

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP091925\
 Data File : BP025807.D
 Acq On : 19 Sep 2025 20:37
 Operator : CG/JU
 Sample : Q3126-01 2X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 OK-01-091725

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 09/22/2025
 Supervised By :Jagrut Upadhyay 09/22/2025

Quant Time: Sep 19 23:31:23 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP091225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 16:45:04 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.749	152	178205	20.000	ng	-0.01
21) Naphthalene-d8	10.519	136	719786	20.000	ng	0.00
39) Acenaphthene-d10	14.366	164	461754	20.000	ng	-0.01
64) Phenanthrene-d10	17.178	188	917004	20.000	ng	0.00
76) Chrysene-d12	21.624	240	861967	20.000	ng	-0.02
86) Perylene-d12	24.977	264	979860	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.396	112	357309	32.352	ng	0.01
7) Phenol-d6	6.966	99	440067	29.978	ng	0.02
23) Nitrobenzene-d5	8.896	82	288165	17.660	ng	0.00
42) 2,4,6-Tribromophenol	15.895	330	167178	29.027	ng	-0.01
45) 2-Fluorobiphenyl	12.972	172	692128	19.958	ng	-0.02
79) Terphenyl-d14	19.895	244	1013704	21.157	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	10.566	128	261759	6.744	ng	98
37) 2-Methylnaphthalene	12.178	142	124685	5.002	ng	96
38) 1-Methylnaphthalene	12.395	142	117319	4.413	ng	99
49) Acenaphthylene	14.084	152	652884	14.765	ng	100
52) Acenaphthene	14.431	154	163559	6.414	ng	98
55) Dibenzofuran	14.772	168	237614	5.717	ng	97
58) Fluorene	15.431	166	382278	11.567	ng	98
71) Phenanthrene	17.219	178	2877944	55.326	ng	100
72) Anthracene	17.313	178	958524	18.161	ng	100
73) Carbazole	17.601	167	267710	5.456	ng	99
75) Fluoranthene	19.313	202	5179639	83.026	ng	99
78) Pyrene	19.689	202	4863751	84.565	ng	99
81) Benzo(a)anthracene	21.601	228	3226997	54.684	ng	95
83) Chrysene	21.671	228	2948795	52.420	ng	97
87) Indeno(1,2,3-cd)pyrene	28.830	276	2218196	31.129	ng	# 82
88) Benzo(b)fluoranthene	23.918	252	4149144	69.244	ng	99
89) Benzo(k)fluoranthene	23.989	252	1536353m	25.127	ng	
90) Benzo(a)pyrene	24.842	252	3218875	54.855	ng	98
91) Dibenzo(a,h)anthracene	28.871	278	593828	10.184	ng	94
92) Benzo(g,h,i)perylene	30.000	276	2085261	36.363	ng	98

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

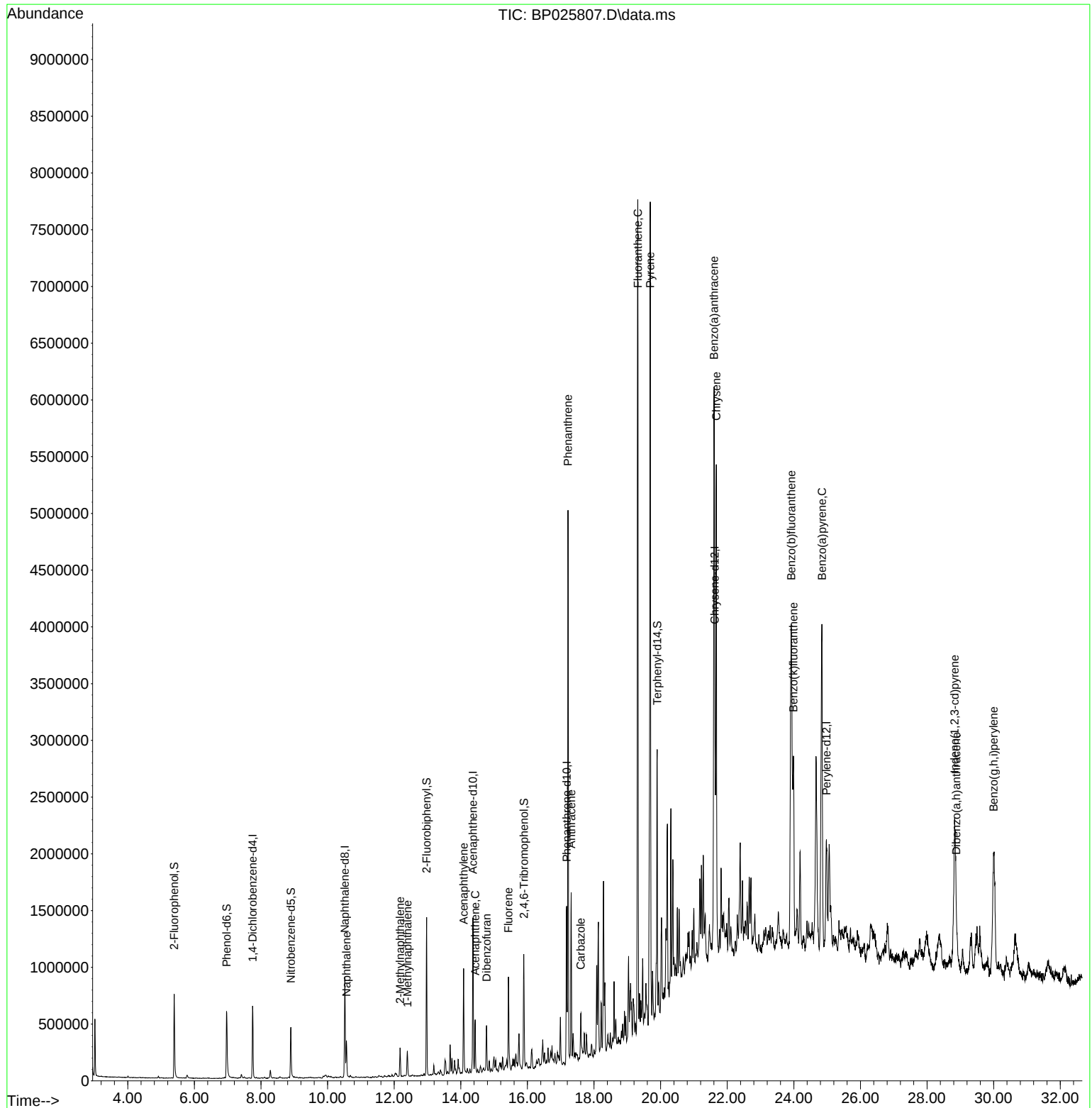
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP091925\
Data File : BP025807.D
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ALS Vial : 17 Sample Multiplier: 1

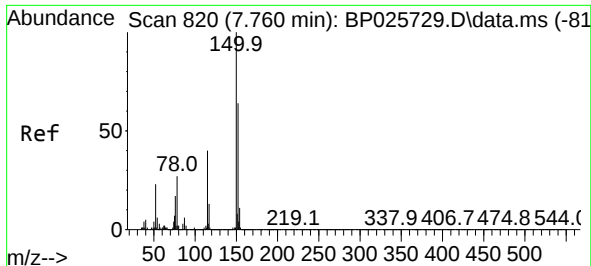
Instrument :
BNA_P
ClientSampleId :
OK-01-091725

Quant Time: Sep 19 23:31:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP091225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 16:45:04 2025
Response via : Initial Calibration

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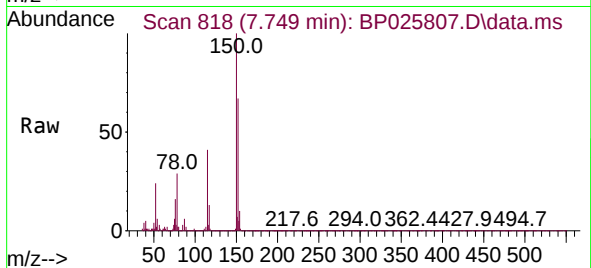
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :Jagrut Upadhyay 09/22/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.749 min Scan# 81
Delta R.T. -0.011 min
Lab File: BP025807.D
Acq: 19 Sep 2025 20:37

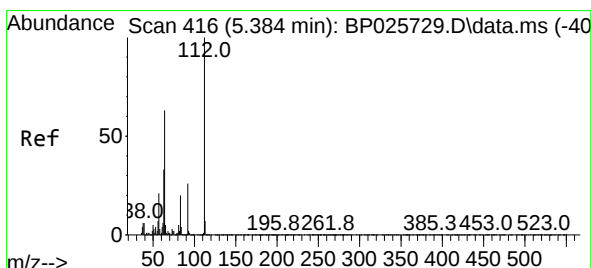
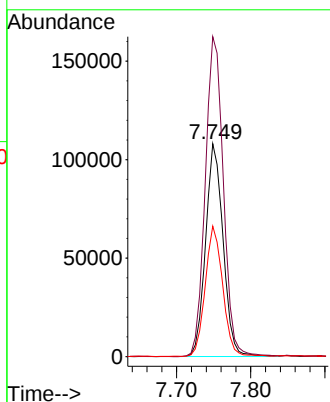
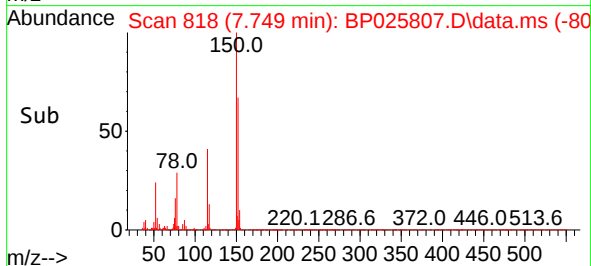
Instrument :
BNA_P
ClientSampleId :
OK-01-091725



Tgt Ion:152 Resp: 178205
Ion Ratio Lower Upper
152 100
150 150.3 124.3 186.5
115 61.3 50.3 75.5

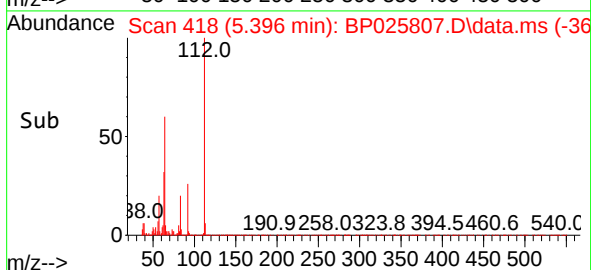
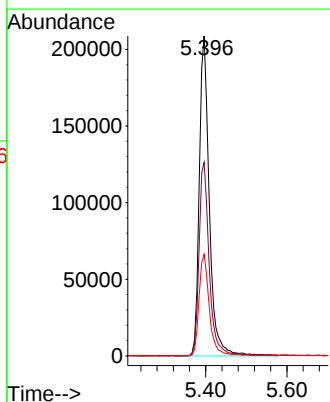
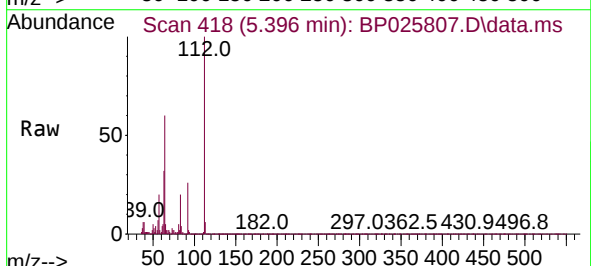
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#5
2-Fluorophenol
Concen: 32.352 ng
RT: 5.396 min Scan# 418
Delta R.T. 0.012 min
Lab File: BP025807.D
Acq: 19 Sep 2025 20:37

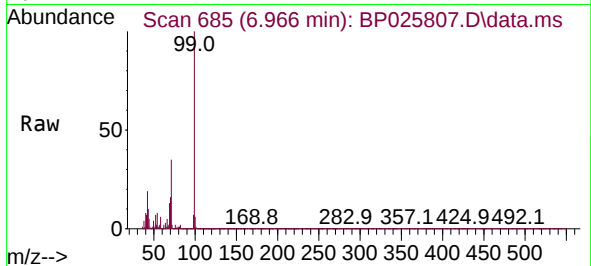
Tgt Ion:112 Resp: 357309
Ion Ratio Lower Upper
112 100
64 60.4 50.2 75.4
63 31.8 26.7 40.1





#7
Phenol-d6
Concen: 29.978 ng
RT: 6.966 min Scan# 685
Delta R.T. 0.018 min
Lab File: BP025807.D
Acq: 19 Sep 2025 20:37

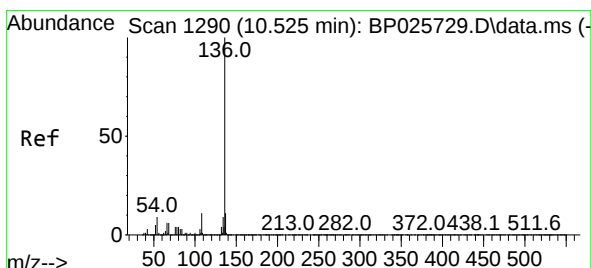
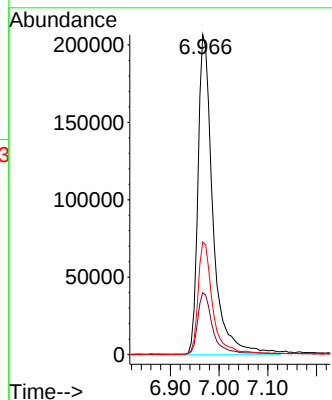
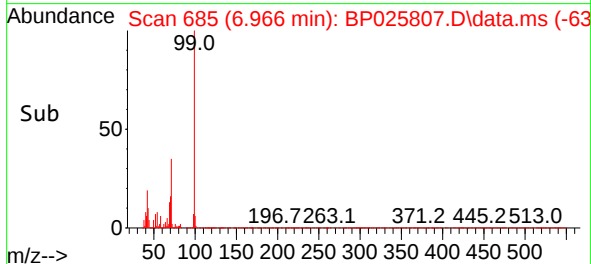
Instrument :
BNA_P
ClientSampleId :
OK-01-091725



Tgt Ion: 99 Resp: 440062
Ion Ratio Lower Upper
99 100
42 19.3 15.6 23.4
71 35.2 28.6 43.0

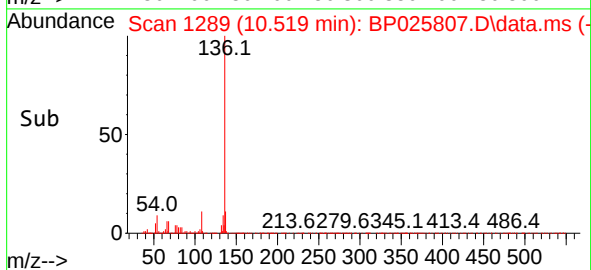
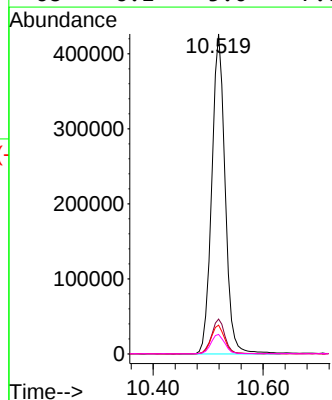
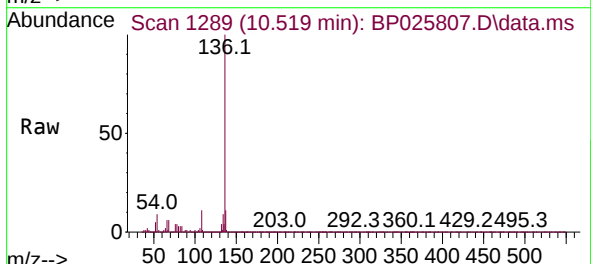
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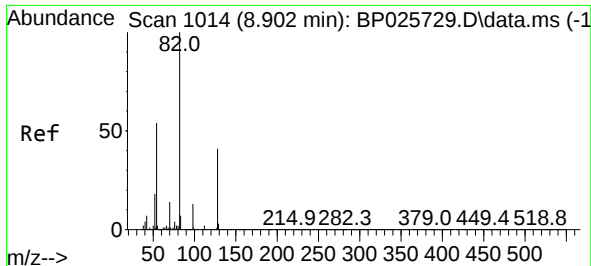
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :Jagrut Upadhyay 09/22/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.519 min Scan# 1289
Delta R.T. -0.006 min
Lab File: BP025807.D
Acq: 19 Sep 2025 20:37

Tgt Ion:136 Resp: 719786
Ion Ratio Lower Upper
136 100
137 10.9 8.7 13.1
54 9.0 7.5 11.3
68 6.1 5.0 7.6





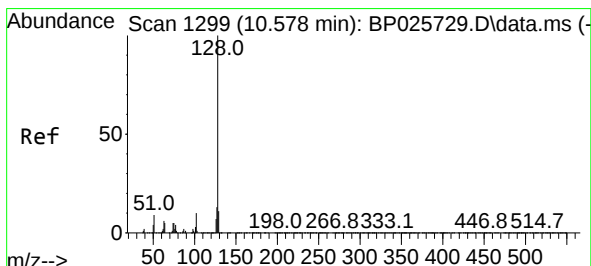
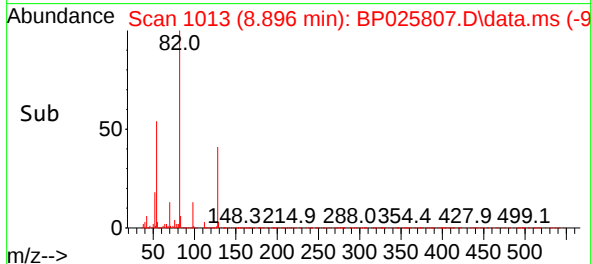
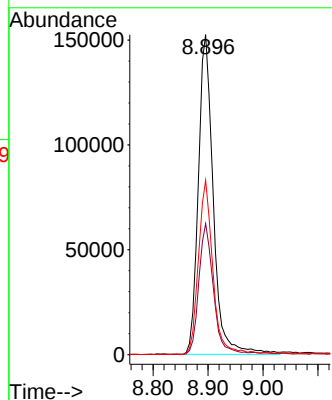
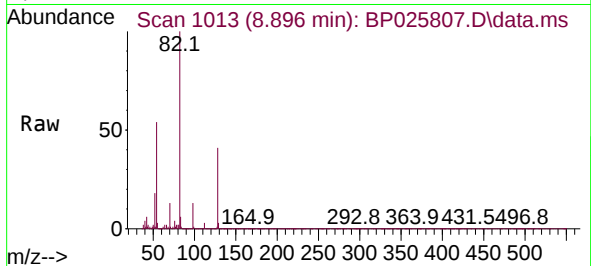
#23
Nitrobenzene-d5
Concen: 17.660 ng
RT: 8.896 min Scan# 1014
Delta R.T. -0.006 min
Lab File: BP025807.D
Acq: 19 Sep 2025 20:37

Instrument :
BNA_P
ClientSampleId :
OK-01-091725

Tgt Ion: 82 Resp: 288165
Ion Ratio Lower Upper
82 100
128 40.9 32.9 49.3
54 54.5 43.4 65.2

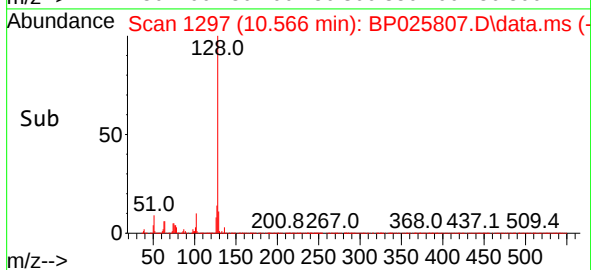
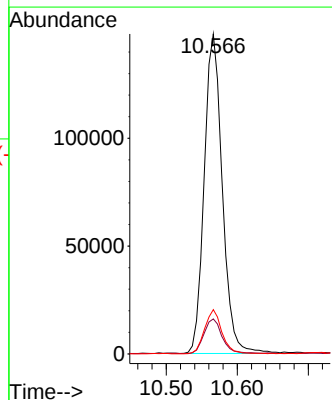
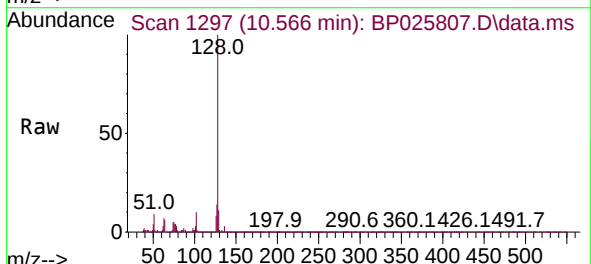
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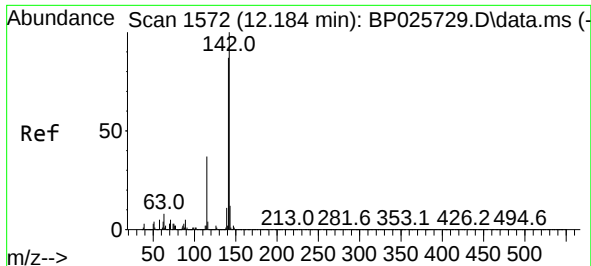
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :Jagrut Upadhyay 09/22/2025



#31
Naphthalene
Concen: 6.744 ng
RT: 10.566 min Scan# 1297
Delta R.T. -0.012 min
Lab File: BP025807.D
Acq: 19 Sep 2025 20:37

Tgt Ion:128 Resp: 261759
Ion Ratio Lower Upper
128 100
129 10.9 8.6 12.8
127 13.9 10.2 15.4





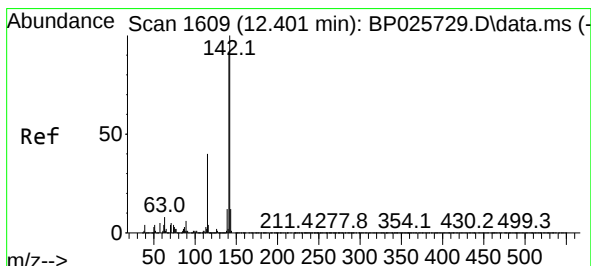
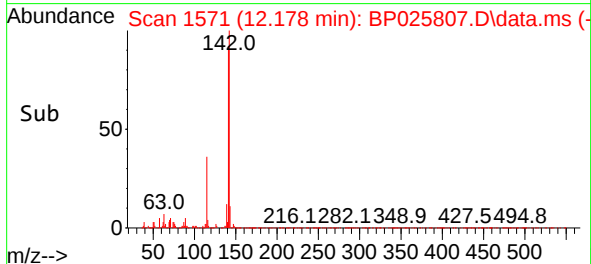
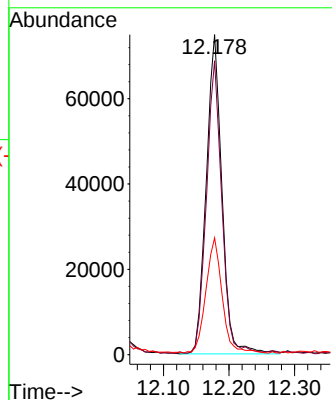
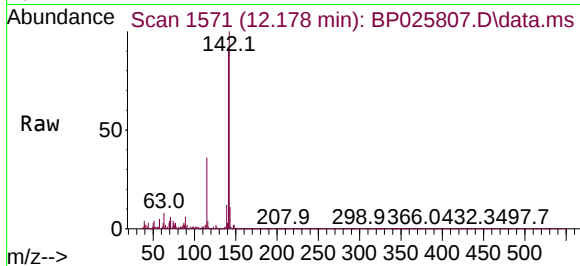
#37
2-Methylnaphthalene
Concen: 5.002 ng
RT: 12.178 min Scan# 1571
Delta R.T. -0.006 min
Lab File: BP025807.D
Acq: 19 Sep 2025 20:37

Instrument :
BNA_P
ClientSampleId :
OK-01-091725

Tgt Ion:142 Resp: 124685
Ion Ratio Lower Upper
142 100
141 91.8 69.6 104.4
115 36.5 30.0 45.0

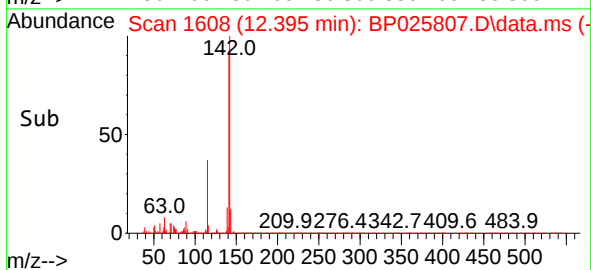
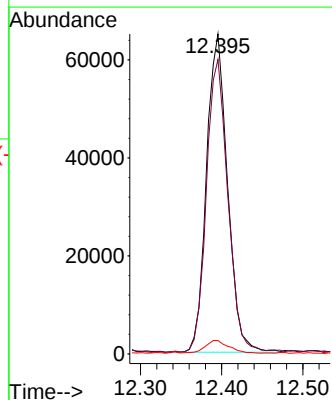
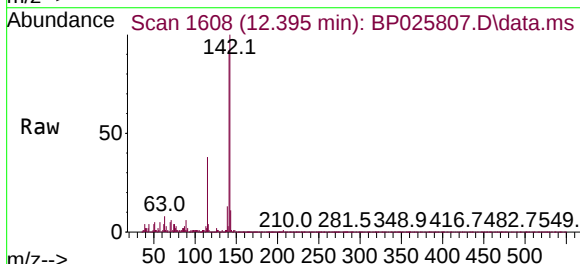
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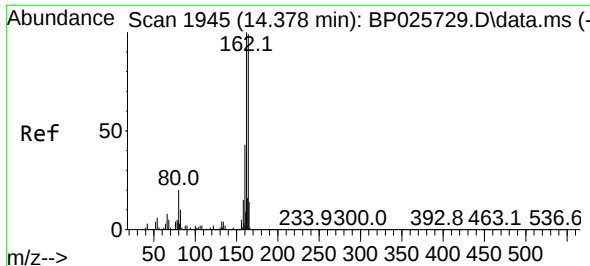
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :Jagrut Upadhyay 09/22/2025



#38
1-Methylnaphthalene
Concen: 4.413 ng
RT: 12.395 min Scan# 1608
Delta R.T. -0.006 min
Lab File: BP025807.D
Acq: 19 Sep 2025 20:37

Tgt Ion:142 Resp: 117319
Ion Ratio Lower Upper
142 100
141 92.0 72.7 109.1
116 4.2 3.5 5.3





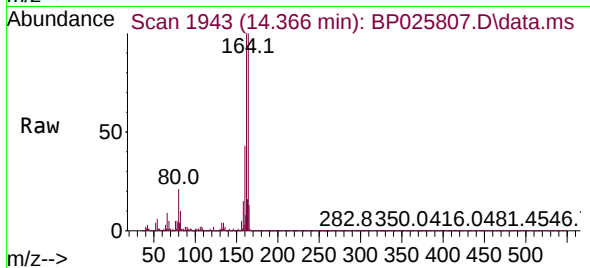
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Acenaphthene-d10
Concen: 20.000 ng
RT: 14.366 min Scan# 1945
Delta R.T. -0.012 min
Lab File: BP025807.D
Acq: 19 Sep 2025 20:37

Instrument :

BNA_P

ClientSampleId :

OK-01-091725



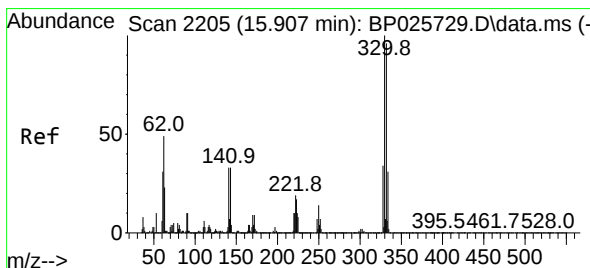
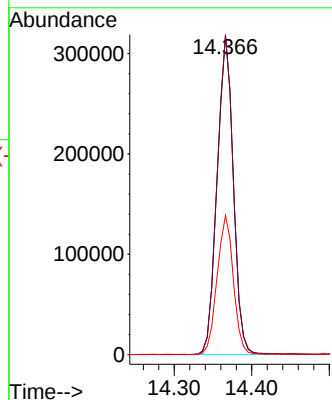
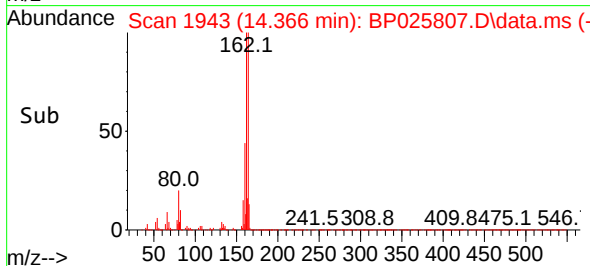
Tgt Ion:164 Resp: 461754
Ion Ratio Lower Upper
164 100
162 100.2 80.6 120.8
160 43.6 35.0 52.6

Manual Integrations

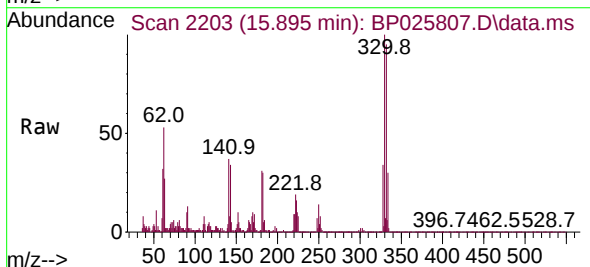
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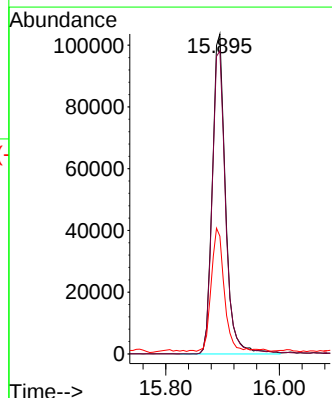
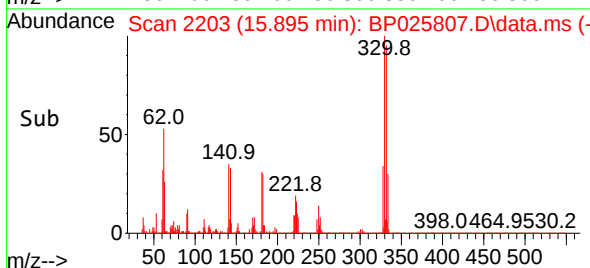
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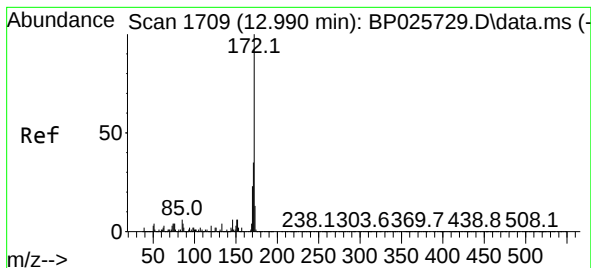


#42
2,4,6-Tribromophenol
Concen: 29.027 ng
RT: 15.895 min Scan# 2203
Delta R.T. -0.012 min
Lab File: BP025807.D
Acq: 19 Sep 2025 20:37



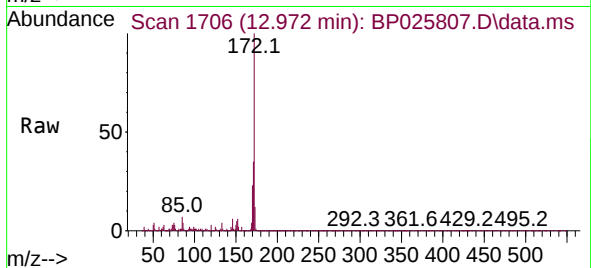
Tgt Ion:330 Resp: 167178
Ion Ratio Lower Upper
330 100
332 97.4 76.9 115.3
141 38.0 31.0 46.4





#45
2-Fluorobiphenyl
Concen: 19.958 ng
RT: 12.972 min Scan# 1706
Delta R.T. -0.018 min
Lab File: BP025807.D
Acq: 19 Sep 2025 20:37

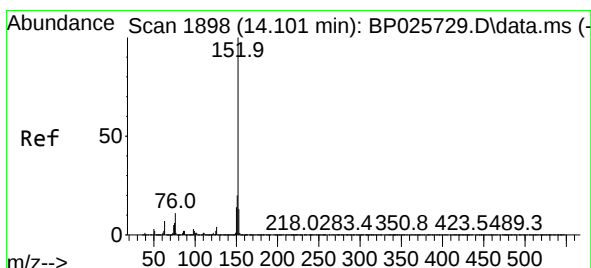
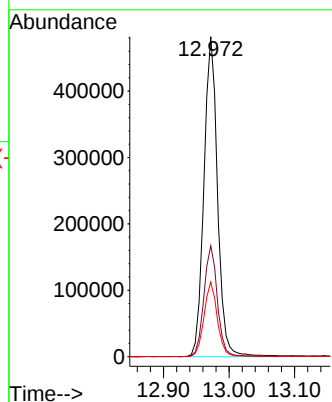
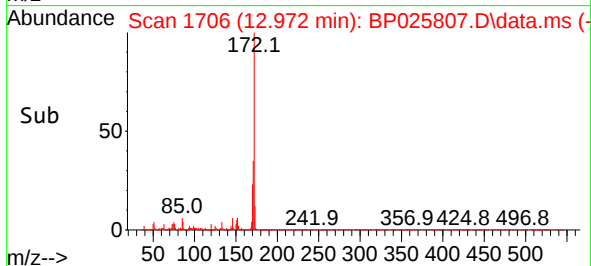
Instrument :
BNA_P
ClientSampleId :
OK-01-091725



Tgt Ion:172 Resp: 692128
Ion Ratio Lower Upper
172 100
171 34.6 27.8 41.6
170 23.3 18.6 27.8

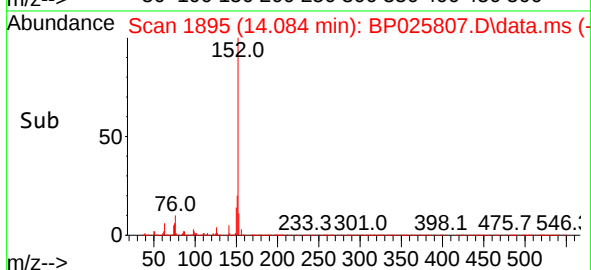
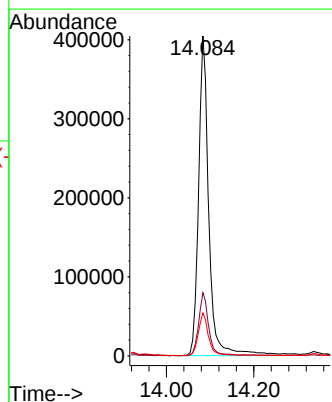
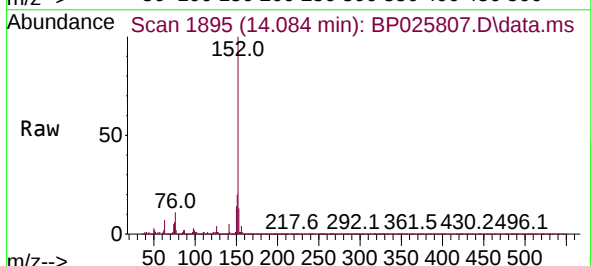
Manual Integrations
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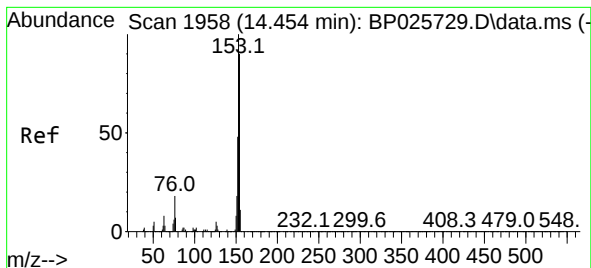
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :Jagrut Upadhyay 09/22/2025



#49
Acenaphthylene
Concen: 14.765 ng
RT: 14.084 min Scan# 1895
Delta R.T. -0.018 min
Lab File: BP025807.D
Acq: 19 Sep 2025 20:37

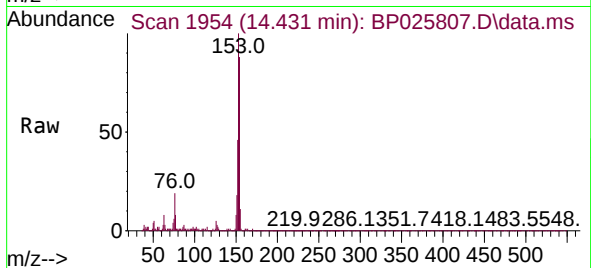
Tgt Ion:152 Resp: 652884
Ion Ratio Lower Upper
152 100
151 19.7 15.8 23.6
153 13.4 10.5 15.7





#52
Acenaphthene
Concen: 6.414 ng
RT: 14.431 min Scan# 1958
Delta R.T. -0.024 min
Lab File: BP025807.D
Acq: 19 Sep 2025 20:37

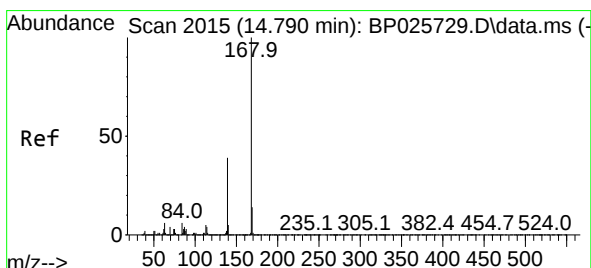
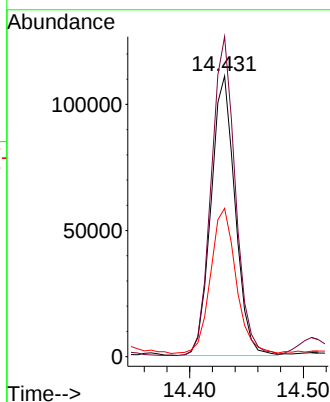
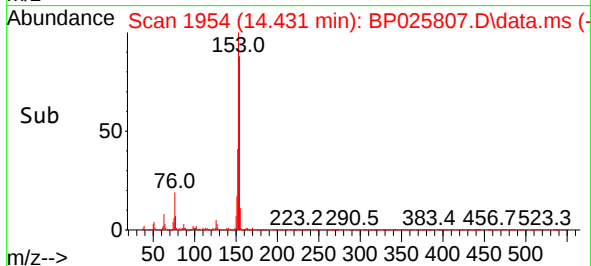
Instrument :
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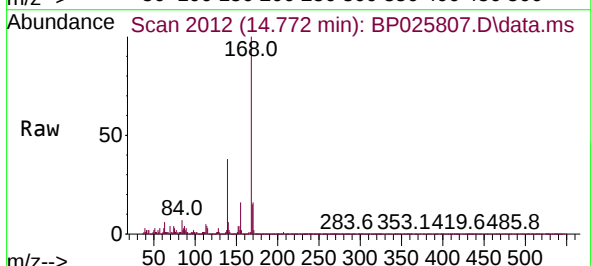
Tgt Ion:154 Resp: 163559
Ion Ratio Lower Upper
154 100
153 114.0 89.4 134.0
152 52.8 42.5 63.7

Manual Integrations
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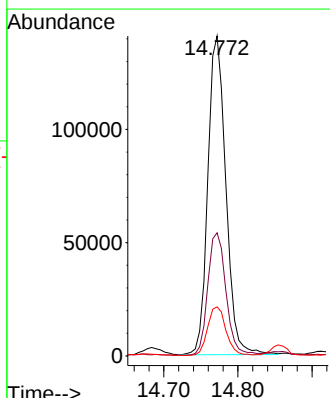
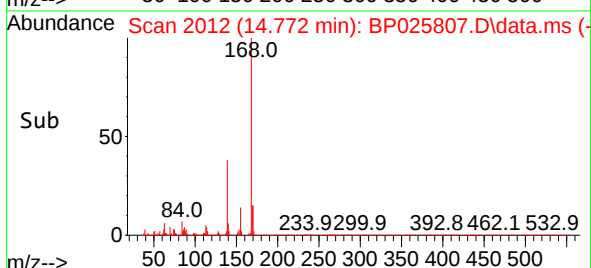
Reviewed By :Rahul Chavli 09/22/2025
Supervised By :Jagrut Upadhyay 09/22/2025

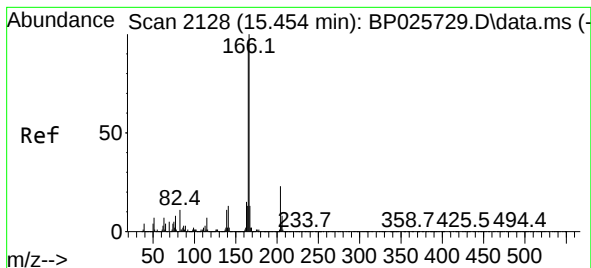


#55
Dibenzofuran
Concen: 5.717 ng
RT: 14.772 min Scan# 2012
Delta R.T. -0.018 min
Lab File: BP025807.D
Acq: 19 Sep 2025 20:37



Tgt Ion:168 Resp: 237614
Ion Ratio Lower Upper
168 100
139 38.5 31.7 47.5
169 15.3 10.8 16.2





#58

Fluorene

Concen: 11.567 ng

RT: 15.431 min Scan# 2124

Delta R.T. -0.024 min

Lab File: BP025807.D

Acq: 19 Sep 2025 20:37

Instrument :

BNA_P

ClientSampleId :

OK-01-091725

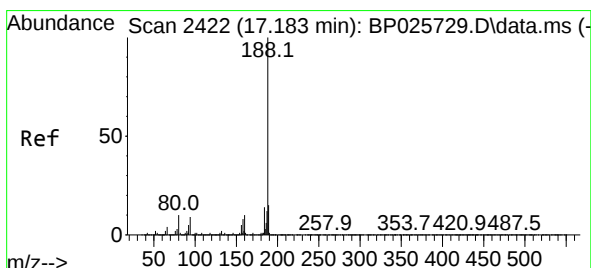
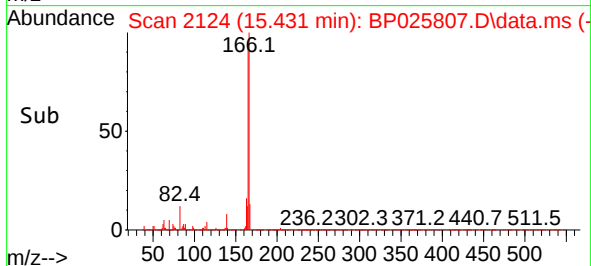
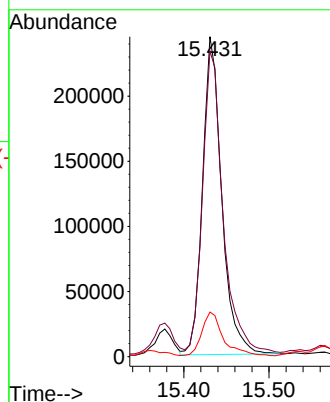
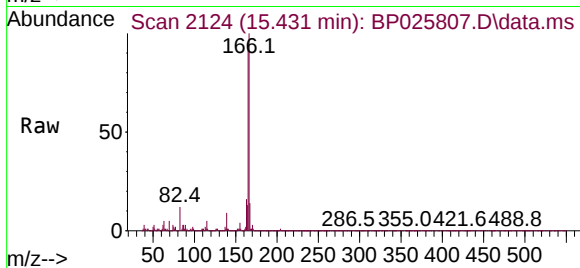
Tgt Ion:166	Resp: 382278
Ion Ratio	Lower Upper
166	100
165	95.5 77.7 116.5
167	13.9 10.6 16.0

Manual Integrations

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Supervised By :Jagrut Upadhyay 09/22/2025



#64

Phenanthrene-d10

Concen: 20.000 ng

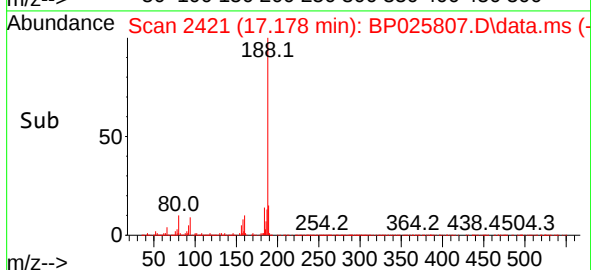
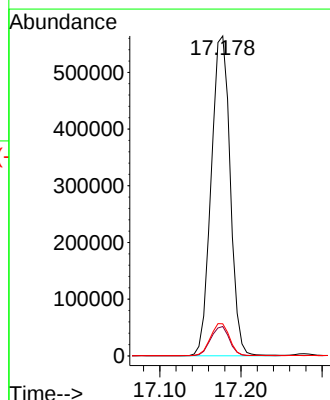
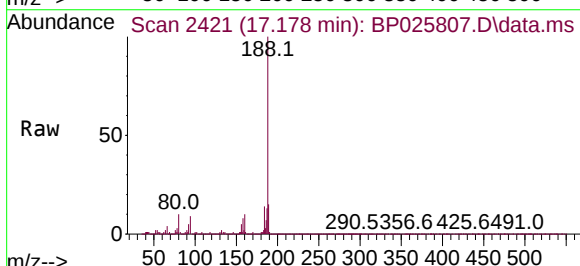
RT: 17.178 min Scan# 2421

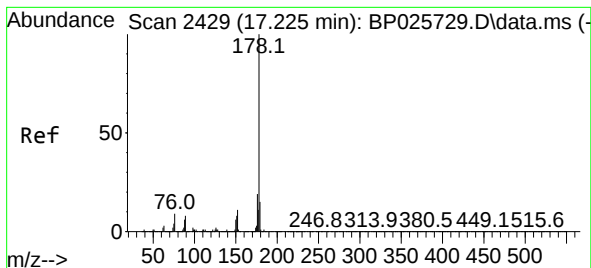
Delta R.T. -0.006 min

Lab File: BP025807.D

Acq: 19 Sep 2025 20:37

Tgt Ion:188	Resp: 917004
Ion Ratio	Lower Upper
188	100
94	9.2 7.4 11.0
80	10.0 7.7 11.5





#71

Phenanthrene

Concen: 55.326 ng

RT: 17.219 min Scan# 2429

Delta R.T. -0.006 min

Lab File: BP025807.D

Acq: 19 Sep 2025 20:37

Instrument :

BNA_P

ClientSampleId :

OK-01-091725

Tgt Ion:178 Resp: 2877944

Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.2

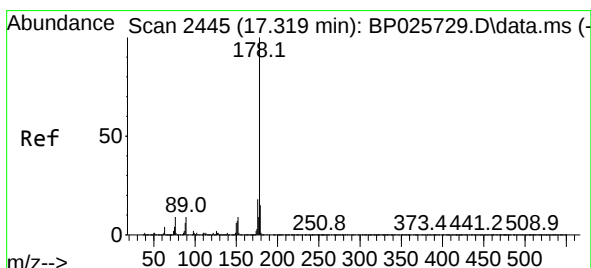
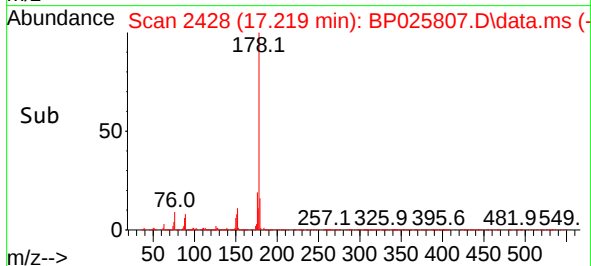
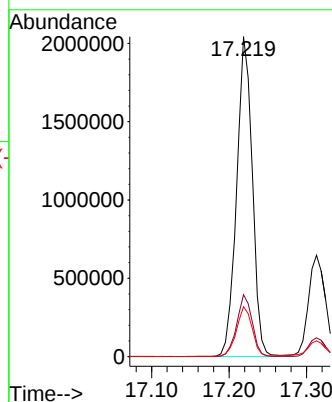
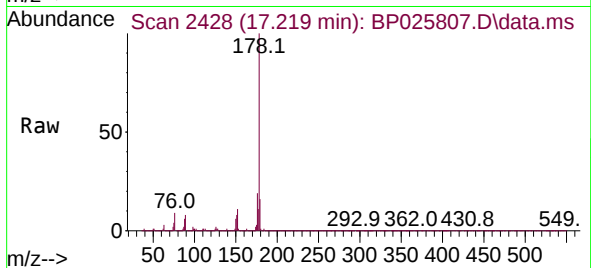
179 15.6 12.2 18.4

Manual Integrations

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Reviewed By :Rahul Chavli 09/22/2025

Supervised By :Jagrut Upadhyay 09/22/2025



#72

Anthracene

Concen: 18.161 ng

RT: 17.313 min Scan# 2444

Delta R.T. -0.006 min

Lab File: BP025807.D

Acq: 19 Sep 2025 20:37

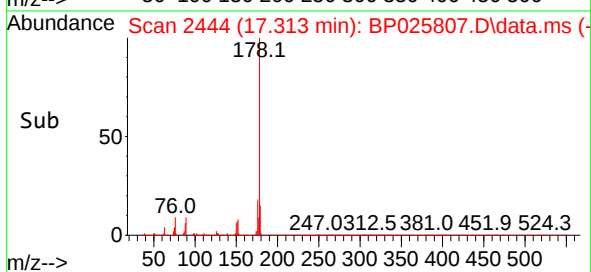
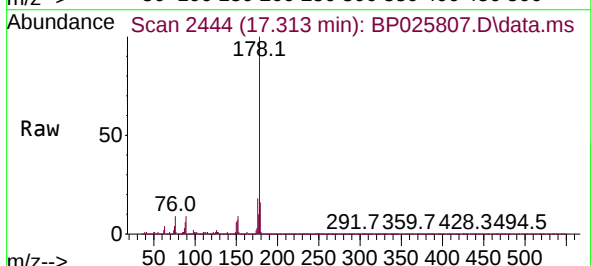
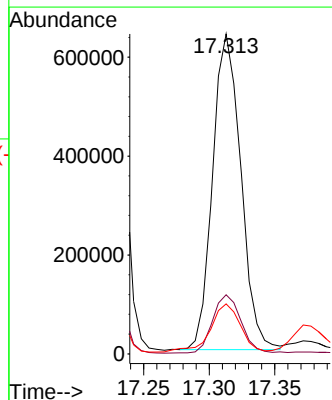
Tgt Ion:178 Resp: 958524

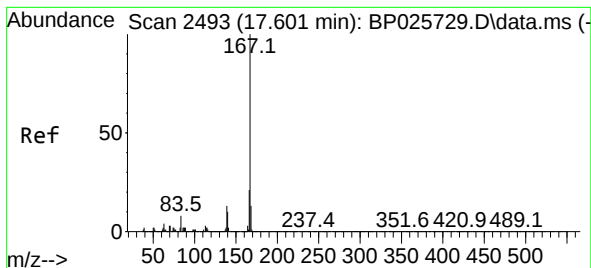
Ion Ratio Lower Upper

178 100

176 18.5 14.8 22.2

179 15.6 12.2 18.4





#73

Carbazole

Concen: 5.456 ng

RT: 17.601 min Scan# 2493

Delta R.T. -0.000 min

Lab File: BP025807.D

Acq: 19 Sep 2025 20:37

Instrument :

BNA_P

ClientSampleId :

OK-01-091725

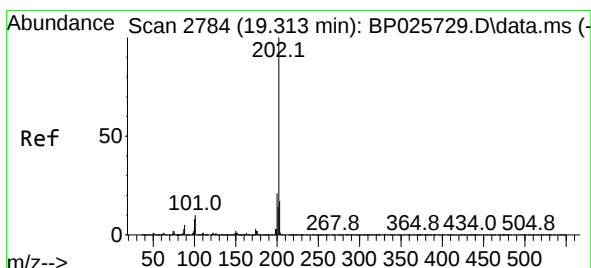
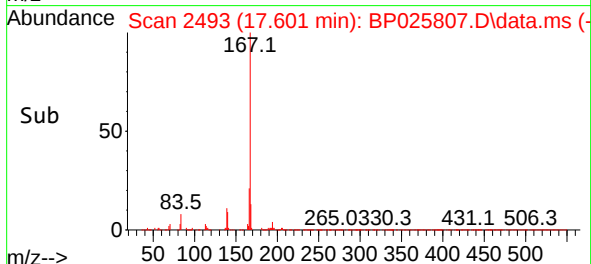
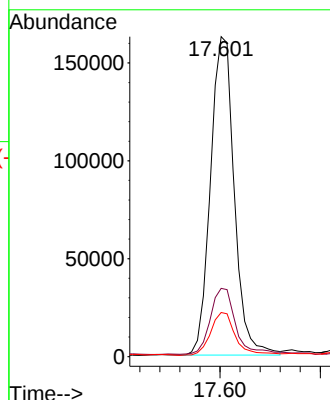
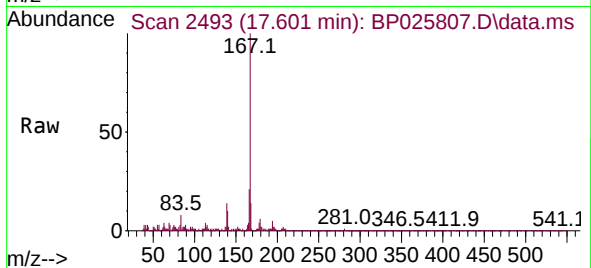
Tgt Ion:	167	Resp:	267710
Ion Ratio	Lower	Upper	
167	100		
166	21.3	17.0	25.4
139	13.8	10.6	16.0

Manual Integrations

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Supervised By :Jagrut Upadhyay 09/22/2025



#75

Fluoranthene

Concen: 83.026 ng

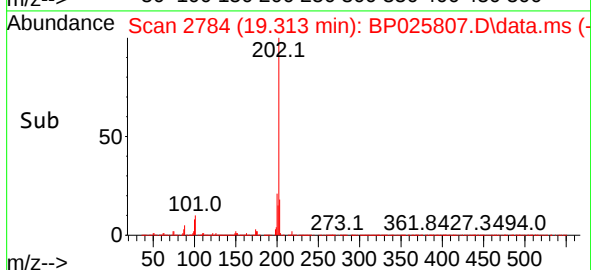
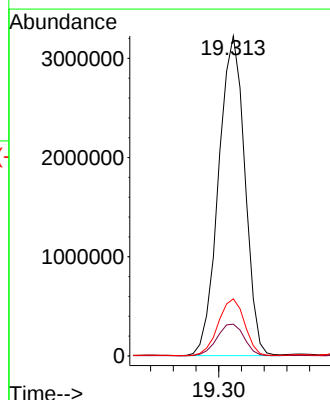
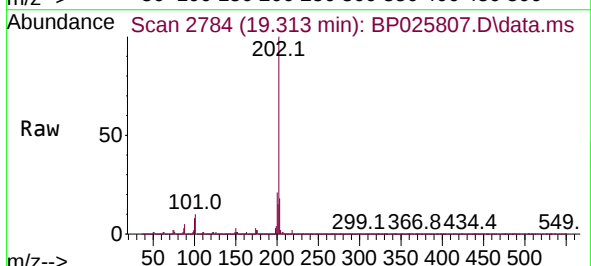
RT: 19.313 min Scan# 2784

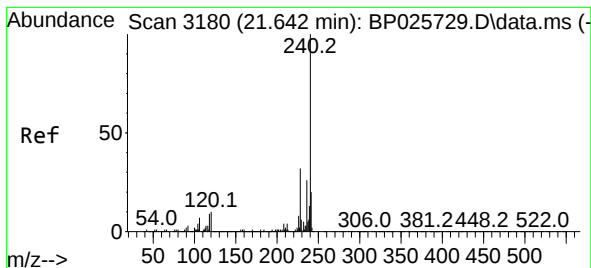
Delta R.T. -0.000 min

Lab File: BP025807.D

Acq: 19 Sep 2025 20:37

Tgt Ion:	202	Resp:	5179639
Ion Ratio	Lower	Upper	
202	100		
101	9.9	0.0	30.4
203	17.8	0.0	37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.624 min Scan# 31

Delta R.T. -0.018 min

Lab File: BP025807.D

Acq: 19 Sep 2025 20:37

Instrument :

BNA_P

ClientSampleId :

OK-01-091725

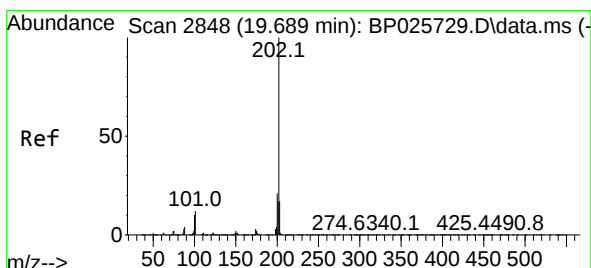
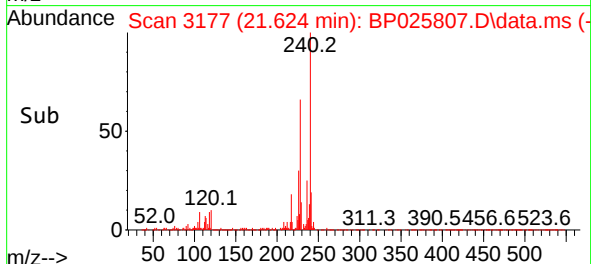
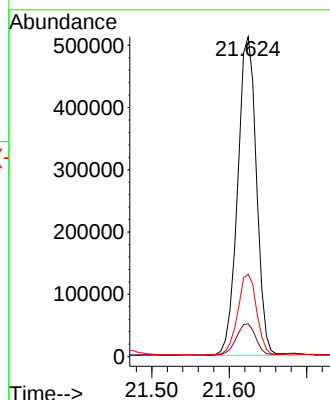
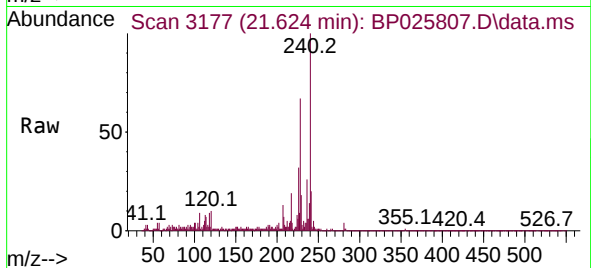
Tgt Ion:240 Resp: 861962
 Ion Ratio Lower Upper
 240 100
 120 10.2 8.0 12.0
 236 25.7 20.7 31.1

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Supervised By :Jagrut Upadhyay 09/22/2025



#78

Pyrene

Concen: 84.565 ng

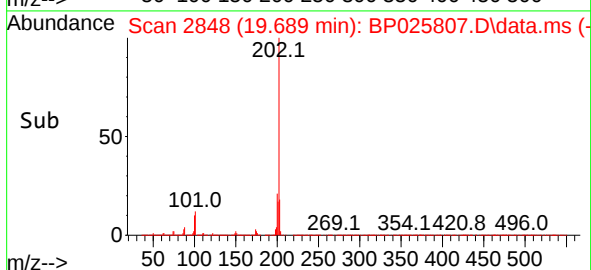
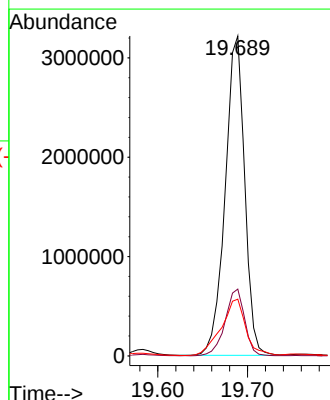
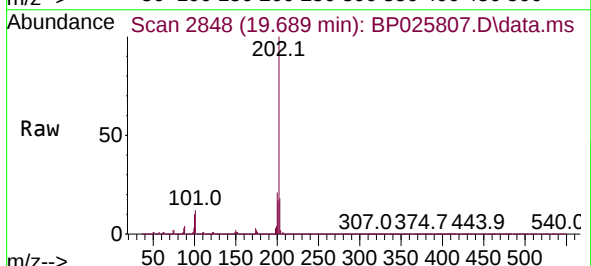
RT: 19.689 min Scan# 2848

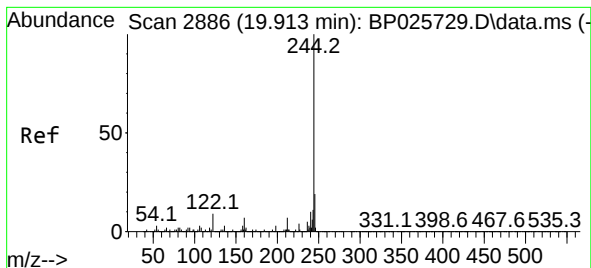
Delta R.T. -0.000 min

Lab File: BP025807.D

Acq: 19 Sep 2025 20:37

Tgt Ion:202 Resp: 4863751
 Ion Ratio Lower Upper
 202 100
 200 20.9 17.0 25.6
 203 17.7 13.9 20.9





#79

Terphenyl-d14

Concen: 21.157 ng

RT: 19.895 min Scan# 2883

Delta R.T. -0.018 min

Lab File: BP025807.D

Acq: 19 Sep 2025 20:37

Instrument :

BNA_P

ClientSampleId :

OK-01-091725

Tgt Ion:244 Resp: 1013704

Ion Ratio Lower Upper

244 100

212 7.5 5.9 8.9

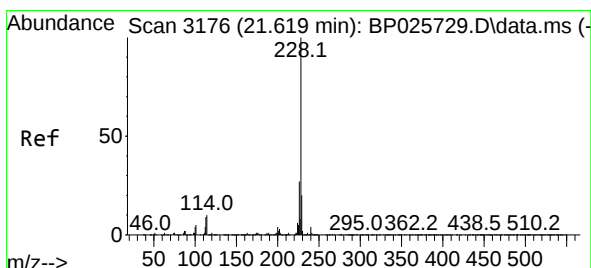
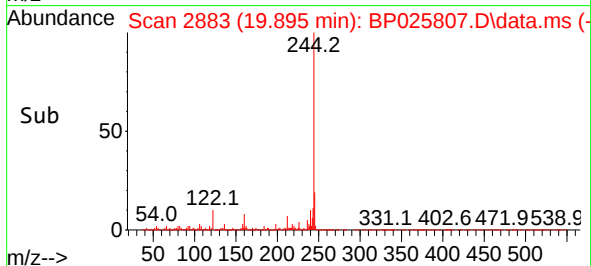
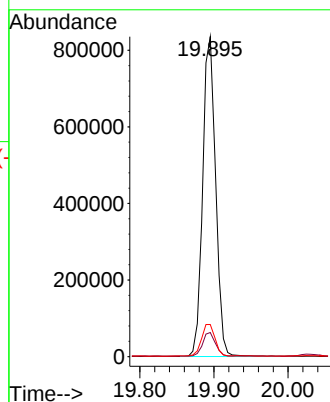
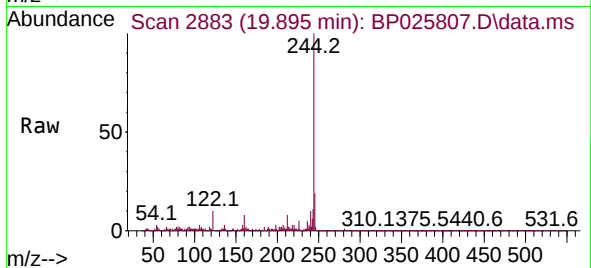
122 10.0 7.1 10.7

Manual Integrations

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Supervised By :Jagrut Upadhyay 09/22/2025



#81

Benzo(a)anthracene

Concen: 54.684 ng

RT: 21.601 min Scan# 3173

Delta R.T. -0.018 min

Lab File: BP025807.D

Acq: 19 Sep 2025 20:37

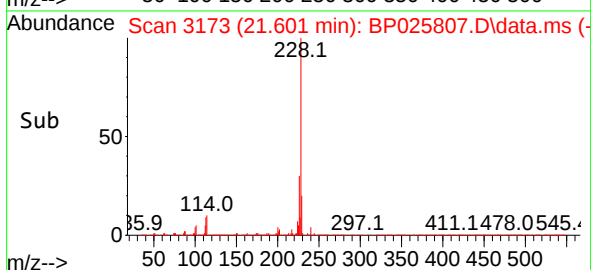
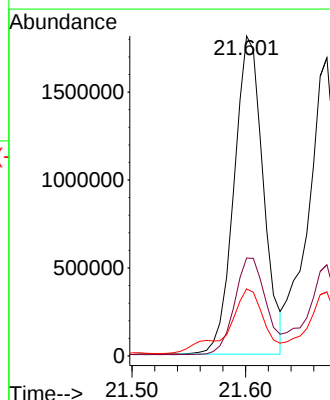
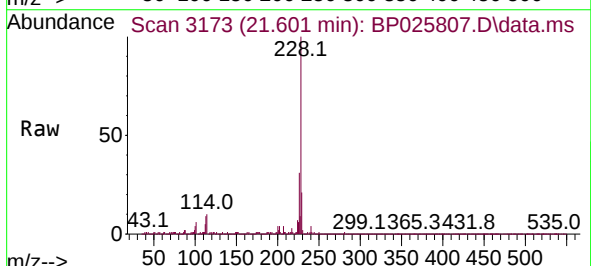
Tgt Ion:228 Resp: 3226997

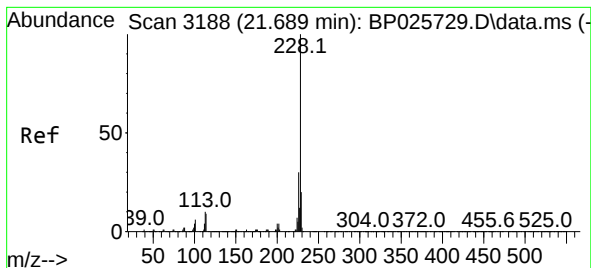
Ion Ratio Lower Upper

228 100

226 30.6 21.6 32.4

229 20.9 15.7 23.5





#83

Chrysene

Concen: 52.420 ng

RT: 21.671 min Scan# 31

Delta R.T. -0.018 min

Lab File: BP025807.D

Acq: 19 Sep 2025 20:37

Instrument :

BNA_P

ClientSampleId :

OK-01-091725

Tgt Ion:228 Resp: 2948795

Ion Ratio Lower Upper

228 100

226 30.5 23.8 35.6

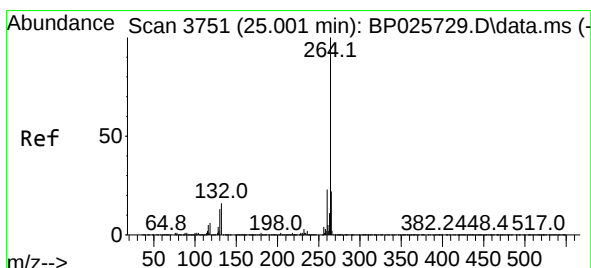
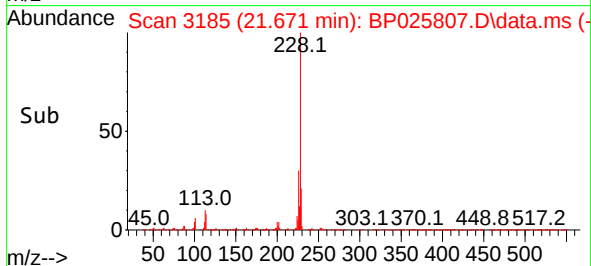
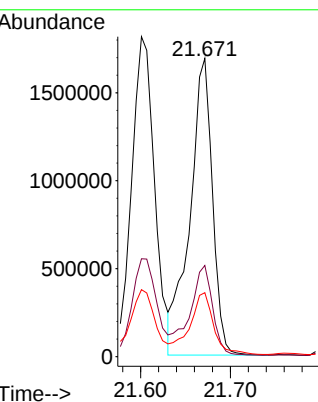
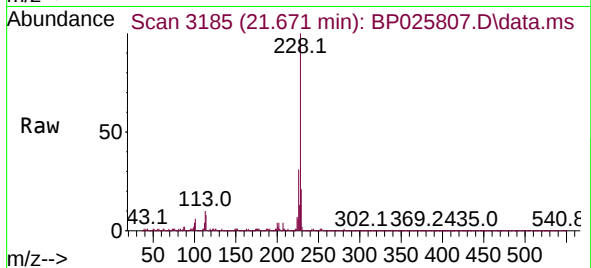
229 21.4 15.6 23.4

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Supervised By :Jagrut Upadhyay 09/22/2025



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.977 min Scan# 3747

Delta R.T. -0.024 min

Lab File: BP025807.D

Acq: 19 Sep 2025 20:37

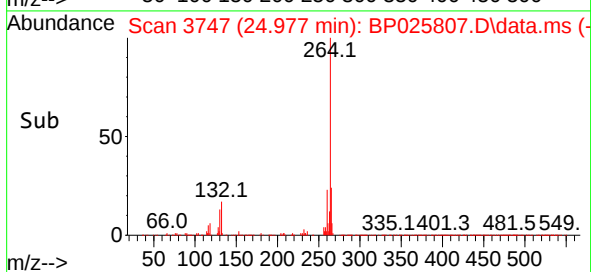
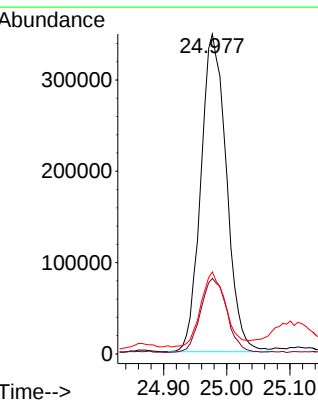
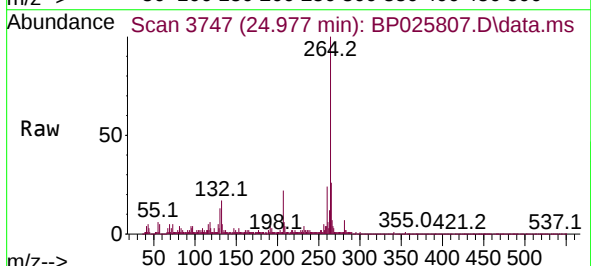
Tgt Ion:264 Resp: 979860

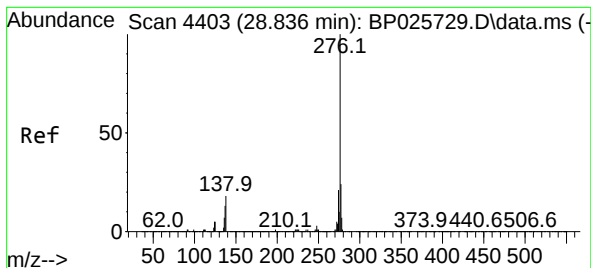
Ion Ratio Lower Upper

264 100

260 23.6 18.3 27.5

265 25.6 17.3 25.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 31.129 ng

RT: 28.830 min Scan# 4403

Delta R.T. -0.006 min

Lab File: BP025807.D

Acq: 19 Sep 2025 20:37

Instrument :

BNA_P

ClientSampleId :

OK-01-091725

Tgt Ion:276 Resp: 2218196

Ion Ratio Lower Upper

276 100

138 19.6 13.4 20.2

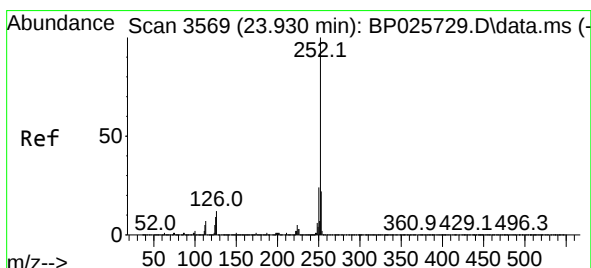
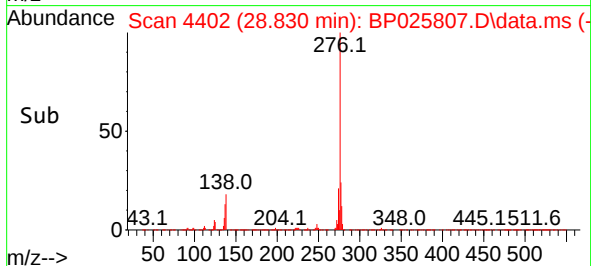
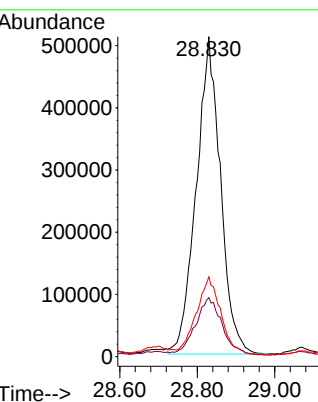
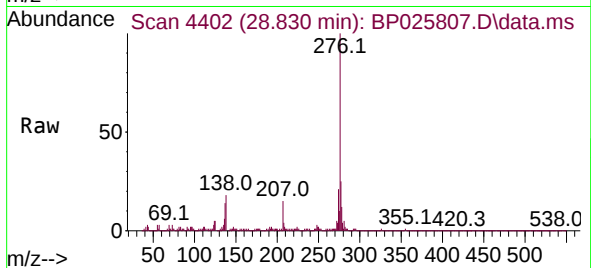
277 25.0 9.1 13.7

Manual Integrations

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Reviewed By :Rahul Chavli 09/22/2025

Supervised By :Jagrut Upadhyay 09/22/2025



#88

Benzo(b)fluoranthene

Concen: 69.244 ng

RT: 23.918 min Scan# 3567

Delta R.T. -0.012 min

Lab File: BP025807.D

Acq: 19 Sep 2025 20:37

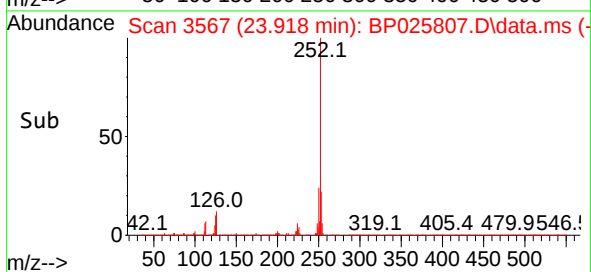
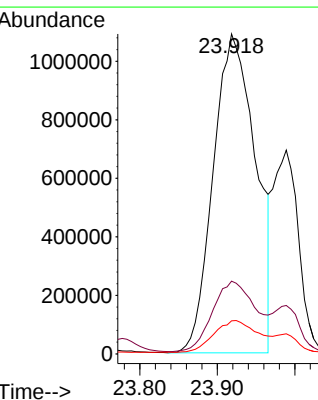
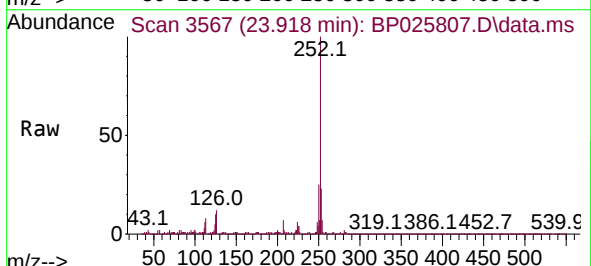
Tgt Ion:252 Resp: 4149144

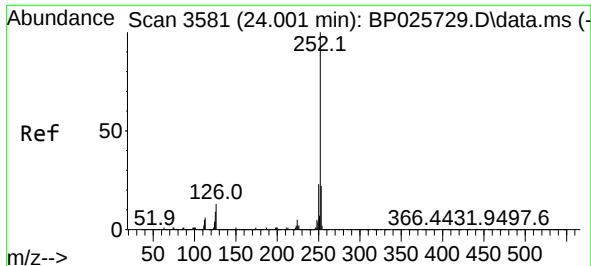
Ion Ratio Lower Upper

252 100

253 22.7 17.9 26.9

125 10.3 7.3 10.9





#89

Benzo(k)fluoranthene

Concen: 25.127 ng m

RT: 23.989 min Scan# 3581

Delta R.T. -0.012 min

Lab File: BP025807.D

Acq: 19 Sep 2025 20:37

Instrument :

BNA_P

ClientSampleId :

OK-01-091725

Tgt Ion:252 Resp: 153635

Ion Ratio Lower Upper

252 100

253 23.8 17.5 26.3

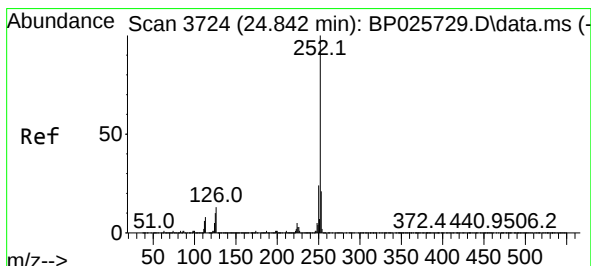
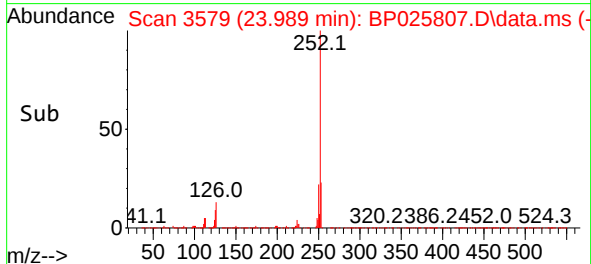
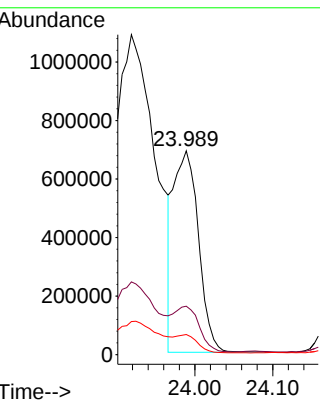
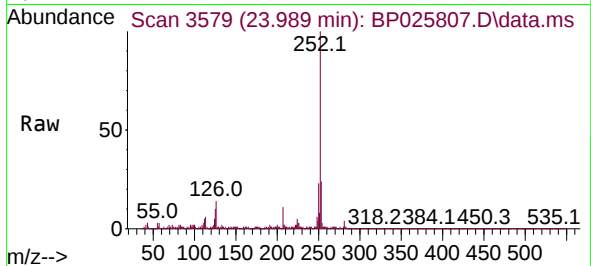
125 9.9 7.5 11.3

Manual Integrations

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Reviewed By :Rahul Chavli 09/22/2025

Supervised By :Jagrut Upadhyay 09/22/2025



#90

Benzo(a)pyrene

Concen: 54.855 ng

RT: 24.842 min Scan# 3724

Delta R.T. -0.000 min

Lab File: BP025807.D

Acq: 19 Sep 2025 20:37

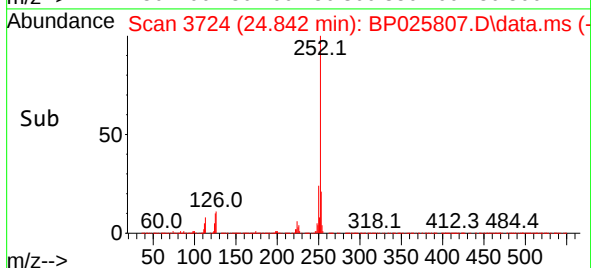
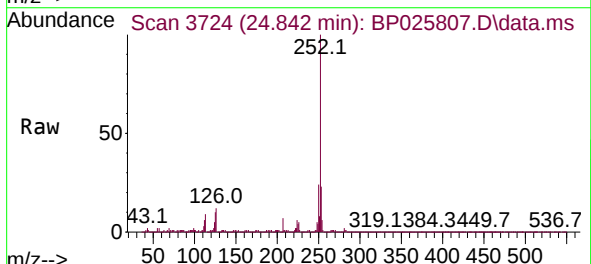
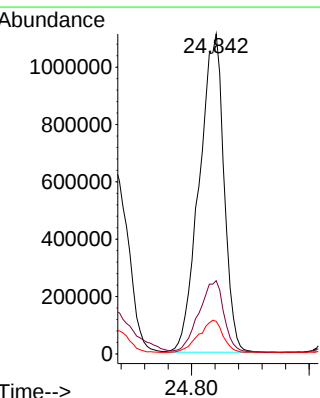
Tgt Ion:252 Resp: 3218875

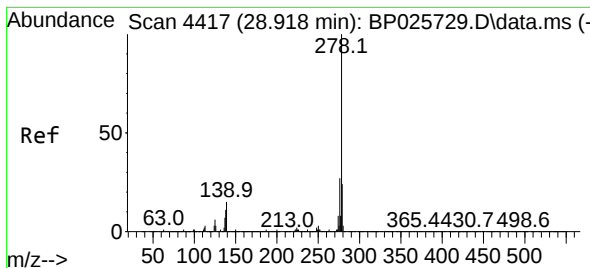
Ion Ratio Lower Upper

252 100

253 22.9 17.2 25.8

125 10.2 8.3 12.5





#91

Dibenzo(a,h)anthracene

Concen: 10.184 ng

RT: 28.871 min Scan# 4417

Delta R.T. -0.047 min

Lab File: BP025807.D

Acq: 19 Sep 2025 20:37

Instrument :

BNA_P

ClientSampleId :

OK-01-091725

Tgt Ion:278 Resp: 593828

Ion Ratio Lower Upper

278 100

139 15.8 12.1 18.1

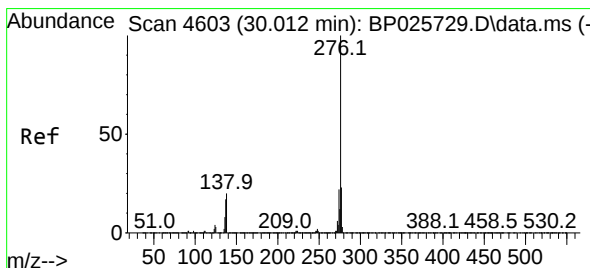
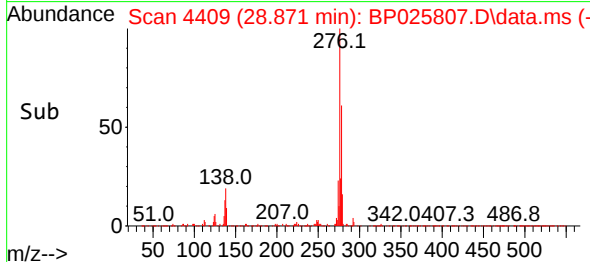
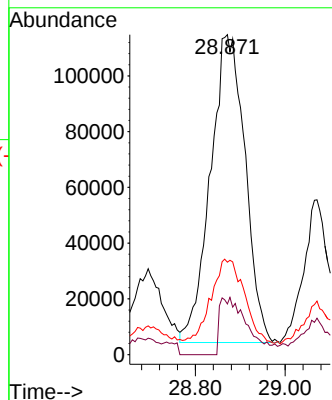
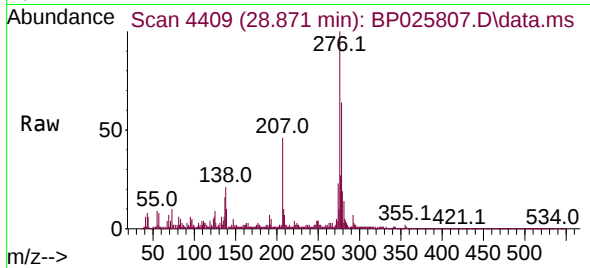
279 28.9 19.6 29.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/22/2025

Supervised By :Jagrut Upadhyay 09/22/2025



#92

Benzo(g,h,i)perylene

Concen: 36.363 ng

RT: 30.000 min Scan# 4601

Delta R.T. -0.012 min

Lab File: BP025807.D

Acq: 19 Sep 2025 20:37

Tgt Ion:276 Resp: 2085261

Ion Ratio Lower Upper

276 100

277 24.5 18.7 28.1

138 20.7 16.0 24.0

