

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081225\
 Data File : BP025370.D
 Acq On : 12 Aug 2025 17:19
 Operator : CG/JU
 Sample : Q2808-01 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 TP-7

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 08/13/2025
 Supervised By :Jagrut Upadhyay 08/13/2025

Quant Time: Aug 12 17:43:17 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

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.802	152	235329	20.000	ng	0.00
21) Naphthalene-d8	10.572	136	949844	20.000	ng	0.00
39) Acenaphthene-d10	14.425	164	582546	20.000	ng	0.00
64) Phenanthrene-d10	17.231	188	1080227	20.000	ng	0.00
76) Chrysene-d12	21.677	240	977814	20.000	ng	0.02
86) Perylene-d12	25.077	264	1172912	20.000	ng	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.414	112	579708	39.620	ng	0.00
7) Phenol-d6	6.972	99	724959	37.648	ng	0.00
23) Nitrobenzene-d5	8.937	82	459659	26.810	ng	0.00
42) 2,4,6-Tribromophenol	15.931	330	275198	47.354	ng	0.00
45) 2-Fluorobiphenyl	13.037	172	904235	21.439	ng	0.00
79) Terphenyl-d14	19.948	244	1084298	20.945	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.625	128	329710	6.687	ng	99
37) 2-Methylnaphthalene	12.231	142	131417	4.118	ng	97
38) 1-Methylnaphthalene	12.454	142	115773m	3.477	ng	
52) Acenaphthene	14.490	154	382350	11.474	ng	100
55) Dibenzofuran	14.837	168	359448	7.218	ng	98
58) Fluorene	15.495	166	617893	15.798	ng	96
71) Phenanthrene	17.278	178	4367746	73.823	ng	99
72) Anthracene	17.360	178	1427826	23.934	ng	100
73) Carbazole	17.642	167	361681	6.316	ng	99
75) Fluoranthene	19.360	202	4762456	69.534	ng	98
78) Pyrene	19.730	202	3989188	61.351	ng	99
81) Benzo(a)anthracene	21.660	228	2314575	35.621	ng	99
83) Chrysene	21.724	228	1875356	31.117	ng	97
84) Bis(2-ethylhexyl)phtha...	21.607	149	329451	7.824	ng	98
87) Indeno(1,2,3-cd)pyrene	28.924	276	1034806	12.309	ng	# 90
88) Benzo(b)fluoranthene	24.013	252	2248442	32.023	ng	96
89) Benzo(k)fluoranthene	24.071	252	870364m	12.505	ng	
90) Benzo(a)pyrene	24.918	252	1775406	26.257	ng	97
91) Dibenzo(a,h)anthracene	29.006	278	310458	4.509	ng	# 88
92) Benzo(g,h,i)perylene	30.124	276	870153	12.877	ng	99

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

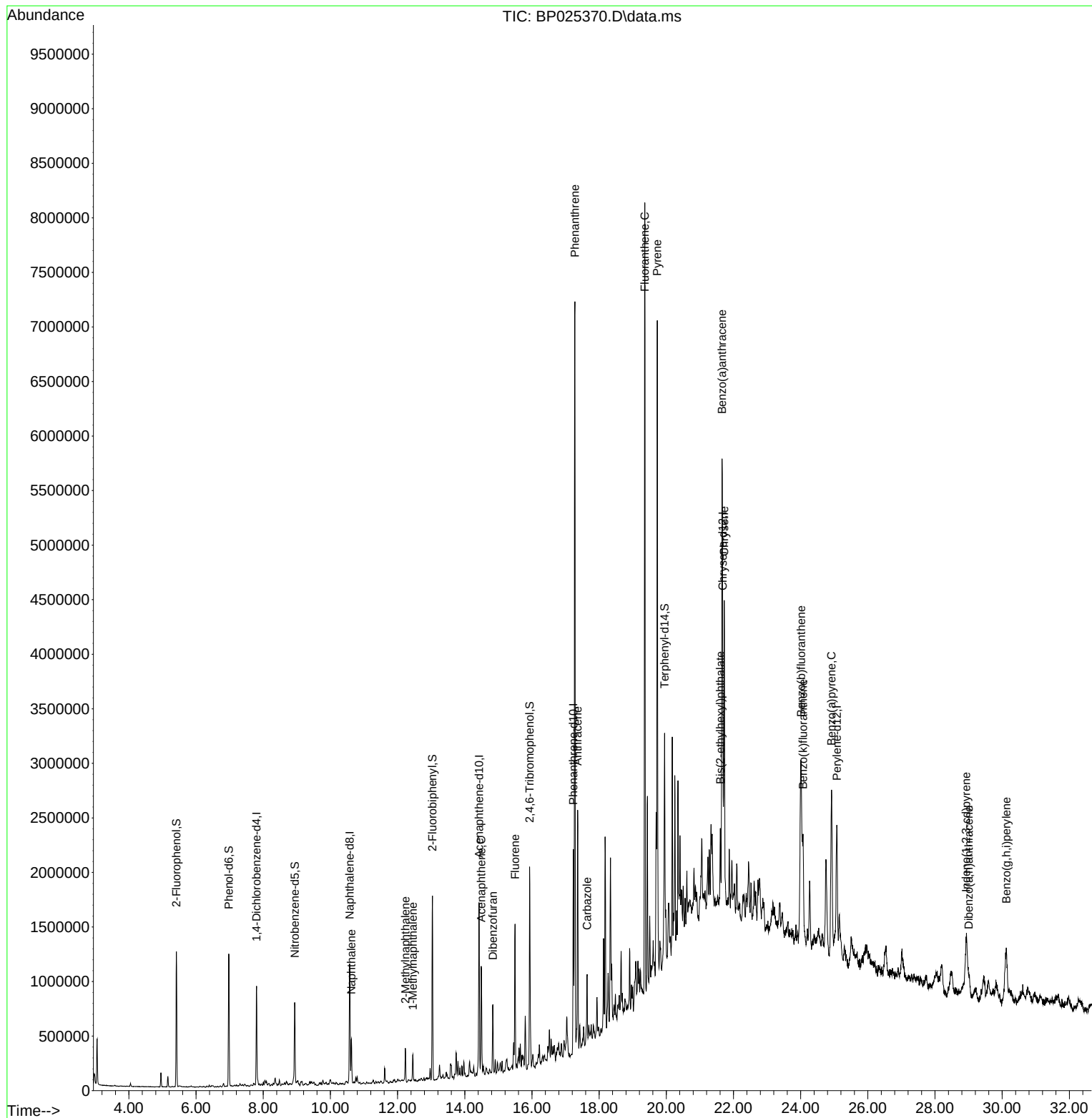
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081225\
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ALS Vial : 12 Sample Multiplier: 1

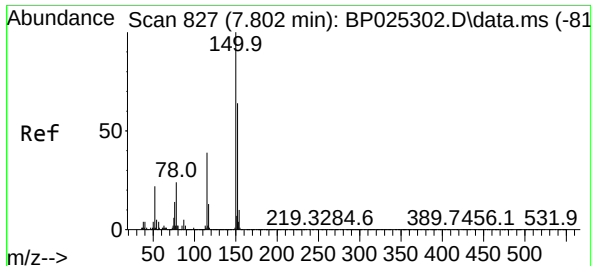
Instrument :
BNA_P
ClientSampleId :
TP-7

Quant Time: Aug 12 17:43:17 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
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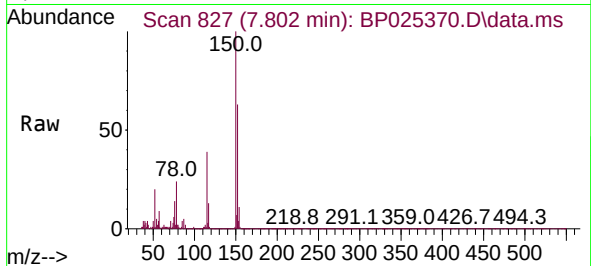
Reviewed By :Rahul Chavli 08/13/2025
Supervised By :Jagrut Upadhyay 08/13/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.802 min Scan# 81
Delta R.T. -0.000 min
Lab File: BP025370.D
Acq: 12 Aug 2025 17:19

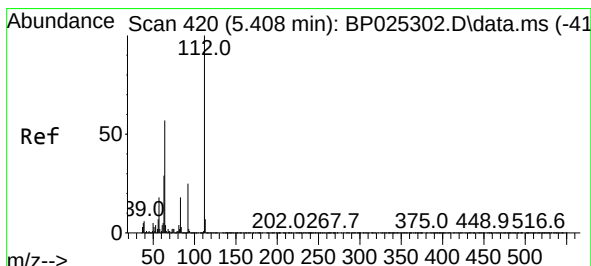
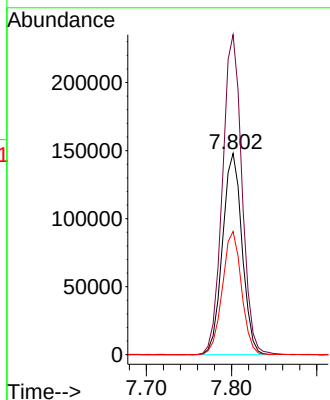
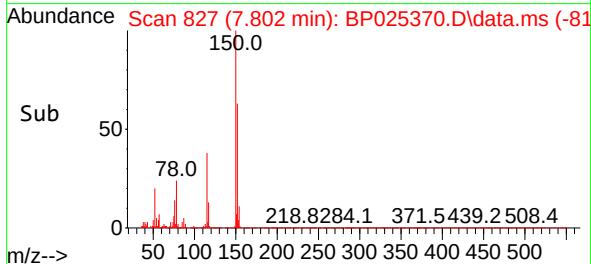
Instrument :
BNA_P
ClientSampleId :
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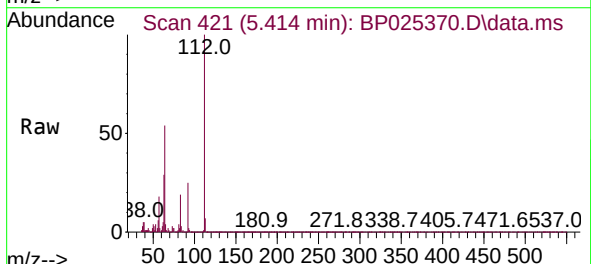
Tgt Ion:152 Resp: 235329
Ion Ratio Lower Upper
152 100
150 159.0 125.1 187.7
115 61.2 48.4 72.6

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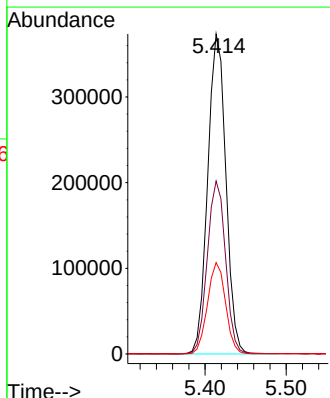
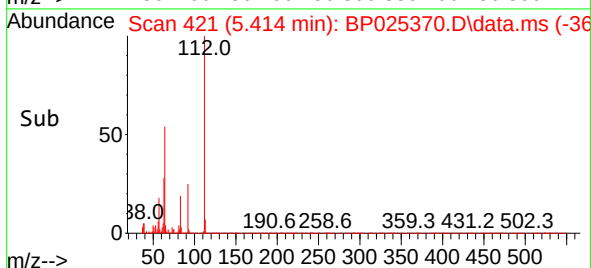
Reviewed By :Rahul Chavli 08/13/2025
Supervised By :Jagrut Upadhyay 08/13/2025

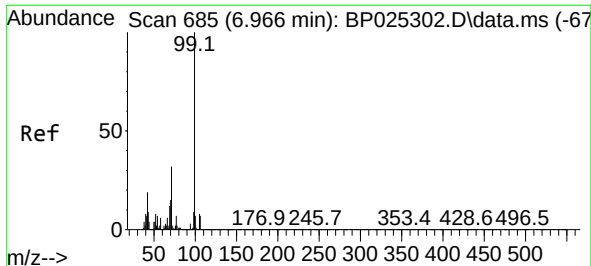


#5
2-Fluorophenol
Concen: 39.620 ng
RT: 5.414 min Scan# 421
Delta R.T. 0.006 min
Lab File: BP025370.D
Acq: 12 Aug 2025 17:19



Tgt Ion:112 Resp: 579708
Ion Ratio Lower Upper
112 100
64 54.1 45.3 67.9
63 28.5 23.0 34.6





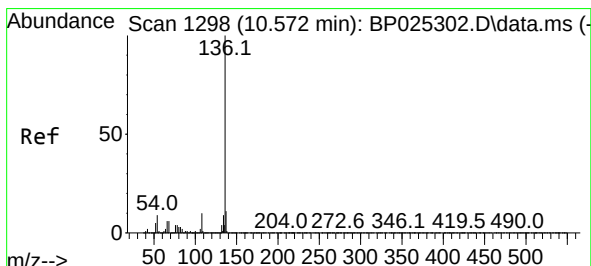
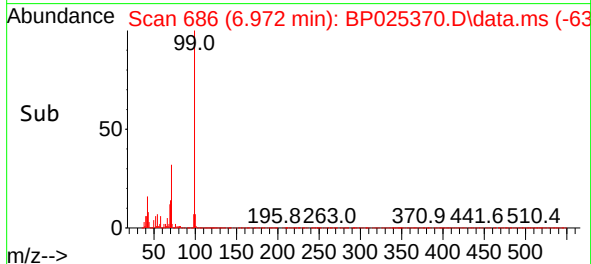
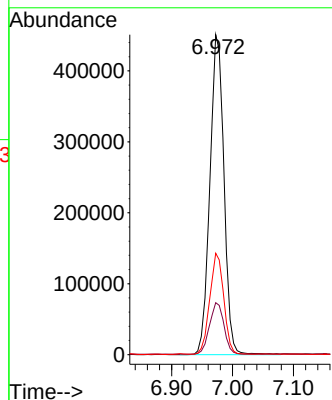
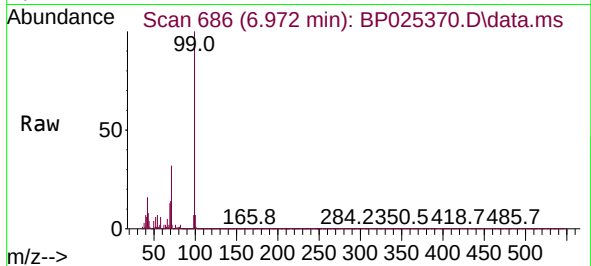
#7
Phenol-d6
Concen: 37.648 ng
RT: 6.972 min Scan# 685
Delta R.T. 0.006 min
Lab File: BP025370.D
Acq: 12 Aug 2025 17:19

Instrument :
BNA_P
ClientSampleId :
TP-7

Tgt Ion: 99 Resp: 724959
Ion Ratio Lower Upper
99 100
42 16.2 15.0 22.6
71 31.7 25.5 38.3

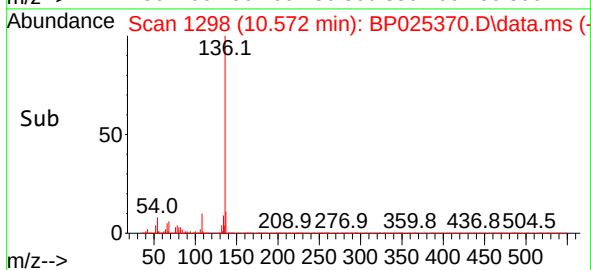
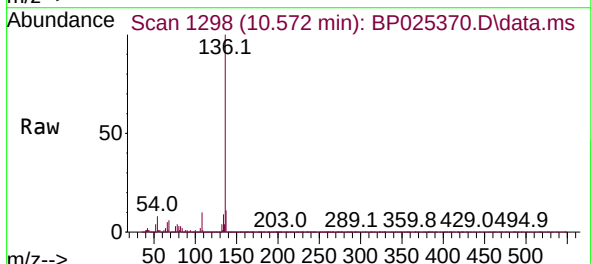
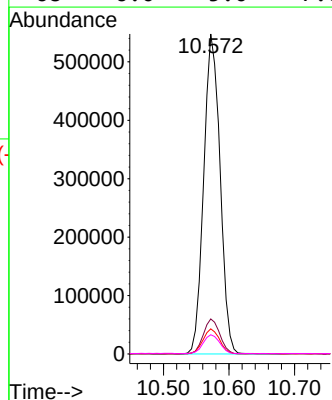
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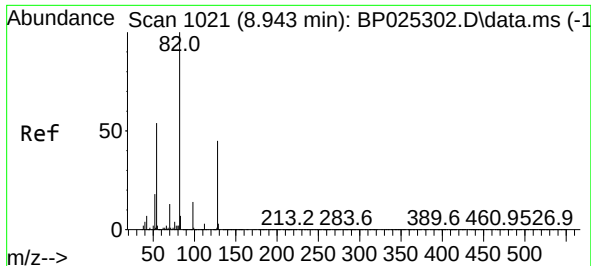
Reviewed By :Rahul Chavli 08/13/2025
Supervised By :Jagrut Upadhyay 08/13/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.572 min Scan# 1298
Delta R.T. 0.000 min
Lab File: BP025370.D
Acq: 12 Aug 2025 17:19

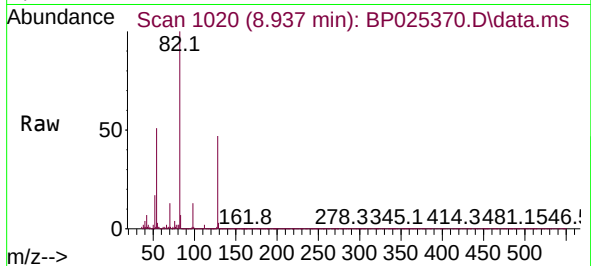
Tgt Ion:136 Resp: 949844
Ion Ratio Lower Upper
136 100
137 11.0 8.9 13.3
54 7.9 7.0 10.6
68 6.0 5.0 7.6





#23
Nitrobenzene-d5
Concen: 26.810 ng
RT: 8.937 min Scan# 1020
Delta R.T. -0.006 min
Lab File: BP025370.D
Acq: 12 Aug 2025 17:19

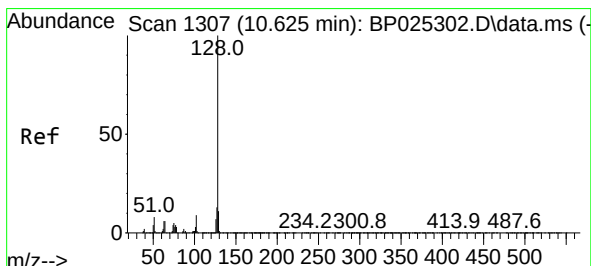
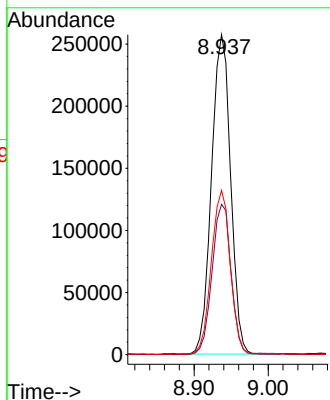
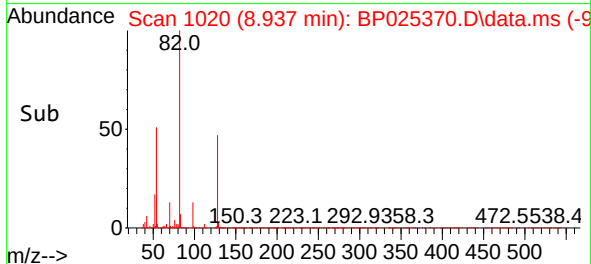
Instrument :
BNA_P
ClientSampleId :
TP-7



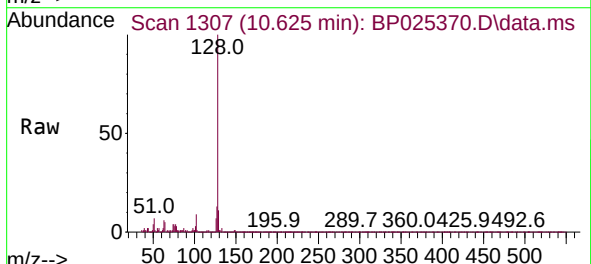
Tgt Ion: 82 Resp: 459659
Ion Ratio Lower Upper
82 100
128 47.0 35.4 53.2
54 51.3 42.9 64.3

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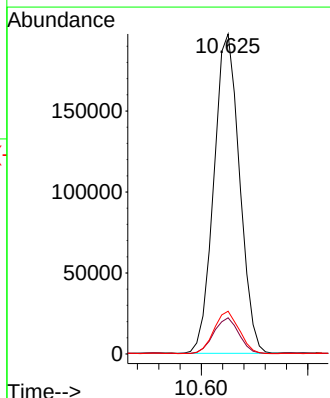
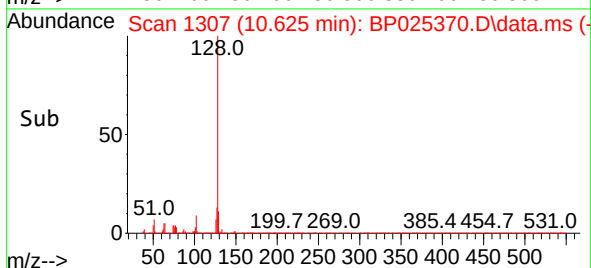
Reviewed By :Rahul Chavli 08/13/2025
Supervised By :Jagrut Upadhyay 08/13/2025

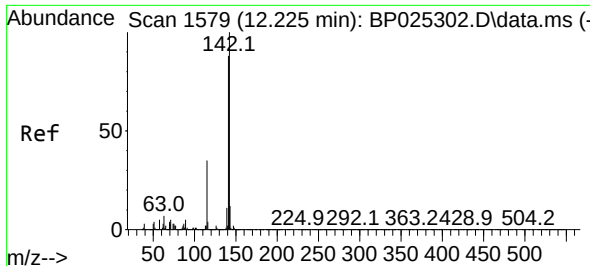


#31
Naphthalene
Concen: 6.687 ng
RT: 10.625 min Scan# 1307
Delta R.T. 0.000 min
Lab File: BP025370.D
Acq: 12 Aug 2025 17:19



Tgt Ion:128 Resp: 329710
Ion Ratio Lower Upper
128 100
129 11.3 8.9 13.3
127 13.4 10.4 15.6





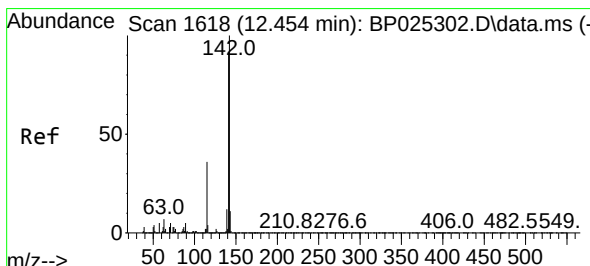
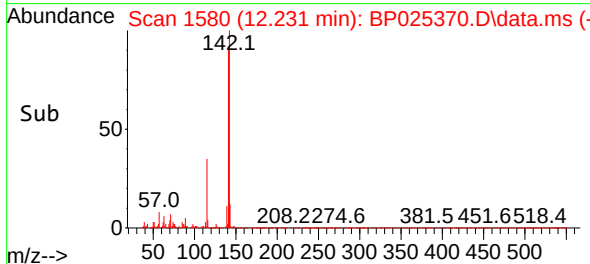
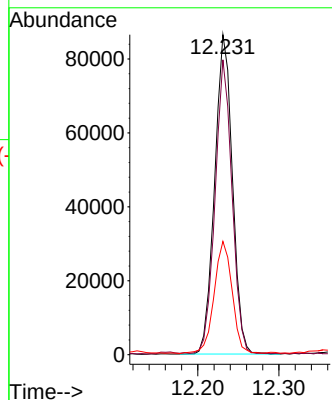
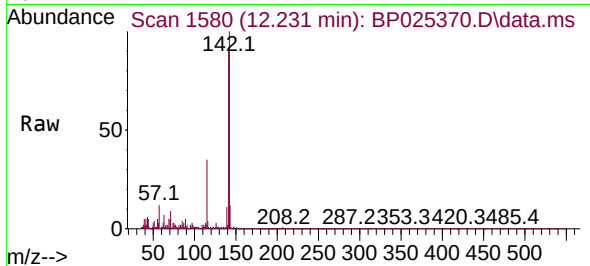
#37
2-Methylnaphthalene
Concen: 4.118 ng
RT: 12.231 min Scan# 1580
Delta R.T. 0.006 min
Lab File: BP025370.D
Acq: 12 Aug 2025 17:19

Instrument :
BNA_P
ClientSampleId :
TP-7

Tgt Ion:142 Resp: 13141
Ion Ratio Lower Upper
142 100
141 92.1 70.4 105.6
115 35.4 28.0 42.0

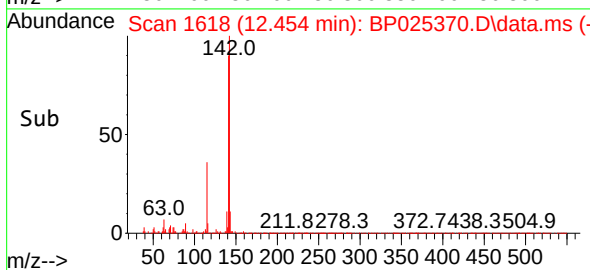
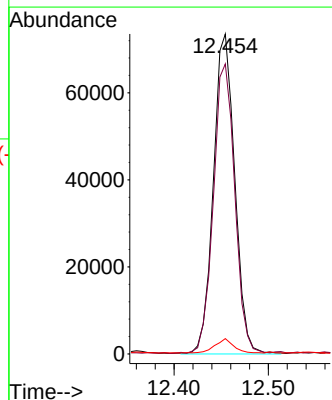
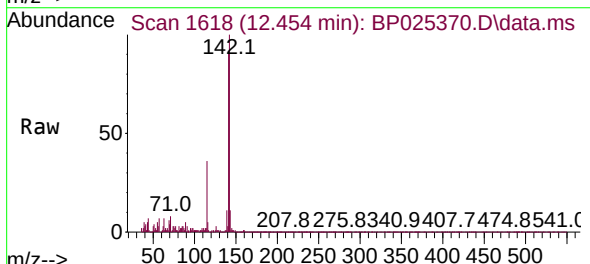
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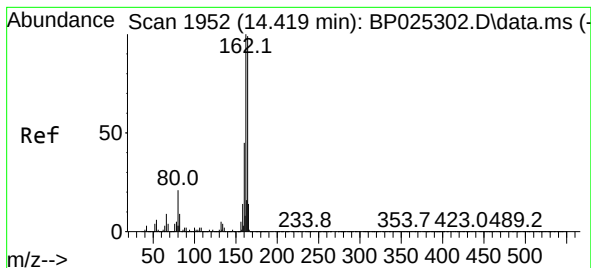
Reviewed By :Rahul Chavli 08/13/2025
Supervised By :Jagrut Upadhyay 08/13/2025



#38
1-Methylnaphthalene
Concen: 3.477 ng m
RT: 12.454 min Scan# 1618
Delta R.T. 0.000 min
Lab File: BP025370.D
Acq: 12 Aug 2025 17:19

Tgt Ion:142 Resp: 115773
Ion Ratio Lower Upper
142 100
141 90.7 73.0 109.6
116 4.8 3.0 4.6#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.425 min Scan# 1953

Delta R.T. 0.006 min

Lab File: BP025370.D

Acq: 12 Aug 2025 17:19

Instrument :

BNA_P

ClientSampleId :

TP-7

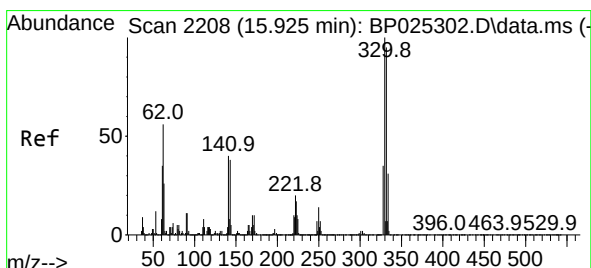
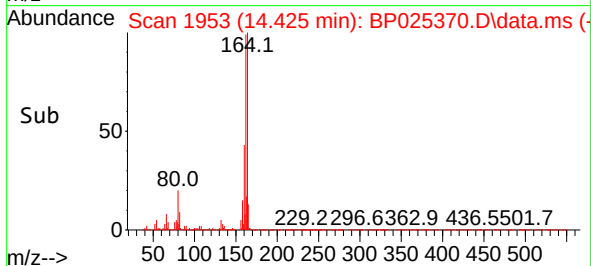
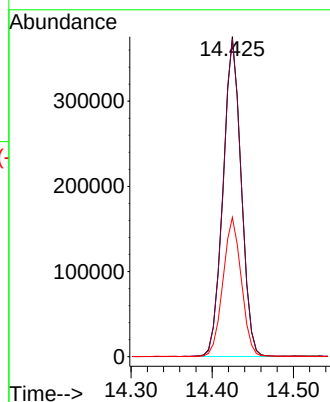
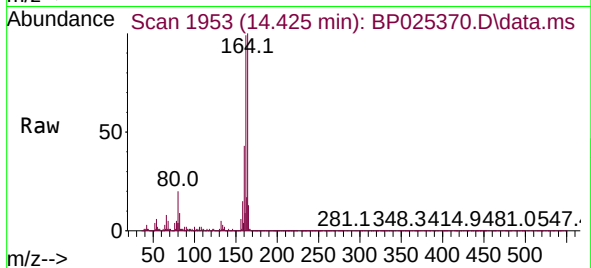
Tgt Ion:	164	Resp:	582540
Ion Ratio	Lower	Upper	
164	100		
162	99.2	80.6	120.8
160	43.5	35.9	53.9

Manual Integrations

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#42

2,4,6-Tribromophenol

Concen: 47.354 ng

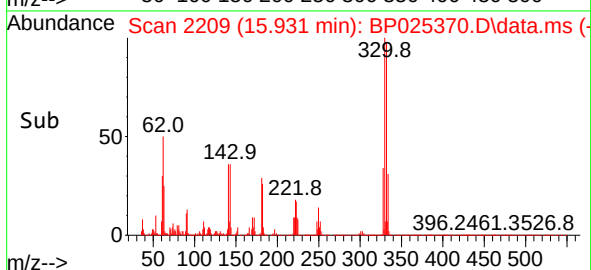
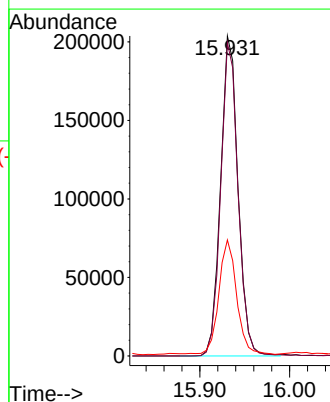
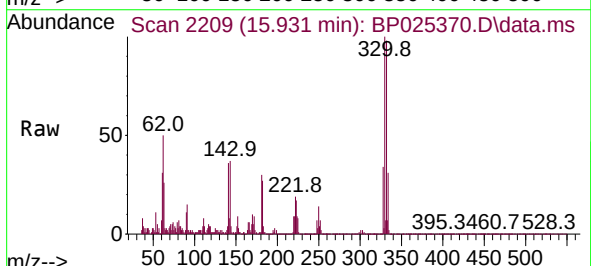
RT: 15.931 min Scan# 2209

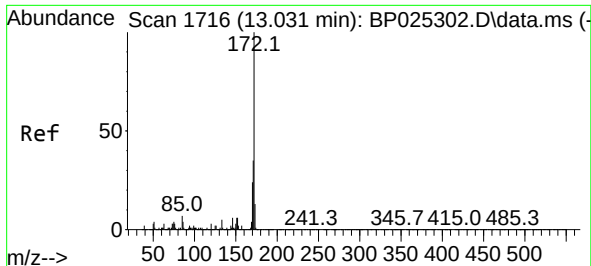
Delta R.T. 0.006 min

Lab File: BP025370.D

Acq: 12 Aug 2025 17:19

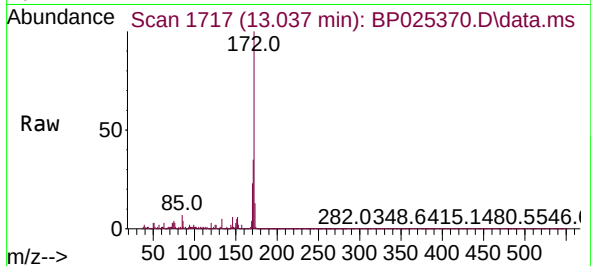
Tgt Ion:	330	Resp:	275198
Ion Ratio	Lower	Upper	
330	100		
332	97.5	77.4	116.0
141	36.3	31.7	47.5





#45
2-Fluorobiphenyl
Concen: 21.439 ng
RT: 13.037 min Scan# 1716
Delta R.T. 0.006 min
Lab File: BP025370.D
Acq: 12 Aug 2025 17:19

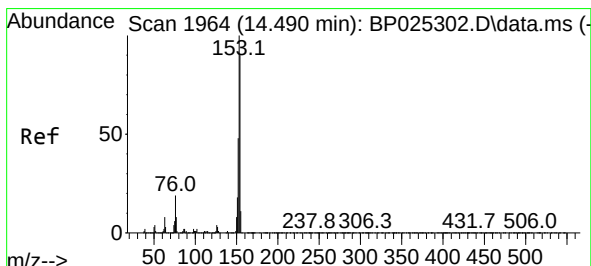
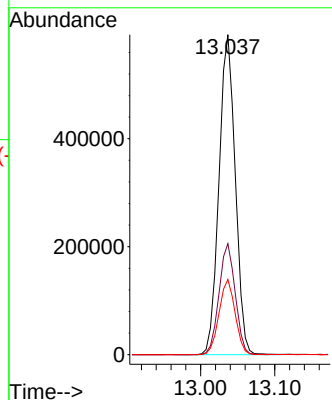
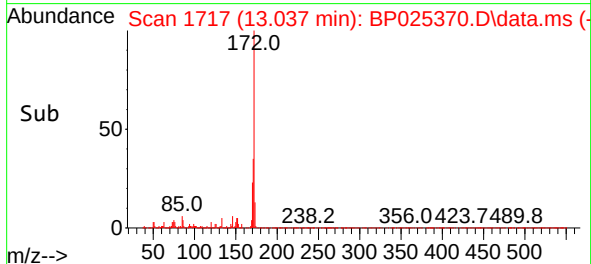
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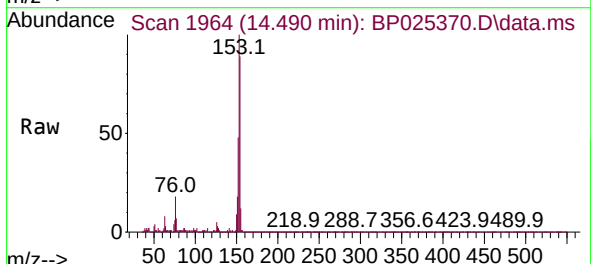
Tgt Ion:172 Resp: 904235
Ion Ratio Lower Upper
172 100
171 34.7 27.9 41.9
170 23.5 18.9 28.3

Manual Integrations
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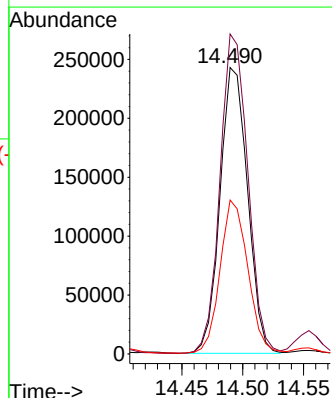
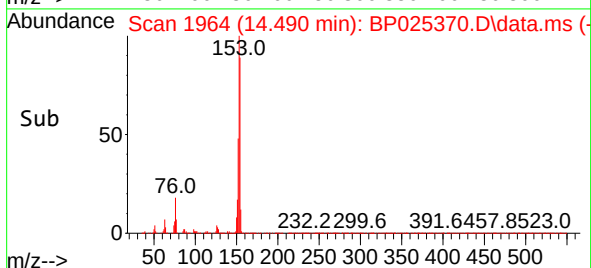
Reviewed By :Rahul Chavli 08/13/2025
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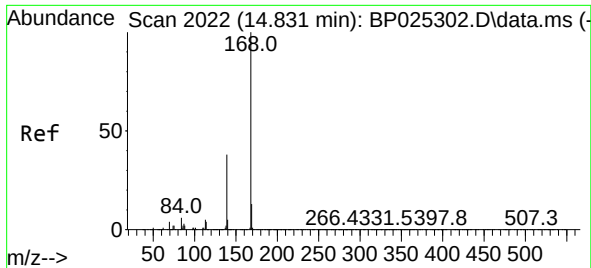


#52
Acenaphthene
Concen: 11.474 ng
RT: 14.490 min Scan# 1964
Delta R.T. -0.000 min
Lab File: BP025370.D
Acq: 12 Aug 2025 17:19



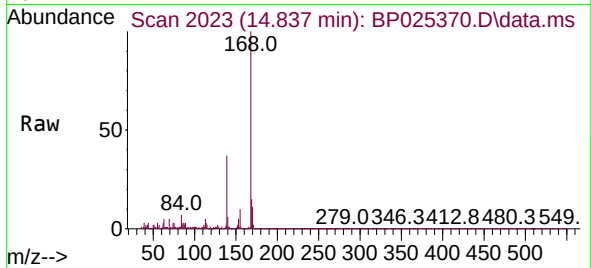
Tgt Ion:154 Resp: 382350
Ion Ratio Lower Upper
154 100
153 111.7 89.4 134.0
152 53.7 43.0 64.6





#55
Dibenzenofuran
Concen: 7.218 ng
RT: 14.837 min Scan# 20
Delta R.T. 0.006 min
Lab File: BP025370.D
Acq: 12 Aug 2025 17:19

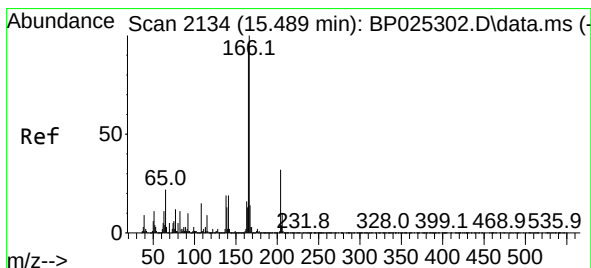
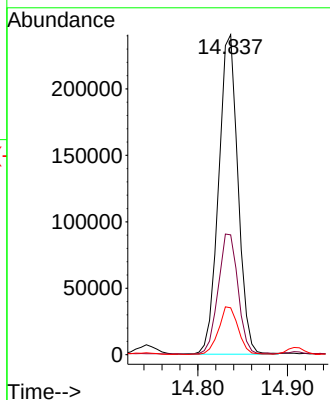
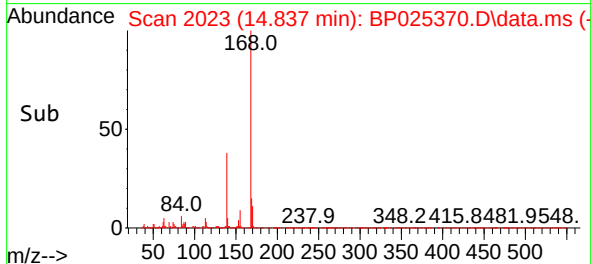
Instrument :
BNA_P
ClientSampleId :
TP-7



Tgt Ion:168 Resp: 359448
Ion Ratio Lower Upper
168 100
139 37.5 30.5 45.7
169 14.7 10.6 15.8

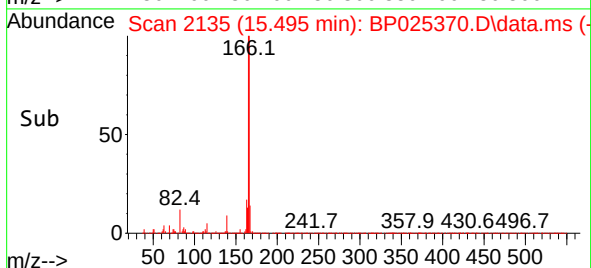
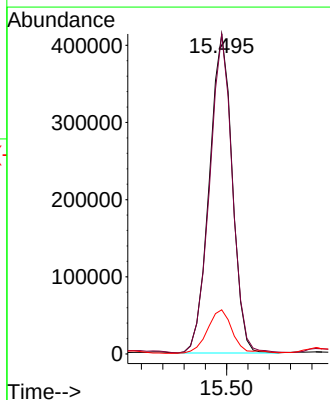
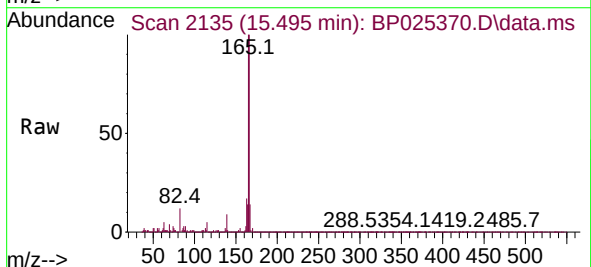
Manual Integrations
APPROVED

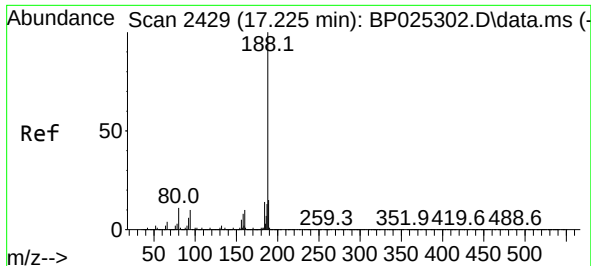
Reviewed By :Rahul Chavli 08/13/2025
Supervised By :Jagrut Upadhyay 08/13/2025



#58
Fluorene
Concen: 15.798 ng
RT: 15.495 min Scan# 2135
Delta R.T. 0.006 min
Lab File: BP025370.D
Acq: 12 Aug 2025 17:19

Tgt Ion:166 Resp: 617893
Ion Ratio Lower Upper
166 100
165 99.9 76.7 115.1
167 13.8 10.9 16.3





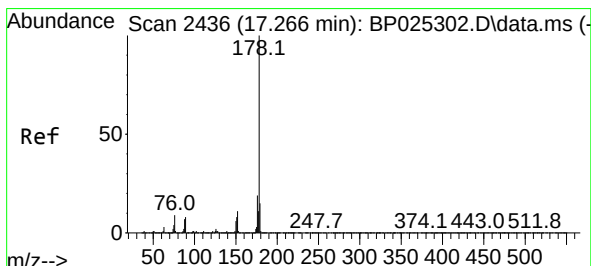
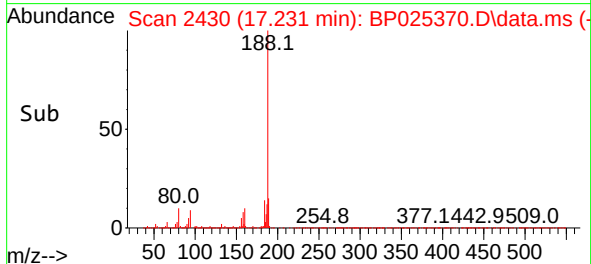
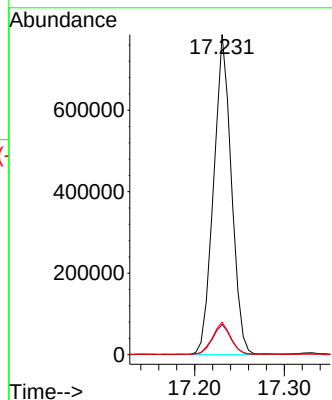
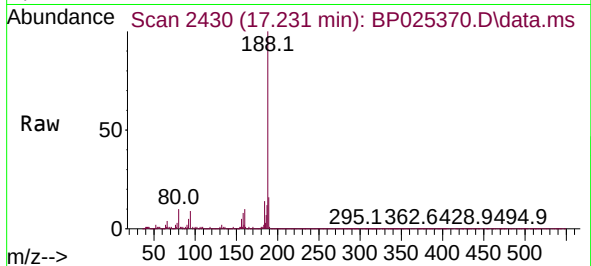
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.231 min Scan# 2429
Delta R.T. 0.006 min
Lab File: BP025370.D
Acq: 12 Aug 2025 17:19

Instrument :
BNA_P
ClientSampleId :
TP-7

Tgt Ion:188 Resp: 108022
Ion Ratio Lower Upper
188 100
94 9.5 8.0 12.0
80 10.1 8.5 12.7

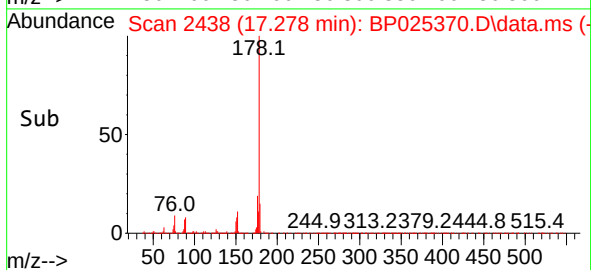
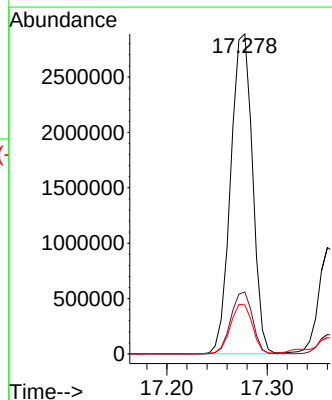
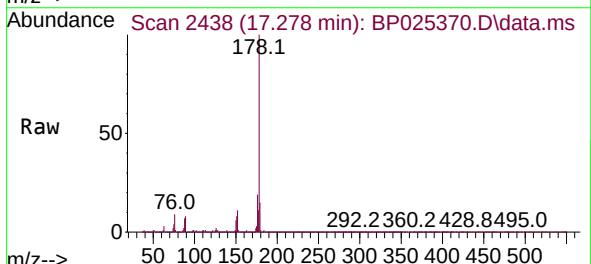
Manual Integrations
APPROVED

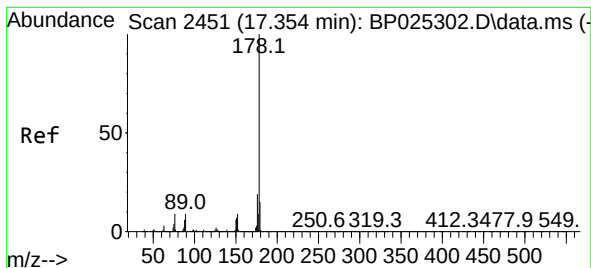
Reviewed By :Rahul Chavli 08/13/2025
Supervised By :Jagrut Upadhyay 08/13/2025



#71
Phenanthrene
Concen: 73.823 ng
RT: 17.278 min Scan# 2438
Delta R.T. 0.012 min
Lab File: BP025370.D
Acq: 12 Aug 2025 17:19

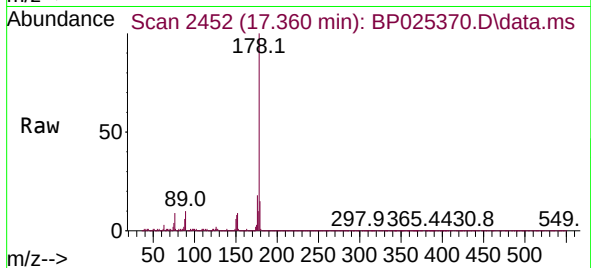
Tgt Ion:178 Resp: 4367746
Ion Ratio Lower Upper
178 100
176 19.4 15.3 22.9
179 15.3 12.1 18.1





#72
 Anthracene
 Concen: 23.934 ng
 RT: 17.360 min Scan# 2451
 Delta R.T. 0.006 min
 Lab File: BP025370.D
 Acq: 12 Aug 2025 17:19

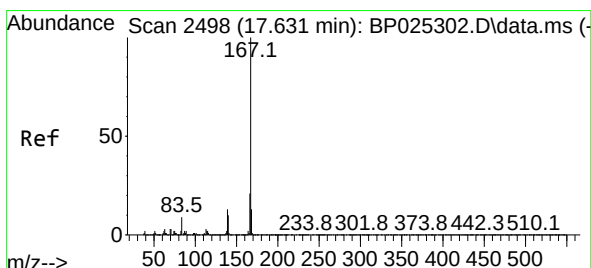
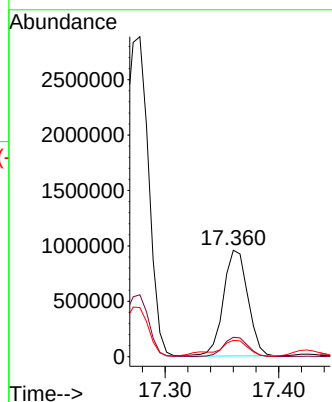
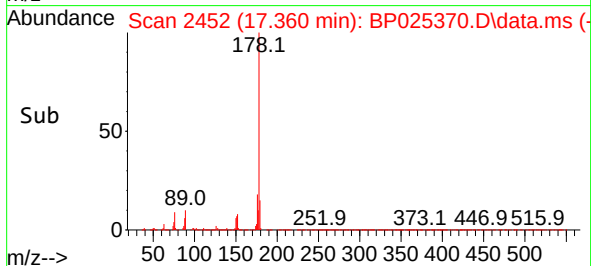
Instrument :
 BNA_P
 ClientSampleId :
 TP-7



Tgt Ion:178 Resp: 1427820
 Ion Ratio Lower Upper
 178 100
 176 18.2 14.8 22.2
 179 15.3 12.3 18.5

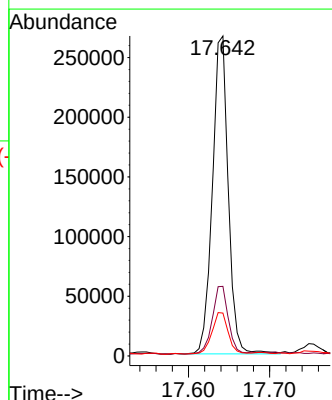
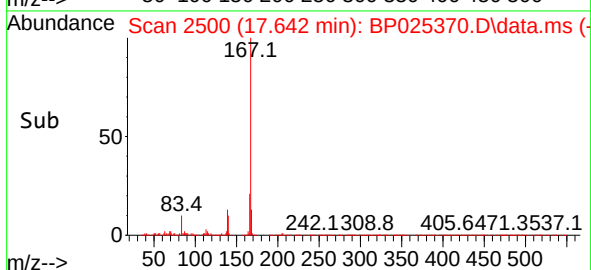
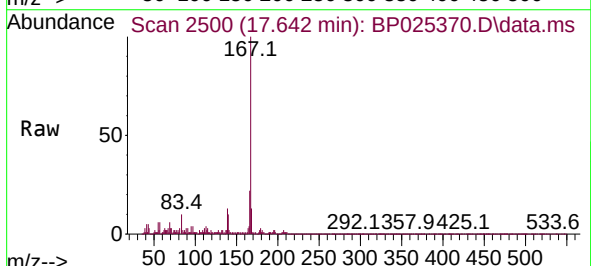
Manual Integrations
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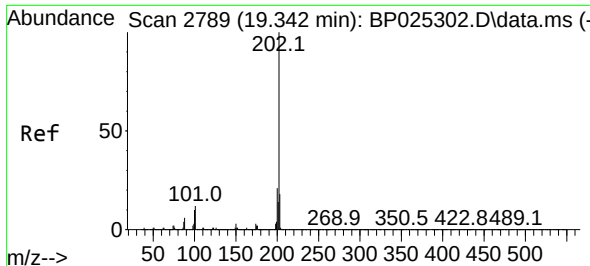
Reviewed By :Rahul Chavli 08/13/2025
 Supervised By :Jagrut Upadhyay 08/13/2025



#73
 Carbazole
 Concen: 6.316 ng
 RT: 17.642 min Scan# 2500
 Delta R.T. 0.011 min
 Lab File: BP025370.D
 Acq: 12 Aug 2025 17:19

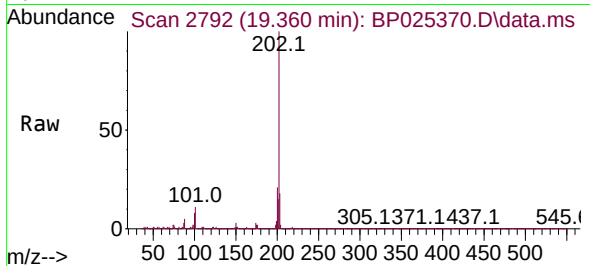
Tgt Ion:167 Resp: 361681
 Ion Ratio Lower Upper
 167 100
 166 21.8 17.0 25.6
 139 13.4 10.6 16.0





#75
Fluoranthene
Concen: 69.534 ng
RT: 19.360 min Scan# 21
Delta R.T. 0.018 min
Lab File: BP025370.D
Acq: 12 Aug 2025 17:19

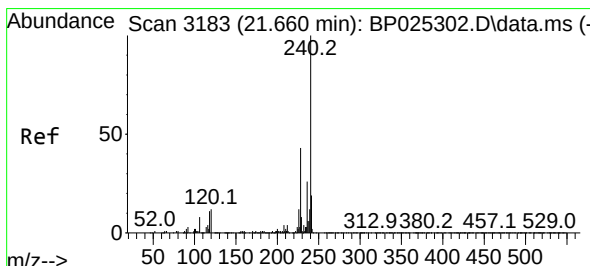
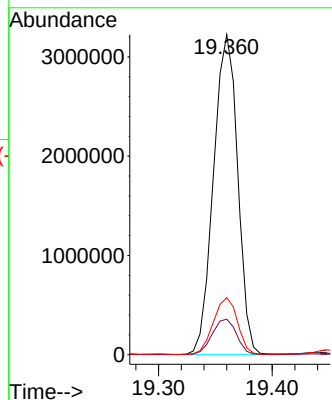
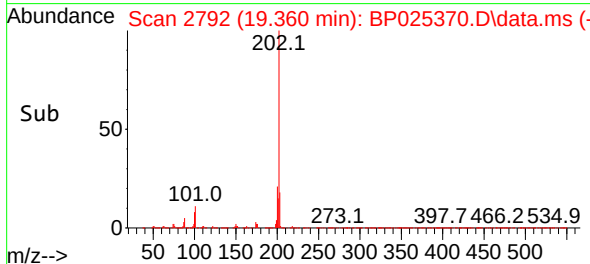
Instrument :
BNA_P
ClientSampleId :
TP-7



Tgt Ion:202 Resp: 4762450
Ion Ratio Lower Upper
202 100
101 11.1 0.0 32.5
203 17.8 0.0 37.6

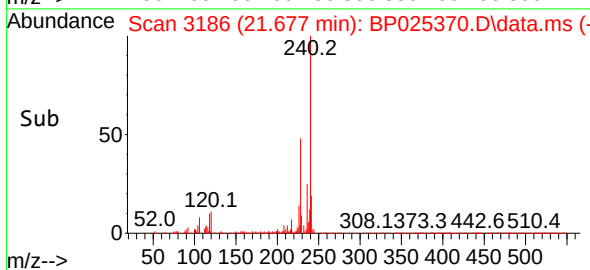
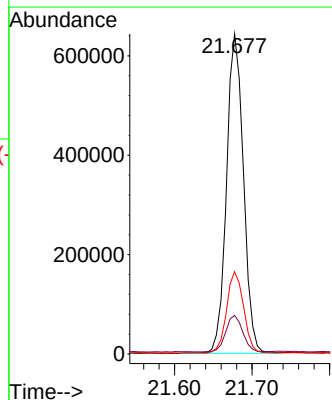
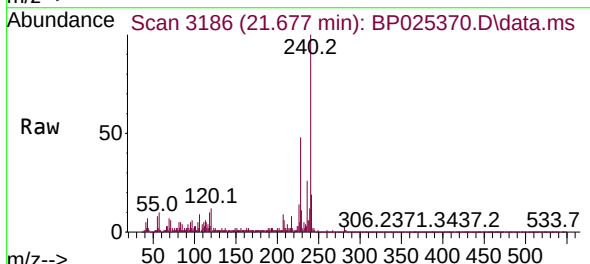
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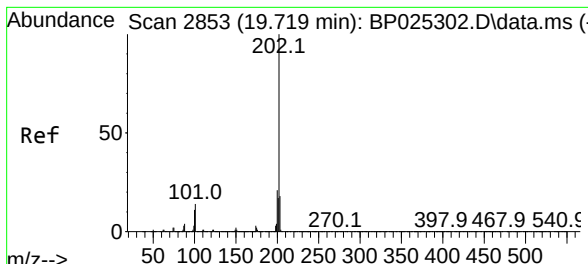
Reviewed By :Rahul Chavli 08/13/2025
Supervised By :Jagrut Upadhyay 08/13/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.677 min Scan# 3186
Delta R.T. 0.017 min
Lab File: BP025370.D
Acq: 12 Aug 2025 17:19

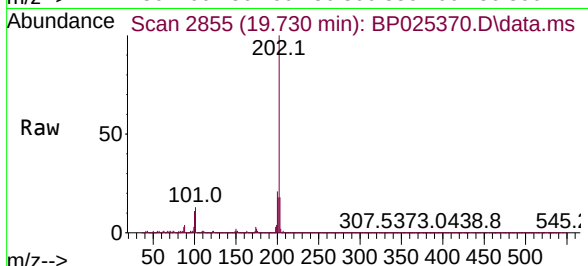
Tgt Ion:240 Resp: 977814
Ion Ratio Lower Upper
240 100
120 12.1 9.6 14.4
236 25.7 20.4 30.6





#78
 Pyrene
 Concen: 61.351 ng
 RT: 19.730 min Scan# 2855
 Delta R.T. 0.011 min
 Lab File: BP025370.D
 Acq: 12 Aug 2025 17:19

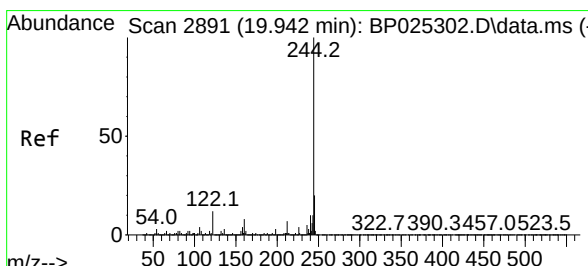
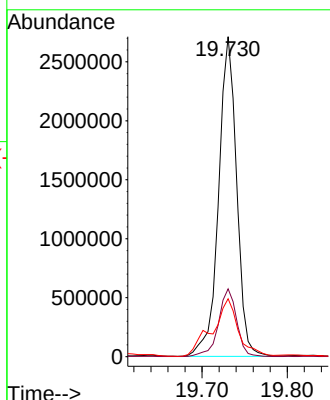
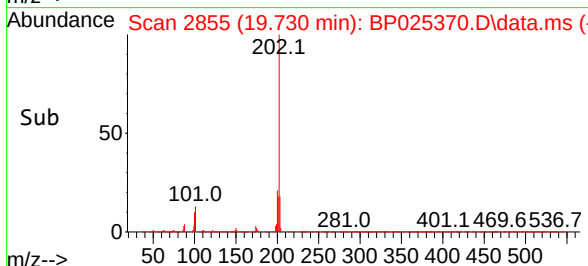
Instrument :
 BNA_P
 ClientSampleId :
 TP-7



Tgt Ion:202 Resp: 3989188
 Ion Ratio Lower Upper
 202 100
 200 21.2 16.7 25.1
 203 18.1 14.1 21.1

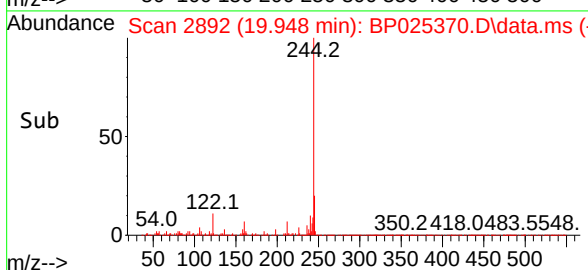
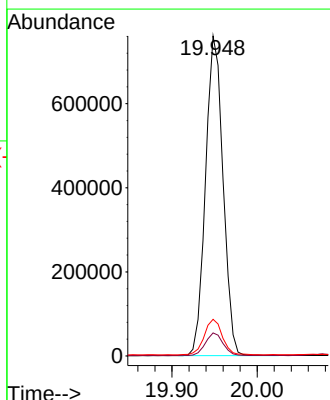
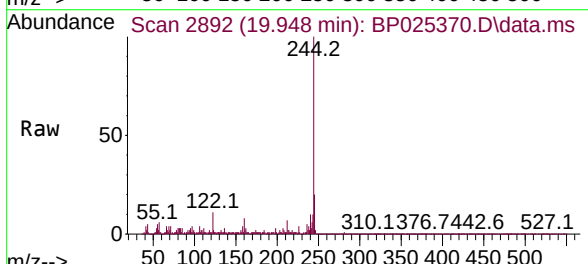
Manual Integrations
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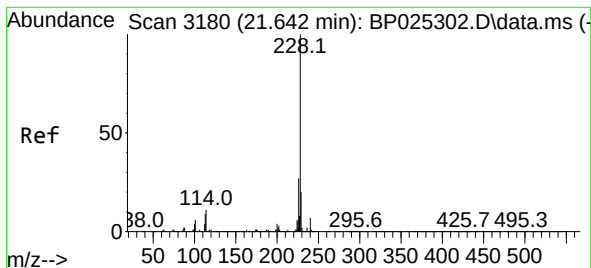
Reviewed By :Rahul Chavli 08/13/2025
 Supervised By :Jagrut Upadhyay 08/13/2025



#79
 Terphenyl-d14
 Concen: 20.945 ng
 RT: 19.948 min Scan# 2892
 Delta R.T. 0.006 min
 Lab File: BP025370.D
 Acq: 12 Aug 2025 17:19

Tgt Ion:244 Resp: 1084298
 Ion Ratio Lower Upper
 244 100
 212 7.2 5.9 8.9
 122 11.4 9.5 14.3





#81

Benzo(a)anthracene

Concen: 35.621 ng

RT: 21.660 min Scan# 3183

Delta R.T. 0.018 min

Lab File: BP025370.D

Acq: 12 Aug 2025 17:19

Instrument :

BNA_P

ClientSampleId :

TP-7

Tgt Ion:228 Resp: 231457

Ion Ratio Lower Upper

228 100

226 27.5 21.8 32.8

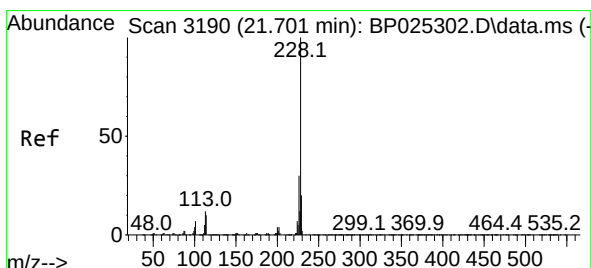
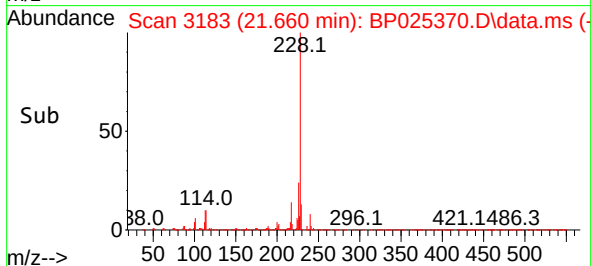
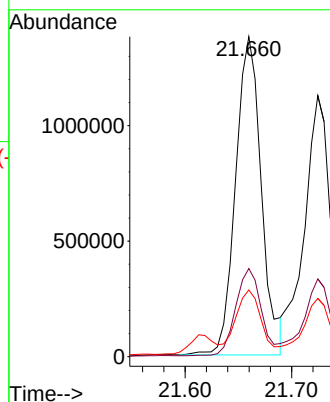
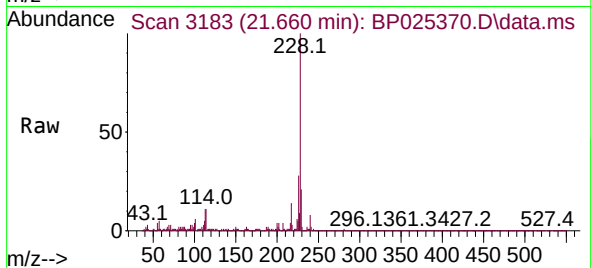
229 20.8 16.0 24.0

Manual Integrations

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Reviewed By :Rahul Chavli 08/13/2025

Supervised By :Jagrut Upadhyay 08/13/2025



#83

Chrysene

Concen: 31.117 ng

RT: 21.724 min Scan# 3194

Delta R.T. 0.023 min

Lab File: BP025370.D

Acq: 12 Aug 2025 17:19

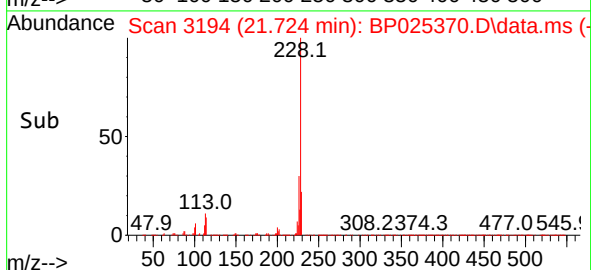
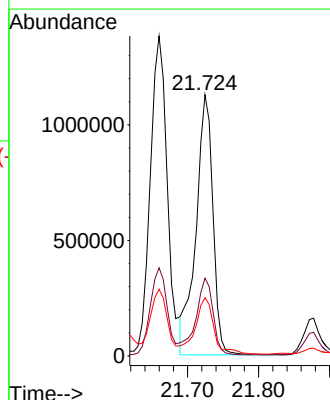
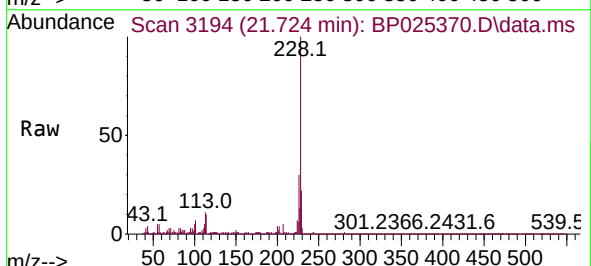
Tgt Ion:228 Resp: 1875356

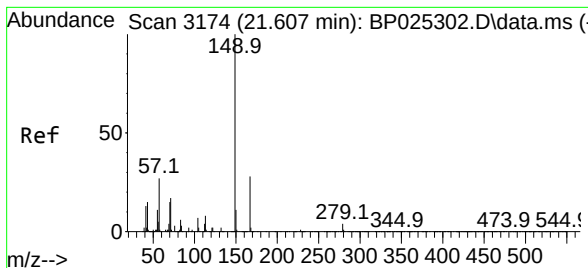
Ion Ratio Lower Upper

228 100

226 29.8 24.3 36.5

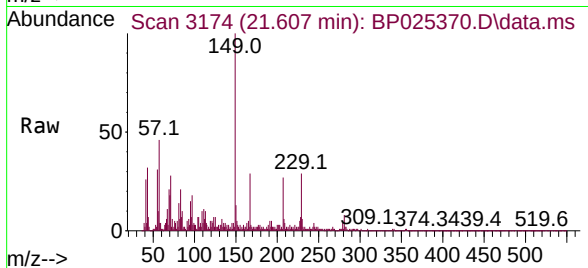
229 22.3 15.9 23.9





#84
Bis(2-ethylhexyl)phthalate
Concen: 7.824 ng
RT: 21.607 min Scan# 3174
Delta R.T. -0.000 min
Lab File: BP025370.D
Acq: 12 Aug 2025 17:19

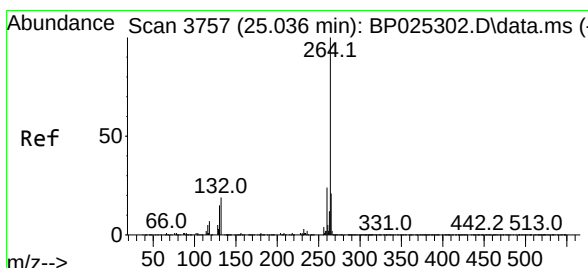
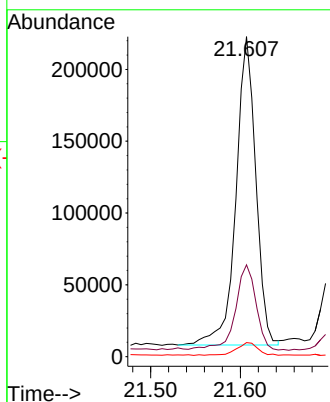
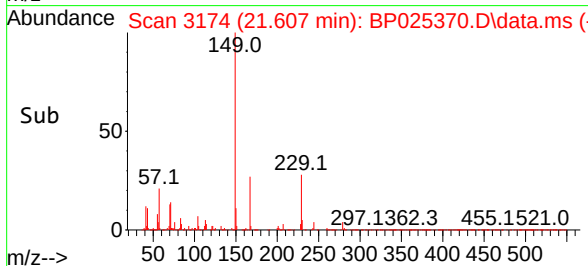
Instrument :
BNA_P
ClientSampleId :
TP-7



Tgt Ion:149 Resp: 32945
Ion Ratio Lower Upper
149 100
167 28.7 22.1 33.1
279 4.4 3.4 5.2

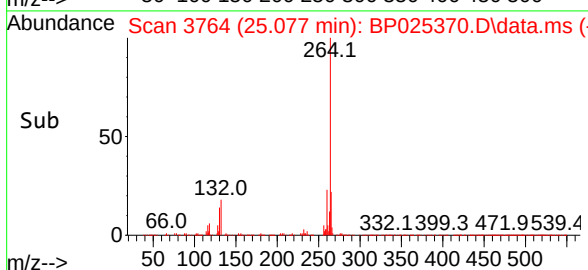
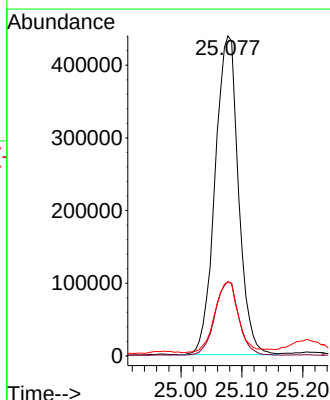
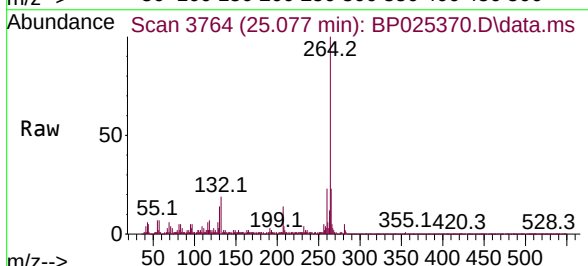
Manual Integrations
APPROVED

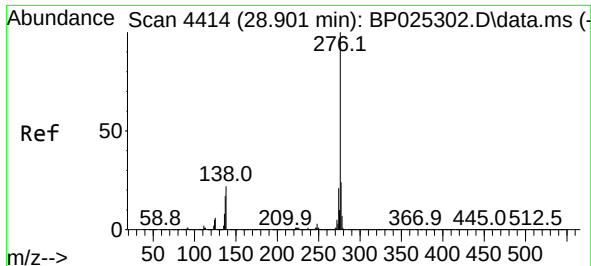
Reviewed By :Rahul Chavli 08/13/2025
Supervised By :Jagrut Upadhyay 08/13/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 25.077 min Scan# 3764
Delta R.T. 0.041 min
Lab File: BP025370.D
Acq: 12 Aug 2025 17:19

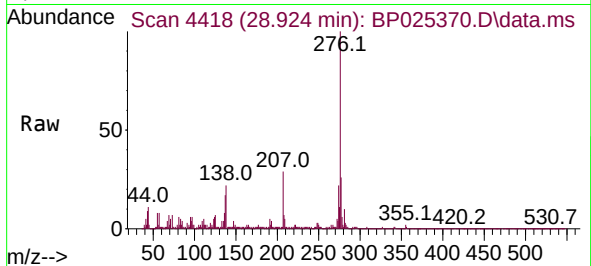
Tgt Ion:264 Resp: 1172912
Ion Ratio Lower Upper
264 100
260 23.3 19.2 28.8
265 23.1 17.1 25.7





#87
Indeno(1,2,3-cd)pyrene
Concen: 12.309 ng
RT: 28.924 min Scan# 4414
Delta R.T. 0.023 min
Lab File: BP025370.D
Acq: 12 Aug 2025 17:19

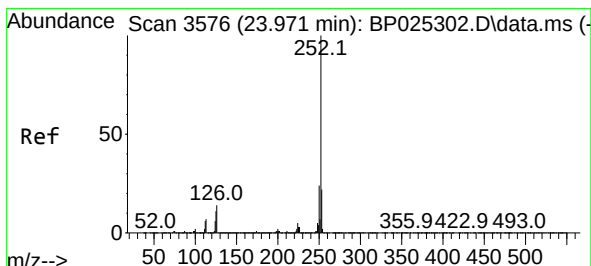
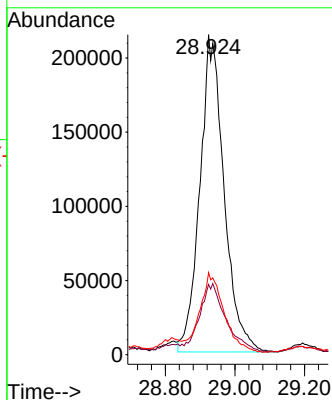
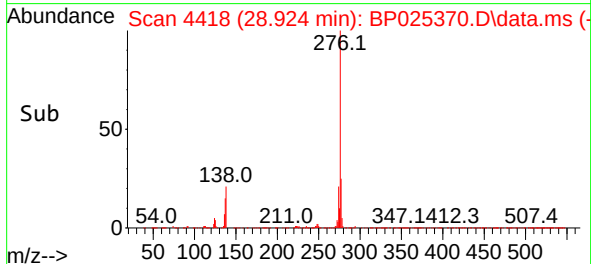
Instrument :
BNA_P
ClientSampleId :
TP-7



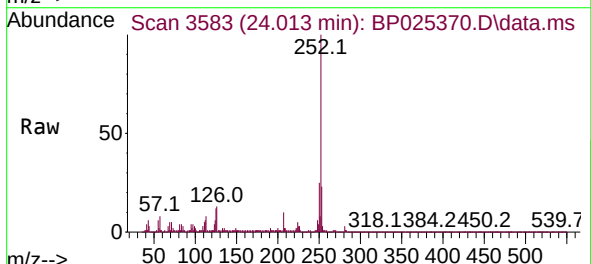
Tgt Ion:276 Resp: 1034800
Ion Ratio Lower Upper
276 100
138 23.4 14.6 22.0
277 24.8 16.8 25.2

Manual Integrations
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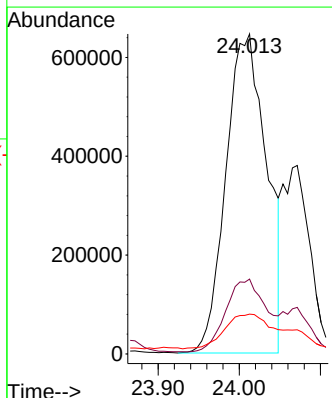
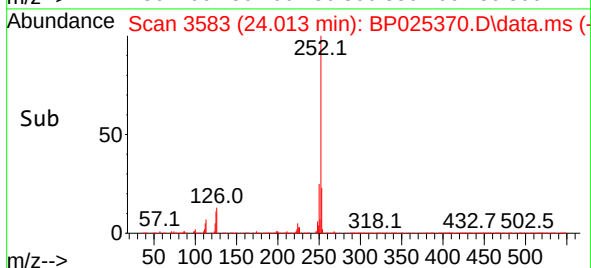
Reviewed By :Rahul Chavli 08/13/2025
Supervised By :Jagrut Upadhyay 08/13/2025

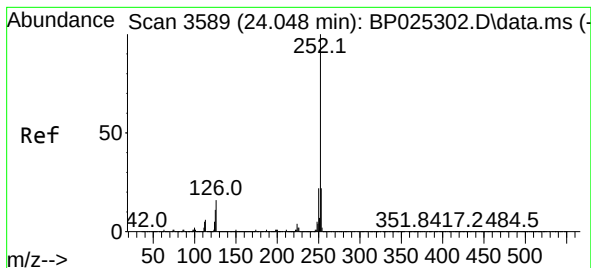


#88
Benzo(b)fluoranthene
Concen: 32.023 ng
RT: 24.013 min Scan# 3583
Delta R.T. 0.042 min
Lab File: BP025370.D
Acq: 12 Aug 2025 17:19



Tgt Ion:252 Resp: 2248442
Ion Ratio Lower Upper
252 100
253 23.4 17.5 26.3
125 12.5 8.5 12.7





#89

Benzo(k)fluoranthene

Concen: 12.505 ng m

RT: 24.071 min Scan# 3

Delta R.T. 0.023 min

Lab File: BP025370.D

Acq: 12 Aug 2025 17:19

Instrument :

BNA_P

ClientSampleId :

TP-7

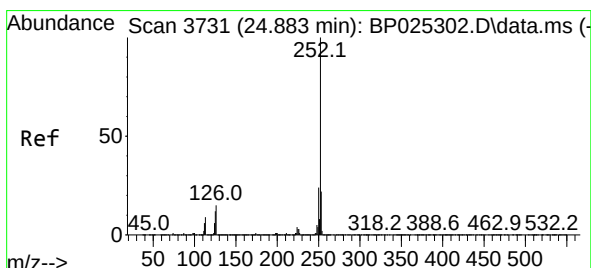
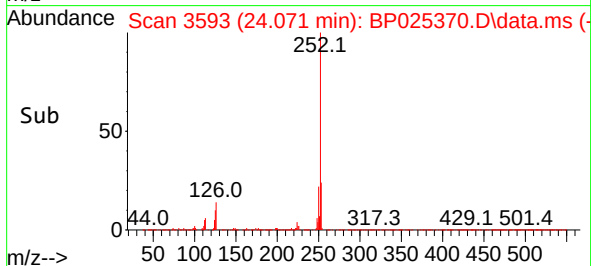
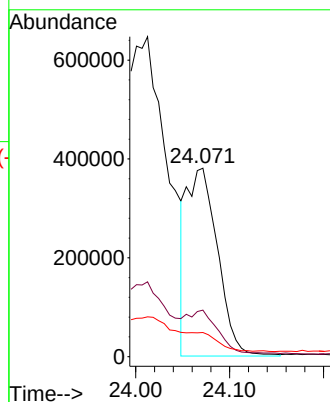
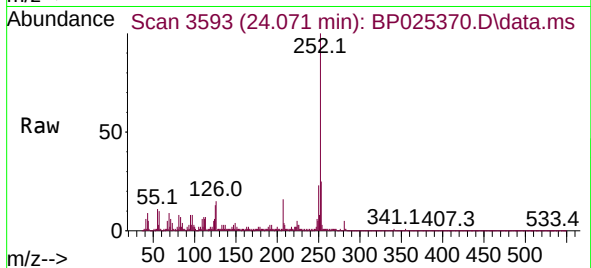
Tgt Ion:	252	Resp:	870364
Ion Ratio	Lower	Upper	
252	100		
253	24.7	17.6	26.4
125	12.9	8.5	12.7

Manual Integrations

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Reviewed By :Rahul Chavli 08/13/2025

Supervised By :Jagrut Upadhyay 08/13/2025



#90

Benzo(a)pyrene

Concen: 26.257 ng

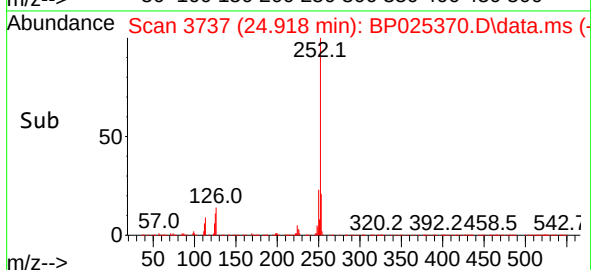
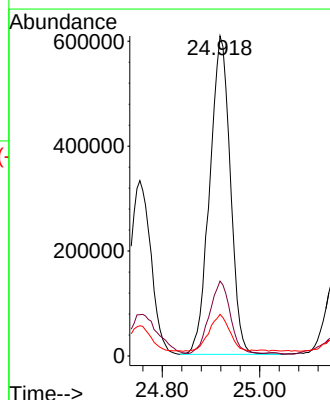
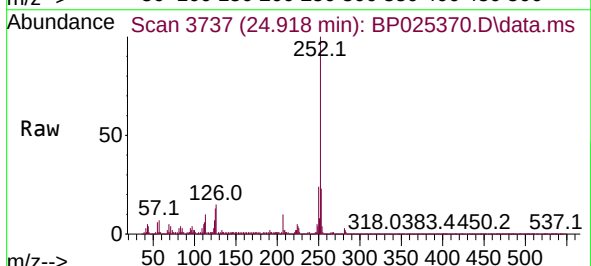
RT: 24.918 min Scan# 3737

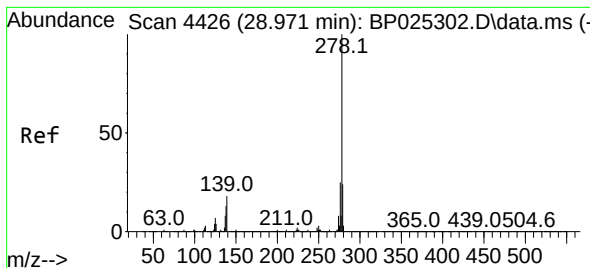
Delta R.T. 0.035 min

Lab File: BP025370.D

Acq: 12 Aug 2025 17:19

Tgt Ion:	252	Resp:	1775406
Ion Ratio	Lower	Upper	
252	100		
253	23.4	17.6	26.4
125	13.0	9.4	14.0





#91

Dibenzo(a,h)anthracene

Concen: 4.509 ng

RT: 29.006 min Scan# 4426

Delta R.T. 0.035 min

Lab File: BP025370.D

Acq: 12 Aug 2025 17:19

Instrument :

BNA_P

ClientSampleId :

TP-7

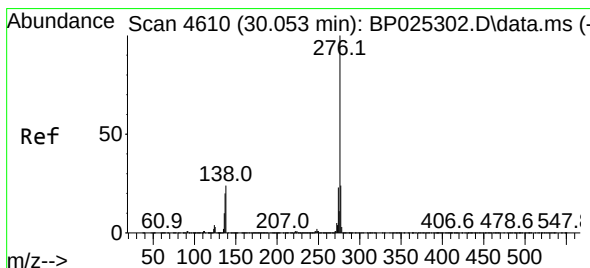
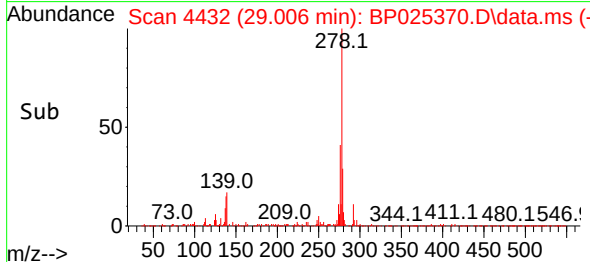
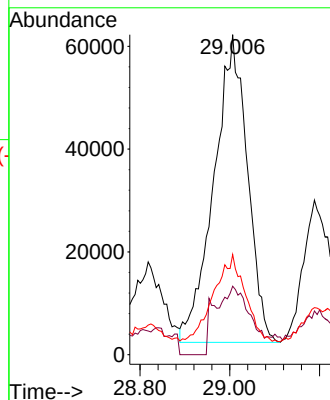
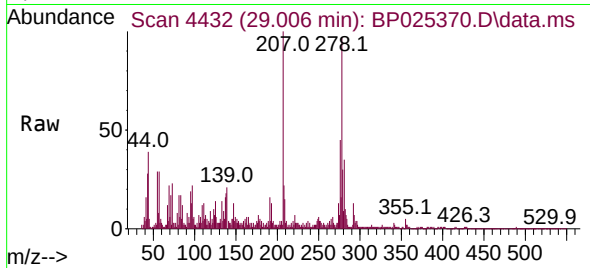
Tgt Ion:	278	Resp:	31045
Ion Ratio	Lower	Upper	
278	100		
139	21.4	14.6	22.0
279	31.3	19.0	28.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/13/2025

Supervised By :Jagrut Upadhyay 08/13/2025



#92

Benzo(g,h,i)perylene

Concen: 12.877 ng

RT: 30.124 min Scan# 4622

Delta R.T. 0.071 min

Lab File: BP025370.D

Acq: 12 Aug 2025 17:19

Tgt Ion:	276	Resp:	870153
Ion Ratio	Lower	Upper	
276	100		
277	23.4	19.3	28.9
138	24.2	19.1	28.7

