

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101025\
 Data File : BF143925.D
 Acq On : 10 Oct 2025 15:23
 Operator : RC/JU
 Sample : Q3322-01 2X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-100925

Manual Integrations
 APPROVED

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

Quant Time: Oct 10 15:50:46 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	120482	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	445685	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	220860	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	331208	20.000	ng	0.00
76) Chrysene-d12	14.063	240	282779	20.000	ng	0.00
86) Perylene-d12	15.545	264	295476	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	235052	30.981	ng	0.00
7) Phenol-d6	6.498	99	264186	29.213	ng	-0.02
23) Nitrobenzene-d5	7.439	82	158325	21.583	ng	-0.02
42) 2,4,6-Tribromophenol	10.710	330	50388	22.906	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	317712	22.826	ng	-0.01
79) Terphenyl-d14	12.998	244	289836	17.517	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.186	128	48867	2.410	ng	99
52) Acenaphthene	9.951	154	63457	5.650	ng	95
55) Dibenzofuran	10.128	168	47575	3.001	ng	96
58) Fluorene	10.469	166	82984	6.937	ng	98
71) Phenanthrene	11.439	178	639871	39.850	ng	100
72) Anthracene	11.486	178	206124	12.707	ng	98
73) Carbazole	11.639	167	76003	5.290	ng	98
75) Fluoranthene	12.633	202	1067525	64.364	ng	99
78) Pyrene	12.863	202	977631	41.469	ng	99
81) Benzo(a)anthracene	14.051	228	585438	31.636	ng	96
83) Chrysene	14.086	228	475934	27.789	ng	98
87) Indeno(1,2,3-cd)pyrene	17.039	276	169069	9.338	ng	99
88) Benzo(b)fluoranthene	15.110	252	581881m	34.283	ng	
89) Benzo(k)fluoranthene	15.127	252	202653m	12.903	ng	
90) Benzo(a)pyrene	15.480	252	403732	27.432	ng	96
91) Dibenzo(a,h)anthracene	17.051	278	46290	3.179	ng	# 92
92) Benzo(g,h,i)perylene	17.492	276	156320	10.735	ng	95

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

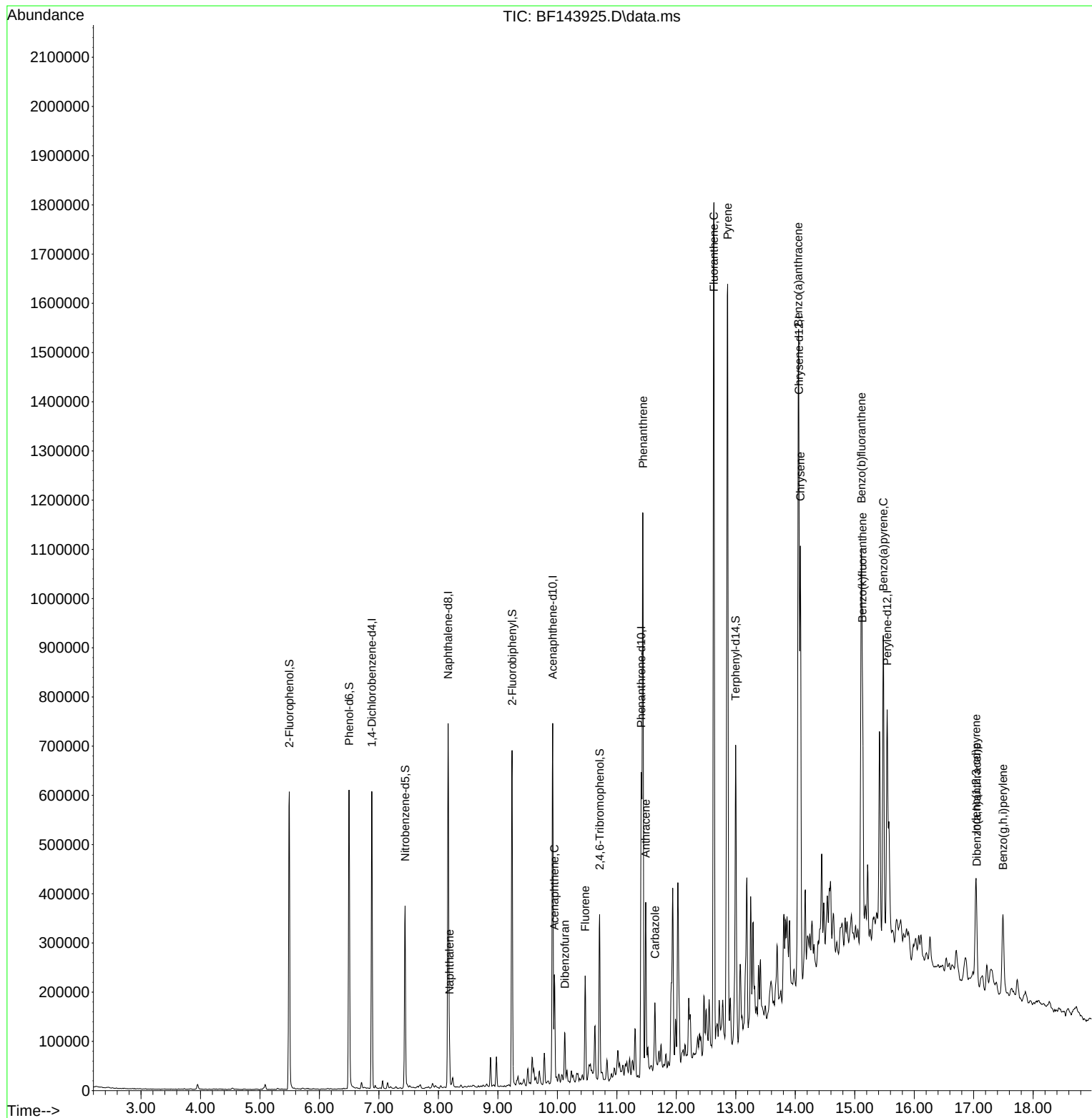
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101025\
Data File : BF143925.D
Acq On : 10 Oct 2025 15:23
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ALS Vial : 11 Sample Multiplier: 1

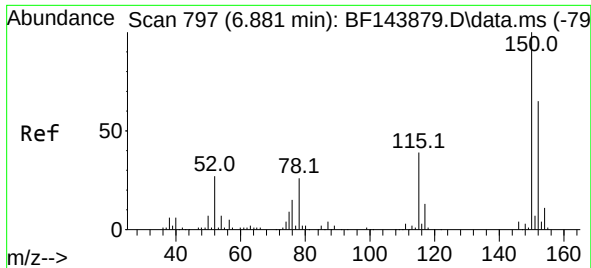
Instrument :
BNA_F
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Quant Time: Oct 10 15:50:46 2025
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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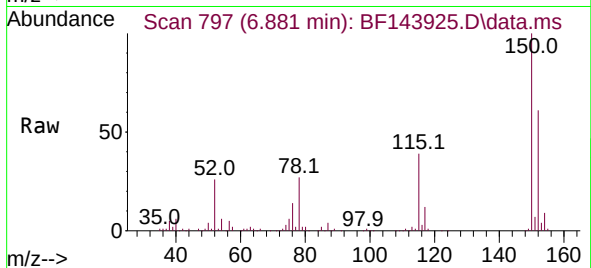
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 797
Delta R.T. -0.005 min
Lab File: BF143925.D
Acq: 10 Oct 2025 15:23

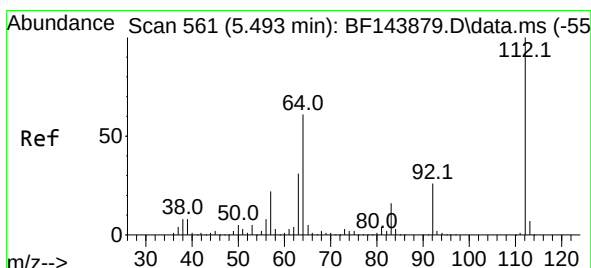
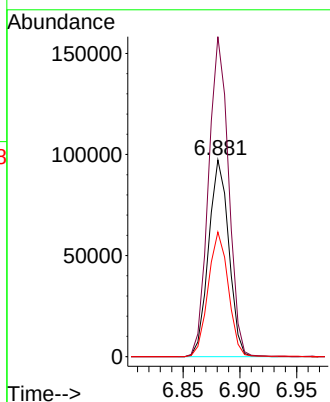
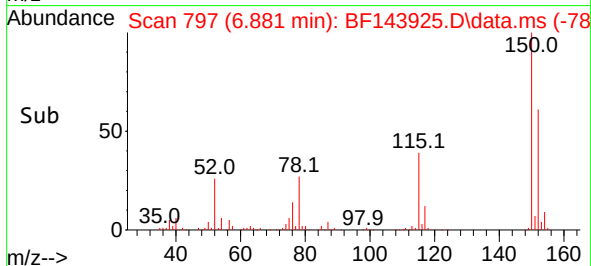
Instrument :
BNA_F
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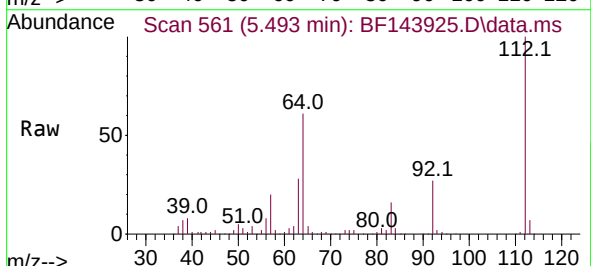
Tgt Ion:152 Resp: 120482
Ion Ratio Lower Upper
152 100
150 162.6 124.4 186.6
115 63.3 48.1 72.1

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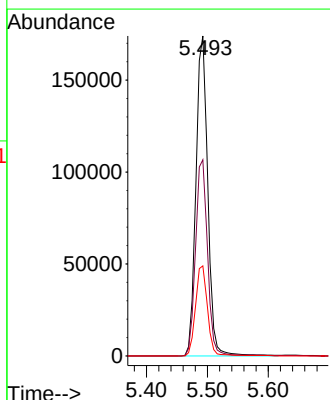
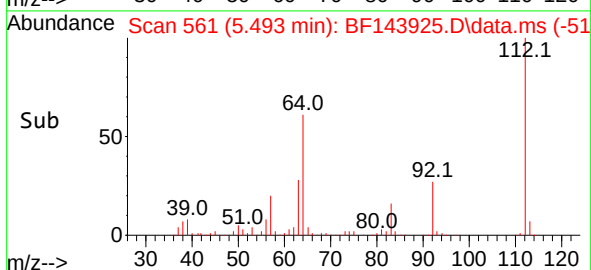
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Supervised By :mohammad ahmed 10/15/2025

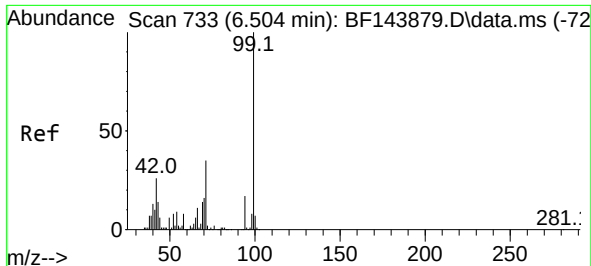


#5
2-Fluorophenol
Concen: 30.981 ng
RT: 5.493 min Scan# 561
Delta R.T. -0.006 min
Lab File: BF143925.D
Acq: 10 Oct 2025 15:23



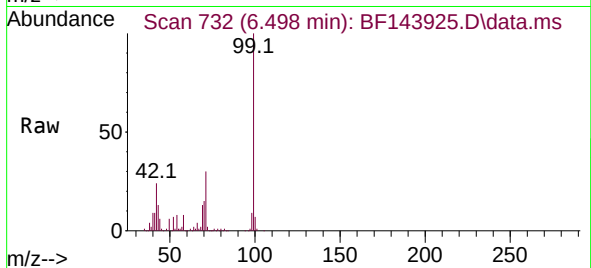
Tgt Ion:112 Resp: 235052
Ion Ratio Lower Upper
112 100
64 61.3 49.1 73.7
63 28.1 24.5 36.7





#7
Phenol-d6
Concen: 29.213 ng
RT: 6.498 min Scan# 733
Delta R.T. -0.018 min
Lab File: BF143925.D
Acq: 10 Oct 2025 15:23

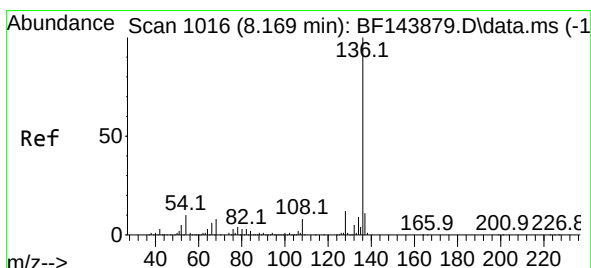
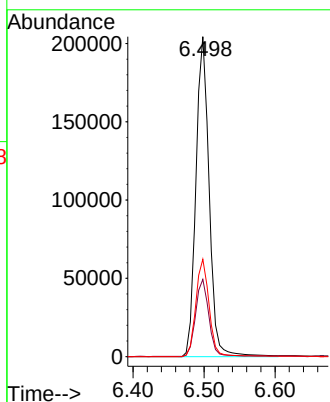
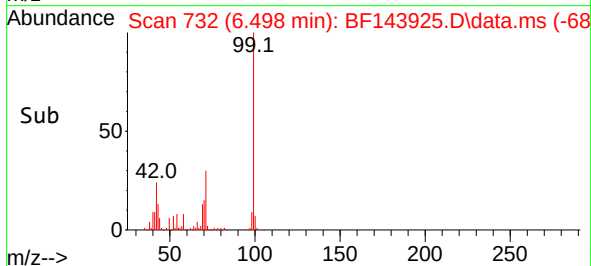
Instrument :
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ClientSampleId :
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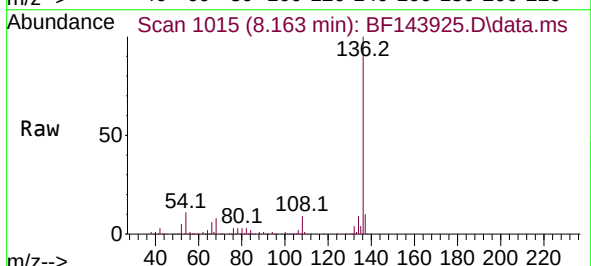
Tgt Ion: 99 Resp: 264186
Ion Ratio Lower Upper
99 100
42 24.1 21.0 31.4
71 30.4 27.8 41.8

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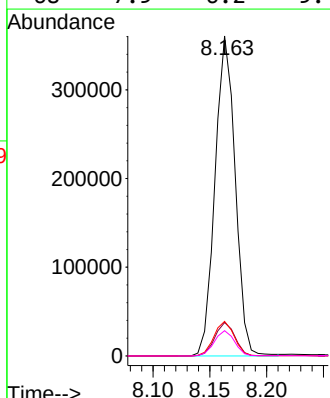
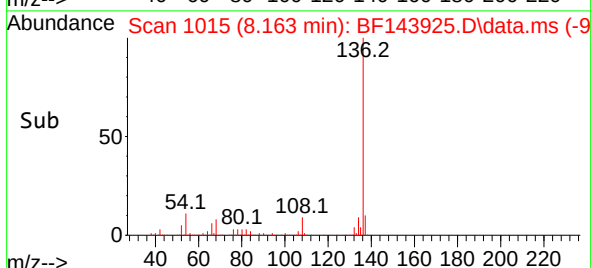
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025

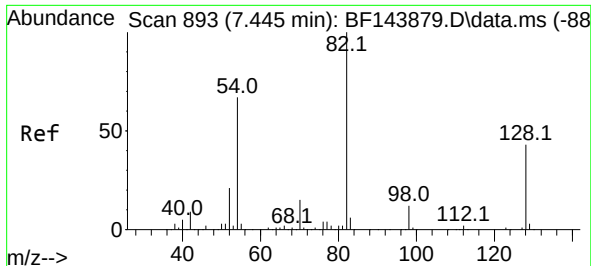


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF143925.D
Acq: 10 Oct 2025 15:23



Tgt Ion:136 Resp: 445685
Ion Ratio Lower Upper
136 100
137 10.4 8.5 12.7
54 10.8 8.2 12.4
68 7.9 6.2 9.4





#23

Nitrobenzene-d5

Concen: 21.583 ng

RT: 7.439 min Scan# 893

Delta R.T. -0.018 min

Lab File: BF143925.D

Acq: 10 Oct 2025 15:23

Instrument :

BNA_F

ClientSampleId :

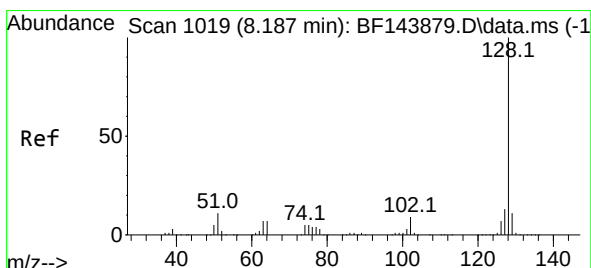
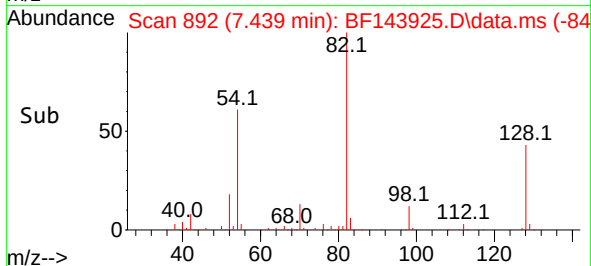
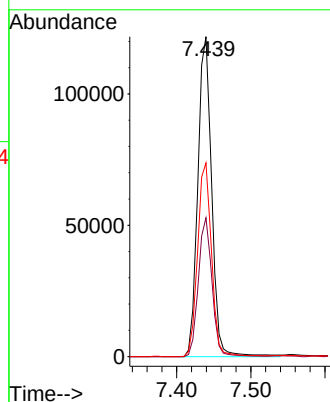
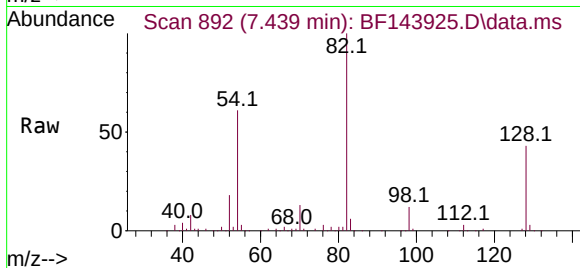
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Tgt Ion: 82 Resp: 158325
 Ion Ratio Lower Upper
 82 100
 128 43.4 34.0 51.0
 54 60.5 53.2 79.8

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#31

Naphthalene

Concen: 2.410 ng

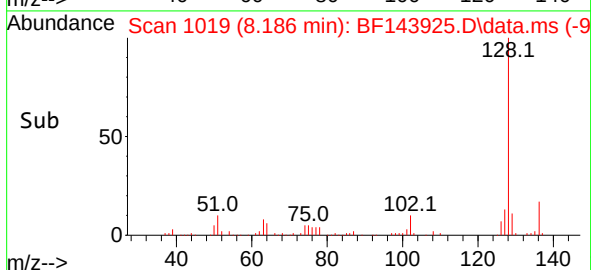
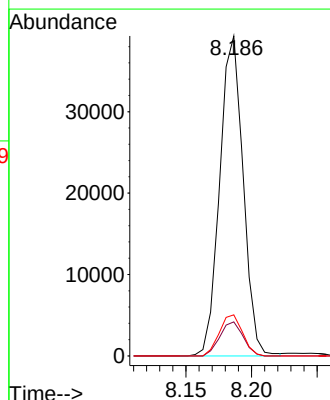
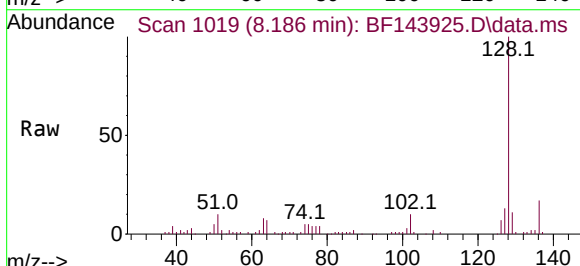
RT: 8.186 min Scan# 1019

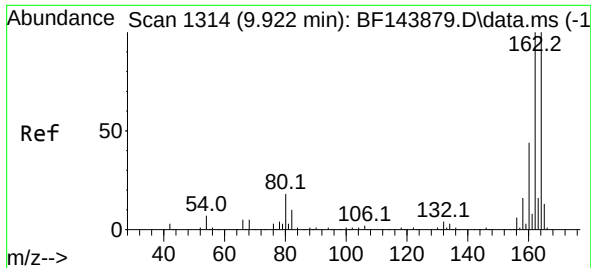
Delta R.T. -0.006 min

Lab File: BF143925.D

Acq: 10 Oct 2025 15:23

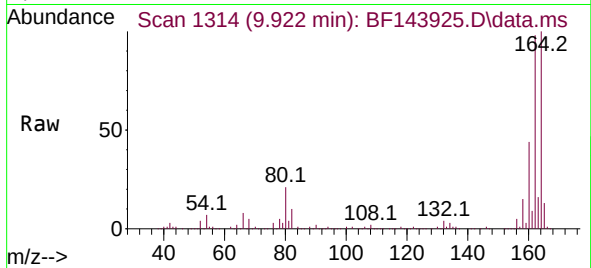
Tgt Ion:128 Resp: 48867
 Ion Ratio Lower Upper
 128 100
 129 10.6 8.7 13.1
 127 12.8 10.0 15.0





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BF143925.D
Acq: 10 Oct 2025 15:23

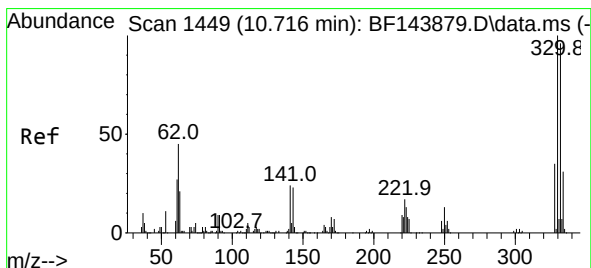
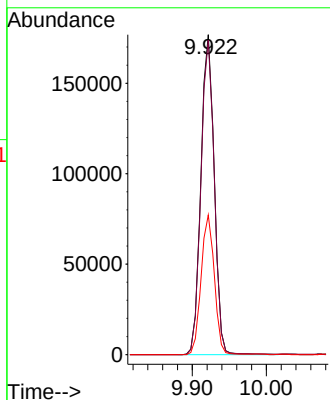
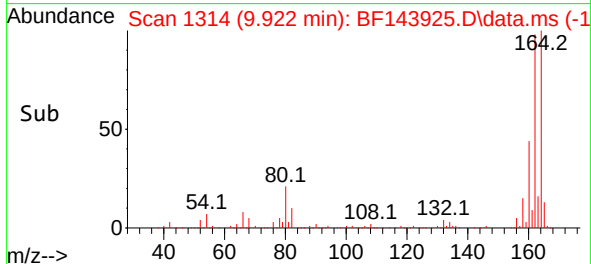
Instrument :
BNA_F
ClientSampleId :
OR-02-100925



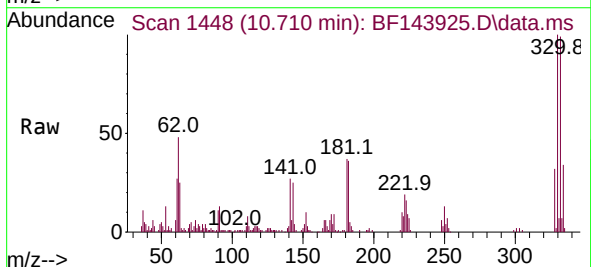
Tgt Ion:164 Resp: 220860
Ion Ratio Lower Upper
164 100
162 98.3 80.2 120.2
160 43.6 35.4 53.0

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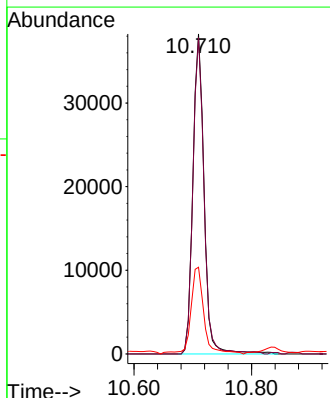
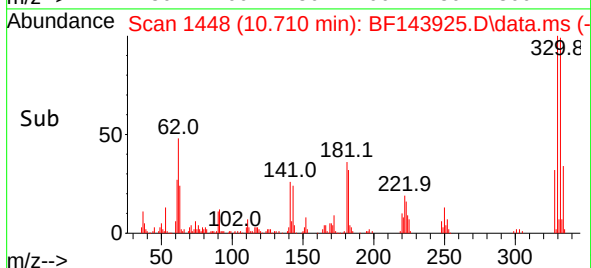
Reviewed By :Jagrut Upadhyay 10/13/2025
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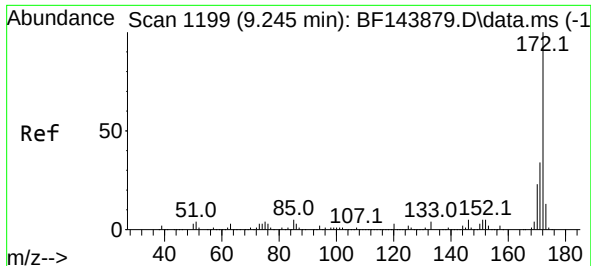


#42
2,4,6-Tribromophenol
Concen: 22.906 ng
RT: 10.710 min Scan# 1448
Delta R.T. -0.012 min
Lab File: BF143925.D
Acq: 10 Oct 2025 15:23



Tgt Ion:330 Resp: 50388
Ion Ratio Lower Upper
330 100
332 98.6 76.9 115.3
141 31.5 20.2 30.4#





#45

2-Fluorobiphenyl

Concen: 22.826 ng

RT: 9.239 min Scan# 1199

Delta R.T. -0.012 min

Lab File: BF143925.D

Acq: 10 Oct 2025 15:23

Instrument :

BNA_F

ClientSampleId :

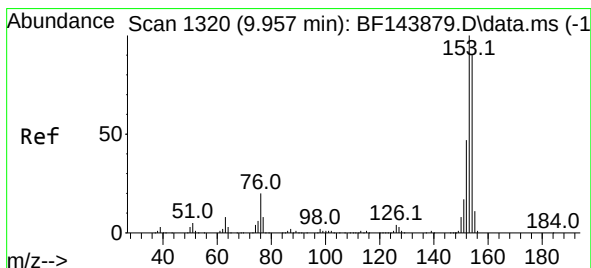
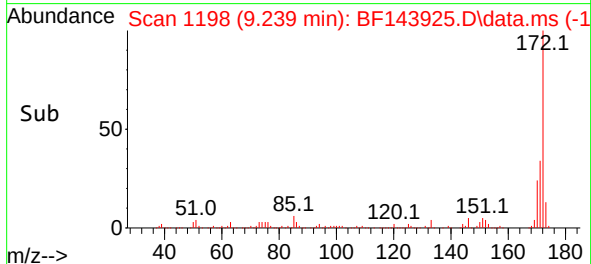
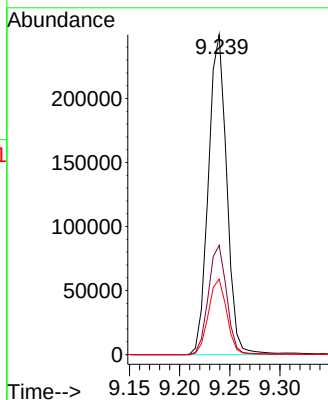
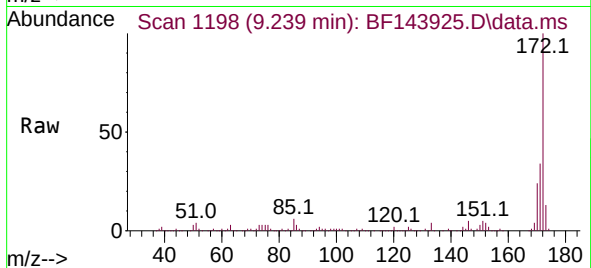
OR-02-100925

Tgt Ion:172 Resp: 317712
 Ion Ratio Lower Upper
 172 100
 171 34.1 27.4 41.0
 170 23.6 18.6 28.0

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#52

Acenaphthene

Concen: 5.650 ng

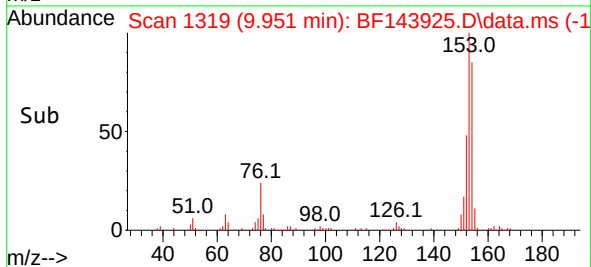
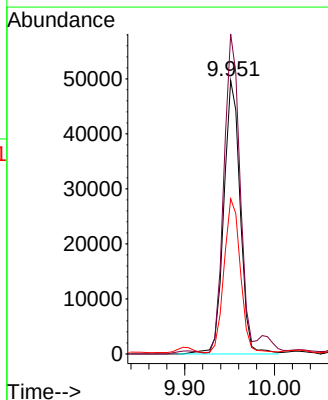
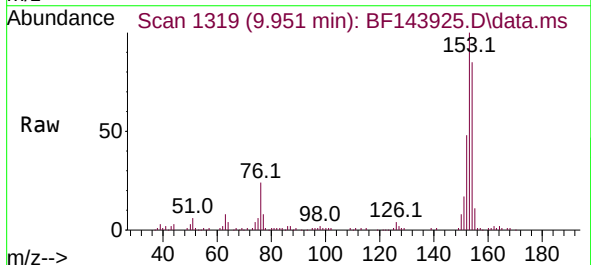
RT: 9.951 min Scan# 1319

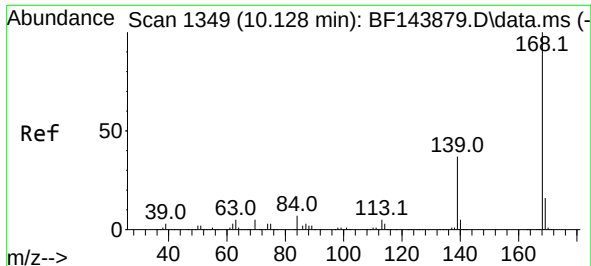
Delta R.T. -0.012 min

Lab File: BF143925.D

Acq: 10 Oct 2025 15:23

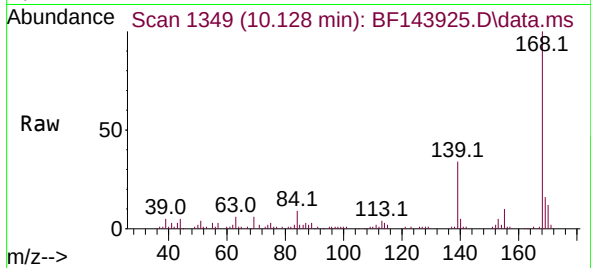
Tgt Ion:154 Resp: 63457
 Ion Ratio Lower Upper
 154 100
 153 117.1 89.3 133.9
 152 56.8 42.2 63.2





#55
Dibenzenofuran
Concen: 3.001 ng
RT: 10.128 min Scan# 1349
Delta R.T. -0.006 min
Lab File: BF143925.D
Acq: 10 Oct 2025 15:23

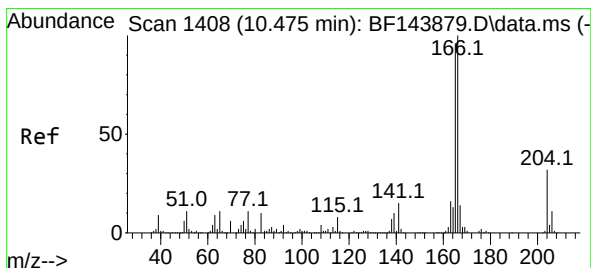
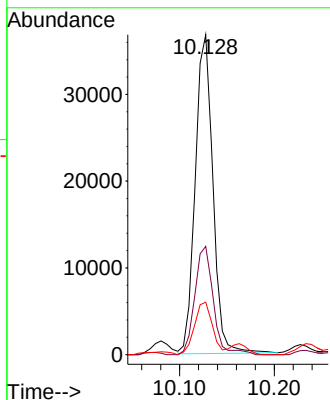
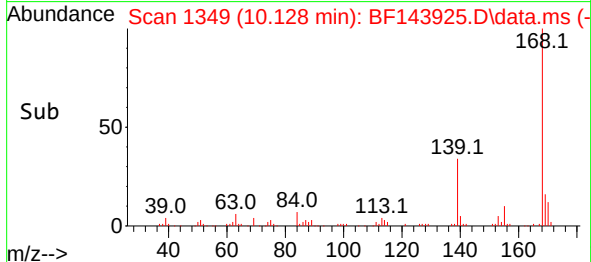
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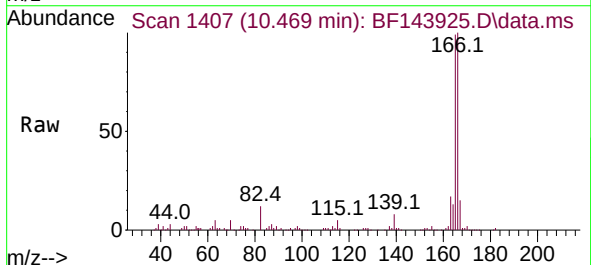
Tgt Ion:168 Resp: 47575
Ion Ratio Lower Upper
168 100
139 33.8 29.8 44.8
169 16.4 12.8 19.2

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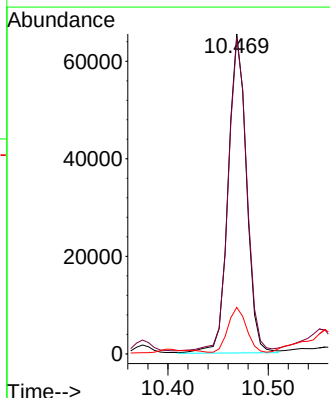
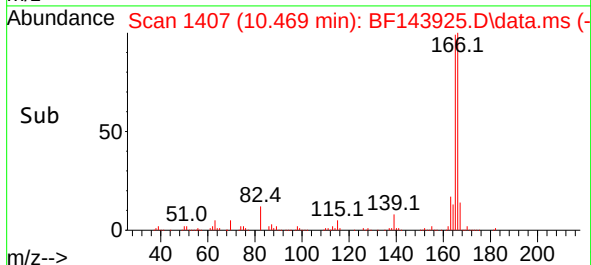
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025

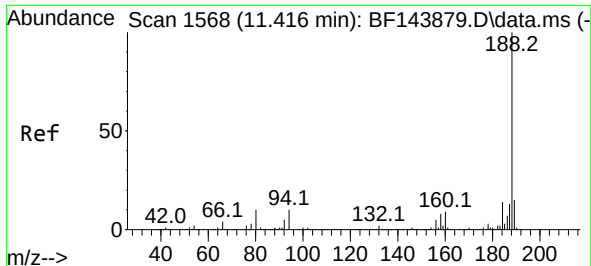


#58
Fluorene
Concen: 6.937 ng
RT: 10.469 min Scan# 1407
Delta R.T. -0.012 min
Lab File: BF143925.D
Acq: 10 Oct 2025 15:23



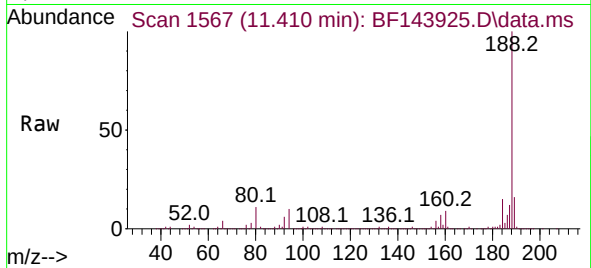
Tgt Ion:166 Resp: 82984
Ion Ratio Lower Upper
166 100
165 98.8 77.0 115.6
167 14.5 11.1 16.7





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1568
Delta R.T. -0.006 min
Lab File: BF143925.D
Acq: 10 Oct 2025 15:23

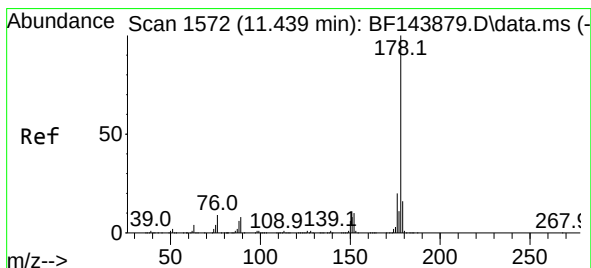
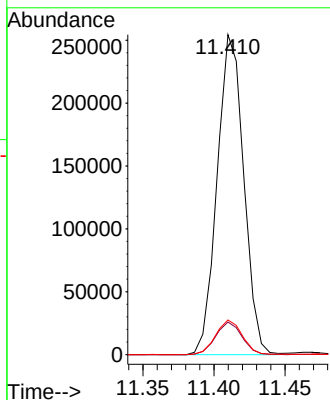
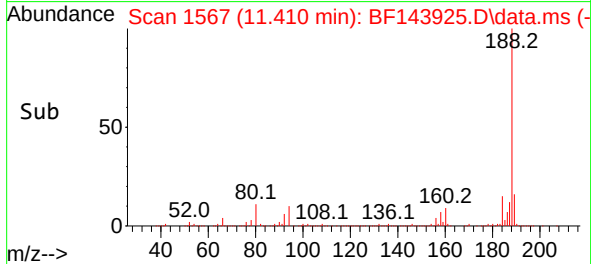
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Tgt Ion:188 Resp: 331208
Ion Ratio Lower Upper
188 100
94 10.2 7.8 11.6
80 10.8 7.9 11.9

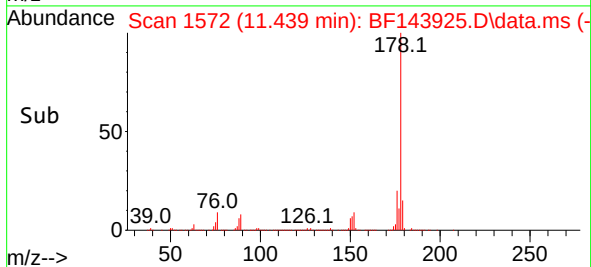
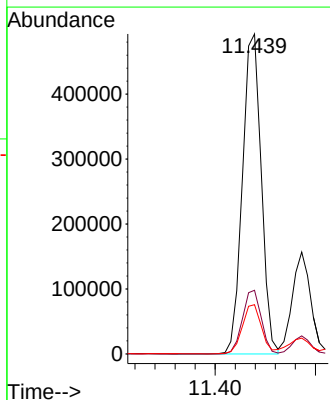
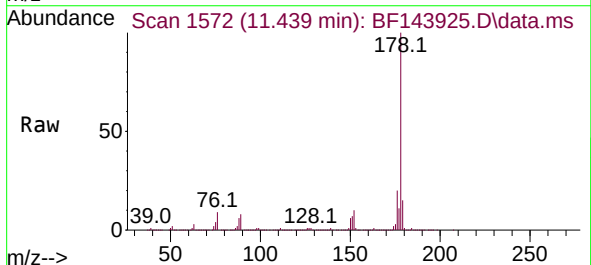
Manual Integrations
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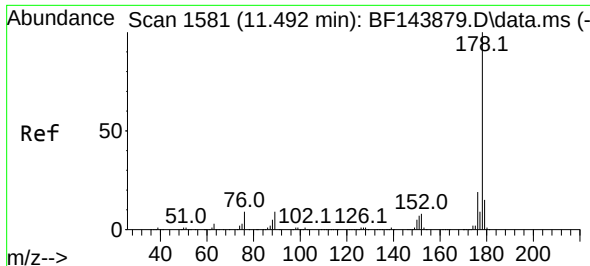
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025



#71
Phenanthrene
Concen: 39.850 ng
RT: 11.439 min Scan# 1572
Delta R.T. -0.006 min
Lab File: BF143925.D
Acq: 10 Oct 2025 15:23

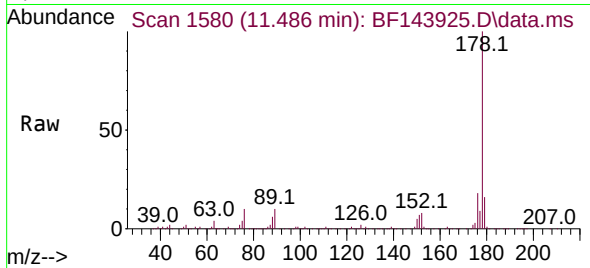
Tgt Ion:178 Resp: 639871
Ion Ratio Lower Upper
178 100
176 19.9 15.9 23.9
179 15.4 12.4 18.6





#72
 Anthracene
 Concen: 12.707 ng
 RT: 11.486 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF143925.D
 Acq: 10 Oct 2025 15:23

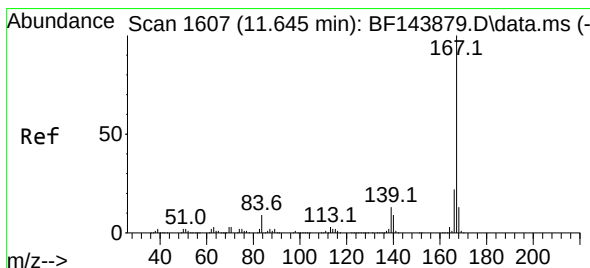
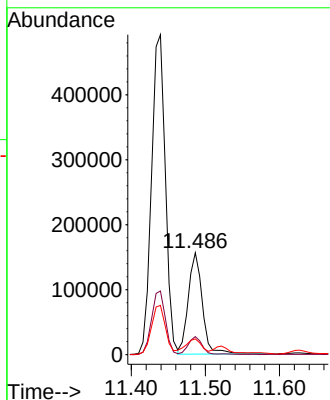
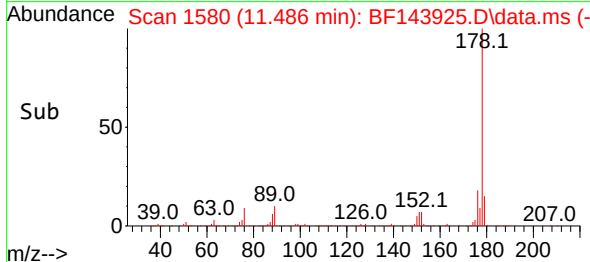
Instrument :
 BNA_F
 ClientSampleId :
 OR-02-100925



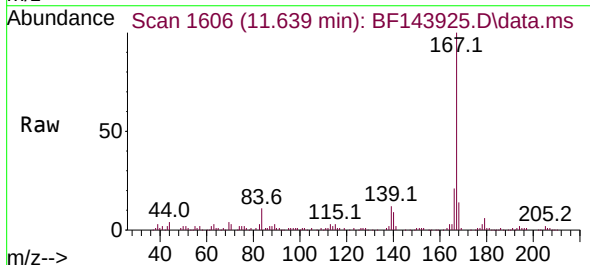
Tgt Ion:178 Resp: 206124
 Ion Ratio Lower Upper
 178 100
 176 17.6 14.9 22.3
 179 15.5 12.2 18.2

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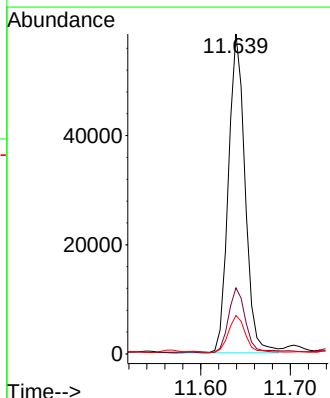
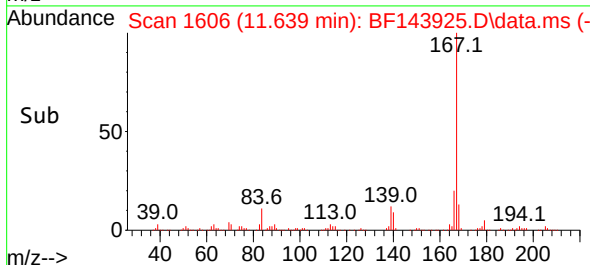
Reviewed By :Jagrut Upadhyay 10/13/2025
 Supervised By :mohammad ahmed 10/15/2025

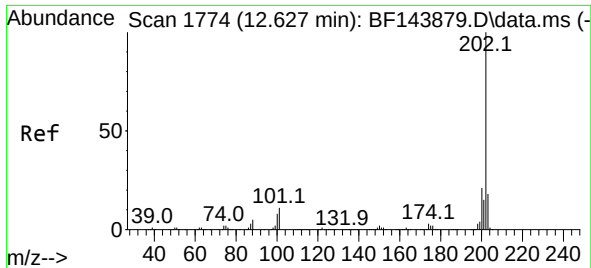


#73
 Carbazole
 Concen: 5.290 ng
 RT: 11.639 min Scan# 1606
 Delta R.T. -0.012 min
 Lab File: BF143925.D
 Acq: 10 Oct 2025 15:23



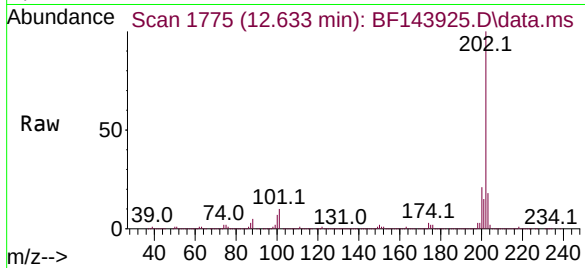
Tgt Ion:167 Resp: 76003
 Ion Ratio Lower Upper
 167 100
 166 20.6 17.2 25.8
 139 12.0 10.1 15.1





#75
Fluoranthene
Concen: 64.364 ng
RT: 12.633 min Scan# 1775
Delta R.T. 0.000 min
Lab File: BF143925.D
Acq: 10 Oct 2025 15:23

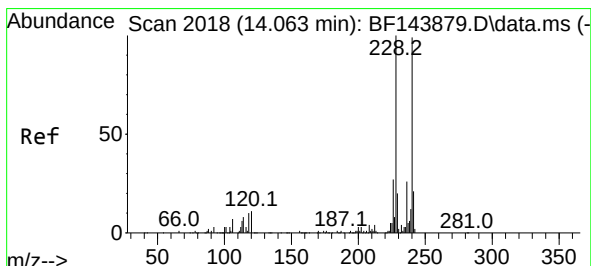
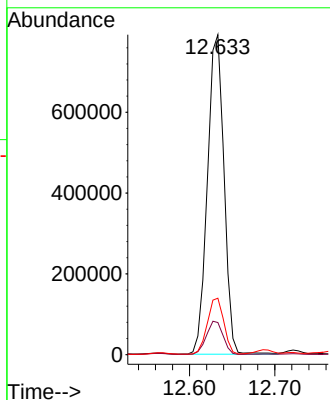
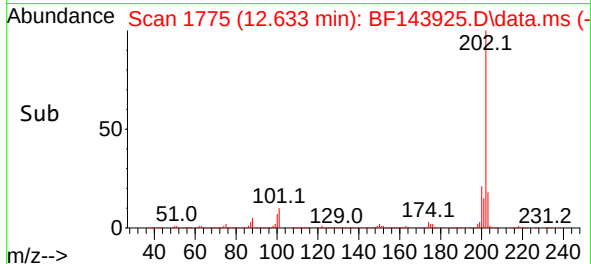
Instrument :
BNA_F
ClientSampleId :
OR-02-100925



Tgt Ion:202 Resp: 1067525
Ion Ratio Lower Upper
202 100
101 10.0 0.0 30.7
203 17.6 0.0 37.8

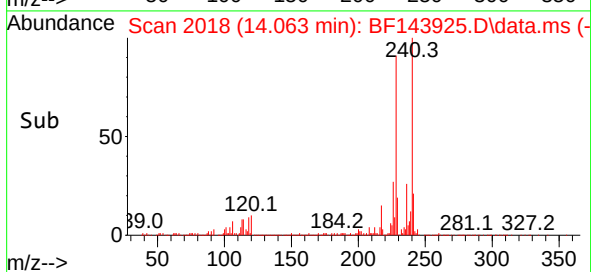
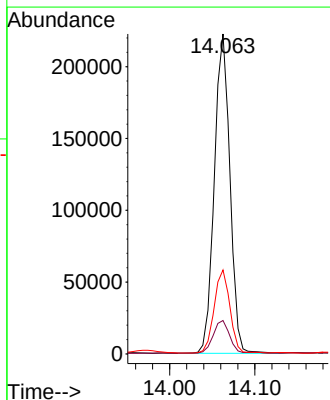
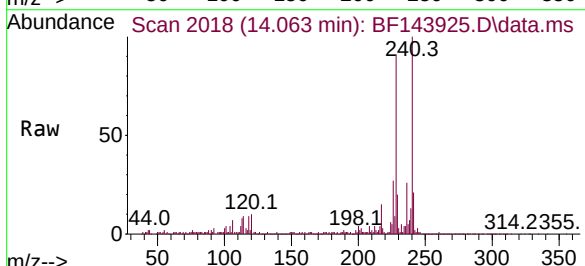
Manual Integrations
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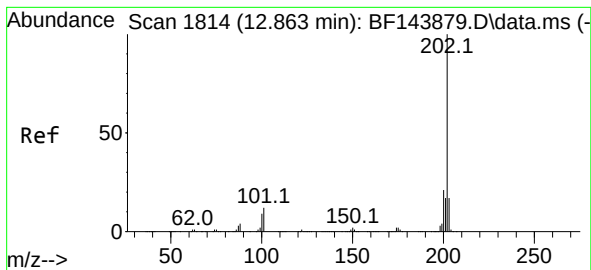
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.005 min
Lab File: BF143925.D
Acq: 10 Oct 2025 15:23

Tgt Ion:240 Resp: 282779
Ion Ratio Lower Upper
240 100
120 10.4 8.6 13.0
236 26.2 21.1 31.7





#78

Pyrene

Concen: 41.469 ng

RT: 12.863 min Scan# 1814

Delta R.T. 0.000 min

Lab File: BF143925.D

Acq: 10 Oct 2025 15:23

Instrument :

BNA_F

ClientSampleId :

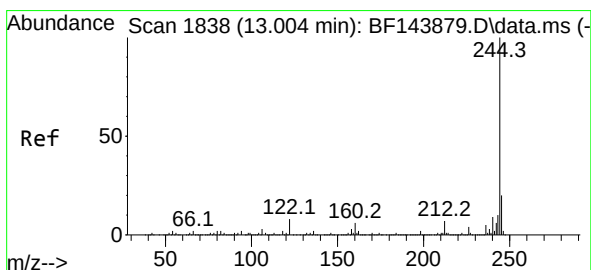
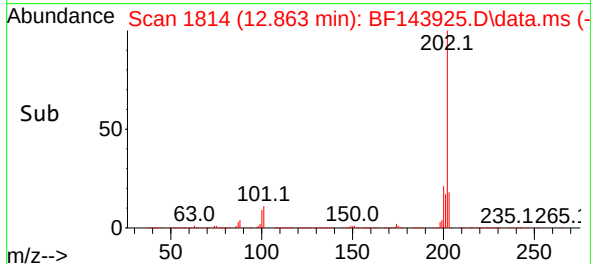
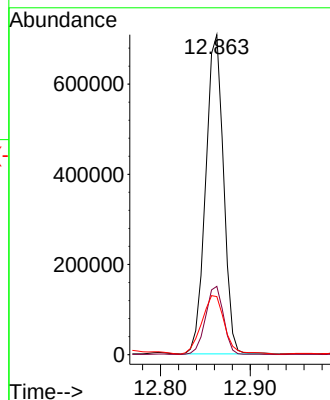
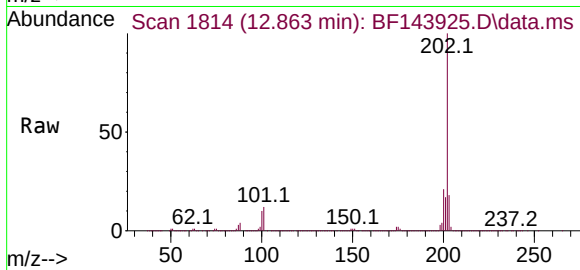
OR-02-100925

Tgt Ion:	202	Resp:	97763
Ion Ratio	Lower	Upper	
202	100		
200	21.3	17.0	25.6
203	18.1	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: 17.517 ng

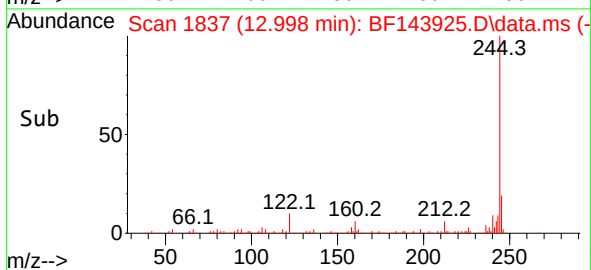
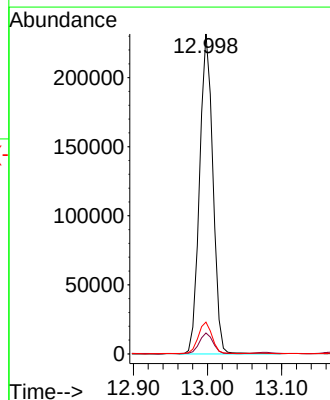
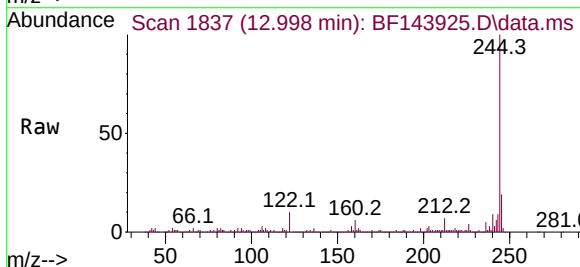
RT: 12.998 min Scan# 1837

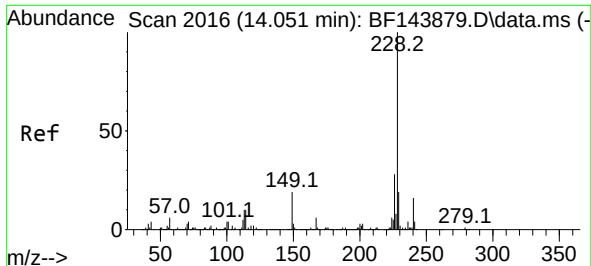
Delta R.T. -0.012 min

Lab File: BF143925.D

Acq: 10 Oct 2025 15:23

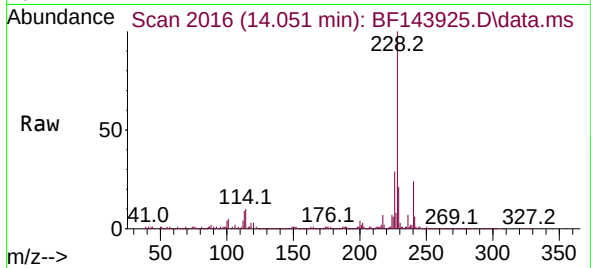
Tgt Ion:	244	Resp:	289836
Ion Ratio	Lower	Upper	
244	100		
212	6.5	5.4	8.0
122	9.9	6.4	9.6





#81
Benzo(a)anthracene
Concen: 31.636 ng
RT: 14.051 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF143925.D
Acq: 10 Oct 2025 15:23

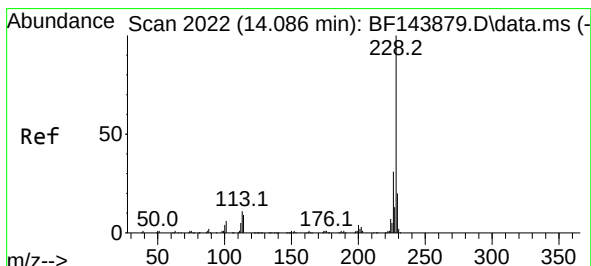
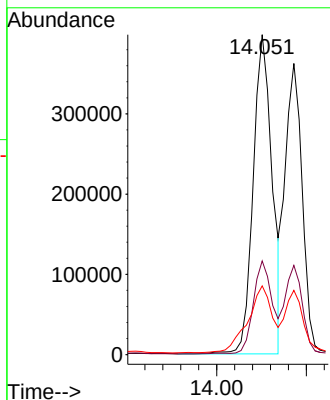
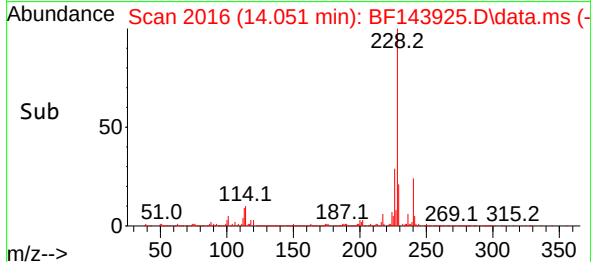
Instrument :
BNA_F
ClientSampleId :
OR-02-100925



Tgt Ion:228 Resp: 585438
Ion Ratio Lower Upper
228 100
226 29.3 22.2 33.2
229 21.5 15.6 23.4

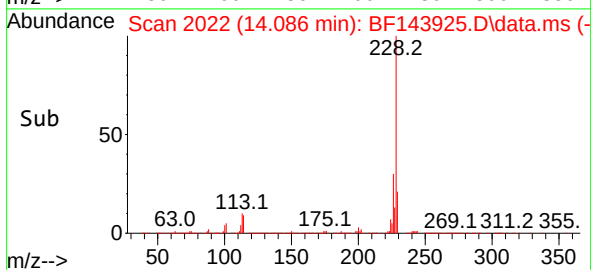
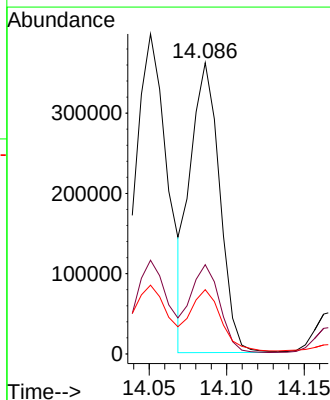
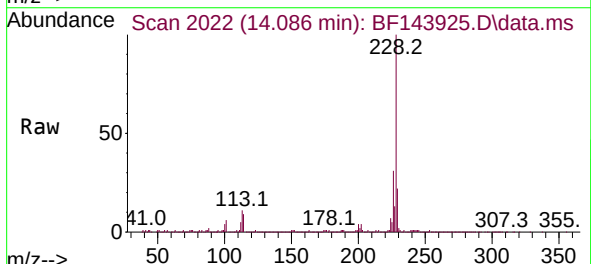
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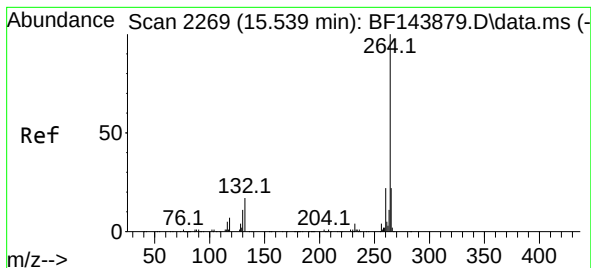
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025



#83
Chrysene
Concen: 27.789 ng
RT: 14.086 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF143925.D
Acq: 10 Oct 2025 15:23

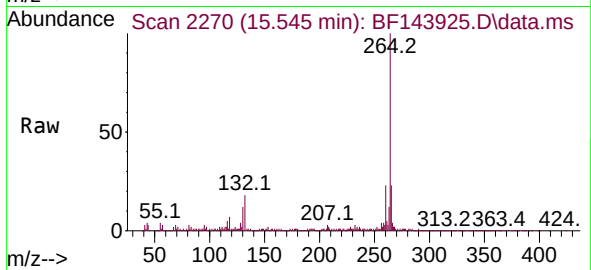
Tgt Ion:228 Resp: 475934
Ion Ratio Lower Upper
228 100
226 30.6 24.4 36.6
229 22.1 15.9 23.9





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2269
Delta R.T. 0.000 min
Lab File: BF143925.D
Acq: 10 Oct 2025 15:23

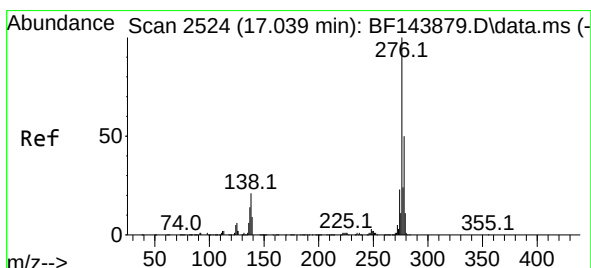
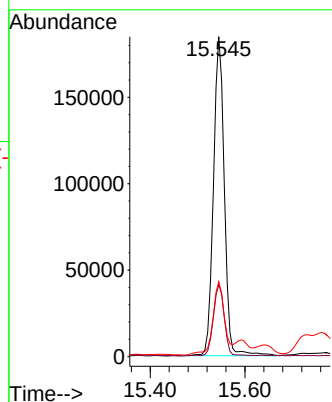
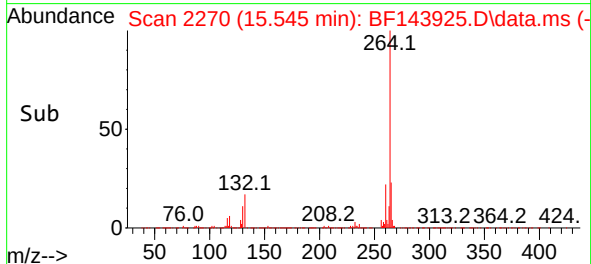
Instrument :
BNA_F
ClientSampleId :
OR-02-100925



Tgt Ion:264 Resp: 295476
Ion Ratio Lower Upper
264 100
260 22.5 17.8 26.8
265 23.4 17.5 26.3

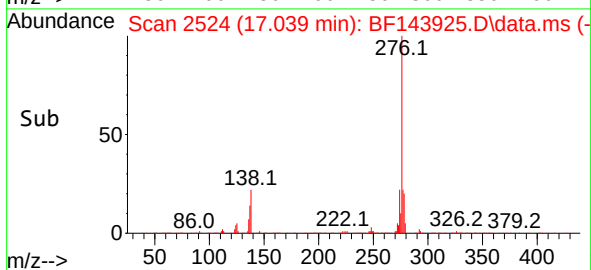
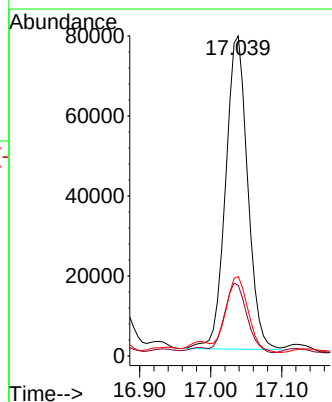
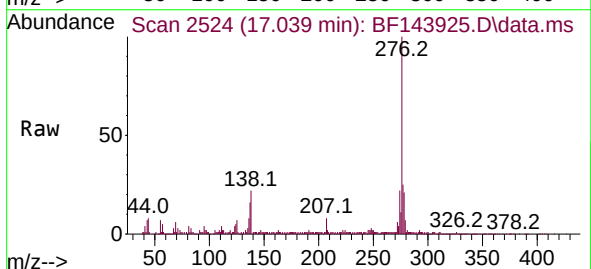
Manual Integrations
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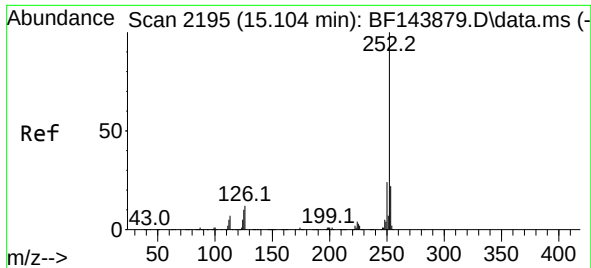
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025



#87
Indeno(1,2,3-cd)pyrene
Concen: 9.338 ng
RT: 17.039 min Scan# 2524
Delta R.T. -0.018 min
Lab File: BF143925.D
Acq: 10 Oct 2025 15:23

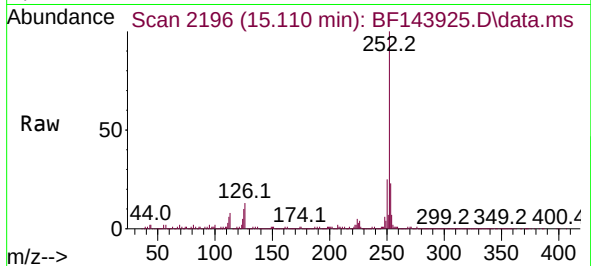
Tgt Ion:276 Resp: 169069
Ion Ratio Lower Upper
276 100
138 22.4 18.2 27.2
277 24.9 19.8 29.6





#88
Benzo(b)fluoranthene
Concen: 34.283 ng m
RT: 15.110 min Scan# 2195
Delta R.T. -0.006 min
Lab File: BF143925.D
Acq: 10 Oct 2025 15:23

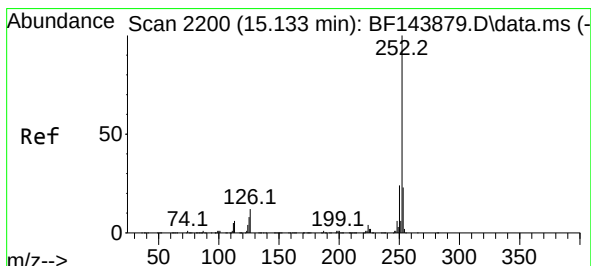
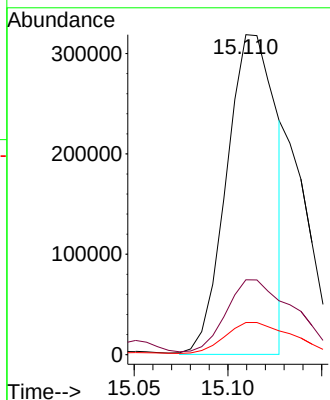
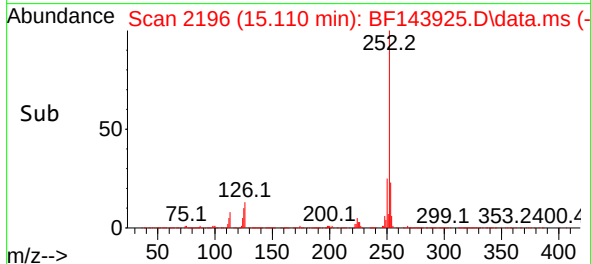
Instrument :
BNA_F
ClientSampleId :
OR-02-100925



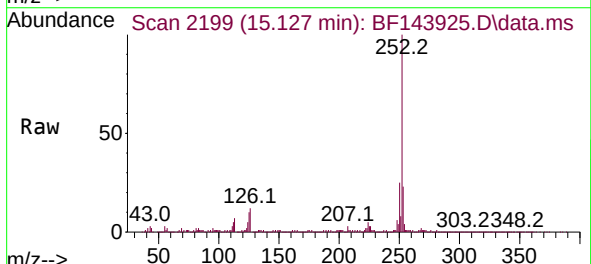
Tgt Ion:252 Resp: 58188
Ion Ratio Lower Upper
252 100
253 23.4 17.4 26.2
125 10.0 7.8 11.6

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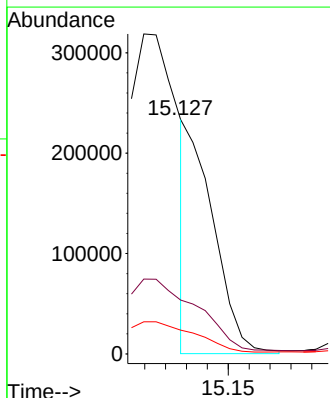
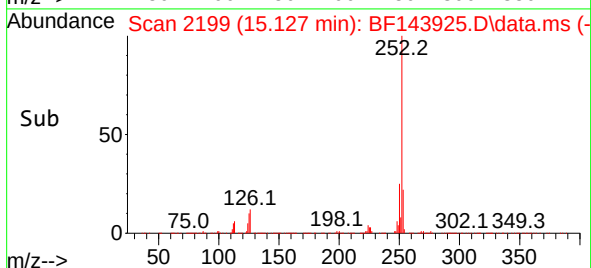
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025

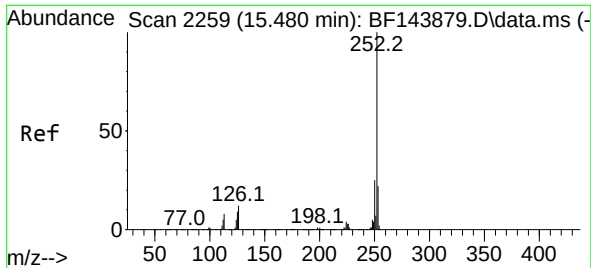


#89
Benzo(k)fluoranthene
Concen: 12.903 ng m
RT: 15.127 min Scan# 2199
Delta R.T. -0.018 min
Lab File: BF143925.D
Acq: 10 Oct 2025 15:23



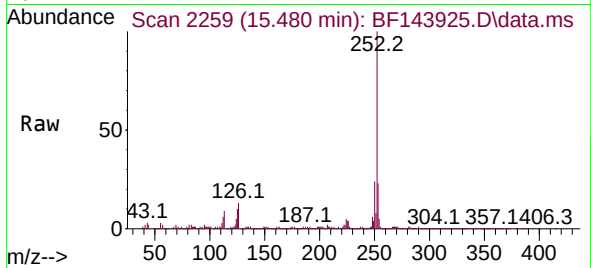
Tgt Ion:252 Resp: 202653
Ion Ratio Lower Upper
252 100
253 23.0 17.8 26.8
125 10.2 7.4 11.2





#90
Benzo(a)pyrene
Concen: 27.432 ng
RT: 15.480 min Scan# 2259
Delta R.T. -0.006 min
Lab File: BF143925.D
Acq: 10 Oct 2025 15:23

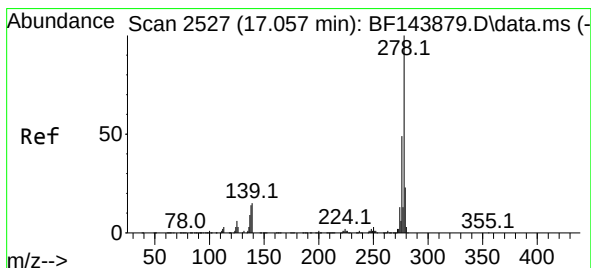
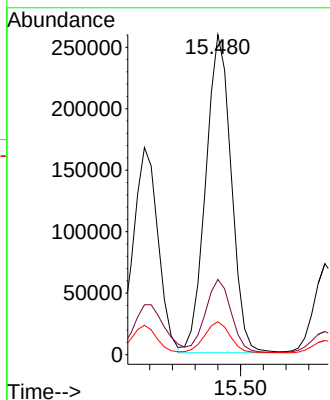
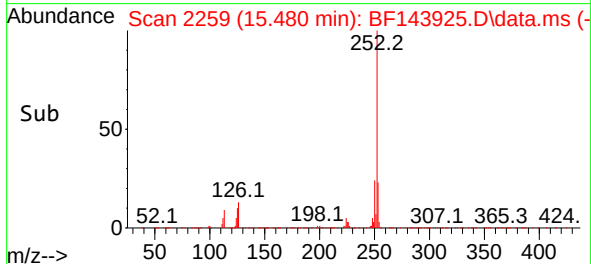
Instrument :
BNA_F
ClientSampleId :
OR-02-100925



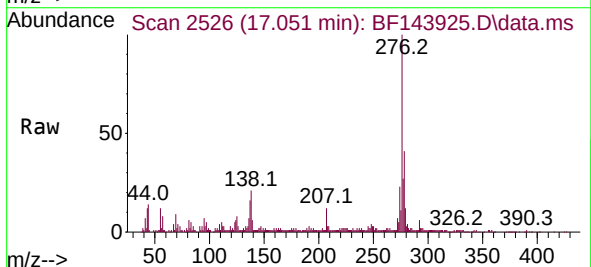
Tgt Ion:252 Resp: 403732
Ion Ratio Lower Upper
252 100
253 23.5 17.3 25.9
125 10.3 7.0 10.4

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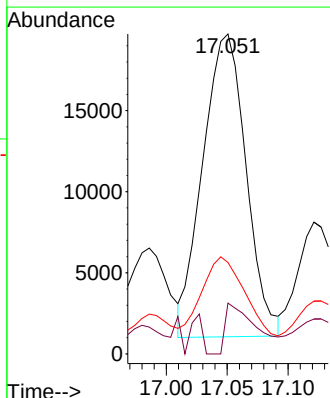
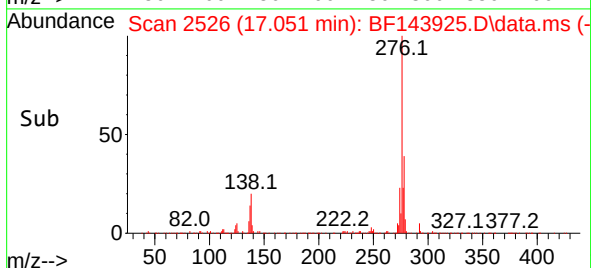
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025

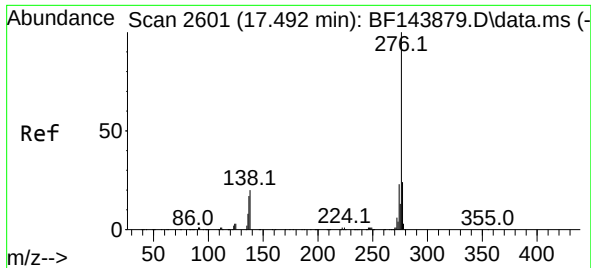


#91
Dibenzo(a,h)anthracene
Concen: 3.179 ng
RT: 17.051 min Scan# 2526
Delta R.T. -0.029 min
Lab File: BF143925.D
Acq: 10 Oct 2025 15:23



Tgt Ion:278 Resp: 46290
Ion Ratio Lower Upper
278 100
139 15.9 11.7 17.5
279 28.6 18.4 27.6#





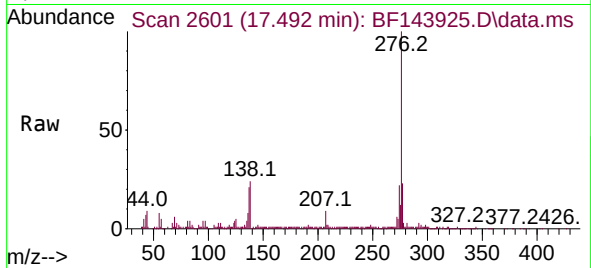
#92
 Benzo(g,h,i)perylene
 Concen: 10.735 ng
 RT: 17.492 min Scan# 20
 Delta R.T. -0.023 min
 Lab File: BF143925.D
 Acq: 10 Oct 2025 15:23

Instrument :

BNA_F

ClientSampleId :

OR-02-100925



Tgt Ion:276 Resp: 156320
 Ion Ratio Lower Upper
 276 100
 277 22.7 19.0 28.6
 138 23.8 16.1 24.1

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

