

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121323\
 Data File : BF136560.D
 Acq On : 14 Dec 2023 03:06
 Operator : CG\JU
 Sample : 05726-01
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-1

Quant Time: Dec 14 03:52:48 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 06 09:40:27 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 12/14/2023
 Supervised By :mohammad ahmed 12/14/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	71393	20.000	ng	0.00
21) Naphthalene-d8	8.075	136	245806	20.000	ng	0.00
39) Acenaphthene-d10	9.828	164	109468	20.000	ng	-0.01
64) Phenanthrene-d10	11.322	188	200843	20.000	ng	0.00
76) Chrysene-d12	13.974	240	165199	20.000	ng	0.00
86) Perylene-d12	15.457	264	125486	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.434	112	463506	95.880	ng	0.00
7) Phenol-d6	6.440	99	535546	88.793	ng	0.00
23) Nitrobenzene-d5	7.357	82	317639	69.859	ng	-0.01
42) 2,4,6-Tribromophenol	10.622	330	124626	92.333	ng	-0.01
45) 2-Fluorobiphenyl	9.151	172	539594	67.259	ng	-0.01
79) Terphenyl-d14	12.916	244	566611	45.207	ng	0.00
Target Compounds						Qvalue
49) Acenaphthylene	9.686	152	29745	2.880	ng	98
71) Phenanthrene	11.345	178	141878	12.852	ng	98
72) Anthracene	11.392	178	63884	5.746	ng	98
75) Fluoranthene	12.539	202	528904	45.719	ng	98
78) Pyrene	12.769	202	488303	30.181	ng	97
81) Benzo(a)anthracene	13.963	228	287434	24.979	ng	96
83) Chrysene	14.004	228	252942	22.342	ng	96
87) Indeno(1,2,3-cd)pyrene	16.957	276	106017	12.161	ng	95
88) Benzo(b)fluoranthene	15.021	252	261758m	30.509	ng	
89) Benzo(k)fluoranthene	15.051	252	101367m	12.537	ng	
90) Benzo(a)pyrene	15.392	252	185176	26.134	ng	96
91) Dibenzo(a,h)anthracene	16.968	278	27391m	3.835	ng	
92) Benzo(g,h,i)perylene	17.415	276	98486	13.435	ng	99

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

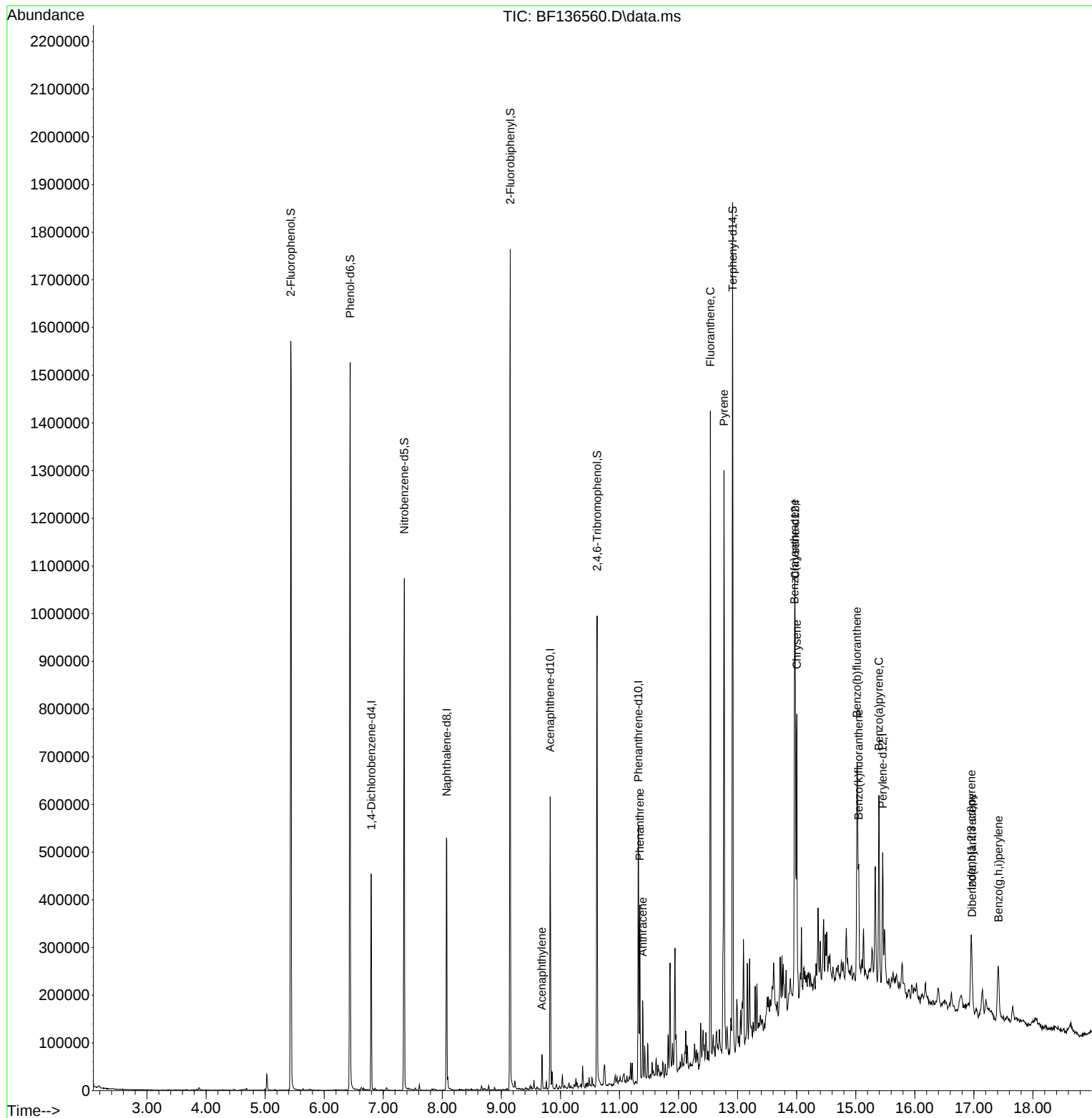
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121323\
Data File : BF136560.D
Acq On : 14 Dec 2023 03:06
Operator : CG\JU
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ALS Vial : 22 Sample Multiplier: 1

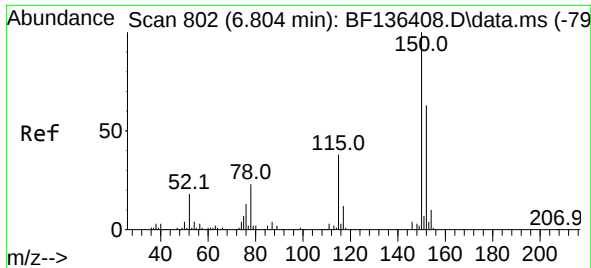
Instrument :
BNA_F
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Quant Time: Dec 14 03:52:48 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120523.M
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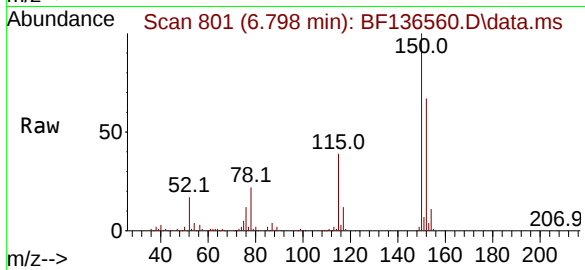
Reviewed By :Yogesh Patel 12/14/2023
Supervised By :mohammad ahmed 12/14/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 802
Delta R.T. -0.006 min
Lab File: BF136560.D
Acq: 14 Dec 2023 03:06

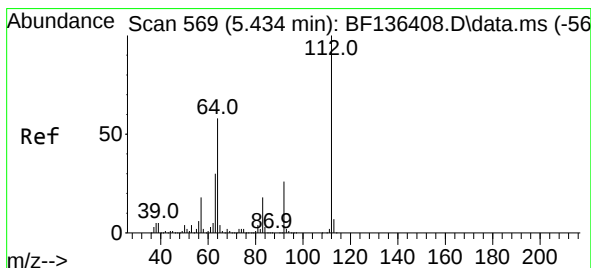
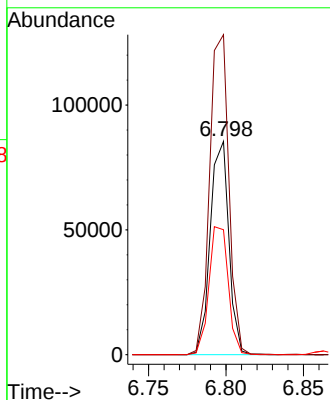
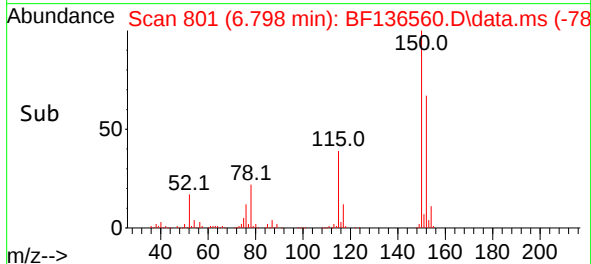
Instrument :
BNA_F
ClientSampleId :
WC-1



Tgt Ion:152 Resp: 7139
Ion Ratio Lower Upper
152 100
150 150.0 126.4 189.6
115 58.6 48.2 72.4

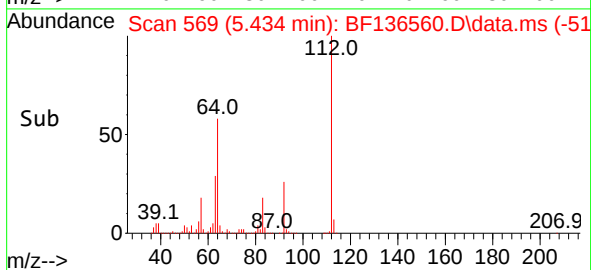
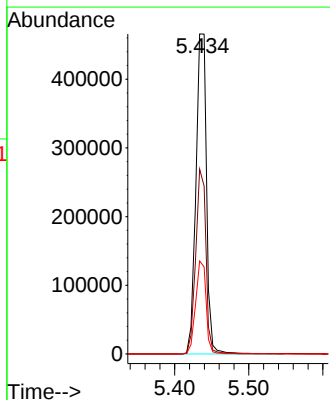
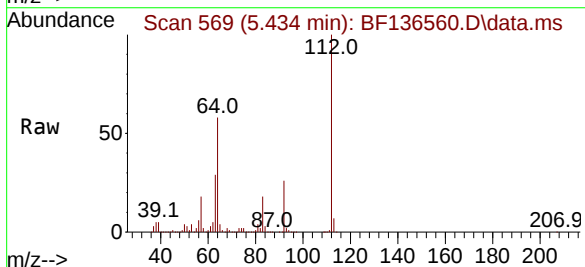
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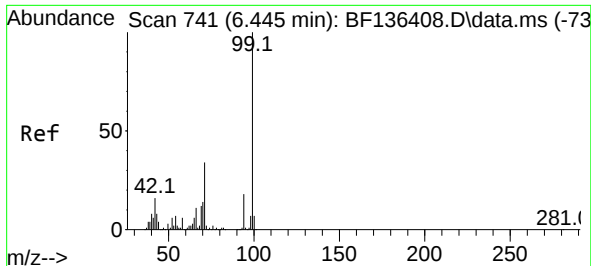
Reviewed By :Yogesh Patel 12/14/2023
Supervised By :mohammad ahmed 12/14/2023



#5
2-Fluorophenol
Concen: 95.880 ng
RT: 5.434 min Scan# 569
Delta R.T. 0.000 min
Lab File: BF136560.D
Acq: 14 Dec 2023 03:06

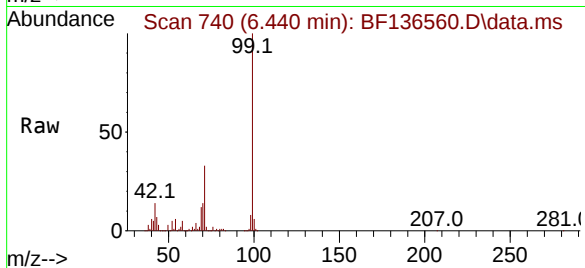
Tgt Ion:112 Resp: 463506
Ion Ratio Lower Upper
112 100
64 57.8 46.5 69.7
63 29.1 23.9 35.9





#7
Phenol-d6
Concen: 88.793 ng
RT: 6.440 min Scan# 741
Delta R.T. -0.006 min
Lab File: BF136560.D
Acq: 14 Dec 2023 03:06

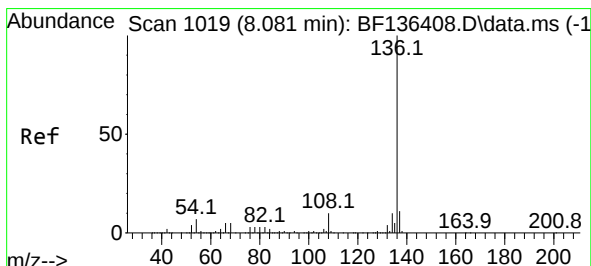
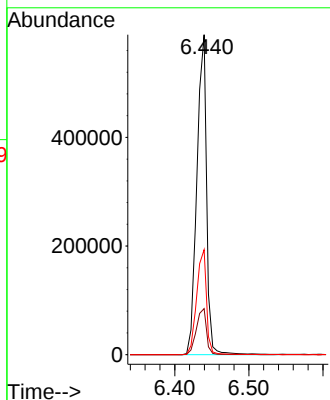
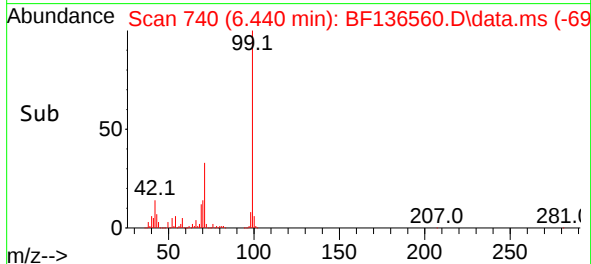
Instrument :
BNA_F
ClientSampleId :
WC-1



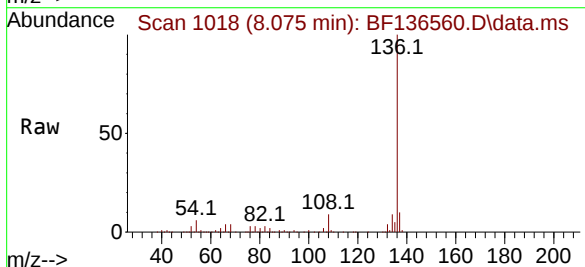
Tgt Ion: 99 Resp: 535540
Ion Ratio Lower Upper
99 100
42 14.4 12.8 19.2
71 32.8 27.0 40.4

Manual Integrations
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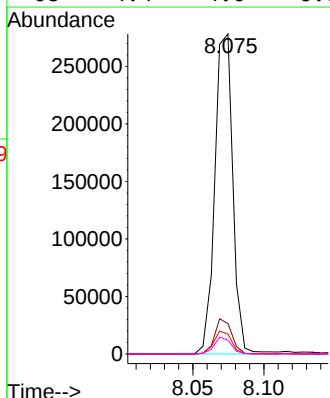
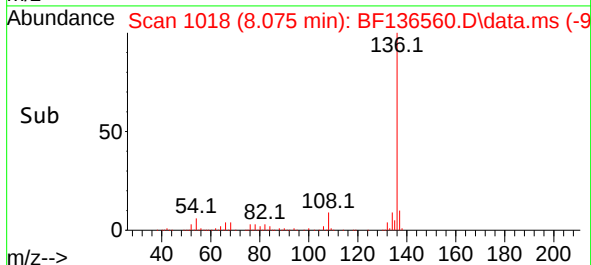
Reviewed By :Yogesh Patel 12/14/2023
Supervised By :mohammad ahmed 12/14/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF136560.D
Acq: 14 Dec 2023 03:06



Tgt Ion:136 Resp: 245806
Ion Ratio Lower Upper
136 100
137 9.5 8.6 12.8
54 6.2 5.7 8.5
68 4.4 4.0 6.0





#23

Nitrobenzene-d5

Concen: 69.859 ng

RT: 7.357 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF136560.D

Acq: 14 Dec 2023 03:06

Instrument :

BNA_F

ClientSampleId :

WC-1

Tgt Ion: 82 Resp: 317639

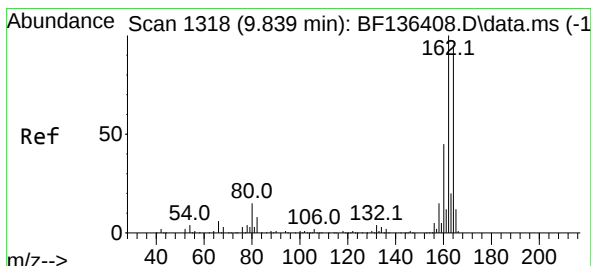
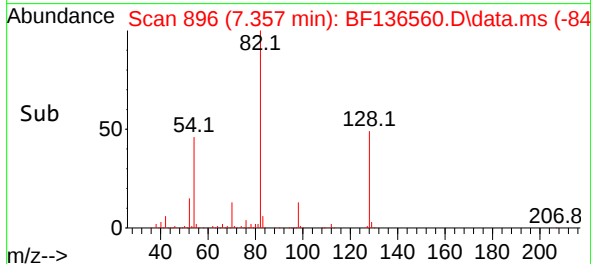
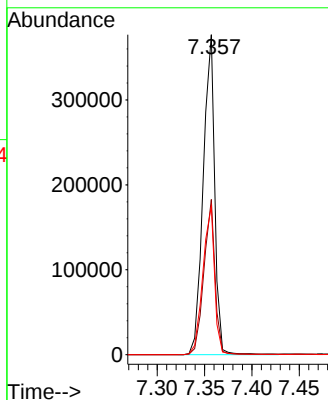
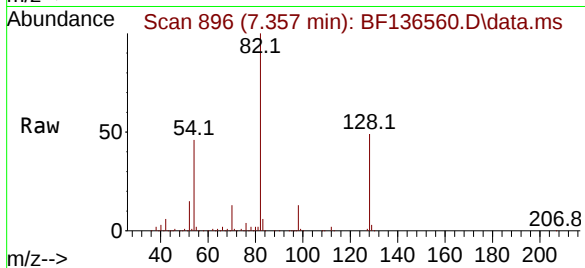
Ion	Ratio	Lower	Upper
82	100		
128	48.5	36.3	54.5
54	46.4	39.0	58.6

Manual Integrations

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Supervised By :mohammad ahmed 12/14/2023



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.828 min Scan# 1316

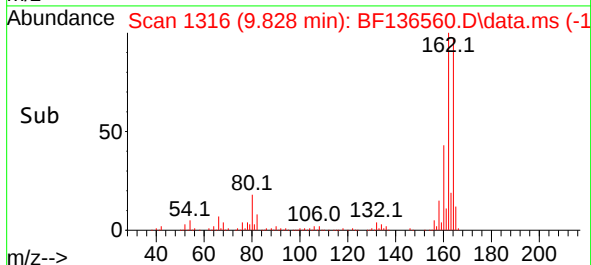
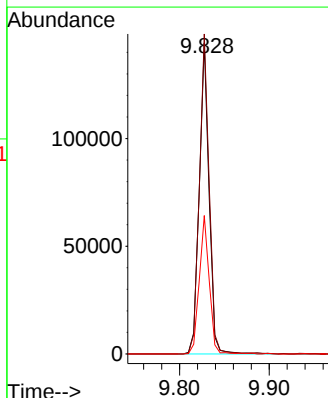
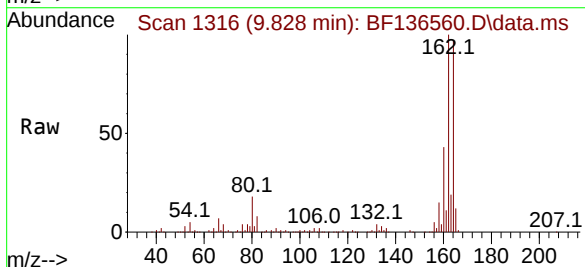
Delta R.T. -0.012 min

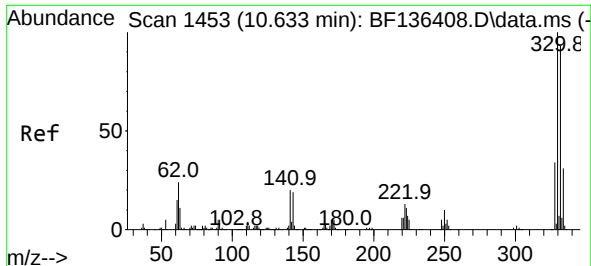
Lab File: BF136560.D

Acq: 14 Dec 2023 03:06

Tgt Ion:164 Resp: 109468

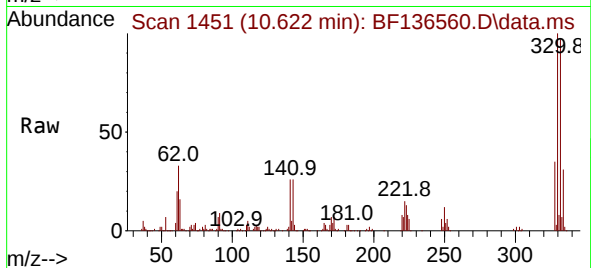
Ion	Ratio	Lower	Upper
164	100		
162	102.9	84.4	126.6
160	44.5	37.6	56.4





#42
2,4,6-Tribromophenol
Concen: 92.333 ng
RT: 10.622 min Scan# 1451
Delta R.T. -0.012 min
Lab File: BF136560.D
Acq: 14 Dec 2023 03:06

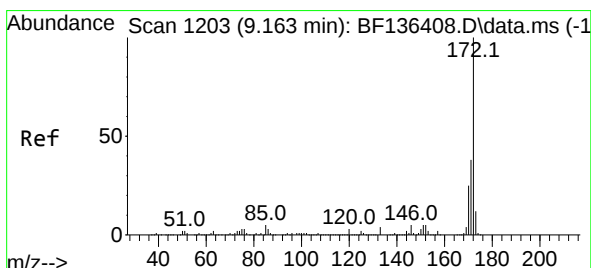
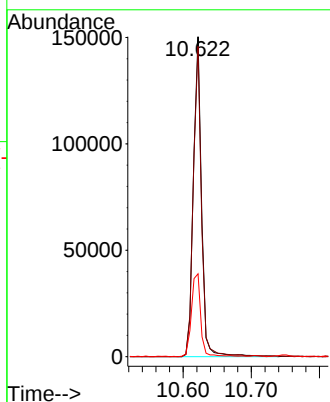
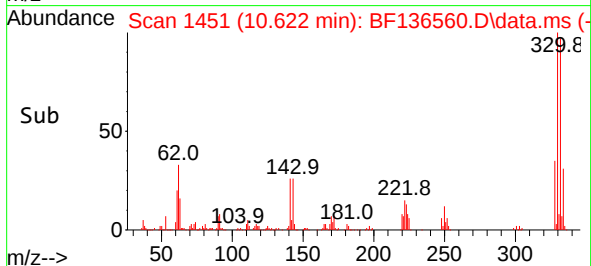
Instrument :
BNA_F
ClientSampleId :
WC-1



Tgt Ion:330 Resp: 124620
Ion Ratio Lower Upper
330 100
332 97.3 76.4 114.6
141 29.7 23.4 35.2

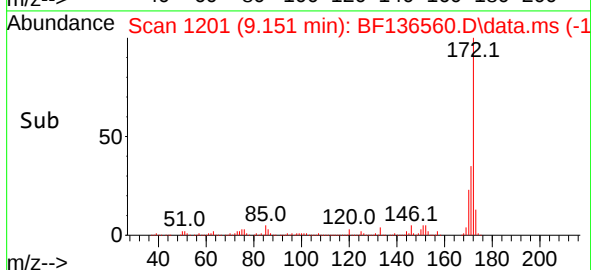
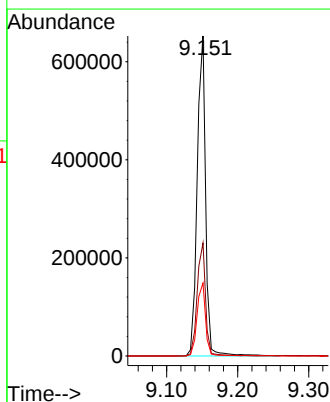
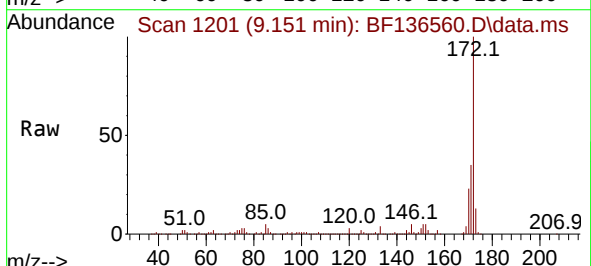
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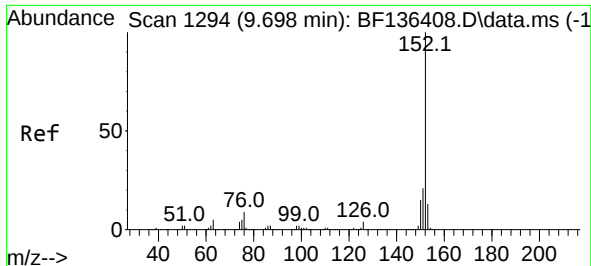
Reviewed By :Yogesh Patel 12/14/2023
Supervised By :mohammad ahmed 12/14/2023



#45
2-Fluorobiphenyl
Concen: 67.259 ng
RT: 9.151 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF136560.D
Acq: 14 Dec 2023 03:06

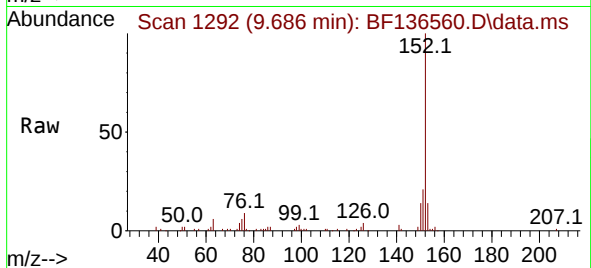
Tgt Ion:172 Resp: 539594
Ion Ratio Lower Upper
172 100
171 35.3 30.5 45.7
170 22.8 19.9 29.9





#49
Acenaphthylene
Concen: 2.880 ng
RT: 9.686 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF136560.D
Acq: 14 Dec 2023 03:06

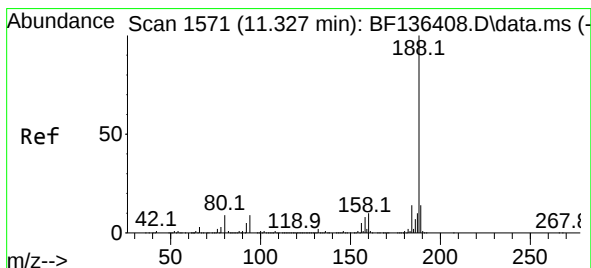
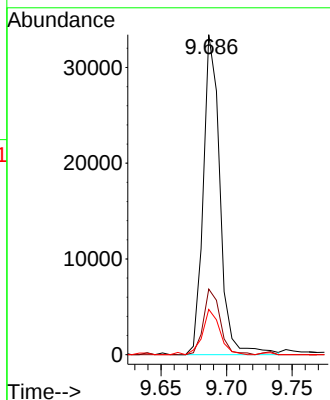
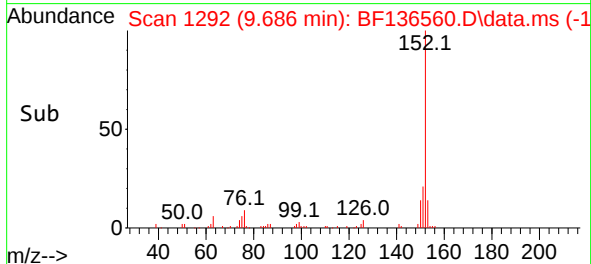
Instrument :
BNA_F
ClientSampleId :
WC-1



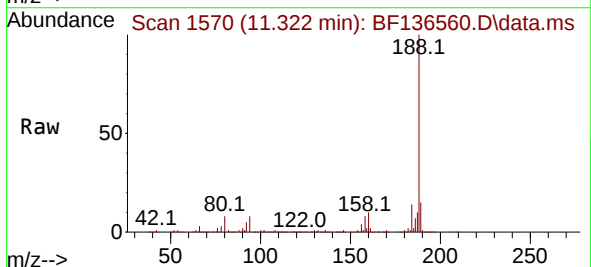
Tgt Ion:152 Resp: 2974
Ion Ratio Lower Upper
152 100
151 20.5 17.2 25.8
153 14.1 10.6 15.8

Manual Integrations
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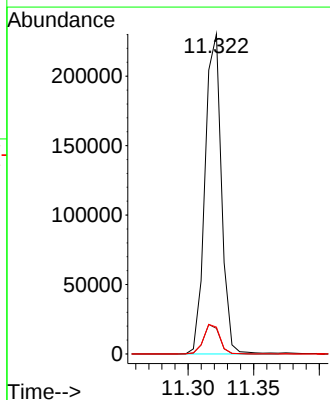
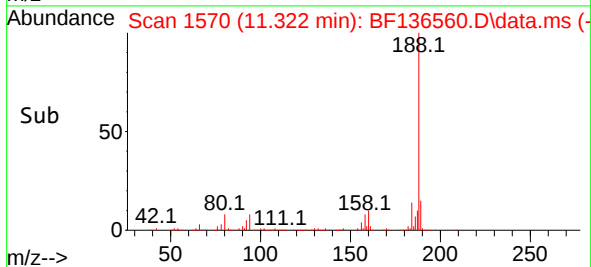
Reviewed By :Yogesh Patel 12/14/2023
Supervised By :mohammad ahmed 12/14/2023

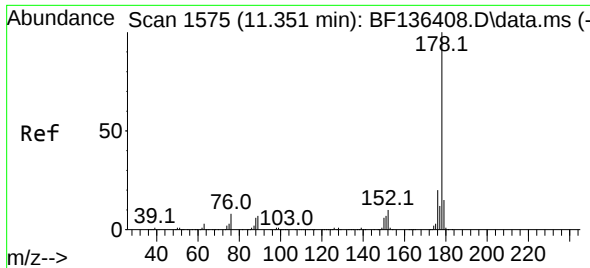


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.322 min Scan# 1570
Delta R.T. -0.006 min
Lab File: BF136560.D
Acq: 14 Dec 2023 03:06



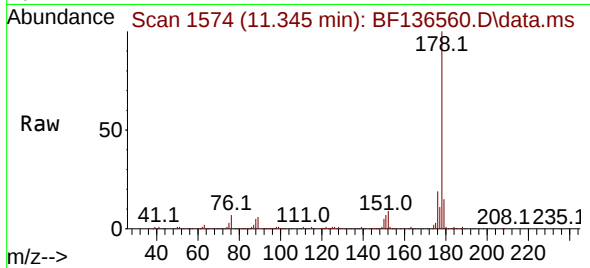
Tgt Ion:188 Resp: 200843
Ion Ratio Lower Upper
188 100
94 8.0 7.2 10.8
80 8.4 7.2 10.8





#71
Phenanthrene
Concen: 12.852 ng
RT: 11.345 min Scan# 1575
Delta R.T. -0.006 min
Lab File: BF136560.D
Acq: 14 Dec 2023 03:06

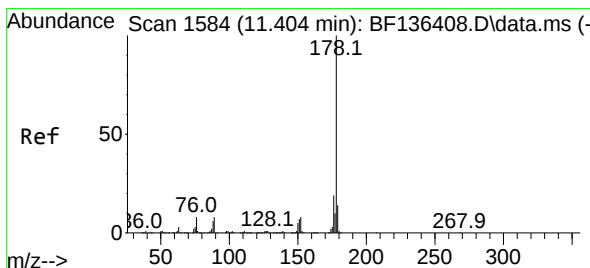
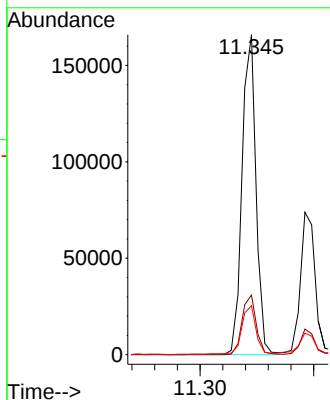
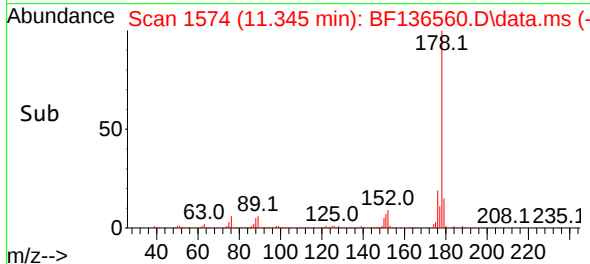
Instrument :
BNA_F
ClientSampleId :
WC-1



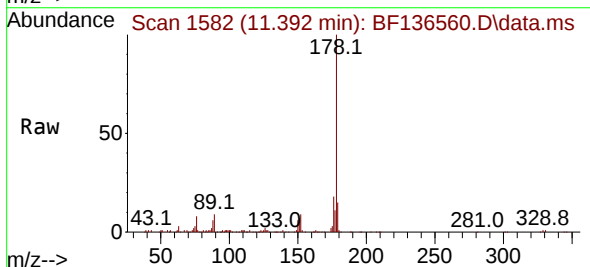
Tgt Ion:178 Resp: 141878
Ion Ratio Lower Upper
178 100
176 18.7 15.9 23.9
179 15.3 11.8 17.6

Manual Integrations
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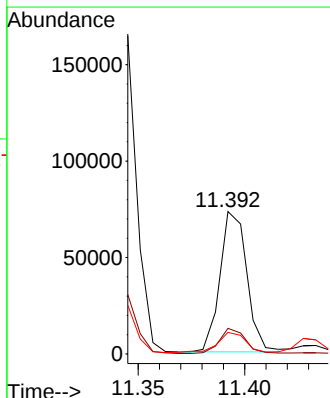
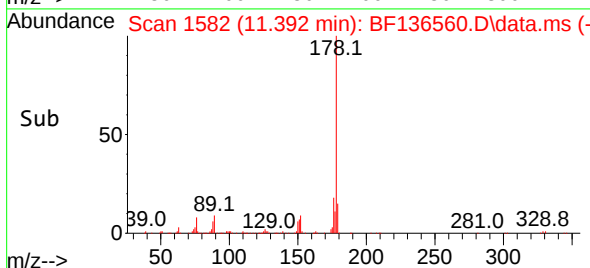
Reviewed By :Yogesh Patel 12/14/2023
Supervised By :mohammad ahmed 12/14/2023

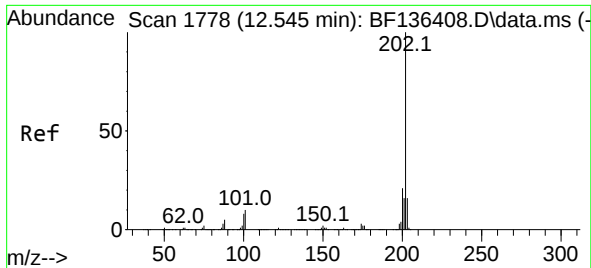


#72
Anthracene
Concen: 5.746 ng
RT: 11.392 min Scan# 1582
Delta R.T. -0.012 min
Lab File: BF136560.D
Acq: 14 Dec 2023 03:06



Tgt Ion:178 Resp: 63884
Ion Ratio Lower Upper
178 100
176 17.9 15.3 22.9
179 15.1 11.4 17.0





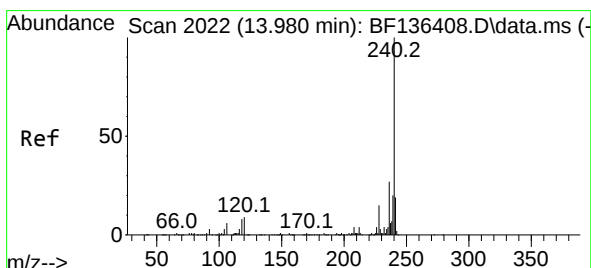
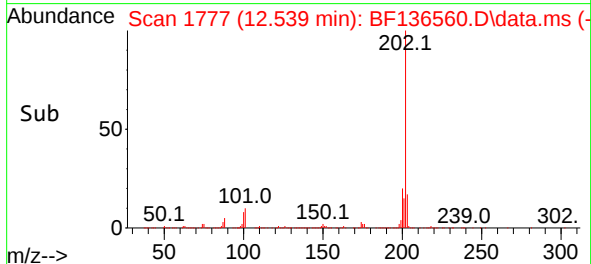
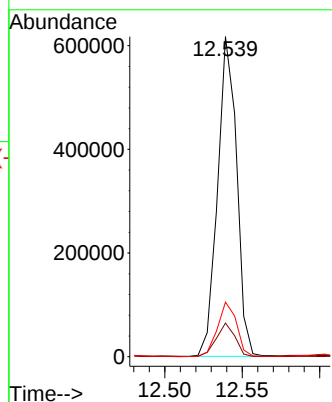
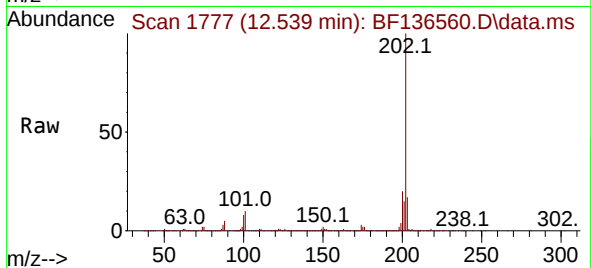
#75
Fluoranthene
Concen: 45.719 ng
RT: 12.539 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136560.D
Acq: 14 Dec 2023 03:06

Instrument :
BNA_F
ClientSampleId :
WC-1

Tgt Ion:202 Resp: 528904
Ion Ratio Lower Upper
202 100
101 10.5 0.0 29.9
203 17.1 0.0 36.3

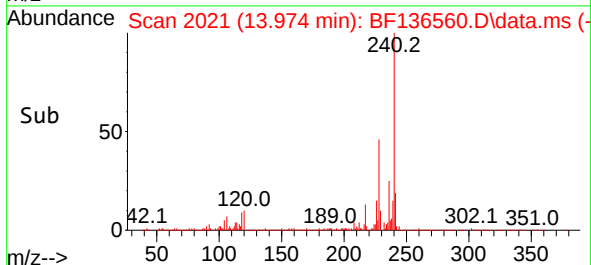
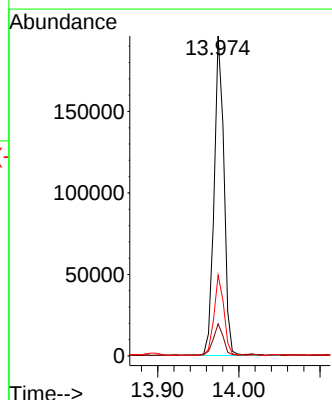
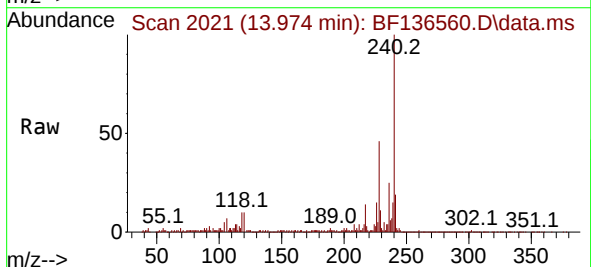
Manual Integrations
APPROVED

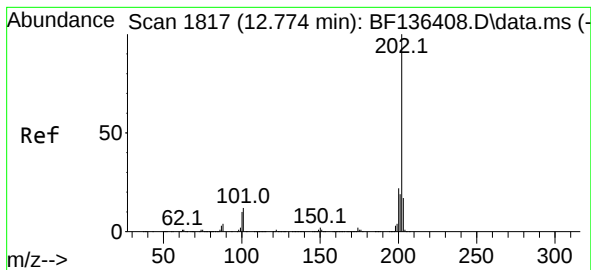
Reviewed By :Yogesh Patel 12/14/2023
Supervised By :mohammad ahmed 12/14/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.974 min Scan# 2021
Delta R.T. -0.006 min
Lab File: BF136560.D
Acq: 14 Dec 2023 03:06

Tgt Ion:240 Resp: 165199
Ion Ratio Lower Upper
240 100
120 10.0 7.3 10.9
236 25.2 21.3 31.9





#78

Pyrene

Concen: 30.181 ng

RT: 12.769 min Scan# 1816

Delta R.T. -0.006 min

Lab File: BF136560.D

Acq: 14 Dec 2023 03:06

Instrument :

BNA_F

ClientSampleId :

WC-1

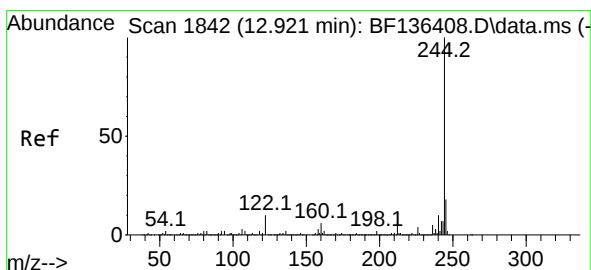
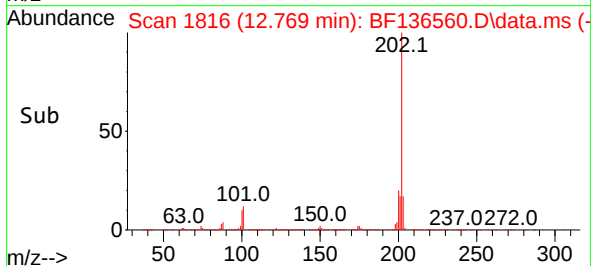
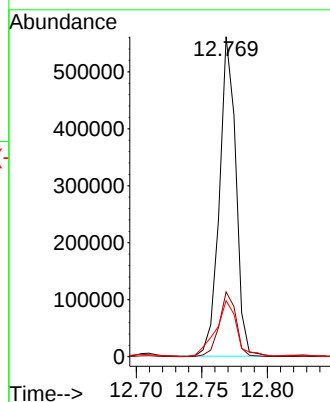
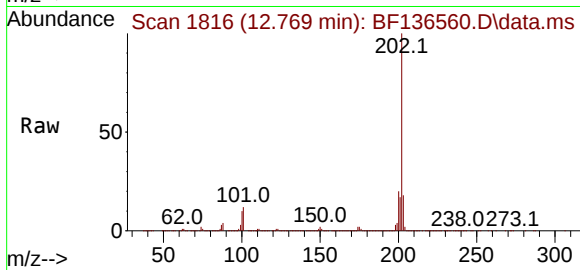
Tgt Ion:202 Resp: 48830
 Ion Ratio Lower Upper
 202 100
 200 20.3 18.0 27.0
 203 17.5 13.5 20.3

Manual Integrations

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Reviewed By :Yogesh Patel 12/14/2023

Supervised By :mohammad ahmed 12/14/2023



#79

Terphenyl-d14

Concen: 45.207 ng

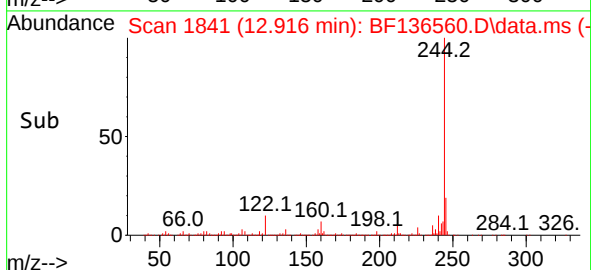
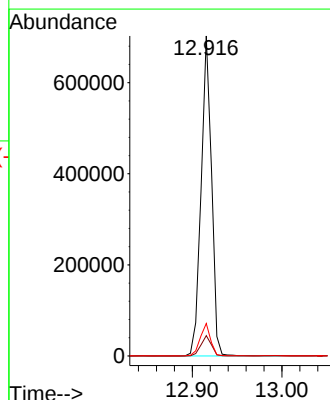
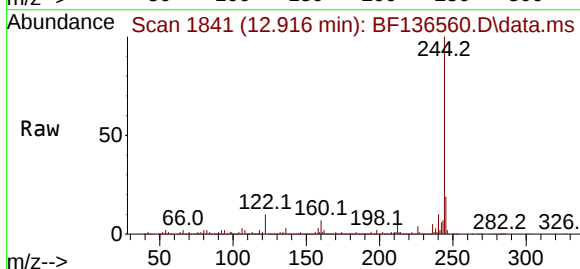
RT: 12.916 min Scan# 1841

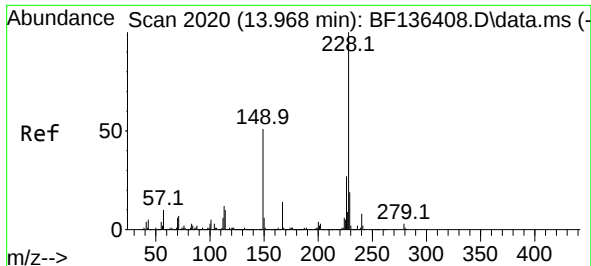
Delta R.T. -0.006 min

Lab File: BF136560.D

Acq: 14 Dec 2023 03:06

Tgt Ion:244 Resp: 566611
 Ion Ratio Lower Upper
 244 100
 212 6.3 5.0 7.4
 122 10.1 8.3 12.5





#81
Benzo(a)anthracene
Concen: 24.979 ng
RT: 13.963 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF136560.D
Acq: 14 Dec 2023 03:06

Instrument :

BNA_F

ClientSampleId :

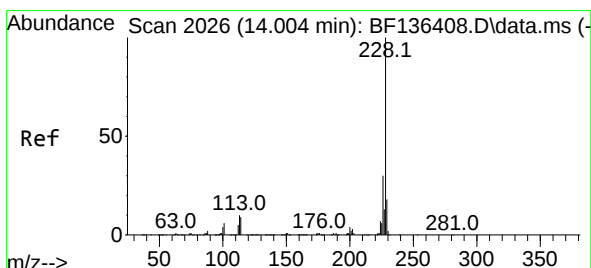
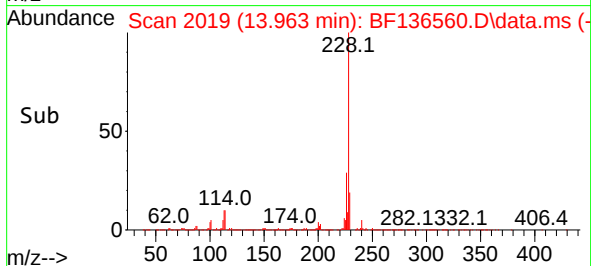
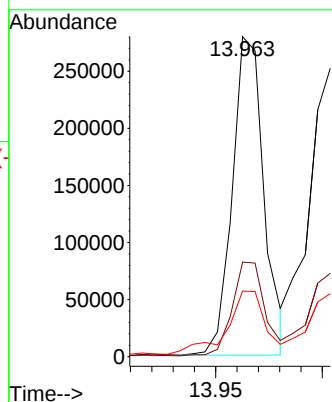
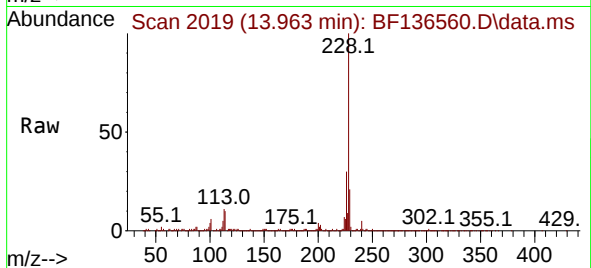
WC-1

Tgt Ion:228 Resp: 287434
Ion Ratio Lower Upper
228 100
226 29.5 21.8 32.8
229 20.5 15.0 22.4

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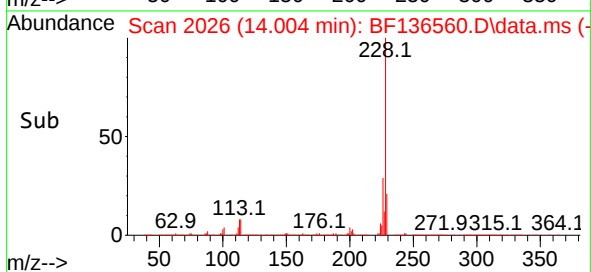
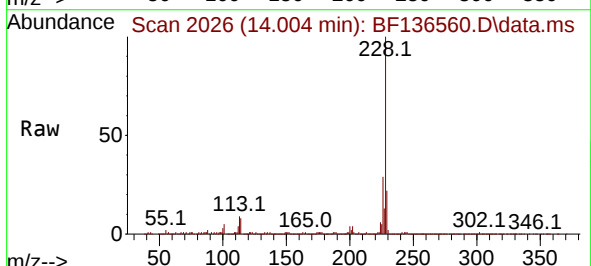
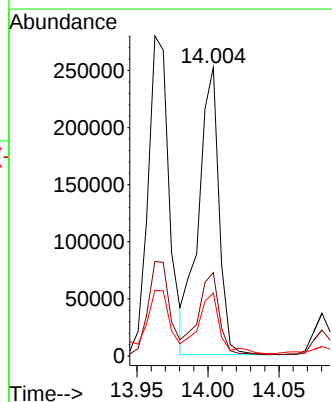
APPROVED

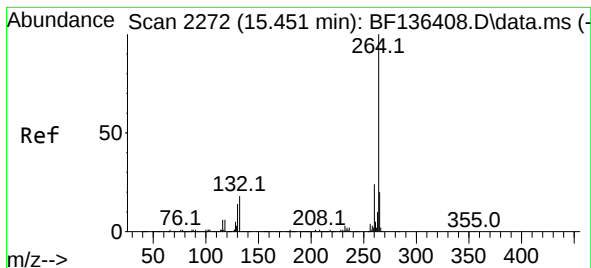
Reviewed By :Yogesh Patel 12/14/2023
Supervised By :mohammad ahmed 12/14/2023



#83
Chrysene
Concen: 22.342 ng
RT: 14.004 min Scan# 2026
Delta R.T. 0.000 min
Lab File: BF136560.D
Acq: 14 Dec 2023 03:06

Tgt Ion:228 Resp: 252942
Ion Ratio Lower Upper
228 100
226 28.9 23.8 35.6
229 21.9 14.8 22.2





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.457 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF136560.D

Acq: 14 Dec 2023 03:06

Instrument :

BNA_F

ClientSampleId :

WC-1

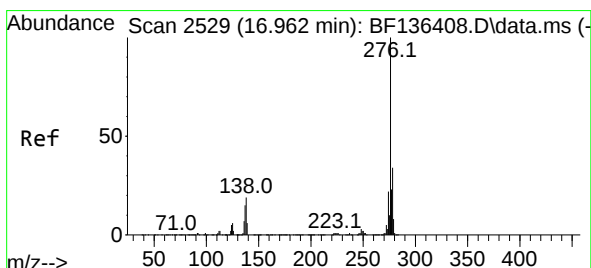
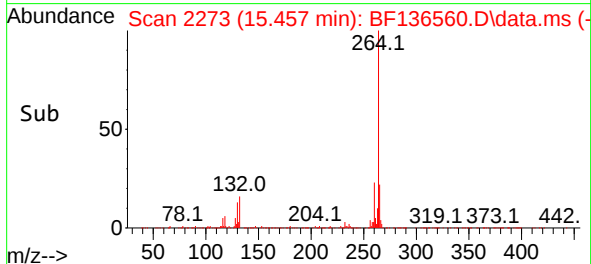
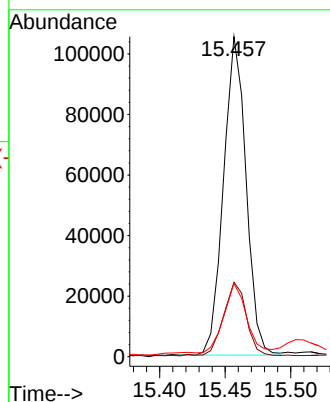
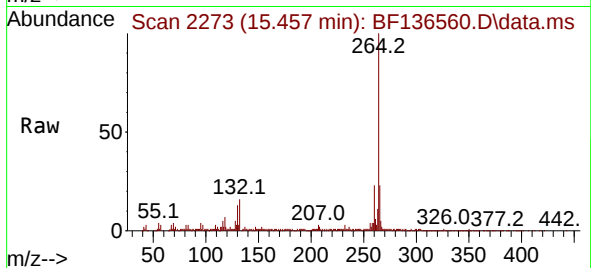
Tgt Ion:264 Resp: 125480
 Ion Ratio Lower Upper
 264 100
 260 23.3 19.2 28.8
 265 22.9 15.9 23.9

Manual Integrations

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Reviewed By :Yogesh Patel 12/14/2023

Supervised By :mohammad ahmed 12/14/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 12.161 ng

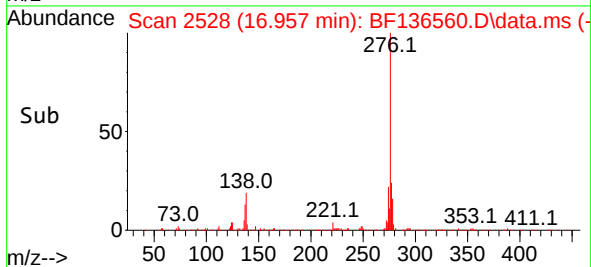
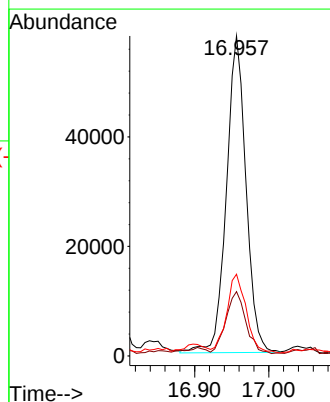
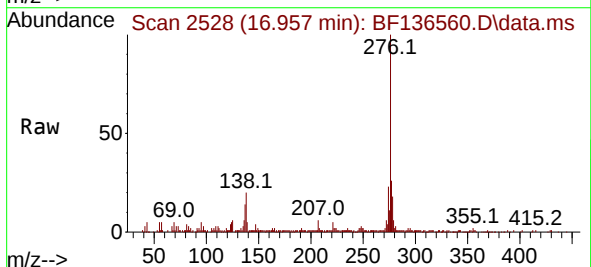
RT: 16.957 min Scan# 2528

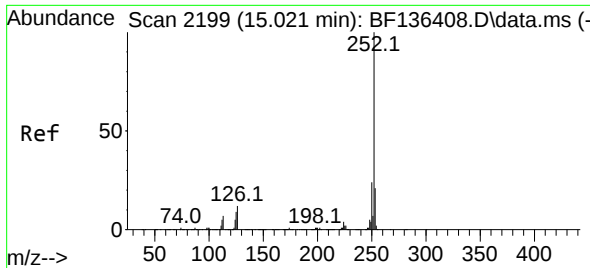
Delta R.T. -0.006 min

Lab File: BF136560.D

Acq: 14 Dec 2023 03:06

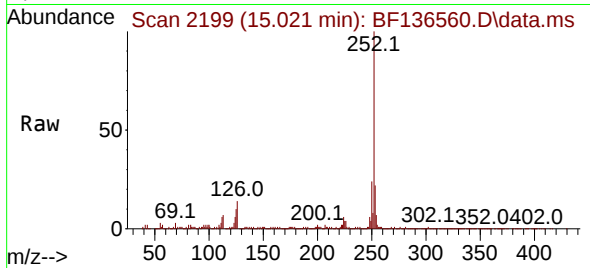
Tgt Ion:276 Resp: 106017
 Ion Ratio Lower Upper
 276 100
 138 19.5 19.0 28.4
 277 24.6 20.0 30.0





#88
Benzo(b)fluoranthene
Concen: 30.509 ng m
RT: 15.021 min Scan# 2199
Delta R.T. 0.000 min
Lab File: BF136560.D
Acq: 14 Dec 2023 03:06

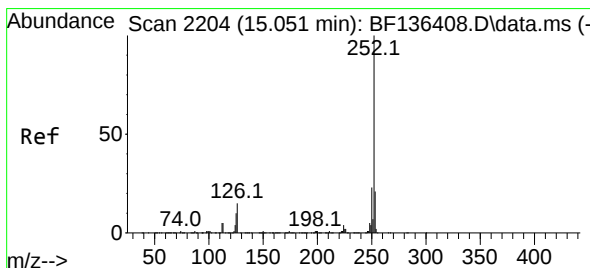
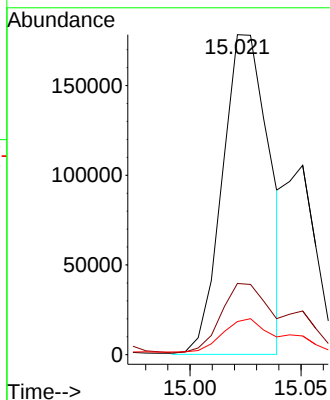
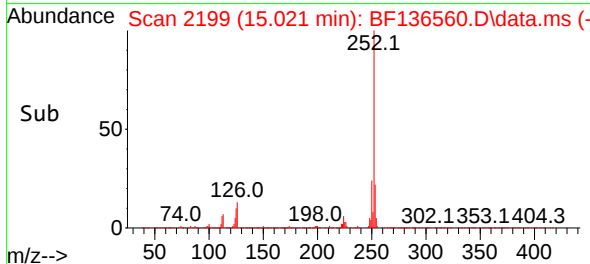
Instrument :
BNA_F
ClientSampleId :
WC-1



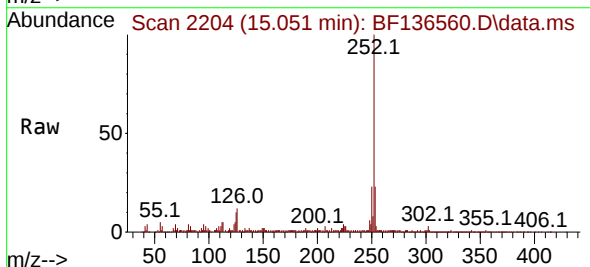
Tgt Ion:252 Resp: 261758
Ion Ratio Lower Upper
252 100
253 22.2 16.9 25.3
125 10.4 7.4 11.2

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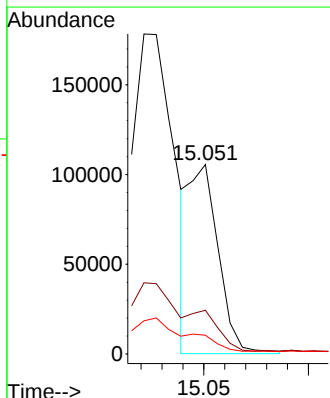
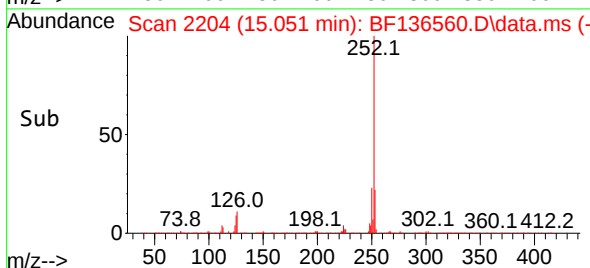
Reviewed By :Yogesh Patel 12/14/2023
Supervised By :mohammad ahmed 12/14/2023

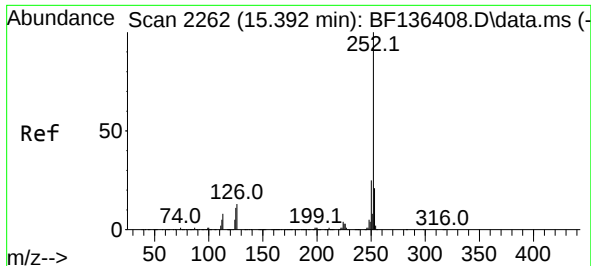


#89
Benzo(k)fluoranthene
Concen: 12.537 ng m
RT: 15.051 min Scan# 2204
Delta R.T. 0.000 min
Lab File: BF136560.D
Acq: 14 Dec 2023 03:06



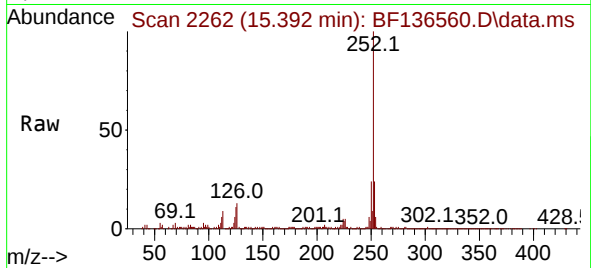
Tgt Ion:252 Resp: 101367
Ion Ratio Lower Upper
252 100
253 23.0 16.9 25.3
125 9.9 7.5 11.3





#90
Benzo(a)pyrene
Concen: 26.134 ng
RT: 15.392 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF136560.D
Acq: 14 Dec 2023 03:06

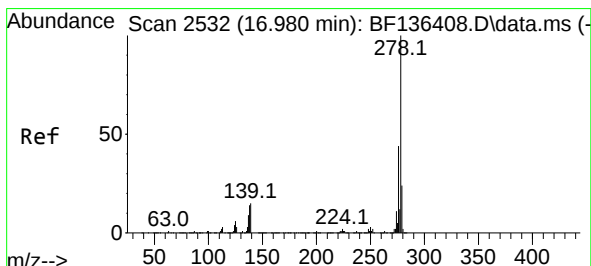
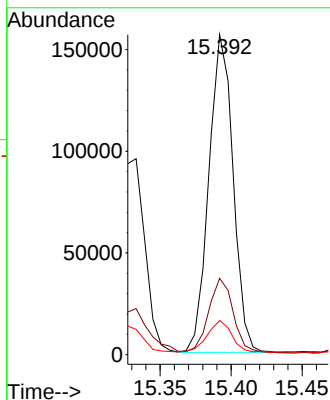
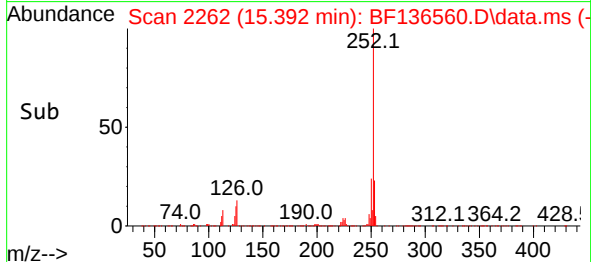
Instrument :
BNA_F
ClientSampleId :
WC-1



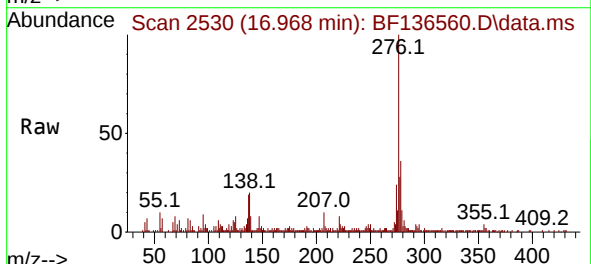
Tgt Ion:252 Resp: 185170
Ion Ratio Lower Upper
252 100
253 23.8 17.0 25.4
125 10.7 8.6 13.0

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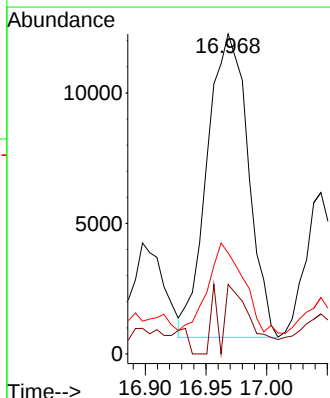
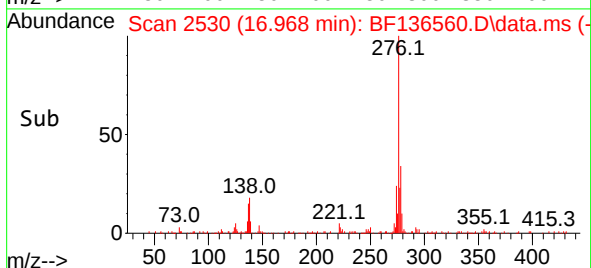
Reviewed By :Yogesh Patel 12/14/2023
Supervised By :mohammad ahmed 12/14/2023

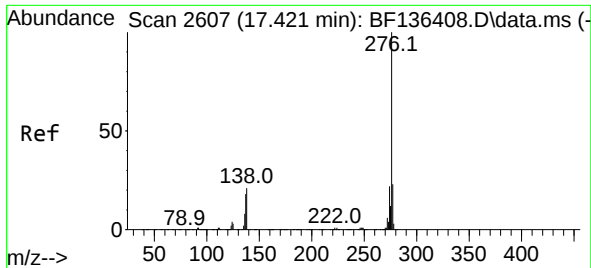


#91
Dibenzo(a,h)anthracene
Concen: 3.835 ng m
RT: 16.968 min Scan# 2530
Delta R.T. -0.012 min
Lab File: BF136560.D
Acq: 14 Dec 2023 03:06



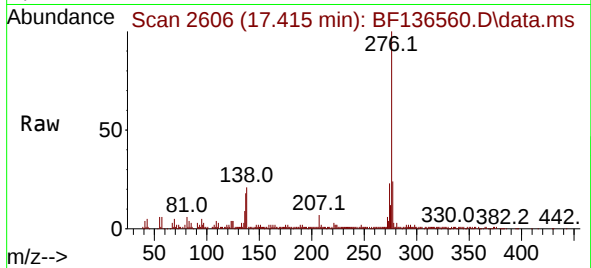
Tgt Ion:278 Resp: 27391
Ion Ratio Lower Upper
278 100
139 21.7 12.2 18.4#
279 31.6 19.0 28.4#





#92
 Benzo(g,h,i)perylene
 Concen: 13.435 ng
 RT: 17.415 min Scan# 20
 Delta R.T. -0.006 min
 Lab File: BF136560.D
 Acq: 14 Dec 2023 03:06

Instrument :
 BNA_F
 ClientSampleId :
 WC-1



Tgt Ion: 276 Resp: 98480

Ion	Ratio	Lower	Upper
276	100		
277	24.5	18.7	28.1
138	20.8	16.6	25.0

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 12/14/2023
 Supervised By :mohammad ahmed 12/14/2023

