

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080425\
 Data File : BF143296.D
 Acq On : 04 Aug 2025 15:09
 Operator : RC/JU
 Sample : Q2740-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-07312025

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 08/05/2025
 Supervised By :Jagrut Upadhyay 08/05/2025

Quant Time: Aug 04 15:31:43 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 17 15:14:05 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.957	152	110307	20.000	ng	0.00
21) Naphthalene-d8	8.240	136	378806	20.000	ng	0.00
39) Acenaphthene-d10	9.992	164	169423	20.000	ng	0.00
64) Phenanthrene-d10	11.481	188	270909	20.000	ng	0.00
76) Chrysene-d12	14.127	240	272435	20.000	ng	0.00
86) Perylene-d12	15.633	264	238808	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.587	112	382491	54.872	ng	0.00
7) Phenol-d6	6.581	99	462058	52.664	ng	0.00
23) Nitrobenzene-d5	7.510	82	291574	38.368	ng	-0.01
42) 2,4,6-Tribromophenol	10.781	330	92353	52.766	ng	0.00
45) 2-Fluorobiphenyl	9.310	172	509405	41.120	ng	-0.01
79) Terphenyl-d14	13.063	244	540450	29.521	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.257	128	92897	4.980	ng	99
37) 2-Methylnaphthalene	8.951	142	33837	2.981	ng	98
38) 1-Methylnaphthalene	9.051	142	38838	3.322	ng	98
49) Acenaphthylene	9.857	152	86856	5.299	ng	98
52) Acenaphthene	10.028	154	74340	7.674	ng	98
55) Dibenzofuran	10.198	168	61885	4.303	ng	# 98
58) Fluorene	10.539	166	127280	11.791	ng	100
71) Phenanthrene	11.510	178	857226	59.594	ng	100
72) Anthracene	11.557	178	286454	19.526	ng	100
73) Carbazole	11.704	167	56597	4.418	ng	97
75) Fluoranthene	12.698	202	1385659	104.950	ng	98
78) Pyrene	12.933	202	1371551	58.989	ng	98
81) Benzo(a)anthracene	14.116	228	747236	40.968	ng	94
83) Chrysene	14.151	228	625270	38.128	ng	97
87) Indeno(1,2,3-cd)pyrene	17.174	276	280047	16.631	ng	97
88) Benzo(b)fluoranthene	15.192	252	908967m	62.305	ng	
89) Benzo(k)fluoranthene	15.210	252	257173m	19.754	ng	
90) Benzo(a)pyrene	15.574	252	557233	41.456	ng	96
91) Dibenzo(a,h)anthracene	17.180	278	63272	4.616	ng	# 90
92) Benzo(g,h,i)perylene	17.639	276	272451	20.550	ng	98

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

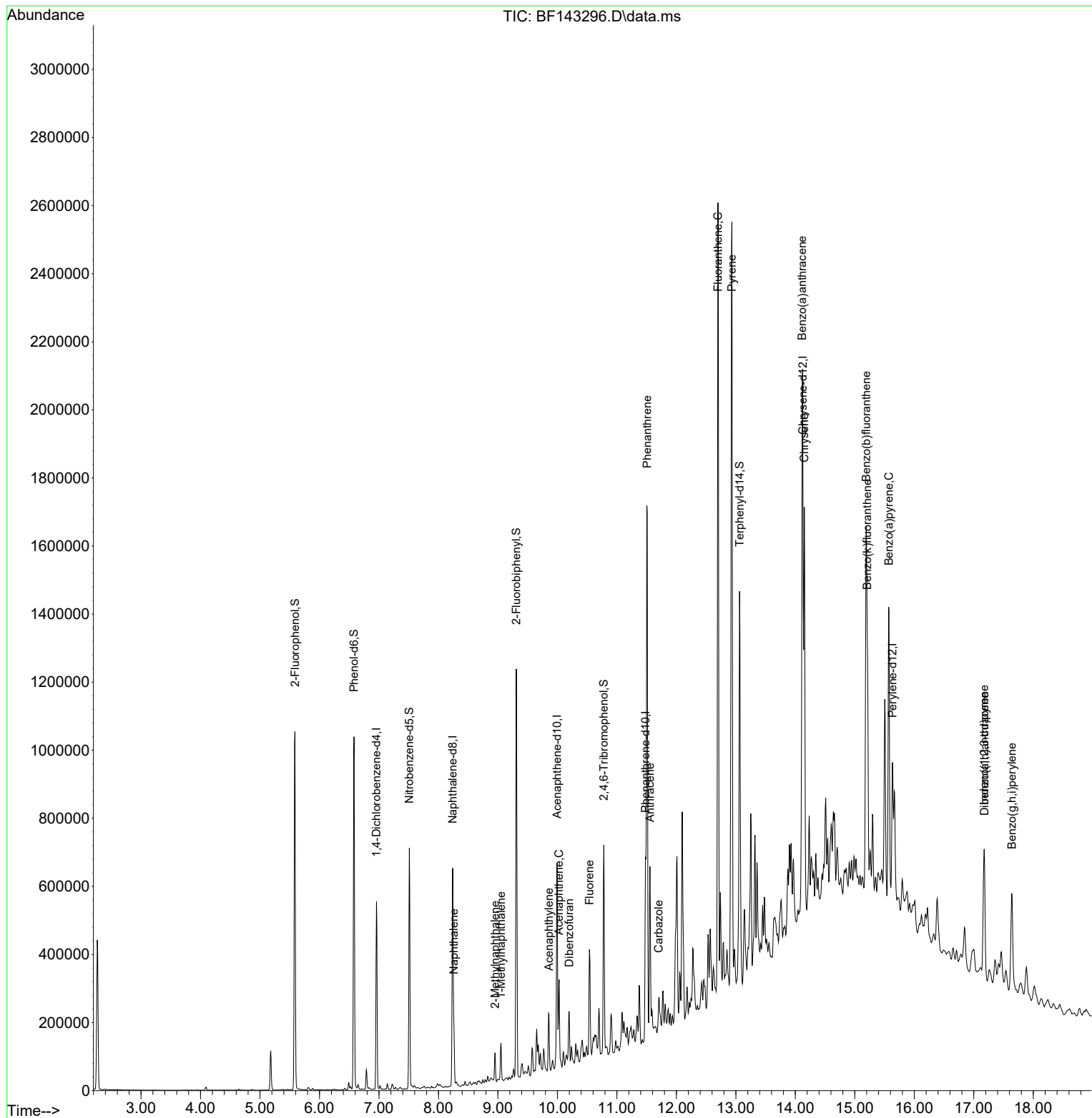
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080425\
Data File : BF143296.D
Acq On : 04 Aug 2025 15:09
Operator : RC/JU
Sample : Q2740-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

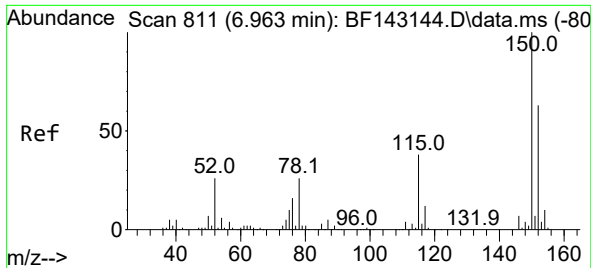
Instrument :
BNA_F
ClientSampleId :
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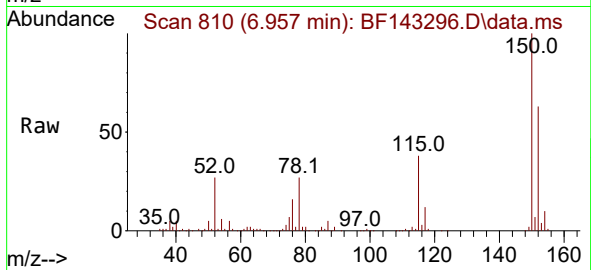
Quant Time: Aug 04 15:31:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 17 15:14:05 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.957 min Scan# 811
Delta R.T. -0.006 min
Lab File: BF143296.D
Acq: 04 Aug 2025 15:09

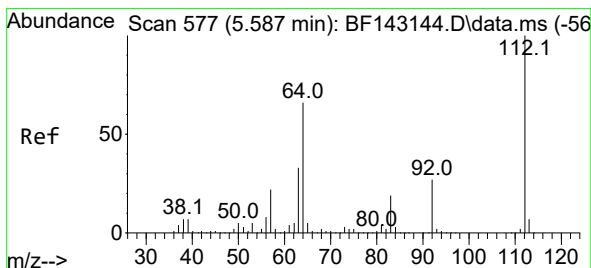
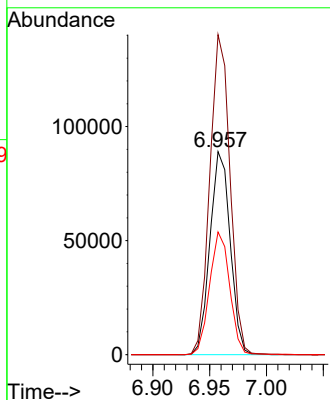
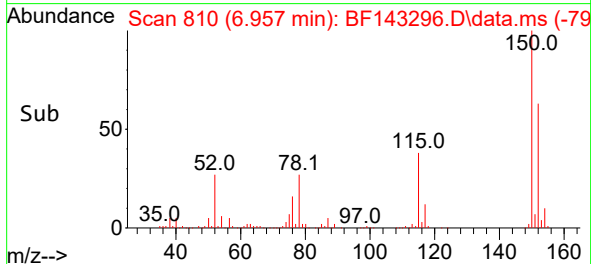
Instrument :
BNA_F
ClientSampleId :
OR-02-07312025



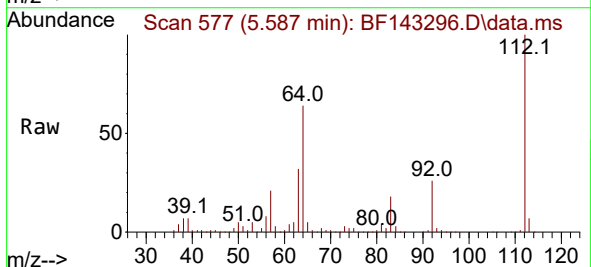
Tgt Ion:152 Resp: 110307
Ion Ratio Lower Upper
152 100
150 157.6 128.2 192.4
115 60.5 47.9 71.9

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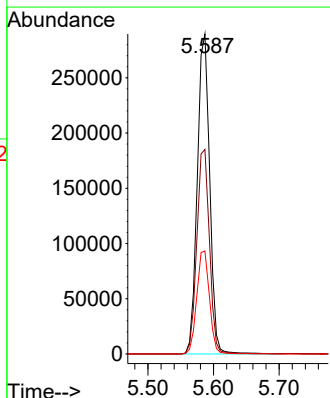
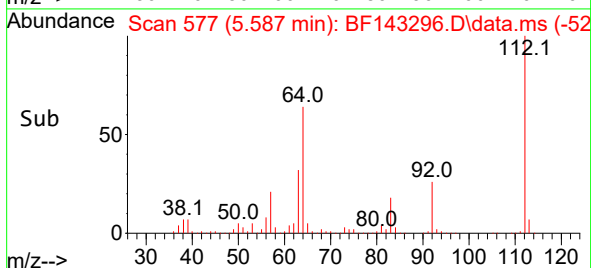
Reviewed By :Rahul Chavli 08/05/2025
Supervised By :Jagrut Upadhyay 08/05/2025

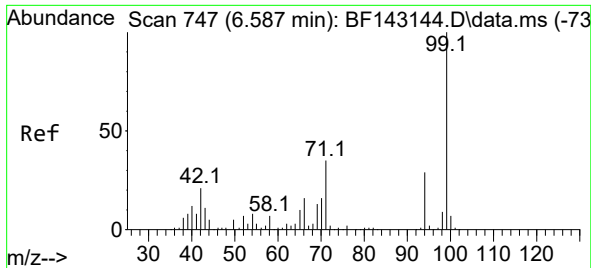


#5
2-Fluorophenol
Concen: 54.872 ng
RT: 5.587 min Scan# 577
Delta R.T. 0.000 min
Lab File: BF143296.D
Acq: 04 Aug 2025 15:09



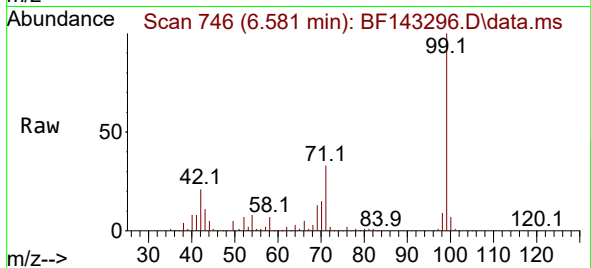
Tgt Ion:112 Resp: 382491
Ion Ratio Lower Upper
112 100
64 63.9 53.1 79.7
63 32.2 26.6 40.0





#7
Phenol-d6
Concen: 52.664 ng
RT: 6.581 min Scan# 74
Delta R.T. -0.006 min
Lab File: BF143296.D
Acq: 04 Aug 2025 15:09

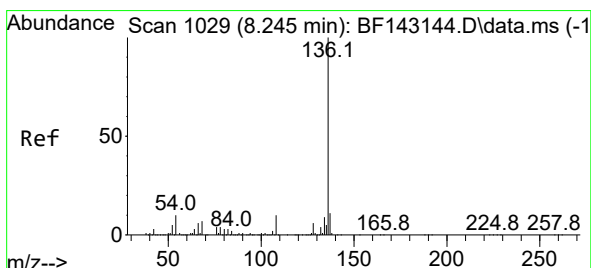
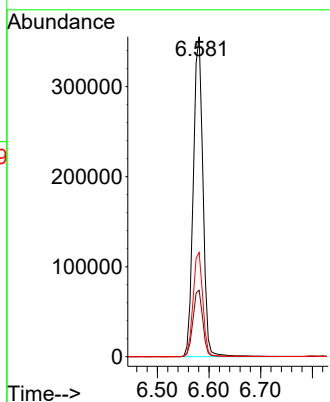
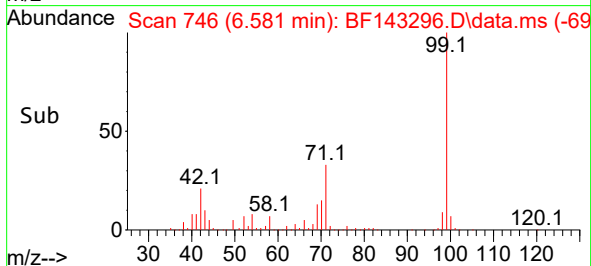
Instrument :
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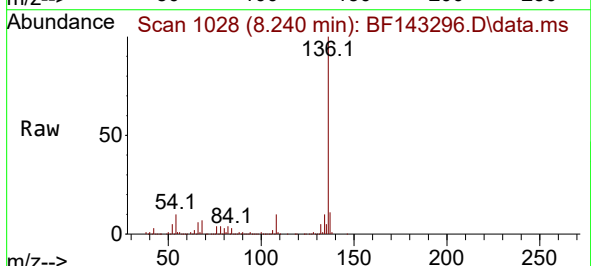
Tgt Ion: 99 Resp: 462058
Ion Ratio Lower Upper
99 100
42 20.8 17.0 25.6
71 32.6 27.7 41.5

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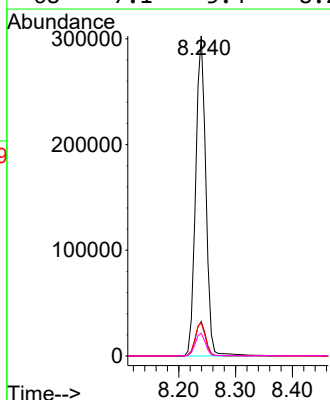
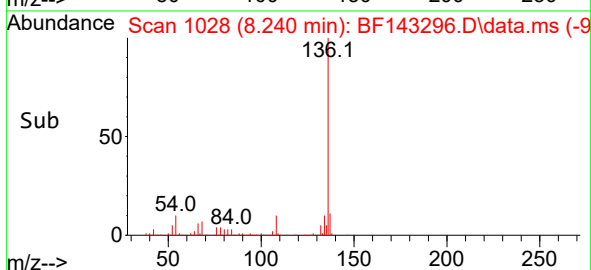
Reviewed By :Rahul Chavli 08/05/2025
Supervised By :Jagrut Upadhyay 08/05/2025

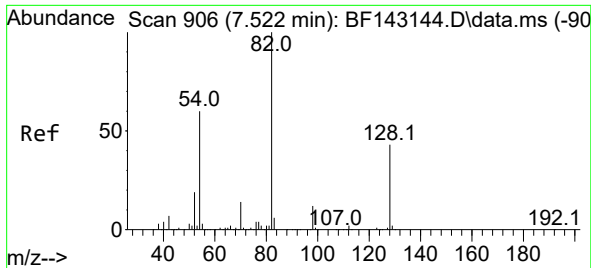


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.240 min Scan# 1028
Delta R.T. -0.005 min
Lab File: BF143296.D
Acq: 04 Aug 2025 15:09



Tgt Ion:136 Resp: 378806
Ion Ratio Lower Upper
136 100
137 10.7 8.6 13.0
54 10.3 8.2 12.2
68 7.1 5.4 8.2





#23

Nitrobenzene-d5

Concen: 38.368 ng

RT: 7.510 min Scan# 906

Delta R.T. -0.012 min

Lab File: BF143296.D

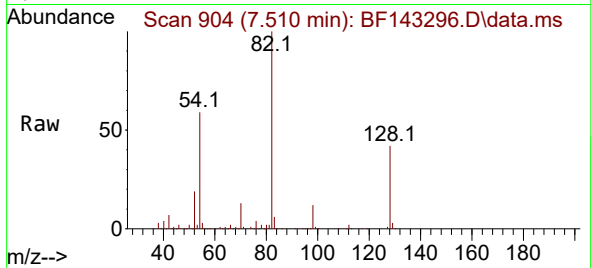
Acq: 04 Aug 2025 15:09

Instrument :

BNA_F

ClientSampleId :

OR-02-07312025



Tgt Ion: 82 Resp: 291574

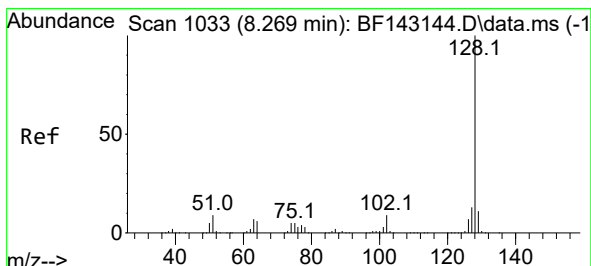
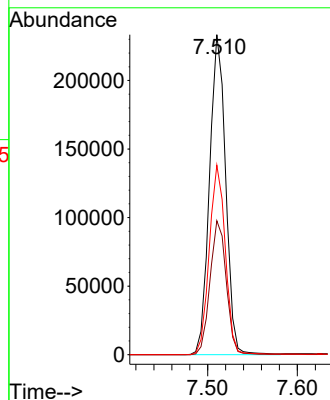
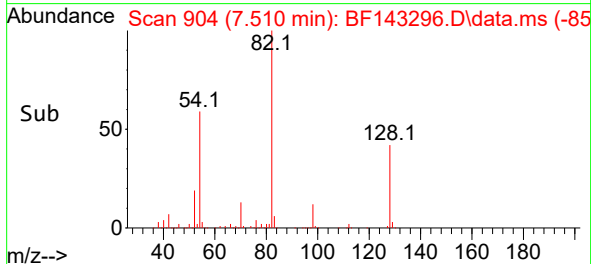
Ion	Ratio	Lower	Upper
82	100		
128	41.8	33.6	50.4
54	59.2	47.1	70.7

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#31

Naphthalene

Concen: 4.980 ng

RT: 8.257 min Scan# 1031

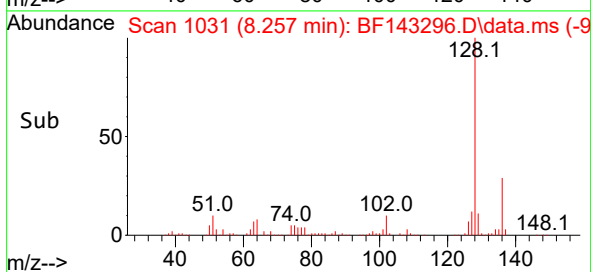
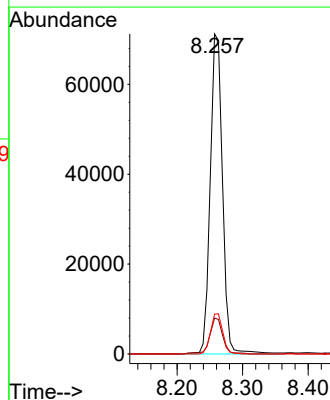
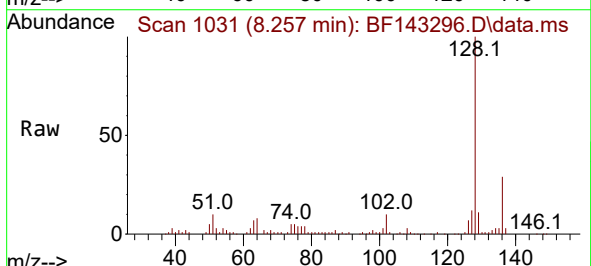
Delta R.T. -0.012 min

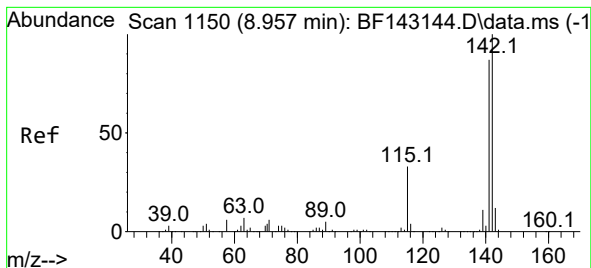
Lab File: BF143296.D

Acq: 04 Aug 2025 15:09

Tgt Ion:128 Resp: 92897

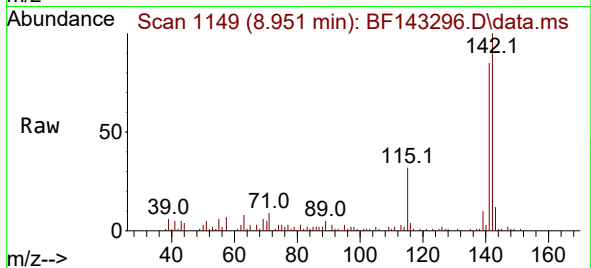
Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.0	13.4
127	12.4	10.6	16.0





#37
2-Methylnaphthalene
Concen: 2.981 ng
RT: 8.951 min Scan# 1149
Delta R.T. -0.006 min
Lab File: BF143296.D
Acq: 04 Aug 2025 15:09

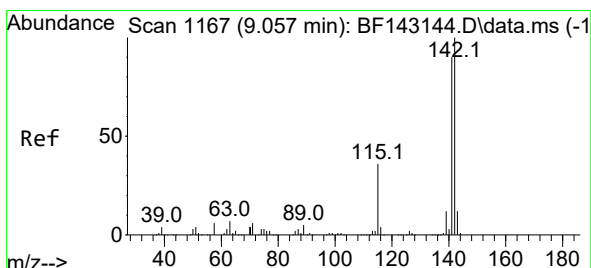
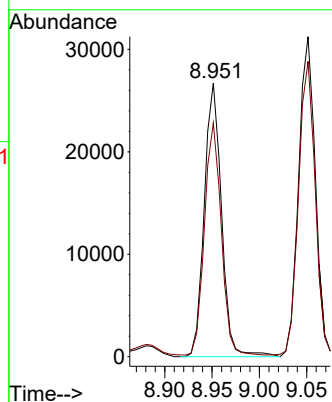
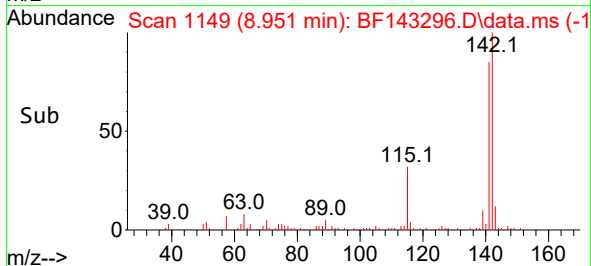
Instrument :
BNA_F
ClientSampleId :
OR-02-07312025



Tgt Ion:142 Resp: 3383
Ion Ratio Lower Upper
142 100
141 85.5 69.9 104.9

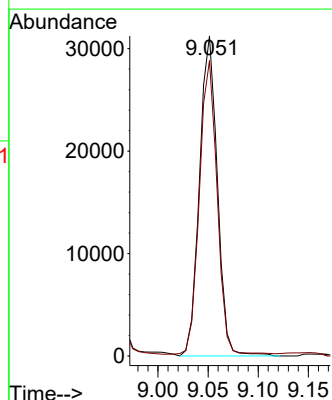
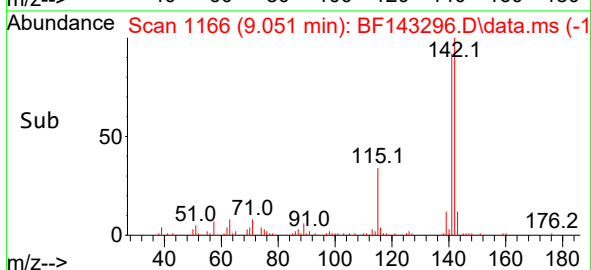
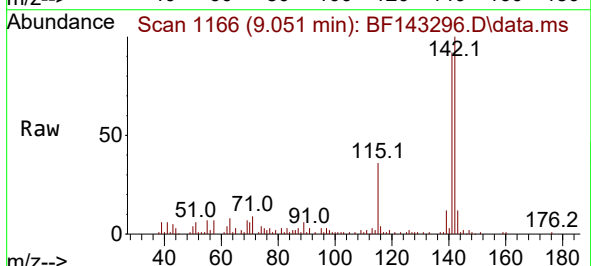
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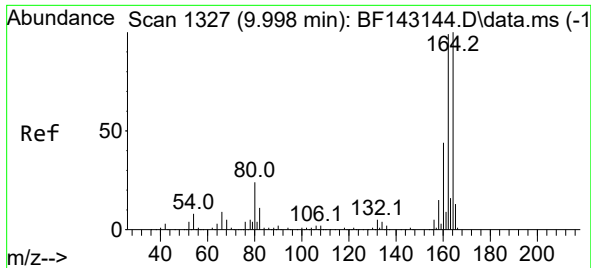
Reviewed By :Rahul Chavli 08/05/2025
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#38
1-Methylnaphthalene
Concen: 3.322 ng
RT: 9.051 min Scan# 1166
Delta R.T. -0.006 min
Lab File: BF143296.D
Acq: 04 Aug 2025 15:09

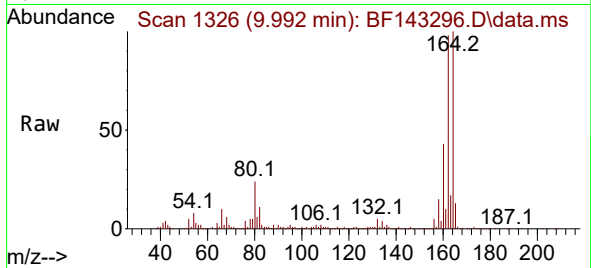
Tgt Ion:142 Resp: 38838
Ion Ratio Lower Upper
142 100
141 92.3 72.3 108.5





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.992 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143296.D
Acq: 04 Aug 2025 15:09

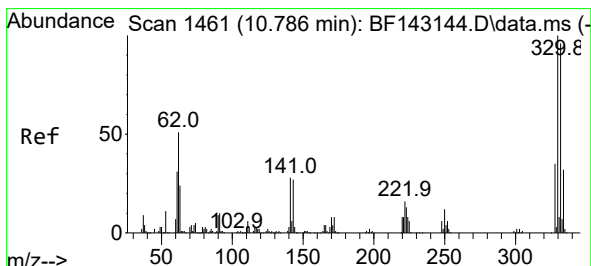
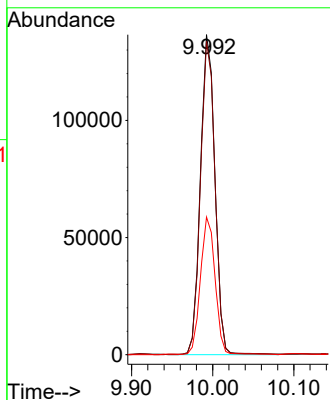
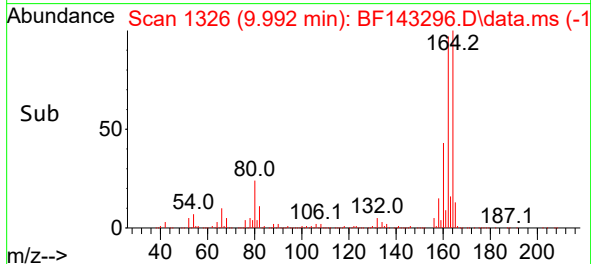
Instrument :
BNA_F
ClientSampleId :
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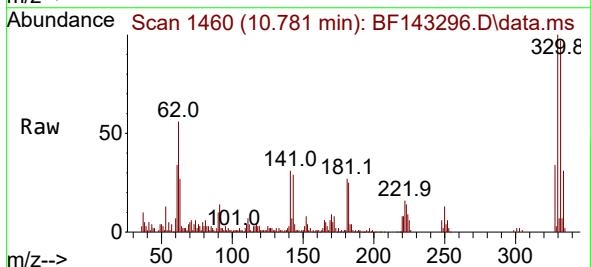
Tgt Ion:164 Resp: 16942
Ion Ratio Lower Upper
164 100
162 97.9 79.0 118.6
160 43.0 35.1 52.7

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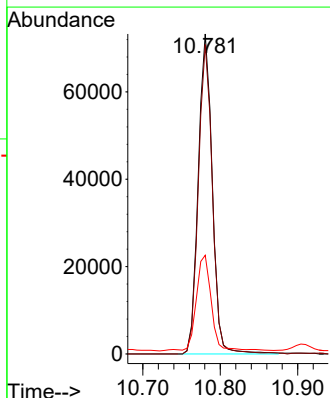
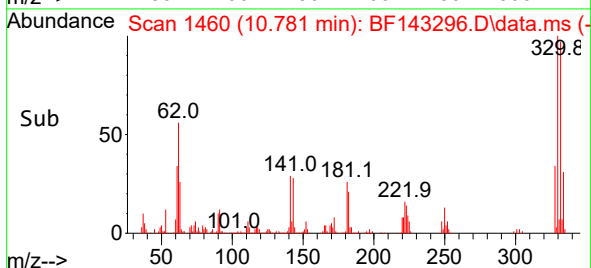
Reviewed By :Rahul Chavli 08/05/2025
Supervised By :Jagrut Upadhyay 08/05/2025

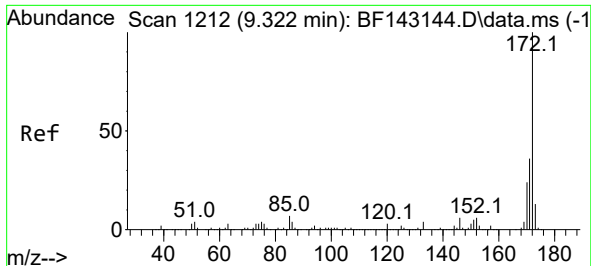


#42
2,4,6-Tribromophenol
Concen: 52.766 ng
RT: 10.781 min Scan# 1460
Delta R.T. -0.006 min
Lab File: BF143296.D
Acq: 04 Aug 2025 15:09



Tgt Ion:330 Resp: 92353
Ion Ratio Lower Upper
330 100
332 96.0 76.7 115.1
141 31.8 23.3 34.9





#45

2-Fluorobiphenyl

Concen: 41.120 ng

RT: 9.310 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF143296.D

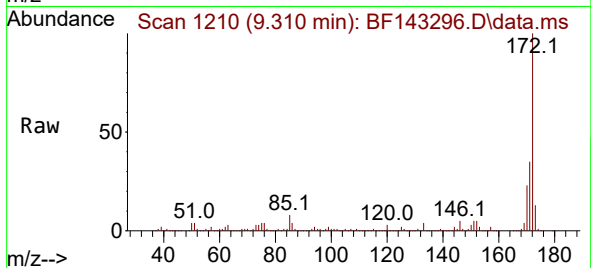
Acq: 04 Aug 2025 15:09

Instrument :

BNA_F

ClientSampleId :

OR-02-07312025



Tgt Ion:172 Resp: 50940

Ion Ratio Lower Upper

172 100

171 34.6 28.6 42.8

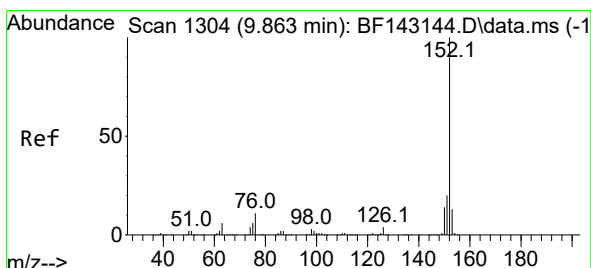
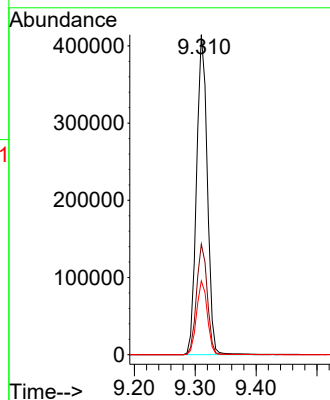
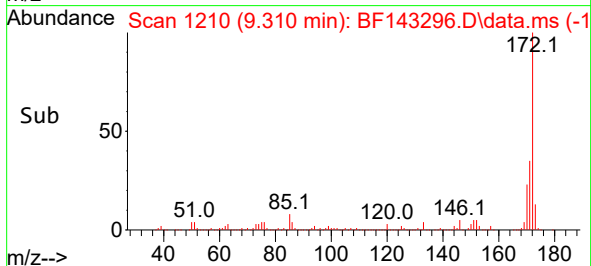
170 23.1 18.8 28.2

Manual Integrations

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Supervised By :Jagrut Upadhyay 08/05/2025



#49

Acenaphthylene

Concen: 5.299 ng

RT: 9.857 min Scan# 1303

Delta R.T. -0.006 min

Lab File: BF143296.D

Acq: 04 Aug 2025 15:09

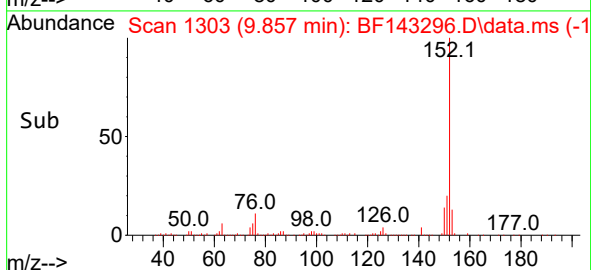
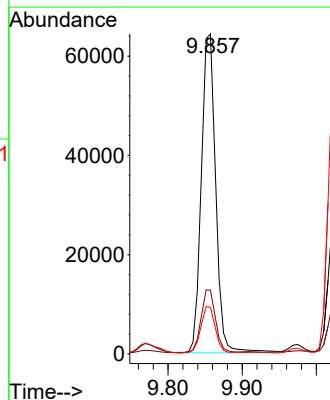
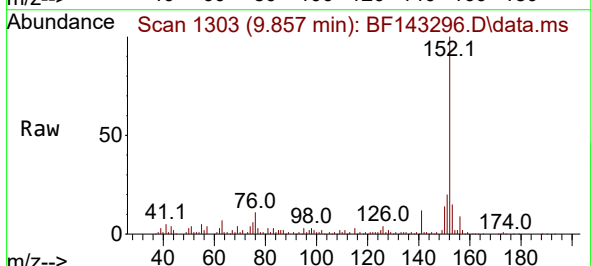
Tgt Ion:152 Resp: 86856

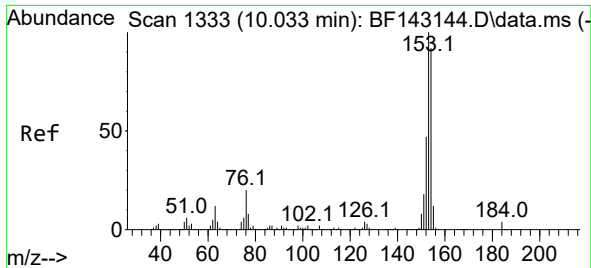
Ion Ratio Lower Upper

152 100

151 20.0 16.2 24.2

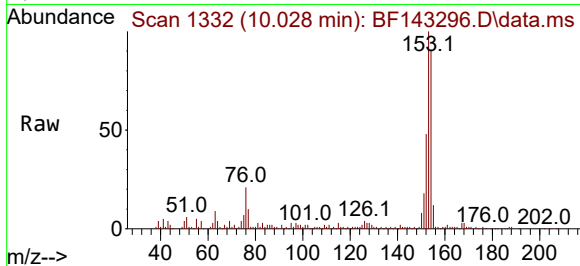
153 14.5 10.6 16.0





#52
Acenaphthene
Concen: 7.674 ng
RT: 10.028 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143296.D
Acq: 04 Aug 2025 15:09

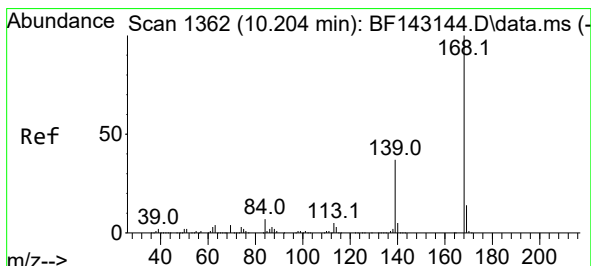
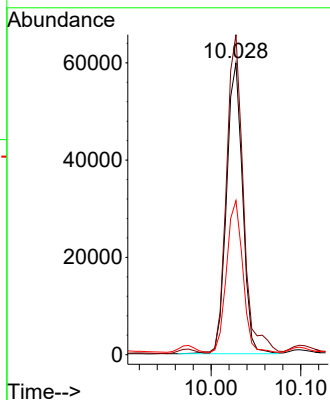
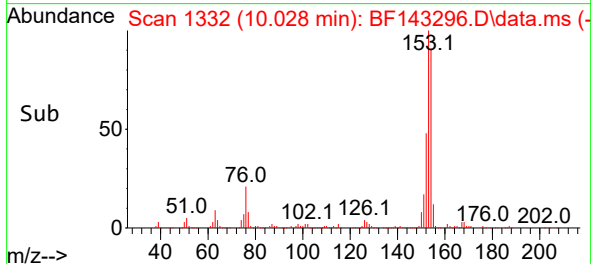
Instrument :
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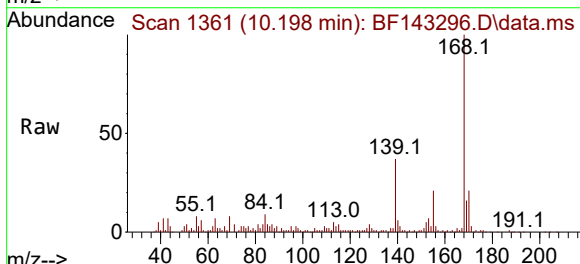
Tgt Ion:154 Resp: 74340
Ion Ratio Lower Upper
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153 109.7 86.6 129.8
152 52.8 40.4 60.6

Manual Integrations
APPROVED

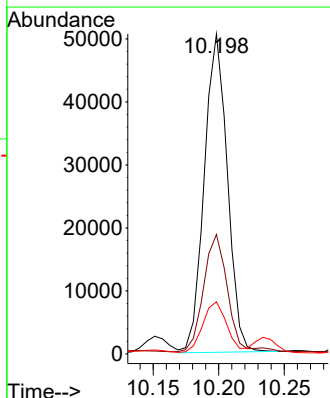
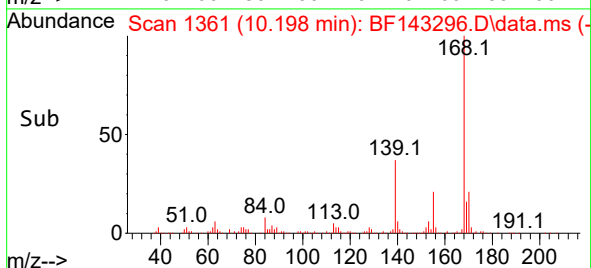
Reviewed By :Rahul Chavli 08/05/2025
Supervised By :Jagrut Upadhyay 08/05/2025

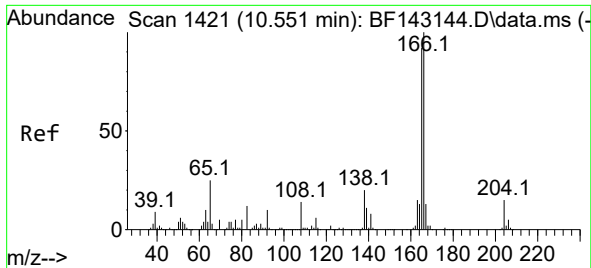


#55
Dibenzofuran
Concen: 4.303 ng
RT: 10.198 min Scan# 1361
Delta R.T. -0.006 min
Lab File: BF143296.D
Acq: 04 Aug 2025 15:09



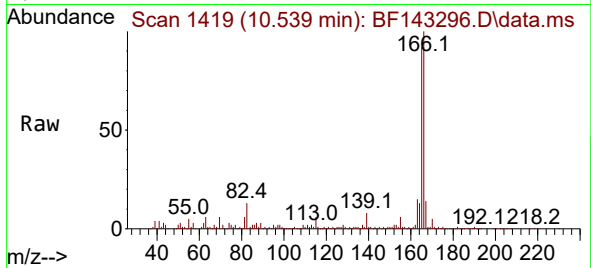
Tgt Ion:168 Resp: 61885
Ion Ratio Lower Upper
168 100
139 37.4 29.5 44.3
169 16.3 10.9 16.3#





#58
Fluorene
Concen: 11.791 ng
RT: 10.539 min Scan# 1421
Delta R.T. -0.012 min
Lab File: BF143296.D
Acq: 04 Aug 2025 15:09

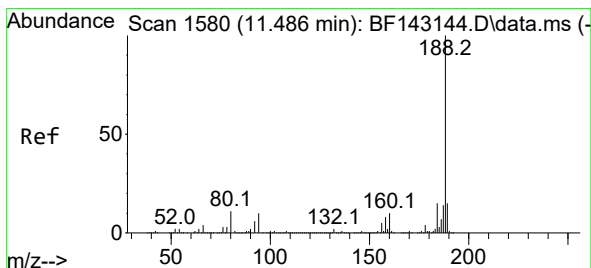
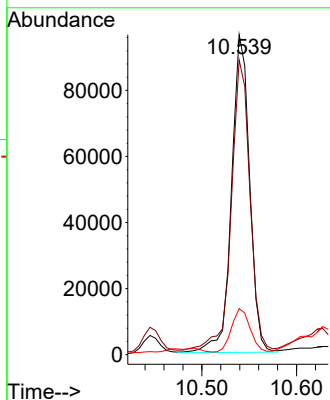
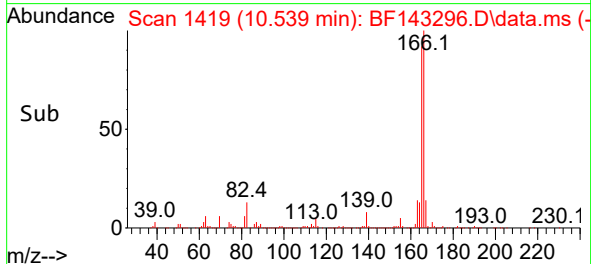
Instrument :
BNA_F
ClientSampleId :
OR-02-07312025



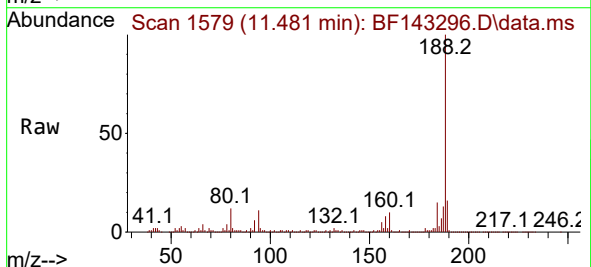
Tgt Ion:166 Resp: 127280
Ion Ratio Lower Upper
166 100
165 92.1 73.7 110.5
167 14.4 10.6 16.0

Manual Integrations
APPROVED

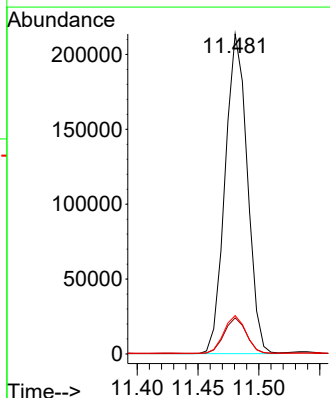
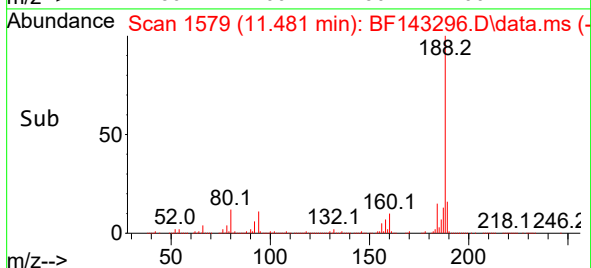
Reviewed By :Rahul Chavli 08/05/2025
Supervised By :Jagrut Upadhyay 08/05/2025

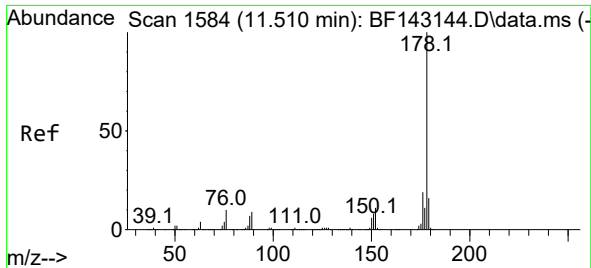


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.481 min Scan# 1579
Delta R.T. -0.006 min
Lab File: BF143296.D
Acq: 04 Aug 2025 15:09



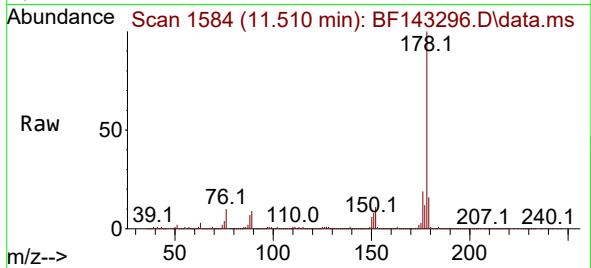
Tgt Ion:188 Resp: 270909
Ion Ratio Lower Upper
188 100
94 11.3 8.3 12.5
80 12.0 9.0 13.6





#71
Phenanthrene
Concen: 59.594 ng
RT: 11.510 min Scan# 1584
Delta R.T. 0.000 min
Lab File: BF143296.D
Acq: 04 Aug 2025 15:09

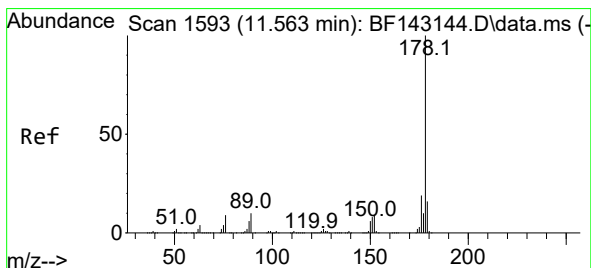
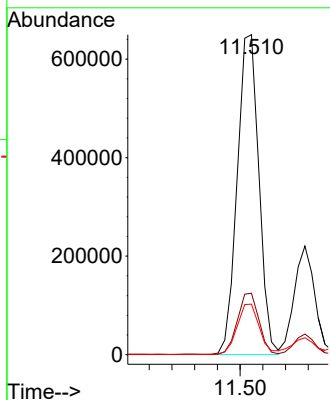
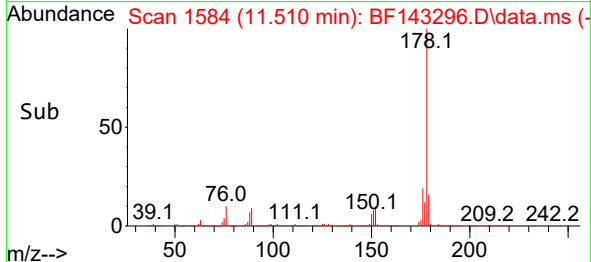
Instrument :
BNA_F
ClientSampleId :
OR-02-07312025



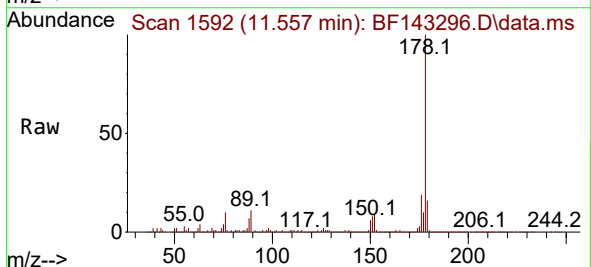
Tgt Ion:178 Resp: 857220
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.8 12.5 18.7

Manual Integrations
APPROVED

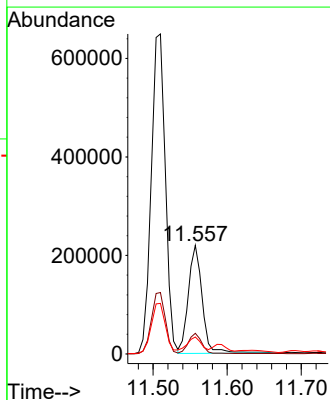
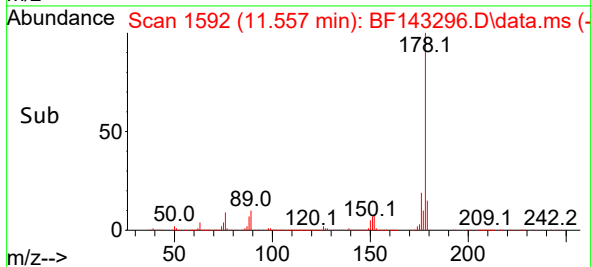
Reviewed By :Rahul Chavli 08/05/2025
Supervised By :Jagrut Upadhyay 08/05/2025

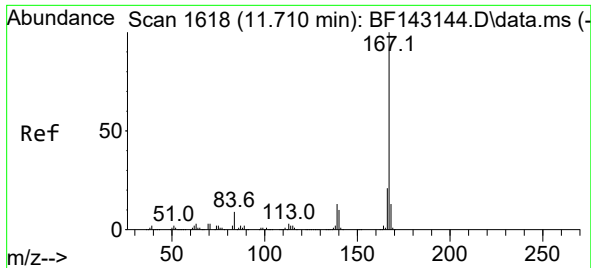


#72
Anthracene
Concen: 19.526 ng
RT: 11.557 min Scan# 1592
Delta R.T. -0.006 min
Lab File: BF143296.D
Acq: 04 Aug 2025 15:09



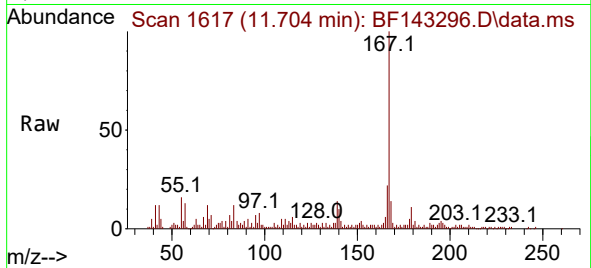
Tgt Ion:178 Resp: 286454
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.4
179 15.6 12.5 18.7





#73
 Carbazole
 Concen: 4.418 ng
 RT: 11.704 min Scan# 1617
 Delta R.T. -0.006 min
 Lab File: BF143296.D
 Acq: 04 Aug 2025 15:09

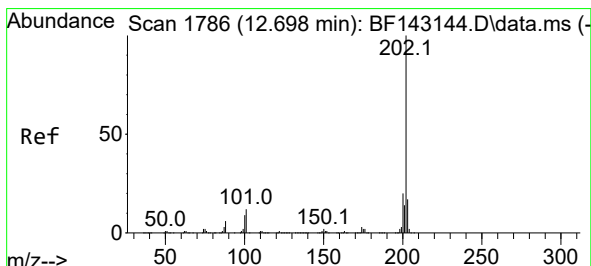
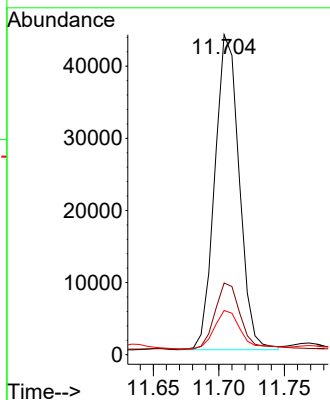
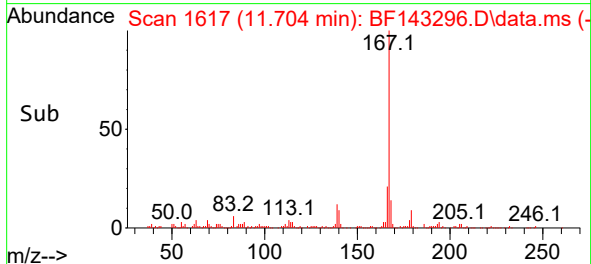
Instrument :
 BNA_F
 ClientSampleId :
 OR-02-07312025



Tgt Ion:167 Resp: 5659
 Ion Ratio Lower Upper
 167 100
 166 22.4 17.0 25.6
 139 13.8 10.0 15.0

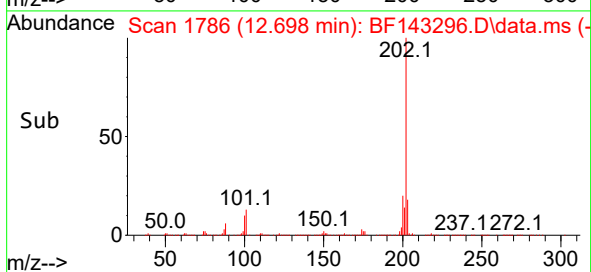
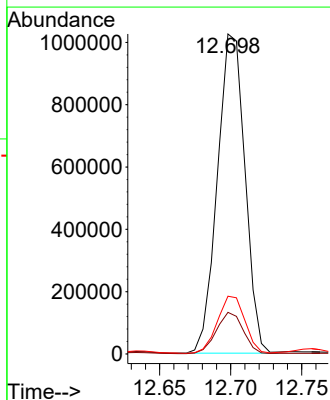
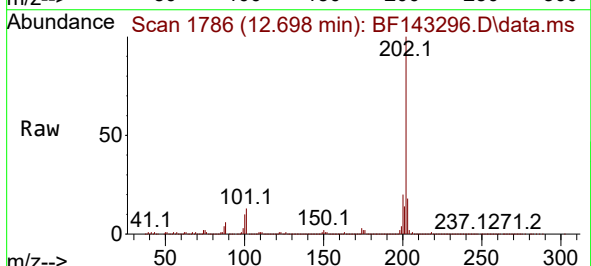
Manual Integrations
 APPROVED

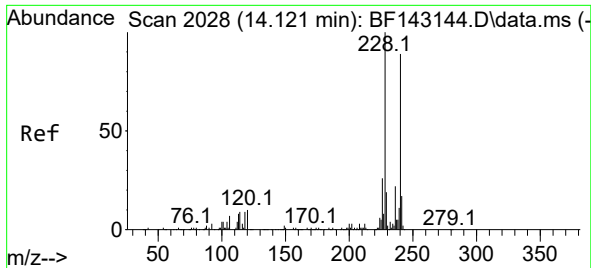
Reviewed By :Rahul Chavli 08/05/2025
 Supervised By :Jagrut Upadhyay 08/05/2025



#75
 Fluoranthene
 Concen: 104.950 ng
 RT: 12.698 min Scan# 1786
 Delta R.T. 0.000 min
 Lab File: BF143296.D
 Acq: 04 Aug 2025 15:09

Tgt Ion:202 Resp: 1385659
 Ion Ratio Lower Upper
 202 100
 101 13.0 0.0 31.7
 203 18.1 0.0 37.4





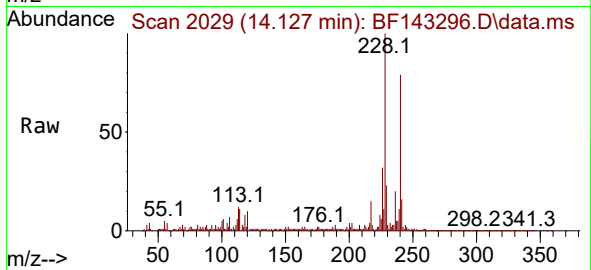
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.127 min Scan# 2028
Delta R.T. 0.006 min
Lab File: BF143296.D
Acq: 04 Aug 2025 15:09

Instrument :

BNA_F

ClientSampleId :

OR-02-07312025



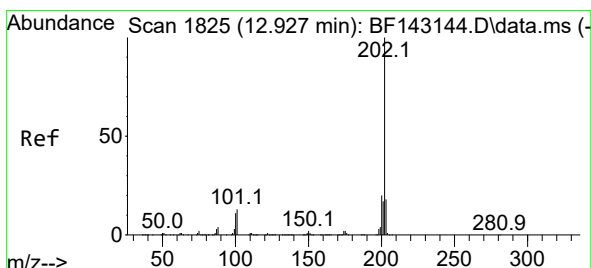
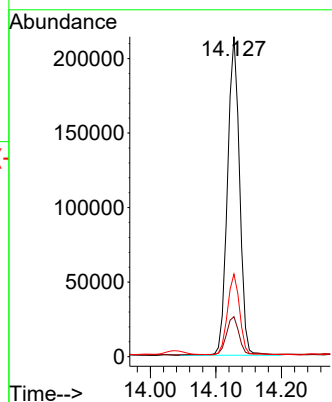
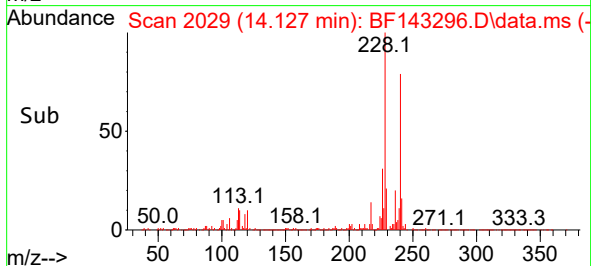
Tgt Ion:240 Resp: 272435
Ion Ratio Lower Upper
240 100
120 12.5 9.4 14.2
236 25.8 20.2 30.4

Manual Integrations

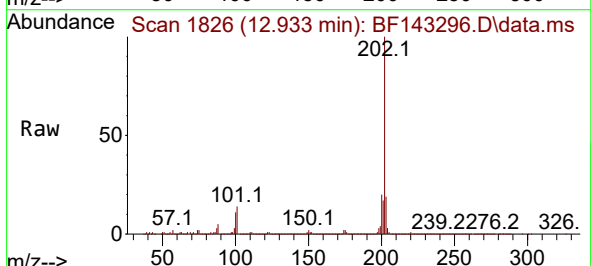
APPROVED

Reviewed By :Rahul Chavli 08/05/2025

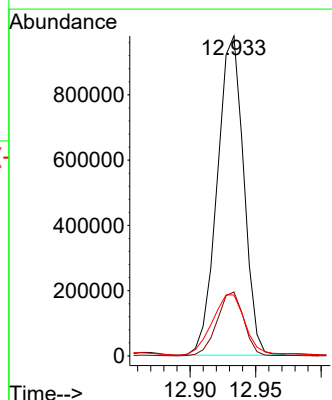
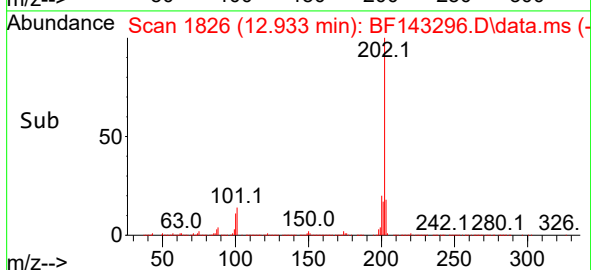
Supervised By :Jagrut Upadhyay 08/05/2025

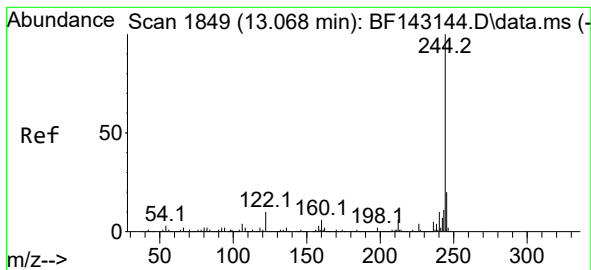


#78
Pyrene
Concen: 58.989 ng
RT: 12.933 min Scan# 1826
Delta R.T. 0.006 min
Lab File: BF143296.D
Acq: 04 Aug 2025 15:09



Tgt Ion:202 Resp: 1371551
Ion Ratio Lower Upper
202 100
200 20.0 15.7 23.5
203 19.1 14.2 21.2





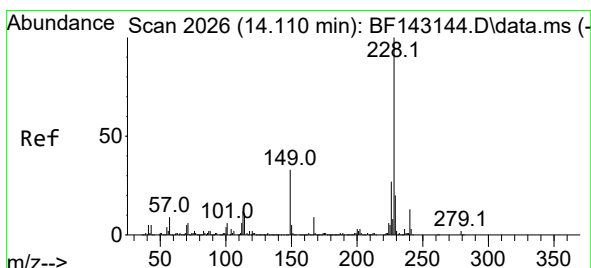
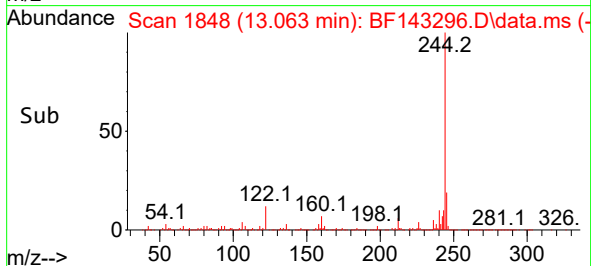
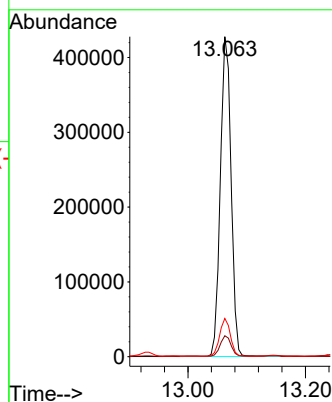
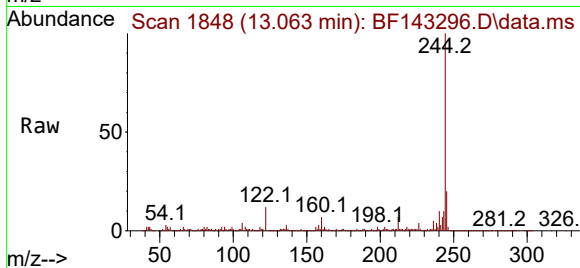
#79
Terphenyl-d14
Concen: 29.521 ng
RT: 13.063 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143296.D
Acq: 04 Aug 2025 15:09

Instrument :
BNA_F
ClientSampleId :
OR-02-07312025

Tgt Ion:244 Resp: 540450
Ion Ratio Lower Upper
244 100
212 6.6 5.2 7.8
122 12.0 8.2 12.2

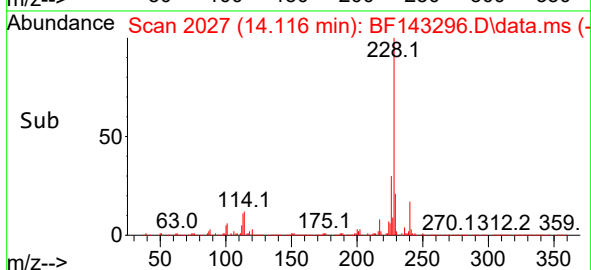
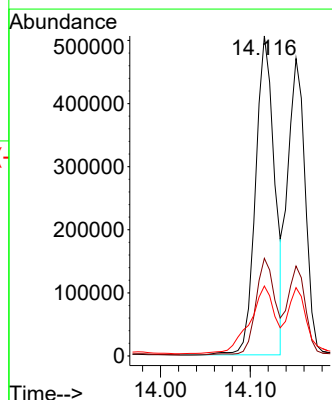
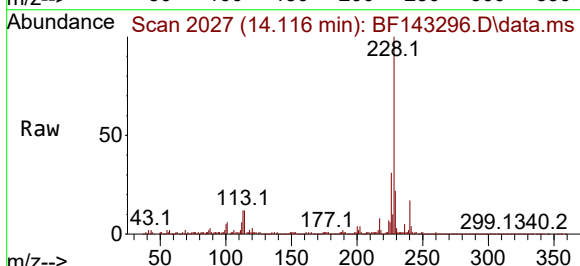
Manual Integrations
APPROVED

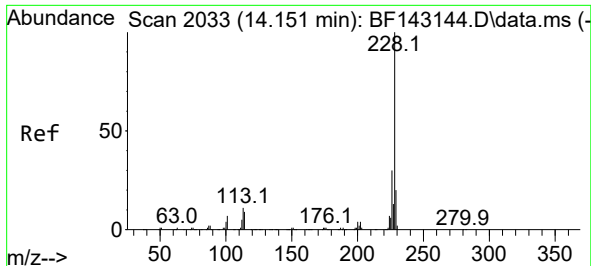
Reviewed By :Rahul Chavli 08/05/2025
Supervised By :Jagrut Upadhyay 08/05/2025



#81
Benzo(a)anthracene
Concen: 40.968 ng
RT: 14.116 min Scan# 2027
Delta R.T. 0.006 min
Lab File: BF143296.D
Acq: 04 Aug 2025 15:09

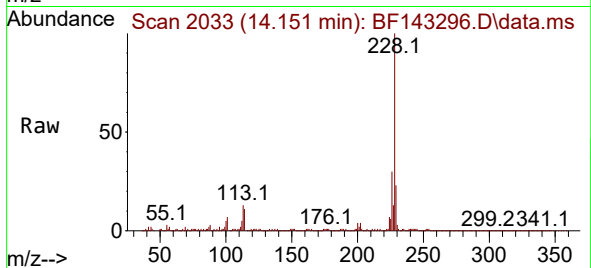
Tgt Ion:228 Resp: 747236
Ion Ratio Lower Upper
228 100
226 30.5 21.7 32.5
229 21.9 15.8 23.6





#83
Chrysene
Concen: 38.128 ng
RT: 14.151 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF143296.D
Acq: 04 Aug 2025 15:09

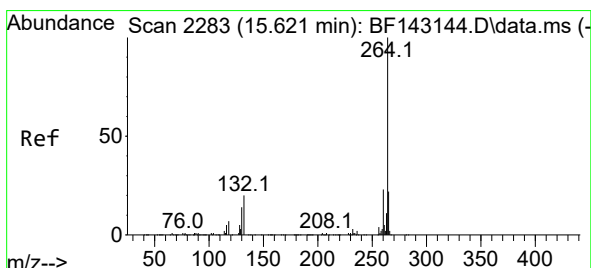
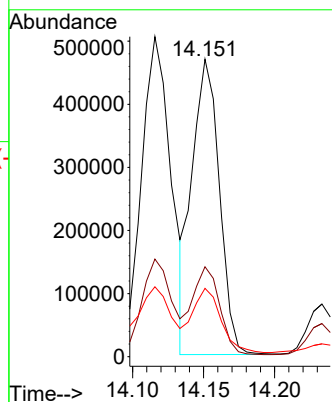
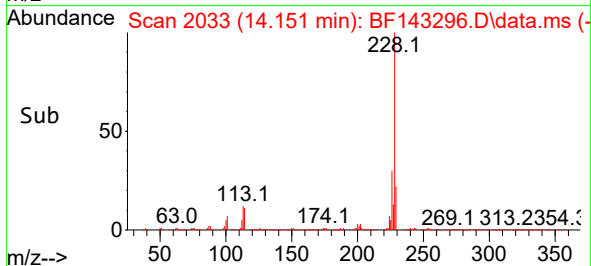
Instrument :
BNA_F
ClientSampleId :
OR-02-07312025



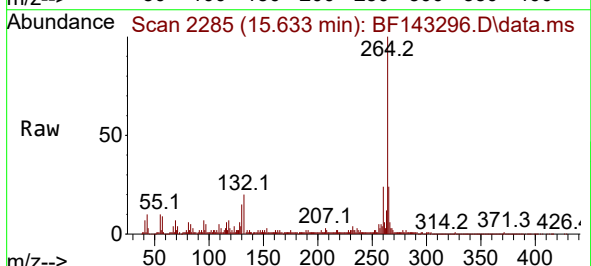
Tgt Ion:228 Resp: 625270
Ion Ratio Lower Upper
228 100
226 30.2 23.8 35.8
229 23.0 15.6 23.4

Manual Integrations
APPROVED

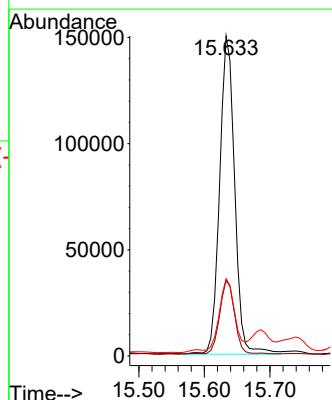
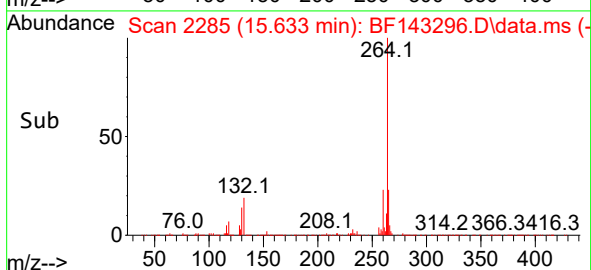
Reviewed By :Rahul Chavli 08/05/2025
Supervised By :Jagrut Upadhyay 08/05/2025

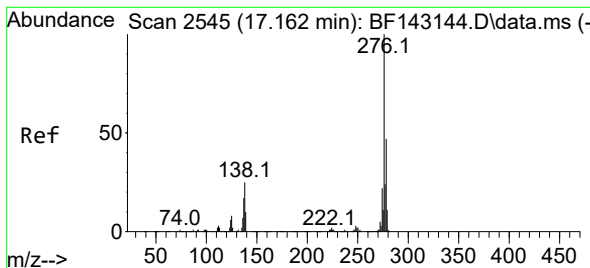


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.633 min Scan# 2285
Delta R.T. 0.012 min
Lab File: BF143296.D
Acq: 04 Aug 2025 15:09



Tgt Ion:264 Resp: 238808
Ion Ratio Lower Upper
264 100
260 23.6 18.5 27.7
265 24.1 17.4 26.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 16.631 ng

RT: 17.174 min Scan# 2110

Delta R.T. 0.012 min

Lab File: BF143296.D

Acq: 04 Aug 2025 15:09

Instrument :

BNA_F

ClientSampleId :

OR-02-07312025

Tgt Ion: 276 Resp: 28004

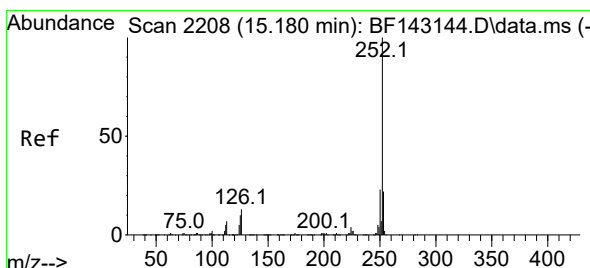
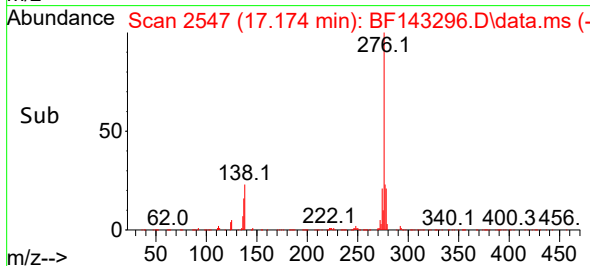
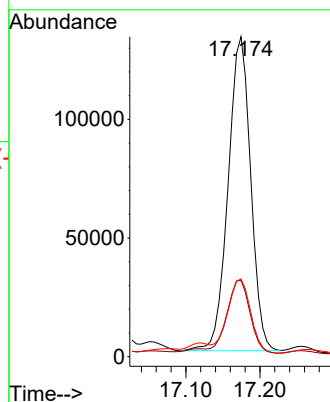
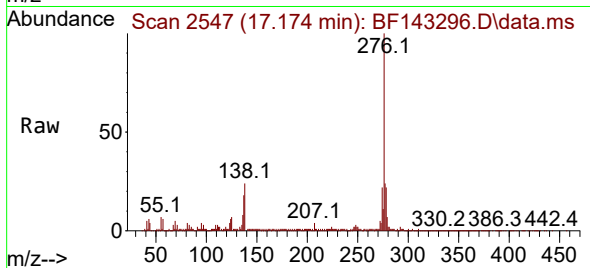
Ion	Ratio	Lower	Upper
276	100		
138	24.9	21.8	32.6
277	24.3	20.0	30.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/05/2025

Supervised By :Jagrut Upadhyay 08/05/2025



#88

Benzo(b)fluoranthene

Concen: 62.305 ng m

RT: 15.192 min Scan# 2210

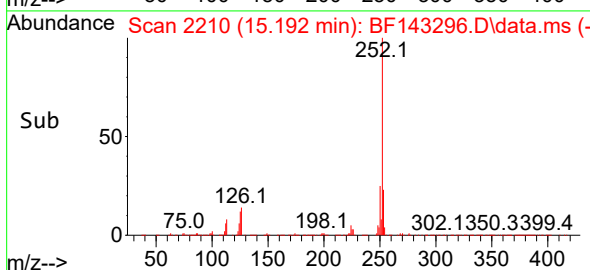
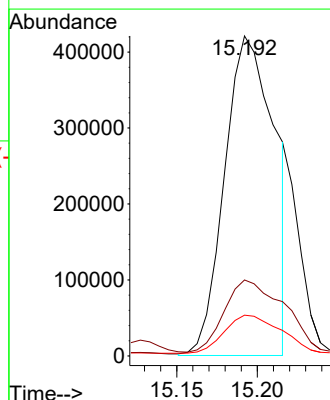
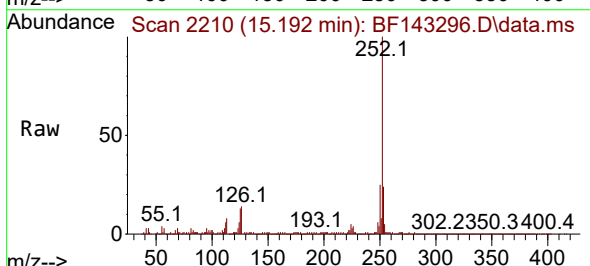
Delta R.T. 0.012 min

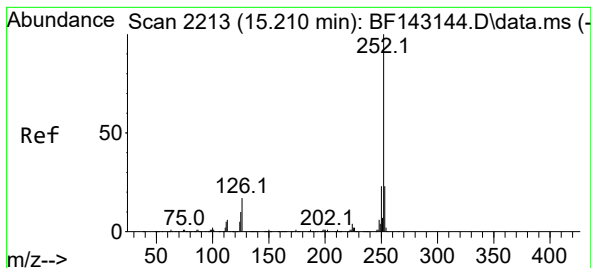
Lab File: BF143296.D

Acq: 04 Aug 2025 15:09

Tgt Ion: 252 Resp: 908967

Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.5	26.3
125	12.7	8.0	12.0





#89

Benzo(k)fluoranthene

Concen: 19.754 ng m

RT: 15.210 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF143296.D

Acq: 04 Aug 2025 15:09

Instrument :

BNA_F

ClientSampleId :

OR-02-07312025

Tgt Ion:252 Resp: 25717

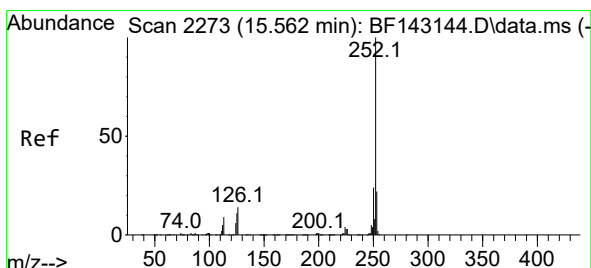
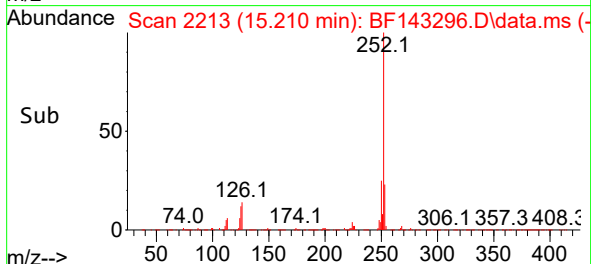
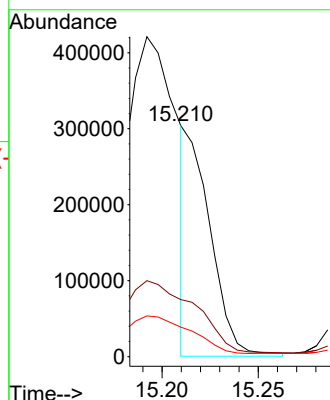
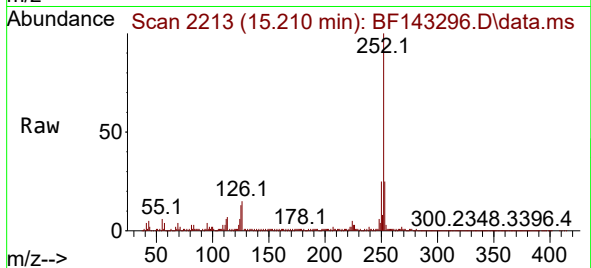
Ion	Ratio	Lower	Upper
252	100		
253	24.7	17.8	26.6
125	12.8	8.1	12.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/05/2025

Supervised By :Jagrut Upadhyay 08/05/2025



#90

Benzo(a)pyrene

Concen: 41.456 ng

RT: 15.574 min Scan# 2275

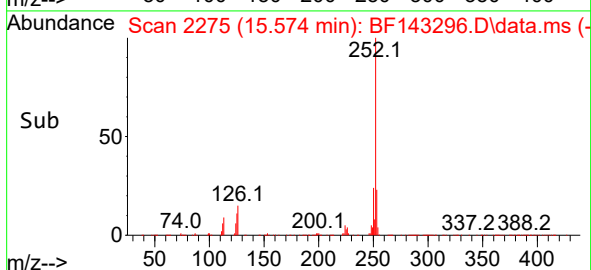
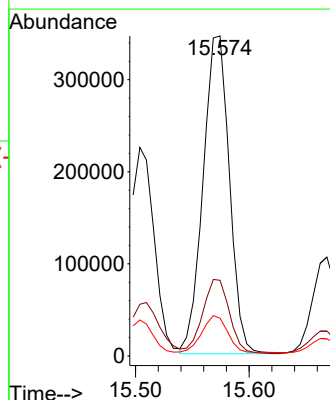
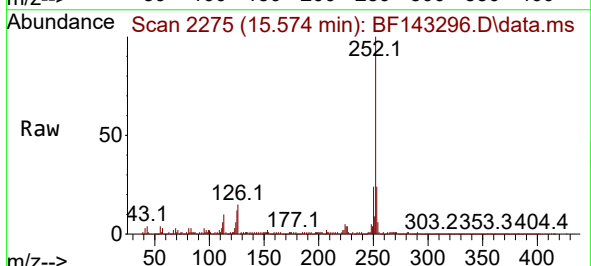
Delta R.T. 0.012 min

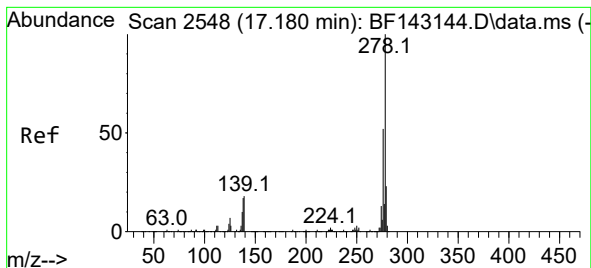
Lab File: BF143296.D

Acq: 04 Aug 2025 15:09

Tgt Ion:252 Resp: 557233

Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.3	25.9
125	11.8	8.6	13.0





#91

Dibenzo(a,h)anthracene

Concen: 4.616 ng

RT: 17.180 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF143296.D

Acq: 04 Aug 2025 15:09

Instrument :

BNA_F

ClientSampleId :

OR-02-07312025

Tgt Ion:278 Resp: 63272

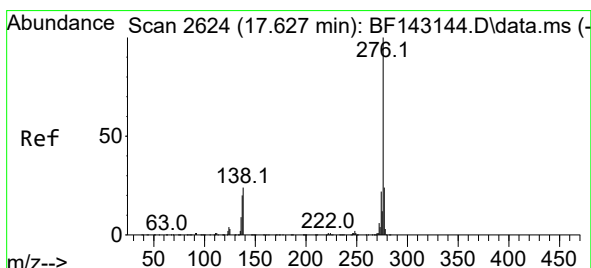
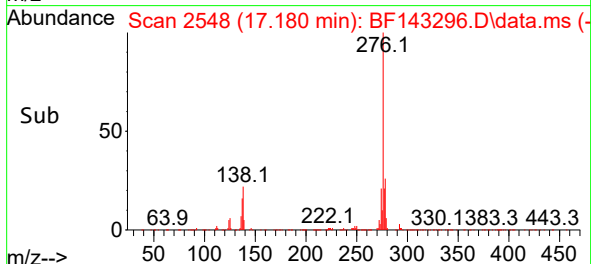
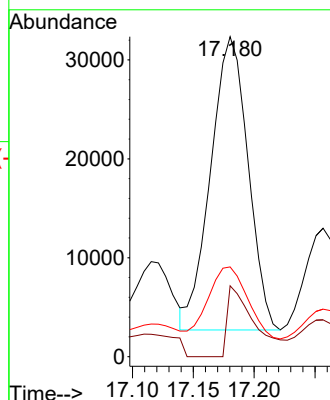
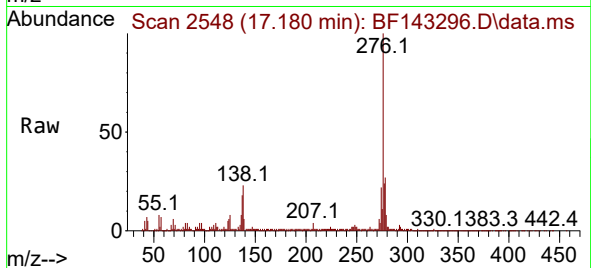
Ion	Ratio	Lower	Upper
278	100		
139	22.2	14.1	21.1
279	28.0	18.6	28.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/05/2025

Supervised By :Jagrut Upadhyay 08/05/2025



#92

Benzo(g,h,i)perylene

Concen: 20.550 ng

RT: 17.639 min Scan# 2626

Delta R.T. 0.012 min

Lab File: BF143296.D

Acq: 04 Aug 2025 15:09

Tgt Ion:276 Resp: 272451

Ion	Ratio	Lower	Upper
276	100		
277	24.1	19.1	28.7
138	25.0	18.9	28.3

