

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100825\
 Data File : BF143894.D
 Acq On : 08 Oct 2025 14:41
 Operator : RC/JU
 Sample : Q3289-03DL 2X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-261DL

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 10/09/2025
 Supervised By :Jagrut Upadhyay 10/09/2025

Quant Time: Oct 08 15:02:45 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 06 15:29:47 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	98998	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	376425	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	219724	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	382278	20.000	ng	0.00
76) Chrysene-d12	14.057	240	249079	20.000	ng	-0.01
86) Perylene-d12	15.539	264	307335	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	313034	50.213	ng	-0.01
7) Phenol-d6	6.498	99	385122	51.827	ng	-0.02
23) Nitrobenzene-d5	7.439	82	213510	34.460	ng	-0.02
42) 2,4,6-Tribromophenol	10.710	330	104967	47.963	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	419834	30.318	ng	-0.01
79) Terphenyl-d14	12.998	244	447406	30.699	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.186	128	74643	4.359	ng	99
37) 2-Methylnaphthalene	8.875	142	82565	7.239	ng	95
38) 1-Methylnaphthalene	8.975	142	50769	4.589	ng	98
46) 1,1'-Biphenyl	9.339	154	31161	2.142	ng	96
52) Acenaphthene	9.951	154	192951	17.269	ng	99
55) Dibenzofuran	10.127	168	159821	10.133	ng	98
58) Fluorene	10.469	166	220489	18.526	ng	99
71) Phenanthrene	11.439	178	1004249	54.187	ng	100
72) Anthracene	11.486	178	317289	16.947	ng	99
73) Carbazole	11.639	167	60110	3.625	ng	98
75) Fluoranthene	12.627	202	913859	47.738	ng	99
78) Pyrene	12.857	202	739044	35.590	ng	97
81) Benzo(a)anthracene	14.051	228	303540	18.622	ng	98
83) Chrysene	14.080	228	225353	14.938	ng	98
87) Indeno(1,2,3-cd)pyrene	17.027	276	70213	3.728	ng	99
88) Benzo(b)fluoranthene	15.104	252	278757m	15.790	ng	
89) Benzo(k)fluoranthene	15.121	252	100980m	6.182	ng	
90) Benzo(a)pyrene	15.474	252	159689	10.432	ng	# 97
92) Benzo(g,h,i)perylene	17.474	276	60550	3.998	ng	# 94

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

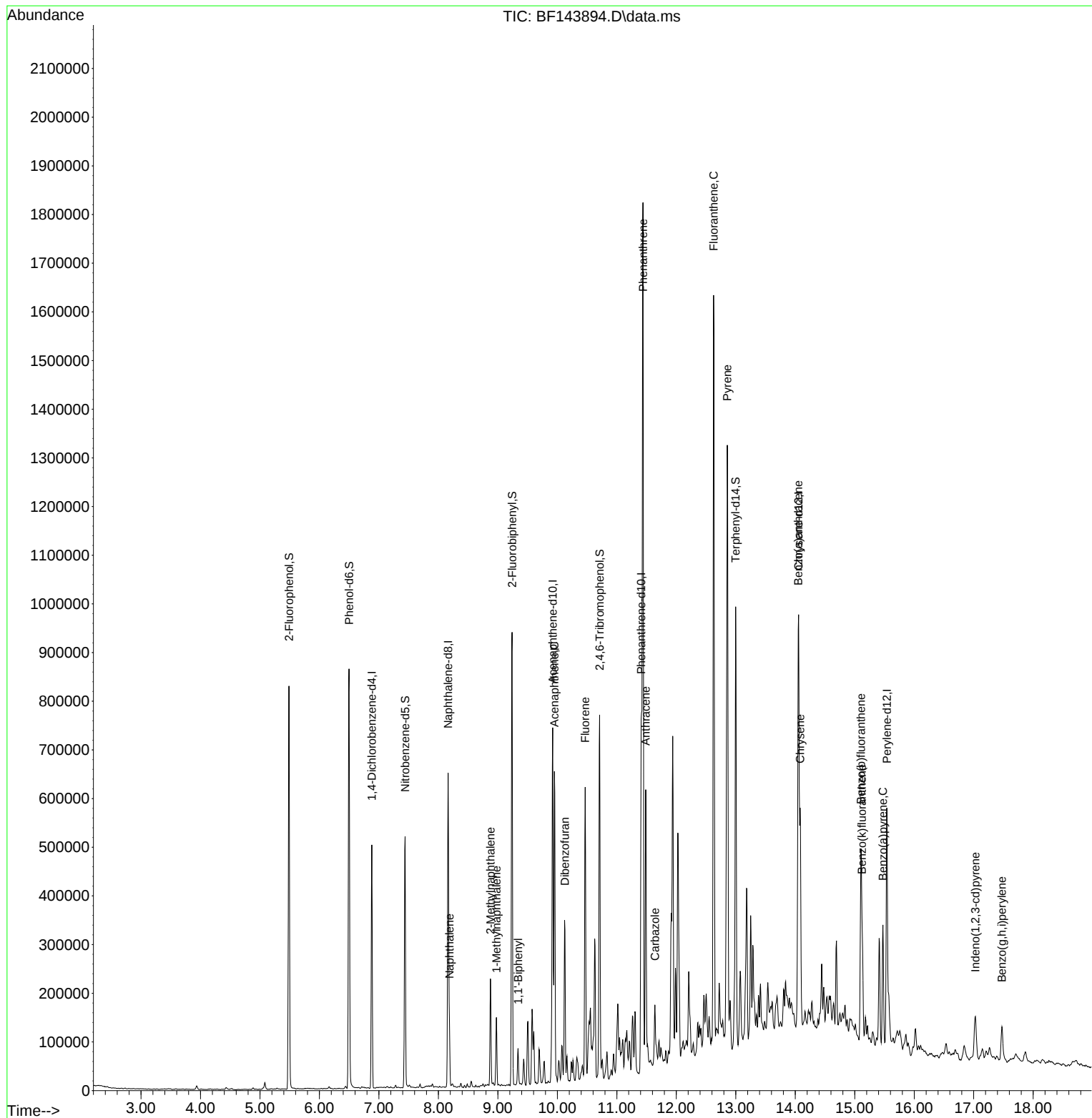
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100825\
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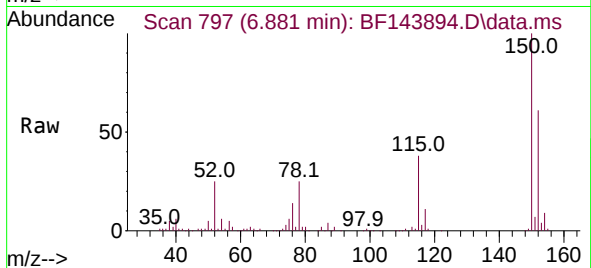
Reviewed By :Rahul Chavli 10/09/2025
Supervised By :Jagrut Upadhyay 10/09/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 79
Delta R.T. -0.005 min
Lab File: BF143894.D
Acq: 08 Oct 2025 14:41

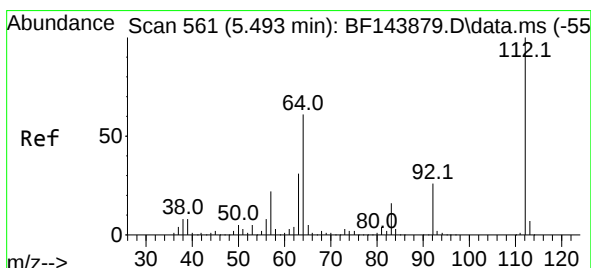
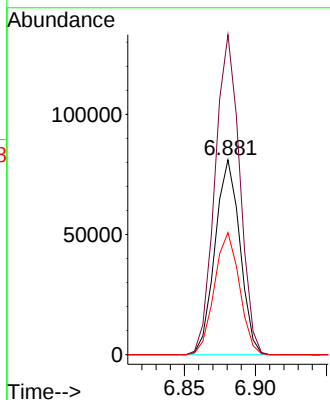
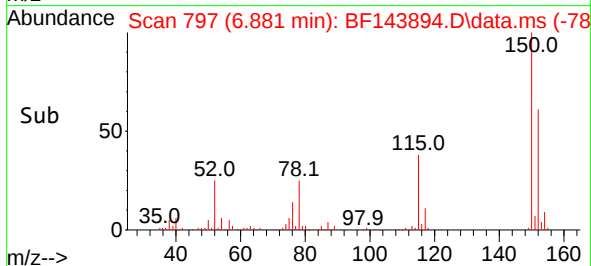
Instrument :
BNA_F
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VNJ-261DL



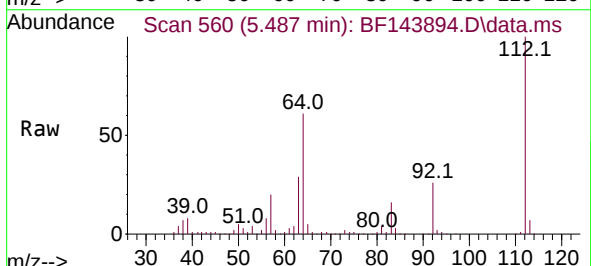
Tgt Ion:152 Resp: 98998
Ion Ratio Lower Upper
152 100
150 164.2 124.4 186.6
115 62.6 48.1 72.1

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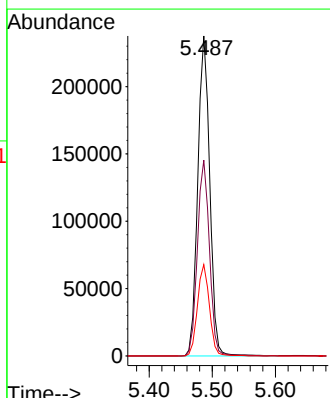
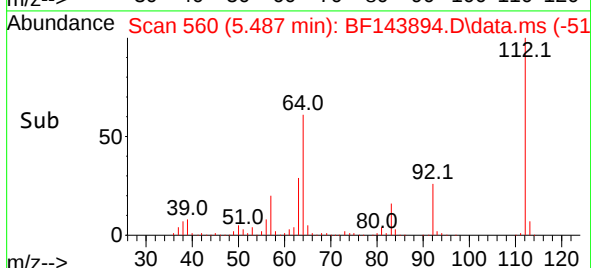
Reviewed By :Rahul Chavli 10/09/2025
Supervised By :Jagrut Upadhyay 10/09/2025



#5
2-Fluorophenol
Concen: 50.213 ng
RT: 5.487 min Scan# 560
Delta R.T. -0.012 min
Lab File: BF143894.D
Acq: 08 Oct 2025 14:41



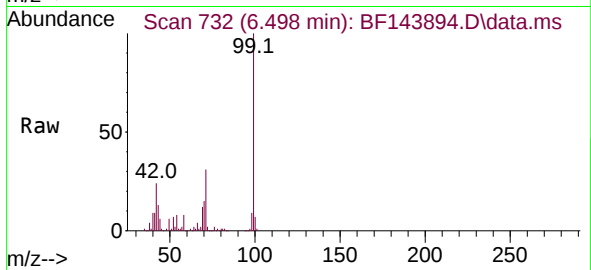
Tgt Ion:112 Resp: 313034
Ion Ratio Lower Upper
112 100
64 61.2 49.1 73.7
63 28.5 24.5 36.7





#7
Phenol-d6
Concen: 51.827 ng
RT: 6.498 min Scan# 733
Delta R.T. -0.018 min
Lab File: BF143894.D
Acq: 08 Oct 2025 14:41

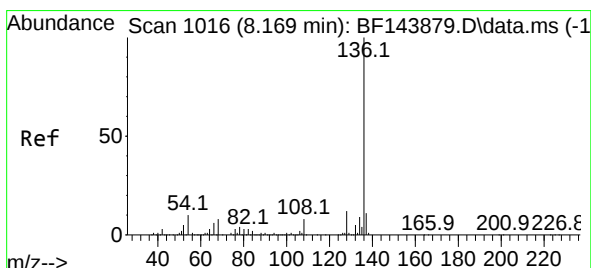
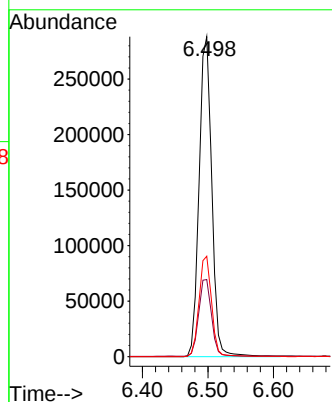
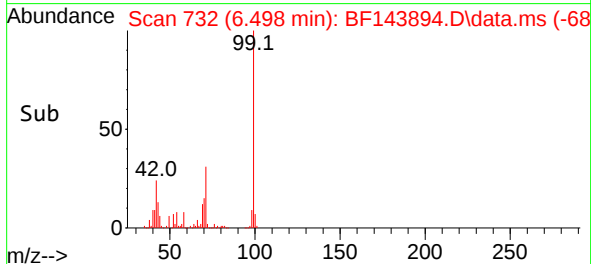
Instrument :
BNA_F
ClientSampleId :
VNJ-261DL



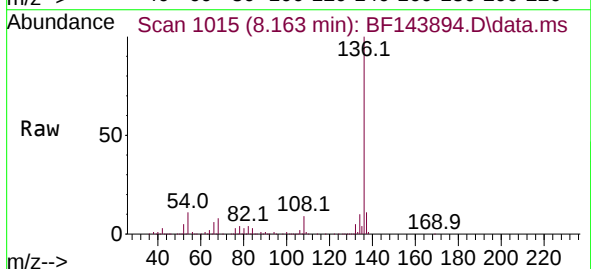
Tgt Ion: 99 Resp: 385122
Ion Ratio Lower Upper
99 100
42 24.1 21.0 31.4
71 31.4 27.8 41.8

Manual Integrations
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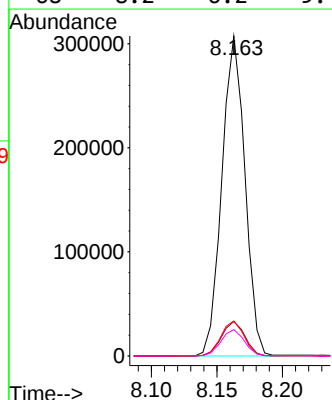
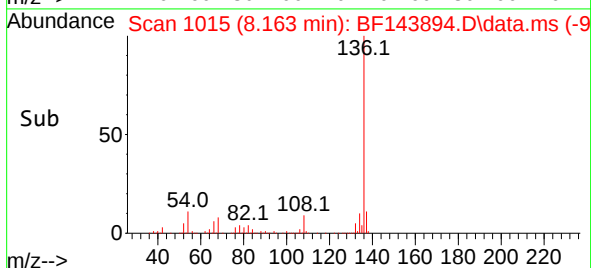
Reviewed By :Rahul Chavli 10/09/2025
Supervised By :Jagrut Upadhyay 10/09/2025

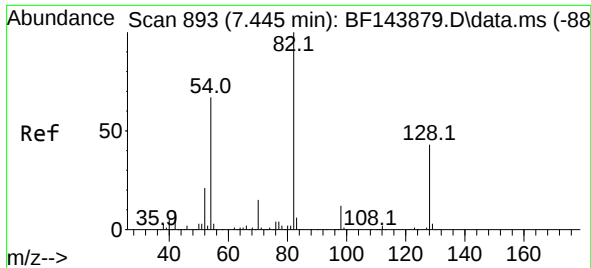


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF143894.D
Acq: 08 Oct 2025 14:41



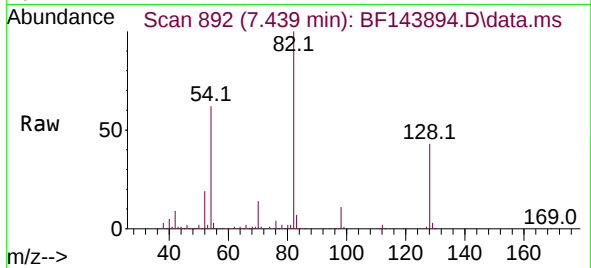
Tgt Ion:136 Resp: 376425
Ion Ratio Lower Upper
136 100
137 10.8 8.5 12.7
54 10.9 8.2 12.4
68 8.2 6.2 9.4





#23
Nitrobenzene-d5
Concen: 34.460 ng
RT: 7.439 min Scan# 893
Delta R.T. -0.018 min
Lab File: BF143894.D
Acq: 08 Oct 2025 14:41

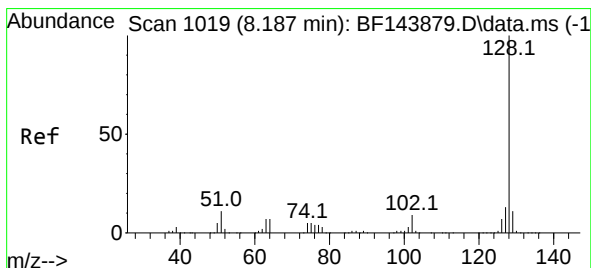
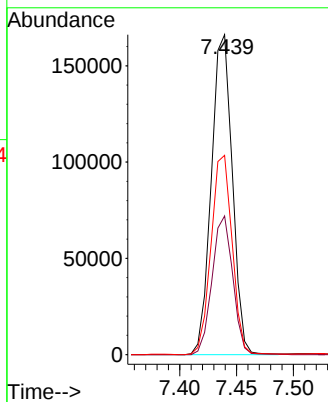
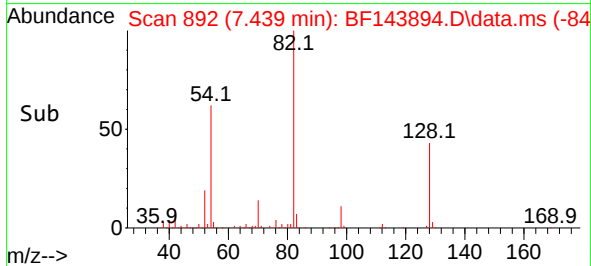
Instrument :
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ClientSampleId :
VNJ-261DL



Tgt Ion: 82 Resp: 213510
Ion Ratio Lower Upper
82 100
128 43.3 34.0 51.0
54 62.3 53.2 79.8

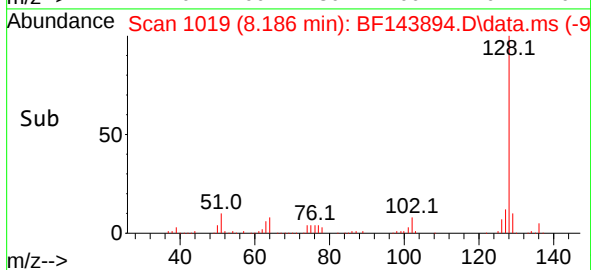
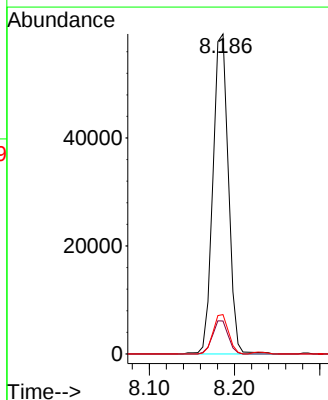
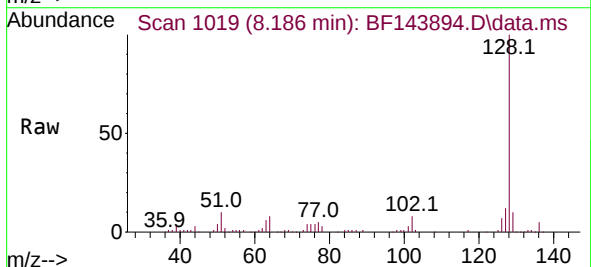
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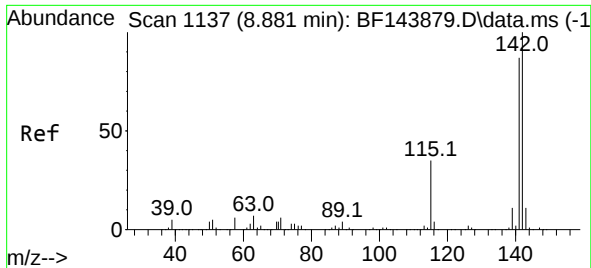
Reviewed By :Rahul Chavli 10/09/2025
Supervised By :Jagrut Upadhyay 10/09/2025



#31
Naphthalene
Concen: 4.359 ng
RT: 8.186 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF143894.D
Acq: 08 Oct 2025 14:41

Tgt Ion:128 Resp: 74643
Ion Ratio Lower Upper
128 100
129 10.3 8.7 13.1
127 12.3 10.0 15.0





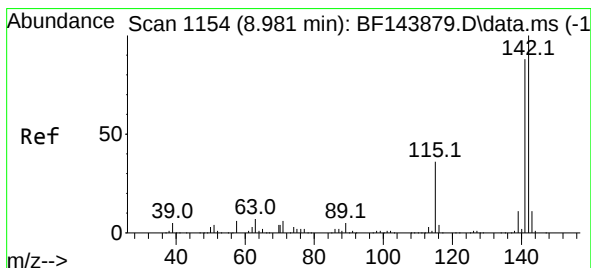
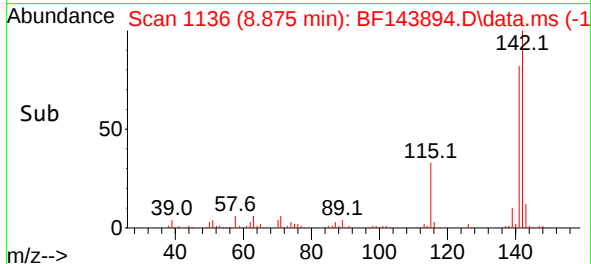
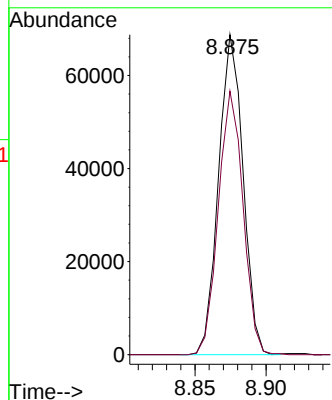
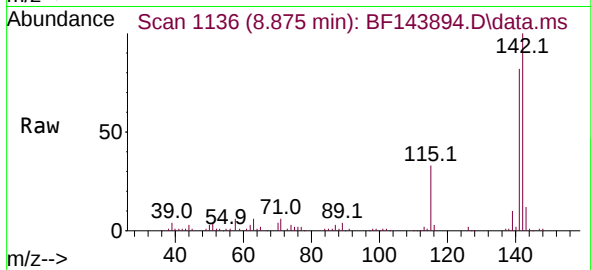
#37
2-Methylnaphthalene
Concen: 7.239 ng
RT: 8.875 min Scan# 1136
Delta R.T. -0.012 min
Lab File: BF143894.D
Acq: 08 Oct 2025 14:41

Instrument :
BNA_F
ClientSampleId :
VNJ-261DL

Tgt Ion:142 Resp: 82569
Ion Ratio Lower Upper
142 100
141 82.3 69.2 103.8

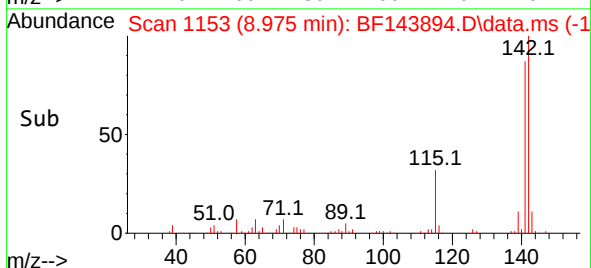
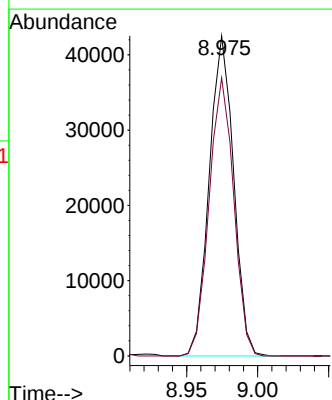
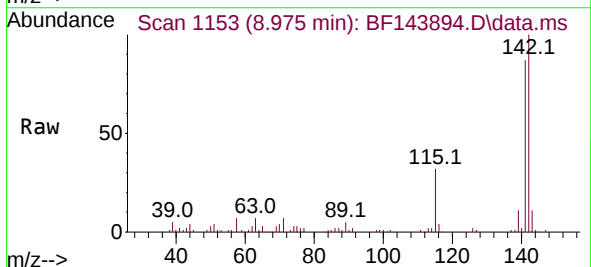
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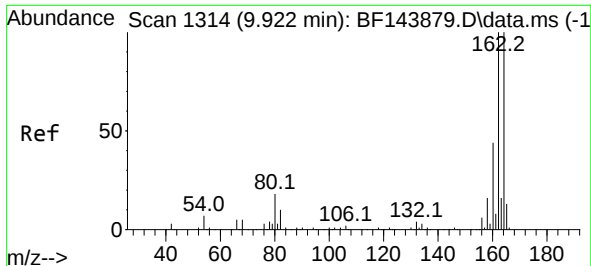
Reviewed By :Rahul Chavli 10/09/2025
Supervised By :Jagrut Upadhyay 10/09/2025



#38
1-Methylnaphthalene
Concen: 4.589 ng
RT: 8.975 min Scan# 1153
Delta R.T. -0.011 min
Lab File: BF143894.D
Acq: 08 Oct 2025 14:41

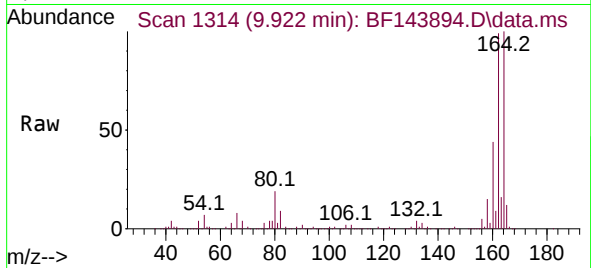
Tgt Ion:142 Resp: 50769
Ion Ratio Lower Upper
142 100
141 86.9 70.8 106.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BF143894.D
Acq: 08 Oct 2025 14:41

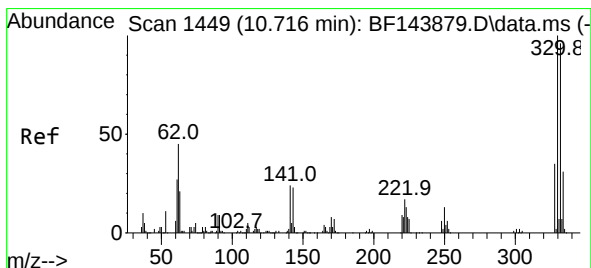
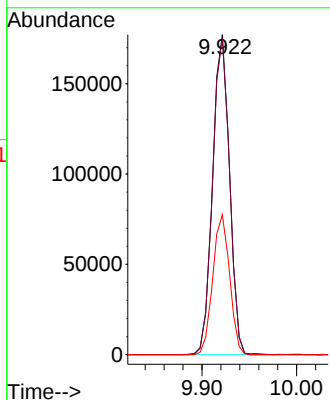
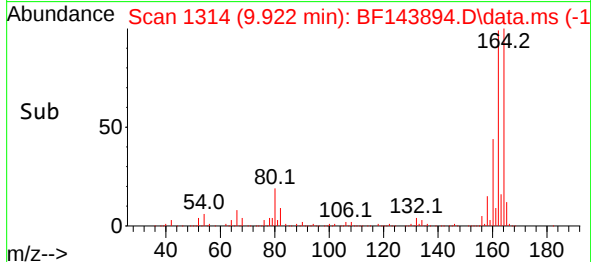
Instrument :
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VNJ-261DL



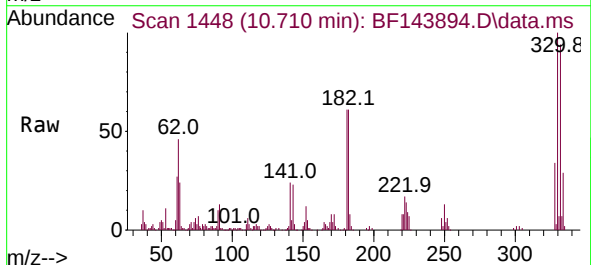
Tgt Ion:164 Resp: 219724
Ion Ratio Lower Upper
164 100
162 99.0 80.2 120.2
160 43.7 35.4 53.0

Manual Integrations
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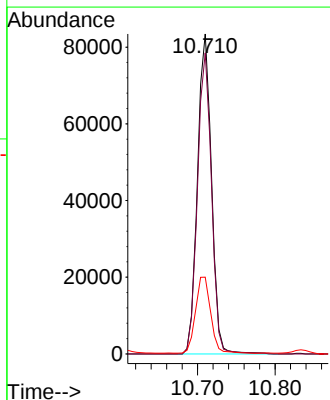
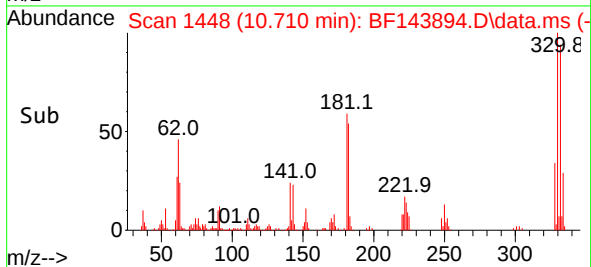
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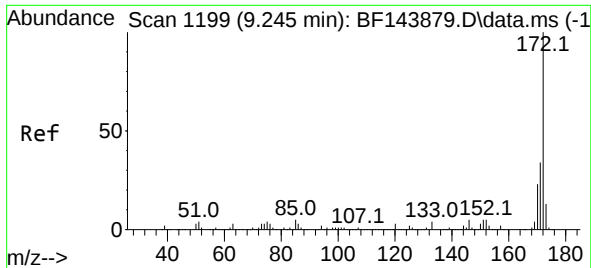


#42
2,4,6-Tribromophenol
Concen: 47.963 ng
RT: 10.710 min Scan# 1448
Delta R.T. -0.012 min
Lab File: BF143894.D
Acq: 08 Oct 2025 14:41



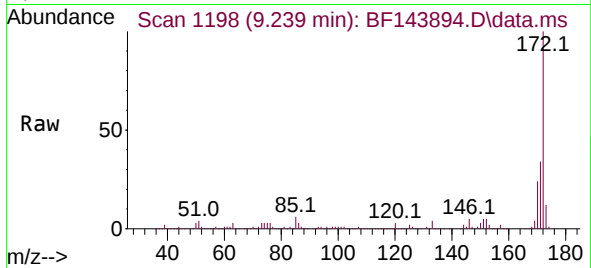
Tgt Ion:330 Resp: 104967
Ion Ratio Lower Upper
330 100
332 94.1 76.9 115.3
141 25.8 20.2 30.4





#45
2-Fluorobiphenyl
Concen: 30.318 ng
RT: 9.239 min Scan# 1198
Delta R.T. -0.012 min
Lab File: BF143894.D
Acq: 08 Oct 2025 14:41

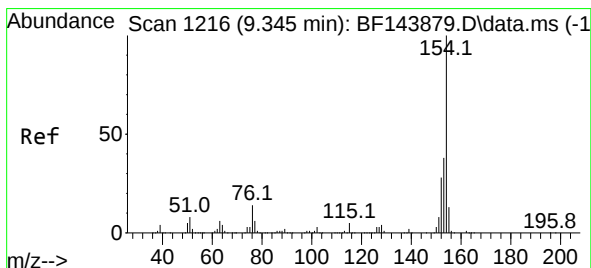
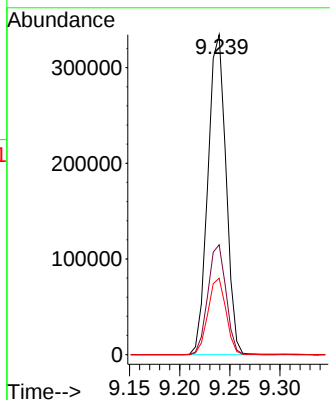
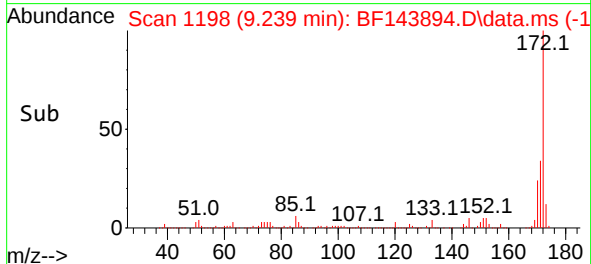
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VNJ-261DL



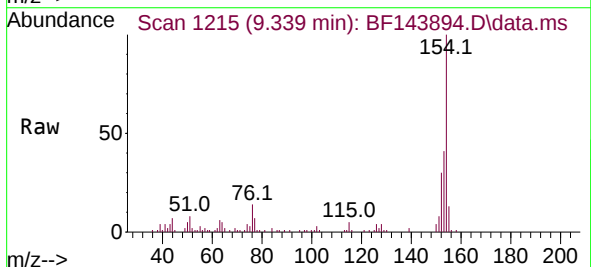
Tgt Ion:172 Resp: 419834
Ion Ratio Lower Upper
172 100
171 34.3 27.4 41.0
170 23.9 18.6 28.0

Manual Integrations
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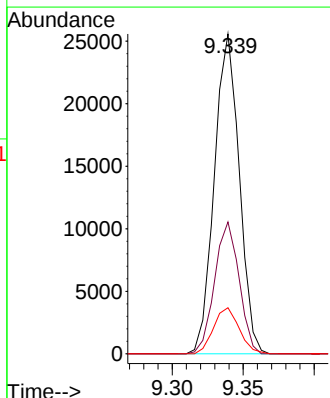
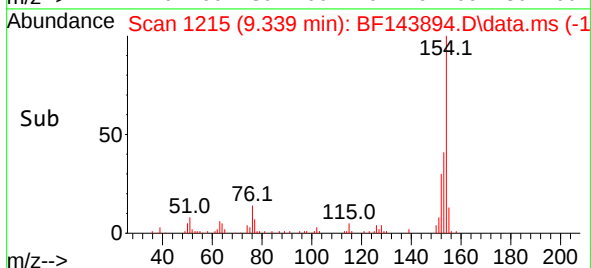
Reviewed By :Rahul Chavli 10/09/2025
Supervised By :Jagrut Upadhyay 10/09/2025

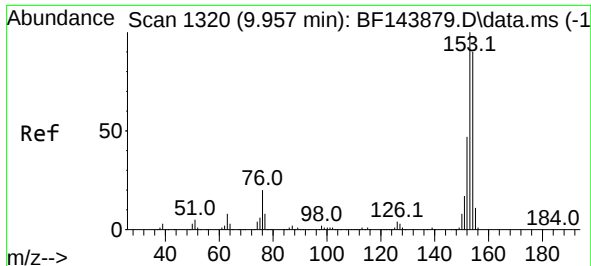


#46
1,1'-Biphenyl
Concen: 2.142 ng
RT: 9.339 min Scan# 1215
Delta R.T. -0.012 min
Lab File: BF143894.D
Acq: 08 Oct 2025 14:41



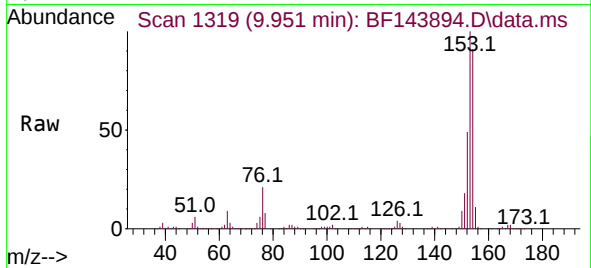
Tgt Ion:154 Resp: 31161
Ion Ratio Lower Upper
154 100
153 41.2 18.4 58.4
76 14.4 0.0 34.0





#52
Acenaphthene
Concen: 17.269 ng
RT: 9.951 min Scan# 1319
Delta R.T. -0.012 min
Lab File: BF143894.D
Acq: 08 Oct 2025 14:41

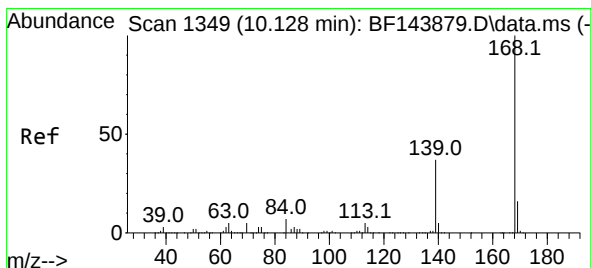
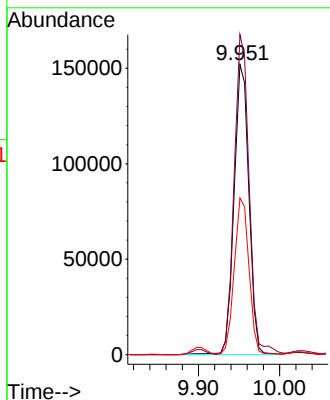
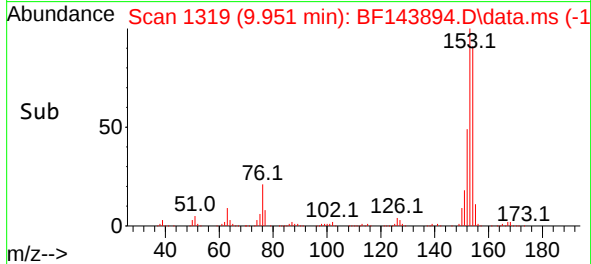
Instrument :
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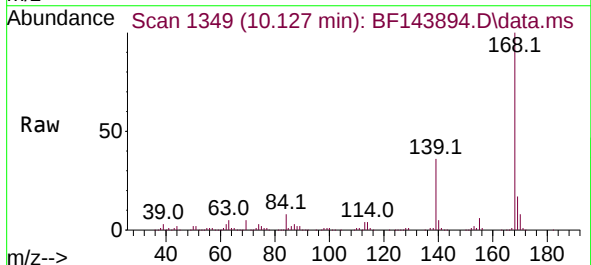
Tgt Ion:154 Resp: 19295
Ion Ratio Lower Upper
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153 110.3 89.3 133.9
152 53.9 42.2 63.2

Manual Integrations
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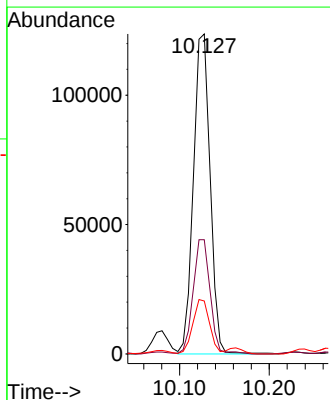
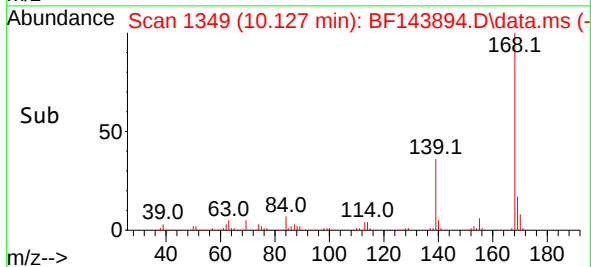
Reviewed By :Rahul Chavli 10/09/2025
Supervised By :Jagrut Upadhyay 10/09/2025

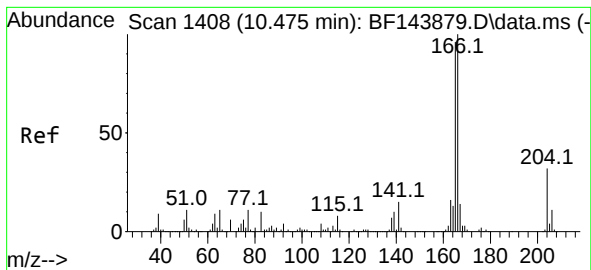


#55
Dibenzofuran
Concen: 10.133 ng
RT: 10.127 min Scan# 1349
Delta R.T. -0.006 min
Lab File: BF143894.D
Acq: 08 Oct 2025 14:41



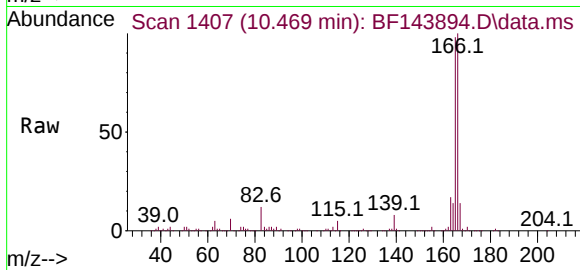
Tgt Ion:168 Resp: 159821
Ion Ratio Lower Upper
168 100
139 35.7 29.8 44.8
169 16.5 12.8 19.2





#58
Fluorene
Concen: 18.526 ng
RT: 10.469 min Scan# 1407
Delta R.T. -0.012 min
Lab File: BF143894.D
Acq: 08 Oct 2025 14:41

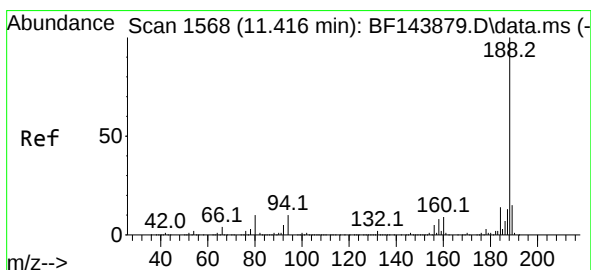
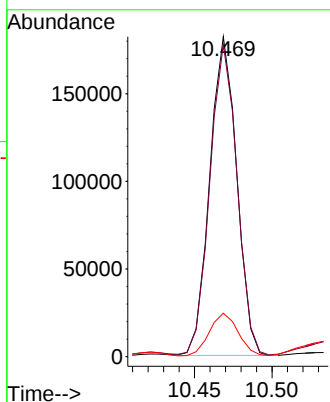
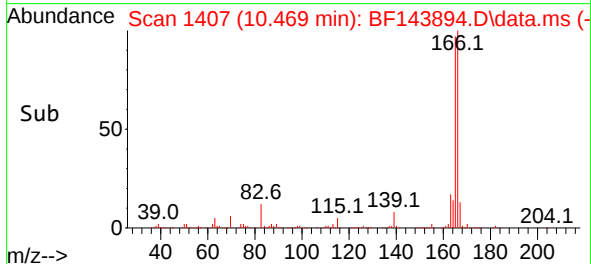
Instrument :
BNA_F
ClientSampleId :
VNJ-261DL



Tgt Ion:166 Resp: 220489
Ion Ratio Lower Upper
166 100
165 97.5 77.0 115.6
167 13.6 11.1 16.7

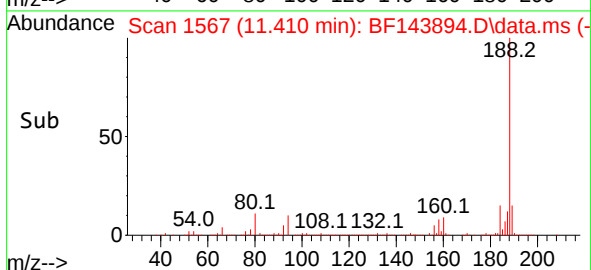
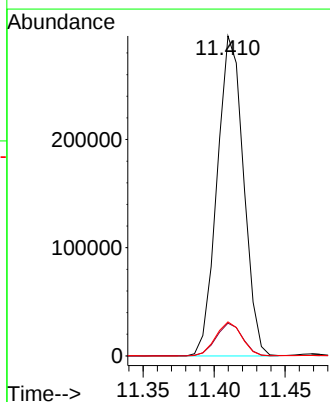
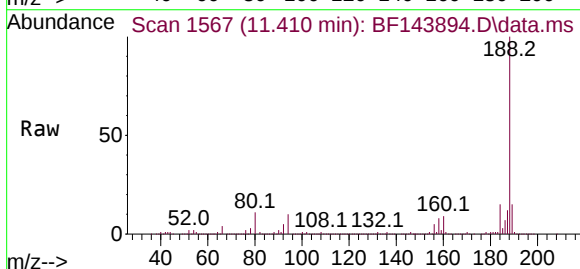
Manual Integrations
APPROVED

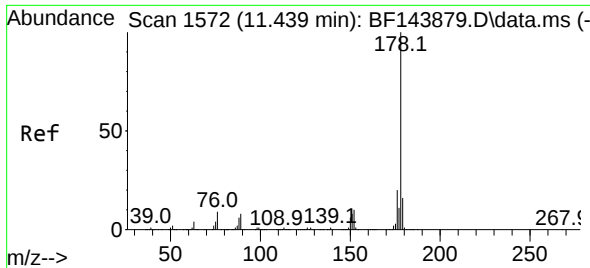
Reviewed By :Rahul Chavli 10/09/2025
Supervised By :Jagrut Upadhyay 10/09/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF143894.D
Acq: 08 Oct 2025 14:41

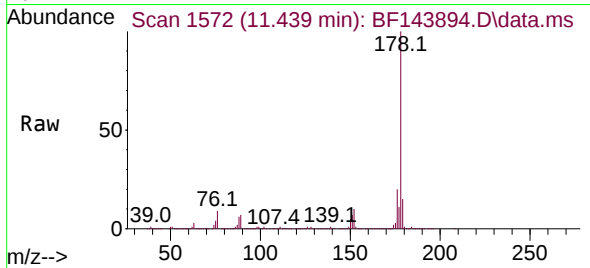
Tgt Ion:188 Resp: 382278
Ion Ratio Lower Upper
188 100
94 10.2 7.8 11.6
80 10.6 7.9 11.9





#71
Phenanthrene
Concen: 54.187 ng
RT: 11.439 min Scan# 1143
Delta R.T. -0.006 min
Lab File: BF143894.D
Acq: 08 Oct 2025 14:41

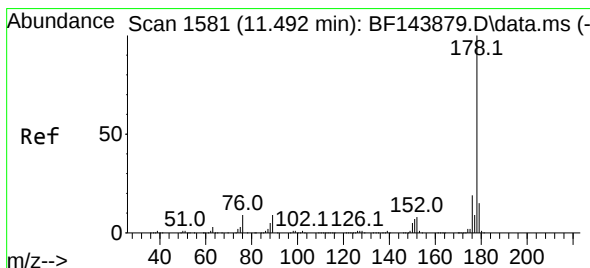
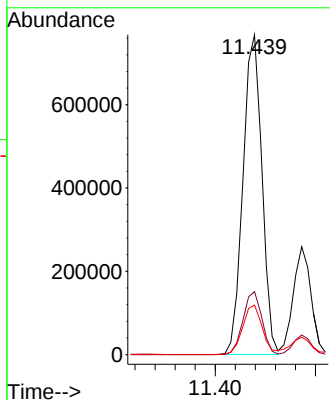
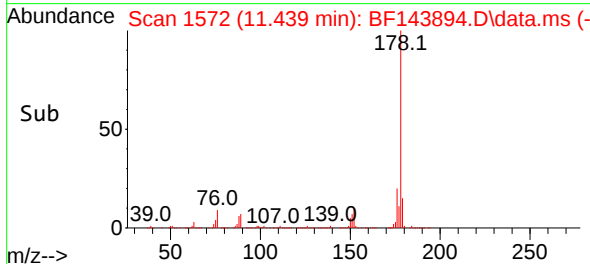
Instrument :
BNA_F
ClientSampleId :
VNJ-261DL



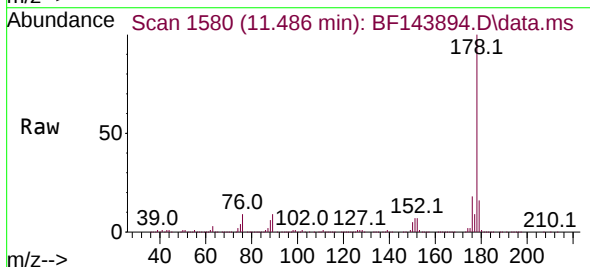
Tgt Ion:178 Resp: 1004249
Ion Ratio Lower Upper
178 100
176 19.7 15.9 23.9
179 15.5 12.4 18.6

Manual Integrations
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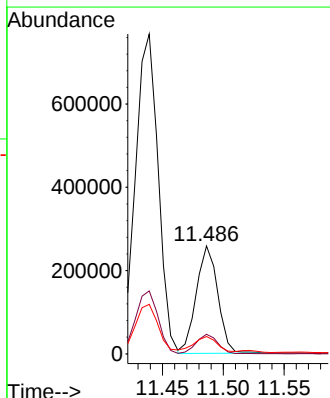
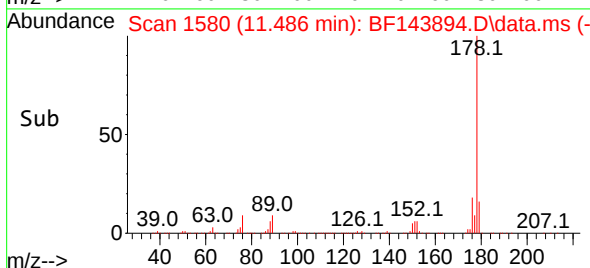
Reviewed By :Rahul Chavli 10/09/2025
Supervised By :Jagrut Upadhyay 10/09/2025

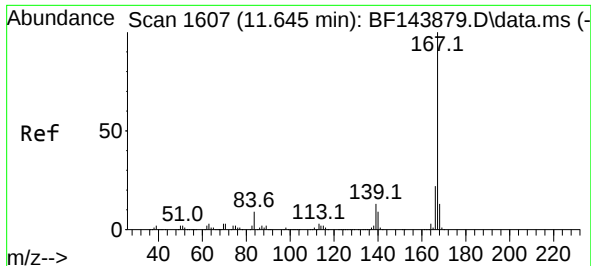


#72
Anthracene
Concen: 16.947 ng
RT: 11.486 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BF143894.D
Acq: 08 Oct 2025 14:41



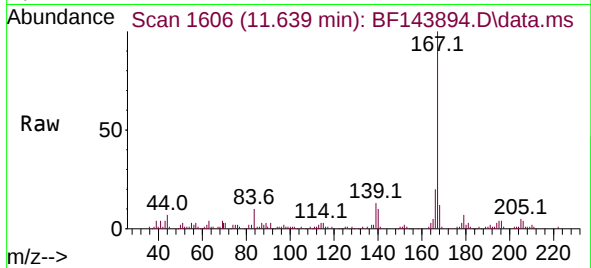
Tgt Ion:178 Resp: 317289
Ion Ratio Lower Upper
178 100
176 18.2 14.9 22.3
179 16.2 12.2 18.2





#73
 Carbazole
 Concen: 3.625 ng
 RT: 11.639 min Scan# 1606
 Delta R.T. -0.012 min
 Lab File: BF143894.D
 Acq: 08 Oct 2025 14:41

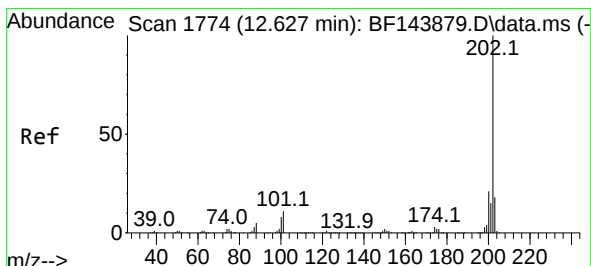
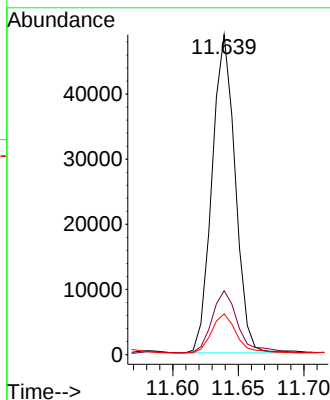
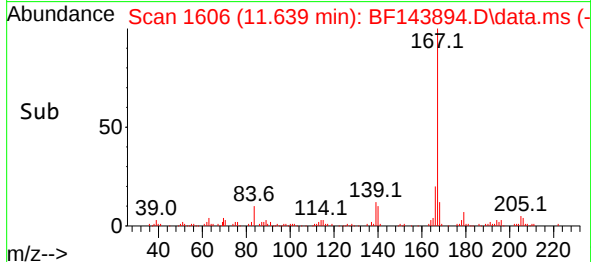
Instrument :
 BNA_F
 ClientSampleId :
 VNJ-261DL



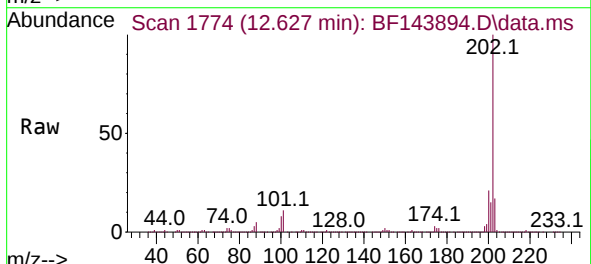
Tgt Ion:167 Resp: 60110
 Ion Ratio Lower Upper
 167 100
 166 20.0 17.2 25.8
 139 12.7 10.1 15.1

Manual Integrations
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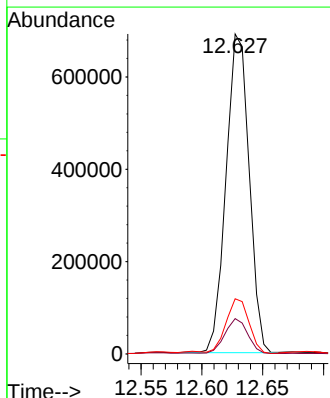
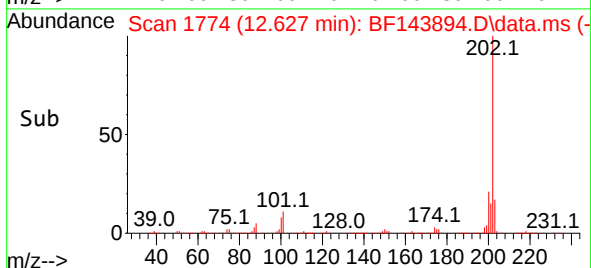
Reviewed By :Rahul Chavli 10/09/2025
 Supervised By :Jagrut Upadhyay 10/09/2025

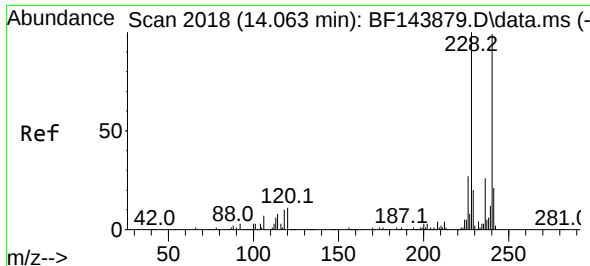


#75
 Fluoranthene
 Concen: 47.738 ng
 RT: 12.627 min Scan# 1774
 Delta R.T. -0.006 min
 Lab File: BF143894.D
 Acq: 08 Oct 2025 14:41



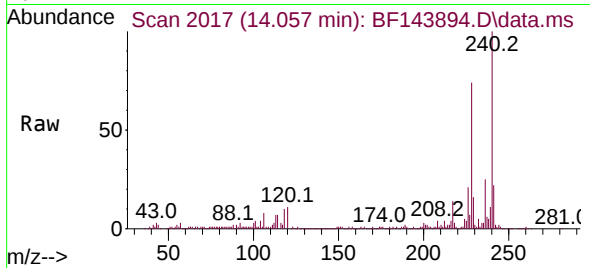
Tgt Ion:202 Resp: 913859
 Ion Ratio Lower Upper
 202 100
 101 11.0 0.0 30.7
 203 17.2 0.0 37.8





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.011 min
Lab File: BF143894.D
Acq: 08 Oct 2025 14:41

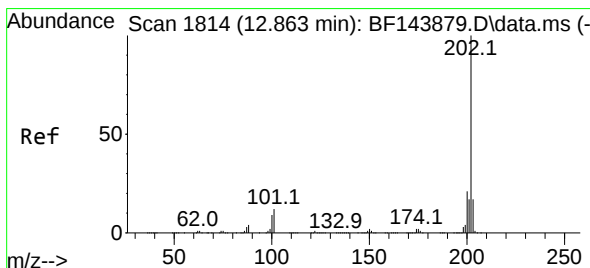
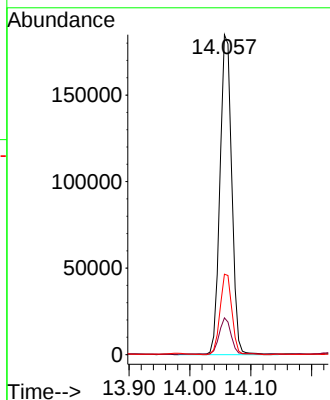
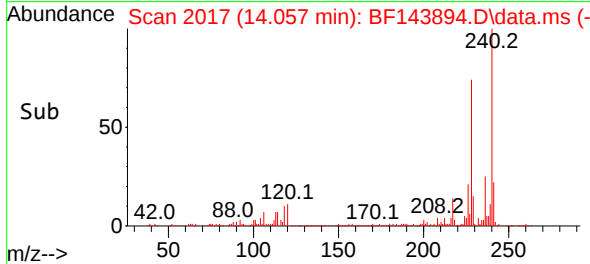
Instrument :
BNA_F
ClientSampleId :
VNJ-261DL



Tgt Ion:240 Resp: 249079
Ion Ratio Lower Upper
240 100
120 11.5 8.6 13.0
236 25.1 21.1 31.7

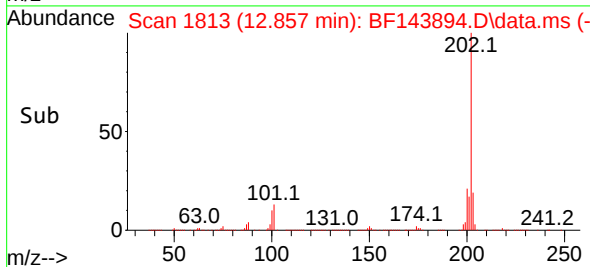
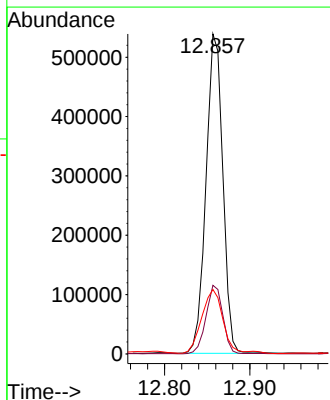
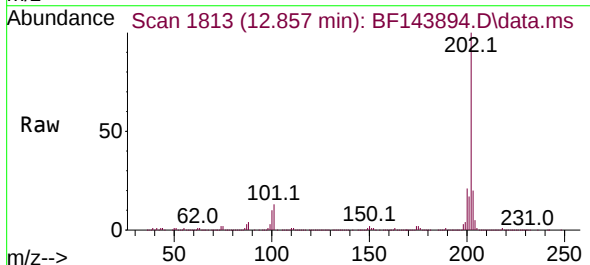
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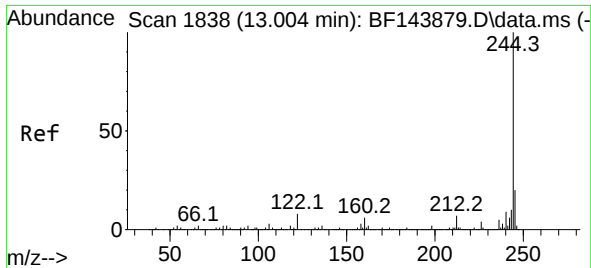
Reviewed By :Rahul Chavli 10/09/2025
Supervised By :Jagrut Upadhyay 10/09/2025



#78
Pyrene
Concen: 35.590 ng
RT: 12.857 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BF143894.D
Acq: 08 Oct 2025 14:41

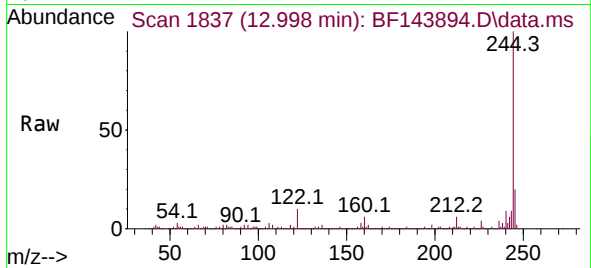
Tgt Ion:202 Resp: 739044
Ion Ratio Lower Upper
202 100
200 21.4 17.0 25.6
203 20.2 13.8 20.6





#79
 Terphenyl-d14
 Concen: 30.699 ng
 RT: 12.998 min Scan# 1838
 Delta R.T. -0.012 min
 Lab File: BF143894.D
 Acq: 08 Oct 2025 14:41

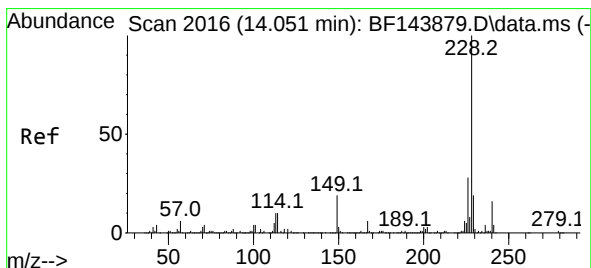
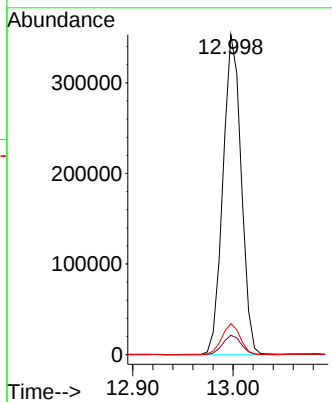
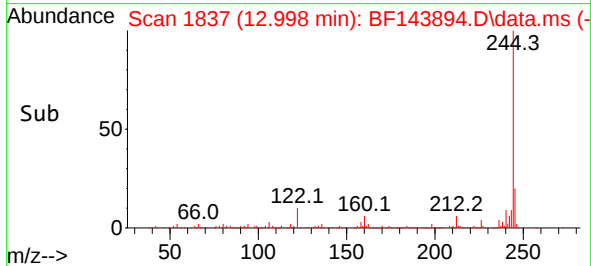
Instrument :
 BNA_F
 ClientSampleId :
 VNJ-261DL



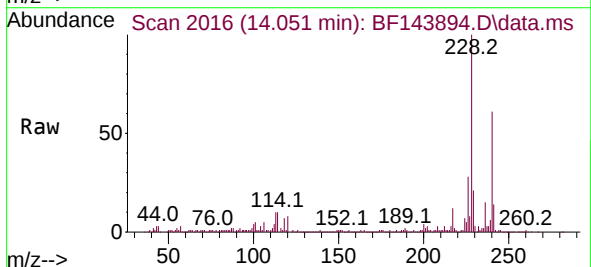
Tgt Ion:244 Resp: 447406
 Ion Ratio Lower Upper
 244 100
 212 6.1 5.4 8.0
 122 9.7 6.4 9.6

Manual Integrations
 APPROVED

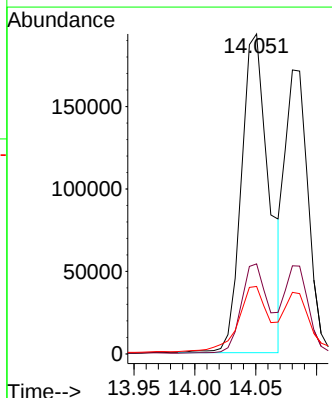
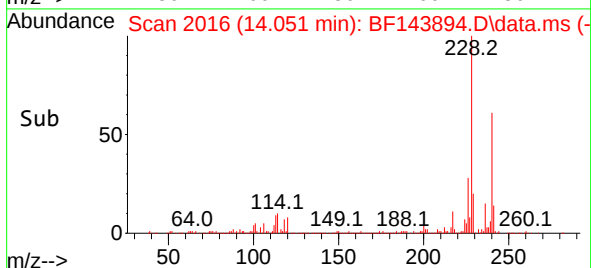
Reviewed By :Rahul Chavli 10/09/2025
 Supervised By :Jagrut Upadhyay 10/09/2025

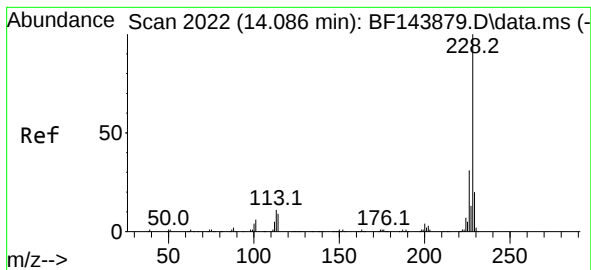


#81
 Benzo(a)anthracene
 Concen: 18.622 ng
 RT: 14.051 min Scan# 2016
 Delta R.T. -0.006 min
 Lab File: BF143894.D
 Acq: 08 Oct 2025 14:41



Tgt Ion:228 Resp: 303540
 Ion Ratio Lower Upper
 228 100
 226 28.1 22.2 33.2
 229 21.1 15.6 23.4





#83

Chrysene

Concen: 14.938 ng

RT: 14.080 min Scan# 2022

Delta R.T. -0.012 min

Lab File: BF143894.D

Acq: 08 Oct 2025 14:41

Instrument :

BNA_F

ClientSampleId :

VNJ-261DL

Tgt Ion:228 Resp: 225353

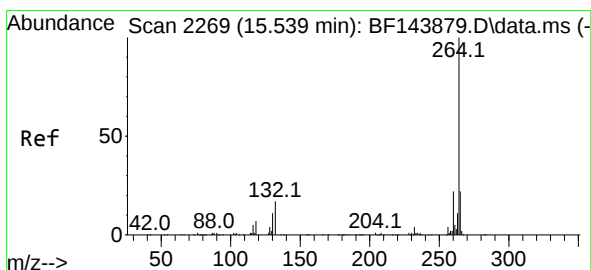
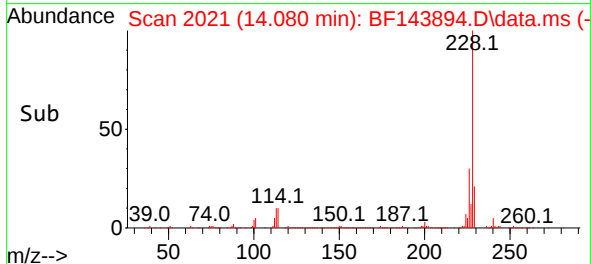
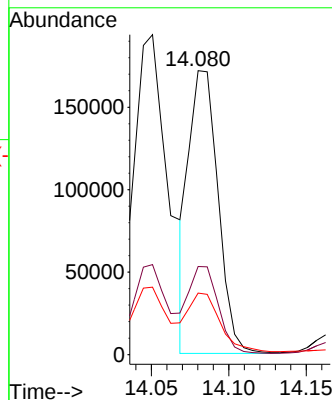
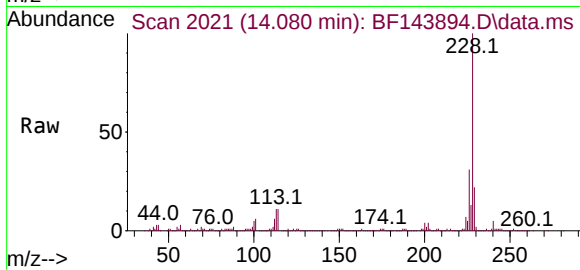
Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.4	36.6
229	21.7	15.9	23.9

Manual Integrations

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Reviewed By :Rahul Chavli 10/09/2025

Supervised By :Jagrut Upadhyay 10/09/2025



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.539 min Scan# 2269

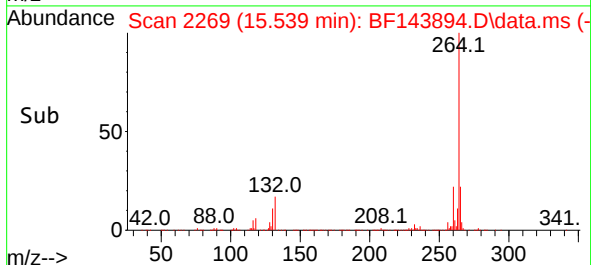
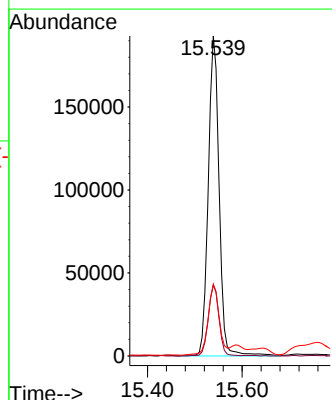
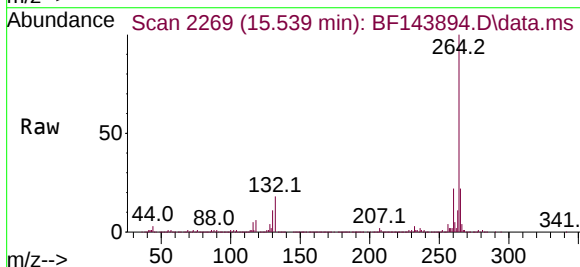
Delta R.T. -0.006 min

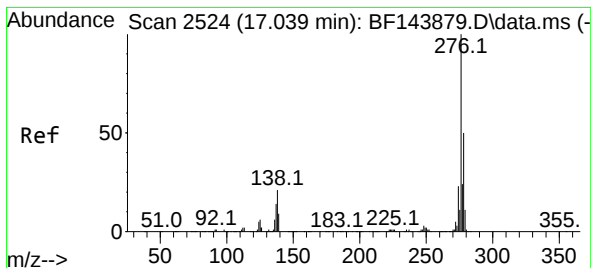
Lab File: BF143894.D

Acq: 08 Oct 2025 14:41

Tgt Ion:264 Resp: 307335

Ion	Ratio	Lower	Upper
264	100		
260	22.1	17.8	26.8
265	22.5	17.5	26.3





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.728 ng

RT: 17.027 min Scan# 21

Delta R.T. -0.029 min

Lab File: BF143894.D

Acq: 08 Oct 2025 14:41

Instrument :

BNA_F

ClientSampleId :

VNJ-261DL

Tgt Ion:276 Resp: 70213

Ion Ratio Lower Upper

276 100

138 23.3 18.2 27.2

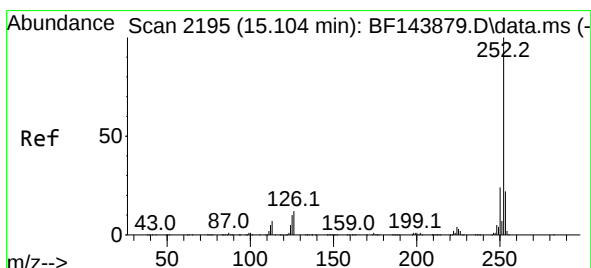
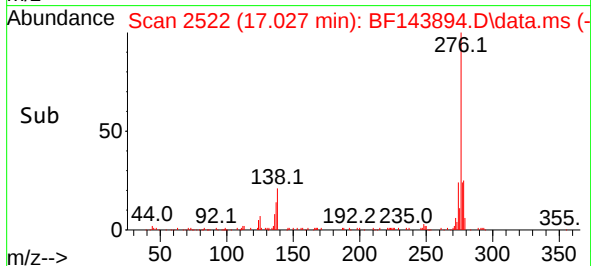
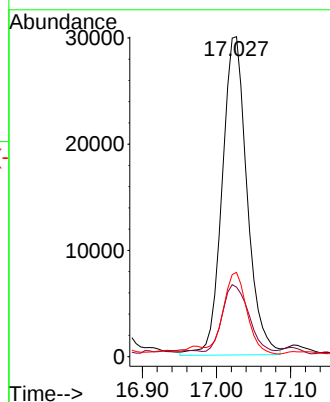
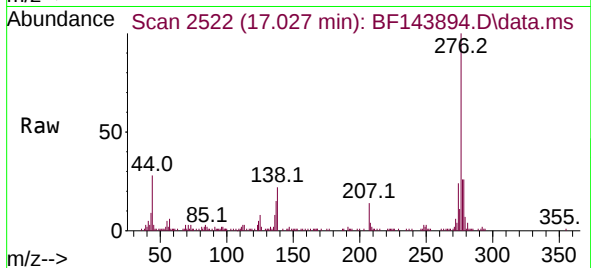
277 24.1 19.8 29.6

Manual Integrations

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Reviewed By :Rahul Chavli 10/09/2025

Supervised By :Jagrut Upadhyay 10/09/2025



#88

Benzo(b)fluoranthene

Concen: 15.790 ng m

RT: 15.104 min Scan# 2195

Delta R.T. -0.012 min

Lab File: BF143894.D

Acq: 08 Oct 2025 14:41

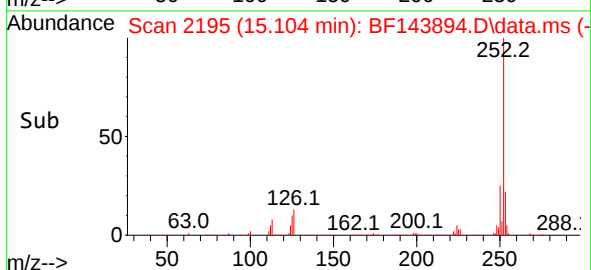
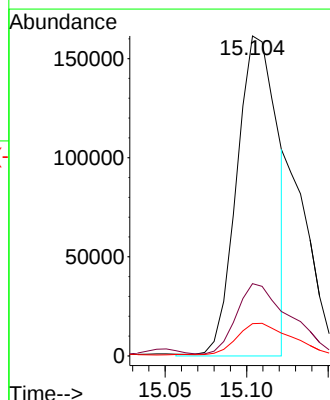
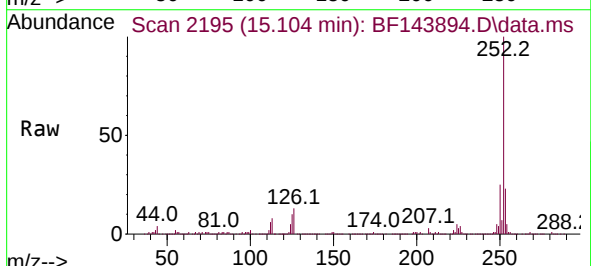
Tgt Ion:252 Resp: 278757

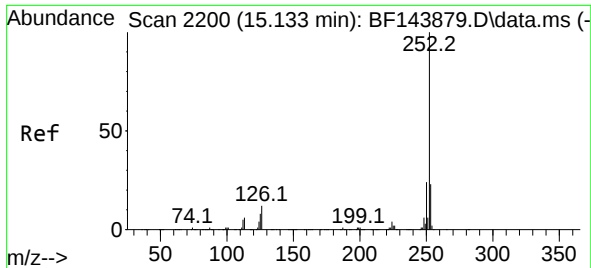
Ion Ratio Lower Upper

252 100

253 22.6 17.4 26.2

125 10.1 7.8 11.6





#89

Benzo(k)fluoranthene

Concen: 6.182 ng m

RT: 15.121 min Scan# 21

Delta R.T. -0.024 min

Lab File: BF143894.D

Acq: 08 Oct 2025 14:41

Instrument :

BNA_F

ClientSampleId :

VNJ-261DL

Tgt Ion:252 Resp: 100980

Ion Ratio Lower Upper

252 100

253 21.5 17.8 26.8

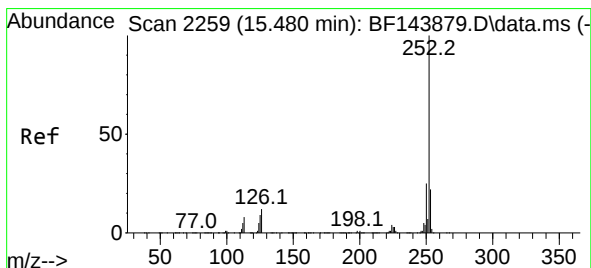
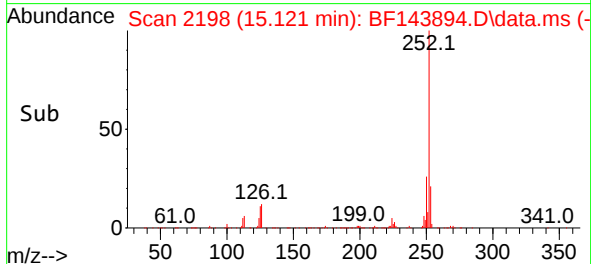
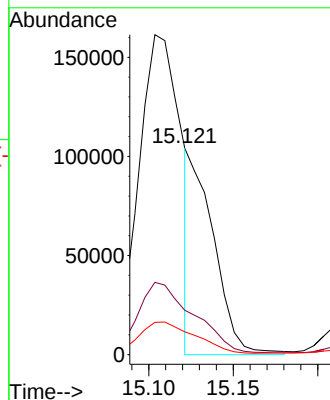
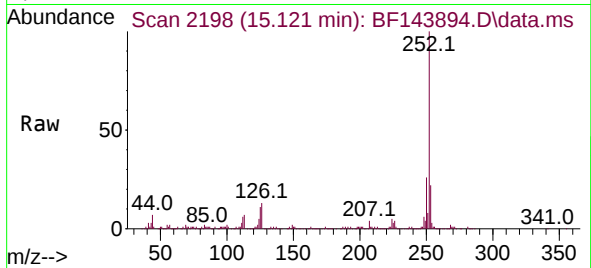
125 11.0 7.4 11.2

Manual Integrations

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Reviewed By :Rahul Chavli 10/09/2025

Supervised By :Jagrut Upadhyay 10/09/2025



#90

Benzo(a)pyrene

Concen: 10.432 ng

RT: 15.474 min Scan# 2258

Delta R.T. -0.012 min

Lab File: BF143894.D

Acq: 08 Oct 2025 14:41

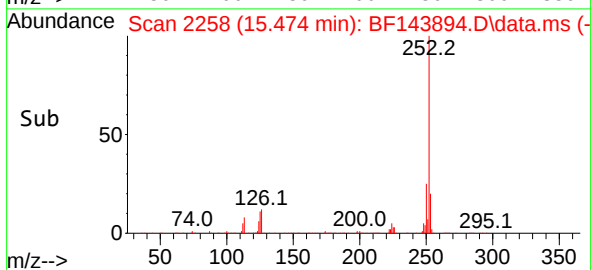
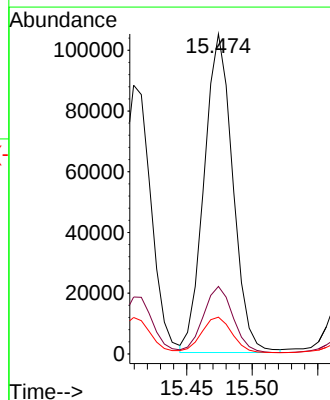
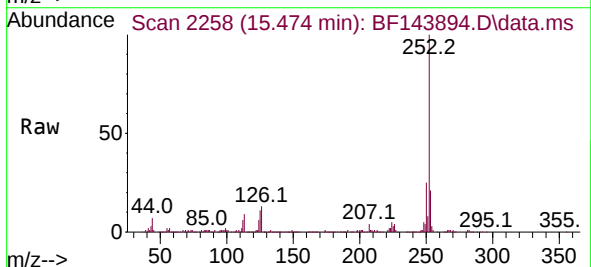
Tgt Ion:252 Resp: 159689

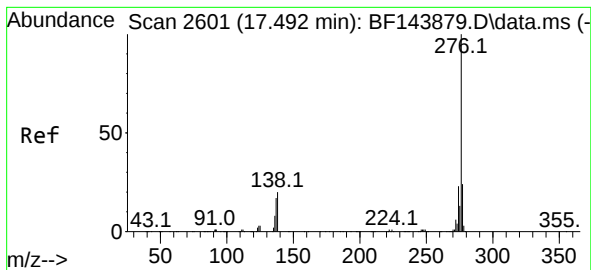
Ion Ratio Lower Upper

252 100

253 21.1 17.3 25.9

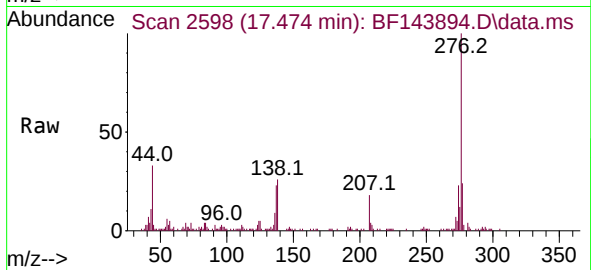
125 11.5 7.0 10.4#





#92
 Benzo(g,h,i)perylene
 Concen: 3.998 ng
 RT: 17.474 min Scan# 2598
 Delta R.T. -0.041 min
 Lab File: BF143894.D
 Acq: 08 Oct 2025 14:41

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-261DL



Tgt Ion: 276 Resp: 60550

Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.0	28.6
138	26.0	16.1	24.1

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 10/09/2025
 Supervised By :Jagrut Upadhyay 10/09/2025

