

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100225\
 Data File : BF143868.D
 Acq On : 02 Oct 2025 21:35
 Operator : RC/JU
 Sample : Q3256-01DL 10X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILE-1-WCDL

Manual Integrations
 APPROVED

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

Quant Time: Oct 03 01:29:47 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	6.881	152	146042	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	531877	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	262622	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	385590	20.000	ng	0.00
76) Chrysene-d12	14.057	240	413020	20.000	ng	0.00
86) Perylene-d12	15.539	264	608240	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	64520	7.178	ng	-0.01
7) Phenol-d6	6.498	99	78894	7.596	ng	-0.01
23) Nitrobenzene-d5	7.440	82	43633	5.022	ng	-0.01
42) 2,4,6-Tribromophenol	10.710	330	18271	4.699	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	95686	5.686	ng	0.00
79) Terphenyl-d14	12.998	244	107730	5.305	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.187	128	136715	5.369	ng	99
37) 2-Methylnaphthalene	8.881	142	168882	10.402	ng	99
38) 1-Methylnaphthalene	8.975	142	174266	11.214	ng	100
49) Acenaphthylene	9.781	152	116674	5.538	ng	# 95
52) Acenaphthene	9.951	154	40444	2.917	ng	92
58) Fluorene	10.469	166	152215	10.445	ng	# 97
71) Phenanthrene	11.433	178	946980	47.837	ng	99
72) Anthracene	11.486	178	142176	7.160	ng	98
75) Fluoranthene	12.627	202	692967	34.804	ng	99
78) Pyrene	12.857	202	1046302	51.527	ng	99
81) Benzo(a)anthracene	14.045	228	562232m	25.339	ng	
83) Chrysene	14.080	228	561165	27.950	ng	# 95
87) Indeno(1,2,3-cd)pyrene	17.021	276	276067	5.982	ng	98
88) Benzo(b)fluoranthene	15.104	252	536149m	17.309	ng	
89) Benzo(k)fluoranthene	15.116	252	250149m	8.038	ng	
90) Benzo(a)pyrene	15.474	252	527210	18.108	ng	97
91) Dibenzo(a,h)anthracene	17.039	278	89621	2.374	ng	# 83
92) Benzo(g,h,i)perylene	17.474	276	285314	7.841	ng	# 97

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

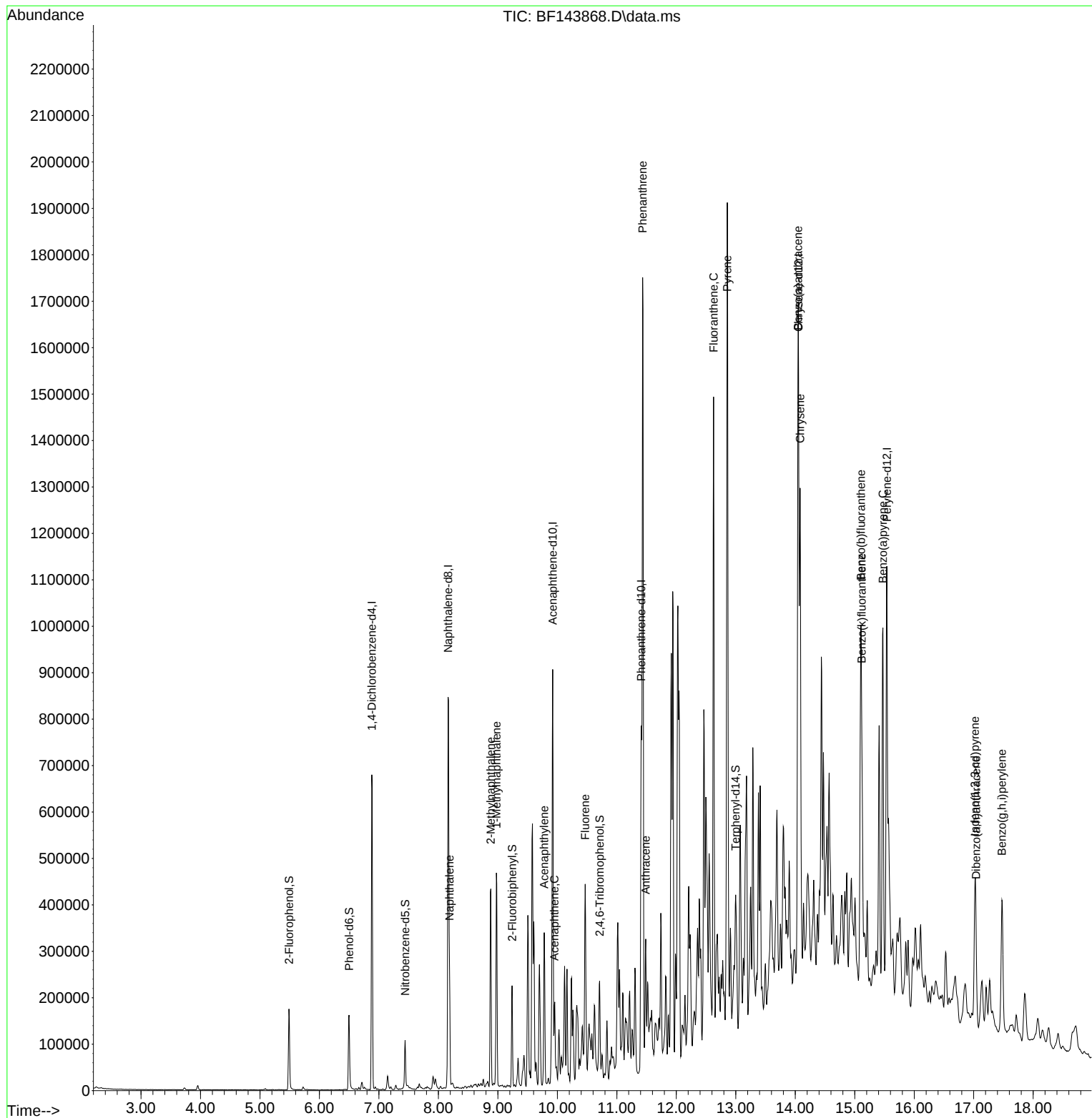
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100225\
Data File : BF143868.D
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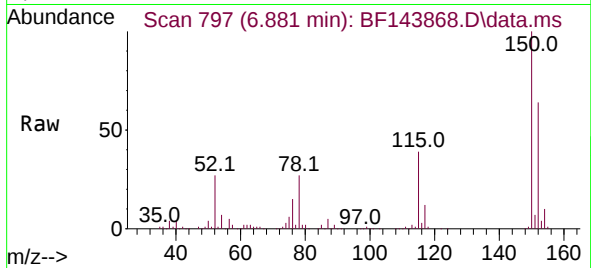
Quant Time: Oct 03 01:29:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 798
Delta R.T. -0.006 min
Lab File: BF143868.D
Acq: 02 Oct 2025 21:35

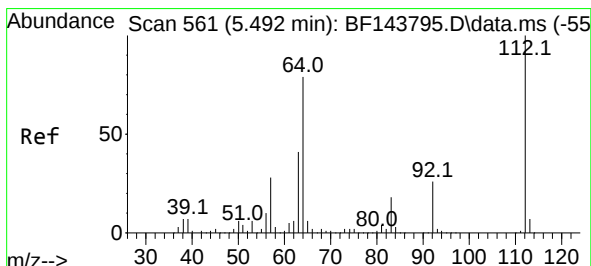
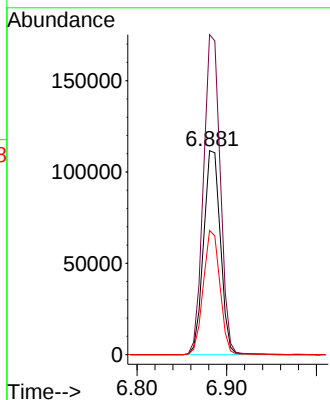
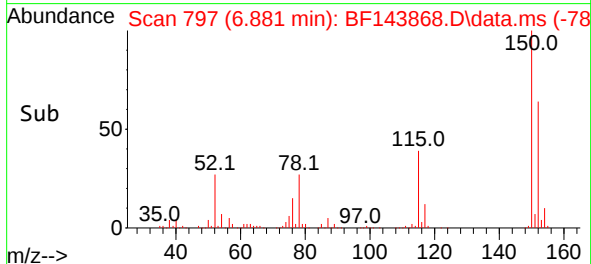
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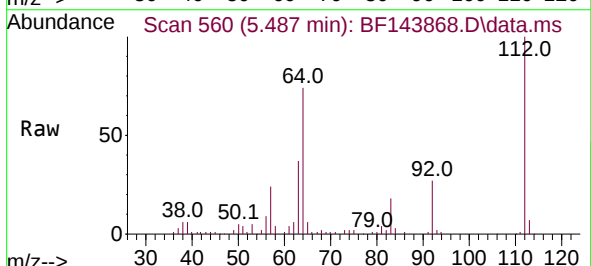
Tgt Ion:152 Resp: 146042
Ion Ratio Lower Upper
152 100
150 156.9 129.6 194.4
115 60.9 49.0 73.4

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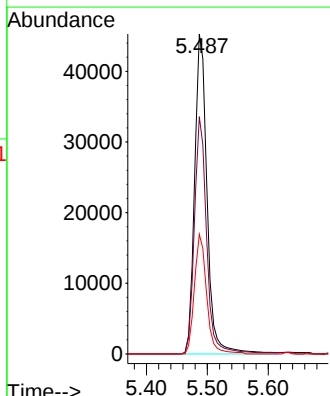
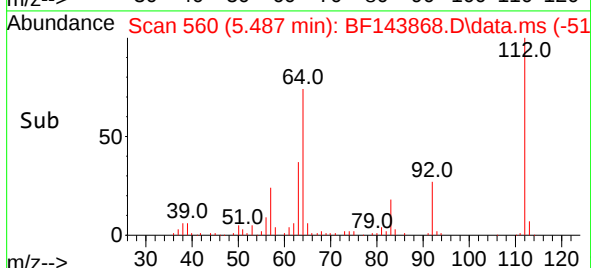
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

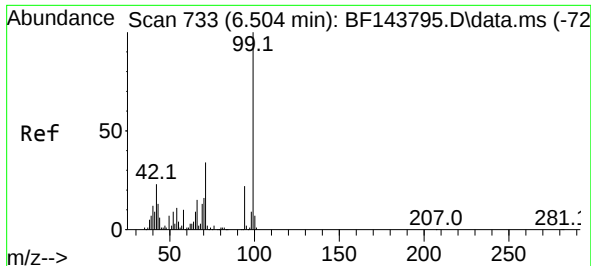


#5
2-Fluorophenol
Concen: 7.178 ng
RT: 5.487 min Scan# 560
Delta R.T. -0.011 min
Lab File: BF143868.D
Acq: 02 Oct 2025 21:35



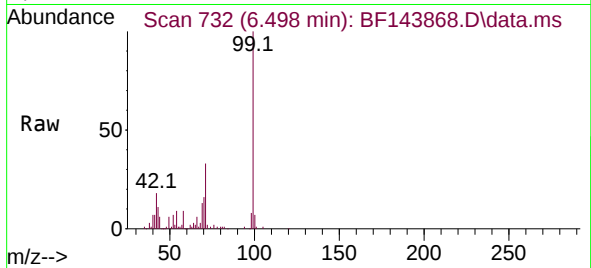
Tgt Ion:112 Resp: 64520
Ion Ratio Lower Upper
112 100
64 74.1 63.0 94.4
63 37.4 32.6 49.0





#7
Phenol-d6
Concen: 7.596 ng
RT: 6.498 min Scan# 733
Delta R.T. -0.012 min
Lab File: BF143868.D
Acq: 02 Oct 2025 21:35

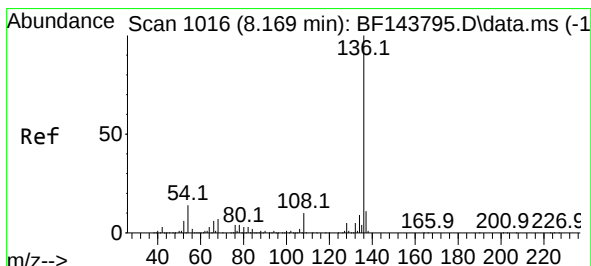
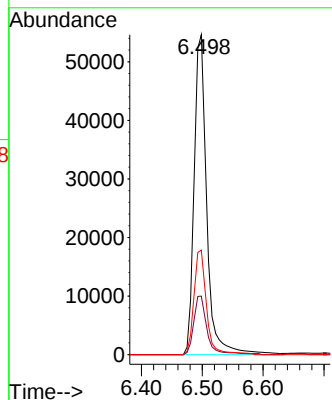
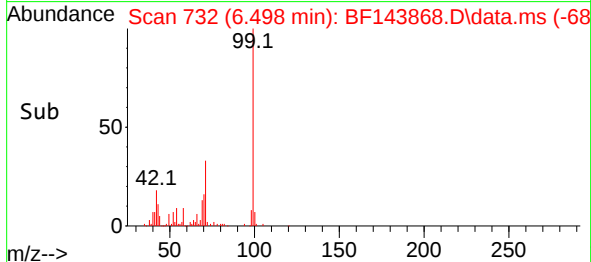
Instrument :
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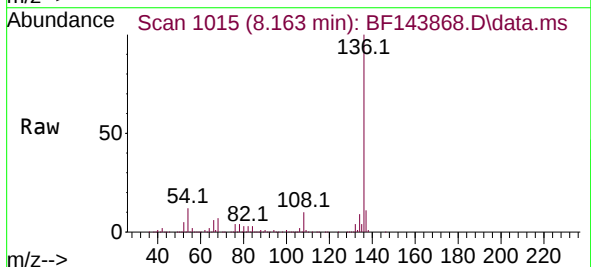
Tgt Ion: 99 Resp: 78894
Ion Ratio Lower Upper
99 100
42 18.3 18.6 28.0
71 32.7 27.0 40.4

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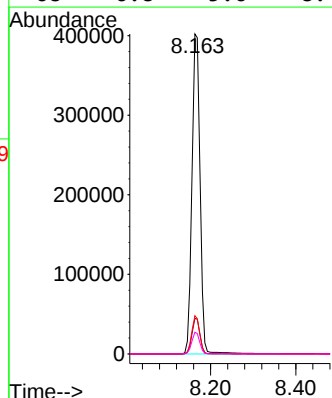
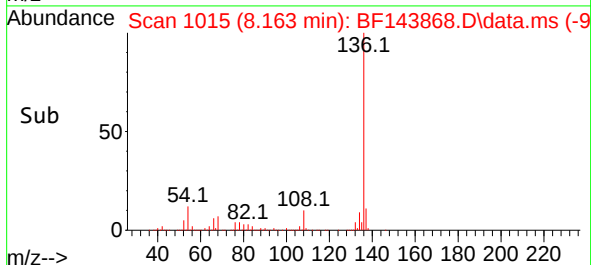
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

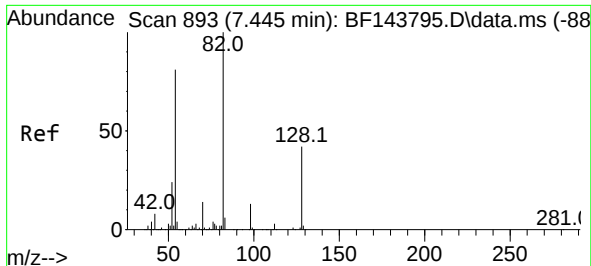


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF143868.D
Acq: 02 Oct 2025 21:35



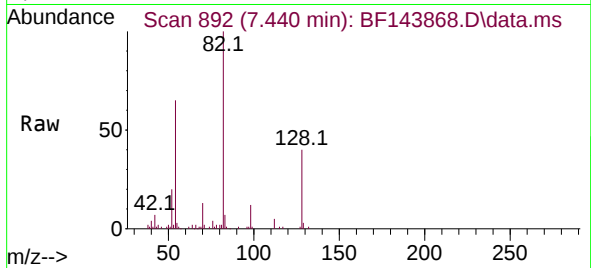
Tgt Ion:136 Resp: 531877
Ion Ratio Lower Upper
136 100
137 11.1 9.0 13.4
54 11.9 11.2 16.8
68 6.8 5.6 8.4





#23
Nitrobenzene-d5
Concen: 5.022 ng
RT: 7.440 min Scan# 89
Delta R.T. -0.011 min
Lab File: BF143868.D
Acq: 02 Oct 2025 21:35

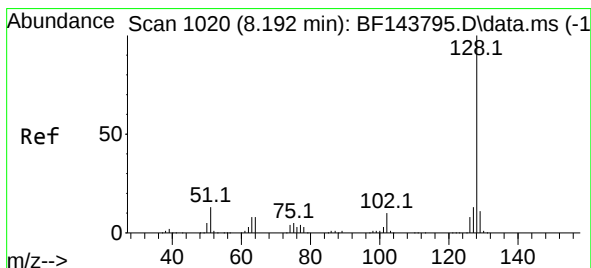
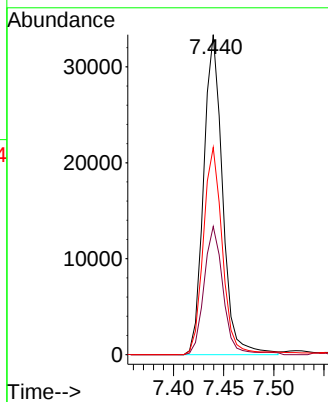
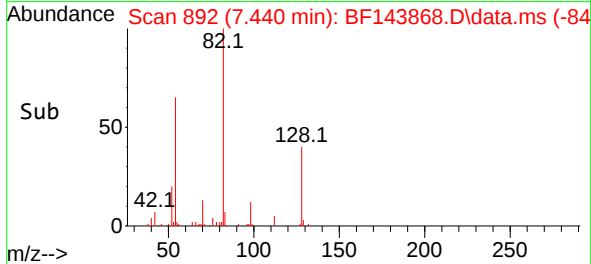
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1-WCDL



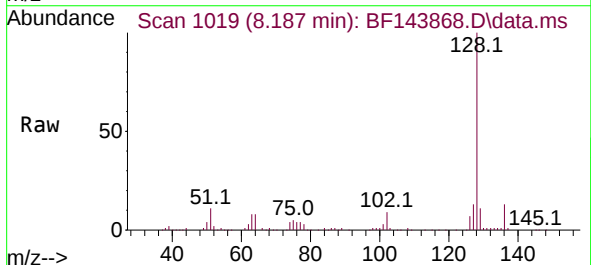
Tgt Ion: 82 Resp: 43633
Ion Ratio Lower Upper
82 100
128 40.0 33.3 49.9
54 64.7 64.2 96.4

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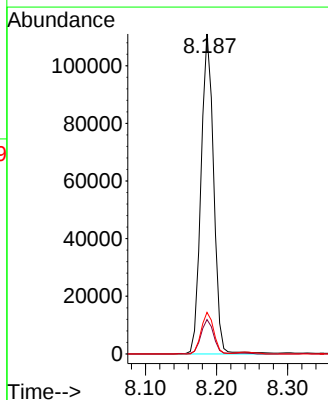
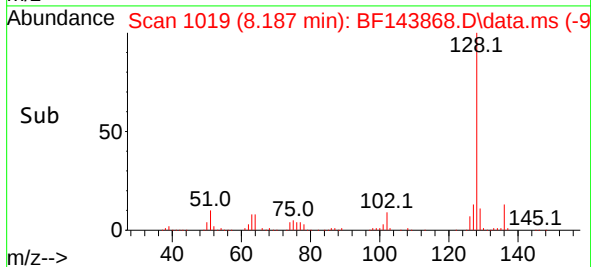
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

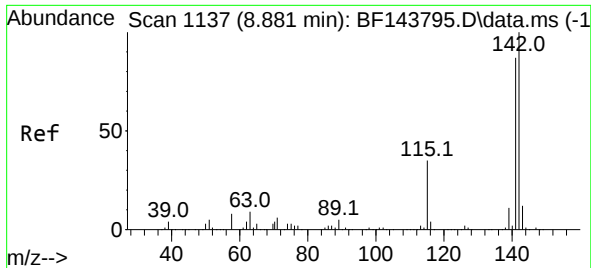


#31
Naphthalene
Concen: 5.369 ng
RT: 8.187 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF143868.D
Acq: 02 Oct 2025 21:35



Tgt Ion:128 Resp: 136715
Ion Ratio Lower Upper
128 100
129 10.7 8.8 13.2
127 13.0 10.2 15.4





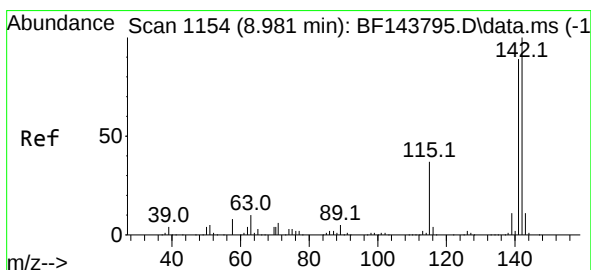
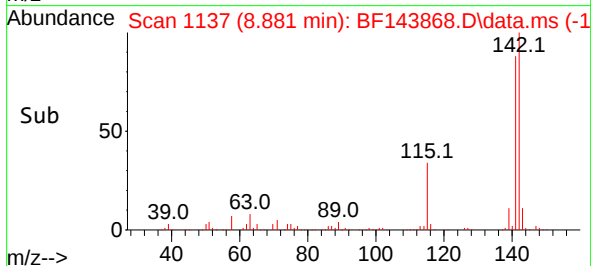
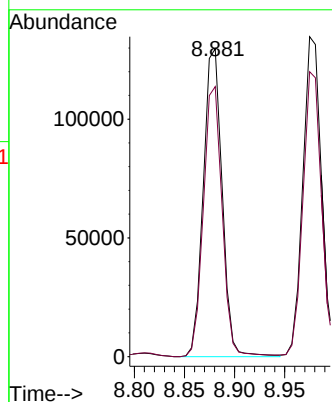
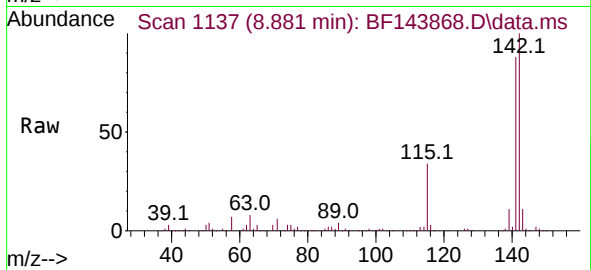
#37
2-Methylnaphthalene
Concen: 10.402 ng
RT: 8.881 min Scan# 1137
Delta R.T. 0.000 min
Lab File: BF143868.D
Acq: 02 Oct 2025 21:35

Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1-WCDL

Tgt Ion:142 Resp: 168882
Ion Ratio Lower Upper
142 100
141 87.7 69.4 104.0

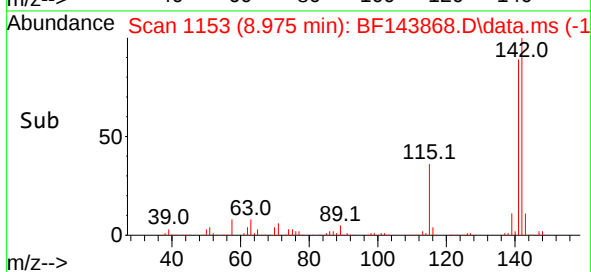
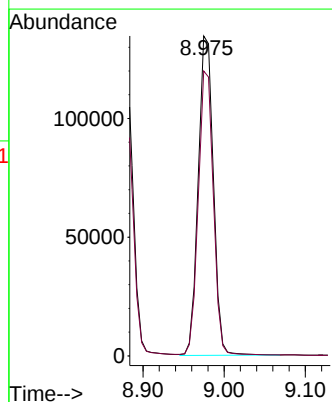
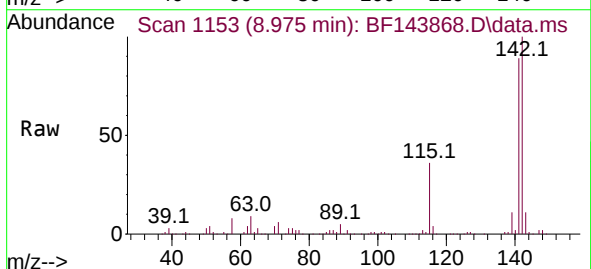
Manual Integrations
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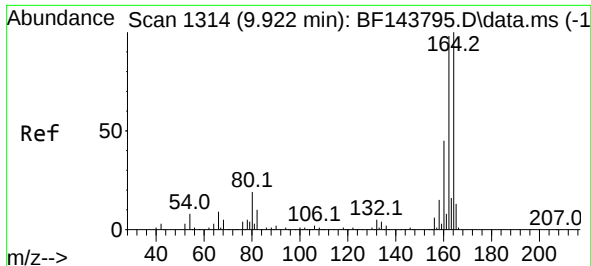
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



#38
1-Methylnaphthalene
Concen: 11.214 ng
RT: 8.975 min Scan# 1153
Delta R.T. -0.006 min
Lab File: BF143868.D
Acq: 02 Oct 2025 21:35

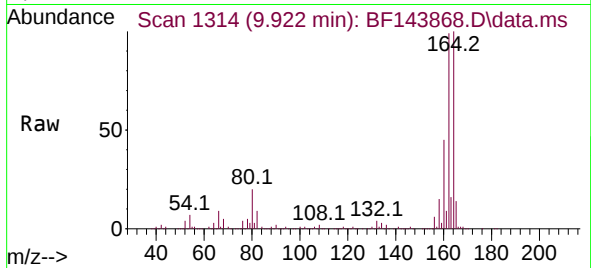
Tgt Ion:142 Resp: 174266
Ion Ratio Lower Upper
142 100
141 89.0 71.1 106.7





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1314
Delta R.T. -0.006 min
Lab File: BF143868.D
Acq: 02 Oct 2025 21:35

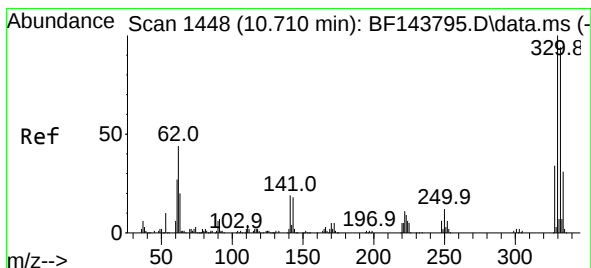
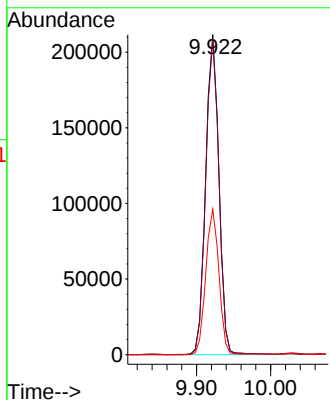
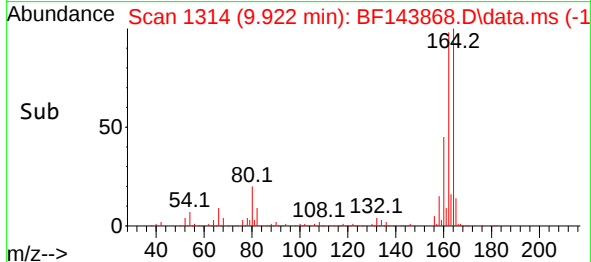
Instrument :
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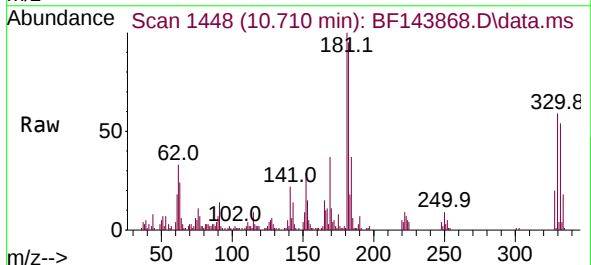
Tgt Ion:164 Resp: 26262
Ion Ratio Lower Upper
164 100
162 98.6 78.8 118.2
160 45.4 35.8 53.6

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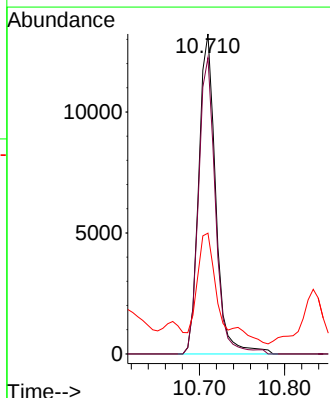
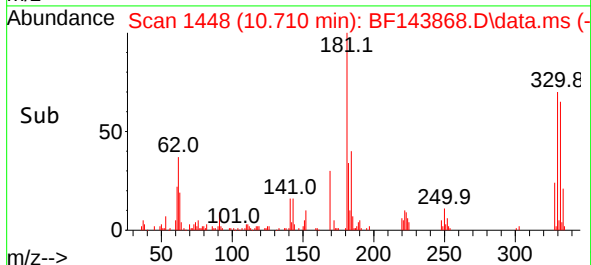
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

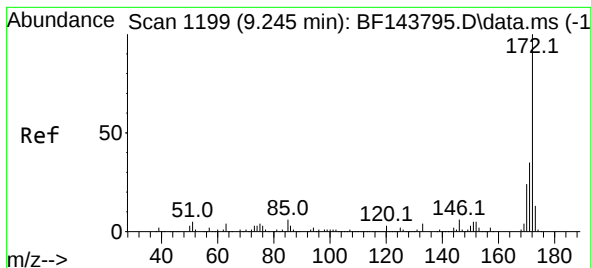


#42
2,4,6-Tribromophenol
Concen: 4.699 ng
RT: 10.710 min Scan# 1448
Delta R.T. -0.006 min
Lab File: BF143868.D
Acq: 02 Oct 2025 21:35



Tgt Ion:330 Resp: 18271
Ion Ratio Lower Upper
330 100
332 92.1 74.7 112.1
141 42.5 14.3 21.5#





#45

2-Fluorobiphenyl

Concen: 5.686 ng

RT: 9.239 min Scan# 1198

Delta R.T. -0.006 min

Lab File: BF143868.D

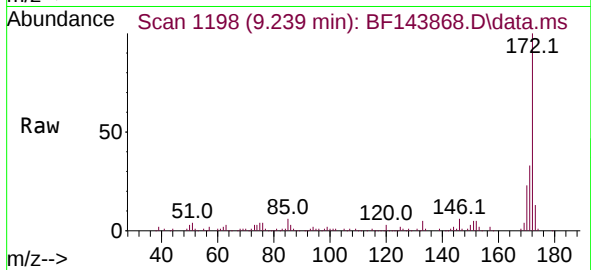
Acq: 02 Oct 2025 21:35

Instrument :

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ClientSampleId :

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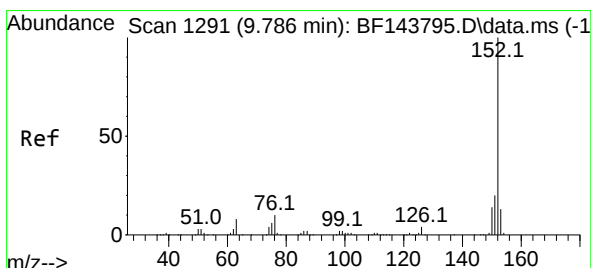
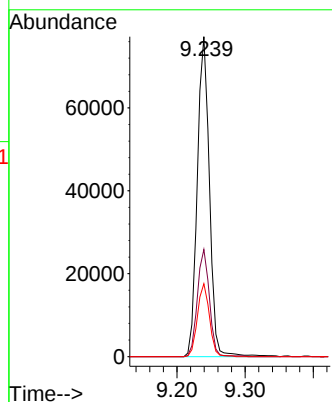
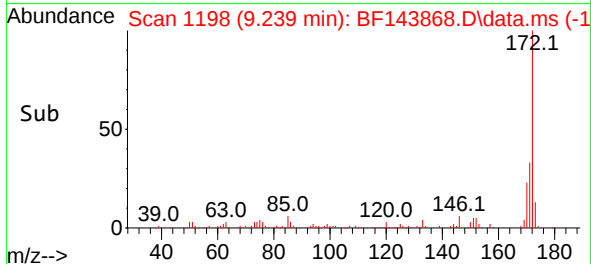
Tgt Ion:172	Resp:	95686
Ion Ratio	Lower	Upper
172	100	
171	33.5	27.9 41.9
170	22.8	19.1 28.7

Manual Integrations

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Supervised By :Jagrut Upadhyay 10/03/2025



#49

Acenaphthylene

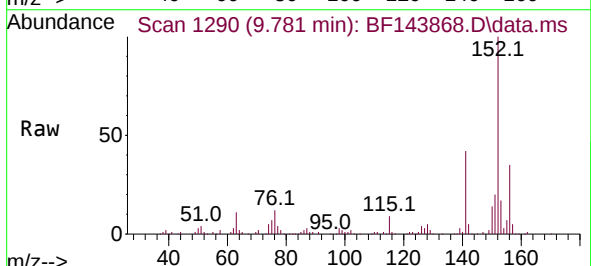
Concen: 5.538 ng

RT: 9.781 min Scan# 1290

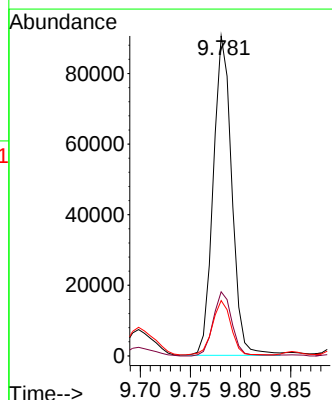
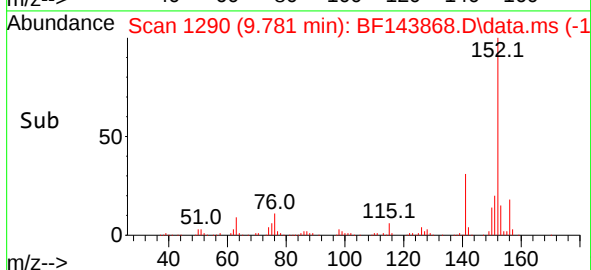
Delta R.T. -0.006 min

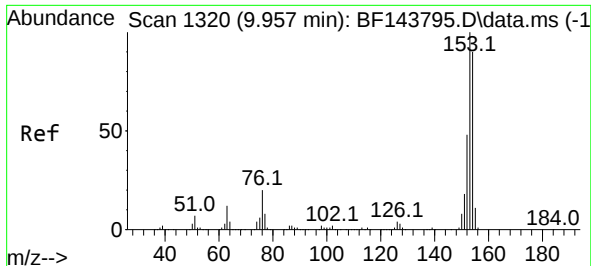
Lab File: BF143868.D

Acq: 02 Oct 2025 21:35



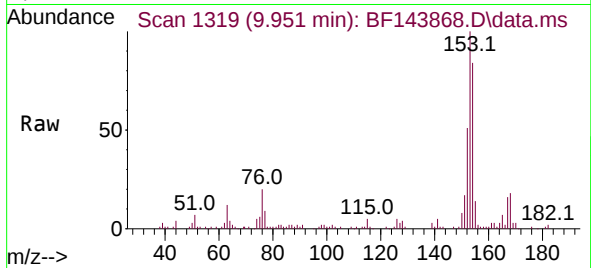
Tgt Ion:152	Resp:	116674
Ion Ratio	Lower	Upper
152	100	
151	20.0	15.7 23.5
153	17.3	10.6 15.8





#52
Acenaphthene
Concen: 2.917 ng
RT: 9.951 min Scan# 1319
Delta R.T. -0.012 min
Lab File: BF143868.D
Acq: 02 Oct 2025 21:35

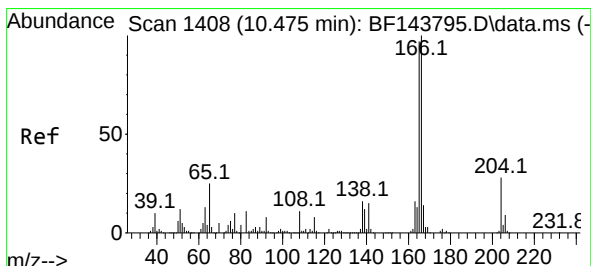
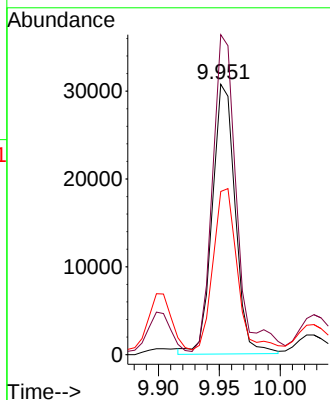
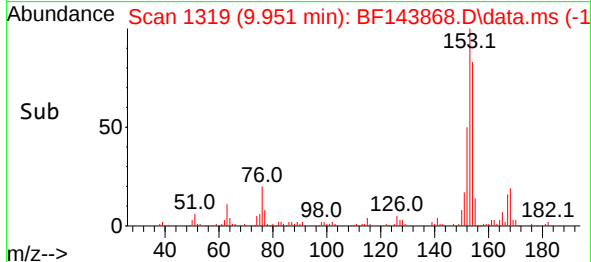
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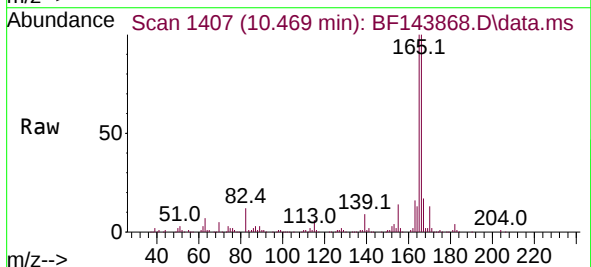
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Ion Ratio Lower Upper
154 100
153 118.4 88.7 133.1
152 60.4 42.7 64.1

Manual Integrations
APPROVED

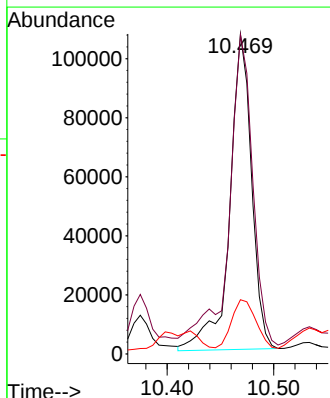
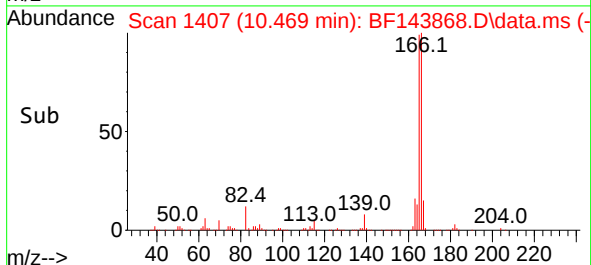
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

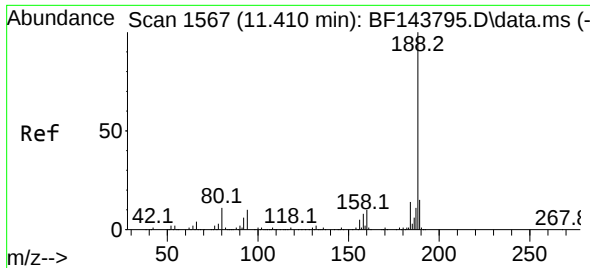


#58
Fluorene
Concen: 10.445 ng
RT: 10.469 min Scan# 1407
Delta R.T. -0.006 min
Lab File: BF143868.D
Acq: 02 Oct 2025 21:35



Tgt Ion:166 Resp: 152215
Ion Ratio Lower Upper
166 100
165 99.8 78.0 117.0
167 16.9 10.9 16.3#





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143868.D
Acq: 02 Oct 2025 21:35

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE-1-WCDL

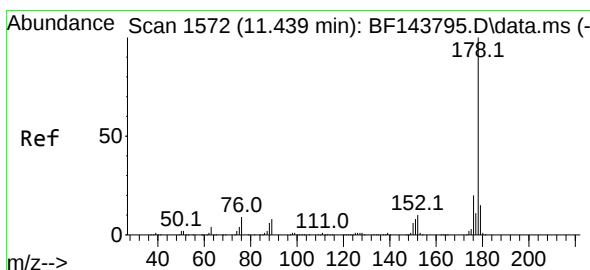
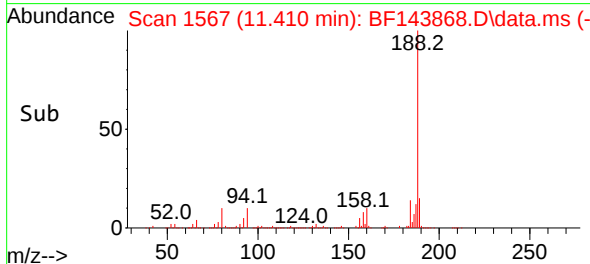
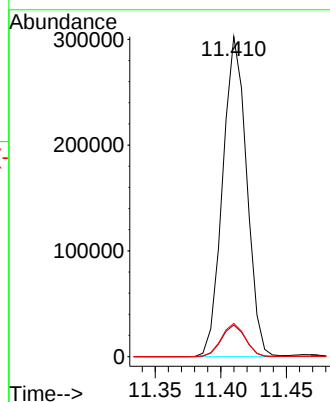
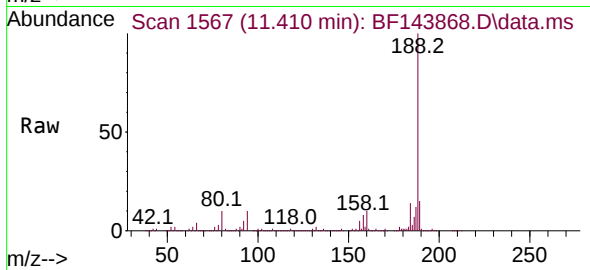
Tgt Ion:188 Resp: 385590
Ion Ratio Lower Upper
188 100
94 9.9 8.2 12.2
80 10.4 8.6 12.8

Manual Integrations

APPROVED

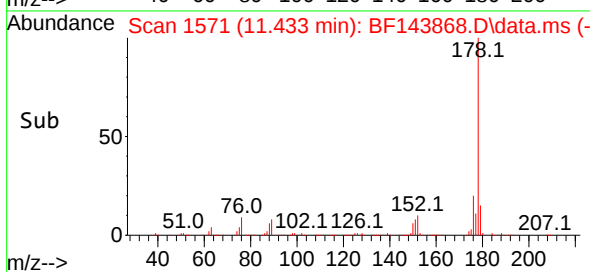
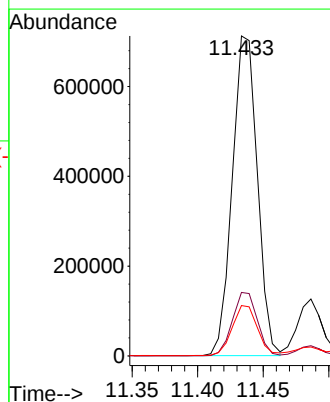
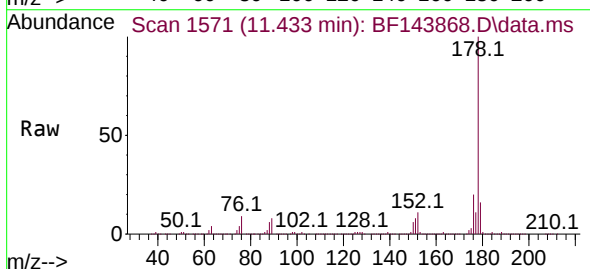
Reviewed By :Rahul Chavli 10/03/2025

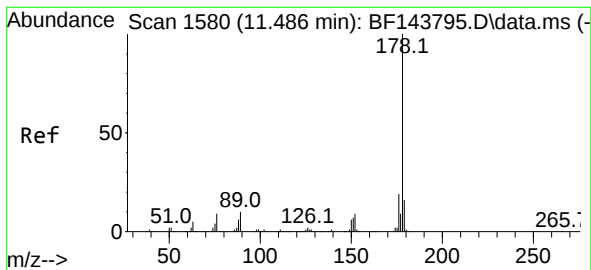
Supervised By :Jagrut Upadhyay 10/03/2025



#71
Phenanthrene
Concen: 47.837 ng
RT: 11.433 min Scan# 1571
Delta R.T. -0.006 min
Lab File: BF143868.D
Acq: 02 Oct 2025 21:35

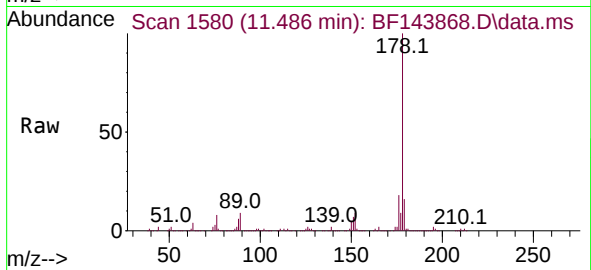
Tgt Ion:178 Resp: 946980
Ion Ratio Lower Upper
178 100
176 19.8 15.6 23.4
179 15.7 12.2 18.4





#72
 Anthracene
 Concen: 7.160 ng
 RT: 11.486 min Scan# 1580
 Delta R.T. -0.006 min
 Lab File: BF143868.D
 Acq: 02 Oct 2025 21:35

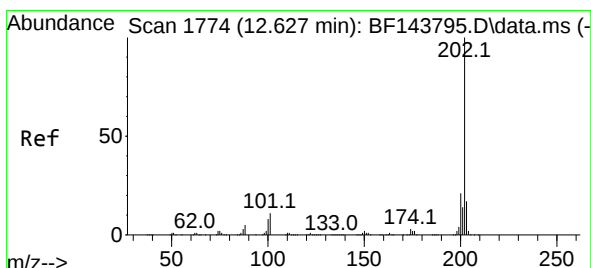
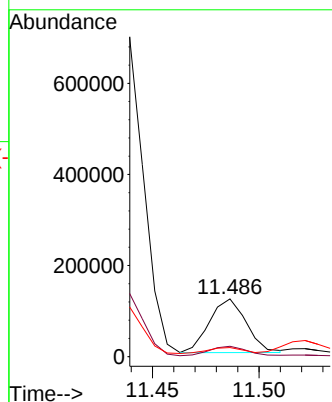
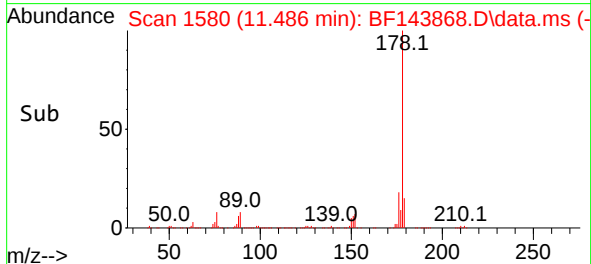
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILE-1-WCDL



Tgt Ion:178 Resp: 142176
 Ion Ratio Lower Upper
 178 100
 176 17.9 15.3 22.9
 179 15.7 12.8 19.2

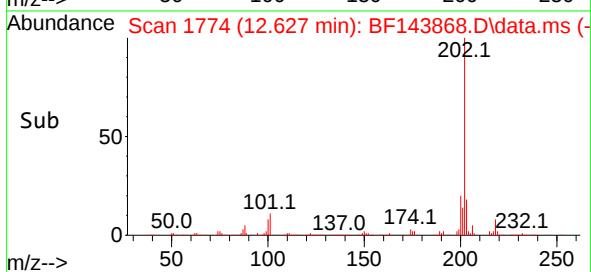
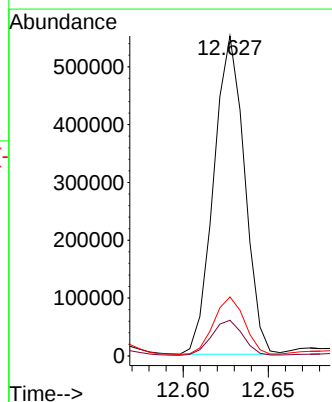
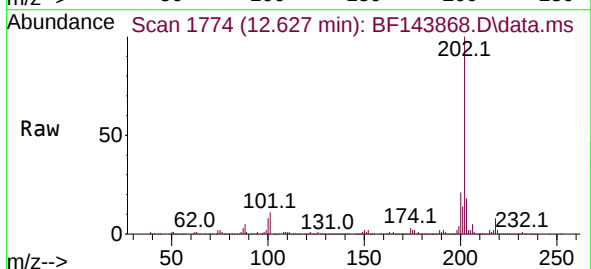
Manual Integrations
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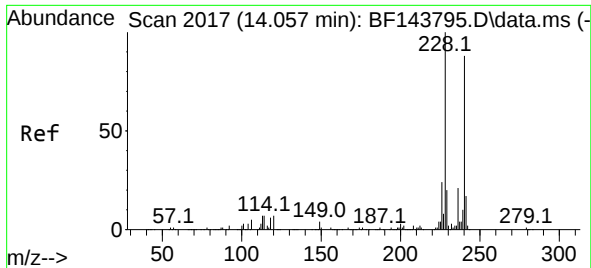
Reviewed By :Rahul Chavli 10/03/2025
 Supervised By :Jagrut Upadhyay 10/03/2025



#75
 Fluoranthene
 Concen: 34.804 ng
 RT: 12.627 min Scan# 1774
 Delta R.T. 0.000 min
 Lab File: BF143868.D
 Acq: 02 Oct 2025 21:35

Tgt Ion:202 Resp: 692967
 Ion Ratio Lower Upper
 202 100
 101 11.1 0.0 31.1
 203 18.4 0.0 37.4





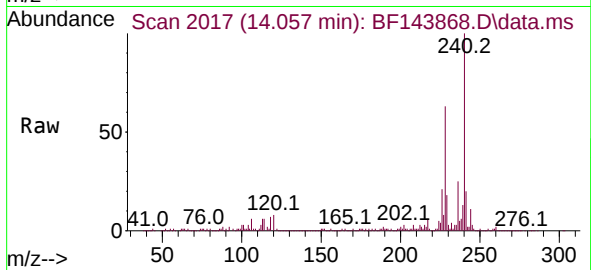
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF143868.D
Acq: 02 Oct 2025 21:35

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE-1-WCDL



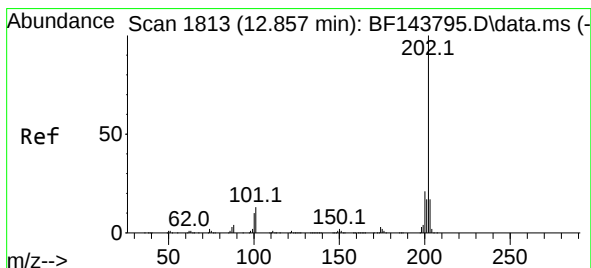
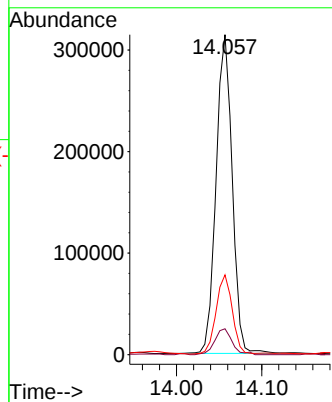
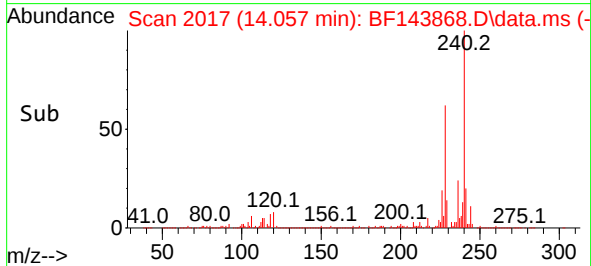
Tgt Ion:240 Resp: 413020
Ion Ratio Lower Upper
240 100
120 8.1 6.2 9.4
236 24.9 19.4 29.2

Manual Integrations

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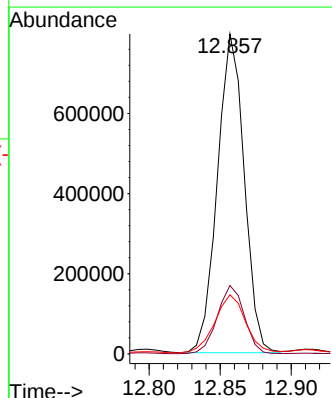
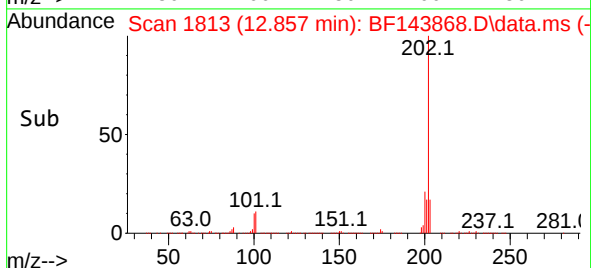
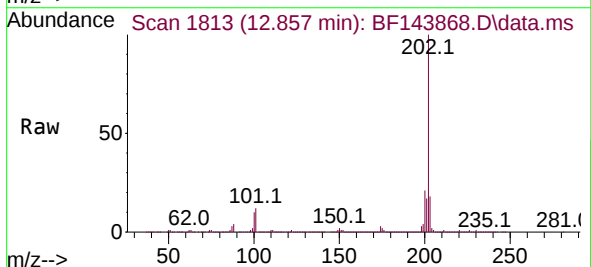
Reviewed By :Rahul Chavli 10/03/2025

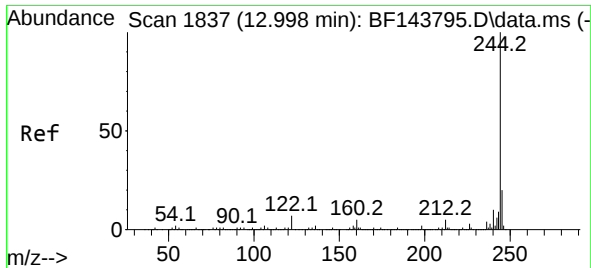
Supervised By :Jagrut Upadhyay 10/03/2025



#78
Pyrene
Concen: 51.527 ng
RT: 12.857 min Scan# 1813
Delta R.T. 0.000 min
Lab File: BF143868.D
Acq: 02 Oct 2025 21:35

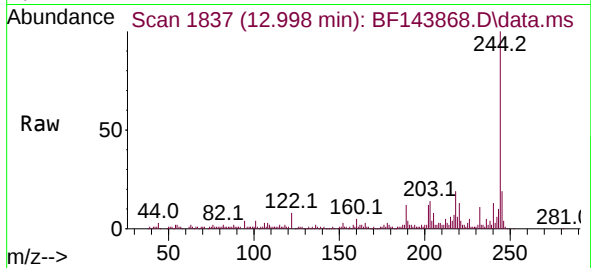
Tgt Ion:202 Resp: 1046302
Ion Ratio Lower Upper
202 100
200 21.4 17.0 25.4
203 18.5 13.9 20.9





#79
Terphenyl-d14
Concen: 5.305 ng
RT: 12.998 min Scan# 1837
Delta R.T. -0.006 min
Lab File: BF143868.D
Acq: 02 Oct 2025 21:35

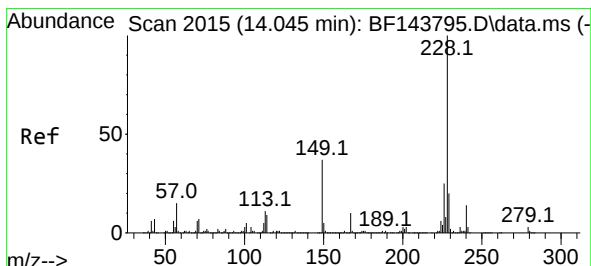
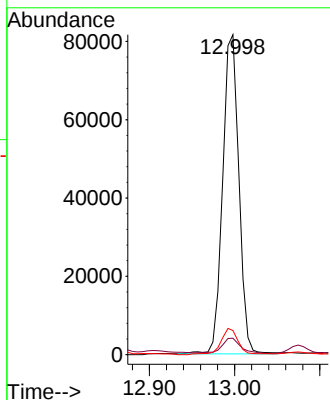
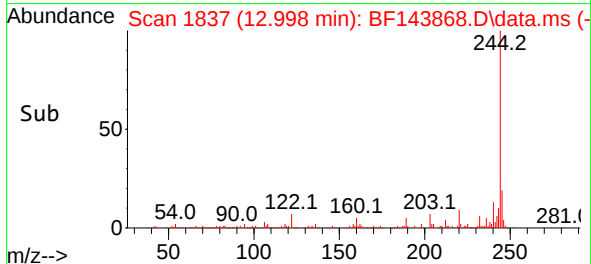
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1-WCDL



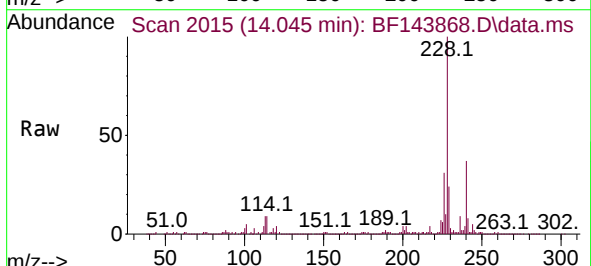
Tgt Ion:244 Resp: 107730
Ion Ratio Lower Upper
244 100
212 5.1 3.9 5.9
122 7.5 5.6 8.4

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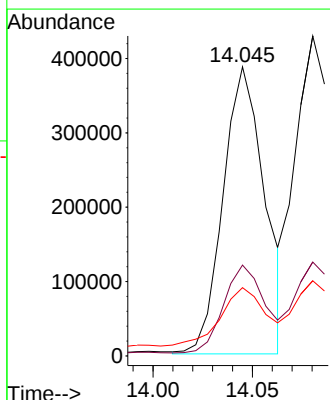
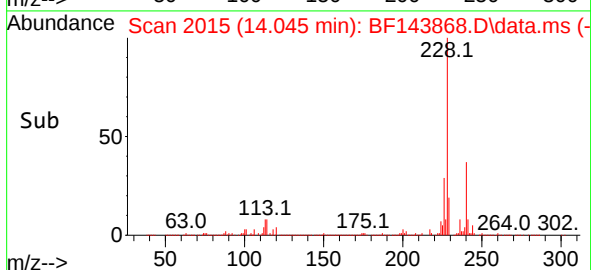
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025

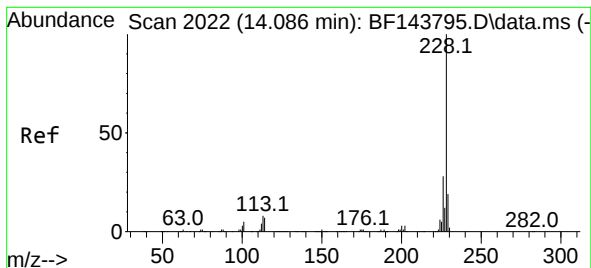


#81
Benzo(a)anthracene
Concen: 25.339 ng m
RT: 14.045 min Scan# 2015
Delta R.T. -0.006 min
Lab File: BF143868.D
Acq: 02 Oct 2025 21:35



Tgt Ion:228 Resp: 562232
Ion Ratio Lower Upper
228 100
226 31.4 20.2 30.2#
229 23.6 16.1 24.1





#83

Chrysene

Concen: 27.950 ng

RT: 14.080 min Scan# 2022

Delta R.T. -0.006 min

Lab File: BF143868.D

Acq: 02 Oct 2025 21:35

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE-1-WCDL

Tgt Ion:228 Resp: 561165

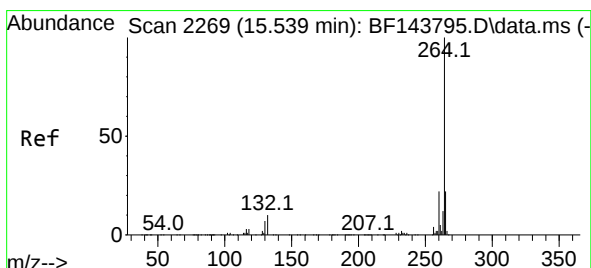
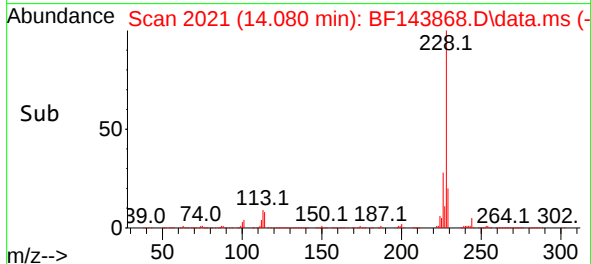
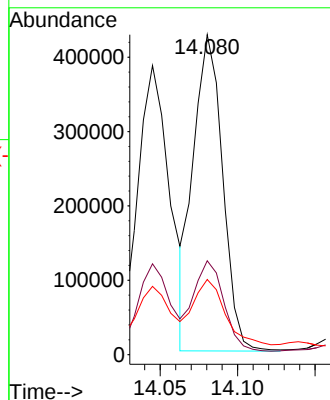
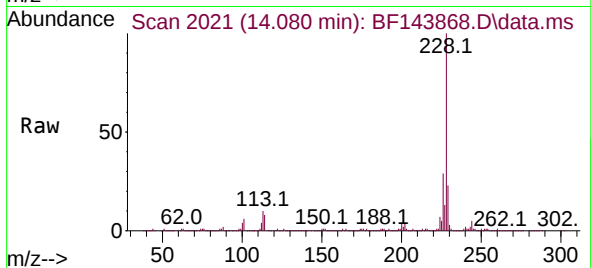
Ion	Ratio	Lower	Upper
228	100		
226	29.3	22.6	33.8
229	23.5	15.6	23.4

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

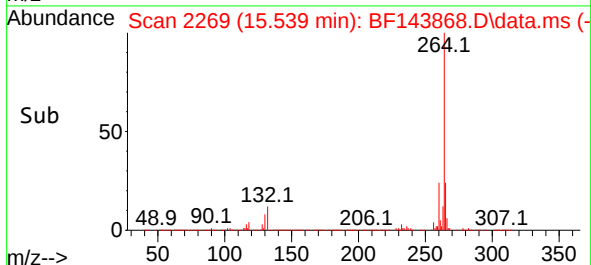
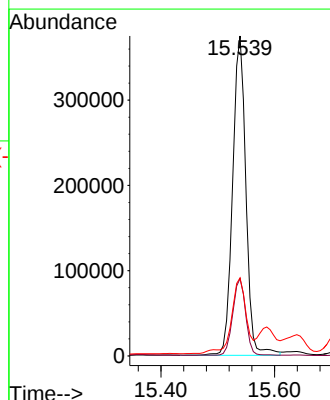
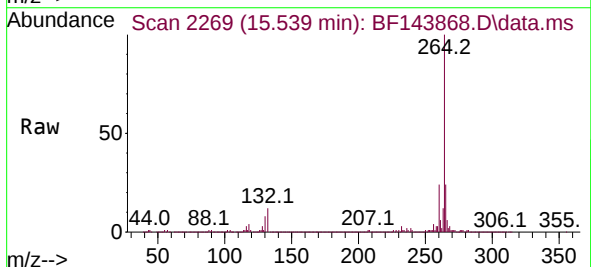
Delta R.T. 0.000 min

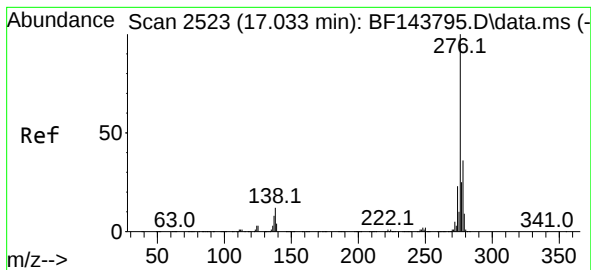
Lab File: BF143868.D

Acq: 02 Oct 2025 21:35

Tgt Ion:264 Resp: 608240

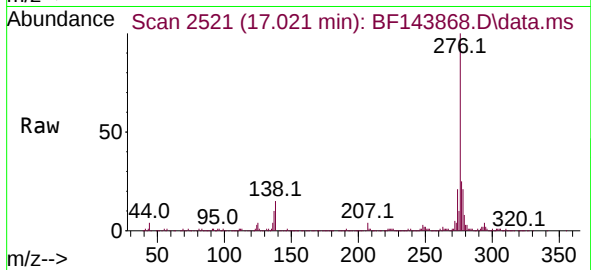
Ion	Ratio	Lower	Upper
264	100		
260	24.2	17.9	26.9
265	24.4	17.7	26.5





#87
Indeno(1,2,3-cd)pyrene
Concen: 5.982 ng
RT: 17.021 min Scan# 21
Delta R.T. -0.023 min
Lab File: BF143868.D
Acq: 02 Oct 2025 21:35

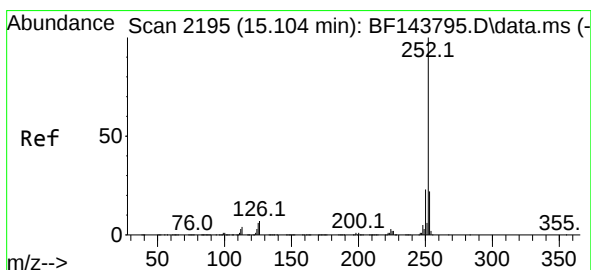
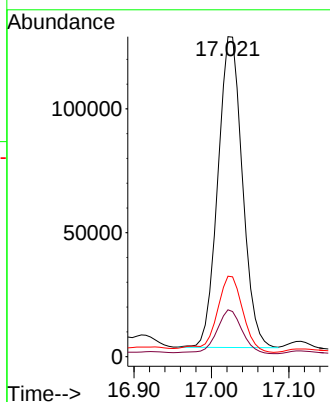
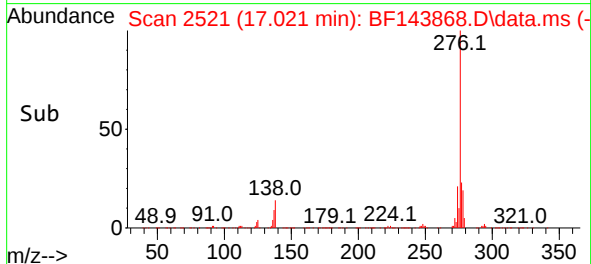
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1-WCDL



Tgt Ion:276 Resp: 27606
Ion Ratio Lower Upper
276 100
138 14.7 10.6 15.8
277 26.8 20.7 31.1

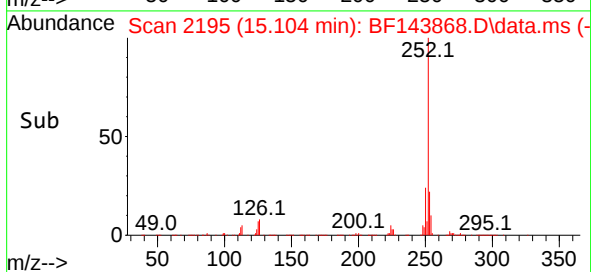
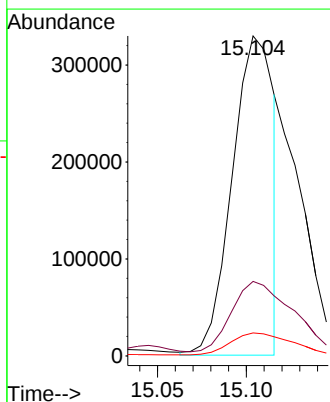
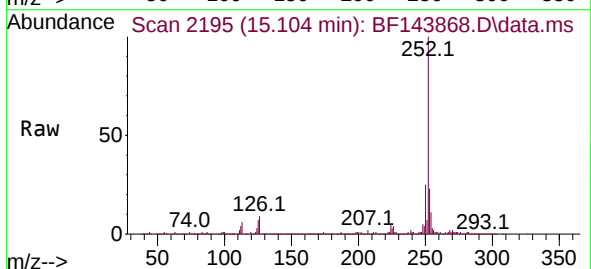
Manual Integrations
APPROVED

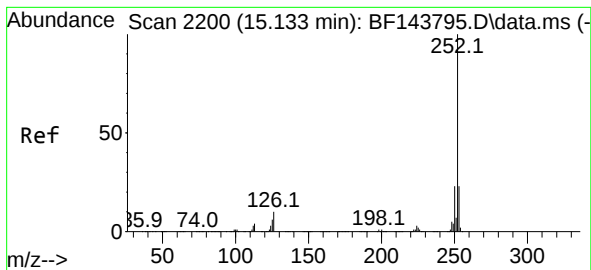
Reviewed By :Rahul Chavli 10/03/2025
Supervised By :Jagrut Upadhyay 10/03/2025



#88
Benzo(b)fluoranthene
Concen: 17.309 ng m
RT: 15.104 min Scan# 2195
Delta R.T. 0.000 min
Lab File: BF143868.D
Acq: 02 Oct 2025 21:35

Tgt Ion:252 Resp: 536149
Ion Ratio Lower Upper
252 100
253 23.3 17.8 26.8
125 7.2 4.4 6.6#





#89

Benzo(k)fluoranthene

Concen: 8.038 ng m

RT: 15.116 min Scan# 2197

Delta R.T. -0.023 min

Lab File: BF143868.D

Acq: 02 Oct 2025 21:35

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE-1-WCDL

Tgt Ion:252 Resp: 250149

Ion Ratio Lower Upper

252 100

253 23.0 17.9 26.9

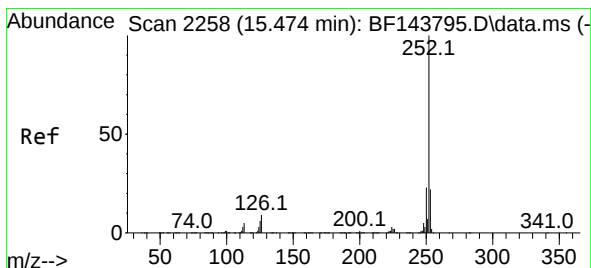
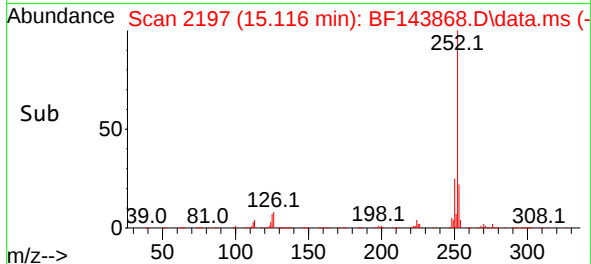
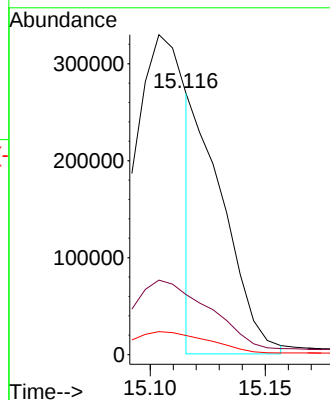
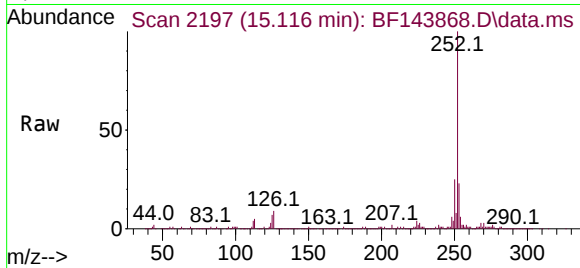
125 7.3 4.6 6.8

Manual Integrations

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Reviewed By :Rahul Chavli 10/03/2025

Supervised By :Jagrut Upadhyay 10/03/2025



#90

Benzo(a)pyrene

Concen: 18.108 ng

RT: 15.474 min Scan# 2258

Delta R.T. -0.006 min

Lab File: BF143868.D

Acq: 02 Oct 2025 21:35

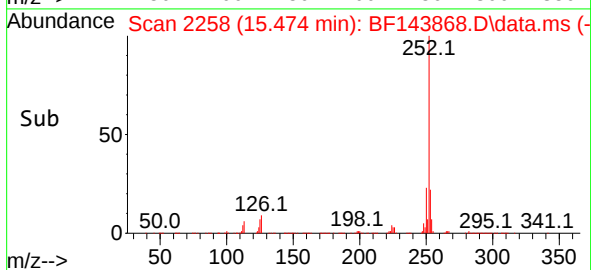
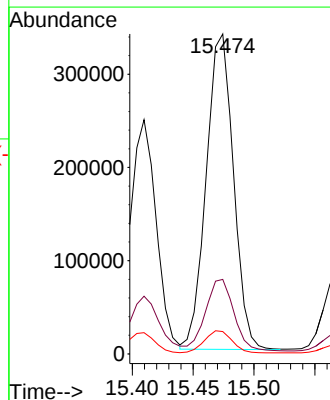
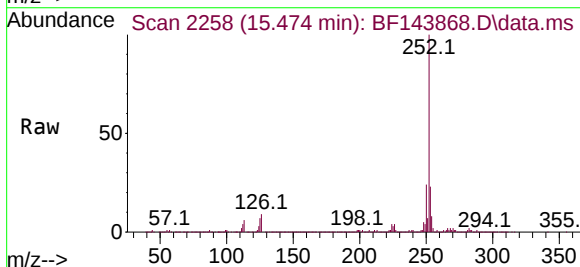
Tgt Ion:252 Resp: 527210

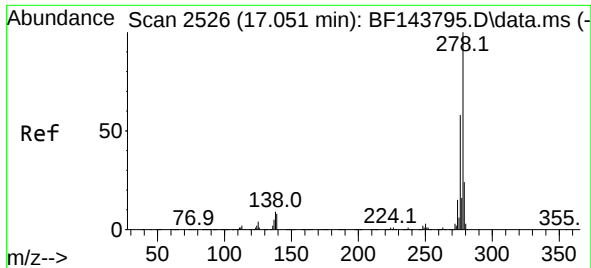
Ion Ratio Lower Upper

252 100

253 23.3 17.6 26.4

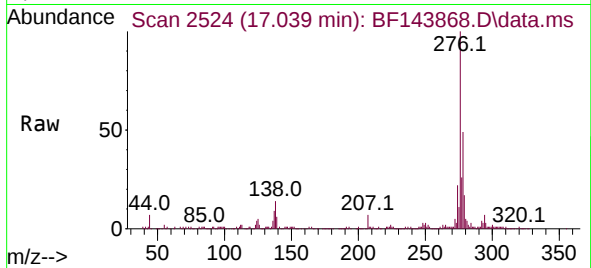
125 7.0 5.0 7.4





#91
Dibenzo(a,h)anthracene
Concen: 2.374 ng
RT: 17.039 min Scan# 21
Delta R.T. -0.029 min
Lab File: BF143868.D
Acq: 02 Oct 2025 21:35

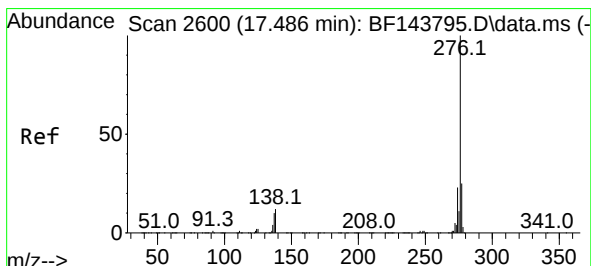
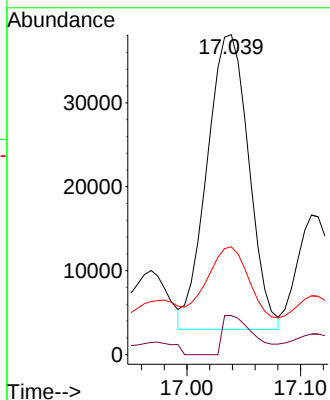
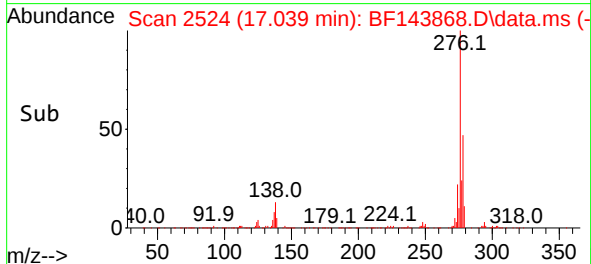
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1-WCDL



Tgt Ion:278 Resp: 89621
Ion Ratio Lower Upper
278 100
139 12.3 6.7 10.1
279 33.7 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: 7.841 ng
RT: 17.474 min Scan# 2598
Delta R.T. -0.029 min
Lab File: BF143868.D
Acq: 02 Oct 2025 21:35

Tgt Ion:276 Resp: 285314
Ion Ratio Lower Upper
276 100
277 24.4 19.6 29.4
138 14.5 9.2 13.8

