

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091125\
 Data File : BF143718.D
 Acq On : 11 Sep 2025 20:56
 Operator : RC/JU
 Sample : Q3077-03
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LAW-25-0139

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 09/12/2025
 Supervised By :Jagrut Upadhyay 09/12/2025

Quant Time: Sep 12 04:40:15 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 09 15:20:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	35028	20.000	ng	0.00
21) Naphthalene-d8	8.186	136	103722	20.000	ng	# 0.01
39) Acenaphthene-d10	9.986	164	65366	20.000	ng	# 0.06
64) Phenanthrene-d10	11.527	188	66695	20.000	ng	# 0.12
76) Chrysene-d12	14.115	240	102357	20.000	ng	# 0.07
86) Perylene-d12	15.568	264	56940	20.000	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.492	112	49140	23.935	ng	0.00
7) Phenol-d6	6.504	99	58655	23.464	ng	0.00
23) Nitrobenzene-d5	7.451	82	46615	27.954	ng	0.00
42) 2,4,6-Tribromophenol	10.816	330	2988	4.536	ng	0.11
45) 2-Fluorobiphenyl	9.298	172	82107	18.975	ng	0.05
79) Terphenyl-d14	13.086	244	68931	10.913	ng	0.09
Target Compounds						Qvalue
46) 1,1'-Biphenyl	9.410	154	191278	40.647	ng	99
58) Fluorene	10.769	166	6517812	1590.135	ng	# 85
75) Fluoranthene	12.757	202	149888	44.431	ng	70
78) Pyrene	12.974	202	211380	25.829	ng	# 86
81) Benzo(a)anthracene	14.104	228	207606	31.527	ng	95
83) Chrysene	14.139	228	150208m	24.906	ng	
84) Bis(2-ethylhexyl)phtha...	14.074	149	185144	50.605	ng	# 92
87) Indeno(1,2,3-cd)pyrene	17.039	276	12840	3.304	ng	# 94
88) Benzo(b)fluoranthene	15.139	252	119302m	35.197	ng	
89) Benzo(k)fluoranthene	15.157	252	37892m	12.387	ng	
90) Benzo(a)pyrene	15.504	252	29456	9.892	ng	# 71
92) Benzo(g,h,i)perylene	17.492	276	10391	3.446	ng	# 82

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

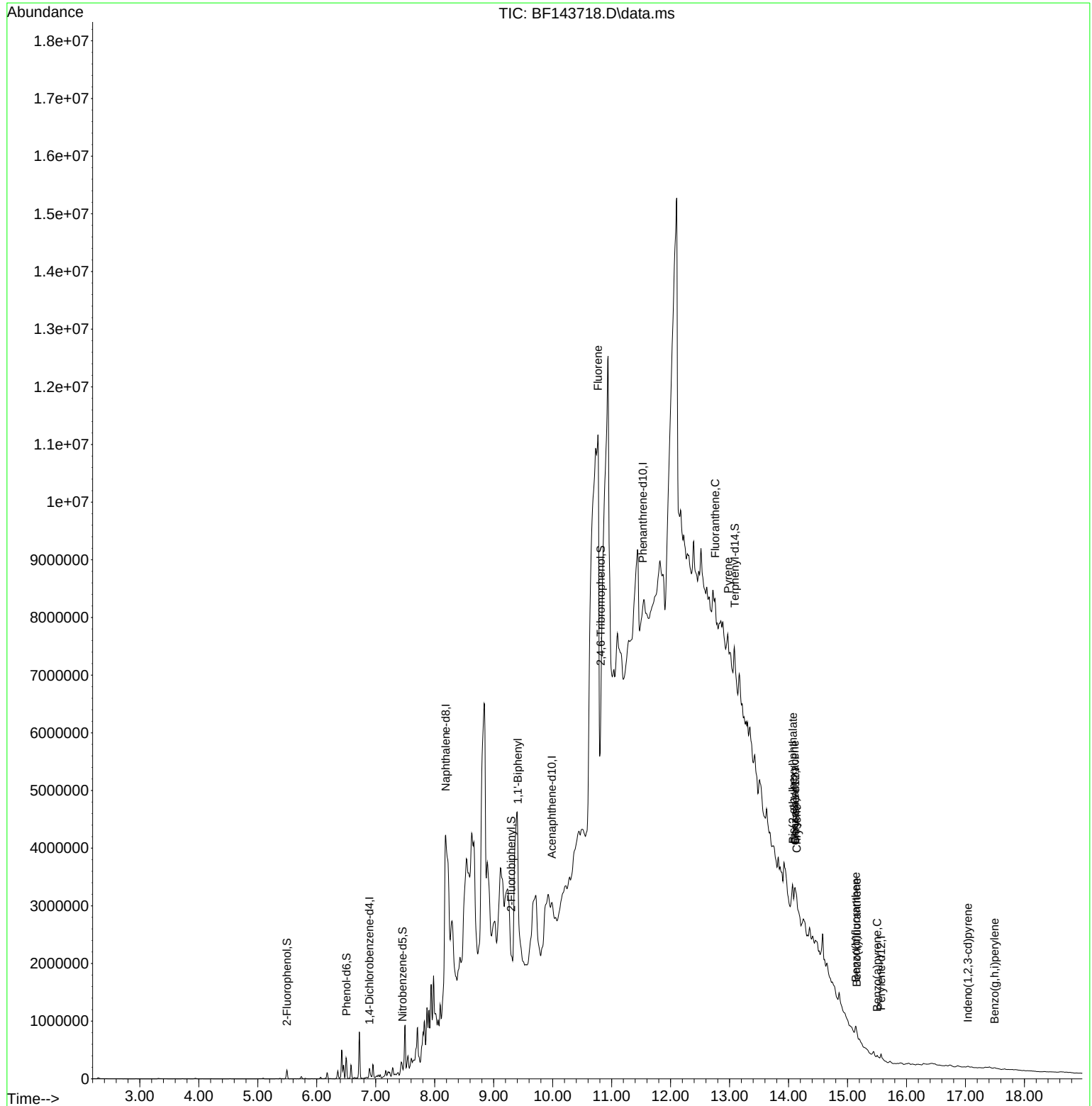
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091125\
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ALS Vial : 19 Sample Multiplier: 1

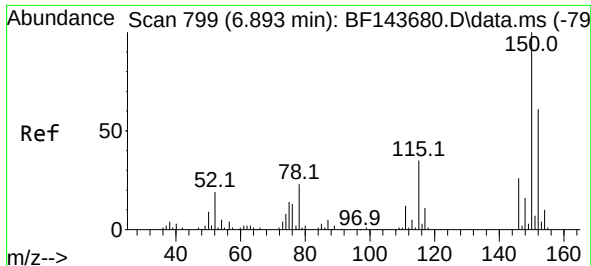
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Quant Time: Sep 12 04:40:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091025.M
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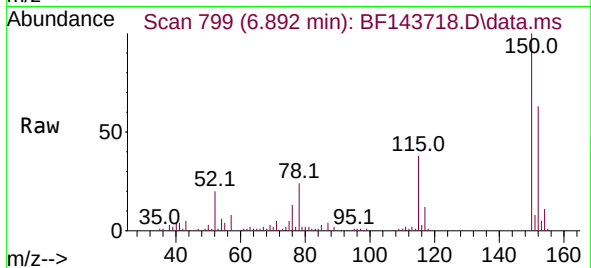
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 799
Delta R.T. -0.001 min
Lab File: BF143718.D
Acq: 11 Sep 2025 20:56

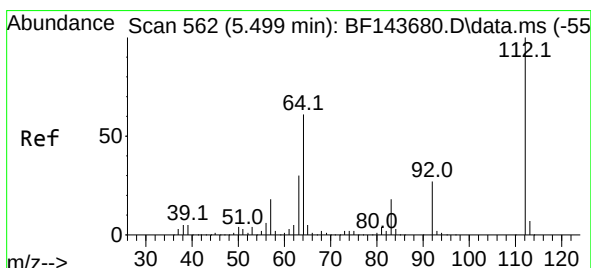
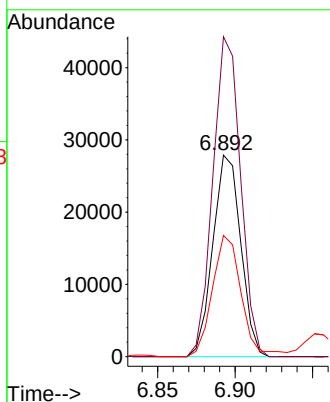
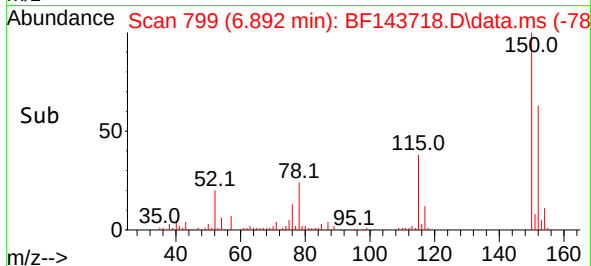
Instrument :
BNA_F
ClientSampleId :
LAW-25-0139



Tgt Ion:152 Resp: 35028
Ion Ratio Lower Upper
152 100
150 158.8 130.7 196.1
115 60.2 45.9 68.9

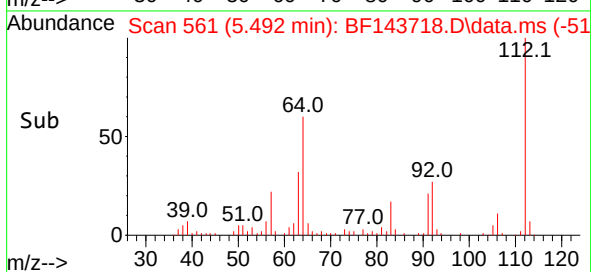
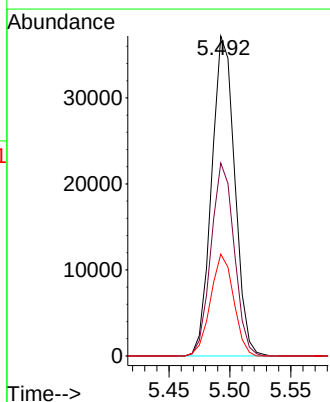
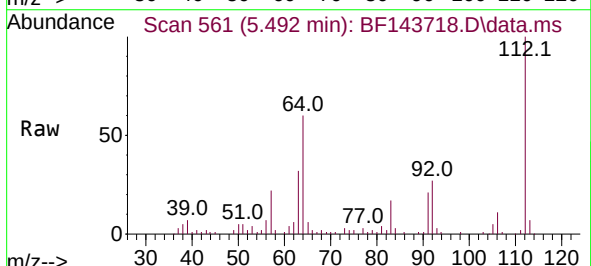
Manual Integrations
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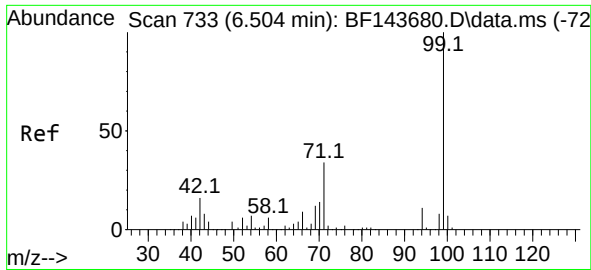
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#5
2-Fluorophenol
Concen: 23.935 ng
RT: 5.492 min Scan# 561
Delta R.T. -0.006 min
Lab File: BF143718.D
Acq: 11 Sep 2025 20:56

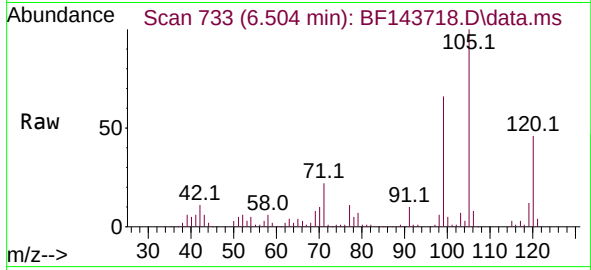
Tgt Ion:112 Resp: 49140
Ion Ratio Lower Upper
112 100
64 60.3 49.0 73.4
63 31.8 24.3 36.5





#7
Phenol-d6
Concen: 23.464 ng
RT: 6.504 min Scan# 733
Delta R.T. -0.000 min
Lab File: BF143718.D
Acq: 11 Sep 2025 20:56

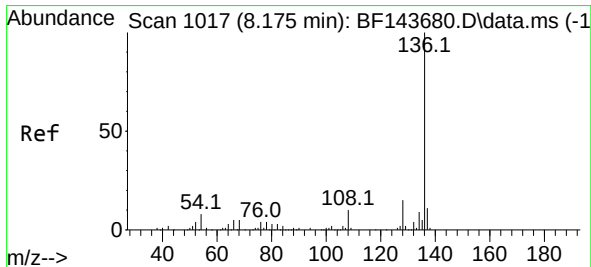
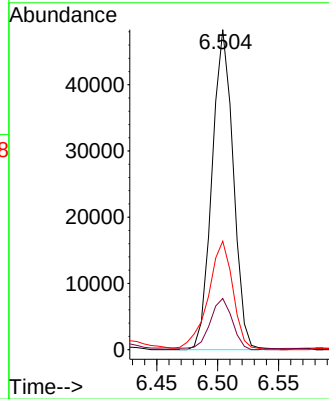
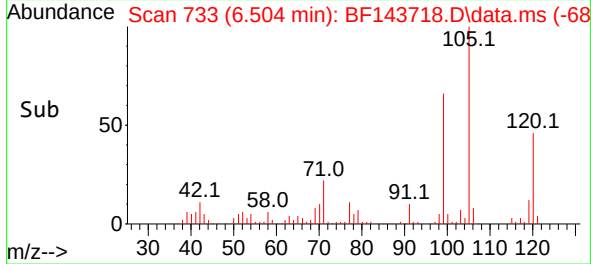
Instrument :
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ClientSampleId :
LAW-25-0139



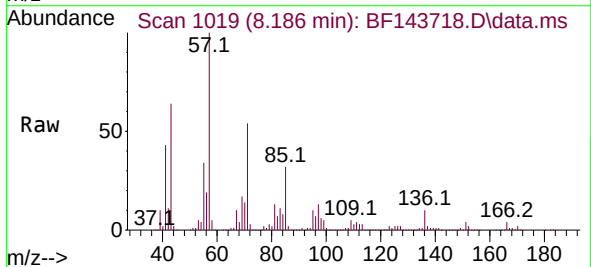
Tgt Ion: 99 Resp: 58655
Ion Ratio Lower Upper
99 100
42 16.0 13.0 19.4
71 33.9 27.4 41.2

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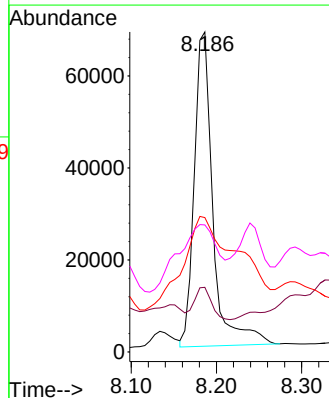
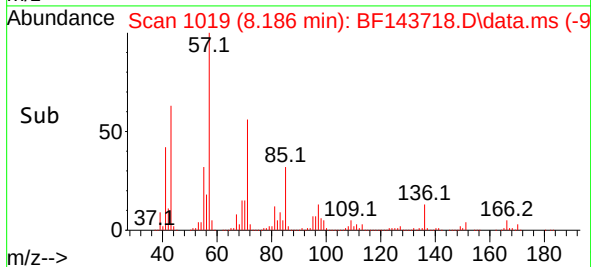
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

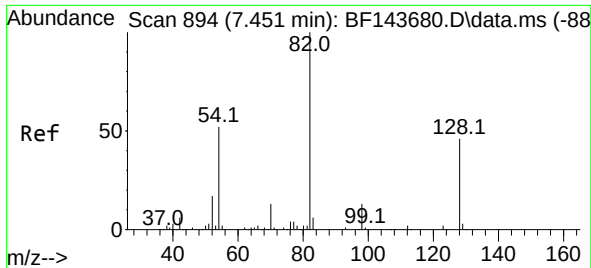


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.186 min Scan# 1019
Delta R.T. 0.012 min
Lab File: BF143718.D
Acq: 11 Sep 2025 20:56



Tgt Ion:136 Resp: 103722
Ion Ratio Lower Upper
136 100
137 20.2 8.7 13.1#
54 42.0 6.2 9.2#
68 39.7 4.2 6.4#





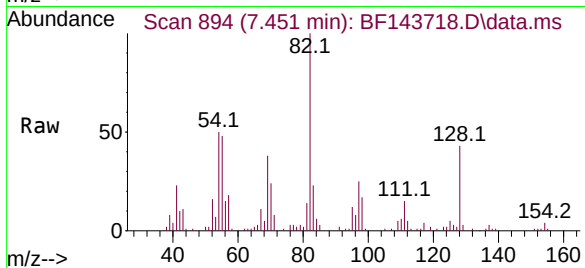
#23
Nitrobenzene-d5
Concen: 27.954 ng
RT: 7.451 min Scan# 894
Delta R.T. -0.000 min
Lab File: BF143718.D
Acq: 11 Sep 2025 20:56

Instrument :

BNA_F

ClientSampleId :

LAW-25-0139

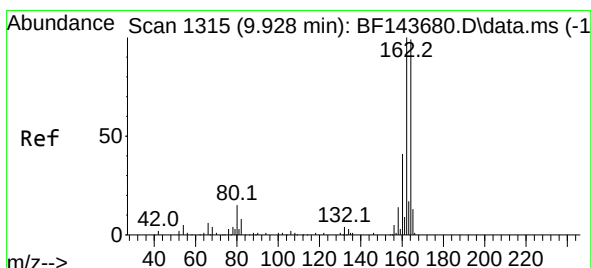
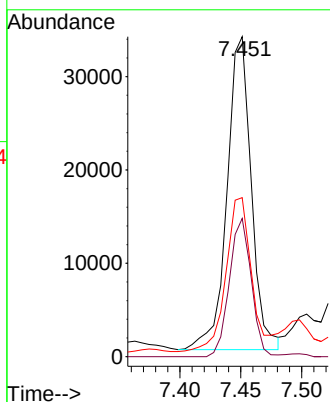
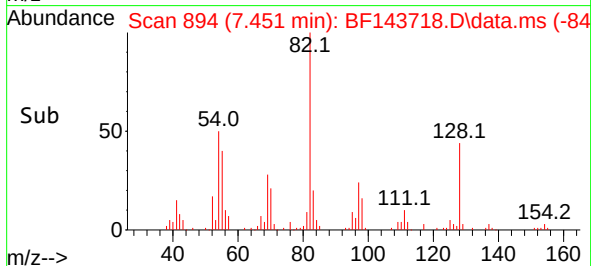


Tgt Ion: 82 Resp: 46615
Ion Ratio Lower Upper
82 100
128 43.2 37.0 55.4
54 49.7 41.8 62.8

Manual Integrations

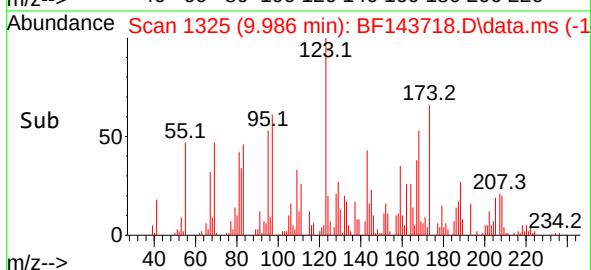
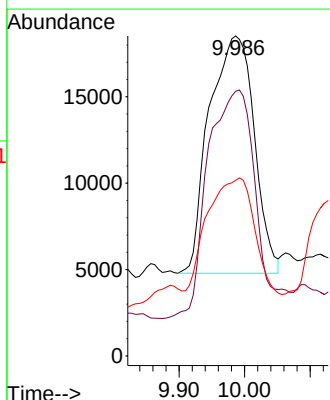
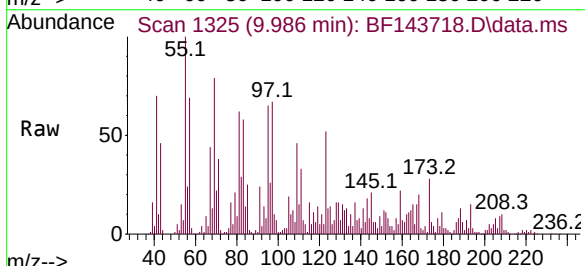
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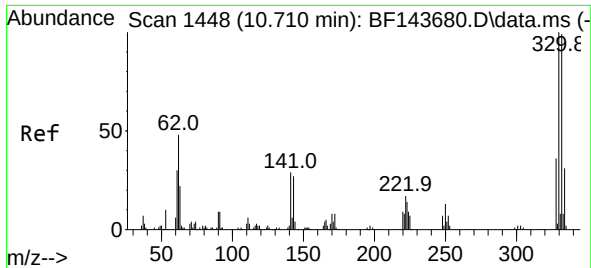
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.986 min Scan# 1325
Delta R.T. 0.059 min
Lab File: BF143718.D
Acq: 11 Sep 2025 20:56

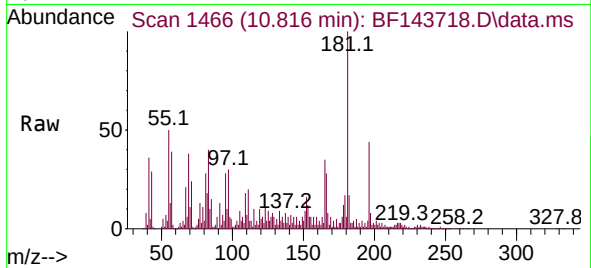
Tgt Ion:164 Resp: 65366
Ion Ratio Lower Upper
164 100
162 82.7 80.6 121.0
160 54.9 33.0 49.4





#42
2,4,6-Tribromophenol
Concen: 4.536 ng
RT: 10.816 min Scan# 1448
Delta R.T. 0.106 min
Lab File: BF143718.D
Acq: 11 Sep 2025 20:56

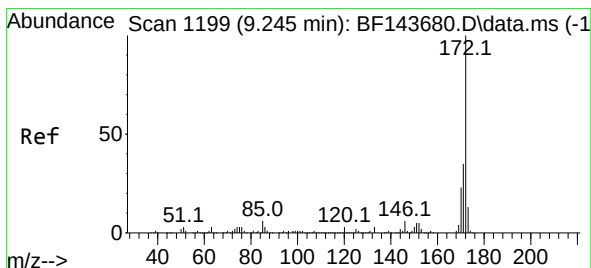
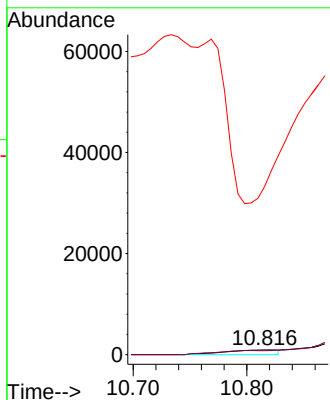
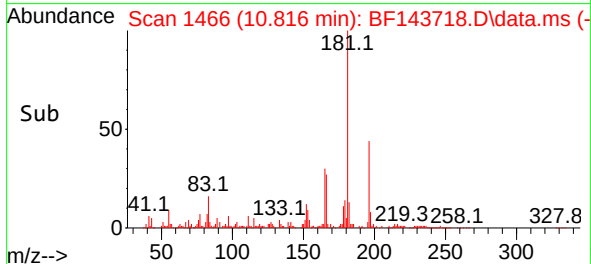
Instrument :
BNA_F
ClientSampleId :
LAW-25-0139



Tgt Ion: 330 Resp: 2988
Ion Ratio Lower Upper
330 100
332 80.0 79.2 118.8
141 0.0 22.2 33.4

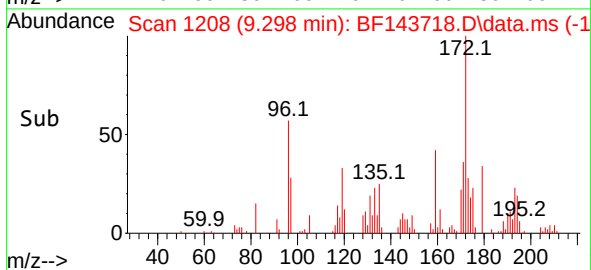
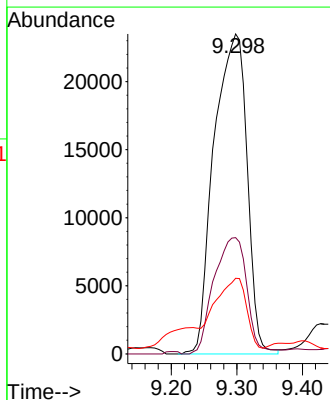
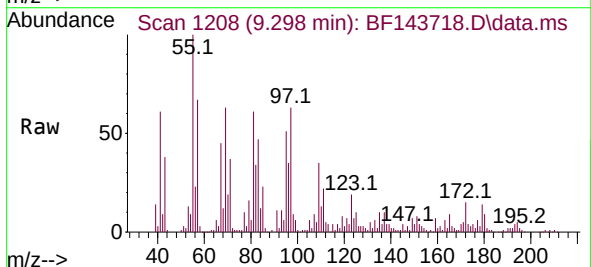
Manual Integrations
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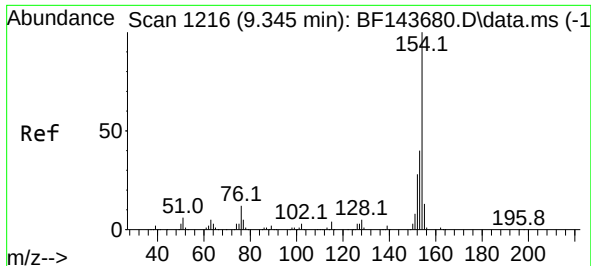
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#45
2-Fluorobiphenyl
Concen: 18.975 ng
RT: 9.298 min Scan# 1208
Delta R.T. 0.053 min
Lab File: BF143718.D
Acq: 11 Sep 2025 20:56

Tgt Ion: 172 Resp: 82107
Ion Ratio Lower Upper
172 100
171 36.3 27.9 41.9
170 23.6 18.6 27.8





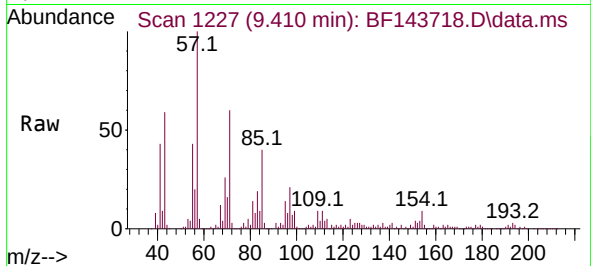
#46
1,1'-Biphenyl
Concen: 40.647 ng
RT: 9.410 min Scan# 1216
Delta R.T. 0.064 min
Lab File: BF143718.D
Acq: 11 Sep 2025 20:56

Instrument :

BNA_F

ClientSampleId :

LAW-25-0139

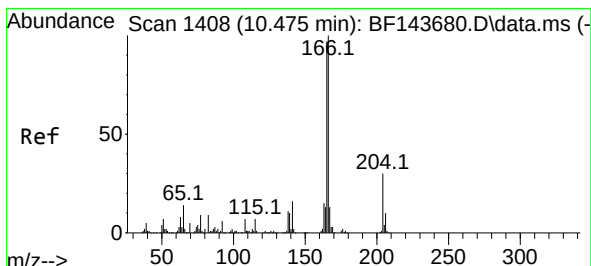
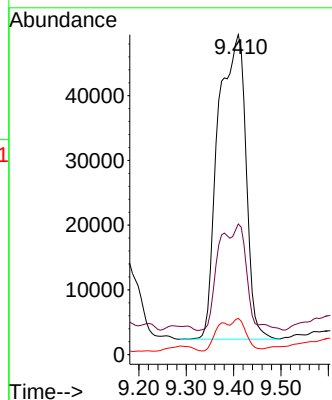
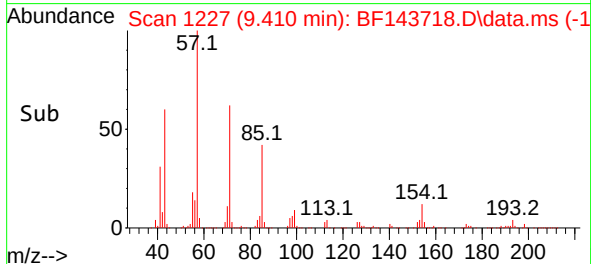


Tgt Ion:154 Resp: 191278
Ion Ratio Lower Upper
154 100
153 40.8 20.2 60.2
76 11.3 0.0 31.6

Manual Integrations

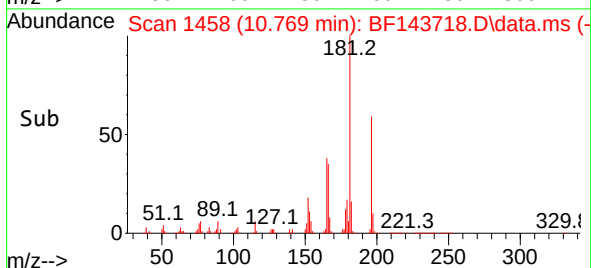
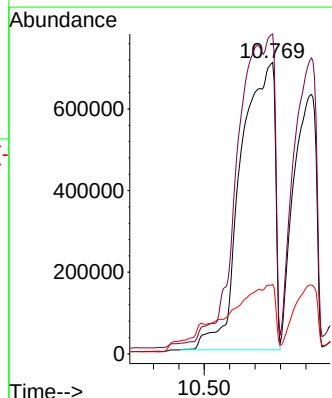
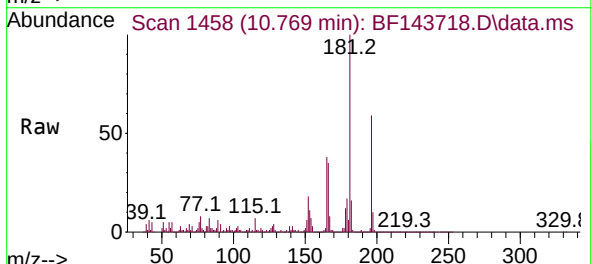
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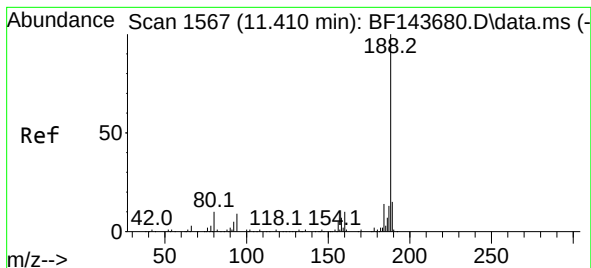
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#58
Fluorene
Concen: 1590.135 ng
RT: 10.769 min Scan# 1458
Delta R.T. 0.294 min
Lab File: BF143718.D
Acq: 11 Sep 2025 20:56

Tgt Ion:166 Resp: 6517812
Ion Ratio Lower Upper
166 100
165 109.8 77.5 116.3
167 23.9 10.2 15.2#





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.527 min Scan# 11
Delta R.T. 0.117 min
Lab File: BF143718.D
Acq: 11 Sep 2025 20:56

Instrument :

BNA_F

ClientSampleId :

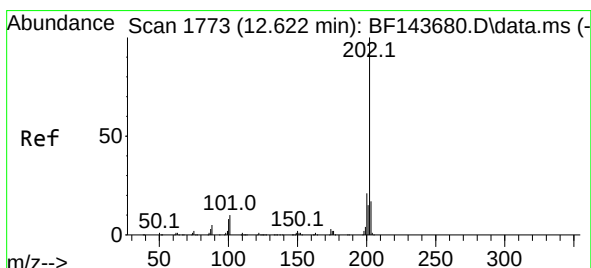
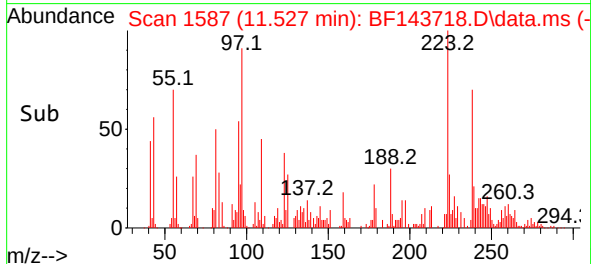
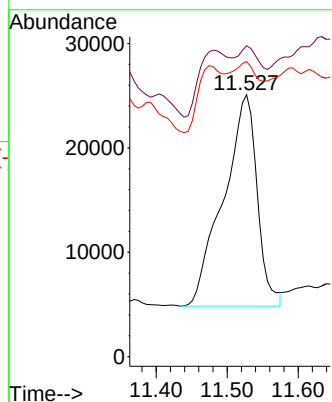
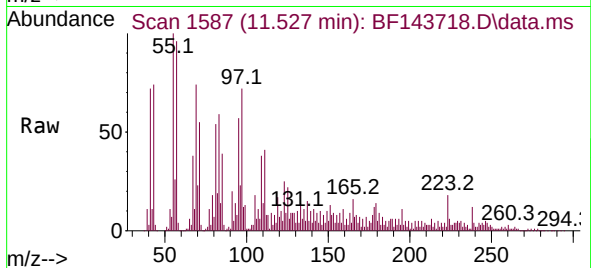
LAW-25-0139

Tgt Ion:188 Resp: 66695
Ion Ratio Lower Upper
188 100
94 118.6 7.4 11.0
80 112.6 7.7 11.5

Manual Integrations

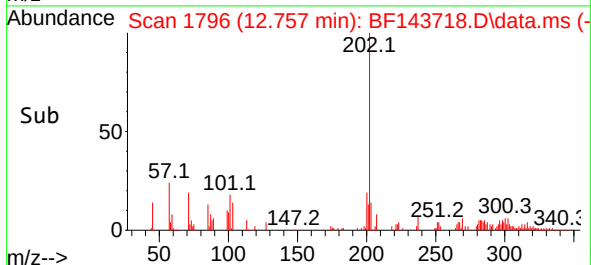
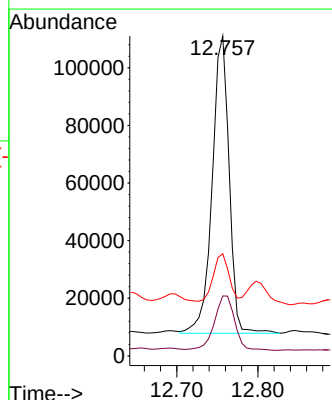
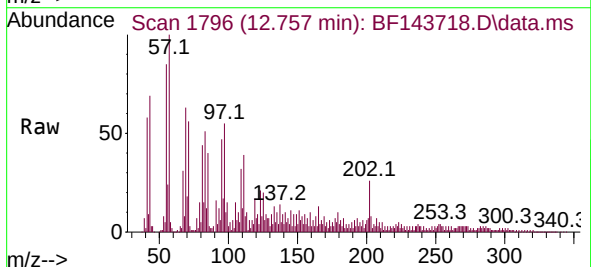
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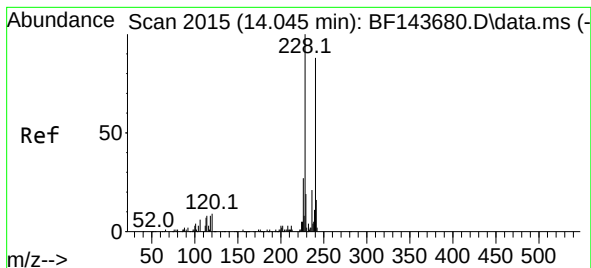
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#75
Fluoranthene
Concen: 44.431 ng
RT: 12.757 min Scan# 1796
Delta R.T. 0.135 min
Lab File: BF143718.D
Acq: 11 Sep 2025 20:56

Tgt Ion:202 Resp: 149888
Ion Ratio Lower Upper
202 100
101 18.7 0.0 30.5
203 31.9 0.0 37.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.115 min Scan# 20

Delta R.T. 0.070 min

Lab File: BF143718.D

Acq: 11 Sep 2025 20:56

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BNA_F

ClientSampleId :

LAW-25-0139

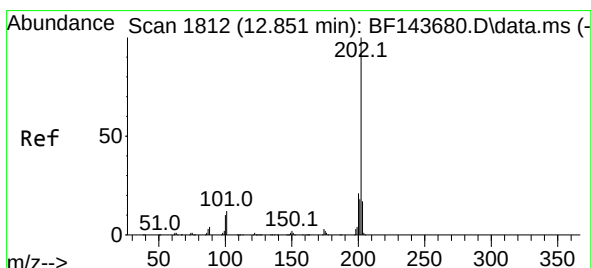
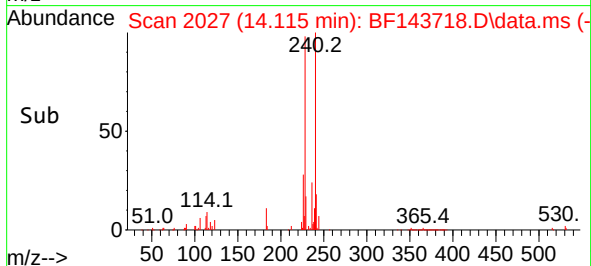
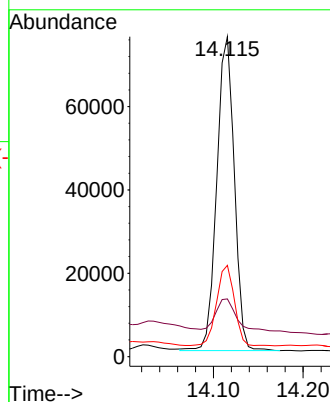
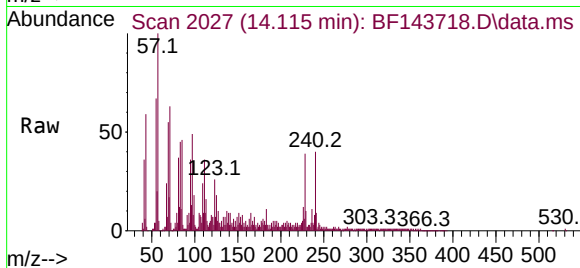
Tgt Ion:240 Resp: 102352
 Ion Ratio Lower Upper
 240 100
 120 18.0 8.4 12.6
 236 28.5 18.6 28.0

Manual Integrations

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#78

Pyrene

Concen: 25.829 ng

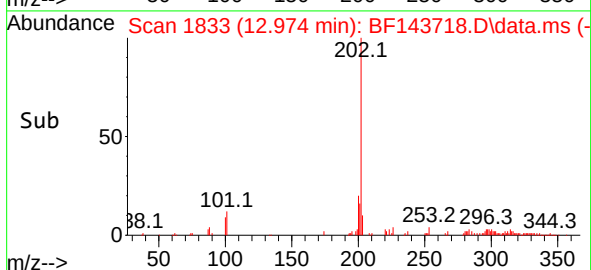
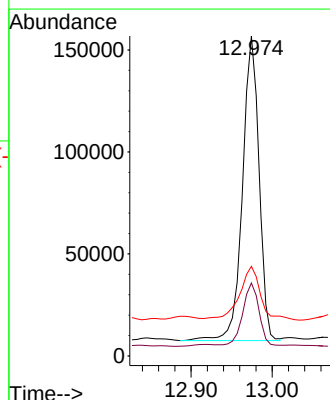
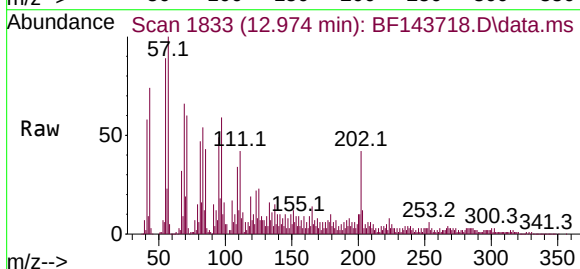
RT: 12.974 min Scan# 1833

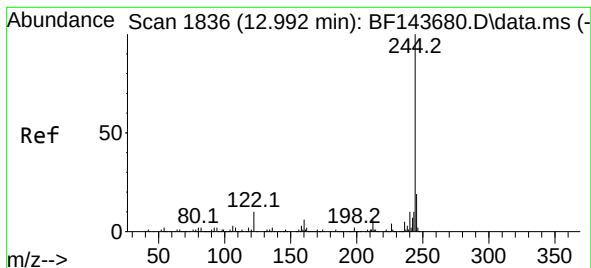
Delta R.T. 0.123 min

Lab File: BF143718.D

Acq: 11 Sep 2025 20:56

Tgt Ion:202 Resp: 211380
 Ion Ratio Lower Upper
 202 100
 200 22.8 16.6 24.8
 203 28.0 13.5 20.3





#79

Terphenyl-d14

Concen: 10.913 ng

RT: 13.086 min Scan# 1836

Delta R.T. 0.094 min

Lab File: BF143718.D

Acq: 11 Sep 2025 20:56

Instrument :

BNA_F

ClientSampleId :

LAW-25-0139

Tgt Ion:244 Resp: 6893

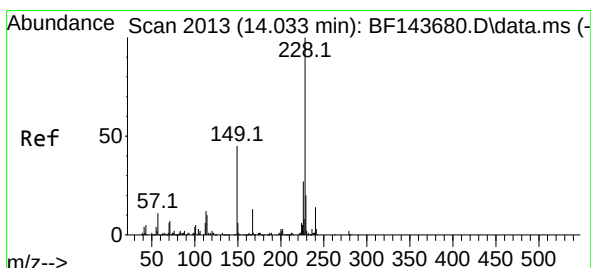
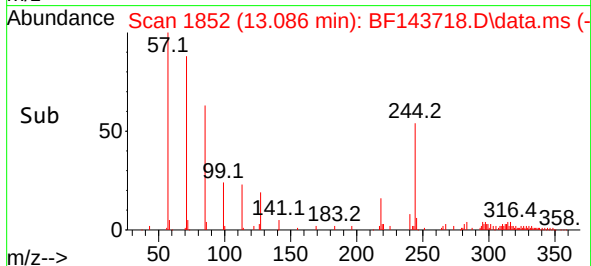
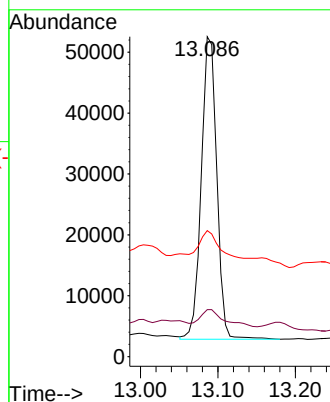
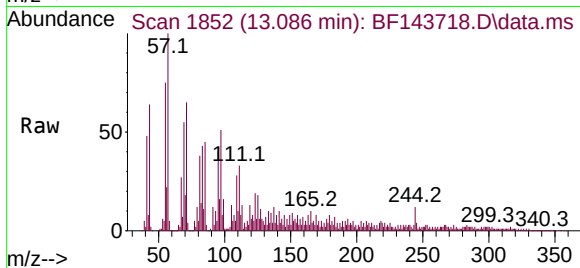
Ion	Ratio	Lower	Upper
244	100		
212	14.7	5.0	7.6
122	39.4	7.9	11.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/12/2025

Supervised By :Jagrut Upadhyay 09/12/2025



#81

Benzo(a)anthracene

Concen: 31.527 ng

RT: 14.104 min Scan# 2025

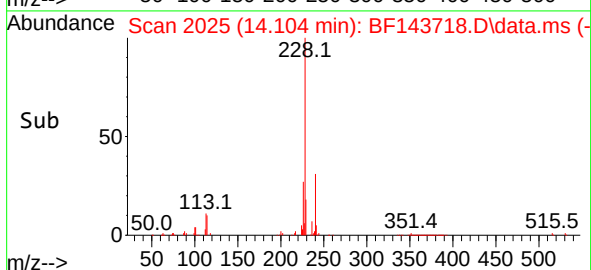
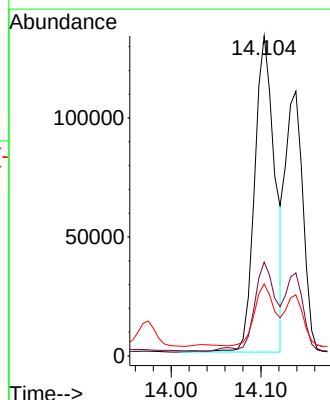
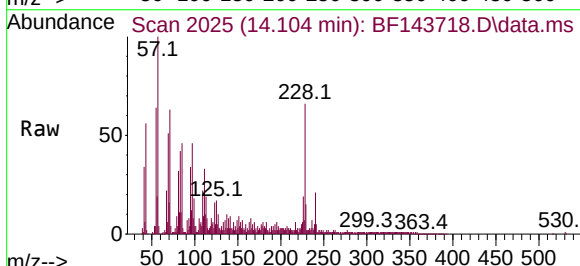
Delta R.T. 0.070 min

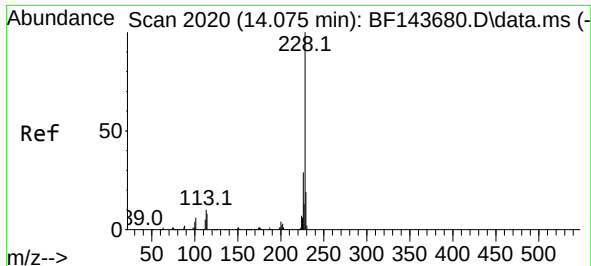
Lab File: BF143718.D

Acq: 11 Sep 2025 20:56

Tgt Ion:228 Resp: 207606

Ion	Ratio	Lower	Upper
228	100		
226	29.3	21.6	32.4
229	22.5	15.7	23.5





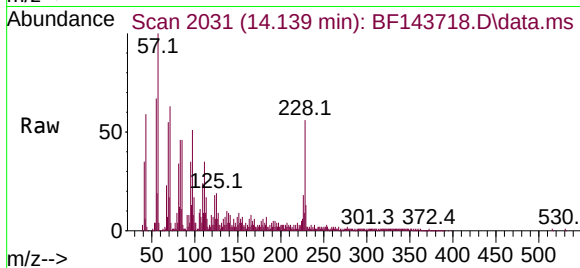
#83
Chrysene
Concen: 24.906 ng m
RT: 14.139 min Scan# 20
Delta R.T. 0.064 min
Lab File: BF143718.D
Acq: 11 Sep 2025 20:56

Instrument :

BNA_F

ClientSampleId :

LAW-25-0139

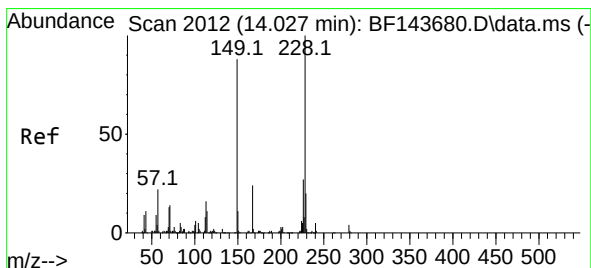
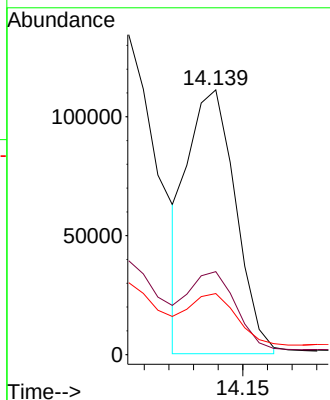
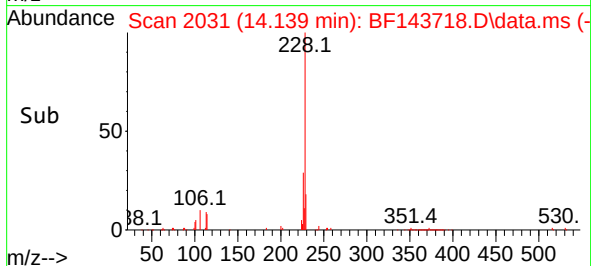


Tgt Ion:228 Resp: 150208
Ion Ratio Lower Upper
228 100
226 31.3 22.7 34.1
229 23.1 15.1 22.7

Manual Integrations

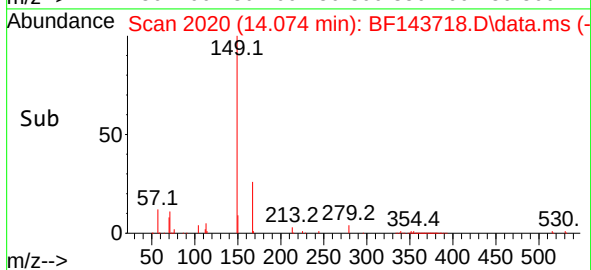
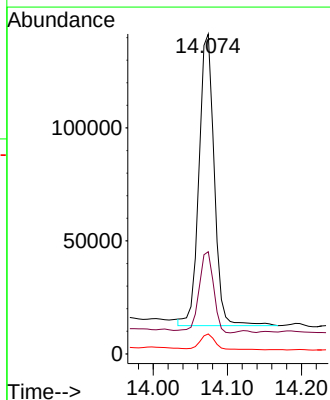
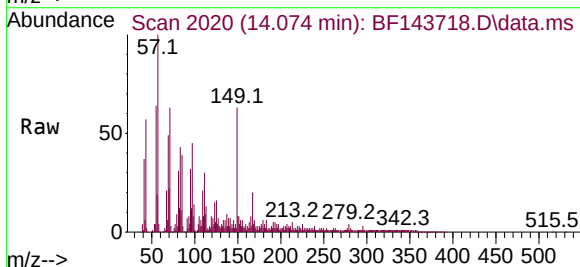
APPROVED

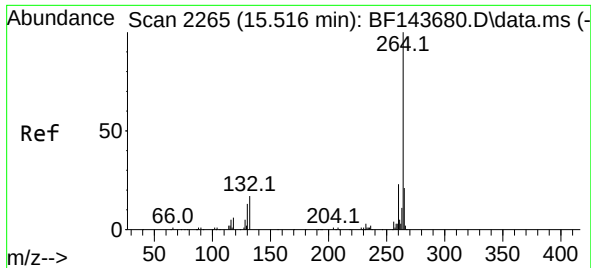
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#84
Bis(2-ethylhexyl)phthalate
Concen: 50.605 ng
RT: 14.074 min Scan# 2020
Delta R.T. 0.047 min
Lab File: BF143718.D
Acq: 11 Sep 2025 20:56

Tgt Ion:149 Resp: 185144
Ion Ratio Lower Upper
149 100
167 31.9 22.2 33.2
279 6.2 3.5 5.3





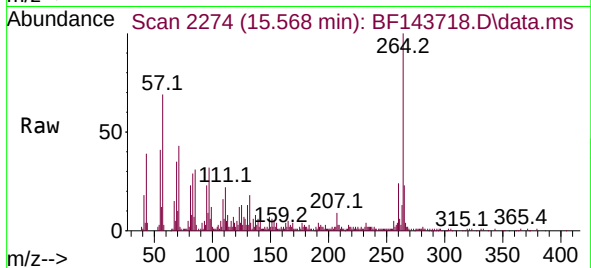
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.568 min Scan# 21
Delta R.T. 0.053 min
Lab File: BF143718.D
Acq: 11 Sep 2025 20:56

Instrument :

BNA_F

ClientSampleId :

LAW-25-0139

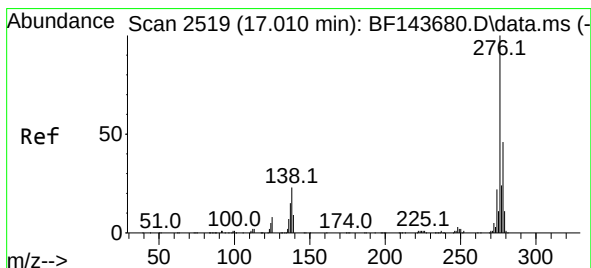
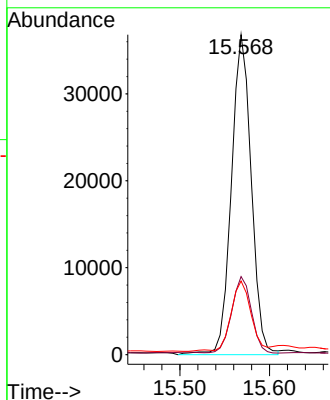
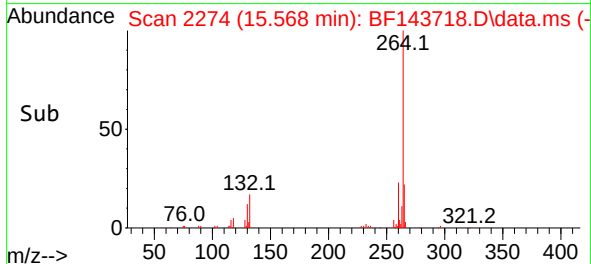


Tgt Ion:264 Resp: 56940
Ion Ratio Lower Upper
264 100
260 24.4 18.4 27.6
265 23.0 17.1 25.7

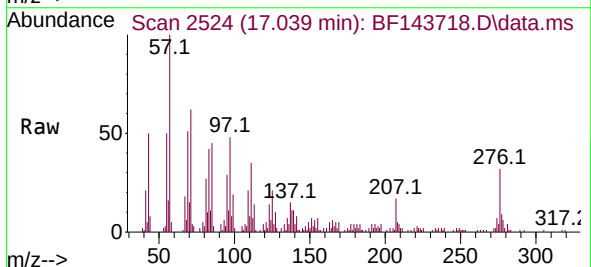
Manual Integrations

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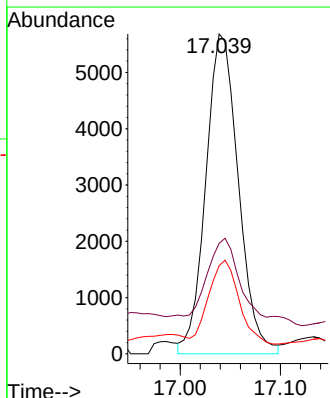
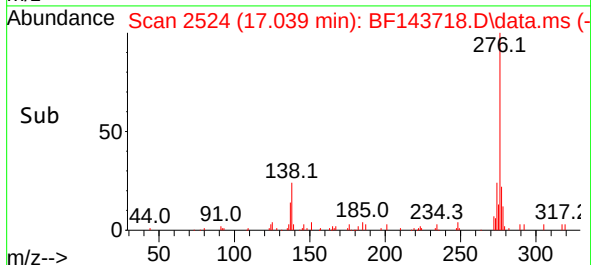
Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025

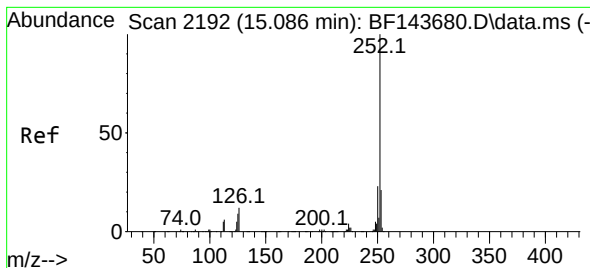


#87
Indeno(1,2,3-cd)pyrene
Concen: 3.304 ng
RT: 17.039 min Scan# 2524
Delta R.T. 0.029 min
Lab File: BF143718.D
Acq: 11 Sep 2025 20:56



Tgt Ion:276 Resp: 12840
Ion Ratio Lower Upper
276 100
138 29.9 19.7 29.5#
277 24.3 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 35.197 ng m

RT: 15.139 min Scan# 21

Delta R.T. 0.053 min

Lab File: BF143718.D

Acq: 11 Sep 2025 20:56

Instrument :

BNA_F

ClientSampleId :

LAW-25-0139

Tgt Ion:252 Resp: 119302

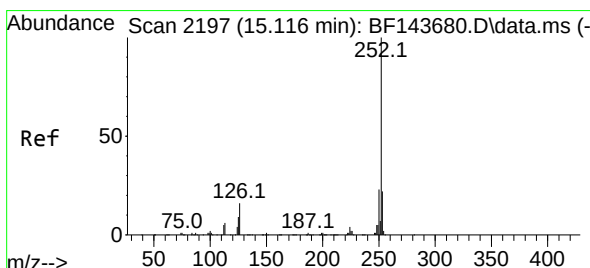
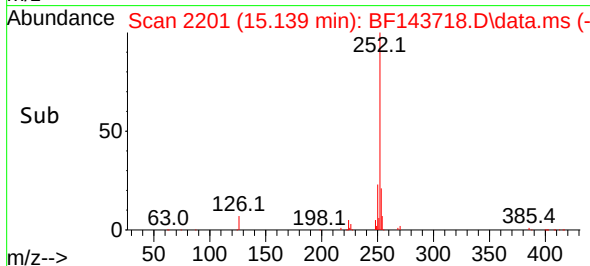
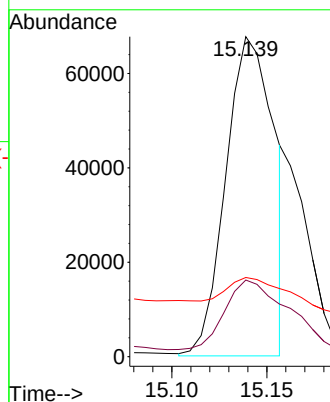
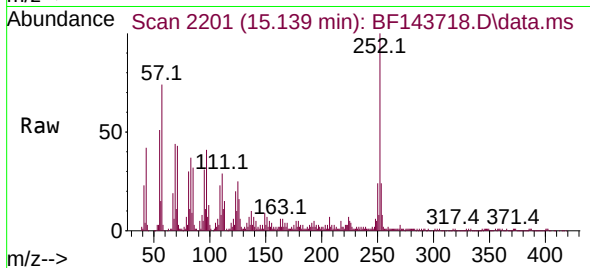
Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.0	25.4
125	24.7	7.4	11.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/12/2025

Supervised By :Jagrut Upadhyay 09/12/2025



#89

Benzo(k)fluoranthene

Concen: 12.387 ng m

RT: 15.157 min Scan# 2204

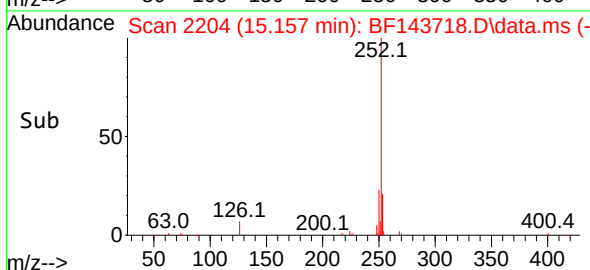
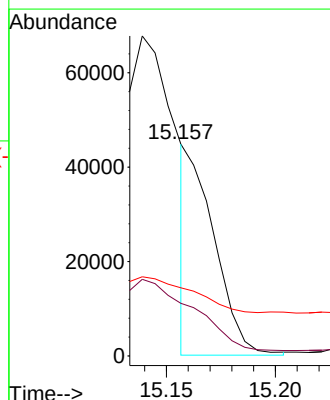
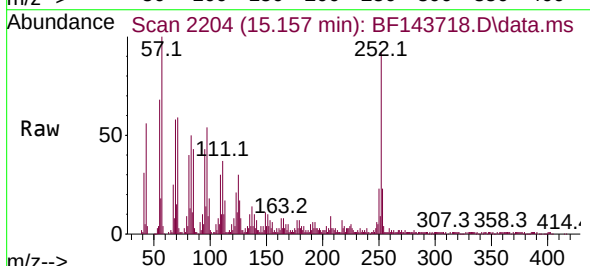
Delta R.T. 0.041 min

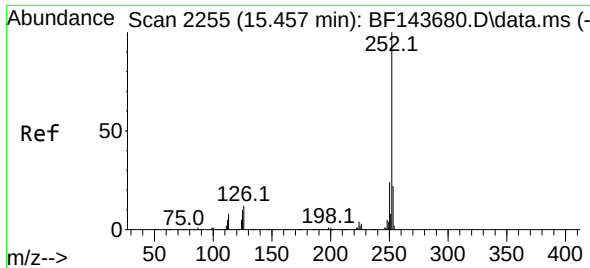
Lab File: BF143718.D

Acq: 11 Sep 2025 20:56

Tgt Ion:252 Resp: 37892

Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.3	25.9
125	32.1	7.3	10.9





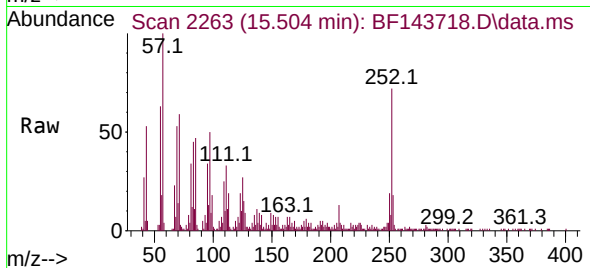
#90
Benzo(a)pyrene
Concen: 9.892 ng
RT: 15.504 min Scan# 21
Delta R.T. 0.047 min
Lab File: BF143718.D
Acq: 11 Sep 2025 20:56

Instrument :

BNA_F

ClientSampleId :

LAW-25-0139

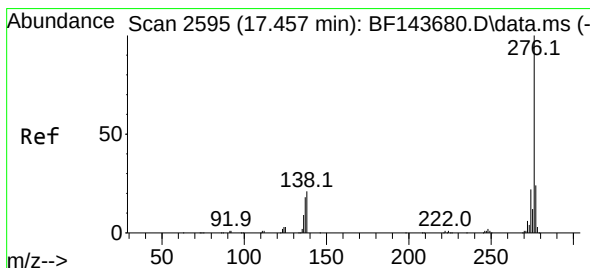
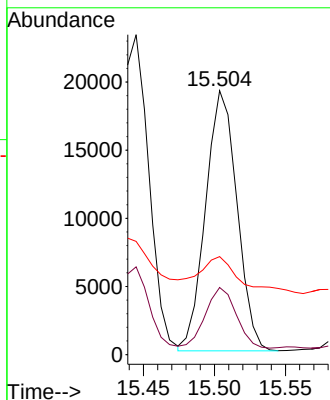
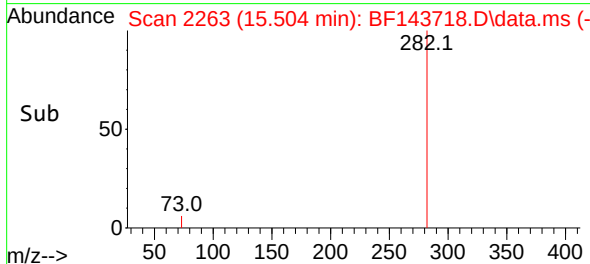


Tgt Ion:252 Resp: 29456
Ion Ratio Lower Upper
252 100
253 25.5 17.4 26.0
125 37.2 8.2 12.4

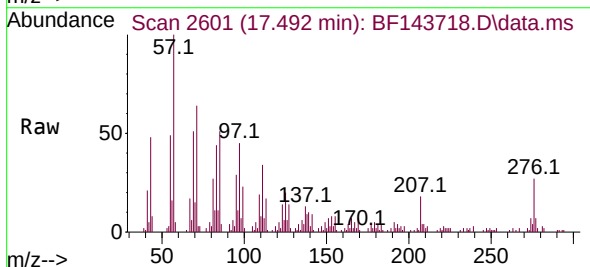
Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/12/2025
Supervised By :Jagrut Upadhyay 09/12/2025



#92
Benzo(g,h,i)perylene
Concen: 3.446 ng
RT: 17.492 min Scan# 2601
Delta R.T. 0.035 min
Lab File: BF143718.D
Acq: 11 Sep 2025 20:56



Tgt Ion:276 Resp: 10391
Ion Ratio Lower Upper
276 100
277 27.3 19.2 28.8
138 35.6 17.0 25.4

