

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091225\
 Data File : BF143733.D
 Acq On : 12 Sep 2025 15:12
 Operator : RC/JU
 Sample : Q3082-05
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-31

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 09/15/2025
 Supervised By :Jagrut Upadhyay 09/15/2025

Quant Time: Sep 12 15:33:54 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	29872	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	104278	20.000	ng	0.00
39) Acenaphthene-d10	9.927	164	49594	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	78016	20.000	ng	0.00
76) Chrysene-d12	14.062	240	81668	20.000	ng	0.02
86) Perylene-d12	15.545	264	92226	20.000	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	165498	94.524	ng	0.01
7) Phenol-d6	6.510	99	201683	94.605	ng	0.00
23) Nitrobenzene-d5	7.451	82	122872	73.292	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	47871	95.781	ng	0.00
45) 2-Fluorobiphenyl	9.251	172	235004	71.581	ng	0.00
79) Terphenyl-d14	13.004	244	228303	45.302	ng	0.01
Target Compounds						Qvalue
71) Phenanthrene	11.439	178	73830	17.176	ng	99
72) Anthracene	11.492	178	18215	4.214	ng	96
75) Fluoranthene	12.633	202	112239	28.443	ng	99
78) Pyrene	12.863	202	112436	17.219	ng	98
81) Benzo(a)anthracene	14.051	228	70418	13.403	ng	95
83) Chrysene	14.086	228	55375	11.508	ng	96
87) Indeno(1,2,3-cd)pyrene	17.027	276	26941	4.280	ng	# 91
88) Benzo(b)fluoranthene	15.109	252	71297m	12.987	ng	
89) Benzo(k)fluoranthene	15.121	252	27976m	5.646	ng	
90) Benzo(a)pyrene	15.474	252	57214	11.862	ng	96
92) Benzo(g,h,i)perylene	17.480	276	25808	5.284	ng	95

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

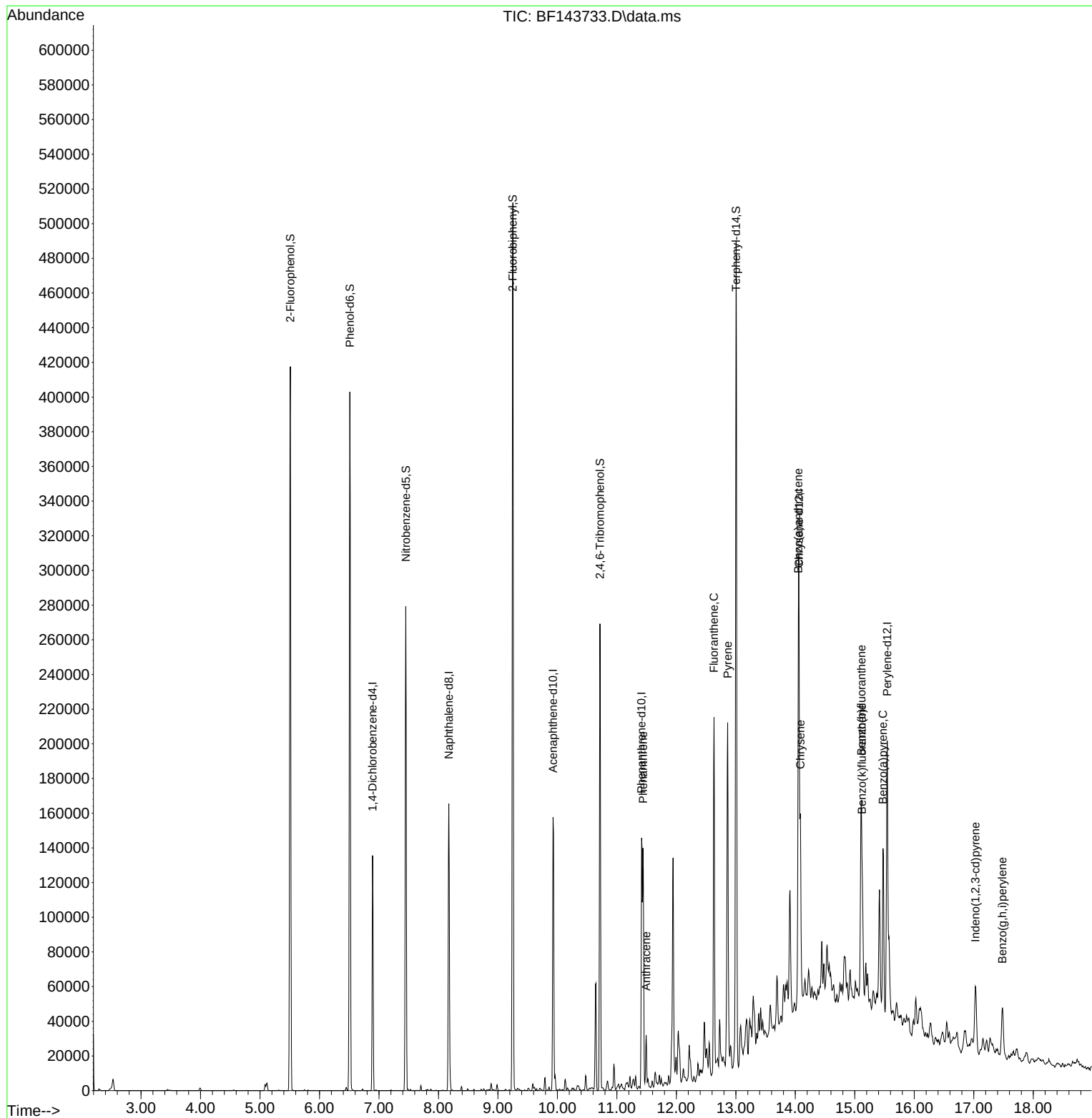
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091225\
Data File : BF143733.D
Acq On : 12 Sep 2025 15:12
Operator : RC/JU
Sample : Q3082-05
Misc :
ALS Vial : 11 Sample Multiplier: 1

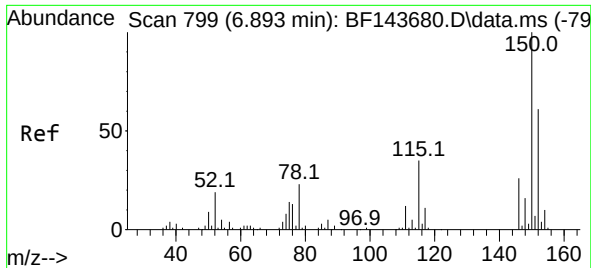
Instrument :
BNA_F
ClientSampleId :
WC-31

Quant Time: Sep 12 15:33:54 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

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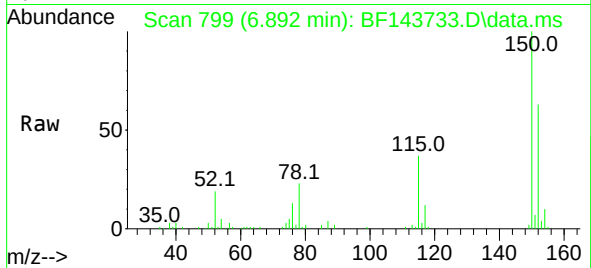
Reviewed By :Rahul Chavli 09/15/2025
Supervised By :Jagrut Upadhyay 09/15/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 799
Delta R.T. -0.001 min
Lab File: BF143733.D
Acq: 12 Sep 2025 15:12

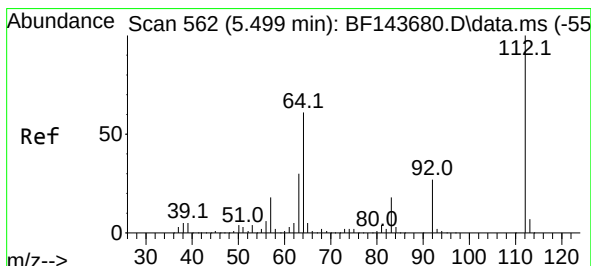
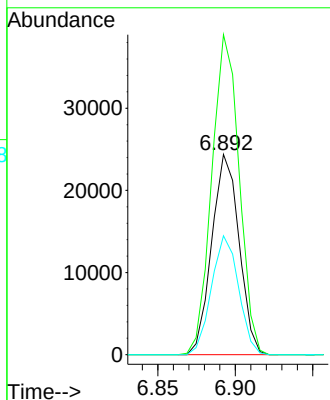
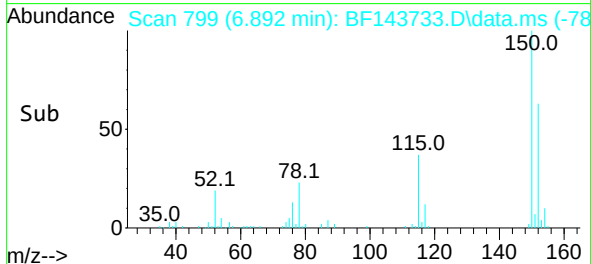
Instrument :
BNA_F
ClientSampleId :
WC-31



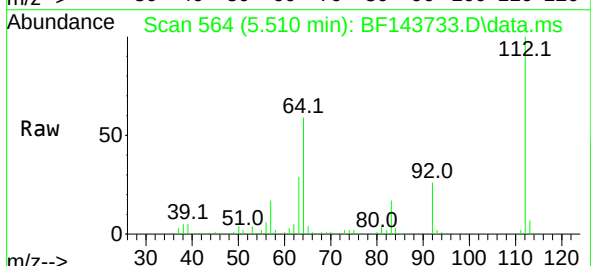
Tgt Ion:152 Resp: 29872
Ion Ratio Lower Upper
152 100
150 159.8 130.7 196.1
115 59.3 45.9 68.9

Manual Integrations
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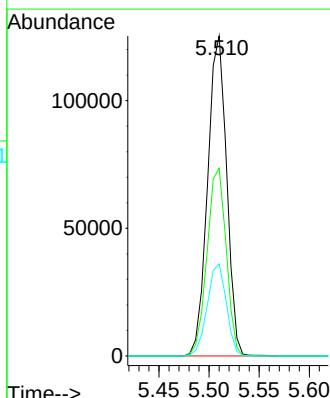
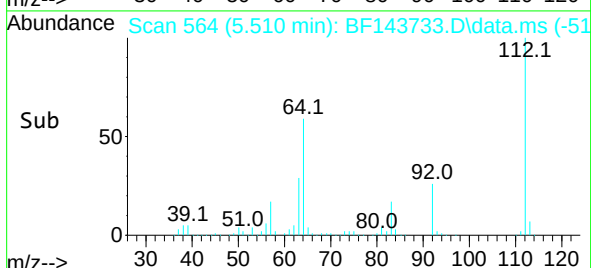
Reviewed By :Rahul Chavli 09/15/2025
Supervised By :Jagrut Upadhyay 09/15/2025

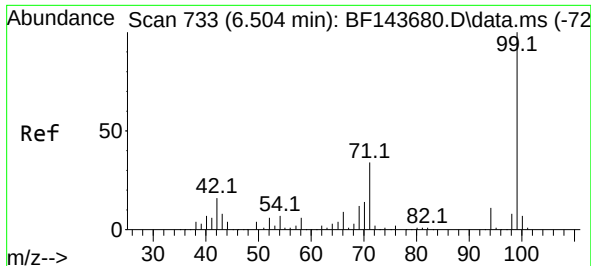


#5
2-Fluorophenol
Concen: 94.524 ng
RT: 5.510 min Scan# 564
Delta R.T. 0.011 min
Lab File: BF143733.D
Acq: 12 Sep 2025 15:12



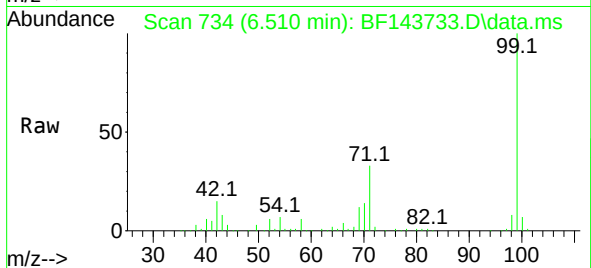
Tgt Ion:112 Resp: 165498
Ion Ratio Lower Upper
112 100
64 58.7 49.0 73.4
63 28.8 24.3 36.5





#7
Phenol-d6
Concen: 94.605 ng
RT: 6.510 min Scan# 71
Delta R.T. 0.006 min
Lab File: BF143733.D
Acq: 12 Sep 2025 15:12

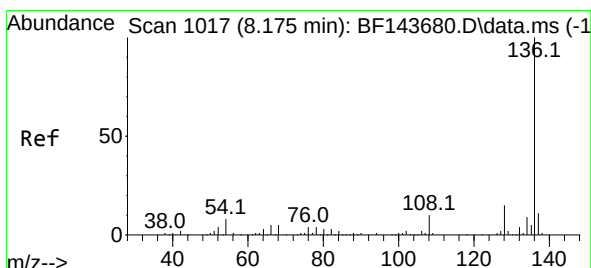
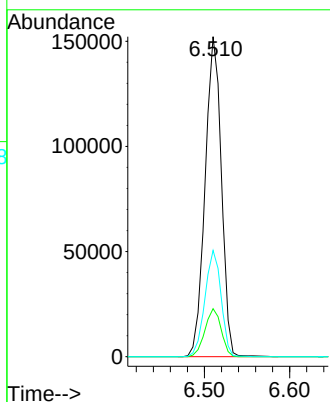
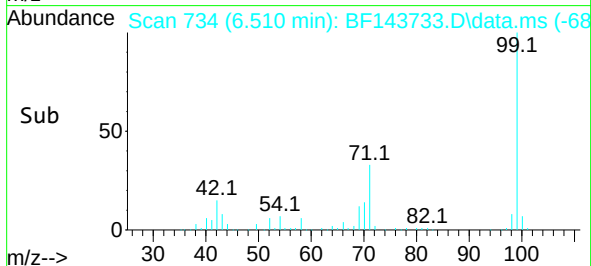
Instrument :
BNA_F
ClientSampleId :
WC-31



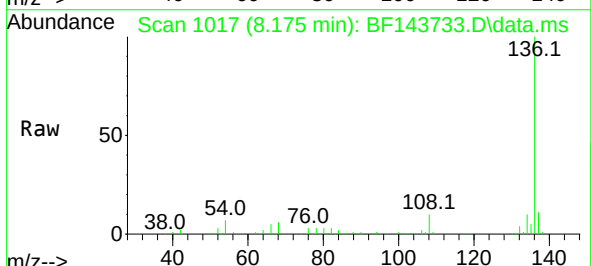
Tgt Ion: 99 Resp: 20168
Ion Ratio Lower Upper
99 100
42 15.0 13.0 19.4
71 33.2 27.4 41.2

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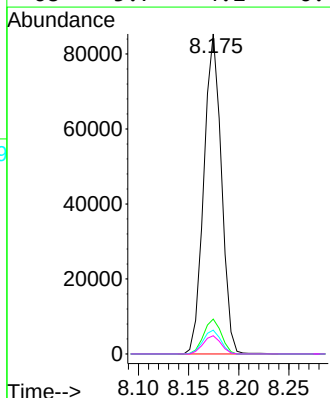
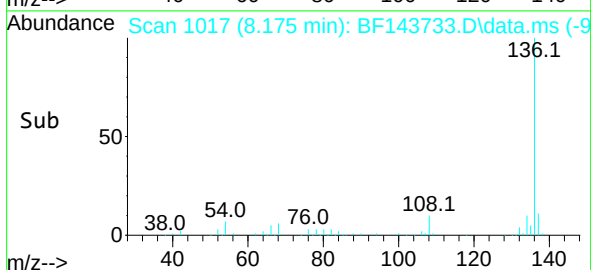
Reviewed By :Rahul Chavli 09/15/2025
Supervised By :Jagrut Upadhyay 09/15/2025

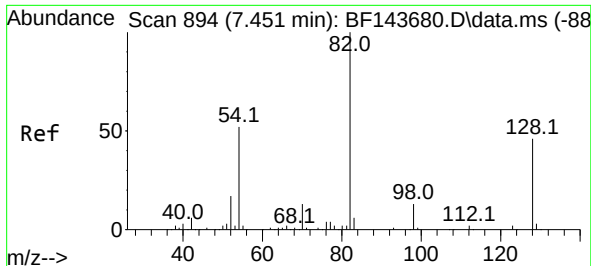


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1017
Delta R.T. -0.000 min
Lab File: BF143733.D
Acq: 12 Sep 2025 15:12



Tgt Ion:136 Resp: 104278
Ion Ratio Lower Upper
136 100
137 10.9 8.7 13.1
54 7.4 6.2 9.2
68 5.7 4.2 6.4





#23

Nitrobenzene-d5

Concen: 73.292 ng

RT: 7.451 min Scan# 894

Delta R.T. -0.000 min

Lab File: BF143733.D

Acq: 12 Sep 2025 15:12

Instrument :

BNA_F

ClientSampleId :

WC-31

Tgt Ion: 82 Resp: 122872

Ion Ratio Lower Upper

82 100

128 47.8 37.0 55.4

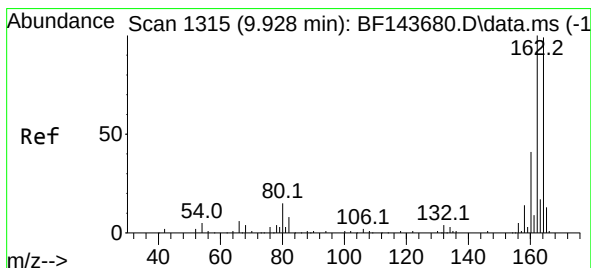
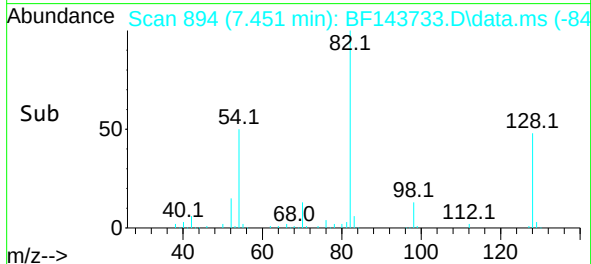
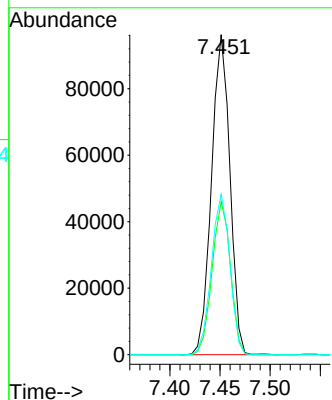
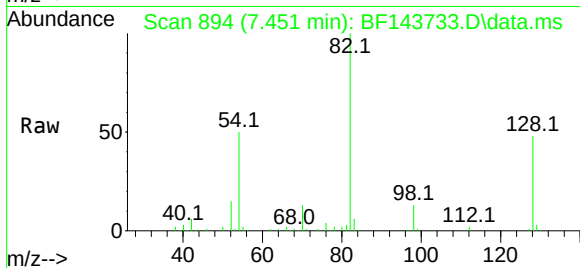
54 50.2 41.8 62.8

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.927 min Scan# 1315

Delta R.T. -0.000 min

Lab File: BF143733.D

Acq: 12 Sep 2025 15:12

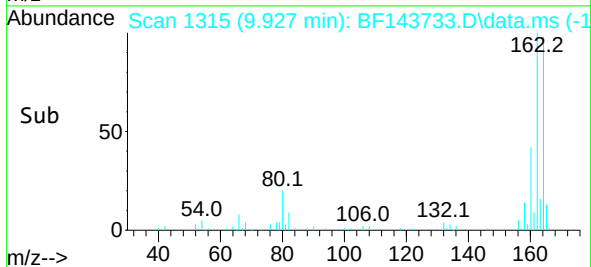
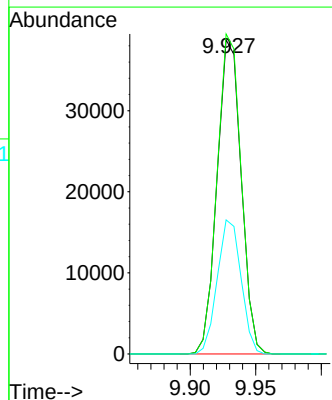
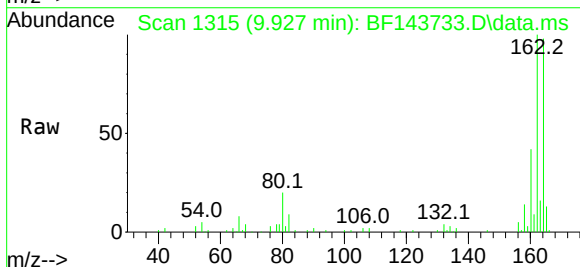
Tgt Ion:164 Resp: 49594

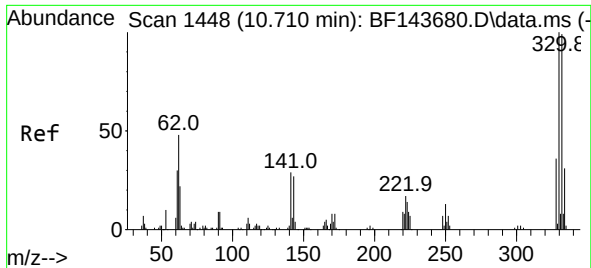
Ion Ratio Lower Upper

164 100

162 101.9 80.6 121.0

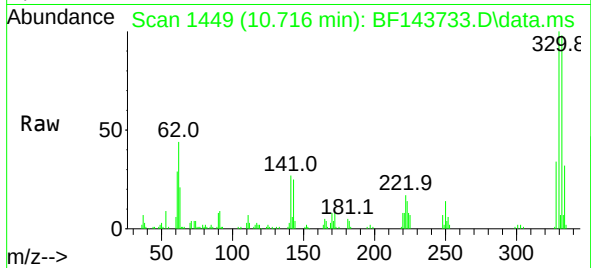
160 42.7 33.0 49.4





#42
2,4,6-Tribromophenol
Concen: 95.781 ng
RT: 10.716 min Scan# 1448
Delta R.T. 0.006 min
Lab File: BF143733.D
Acq: 12 Sep 2025 15:12

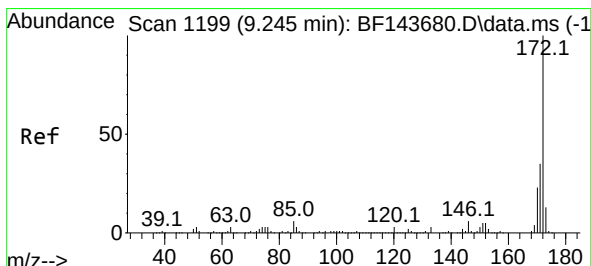
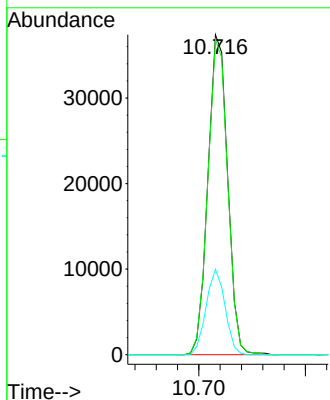
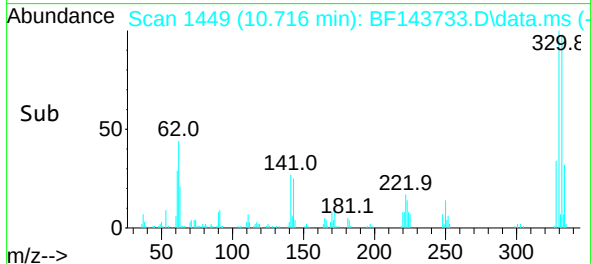
Instrument :
BNA_F
ClientSampleId :
WC-31



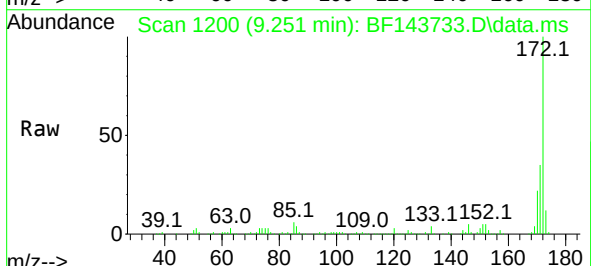
Tgt Ion: 330 Resp: 4787
Ion Ratio Lower Upper
330 100
332 98.8 79.2 118.8
141 25.7 22.2 33.4

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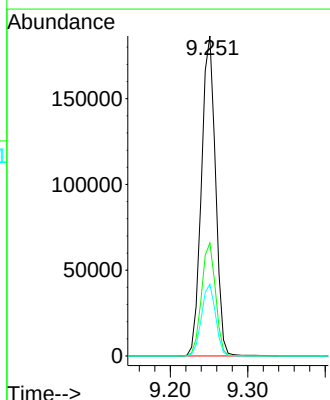
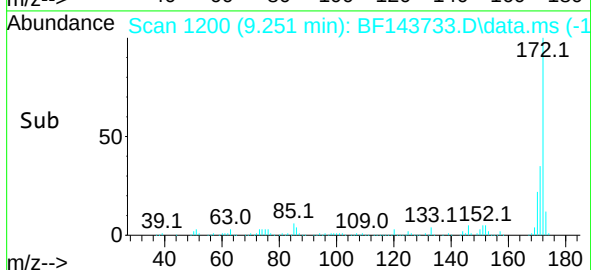
Reviewed By :Rahul Chavli 09/15/2025
Supervised By :Jagrut Upadhyay 09/15/2025

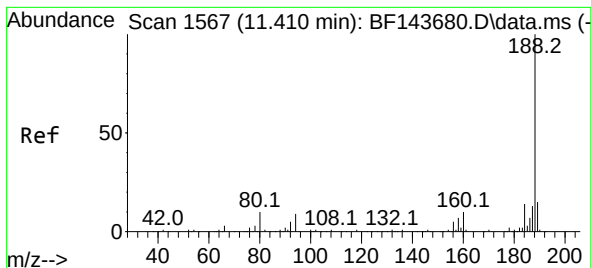


#45
2-Fluorobiphenyl
Concen: 71.581 ng
RT: 9.251 min Scan# 1200
Delta R.T. 0.006 min
Lab File: BF143733.D
Acq: 12 Sep 2025 15:12



Tgt Ion: 172 Resp: 235004
Ion Ratio Lower Upper
172 100
171 35.4 27.9 41.9
170 22.5 18.6 27.8





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.416 min Scan# 1567

Delta R.T. 0.006 min

Lab File: BF143733.D

Acq: 12 Sep 2025 15:12

Instrument :

BNA_F

ClientSampleId :

WC-31

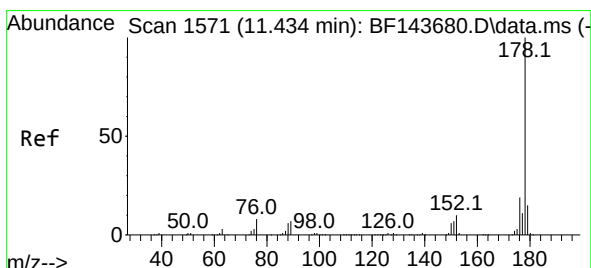
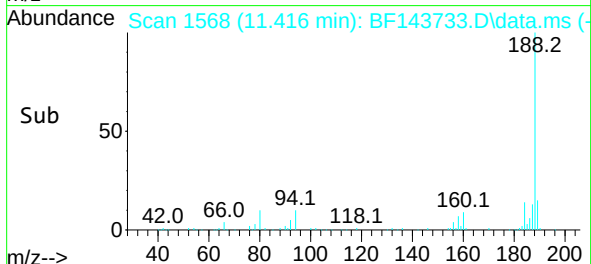
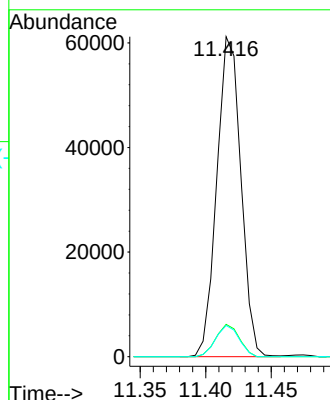
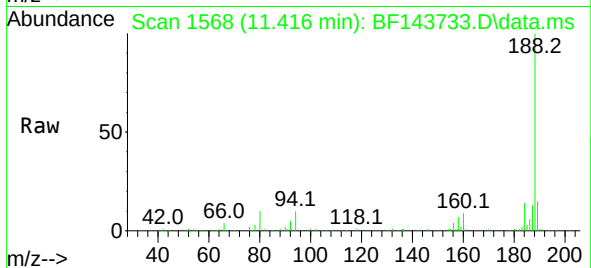
Tgt Ion:188 Resp: 78010
 Ion Ratio Lower Upper
 188 100
 94 10.1 7.4 11.0
 80 9.8 7.7 11.5

Manual Integrations

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#71

Phenanthrene

Concen: 17.176 ng

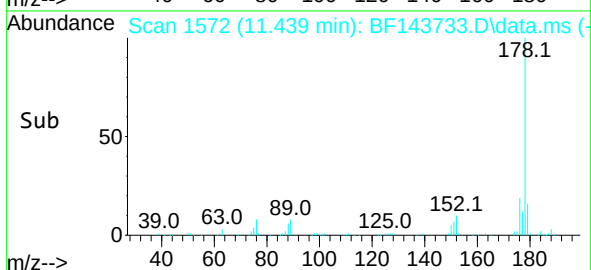
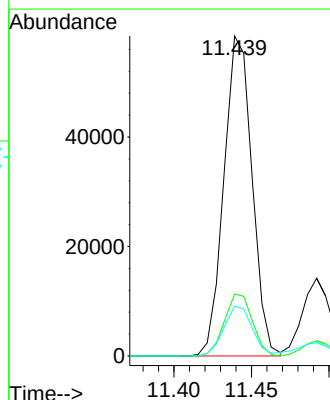
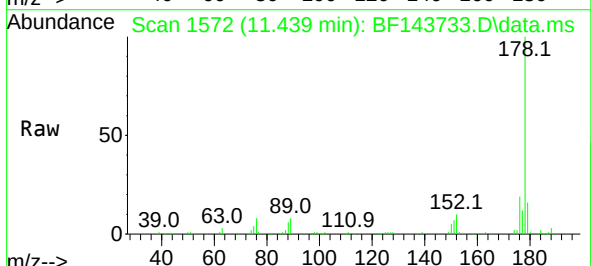
RT: 11.439 min Scan# 1572

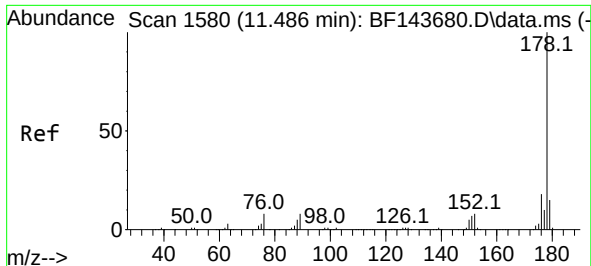
Delta R.T. 0.006 min

Lab File: BF143733.D

Acq: 12 Sep 2025 15:12

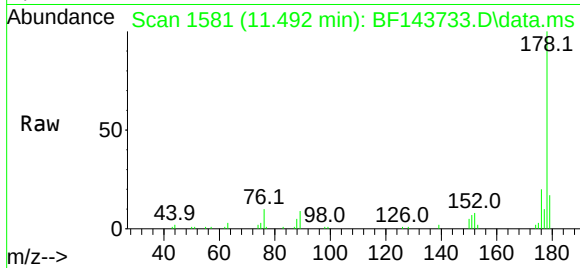
Tgt Ion:178 Resp: 73830
 Ion Ratio Lower Upper
 178 100
 176 19.3 14.8 22.2
 179 15.6 12.2 18.2





#72
 Anthracene
 Concen: 4.214 ng
 RT: 11.492 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: BF143733.D
 Acq: 12 Sep 2025 15:12

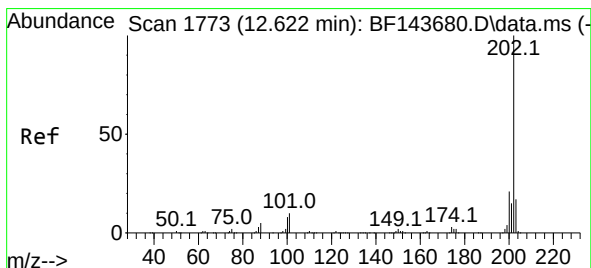
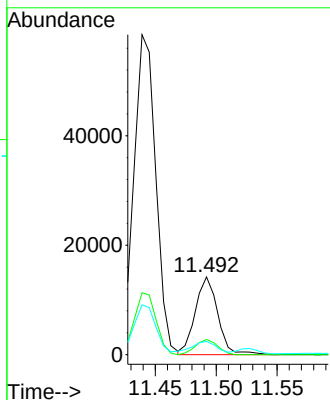
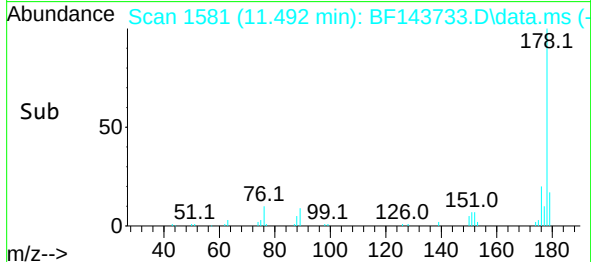
Instrument :
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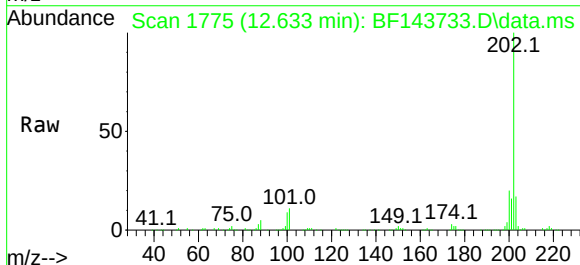
Tgt Ion:178 Resp: 18215
 Ion Ratio Lower Upper
 178 100
 176 19.6 14.5 21.7
 179 17.1 12.2 18.2

Manual Integrations
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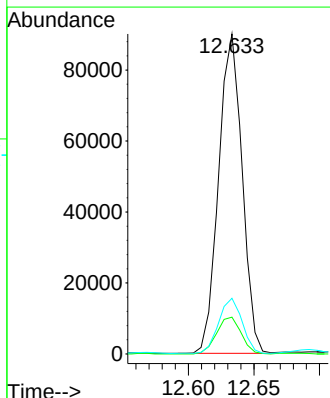
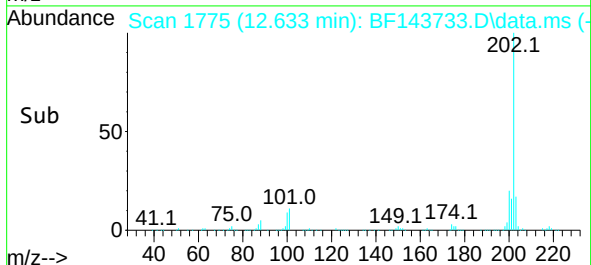
Reviewed By :Rahul Chavli 09/15/2025
 Supervised By :Jagrut Upadhyay 09/15/2025

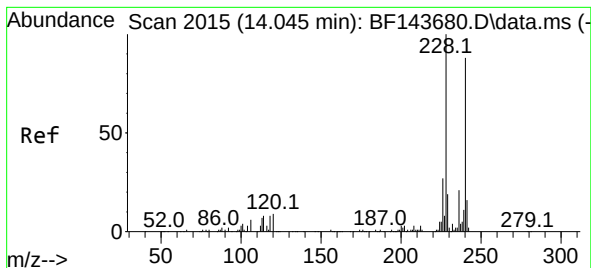


#75
 Fluoranthene
 Concen: 28.443 ng
 RT: 12.633 min Scan# 1775
 Delta R.T. 0.011 min
 Lab File: BF143733.D
 Acq: 12 Sep 2025 15:12



Tgt Ion:202 Resp: 112239
 Ion Ratio Lower Upper
 202 100
 101 11.5 0.0 30.5
 203 17.4 0.0 37.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.062 min Scan# 2015

Delta R.T. 0.017 min

Lab File: BF143733.D

Acq: 12 Sep 2025 15:12

Instrument :

BNA_F

ClientSampleId :

WC-31

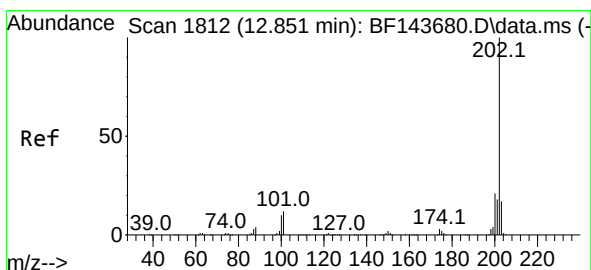
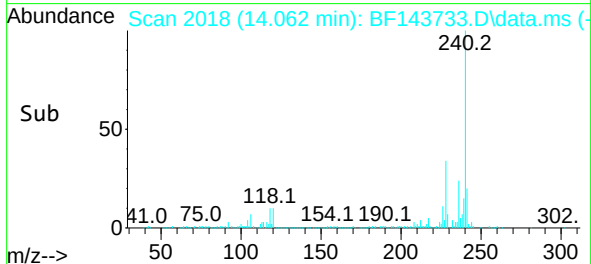
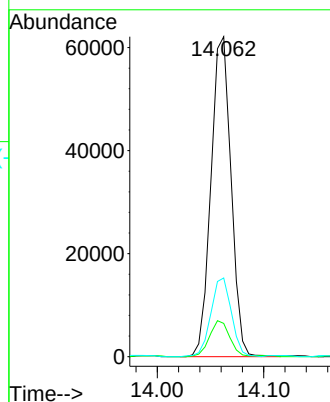
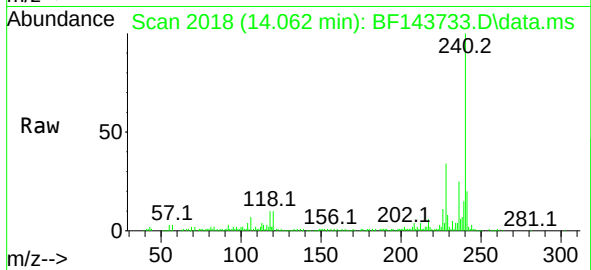
Tgt Ion:240	Resp:	8166
Ion Ratio	Lower	Upper
240	100	
120	10.4	8.4 12.6
236	24.6	18.6 28.0

Manual Integrations

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#78

Pyrene

Concen: 17.219 ng

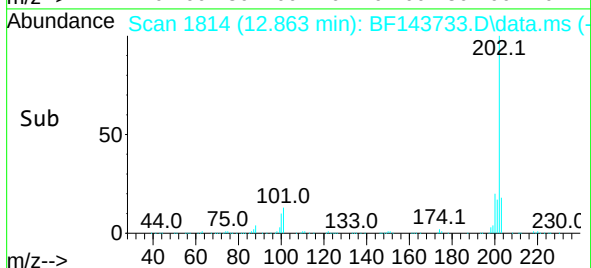
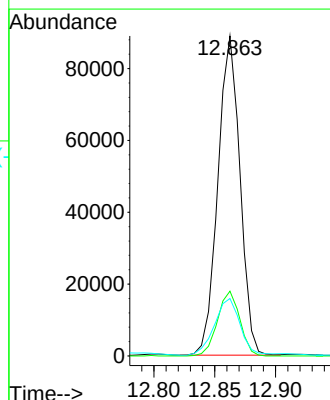
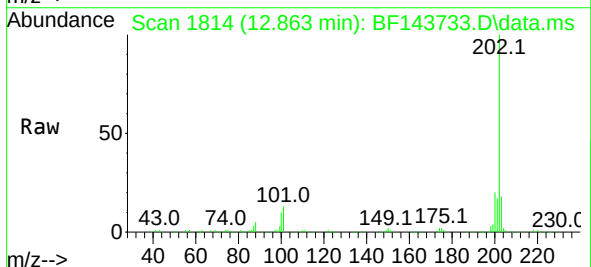
RT: 12.863 min Scan# 1814

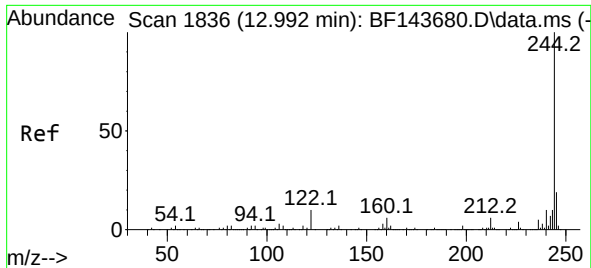
Delta R.T. 0.011 min

Lab File: BF143733.D

Acq: 12 Sep 2025 15:12

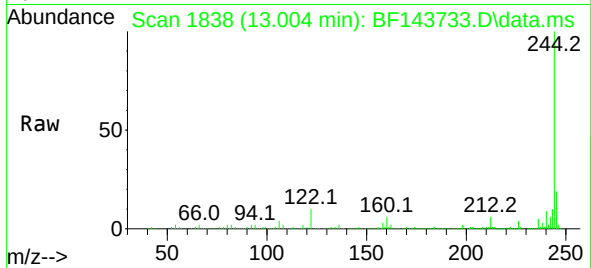
Tgt Ion:202	Resp:	112436
Ion Ratio	Lower	Upper
202	100	
200	20.3	16.6 24.8
203	17.9	13.5 20.3





#79
 Terphenyl-d14
 Concen: 45.302 ng
 RT: 13.004 min Scan# 1838
 Delta R.T. 0.011 min
 Lab File: BF143733.D
 Acq: 12 Sep 2025 15:12

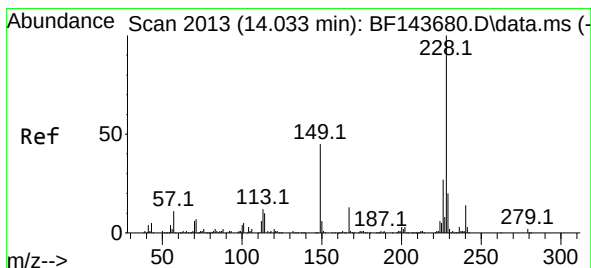
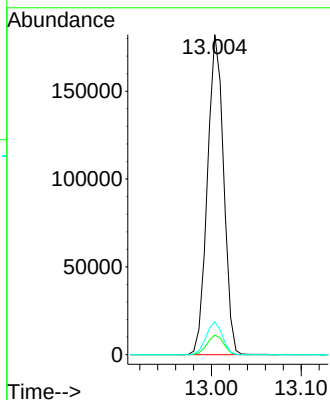
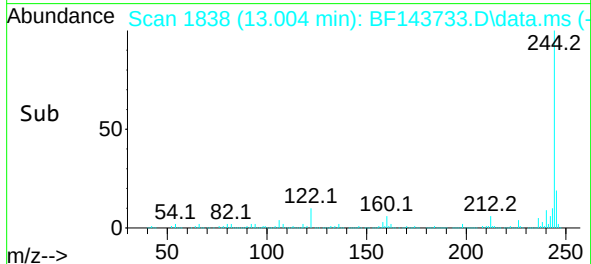
Instrument :
 BNA_F
 ClientSampleId :
 WC-31



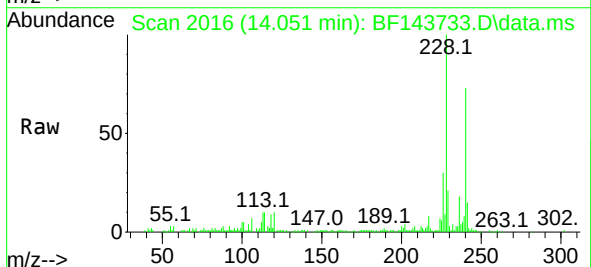
Tgt Ion:244 Resp: 22830
 Ion Ratio Lower Upper
 244 100
 212 6.2 5.0 7.6
 122 10.3 7.9 11.9

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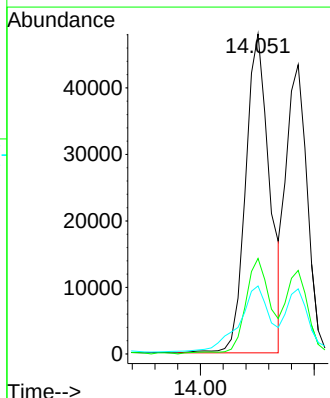
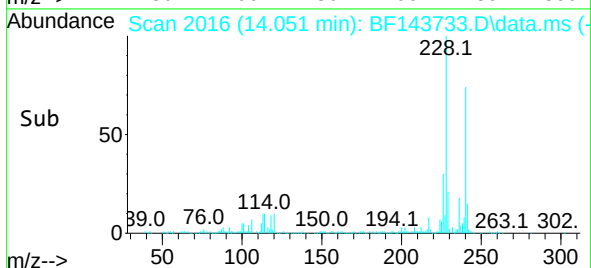
Reviewed By :Rahul Chavli 09/15/2025
 Supervised By :Jagrut Upadhyay 09/15/2025

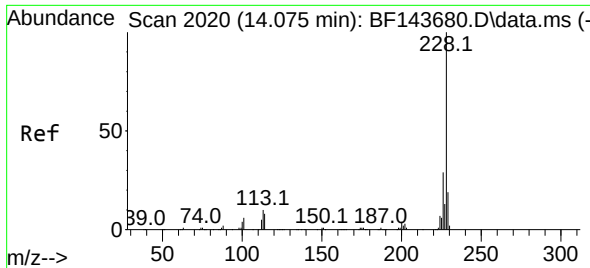


#81
 Benzo(a)anthracene
 Concen: 13.403 ng
 RT: 14.051 min Scan# 2016
 Delta R.T. 0.017 min
 Lab File: BF143733.D
 Acq: 12 Sep 2025 15:12



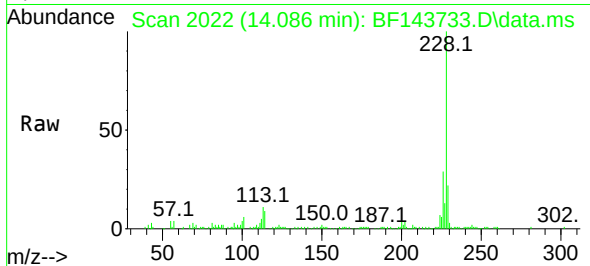
Tgt Ion:228 Resp: 70418
 Ion Ratio Lower Upper
 228 100
 226 29.9 21.6 32.4
 229 21.3 15.7 23.5





#83
Chrysene
Concen: 11.508 ng
RT: 14.086 min Scan# 2020
Delta R.T. 0.011 min
Lab File: BF143733.D
Acq: 12 Sep 2025 15:12

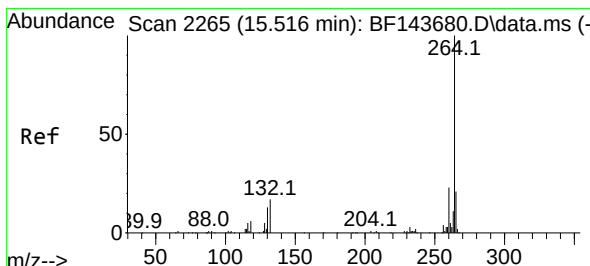
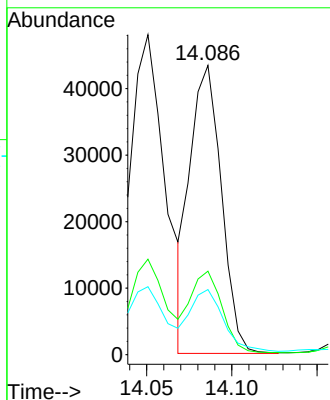
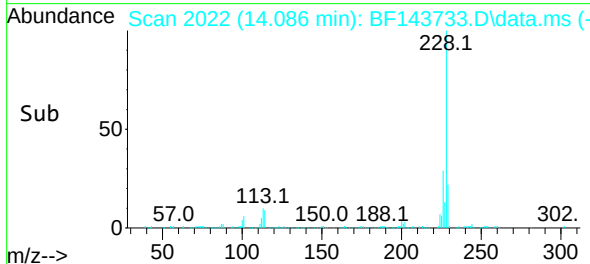
Instrument :
BNA_F
ClientSampleId :
WC-31



Tgt Ion:228 Resp: 55375
Ion Ratio Lower Upper
228 100
226 28.9 22.7 34.1
229 22.5 15.1 22.7

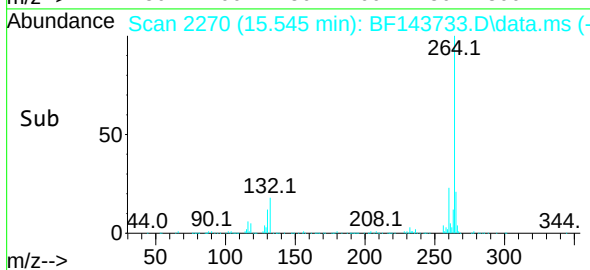
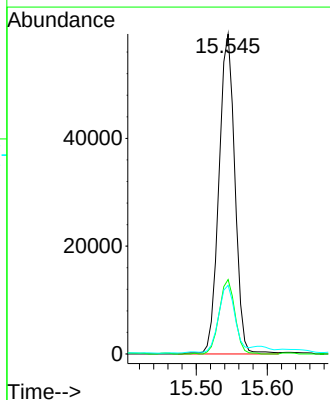
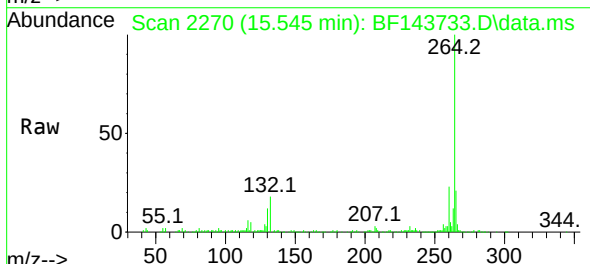
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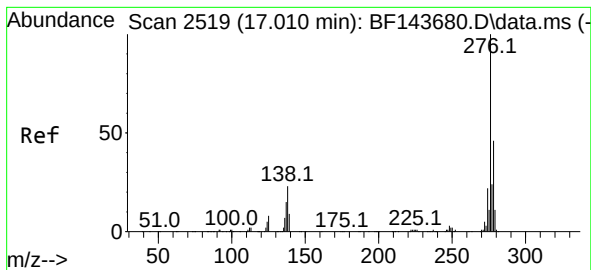
Reviewed By :Rahul Chavli 09/15/2025
Supervised By :Jagrut Upadhyay 09/15/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2270
Delta R.T. 0.029 min
Lab File: BF143733.D
Acq: 12 Sep 2025 15:12

Tgt Ion:264 Resp: 92226
Ion Ratio Lower Upper
264 100
260 23.2 18.4 27.6
265 21.5 17.1 25.7





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.280 ng

RT: 17.027 min Scan# 2196

Delta R.T. 0.017 min

Lab File: BF143733.D

Acq: 12 Sep 2025 15:12

Instrument :

BNA_F

ClientSampleId :

WC-31

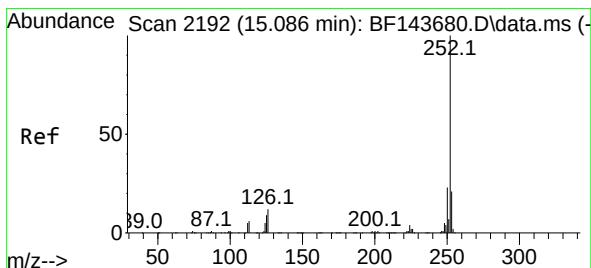
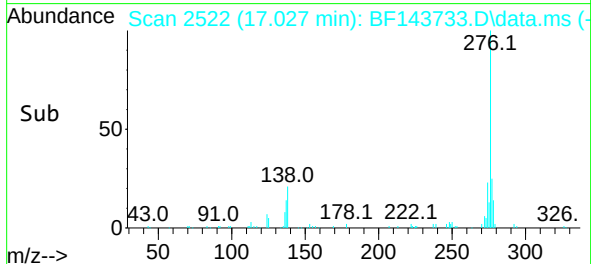
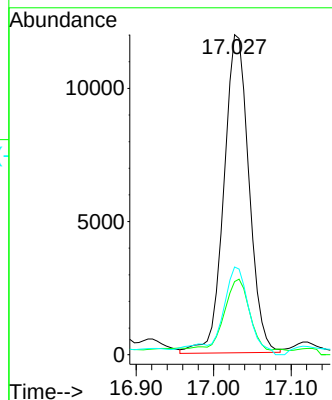
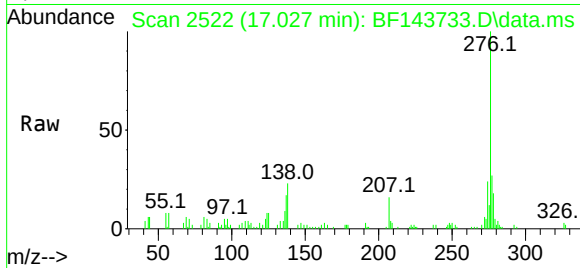
Tgt Ion:	276	Resp:	2694
Ion Ratio	Lower	Upper	
276	100		
138	21.3	19.7	29.5
277	30.6	20.2	30.2

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Reviewed By :Rahul Chavli 09/15/2025

Supervised By :Jagrut Upadhyay 09/15/2025



#88

Benzo(b)fluoranthene

Concen: 12.987 ng m

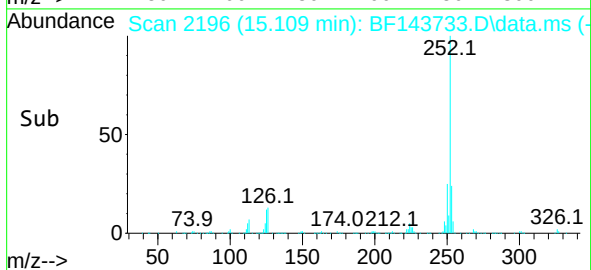
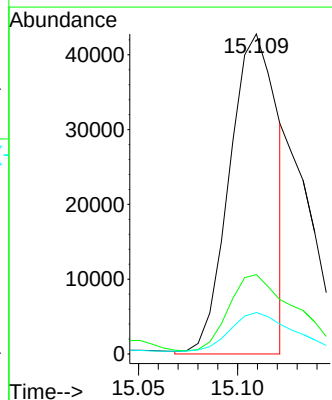
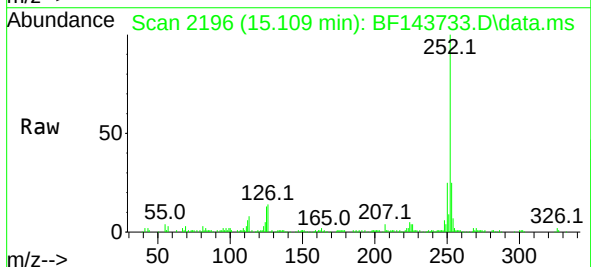
RT: 15.109 min Scan# 2196

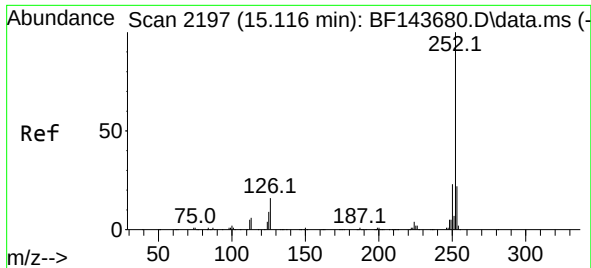
Delta R.T. 0.023 min

Lab File: BF143733.D

Acq: 12 Sep 2025 15:12

Tgt Ion:	252	Resp:	71297
Ion Ratio	Lower	Upper	
252	100		
253	24.8	17.0	25.4
125	13.0	7.4	11.0





#89

Benzo(k)fluoranthene

Concen: 5.646 ng m

RT: 15.121 min Scan# 2197

Delta R.T. 0.006 min

Lab File: BF143733.D

Acq: 12 Sep 2025 15:12

Instrument :

BNA_F

ClientSampleId :

WC-31

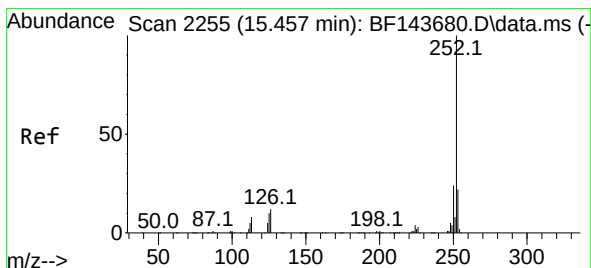
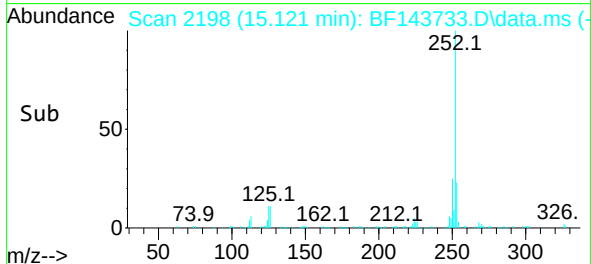
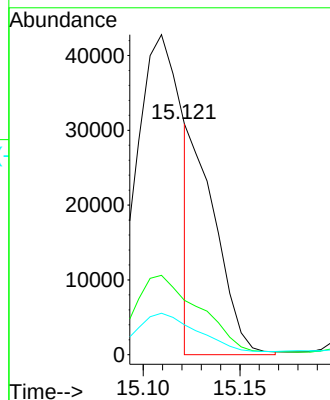
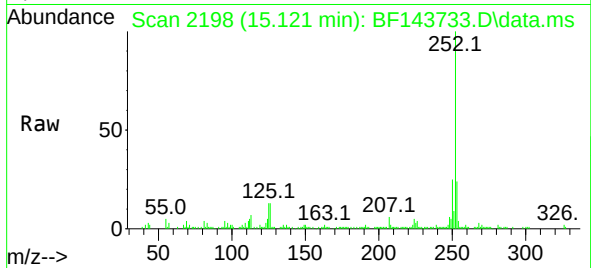
Tgt Ion:252	Resp:	27970
Ion Ratio	Lower	Upper
252	100	
253	23.6	17.3 25.9
125	13.0	7.3 10.9

Manual Integrations

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Reviewed By :Rahul Chavli 09/15/2025

Supervised By :Jagrut Upadhyay 09/15/2025



#90

Benzo(a)pyrene

Concen: 11.862 ng

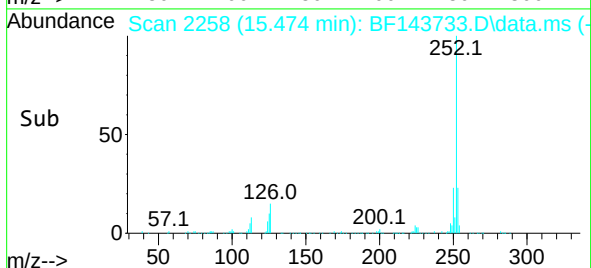
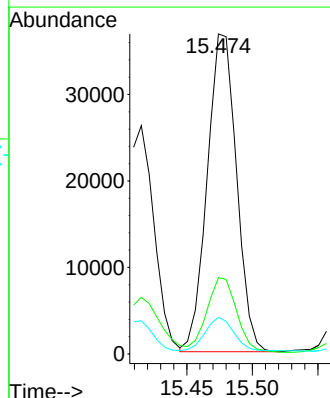
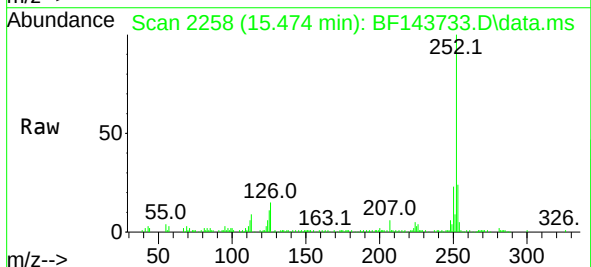
RT: 15.474 min Scan# 2258

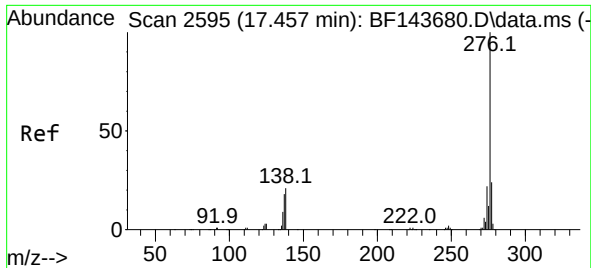
Delta R.T. 0.017 min

Lab File: BF143733.D

Acq: 12 Sep 2025 15:12

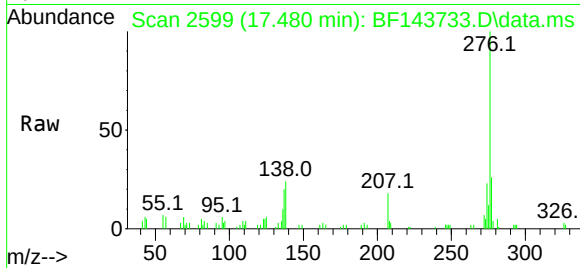
Tgt Ion:252	Resp:	57214
Ion Ratio	Lower	Upper
252	100	
253	23.8	17.4 26.0
125	11.4	8.2 12.4





#92
Benzo(g,h,i)perylene
Concen: 5.284 ng
RT: 17.480 min Scan# 21
Delta R.T. 0.023 min
Lab File: BF143733.D
Acq: 12 Sep 2025 15:12

Instrument :
BNA_F
ClientSampleId :
WC-31



Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.4	19.2	28.8
138	23.9	17.0	25.4

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Reviewed By :Rahul Chavli 09/15/2025
Supervised By :Jagrut Upadhyay 09/15/2025

