

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101025\
 Data File : BF143927.D
 Acq On : 10 Oct 2025 16:20
 Operator : RC/JU
 Sample : Q3310-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SS-01-0-1

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 10/13/2025
 Supervised By :mohammad ahmed 10/15/2025

Quant Time: Oct 10 17:16:44 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	118134	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	439825	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	215736	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	320645	20.000	ng	0.00
76) Chrysene-d12	14.063	240	271231	20.000	ng	0.00
86) Perylene-d12	15.545	264	260591	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	608068	81.738	ng	0.00
7) Phenol-d6	6.504	99	707454	79.783	ng	-0.01
23) Nitrobenzene-d5	7.439	82	412861	57.030	ng	-0.02
42) 2,4,6-Tribromophenol	10.710	330	147734	68.753	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	665135	48.921	ng	-0.01
79) Terphenyl-d14	12.998	244	550490	34.687	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.187	128	72522	3.625	ng	99
52) Acenaphthene	9.951	154	47610	4.340	ng	94
55) Dibenzofuran	10.128	168	46119	2.978	ng	99
58) Fluorene	10.469	166	37477	3.207	ng	95
71) Phenanthrene	11.439	178	559645	36.002	ng	99
72) Anthracene	11.486	178	143621	9.145	ng	98
73) Carbazole	11.639	167	83654	6.015	ng	97
75) Fluoranthene	12.633	202	691596	43.072	ng	99
78) Pyrene	12.863	202	565939	25.028	ng	99
81) Benzo(a)anthracene	14.051	228	347624	19.585	ng	98
83) Chrysene	14.086	228	274054	16.683	ng	97
87) Indeno(1,2,3-cd)pyrene	17.033	276	95630	5.989	ng	98
88) Benzo(b)fluoranthene	15.110	252	341815m	22.835	ng	
89) Benzo(k)fluoranthene	15.127	252	102950m	7.433	ng	
90) Benzo(a)pyrene	15.480	252	203794	15.701	ng	# 98
92) Benzo(g,h,i)perylene	17.492	276	90167	7.021	ng	# 95

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

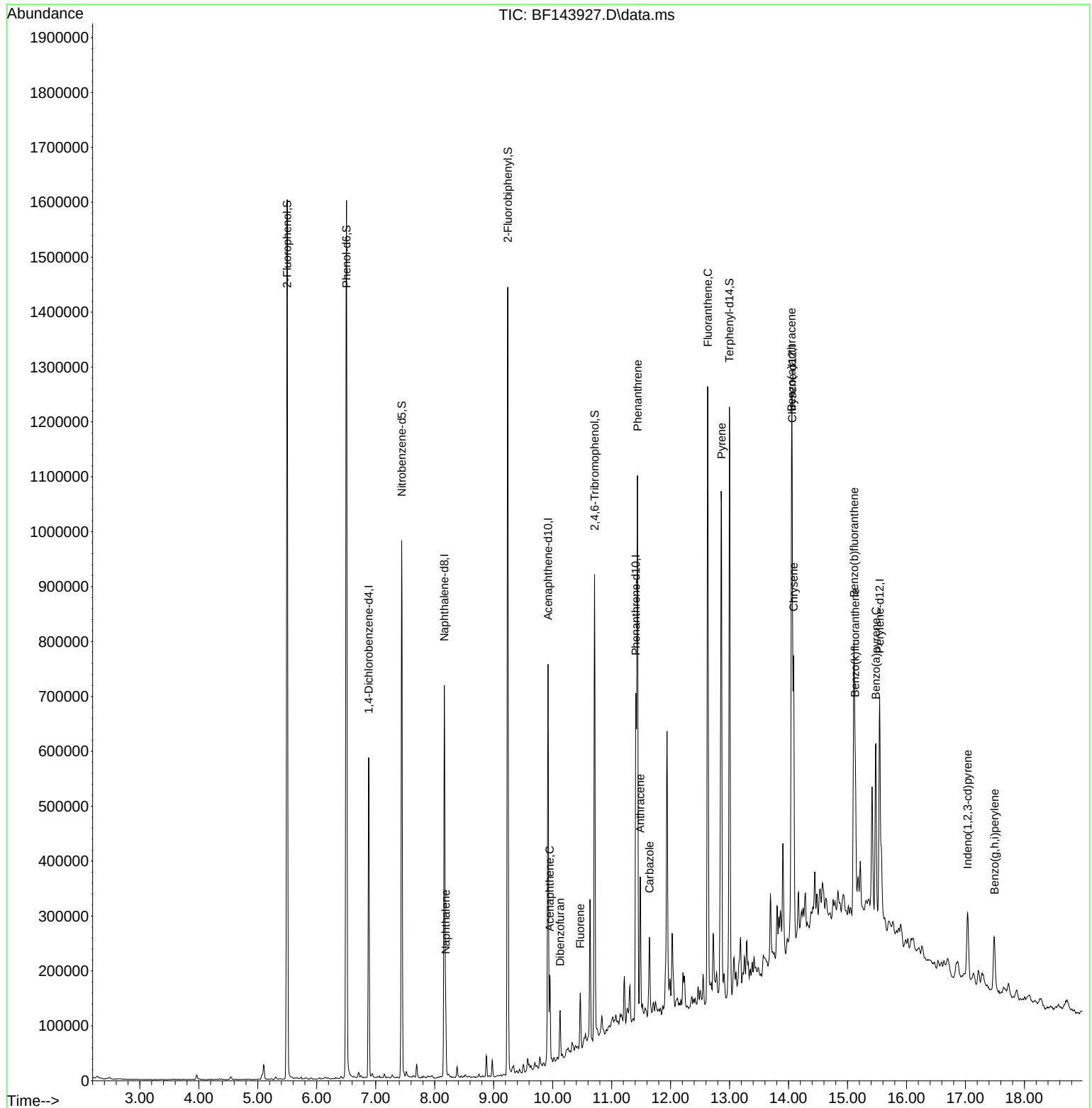
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101025\
Data File : BF143927.D
Acq On : 10 Oct 2025 16:20
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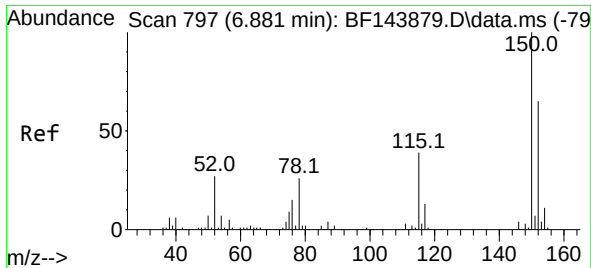
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SS-01-0-1

Quant Time: Oct 10 17:16:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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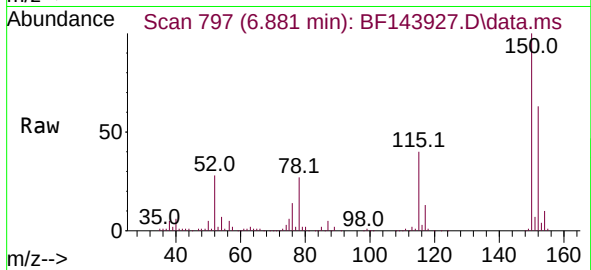
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 79
Delta R.T. -0.005 min
Lab File: BF143927.D
Acq: 10 Oct 2025 16:20

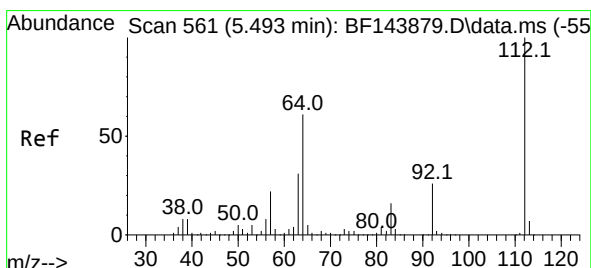
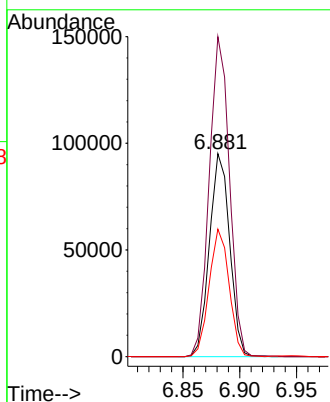
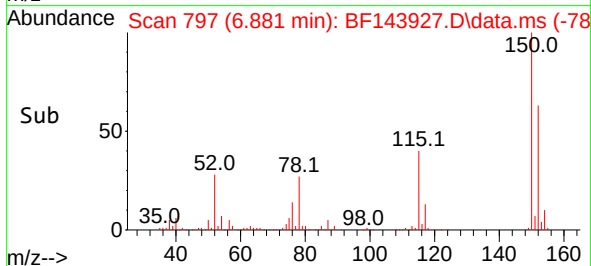
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BNA_F
ClientSampleId :
SS-01-0-1



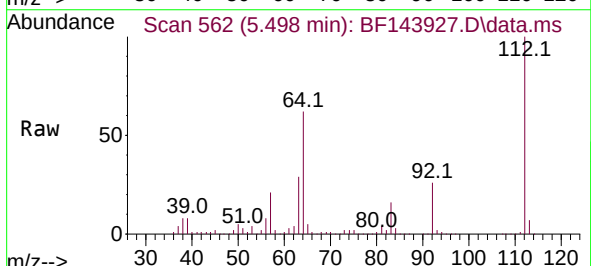
Tgt Ion:152 Resp: 118134
Ion Ratio Lower Upper
152 100
150 157.6 124.4 186.6
115 62.8 48.1 72.1

Manual Integrations
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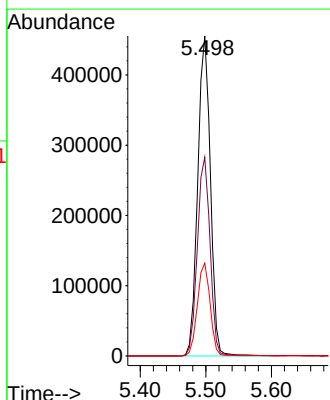
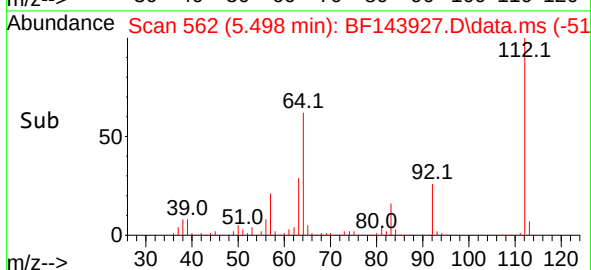
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025

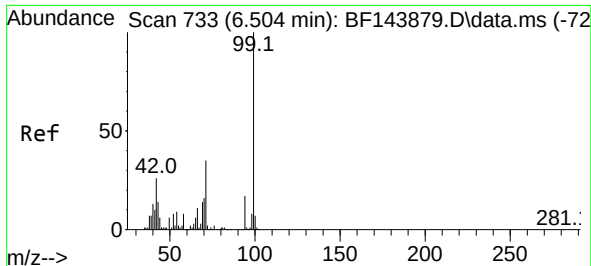


#5
2-Fluorophenol
Concen: 81.738 ng
RT: 5.498 min Scan# 562
Delta R.T. 0.000 min
Lab File: BF143927.D
Acq: 10 Oct 2025 16:20



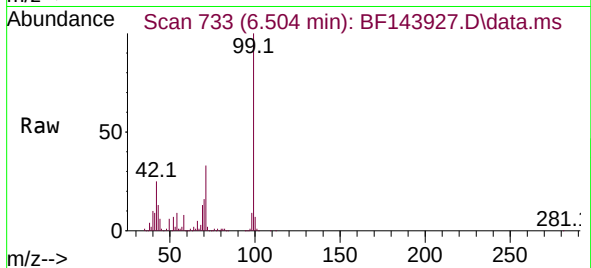
Tgt Ion:112 Resp: 608068
Ion Ratio Lower Upper
112 100
64 62.1 49.1 73.7
63 29.0 24.5 36.7





#7
Phenol-d6
Concen: 79.783 ng
RT: 6.504 min Scan# 733
Delta R.T. -0.012 min
Lab File: BF143927.D
Acq: 10 Oct 2025 16:20

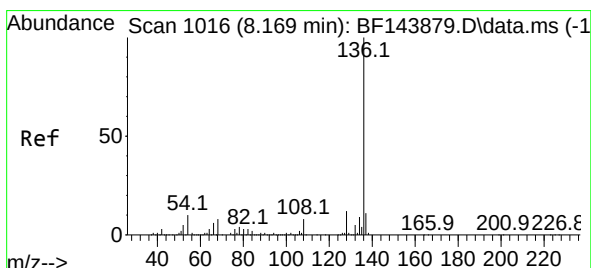
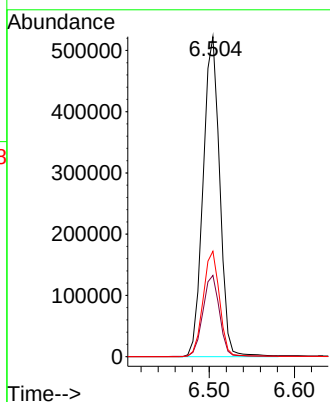
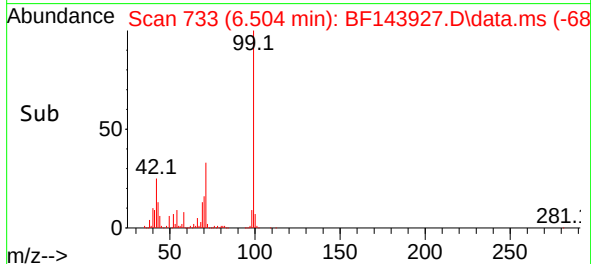
Instrument :
BNA_F
ClientSampleId :
SS-01-0-1



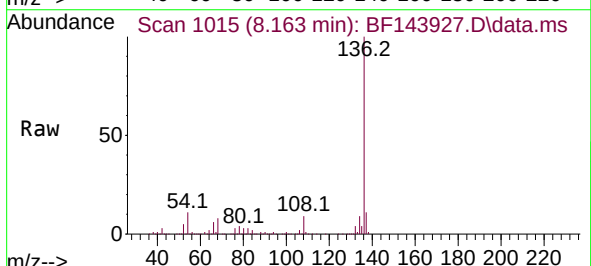
Tgt Ion: 99 Resp: 707454
Ion Ratio Lower Upper
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42 25.4 21.0 31.4
71 32.9 27.8 41.8

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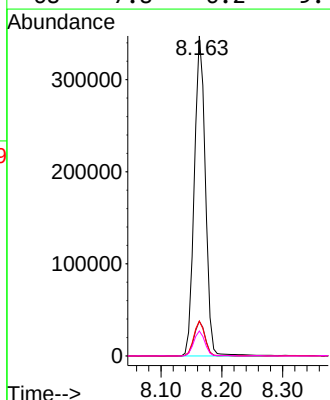
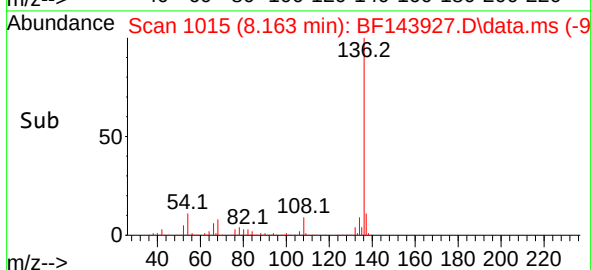
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025

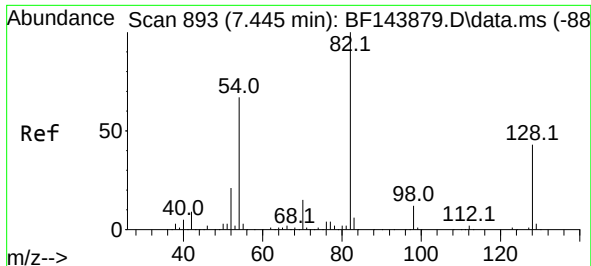


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF143927.D
Acq: 10 Oct 2025 16:20



Tgt Ion:136 Resp: 439825
Ion Ratio Lower Upper
136 100
137 10.8 8.5 12.7
54 10.9 8.2 12.4
68 7.8 6.2 9.4





#23

Nitrobenzene-d5

Concen: 57.030 ng

RT: 7.439 min Scan# 89

Delta R.T. -0.018 min

Lab File: BF143927.D

Acq: 10 Oct 2025 16:20

Instrument :

BNA_F

ClientSampleId :

SS-01-0-1

Tgt Ion: 82 Resp: 41286

Ion Ratio Lower Upper

82 100

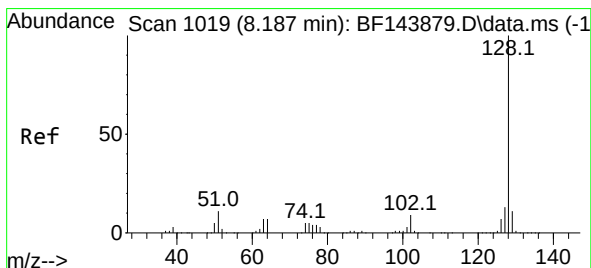
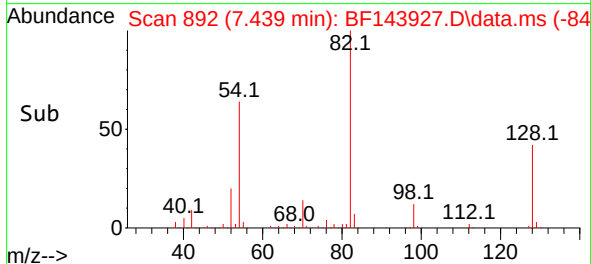
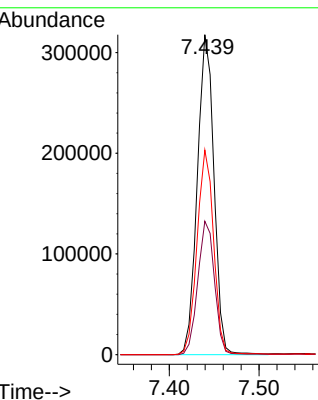
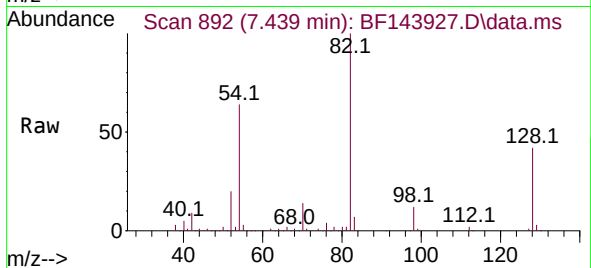
128 41.7 34.0 51.0

54 63.9 53.2 79.8

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#31

Naphthalene

Concen: 3.625 ng

RT: 8.187 min Scan# 1019

Delta R.T. -0.006 min

Lab File: BF143927.D

Acq: 10 Oct 2025 16:20

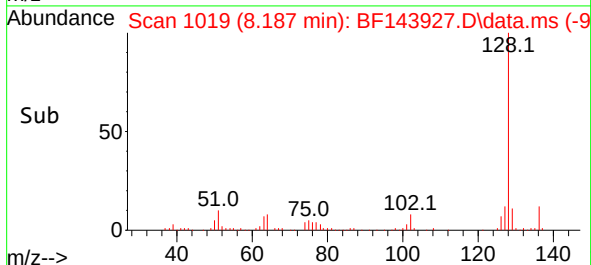
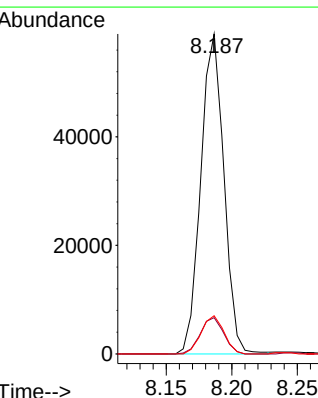
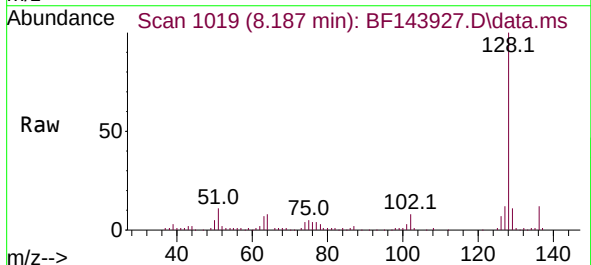
Tgt Ion:128 Resp: 72522

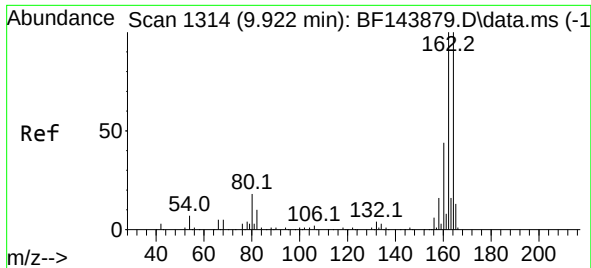
Ion Ratio Lower Upper

128 100

129 11.3 8.7 13.1

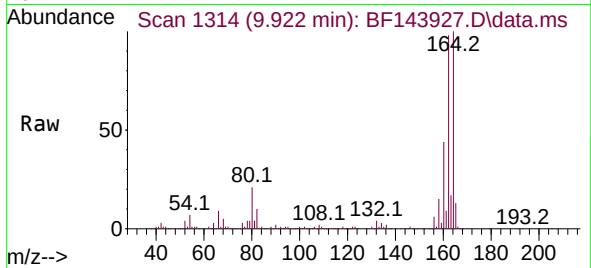
127 11.9 10.0 15.0





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BF143927.D
Acq: 10 Oct 2025 16:20

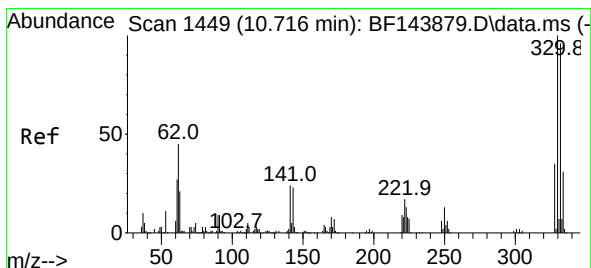
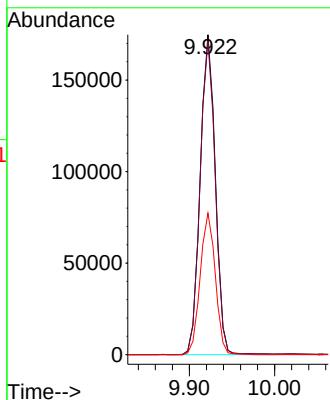
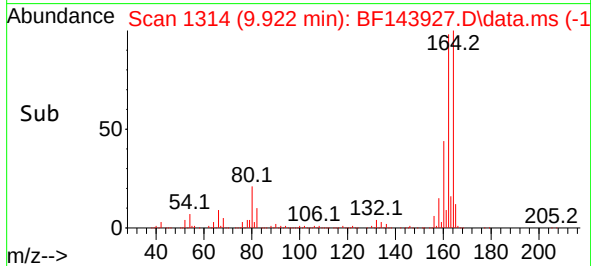
Instrument :
BNA_F
ClientSampleId :
SS-01-0-1



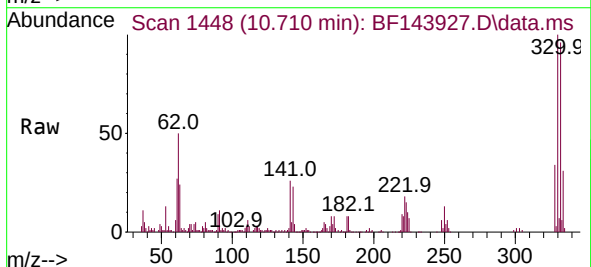
Tgt Ion:164 Resp: 215736
Ion Ratio Lower Upper
164 100
162 98.0 80.2 120.2
160 44.2 35.4 53.0

Manual Integrations
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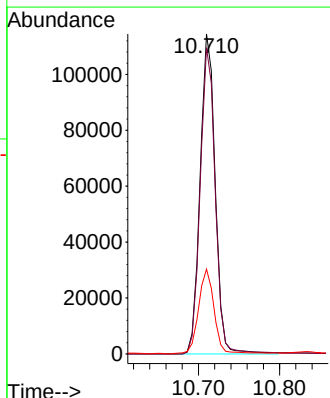
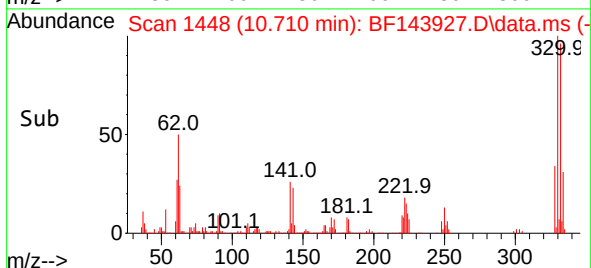
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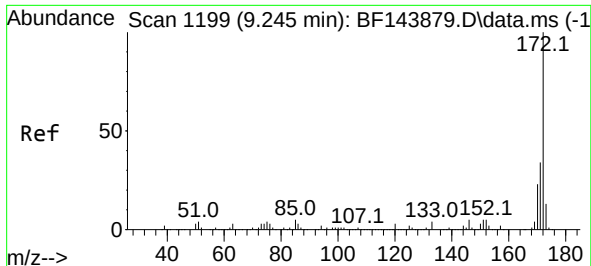


#42
2,4,6-Tribromophenol
Concen: 68.753 ng
RT: 10.710 min Scan# 1448
Delta R.T. -0.012 min
Lab File: BF143927.D
Acq: 10 Oct 2025 16:20



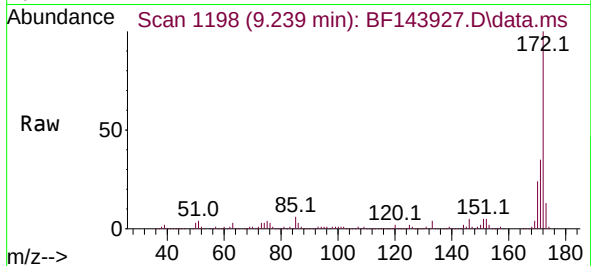
Tgt Ion:330 Resp: 147734
Ion Ratio Lower Upper
330 100
332 95.6 76.9 115.3
141 27.5 20.2 30.4





#45
2-Fluorobiphenyl
Concen: 48.921 ng
RT: 9.239 min Scan# 1199
Delta R.T. -0.012 min
Lab File: BF143927.D
Acq: 10 Oct 2025 16:20

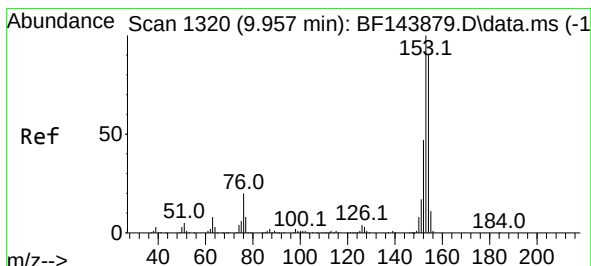
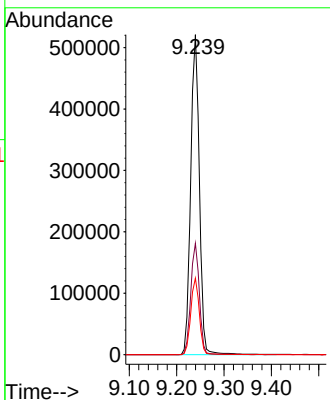
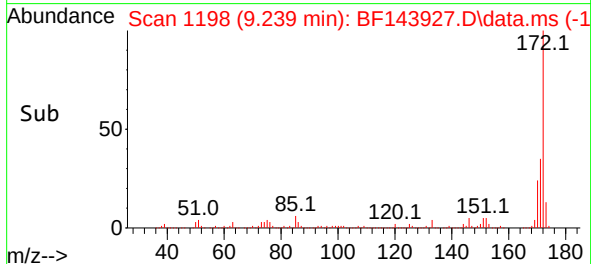
Instrument :
BNA_F
ClientSampleId :
SS-01-0-1



Tgt Ion:172 Resp: 665135
Ion Ratio Lower Upper
172 100
171 34.8 27.4 41.0
170 23.9 18.6 28.0

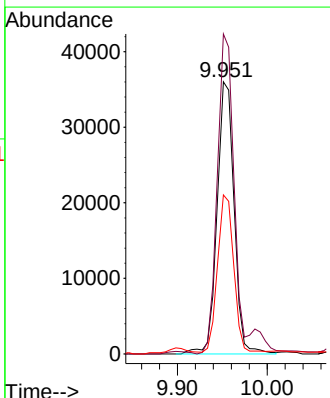
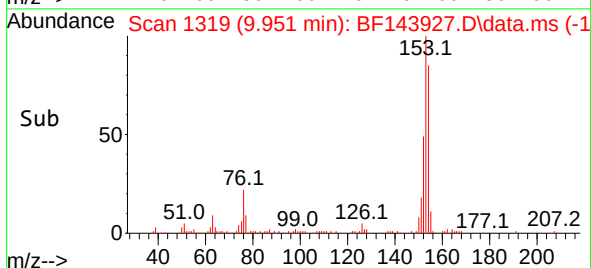
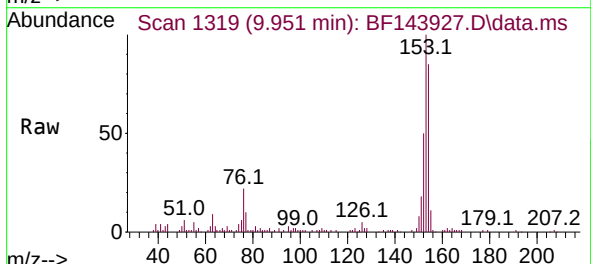
Manual Integrations
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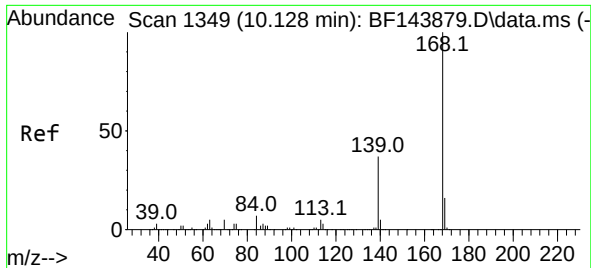
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025



#52
Acenaphthene
Concen: 4.340 ng
RT: 9.951 min Scan# 1319
Delta R.T. -0.012 min
Lab File: BF143927.D
Acq: 10 Oct 2025 16:20

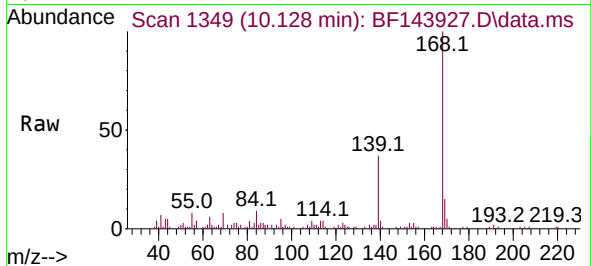
Tgt Ion:154 Resp: 47610
Ion Ratio Lower Upper
154 100
153 117.6 89.3 133.9
152 58.4 42.2 63.2





#55
Dibenzenofuran
Concen: 2.978 ng
RT: 10.128 min Scan# 1349
Delta R.T. -0.006 min
Lab File: BF143927.D
Acq: 10 Oct 2025 16:20

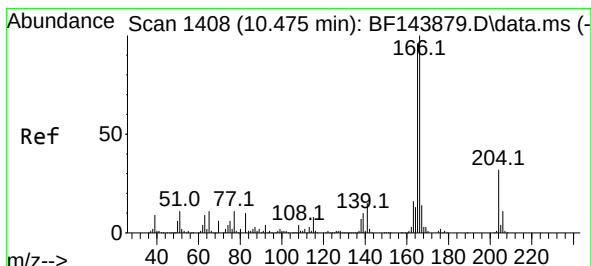
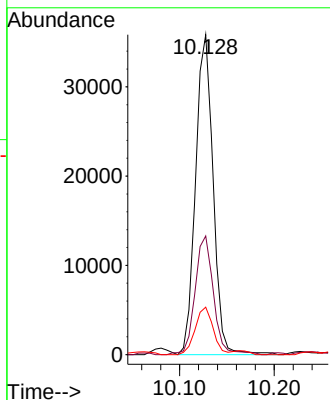
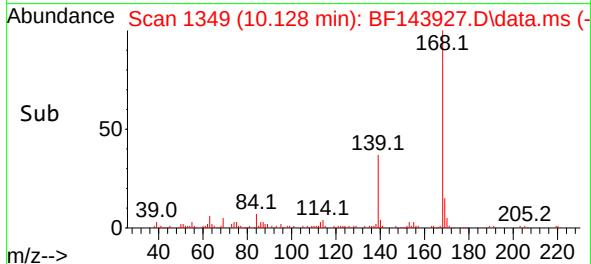
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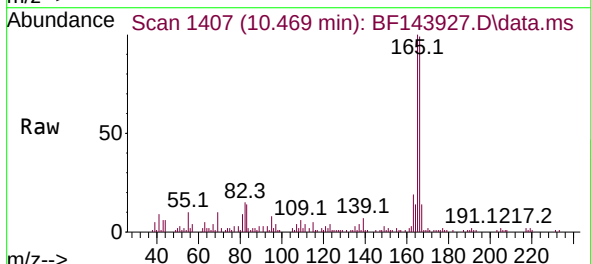
Tgt Ion:168 Resp: 46119
Ion Ratio Lower Upper
168 100
139 37.1 29.8 44.8
169 14.8 12.8 19.2

Manual Integrations
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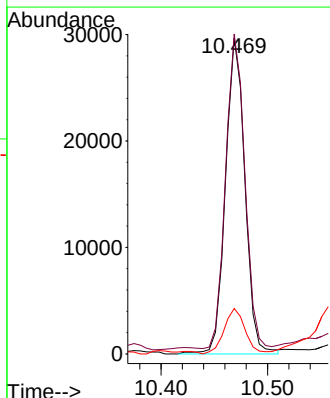
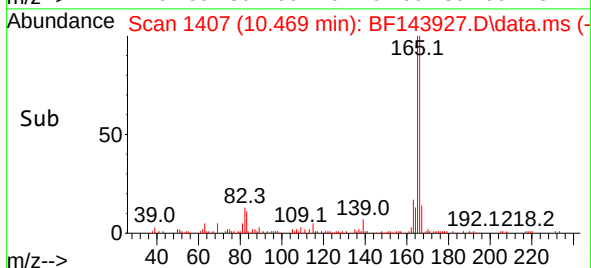
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025

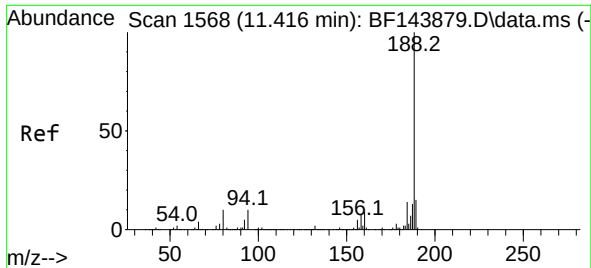


#58
Fluorene
Concen: 3.207 ng
RT: 10.469 min Scan# 1407
Delta R.T. -0.012 min
Lab File: BF143927.D
Acq: 10 Oct 2025 16:20



Tgt Ion:166 Resp: 37477
Ion Ratio Lower Upper
166 100
165 101.3 77.0 115.6
167 14.4 11.1 16.7





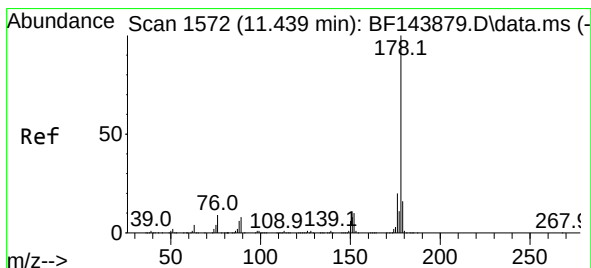
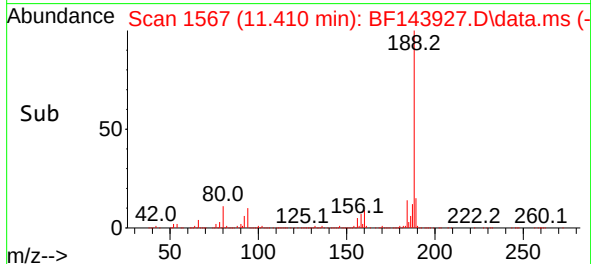
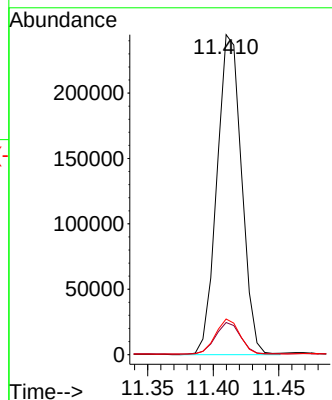
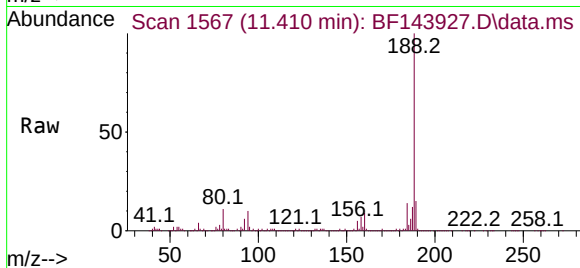
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1568
Delta R.T. -0.006 min
Lab File: BF143927.D
Acq: 10 Oct 2025 16:20

Instrument :
BNA_F
ClientSampleId :
SS-01-0-1

Tgt Ion:188 Resp: 320645
Ion Ratio Lower Upper
188 100
94 10.0 7.8 11.6
80 11.1 7.9 11.9

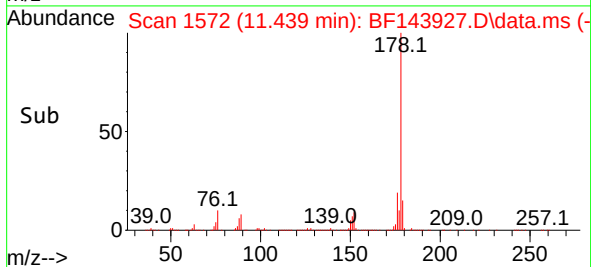
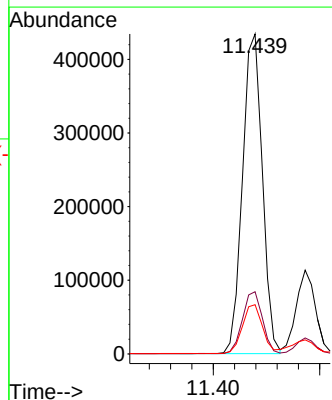
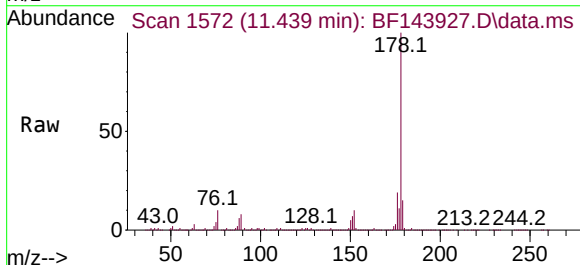
Manual Integrations
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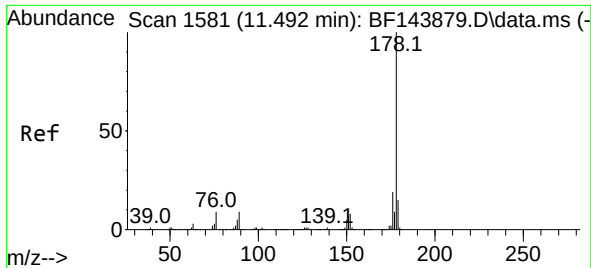
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025



#71
Phenanthrene
Concen: 36.002 ng
RT: 11.439 min Scan# 1572
Delta R.T. -0.006 min
Lab File: BF143927.D
Acq: 10 Oct 2025 16:20

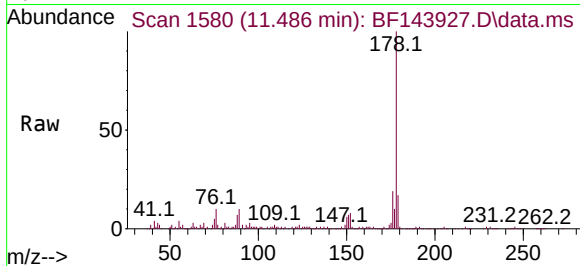
Tgt Ion:178 Resp: 559645
Ion Ratio Lower Upper
178 100
176 19.4 15.9 23.9
179 15.4 12.4 18.6





#72
 Anthracene
 Concen: 9.145 ng
 RT: 11.486 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF143927.D
 Acq: 10 Oct 2025 16:20

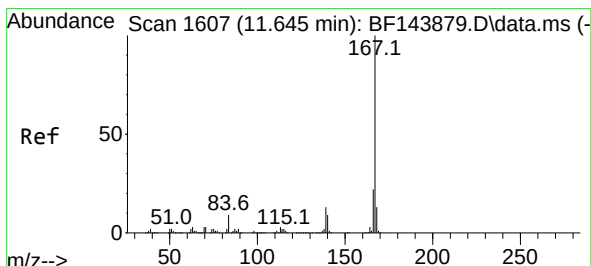
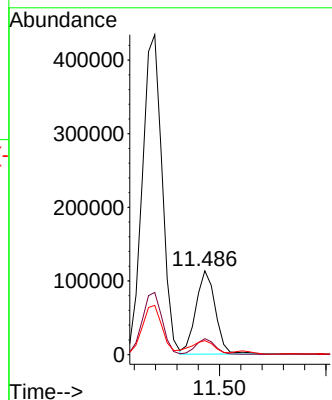
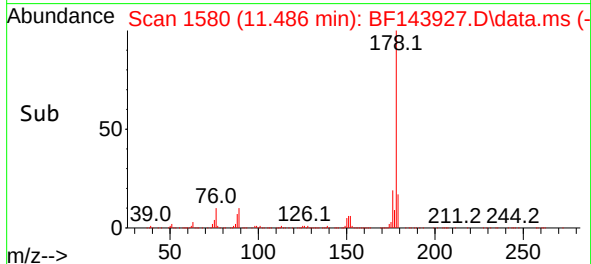
Instrument :
 BNA_F
 ClientSampleId :
 SS-01-0-1



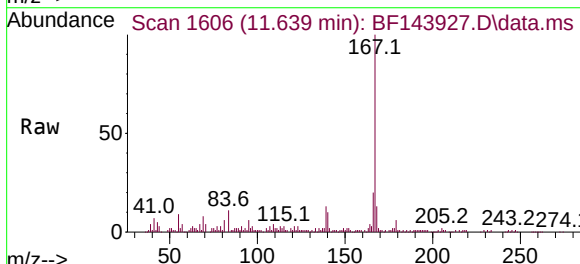
Tgt Ion:178 Resp: 143621
 Ion Ratio Lower Upper
 178 100
 176 19.0 14.9 22.3
 179 16.8 12.2 18.2

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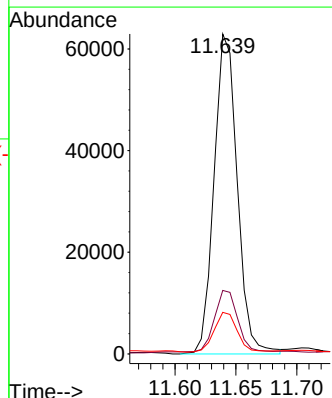
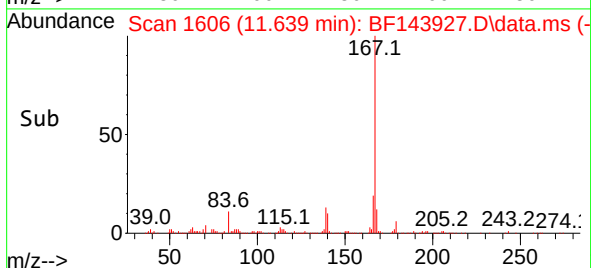
Reviewed By :Jagrut Upadhyay 10/13/2025
 Supervised By :mohammad ahmed 10/15/2025

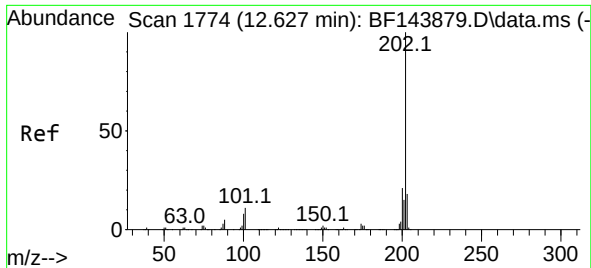


#73
 Carbazole
 Concen: 6.015 ng
 RT: 11.639 min Scan# 1606
 Delta R.T. -0.012 min
 Lab File: BF143927.D
 Acq: 10 Oct 2025 16:20



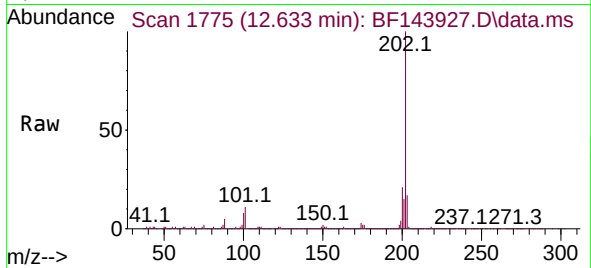
Tgt Ion:167 Resp: 83654
 Ion Ratio Lower Upper
 167 100
 166 19.8 17.2 25.8
 139 13.0 10.1 15.1





#75
Fluoranthene
Concen: 43.072 ng
RT: 12.633 min Scan# 1775
Delta R.T. 0.000 min
Lab File: BF143927.D
Acq: 10 Oct 2025 16:20

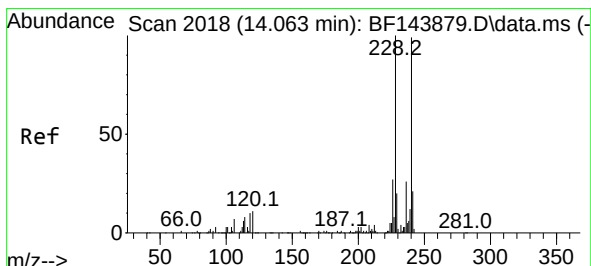
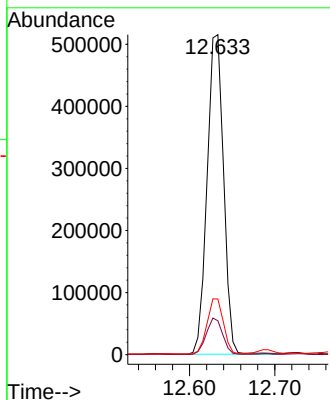
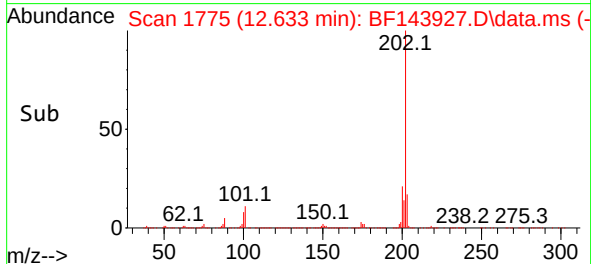
Instrument :
BNA_F
ClientSampleId :
SS-01-0-1



Tgt Ion:202 Resp: 691596
Ion Ratio Lower Upper
202 100
101 10.6 0.0 30.7
203 17.4 0.0 37.8

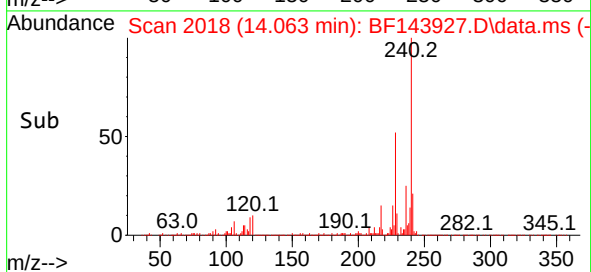
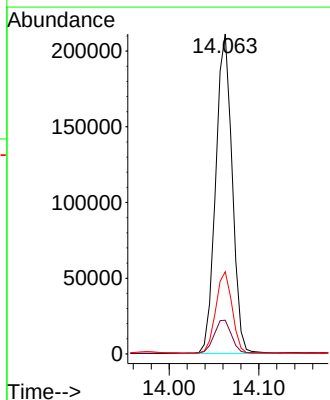
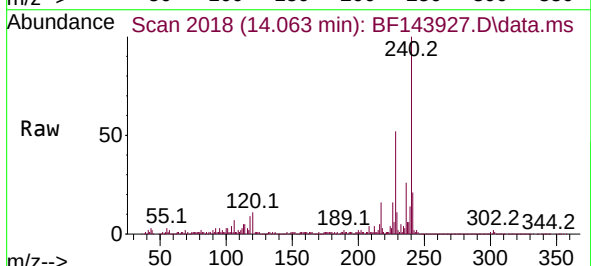
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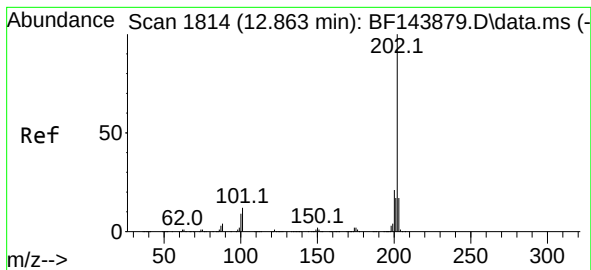
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.005 min
Lab File: BF143927.D
Acq: 10 Oct 2025 16:20

Tgt Ion:240 Resp: 271231
Ion Ratio Lower Upper
240 100
120 10.5 8.6 13.0
236 25.7 21.1 31.7





#78

Pyrene

Concen: 25.028 ng

RT: 12.863 min Scan# 1814

Delta R.T. 0.000 min

Lab File: BF143927.D

Acq: 10 Oct 2025 16:20

Instrument :

BNA_F

ClientSampleId :

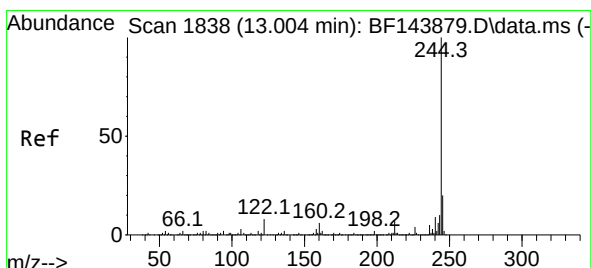
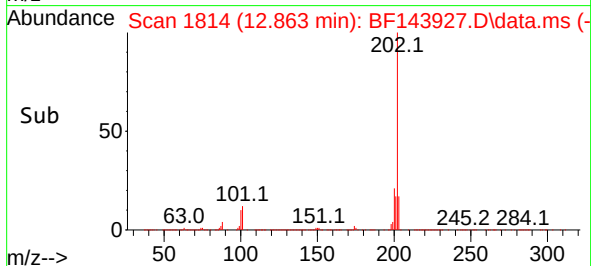
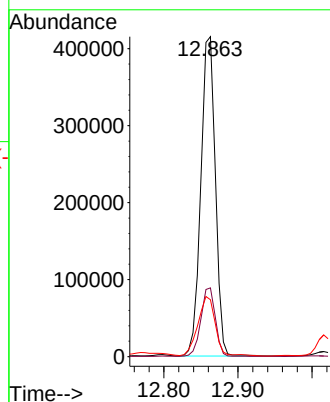
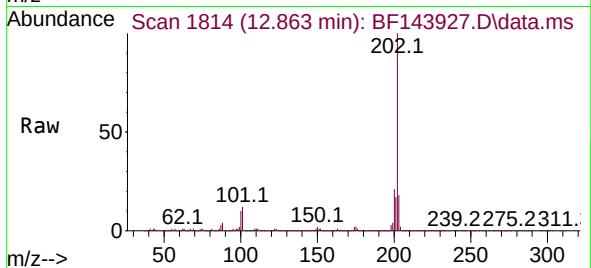
SS-01-0-1

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.0	25.6
203	17.8	13.8	20.6

Manual Integrations

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Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025



#79

Terphenyl-d14

Concen: 34.687 ng

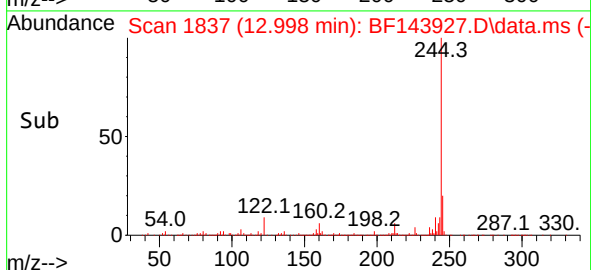
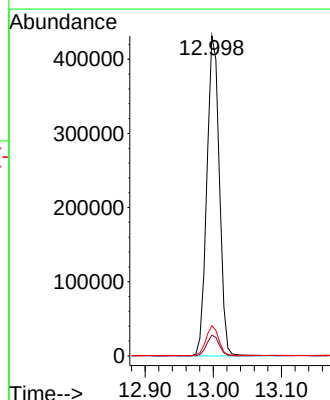
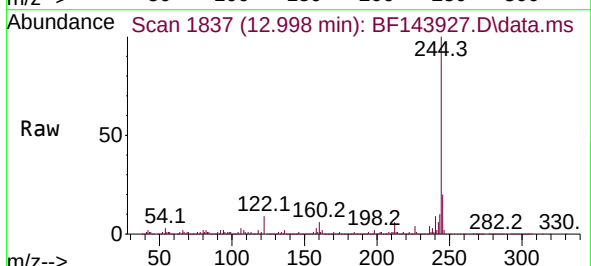
RT: 12.998 min Scan# 1837

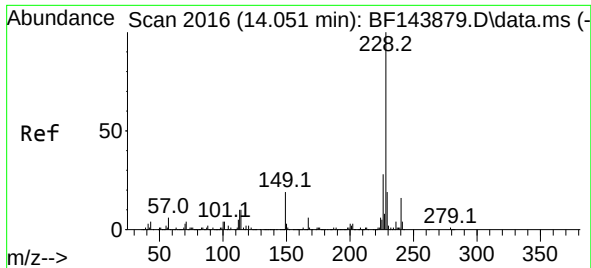
Delta R.T. -0.012 min

Lab File: BF143927.D

Acq: 10 Oct 2025 16:20

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.4	8.0
122	9.4	6.4	9.6





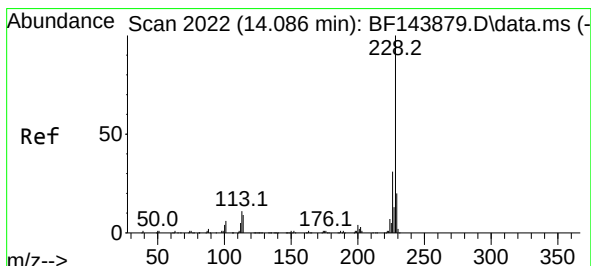
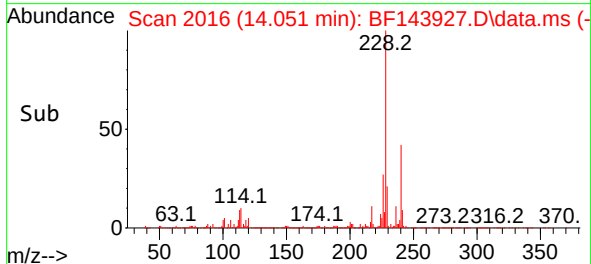
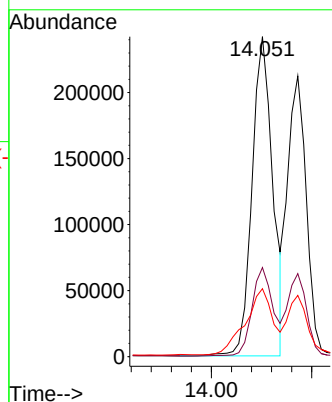
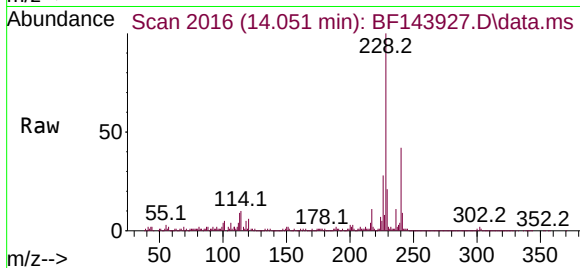
#81
Benzo(a)anthracene
Concen: 19.585 ng
RT: 14.051 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF143927.D
Acq: 10 Oct 2025 16:20

Instrument :
BNA_F
ClientSampleId :
SS-01-0-1

Tgt Ion:228 Resp: 347624
Ion Ratio Lower Upper
228 100
226 27.8 22.2 33.2
229 21.2 15.6 23.4

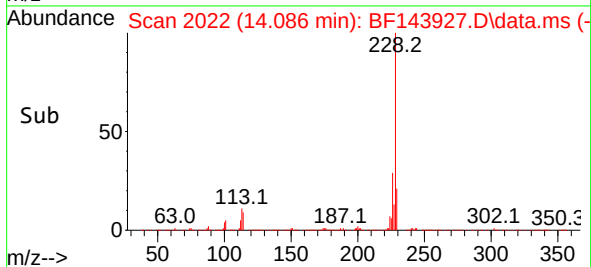
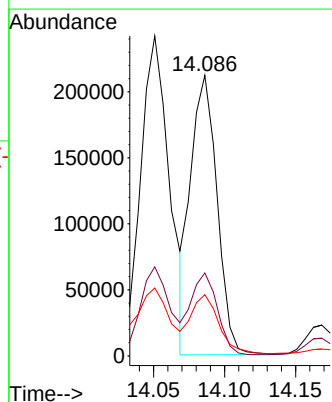
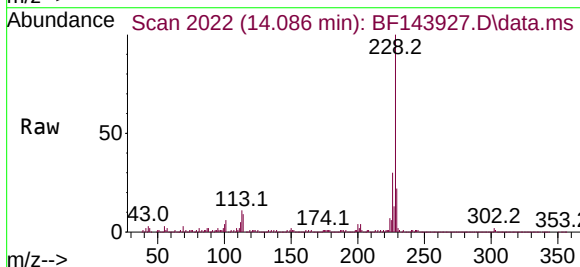
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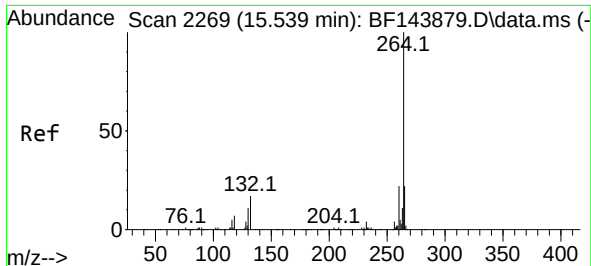
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025



#83
Chrysene
Concen: 16.683 ng
RT: 14.086 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF143927.D
Acq: 10 Oct 2025 16:20

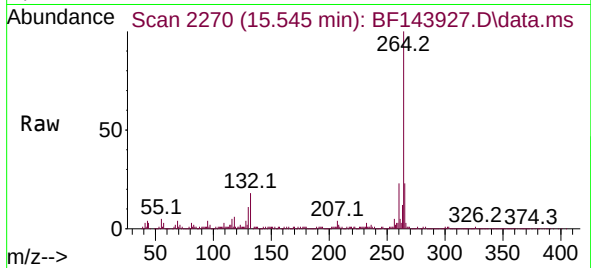
Tgt Ion:228 Resp: 274054
Ion Ratio Lower Upper
228 100
226 29.5 24.4 36.6
229 21.8 15.9 23.9





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF143927.D
Acq: 10 Oct 2025 16:20

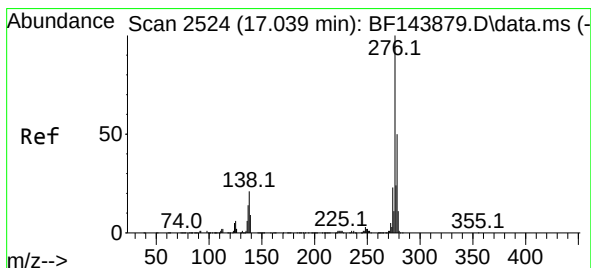
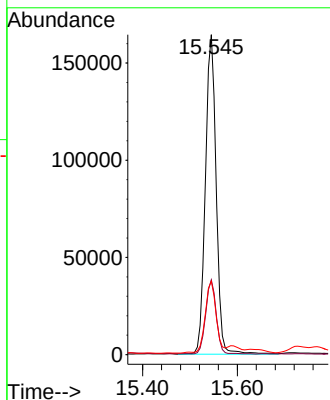
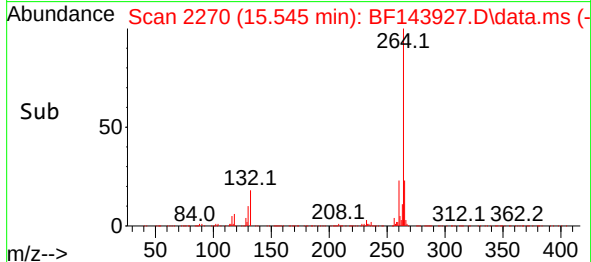
Instrument :
BNA_F
ClientSampleId :
SS-01-0-1



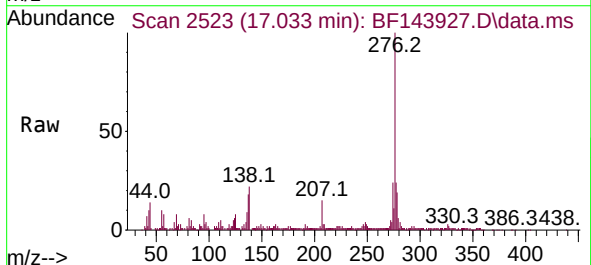
Tgt Ion:264 Resp: 26059
Ion Ratio Lower Upper
264 100
260 23.4 17.8 26.8
265 22.9 17.5 26.3

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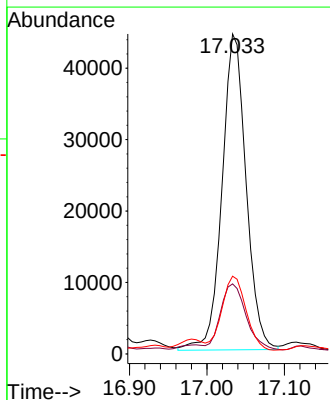
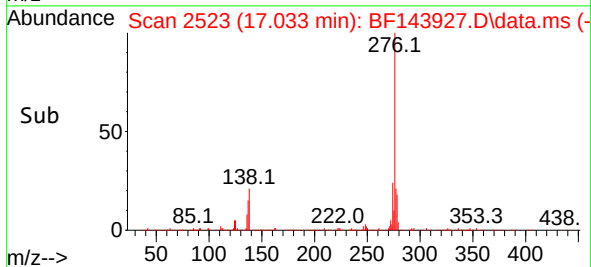
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025

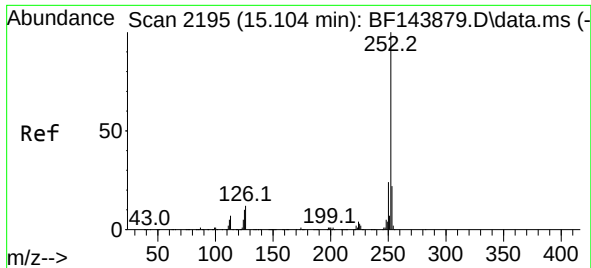


#87
Indeno(1,2,3-cd)pyrene
Concen: 5.989 ng
RT: 17.033 min Scan# 2523
Delta R.T. -0.023 min
Lab File: BF143927.D
Acq: 10 Oct 2025 16:20



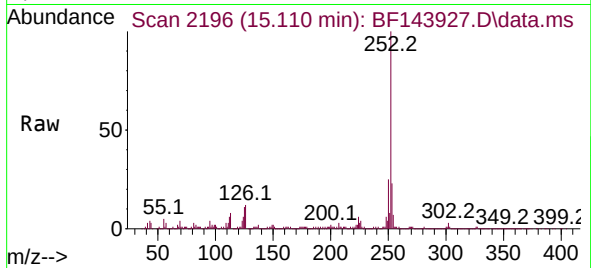
Tgt Ion:276 Resp: 95630
Ion Ratio Lower Upper
276 100
138 22.0 18.2 27.2
277 23.5 19.8 29.6





#88
Benzo(b)fluoranthene
Concen: 22.835 ng m
RT: 15.110 min Scan# 2195
Delta R.T. -0.006 min
Lab File: BF143927.D
Acq: 10 Oct 2025 16:20

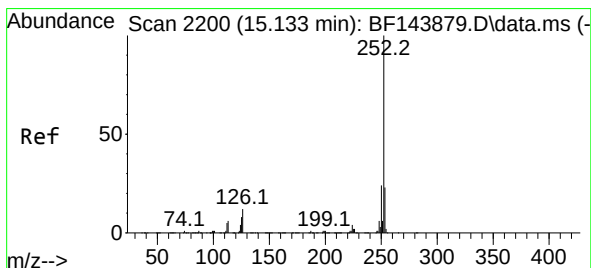
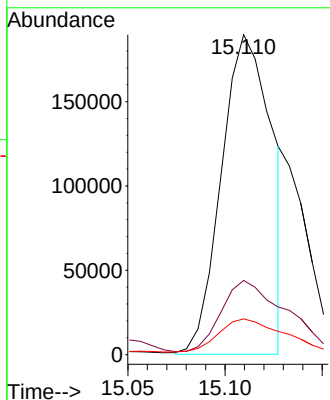
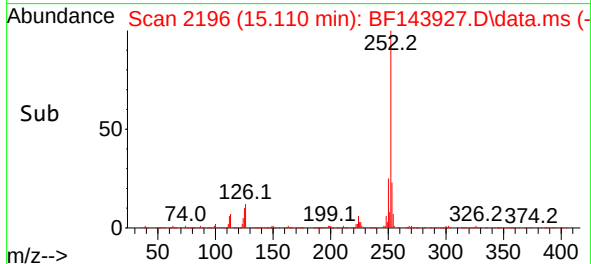
Instrument :
BNA_F
ClientSampleId :
SS-01-0-1



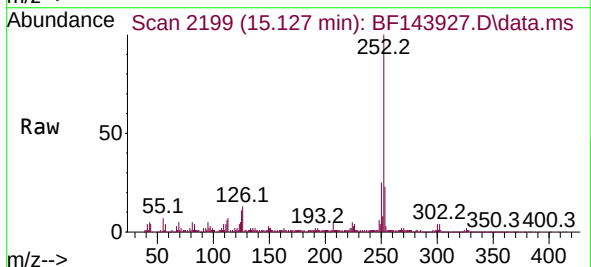
Tgt Ion:252 Resp: 341815
Ion Ratio Lower Upper
252 100
253 23.2 17.4 26.2
125 11.2 7.8 11.6

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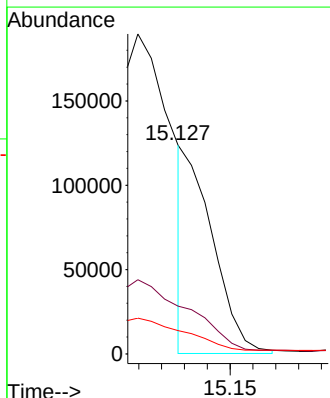
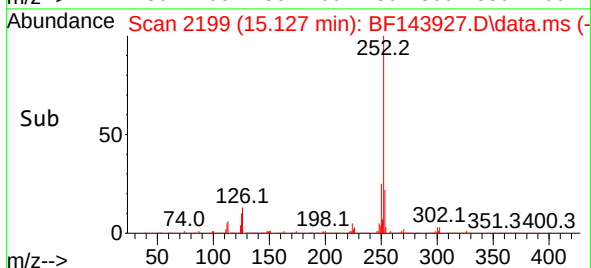
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025

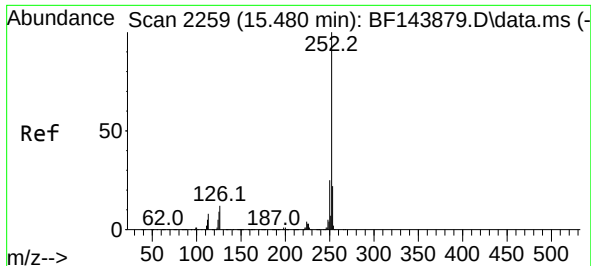


#89
Benzo(k)fluoranthene
Concen: 7.433 ng m
RT: 15.127 min Scan# 2199
Delta R.T. -0.018 min
Lab File: BF143927.D
Acq: 10 Oct 2025 16:20



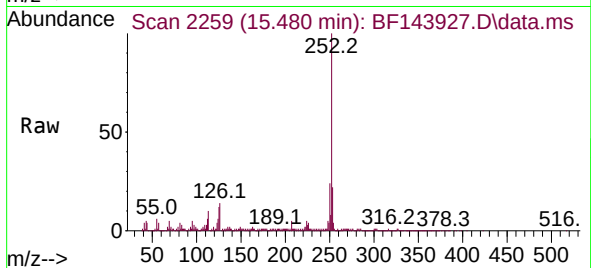
Tgt Ion:252 Resp: 102950
Ion Ratio Lower Upper
252 100
253 22.9 17.8 26.8
125 11.2 7.4 11.2#





#90
Benzo(a)pyrene
Concen: 15.701 ng
RT: 15.480 min Scan# 2259
Delta R.T. -0.006 min
Lab File: BF143927.D
Acq: 10 Oct 2025 16:20

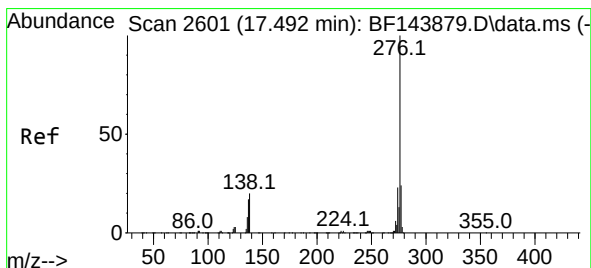
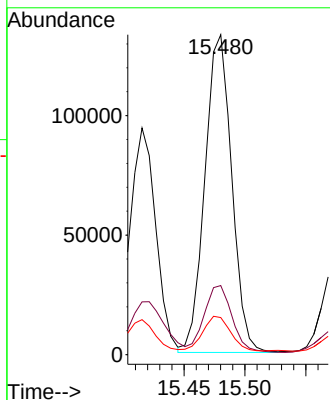
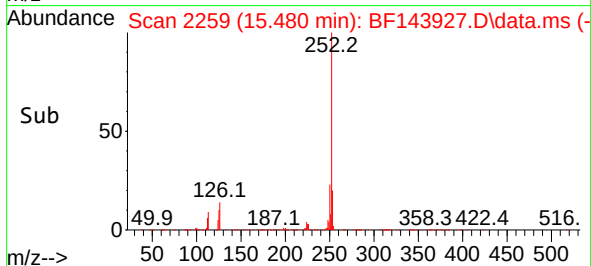
Instrument :
BNA_F
ClientSampleId :
SS-01-0-1



Tgt Ion:252 Resp: 203794
Ion Ratio Lower Upper
252 100
253 21.6 17.3 25.9
125 11.6 7.0 10.4

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Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025



#92
Benzo(g,h,i)perylene
Concen: 7.021 ng
RT: 17.492 min Scan# 2601
Delta R.T. -0.023 min
Lab File: BF143927.D
Acq: 10 Oct 2025 16:20

Tgt Ion:276 Resp: 90167
Ion Ratio Lower Upper
276 100
277 24.3 19.0 28.6
138 24.6 16.1 24.1

