

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100225\
 Data File : BF143869.D
 Acq On : 02 Oct 2025 22:03
 Operator : RC/JU
 Sample : Q3256-05DL 10X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILE-2-WCDL

Manual Integrations
 APPROVED

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

Quant Time: Oct 03 01:30:13 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 05:00:00 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	144420	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	534495	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	261202	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	379050	20.000	ng	0.00
76) Chrysene-d12	14.057	240	430912	20.000	ng	0.00
86) Perylene-d12	15.539	264	616717	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	75017	8.439	ng	-0.01
7) Phenol-d6	6.498	99	89031	8.668	ng	-0.01
23) Nitrobenzene-d5	7.439	82	49410	5.659	ng	-0.01
42) 2,4,6-Tribromophenol	10.710	330	19326	4.997	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	110360	6.593	ng	0.00
79) Terphenyl-d14	12.998	244	125730	5.934	ng	0.00
Target Compounds						
31) Naphthalene	8.187	128	120079	4.693	ng	99
37) 2-Methylnaphthalene	8.881	142	140141	8.589	ng	100
38) 1-Methylnaphthalene	8.981	142	150542	9.640	ng	98
49) Acenaphthylene	9.781	152	81745	3.901	ng	# 93
52) Acenaphthene	9.957	154	53950	3.913	ng	93
55) Dibenzofuran	10.128	168	45360	2.326	ng	# 88
58) Fluorene	10.469	166	146021	10.074	ng	97
71) Phenanthrene	11.439	178	1100331	56.542	ng	99
72) Anthracene	11.486	178	179941	9.218	ng	99
73) Carbazole	11.639	167	54338	3.184	ng	98
75) Fluoranthene	12.627	202	840169	42.925	ng	98
78) Pyrene	12.857	202	1048180	49.476	ng	99
81) Benzo(a)anthracene	14.045	228	582278	25.153	ng	93
83) Chrysene	14.080	228	568346	27.133	ng	96
87) Indeno(1,2,3-cd)pyrene	17.021	276	285135	6.094	ng	97
88) Benzo(b)fluoranthene	15.104	252	605757m	19.288	ng	
89) Benzo(k)fluoranthene	15.115	252	298063m	9.446	ng	
90) Benzo(a)pyrene	15.474	252	555095	18.803	ng	98
91) Dibenzo(a,h)anthracene	17.033	278	87636	2.290	ng	# 88
92) Benzo(g,h,i)perylene	17.474	276	270597	7.335	ng	# 97

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

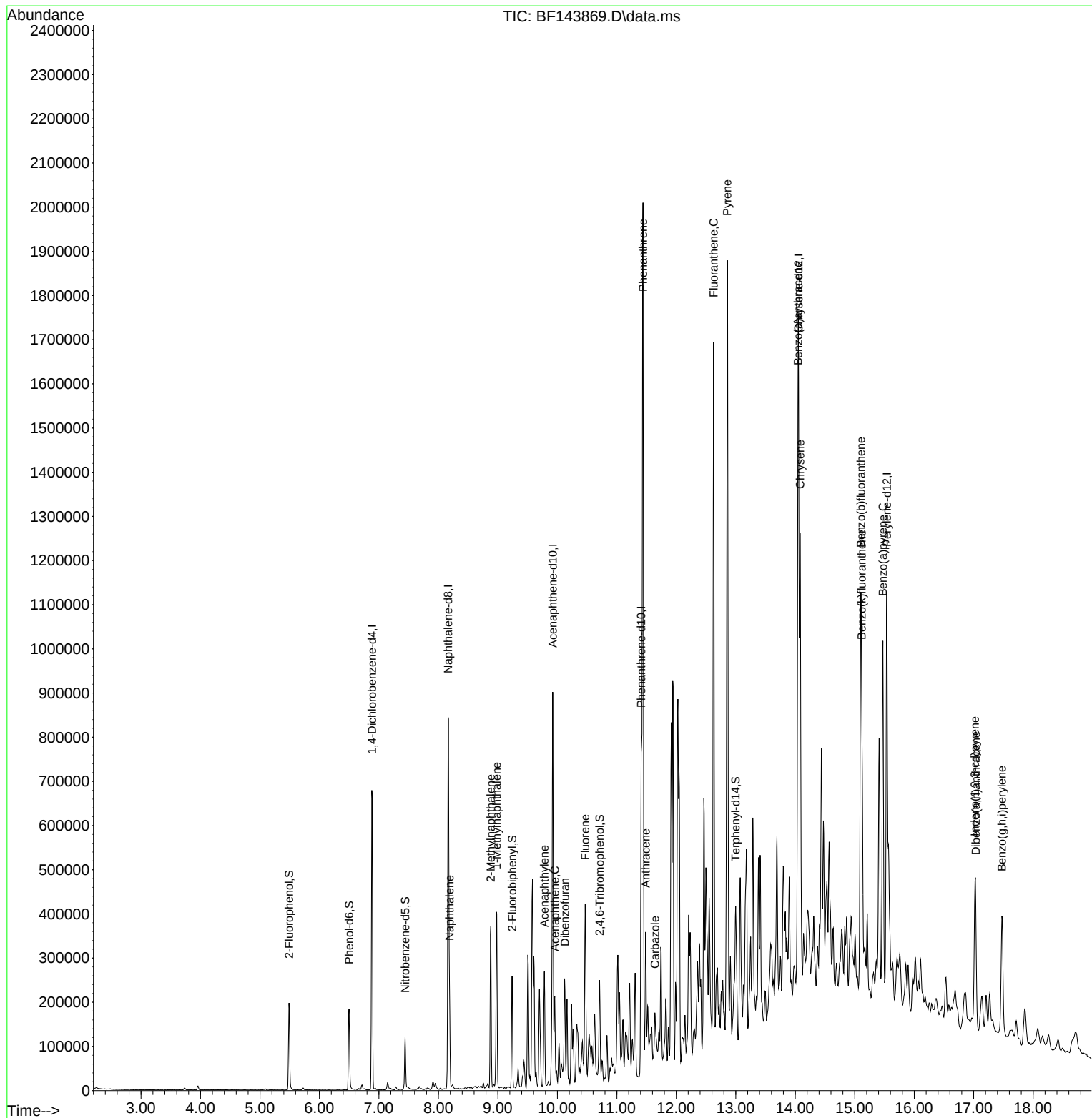
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100225\
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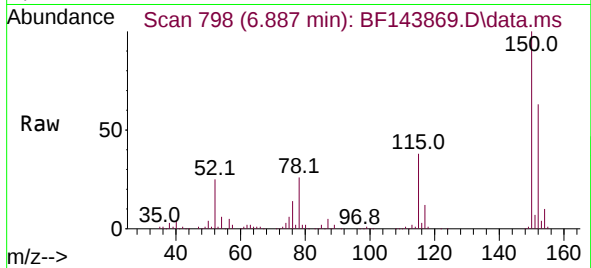
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 798
Delta R.T. -0.000 min
Lab File: BF143869.D
Acq: 02 Oct 2025 22:03

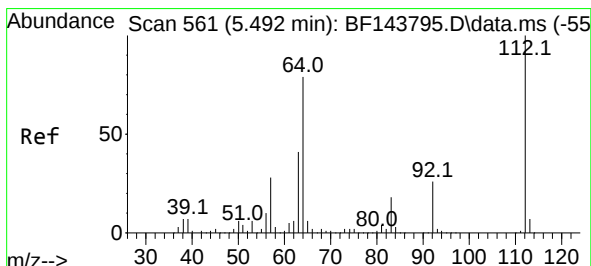
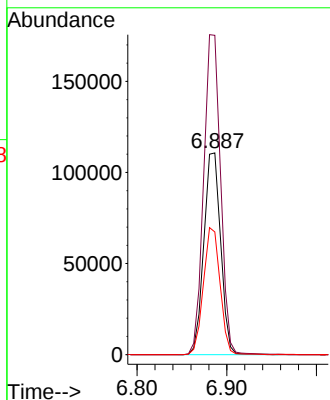
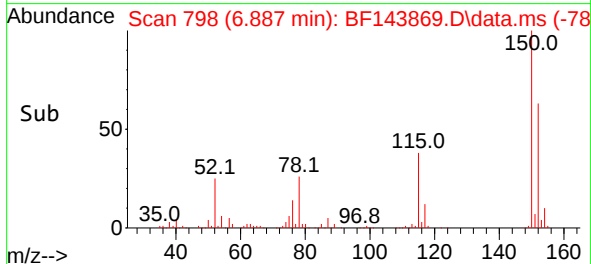
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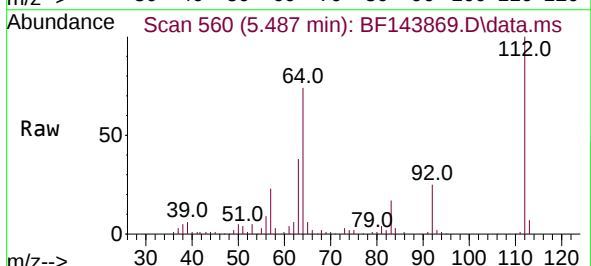
Tgt Ion:152 Resp: 144420
Ion Ratio Lower Upper
152 100
150 158.3 129.6 194.4
115 60.8 49.0 73.4

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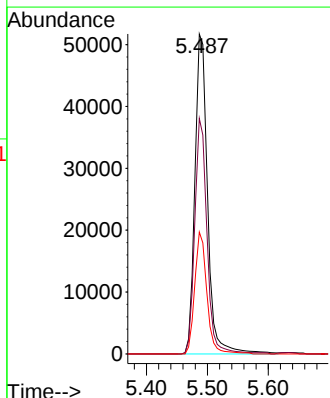
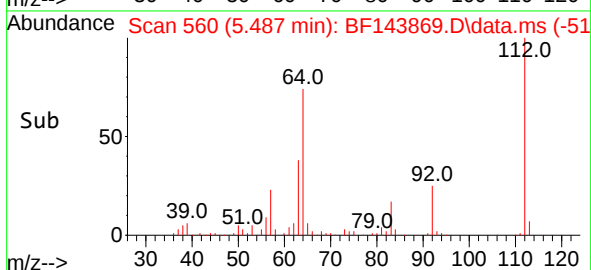
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



#5
2-Fluorophenol
Concen: 8.439 ng
RT: 5.487 min Scan# 560
Delta R.T. -0.011 min
Lab File: BF143869.D
Acq: 02 Oct 2025 22:03



Tgt Ion:112 Resp: 75017
Ion Ratio Lower Upper
112 100
64 73.6 63.0 94.4
63 38.1 32.6 49.0





#7

Phenol-d6

Concen: 8.668 ng

RT: 6.498 min Scan# 733

Delta R.T. -0.012 min

Lab File: BF143869.D

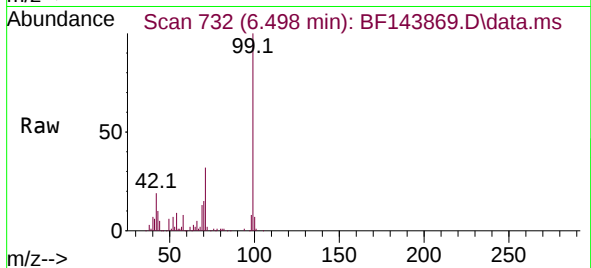
Acq: 02 Oct 2025 22:03

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE-2-WCDL

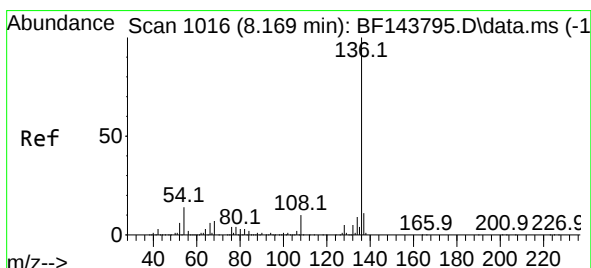
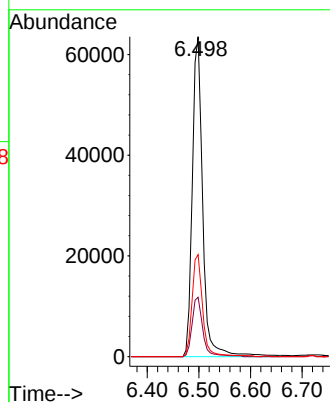
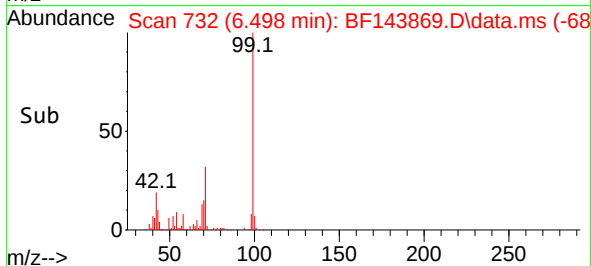


Tgt Ion: 99	Resp: 89031
Ion Ratio	Lower Upper
99 100	
42 18.5	18.6 28.0
71 31.9	27.0 40.4

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#21

Naphthalene-d8

Concen: 20.000 ng

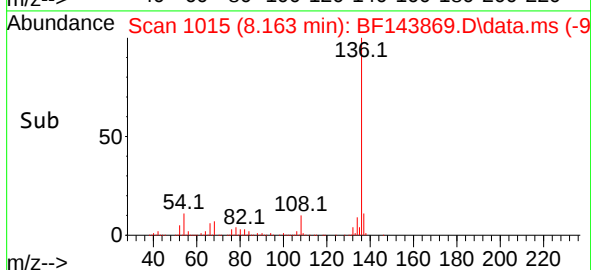
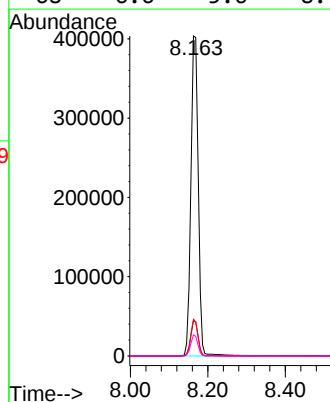
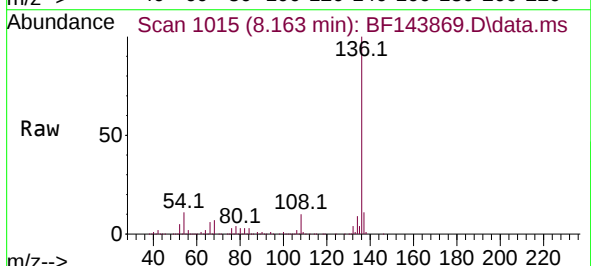
RT: 8.163 min Scan# 1015

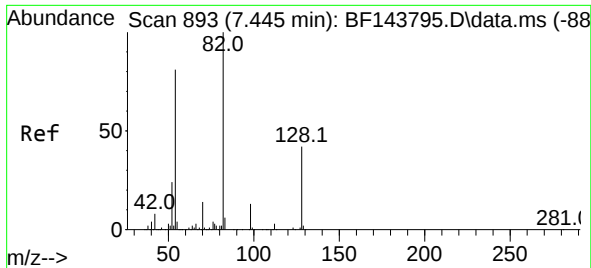
Delta R.T. -0.006 min

Lab File: BF143869.D

Acq: 02 Oct 2025 22:03

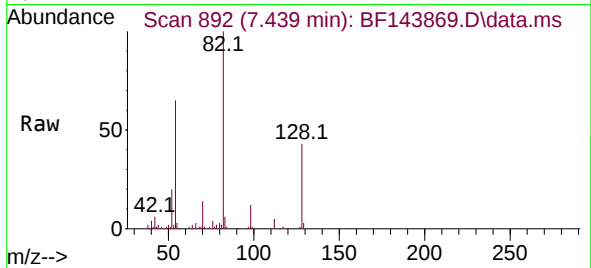
Tgt Ion:136	Resp: 534495
Ion Ratio	Lower Upper
136 100	
137 11.0	9.0 13.4
54 11.5	11.2 16.8
68 6.6	5.6 8.4





#23
Nitrobenzene-d5
Concen: 5.659 ng
RT: 7.439 min Scan# 89
Delta R.T. -0.011 min
Lab File: BF143869.D
Acq: 02 Oct 2025 22:03

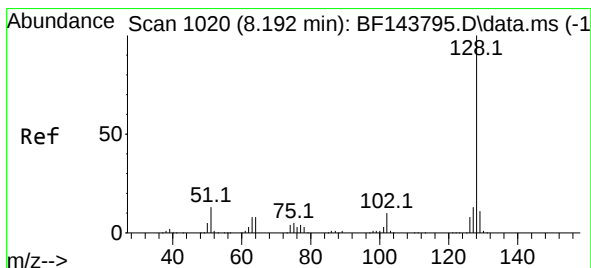
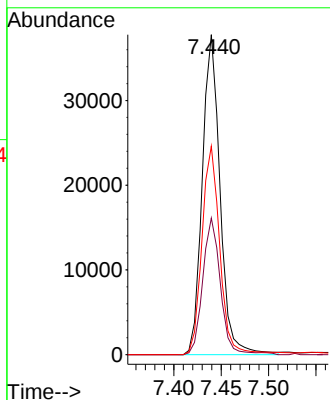
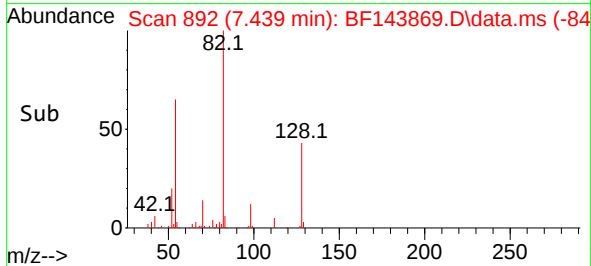
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-2-WCDL



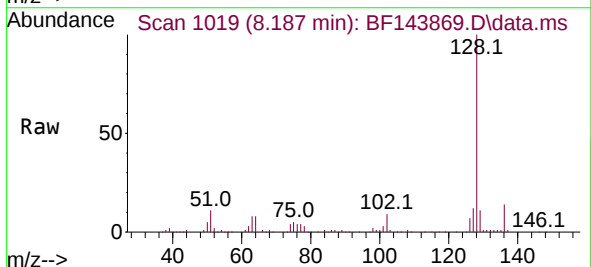
Tgt Ion: 82 Resp: 49410
Ion Ratio Lower Upper
82 100
128 42.7 33.3 49.9
54 65.1 64.2 96.4

Manual Integrations
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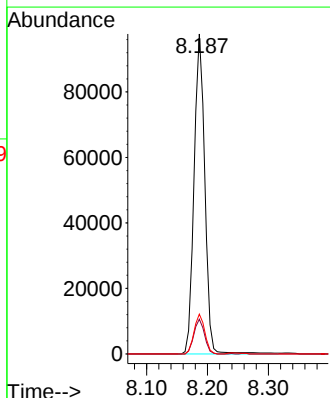
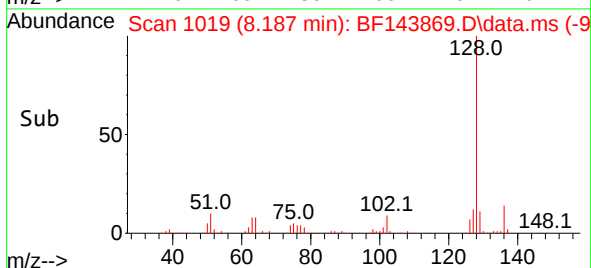
Reviewed By :Rahul Chavli 10/03/2025
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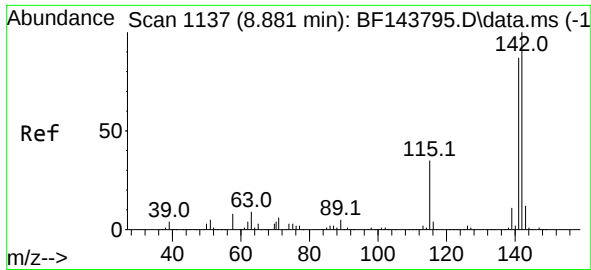


#31
Naphthalene
Concen: 4.693 ng
RT: 8.187 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF143869.D
Acq: 02 Oct 2025 22:03



Tgt Ion:128 Resp: 120079
Ion Ratio Lower Upper
128 100
129 10.8 8.8 13.2
127 12.4 10.2 15.4





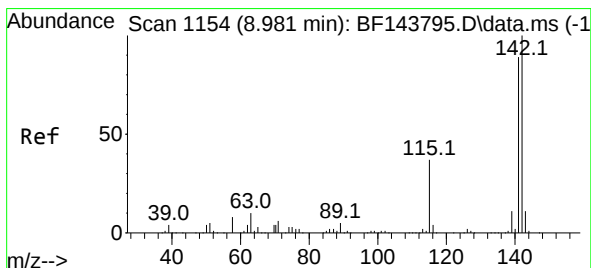
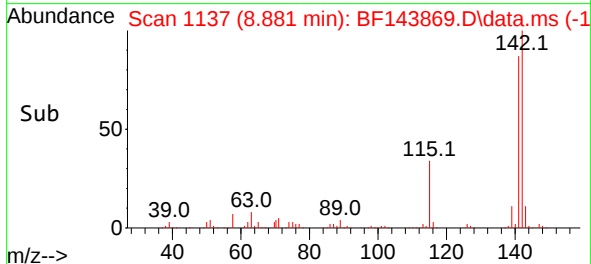
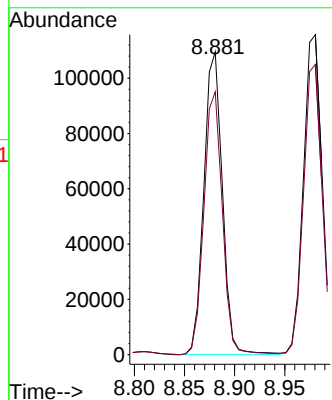
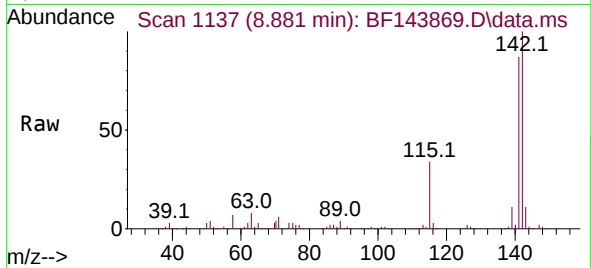
#37
2-Methylnaphthalene
Concen: 8.589 ng
RT: 8.881 min Scan# 1137
Delta R.T. 0.000 min
Lab File: BF143869.D
Acq: 02 Oct 2025 22:03

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ClientSampleId :
SOIL-PILE-2-WCDL

Tgt Ion:142 Resp: 14014
Ion Ratio Lower Upper
142 100
141 86.8 69.4 104.0

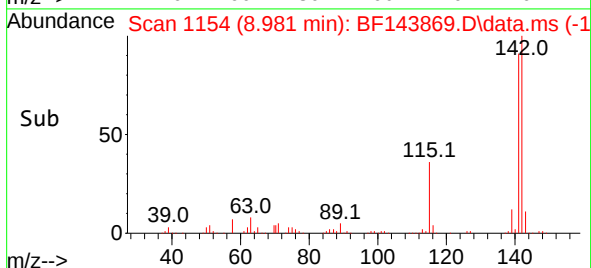
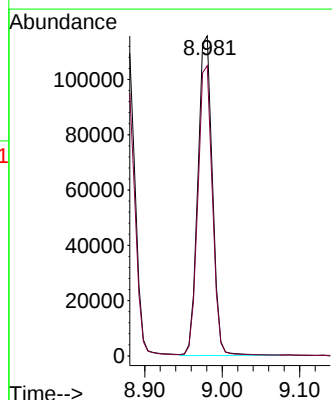
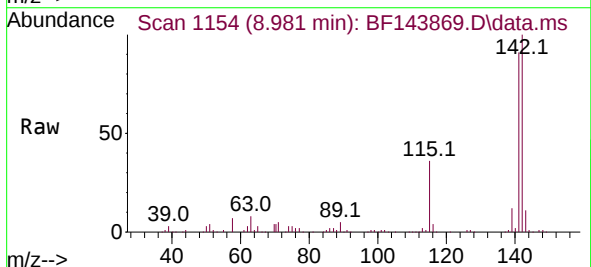
Manual Integrations
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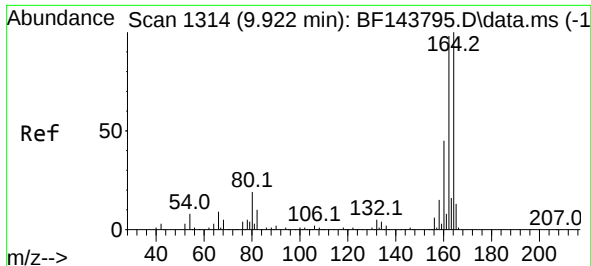
Reviewed By :Rahul Chavli 10/03/2025
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#38
1-Methylnaphthalene
Concen: 9.640 ng
RT: 8.981 min Scan# 1154
Delta R.T. 0.000 min
Lab File: BF143869.D
Acq: 02 Oct 2025 22:03

Tgt Ion:142 Resp: 150542
Ion Ratio Lower Upper
142 100
141 90.7 71.1 106.7





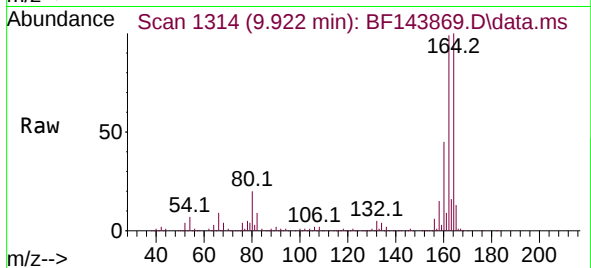
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1314
Delta R.T. -0.006 min
Lab File: BF143869.D
Acq: 02 Oct 2025 22:03

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE-2-WCDL



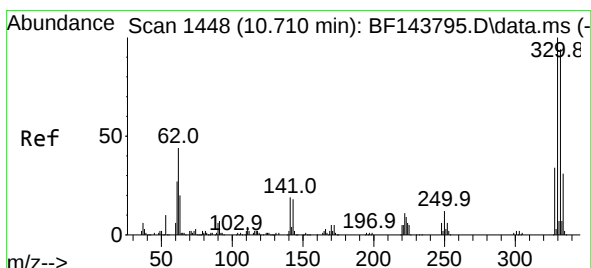
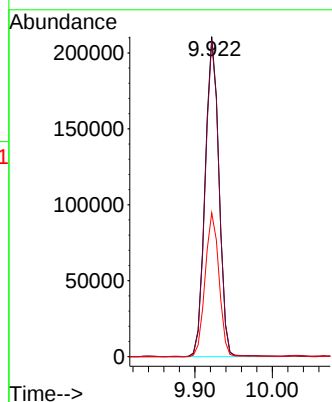
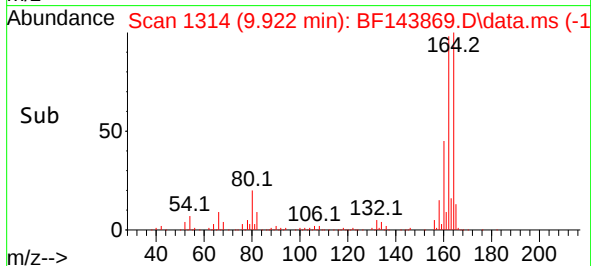
Tgt Ion:164 Resp: 261202
Ion Ratio Lower Upper
164 100
162 98.7 78.8 118.2
160 44.9 35.8 53.6

Manual Integrations

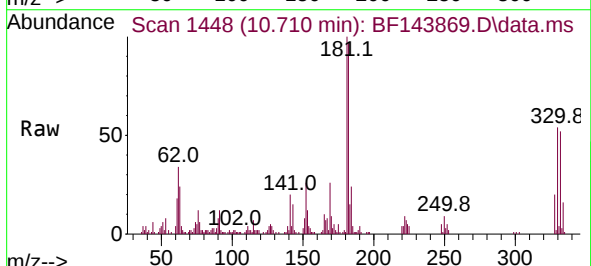
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Reviewed By :Rahul Chavli 10/03/2025

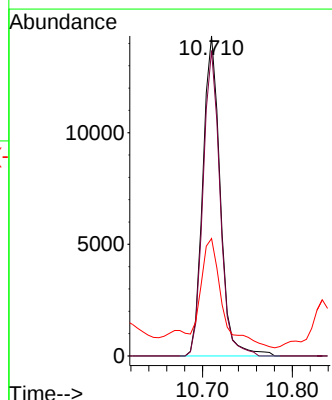
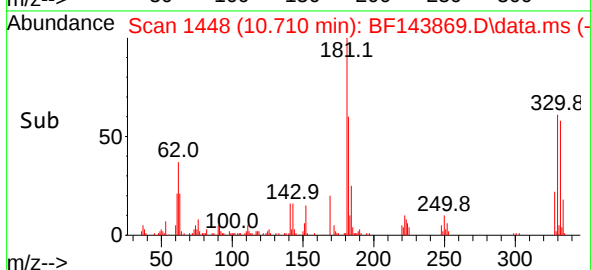
Supervised By :Jagrut Upadhyay 10/03/2025

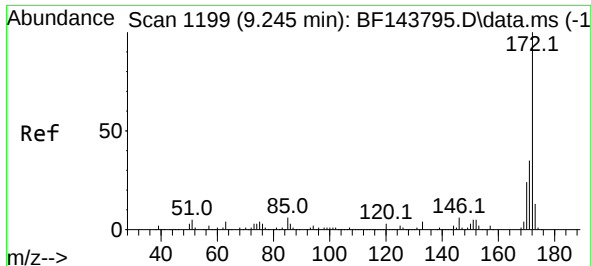


#42
2,4,6-Tribromophenol
Concen: 4.997 ng
RT: 10.710 min Scan# 1448
Delta R.T. -0.006 min
Lab File: BF143869.D
Acq: 02 Oct 2025 22:03



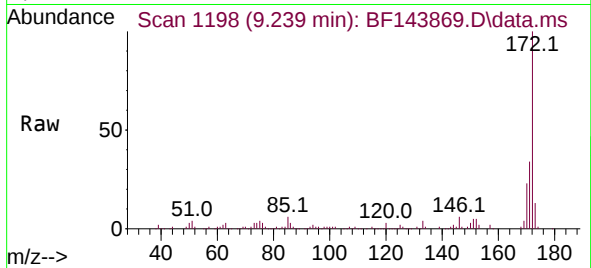
Tgt Ion:330 Resp: 19326
Ion Ratio Lower Upper
330 100
332 93.3 74.7 112.1
141 41.6 14.3 21.5#





#45
2-Fluorobiphenyl
Concen: 6.593 ng
RT: 9.239 min Scan# 1198
Delta R.T. -0.006 min
Lab File: BF143869.D
Acq: 02 Oct 2025 22:03

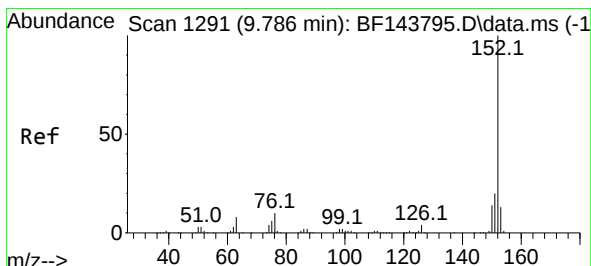
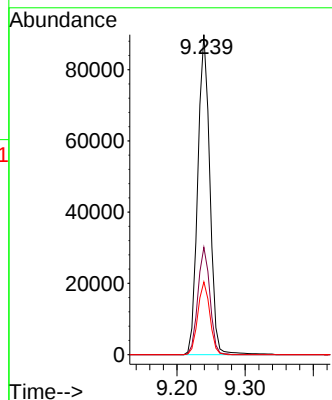
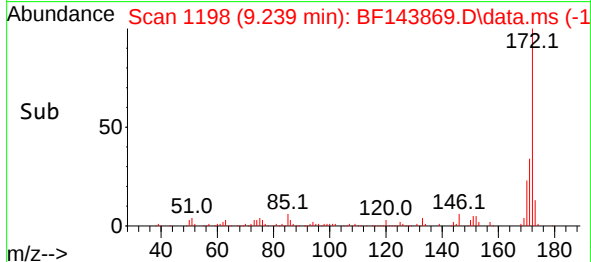
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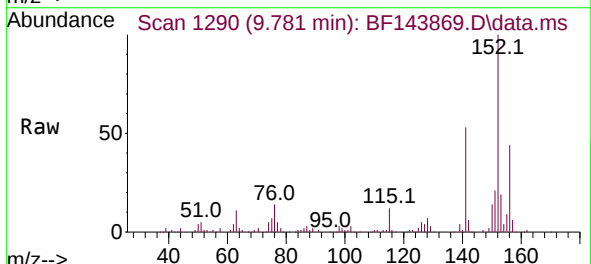
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Ion Ratio Lower Upper
172 100
171 33.5 27.9 41.9
170 22.7 19.1 28.7

Manual Integrations
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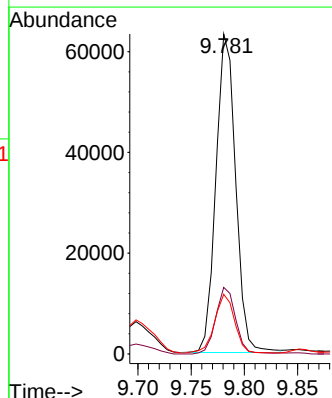
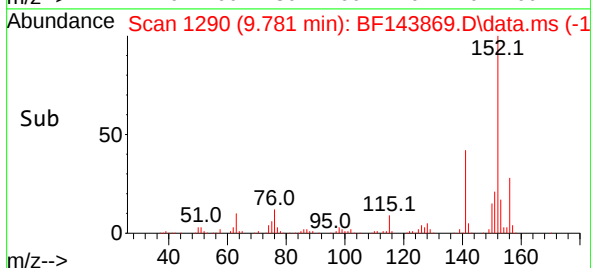
Reviewed By :Rahul Chavli 10/03/2025
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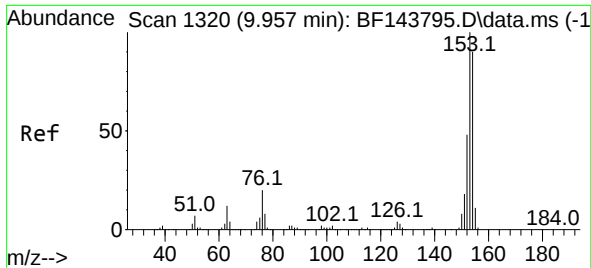


#49
Acenaphthylene
Concen: 3.901 ng
RT: 9.781 min Scan# 1290
Delta R.T. -0.006 min
Lab File: BF143869.D
Acq: 02 Oct 2025 22:03



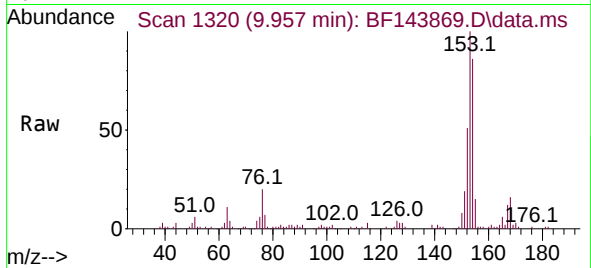
Tgt Ion:152 Resp: 81745
Ion Ratio Lower Upper
152 100
151 20.8 15.7 23.5
153 18.6 10.6 15.8#





#52
Acenaphthene
Concen: 3.913 ng
RT: 9.957 min Scan# 1320
Delta R.T. -0.006 min
Lab File: BF143869.D
Acq: 02 Oct 2025 22:03

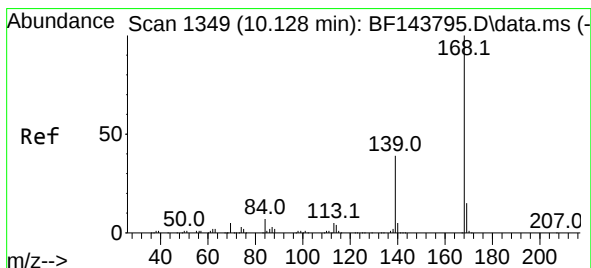
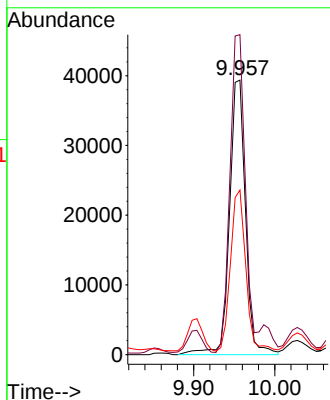
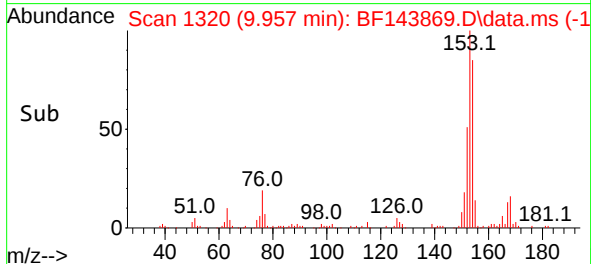
Instrument :
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SOIL-PILE-2-WCDL



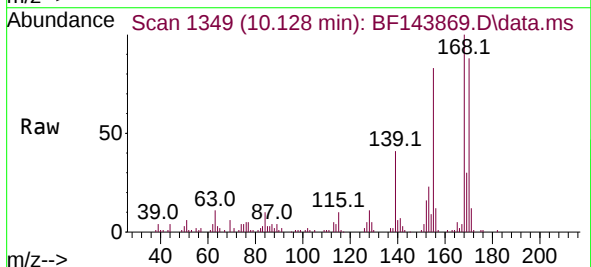
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Ion Ratio Lower Upper
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153 116.6 88.7 133.1
152 59.9 42.7 64.1

Manual Integrations
APPROVED

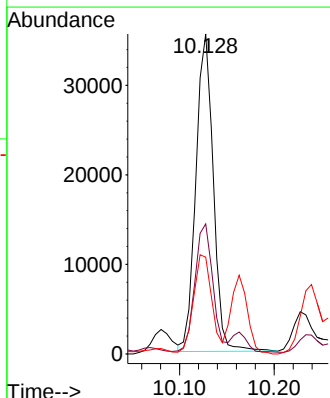
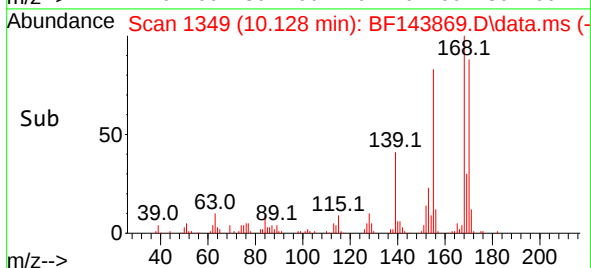
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

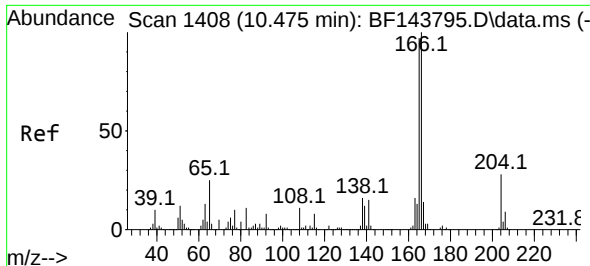


#55
Dibenzofuran
Concen: 2.326 ng
RT: 10.128 min Scan# 1349
Delta R.T. -0.006 min
Lab File: BF143869.D
Acq: 02 Oct 2025 22:03



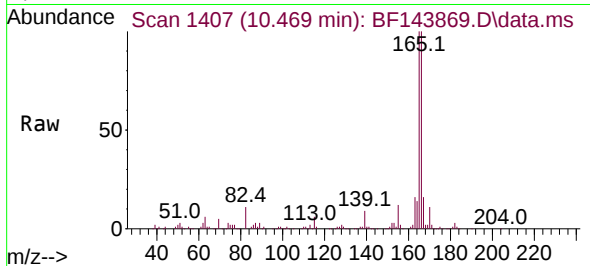
Tgt Ion:168 Resp: 45360
Ion Ratio Lower Upper
168 100
139 40.6 31.0 46.6
169 30.2 11.9 17.9#





#58
Fluorene
Concen: 10.074 ng
RT: 10.469 min Scan# 1408
Delta R.T. -0.006 min
Lab File: BF143869.D
Acq: 02 Oct 2025 22:03

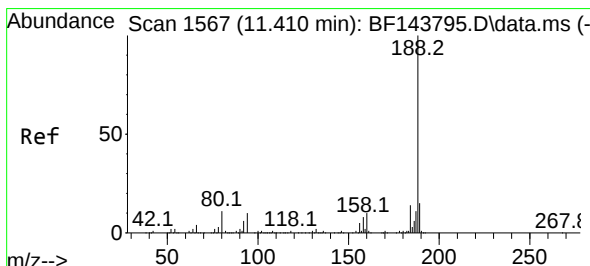
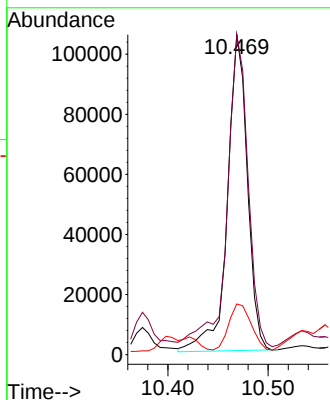
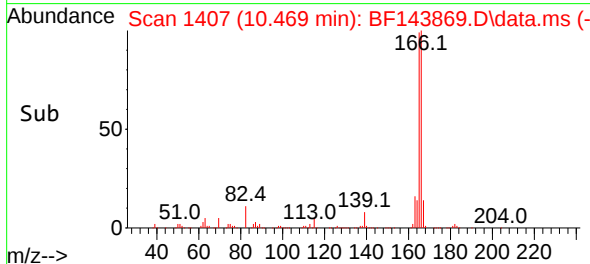
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-2-WCDL



Tgt Ion:166 Resp: 146021
Ion Ratio Lower Upper
166 100
165 100.0 78.0 117.0
167 15.8 10.9 16.3

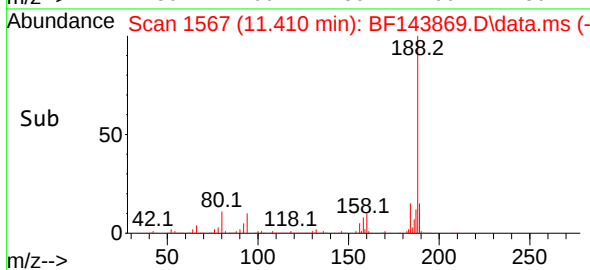
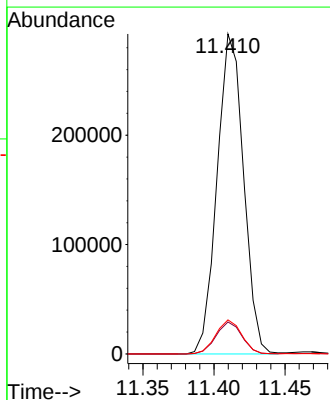
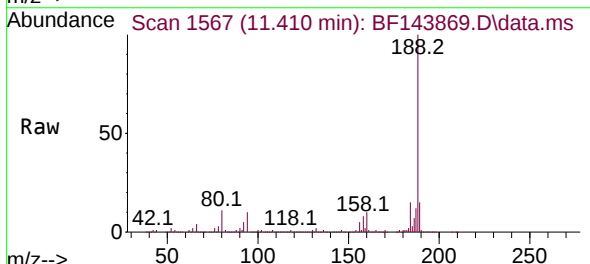
Manual Integrations
APPROVED

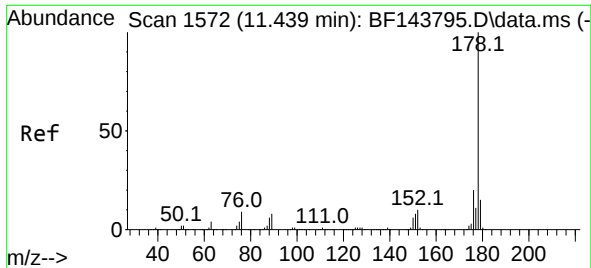
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF143869.D
Acq: 02 Oct 2025 22:03

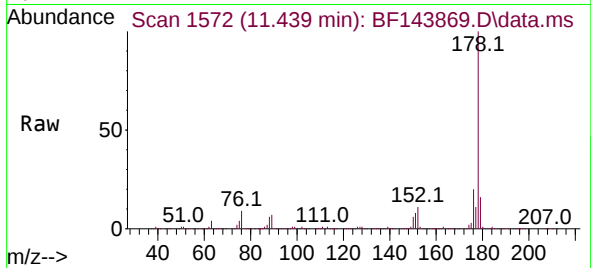
Tgt Ion:188 Resp: 379050
Ion Ratio Lower Upper
188 100
94 10.0 8.2 12.2
80 10.6 8.6 12.8





#71
Phenanthrene
Concen: 56.542 ng
RT: 11.439 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143869.D
Acq: 02 Oct 2025 22:03

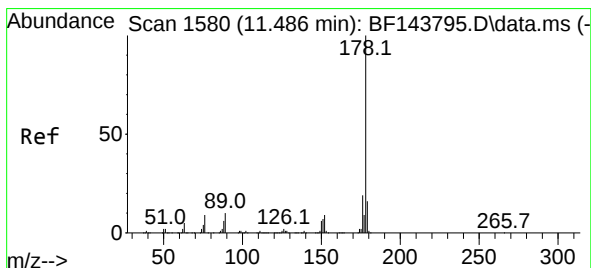
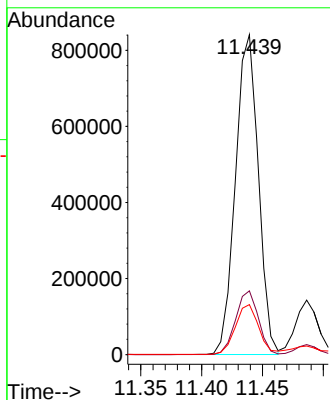
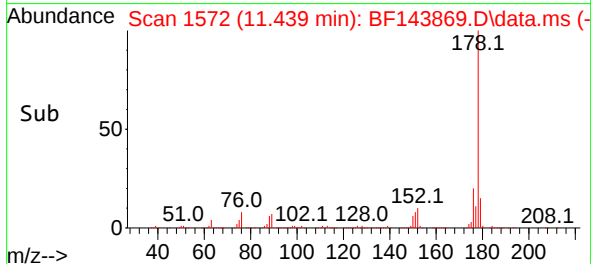
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-2-WCDL



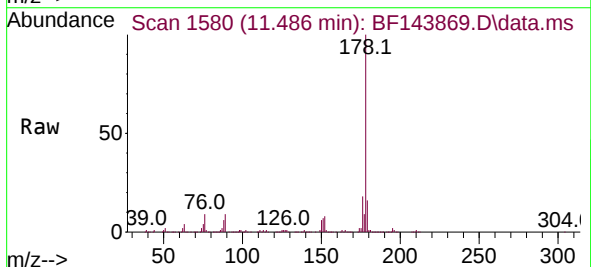
Tgt Ion:178 Resp: 110033
Ion Ratio Lower Upper
178 100
176 19.9 15.6 23.4
179 15.6 12.2 18.4

Manual Integrations
APPROVED

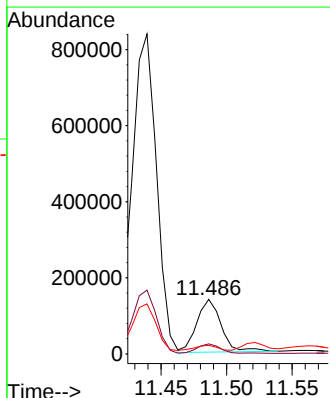
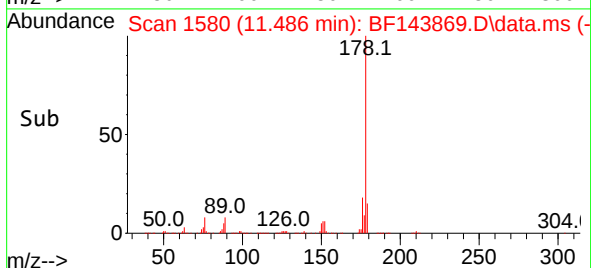
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

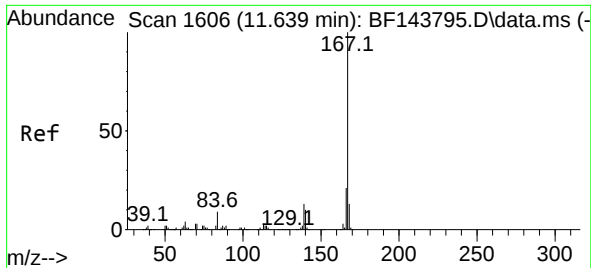


#72
Anthracene
Concen: 9.218 ng
RT: 11.486 min Scan# 1580
Delta R.T. -0.006 min
Lab File: BF143869.D
Acq: 02 Oct 2025 22:03



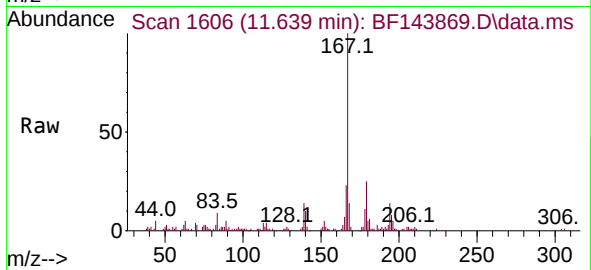
Tgt Ion:178 Resp: 179941
Ion Ratio Lower Upper
178 100
176 18.5 15.3 22.9
179 15.9 12.8 19.2





#73
 Carbazole
 Concen: 3.184 ng
 RT: 11.639 min Scan# 1606
 Delta R.T. -0.006 min
 Lab File: BF143869.D
 Acq: 02 Oct 2025 22:03

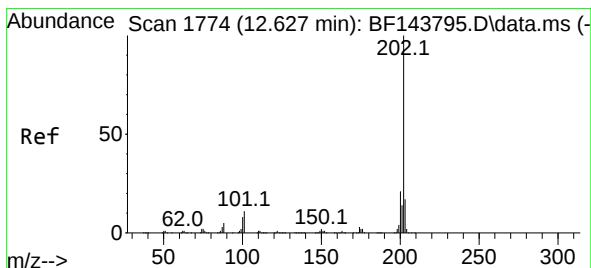
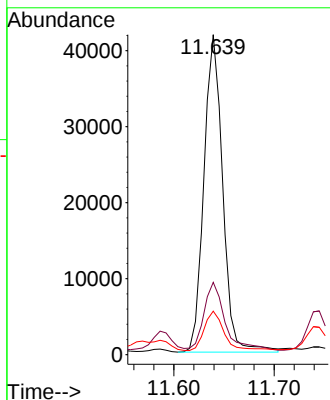
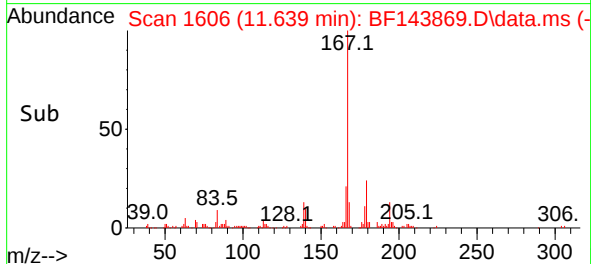
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILE-2-WCDL



Tgt Ion:167 Resp: 54338
 Ion Ratio Lower Upper
 167 100
 166 22.6 17.0 25.4
 139 13.6 10.6 15.8

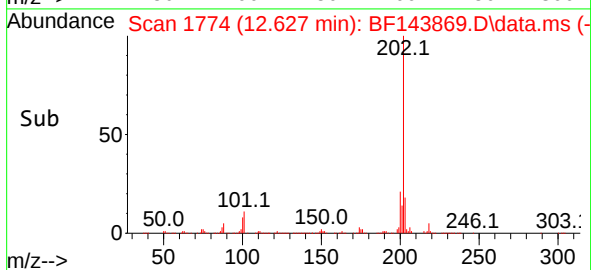
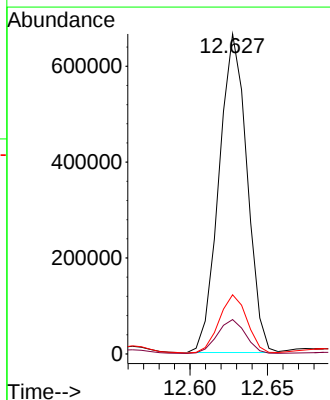
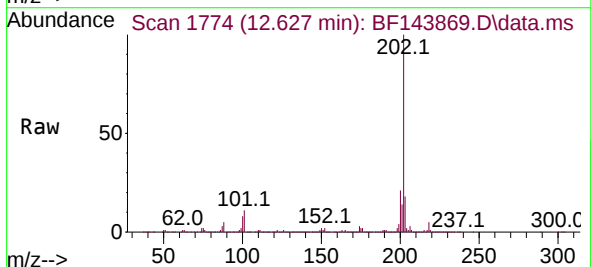
Manual Integrations
 APPROVED

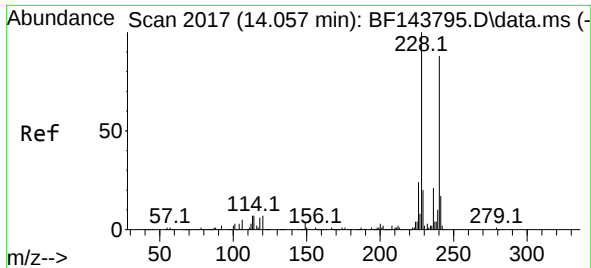
Reviewed By :Rahul Chavli 10/03/2025
 Supervised By :Jagrut Upadhyay 10/03/2025



#75
 Fluoranthene
 Concen: 42.925 ng
 RT: 12.627 min Scan# 1774
 Delta R.T. 0.000 min
 Lab File: BF143869.D
 Acq: 02 Oct 2025 22:03

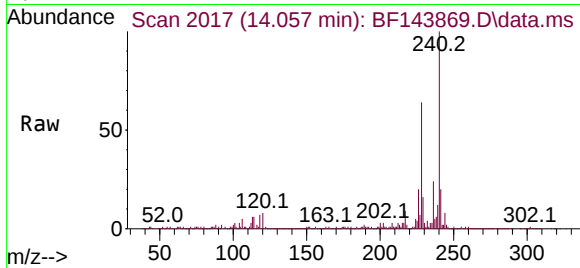
Tgt Ion:202 Resp: 840169
 Ion Ratio Lower Upper
 202 100
 101 10.7 0.0 31.1
 203 18.5 0.0 37.4





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF143869.D
Acq: 02 Oct 2025 22:03

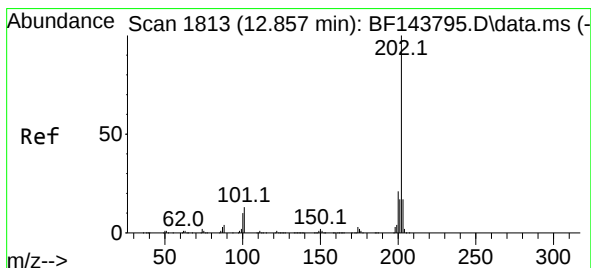
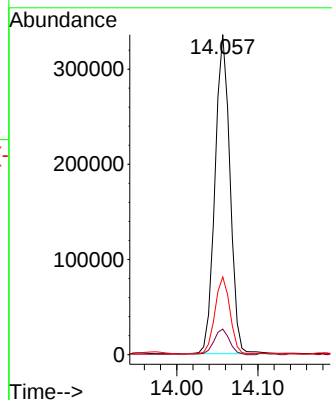
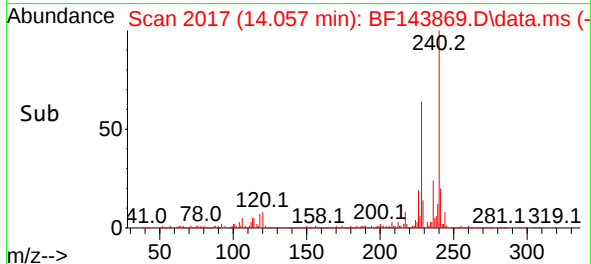
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-2-WCDL



Tgt Ion:240 Resp: 430912
Ion Ratio Lower Upper
240 100
120 8.0 6.2 9.4
236 24.3 19.4 29.2

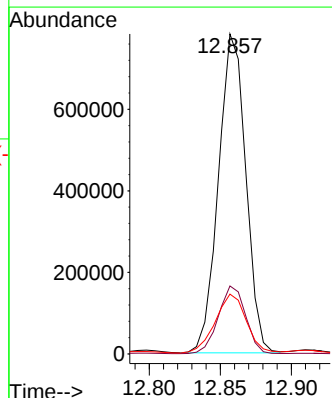
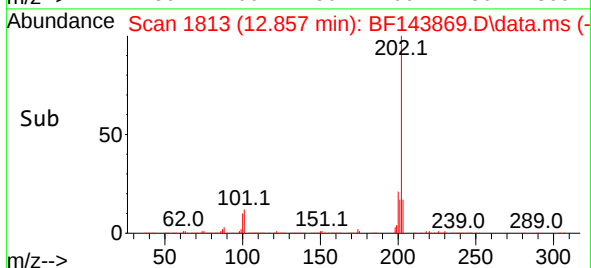
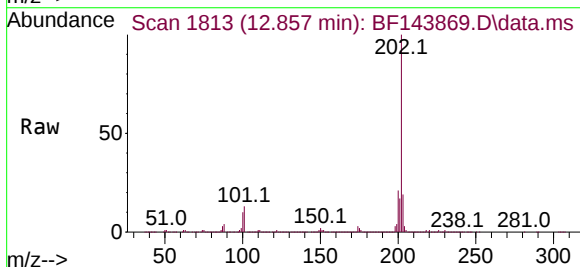
Manual Integrations
APPROVED

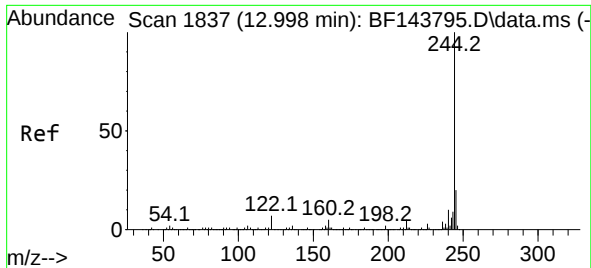
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



#78
Pyrene
Concen: 49.476 ng
RT: 12.857 min Scan# 1813
Delta R.T. 0.000 min
Lab File: BF143869.D
Acq: 02 Oct 2025 22:03

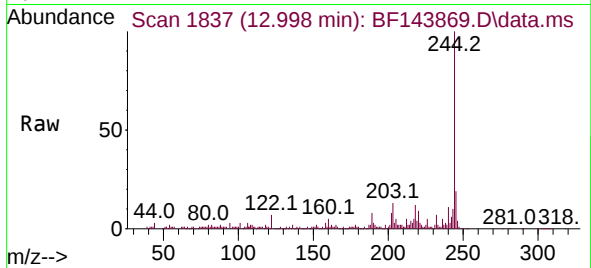
Tgt Ion:202 Resp: 1048180
Ion Ratio Lower Upper
202 100
200 21.2 17.0 25.4
203 18.7 13.9 20.9





#79
Terphenyl-d14
Concen: 5.934 ng
RT: 12.998 min Scan# 1837
Delta R.T. -0.006 min
Lab File: BF143869.D
Acq: 02 Oct 2025 22:03

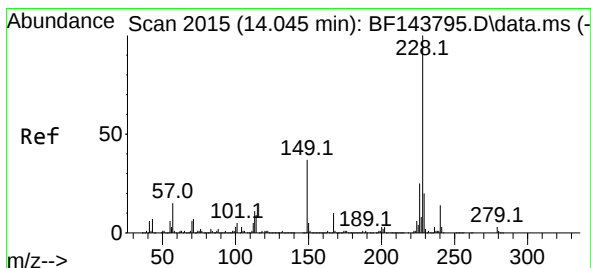
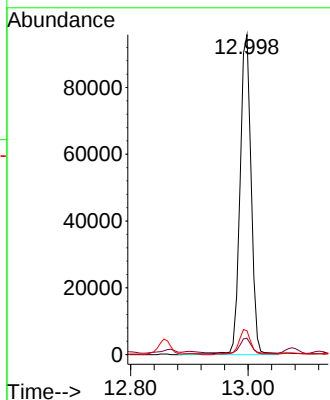
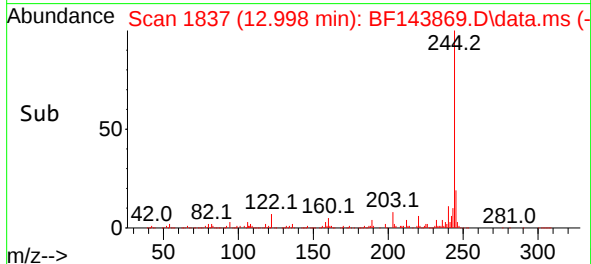
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-2-WCDL



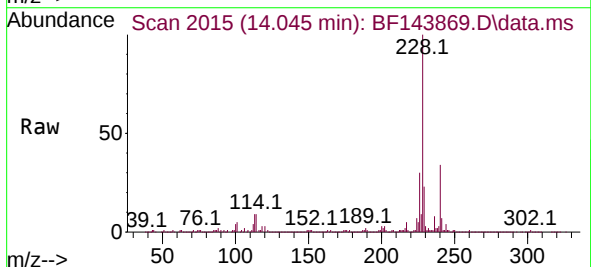
Tgt Ion:244 Resp: 125730
Ion Ratio Lower Upper
244 100
212 5.1 3.9 5.9
122 7.4 5.6 8.4

Manual Integrations
APPROVED

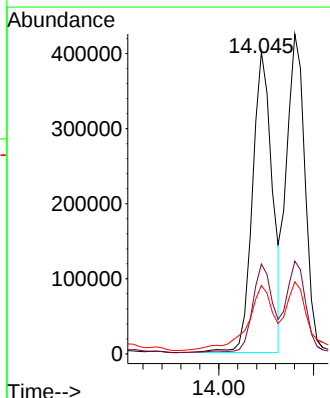
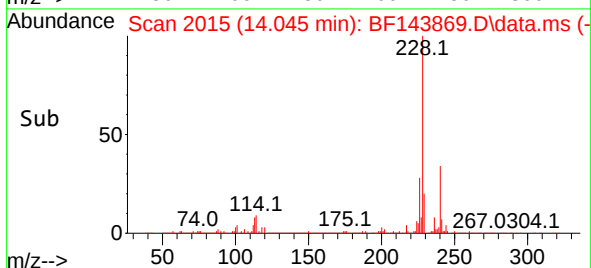
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

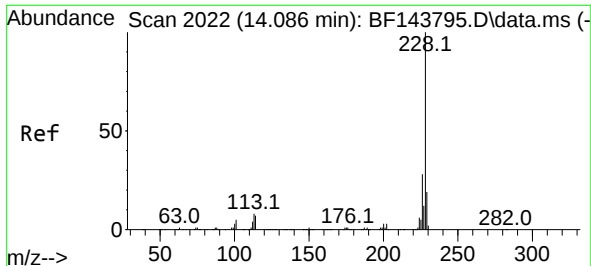


#81
Benzo(a)anthracene
Concen: 25.153 ng
RT: 14.045 min Scan# 2015
Delta R.T. -0.006 min
Lab File: BF143869.D
Acq: 02 Oct 2025 22:03



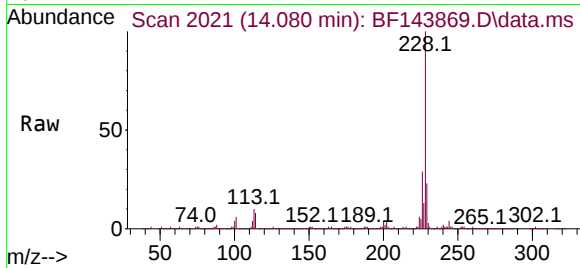
Tgt Ion:228 Resp: 582278
Ion Ratio Lower Upper
228 100
226 29.8 20.2 30.2
229 22.6 16.1 24.1





#83
Chrysene
Concen: 27.133 ng
RT: 14.080 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF143869.D
Acq: 02 Oct 2025 22:03

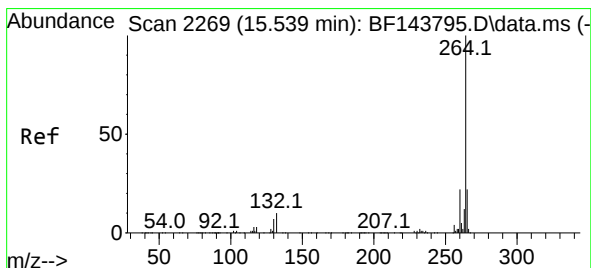
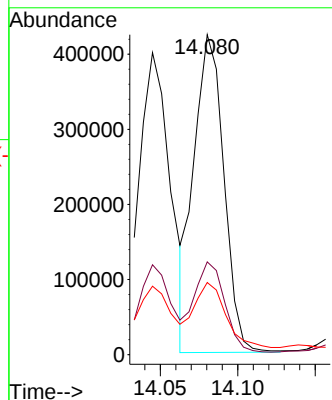
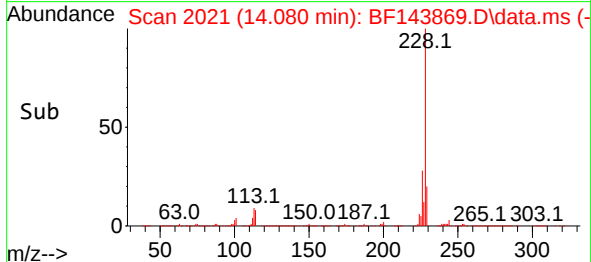
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-2-WCDL



Tgt Ion:228 Resp: 568346
Ion Ratio Lower Upper
228 100
226 29.0 22.6 33.8
229 22.5 15.6 23.4

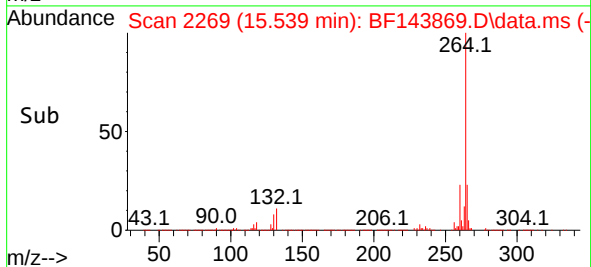
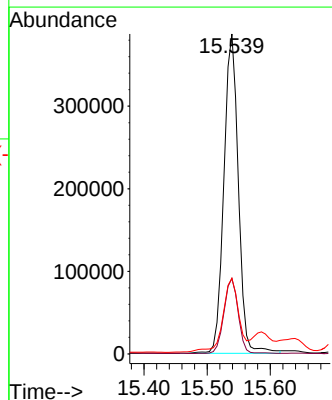
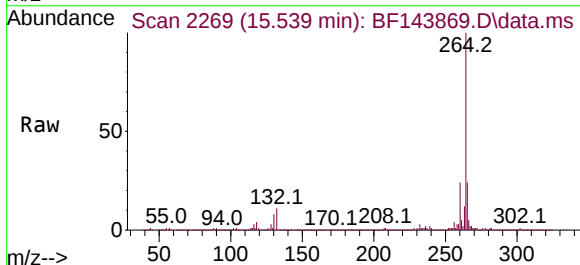
Manual Integrations
APPROVED

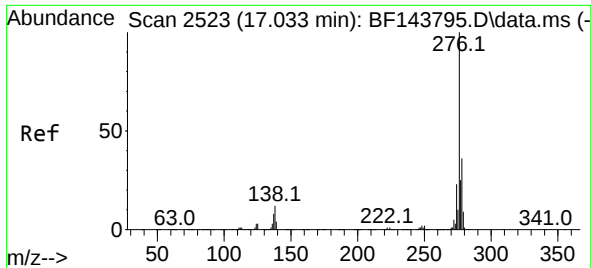
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2269
Delta R.T. 0.000 min
Lab File: BF143869.D
Acq: 02 Oct 2025 22:03

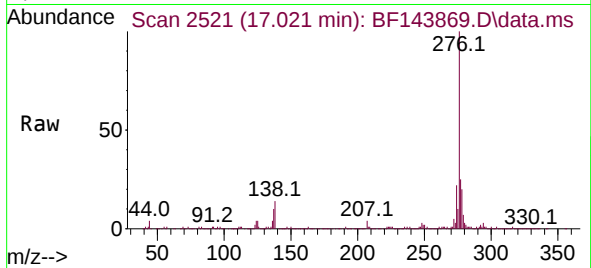
Tgt Ion:264 Resp: 616717
Ion Ratio Lower Upper
264 100
260 23.6 17.9 26.9
265 23.6 17.7 26.5





#87
Indeno(1,2,3-cd)pyrene
Concen: 6.094 ng
RT: 17.021 min Scan# 2195
Delta R.T. -0.023 min
Lab File: BF143869.D
Acq: 02 Oct 2025 22:03

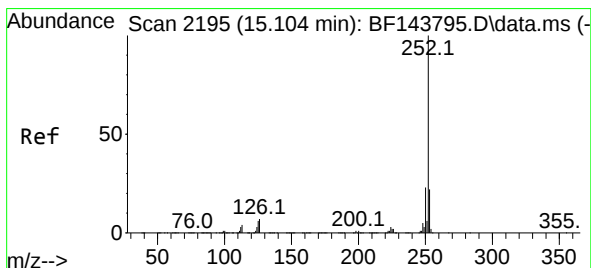
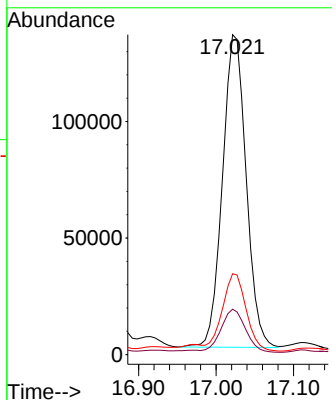
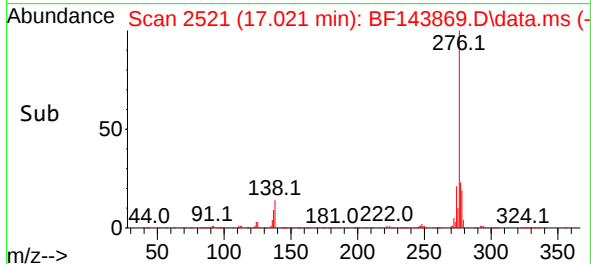
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-2-WCDL



Tgt Ion: 276 Resp: 285135
Ion Ratio Lower Upper
276 100
138 14.7 10.6 15.8
277 24.8 20.7 31.1

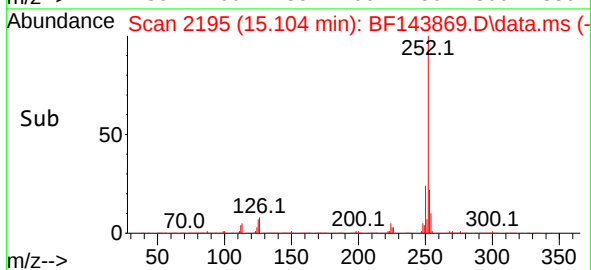
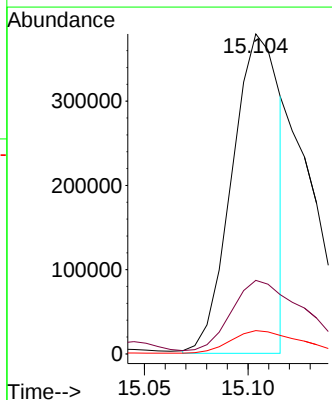
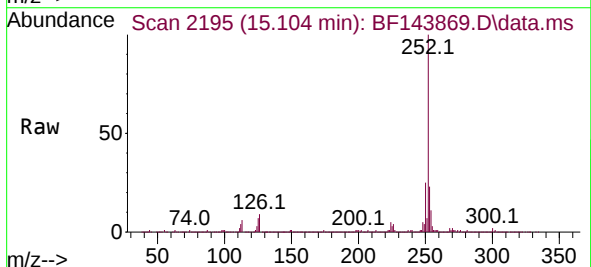
Manual Integrations
APPROVED

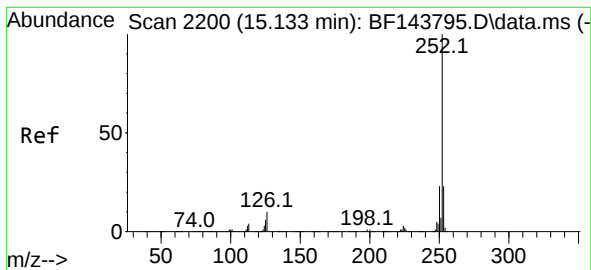
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



#88
Benzo(b)fluoranthene
Concen: 19.288 ng m
RT: 15.104 min Scan# 2195
Delta R.T. 0.000 min
Lab File: BF143869.D
Acq: 02 Oct 2025 22:03

Tgt Ion: 252 Resp: 605757
Ion Ratio Lower Upper
252 100
253 23.0 17.8 26.8
125 7.3 4.4 6.6#





#89

Benzo(k)fluoranthene

Concen: 9.446 ng m

RT: 15.115 min Scan# 2197

Delta R.T. -0.023 min

Lab File: BF143869.D

Acq: 02 Oct 2025 22:03

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE-2-WCDL

Tgt Ion:252 Resp: 298063

Ion Ratio Lower Upper

252 100

253 23.0 17.9 26.9

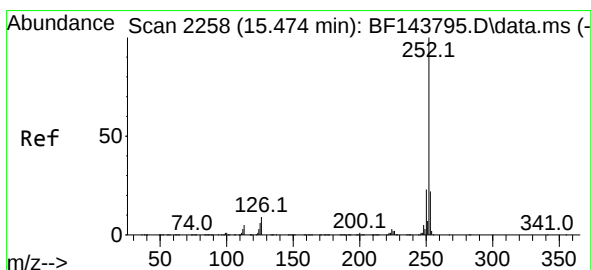
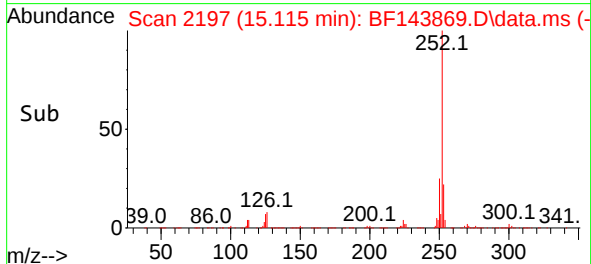
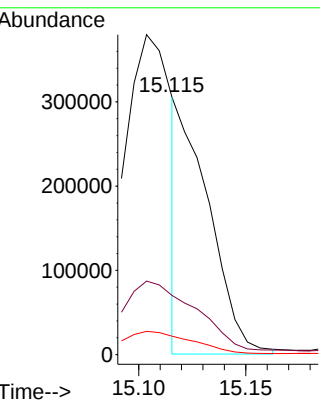
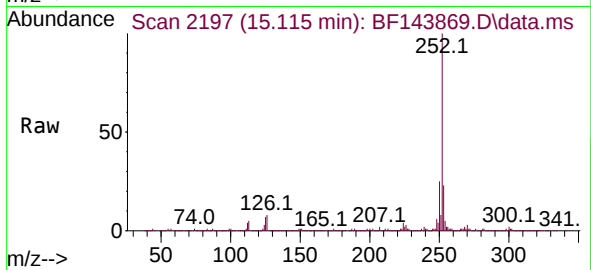
125 7.2 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/03/2025

Supervised By :Jagrut Upadhyay 10/03/2025



#90

Benzo(a)pyrene

Concen: 18.803 ng

RT: 15.474 min Scan# 2258

Delta R.T. -0.006 min

Lab File: BF143869.D

Acq: 02 Oct 2025 22:03

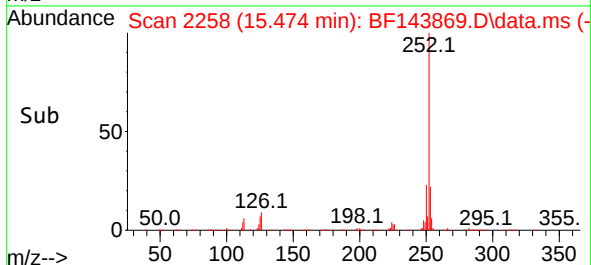
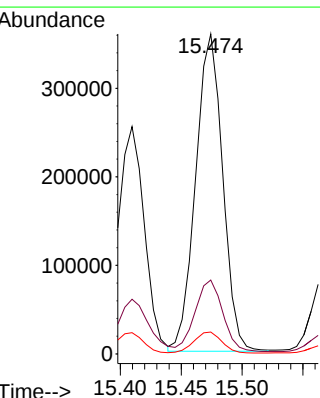
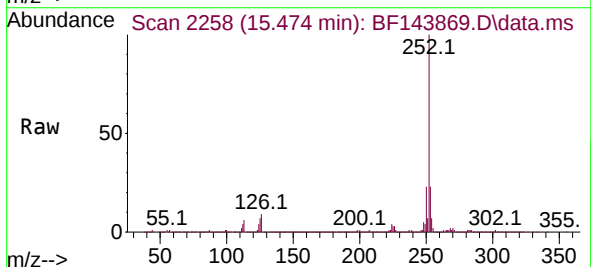
Tgt Ion:252 Resp: 555095

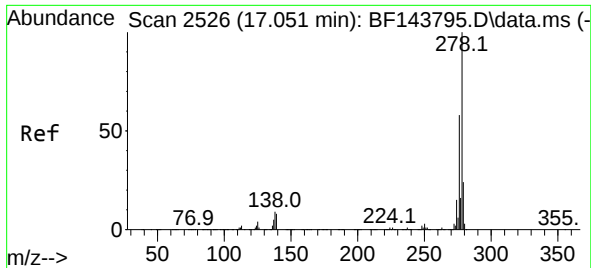
Ion Ratio Lower Upper

252 100

253 23.1 17.6 26.4

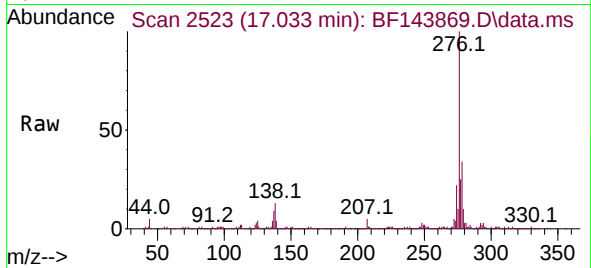
125 6.8 5.0 7.4





#91
Dibenzo(a,h)anthracene
Concen: 2.290 ng
RT: 17.033 min Scan# 2526
Delta R.T. -0.035 min
Lab File: BF143869.D
Acq: 02 Oct 2025 22:03

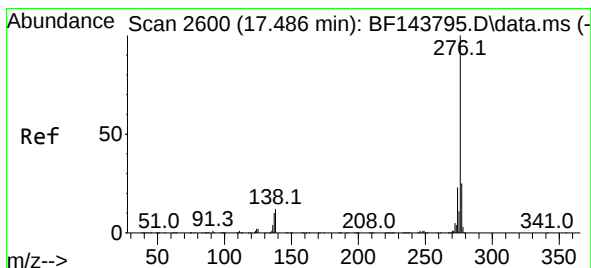
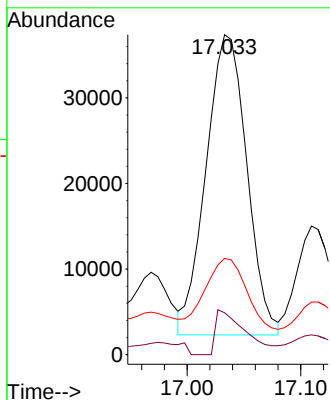
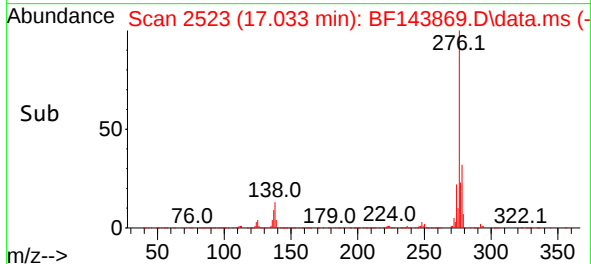
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-2-WCDL



Tgt Ion:278 Resp: 87636
Ion Ratio Lower Upper
278 100
139 13.1 6.7 10.1
279 30.1 19.3 28.9

Manual Integrations
APPROVED

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



#92
Benzo(g,h,i)perylene
Concen: 7.335 ng
RT: 17.474 min Scan# 2598
Delta R.T. -0.029 min
Lab File: BF143869.D
Acq: 02 Oct 2025 22:03

Tgt Ion:276 Resp: 270597
Ion Ratio Lower Upper
276 100
277 24.7 19.6 29.4
138 14.6 9.2 13.8

