

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120225\
 Data File : BF144401.D
 Acq On : 02 Dec 2025 14:21
 Operator : RC/JU
 Sample : Q3742-01
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-1125-23

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 12/03/2025
 Supervised By :Sohil Jodhani 12/03/2025

Quant Time: Dec 02 14:48:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 05 18:37:33 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.863	152	48990	20.000	ng	-0.01
21) Naphthalene-d8	8.145	136	188700	20.000	ng	-0.01
39) Acenaphthene-d10	9.898	164	105045	20.000	ng	-0.02
64) Phenanthrene-d10	11.392	188	174584	20.000	ng	-0.01
76) Chrysene-d12	14.045	240	109456	20.000	ng	0.00
86) Perylene-d12	15.527	264	151141	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	243682	77.839	ng	0.00
7) Phenol-d6	6.498	99	282581	79.663	ng	0.00
23) Nitrobenzene-d5	7.422	82	173911	53.229	ng	-0.01
42) 2,4,6-Tribromophenol	10.692	330	97311	73.822	ng	-0.01
45) 2-Fluorobiphenyl	9.216	172	378690	53.244	ng	-0.01
79) Terphenyl-d14	12.980	244	313734	45.528	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.163	128	49102	5.470	ng	99
37) 2-Methylnaphthalene	8.857	142	25152	4.191	ng	99
38) 1-Methylnaphthalene	8.957	142	21231	3.666	ng	99
52) Acenaphthene	9.933	154	29025	5.092	ng	99
55) Dibenzofuran	10.104	168	40937	5.128	ng	97
58) Fluorene	10.451	166	50278	8.284	ng	98
71) Phenanthrene	11.422	178	464618	53.452	ng	100
72) Anthracene	11.469	178	123155	13.934	ng	98
73) Carbazole	11.627	167	33124	4.407	ng	98
75) Fluoranthene	12.610	202	310882	34.623	ng	98
78) Pyrene	12.839	202	281489	31.896	ng	98
81) Benzo(a)anthracene	14.033	228	143358	18.897	ng	97
83) Chrysene	14.068	228	120652	17.229	ng	96
87) Indeno(1,2,3-cd)pyrene	17.027	276	55200	5.088	ng	97
88) Benzo(b)fluoranthene	15.092	252	133315m	15.515	ng	
89) Benzo(k)fluoranthene	15.110	252	41781m	5.195	ng	
90) Benzo(a)pyrene	15.462	252	104982	13.243	ng	96
91) Dibenzo(a,h)anthracene	17.027	278	17611	2.021	ng	# 81
92) Benzo(g,h,i)perylene	17.480	276	50569	5.877	ng	96

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

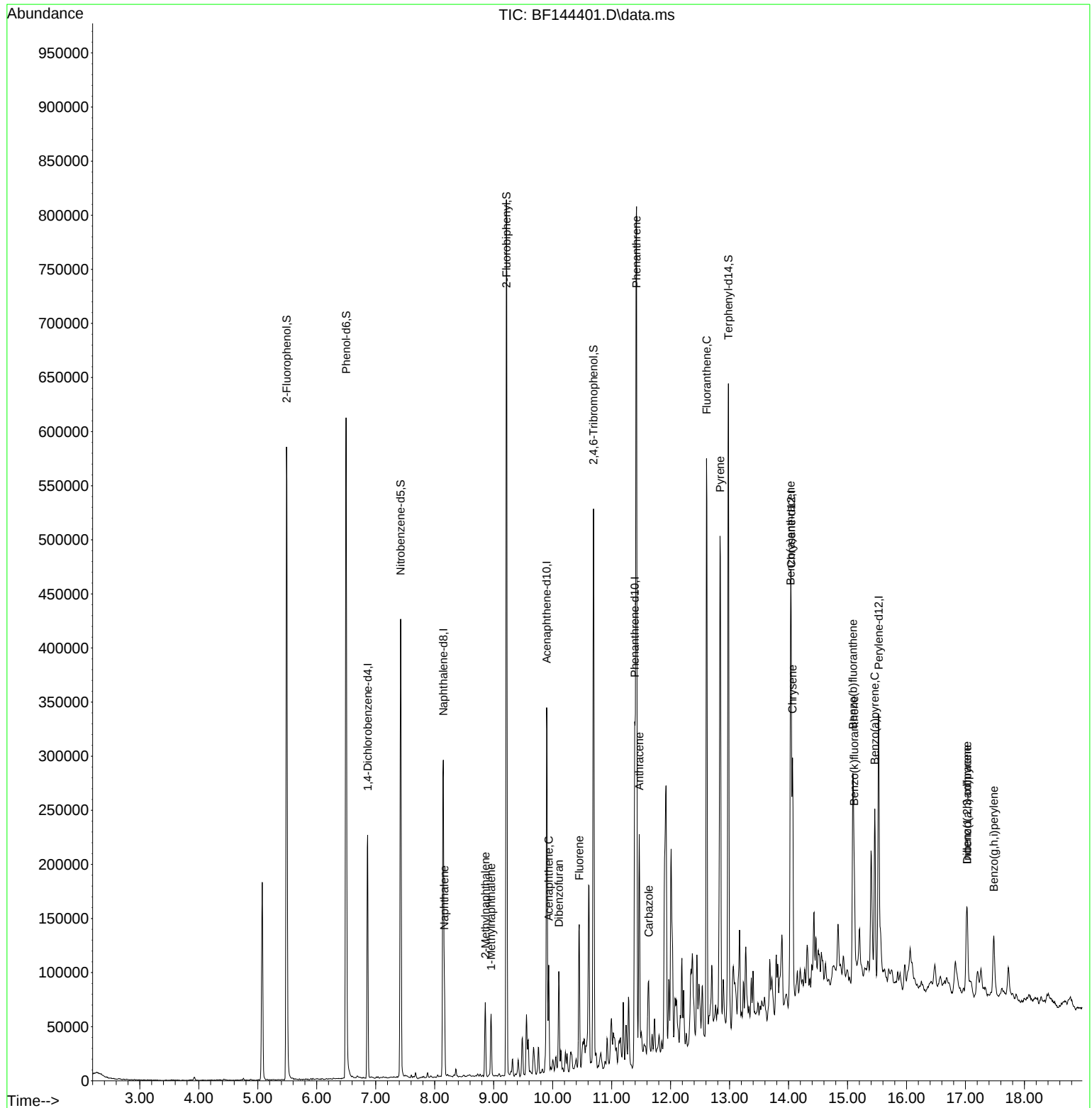
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120225\
Data File : BF144401.D
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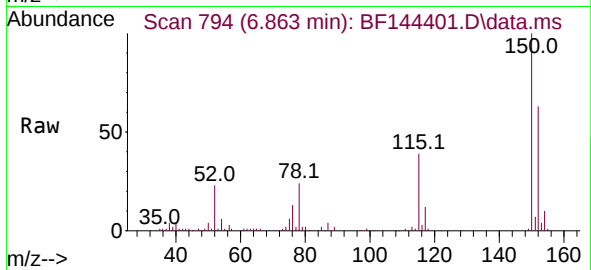
Reviewed By :Jagrut Upadhyay 12/03/2025
Supervised By :Sohil Jodhani 12/03/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 796
Delta R.T. -0.012 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

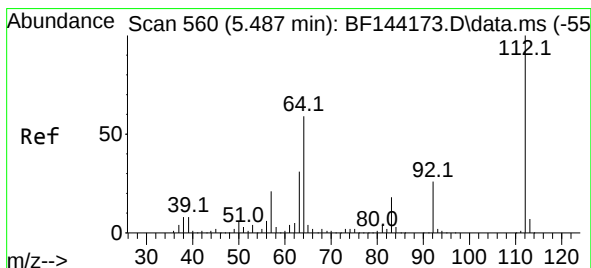
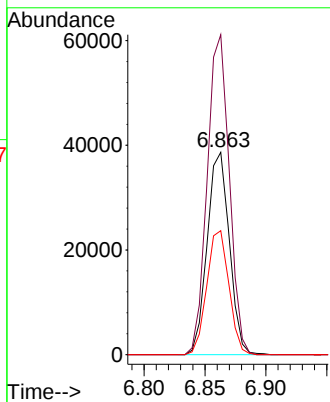
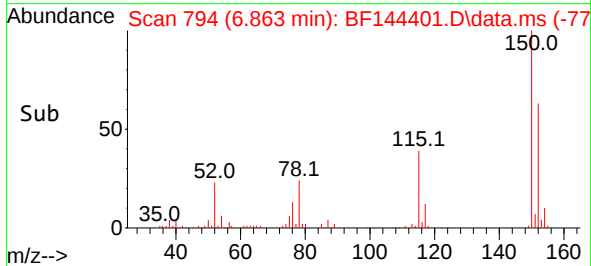
Instrument :
BNA_F
ClientSampleId :
SB-1125-23



Tgt Ion:152 Resp: 48990
Ion Ratio Lower Upper
152 100
150 158.2 127.4 191.0
115 61.3 49.5 74.3

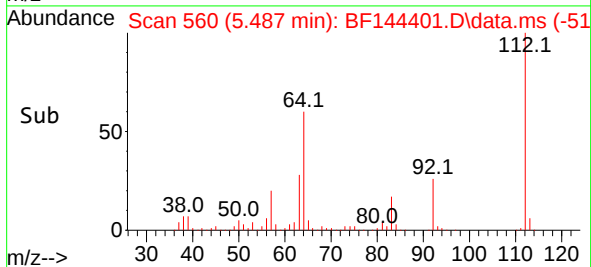
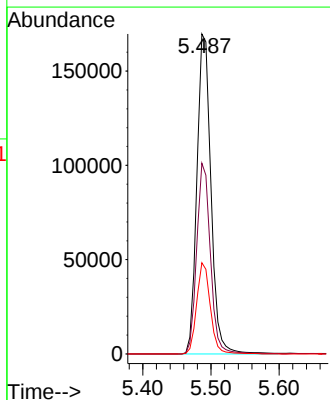
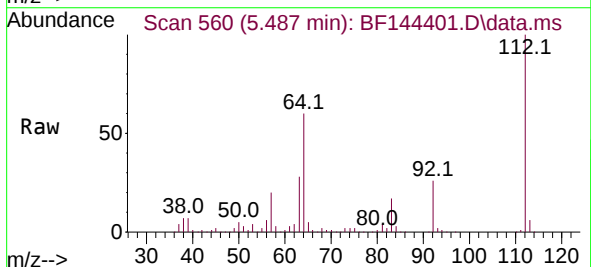
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Supervised By :Sohil Jodhani 12/03/2025



#5
2-Fluorophenol
Concen: 77.839 ng
RT: 5.487 min Scan# 560
Delta R.T. -0.006 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

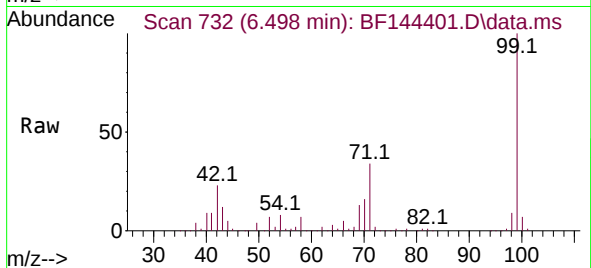
Tgt Ion:112 Resp: 243682
Ion Ratio Lower Upper
112 100
64 59.6 47.2 70.8
63 28.5 24.4 36.6





#7
Phenol-d6
Concen: 79.663 ng
RT: 6.498 min Scan# 733
Delta R.T. -0.000 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

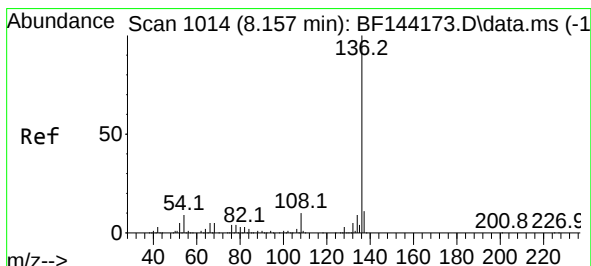
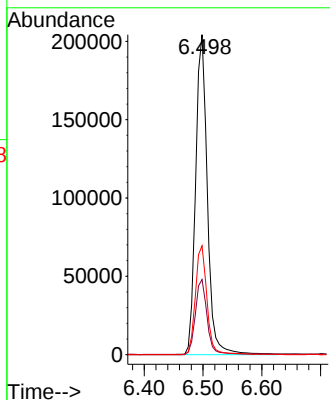
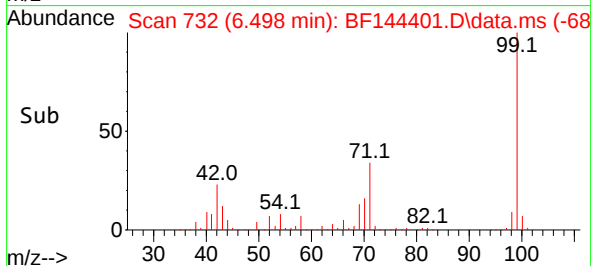
Instrument :
BNA_F
ClientSampleId :
SB-1125-23



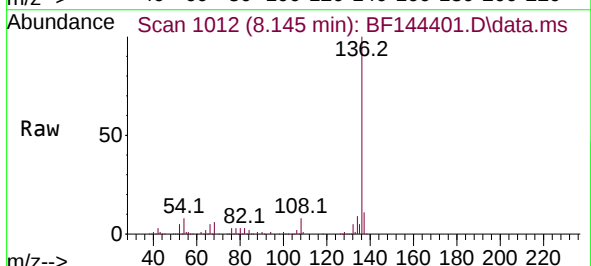
Tgt Ion: 99 Resp: 282581
Ion Ratio Lower Upper
99 100
42 23.5 20.9 31.3
71 34.0 31.4 47.2

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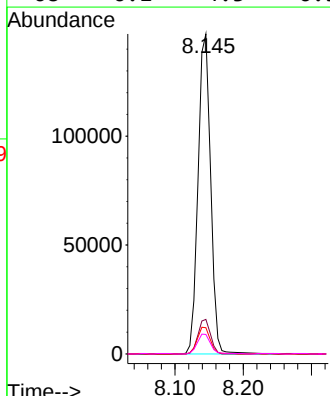
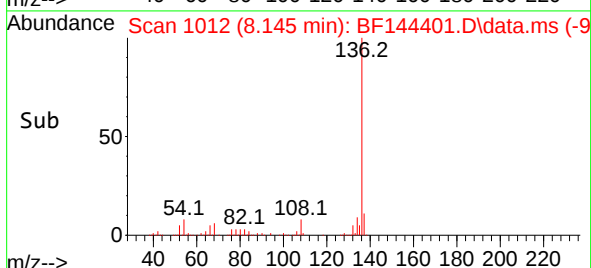
Reviewed By :Jagrut Upadhyay 12/03/2025
Supervised By :Sohil Jodhani 12/03/2025

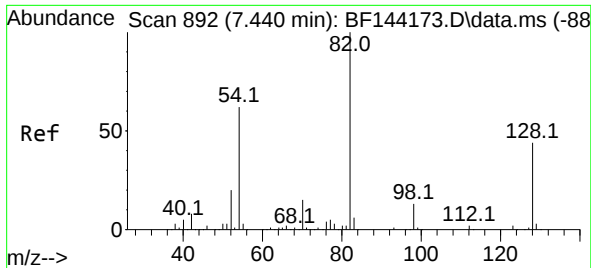


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.145 min Scan# 1012
Delta R.T. -0.012 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21



Tgt Ion:136 Resp: 188700
Ion Ratio Lower Upper
136 100
137 10.8 8.6 13.0
54 8.2 7.0 10.6
68 6.1 4.3 6.5





#23

Nitrobenzene-d5

Concen: 53.229 ng

RT: 7.422 min Scan# 889

Delta R.T. -0.012 min

Lab File: BF144401.D

Acq: 02 Dec 2025 14:21

Instrument :

BNA_F

ClientSampleId :

SB-1125-23

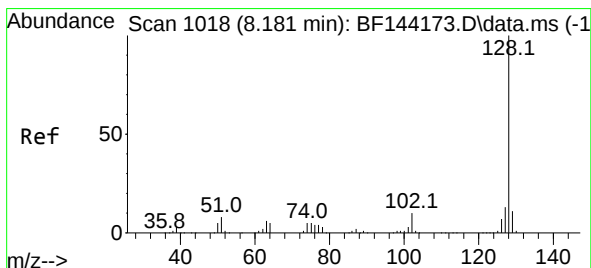
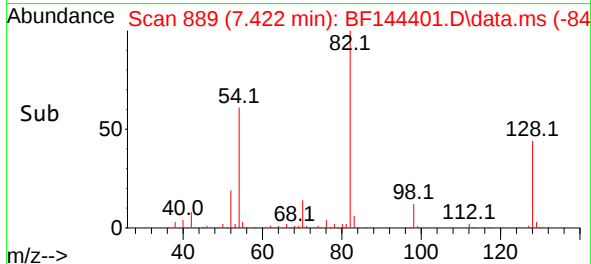
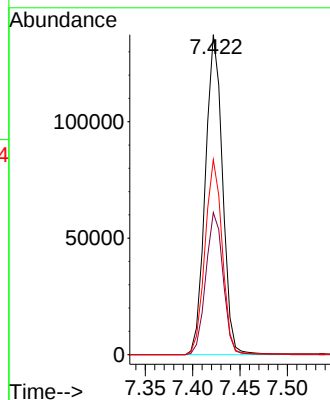
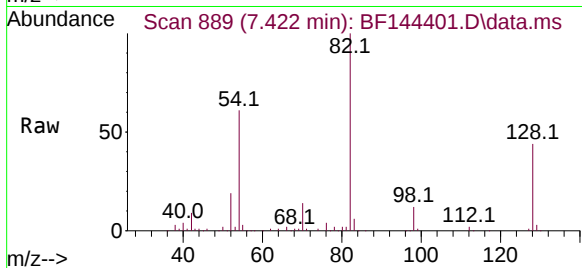
Tgt Ion: 82 Resp: 17391

Ion	Ratio	Lower	Upper
82	100		
128	44.4	34.7	52.1
54	60.9	49.5	74.3

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Supervised By :Sohil Jodhani 12/03/2025



#31

Naphthalene

Concen: 5.470 ng

RT: 8.163 min Scan# 1015

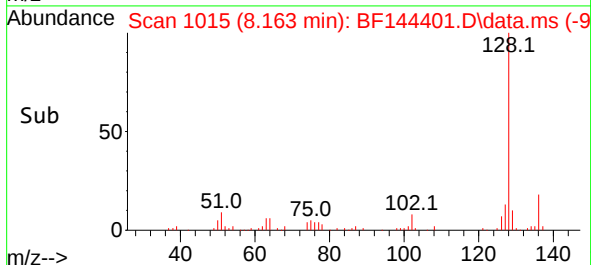
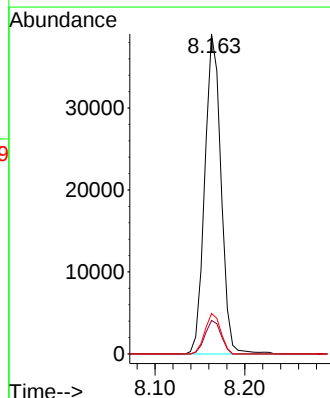
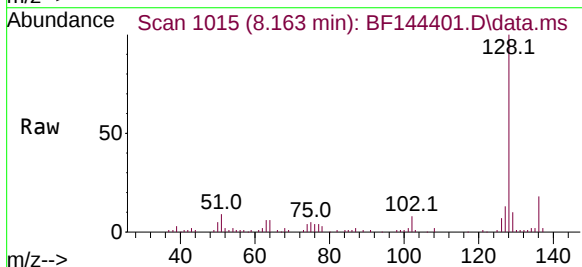
Delta R.T. -0.012 min

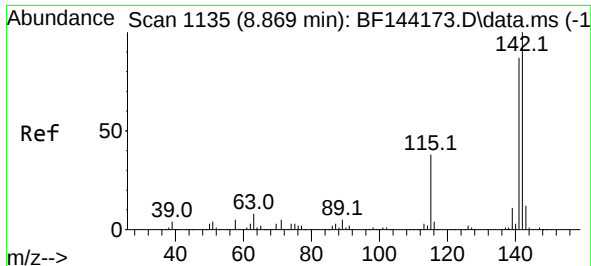
Lab File: BF144401.D

Acq: 02 Dec 2025 14:21

Tgt Ion:128 Resp: 49102

Ion	Ratio	Lower	Upper
128	100		
129	10.4	8.9	13.3
127	12.6	10.3	15.5





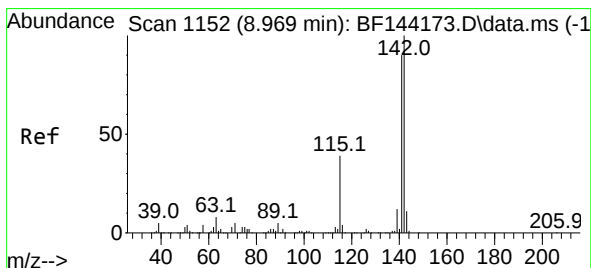
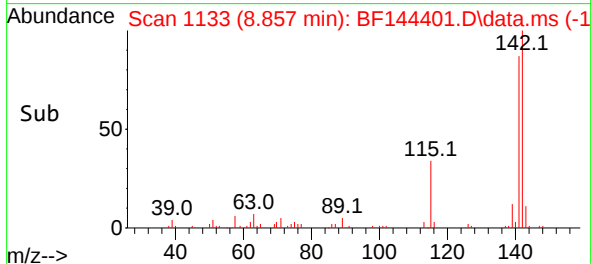
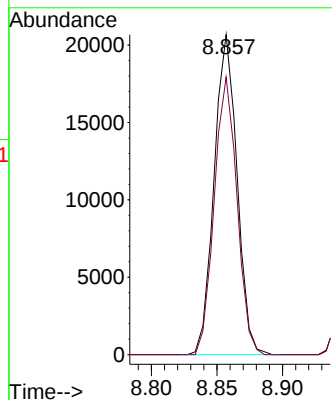
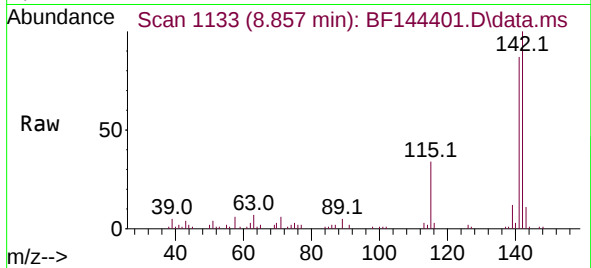
#37
2-Methylnaphthalene
Concen: 4.191 ng
RT: 8.857 min Scan# 1135
Delta R.T. -0.012 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

Instrument :
BNA_F
ClientSampleId :
SB-1125-23

Tgt Ion:142 Resp: 25152
Ion Ratio Lower Upper
142 100
141 86.7 69.9 104.9

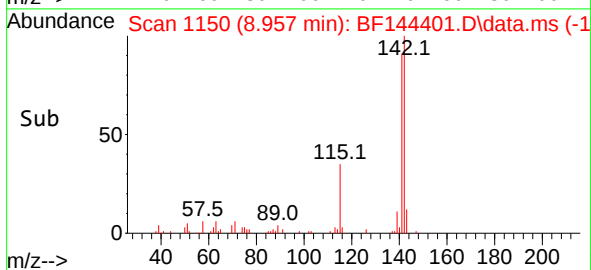
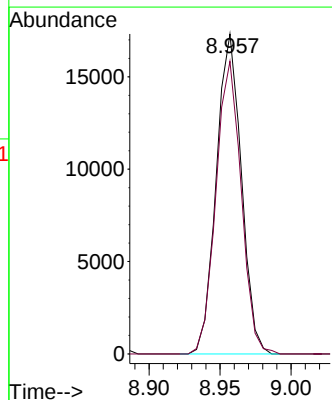
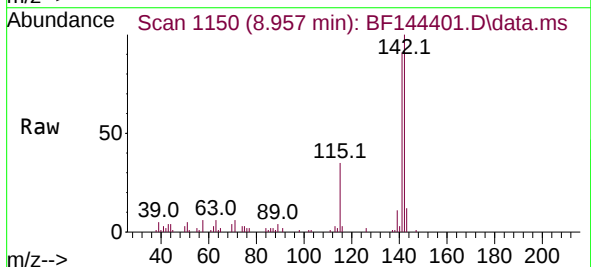
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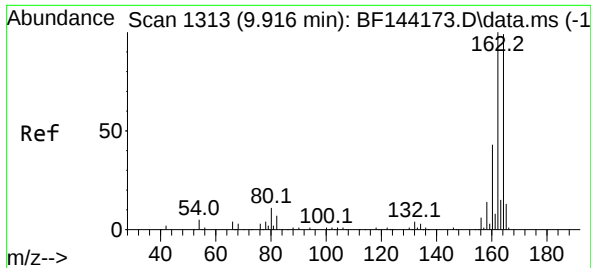
Reviewed By :Jagrut Upadhyay 12/03/2025
Supervised By :Sohil Jodhani 12/03/2025



#38
1-Methylnaphthalene
Concen: 3.666 ng
RT: 8.957 min Scan# 1150
Delta R.T. -0.012 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

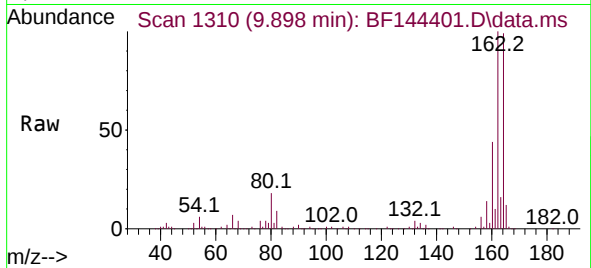
Tgt Ion:142 Resp: 21231
Ion Ratio Lower Upper
142 100
141 91.4 72.1 108.1





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.898 min Scan# 1310
Delta R.T. -0.018 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

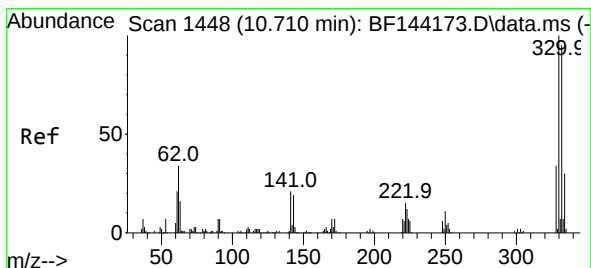
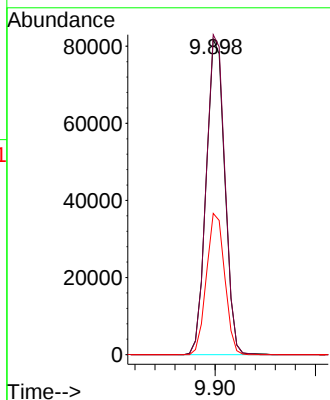
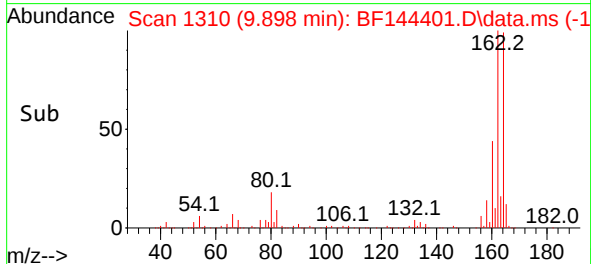
Instrument :
BNA_F
ClientSampleId :
SB-1125-23



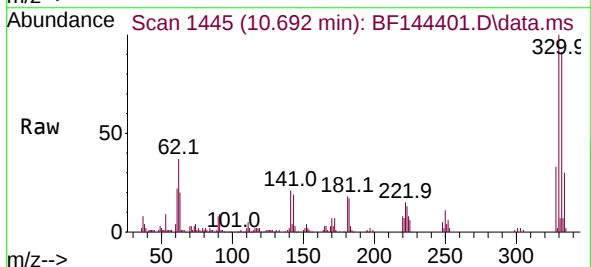
Tgt Ion:164 Resp: 105045
Ion Ratio Lower Upper
164 100
162 101.4 81.1 121.7
160 44.8 34.5 51.7

Manual Integrations
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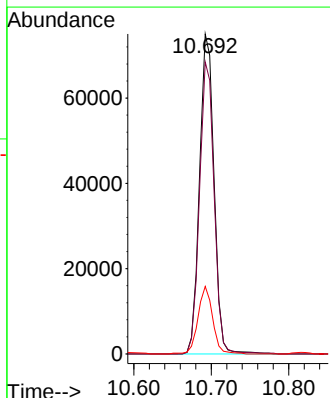
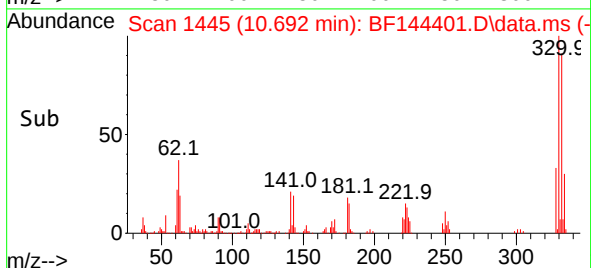
Reviewed By :Jagrut Upadhyay 12/03/2025
Supervised By :Sohil Jodhani 12/03/2025

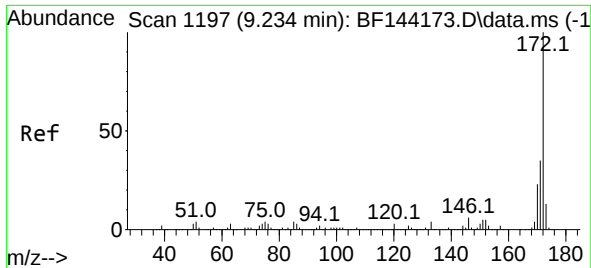


#42
2,4,6-Tribromophenol
Concen: 73.822 ng
RT: 10.692 min Scan# 1445
Delta R.T. -0.012 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21



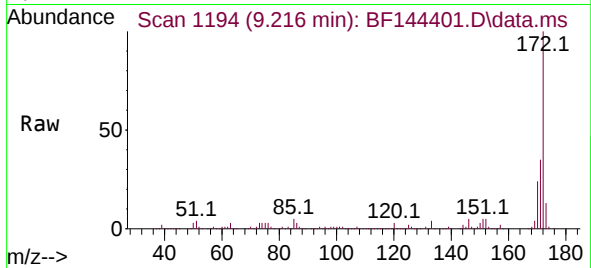
Tgt Ion:330 Resp: 97311
Ion Ratio Lower Upper
330 100
332 92.0 76.7 115.1
141 21.4 17.8 26.8





#45
2-Fluorobiphenyl
Concen: 53.244 ng
RT: 9.216 min Scan# 1194
Delta R.T. -0.012 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

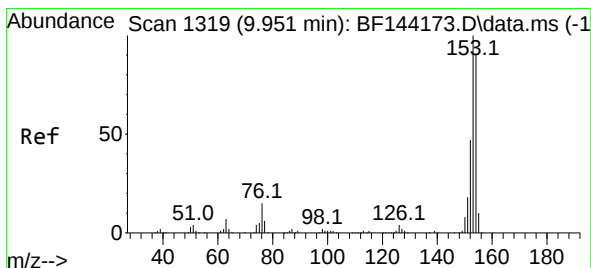
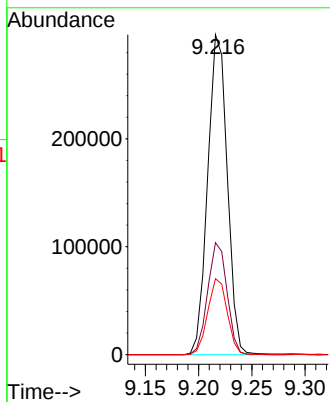
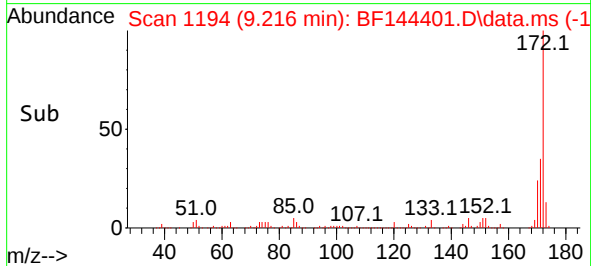
Instrument :
BNA_F
ClientSampleId :
SB-1125-23



Tgt Ion:172 Resp: 378690
Ion Ratio Lower Upper
172 100
171 35.0 28.1 42.1
170 23.7 18.6 28.0

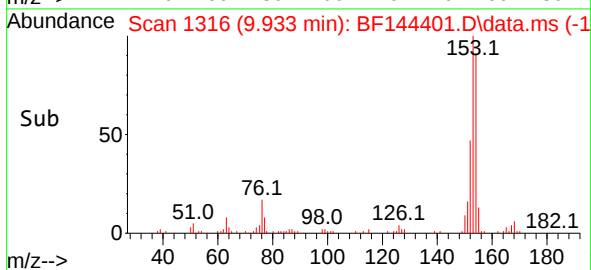
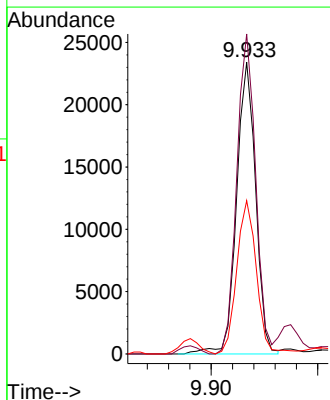
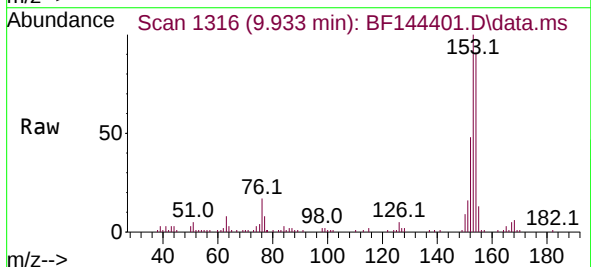
Manual Integrations
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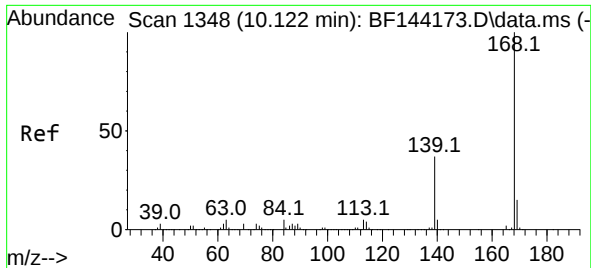
Reviewed By :Jagrut Upadhyay 12/03/2025
Supervised By :Sohil Jodhani 12/03/2025



#52
Acenaphthene
Concen: 5.092 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

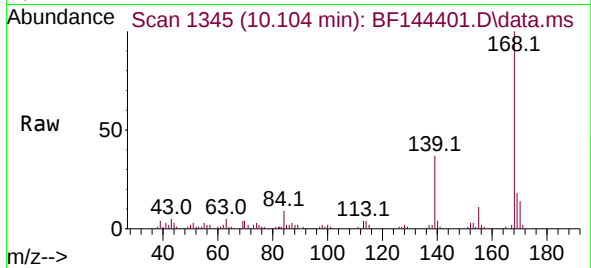
Tgt Ion:154 Resp: 29025
Ion Ratio Lower Upper
154 100
153 109.7 89.0 133.4
152 52.5 42.2 63.4





#55
Dibenzenofuran
Concen: 5.128 ng
RT: 10.104 min Scan# 1348
Delta R.T. -0.012 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

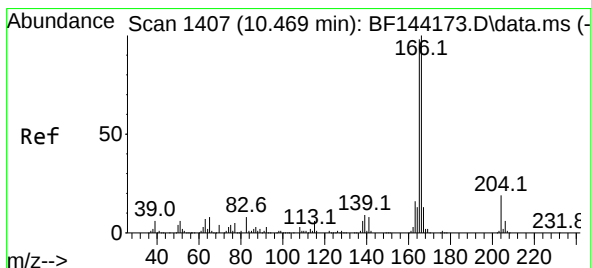
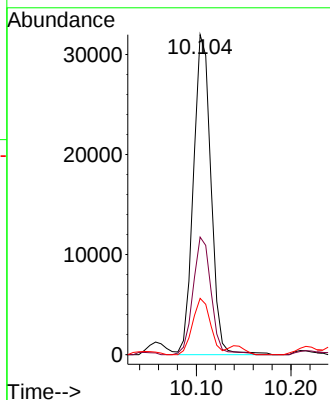
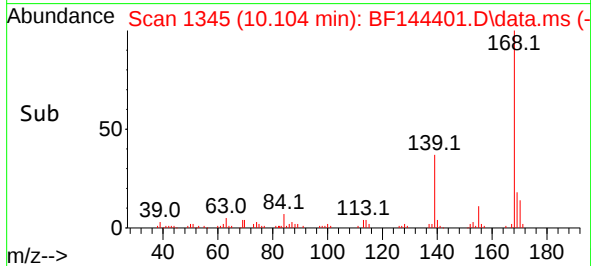
Instrument :
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SB-1125-23



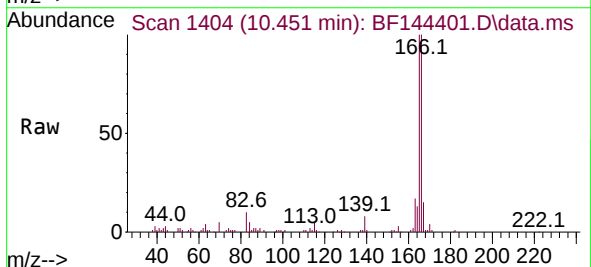
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Ion Ratio Lower Upper
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169 17.6 12.2 18.4

Manual Integrations
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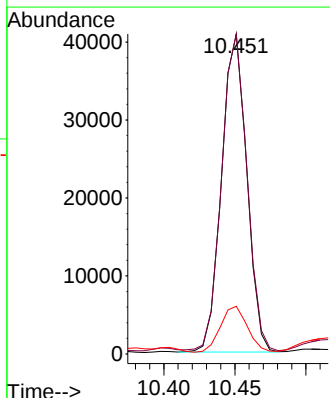
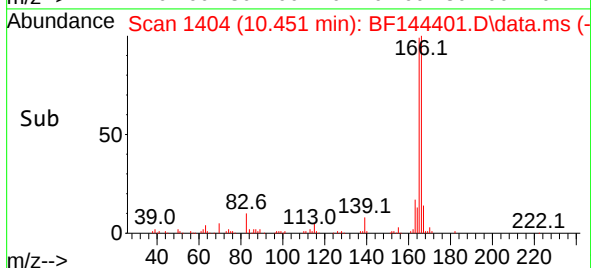
Reviewed By :Jagrut Upadhyay 12/03/2025
Supervised By :Sohil Jodhani 12/03/2025

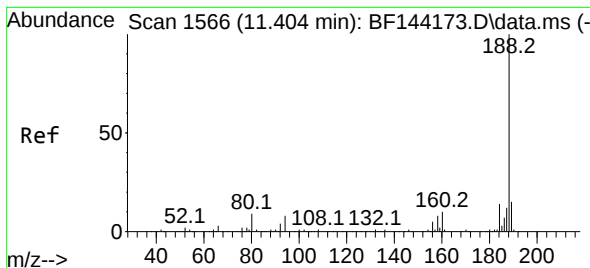


#58
Fluorene
Concen: 8.284 ng
RT: 10.451 min Scan# 1404
Delta R.T. -0.012 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21



Tgt Ion:166 Resp: 50278
Ion Ratio Lower Upper
166 100
165 100.1 78.6 118.0
167 14.9 10.4 15.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.392 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF144401.D

Acq: 02 Dec 2025 14:21

Instrument :

BNA_F

ClientSampleId :

SB-1125-23

Tgt Ion:188 Resp: 174584

Ion Ratio Lower Upper

188 100

94 7.9 6.2 9.2

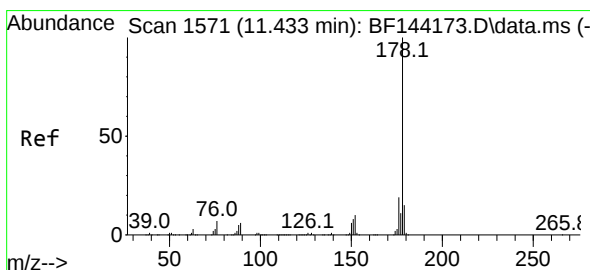
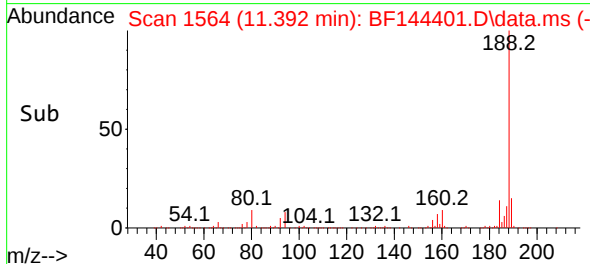
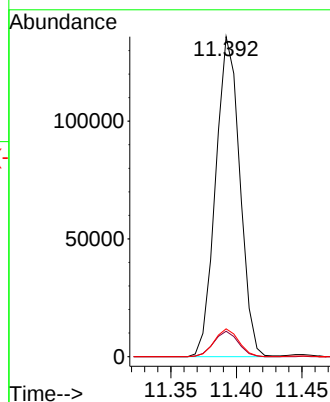
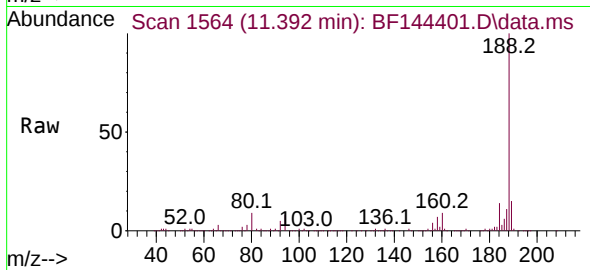
80 8.7 6.9 10.3

Manual Integrations

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Reviewed By :Jagrut Upadhyay 12/03/2025

Supervised By :Sohil Jodhani 12/03/2025



#71

Phenanthrene

Concen: 53.452 ng

RT: 11.422 min Scan# 1569

Delta R.T. -0.006 min

Lab File: BF144401.D

Acq: 02 Dec 2025 14:21

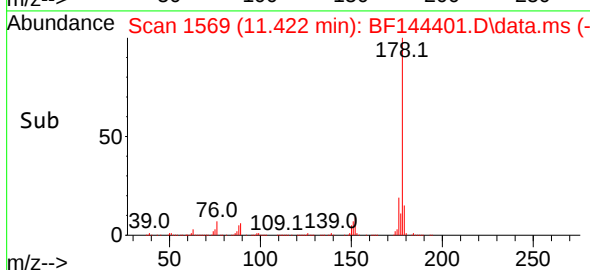
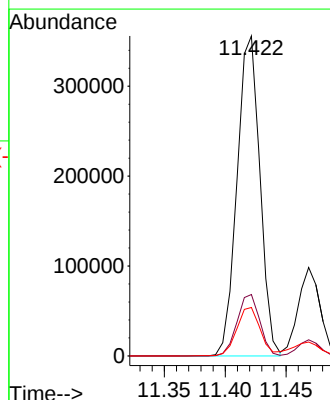
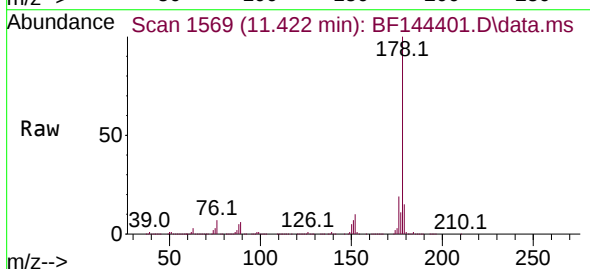
Tgt Ion:178 Resp: 464618

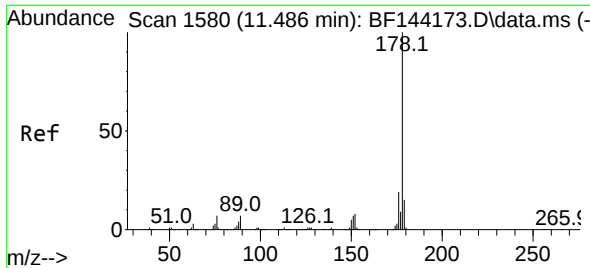
Ion Ratio Lower Upper

178 100

176 19.2 15.5 23.3

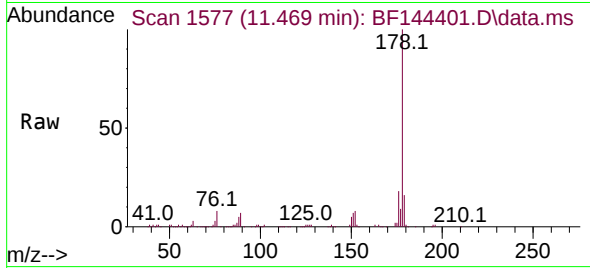
179 15.1 12.2 18.4





#72
 Anthracene
 Concen: 13.934 ng
 RT: 11.469 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF144401.D
 Acq: 02 Dec 2025 14:21

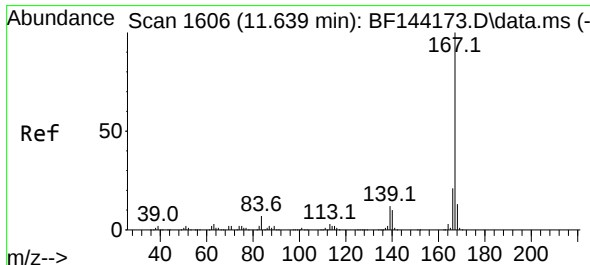
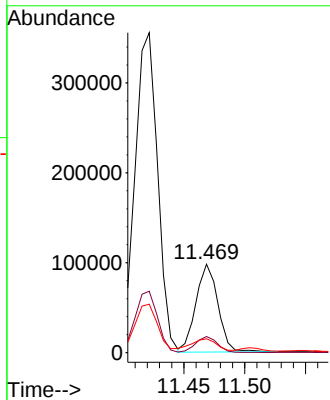
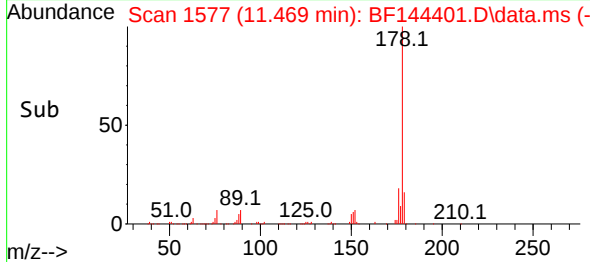
Instrument :
 BNA_F
 ClientSampleId :
 SB-1125-23



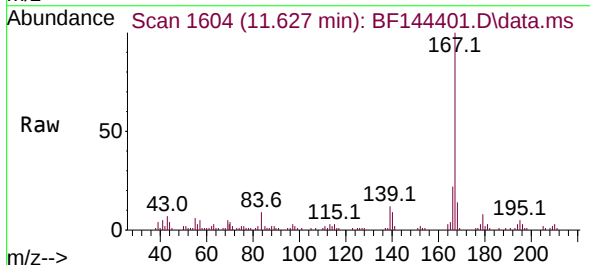
Tgt Ion:178 Resp: 12315
 Ion Ratio Lower Upper
 178 100
 176 18.2 15.3 22.9
 179 15.7 12.0 18.0

Manual Integrations
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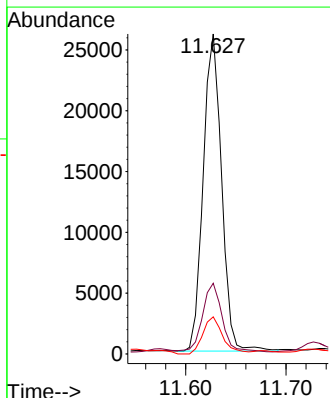
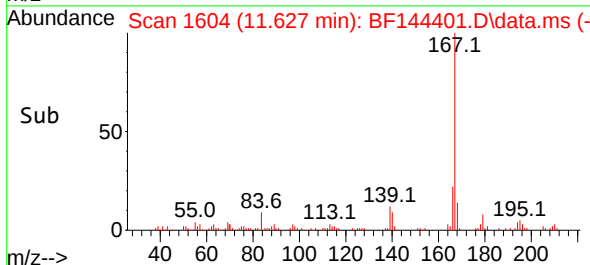
Reviewed By :Jagrut Upadhyay 12/03/2025
 Supervised By :Sohil Jodhani 12/03/2025

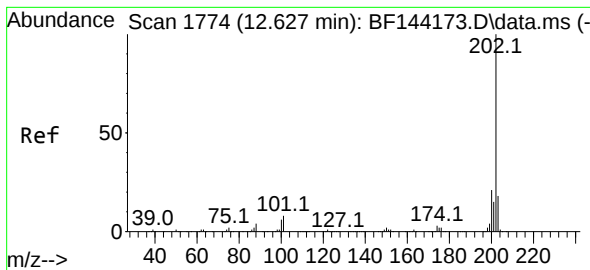


#73
 Carbazole
 Concen: 4.407 ng
 RT: 11.627 min Scan# 1604
 Delta R.T. -0.012 min
 Lab File: BF144401.D
 Acq: 02 Dec 2025 14:21



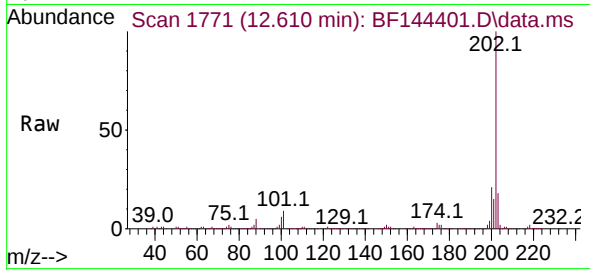
Tgt Ion:167 Resp: 33124
 Ion Ratio Lower Upper
 167 100
 166 22.1 17.2 25.8
 139 11.6 9.9 14.9





#75
Fluoranthene
Concen: 34.623 ng
RT: 12.610 min Scan# 1771
Delta R.T. -0.012 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

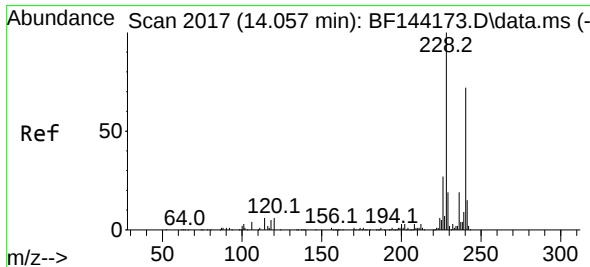
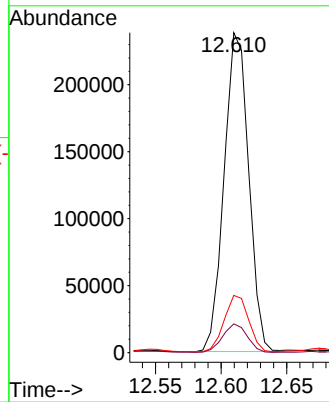
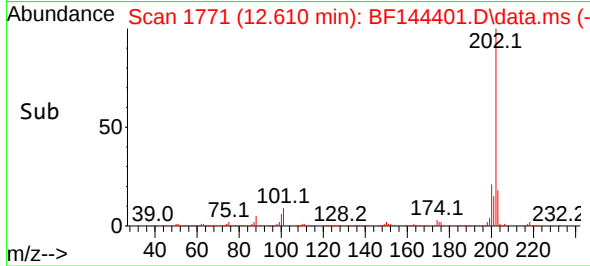
Instrument :
BNA_F
ClientSampleId :
SB-1125-23



Tgt Ion:202 Resp: 310882
Ion Ratio Lower Upper
202 100
101 9.0 0.0 27.9
203 17.9 0.0 37.5

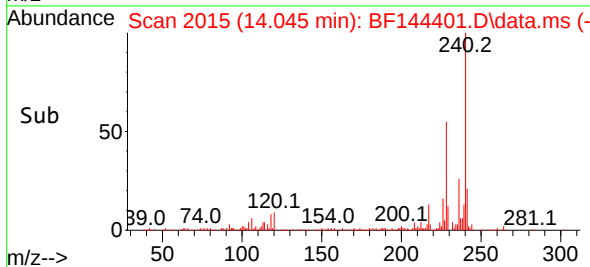
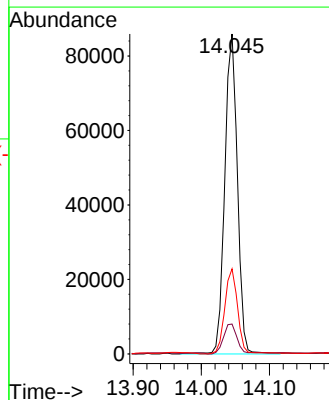
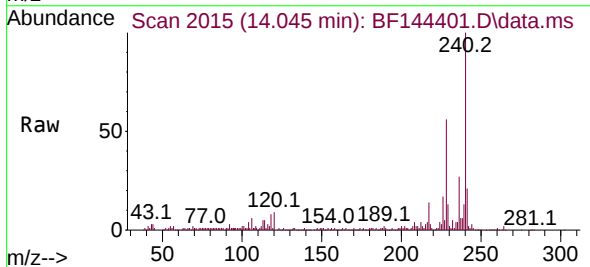
Manual Integrations
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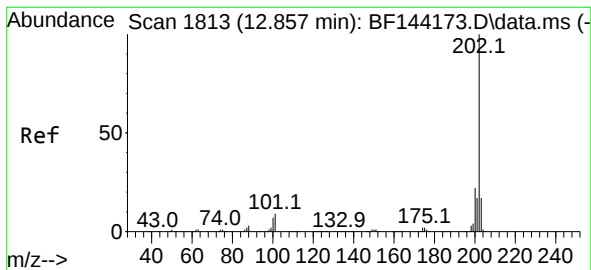
Reviewed By :Jagrut Upadhyay 12/03/2025
Supervised By :Sohil Jodhani 12/03/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2015
Delta R.T. -0.006 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

Tgt Ion:240 Resp: 109456
Ion Ratio Lower Upper
240 100
120 9.3 6.6 10.0
236 26.6 21.4 32.2





#78

Pyrene

Concen: 31.896 ng

RT: 12.839 min Scan# 1810

Delta R.T. -0.012 min

Lab File: BF144401.D

Acq: 02 Dec 2025 14:21

Instrument :

BNA_F

ClientSampleId :

SB-1125-23

Tgt Ion:202 Resp: 281489

Ion Ratio Lower Upper

202 100

200 21.3 17.2 25.8

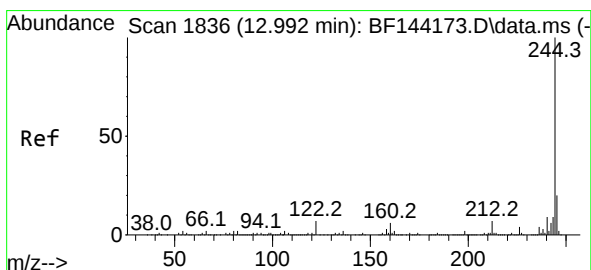
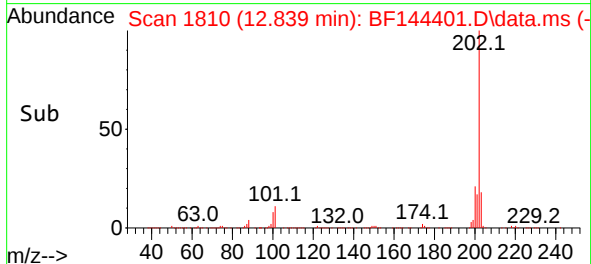
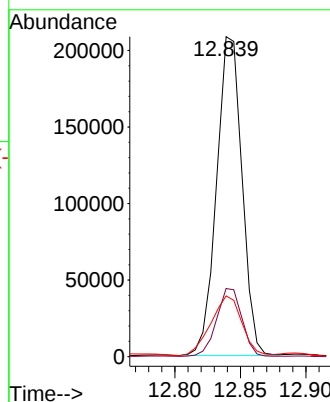
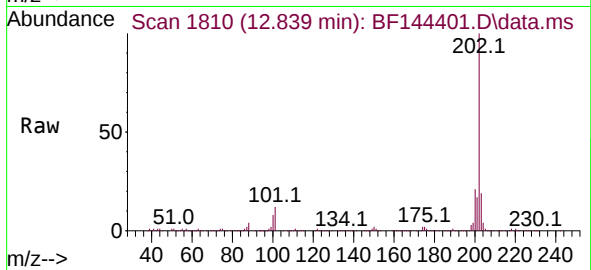
203 19.0 13.7 20.5

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/03/2025

Supervised By :Sohil Jodhani 12/03/2025



#79

Terphenyl-d14

Concen: 45.528 ng

RT: 12.980 min Scan# 1834

Delta R.T. -0.012 min

Lab File: BF144401.D

Acq: 02 Dec 2025 14:21

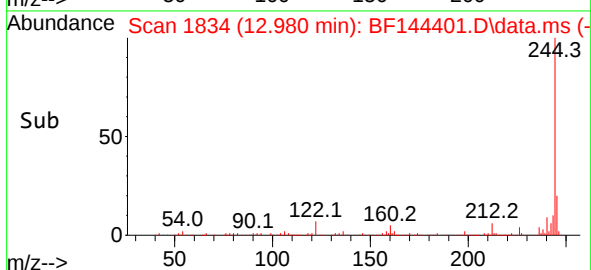
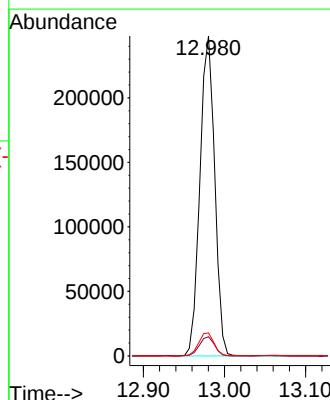
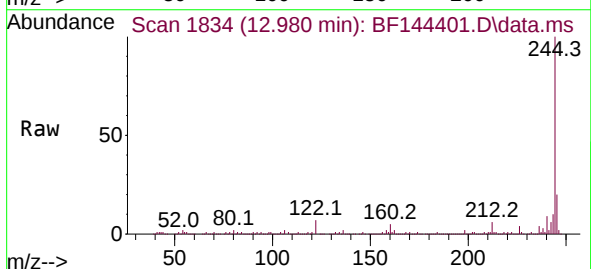
Tgt Ion:244 Resp: 313734

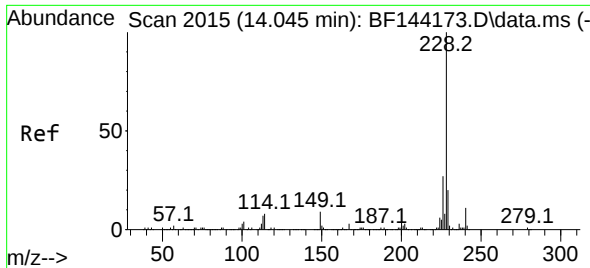
Ion Ratio Lower Upper

244 100

212 6.0 5.3 7.9

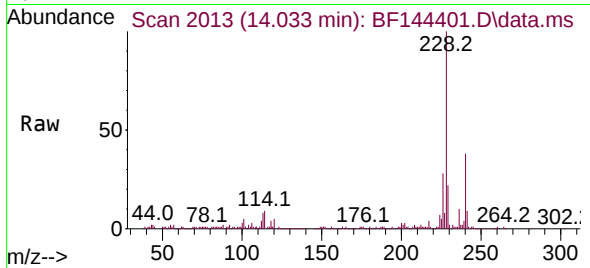
122 7.2 5.6 8.4





#81
Benzo(a)anthracene
Concen: 18.897 ng
RT: 14.033 min Scan# 2019
Delta R.T. -0.012 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

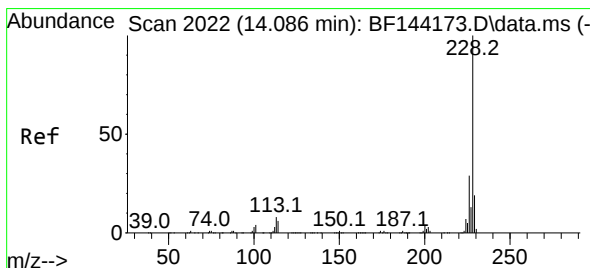
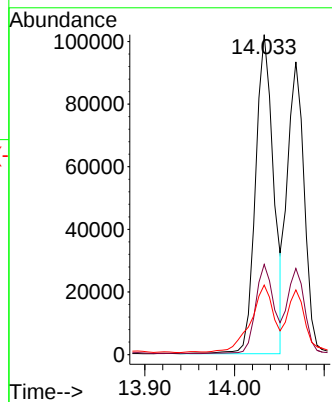
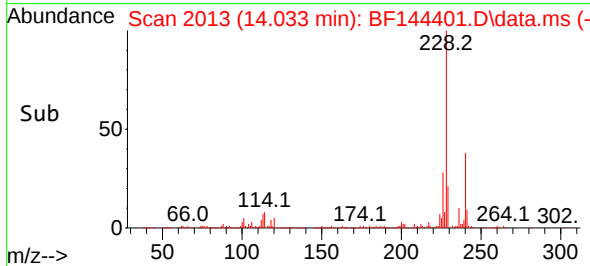
Instrument :
BNA_F
ClientSampleId :
SB-1125-23



Tgt Ion:228 Resp: 143358
Ion Ratio Lower Upper
228 100
226 28.2 21.8 32.8
229 21.8 15.8 23.6

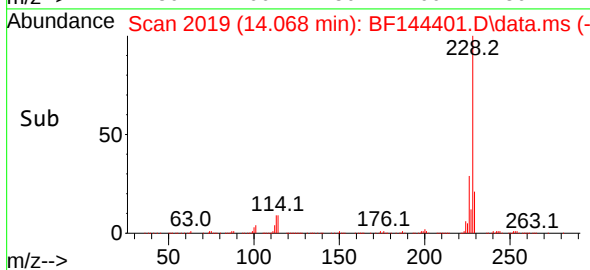
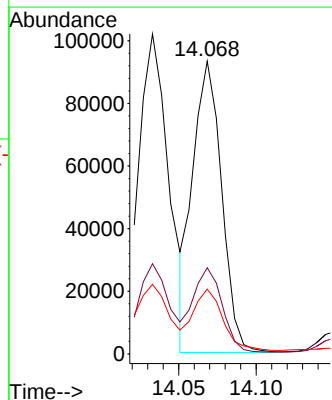
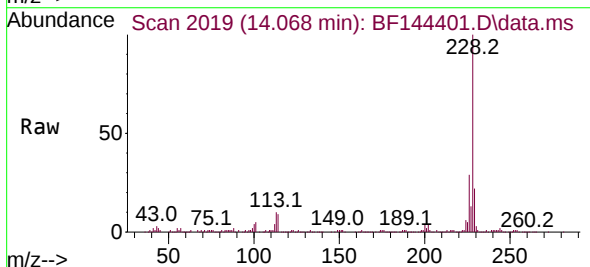
Manual Integrations
APPROVED

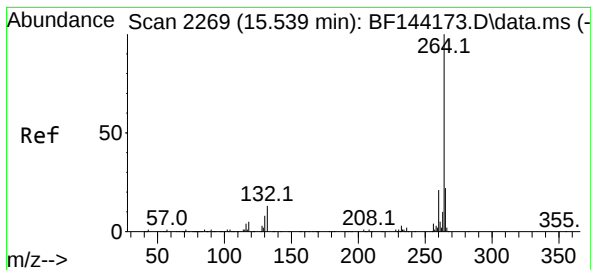
Reviewed By :Jagrut Upadhyay 12/03/2025
Supervised By :Sohil Jodhani 12/03/2025



#83
Chrysene
Concen: 17.229 ng
RT: 14.068 min Scan# 2019
Delta R.T. -0.012 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

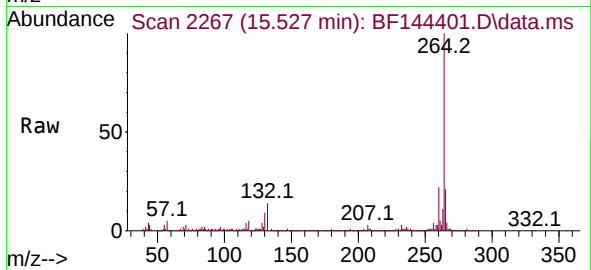
Tgt Ion:228 Resp: 120652
Ion Ratio Lower Upper
228 100
226 29.4 22.9 34.3
229 22.1 15.0 22.6





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 211
Delta R.T. -0.012 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

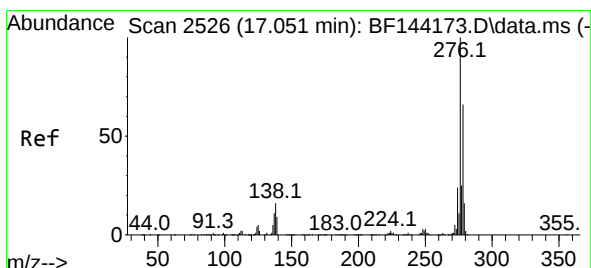
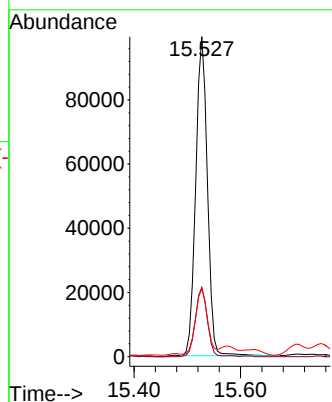
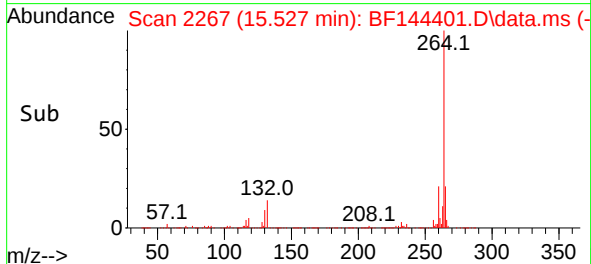
Instrument :
BNA_F
ClientSampleId :
SB-1125-23



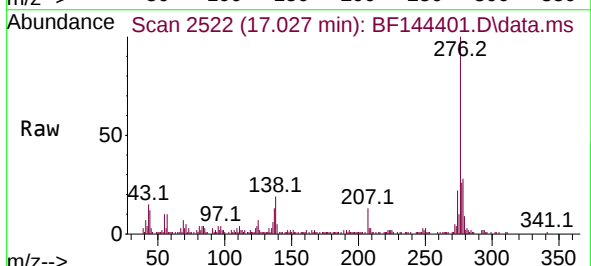
Tgt Ion:264 Resp: 15114
Ion Ratio Lower Upper
264 100
260 21.6 17.1 25.7
265 21.2 17.4 26.0

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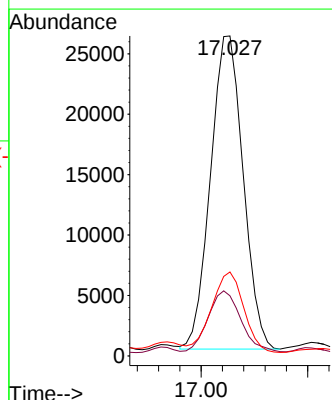
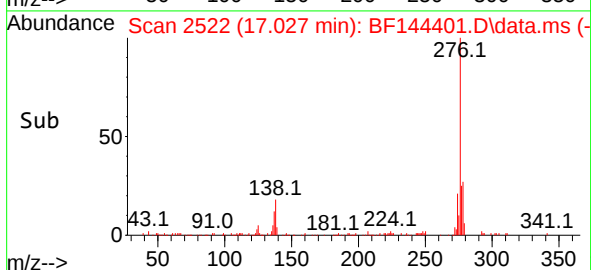
Reviewed By :Jagrut Upadhyay 12/03/2025
Supervised By :Sohil Jodhani 12/03/2025

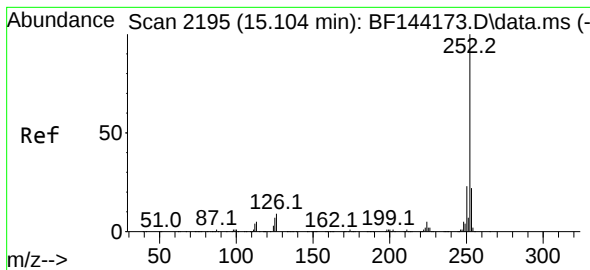


#87
Indeno(1,2,3-cd)pyrene
Concen: 5.088 ng
RT: 17.027 min Scan# 2522
Delta R.T. -0.006 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21



Tgt Ion:276 Resp: 55200
Ion Ratio Lower Upper
276 100
138 19.6 13.9 20.9
277 25.5 19.8 29.6





#88

Benzo(b)fluoranthene

Concen: 15.515 ng m

RT: 15.092 min Scan# 2195

Delta R.T. -0.006 min

Lab File: BF144401.D

Acq: 02 Dec 2025 14:21

Instrument :

BNA_F

ClientSampleId :

SB-1125-23

Tgt Ion:252 Resp: 133315

Ion Ratio Lower Upper

252 100

253 22.6 17.4 26.2

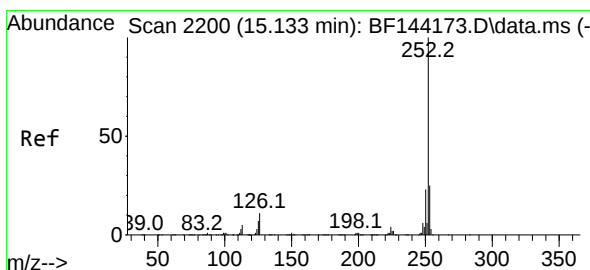
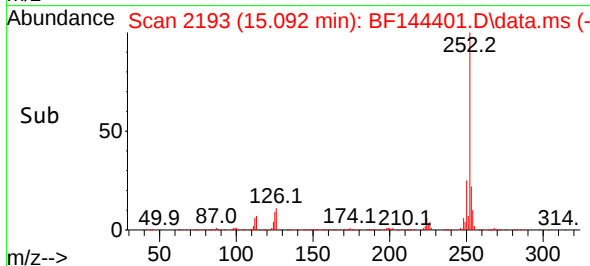
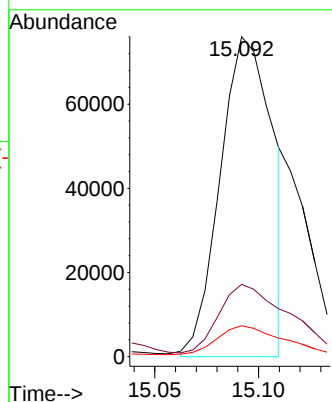
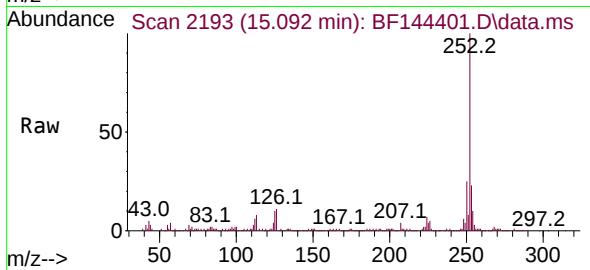
125 9.6 5.3 7.9

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/03/2025

Supervised By :Sohil Jodhani 12/03/2025



#89

Benzo(k)fluoranthene

Concen: 5.195 ng m

RT: 15.110 min Scan# 2196

Delta R.T. -0.018 min

Lab File: BF144401.D

Acq: 02 Dec 2025 14:21

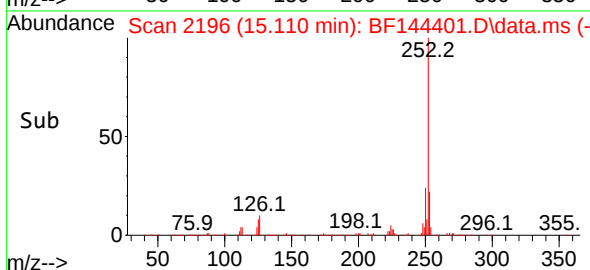
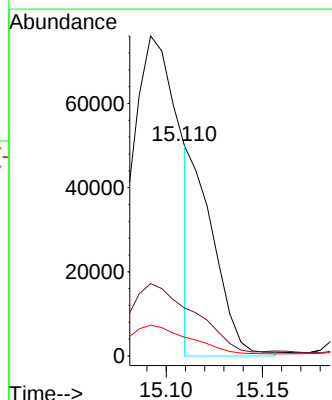
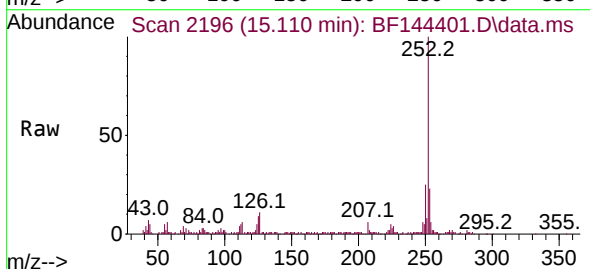
Tgt Ion:252 Resp: 41781

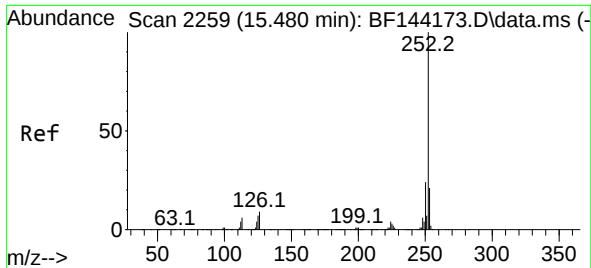
Ion Ratio Lower Upper

252 100

253 22.8 18.0 27.0

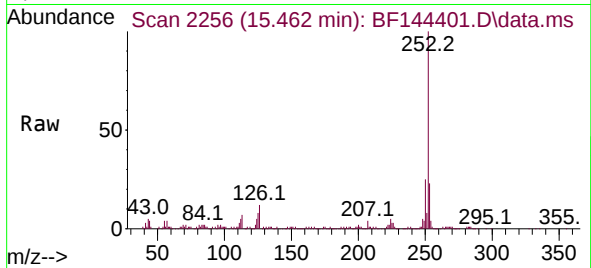
125 8.9 5.4 8.2





#90
Benzo(a)pyrene
Concen: 13.243 ng
RT: 15.462 min Scan# 2110
Delta R.T. -0.012 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

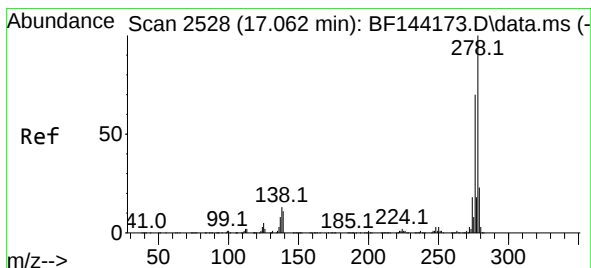
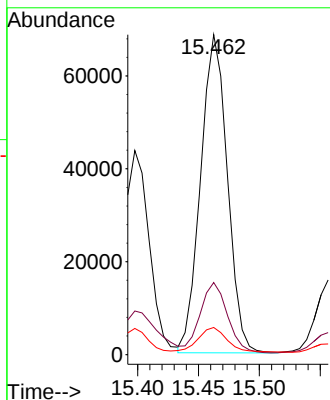
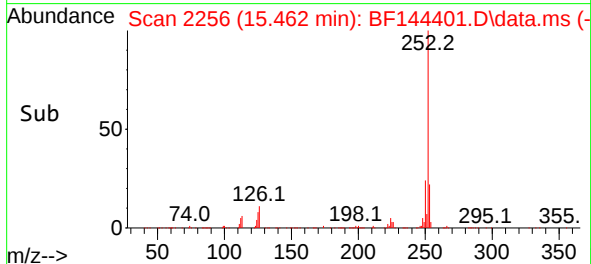
Instrument :
BNA_F
ClientSampleId :
SB-1125-23



Tgt Ion:252 Resp: 104982
Ion Ratio Lower Upper
252 100
253 22.5 16.7 25.1
125 8.5 5.7 8.5

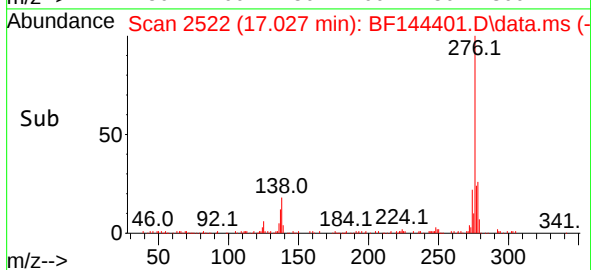
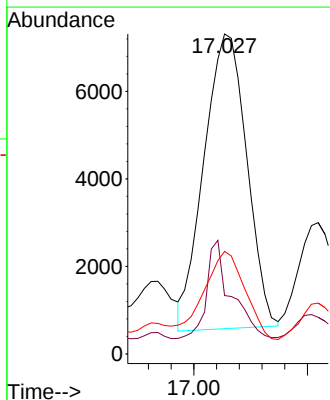
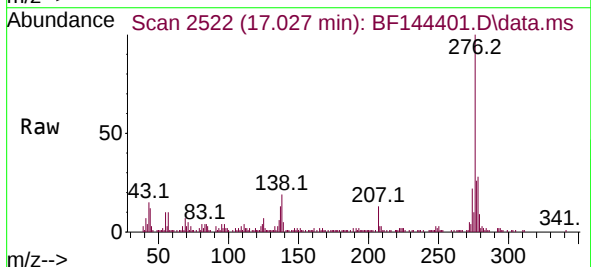
Manual Integrations
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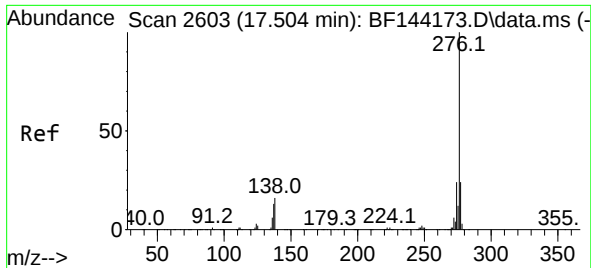
Reviewed By :Jagrut Upadhyay 12/03/2025
Supervised By :Sohil Jodhani 12/03/2025



#91
Dibenzo(a,h)anthracene
Concen: 2.021 ng
RT: 17.027 min Scan# 2522
Delta R.T. -0.024 min
Lab File: BF144401.D
Acq: 02 Dec 2025 14:21

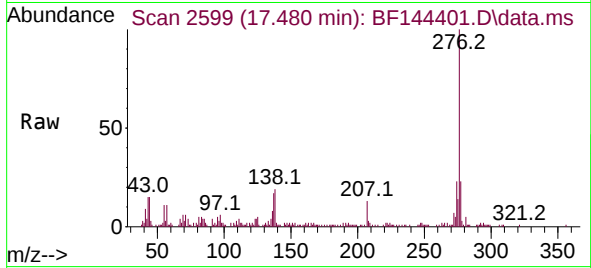
Tgt Ion:278 Resp: 17611
Ion Ratio Lower Upper
278 100
139 18.3 9.1 13.7#
279 32.0 18.2 27.4#





#92
 Benzo(g,h,i)perylene
 Concen: 5.877 ng
 RT: 17.480 min Scan# 2599
 Delta R.T. -0.012 min
 Lab File: BF144401.D
 Acq: 02 Dec 2025 14:21

Instrument :
 BNA_F
 ClientSampleId :
 SB-1125-23



Tgt Ion:276 Resp: 50569
 Ion Ratio Lower Upper
 276 100
 277 22.9 19.0 28.4
 138 19.1 12.9 19.3

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 12/03/2025
 Supervised By :Sohil Jodhani 12/03/2025

