

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP092425\
 Data File : BP025853.D
 Acq On : 24 Sep 2025 20:13
 Operator : CG/JU
 Sample : Q3168-03
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 ARS20-0010-Oily Soil-Sludge

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 09/25/2025
 Supervised By :Jagrut Upadhyay 09/25/2025

Quant Time: Sep 25 00:40:03 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP091225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 16:45:04 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.749	152	186470	20.000	ng	-0.01
21) Naphthalene-d8	10.513	136	761439	20.000	ng	-0.01
39) Acenaphthene-d10	14.372	164	537371	20.000	ng	0.00
64) Phenanthrene-d10	17.172	188	976643	20.000	ng	#-0.01
76) Chrysene-d12	21.630	240	1032484	20.000	ng	-0.01
86) Perylene-d12	24.989	264	1189012	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.378	112	762168	65.951	ng	0.00
7) Phenol-d6	6.949	99	942635	61.367	ng	0.00
23) Nitrobenzene-d5	8.896	82	595804	34.516	ng	0.00
42) 2,4,6-Tribromophenol	15.889	330	397191	59.259	ng	-0.02
45) 2-Fluorobiphenyl	12.978	172	856964	21.234	ng	-0.01
79) Terphenyl-d14	19.895	244	1130675	19.701	ng	-0.02
Target Compounds						Qvalue
32) Benzoic acid	9.866	122	46298m	5.163	ng	
52) Acenaphthene	14.431	154	72850	2.455	ng	93
58) Fluorene	15.436	166	95723	2.489	ng	# 94
71) Phenanthrene	17.219	178	1504917	27.164	ng	98
72) Anthracene	17.313	178	138072m	2.456	ng	
73) Carbazole	17.601	167	135906	2.601	ng	# 66
75) Fluoranthene	19.307	202	2240922	33.727	ng	99
78) Pyrene	19.683	202	1821928	26.446	ng	98
81) Benzo(a)anthracene	21.607	228	811511	11.481	ng	99
83) Chrysene	21.671	228	1027551	15.250	ng	98
84) Bis(2-ethylhexyl)phtha...	21.524	149	755943	17.105	ng	99
87) Indeno(1,2,3-cd)pyrene	28.812	276	542361	6.272	ng	# 82
88) Benzo(b)fluoranthene	23.924	252	1268270	17.443	ng	98
89) Benzo(k)fluoranthene	23.989	252	435488m	5.869	ng	
90) Benzo(a)pyrene	24.830	252	768529	10.793	ng	97
92) Benzo(g,h,i)perylene	30.006	276	524579	7.538	ng	98

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

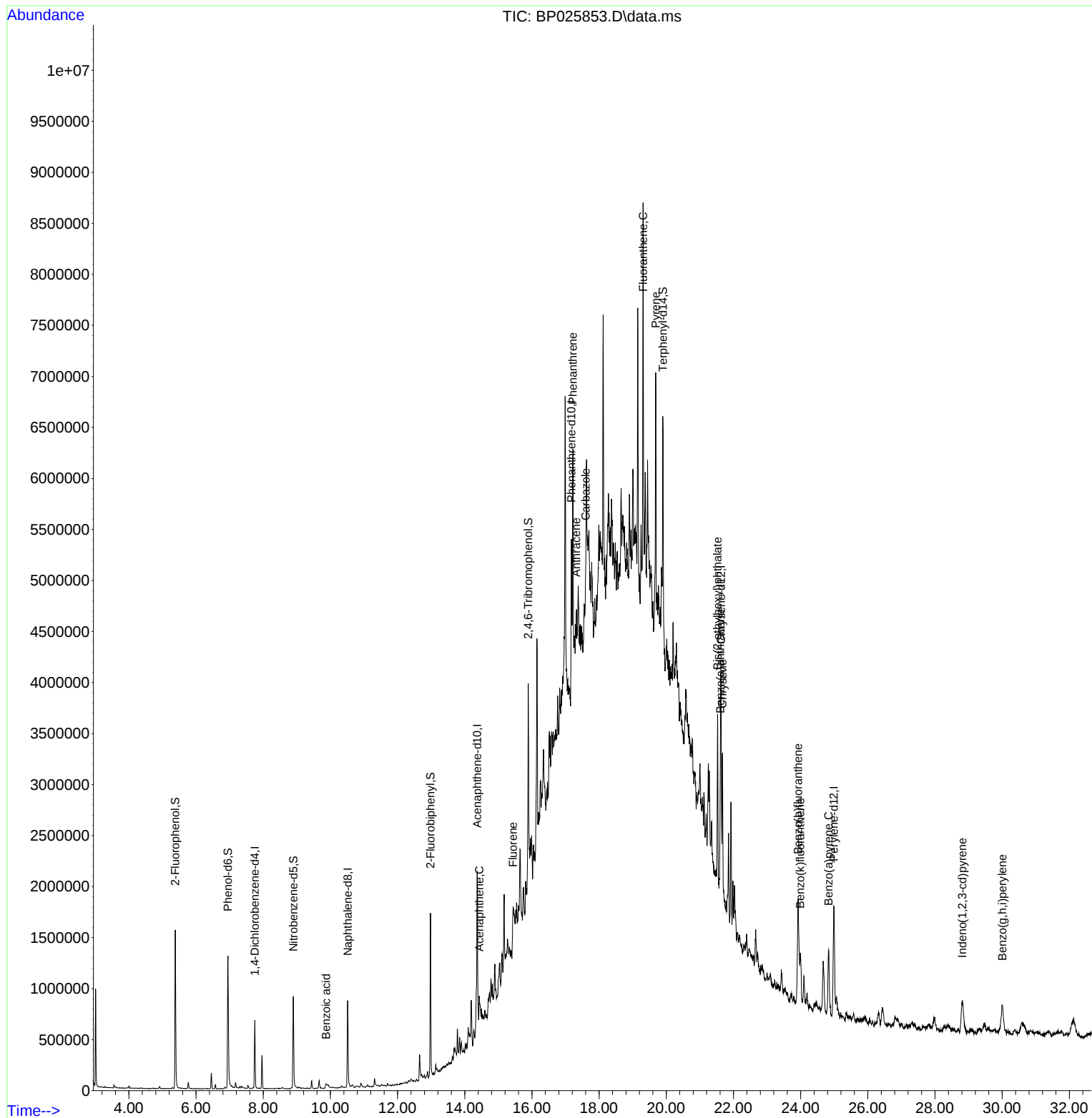
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP092425\
Data File : BP025853.D
Acq On : 24 Sep 2025 20:13
Operator : CG/JU
Sample : Q3168-03
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ALS Vial : 15 Sample Multiplier: 1

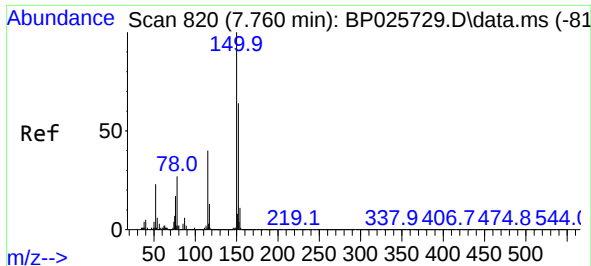
Instrument :
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ARS20-0010-Oily Soil-Sludge

Quant Time: Sep 25 00:40:03 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
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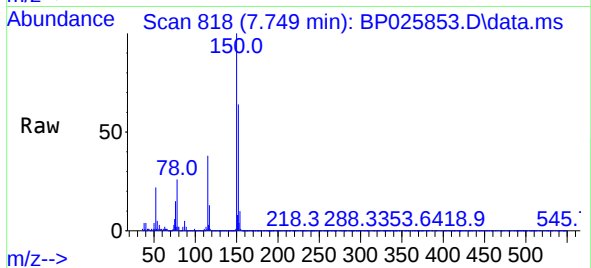
Reviewed By :Rahul Chavli 09/25/2025
Supervised By :Jagrut Upadhyay 09/25/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.749 min Scan# 81
Delta R.T. -0.011 min
Lab File: BP025853.D
Acq: 24 Sep 2025 20:13

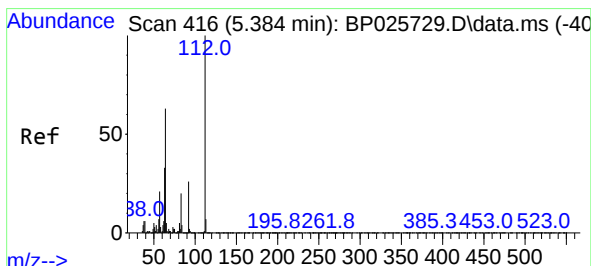
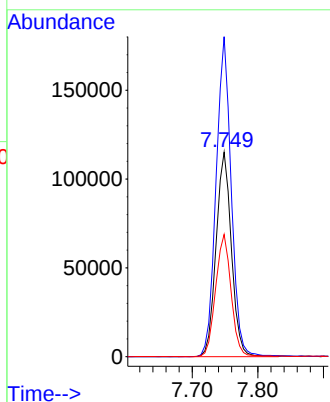
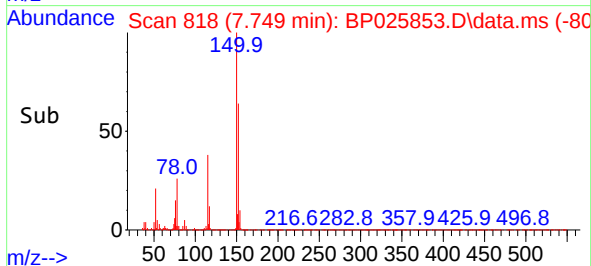
Instrument :
BNA_P
ClientSampleId :
ARS20-0010-Oily Soil-Sludge



Tgt Ion:152 Resp: 186470
Ion Ratio Lower Upper
152 100
150 156.5 124.3 186.5
115 59.8 50.3 75.5

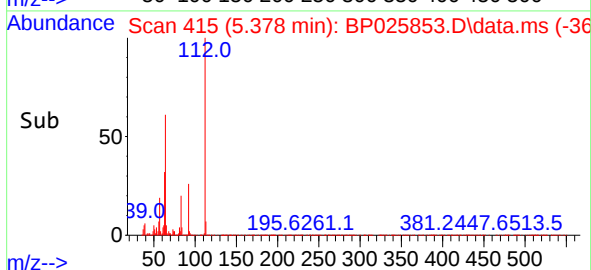
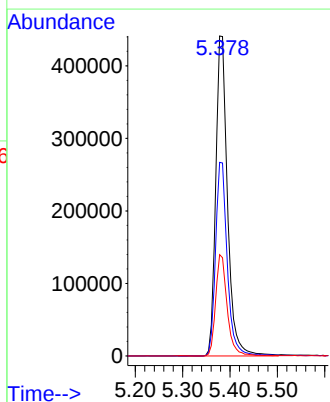
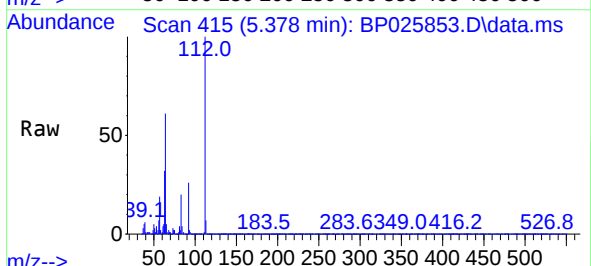
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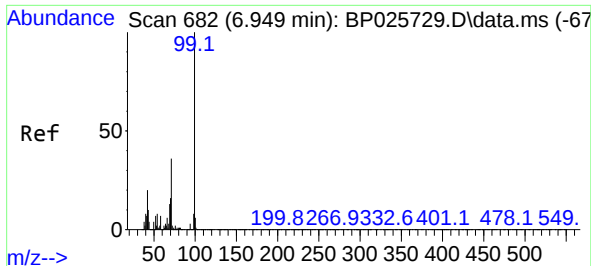
Reviewed By :Rahul Chavli 09/25/2025
Supervised By :Jagrut Upadhyay 09/25/2025



#5
2-Fluorophenol
Concen: 65.951 ng
RT: 5.378 min Scan# 415
Delta R.T. -0.006 min
Lab File: BP025853.D
Acq: 24 Sep 2025 20:13

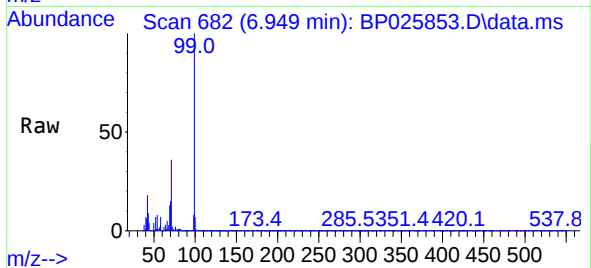
Tgt Ion:112 Resp: 762168
Ion Ratio Lower Upper
112 100
64 60.5 50.2 75.4
63 31.6 26.7 40.1





#7
Phenol-d6
Concen: 61.367 ng
RT: 6.949 min Scan# 61
Delta R.T. -0.000 min
Lab File: BP025853.D
Acq: 24 Sep 2025 20:13

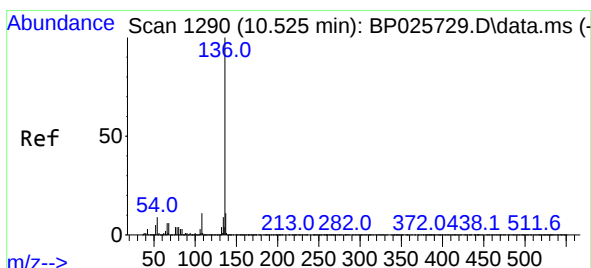
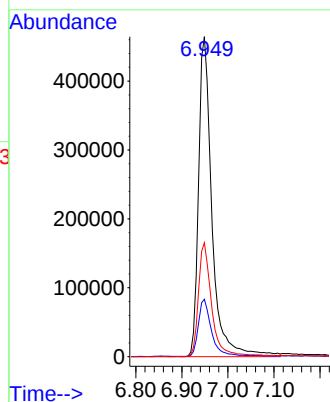
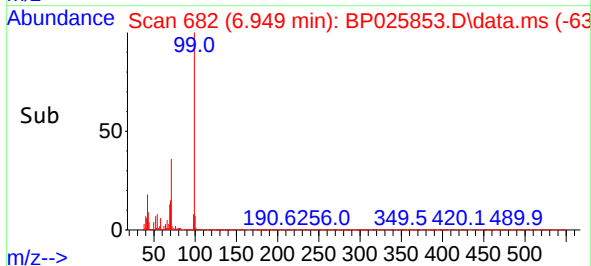
Instrument :
BNA_P
ClientSampleId :
ARS20-0010-Oily Soil-Sludge



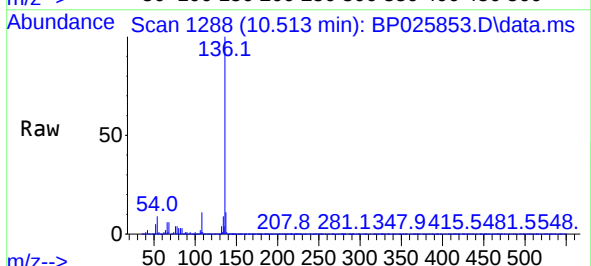
Tgt Ion: 99 Resp: 94263
Ion Ratio Lower Upper
99 100
42 17.9 15.6 23.4
71 35.6 28.6 43.0

Manual Integrations
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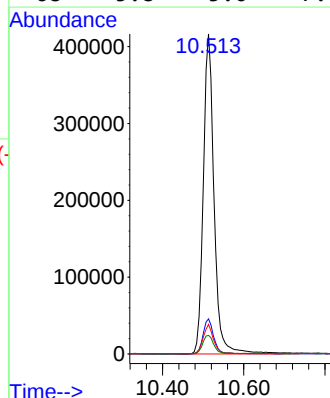
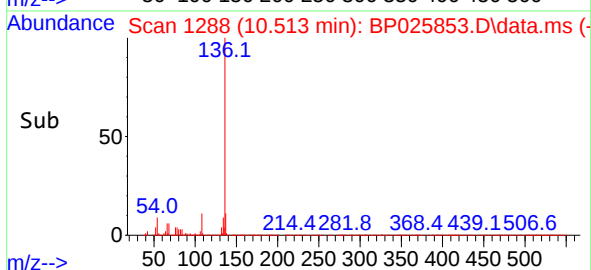
Reviewed By :Rahul Chavli 09/25/2025
Supervised By :Jagrut Upadhyay 09/25/2025

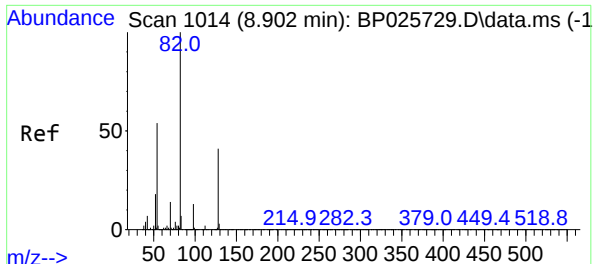


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.513 min Scan# 1288
Delta R.T. -0.012 min
Lab File: BP025853.D
Acq: 24 Sep 2025 20:13



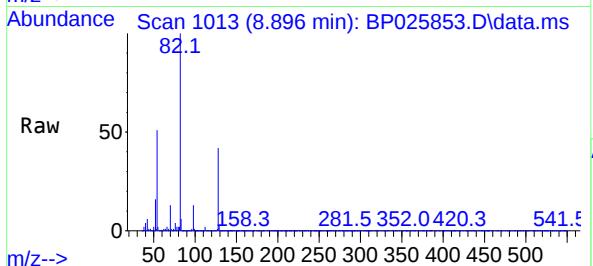
Tgt Ion:136 Resp: 761439
Ion Ratio Lower Upper
136 100
137 11.0 8.7 13.1
54 9.3 7.5 11.3
68 5.8 5.0 7.6





#23
Nitrobenzene-d5
Concen: 34.516 ng
RT: 8.896 min Scan# 1014
Delta R.T. -0.006 min
Lab File: BP025853.D
Acq: 24 Sep 2025 20:13

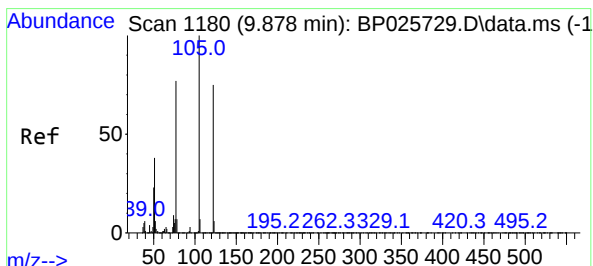
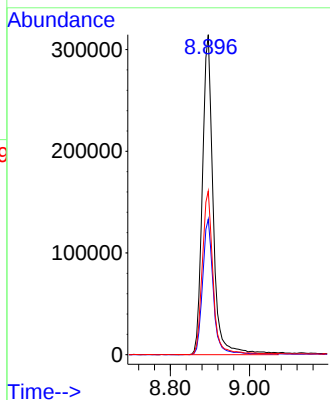
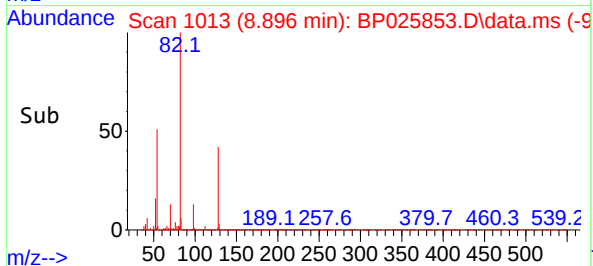
Instrument :
BNA_P
ClientSampleId :
ARS20-0010-Oily Soil-Sludge



Tgt Ion: 82 Resp: 595804
Ion Ratio Lower Upper
82 100
128 42.4 32.9 49.3
54 51.1 43.4 65.2

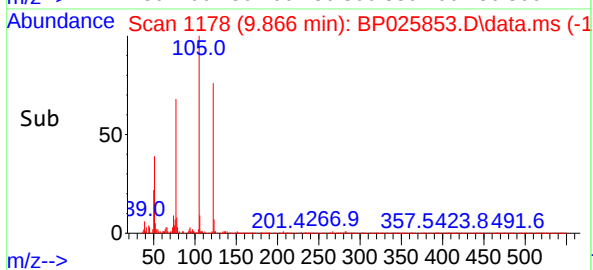
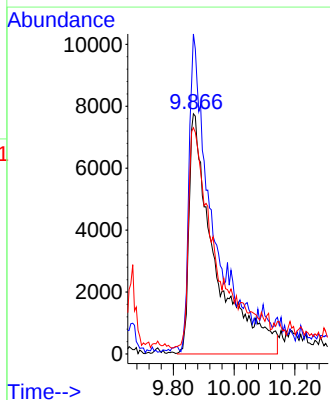
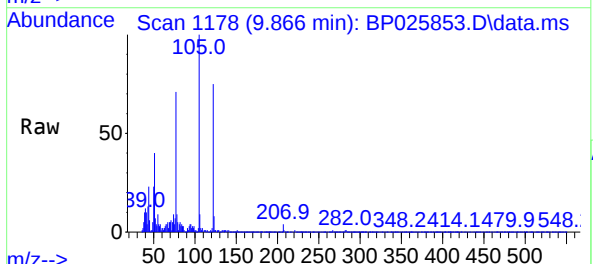
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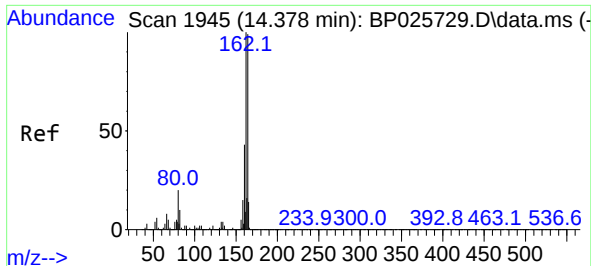
Reviewed By :Rahul Chavli 09/25/2025
Supervised By :Jagrut Upadhyay 09/25/2025



#32
Benzoic acid
Concen: 5.163 ng m
RT: 9.866 min Scan# 1178
Delta R.T. -0.012 min
Lab File: BP025853.D
Acq: 24 Sep 2025 20:13

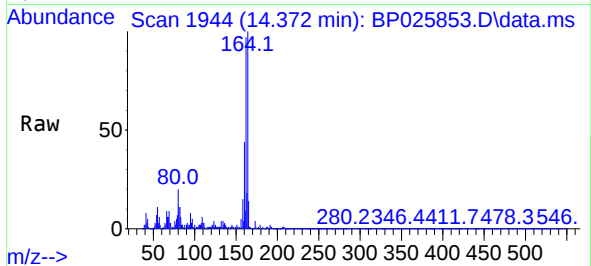
Tgt Ion:122 Resp: 46298
Ion Ratio Lower Upper
122 100
105 133.2 111.5 151.5
77 94.2 81.8 121.8





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.372 min Scan# 1945
Delta R.T. -0.006 min
Lab File: BP025853.D
Acq: 24 Sep 2025 20:13

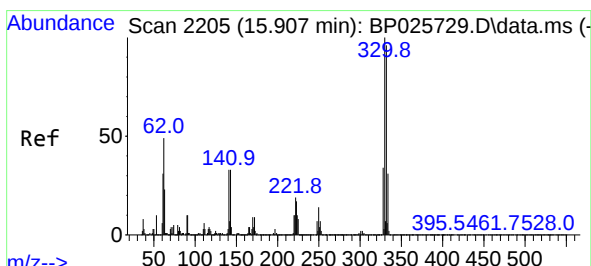
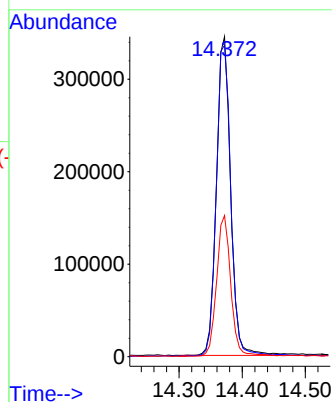
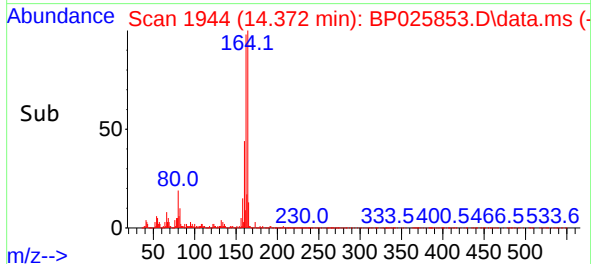
Instrument :
BNA_P
ClientSampleId :
ARS20-0010-Oily Soil-Sludge



Tgt Ion:164 Resp: 53737
Ion Ratio Lower Upper
164 100
162 97.4 80.6 120.8
160 44.1 35.0 52.6

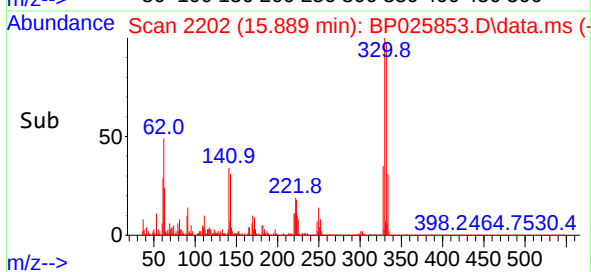
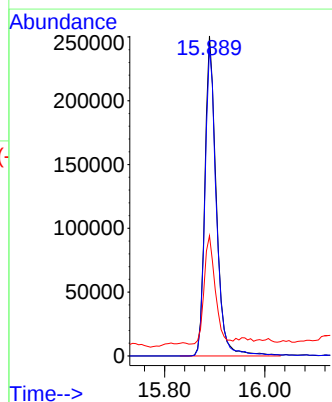
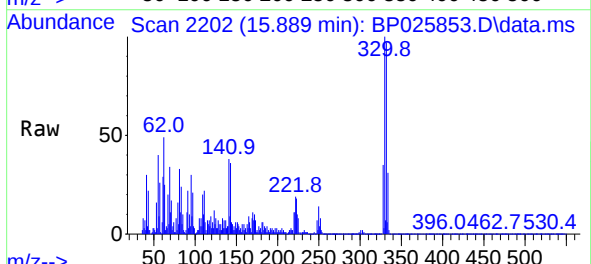
Manual Integrations
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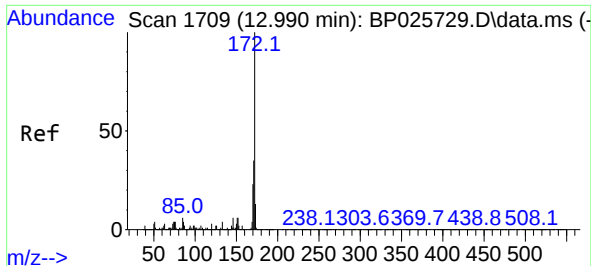
Reviewed By :Rahul Chavli 09/25/2025
Supervised By :Jagrut Upadhyay 09/25/2025



#42
2,4,6-Tribromophenol
Concen: 59.259 ng
RT: 15.889 min Scan# 2202
Delta R.T. -0.018 min
Lab File: BP025853.D
Acq: 24 Sep 2025 20:13

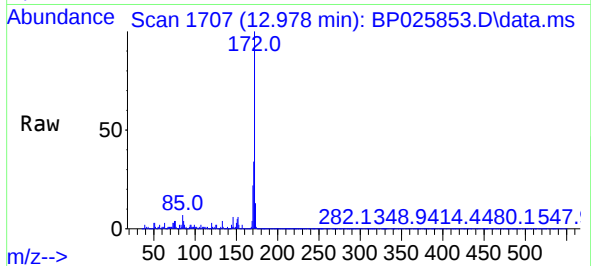
Tgt Ion:330 Resp: 397191
Ion Ratio Lower Upper
330 100
332 96.9 76.9 115.3
141 33.0 31.0 46.4





#45
2-Fluorobiphenyl
Concen: 21.234 ng
RT: 12.978 min Scan# 11
Delta R.T. -0.012 min
Lab File: BP025853.D
Acq: 24 Sep 2025 20:13

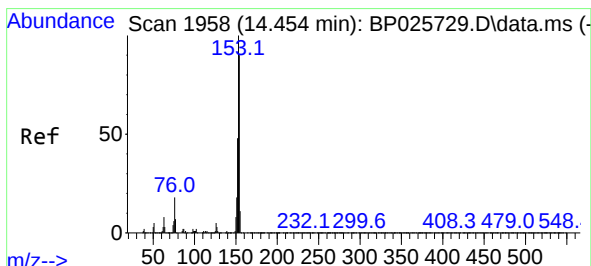
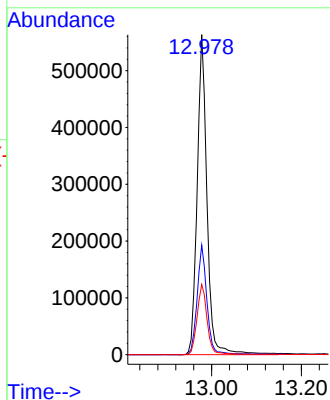
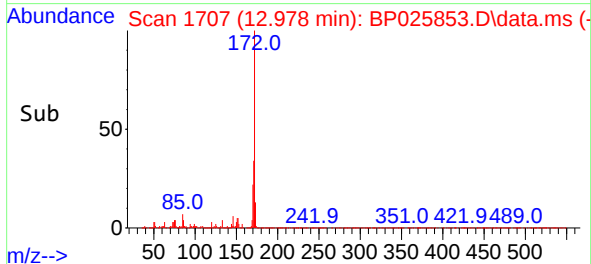
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ARS20-0010-Oily Soil-Sludge



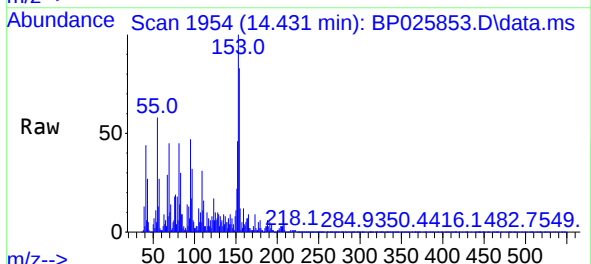
Tgt Ion:172 Resp: 856964
Ion Ratio Lower Upper
172 100
171 34.3 27.8 41.6
170 22.0 18.6 27.8

Manual Integrations
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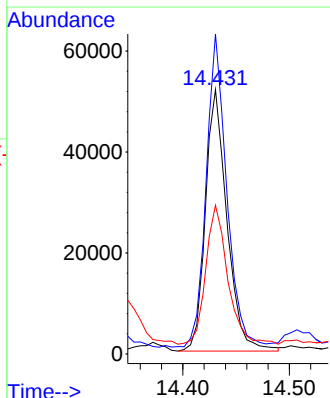
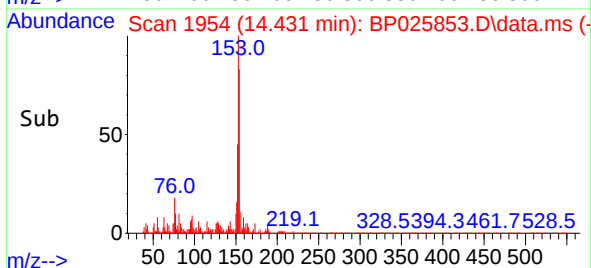
Reviewed By :Rahul Chavli 09/25/2025
Supervised By :Jagrut Upadhyay 09/25/2025

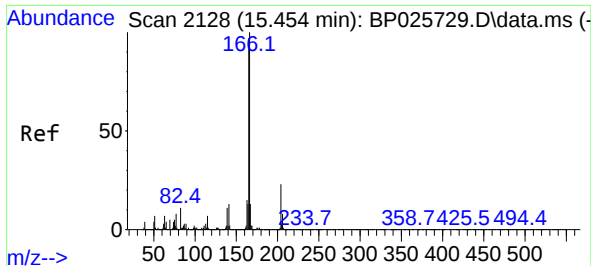


#52
Acenaphthene
Concen: 2.455 ng
RT: 14.431 min Scan# 1954
Delta R.T. -0.024 min
Lab File: BP025853.D
Acq: 24 Sep 2025 20:13



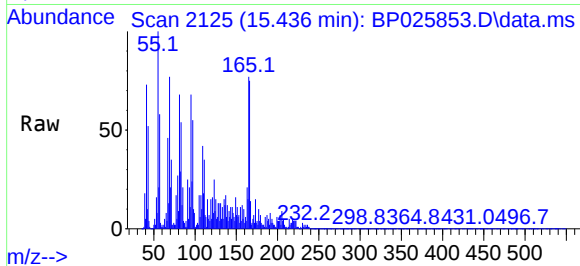
Tgt Ion:154 Resp: 72850
Ion Ratio Lower Upper
154 100
153 121.1 89.4 134.0
152 56.2 42.5 63.7





#58
Fluorene
Concen: 2.489 ng
RT: 15.436 min Scan# 2128
Delta R.T. -0.018 min
Lab File: BP025853.D
Acq: 24 Sep 2025 20:13

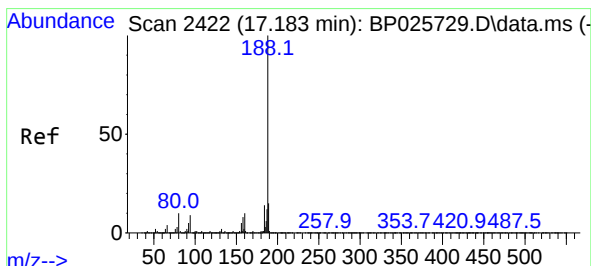
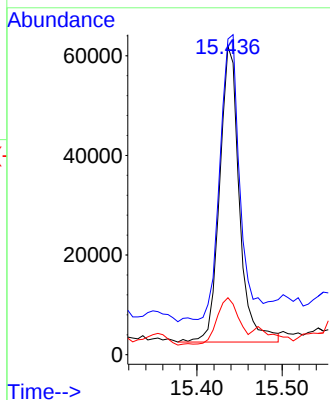
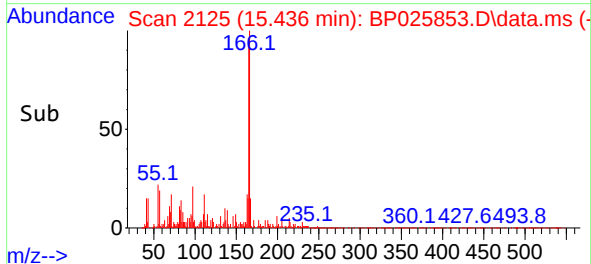
Instrument :
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ARS20-0010-Oily Soil-Sludge



Tgt Ion:166 Resp: 95723
Ion Ratio Lower Upper
166 100
165 102.4 77.7 116.5
167 18.5 10.6 16.0

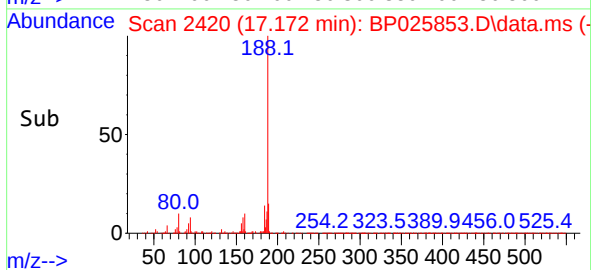
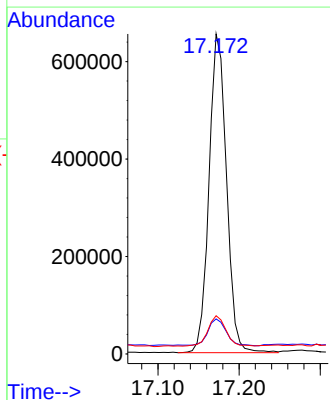
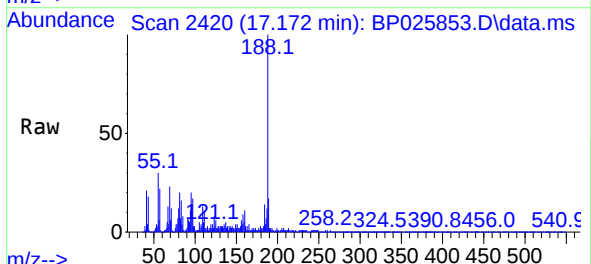
Manual Integrations
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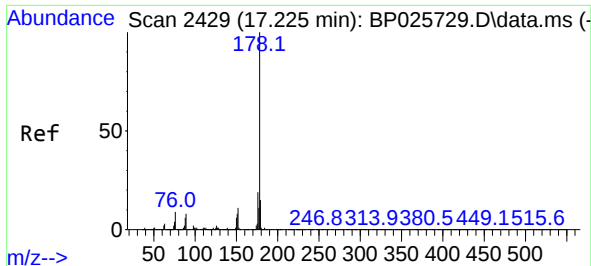
Reviewed By :Rahul Chavli 09/25/2025
Supervised By :Jagrut Upadhyay 09/25/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.172 min Scan# 2420
Delta R.T. -0.012 min
Lab File: BP025853.D
Acq: 24 Sep 2025 20:13

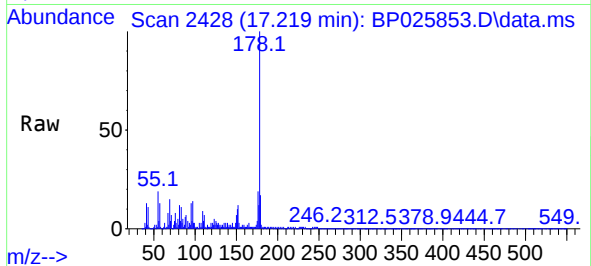
Tgt Ion:188 Resp: 976643
Ion Ratio Lower Upper
188 100
94 11.0 7.4 11.0
80 12.0 7.7 11.5





#71
Phenanthrene
Concen: 27.164 ng
RT: 17.219 min Scan# 2429
Delta R.T. -0.006 min
Lab File: BP025853.D
Acq: 24 Sep 2025 20:13

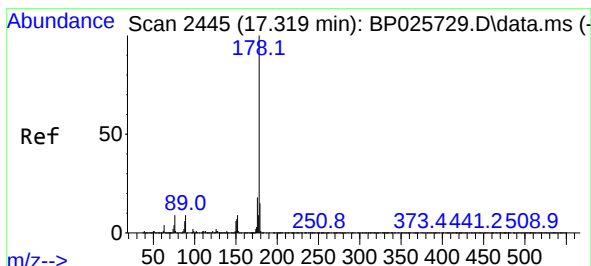
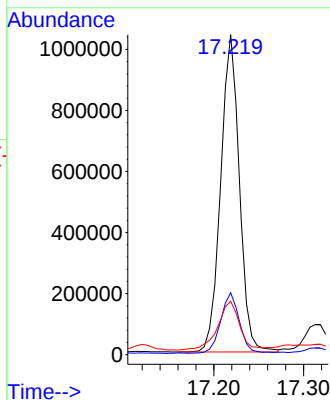
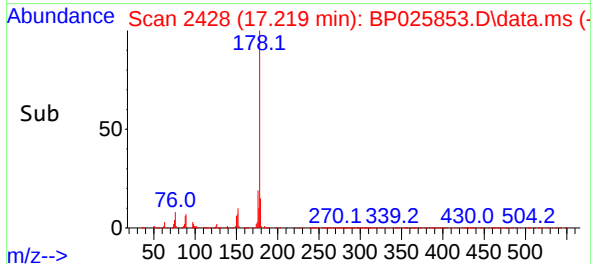
Instrument :
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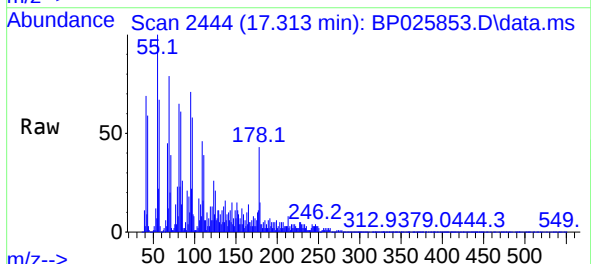
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Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 16.7 12.2 18.4

Manual Integrations
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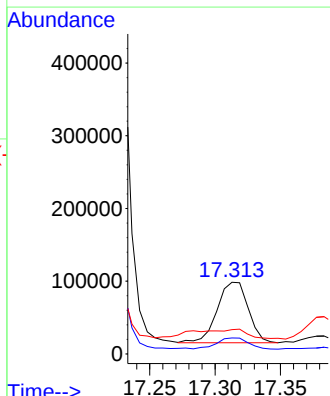
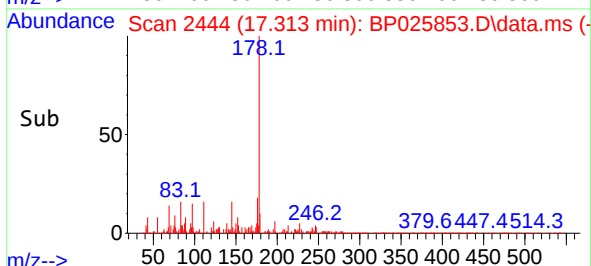
Reviewed By :Rahul Chavli 09/25/2025
Supervised By :Jagrut Upadhyay 09/25/2025

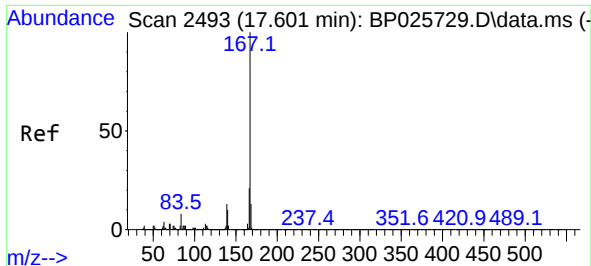


#72
Anthracene
Concen: 2.456 ng m
RT: 17.313 min Scan# 2444
Delta R.T. -0.006 min
Lab File: BP025853.D
Acq: 24 Sep 2025 20:13



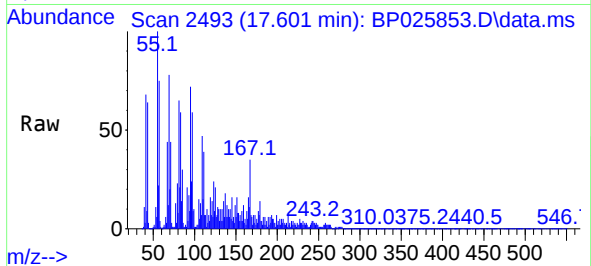
Tgt Ion:178 Resp: 138072
Ion Ratio Lower Upper
178 100
176 22.4 14.8 22.2#
179 34.0 12.2 18.4#





#73
 Carbazole
 Concen: 2.601 ng
 RT: 17.601 min Scan# 2493
 Delta R.T. -0.000 min
 Lab File: BP025853.D
 Acq: 24 Sep 2025 20:13

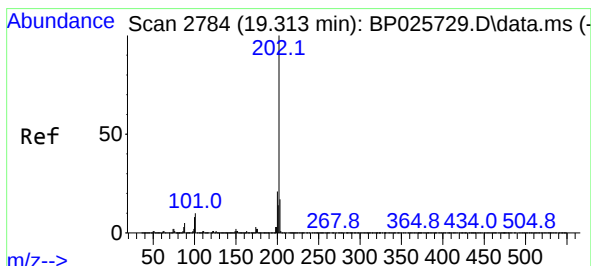
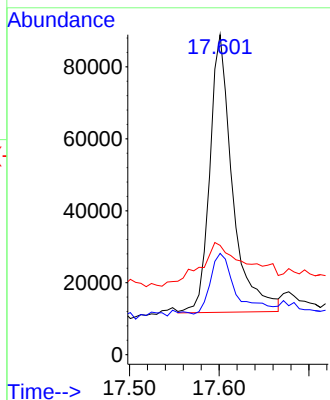
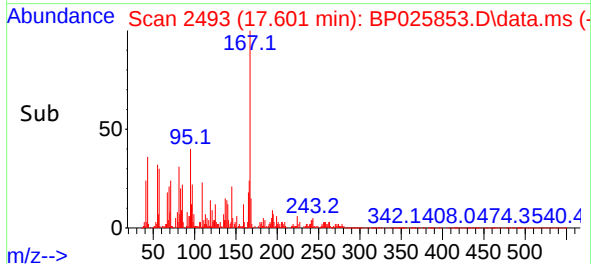
Instrument : BNA_P
 ClientSampleId : ARS20-0010-Oily Soil-Sludge



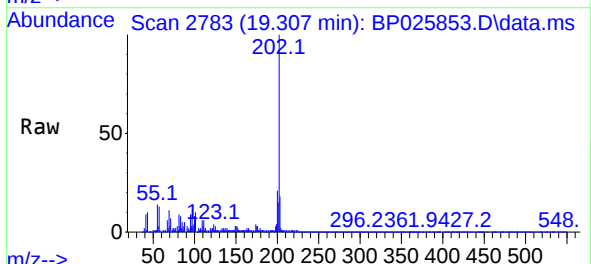
Tgt Ion:167 Resp: 135900
 Ion Ratio Lower Upper
 167 100
 166 31.6 17.0 25.4
 139 34.2 10.6 16.0

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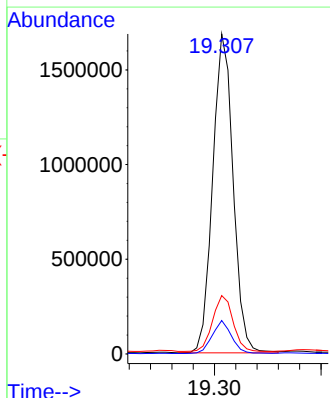
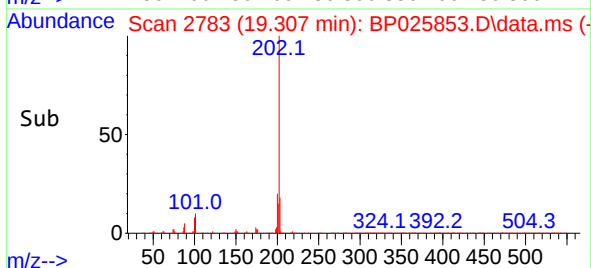
Reviewed By :Rahul Chavli 09/25/2025
 Supervised By :Jagrut Upadhyay 09/25/2025

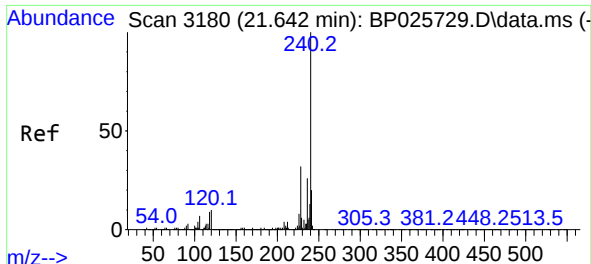


#75
 Fluoranthene
 Concen: 33.727 ng
 RT: 19.307 min Scan# 2783
 Delta R.T. -0.006 min
 Lab File: BP025853.D
 Acq: 24 Sep 2025 20:13



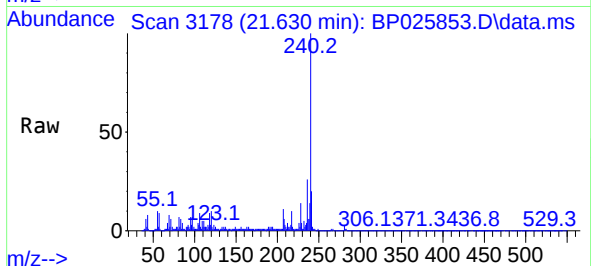
Tgt Ion:202 Resp: 2240922
 Ion Ratio Lower Upper
 202 100
 101 10.4 0.0 30.4
 203 18.2 0.0 37.4





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.630 min Scan# 3180
Delta R.T. -0.012 min
Lab File: BP025853.D
Acq: 24 Sep 2025 20:13

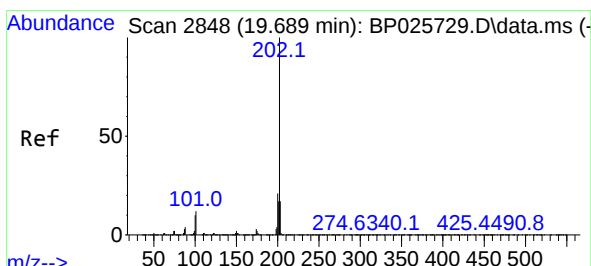
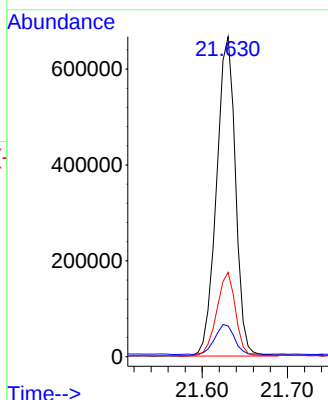
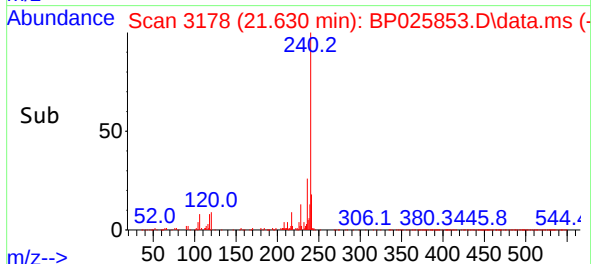
Instrument :
BNA_P
ClientSampleId :
ARS20-0010-Oily Soil-Sludge



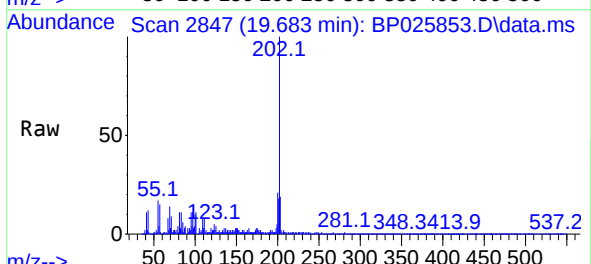
Tgt Ion:240 Resp: 1032484
Ion Ratio Lower Upper
240 100
120 9.6 8.0 12.0
236 26.3 20.7 31.1

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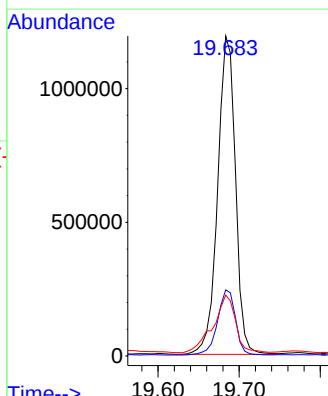
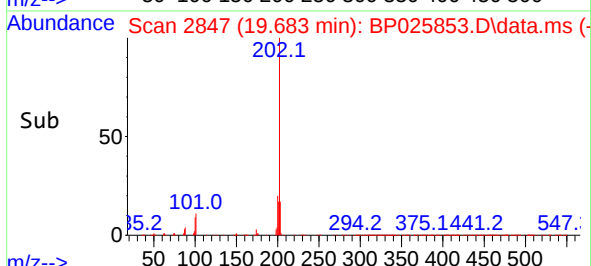
Reviewed By :Rahul Chavli 09/25/2025
Supervised By :Jagrut Upadhyay 09/25/2025

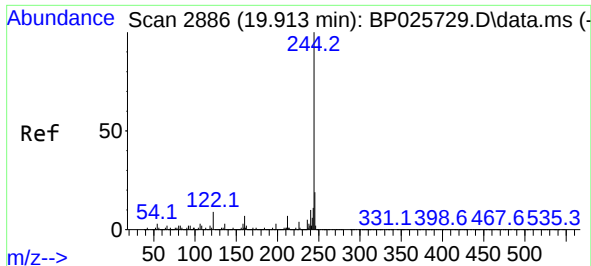


#78
Pyrene
Concen: 26.446 ng
RT: 19.683 min Scan# 2847
Delta R.T. -0.006 min
Lab File: BP025853.D
Acq: 24 Sep 2025 20:13



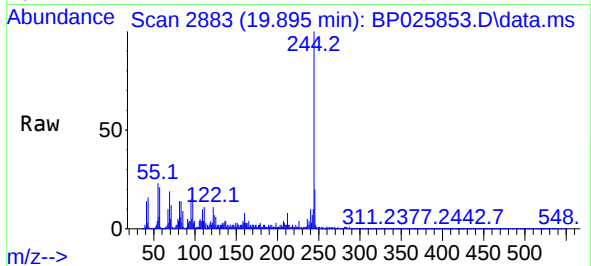
Tgt Ion:202 Resp: 1821928
Ion Ratio Lower Upper
202 100
200 20.7 17.0 25.6
203 19.0 13.9 20.9





#79
Terphenyl-d14
Concen: 19.701 ng
RT: 19.895 min Scan# 21
Delta R.T. -0.018 min
Lab File: BP025853.D
Acq: 24 Sep 2025 20:13

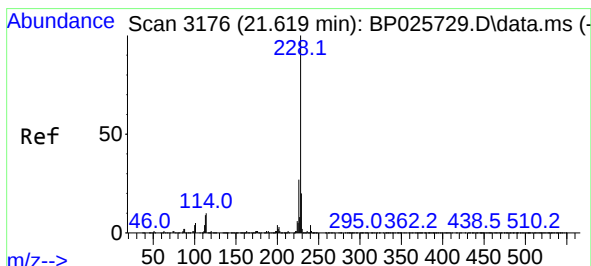
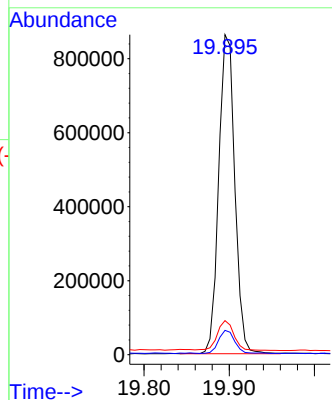
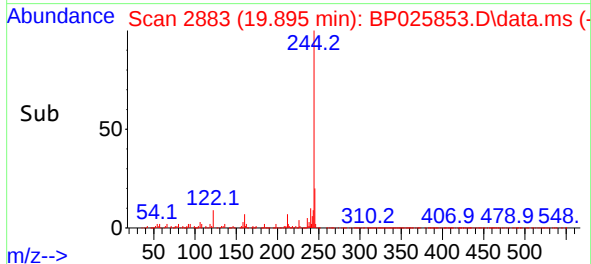
Instrument :
BNA_P
ClientSampleId :
ARS20-0010-Oily Soil-Sludge



Tgt Ion:244 Resp: 113067
Ion Ratio Lower Upper
244 100
212 7.6 5.9 8.9
122 10.6 7.1 10.7

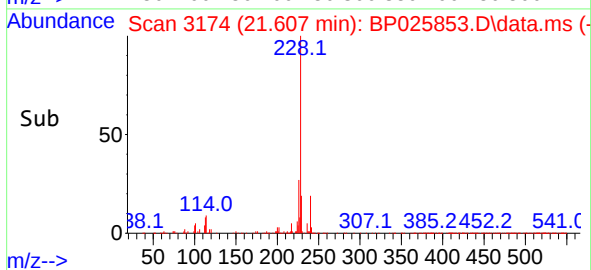
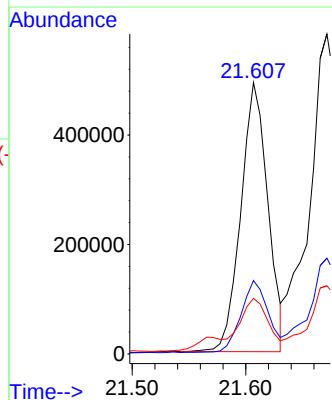
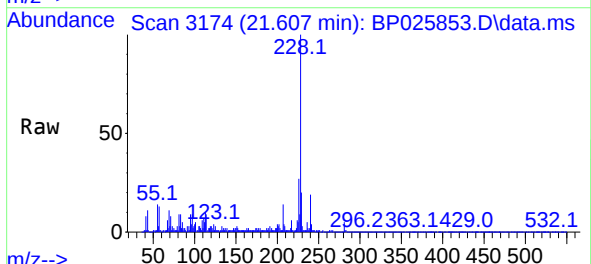
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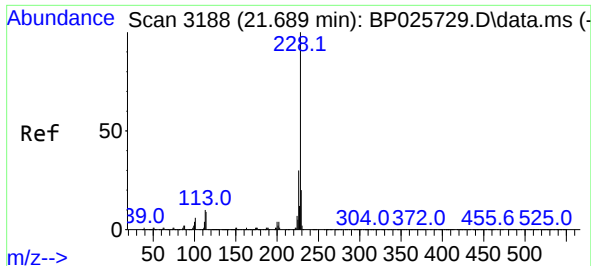
Reviewed By :Rahul Chavli 09/25/2025
Supervised By :Jagrut Upadhyay 09/25/2025



#81
Benzo(a)anthracene
Concen: 11.481 ng
RT: 21.607 min Scan# 3174
Delta R.T. -0.012 min
Lab File: BP025853.D
Acq: 24 Sep 2025 20:13

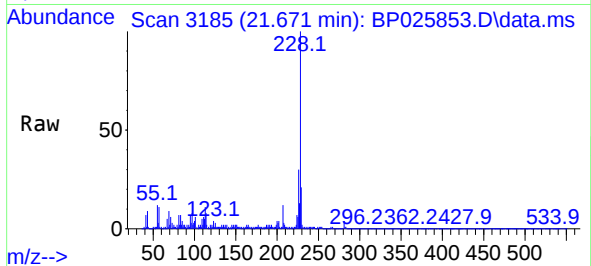
Tgt Ion:228 Resp: 811511
Ion Ratio Lower Upper
228 100
226 27.1 21.6 32.4
229 20.5 15.7 23.5





#83
Chrysene
Concen: 15.250 ng
RT: 21.671 min Scan# 3188
Delta R.T. -0.018 min
Lab File: BP025853.D
Acq: 24 Sep 2025 20:13

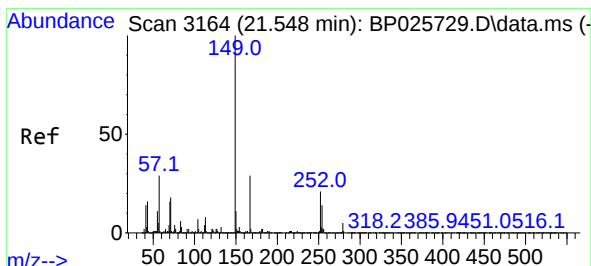
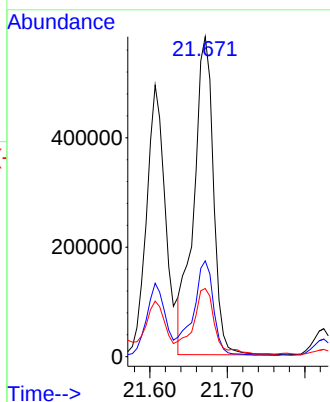
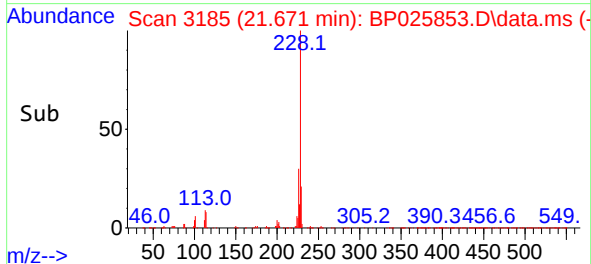
Instrument :
BNA_P
ClientSampleId :
ARS20-0010-Oily Soil-Sludge



Tgt Ion:228 Resp: 102755
Ion Ratio Lower Upper
228 100
226 29.9 23.8 35.6
229 21.3 15.6 23.4

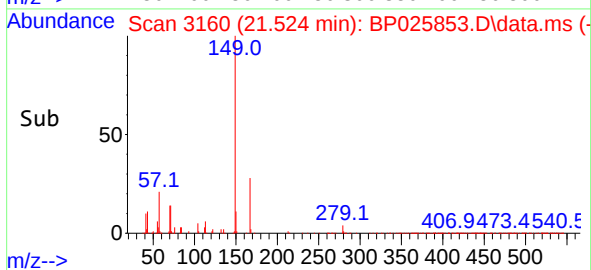
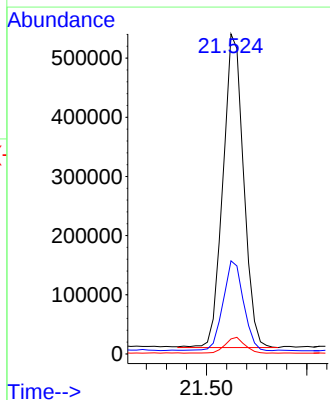
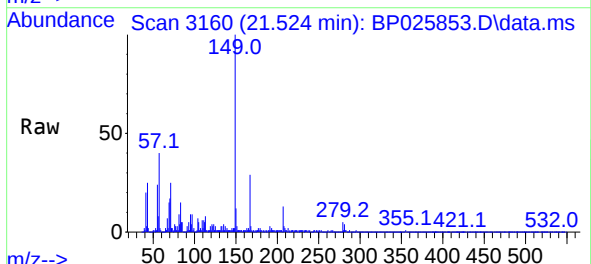
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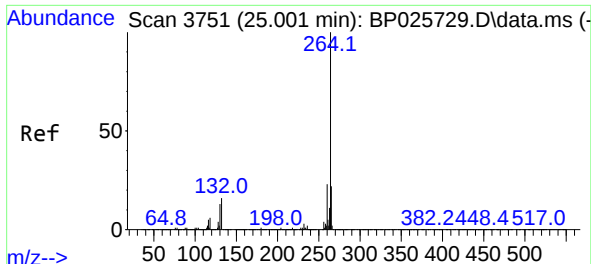
Reviewed By :Rahul Chavli 09/25/2025
Supervised By :Jagrut Upadhyay 09/25/2025



#84
Bis(2-ethylhexyl)phthalate
Concen: 17.105 ng
RT: 21.524 min Scan# 3160
Delta R.T. -0.024 min
Lab File: BP025853.D
Acq: 24 Sep 2025 20:13

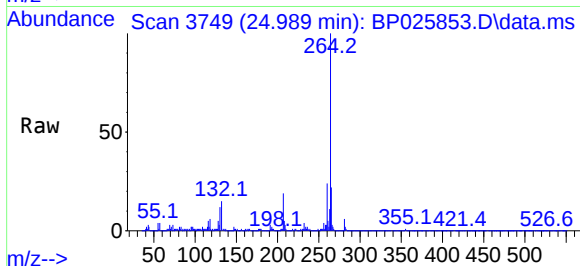
Tgt Ion:149 Resp: 755943
Ion Ratio Lower Upper
149 100
167 29.1 22.9 34.3
279 4.7 3.8 5.8





#86
Perylene-d12
Concen: 20.000 ng
RT: 24.989 min Scan# 31
Delta R.T. -0.012 min
Lab File: BP025853.D
Acq: 24 Sep 2025 20:13

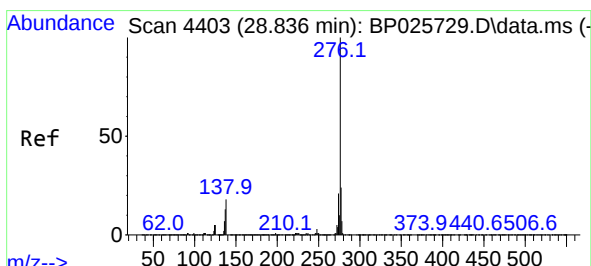
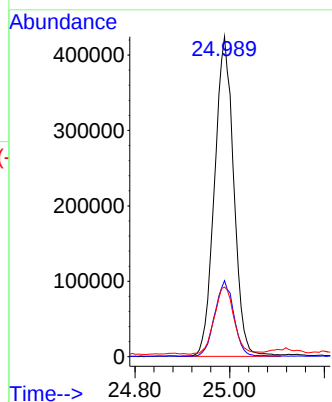
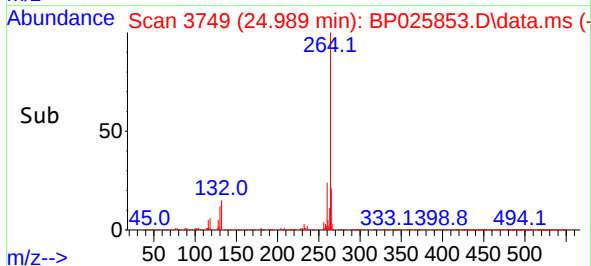
Instrument :
BNA_P
ClientSampleId :
ARS20-0010-Oily Soil-Sludge



Tgt Ion:264 Resp: 118901
Ion Ratio Lower Upper
264 100
260 23.7 18.3 27.5
265 21.8 17.3 25.9

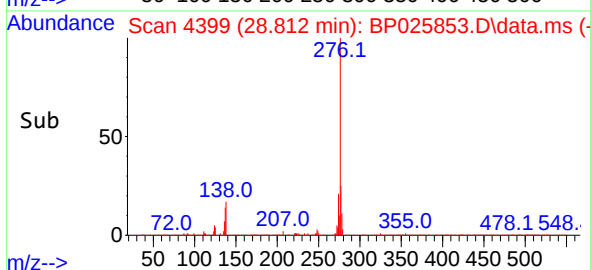
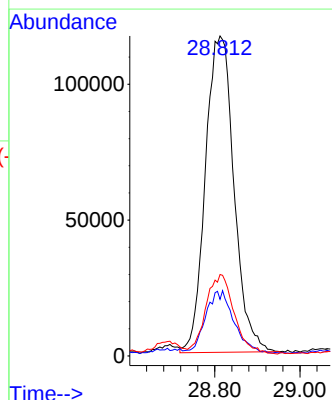
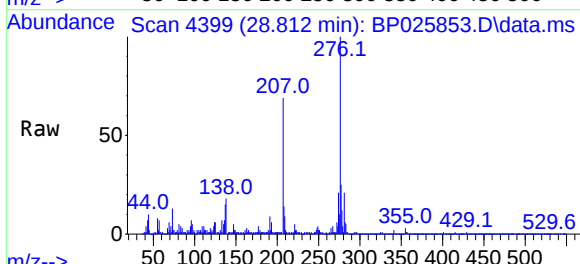
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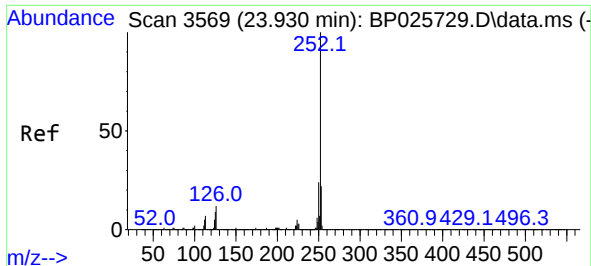
Reviewed By :Rahul Chavli 09/25/2025
Supervised By :Jagrut Upadhyay 09/25/2025



#87
Indeno(1,2,3-cd)pyrene
Concen: 6.272 ng
RT: 28.812 min Scan# 4399
Delta R.T. -0.024 min
Lab File: BP025853.D
Acq: 24 Sep 2025 20:13

Tgt Ion:276 Resp: 542361
Ion Ratio Lower Upper
276 100
138 19.4 13.4 20.2
277 24.9 9.1 13.7#





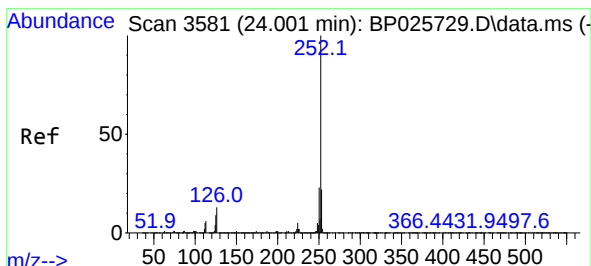
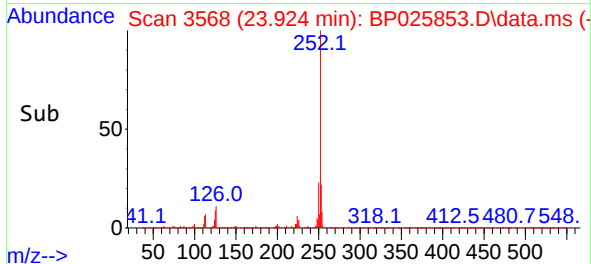
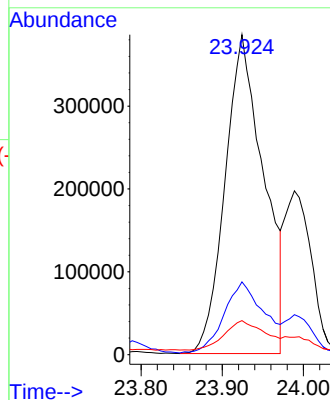
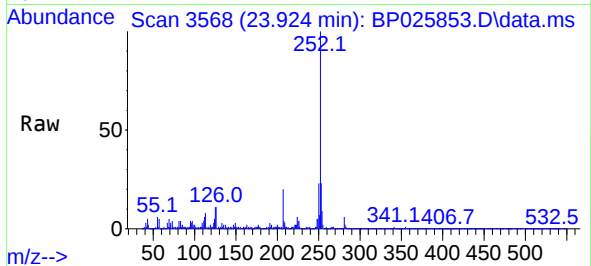
#88
Benzo(b)fluoranthene
Concen: 17.443 ng
RT: 23.924 min Scan# 3569
Delta R.T. -0.006 min
Lab File: BP025853.D
Acq: 24 Sep 2025 20:13

Instrument :
BNA_P
ClientSampleId :
ARS20-0010-Oily Soil-Sludge

Tgt Ion:252 Resp: 1268270
Ion Ratio Lower Upper
252 100
253 22.8 17.9 26.9
125 10.7 7.3 10.9

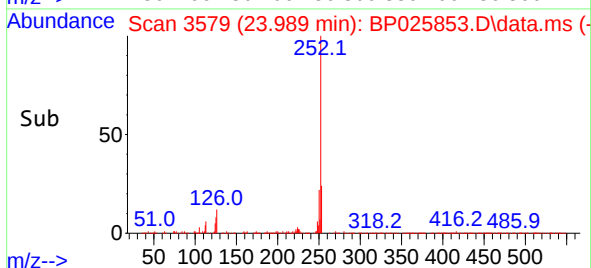
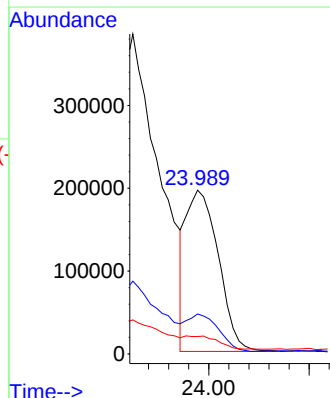
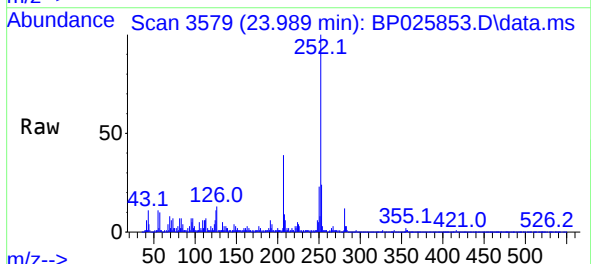
Manual Integrations
APPROVED

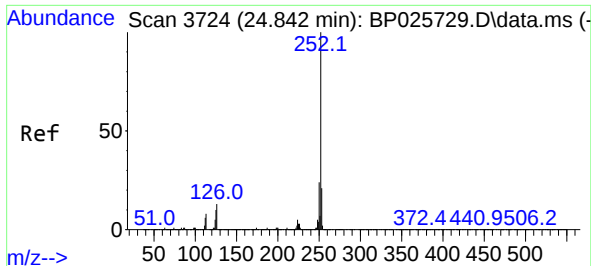
Reviewed By :Rahul Chavli 09/25/2025
Supervised By :Jagrut Upadhyay 09/25/2025



#89
Benzo(k)fluoranthene
Concen: 5.869 ng m
RT: 23.989 min Scan# 3579
Delta R.T. -0.012 min
Lab File: BP025853.D
Acq: 24 Sep 2025 20:13

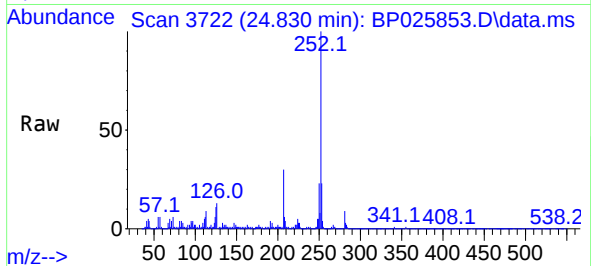
Tgt Ion:252 Resp: 435488
Ion Ratio Lower Upper
252 100
253 24.4 17.5 26.3
125 10.6 7.5 11.3





#90
Benzo(a)pyrene
Concen: 10.793 ng
RT: 24.830 min Scan# 31
Delta R.T. -0.012 min
Lab File: BP025853.D
Acq: 24 Sep 2025 20:13

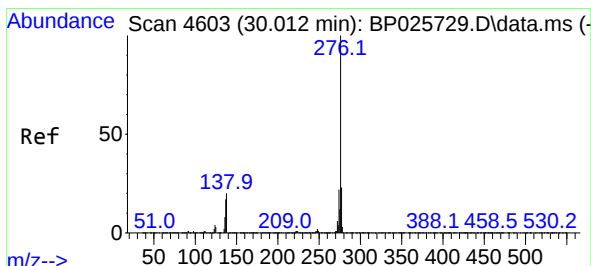
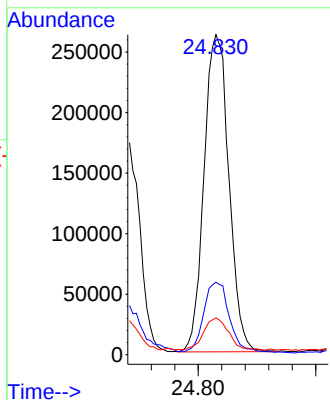
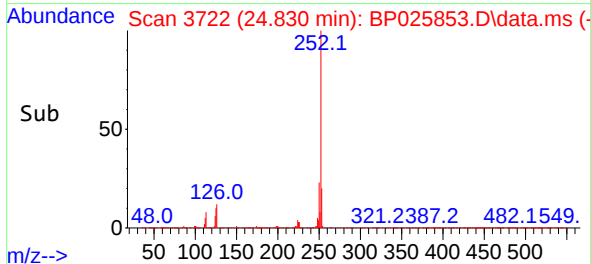
Instrument :
BNA_P
ClientSampleId :
ARS20-0010-Oily Soil-Sludge



Tgt Ion:252 Resp: 768529
Ion Ratio Lower Upper
252 100
253 22.7 17.2 25.8
125 11.5 8.3 12.5

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Reviewed By :Rahul Chavli 09/25/2025
Supervised By :Jagrut Upadhyay 09/25/2025



#92
Benzo(g,h,i)perylene
Concen: 7.538 ng
RT: 30.006 min Scan# 4602
Delta R.T. -0.006 min
Lab File: BP025853.D
Acq: 24 Sep 2025 20:13

Tgt Ion:276 Resp: 524579
Ion Ratio Lower Upper
276 100
277 24.6 18.7 28.1
138 19.0 16.0 24.0

