

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP111325\
 Data File : BP026134.D
 Acq On : 13 Nov 2025 19:04
 Operator : RC/JU
 Sample : Q3601-09
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 TP-3

Quant Time: Nov 14 03:53:37 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP102925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 30 11:51:34 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 11/14/2025
 Supervised By :Sohil Jodhani 11/14/2025

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.672	152	359629	20.000	ng	-0.02
21) Naphthalene-d8	10.443	136	1523905	20.000	ng	-0.01
39) Acenaphthene-d10	14.313	164	934289	20.000	ng	0.00
64) Phenanthrene-d10	17.131	188	1790812	20.000	ng	0.00
76) Chrysene-d12	21.577	240	1749682	20.000	ng	0.01
86) Perylene-d12	24.901	264	1978335	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.296	112	1561227	71.634	ng	0.00
7) Phenol-d6	6.849	99	1964407	70.815	ng	0.00
23) Nitrobenzene-d5	8.813	82	1151488	47.105	ng	-0.01
42) 2,4,6-Tribromophenol	15.837	330	778446	77.069	ng	0.00
45) 2-Fluorobiphenyl	12.925	172	2707014	41.633	ng	0.00
79) Terphenyl-d14	19.866	244	3639559	42.262	ng	0.00
Target Compounds						Qvalue
49) Acenaphthylene	14.037	152	235614	2.872	ng	99
52) Acenaphthene	14.384	154	208745	3.706	ng	99
55) Dibenzofuran	14.719	168	179854	2.114	ng	98
58) Fluorene	15.378	166	263132	3.947	ng	97
71) Phenanthrene	17.172	178	5180759	49.703	ng	100
72) Anthracene	17.260	178	1233096	11.934	ng	99
73) Carbazole	17.542	167	437466	4.473	ng	99
75) Fluoranthene	19.272	202	7610350	62.590	ng	97
78) Pyrene	19.642	202	7285558	61.565	ng	98
80) Butylbenzylphthalate	20.613	149	53826	4.529	ng	97
81) Benzo(a)anthracene	21.554	228	3819986	31.771	ng	98
83) Chrysene	21.625	228	3638332	31.945	ng	98
84) Bis(2-ethylhexyl)phtha...	21.525	149	97739	3.908	ng	# 97
87) Indeno(1,2,3-cd)pyrene	28.695	276	2437315	16.688	ng	# 90
88) Benzo(b)fluoranthene	23.860	252	4536159	36.935	ng	98
89) Benzo(k)fluoranthene	23.919	252	1669866m	13.315	ng	
90) Benzo(a)pyrene	24.754	252	3510082	31.110	ng	98
91) Dibenzo(a,h)anthracene	28.754	278	608410	5.119	ng	# 91
92) Benzo(g,h,i)perylene	29.836	276	2322818	20.309	ng	99

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

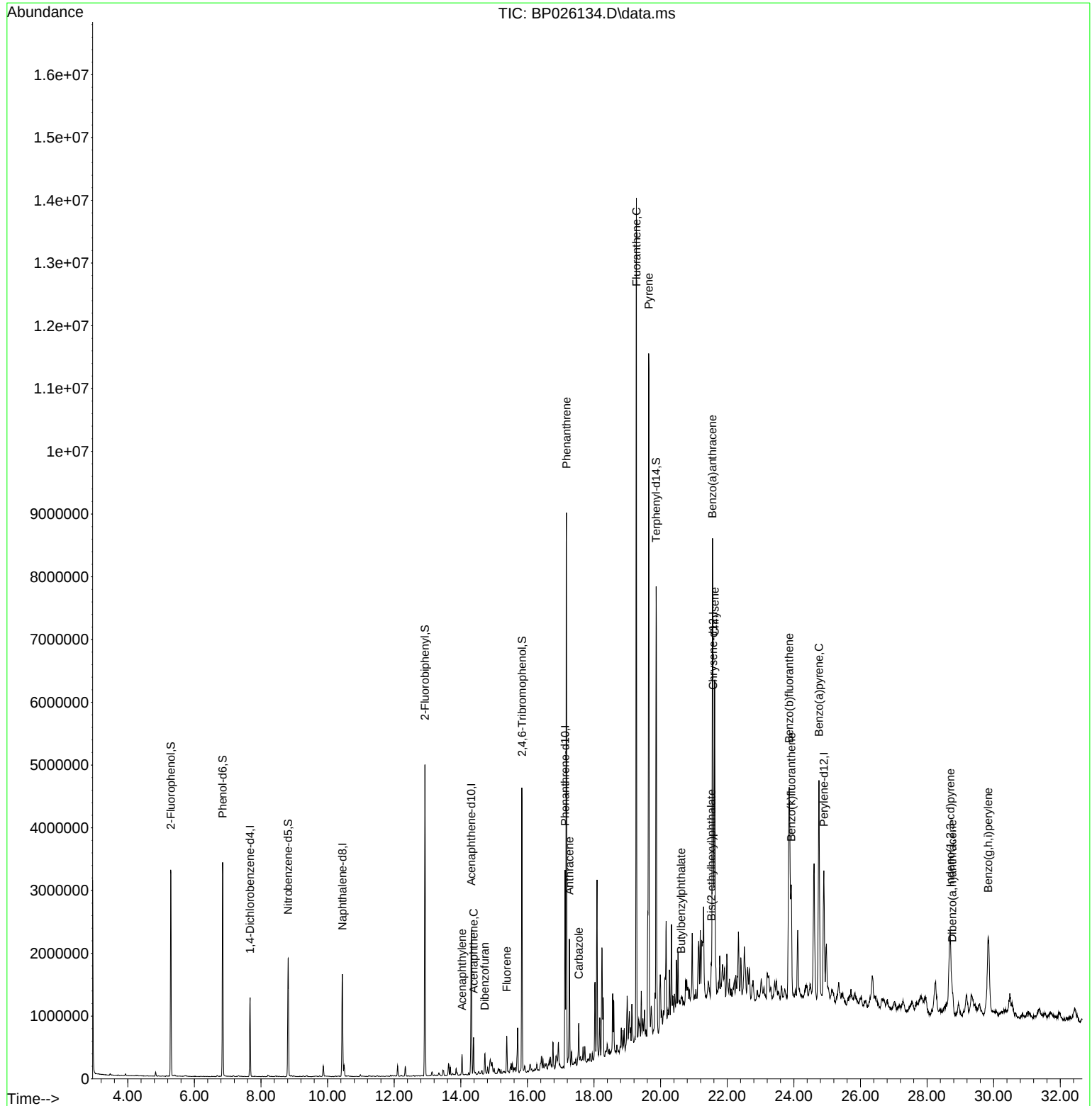
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP111325\
Data File : BP026134.D
Acq On : 13 Nov 2025 19:04
Operator : RC/JU
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Misc :
ALS Vial : 10 Sample Multiplier: 1

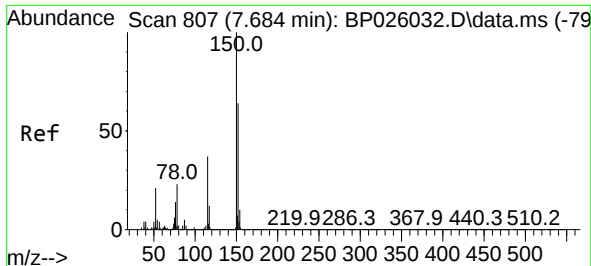
Instrument :
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP102925.M
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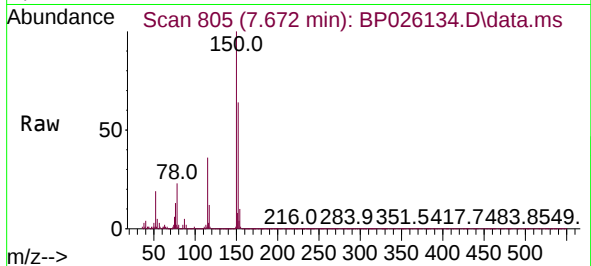
Reviewed By :Jagrut Upadhyay 11/14/2025
Supervised By :Sohil Jodhani 11/14/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.672 min Scan# 807
Delta R.T. -0.018 min
Lab File: BP026134.D
Acq: 13 Nov 2025 19:04

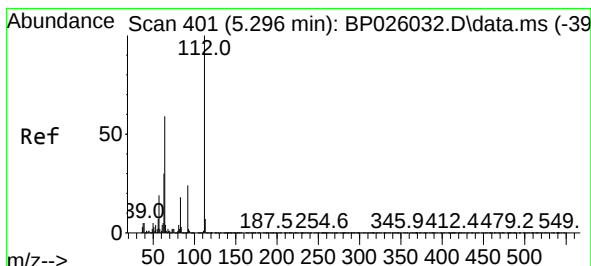
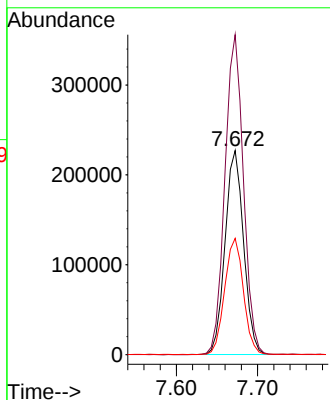
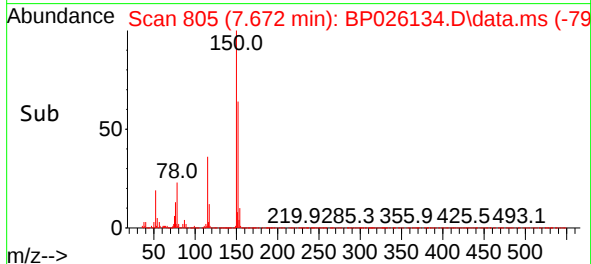
Instrument :
BNA_P
ClientSampleId :
TP-3



Tgt Ion:152 Resp: 359629
Ion Ratio Lower Upper
152 100
150 156.8 125.7 188.5
115 57.0 46.4 69.6

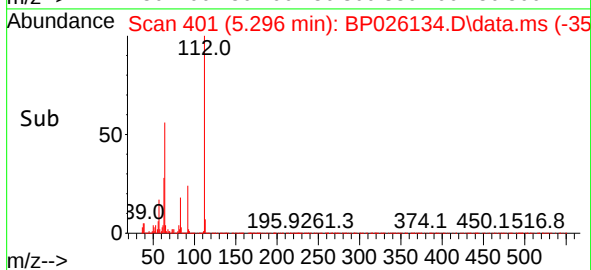
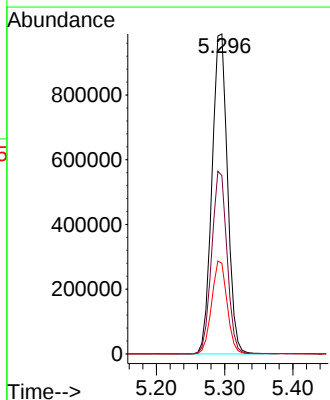
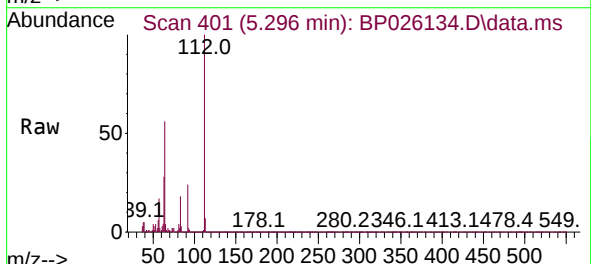
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#5
2-Fluorophenol
Concen: 71.634 ng
RT: 5.296 min Scan# 401
Delta R.T. 0.000 min
Lab File: BP026134.D
Acq: 13 Nov 2025 19:04

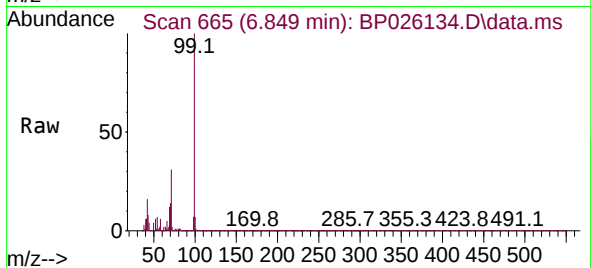
Tgt Ion:112 Resp: 1561227
Ion Ratio Lower Upper
112 100
64 55.7 47.4 71.2
63 28.3 24.2 36.4





#7
Phenol-d6
Concen: 70.815 ng
RT: 6.849 min Scan# 60
Delta R.T. -0.006 min
Lab File: BP026134.D
Acq: 13 Nov 2025 19:04

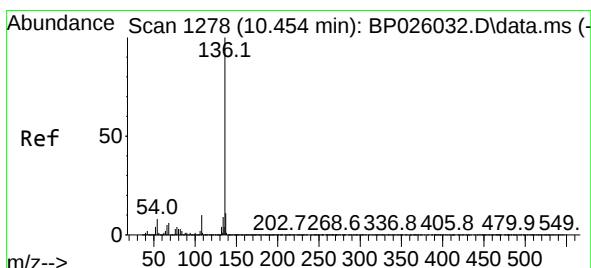
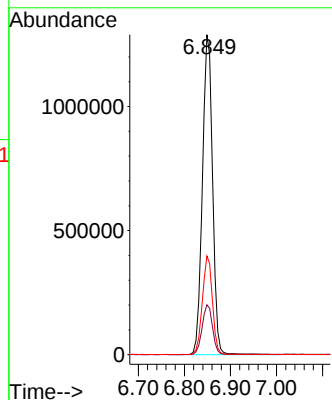
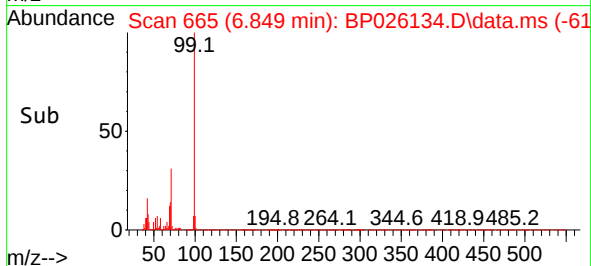
Instrument :
BNA_P
ClientSampleId :
TP-3



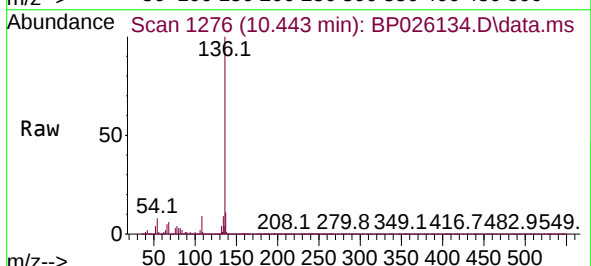
Tgt Ion: 99 Resp: 196440
Ion Ratio Lower Upper
99 100
42 15.6 13.7 20.5
71 30.8 24.4 36.6

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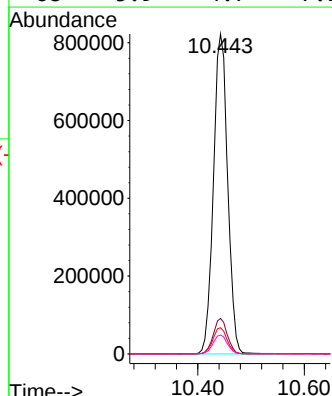
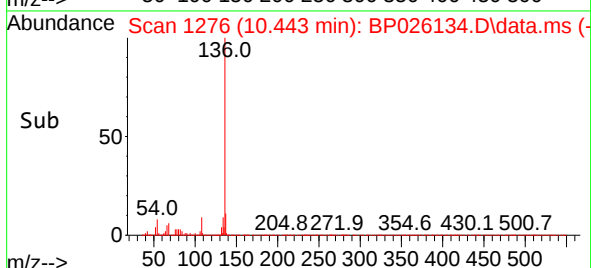
Reviewed By :Jagrut Upadhyay 11/14/2025
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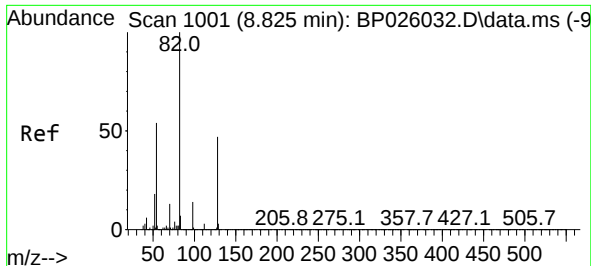


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.443 min Scan# 1276
Delta R.T. -0.011 min
Lab File: BP026134.D
Acq: 13 Nov 2025 19:04



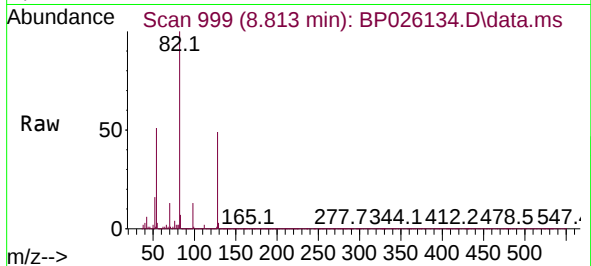
Tgt Ion:136 Resp: 1523905
Ion Ratio Lower Upper
136 100
137 11.1 8.8 13.2
54 8.2 6.6 10.0
68 5.9 4.7 7.1





#23
Nitrobenzene-d5
Concen: 47.105 ng
RT: 8.813 min Scan# 999
Delta R.T. -0.011 min
Lab File: BP026134.D
Acq: 13 Nov 2025 19:04

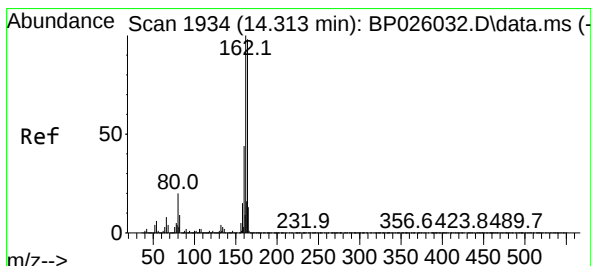
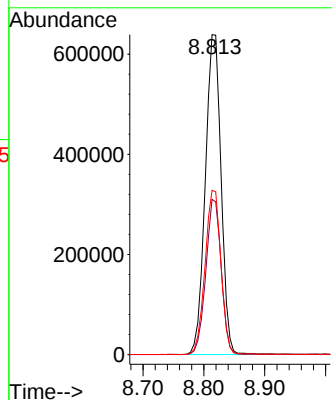
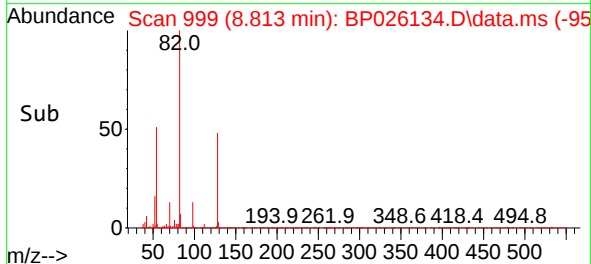
Instrument :
BNA_P
ClientSampleId :
TP-3



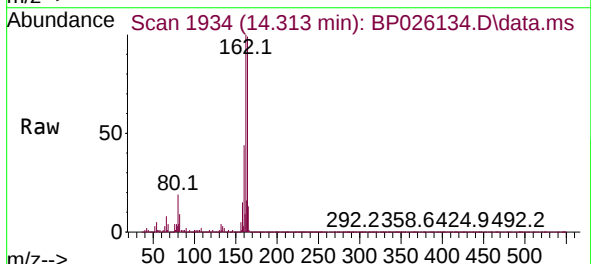
Tgt Ion: 82 Resp: 1151488
Ion Ratio Lower Upper
82 100
128 48.5 37.4 56.0
54 51.3 42.7 64.1

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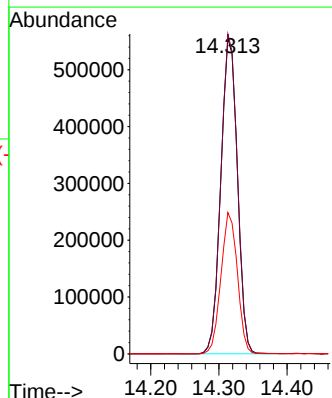
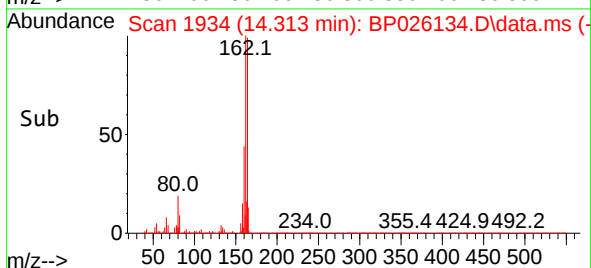
Reviewed By :Jagrut Upadhyay 11/14/2025
Supervised By :Sohil Jodhani 11/14/2025

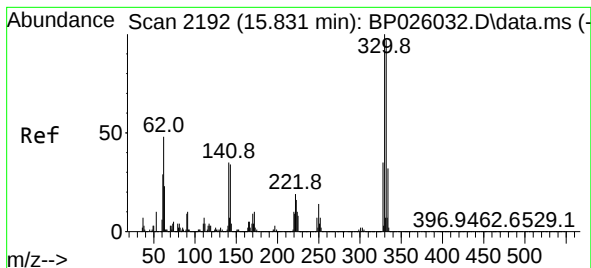


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.313 min Scan# 1934
Delta R.T. -0.006 min
Lab File: BP026134.D
Acq: 13 Nov 2025 19:04



Tgt Ion:164 Resp: 934289
Ion Ratio Lower Upper
164 100
162 101.4 81.5 122.3
160 44.8 36.2 54.4





#42

2,4,6-Tribromophenol

Concen: 77.069 ng

RT: 15.837 min Scan# 2192

Delta R.T. 0.006 min

Lab File: BP026134.D

Acq: 13 Nov 2025 19:04

Instrument :

BNA_P

ClientSampleId :

TP-3

Tgt Ion:330 Resp: 778446

Ion Ratio Lower Upper

330 100

332 97.0 77.3 115.9

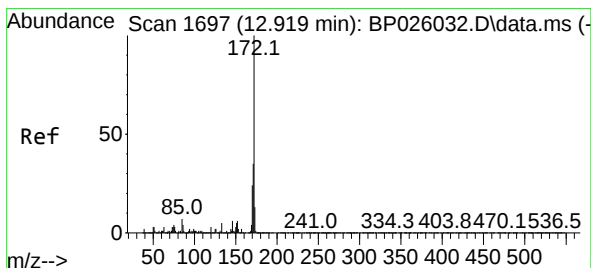
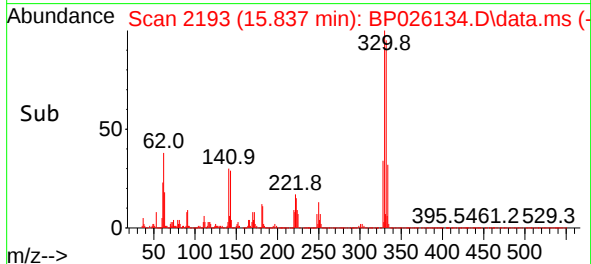
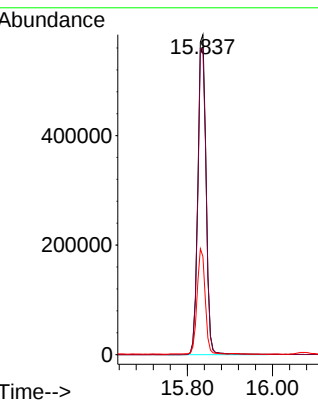
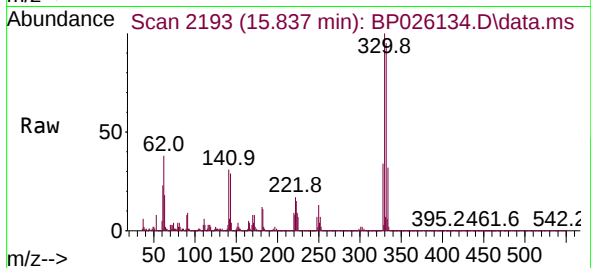
141 32.2 28.6 42.8

Manual Integrations

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Supervised By :Sohil Jodhani 11/14/2025



#45

2-Fluorobiphenyl

Concen: 41.633 ng

RT: 12.925 min Scan# 1698

Delta R.T. -0.006 min

Lab File: BP026134.D

Acq: 13 Nov 2025 19:04

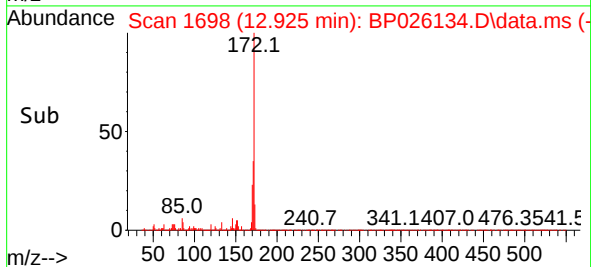
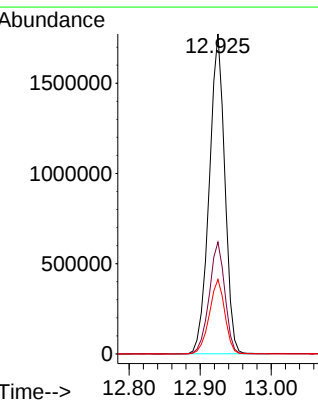
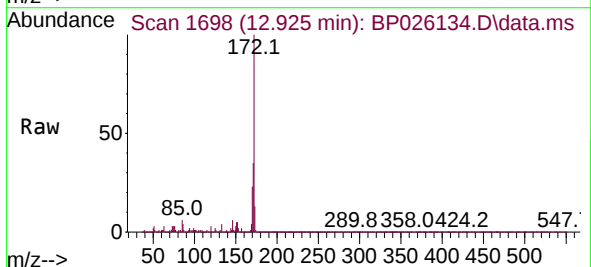
Tgt Ion:172 Resp: 2707014

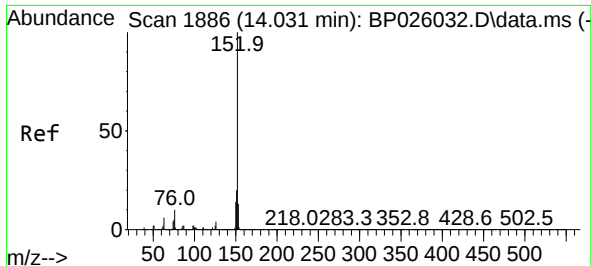
Ion Ratio Lower Upper

172 100

171 35.0 27.9 41.9

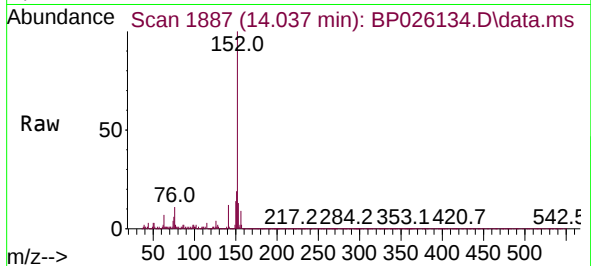
170 23.3 19.0 28.4





#49
Acenaphthylene
Concen: 2.872 ng
RT: 14.037 min Scan# 1886
Delta R.T. 0.001 min
Lab File: BP026134.D
Acq: 13 Nov 2025 19:04

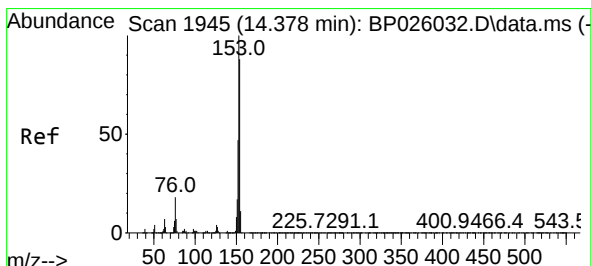
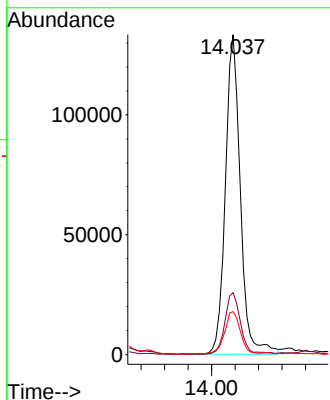
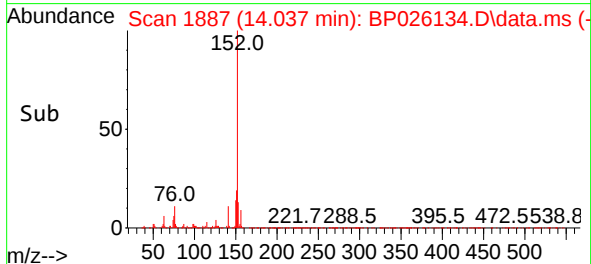
Instrument :
BNA_P
ClientSampleId :
TP-3



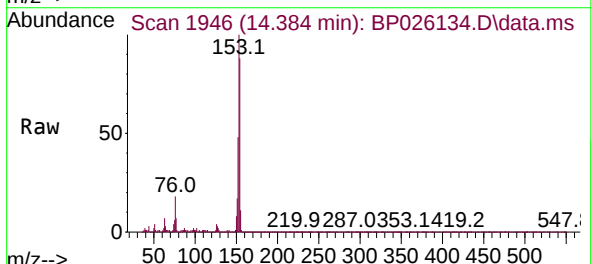
Tgt Ion:152 Resp: 235614
Ion Ratio Lower Upper
152 100
151 19.4 15.9 23.9
153 13.4 10.6 16.0

Manual Integrations
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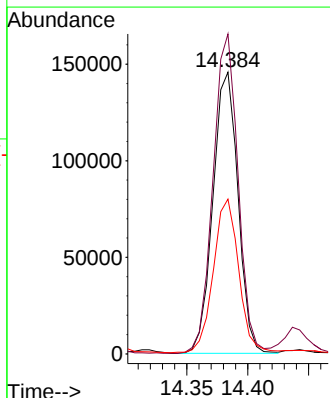
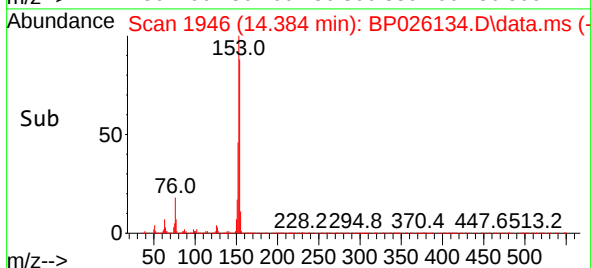
Reviewed By :Jagrut Upadhyay 11/14/2025
Supervised By :Sohil Jodhani 11/14/2025

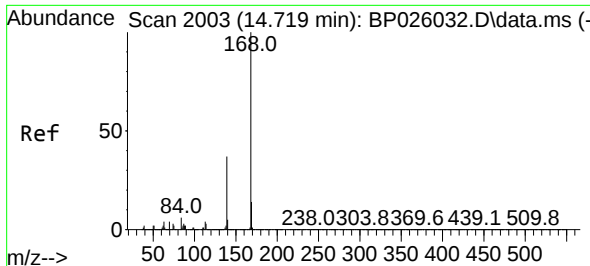


#52
Acenaphthene
Concen: 3.706 ng
RT: 14.384 min Scan# 1946
Delta R.T. 0.001 min
Lab File: BP026134.D
Acq: 13 Nov 2025 19:04



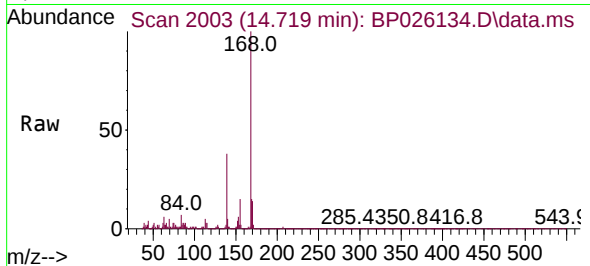
Tgt Ion:154 Resp: 208745
Ion Ratio Lower Upper
154 100
153 113.6 91.0 136.4
152 54.9 42.7 64.1





#55
Dibenzofuran
Concen: 2.114 ng
RT: 14.719 min Scan# 2003
Delta R.T. -0.006 min
Lab File: BP026134.D
Acq: 13 Nov 2025 19:04

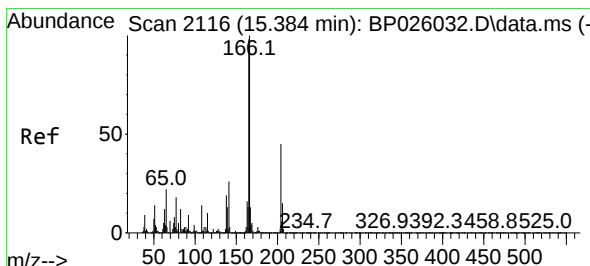
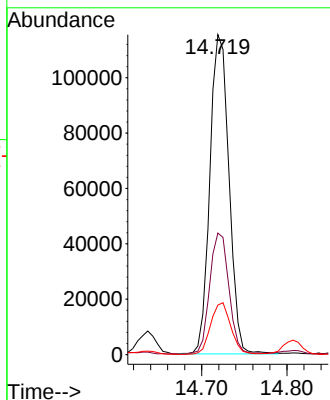
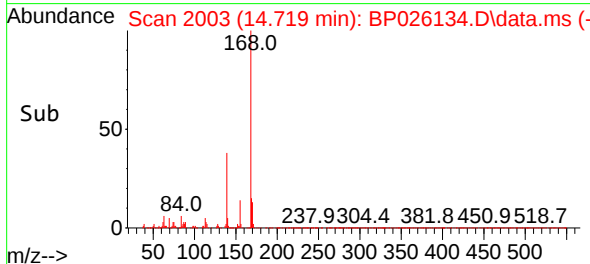
Instrument :
BNA_P
ClientSampleId :
TP-3



Tgt Ion:168 Resp: 179854
Ion Ratio Lower Upper
168 100
139 38.0 29.7 44.5
169 15.5 11.0 16.4

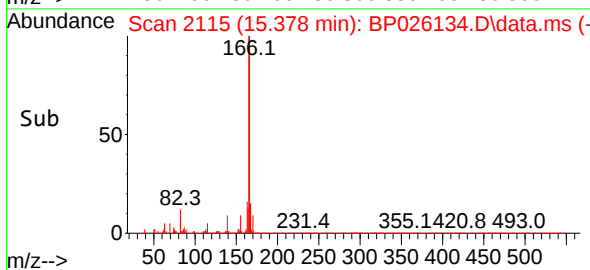
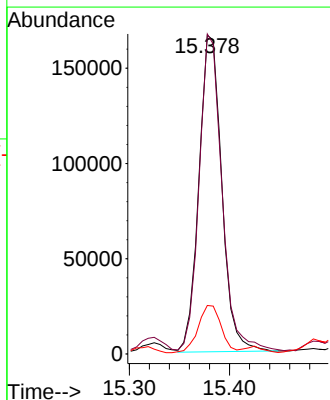
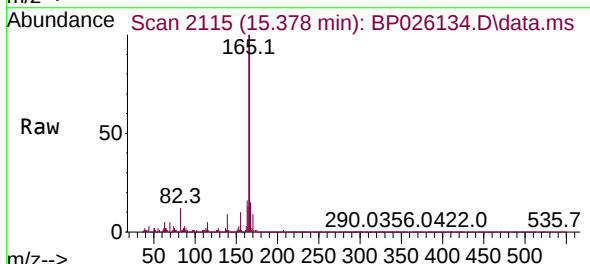
Manual Integrations
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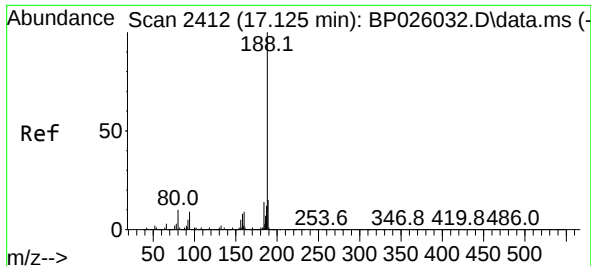
Reviewed By :Jagrut Upadhyay 11/14/2025
Supervised By :Sohil Jodhani 11/14/2025



#58
Fluorene
Concen: 3.947 ng
RT: 15.378 min Scan# 2115
Delta R.T. -0.005 min
Lab File: BP026134.D
Acq: 13 Nov 2025 19:04

Tgt Ion:166 Resp: 263132
Ion Ratio Lower Upper
166 100
165 100.4 78.1 117.1
167 15.2 10.6 16.0





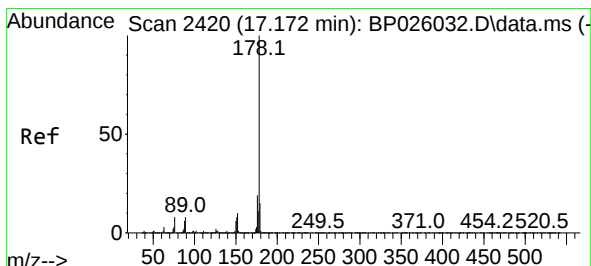
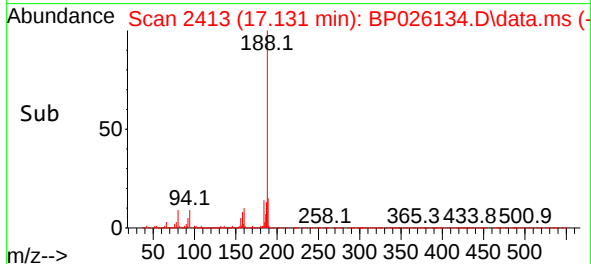
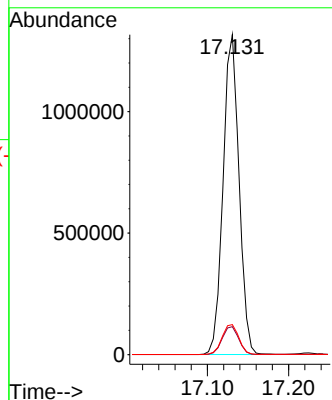
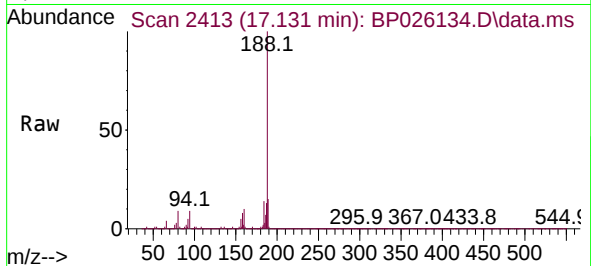
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Phenanthrene-d10
Concen: 20.000 ng
RT: 17.131 min Scan# 2413
Delta R.T. 0.006 min
Lab File: BP026134.D
Acq: 13 Nov 2025 19:04

Instrument :
BNA_P
ClientSampleId :
TP-3

Tgt Ion:188 Resp: 1790812
Ion Ratio Lower Upper
188 100
94 8.7 7.1 10.7
80 9.4 7.9 11.9

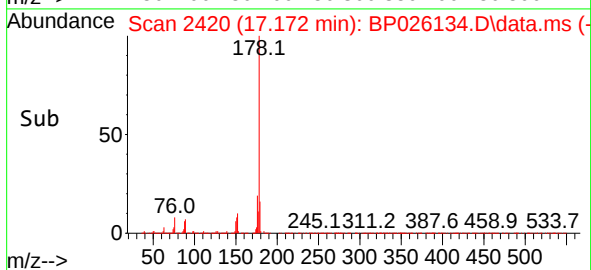
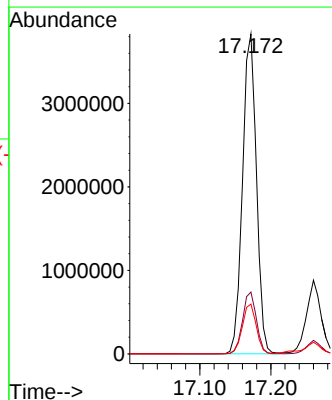
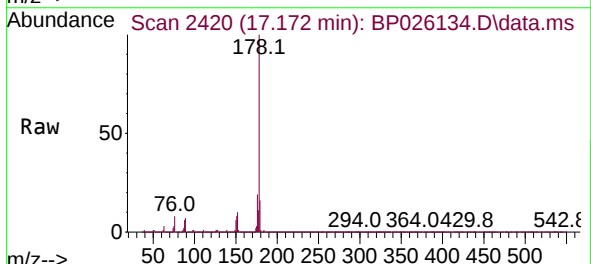
Manual Integrations
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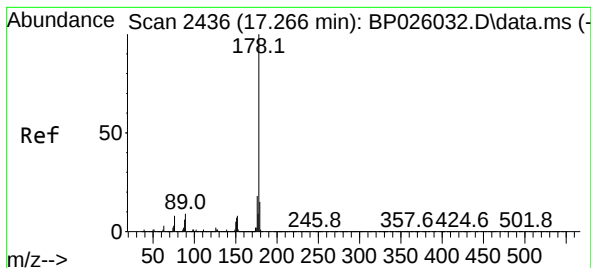
Reviewed By :Jagrut Upadhyay 11/14/2025
Supervised By :Sohil Jodhani 11/14/2025



#71
Phenanthrene
Concen: 49.703 ng
RT: 17.172 min Scan# 2420
Delta R.T. 0.000 min
Lab File: BP026134.D
Acq: 13 Nov 2025 19:04

Tgt Ion:178 Resp: 5180759
Ion Ratio Lower Upper
178 100
176 19.3 15.3 22.9
179 15.6 12.3 18.5





#72

Anthracene

Concen: 11.934 ng

RT: 17.260 min Scan# 2436

Delta R.T. 0.000 min

Lab File: BP026134.D

Acq: 13 Nov 2025 19:04

Instrument :

BNA_P

ClientSampleId :

TP-3

Tgt Ion:178 Resp: 1233096

Ion Ratio Lower Upper

178 100

176 18.3 14.8 22.2

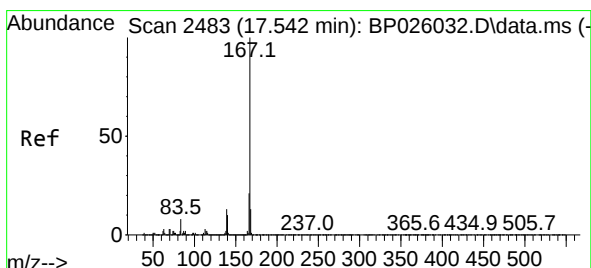
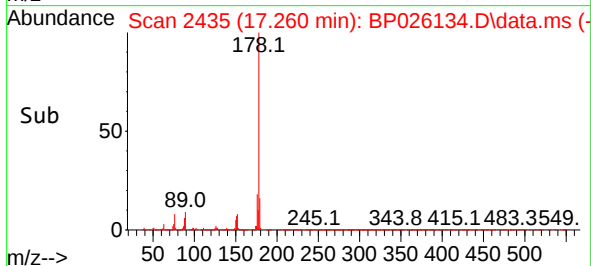
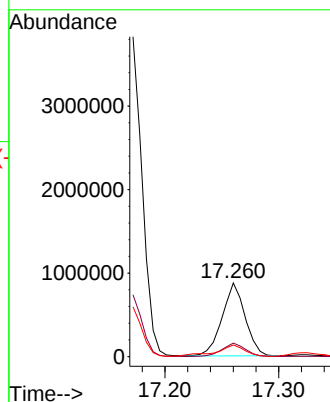
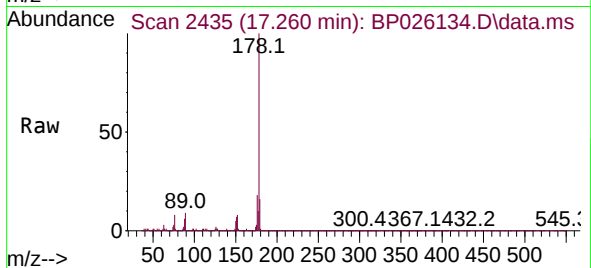
179 15.7 12.2 18.4

Manual Integrations

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Reviewed By :Jagrut Upadhyay 11/14/2025

Supervised By :Sohil Jodhani 11/14/2025



#73

Carbazole

Concen: 4.473 ng

RT: 17.542 min Scan# 2483

Delta R.T. 0.006 min

Lab File: BP026134.D

Acq: 13 Nov 2025 19:04

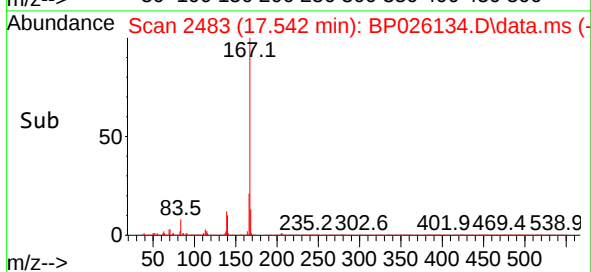
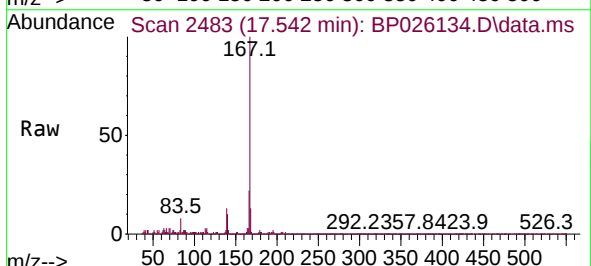
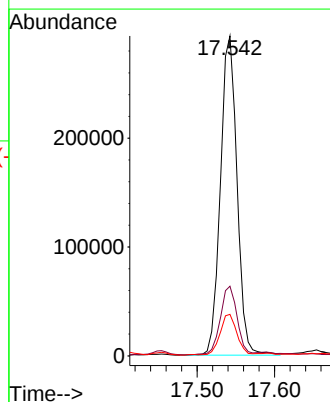
Tgt Ion:167 Resp: 437466

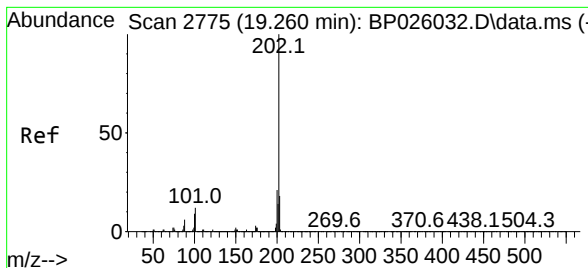
Ion Ratio Lower Upper

167 100

166 21.8 17.1 25.7

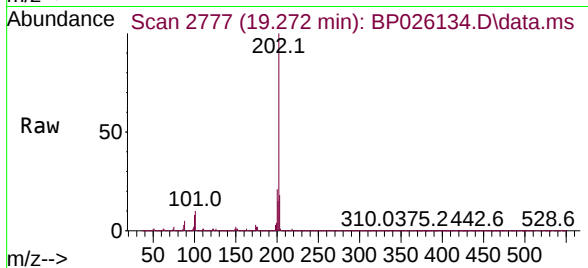
139 13.0 10.2 15.2





#75
Fluoranthene
Concen: 62.590 ng
RT: 19.272 min Scan# 21
Delta R.T. 0.012 min
Lab File: BP026134.D
Acq: 13 Nov 2025 19:04

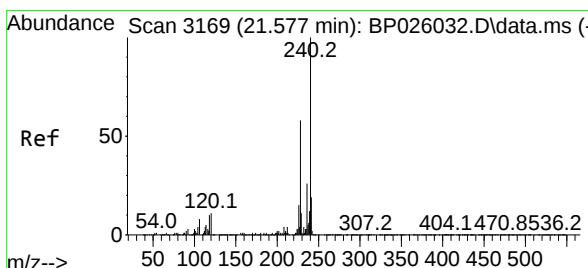
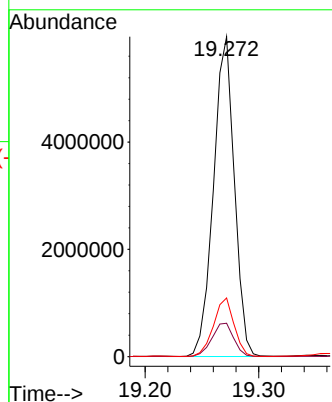
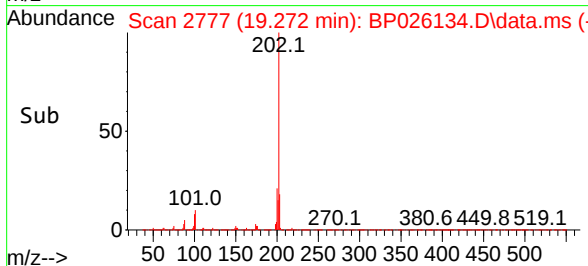
Instrument :
BNA_P
ClientSampleId :
TP-3



Tgt Ion:202 Resp: 7610350
Ion Ratio Lower Upper
202 100
101 10.5 0.0 32.1
203 18.3 0.0 37.6

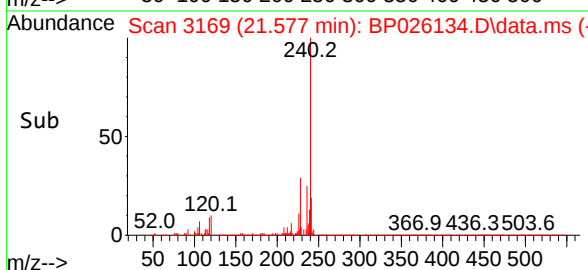
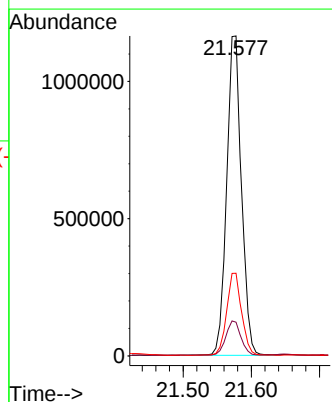
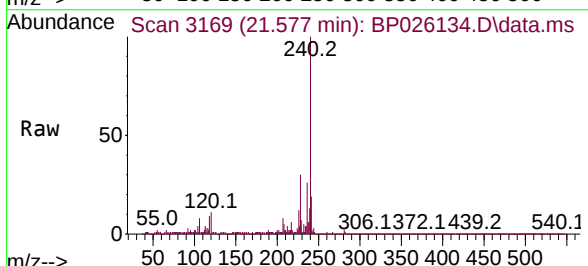
Manual Integrations
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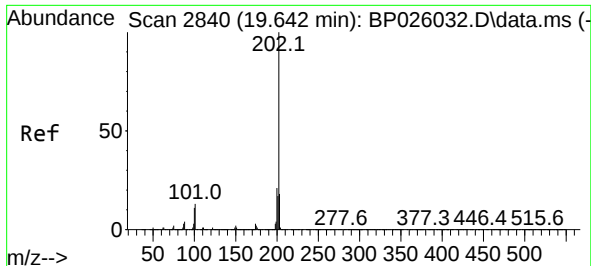
Reviewed By :Jagrut Upadhyay 11/14/2025
Supervised By :Sohil Jodhani 11/14/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.577 min Scan# 3169
Delta R.T. 0.012 min
Lab File: BP026134.D
Acq: 13 Nov 2025 19:04

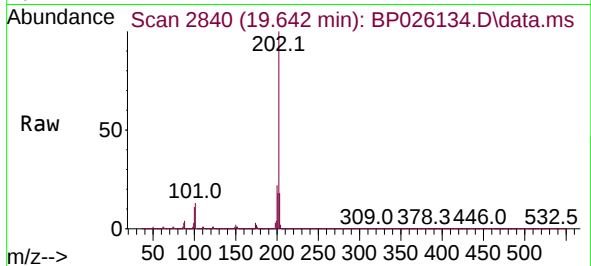
Tgt Ion:240 Resp: 1749682
Ion Ratio Lower Upper
240 100
120 10.5 8.9 13.3
236 25.8 20.6 31.0





#78
Pyrene
Concen: 61.565 ng
RT: 19.642 min Scan# 2840
Delta R.T. 0.006 min
Lab File: BP026134.D
Acq: 13 Nov 2025 19:04

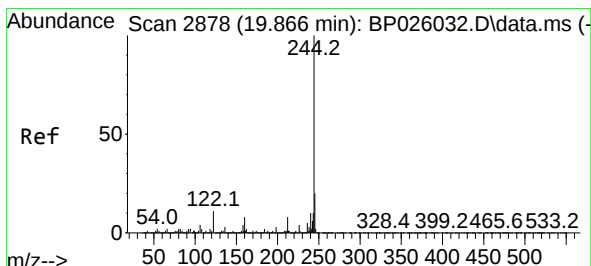
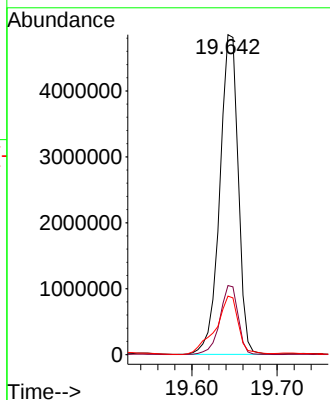
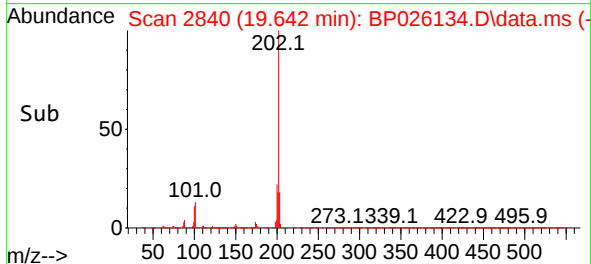
Instrument :
BNA_P
ClientSampleId :
TP-3



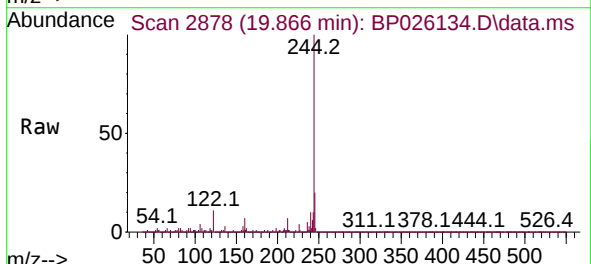
Tgt Ion:202 Resp: 7285558
Ion Ratio Lower Upper
202 100
200 21.6 16.6 25.0
203 18.3 14.0 21.0

Manual Integrations
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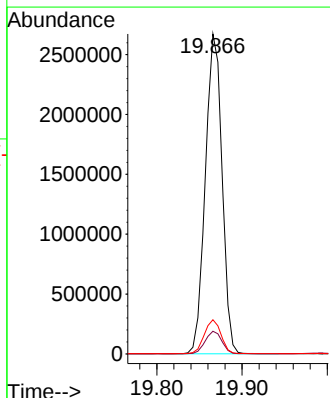
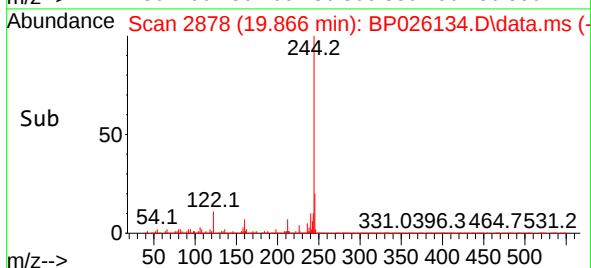
Reviewed By :Jagrut Upadhyay 11/14/2025
Supervised By :Sohil Jodhani 11/14/2025

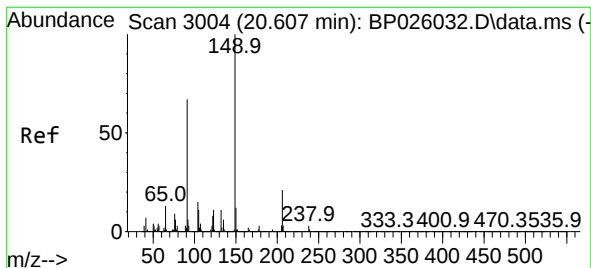


#79
Terphenyl-d14
Concen: 42.262 ng
RT: 19.866 min Scan# 2878
Delta R.T. 0.000 min
Lab File: BP026134.D
Acq: 13 Nov 2025 19:04



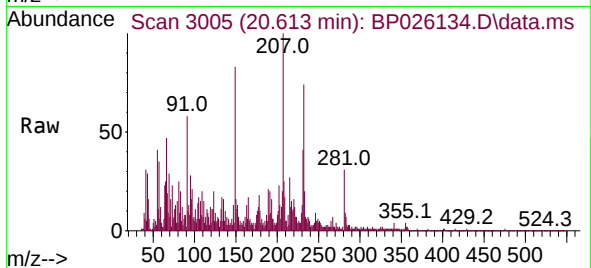
Tgt Ion:244 Resp: 3639559
Ion Ratio Lower Upper
244 100
212 7.1 6.0 9.0
122 10.7 9.0 13.6





#80
Butylbenzylphthalate
Concen: 4.529 ng
RT: 20.613 min Scan# 3005
Delta R.T. 0.006 min
Lab File: BP026134.D
Acq: 13 Nov 2025 19:04

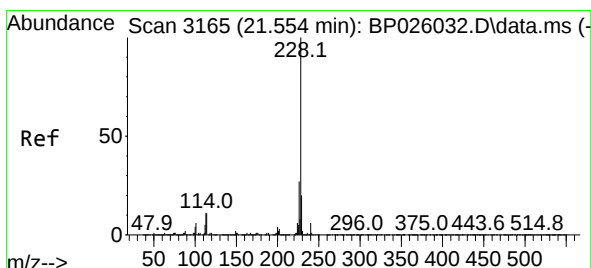
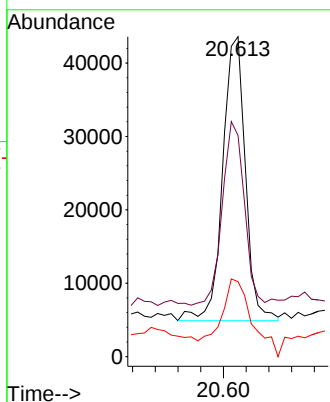
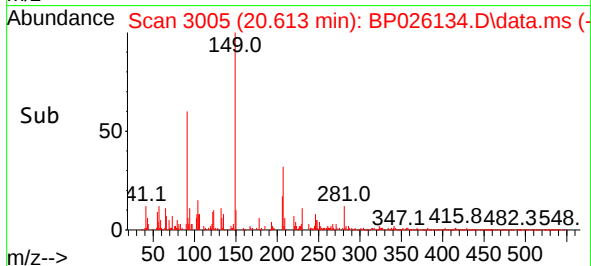
Instrument :
BNA_P
ClientSampleId :
TP-3



Tgt Ion:149 Resp: 53826
Ion Ratio Lower Upper
149 100
91 69.1 53.5 80.3
206 23.4 16.6 25.0

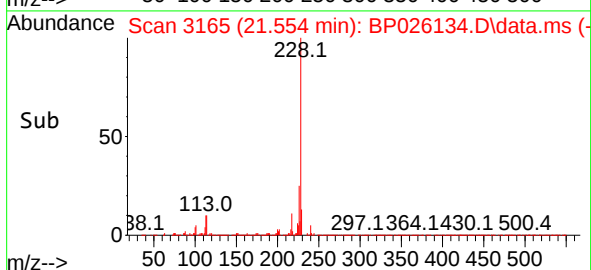
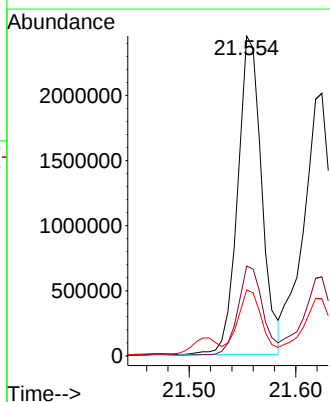
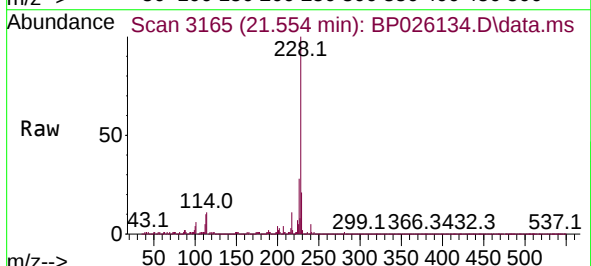
Manual Integrations
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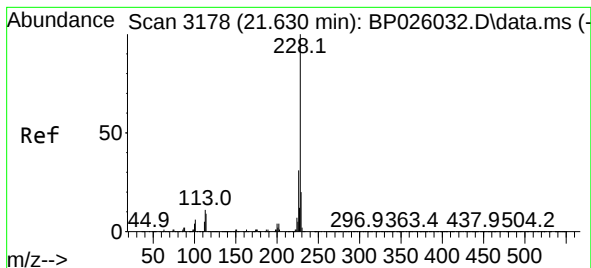
Reviewed By :Jagrut Upadhyay 11/14/2025
Supervised By :Sohil Jodhani 11/14/2025



#81
Benzo(a)anthracene
Concen: 31.771 ng
RT: 21.554 min Scan# 3165
Delta R.T. 0.006 min
Lab File: BP026134.D
Acq: 13 Nov 2025 19:04

Tgt Ion:228 Resp: 3819986
Ion Ratio Lower Upper
228 100
226 28.1 21.7 32.5
229 20.7 15.8 23.8





#83

Chrysene

Concen: 31.945 ng

RT: 21.625 min Scan# 3177

Delta R.T. 0.006 min

Lab File: BP026134.D

Acq: 13 Nov 2025 19:04

Instrument :

BNA_P

ClientSampleId :

TP-3

Tgt Ion:228 Resp: 363833

Ion Ratio Lower Upper

228 100

226 30.1 24.4 36.6

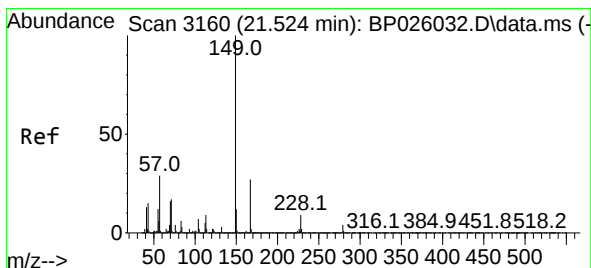
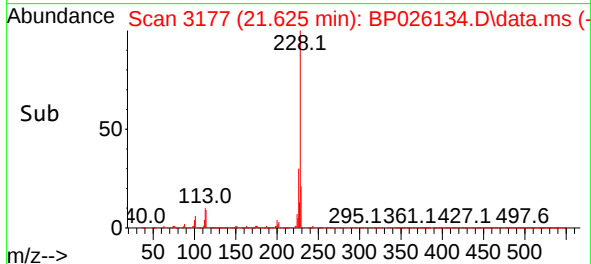
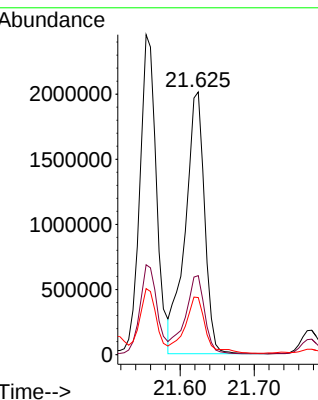
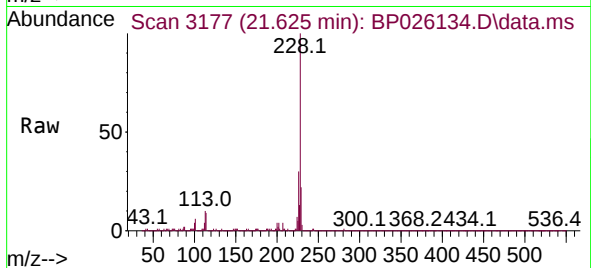
229 21.7 16.0 24.0

Manual Integrations

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Reviewed By :Jagrut Upadhyay 11/14/2025

Supervised By :Sohil Jodhani 11/14/2025



#84

Bis(2-ethylhexyl)phthalate

Concen: 3.908 ng

RT: 21.525 min Scan# 3160

Delta R.T. 0.007 min

Lab File: BP026134.D

Acq: 13 Nov 2025 19:04

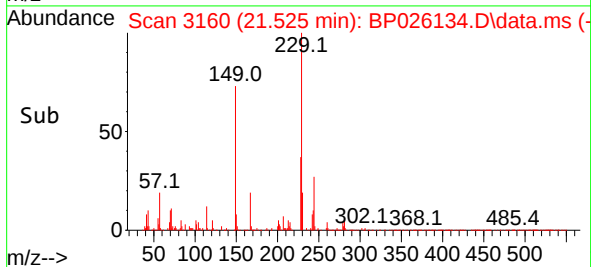
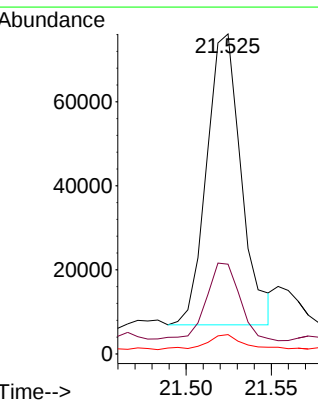
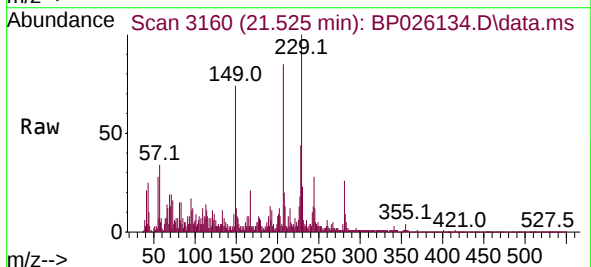
Tgt Ion:149 Resp: 97739

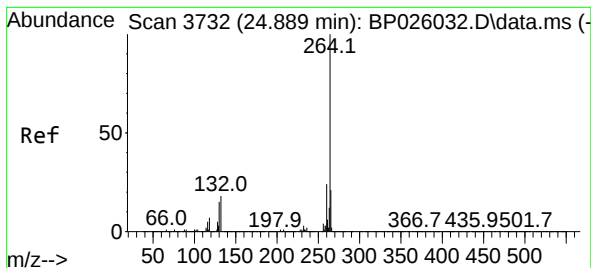
Ion Ratio Lower Upper

149 100

167 28.1 21.5 32.3

279 6.0 3.0 4.6#





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.901 min Scan# 31

Delta R.T. 0.018 min

Lab File: BP026134.D

Acq: 13 Nov 2025 19:04

Instrument :

BNA_P

ClientSampleId :

TP-3

Tgt Ion:264 Resp: 1978335

Ion Ratio Lower Upper

264 100

260 24.1 19.1 28.7

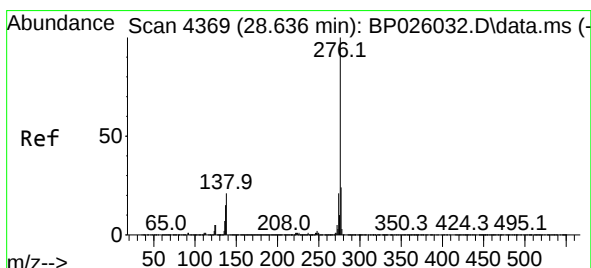
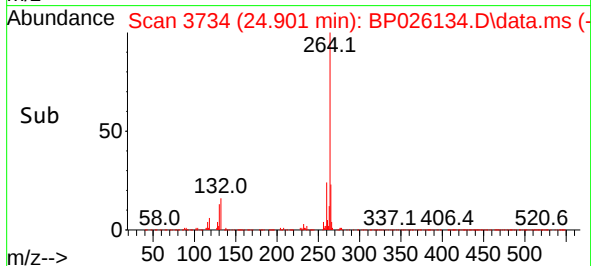
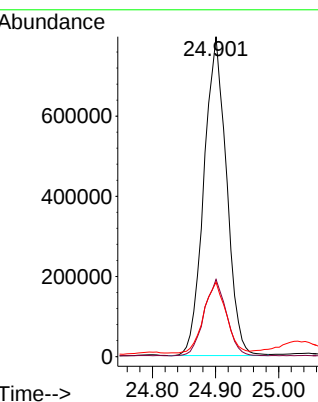
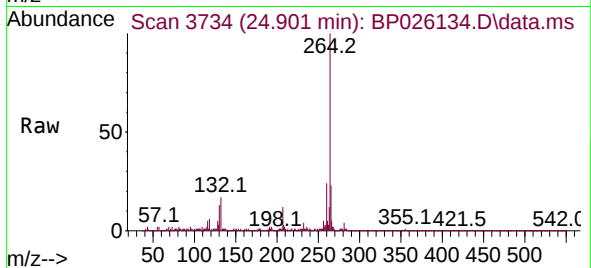
265 23.2 17.2 25.8

Manual Integrations

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Reviewed By :Jagrut Upadhyay 11/14/2025

Supervised By :Sohil Jodhani 11/14/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 16.688 ng

RT: 28.695 min Scan# 4379

Delta R.T. 0.036 min

Lab File: BP026134.D

Acq: 13 Nov 2025 19:04

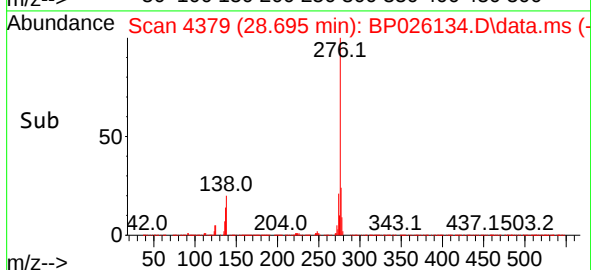
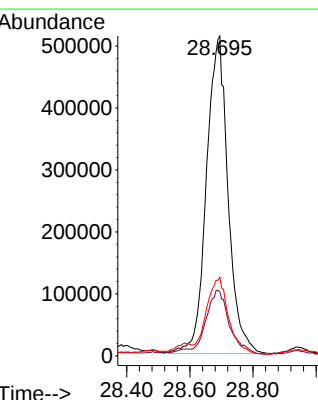
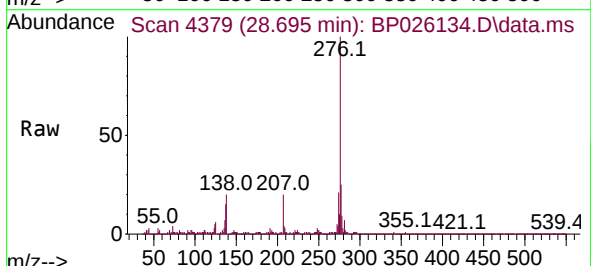
Tgt Ion:276 Resp: 2437315

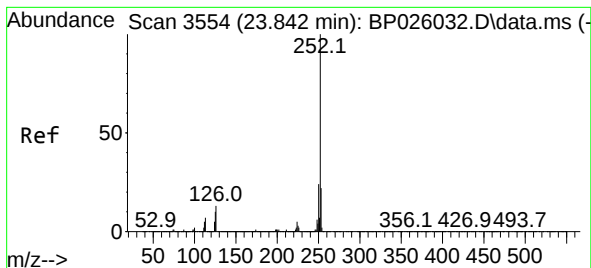
Ion Ratio Lower Upper

276 100

138 21.5 13.2 19.8#

277 24.4 16.3 24.5





#88

Benzo(b)fluoranthene

Concen: 36.935 ng

RT: 23.860 min Scan# 3554

Delta R.T. 0.012 min

Lab File: BP026134.D

Acq: 13 Nov 2025 19:04

Instrument :

BNA_P

ClientSampleId :

TP-3

Tgt Ion:252 Resp: 4536159

Ion Ratio Lower Upper

252 100

253 23.2 17.6 26.4

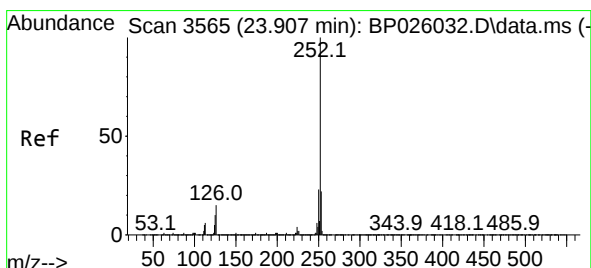
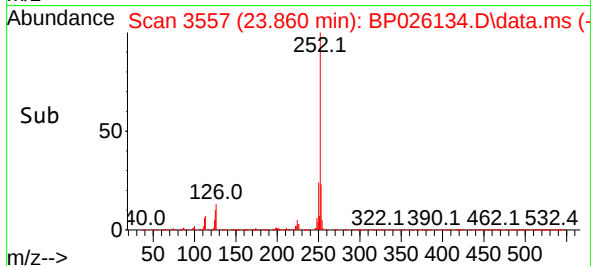
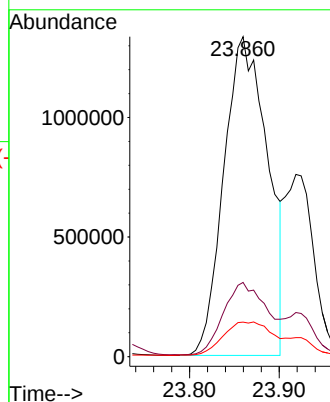
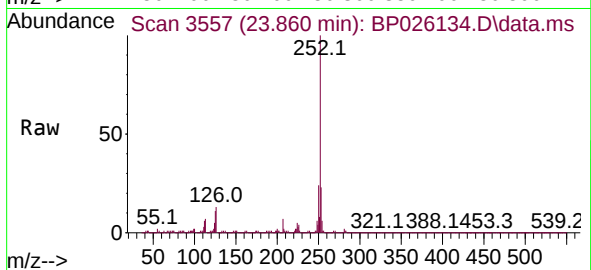
125 10.8 8.1 12.1

Manual Integrations

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Reviewed By :Jagrut Upadhyay 11/14/2025

Supervised By :Sohil Jodhani 11/14/2025



#89

Benzo(k)fluoranthene

Concen: 13.315 ng m

RT: 23.919 min Scan# 3567

Delta R.T. -0.006 min

Lab File: BP026134.D

Acq: 13 Nov 2025 19:04

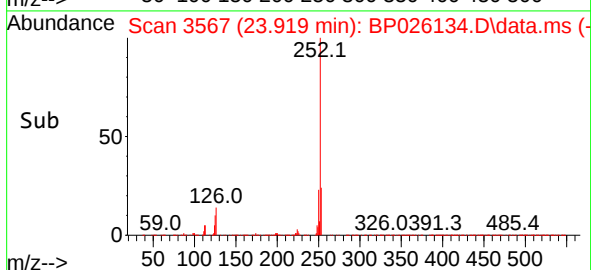
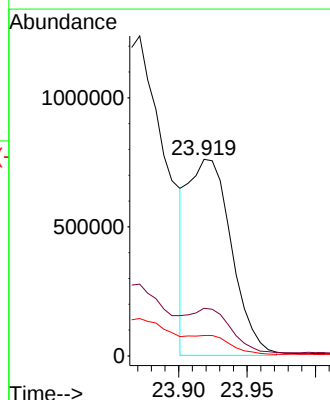
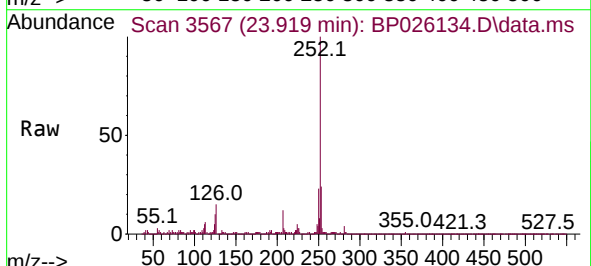
Tgt Ion:252 Resp: 1669866

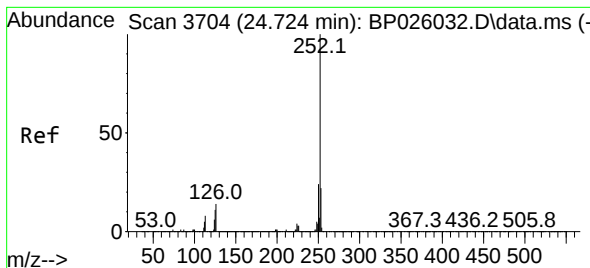
Ion Ratio Lower Upper

252 100

253 24.2 17.5 26.3

125 10.4 8.1 12.1





#90

Benzo(a)pyrene

Concen: 31.110 ng

RT: 24.754 min Scan# 31

Delta R.T. 0.012 min

Lab File: BP026134.D

Acq: 13 Nov 2025 19:04

Instrument :

BNA_P

ClientSampleId :

TP-3

Tgt Ion:252 Resp: 351082

Ion Ratio Lower Upper

252 100

253 23.0 17.3 25.9

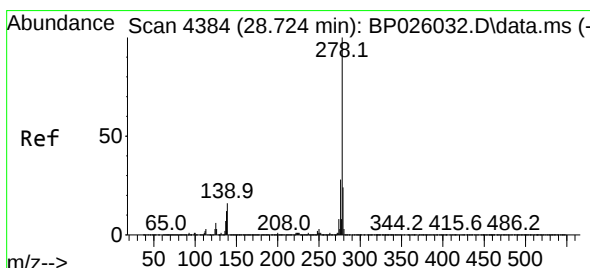
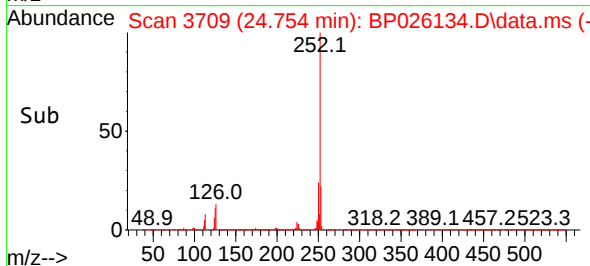
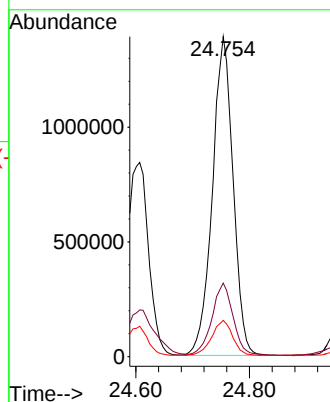
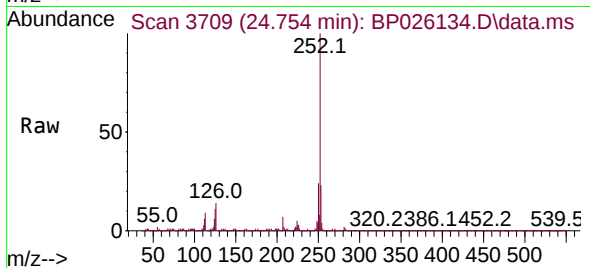
125 11.3 9.1 13.7

Manual Integrations

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Reviewed By :Jagrut Upadhyay 11/14/2025

Supervised By :Sohil Jodhani 11/14/2025



#91

Dibenzo(a,h)anthracene

Concen: 5.119 ng

RT: 28.754 min Scan# 4389

Delta R.T. 0.006 min

Lab File: BP026134.D

Acq: 13 Nov 2025 19:04

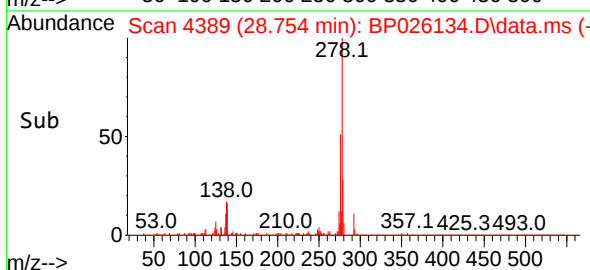
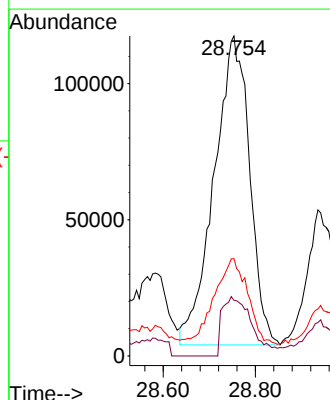
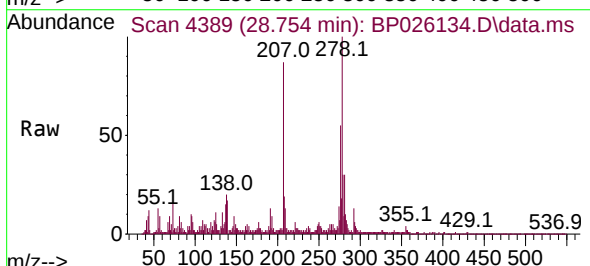
Tgt Ion:278 Resp: 608410

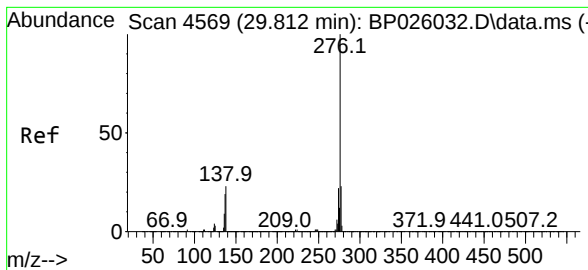
Ion Ratio Lower Upper

278 100

139 17.4 13.0 19.6

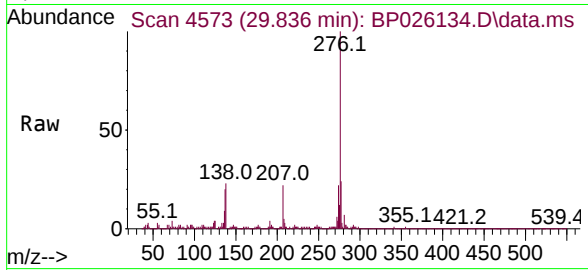
279 30.4 18.9 28.3#





#92
 Benzo(g,h,i)perylene
 Concen: 20.309 ng
 RT: 29.836 min Scan# 4573
 Delta R.T. 0.006 min
 Lab File: BP026134.D
 Acq: 13 Nov 2025 19:04

Instrument :
 BNA_P
 ClientSampleId :
 TP-3



Tgt Ion: 276 Resp: 2322818

Ion	Ratio	Lower	Upper
276	100		
277	24.2	18.5	27.7
138	22.7	18.1	27.1

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 11/14/2025
 Supervised By :Sohil Jodhani 11/14/2025

