

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP100125\
 Data File : BP025911.D
 Acq On : 01 Oct 2025 21:58
 Operator : CG/JU
 Sample : Q3256-05 5X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SOIL-PILE-2-WC

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 10/03/2025
 Supervised By :Jagrut Upadhyay 10/03/2025

Quant Time: Oct 02 10:40:56 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	7.743	152	225670	20.000	ng	-0.02
21) Naphthalene-d8	10.507	136	858656	20.000	ng	-0.02
39) Acenaphthene-d10	14.354	164	538090	20.000	ng	-0.02
64) Phenanthrene-d10	17.154	188	996821	20.000	ng	-0.03
76) Chrysene-d12	21.595	240	963525	20.000	ng	-0.05
86) Perylene-d12	24.948	264	1118861	20.000	ng	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.384	112	181766	12.996	ng	0.00
7) Phenol-d6	6.960	99	218361	11.746	ng	0.01
23) Nitrobenzene-d5	8.896	82	144589	7.428	ng	0.00
42) 2,4,6-Tribromophenol	15.872	330	88502	13.186	ng	-0.04
45) 2-Fluorobiphenyl	12.966	172	337654	8.355	ng	-0.02
79) Terphenyl-d14	19.877	244	459404	8.577	ng	-0.04
Target Compounds						Qvalue
31) Naphthalene	10.560	128	322053	6.956	ng	99
37) 2-Methylnaphthalene	12.160	142	412531	13.873	ng	97
38) 1-Methylnaphthalene	12.384	142	455685	14.370	ng	98
49) Acenaphthylene	14.078	152	695066	13.489	ng	97
52) Acenaphthene	14.425	154	183686	6.181	ng	99
55) Dibenzofuran	14.760	168	165996	3.427	ng	# 88
58) Fluorene	15.419	166	558903	14.513	ng	99
71) Phenanthrene	17.195	178	5248975	92.827	ng	99
72) Anthracene	17.289	178	1157071	20.168	ng	99
73) Carbazole	17.572	167	267441	5.014	ng	99
75) Fluoranthene	19.283	202	4634599	68.341	ng	98
78) Pyrene	19.666	202	5673212	88.242	ng	99
81) Benzo(a)anthracene	21.571	228	2437936	36.958	ng	97
83) Chrysene	21.648	228	2628337	41.799	ng	97
87) Indeno(1,2,3-cd)pyrene	28.759	276	1149512	14.128	ng	# 82
88) Benzo(b)fluoranthene	23.889	252	2425933	35.456	ng	99
89) Benzo(k)fluoranthene	23.942	252	576091m	8.251	ng	
90) Benzo(a)pyrene	24.777	252	1857660	27.725	ng	97
91) Dibenzo(a,h)anthracene	28.789	278	341554	5.130	ng	# 88
92) Benzo(g,h,i)perylene	29.924	276	1191806	18.201	ng	98

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

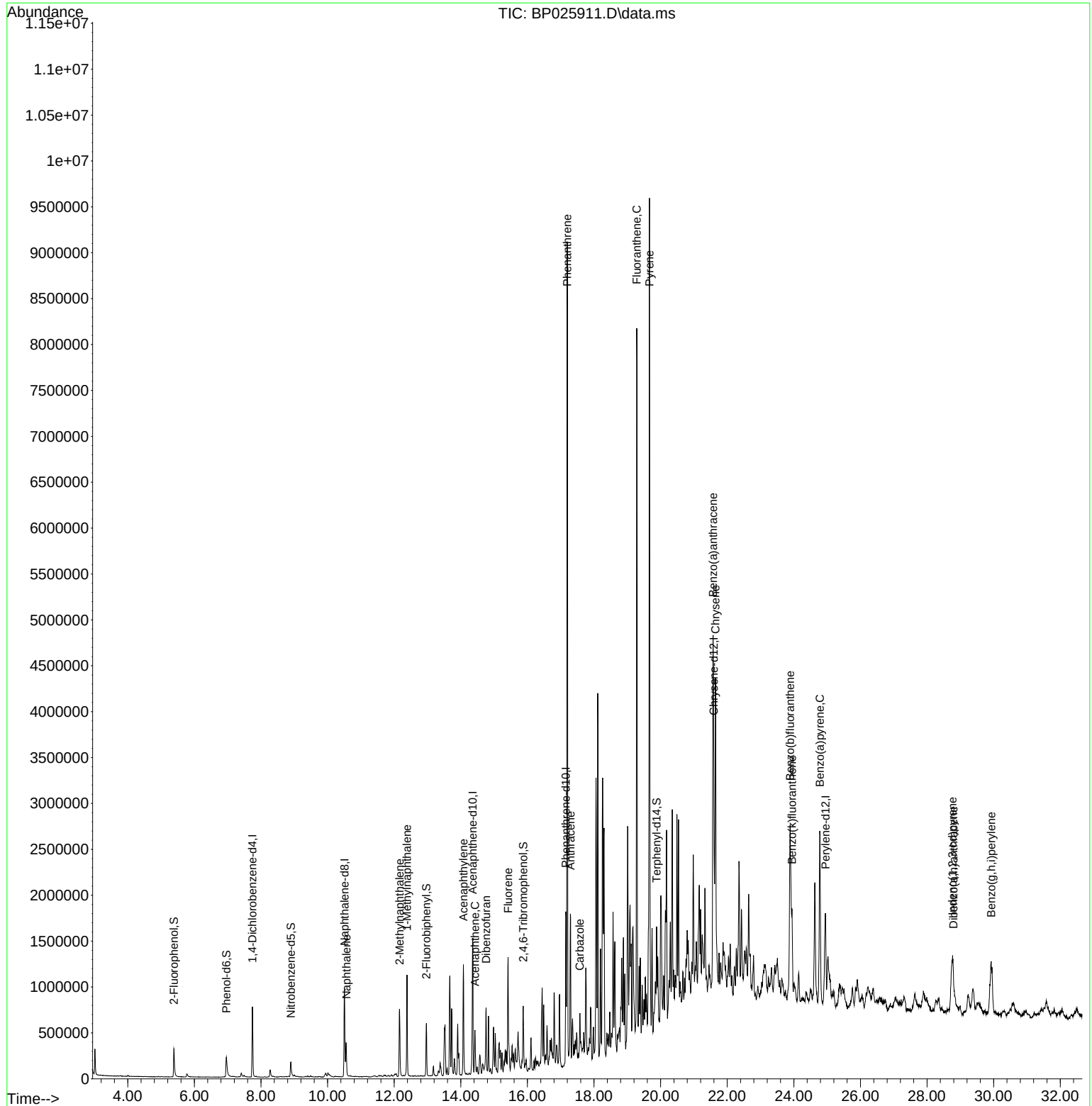
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP100125\
Data File : BP025911.D
Acq On : 01 Oct 2025 21:58
Operator : CG/JU
Sample : Q3256-05 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

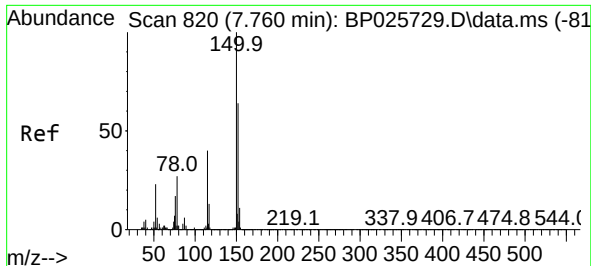
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-2-WC

Manual Integrations
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Supervised By :Jagrut Upadhyay 10/03/2025

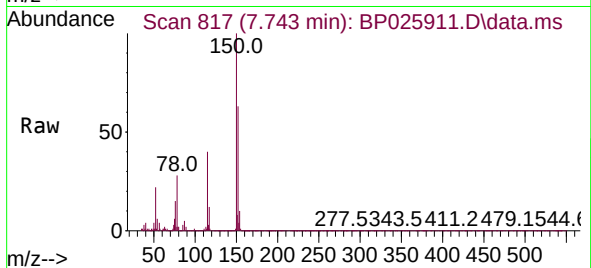
Quant Time: Oct 02 10:40:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP091225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 16:45:04 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.743 min Scan# 81
Delta R.T. -0.017 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

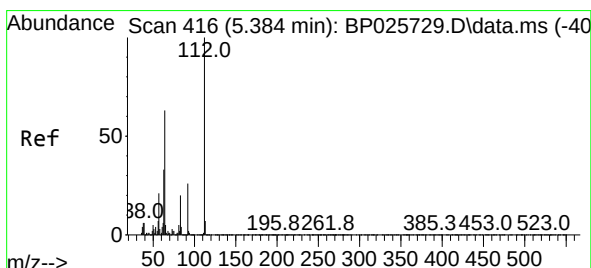
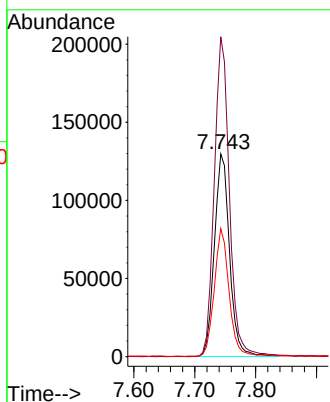
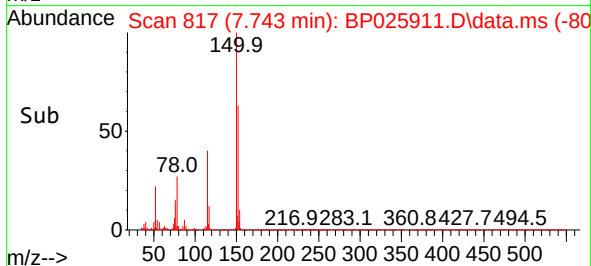
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-2-WC



Tgt Ion:152 Resp: 225676
Ion Ratio Lower Upper
152 100
150 157.9 124.3 186.5
115 63.1 50.3 75.5

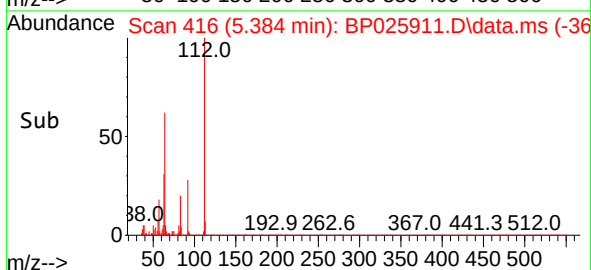
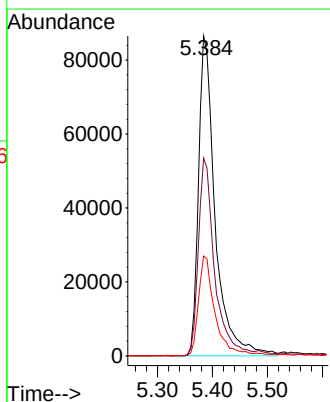
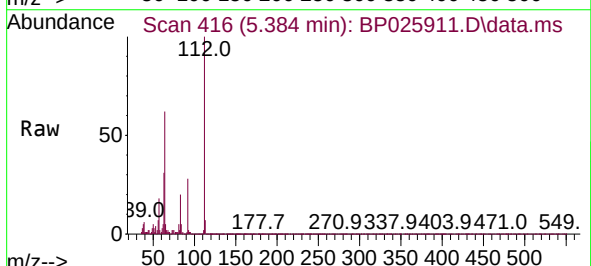
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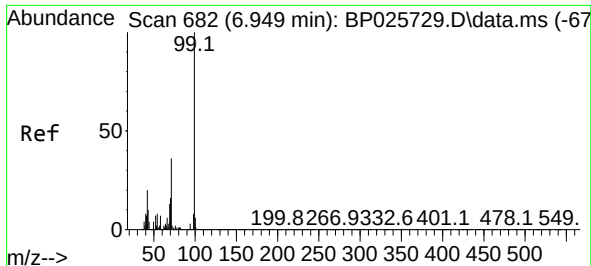
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



#5
2-Fluorophenol
Concen: 12.996 ng
RT: 5.384 min Scan# 416
Delta R.T. -0.000 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

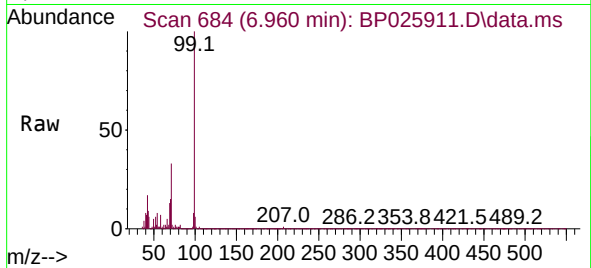
Tgt Ion:112 Resp: 181766
Ion Ratio Lower Upper
112 100
64 61.8 50.2 75.4
63 31.3 26.7 40.1





#7
Phenol-d6
Concen: 11.746 ng
RT: 6.960 min Scan# 684
Delta R.T. 0.012 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

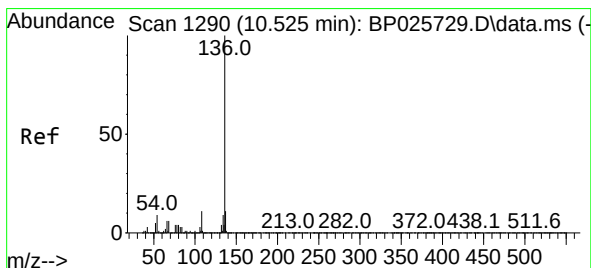
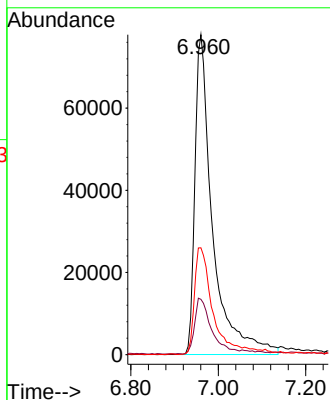
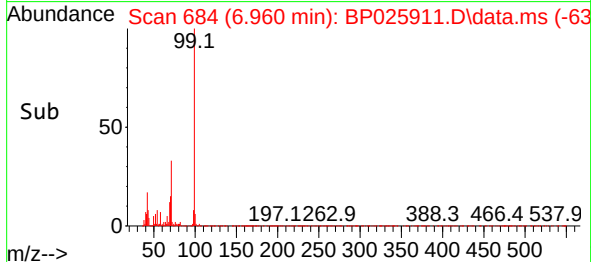
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-2-WC



Tgt Ion: 99 Resp: 21836
Ion Ratio Lower Upper
99 100
42 17.3 15.6 23.4
71 33.4 28.6 43.0

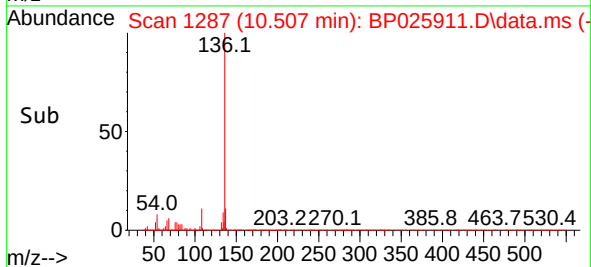
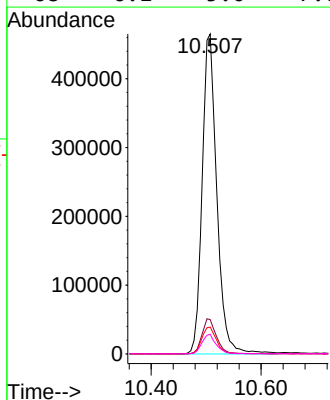
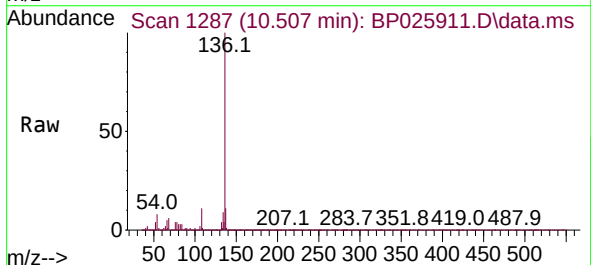
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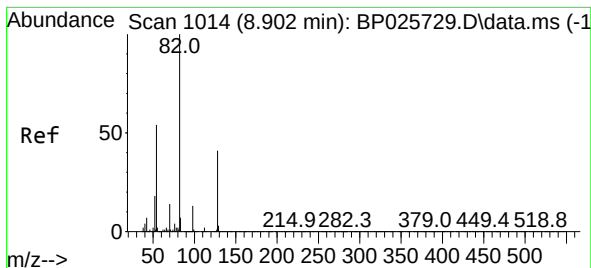
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.507 min Scan# 1287
Delta R.T. -0.018 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

Tgt Ion:136 Resp: 858656
Ion Ratio Lower Upper
136 100
137 10.7 8.7 13.1
54 8.4 7.5 11.3
68 6.1 5.0 7.6





#23

Nitrobenzene-d5

Concen: 7.428 ng

RT: 8.896 min Scan# 1014

Delta R.T. -0.006 min

Lab File: BP025911.D

Acq: 01 Oct 2025 21:58

Instrument :

BNA_P

ClientSampleId :

SOIL-PILE-2-WC

Tgt Ion: 82 Resp: 144589

Ion Ratio Lower Upper

82 100

128 41.3 32.9 49.3

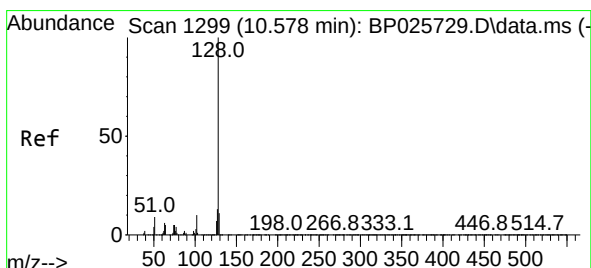
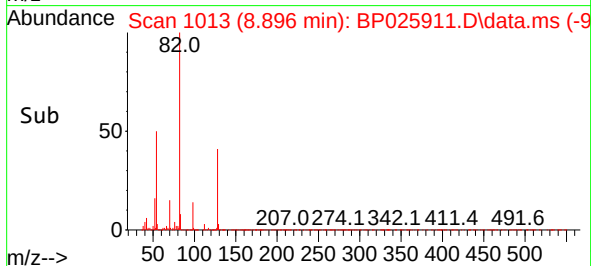
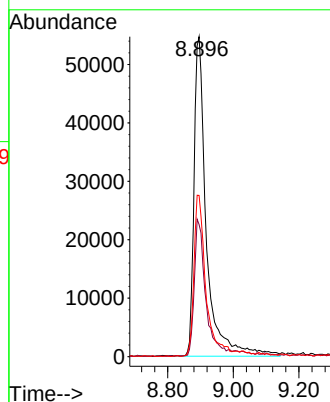
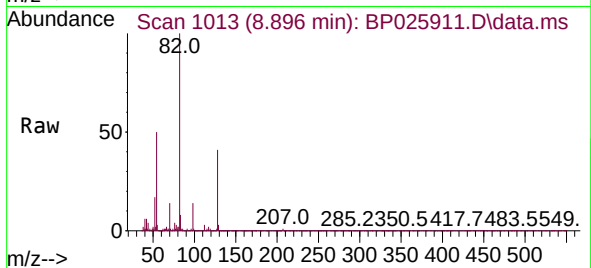
54 50.4 43.4 65.2

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Reviewed By :Rahul Chavli 10/03/2025

Supervised By :Jagrut Upadhyay 10/03/2025



#31

Naphthalene

Concen: 6.956 ng

RT: 10.560 min Scan# 1296

Delta R.T. -0.018 min

Lab File: BP025911.D

Acq: 01 Oct 2025 21:58

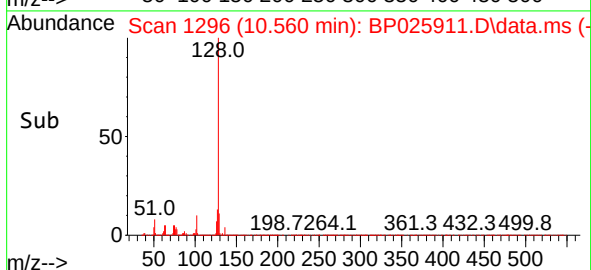
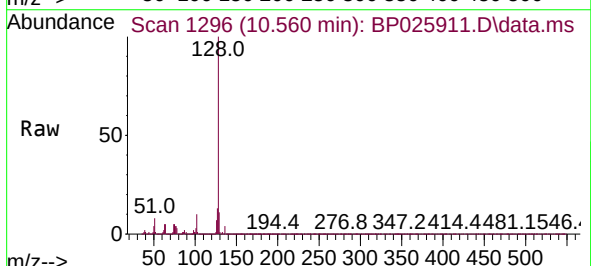
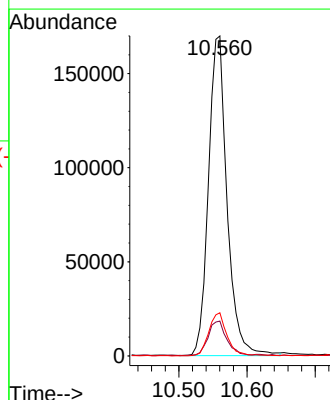
Tgt Ion:128 Resp: 322053

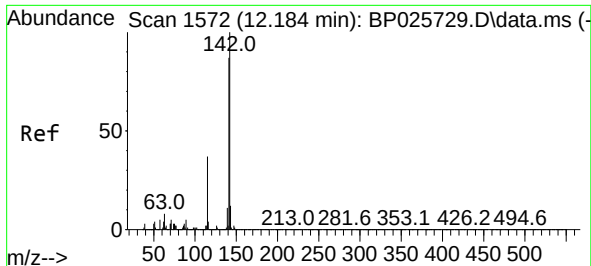
Ion Ratio Lower Upper

128 100

129 10.9 8.6 12.8

127 13.5 10.2 15.4





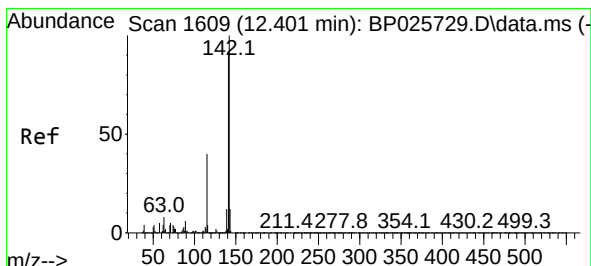
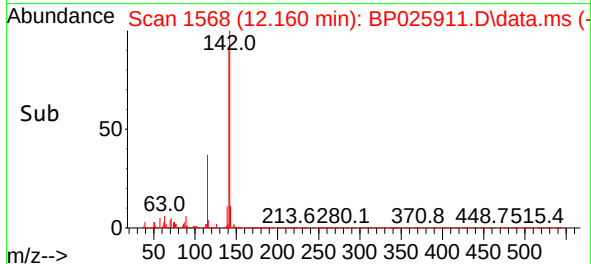
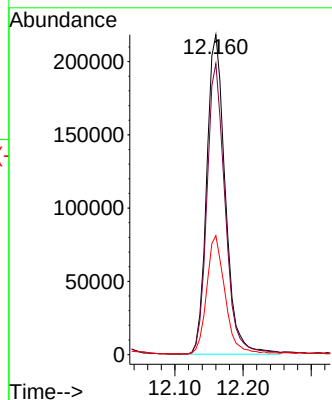
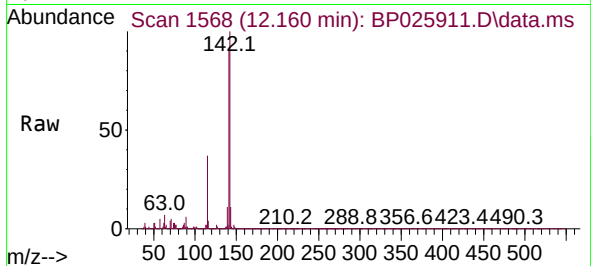
#37
2-Methylnaphthalene
Concen: 13.873 ng
RT: 12.160 min Scan# 1568
Delta R.T. -0.024 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-2-WC

Tgt Ion:142 Resp: 412531
Ion Ratio Lower Upper
142 100
141 90.9 69.6 104.4
115 37.2 30.0 45.0

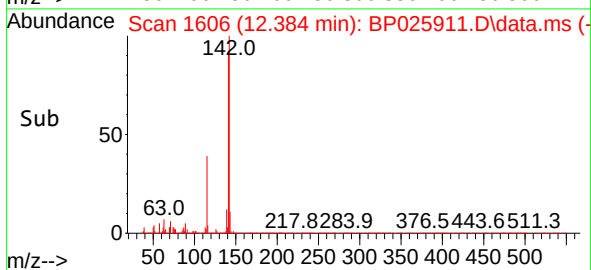
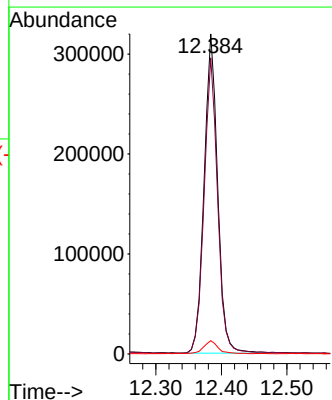
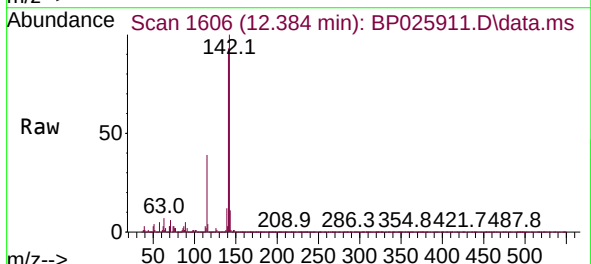
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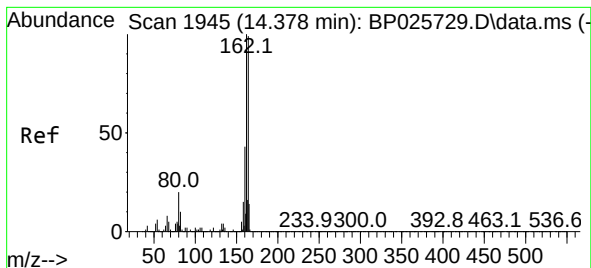
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



#38
1-Methylnaphthalene
Concen: 14.370 ng
RT: 12.384 min Scan# 1606
Delta R.T. -0.018 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

Tgt Ion:142 Resp: 455685
Ion Ratio Lower Upper
142 100
141 92.5 72.7 109.1
116 4.1 3.5 5.3





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.354 min Scan# 1941

Delta R.T. -0.024 min

Lab File: BP025911.D

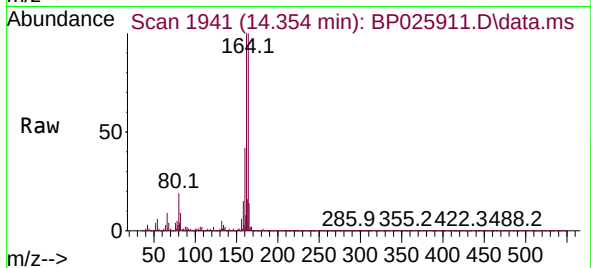
Acq: 01 Oct 2025 21:58

Instrument :

BNA_P

ClientSampleId :

SOIL-PILE-2-WC



Tgt Ion:164 Resp: 538090

Ion Ratio Lower Upper

164 100

162 100.1 80.6 120.8

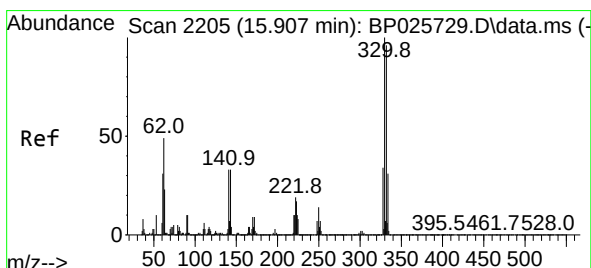
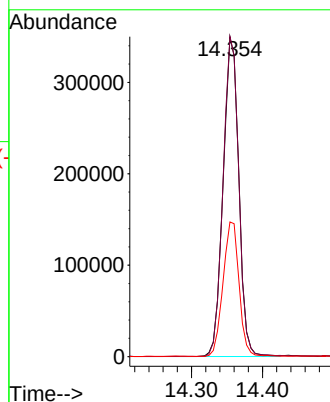
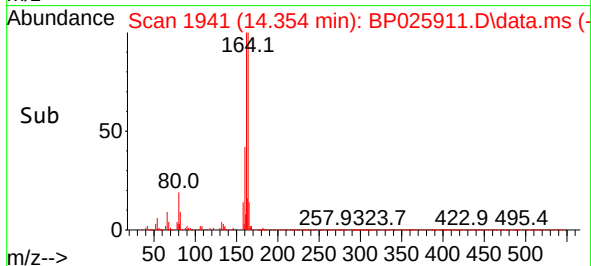
160 42.1 35.0 52.6

Manual Integrations

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#42

2,4,6-Tribromophenol

Concen: 13.186 ng

RT: 15.872 min Scan# 2199

Delta R.T. -0.035 min

Lab File: BP025911.D

Acq: 01 Oct 2025 21:58

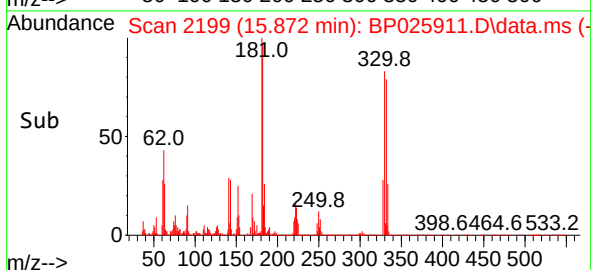
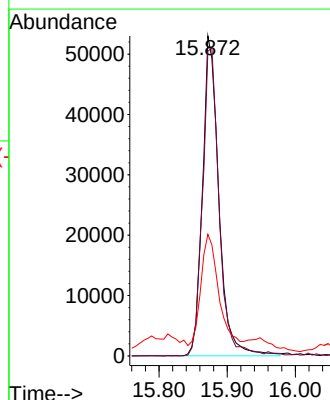
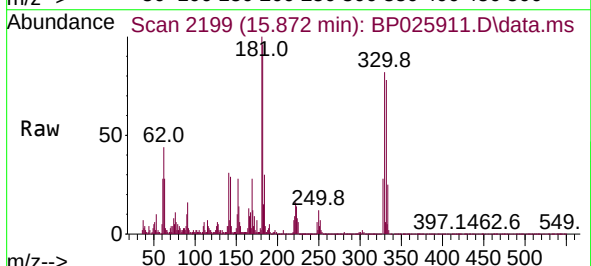
Tgt Ion:330 Resp: 88502

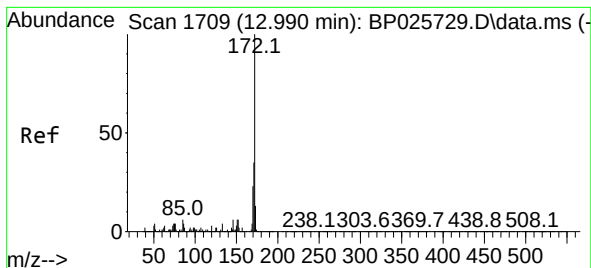
Ion Ratio Lower Upper

330 100

332 97.3 76.9 115.3

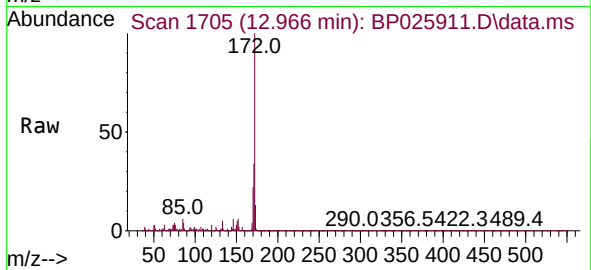
141 37.1 31.0 46.4





#45
2-Fluorobiphenyl
Concen: 8.355 ng
RT: 12.966 min Scan# 1705
Delta R.T. -0.024 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

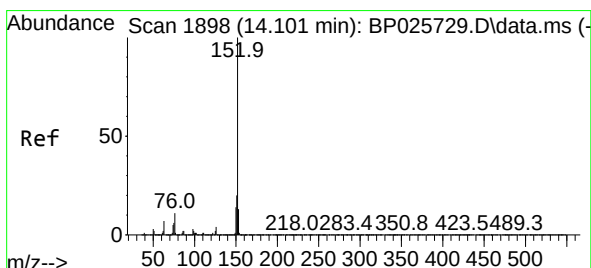
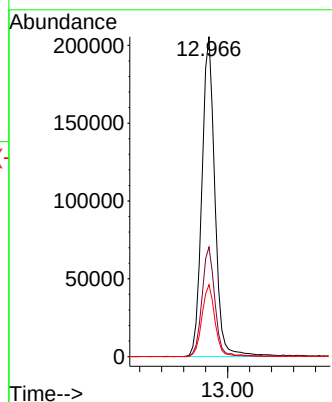
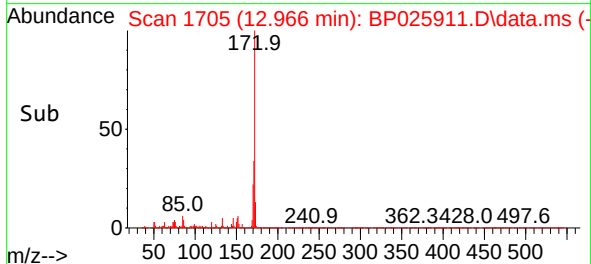
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-2-WC



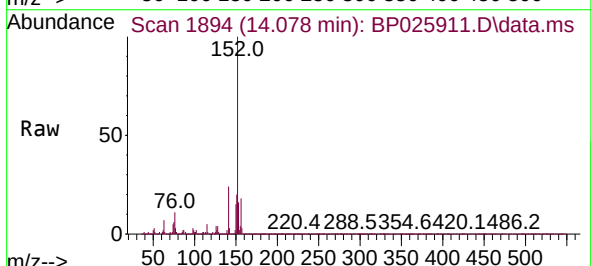
Tgt Ion:172 Resp: 337654
Ion Ratio Lower Upper
172 100
171 34.2 27.8 41.6
170 22.5 18.6 27.8

Manual Integrations
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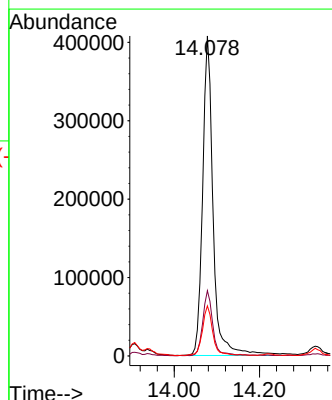
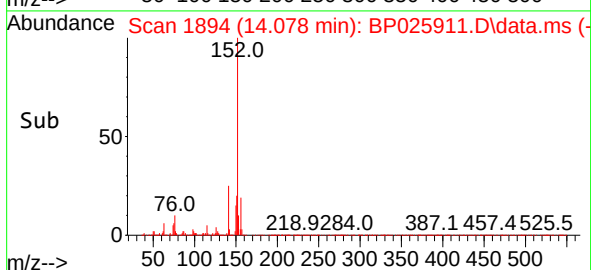
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

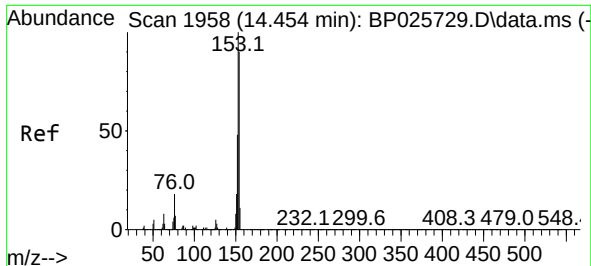


#49
Acenaphthylene
Concen: 13.489 ng
RT: 14.078 min Scan# 1894
Delta R.T. -0.024 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58



Tgt Ion:152 Resp: 695066
Ion Ratio Lower Upper
152 100
151 20.4 15.8 23.6
153 15.6 10.5 15.7





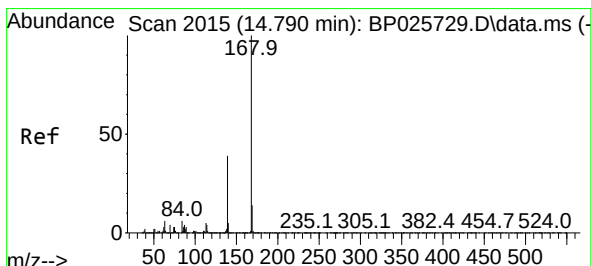
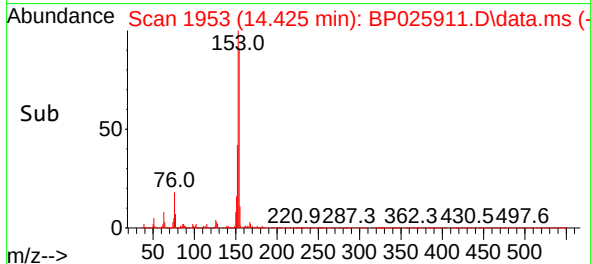
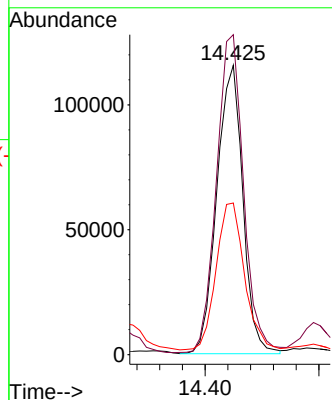
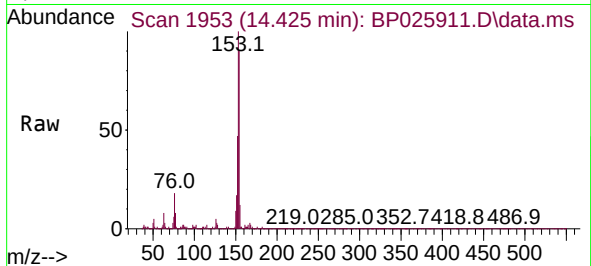
#52
Acenaphthene
Concen: 6.181 ng
RT: 14.425 min Scan# 1958
Delta R.T. -0.030 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-2-WC

Tgt Ion:154 Resp: 183686
Ion Ratio Lower Upper
154 100
153 110.6 89.4 134.0
152 52.4 42.5 63.7

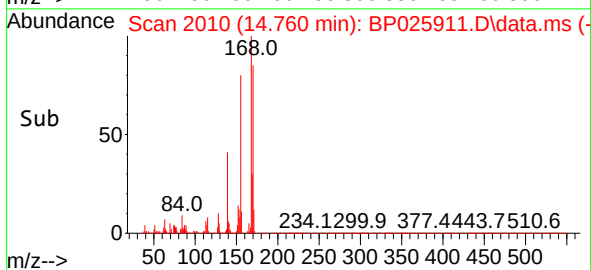
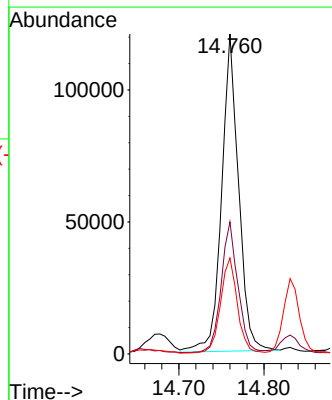
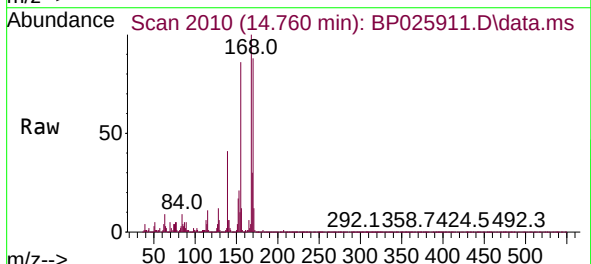
Manual Integrations
APPROVED

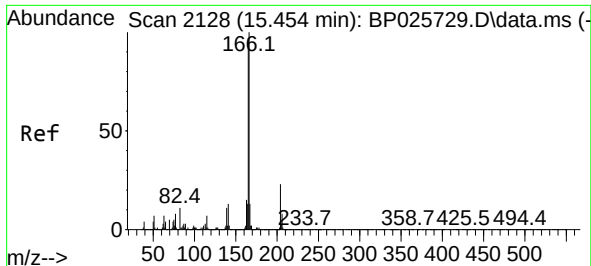
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



#55
Dibenzofuran
Concen: 3.427 ng
RT: 14.760 min Scan# 2010
Delta R.T. -0.030 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

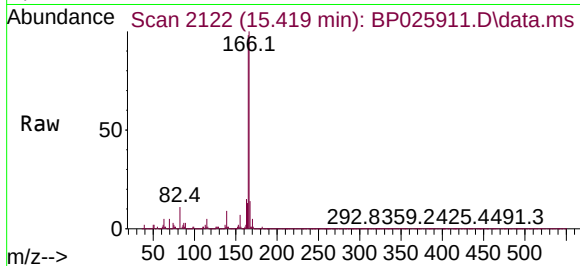
Tgt Ion:168 Resp: 165996
Ion Ratio Lower Upper
168 100
139 41.3 31.7 47.5
169 30.0 10.8 16.2#





#58
Fluorene
Concen: 14.513 ng
RT: 15.419 min Scan# 2122
Delta R.T. -0.035 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

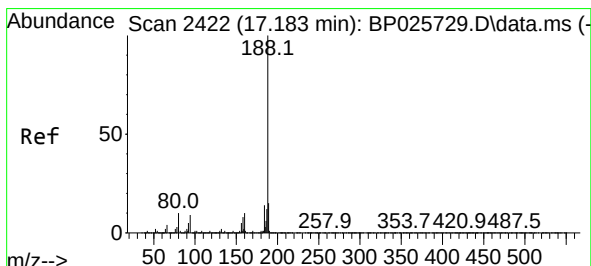
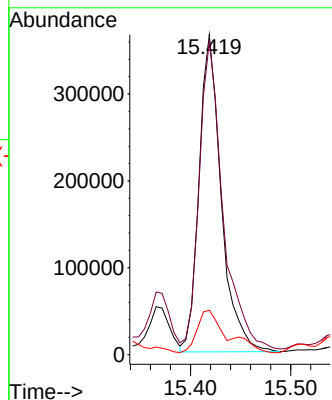
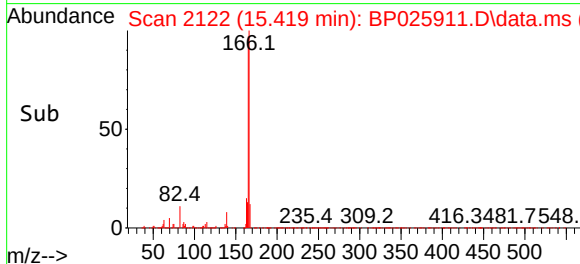
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-2-WC



Tgt Ion:166 Resp: 558903
Ion Ratio Lower Upper
166 100
165 97.9 77.7 116.5
167 13.9 10.6 16.0

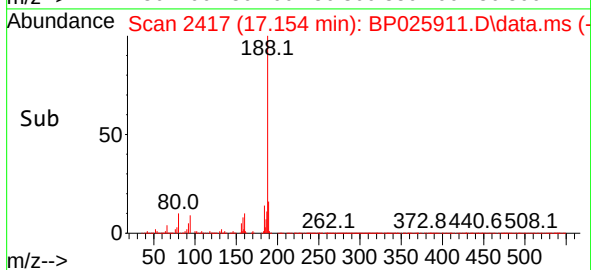
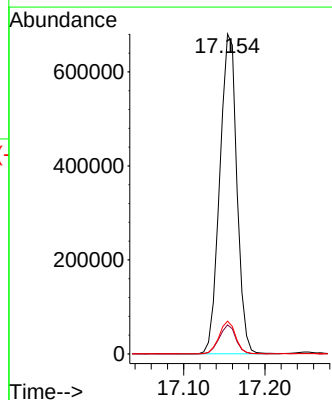
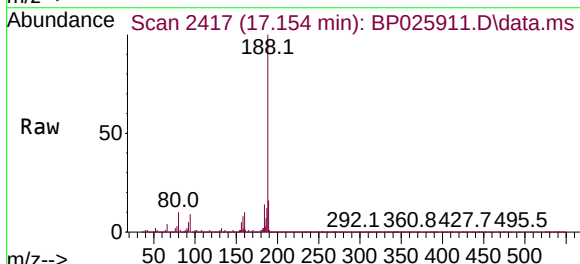
Manual Integrations
APPROVED

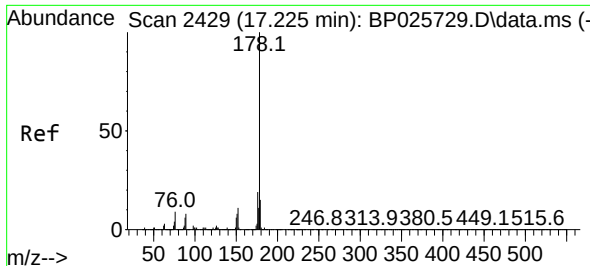
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.154 min Scan# 2417
Delta R.T. -0.030 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

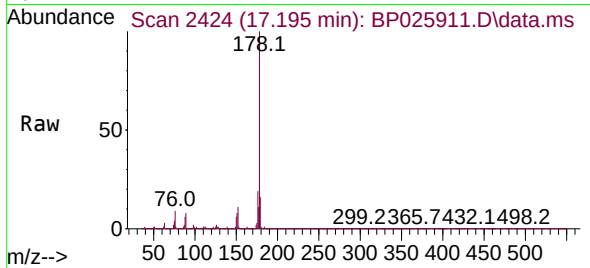
Tgt Ion:188 Resp: 996821
Ion Ratio Lower Upper
188 100
94 9.1 7.4 11.0
80 10.2 7.7 11.5





#71
Phenanthrene
Concen: 92.827 ng
RT: 17.195 min Scan# 2429
Delta R.T. -0.030 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

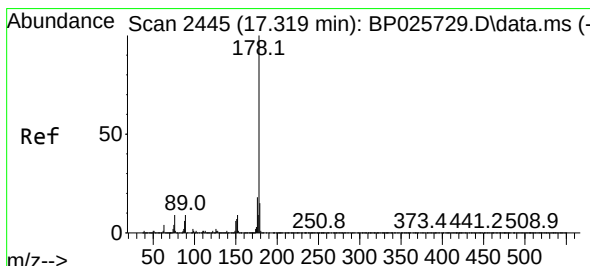
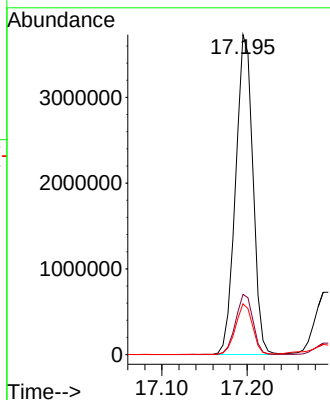
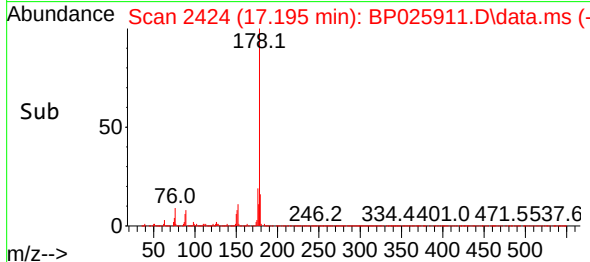
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-2-WC



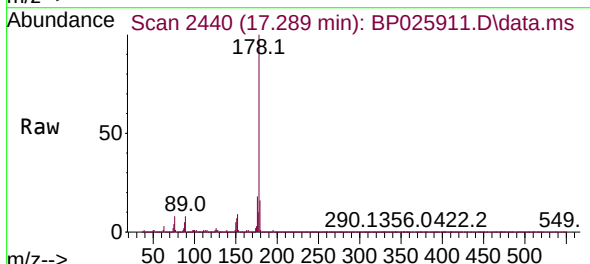
Tgt Ion:178 Resp: 5248975
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.2
179 15.9 12.2 18.4

Manual Integrations
APPROVED

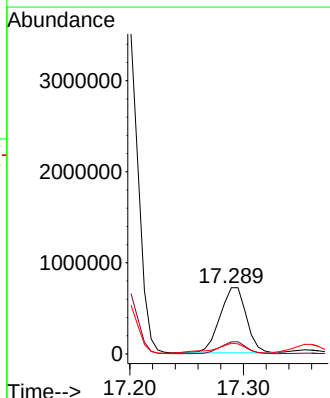
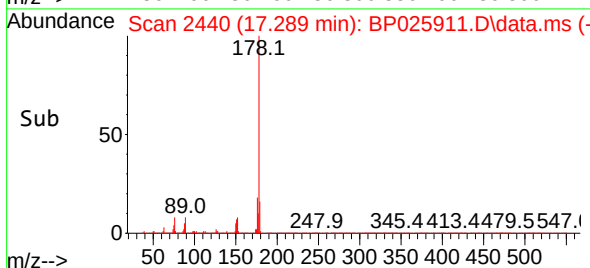
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

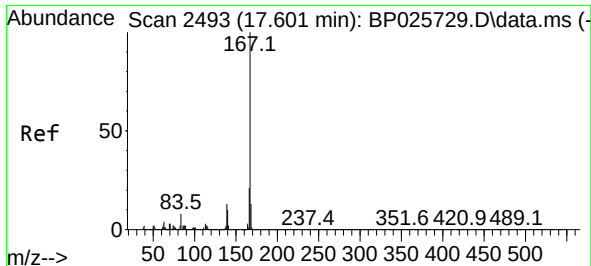


#72
Anthracene
Concen: 20.168 ng
RT: 17.289 min Scan# 2440
Delta R.T. -0.030 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58



Tgt Ion:178 Resp: 1157071
Ion Ratio Lower Upper
178 100
176 18.3 14.8 22.2
179 16.2 12.2 18.4





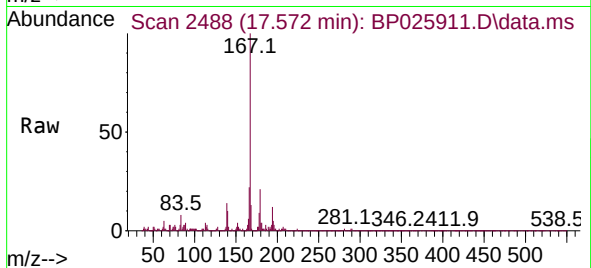
#73
 Carbazole
 Concen: 5.014 ng
 RT: 17.572 min Scan# 2493
 Delta R.T. -0.030 min
 Lab File: BP025911.D
 Acq: 01 Oct 2025 21:58

Instrument :

BNA_P

ClientSampleId :

SOIL-PILE-2-WC



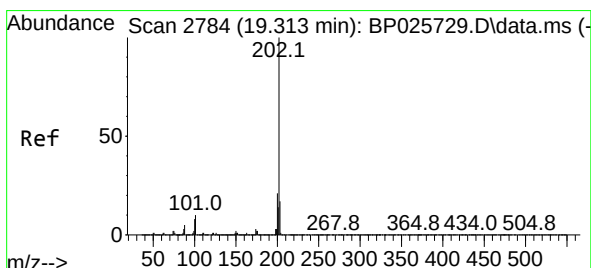
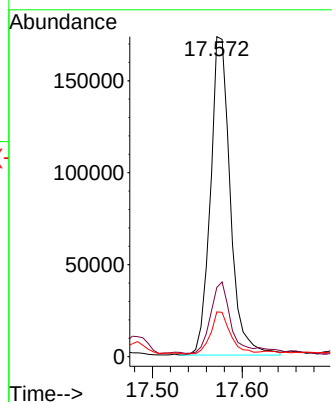
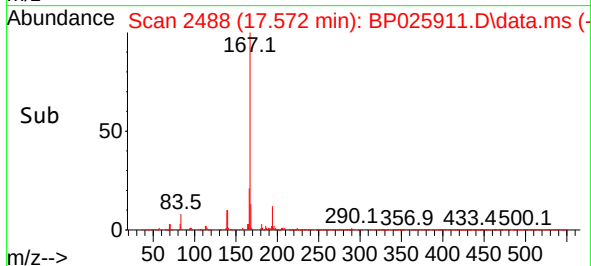
Tgt Ion:167 Resp: 267441
 Ion Ratio Lower Upper
 167 100
 166 21.6 17.0 25.4
 139 14.0 10.6 16.0

Manual Integrations

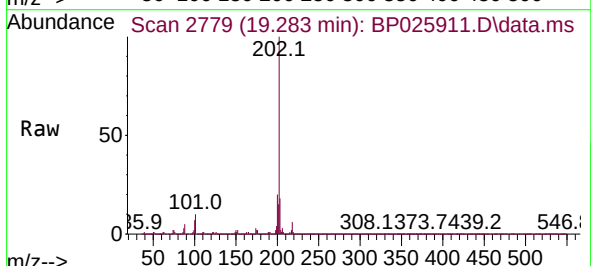
APPROVED

Reviewed By :Rahul Chavli 10/03/2025

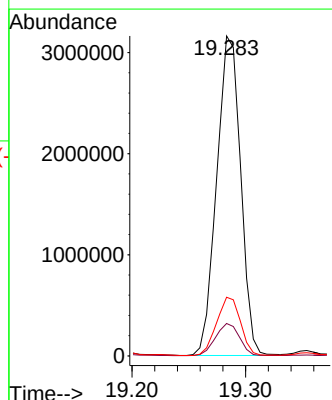
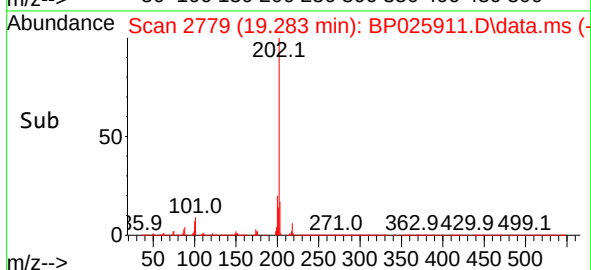
Supervised By :Jagrut Upadhyay 10/03/2025

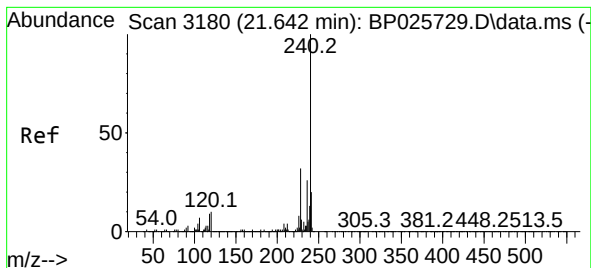


#75
 Fluoranthene
 Concen: 68.341 ng
 RT: 19.283 min Scan# 2779
 Delta R.T. -0.030 min
 Lab File: BP025911.D
 Acq: 01 Oct 2025 21:58



Tgt Ion:202 Resp: 4634599
 Ion Ratio Lower Upper
 202 100
 101 10.1 0.0 30.4
 203 18.3 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.595 min Scan# 31

Delta R.T. -0.047 min

Lab File: BP025911.D

Acq: 01 Oct 2025 21:58

Instrument :

BNA_P

ClientSampleId :

SOIL-PILE-2-WC

Tgt Ion:240 Resp: 963525

Ion Ratio Lower Upper

240 100

120 9.3 8.0 12.0

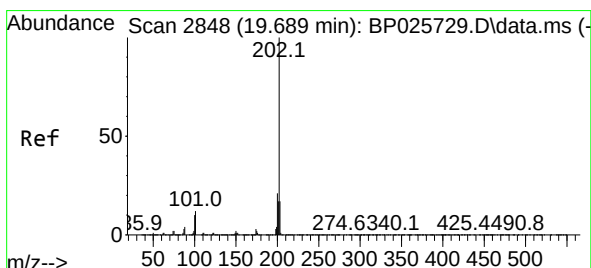
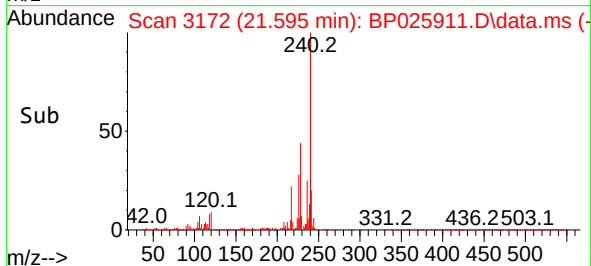
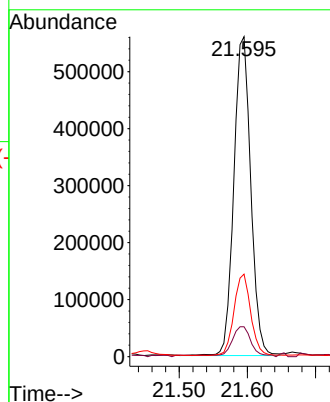
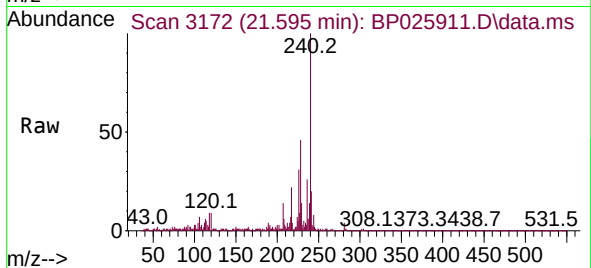
236 25.8 20.7 31.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/03/2025

Supervised By :Jagrut Upadhyay 10/03/2025



#78

Pyrene

Concen: 88.242 ng

RT: 19.666 min Scan# 2844

Delta R.T. -0.024 min

Lab File: BP025911.D

Acq: 01 Oct 2025 21:58

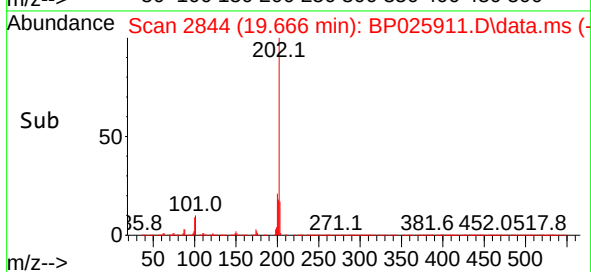
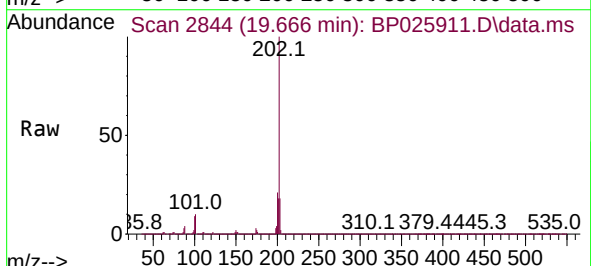
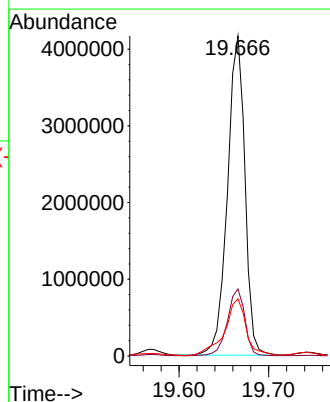
Tgt Ion:202 Resp: 5673212

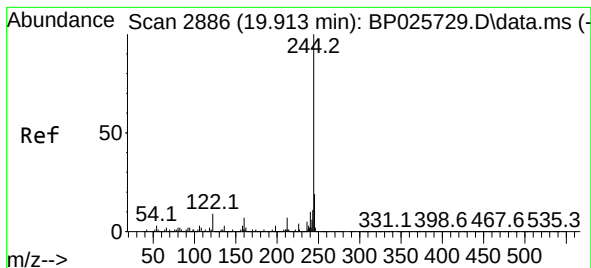
Ion Ratio Lower Upper

202 100

200 20.9 17.0 25.6

203 17.8 13.9 20.9





#79

Terphenyl-d14

Concen: 8.577 ng

RT: 19.877 min Scan# 2886

Delta R.T. -0.035 min

Lab File: BP025911.D

Acq: 01 Oct 2025 21:58

Instrument :

BNA_P

ClientSampleId :

SOIL-PILE-2-WC

Tgt Ion:244 Resp: 459404

Ion Ratio Lower Upper

244 100

212 7.5 5.9 8.9

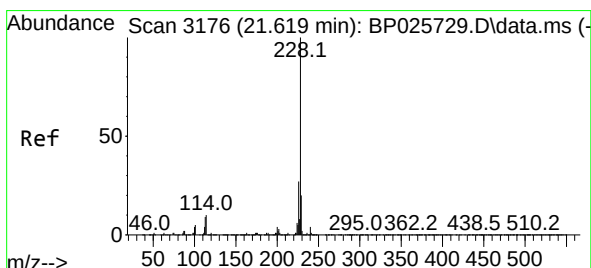
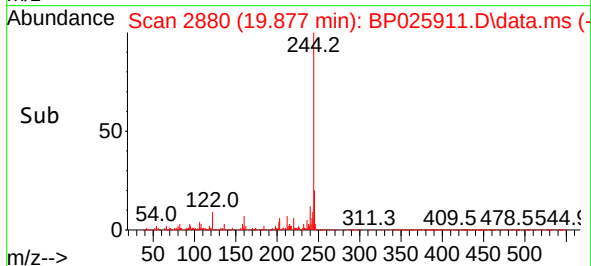
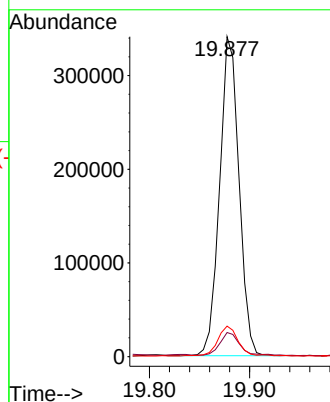
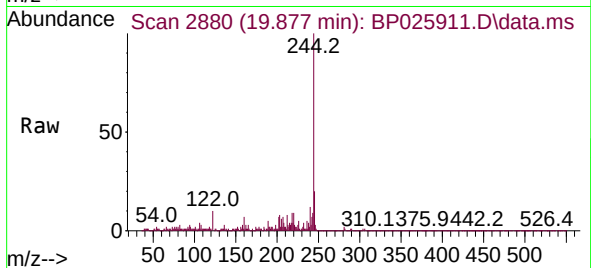
122 9.5 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/03/2025

Supervised By :Jagrut Upadhyay 10/03/2025



#81

Benzo(a)anthracene

Concen: 36.958 ng

RT: 21.571 min Scan# 3168

Delta R.T. -0.047 min

Lab File: BP025911.D

Acq: 01 Oct 2025 21:58

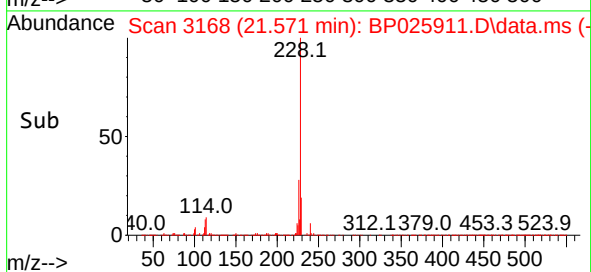
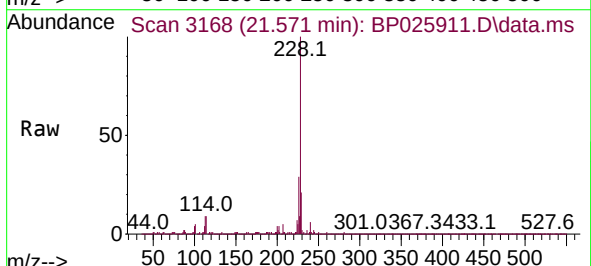
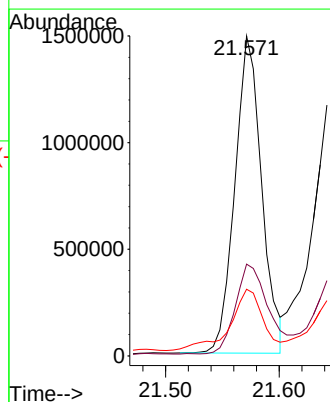
Tgt Ion:228 Resp: 2437936

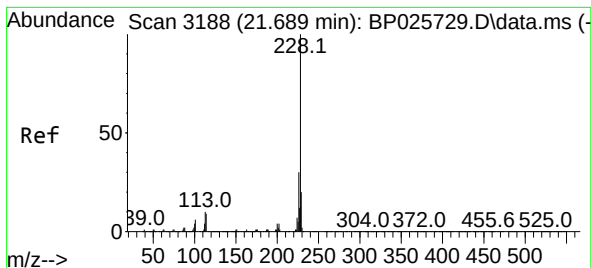
Ion Ratio Lower Upper

228 100

226 28.7 21.6 32.4

229 20.8 15.7 23.5





#83

Chrysene

Concen: 41.799 ng

RT: 21.648 min Scan# 31

Delta R.T. -0.041 min

Lab File: BP025911.D

Acq: 01 Oct 2025 21:58

Instrument :

BNA_P

ClientSampleId :

SOIL-PILE-2-WC

Tgt Ion:228 Resp: 262833

Ion Ratio Lower Upper

228 100

226 30.0 23.8 35.6

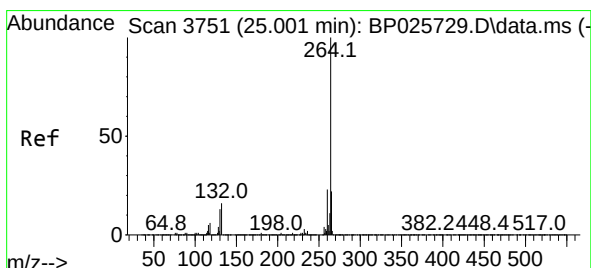
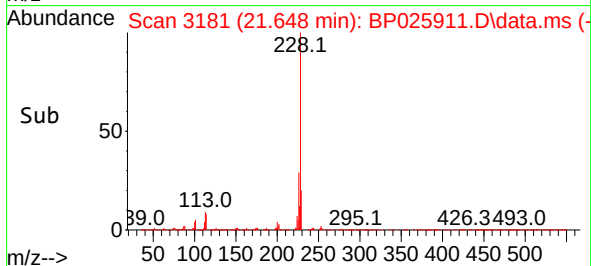
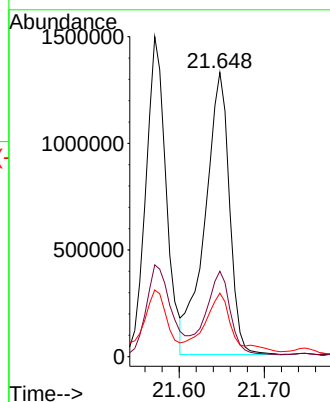
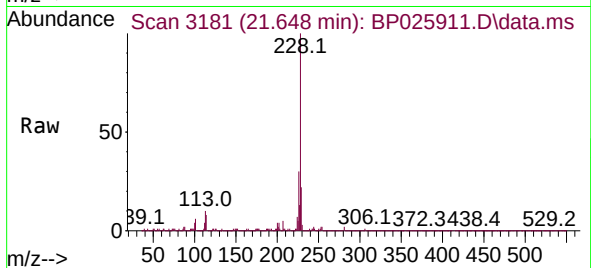
229 22.3 15.6 23.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/03/2025

Supervised By :Jagrut Upadhyay 10/03/2025



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.948 min Scan# 3742

Delta R.T. -0.053 min

Lab File: BP025911.D

Acq: 01 Oct 2025 21:58

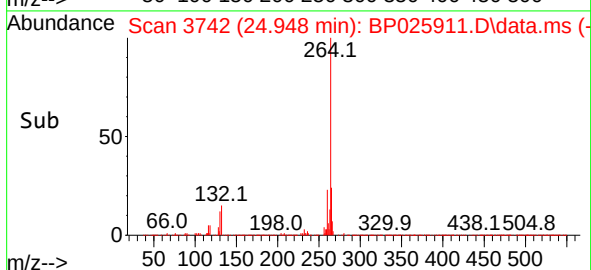
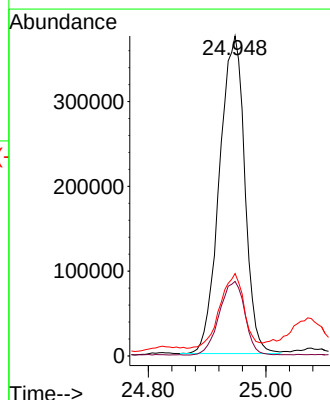
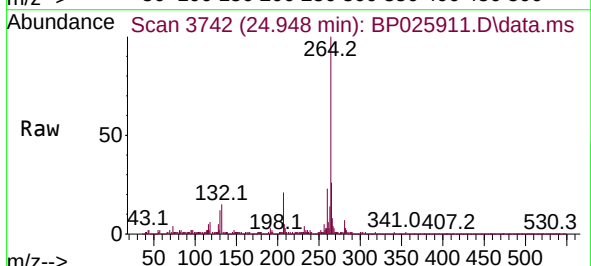
Tgt Ion:264 Resp: 1118861

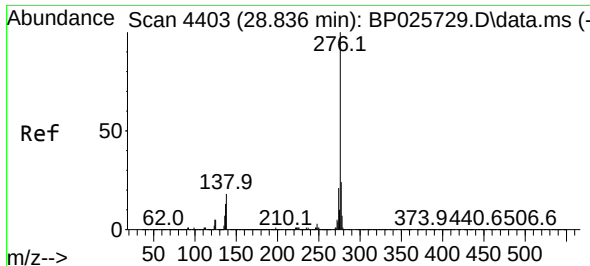
Ion Ratio Lower Upper

264 100

260 23.3 18.3 27.5

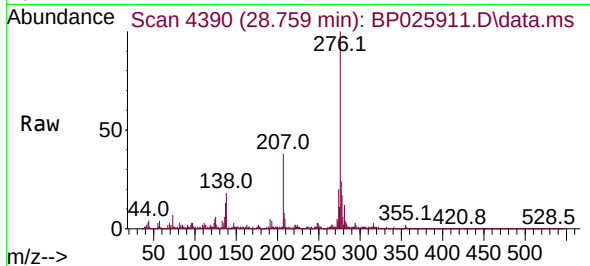
265 25.7 17.3 25.9





#87
Indeno(1,2,3-cd)pyrene
Concen: 14.128 ng
RT: 28.759 min Scan# 4390
Delta R.T. -0.077 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

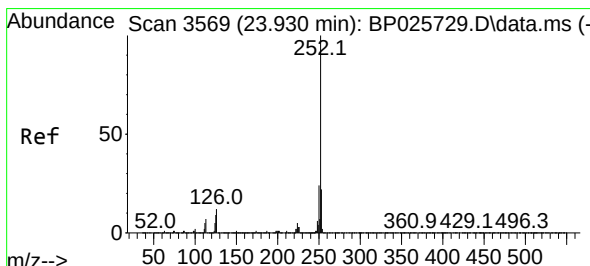
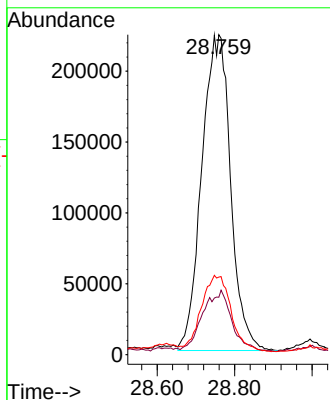
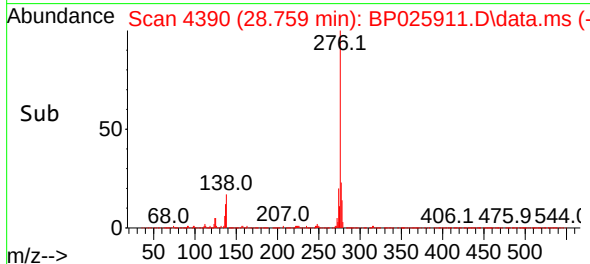
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-2-WC



Tgt Ion:276 Resp: 1149512
Ion Ratio Lower Upper
276 100
138 19.7 13.4 20.2
277 24.9 9.1 13.7

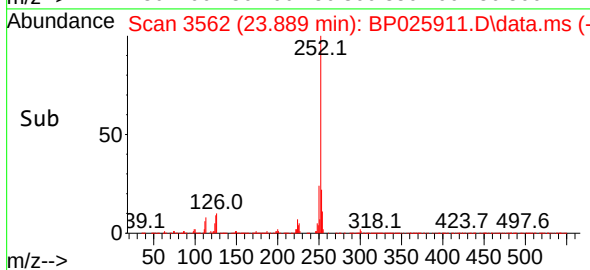
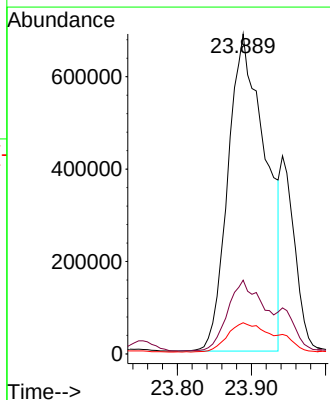
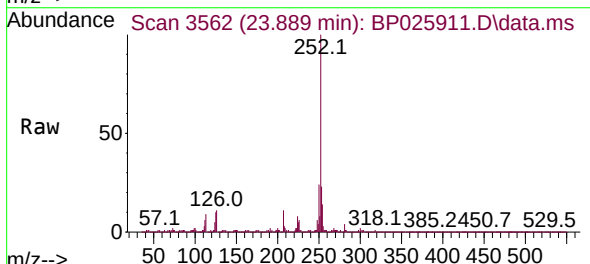
Manual Integrations
APPROVED

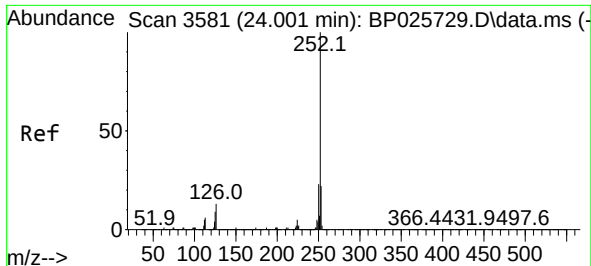
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



#88
Benzo(b)fluoranthene
Concen: 35.456 ng
RT: 23.889 min Scan# 3562
Delta R.T. -0.041 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

Tgt Ion:252 Resp: 2425933
Ion Ratio Lower Upper
252 100
253 23.0 17.9 26.9
125 9.7 7.3 10.9





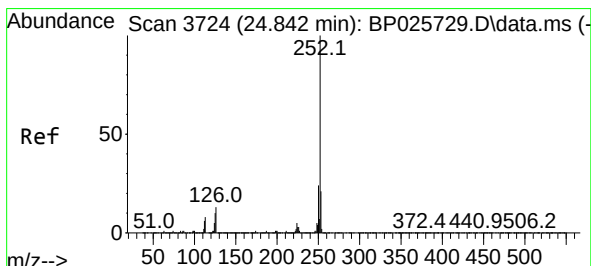
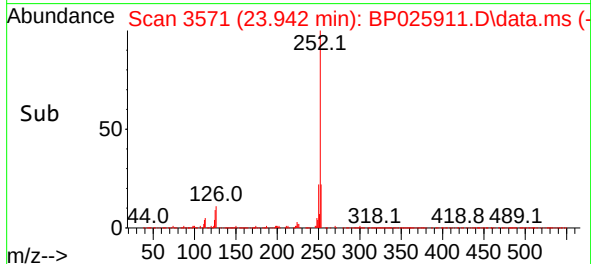
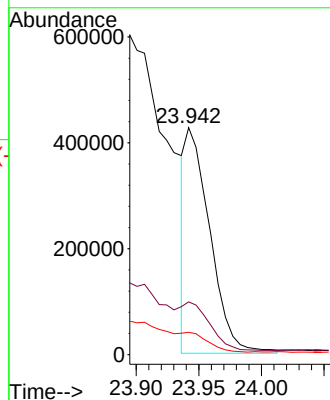
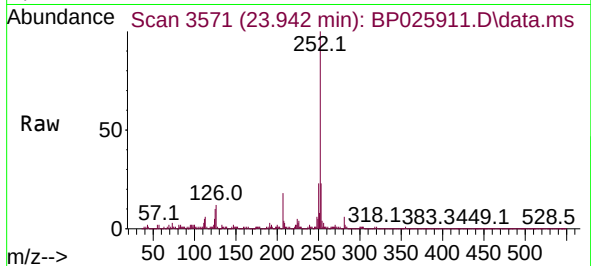
#89
Benzo(k)fluoranthene
Concen: 8.251 ng m
RT: 23.942 min Scan# 31
Delta R.T. -0.059 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-2-WC

Tgt Ion:252 Resp: 576091
Ion Ratio Lower Upper
252 100
253 23.2 17.5 26.3
125 9.8 7.5 11.3

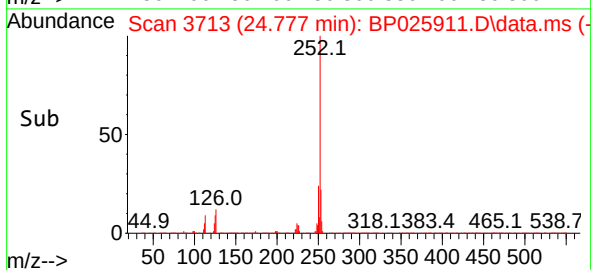
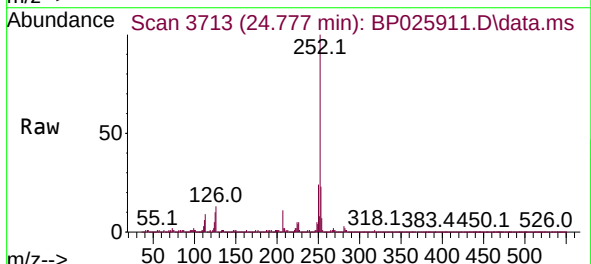
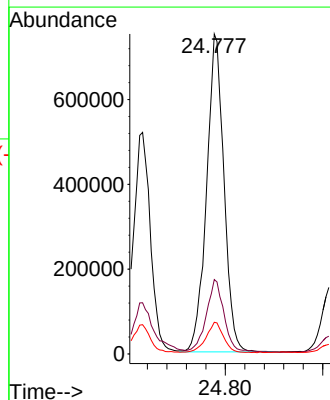
Manual Integrations
APPROVED

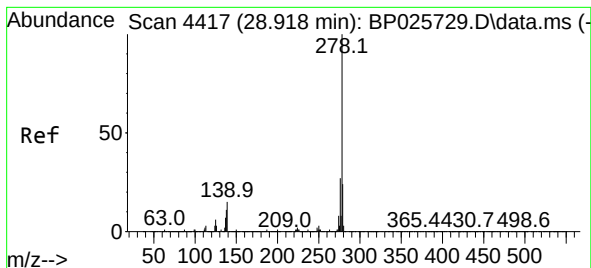
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



#90
Benzo(a)pyrene
Concen: 27.725 ng
RT: 24.777 min Scan# 3713
Delta R.T. -0.065 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

Tgt Ion:252 Resp: 1857660
Ion Ratio Lower Upper
252 100
253 23.2 17.2 25.8
125 9.9 8.3 12.5





#91

Dibenzo(a,h)anthracene

Concen: 5.130 ng

RT: 28.789 min Scan# 4417

Delta R.T. -0.130 min

Lab File: BP025911.D

Acq: 01 Oct 2025 21:58

Instrument :

BNA_P

ClientSampleId :

SOIL-PILE-2-WC

Tgt Ion:278 Resp: 341554

Ion Ratio Lower Upper

278 100

139 17.1 12.1 18.1

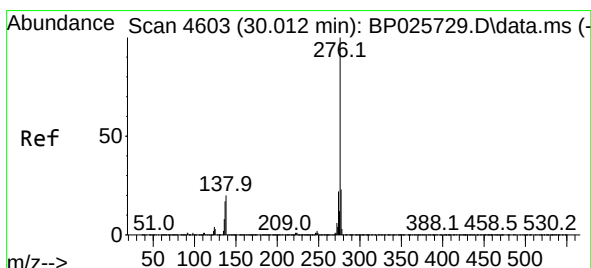
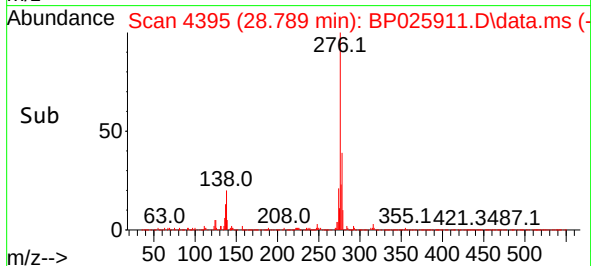
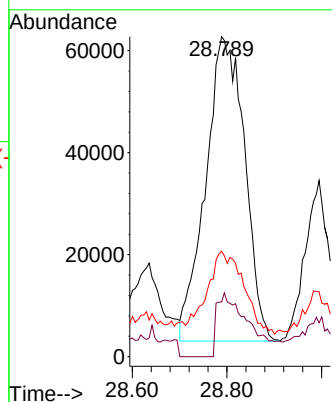
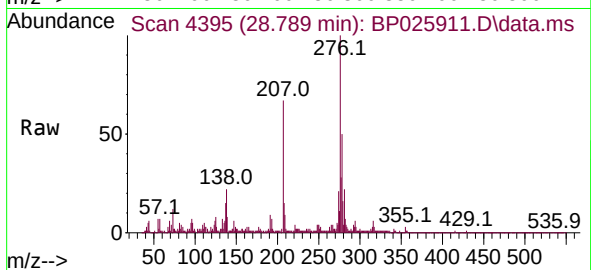
279 32.9 19.6 29.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/03/2025

Supervised By :Jagrut Upadhyay 10/03/2025



#92

Benzo(g,h,i)perylene

Concen: 18.201 ng

RT: 29.924 min Scan# 4588

Delta R.T. -0.088 min

Lab File: BP025911.D

Acq: 01 Oct 2025 21:58

Tgt Ion:276 Resp: 1191806

Ion Ratio Lower Upper

276 100

277 23.9 18.7 28.1

138 18.9 16.0 24.0

