

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101525\
 Data File : BF143970.D
 Acq On : 15 Oct 2025 23:47
 Operator : RC/JU
 Sample : Q3343-01 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-ROLLOFF-WC-1

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 10/16/2025
 Supervised By :Jagrut Upadhyay 10/16/2025

Quant Time: Oct 16 11:13:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 06 15:29:47 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	173198	20.00	ng	0.00
21) Naphthalene-d8	8.163	136	576795	20.00	ng	0.00
39) Acenaphthene-d10	9.922	164	285924	20.00	ng	0.00
64) Phenanthrene-d10	11.416	188	568177	20.00	ng	0.00
76) Chrysene-d12	14.068	240	467990	20.00	ng	0.00
86) Perylene-d12	15.557	264	402069	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	134387	12.32	ng	0.00
7) Phenol-d6	6.498	99	147013	11.31	ng	-0.02
23) Nitrobenzene-d5	7.439	82	74907	7.89	ng	-0.02
42) 2,4,6-Tribromophenol	10.716	330	31413	11.03	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	142996	7.94	ng	-0.01
79) Terphenyl-d14	13.004	244	199498	7.29	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.187	128	84265	3.21	ng	99
37) 2-Methylnaphthalene	8.881	142	88174	5.04	ng	98
38) 1-Methylnaphthalene	8.981	142	93685	5.53	ng	97
49) Acenaphthylene	9.786	152	119575	5.39	ng	96
52) Acenaphthene	9.957	154	30583	2.10	ng	92
58) Fluorene	10.475	166	113372	7.32	ng	96
71) Phenanthrene	11.445	178	783366	28.44	ng	98
72) Anthracene	11.492	178	156875	5.64	ng	99
75) Fluoranthene	12.639	202	694299	24.40	ng	99
78) Pyrene	12.869	202	1078115	27.63	ng	98
81) Benzo(a)anthracene	14.057	228	409222	13.36	ng	# 89
83) Chrysene	14.098	228	450688	15.90	ng	95
87) Indeno(1,2,3-cd)pyrene	17.057	276	88603	3.60	ng	98
88) Benzo(b)fluoranthene	15.121	252	253588m	10.98	ng	
89) Benzo(k)fluoranthene	15.139	252	64375m	3.01	ng	
90) Benzo(a)pyrene	15.492	252	201732	10.07	ng	# 94
92) Benzo(g,h,i)perylene	17.509	276	100127	5.05	ng	# 94

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

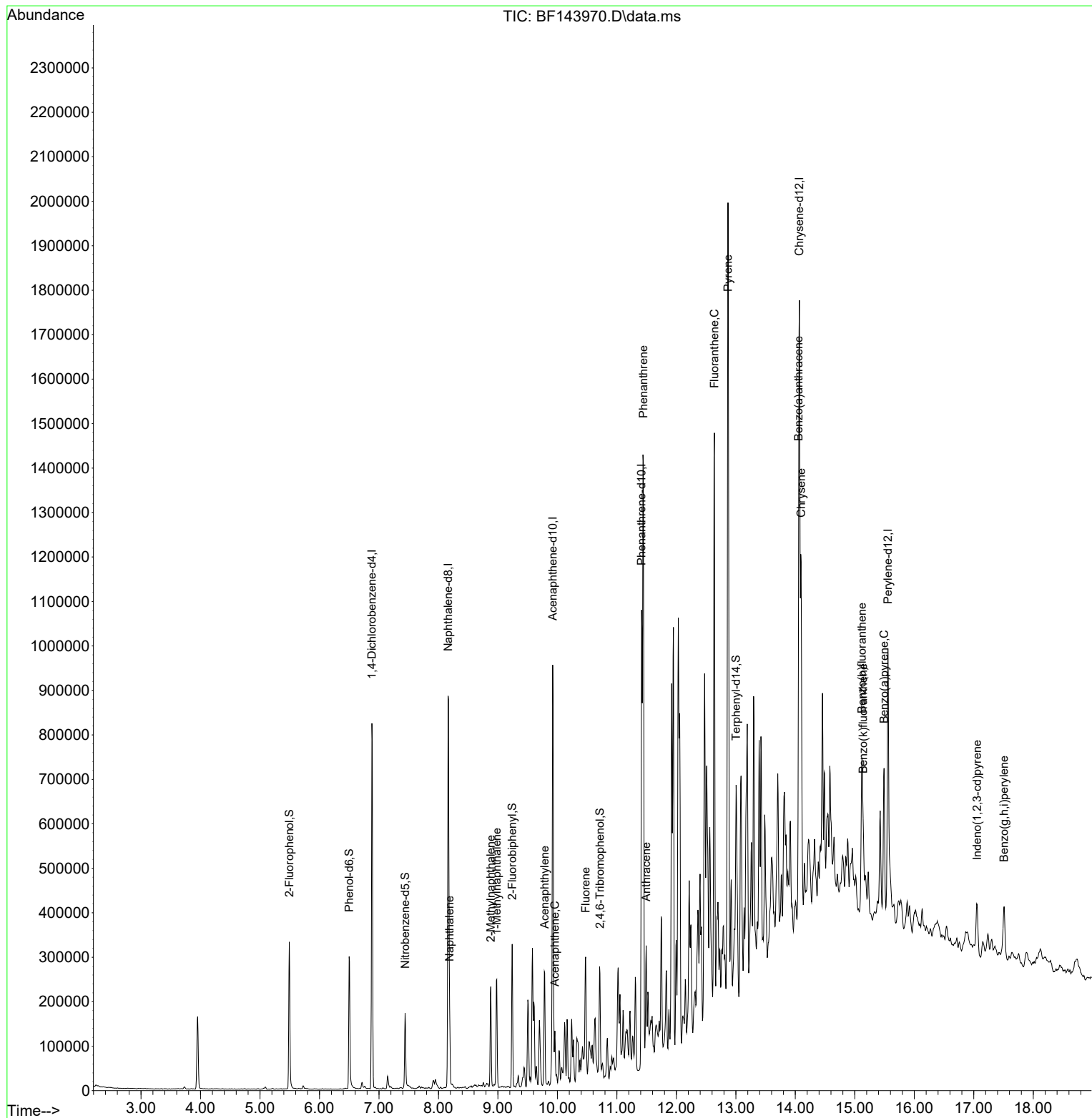
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101525\
Data File : BF143970.D
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ALS Vial : 21 Sample Multiplier: 1

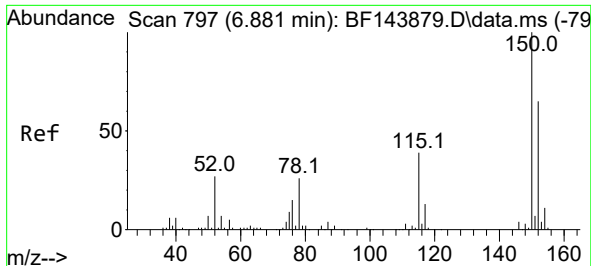
Instrument :
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ClientSampleId :
SOIL-ROLLOFF-WC-1

Quant Time: Oct 16 11:13:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 06 15:29:47 2025
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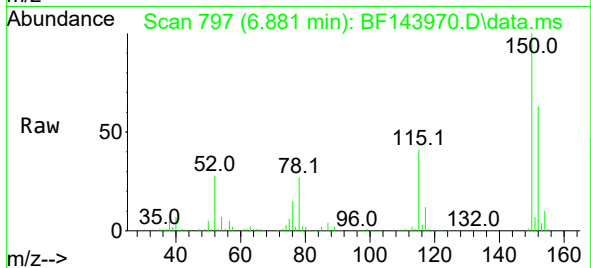
Reviewed By :Rahul Chavli 10/16/2025
Supervised By :Jagrut Upadhyay 10/16/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.881 min Scan# 797
Delta R.T. -0.005 min
Lab File: BF143970.D
Acq: 15 Oct 2025 23:47

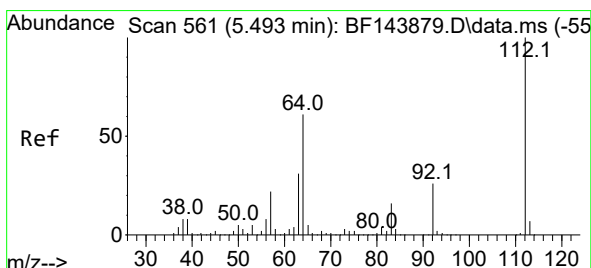
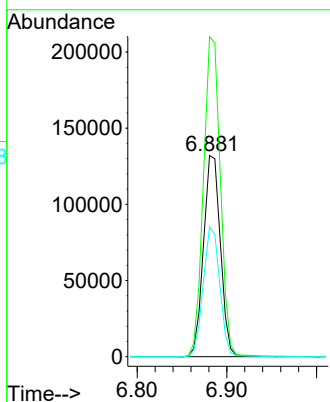
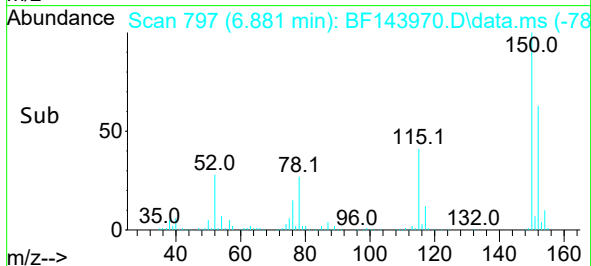
Instrument :
BNA_F
ClientSampleId :
SOIL-ROLLOFF-WC-1



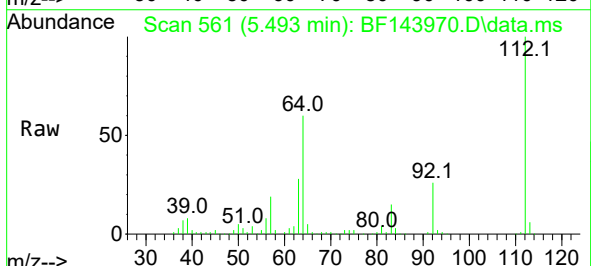
Tgt Ion:152 Resp: 173198
Ion Ratio Lower Upper
152 100
150 159.0 124.4 186.6
115 64.4 48.1 72.1

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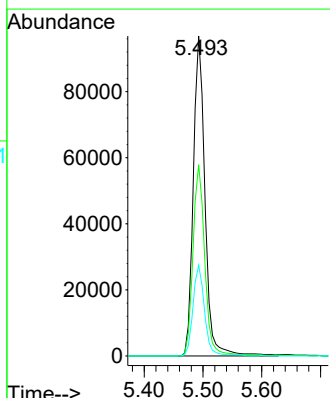
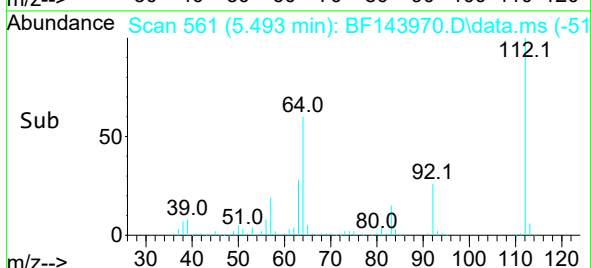
Reviewed By :Rahul Chavli 10/16/2025
Supervised By :Jagrut Upadhyay 10/16/2025

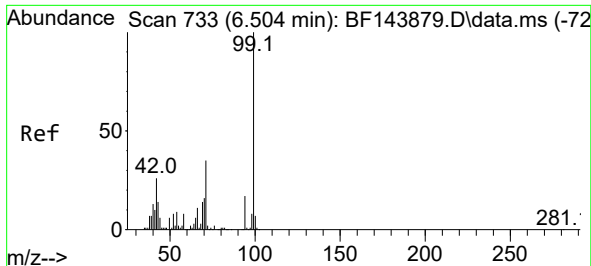


#5
2-Fluorophenol
Concen: 12.32 ng
RT: 5.493 min Scan# 561
Delta R.T. -0.006 min
Lab File: BF143970.D
Acq: 15 Oct 2025 23:47



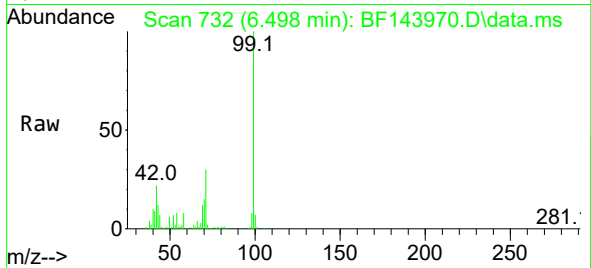
Tgt Ion:112 Resp: 134387
Ion Ratio Lower Upper
112 100
64 59.8 49.1 73.7
63 28.4 24.5 36.7





#7
Phenol-d6
Concen: 11.31 ng
RT: 6.498 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF143970.D
Acq: 15 Oct 2025 23:47

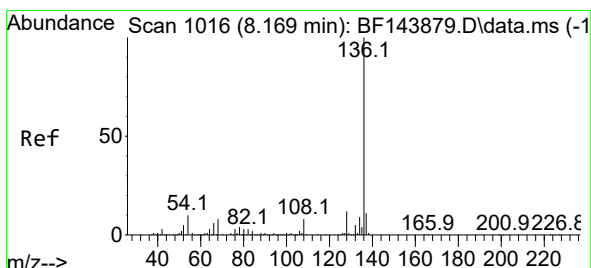
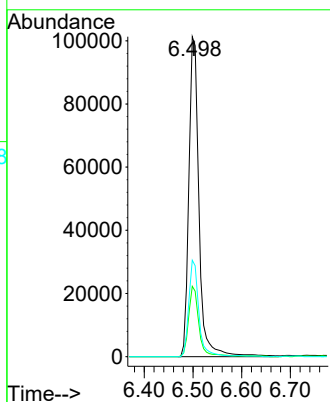
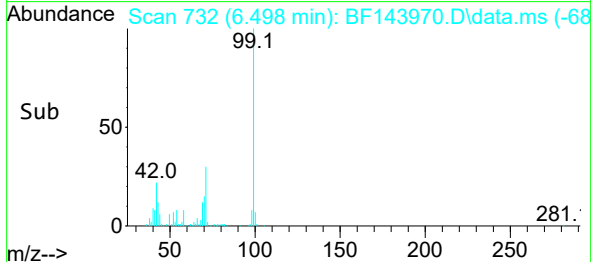
Instrument :
BNA_F
ClientSampleId :
SOIL-ROLLOFF-WC-1



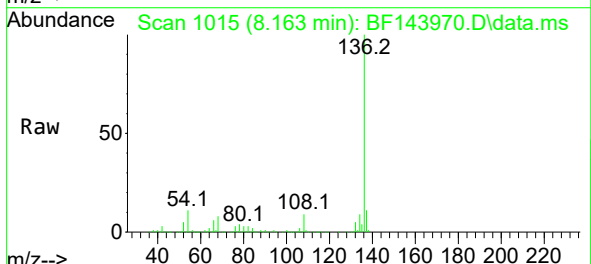
Tgt Ion: 99 Resp: 14701
Ion Ratio Lower Upper
99 100
42 22.0 21.0 31.4
71 30.1 27.8 41.8

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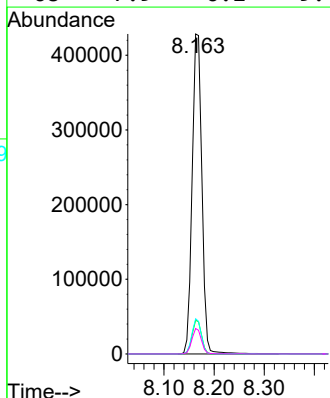
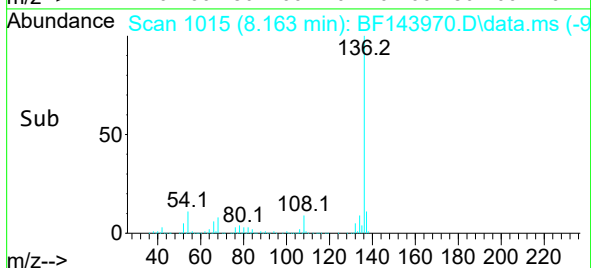
Reviewed By :Rahul Chavli 10/16/2025
Supervised By :Jagrut Upadhyay 10/16/2025

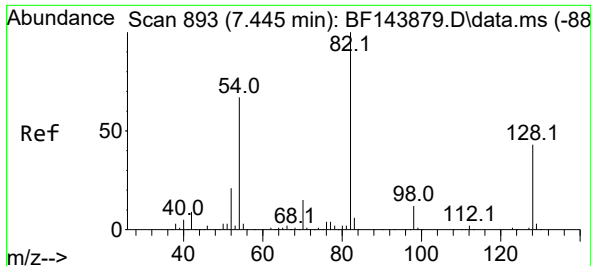


#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF143970.D
Acq: 15 Oct 2025 23:47



Tgt Ion:136 Resp: 576795
Ion Ratio Lower Upper
136 100
137 10.5 8.5 12.7
54 11.0 8.2 12.4
68 7.9 6.2 9.4





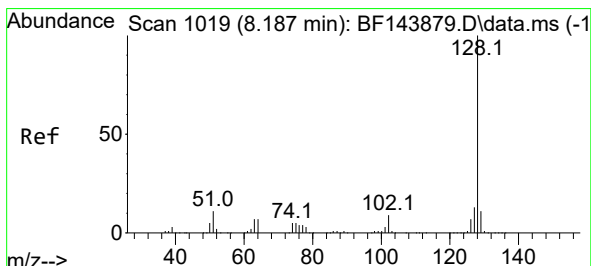
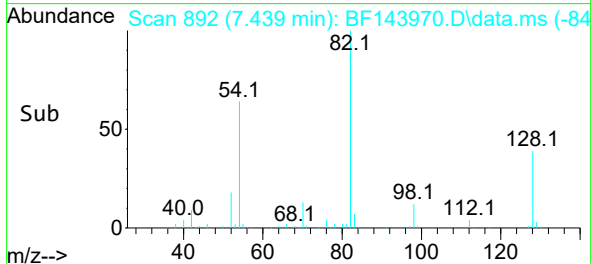
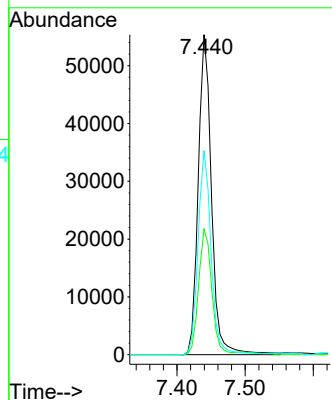
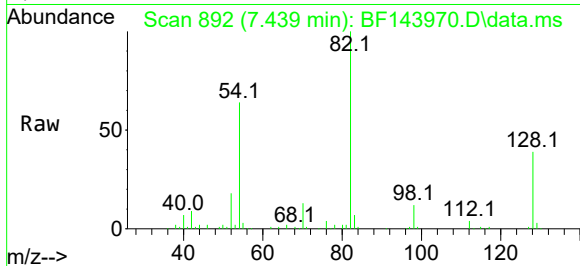
#23
Nitrobenzene-d5
Concen: 7.89 ng
RT: 7.439 min Scan# 893
Delta R.T. -0.018 min
Lab File: BF143970.D
Acq: 15 Oct 2025 23:47

Instrument :
BNA_F
ClientSampleId :
SOIL-ROLLOFF-WC-1

Tgt Ion: 82 Resp: 7490
Ion Ratio Lower Upper
82 100
128 39.2 34.0 51.0
54 63.7 53.2 79.8

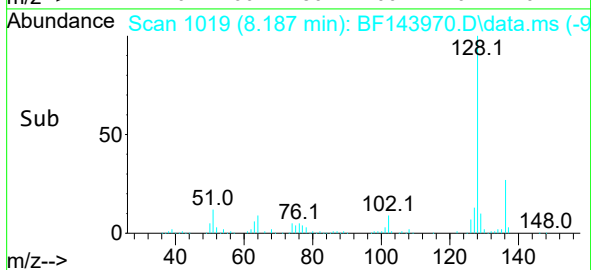
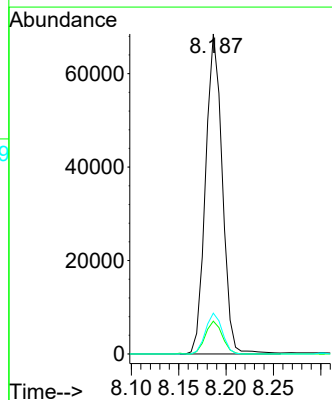
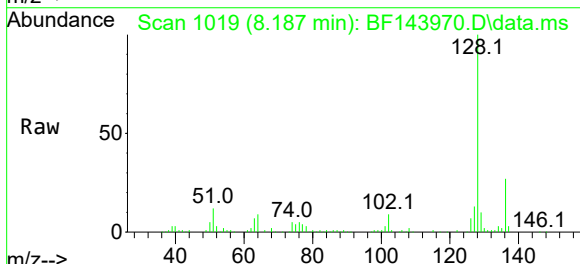
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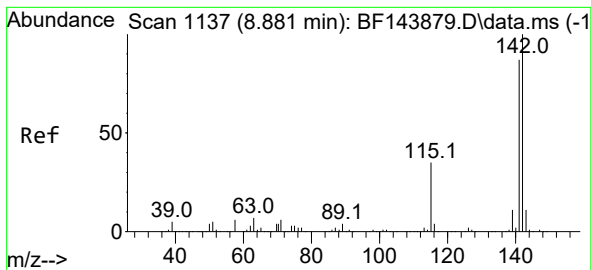
Reviewed By :Rahul Chavli 10/16/2025
Supervised By :Jagrut Upadhyay 10/16/2025



#31
Naphthalene
Concen: 3.21 ng
RT: 8.187 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF143970.D
Acq: 15 Oct 2025 23:47

Tgt Ion:128 Resp: 84265
Ion Ratio Lower Upper
128 100
129 10.3 8.7 13.1
127 12.7 10.0 15.0





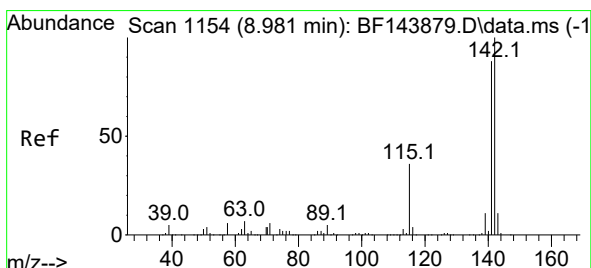
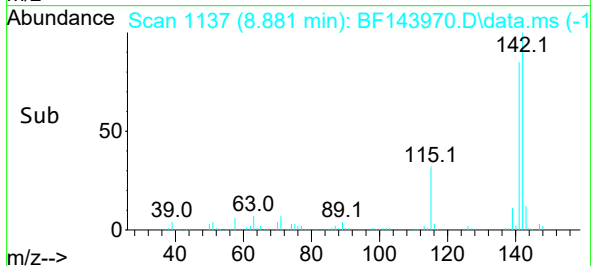
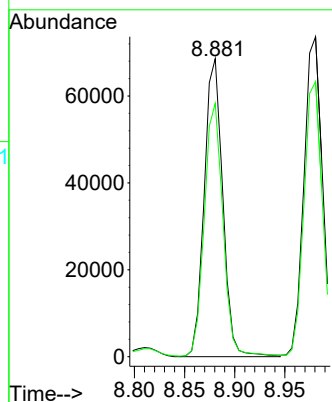
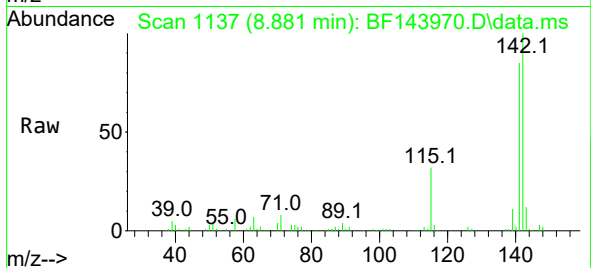
#37
2-Methylnaphthalene
Concen: 5.04 ng
RT: 8.881 min Scan# 1137
Delta R.T. -0.006 min
Lab File: BF143970.D
Acq: 15 Oct 2025 23:47

Instrument :
BNA_F
ClientSampleId :
SOIL-ROLLOFF-WC-1

Tgt Ion:142 Resp: 88174
Ion Ratio Lower Upper
142 100
141 85.0 69.2 103.8

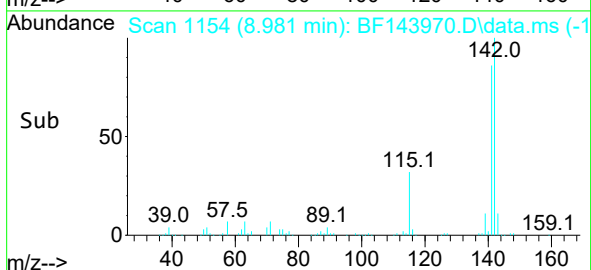
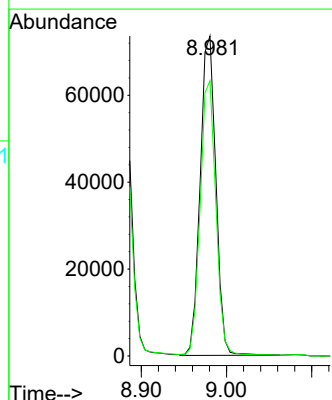
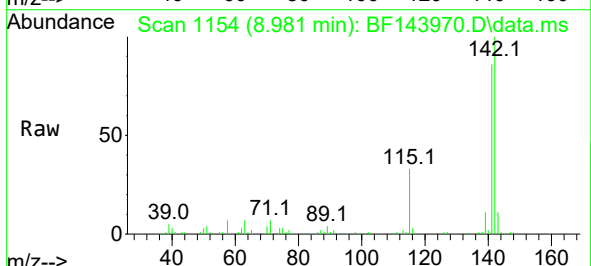
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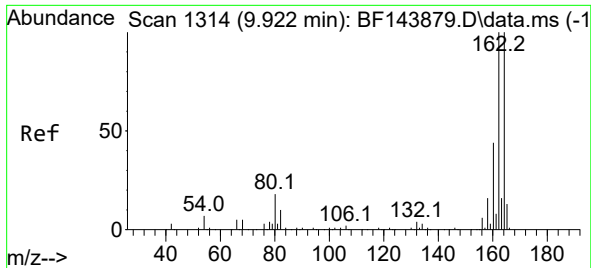
Reviewed By :Rahul Chavli 10/16/2025
Supervised By :Jagrut Upadhyay 10/16/2025



#38
1-Methylnaphthalene
Concen: 5.53 ng
RT: 8.981 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BF143970.D
Acq: 15 Oct 2025 23:47

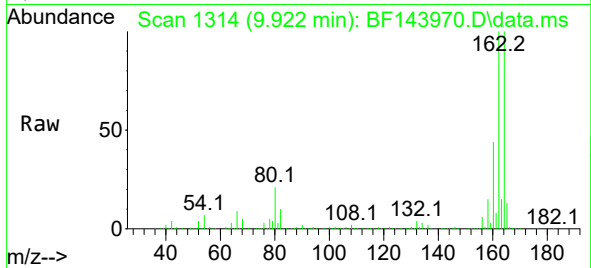
Tgt Ion:142 Resp: 93685
Ion Ratio Lower Upper
142 100
141 86.0 70.8 106.2





#39
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.922 min Scan# 11
Delta R.T. -0.005 min
Lab File: BF143970.D
Acq: 15 Oct 2025 23:47

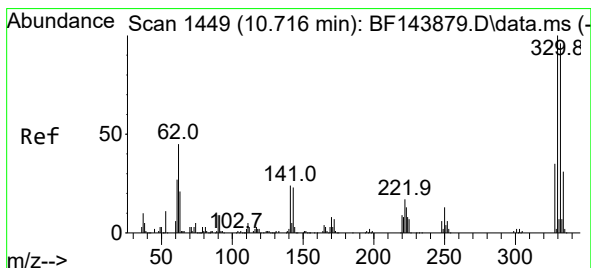
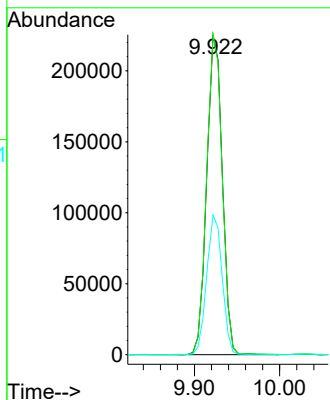
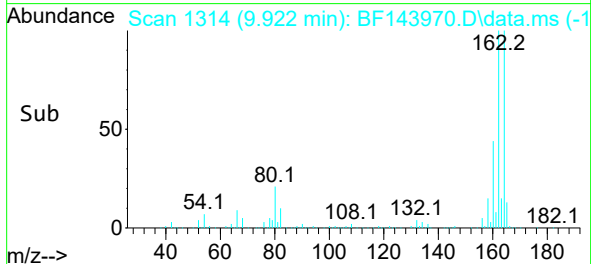
Instrument :
BNA_F
ClientSampleId :
SOIL-ROLLOFF-WC-1



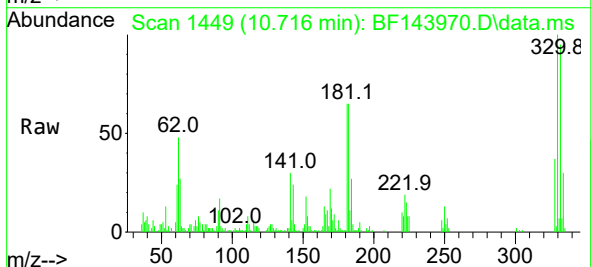
Tgt Ion:164 Resp: 285924
Ion Ratio Lower Upper
164 100
162 100.1 80.2 120.2
160 43.7 35.4 53.0

Manual Integrations
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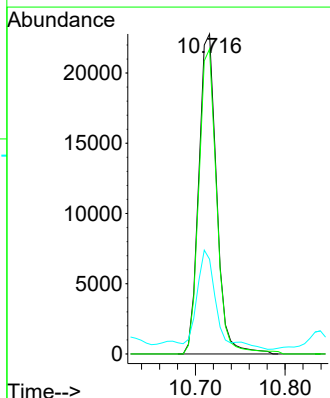
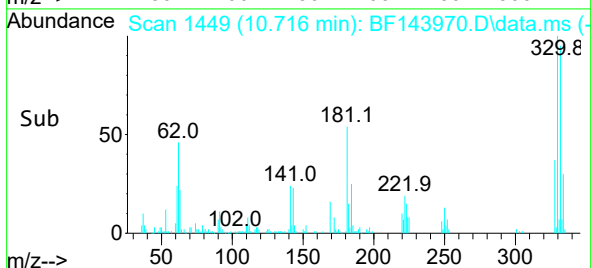
Reviewed By :Rahul Chavli 10/16/2025
Supervised By :Jagrut Upadhyay 10/16/2025

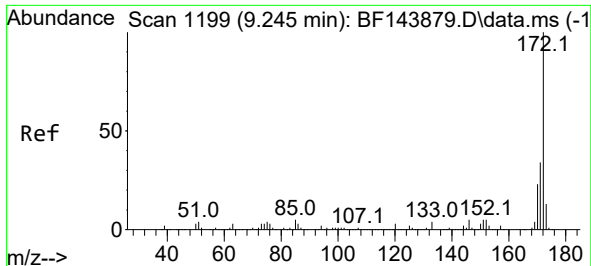


#42
2,4,6-Tribromophenol
Concen: 11.03 ng
RT: 10.716 min Scan# 1449
Delta R.T. -0.006 min
Lab File: BF143970.D
Acq: 15 Oct 2025 23:47



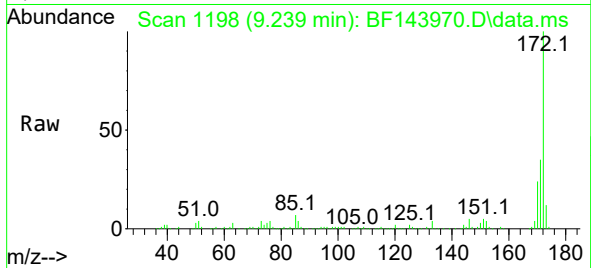
Tgt Ion:330 Resp: 31413
Ion Ratio Lower Upper
330 100
332 95.4 76.9 115.3
141 33.5 20.2 30.4#





#45
2-Fluorobiphenyl
Concen: 7.94 ng
RT: 9.239 min Scan# 1199
Delta R.T. -0.012 min
Lab File: BF143970.D
Acq: 15 Oct 2025 23:47

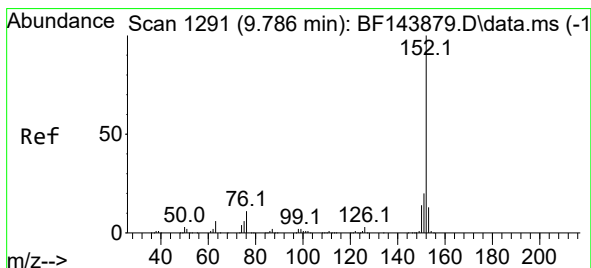
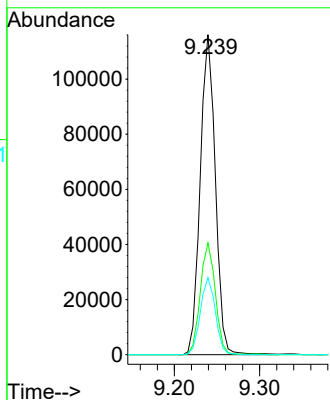
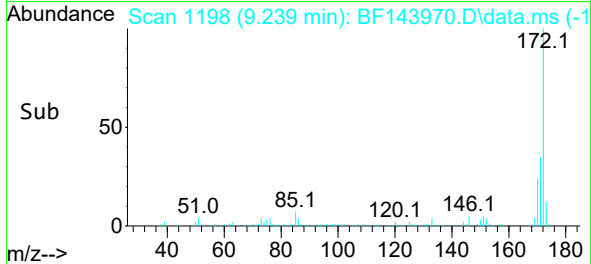
Instrument :
BNA_F
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SOIL-ROLLOFF-WC-1



Tgt Ion:172 Resp: 142990
Ion Ratio Lower Upper
172 100
171 34.9 27.4 41.0
170 24.0 18.6 28.0

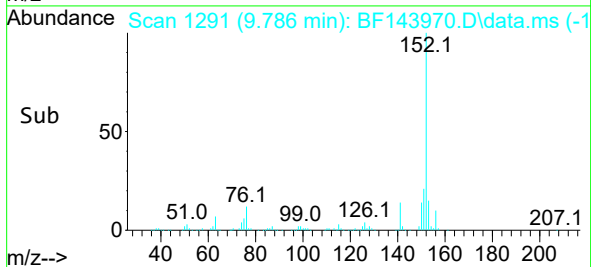
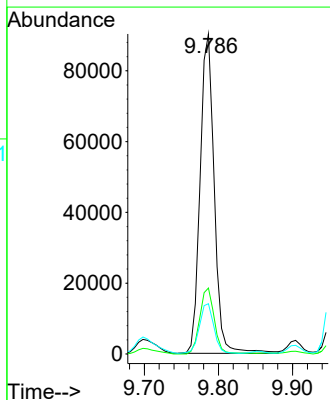
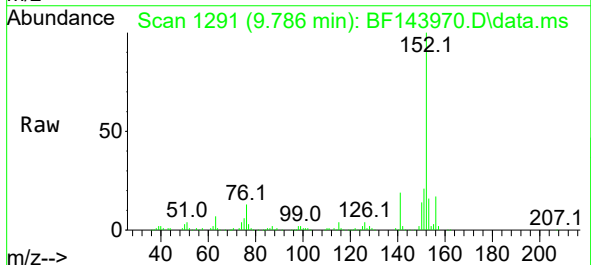
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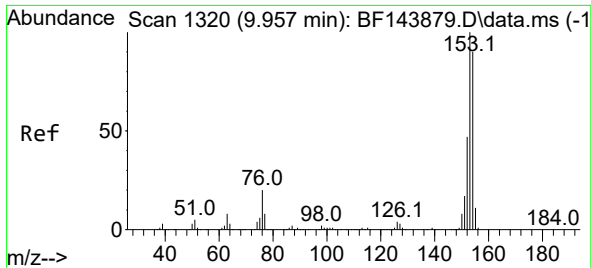
Reviewed By :Rahul Chavli 10/16/2025
Supervised By :Jagrut Upadhyay 10/16/2025



#49
Acenaphthylene
Concen: 5.39 ng
RT: 9.786 min Scan# 1291
Delta R.T. 0.000 min
Lab File: BF143970.D
Acq: 15 Oct 2025 23:47

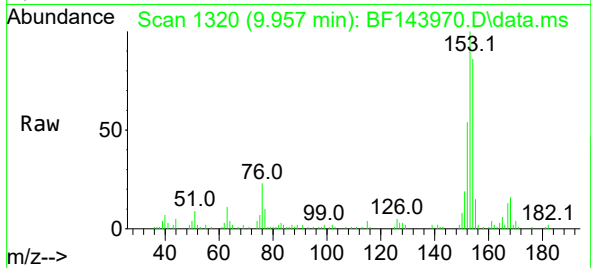
Tgt Ion:152 Resp: 119575
Ion Ratio Lower Upper
152 100
151 20.6 15.8 23.6
153 15.7 10.5 15.7





#52
Acenaphthene
Concen: 2.10 ng
RT: 9.957 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143970.D
Acq: 15 Oct 2025 23:47

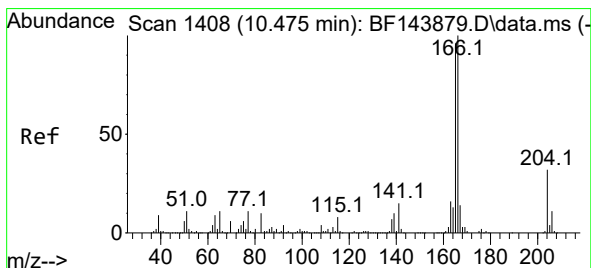
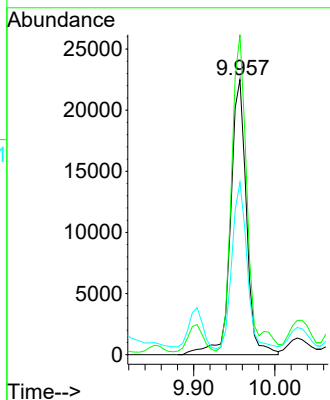
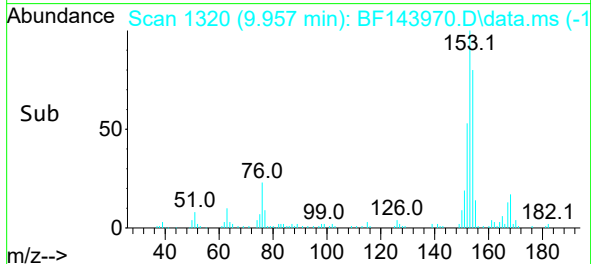
Instrument :
BNA_F
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SOIL-ROLLOFF-WC-1



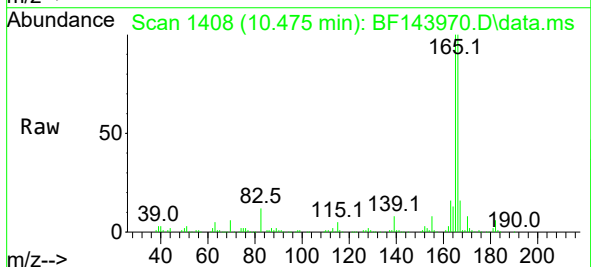
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Ion Ratio Lower Upper
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153 116.4 89.3 133.9
152 62.7 42.2 63.2

Manual Integrations
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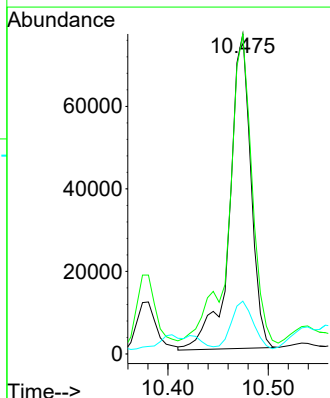
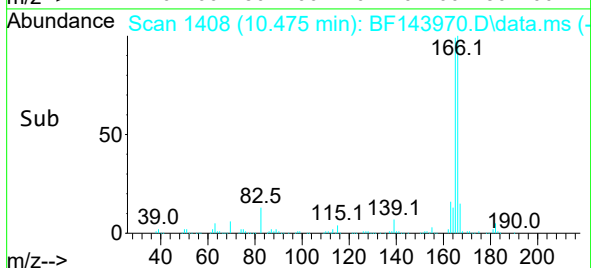
Reviewed By :Rahul Chavli 10/16/2025
Supervised By :Jagrut Upadhyay 10/16/2025

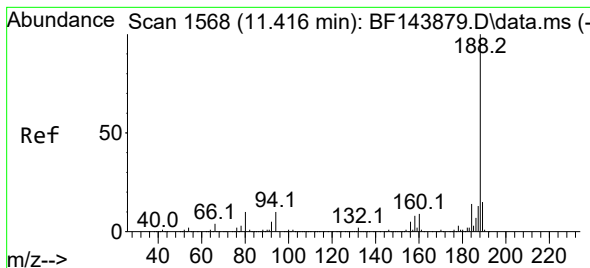


#58
Fluorene
Concen: 7.32 ng
RT: 10.475 min Scan# 1408
Delta R.T. -0.006 min
Lab File: BF143970.D
Acq: 15 Oct 2025 23:47



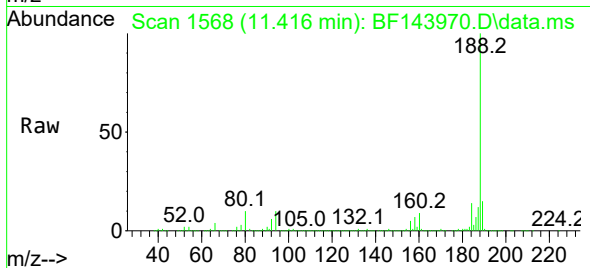
Tgt Ion:166 Resp: 113372
Ion Ratio Lower Upper
166 100
165 99.9 77.0 115.6
167 16.5 11.1 16.7





#64
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.416 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143970.D
Acq: 15 Oct 2025 23:47

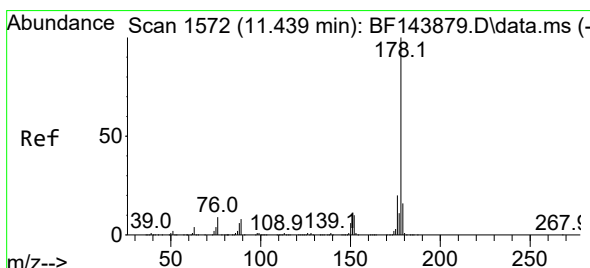
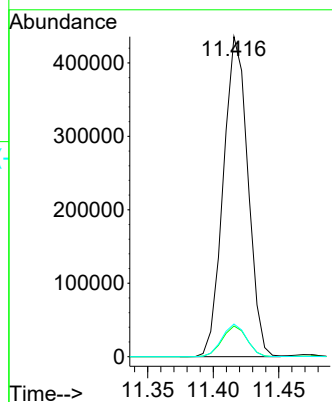
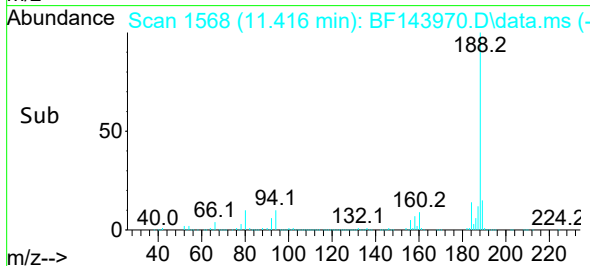
Instrument :
BNA_F
ClientSampleId :
SOIL-ROLLOFF-WC-1



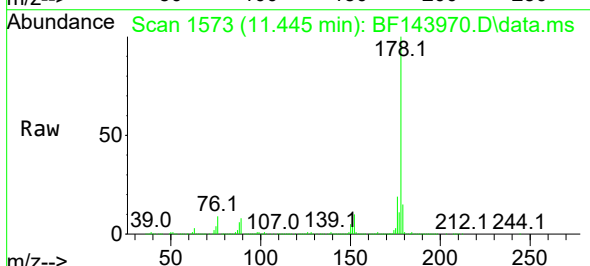
Tgt Ion:188 Resp: 56817
Ion Ratio Lower Upper
188 100
94 9.6 7.8 11.6
80 10.2 7.9 11.9

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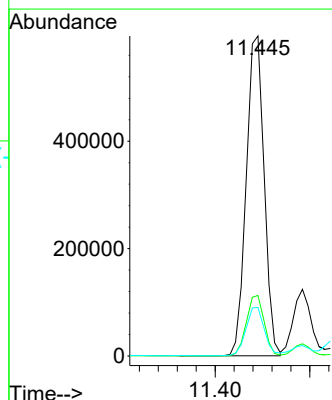
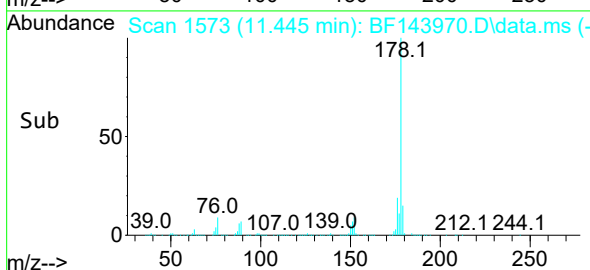
Reviewed By :Rahul Chavli 10/16/2025
Supervised By :Jagrut Upadhyay 10/16/2025

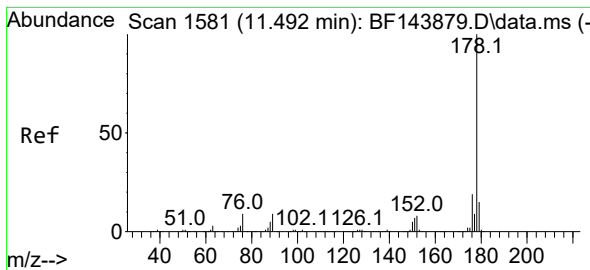


#71
Phenanthrene
Concen: 28.44 ng
RT: 11.445 min Scan# 1573
Delta R.T. 0.000 min
Lab File: BF143970.D
Acq: 15 Oct 2025 23:47



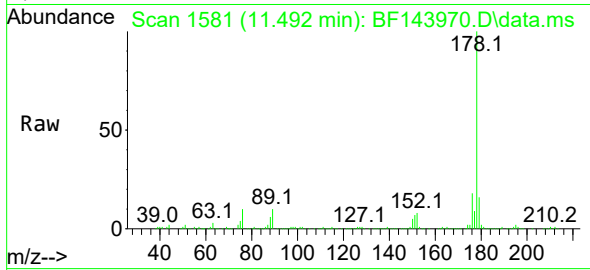
Tgt Ion:178 Resp: 783366
Ion Ratio Lower Upper
178 100
176 18.9 15.9 23.9
179 15.2 12.4 18.6





#72
 Anthracene
 Concen: 5.64 ng
 RT: 11.492 min Scan# 15687
 Delta R.T. -0.006 min
 Lab File: BF143970.D
 Acq: 15 Oct 2025 23:47

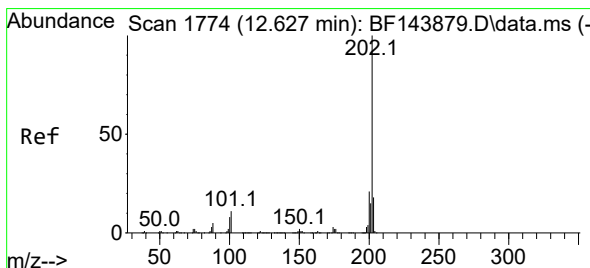
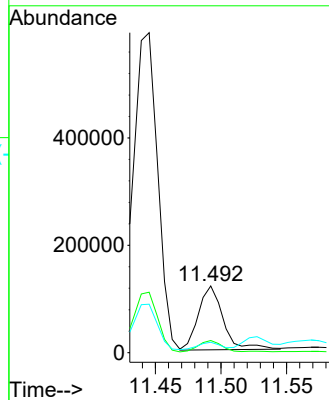
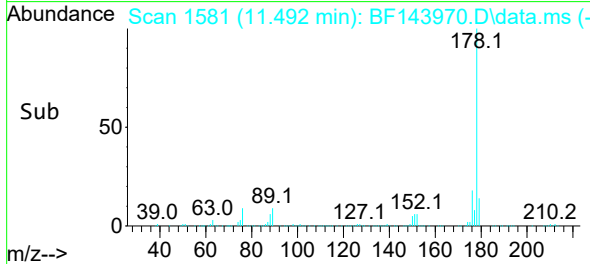
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-ROLLOFF-WC-1



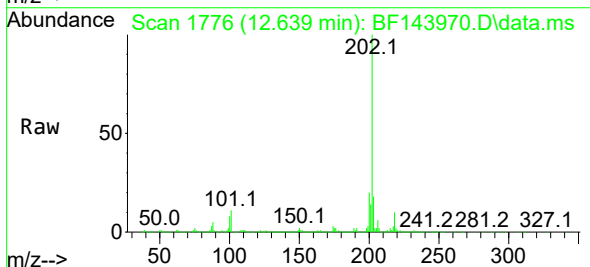
Tgt Ion:178 Resp: 15687
 Ion Ratio Lower Upper
 178 100
 176 18.2 14.9 22.3
 179 15.6 12.2 18.2

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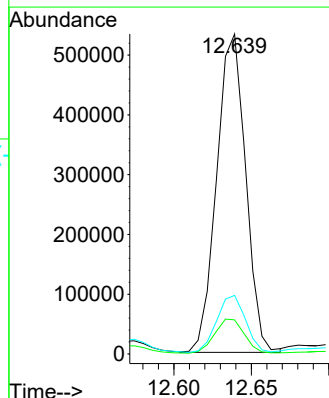
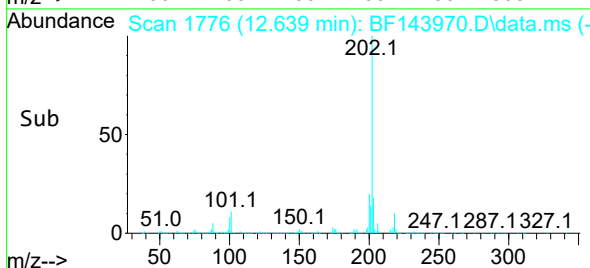
Reviewed By :Rahul Chavli 10/16/2025
 Supervised By :Jagrut Upadhyay 10/16/2025

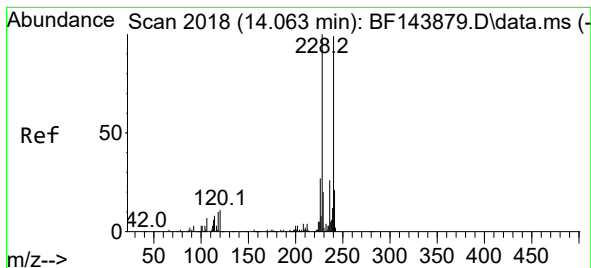


#75
 Fluoranthene
 Concen: 24.40 ng
 RT: 12.639 min Scan# 1776
 Delta R.T. 0.006 min
 Lab File: BF143970.D
 Acq: 15 Oct 2025 23:47



Tgt Ion:202 Resp: 694299
 Ion Ratio Lower Upper
 202 100
 101 10.7 0.0 30.7
 203 18.3 0.0 37.8





#76

Chrysene-d12

Concen: 20.00 ng

RT: 14.068 min Scan# 2018

Delta R.T. 0.000 min

Lab File: BF143970.D

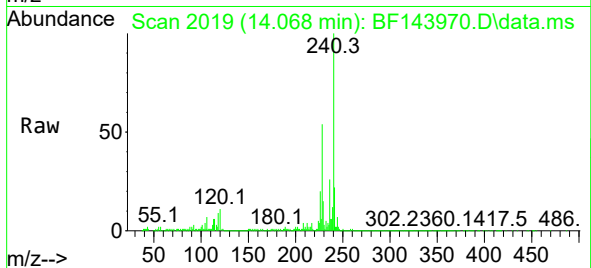
Acq: 15 Oct 2025 23:47

Instrument :

BNA_F

ClientSampleId :

SOIL-ROLLOFF-WC-1



Tgt Ion:240 Resp: 467990

Ion Ratio Lower Upper

240 100

120 10.6 8.6 13.0

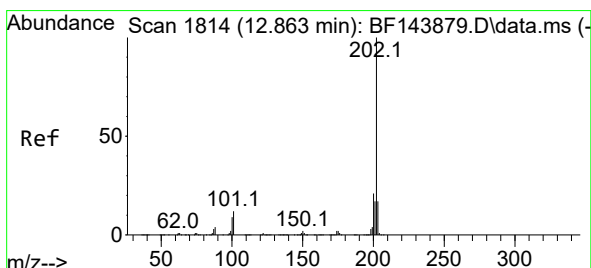
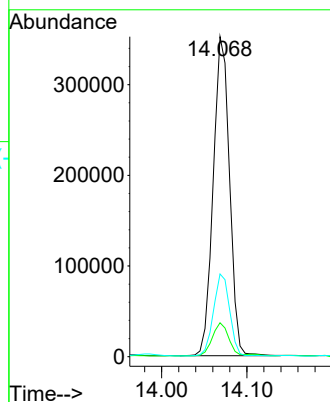
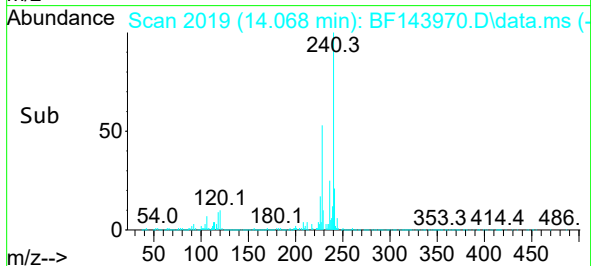
236 25.9 21.1 31.7

Manual Integrations

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Reviewed By :Rahul Chavli 10/16/2025

Supervised By :Jagrut Upadhyay 10/16/2025



#78

Pyrene

Concen: 27.63 ng

RT: 12.869 min Scan# 1815

Delta R.T. 0.006 min

Lab File: BF143970.D

Acq: 15 Oct 2025 23:47

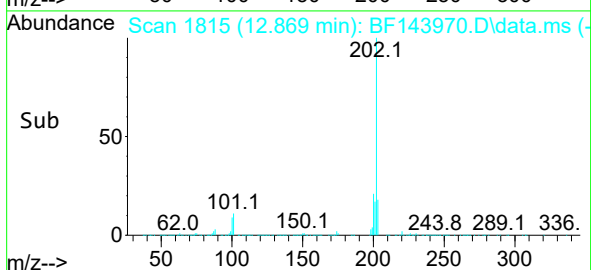
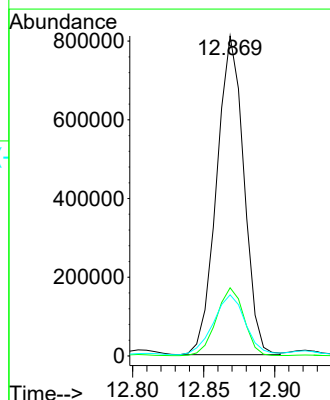
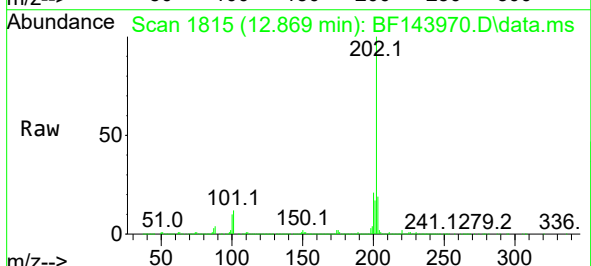
Tgt Ion:202 Resp: 1078115

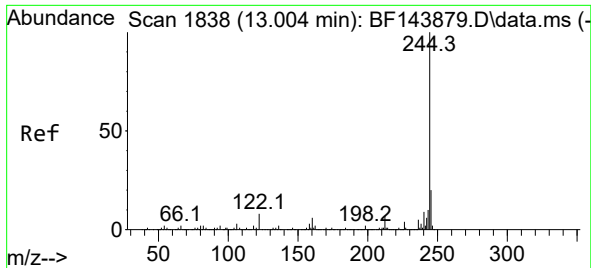
Ion Ratio Lower Upper

202 100

200 21.3 17.0 25.6

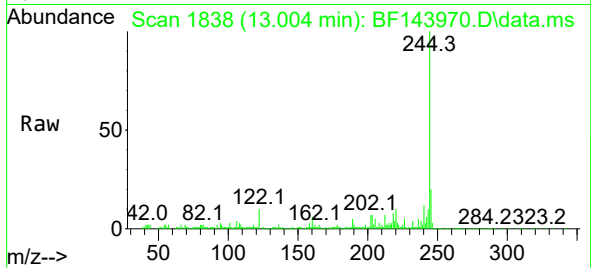
203 19.1 13.8 20.6





#79
 Terphenyl-d14
 Concen: 7.29 ng
 RT: 13.004 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF143970.D
 Acq: 15 Oct 2025 23:47

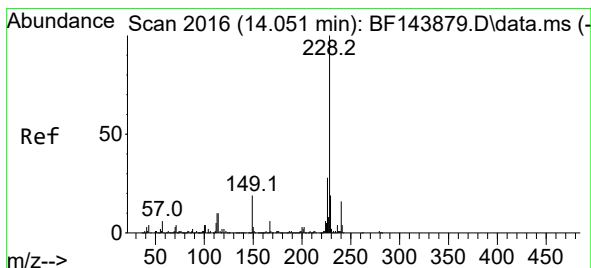
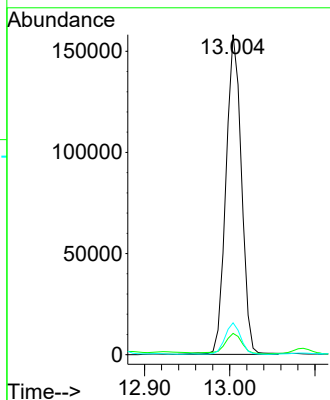
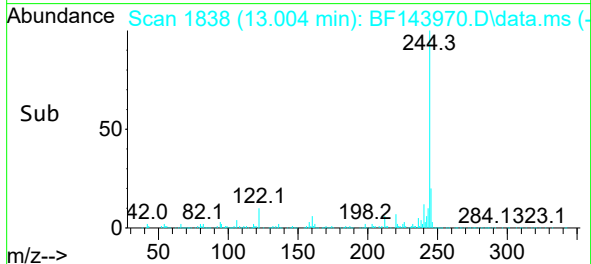
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-ROLLOFF-WC-1



Tgt Ion:244 Resp: 199498
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.4 8.0
 122 10.0 6.4 9.6

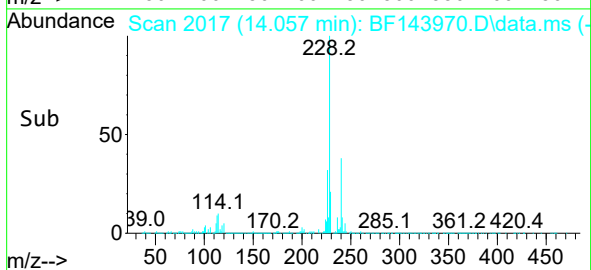
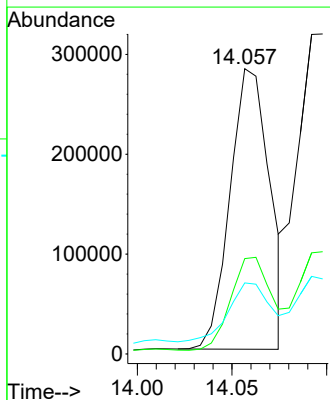
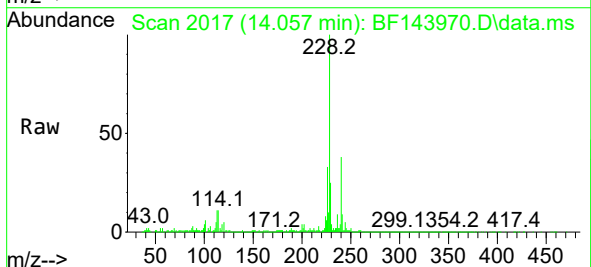
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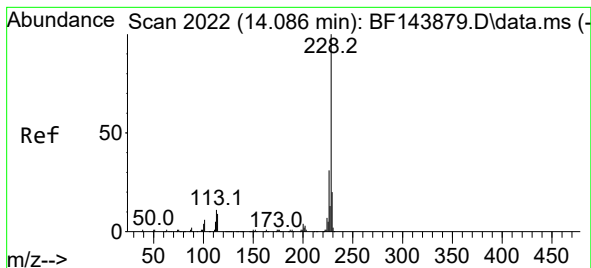
Reviewed By :Rahul Chavli 10/16/2025
 Supervised By :Jagrut Upadhyay 10/16/2025



#81
 Benzo(a)anthracene
 Concen: 13.36 ng
 RT: 14.057 min Scan# 2017
 Delta R.T. 0.000 min
 Lab File: BF143970.D
 Acq: 15 Oct 2025 23:47

Tgt Ion:228 Resp: 409222
 Ion Ratio Lower Upper
 228 100
 226 33.4 22.2 33.2#
 229 24.9 15.6 23.4#





#83

Chrysene

Concen: 15.90 ng

RT: 14.098 min Scan# 20

Delta R.T. 0.006 min

Lab File: BF143970.D

Acq: 15 Oct 2025 23:47

Instrument :

BNA_F

ClientSampleId :

SOIL-ROLLOFF-WC-1

Tgt Ion:228 Resp: 450688

Ion Ratio Lower Upper

228 100

226 32.0 24.4 36.6

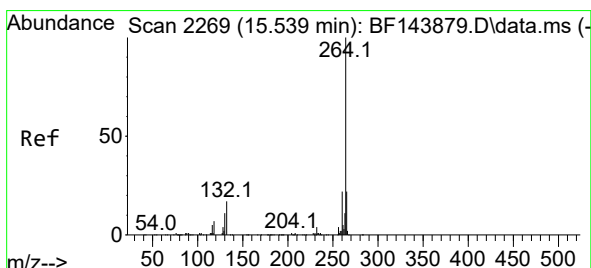
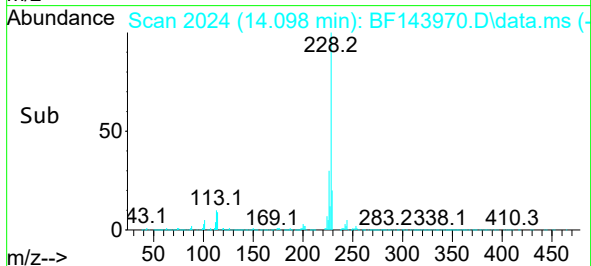
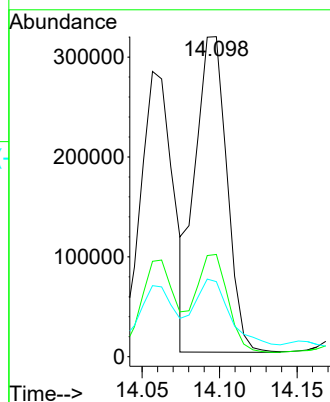
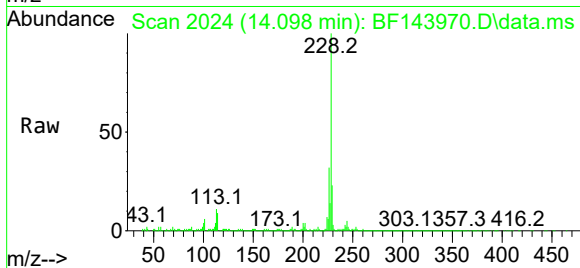
229 23.4 15.9 23.9

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Supervised By :Jagrut Upadhyay 10/16/2025



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.557 min Scan# 2272

Delta R.T. 0.012 min

Lab File: BF143970.D

Acq: 15 Oct 2025 23:47

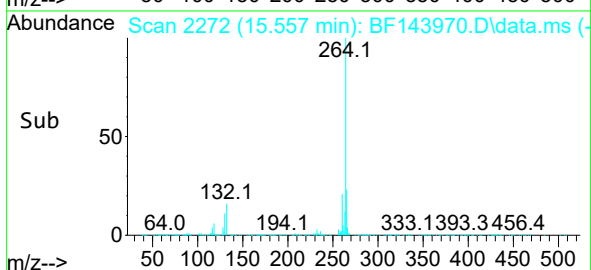
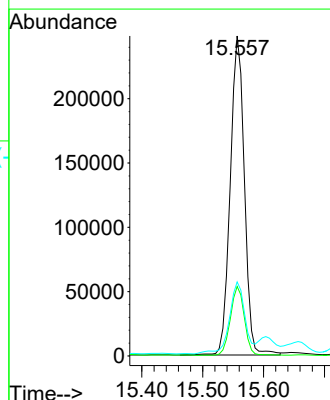
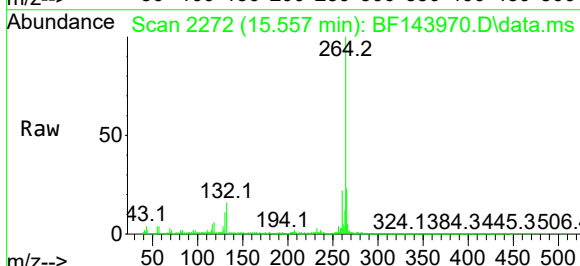
Tgt Ion:264 Resp: 402069

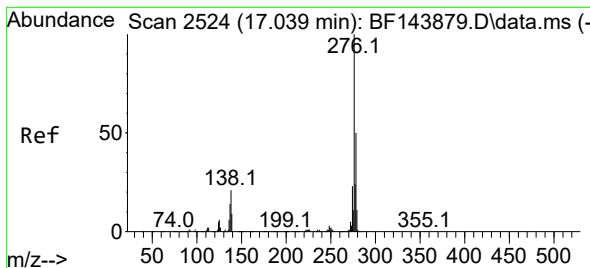
Ion Ratio Lower Upper

264 100

260 21.7 17.8 26.8

265 23.1 17.5 26.3





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.60 ng

RT: 17.057 min Scan# 2198

Delta R.T. 0.000 min

Lab File: BF143970.D

Acq: 15 Oct 2025 23:47

Instrument :

BNA_F

ClientSampleId :

SOIL-ROLLOFF-WC-1

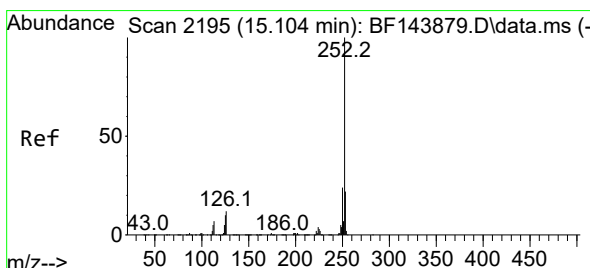
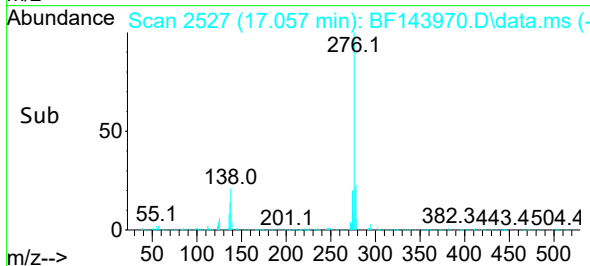
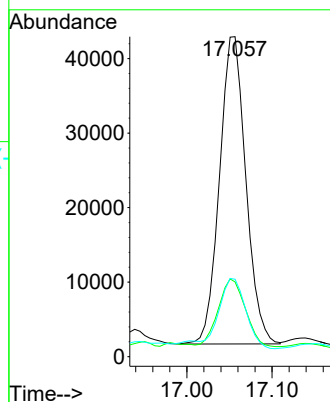
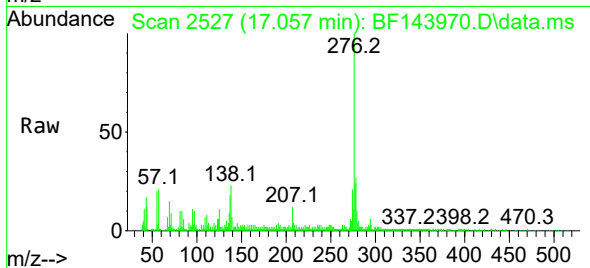
Tgt Ion:276 Resp: 88600
 Ion Ratio Lower Upper
 276 100
 138 22.7 18.2 27.2
 277 23.1 19.8 29.6

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Supervised By :Jagrut Upadhyay 10/16/2025



#88

Benzo(b)fluoranthene

Concen: 10.98 ng m

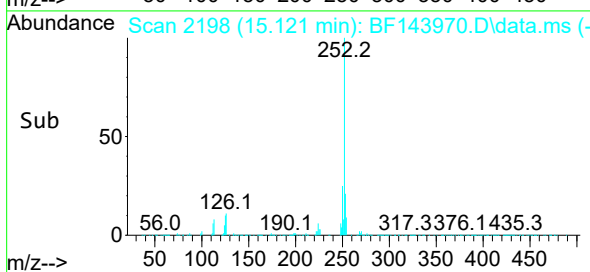
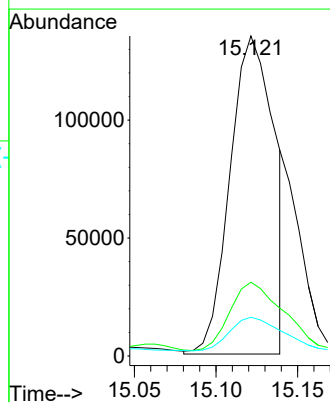
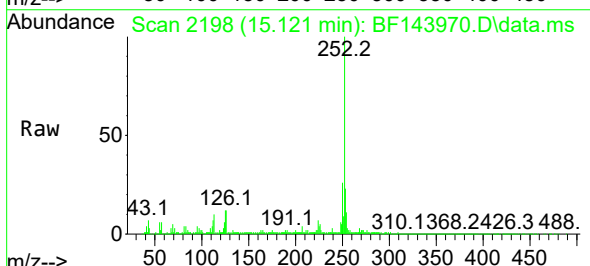
RT: 15.121 min Scan# 2198

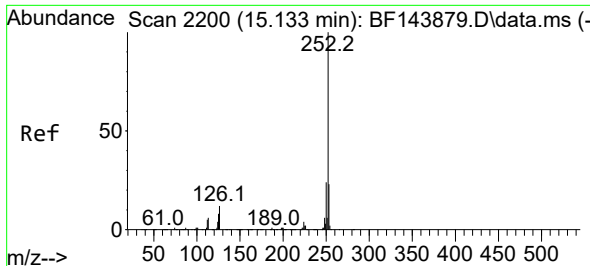
Delta R.T. 0.006 min

Lab File: BF143970.D

Acq: 15 Oct 2025 23:47

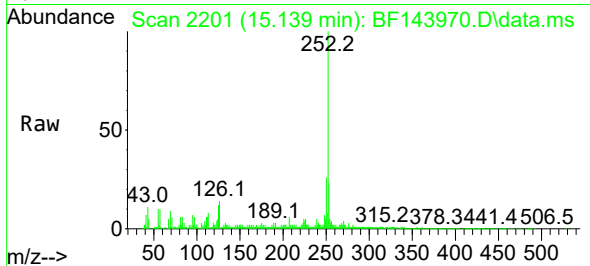
Tgt Ion:252 Resp: 253588
 Ion Ratio Lower Upper
 252 100
 253 23.0 17.4 26.2
 125 12.1 7.8 11.6#





#89
Benzo(k)fluoranthene
Concen: 3.01 ng m
RT: 15.139 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF143970.D
Acq: 15 Oct 2025 23:47

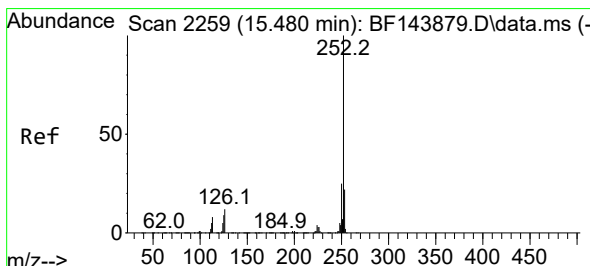
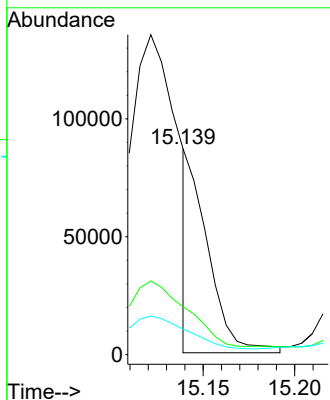
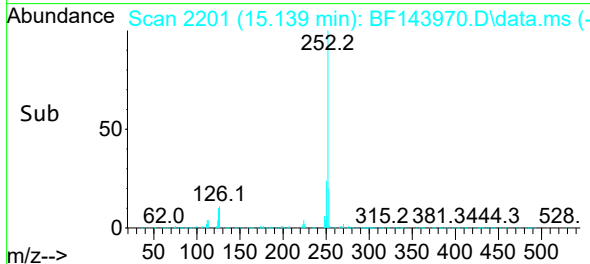
Instrument :
BNA_F
ClientSampleId :
SOIL-ROLLOFF-WC-1



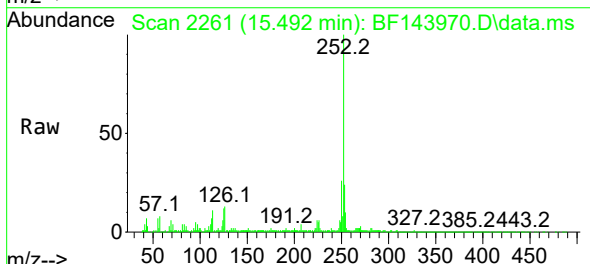
Tgt Ion:252 Resp: 64375
Ion Ratio Lower Upper
252 100
253 23.2 17.8 26.8
125 12.4 7.4 11.2

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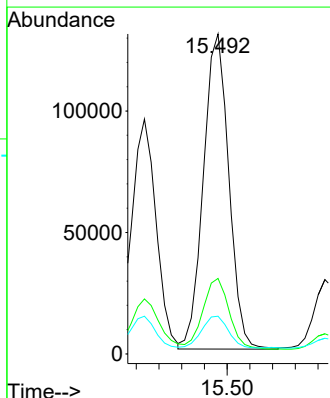
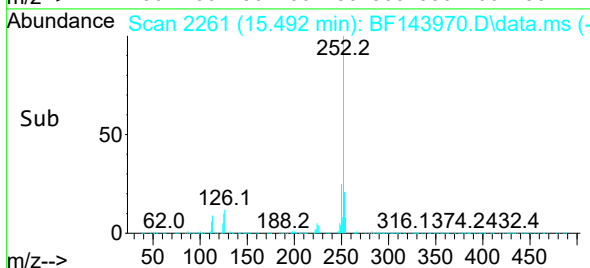
Reviewed By :Rahul Chavli 10/16/2025
Supervised By :Jagrut Upadhyay 10/16/2025

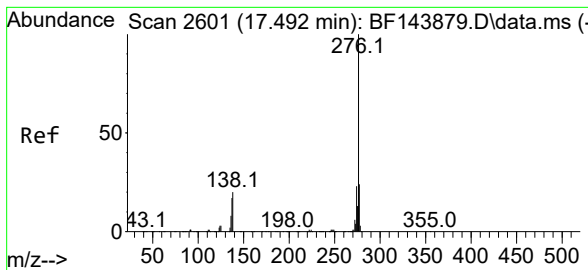


#90
Benzo(a)pyrene
Concen: 10.07 ng
RT: 15.492 min Scan# 2261
Delta R.T. 0.006 min
Lab File: BF143970.D
Acq: 15 Oct 2025 23:47



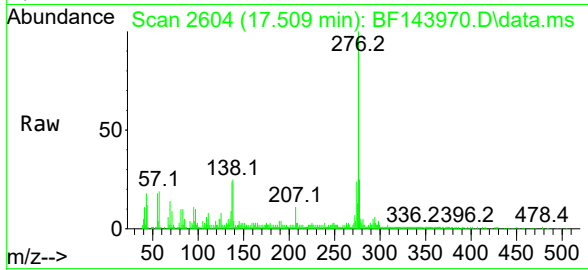
Tgt Ion:252 Resp: 201732
Ion Ratio Lower Upper
252 100
253 23.6 17.3 25.9
125 11.8 7.0 10.4





#92
 Benzo(g,h,i)perylene
 Concen: 5.05 ng
 RT: 17.509 min Scan# 20
 Delta R.T. -0.006 min
 Lab File: BF143970.D
 Acq: 15 Oct 2025 23:47

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-ROLLOFF-WC-1



Tgt Ion:276 Resp: 10012
 Ion Ratio Lower Upper
 276 100
 277 24.9 19.0 28.6
 138 25.1 16.1 24.1

Manual Integrations
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 Supervised By :Jagrut Upadhyay 10/16/2025

