

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP080825\
 Data File : BP025340.D
 Acq On : 08 Aug 2025 20:06
 Operator : CG/JU
 Sample : Q2779-05 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 TP-5

Quant Time: Aug 11 01:50:50 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP080525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 06 06:41:44 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Rahul
 Chavli

08/11/2025
 Supervised By :Jagrut
 Upadhyay

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.802	152	324273	20.000	ng	0.00
21) Naphthalene-d8	10.572	136	1220171	20.000	ng	0.00
39) Acenaphthene-d10	14.419	164	650571	20.000	ng	0.00
64) Phenanthrene-d10	17.219	188	1125106	20.000	ng	0.00
76) Chrysene-d12	21.671	240	1158785	20.000	ng	0.01
86) Perylene-d12	25.071	264	1399059	20.000	ng	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.408	112	328682	16.302	ng	0.00
7) Phenol-d6	6.966	99	383636	14.458	ng	0.00
23) Nitrobenzene-d5	8.937	82	246733	11.203	ng	0.00
42) 2,4,6-Tribromophenol	15.931	330	105766	16.296	ng	0.00
45) 2-Fluorobiphenyl	13.031	172	520222	11.045	ng	0.00
79) Terphenyl-d14	19.942	244	595060	9.699	ng	0.00
Target Compounds						
						Qvalue
52) Acenaphthene	14.484	154	138966	3.734	ng	98
55) Dibenzofuran	14.819	168	127650	2.295	ng	97
58) Fluorene	15.484	166	208665	4.777	ng	99
71) Phenanthrene	17.260	178	2261274	36.695	ng	100
72) Anthracene	17.354	178	687849	11.070	ng	99
73) Carbazole	17.625	167	160481	2.691	ng	99
75) Fluoranthene	19.348	202	2989103	41.901	ng	99
78) Pyrene	19.719	202	2843404	36.900	ng	99
81) Benzo(a)anthracene	21.654	228	1656744	21.515	ng	98
83) Chrysene	21.724	228	1415983	19.826	ng	99
87) Indeno(1,2,3-cd)pyrene	28.918	276	860711	8.583	ng	# 89
88) Benzo(b)fluoranthene	23.977	252	1759903	21.014	ng	97
89) Benzo(k)fluoranthene	24.048	252	607353m	7.315	ng	
90) Benzo(a)pyrene	24.901	252	1433699	17.776	ng	98
91) Dibenzo(a,h)anthracene	28.977	278	237789	2.895	ng	# 91
92) Benzo(g,h,i)perylene	30.112	276	800929	9.937	ng	99

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

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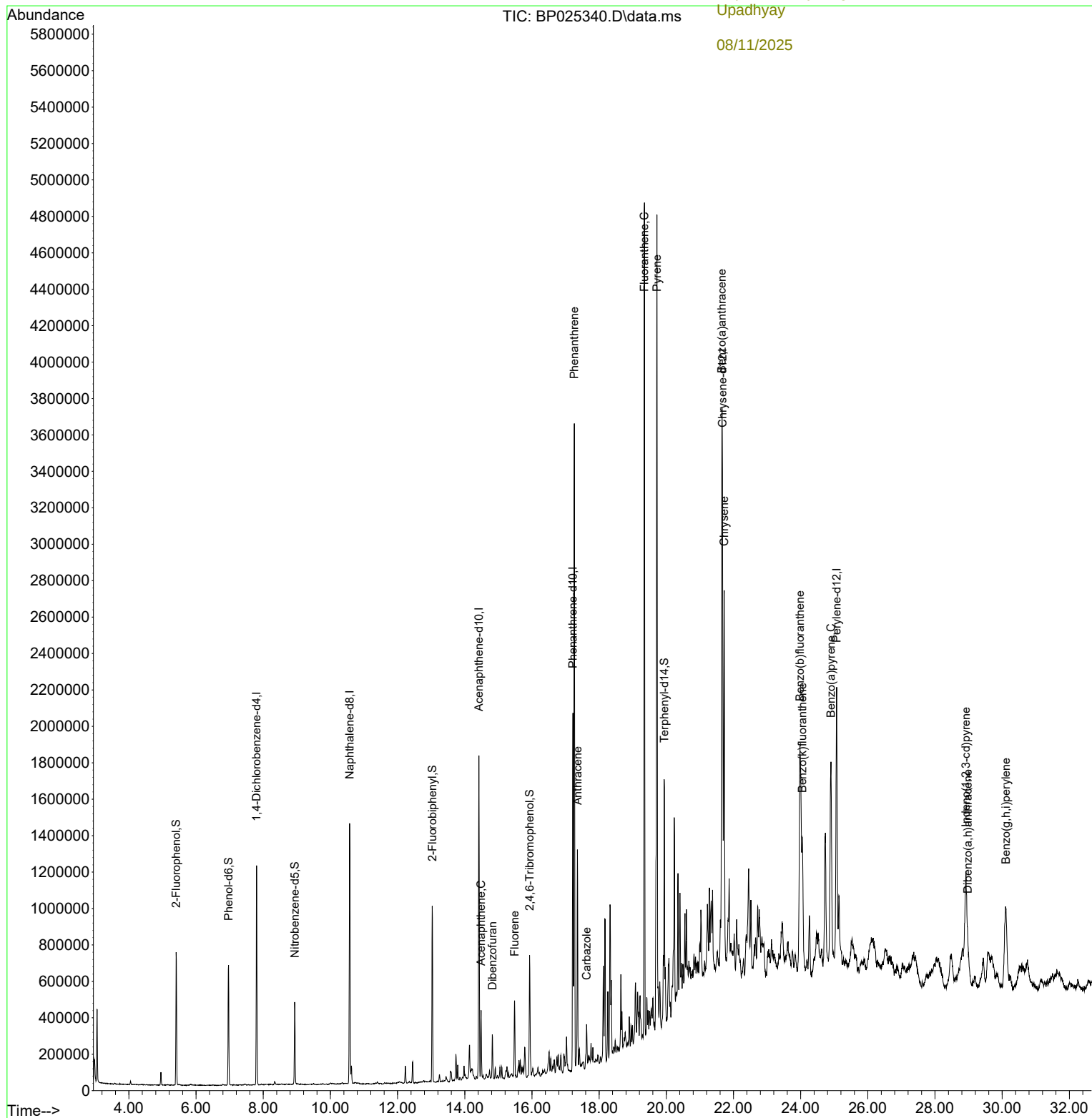
Quant Time: Aug 11 01:50:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP080525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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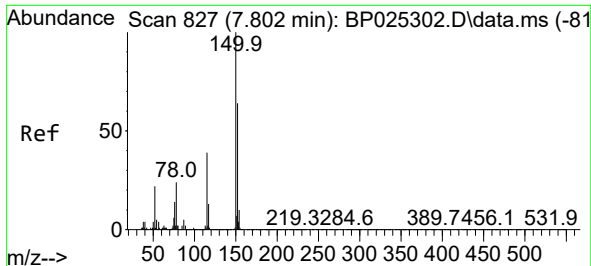
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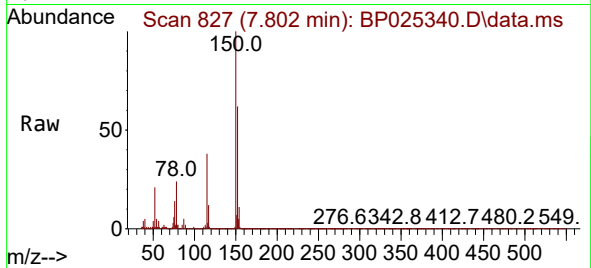
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#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.802 min Scan# 81
Delta R.T. -0.000 min
Lab File: BP025340.D
Acq: 08 Aug 2025 20:06

Instrument :
BNA_P
ClientSampleId :
TP-5



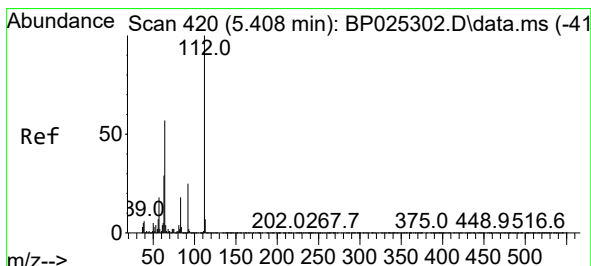
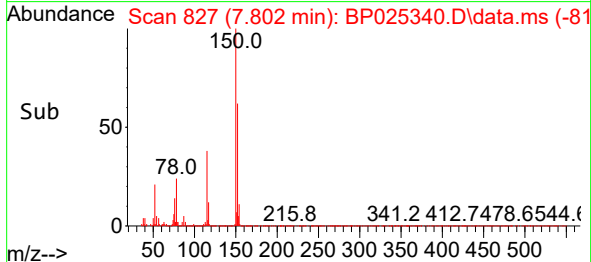
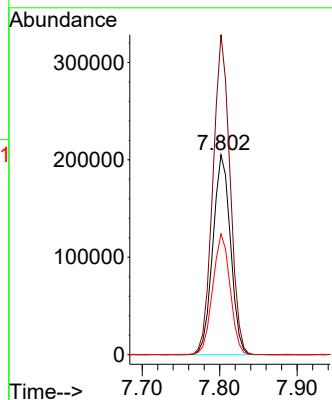
Tgt Ion:152 Resp: 32427
Ion Ratio Lower Upper
152 100
150 160.1 125.1 187.7
115 60.4 48.4 72.6

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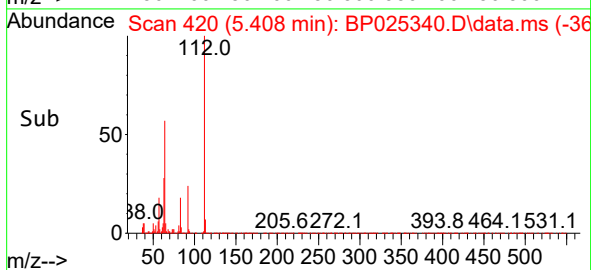
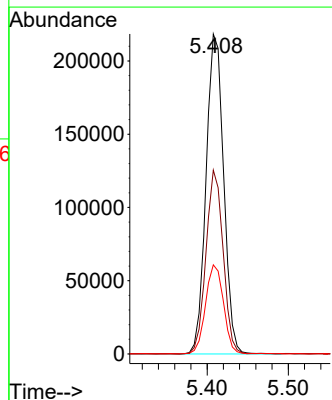
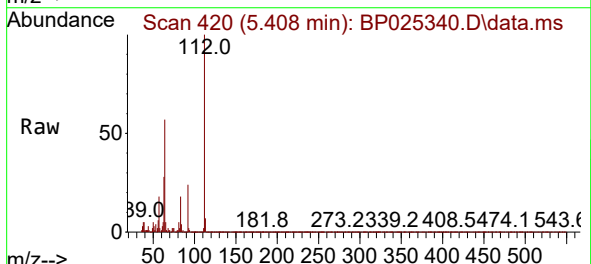
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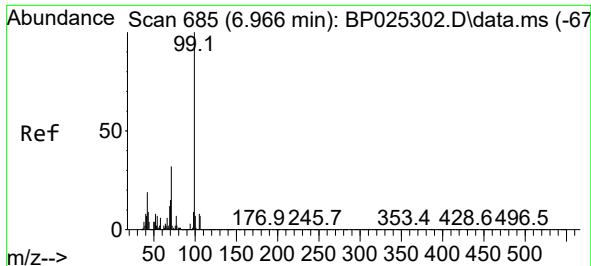
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#5
2-Fluorophenol
Concen: 16.302 ng
RT: 5.408 min Scan# 420
Delta R.T. -0.000 min
Lab File: BP025340.D
Acq: 08 Aug 2025 20:06

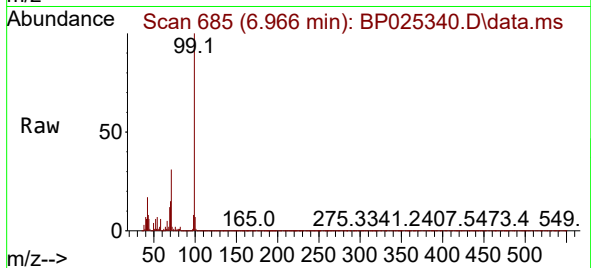
Tgt Ion:112 Resp: 328682
Ion Ratio Lower Upper
112 100
64 57.5 45.3 67.9
63 27.8 23.0 34.6





#7
Phenol-d6
Concen: 14.458 ng
RT: 6.966 min Scan# 685
Delta R.T. 0.000 min
Lab File: BP025340.D
Acq: 08 Aug 2025 20:06

Instrument :
BNA_P
ClientSampleId :
TP-5



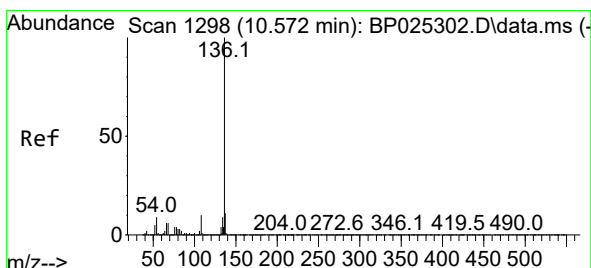
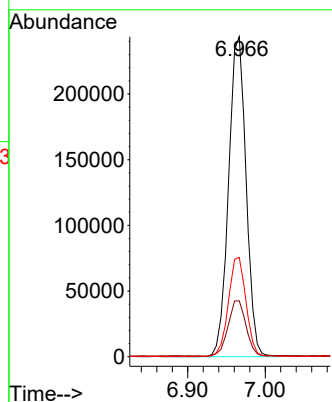
Tgt Ion: 99 Resp: 383630
Ion Ratio Lower Upper
99 100
42 17.4 15.0 22.6
71 31.0 25.5 38.3

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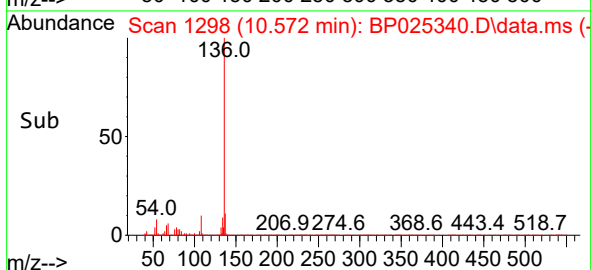
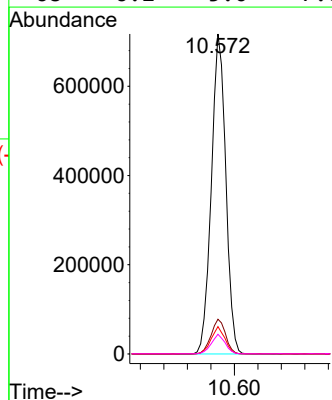
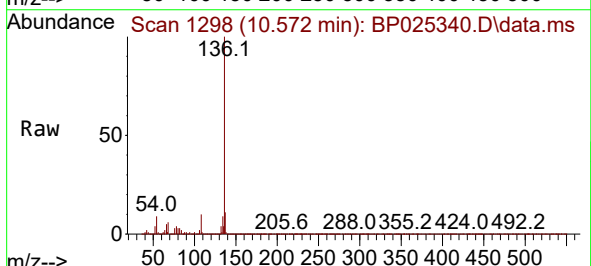
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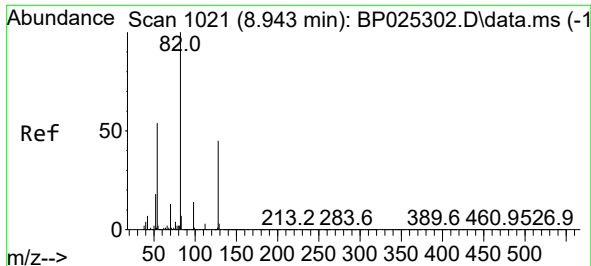
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#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.572 min Scan# 1298
Delta R.T. 0.000 min
Lab File: BP025340.D
Acq: 08 Aug 2025 20:06

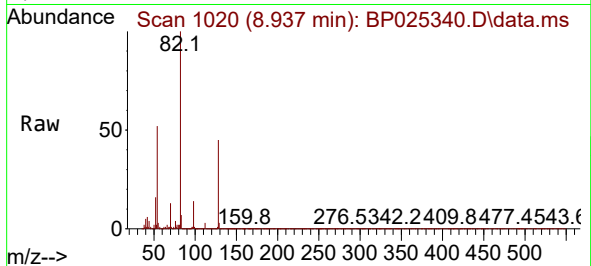
Tgt Ion:136 Resp: 1220171
Ion Ratio Lower Upper
136 100
137 10.8 8.9 13.3
54 8.5 7.0 10.6
68 6.2 5.0 7.6





#23
Nitrobenzene-d5
Concen: 11.203 ng
RT: 8.937 min Scan# 1020
Delta R.T. -0.006 min
Lab File: BP025340.D
Acq: 08 Aug 2025 20:06

Instrument :
BNA_P
ClientSampleId :
TP-5



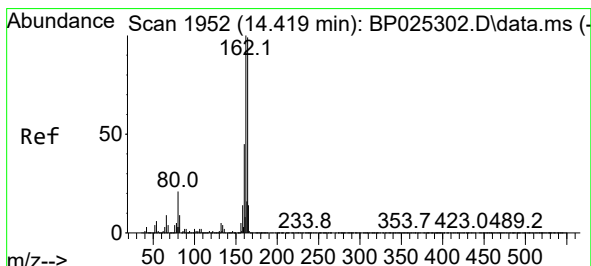
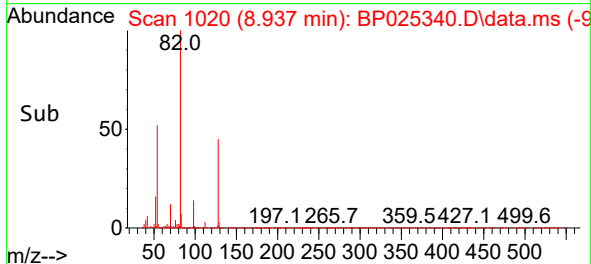
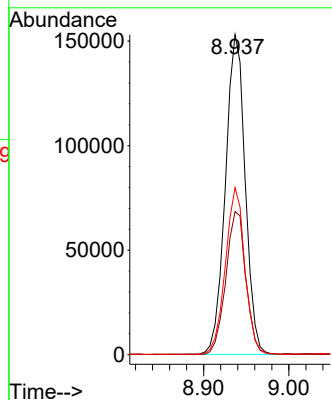
Tgt Ion: 82 Resp: 24673
Ion Ratio Lower Upper
82 100
128 44.7 35.4 53.2
54 52.2 42.9 64.3

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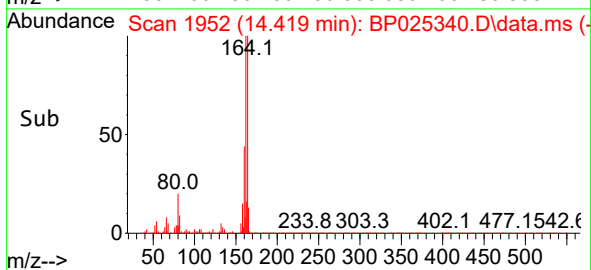
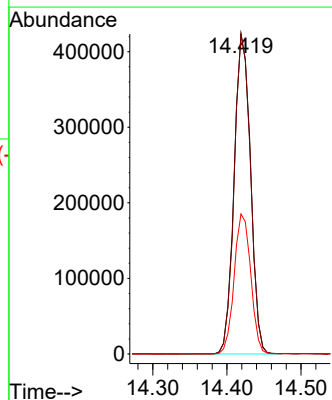
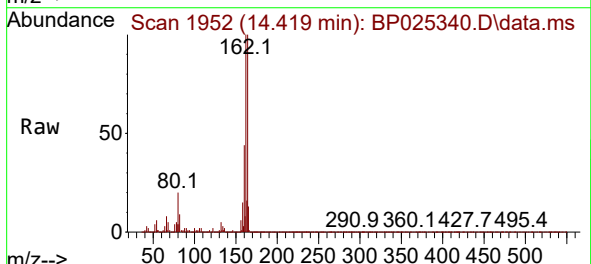
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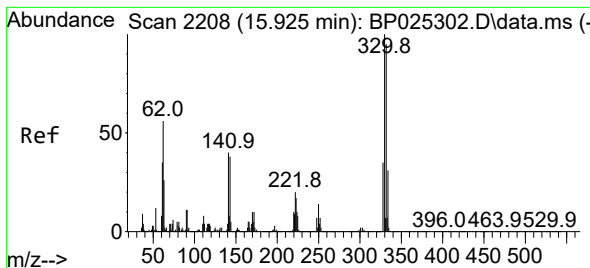
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.419 min Scan# 1952
Delta R.T. -0.000 min
Lab File: BP025340.D
Acq: 08 Aug 2025 20:06

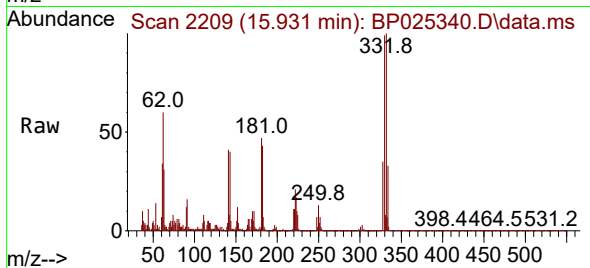
Tgt Ion:164 Resp: 650571
Ion Ratio Lower Upper
164 100
162 100.0 80.6 120.8
160 43.8 35.9 53.9





#42
2,4,6-Tribromophenol
Concen: 16.296 ng
RT: 15.931 min Scan# 2208
Delta R.T. 0.006 min
Lab File: BP025340.D
Acq: 08 Aug 2025 20:06

Instrument :
BNA_P
ClientSampleId :
TP-5



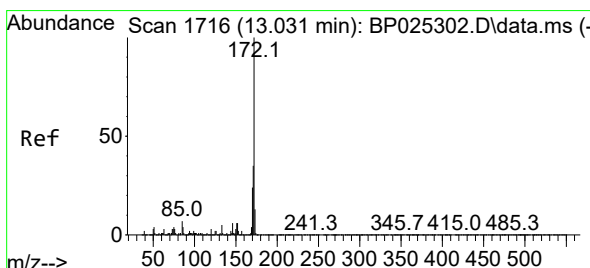
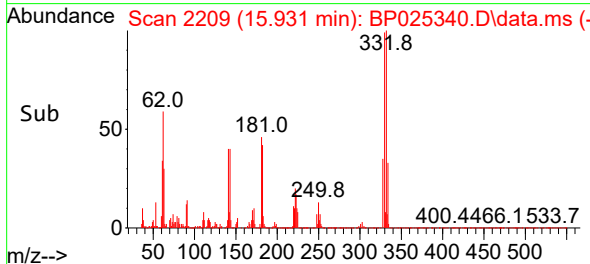
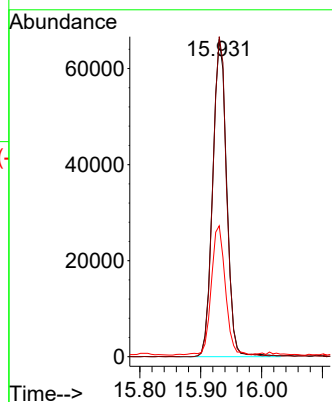
Tgt Ion:330 Resp: 105760
Ion Ratio Lower Upper
330 100
332 98.9 77.4 116.0
141 41.0 31.7 47.5

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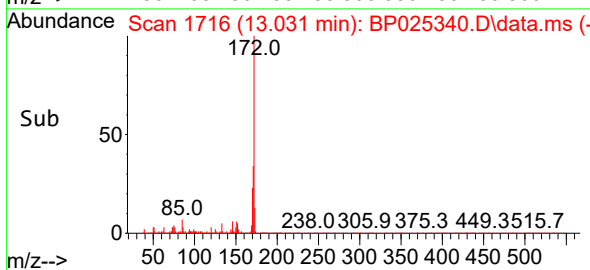
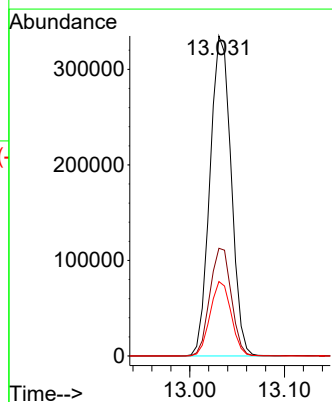
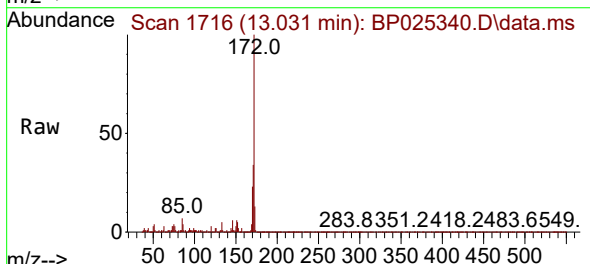
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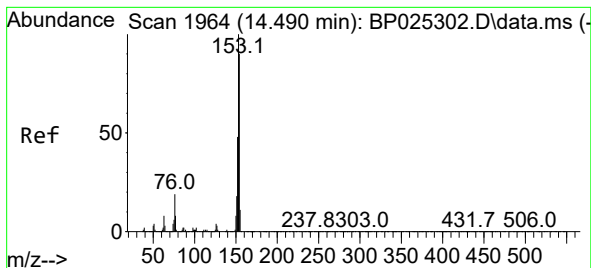
08/11/2025



#45
2-Fluorobiphenyl
Concen: 11.045 ng
RT: 13.031 min Scan# 1716
Delta R.T. -0.000 min
Lab File: BP025340.D
Acq: 08 Aug 2025 20:06

Tgt Ion:172 Resp: 520222
Ion Ratio Lower Upper
172 100
171 33.7 27.9 41.9
170 23.2 18.9 28.3





#52

Acenaphthene

Concen: 3.734 ng

RT: 14.484 min Scan# 1964

Delta R.T. -0.006 min

Lab File: BP025340.D

Acq: 08 Aug 2025 20:06

Instrument :

BNA_P

ClientSampleId :

TP-5

Tgt Ion:154 Resp: 138960
 Ion Ratio Lower Upper
 154 100
 153 110.8 89.4 134.0
 152 50.9 43.0 64.6

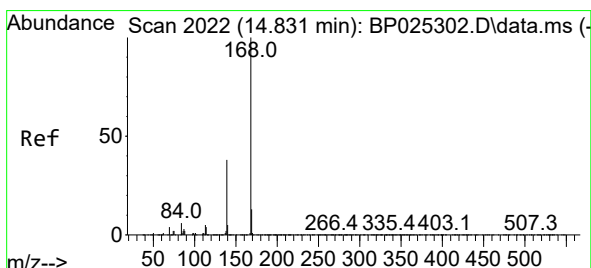
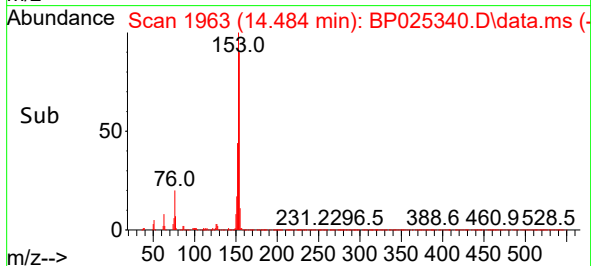
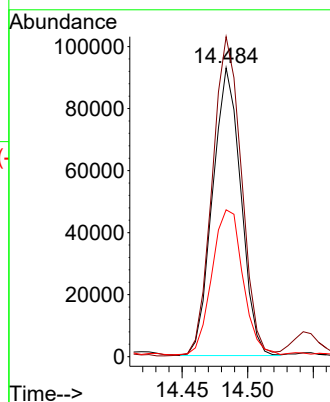
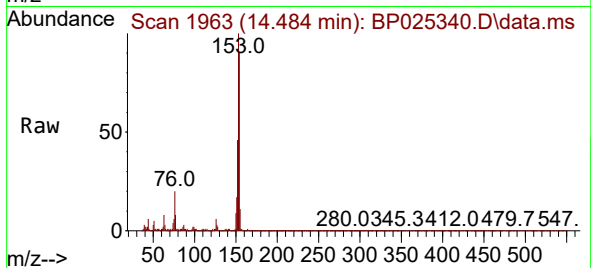
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#55

Dibenzofuran

Concen: 2.295 ng

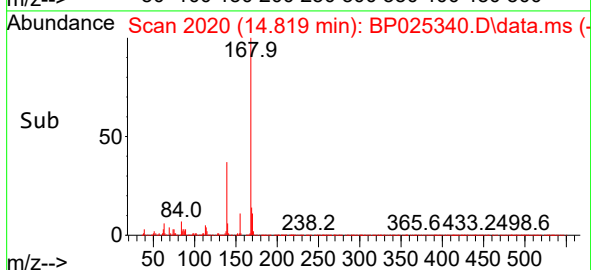
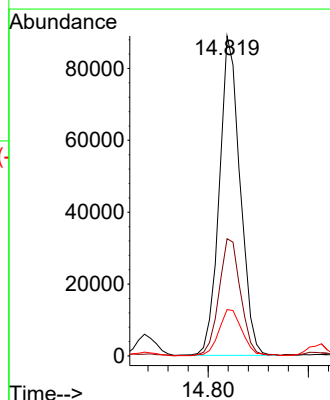
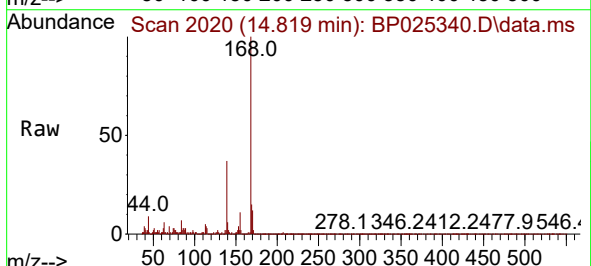
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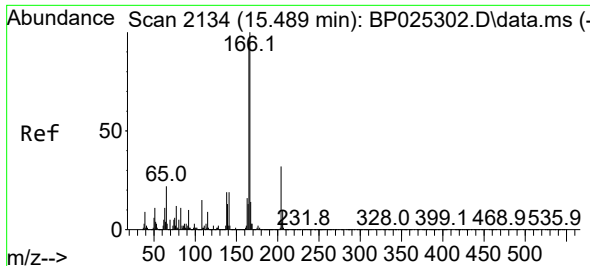
Delta R.T. -0.012 min

Lab File: BP025340.D

Acq: 08 Aug 2025 20:06

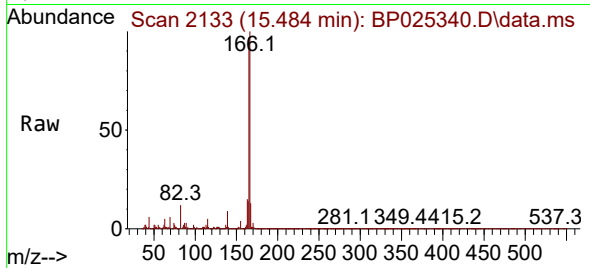
Tgt Ion:168 Resp: 127650
 Ion Ratio Lower Upper
 168 100
 139 36.7 30.5 45.7
 169 14.5 10.6 15.8





#58
Fluorene
Concen: 4.777 ng
RT: 15.484 min Scan# 2134
Delta R.T. -0.005 min
Lab File: BP025340.D
Acq: 08 Aug 2025 20:06

Instrument :
BNA_P
ClientSampleId :
TP-5



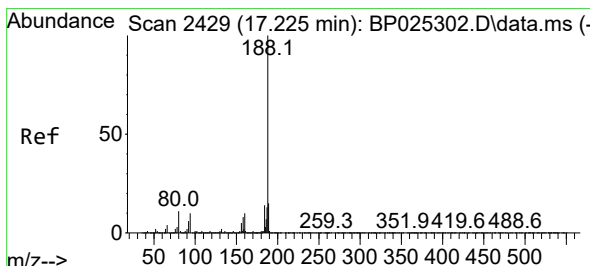
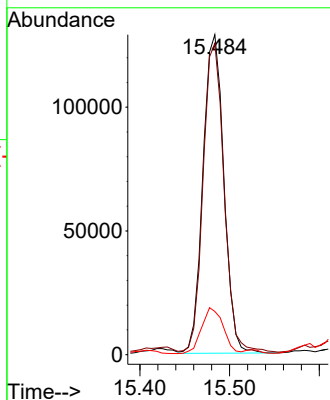
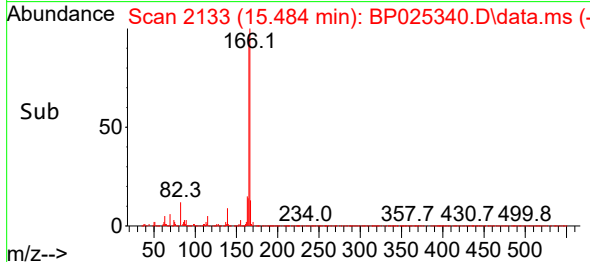
Tgt Ion:166 Resp: 20866
Ion Ratio Lower Upper
166 100
165 97.3 76.7 115.1
167 13.5 10.9 16.3

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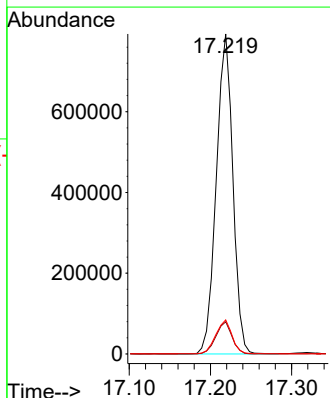
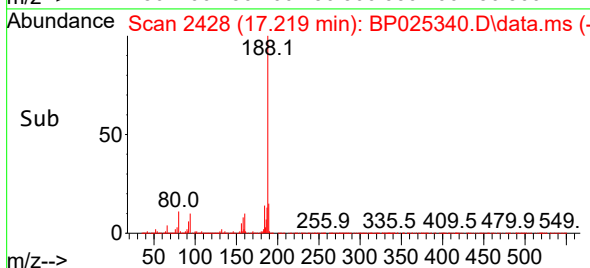
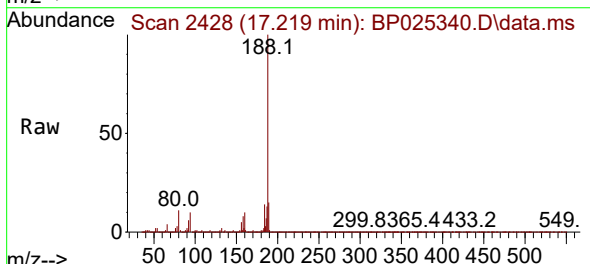
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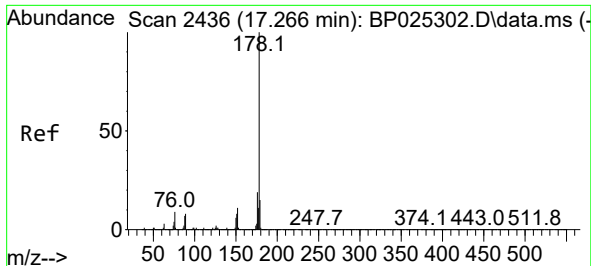
08/11/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.219 min Scan# 2428
Delta R.T. -0.006 min
Lab File: BP025340.D
Acq: 08 Aug 2025 20:06

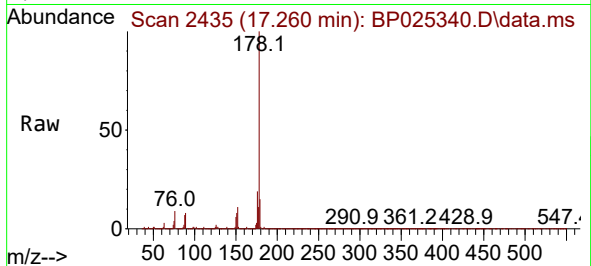
Tgt Ion:188 Resp: 1125106
Ion Ratio Lower Upper
188 100
94 10.0 8.0 12.0
80 10.7 8.5 12.7





#71
Phenanthrene
Concen: 36.695 ng
RT: 17.260 min Scan# 2436
Delta R.T. -0.006 min
Lab File: BP025340.D
Acq: 08 Aug 2025 20:06

Instrument :
BNA_P
ClientSampleId :
TP-5



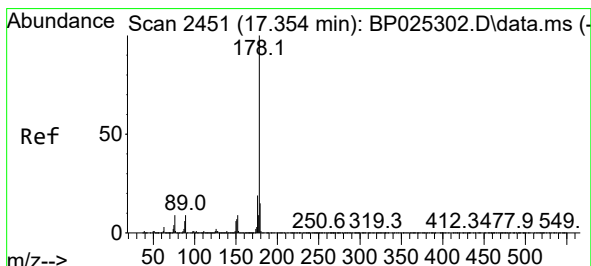
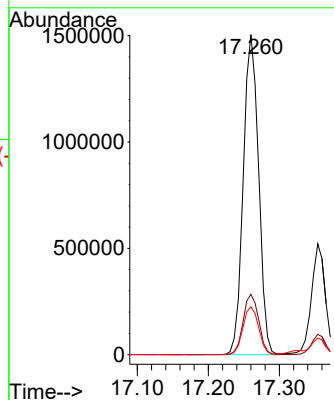
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Ion Ratio Lower Upper
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176 18.8 15.3 22.9
179 14.9 12.1 18.1

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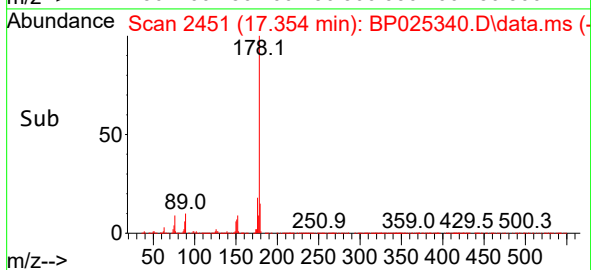
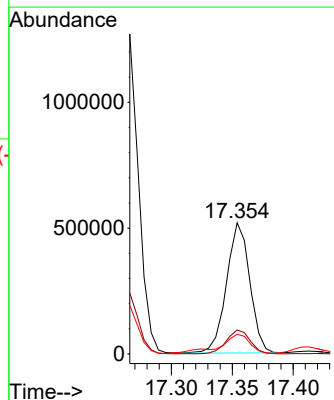
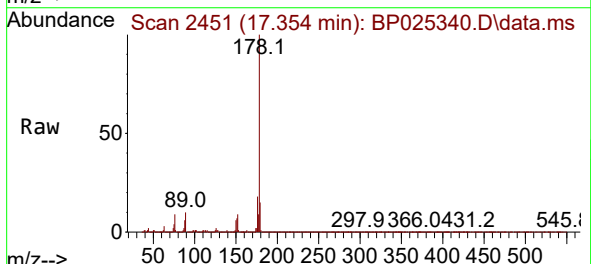
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Supervised By :Jagrut
Upadhyay

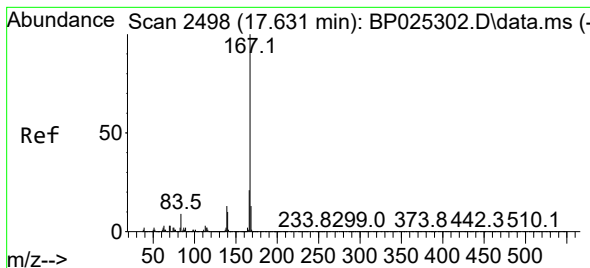
08/11/2025



#72
Anthracene
Concen: 11.070 ng
RT: 17.354 min Scan# 2451
Delta R.T. 0.000 min
Lab File: BP025340.D
Acq: 08 Aug 2025 20:06

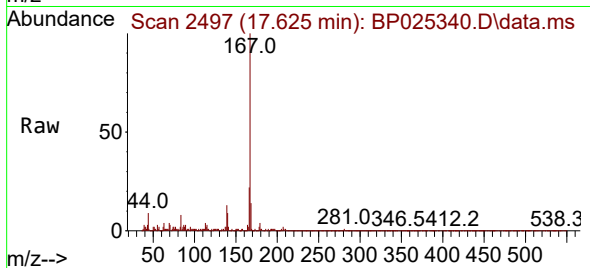
Tgt Ion:178 Resp: 687849
Ion Ratio Lower Upper
178 100
176 18.3 14.8 22.2
179 15.1 12.3 18.5





#73
 Carbazole
 Concen: 2.691 ng
 RT: 17.625 min Scan# 2498
 Delta R.T. -0.006 min
 Lab File: BP025340.D
 Acq: 08 Aug 2025 20:06

Instrument :
 BNA_P
 ClientSampleId :
 TP-5



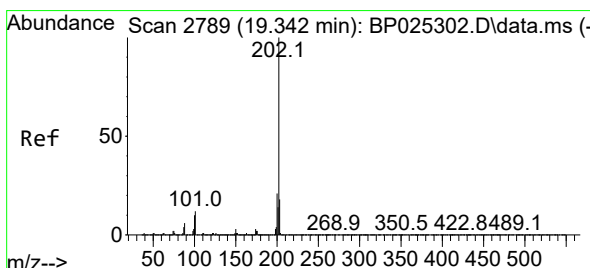
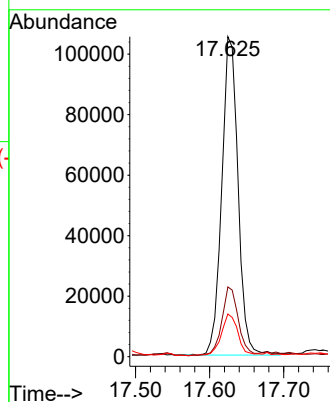
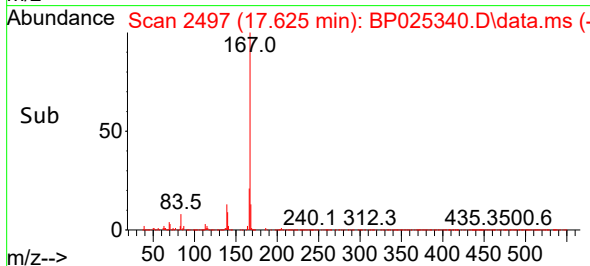
Tgt Ion:167 Resp: 16048
 Ion Ratio Lower Upper
 167 100
 166 21.8 17.0 25.6
 139 13.4 10.6 16.0

Manual Integrations
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Reviewed By :Rahul
 Chavli

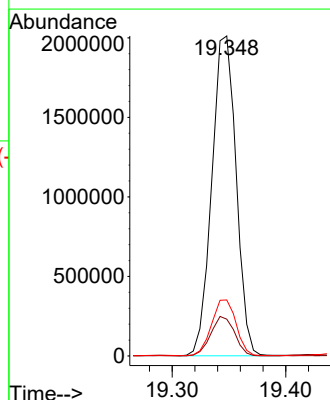
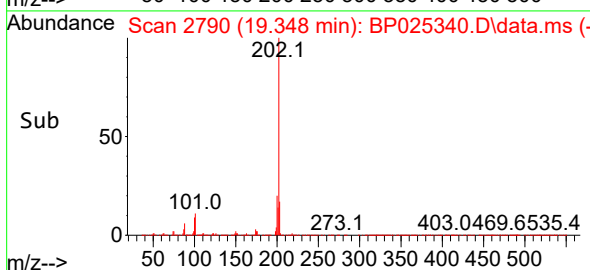
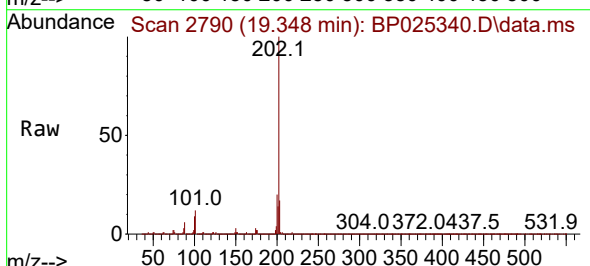
08/11/2025
 Supervised By :Jagrut
 Upadhyay

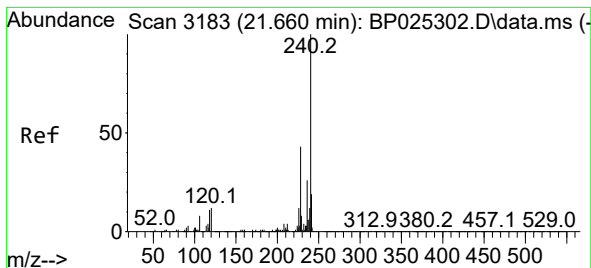
08/11/2025



#75
 Fluoranthene
 Concen: 41.901 ng
 RT: 19.348 min Scan# 2790
 Delta R.T. 0.006 min
 Lab File: BP025340.D
 Acq: 08 Aug 2025 20:06

Tgt Ion:202 Resp: 2989103
 Ion Ratio Lower Upper
 202 100
 101 11.5 0.0 32.5
 203 17.5 0.0 37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.671 min Scan# 3183

Delta R.T. 0.011 min

Lab File: BP025340.D

Acq: 08 Aug 2025 20:06

Instrument :

BNA_P

ClientSampleId :

TP-5

Tgt Ion:240 Resp: 115878

Ion Ratio Lower Upper

240 100

120 12.9 9.6 14.4

236 25.5 20.4 30.6

Manual Integrations

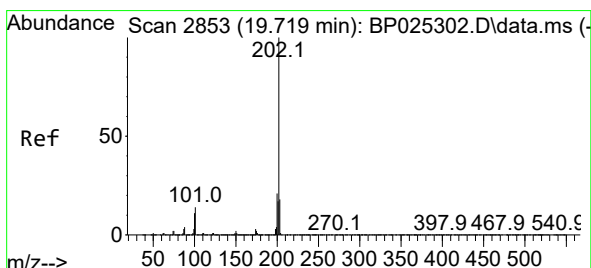
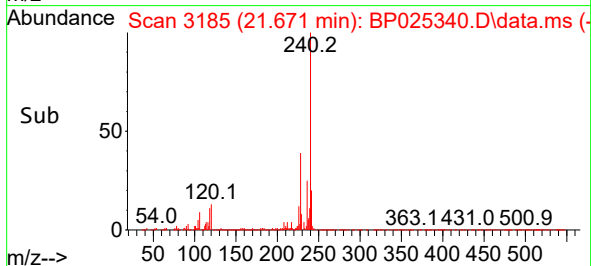
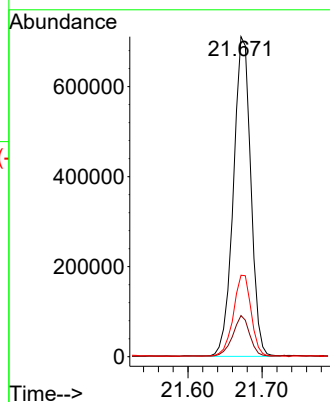
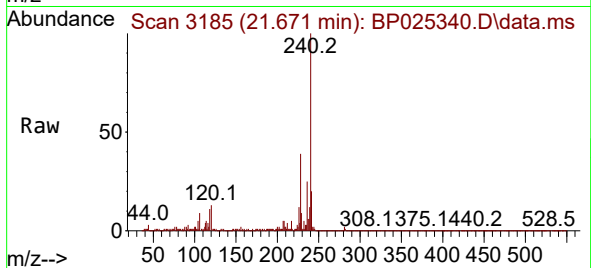
APPROVED

Reviewed By :Rahul
Chavli

08/11/2025

Supervised By :Jagrut
Upadhyay

08/11/2025



#78

Pyrene

Concen: 36.900 ng

RT: 19.719 min Scan# 2853

Delta R.T. -0.000 min

Lab File: BP025340.D

Acq: 08 Aug 2025 20:06

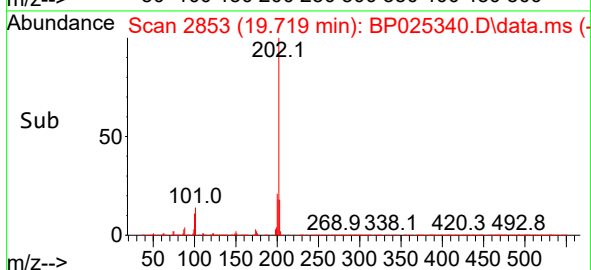
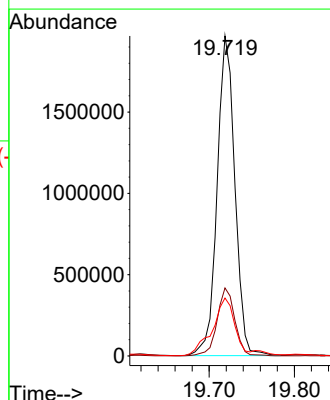
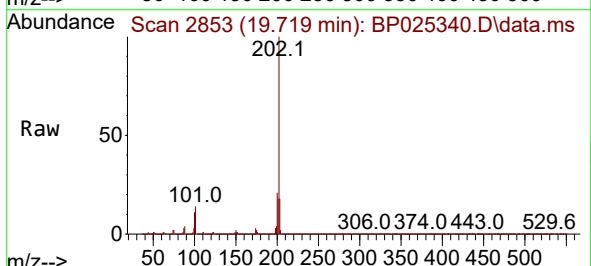
Tgt Ion:202 Resp: 2843404

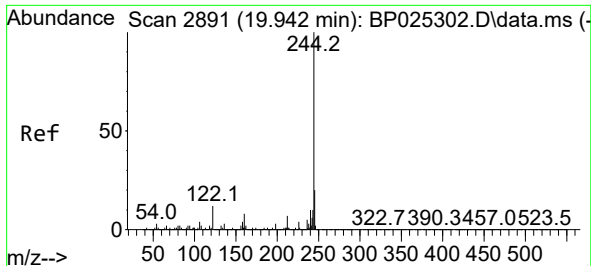
Ion Ratio Lower Upper

202 100

200 21.3 16.7 25.1

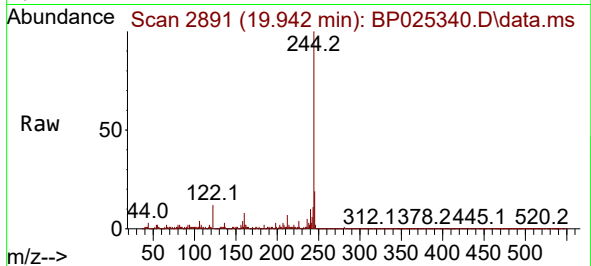
203 18.1 14.1 21.1





#79
 Terphenyl-d14
 Concen: 9.699 ng
 RT: 19.942 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BP025340.D
 Acq: 08 Aug 2025 20:06

Instrument :
 BNA_P
 ClientSampleId :
 TP-5



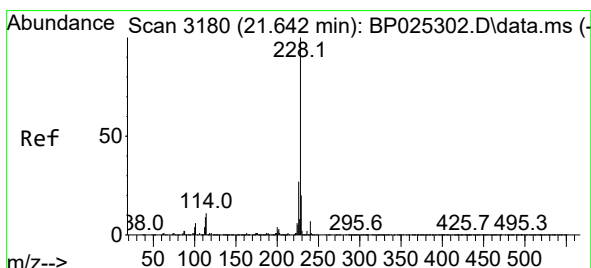
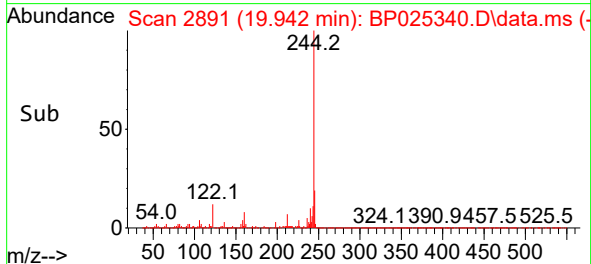
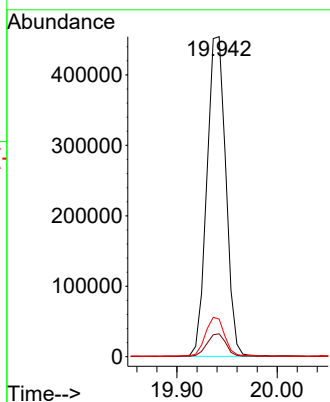
Tgt Ion:244 Resp: 595060
 Ion Ratio Lower Upper
 244 100
 212 7.2 5.9 8.9
 122 11.7 9.5 14.3

Manual Integrations
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Reviewed By :Rahul
 Chavli

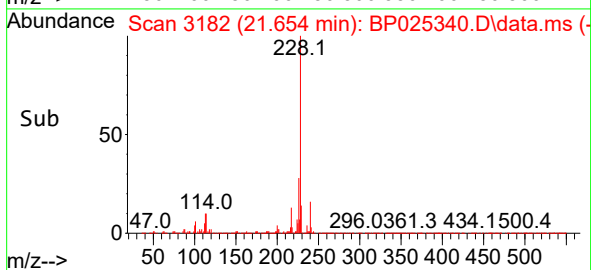
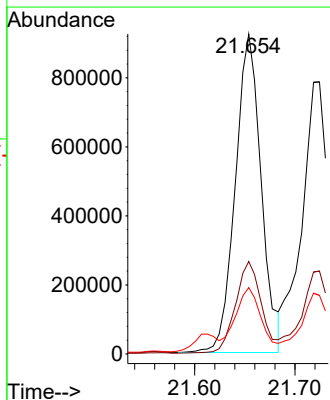
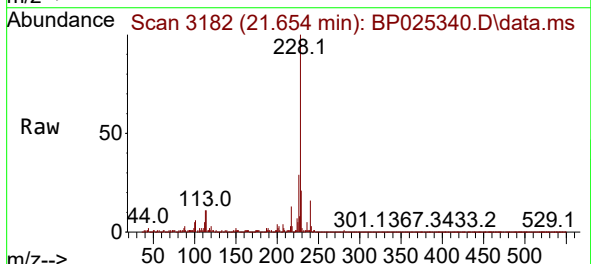
08/11/2025
 Supervised By :Jagrut
 Upadhyay

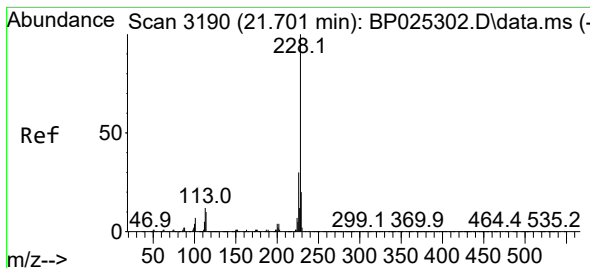
08/11/2025



#81
 Benzo(a)anthracene
 Concen: 21.515 ng
 RT: 21.654 min Scan# 3182
 Delta R.T. 0.012 min
 Lab File: BP025340.D
 Acq: 08 Aug 2025 20:06

Tgt Ion:228 Resp: 1656744
 Ion Ratio Lower Upper
 228 100
 226 28.9 21.8 32.8
 229 20.8 16.0 24.0





#83

Chrysene

Concen: 19.826 ng

RT: 21.724 min Scan# 31

Delta R.T. 0.023 min

Lab File: BP025340.D

Acq: 08 Aug 2025 20:06

Instrument :

BNA_P

ClientSampleId :

TP-5

Tgt Ion:228 Resp: 141598

Ion Ratio Lower Upper

228 100

226 30.4 24.3 36.5

229 21.6 15.9 23.9

Manual Integrations

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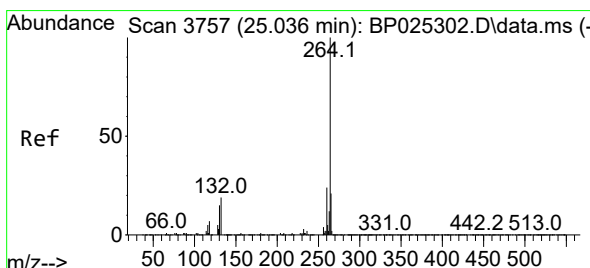
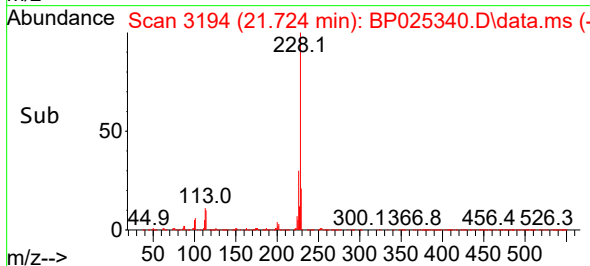
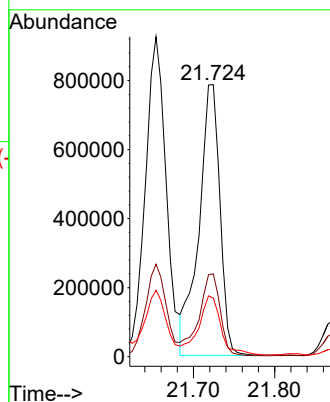
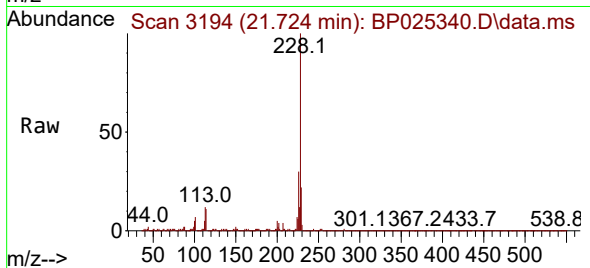
Reviewed By :Rahul

Chavli

08/11/2025

Supervised By :Jagrut
Upadhyay

08/11/2025



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.071 min Scan# 3763

Delta R.T. 0.035 min

Lab File: BP025340.D

Acq: 08 Aug 2025 20:06

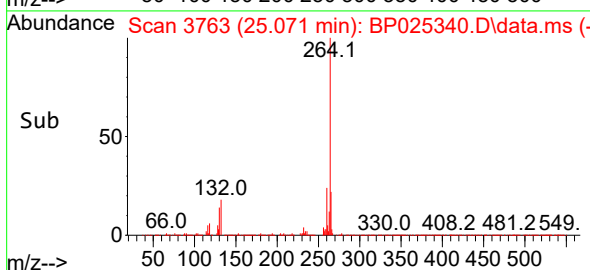
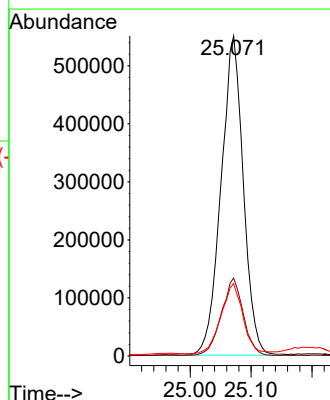
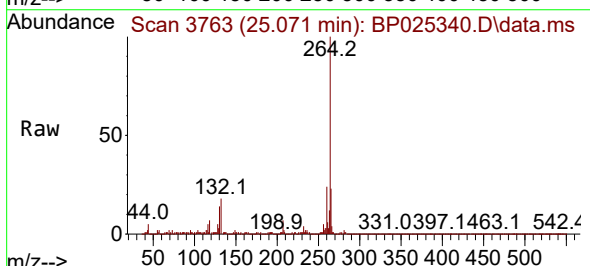
Tgt Ion:264 Resp: 1399059

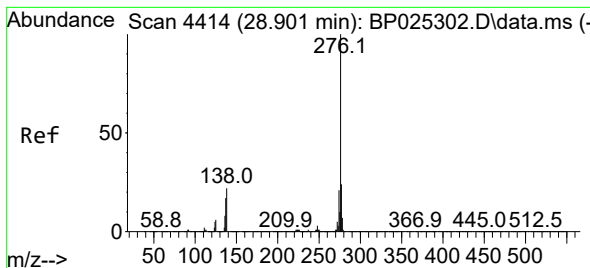
Ion Ratio Lower Upper

264 100

260 24.4 19.2 28.8

265 22.6 17.1 25.7





#87

Indeno(1,2,3-cd)pyrene

Concen: 8.583 ng

RT: 28.918 min Scan# 4414

Delta R.T. 0.017 min

Lab File: BP025340.D

Acq: 08 Aug 2025 20:06

Instrument :

BNA_P

ClientSampleId :

TP-5

Tgt Ion:276 Resp: 860711

Ion	Ratio	Lower	Upper
276	100		
138	24.4	14.6	22.0
277	24.6	16.8	25.2

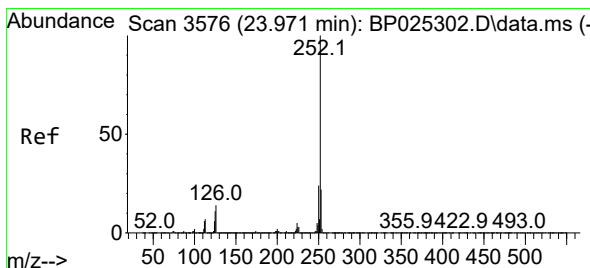
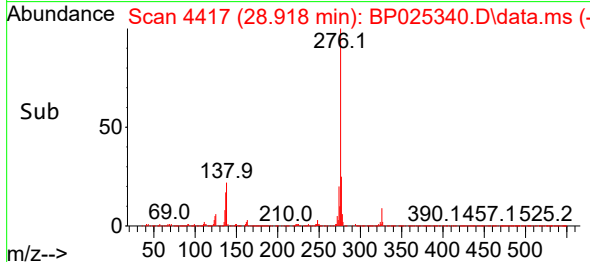
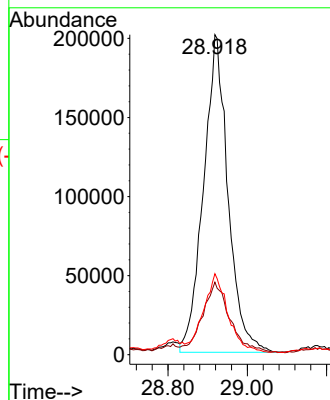
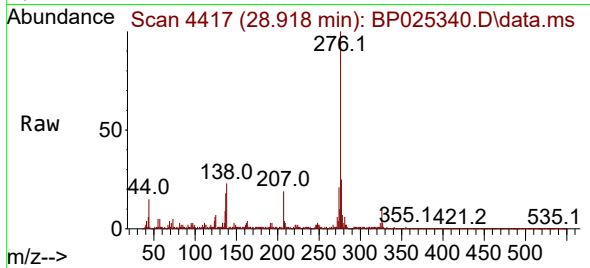
Manual Integrations
APPROVED

Reviewed By :Rahul
Chavli

08/11/2025

Supervised By :Jagrut
Upadhyay

08/11/2025



#88

Benzo(b)fluoranthene

Concen: 21.014 ng

RT: 23.977 min Scan# 3577

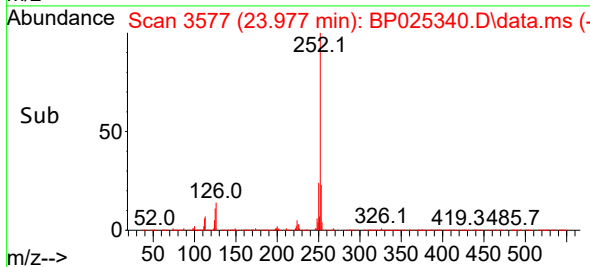
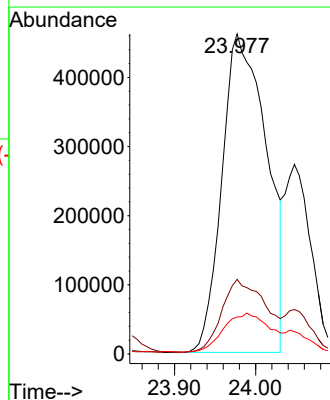
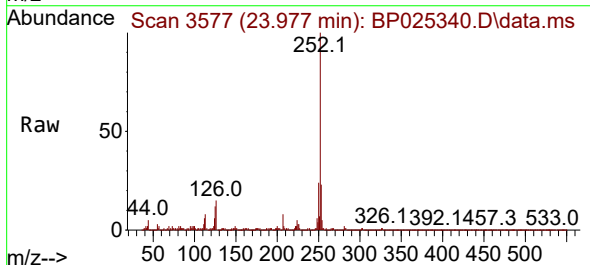
Delta R.T. 0.006 min

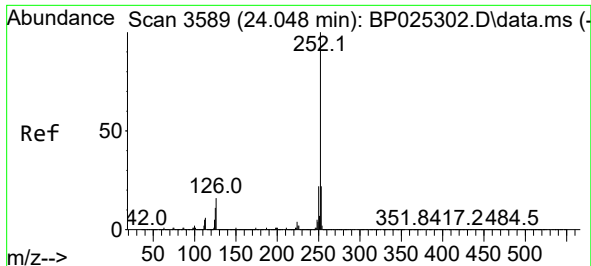
Lab File: BP025340.D

Acq: 08 Aug 2025 20:06

Tgt Ion:252 Resp: 1759903

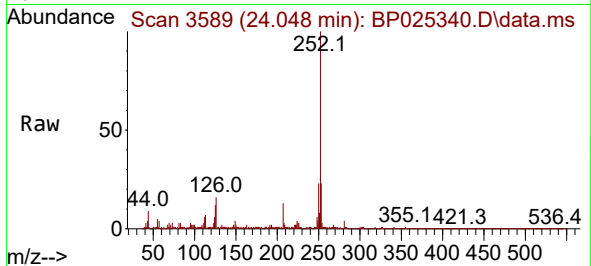
Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.5	26.3
125	11.6	8.5	12.7





#89
Benzo(k)fluoranthene
Concen: 7.315 ng m
RT: 24.048 min Scan# 3589
Delta R.T. -0.000 min
Lab File: BP025340.D
Acq: 08 Aug 2025 20:06

Instrument :
BNA_P
ClientSampleId :
TP-5



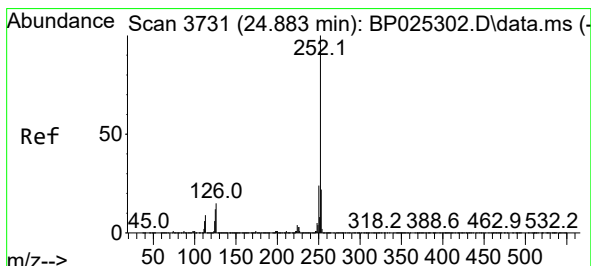
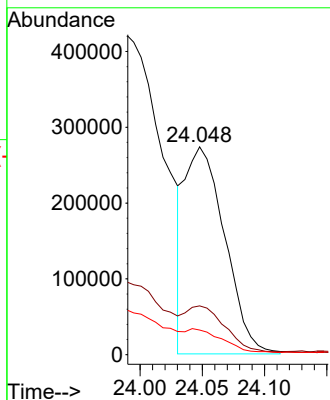
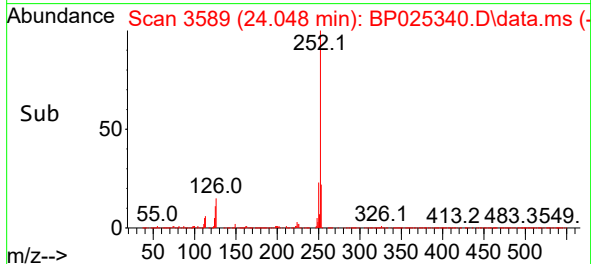
Tgt Ion:252 Resp: 60735
Ion Ratio Lower Upper
252 100
253 23.4 17.6 26.4
125 11.8 8.5 12.7

Manual Integrations
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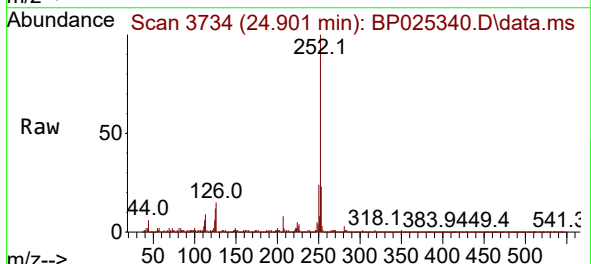
Reviewed By :Rahul
Chavli

08/11/2025
Supervised By :Jagrut
Upadhyay

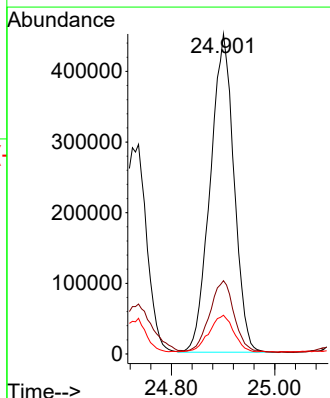
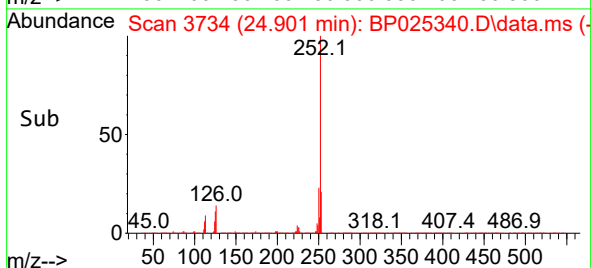
08/11/2025

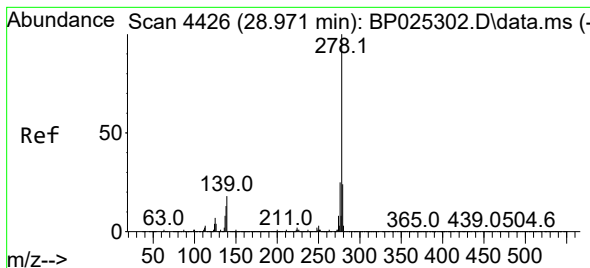


#90
Benzo(a)pyrene
Concen: 17.776 ng
RT: 24.901 min Scan# 3734
Delta R.T. 0.018 min
Lab File: BP025340.D
Acq: 08 Aug 2025 20:06



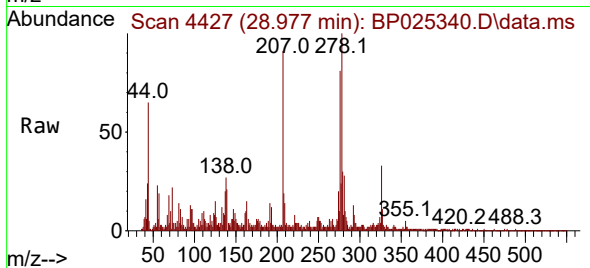
Tgt Ion:252 Resp: 1433699
Ion Ratio Lower Upper
252 100
253 22.9 17.6 26.4
125 12.1 9.4 14.0





#91
Dibenzo(a,h)anthracene
Concen: 2.895 ng
RT: 28.977 min Scan# 4426
Delta R.T. 0.006 min
Lab File: BP025340.D
Acq: 08 Aug 2025 20:06

Instrument :
BNA_P
ClientSampleId :
TP-5



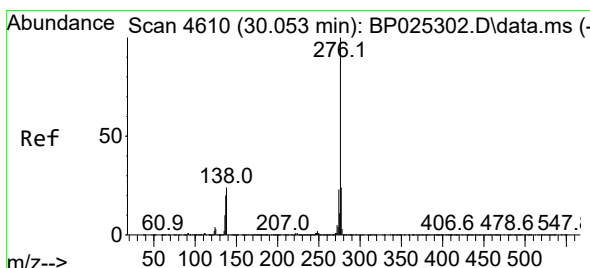
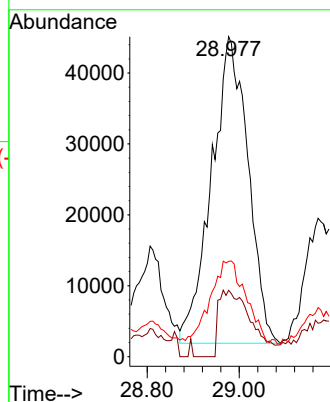
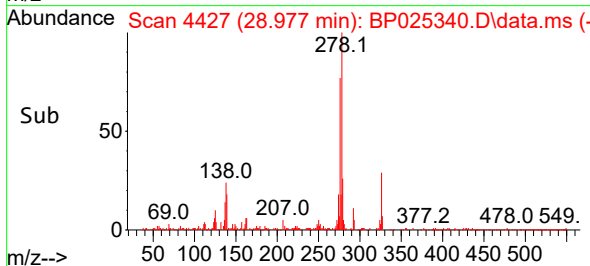
Tgt Ion: 278 Resp: 237789
Ion Ratio Lower Upper
278 100
139 20.8 14.6 22.0
279 29.8 19.0 28.4

Manual Integrations
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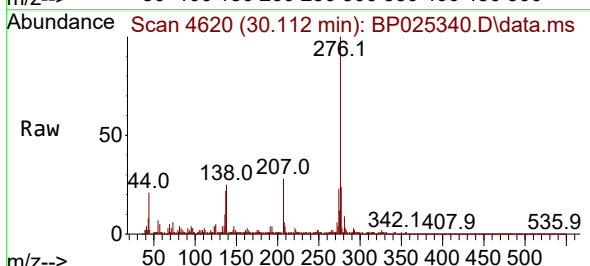
Reviewed By :Rahul
Chavli

08/11/2025
Supervised By :Jagrut
Upadhyay

08/11/2025



#92
Benzo(g,h,i)perylene
Concen: 9.937 ng
RT: 30.112 min Scan# 4620
Delta R.T. 0.059 min
Lab File: BP025340.D
Acq: 08 Aug 2025 20:06



Tgt Ion: 276 Resp: 800929
Ion Ratio Lower Upper
276 100
277 23.9 19.3 28.9
138 24.7 19.1 28.7

