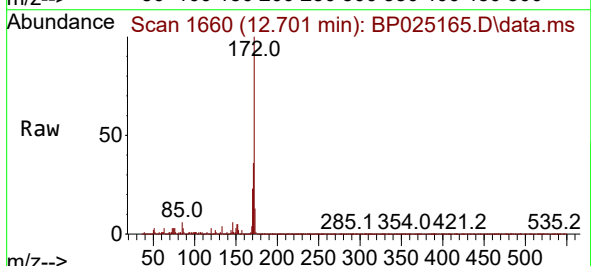
Manual Integrations
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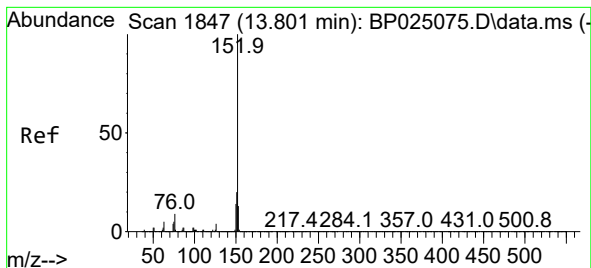
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025



#45
2-Fluorobiphenyl
Concen: 24.150 ng
RT: 12.701 min Scan# 1660
Delta R.T. 0.006 min
Lab File: BP025165.D
Acq: 16 Jul 2025 19:40

Tgt Ion: 172 Resp: 2451660
Ion Ratio Lower Upper
172 100
171 35.6 28.2 42.2
170 23.5 18.7 28.1





#49

Acenaphthylene

Concen: 7.486 ng

RT: 13.813 min Scan# 11

Delta R.T. 0.012 min

Lab File: BP025165.D

Acq: 16 Jul 2025 19:40

Instrument :

BNA_P

ClientSampleId :

OK-01-071425

Tgt Ion:152 Resp: 985390

Ion Ratio Lower Upper

152 100

151 19.9 16.1 24.1

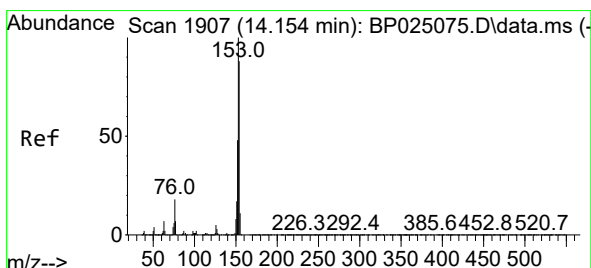
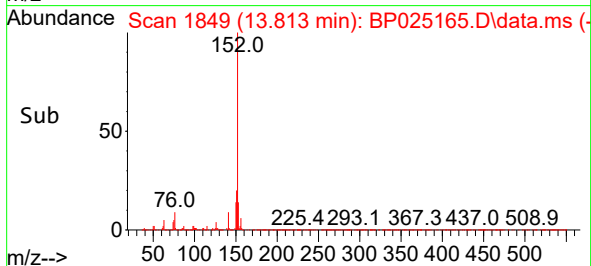
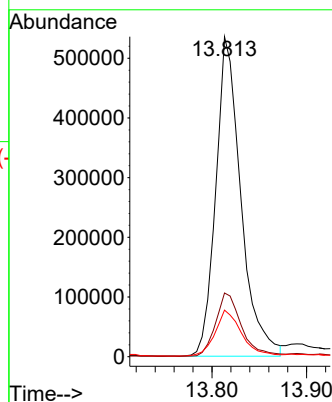
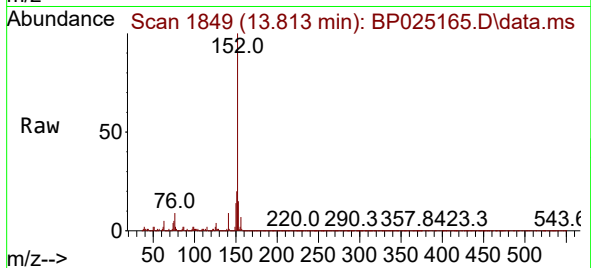
153 14.6 10.7 16.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 07/17/2025

Supervised By :Jagrut Upadhyay 07/17/2025



#52

Acenaphthene

Concen: 6.719 ng

RT: 14.166 min Scan# 1909

Delta R.T. 0.012 min

Lab File: BP025165.D

Acq: 16 Jul 2025 19:40

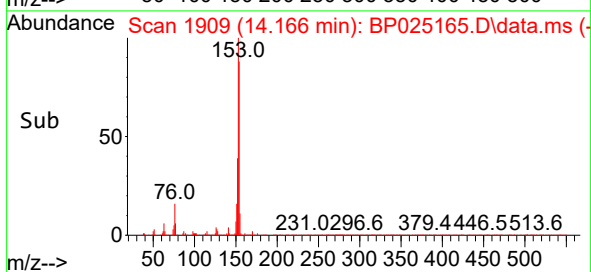
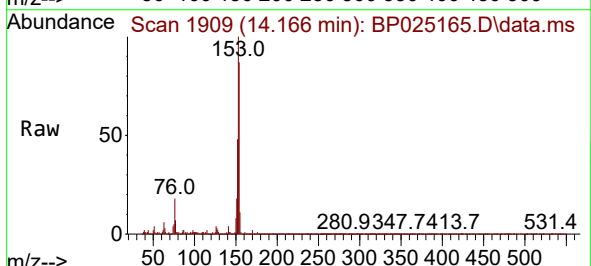
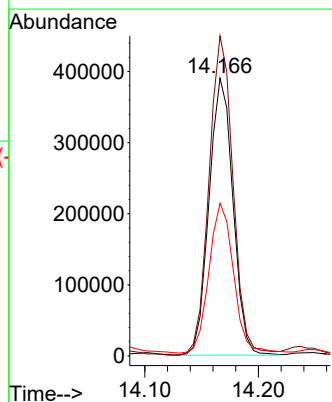
Tgt Ion:154 Resp: 570083

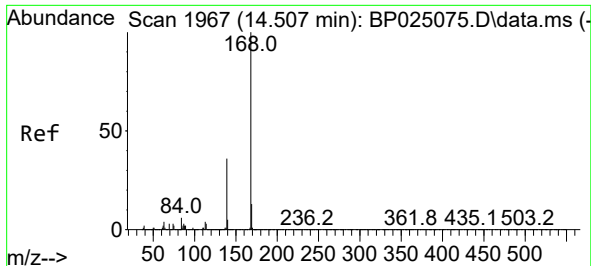
Ion Ratio Lower Upper

154 100

153 115.2 90.6 136.0

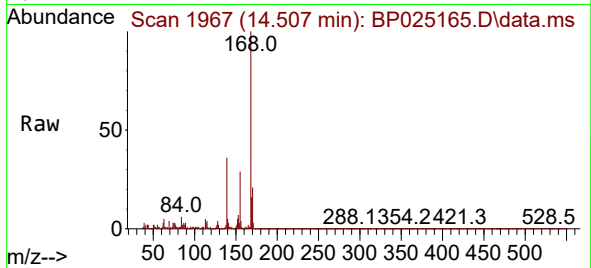
152 55.0 43.8 65.8





#55
Dibenzenofuran
Concen: 3.577 ng
RT: 14.507 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BP025165.D
Acq: 16 Jul 2025 19:40

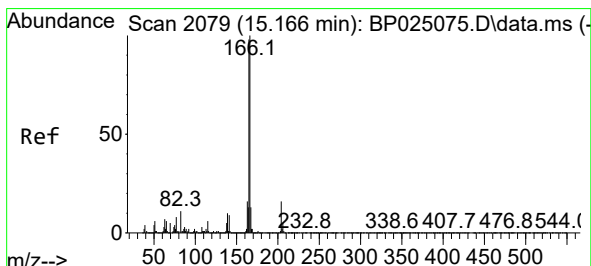
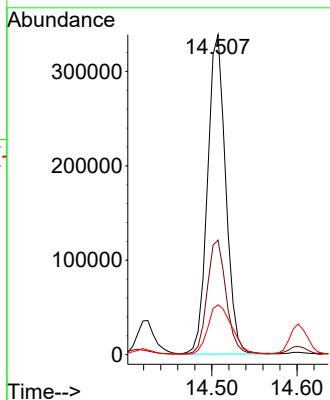
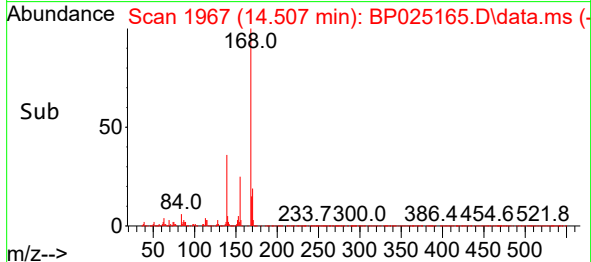
Instrument :
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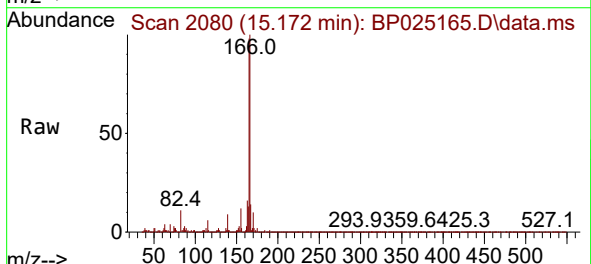
Tgt Ion:168 Resp: 500770
Ion Ratio Lower Upper
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139 35.8 28.6 43.0
169 15.6 10.7 16.1

Manual Integrations
APPROVED

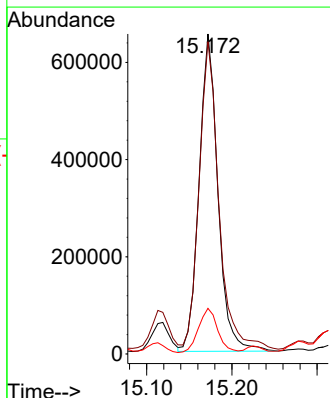
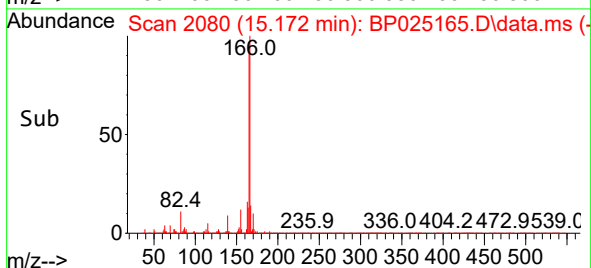
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

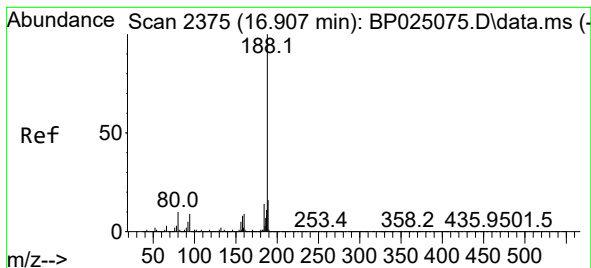


#58
Fluorene
Concen: 9.265 ng
RT: 15.172 min Scan# 2080
Delta R.T. 0.006 min
Lab File: BP025165.D
Acq: 16 Jul 2025 19:40



Tgt Ion:166 Resp: 1003409
Ion Ratio Lower Upper
166 100
165 97.6 78.6 117.8
167 14.3 10.7 16.1





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 16.913 min Scan# 21

Delta R.T. 0.006 min

Lab File: BP025165.D

Acq: 16 Jul 2025 19:40

Instrument :

BNA_P

ClientSampleId :

OK-01-071425

Tgt Ion:188 Resp: 3109314

Ion Ratio Lower Upper

188 100

94 8.8 7.3 10.9

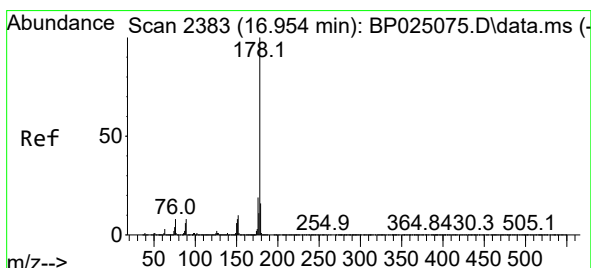
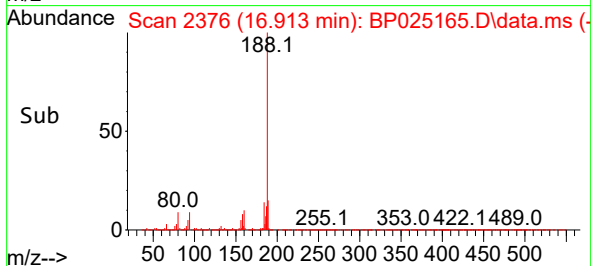
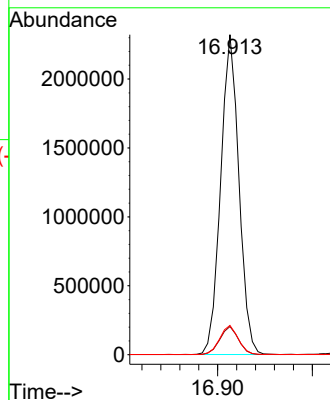
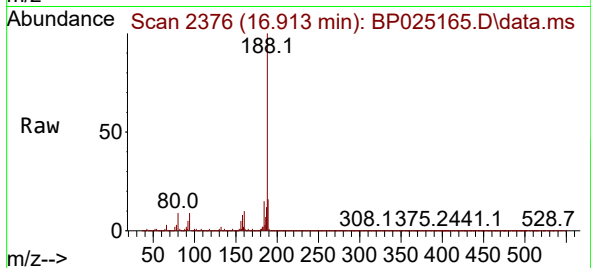
80 9.1 7.8 11.6

Manual Integrations

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Reviewed By :Rahul Chavli 07/17/2025

Supervised By :Jagrut Upadhyay 07/17/2025



#71

Phenanthrene

Concen: 51.411 ng

RT: 16.960 min Scan# 2384

Delta R.T. 0.006 min

Lab File: BP025165.D

Acq: 16 Jul 2025 19:40

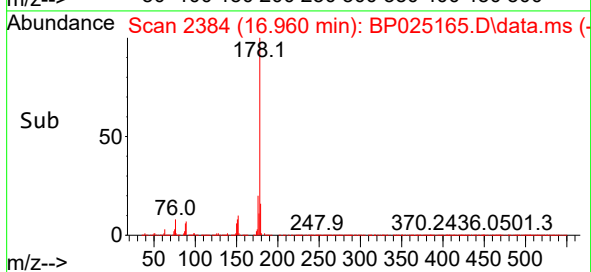
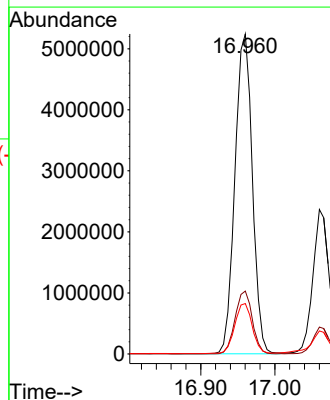
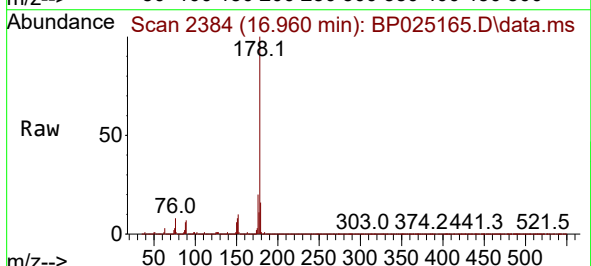
Tgt Ion:178 Resp: 8541587

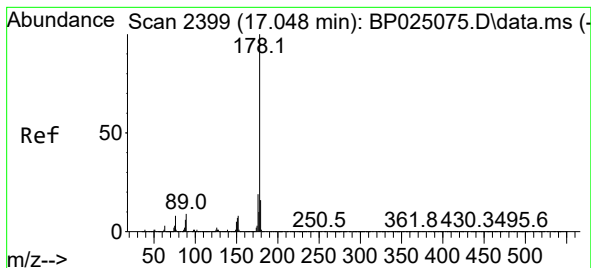
Ion Ratio Lower Upper

178 100

176 19.6 15.4 23.2

179 15.7 12.6 19.0





#72

Anthracene

Concen: 22.596 ng

RT: 17.060 min Scan# 2401

Delta R.T. 0.012 min

Lab File: BP025165.D

Acq: 16 Jul 2025 19:40

Instrument :

BNA_P

ClientSampleId :

OK-01-071425

Tgt Ion:178 Resp: 360166

Ion Ratio Lower Upper

178 100

176 18.6 15.0 22.6

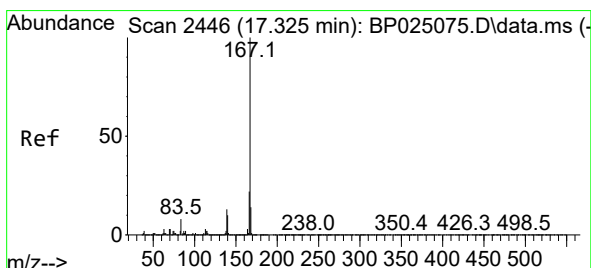
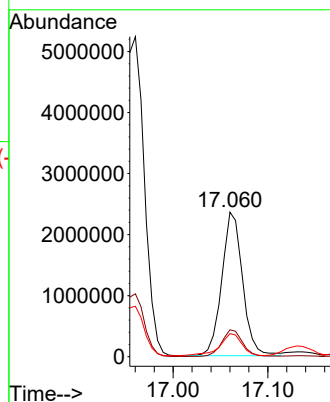
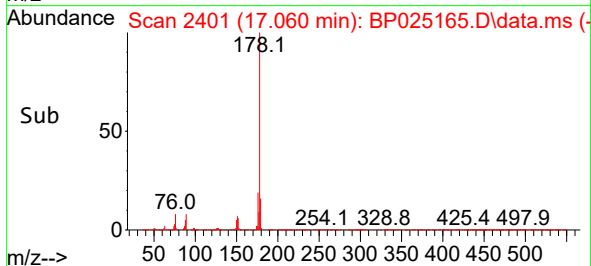
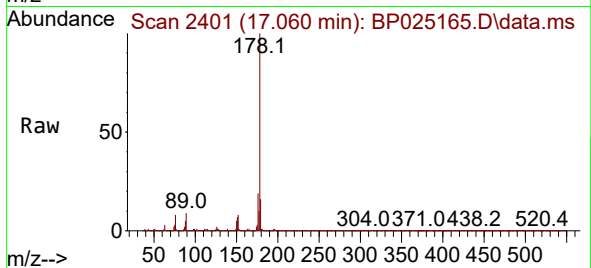
179 16.0 12.5 18.7

Manual Integrations

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Reviewed By :Rahul Chavli 07/17/2025

Supervised By :Jagrut Upadhyay 07/17/2025



#73

Carbazole

Concen: 2.584 ng

RT: 17.337 min Scan# 2448

Delta R.T. 0.012 min

Lab File: BP025165.D

Acq: 16 Jul 2025 19:40

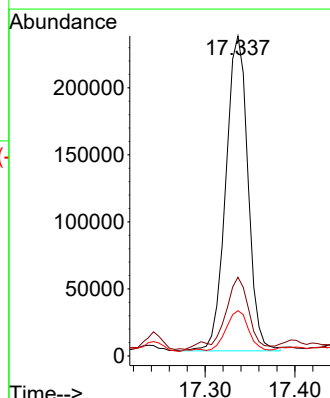
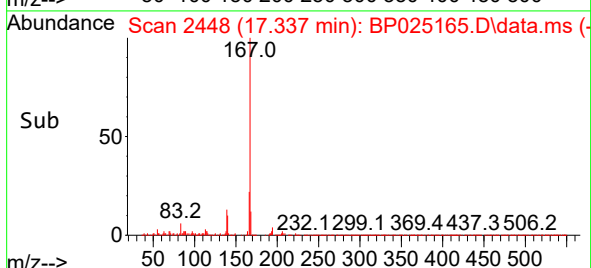
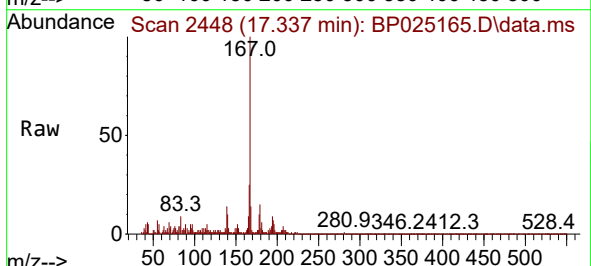
Tgt Ion:167 Resp: 402638

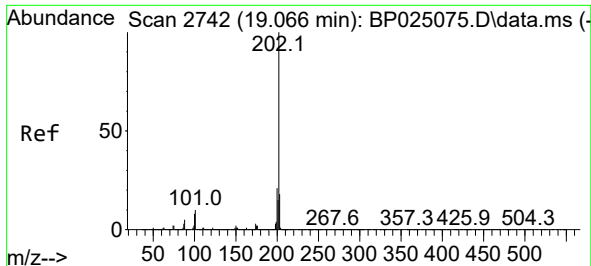
Ion Ratio Lower Upper

167 100

166 24.6 17.4 26.0

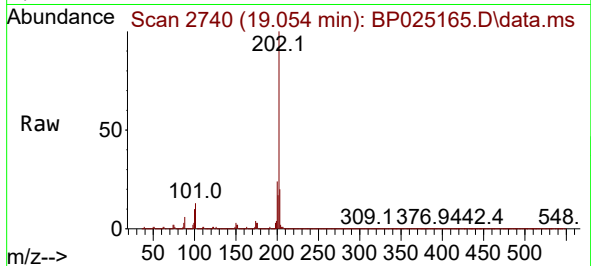
139 14.2 10.4 15.6





#75
Fluoranthene
Concen: 69.726 ng
RT: 19.054 min Scan# 21
Delta R.T. -0.012 min
Lab File: BP025165.D
Acq: 16 Jul 2025 19:40

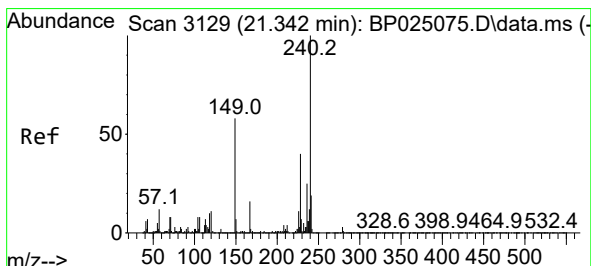
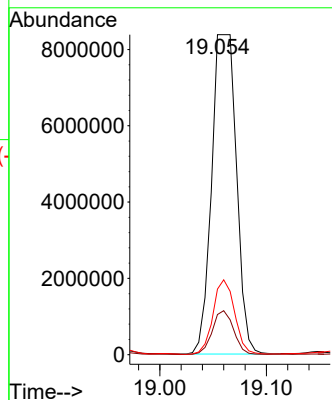
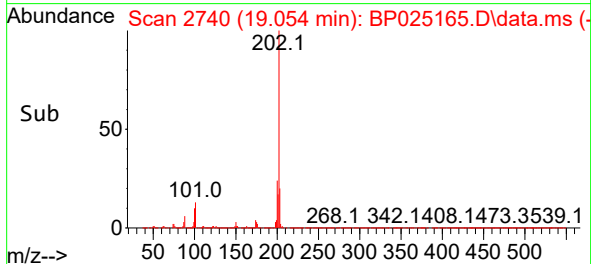
Instrument :
BNA_P
ClientSampleId :
OK-01-071425



Tgt Ion:202 Resp:1354115
Ion Ratio Lower Upper
202 100
101 12.6 0.0 30.4
203 20.5 0.0 37.6

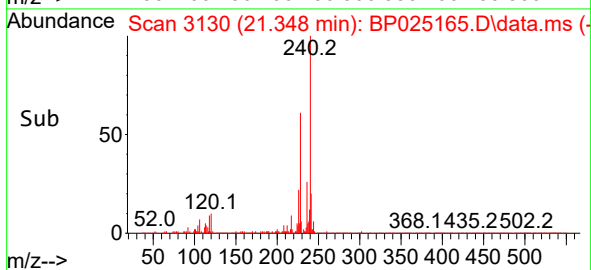
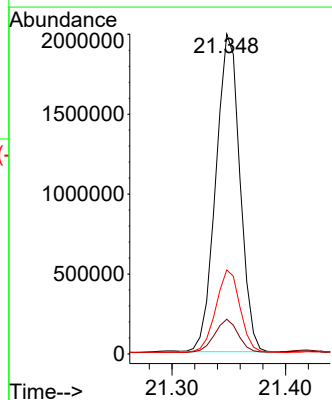
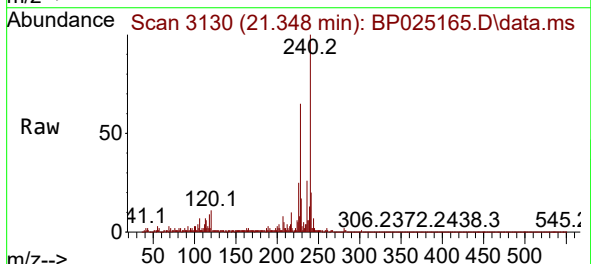
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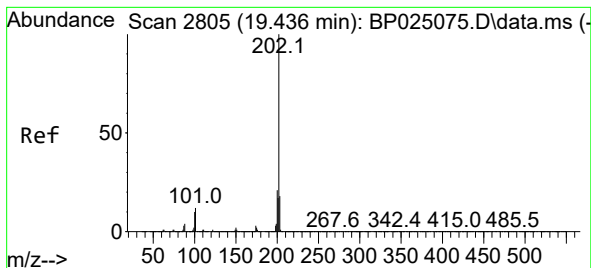
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.348 min Scan# 3130
Delta R.T. 0.006 min
Lab File: BP025165.D
Acq: 16 Jul 2025 19:40

Tgt Ion:240 Resp: 2922632
Ion Ratio Lower Upper
240 100
120 10.9 9.0 13.4
236 26.2 20.3 30.5





#78

Pyrene

Concen: 80.756 ng

RT: 19.436 min Scan# 2805

Delta R.T. 0.000 min

Lab File: BP025165.D

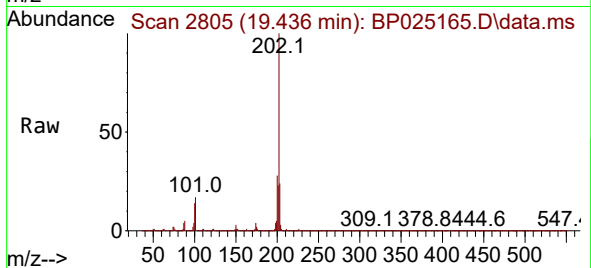
Acq: 16 Jul 2025 19:40

Instrument :

BNA_P

ClientSampleId :

OK-01-071425



Tgt Ion:202 Resp:1461866

Ion Ratio Lower Upper

202 100

200 27.7 17.1 25.7

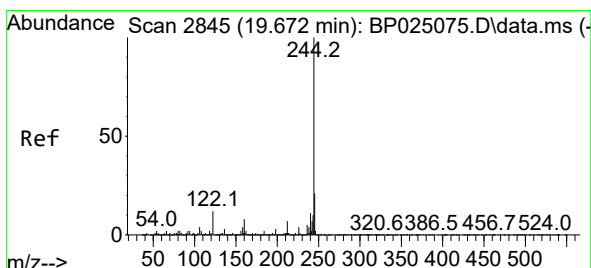
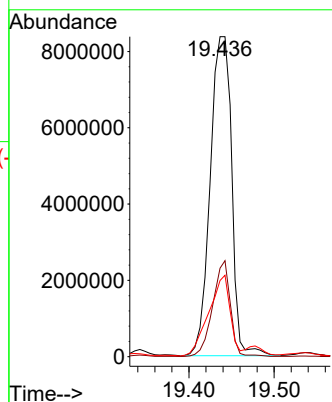
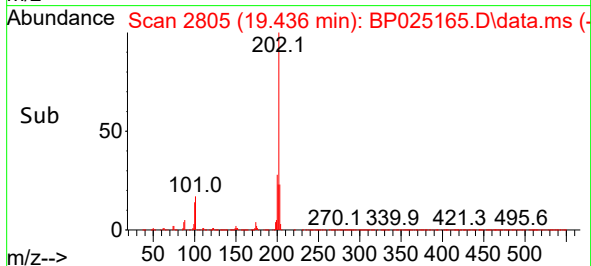
203 23.8 14.1 21.1

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Reviewed By :Rahul Chavli 07/17/2025

Supervised By :Jagrut Upadhyay 07/17/2025



#79

Terphenyl-d14

Concen: 31.989 ng

RT: 19.678 min Scan# 2846

Delta R.T. 0.006 min

Lab File: BP025165.D

Acq: 16 Jul 2025 19:40

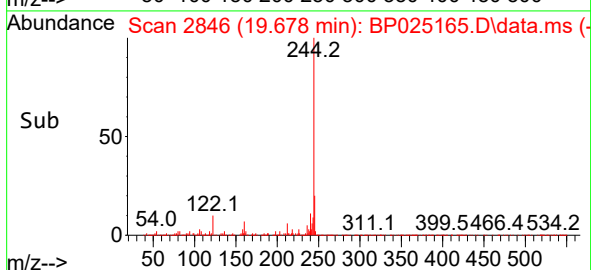
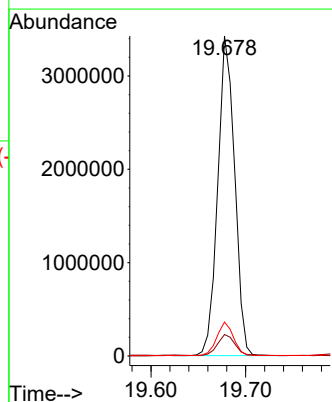
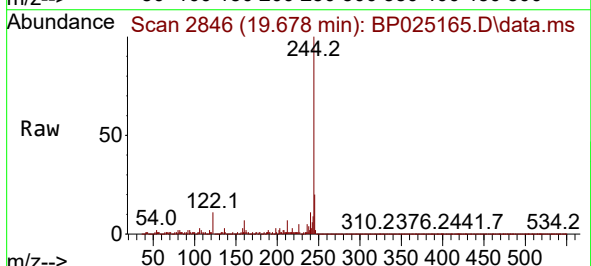
Tgt Ion:244 Resp: 4253906

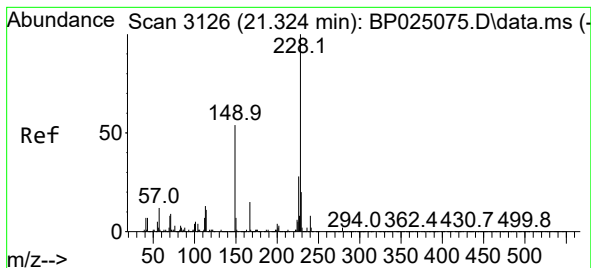
Ion Ratio Lower Upper

244 100

212 6.7 5.9 8.9

122 10.6 9.4 14.2





#81

Benzo(a)anthracene

Concen: 44.976 ng

RT: 21.330 min Scan# 3126

Delta R.T. 0.006 min

Lab File: BP025165.D

Acq: 16 Jul 2025 19:40

Instrument :

BNA_P

ClientSampleId :

OK-01-071425

Tgt Ion:228 Resp: 796606

Ion Ratio Lower Upper

228 100

226 30.8 22.1 33.1

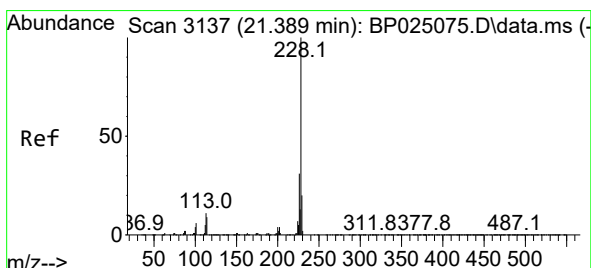
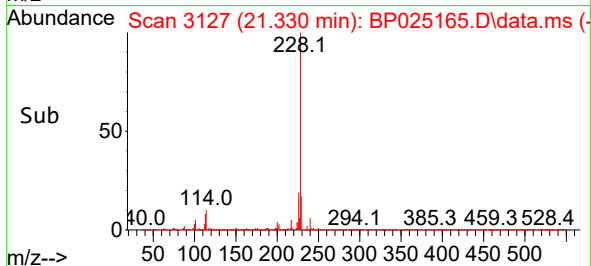
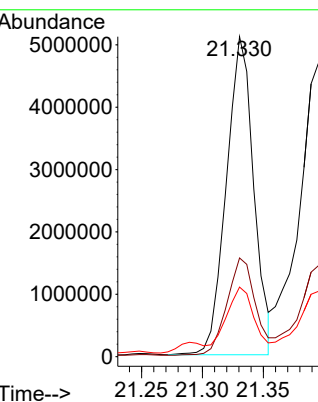
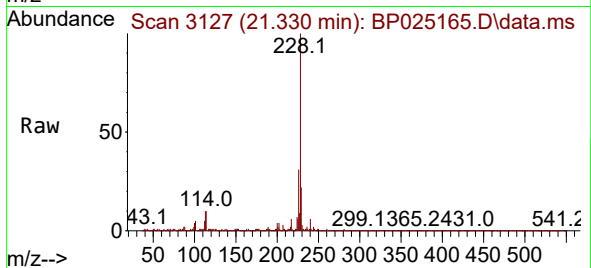
229 21.8 16.0 24.0

Manual Integrations

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Reviewed By :Rahul Chavli 07/17/2025

Supervised By :Jagrut Upadhyay 07/17/2025



#83

Chrysene

Concen: 44.997 ng m

RT: 21.395 min Scan# 3138

Delta R.T. 0.006 min

Lab File: BP025165.D

Acq: 16 Jul 2025 19:40

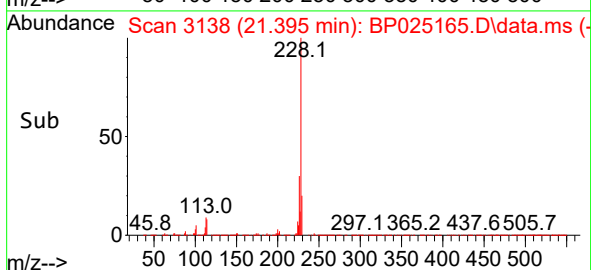
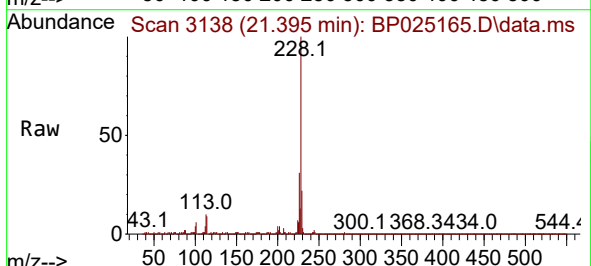
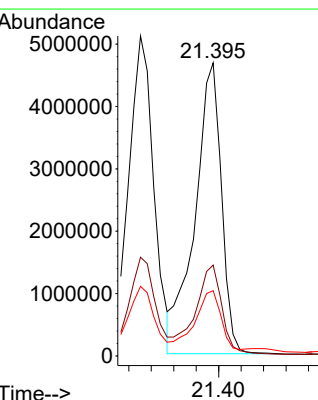
Tgt Ion:228 Resp: 7669478

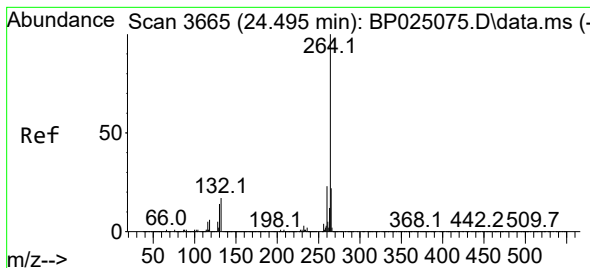
Ion Ratio Lower Upper

228 100

226 31.0 24.4 36.6

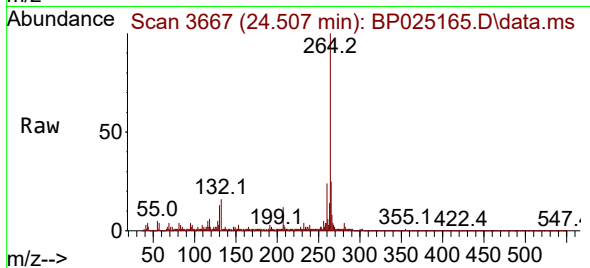
229 22.3 16.0 24.0





#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 24.507 min Scan# 3667
 Delta R.T. 0.012 min
 Lab File: BP025165.D
 Acq: 16 Jul 2025 19:40

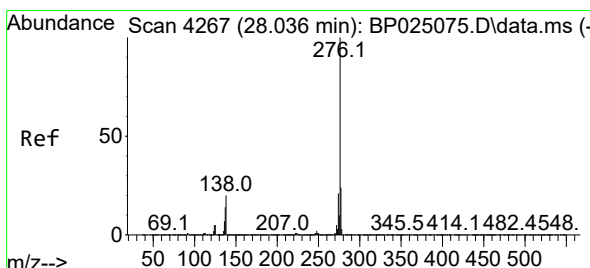
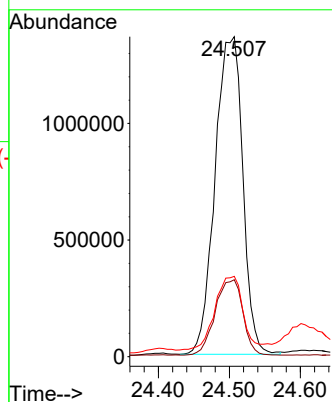
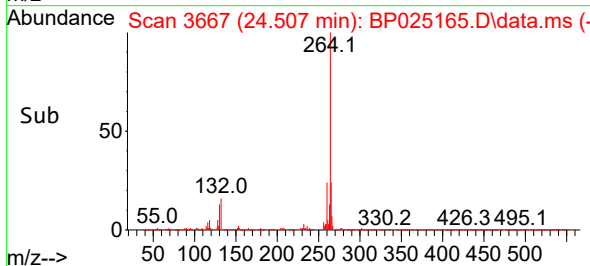
Instrument :
 BNA_P
 ClientSampleId :
 OK-01-071425



Tgt Ion:264 Resp: 368682
 Ion Ratio Lower Upper
 264 100
 260 24.0 18.6 28.0
 265 25.1 17.7 26.5

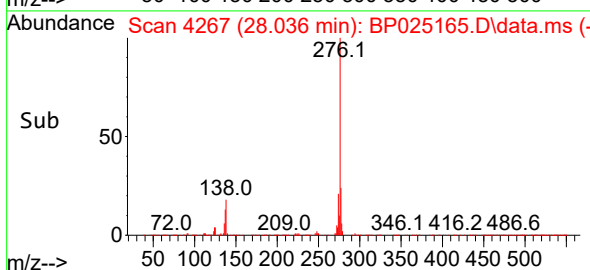
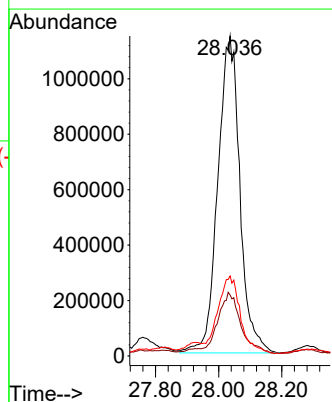
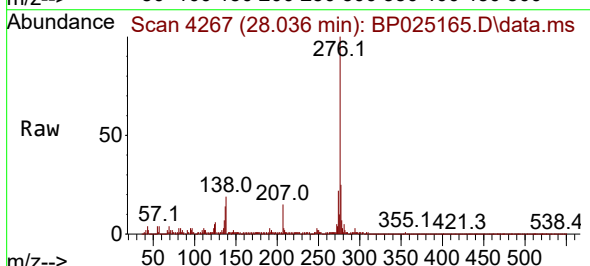
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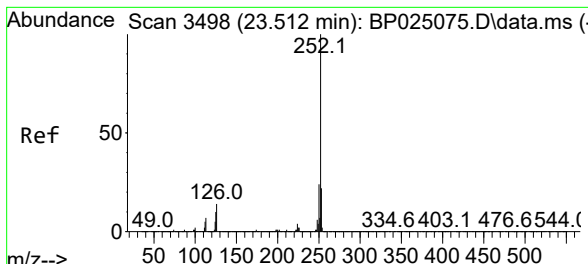
Reviewed By :Rahul Chavli 07/17/2025
 Supervised By :Jagrut Upadhyay 07/17/2025



#87
 Indeno(1,2,3-cd)pyrene
 Concen: 23.583 ng
 RT: 28.036 min Scan# 4267
 Delta R.T. 0.000 min
 Lab File: BP025165.D
 Acq: 16 Jul 2025 19:40

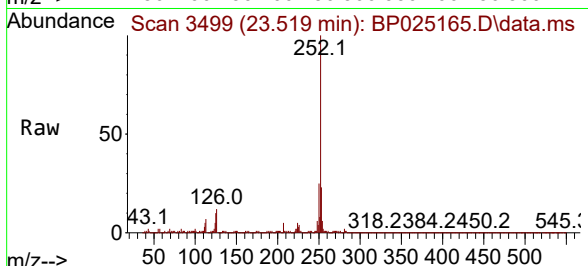
Tgt Ion:276 Resp: 5538967
 Ion Ratio Lower Upper
 276 100
 138 20.0 13.0 19.6#
 277 24.7 15.9 23.9#





#88
Benzo(b)fluoranthene
Concen: 44.348 ng
RT: 23.519 min Scan# 3498
Delta R.T. 0.006 min
Lab File: BP025165.D
Acq: 16 Jul 2025 19:40

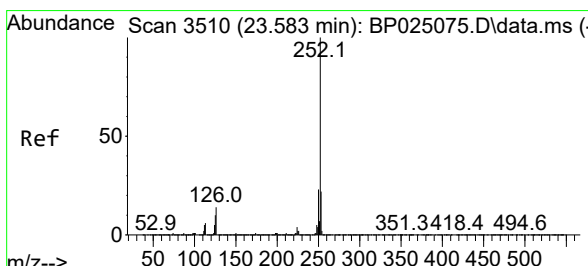
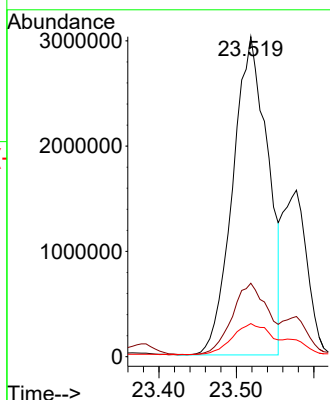
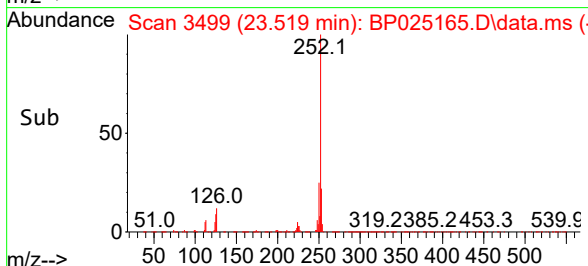
Instrument :
BNA_P
ClientSampleId :
OK-01-071425



Tgt Ion:252 Resp: 951677
Ion Ratio Lower Upper
252 100
253 23.0 17.7 26.5
125 10.3 8.1 12.1

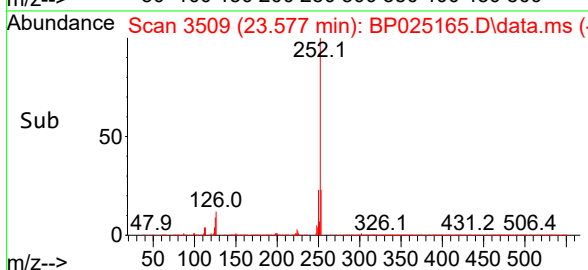
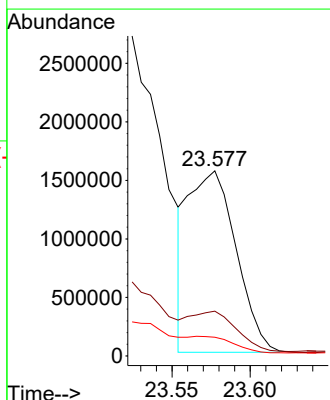
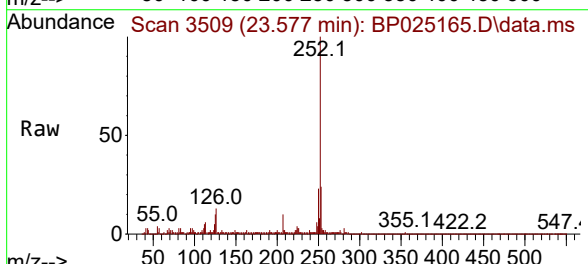
Manual Integrations
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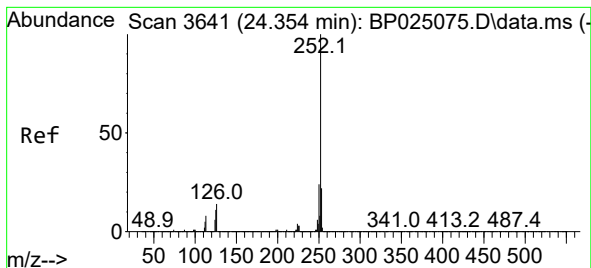
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025



#89
Benzo(k)fluoranthene
Concen: 15.417 ng m
RT: 23.577 min Scan# 3509
Delta R.T. -0.006 min
Lab File: BP025165.D
Acq: 16 Jul 2025 19:40

Tgt Ion:252 Resp: 3291821
Ion Ratio Lower Upper
252 100
253 24.2 17.7 26.5
125 10.1 8.2 12.2





#90

Benzo(a)pyrene

Concen: 44.620 ng

RT: 24.354 min Scan# 30

Delta R.T. 0.000 min

Lab File: BP025165.D

Acq: 16 Jul 2025 19:40

Instrument :

BNA_P

ClientSampleId :

OK-01-071425

Tgt Ion:252 Resp: 8149400

Ion Ratio Lower Upper

252 100

253 23.3 17.6 26.4

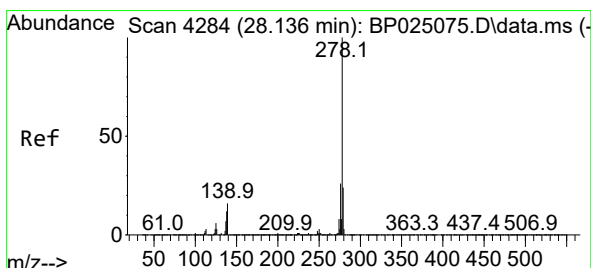
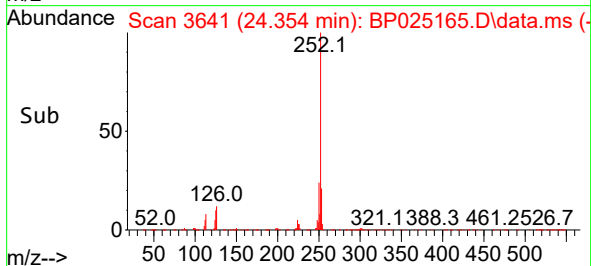
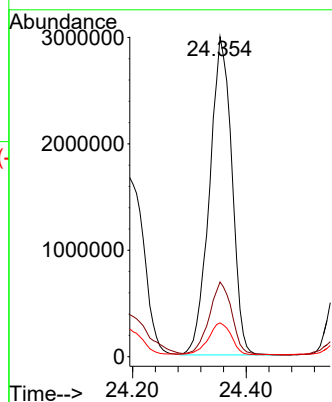
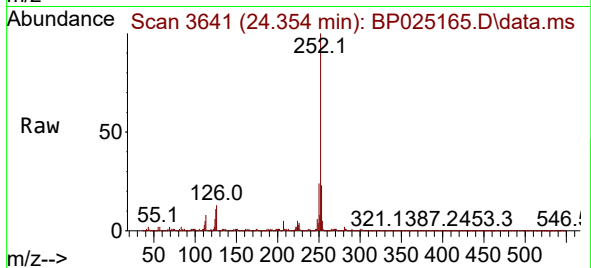
125 10.6 9.0 13.4

Manual Integrations

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Reviewed By :Rahul Chavli 07/17/2025

Supervised By :Jagrut Upadhyay 07/17/2025



#91

Dibenzo(a,h)anthracene

Concen: 7.487 ng

RT: 28.107 min Scan# 4279

Delta R.T. -0.029 min

Lab File: BP025165.D

Acq: 16 Jul 2025 19:40

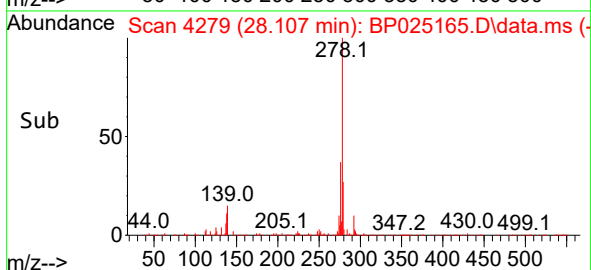
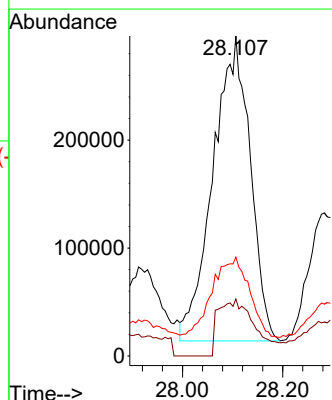
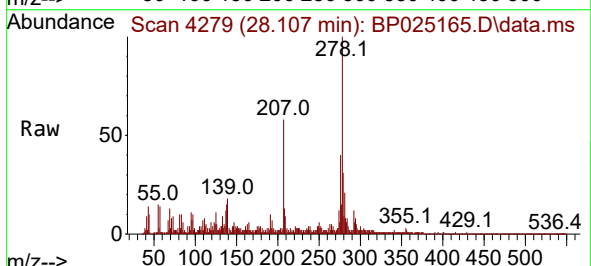
Tgt Ion:278 Resp: 1453481

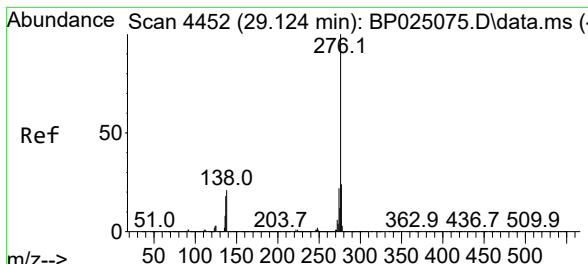
Ion Ratio Lower Upper

278 100

139 17.8 13.1 19.7

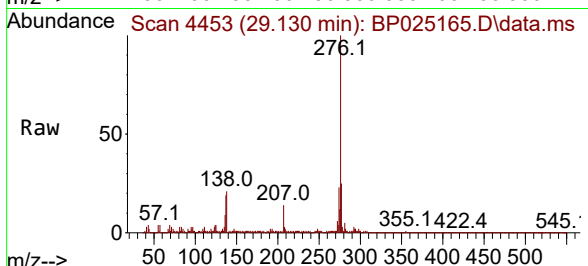
279 30.9 18.9 28.3#





#92
 Benzo(g,h,i)perylene
 Concen: 27.759 ng
 RT: 29.130 min Scan# 44
 Delta R.T. 0.006 min
 Lab File: BP025165.D
 Acq: 16 Jul 2025 19:40

Instrument :
 BNA_P
 ClientSampleId :
 OK-01-071425



Tgt Ion:276 Resp: 556725
 Ion Ratio Lower Upper
 276 100
 277 24.7 19.3 28.9
 138 21.5 16.9 25.3

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 07/17/2025
 Supervised By :Jagrut Upadhyay 07/17/2025

