

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101025\
 Data File : BF143926.D
 Acq On : 10 Oct 2025 15:51
 Operator : RC/JU
 Sample : Q3321-01
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 P001-DS-01

Manual Integrations
 APPROVED

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

Quant Time: Oct 10 17:16:24 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	108001	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	403837	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	207929	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	321893	20.000	ng	0.00
76) Chrysene-d12	14.063	240	291502	20.000	ng	0.00
86) Perylene-d12	15.545	264	280555	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.499	112	507798	74.664	ng	0.00
7) Phenol-d6	6.498	99	581255	71.701	ng	-0.02
23) Nitrobenzene-d5	7.440	82	343410	51.664	ng	-0.02
42) 2,4,6-Tribromophenol	10.710	330	127809	61.713	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	575895	43.947	ng	-0.01
79) Terphenyl-d14	12.998	244	521233	30.560	ng	-0.01
Target Compounds						Qvalue
71) Phenanthrene	11.433	178	261640	16.766	ng	98
72) Anthracene	11.486	178	68115	4.321	ng	99
73) Carbazole	11.639	167	30822	2.207	ng	95
75) Fluoranthene	12.627	202	584300	36.248	ng	99
78) Pyrene	12.857	202	553727	22.785	ng	97
81) Benzo(a)anthracene	14.051	228	384901	20.177	ng	98
83) Chrysene	14.086	228	319540	18.099	ng	97
84) Bis(2-ethylhexyl)phtha...	14.039	149	118990	12.507	ng	98
87) Indeno(1,2,3-cd)pyrene	17.039	276	172242	10.019	ng	97
88) Benzo(b)fluoranthene	15.116	252	474866m	29.466	ng	
89) Benzo(k)fluoranthene	15.127	252	172469m	11.565	ng	
90) Benzo(a)pyrene	15.480	252	296801	21.239	ng	# 96
91) Dibenzo(a,h)anthracene	17.045	278	39701	2.871	ng	# 84
92) Benzo(g,h,i)perylene	17.492	276	159145	11.511	ng	# 95

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

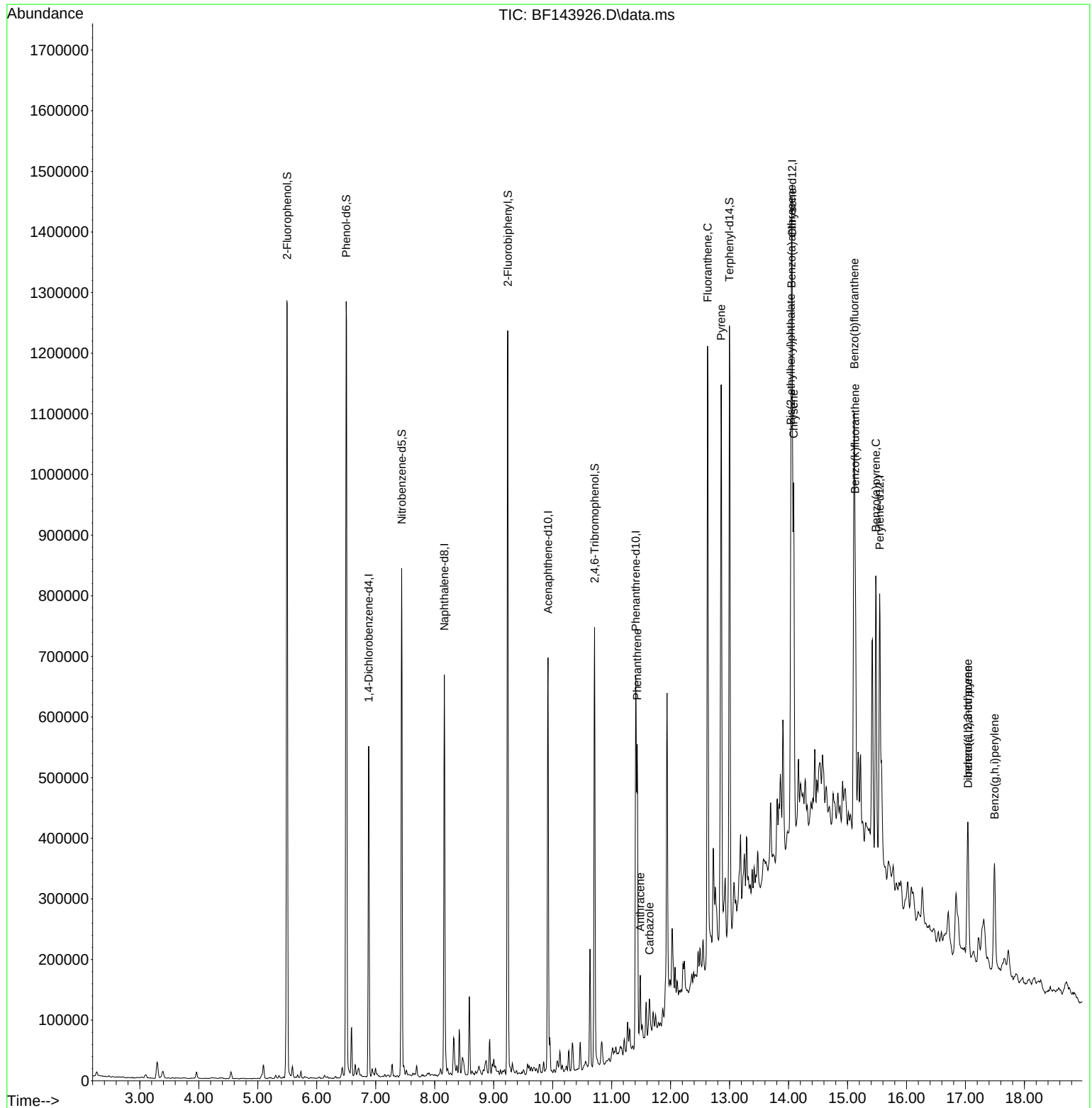
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101025\
Data File : BF143926.D
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Sample : Q3321-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

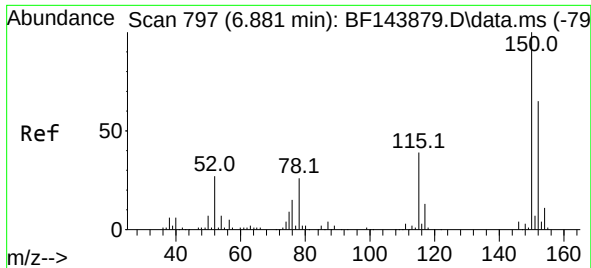
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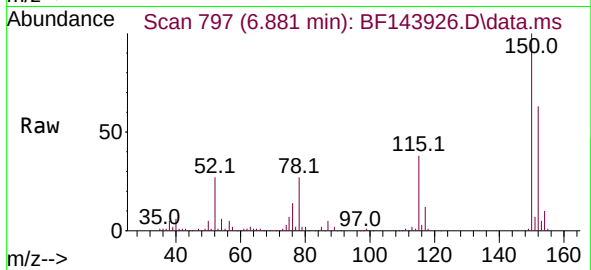
Quant Time: Oct 10 17:16:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 06 15:29:47 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 79
Delta R.T. -0.005 min
Lab File: BF143926.D
Acq: 10 Oct 2025 15:51

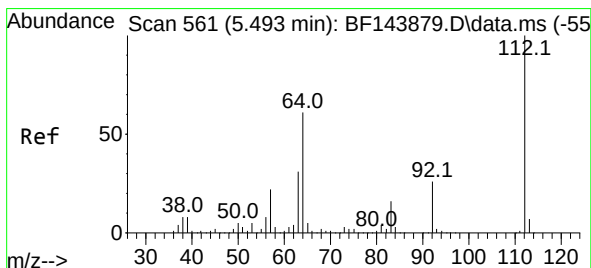
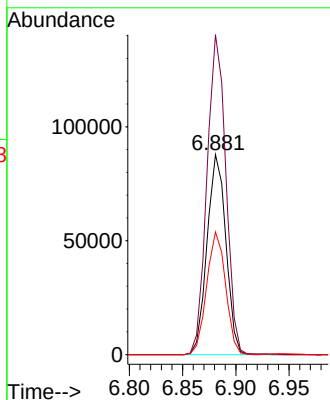
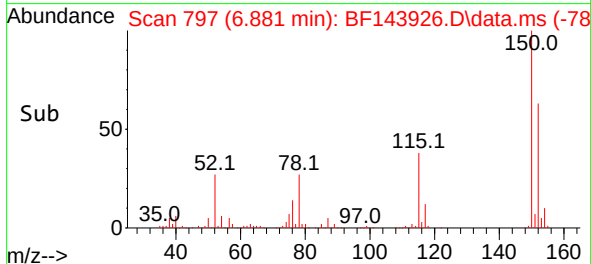
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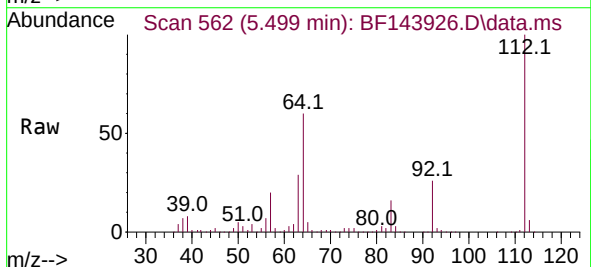
Tgt Ion:152 Resp: 108000
Ion Ratio Lower Upper
152 100
150 160.0 124.4 186.6
115 61.3 48.1 72.1

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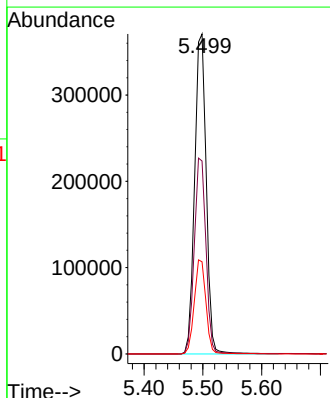
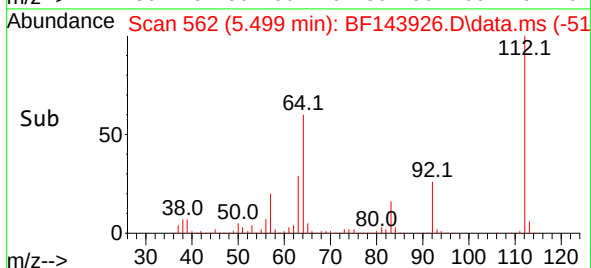
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025

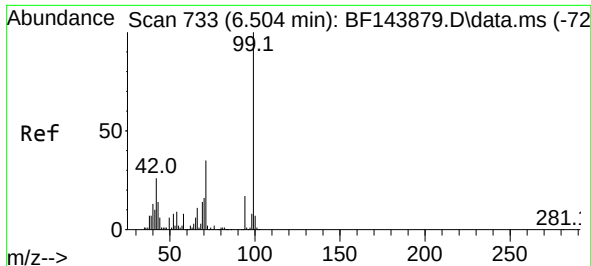


#5
2-Fluorophenol
Concen: 74.664 ng
RT: 5.499 min Scan# 562
Delta R.T. 0.000 min
Lab File: BF143926.D
Acq: 10 Oct 2025 15:51



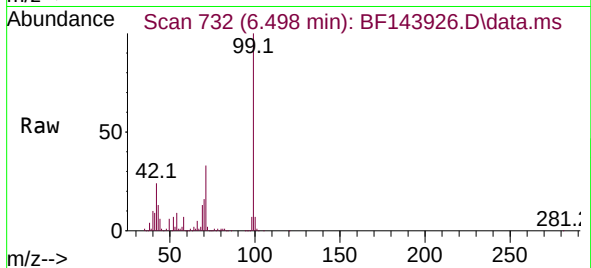
Tgt Ion:112 Resp: 507798
Ion Ratio Lower Upper
112 100
64 60.3 49.1 73.7
63 28.8 24.5 36.7





#7
Phenol-d6
Concen: 71.701 ng
RT: 6.498 min Scan# 731
Delta R.T. -0.017 min
Lab File: BF143926.D
Acq: 10 Oct 2025 15:51

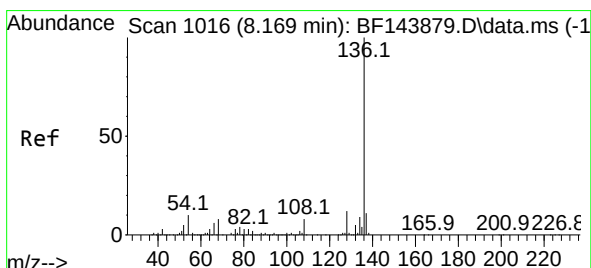
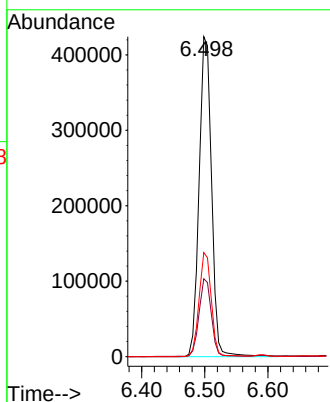
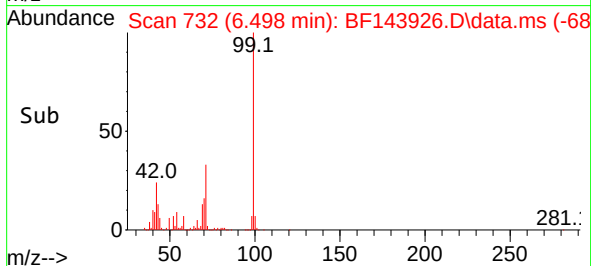
Instrument :
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ClientSampleId :
P001-DS-01



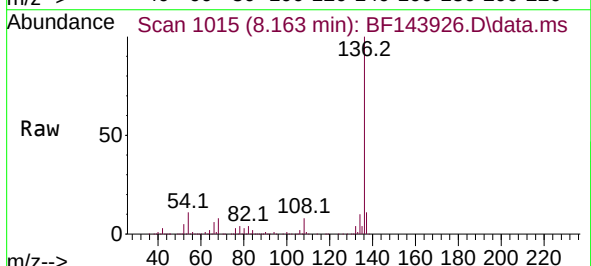
Tgt Ion: 99 Resp: 581255
Ion Ratio Lower Upper
99 100
42 24.3 21.0 31.4
71 32.5 27.8 41.8

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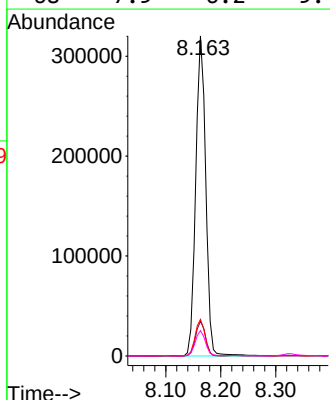
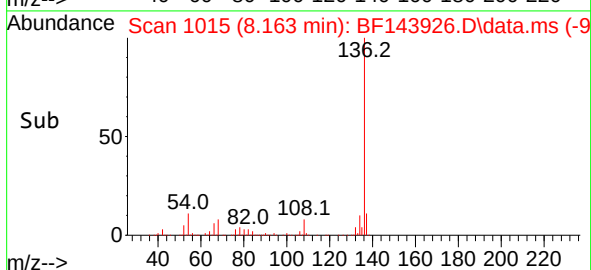
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025

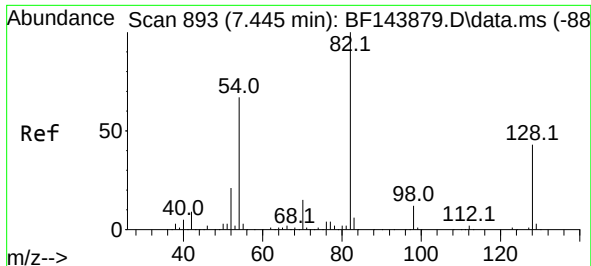


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF143926.D
Acq: 10 Oct 2025 15:51



Tgt Ion:136 Resp: 403837
Ion Ratio Lower Upper
136 100
137 10.8 8.5 12.7
54 11.4 8.2 12.4
68 7.9 6.2 9.4





#23

Nitrobenzene-d5

Concen: 51.664 ng

RT: 7.440 min Scan# 893

Delta R.T. -0.017 min

Lab File: BF143926.D

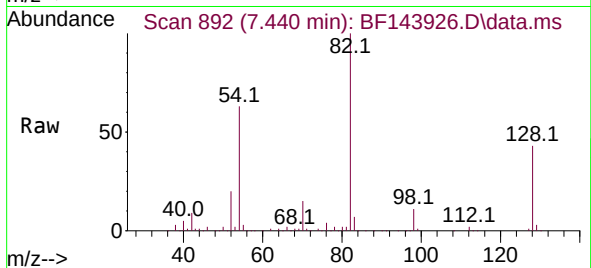
Acq: 10 Oct 2025 15:51

Instrument :

BNA_F

ClientSampleId :

P001-DS-01



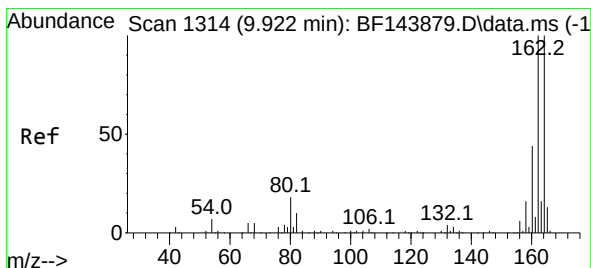
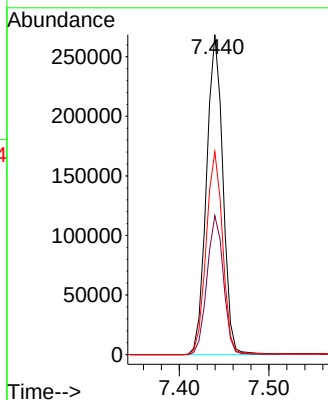
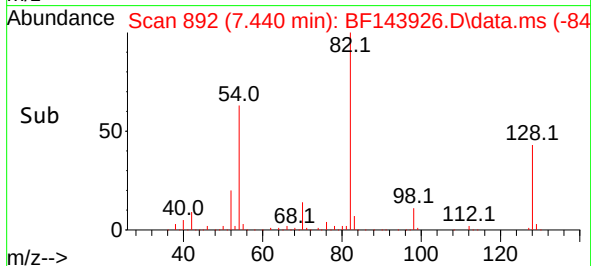
Tgt Ion: 82 Resp: 343410

Ion	Ratio	Lower	Upper
82	100		
128	43.4	34.0	51.0
54	63.4	53.2	79.8

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.922 min Scan# 1314

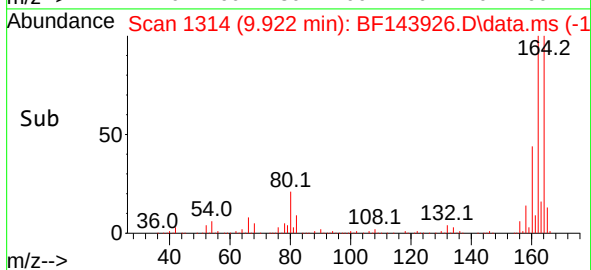
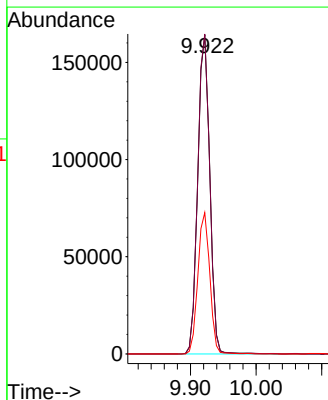
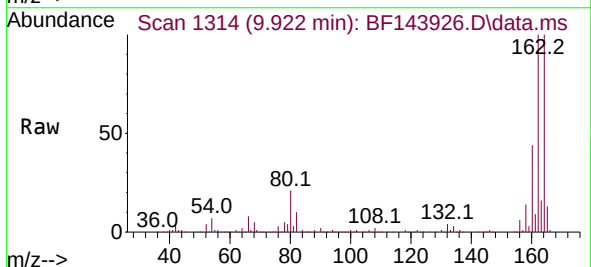
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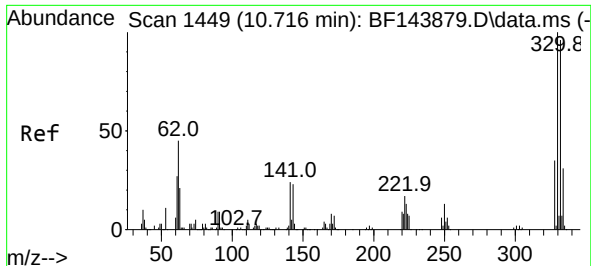
Lab File: BF143926.D

Acq: 10 Oct 2025 15:51

Tgt Ion:164 Resp: 207929

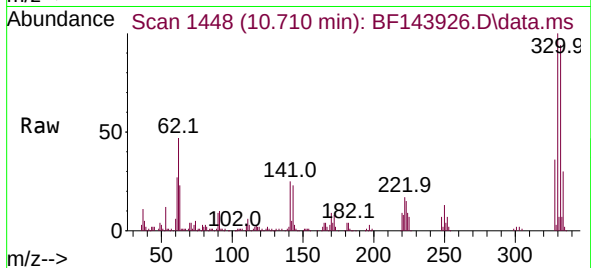
Ion	Ratio	Lower	Upper
164	100		
162	100.3	80.2	120.2
160	44.3	35.4	53.0





#42
2,4,6-Tribromophenol
Concen: 61.713 ng
RT: 10.710 min Scan# 1449
Delta R.T. -0.012 min
Lab File: BF143926.D
Acq: 10 Oct 2025 15:51

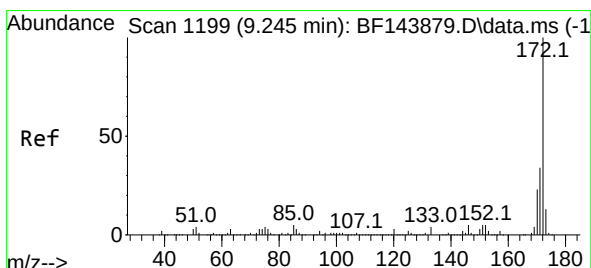
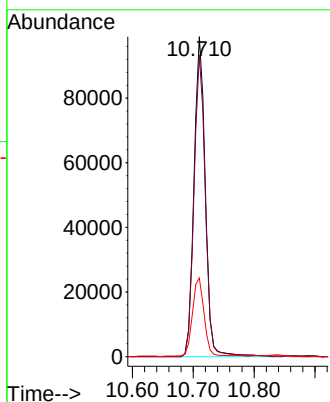
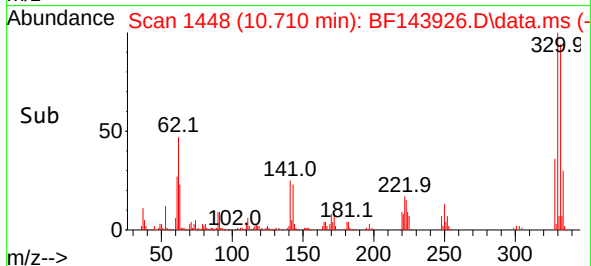
Instrument :
BNA_F
ClientSampleId :
P001-DS-01



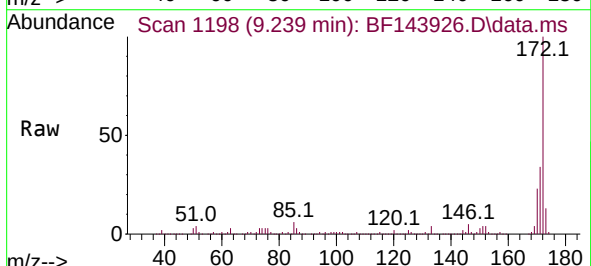
Tgt Ion: 330 Resp: 127809
Ion Ratio Lower Upper
330 100
332 94.5 76.9 115.3
141 25.7 20.2 30.4

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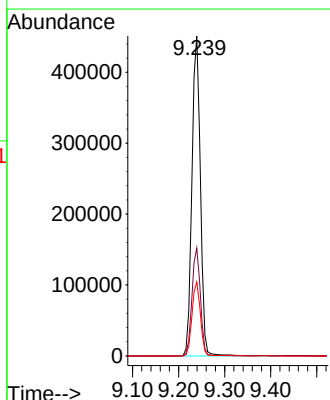
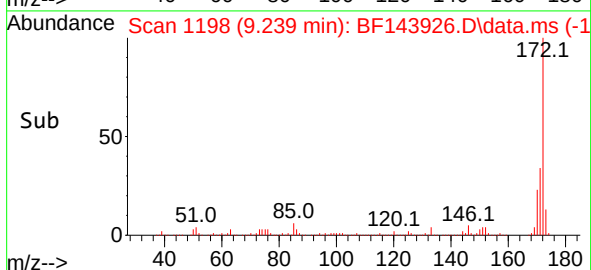
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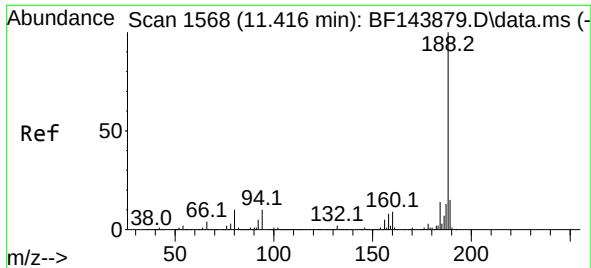


#45
2-Fluorobiphenyl
Concen: 43.947 ng
RT: 9.239 min Scan# 1198
Delta R.T. -0.012 min
Lab File: BF143926.D
Acq: 10 Oct 2025 15:51



Tgt Ion: 172 Resp: 575895
Ion Ratio Lower Upper
172 100
171 33.7 27.4 41.0
170 23.1 18.6 28.0





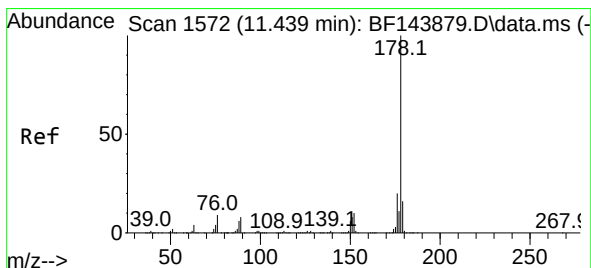
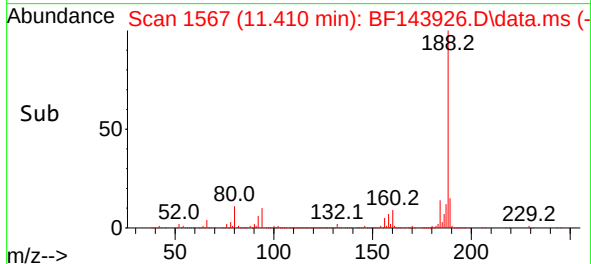
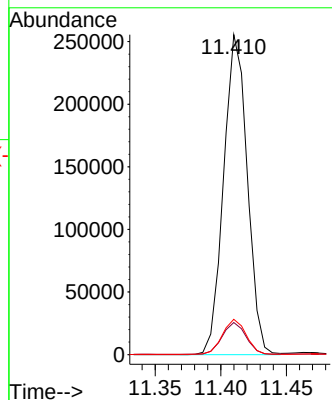
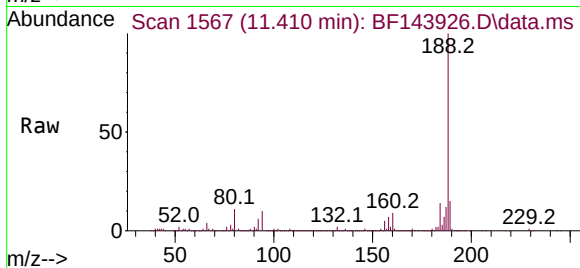
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143926.D
Acq: 10 Oct 2025 15:51

Instrument :
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ClientSampleId :
P001-DS-01

Tgt Ion:188 Resp: 321893
Ion Ratio Lower Upper
188 100
94 10.0 7.8 11.6
80 11.0 7.9 11.9

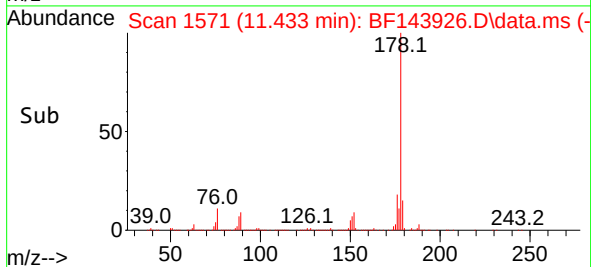
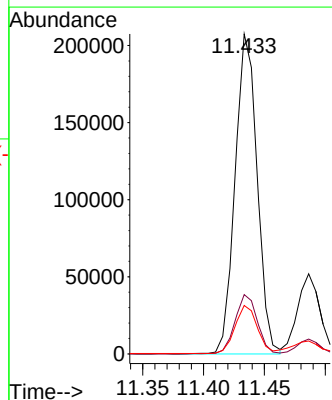
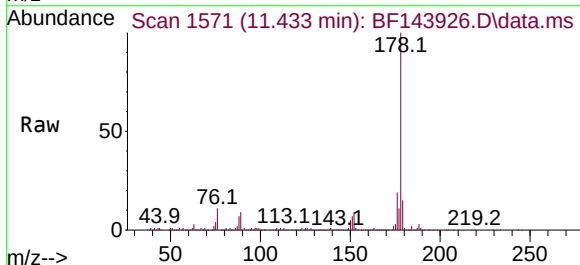
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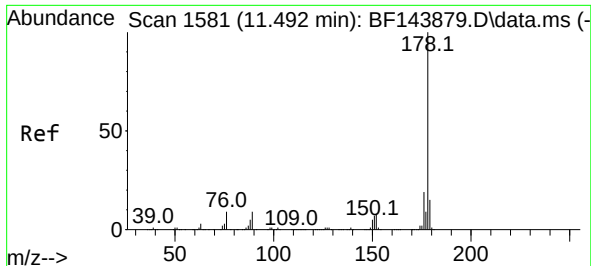
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025



#71
Phenanthrene
Concen: 16.766 ng
RT: 11.433 min Scan# 1571
Delta R.T. -0.012 min
Lab File: BF143926.D
Acq: 10 Oct 2025 15:51

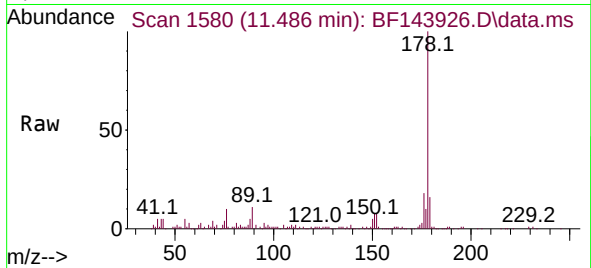
Tgt Ion:178 Resp: 261640
Ion Ratio Lower Upper
178 100
176 18.5 15.9 23.9
179 15.1 12.4 18.6





#72
 Anthracene
 Concen: 4.321 ng
 RT: 11.486 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF143926.D
 Acq: 10 Oct 2025 15:51

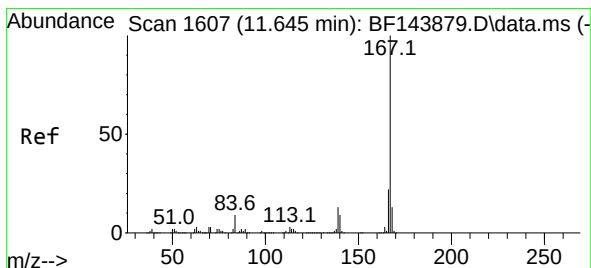
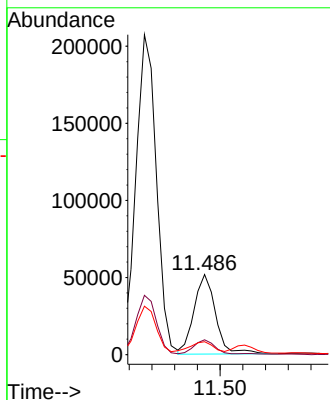
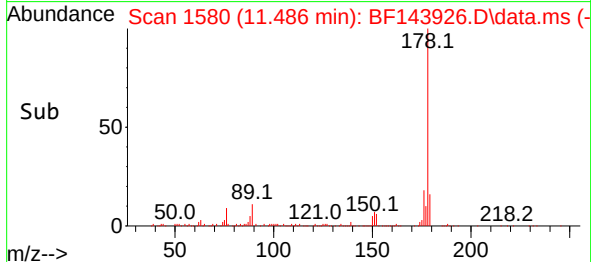
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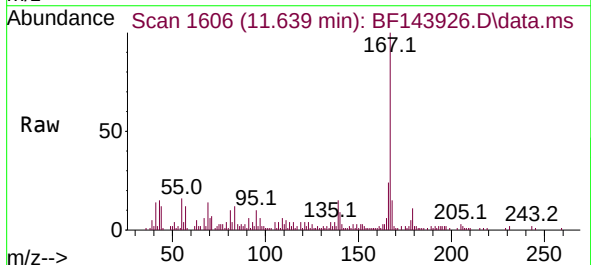
Tgt Ion:178 Resp: 68115
 Ion Ratio Lower Upper
 178 100
 176 18.5 14.9 22.3
 179 16.1 12.2 18.2

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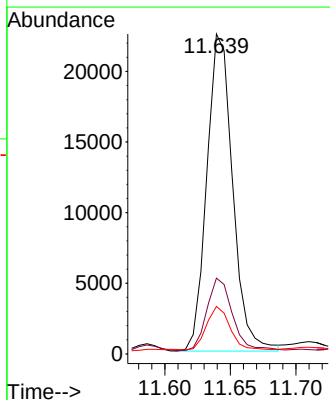
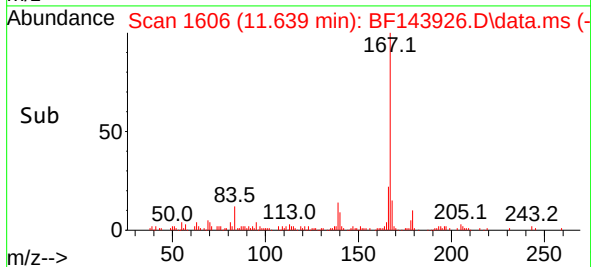
Reviewed By :Jagrut Upadhyay 10/13/2025
 Supervised By :mohammad ahmed 10/15/2025

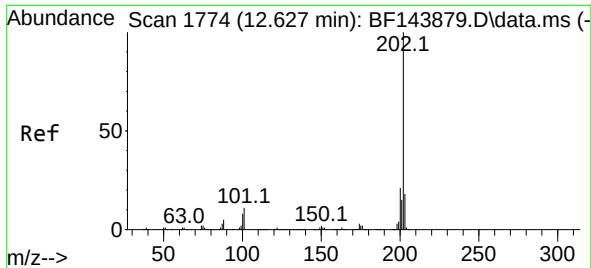


#73
 Carbazole
 Concen: 2.207 ng
 RT: 11.639 min Scan# 1606
 Delta R.T. -0.012 min
 Lab File: BF143926.D
 Acq: 10 Oct 2025 15:51



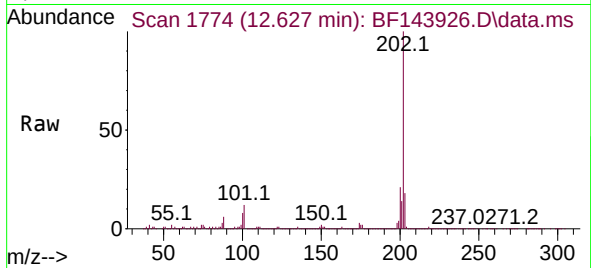
Tgt Ion:167 Resp: 30822
 Ion Ratio Lower Upper
 167 100
 166 23.7 17.2 25.8
 139 14.8 10.1 15.1





#75
Fluoranthene
Concen: 36.248 ng
RT: 12.627 min Scan# 1774
Delta R.T. -0.006 min
Lab File: BF143926.D
Acq: 10 Oct 2025 15:51

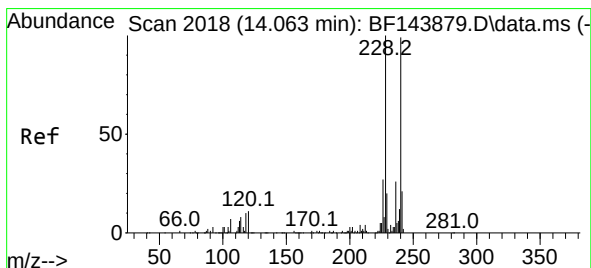
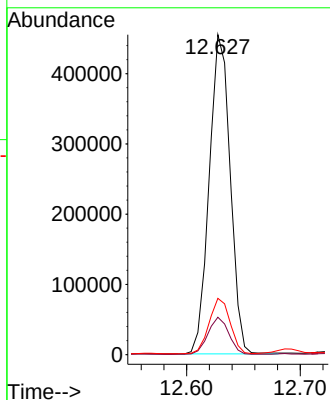
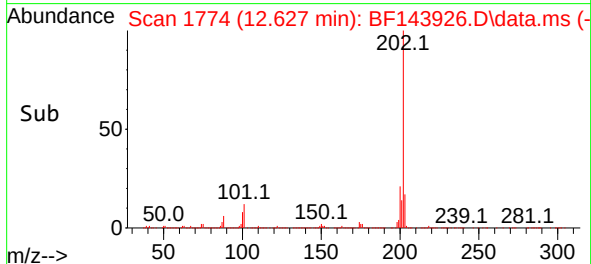
Instrument :
BNA_F
ClientSampleId :
P001-DS-01



Tgt Ion:202 Resp: 584300
Ion Ratio Lower Upper
202 100
101 11.7 0.0 30.7
203 17.6 0.0 37.8

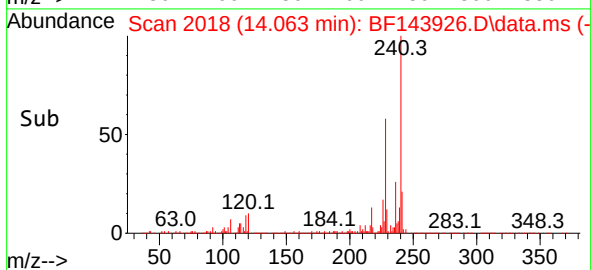
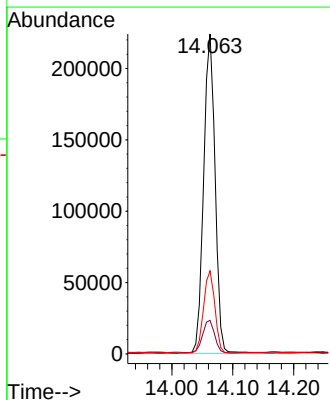
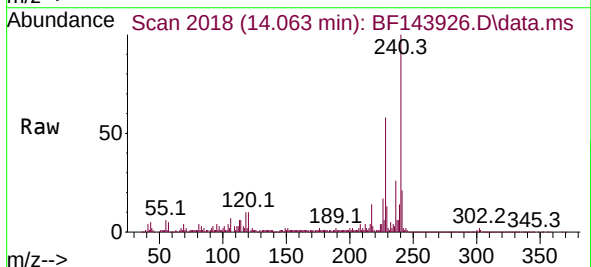
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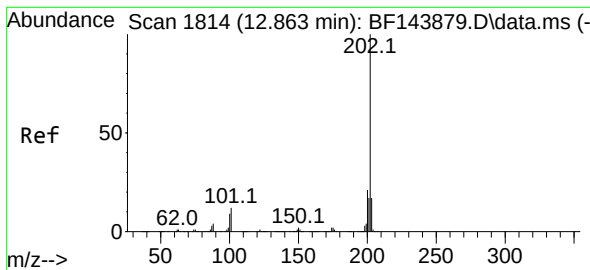
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 1818
Delta R.T. -0.005 min
Lab File: BF143926.D
Acq: 10 Oct 2025 15:51

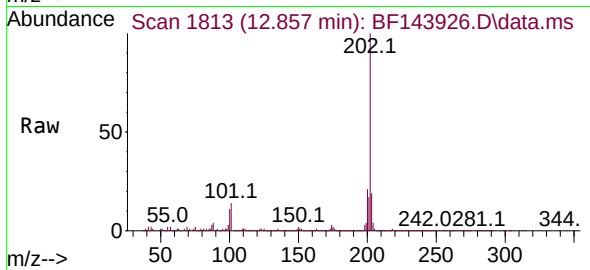
Tgt Ion:240 Resp: 291502
Ion Ratio Lower Upper
240 100
120 10.5 8.6 13.0
236 25.9 21.1 31.7





#78
Pyrene
Concen: 22.785 ng
RT: 12.857 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BF143926.D
Acq: 10 Oct 2025 15:51

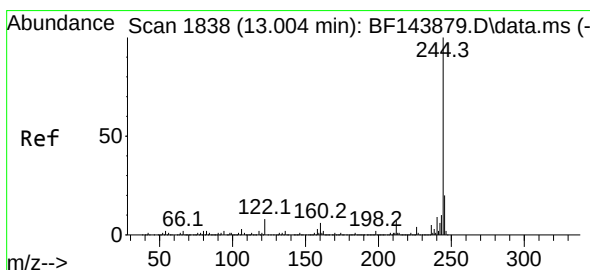
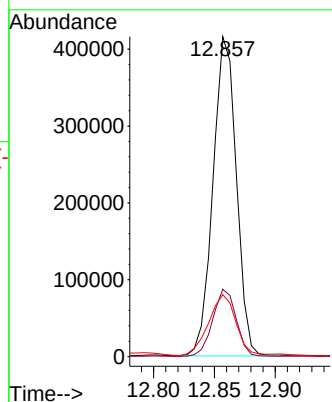
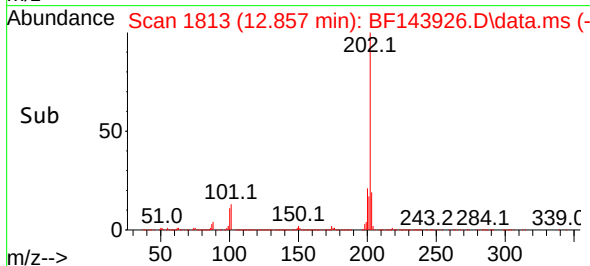
Instrument :
BNA_F
ClientSampleId :
P001-DS-01



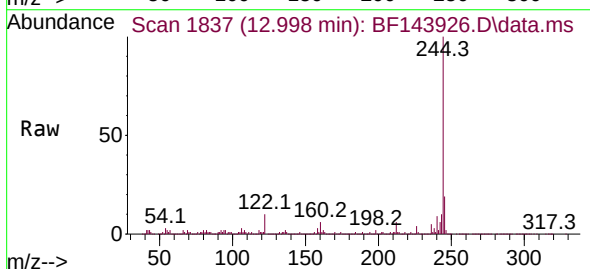
Tgt Ion:202 Resp: 55372
Ion Ratio Lower Upper
202 100
200 21.0 17.0 25.6
203 19.4 13.8 20.6

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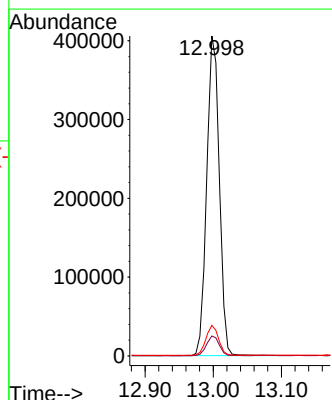
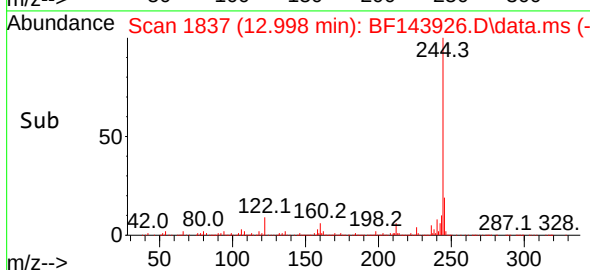
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025

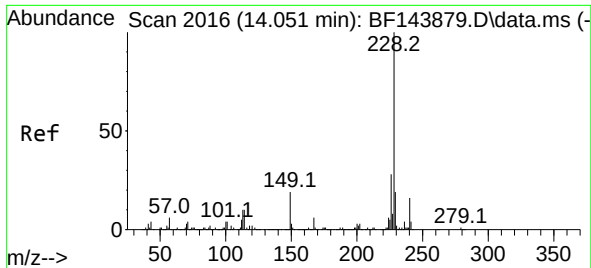


#79
Terphenyl-d14
Concen: 30.560 ng
RT: 12.998 min Scan# 1837
Delta R.T. -0.012 min
Lab File: BF143926.D
Acq: 10 Oct 2025 15:51



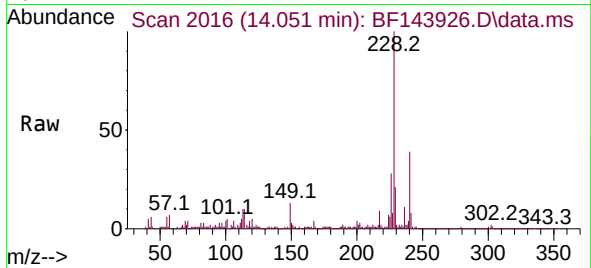
Tgt Ion:244 Resp: 521233
Ion Ratio Lower Upper
244 100
212 6.2 5.4 8.0
122 9.5 6.4 9.6





#81
Benzo(a)anthracene
Concen: 20.177 ng
RT: 14.051 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF143926.D
Acq: 10 Oct 2025 15:51

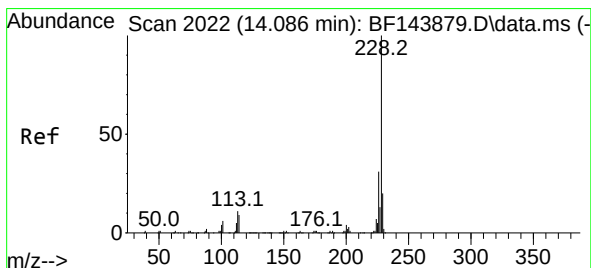
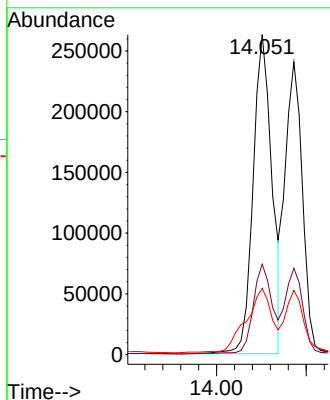
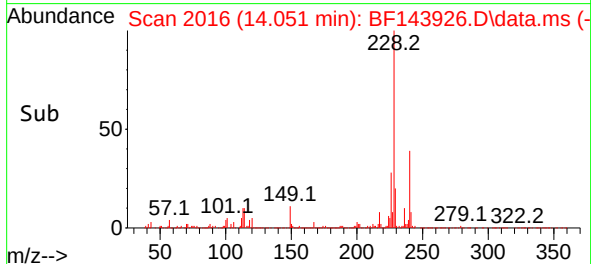
Instrument :
BNA_F
ClientSampleId :
P001-DS-01



Tgt Ion:228 Resp: 38490
Ion Ratio Lower Upper
228 100
226 28.2 22.2 33.2
229 20.7 15.6 23.4

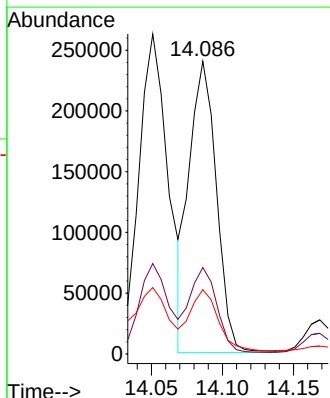
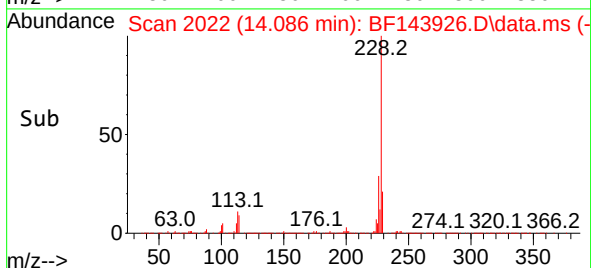
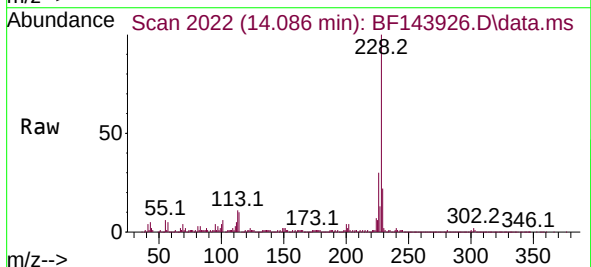
Manual Integrations
APPROVED

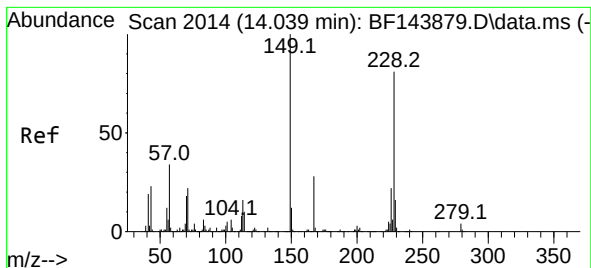
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025



#83
Chrysene
Concen: 18.099 ng
RT: 14.086 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF143926.D
Acq: 10 Oct 2025 15:51

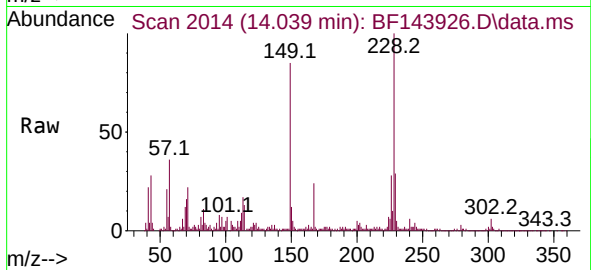
Tgt Ion:228 Resp: 319540
Ion Ratio Lower Upper
228 100
226 29.5 24.4 36.6
229 21.9 15.9 23.9





#84
Bis(2-ethylhexyl)phthalate
Concen: 12.507 ng
RT: 14.039 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF143926.D
Acq: 10 Oct 2025 15:51

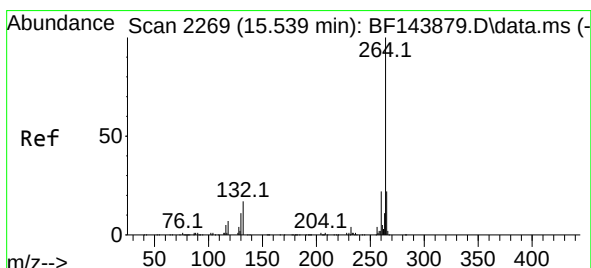
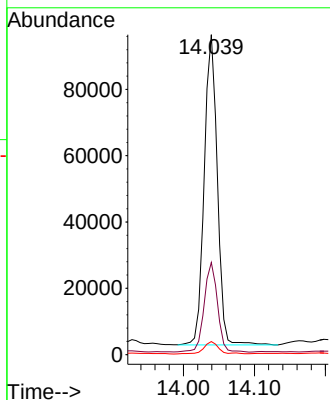
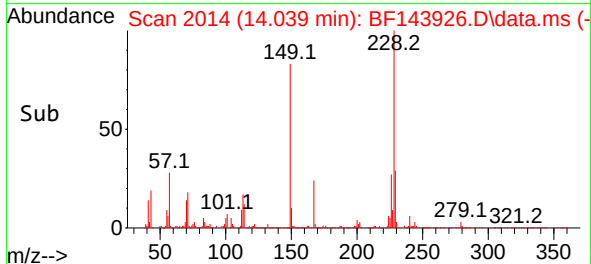
Instrument :
BNA_F
ClientSampleId :
P001-DS-01



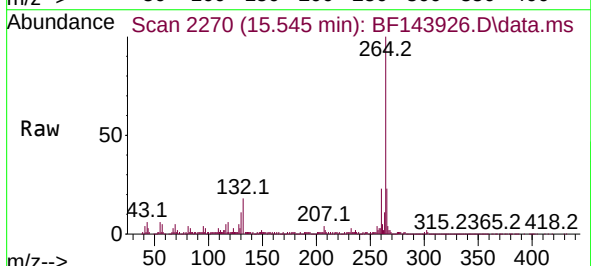
Tgt Ion:149 Resp: 118990
Ion Ratio Lower Upper
149 100
167 28.8 22.2 33.4
279 4.1 3.1 4.7

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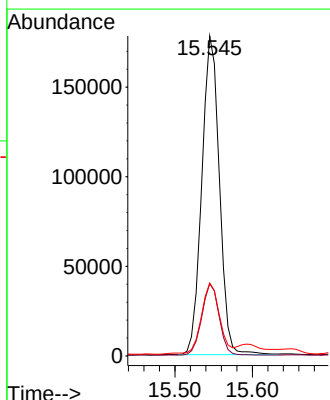
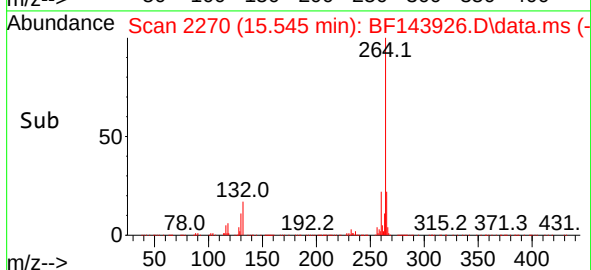
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025

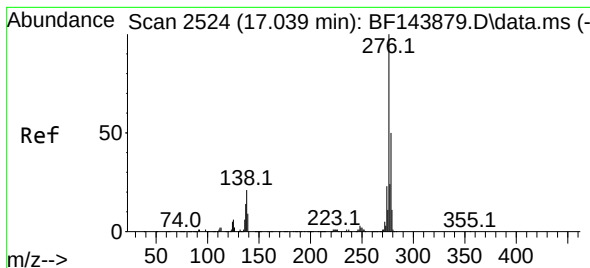


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2270
Delta R.T. 0.000 min
Lab File: BF143926.D
Acq: 10 Oct 2025 15:51



Tgt Ion:264 Resp: 280555
Ion Ratio Lower Upper
264 100
260 22.6 17.8 26.8
265 22.8 17.5 26.3





#87

Indeno(1,2,3-cd)pyrene

Concen: 10.019 ng

RT: 17.039 min Scan# 2197

Delta R.T. -0.017 min

Lab File: BF143926.D

Acq: 10 Oct 2025 15:51

Instrument :

BNA_F

ClientSampleId :

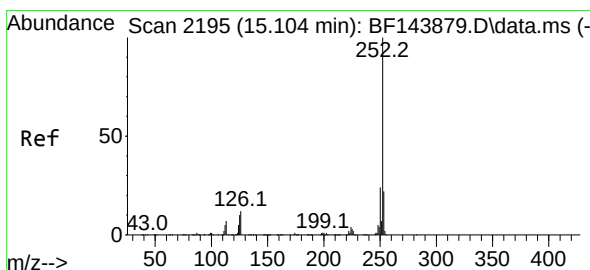
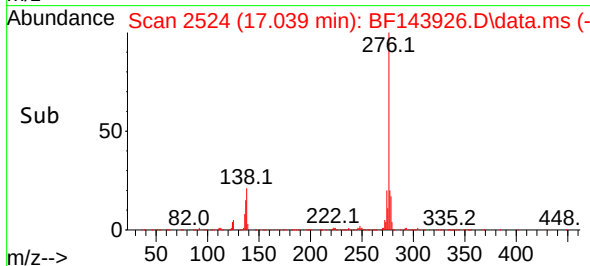
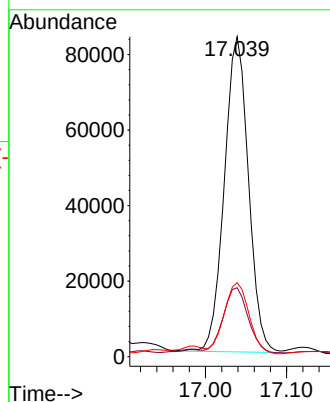
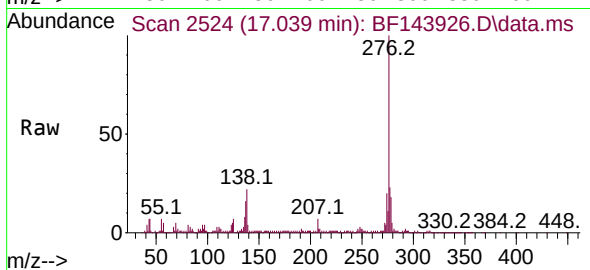
P001-DS-01

Tgt Ion:	276	Resp:	17224
Ion Ratio	Lower	Upper	
276	100		
138	21.4	18.2	27.2
277	23.5	19.8	29.6

Manual Integrations

APPROVED

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



#88

Benzo(b)fluoranthene

Concen: 29.466 ng m

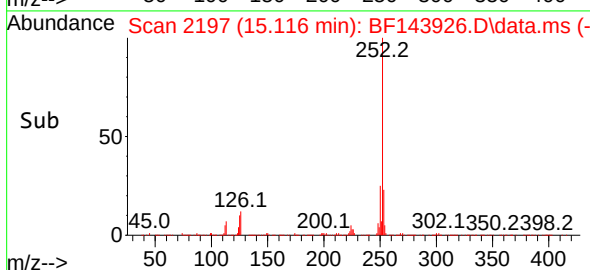
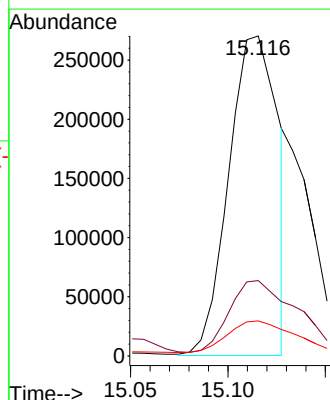
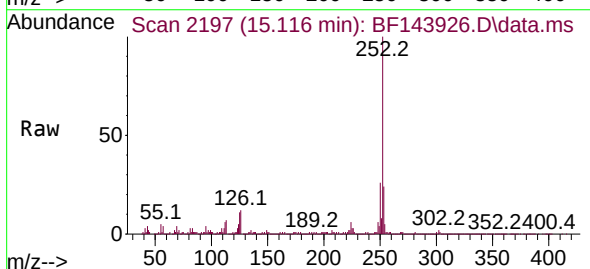
RT: 15.116 min Scan# 2197

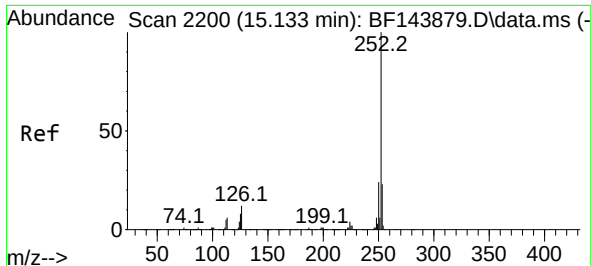
Delta R.T. 0.000 min

Lab File: BF143926.D

Acq: 10 Oct 2025 15:51

Tgt Ion:	252	Resp:	474866
Ion Ratio	Lower	Upper	
252	100		
253	23.5	17.4	26.2
125	11.0	7.8	11.6





#89

Benzo(k)fluoranthene

Concen: 11.565 ng m

RT: 15.127 min Scan# 2199

Delta R.T. -0.017 min

Lab File: BF143926.D

Acq: 10 Oct 2025 15:51

Instrument :

BNA_F

ClientSampleId :

P001-DS-01

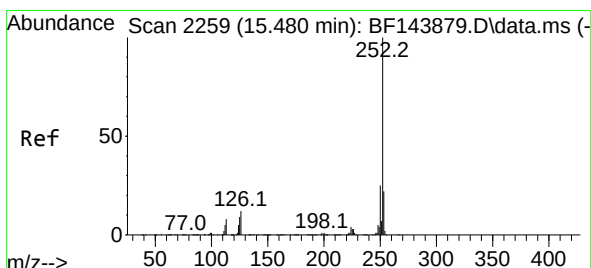
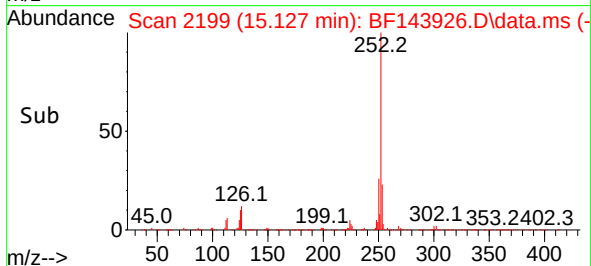
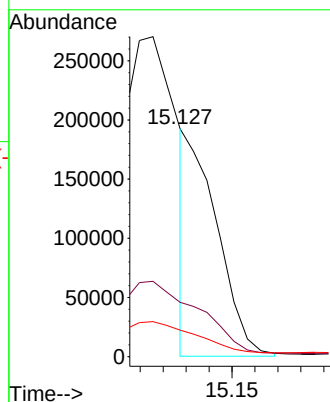
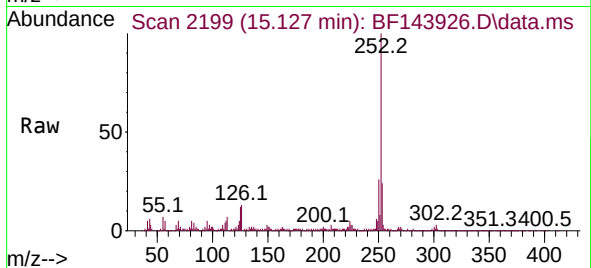
Tgt Ion:252 Resp: 172469

Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.8	26.8
125	11.6	7.4	11.2

Manual Integrations

APPROVED

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



#90

Benzo(a)pyrene

Concen: 21.239 ng

RT: 15.480 min Scan# 2259

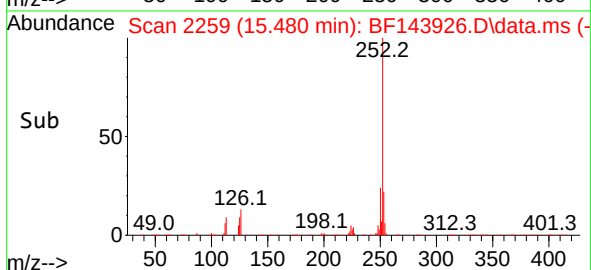
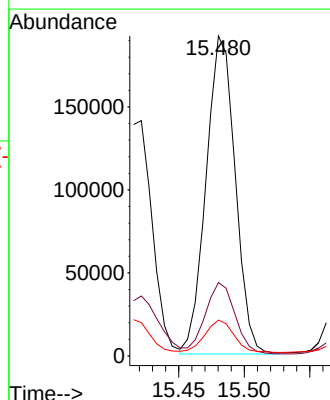
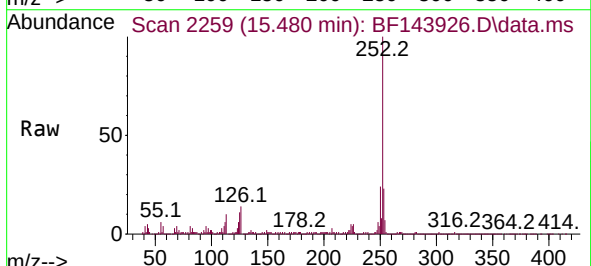
Delta R.T. -0.006 min

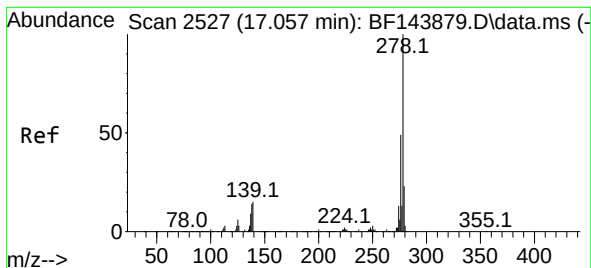
Lab File: BF143926.D

Acq: 10 Oct 2025 15:51

Tgt Ion:252 Resp: 296801

Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.3	25.9
125	11.2	7.0	10.4





#91

Dibenzo(a,h)anthracene

Concen: 2.871 ng

RT: 17.045 min Scan# 2527

Delta R.T. -0.035 min

Lab File: BF143926.D

Acq: 10 Oct 2025 15:51

Instrument :

BNA_F

ClientSampleId :

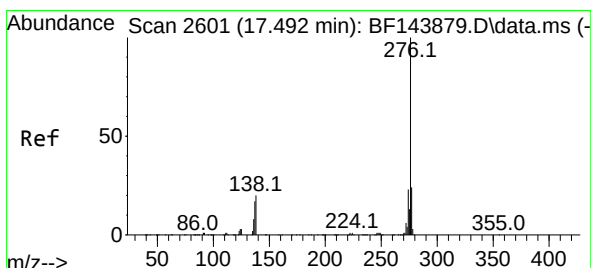
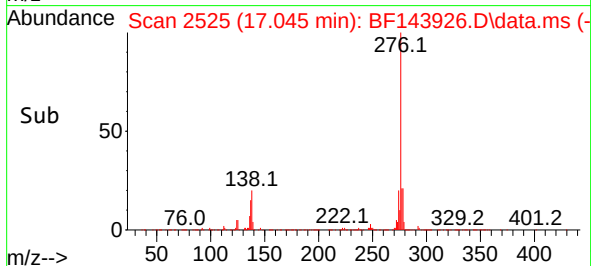
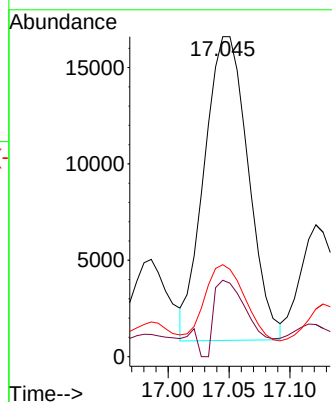
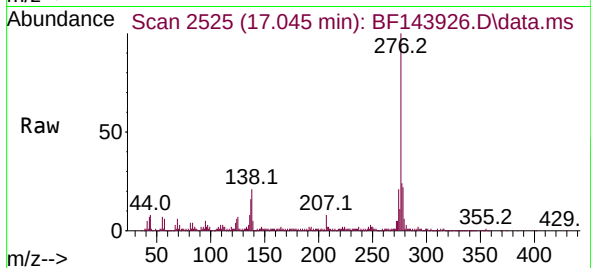
P001-DS-01

Tgt Ion:	278	Resp:	3970
Ion Ratio	Lower	Upper	
278	100		
139	23.9	11.7	17.5
279	28.7	18.4	27.6

Manual Integrations

APPROVED

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



#92

Benzo(g,h,i)perylene

Concen: 11.511 ng

RT: 17.492 min Scan# 2601

Delta R.T. -0.023 min

Lab File: BF143926.D

Acq: 10 Oct 2025 15:51

Tgt Ion:	276	Resp:	159145
Ion Ratio	Lower	Upper	
276	100		
277	24.6	19.0	28.6
138	24.5	16.1	24.1

