

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP121125\
 Data File : BP026303.D
 Acq On : 11 Dec 2025 22:03
 Operator : RC/JU
 Sample : Q3831-01
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 PL-01-12102025

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 12/12/2025
 Supervised By :Jagrut Upadhyay 12/12/2025

Quant Time: Dec 11 23:43:49 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP111825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 05 14:52:44 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.643	152	238130	20.000	ng	-0.01
21) Naphthalene-d8	10.413	136	899526	20.000	ng	0.00
39) Acenaphthene-d10	14.284	164	558157	20.000	ng	0.00
64) Phenanthrene-d10	17.095	188	1123330	20.000	ng	0.00
76) Chrysene-d12	21.530	240	1290051	20.000	ng	0.00
86) Perylene-d12	24.824	264	1502322	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.272	112	922153	62.257	ng	0.00
7) Phenol-d6	6.831	99	1113451	59.553	ng	0.00
23) Nitrobenzene-d5	8.778	82	661610	41.865	ng	-0.01
42) 2,4,6-Tribromophenol	15.795	330	506905	69.835	ng	-0.01
45) 2-Fluorobiphenyl	12.884	172	1612940	42.014	ng	-0.02
79) Terphenyl-d14	19.824	244	2586426	40.979	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	10.460	128	162638	3.344	ng	100
37) 2-Methylnaphthalene	12.078	142	111164	3.243	ng	97
38) 1-Methylnaphthalene	12.295	142	103446	3.089	ng	99
49) Acenaphthylene	14.001	152	287875	5.283	ng	99
52) Acenaphthene	14.342	154	105579	3.314	ng	98
55) Dibenzofuran	14.678	168	131035	2.644	ng	99
58) Fluorene	15.354	166	240659	6.139	ng	96
71) Phenanthrene	17.136	178	1760921	27.807	ng	100
72) Anthracene	17.219	178	559961	8.681	ng	100
73) Carbazole	17.507	167	126756	2.076	ng	97
75) Fluoranthene	19.219	202	2915951	37.835	ng	98
78) Pyrene	19.595	202	2836865	33.745	ng	99
81) Benzo(a)anthracene	21.513	228	1584218	17.902	ng	95
83) Chrysene	21.577	228	1516642	18.100	ng	98
87) Indeno(1,2,3-cd)pyrene	28.536	276	1107146	9.751	ng	92
88) Benzo(b)fluoranthene	23.783	252	2091136	22.903	ng	99
89) Benzo(k)fluoranthene	23.848	252	683109m	7.479	ng	
90) Benzo(a)pyrene	24.659	252	1596225	18.437	ng	97
91) Dibenzo(a,h)anthracene	28.600	278	281677	3.033	ng	# 90
92) Benzo(g,h,i)perylene	29.689	276	1128900	12.194	ng	98

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

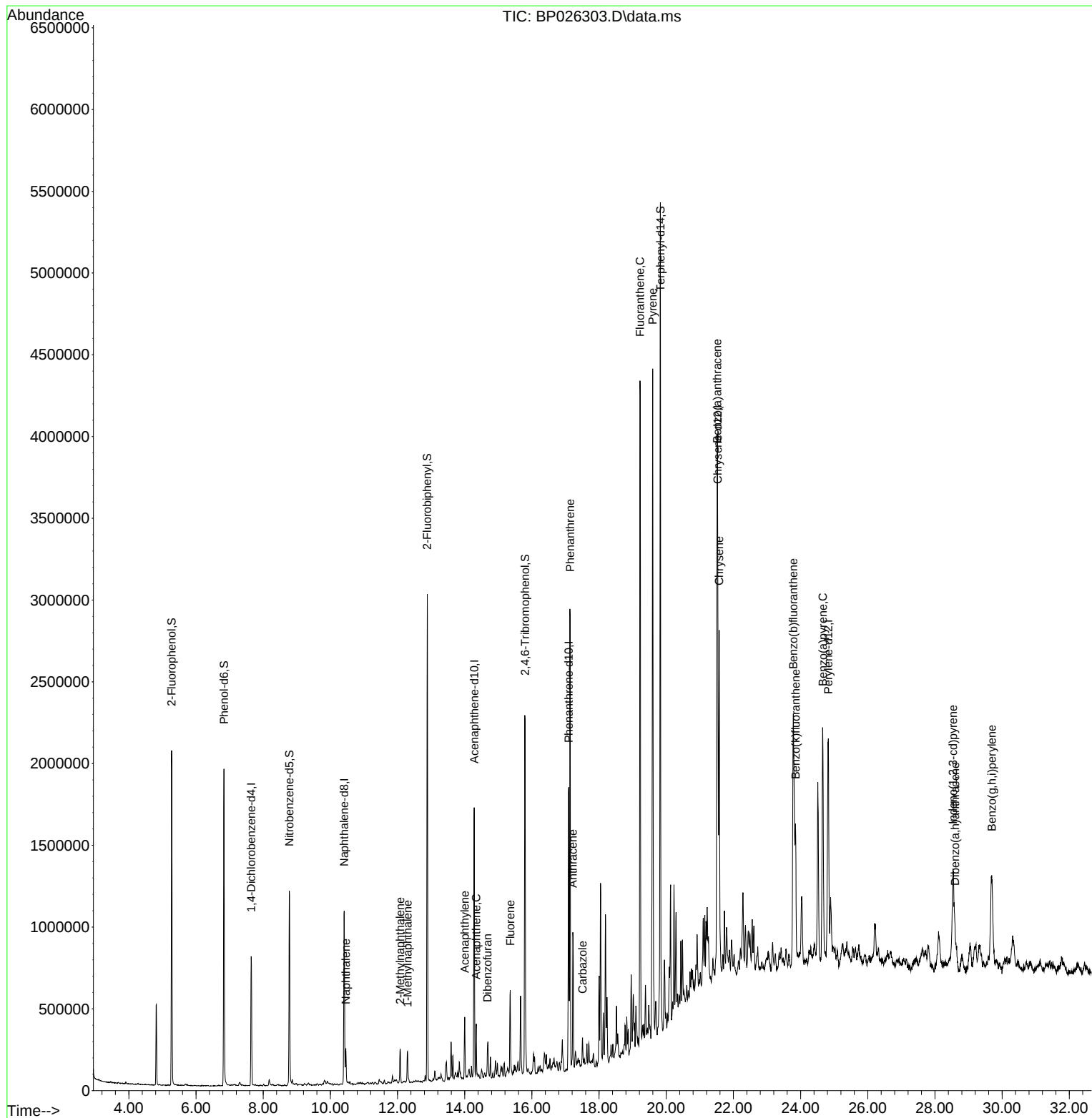
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP121125\
Data File : BP026303.D
Acq On : 11 Dec 2025 22:03
Operator : RC/JU
Sample : Q3831-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

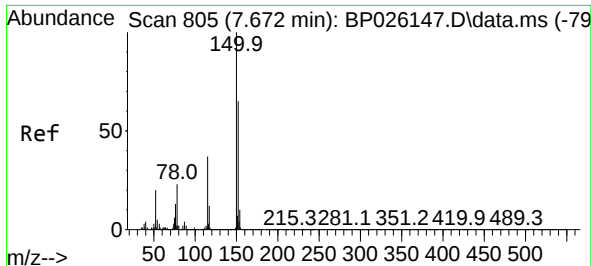
Instrument :
BNA_P
ClientSampleId :
PL-01-12102025

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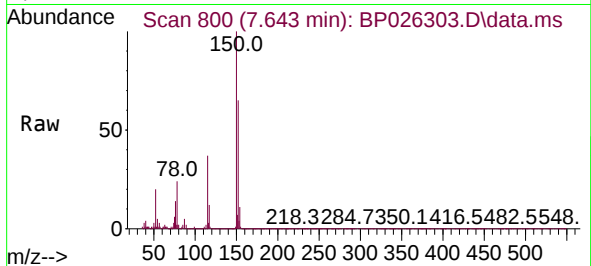
Quant Time: Dec 11 23:43:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP111825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 05 14:52:44 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.643 min Scan# 80
Delta R.T. -0.012 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03

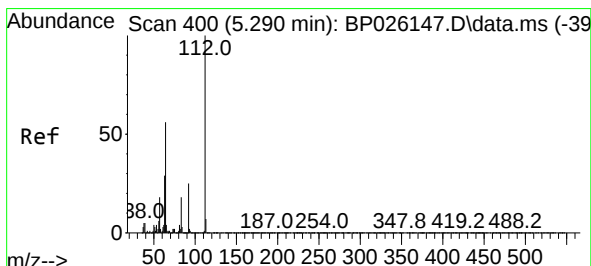
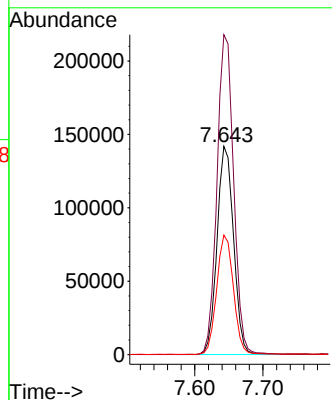
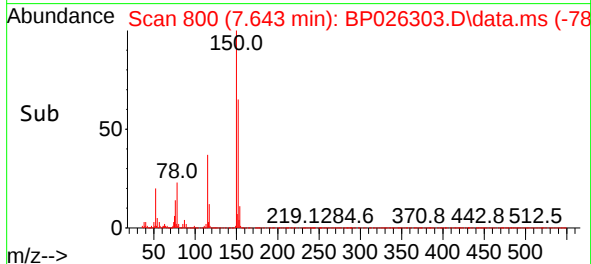
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BNA_P
ClientSampleId :
PL-01-12102025



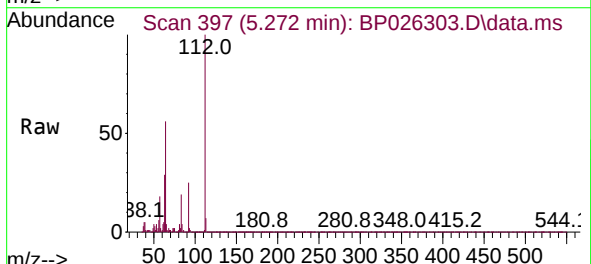
Tgt Ion:152 Resp: 238130
Ion Ratio Lower Upper
152 100
150 153.6 123.0 184.6
115 57.4 46.3 69.5

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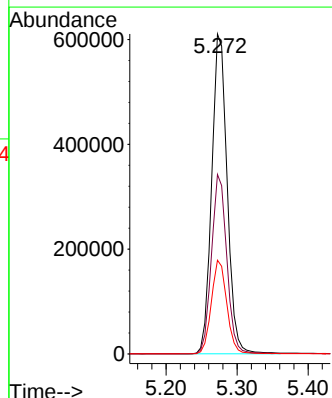
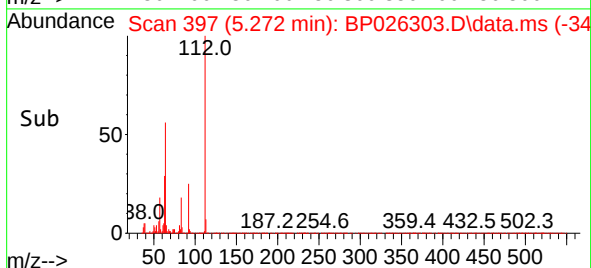
Reviewed By :Rahul Chavli 12/12/2025
Supervised By :Jagrut Upadhyay 12/12/2025

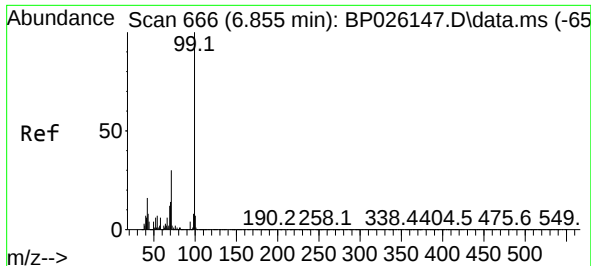


#5
2-Fluorophenol
Concen: 62.257 ng
RT: 5.272 min Scan# 397
Delta R.T. -0.006 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03



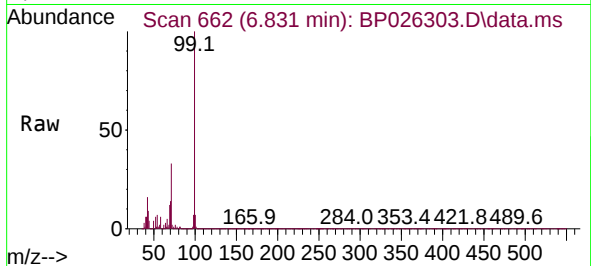
Tgt Ion:112 Resp: 922153
Ion Ratio Lower Upper
112 100
64 56.1 45.8 68.6
63 29.3 23.5 35.3





#7
Phenol-d6
Concen: 59.553 ng
RT: 6.831 min Scan# 60
Delta R.T. -0.006 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03

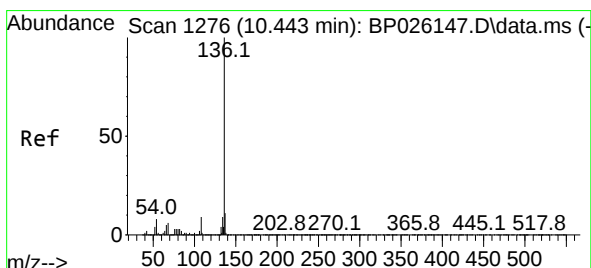
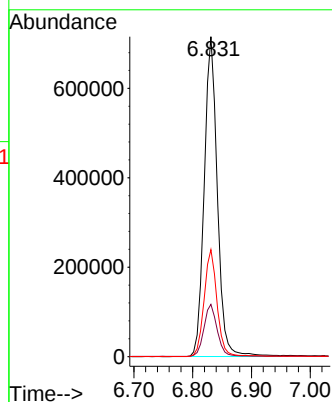
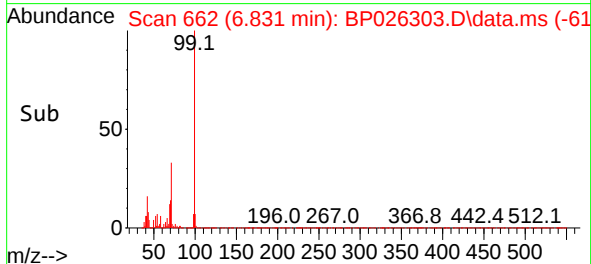
Instrument :
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ClientSampleId :
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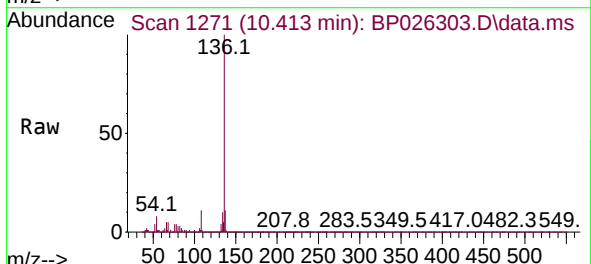
Tgt Ion: 99 Resp: 111345
Ion Ratio Lower Upper
99 100
42 16.3 12.9 19.3
71 33.4 24.8 37.2

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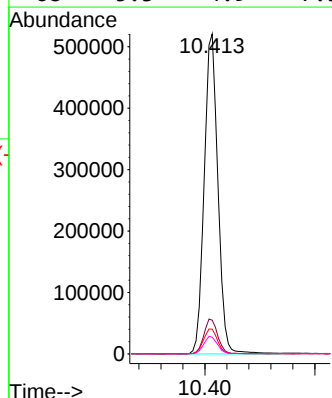
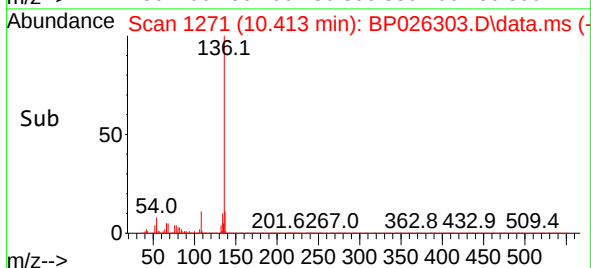
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Supervised By :Jagrut Upadhyay 12/12/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.413 min Scan# 1271
Delta R.T. -0.006 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03



Tgt Ion:136 Resp: 899526
Ion Ratio Lower Upper
136 100
137 10.5 8.7 13.1
54 7.7 6.4 9.6
68 5.3 4.9 7.3





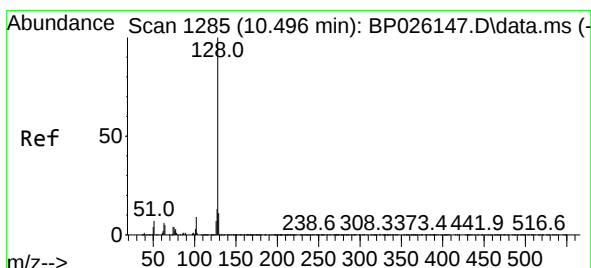
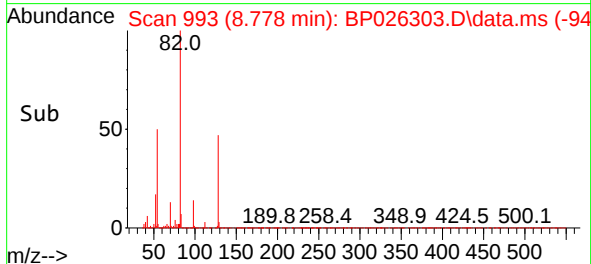
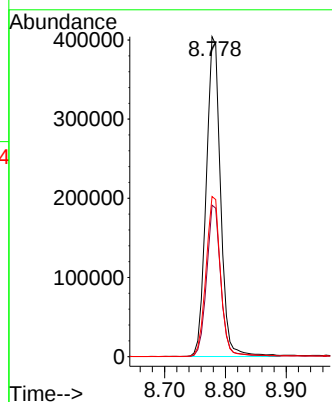
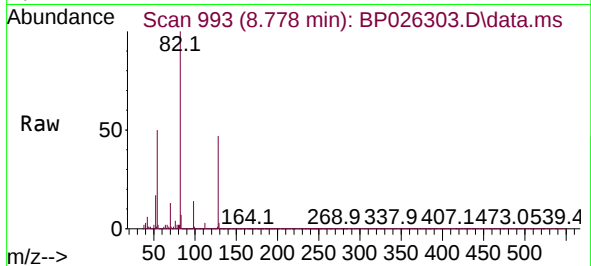
#23
Nitrobenzene-d5
Concen: 41.865 ng
RT: 8.778 min Scan# 99
Delta R.T. -0.012 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03

Instrument :
BNA_P
ClientSampleId :
PL-01-12102025

Tgt Ion: 82 Resp: 661610
Ion Ratio Lower Upper
82 100
128 47.3 37.4 56.0
54 50.0 41.6 62.4

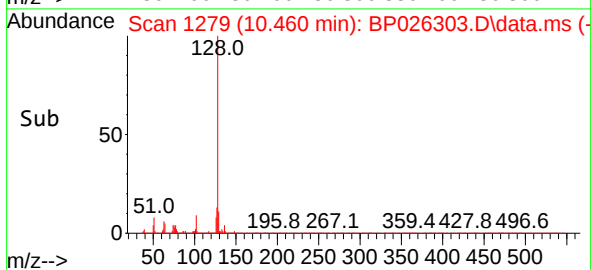
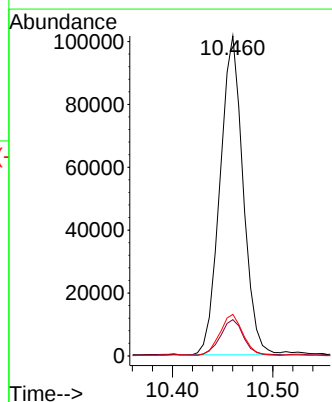
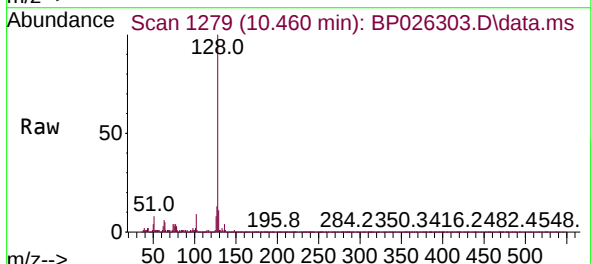
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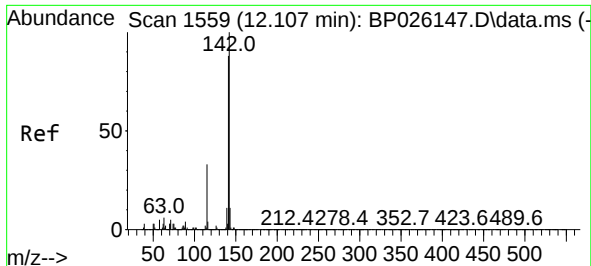
Reviewed By :Rahul Chavli 12/12/2025
Supervised By :Jagrut Upadhyay 12/12/2025



#31
Naphthalene
Concen: 3.344 ng
RT: 10.460 min Scan# 1279
Delta R.T. -0.006 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03

Tgt Ion:128 Resp: 162638
Ion Ratio Lower Upper
128 100
129 11.3 9.0 13.6
127 13.0 10.2 15.4





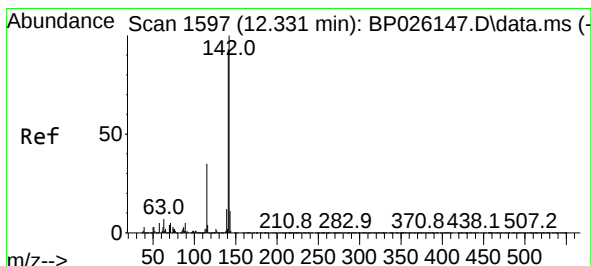
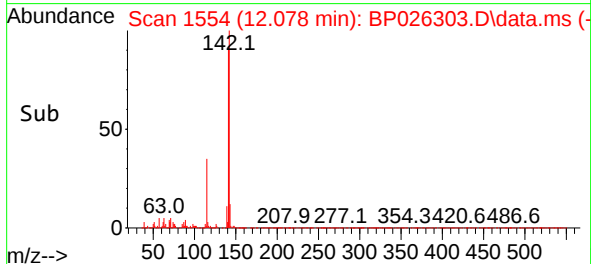
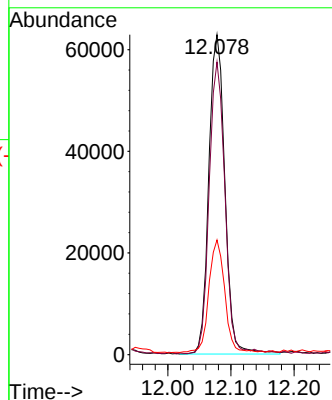
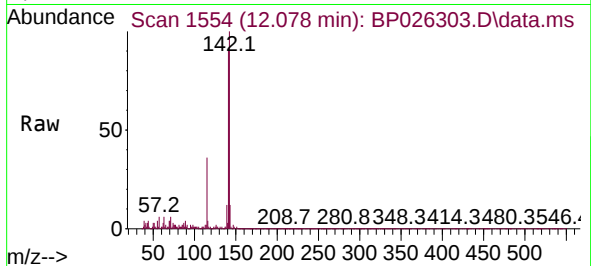
#37
2-Methylnaphthalene
Concen: 3.243 ng
RT: 12.078 min Scan# 1554
Delta R.T. -0.006 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03

Instrument : BNA_P
ClientSampleId : PL-01-12102025

Tgt Ion:142 Resp: 111164
Ion Ratio Lower Upper
142 100
141 91.4 71.0 106.6
115 35.8 26.6 39.8

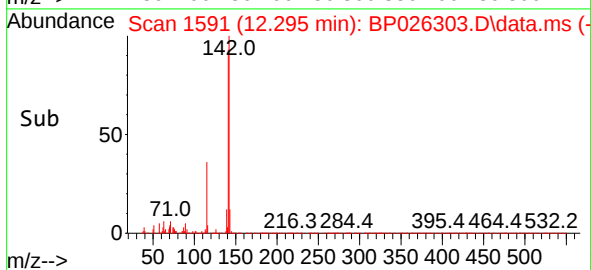
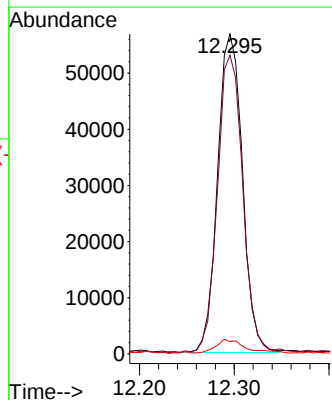
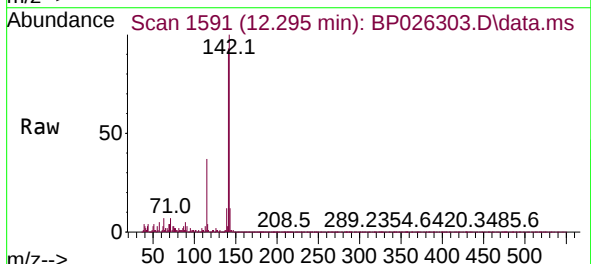
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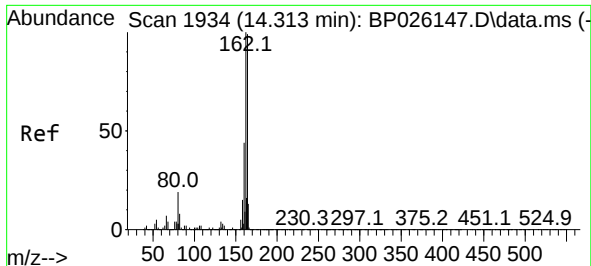
Reviewed By :Rahul Chavli 12/12/2025
Supervised By :Jagrut Upadhyay 12/12/2025



#38
1-Methylnaphthalene
Concen: 3.089 ng
RT: 12.295 min Scan# 1591
Delta R.T. -0.012 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03

Tgt Ion:142 Resp: 103446
Ion Ratio Lower Upper
142 100
141 93.4 73.5 110.3
116 3.8 3.0 4.4





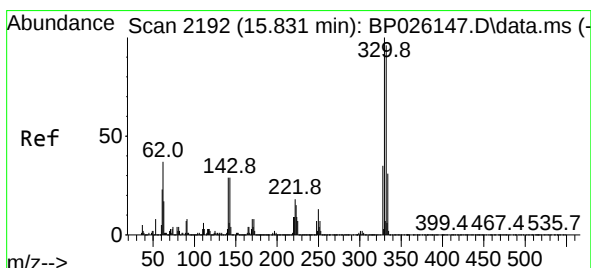
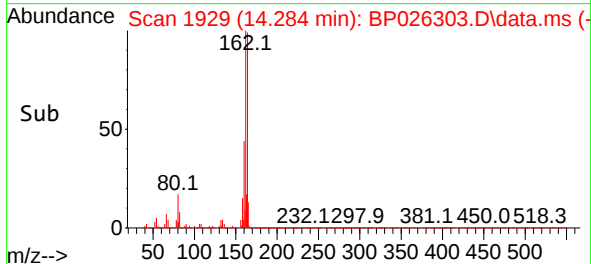
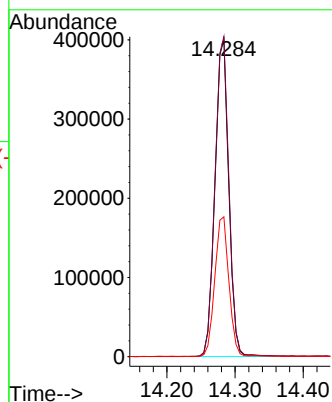
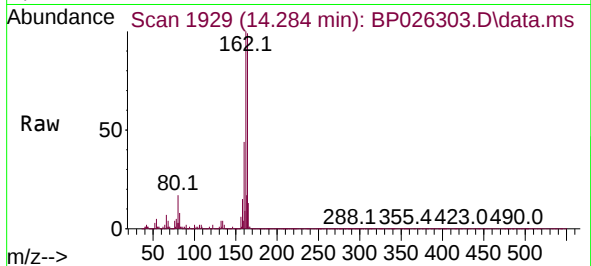
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.284 min Scan# 1934
Delta R.T. -0.006 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03

Instrument :
BNA_P
ClientSampleId :
PL-01-12102025

Tgt Ion:164 Resp: 55815
Ion Ratio Lower Upper
164 100
162 100.9 80.3 120.5
160 44.1 35.2 52.8

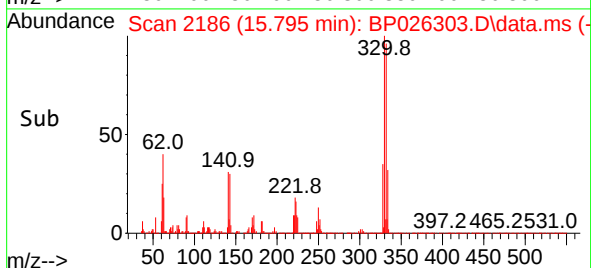
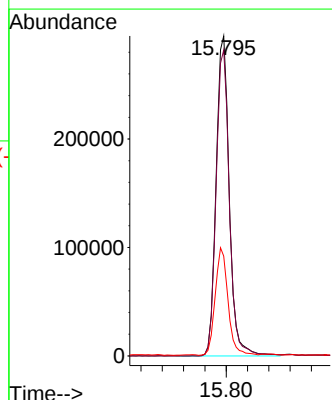
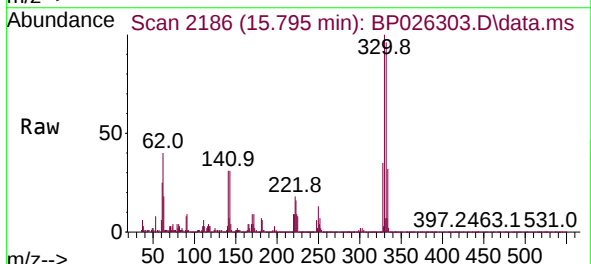
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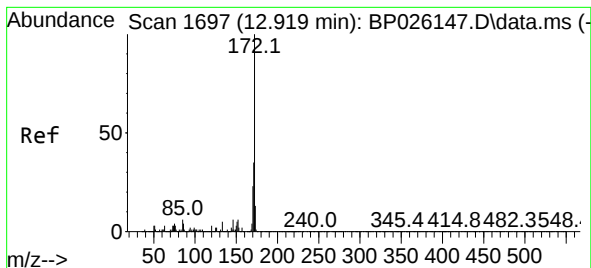
Reviewed By :Rahul Chavli 12/12/2025
Supervised By :Jagrut Upadhyay 12/12/2025



#42
2,4,6-Tribromophenol
Concen: 69.835 ng
RT: 15.795 min Scan# 2186
Delta R.T. -0.012 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03

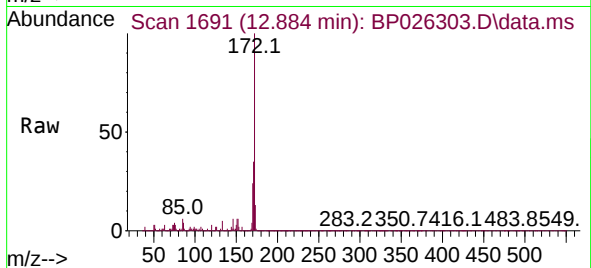
Tgt Ion:330 Resp: 506905
Ion Ratio Lower Upper
330 100
332 96.5 78.0 117.0
141 32.7 26.8 40.2





#45
2-Fluorobiphenyl
Concen: 42.014 ng
RT: 12.884 min Scan# 1697
Delta R.T. -0.018 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03

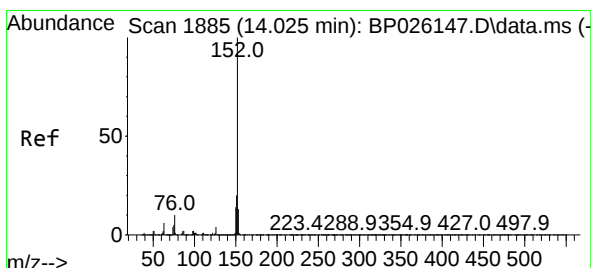
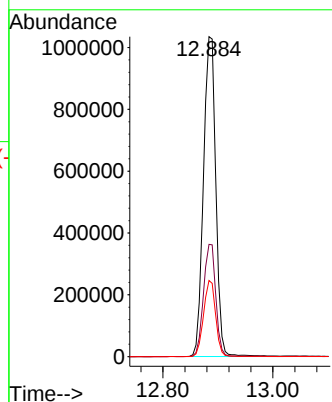
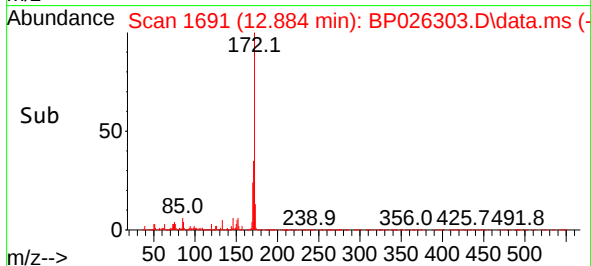
Instrument : BNA_P
ClientSampleId : PL-01-12102025



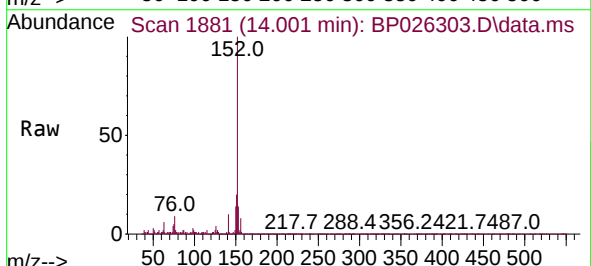
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Ion Ratio Lower Upper
172 100
171 35.1 28.2 42.4
170 23.8 18.7 28.1

Manual Integrations
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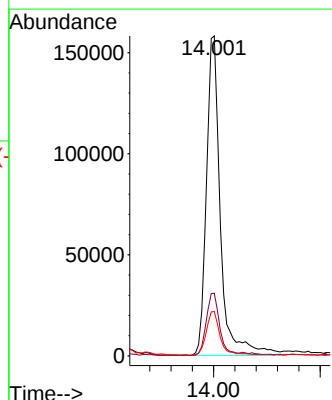
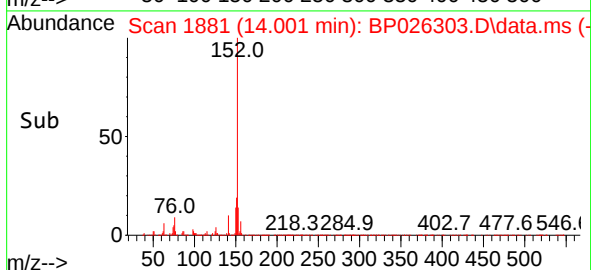
Reviewed By :Rahul Chavli 12/12/2025
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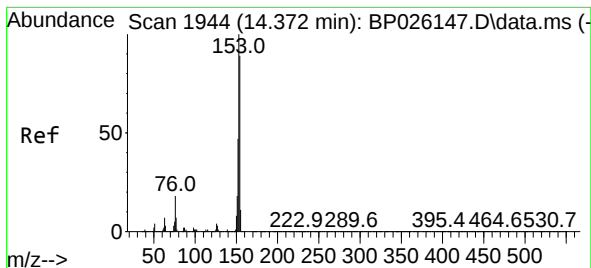


#49
Acenaphthylene
Concen: 5.283 ng
RT: 14.001 min Scan# 1881
Delta R.T. -0.000 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03



Tgt Ion:152 Resp: 287875
Ion Ratio Lower Upper
152 100
151 19.6 15.8 23.8
153 13.9 10.6 16.0





#52

Acenaphthene

Concen: 3.314 ng

RT: 14.342 min Scan# 1944

Delta R.T. -0.012 min

Lab File: BP026303.D

Acq: 11 Dec 2025 22:03

Instrument :

BNA_P

ClientSampleId :

PL-01-12102025

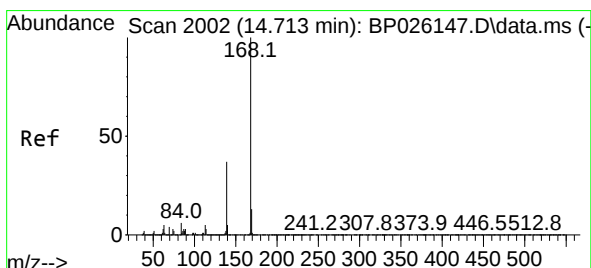
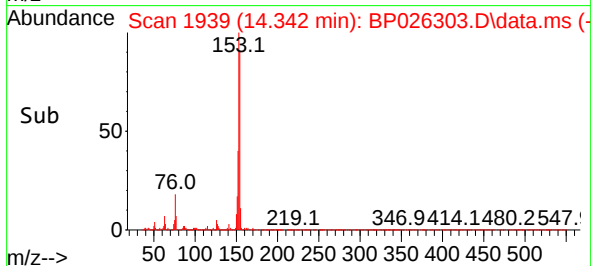
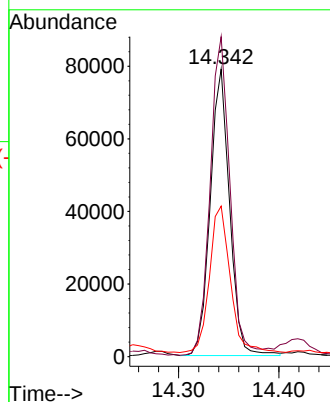
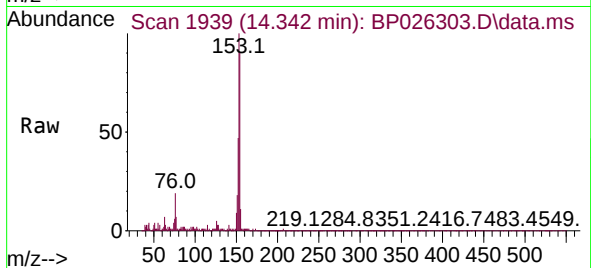
Tgt Ion:154 Resp: 105579
 Ion Ratio Lower Upper
 154 100
 153 111.3 90.7 136.1
 152 52.4 42.8 64.2

Manual Integrations

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#55

Dibenzofuran

Concen: 2.644 ng

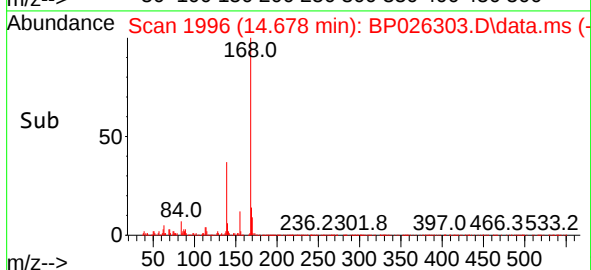
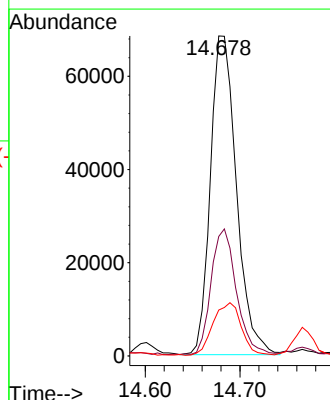
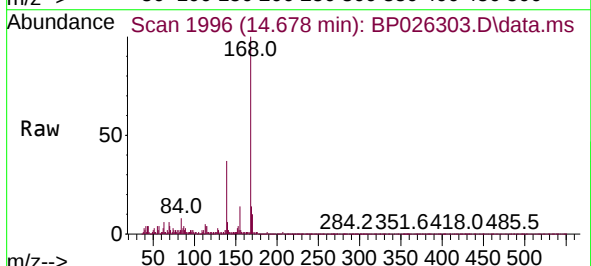
RT: 14.678 min Scan# 1996

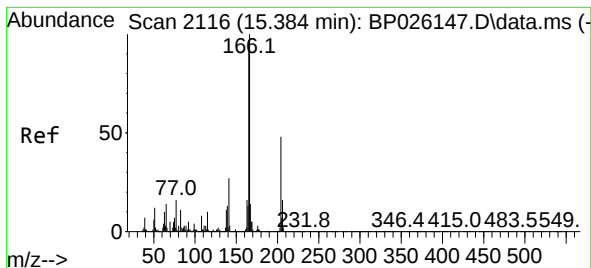
Delta R.T. -0.018 min

Lab File: BP026303.D

Acq: 11 Dec 2025 22:03

Tgt Ion:168 Resp: 131035
 Ion Ratio Lower Upper
 168 100
 139 37.3 29.8 44.6
 169 14.3 10.9 16.3





#58

Fluorene

Concen: 6.139 ng

RT: 15.354 min Scan# 2116

Delta R.T. -0.006 min

Lab File: BP026303.D

Acq: 11 Dec 2025 22:03

Instrument :

BNA_P

ClientSampleId :

PL-01-12102025

Tgt Ion:166 Resp: 240659

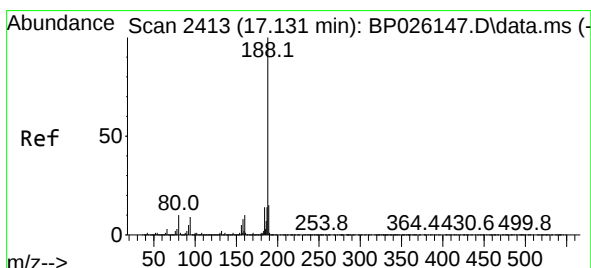
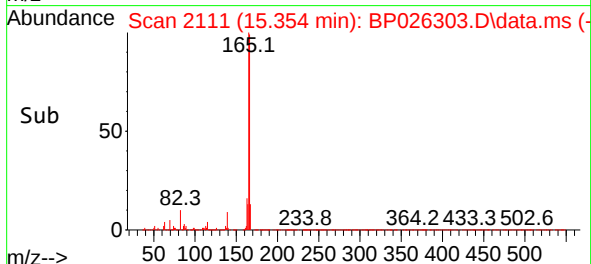
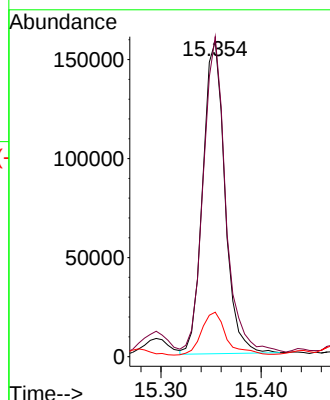
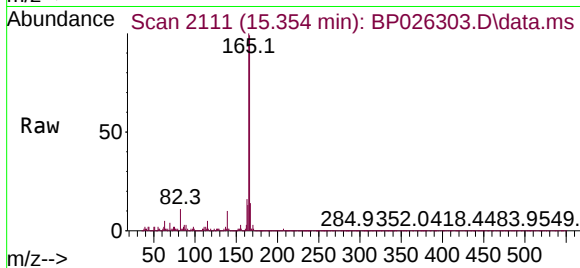
Ion	Ratio	Lower	Upper
166	100		
165	101.4	77.9	116.9
167	14.1	11.0	16.4

Manual Integrations

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Reviewed By :Rahul Chavli 12/12/2025

Supervised By :Jagrut Upadhyay 12/12/2025



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.095 min Scan# 2407

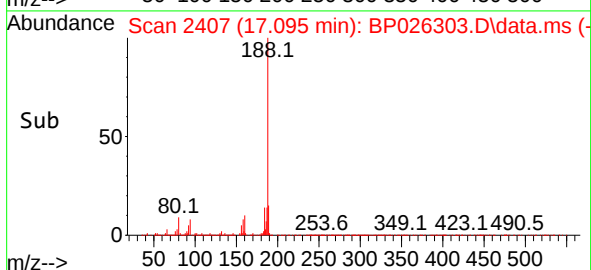
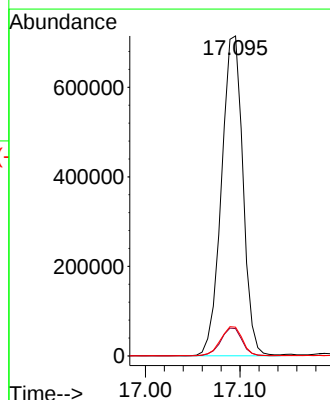
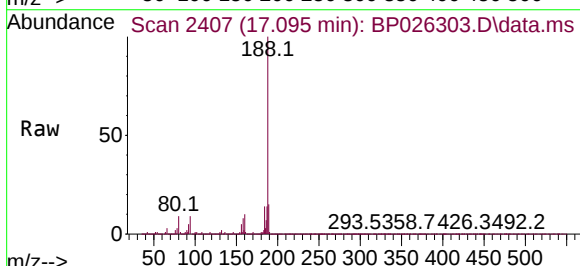
Delta R.T. -0.000 min

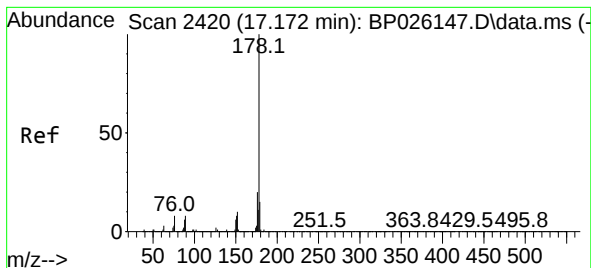
Lab File: BP026303.D

Acq: 11 Dec 2025 22:03

Tgt Ion:188 Resp: 1123330

Ion	Ratio	Lower	Upper
188	100		
94	8.5	7.8	11.6
80	9.0	8.2	12.2





#71

Phenanthrene

Concen: 27.807 ng

RT: 17.136 min Scan# 2414

Delta R.T. -0.000 min

Lab File: BP026303.D

Acq: 11 Dec 2025 22:03

Instrument :

BNA_P

ClientSampleId :

PL-01-12102025

Tgt Ion:178 Resp: 176092

Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.2

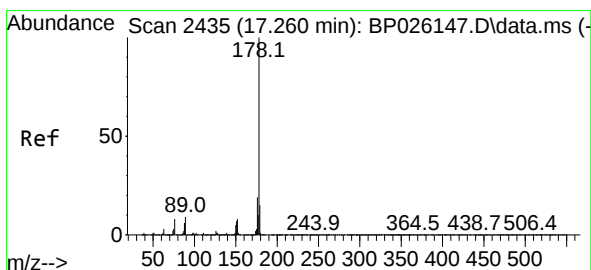
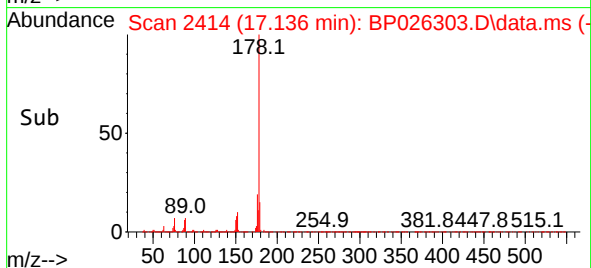
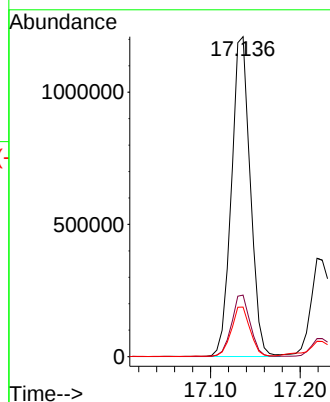
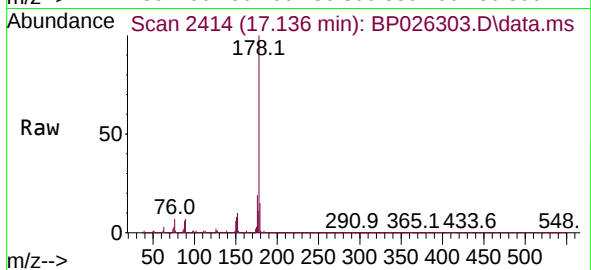
179 15.5 12.4 18.6

Manual Integrations

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Reviewed By :Rahul Chavli 12/12/2025

Supervised By :Jagrut Upadhyay 12/12/2025



#72

Anthracene

Concen: 8.681 ng

RT: 17.219 min Scan# 2428

Delta R.T. -0.012 min

Lab File: BP026303.D

Acq: 11 Dec 2025 22:03

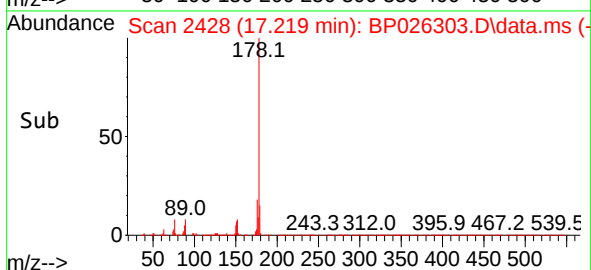
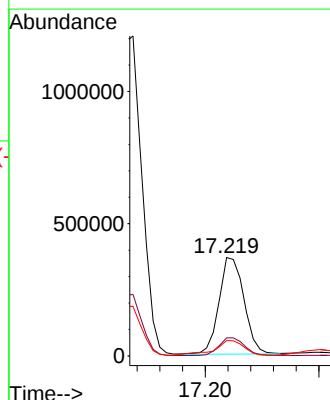
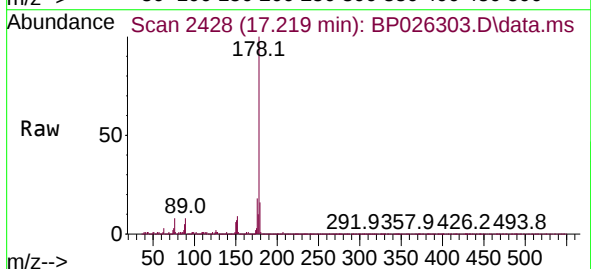
Tgt Ion:178 Resp: 559961

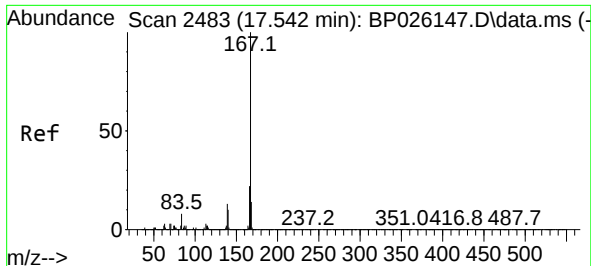
Ion Ratio Lower Upper

178 100

176 18.4 14.8 22.2

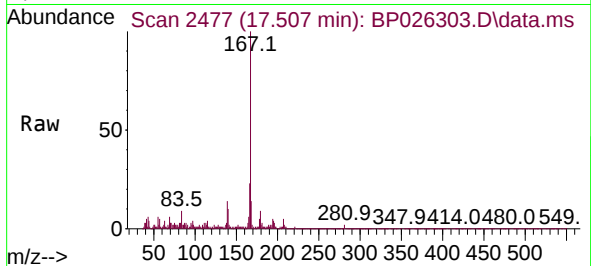
179 15.5 12.2 18.4





#73
 Carbazole
 Concen: 2.076 ng
 RT: 17.507 min Scan# 2483
 Delta R.T. -0.006 min
 Lab File: BP026303.D
 Acq: 11 Dec 2025 22:03

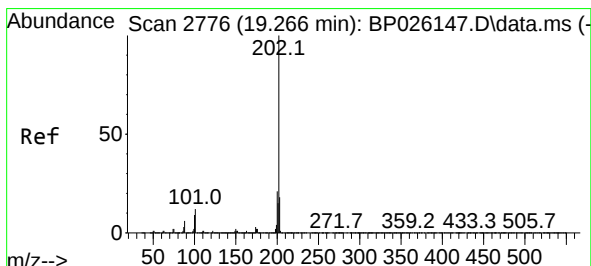
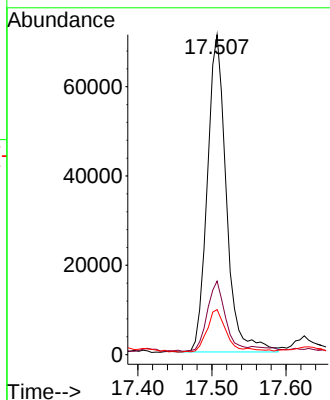
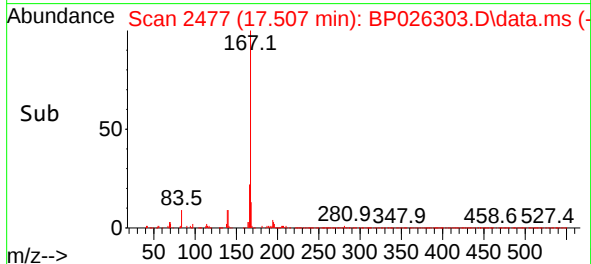
Instrument :
 BNA_P
 ClientSampleId :
 PL-01-12102025



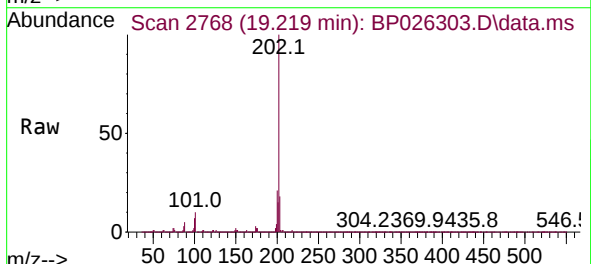
Tgt Ion:167 Resp: 126756
 Ion Ratio Lower Upper
 167 100
 166 23.0 17.1 25.7
 139 14.1 10.2 15.4

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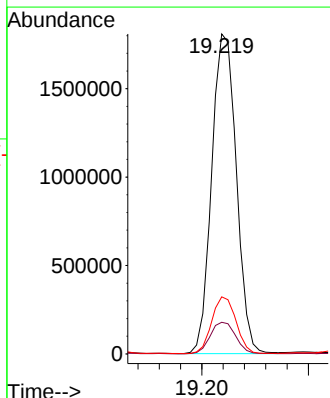
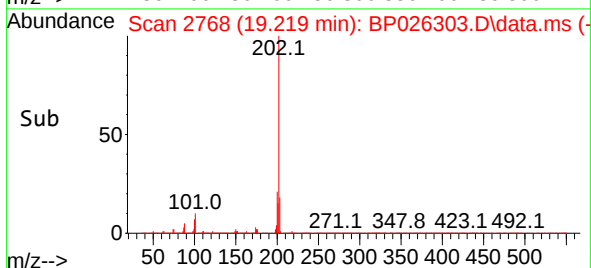
Reviewed By :Rahul Chavli 12/12/2025
 Supervised By :Jagrut Upadhyay 12/12/2025

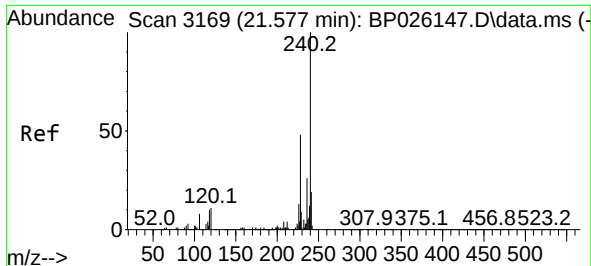


#75
 Fluoranthene
 Concen: 37.835 ng
 RT: 19.219 min Scan# 2768
 Delta R.T. -0.018 min
 Lab File: BP026303.D
 Acq: 11 Dec 2025 22:03



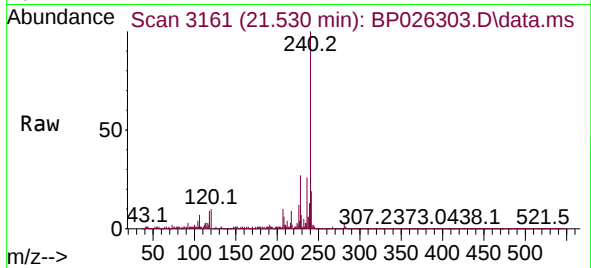
Tgt Ion:202 Resp: 2915951
 Ion Ratio Lower Upper
 202 100
 101 9.9 0.0 31.2
 203 17.8 0.0 37.7





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.530 min Scan# 3161
Delta R.T. -0.006 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03

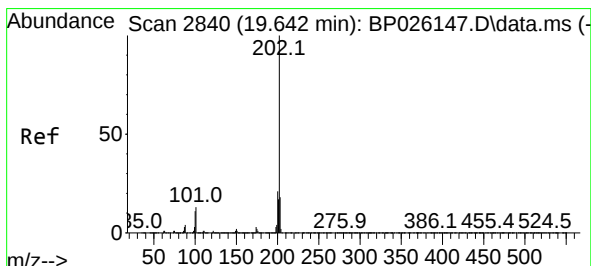
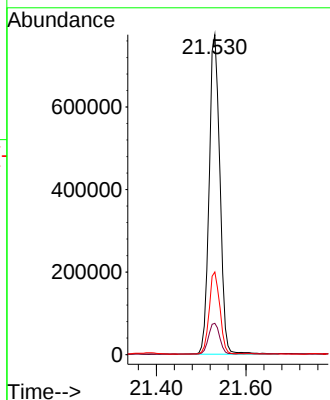
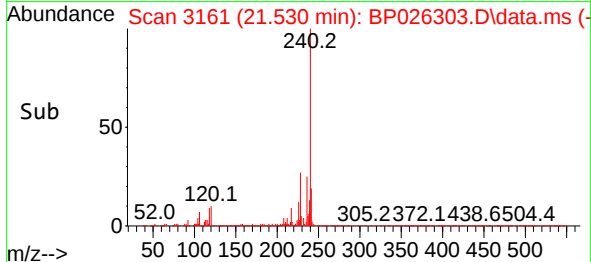
Instrument :
BNA_P
ClientSampleId :
PL-01-12102025



Tgt Ion:240 Resp: 1290051
Ion Ratio Lower Upper
240 100
120 9.8 9.0 13.4
236 25.8 20.4 30.6

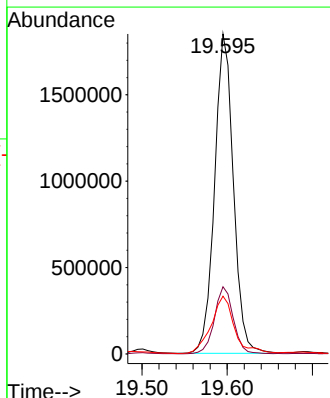
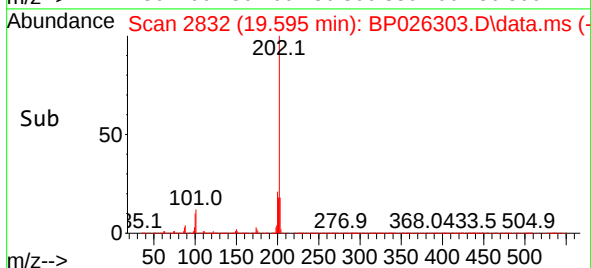
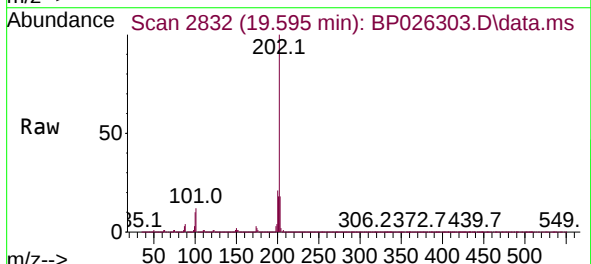
Manual Integrations
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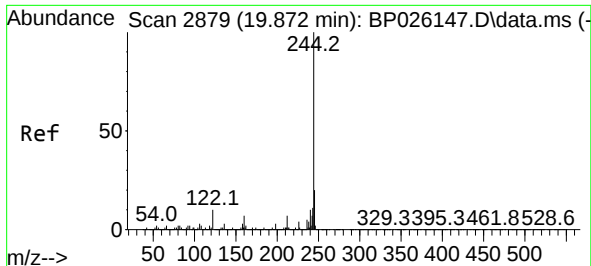
Reviewed By :Rahul Chavli 12/12/2025
Supervised By :Jagrut Upadhyay 12/12/2025



#78
Pyrene
Concen: 33.745 ng
RT: 19.595 min Scan# 2832
Delta R.T. -0.018 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03

Tgt Ion:202 Resp: 2836865
Ion Ratio Lower Upper
202 100
200 21.0 16.9 25.3
203 18.0 13.8 20.8





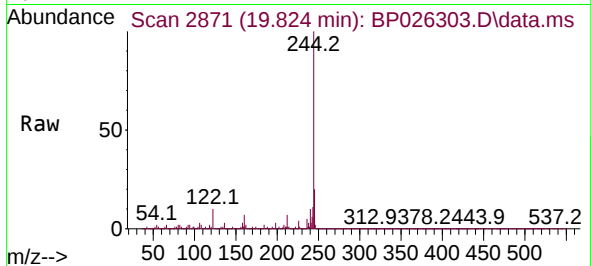
#79
 Terphenyl-d14
 Concen: 40.979 ng
 RT: 19.824 min Scan# 2879
 Delta R.T. -0.012 min
 Lab File: BP026303.D
 Acq: 11 Dec 2025 22:03

Instrument :

BNA_P

ClientSampleId :

PL-01-12102025



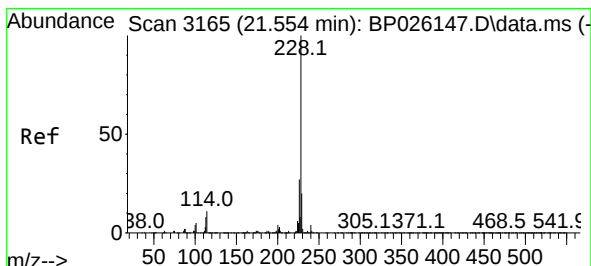
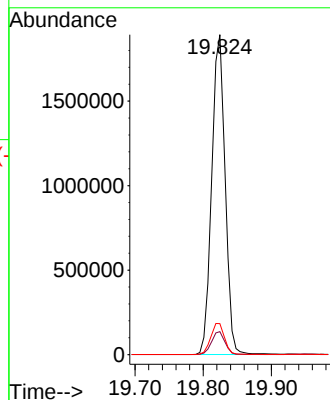
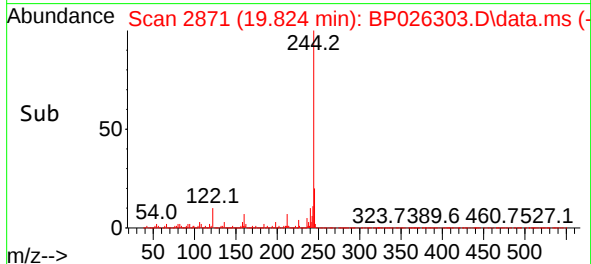
Tgt Ion:244 Resp: 2586426
 Ion Ratio Lower Upper
 244 100
 212 7.2 5.8 8.8
 122 9.7 8.2 12.2

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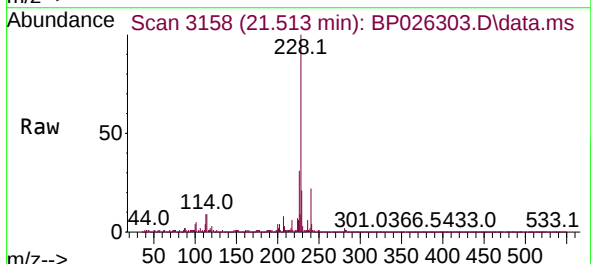
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Reviewed By :Rahul Chavli 12/12/2025

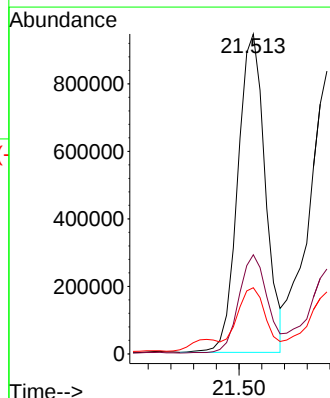
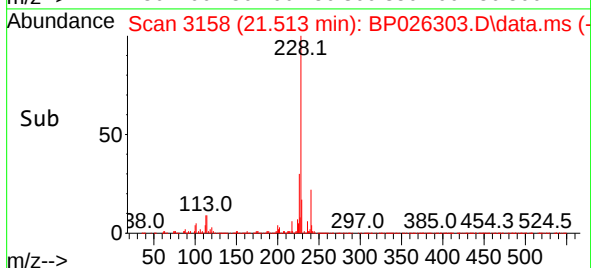
Supervised By :Jagrut Upadhyay 12/12/2025

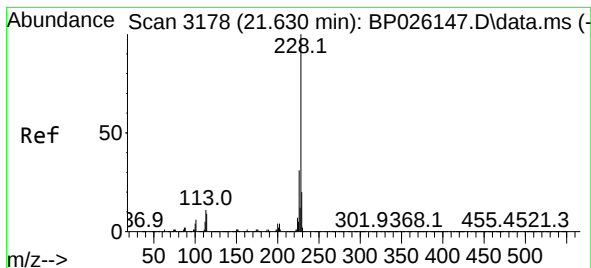


#81
 Benzo(a)anthracene
 Concen: 17.902 ng
 RT: 21.513 min Scan# 3158
 Delta R.T. -0.006 min
 Lab File: BP026303.D
 Acq: 11 Dec 2025 22:03



Tgt Ion:228 Resp: 1584218
 Ion Ratio Lower Upper
 228 100
 226 31.0 21.8 32.8
 229 20.7 15.9 23.9





#83

Chrysene

Concen: 18.100 ng

RT: 21.577 min Scan# 31

Delta R.T. -0.006 min

Lab File: BP026303.D

Acq: 11 Dec 2025 22:03

Instrument :

BNA_P

ClientSampleId :

PL-01-12102025

Tgt Ion:228 Resp: 151664

Ion Ratio Lower Upper

228 100

226 30.0 23.9 35.9

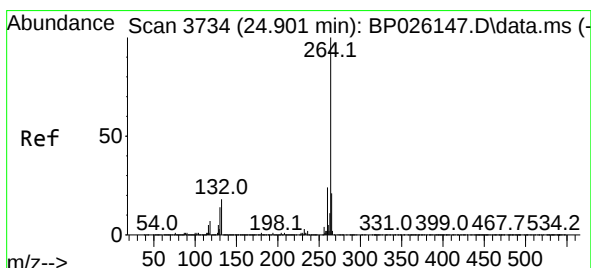
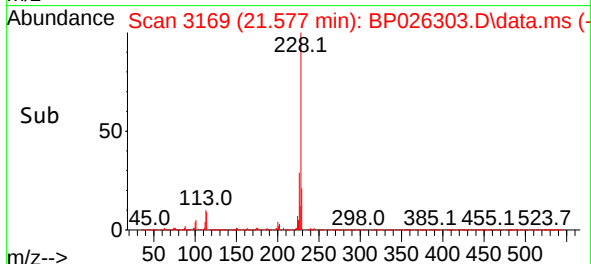
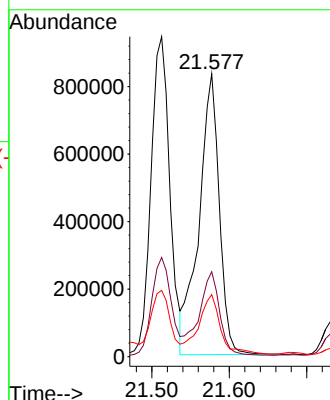
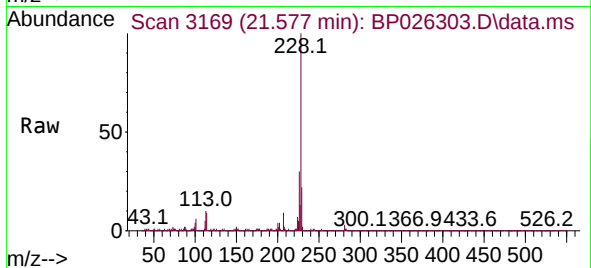
229 21.9 15.9 23.9

Manual Integrations

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Reviewed By :Rahul Chavli 12/12/2025

Supervised By :Jagrut Upadhyay 12/12/2025



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.824 min Scan# 3721

Delta R.T. -0.000 min

Lab File: BP026303.D

Acq: 11 Dec 2025 22:03

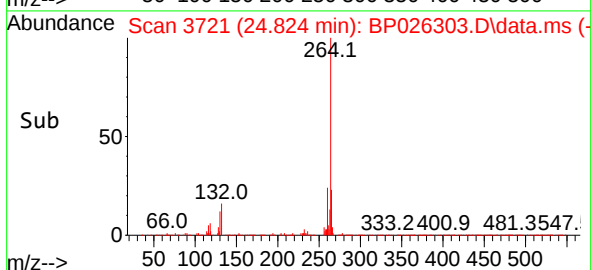
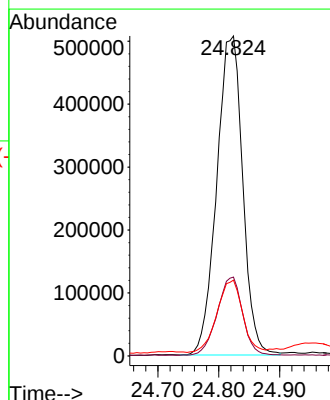
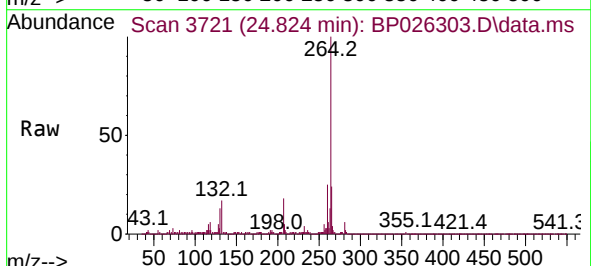
Tgt Ion:264 Resp: 1502322

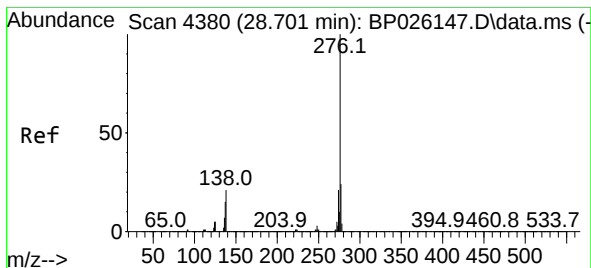
Ion Ratio Lower Upper

264 100

260 24.6 18.7 28.1

265 23.7 17.5 26.3





#87

Indeno(1,2,3-cd)pyrene

Concen: 9.751 ng

RT: 28.536 min Scan# 4380

Delta R.T. -0.047 min

Lab File: BP026303.D

Acq: 11 Dec 2025 22:03

Instrument :

BNA_P

ClientSampleId :

PL-01-12102025

Tgt Ion:276 Resp: 1107146

Ion Ratio Lower Upper

276 100

138 20.3 13.8 20.8

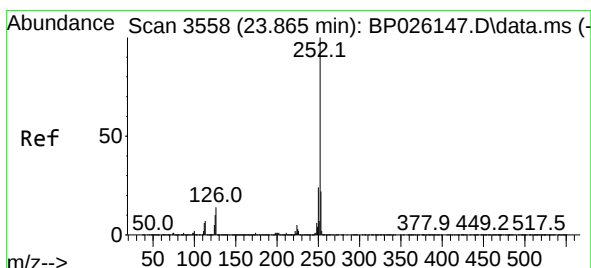
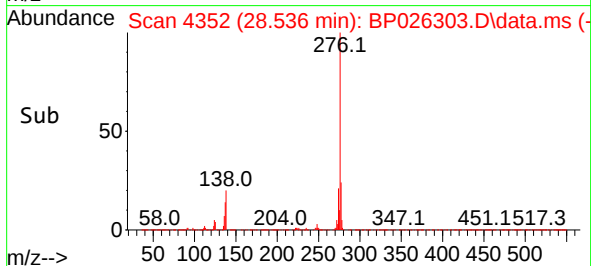
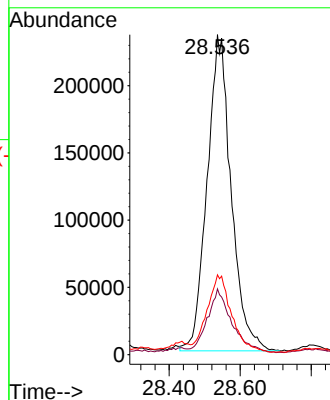
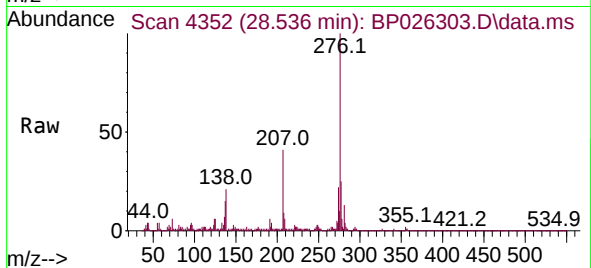
277 25.1 16.7 25.1

Manual Integrations

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Reviewed By :Rahul Chavli 12/12/2025

Supervised By :Jagrut Upadhyay 12/12/2025



#88

Benzo(b)fluoranthene

Concen: 22.903 ng

RT: 23.783 min Scan# 3544

Delta R.T. -0.012 min

Lab File: BP026303.D

Acq: 11 Dec 2025 22:03

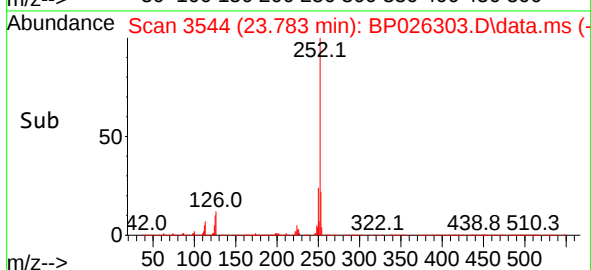
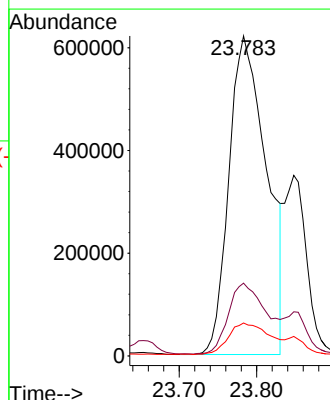
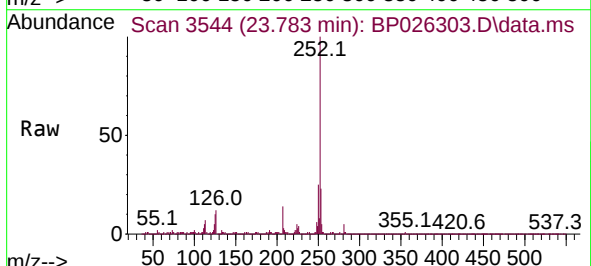
Tgt Ion:252 Resp: 2091136

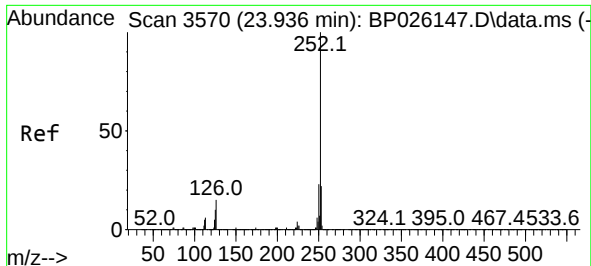
Ion Ratio Lower Upper

252 100

253 22.7 17.6 26.4

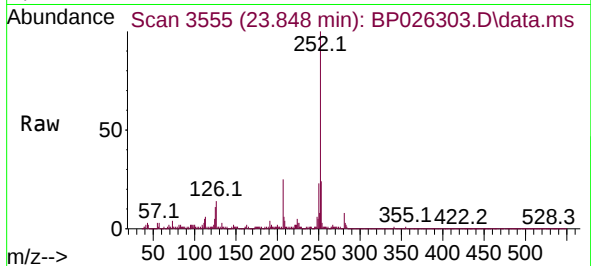
125 10.3 8.2 12.4





#89
Benzo(k)fluoranthene
Concen: 7.479 ng m
RT: 23.848 min Scan# 3555
Delta R.T. -0.018 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03

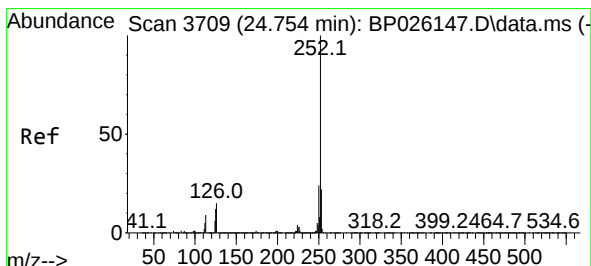
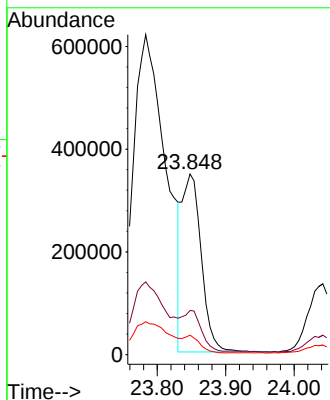
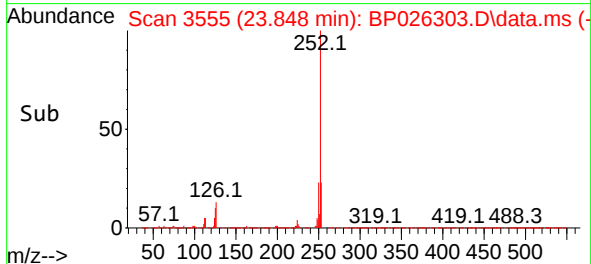
Instrument : BNA_P
ClientSampleId : PL-01-12102025



Tgt Ion:252 Resp: 683109
Ion Ratio Lower Upper
252 100
253 24.4 17.6 26.4
125 10.8 7.5 11.3

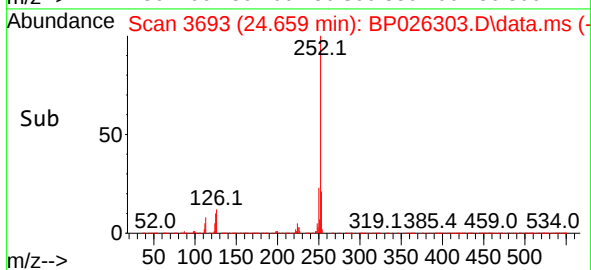
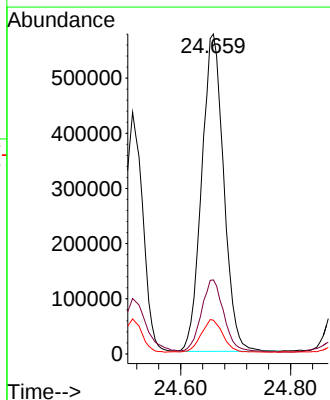
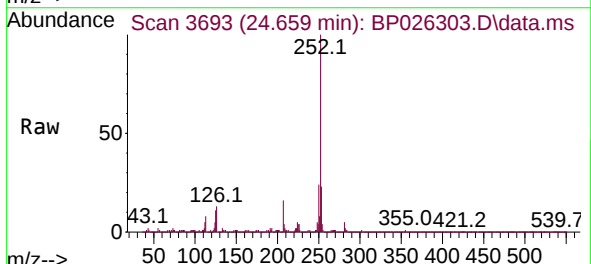
Manual Integrations
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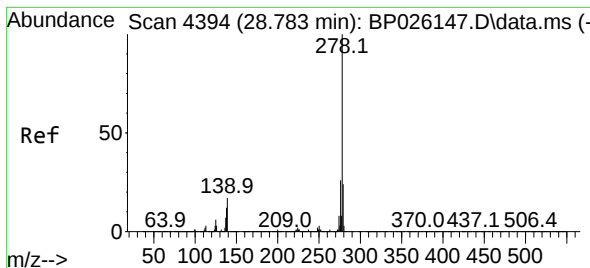
Reviewed By :Rahul Chavli 12/12/2025
Supervised By :Jagrut Upadhyay 12/12/2025



#90
Benzo(a)pyrene
Concen: 18.437 ng
RT: 24.659 min Scan# 3693
Delta R.T. -0.024 min
Lab File: BP026303.D
Acq: 11 Dec 2025 22:03

Tgt Ion:252 Resp: 1596225
Ion Ratio Lower Upper
252 100
253 23.1 17.4 26.2
125 10.5 9.0 13.6





#91

Dibenzo(a,h)anthracene

Concen: 3.033 ng

RT: 28.600 min Scan# 4394

Delta R.T. -0.047 min

Lab File: BP026303.D

Acq: 11 Dec 2025 22:03

Instrument :

BNA_P

ClientSampleId :

PL-01-12102025

Tgt Ion:278 Resp: 28167

Ion Ratio Lower Upper

278 100

139 17.6 13.2 19.8

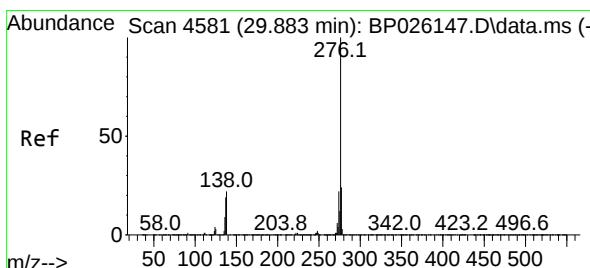
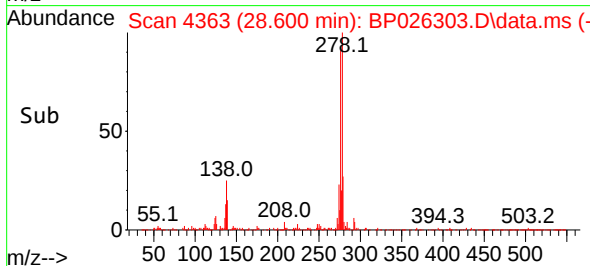
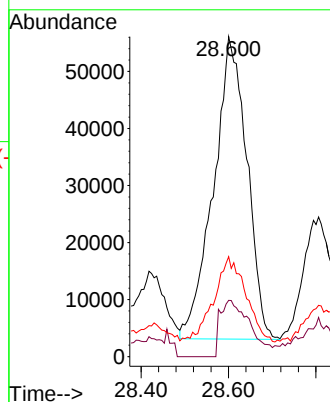
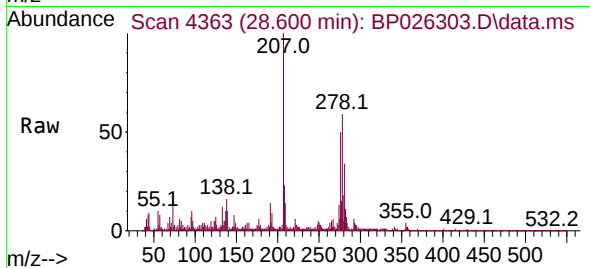
279 31.2 19.2 28.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 12/12/2025

Supervised By :Jagrut Upadhyay 12/12/2025



#92

Benzo(g,h,i)perylene

Concen: 12.194 ng

RT: 29.689 min Scan# 4548

Delta R.T. -0.059 min

Lab File: BP026303.D

Acq: 11 Dec 2025 22:03

Tgt Ion:276 Resp: 1128900

Ion Ratio Lower Upper

276 100

277 23.8 18.8 28.2

138 20.8 17.8 26.6

