

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103123\
 Data File : BF136062.D
 Acq On : 31 Oct 2023 20:41
 Operator : CG\JU
 Sample : 04858-01
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-1

Quant Time: Nov 01 00:37:36 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 31 01:13:02 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/01/2023
 Supervised By :mohammad ahmed 11/01/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.822	152	114918	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	386818	20.000	ng	0.00
39) Acenaphthene-d10	9.863	164	172949	20.000	ng	0.00
64) Phenanthrene-d10	11.357	188	330365	20.000	ng	0.00
76) Chrysene-d12	14.021	240	283411	20.000	ng	0.00
86) Perylene-d12	15.510	264	233526	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.451	112	618673	84.598	ng	0.00
7) Phenol-d6	6.451	99	723064	79.356	ng	0.00
23) Nitrobenzene-d5	7.381	82	395706	61.668	ng	-0.01
42) 2,4,6-Tribromophenol	10.651	330	158725	85.982	ng	0.00
45) 2-Fluorobiphenyl	9.181	172	663402	61.147	ng	0.00
79) Terphenyl-d14	12.957	244	783489	42.961	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.128	128	627579	33.645	ng	100
37) 2-Methylnaphthalene	8.816	142	199910	15.984	ng	99
38) 1-Methylnaphthalene	8.916	142	134583	11.563	ng	99
46) 1,1'-Biphenyl	9.281	154	45491	3.450	ng	98
49) Acenaphthylene	9.722	152	43303	2.856	ng	# 96
52) Acenaphthene	9.892	154	201099	20.863	ng	98
55) Dibenzofuran	10.069	168	225010	16.009	ng	98
58) Fluorene	10.410	166	312789	29.724	ng	99
71) Phenanthrene	11.386	178	1833187	110.207	ng	99
72) Anthracene	11.433	178	647918	38.013	ng	99
73) Carbazole	11.586	167	191557	12.933	ng	100
75) Fluoranthene	12.586	202	2014958	117.915	ng	99
78) Pyrene	12.816	202	1767619	70.742	ng	99
81) Benzo(a)anthracene	14.010	228	1022986	54.523	ng	98
83) Chrysene	14.045	228	874518	47.328	ng	98
87) Indeno(1,2,3-cd)pyrene	17.021	276	283120	18.550	ng	95
88) Benzo(b)fluoranthene	15.074	252	880655m	63.732	ng	
89) Benzo(k)fluoranthene	15.098	252	264769m	19.365	ng	
90) Benzo(a)pyrene	15.445	252	567171	44.175	ng	97
91) Dibenzo(a,h)anthracene	17.039	278	79166m	6.332	ng	
92) Benzo(g,h,i)perylene	17.486	276	244192	19.016	ng	97

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

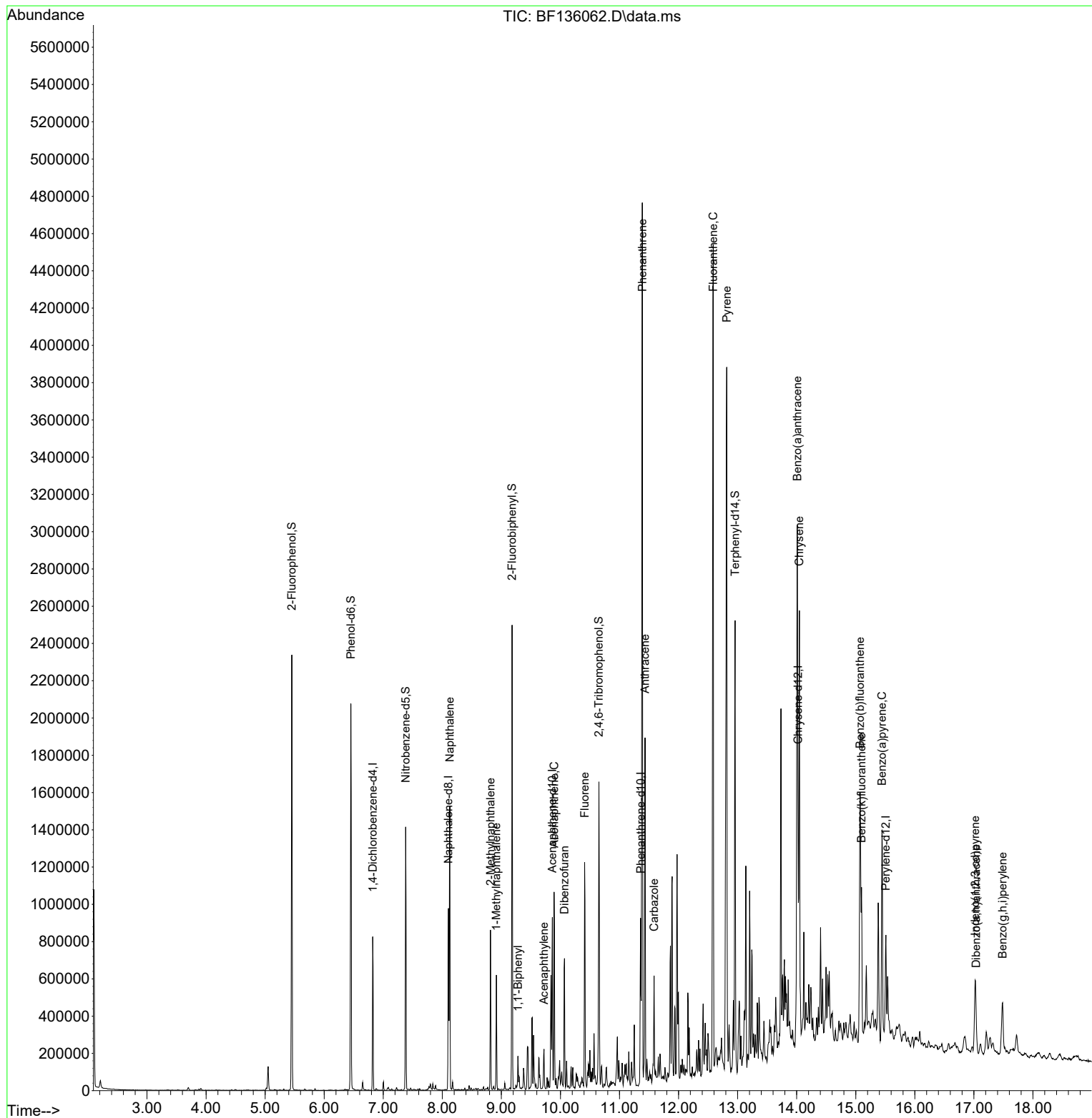
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103123\
Data File : BF136062.D
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ALS Vial : 20 Sample Multiplier: 1

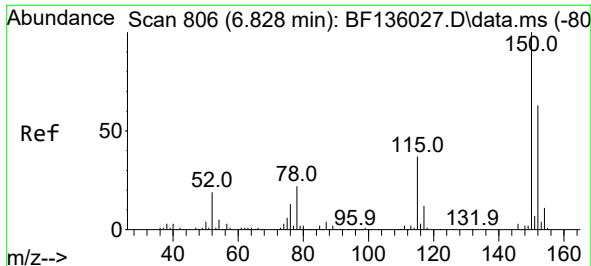
Instrument :
BNA_F
ClientSampleId :
WC-1

Quant Time: Nov 01 00:37:36 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 31 01:13:02 2023
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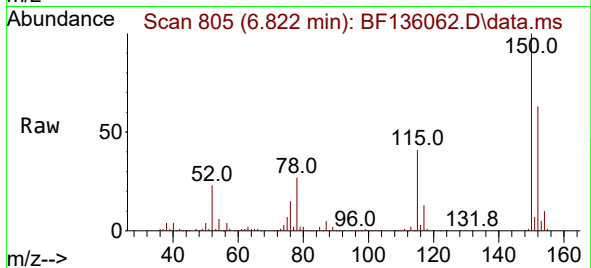
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 806
Delta R.T. -0.006 min
Lab File: BF136062.D
Acq: 31 Oct 2023 20:41

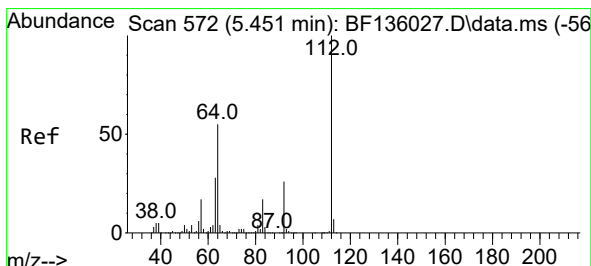
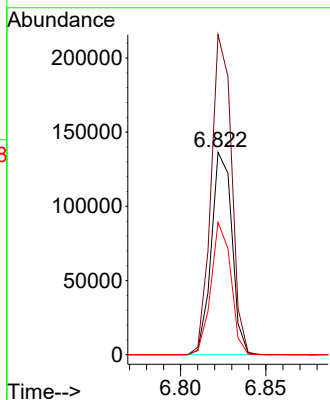
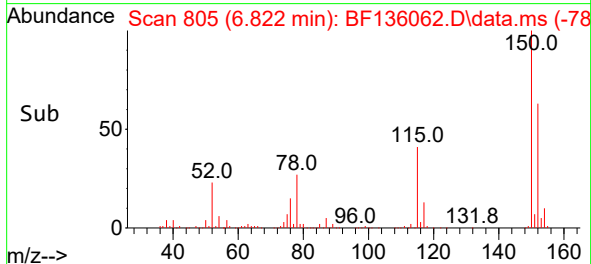
Instrument :
BNA_F
ClientSampleId :
WC-1



Tgt Ion:152 Resp: 114918
Ion Ratio Lower Upper
152 100
150 158.0 126.4 189.6
115 65.3 47.0 70.4

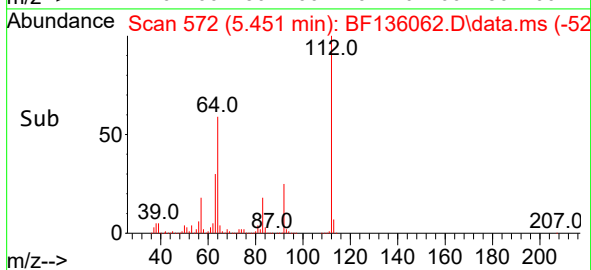
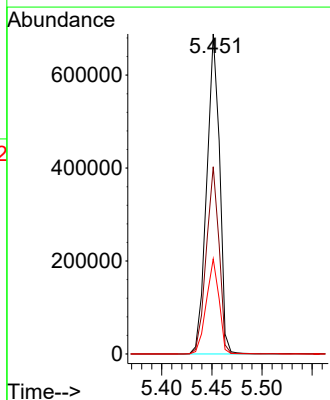
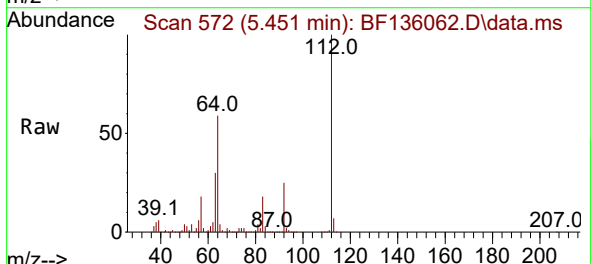
Manual Integrations
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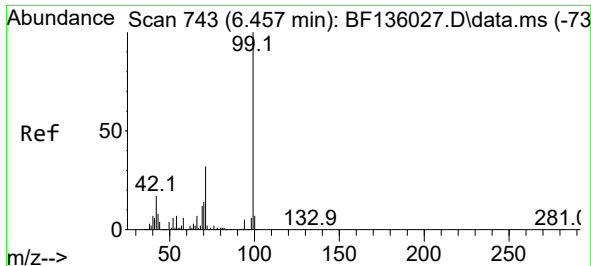
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#5
2-Fluorophenol
Concen: 84.598 ng
RT: 5.451 min Scan# 572
Delta R.T. 0.000 min
Lab File: BF136062.D
Acq: 31 Oct 2023 20:41

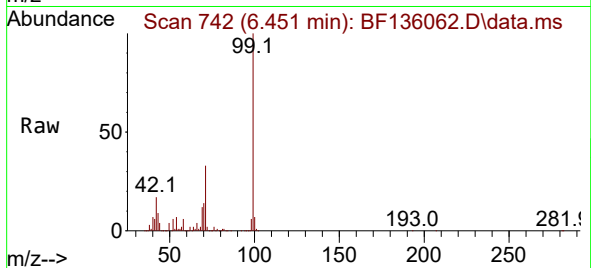
Tgt Ion:112 Resp: 618673
Ion Ratio Lower Upper
112 100
64 58.5 43.9 65.9
63 29.7 22.4 33.6





#7
Phenol-d6
Concen: 79.356 ng
RT: 6.451 min Scan# 743
Delta R.T. -0.006 min
Lab File: BF136062.D
Acq: 31 Oct 2023 20:41

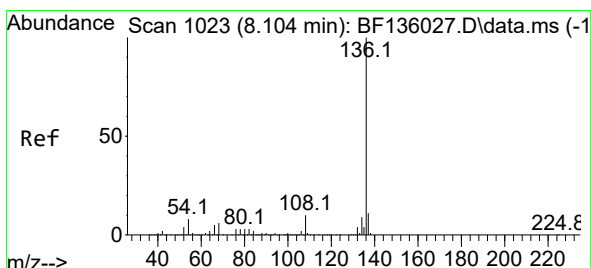
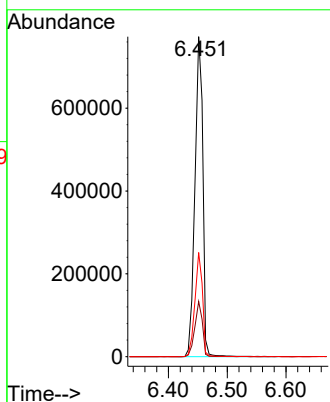
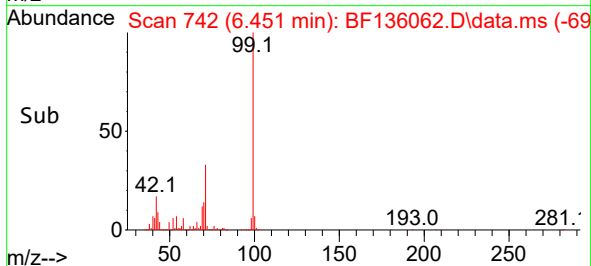
Instrument :
BNA_F
ClientSampleId :
WC-1



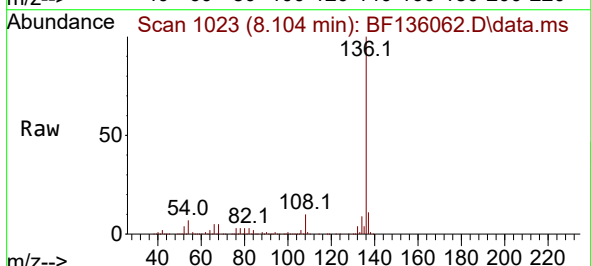
Tgt Ion: 99 Resp: 723064
Ion Ratio Lower Upper
99 100
42 17.2 13.7 20.5
71 32.6 25.9 38.9

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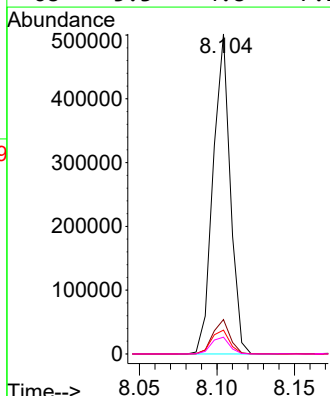
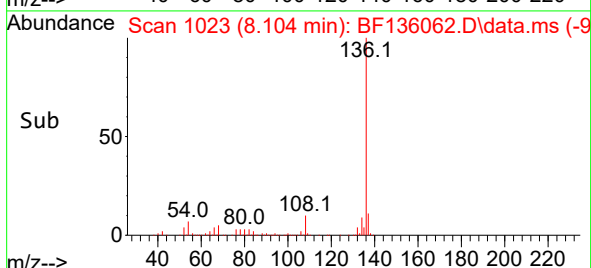
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

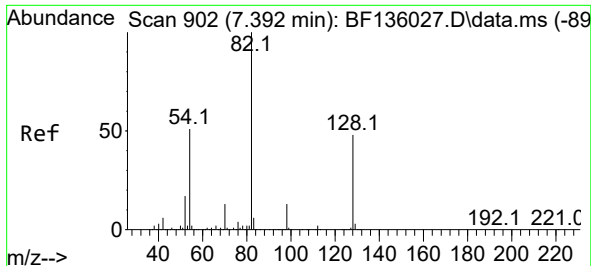


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF136062.D
Acq: 31 Oct 2023 20:41



Tgt Ion:136 Resp: 386818
Ion Ratio Lower Upper
136 100
137 10.8 8.6 13.0
54 7.4 6.6 9.8
68 5.3 4.8 7.2





#23

Nitrobenzene-d5

Concen: 61.668 ng

RT: 7.381 min Scan# 90

Delta R.T. -0.012 min

Lab File: BF136062.D

Acq: 31 Oct 2023 20:41

Instrument :

BNA_F

ClientSampleId :

WC-1

Tgt Ion: 82 Resp: 395700

Ion Ratio Lower Upper

82 100

128 45.1 38.6 57.8

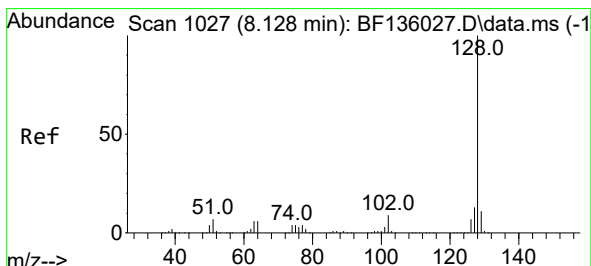
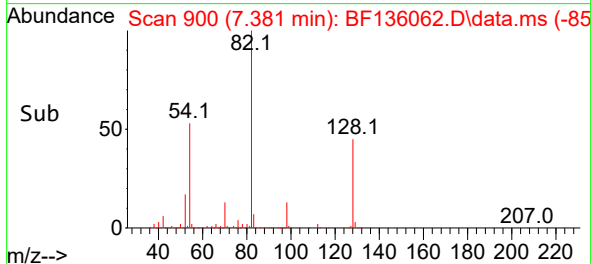
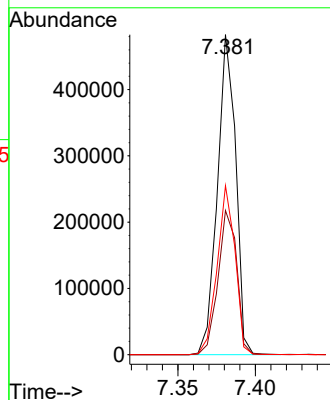
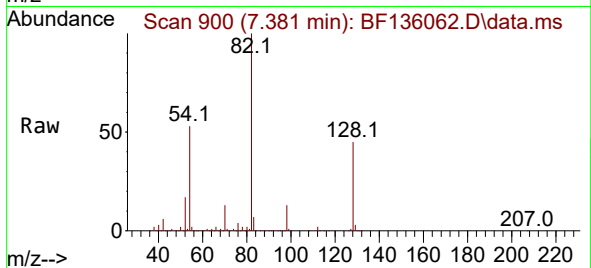
54 52.8 40.8 61.2

Manual Integrations

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#31

Naphthalene

Concen: 33.645 ng

RT: 8.128 min Scan# 1027

Delta R.T. 0.000 min

Lab File: BF136062.D

Acq: 31 Oct 2023 20:41

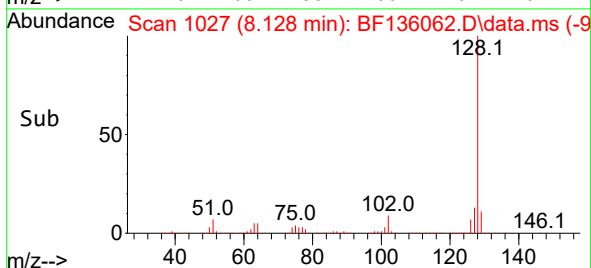
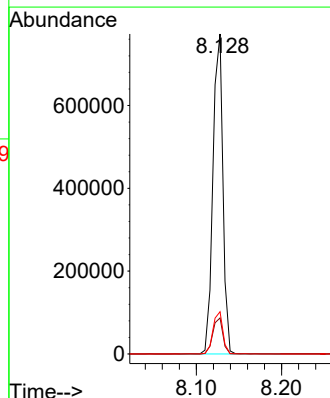
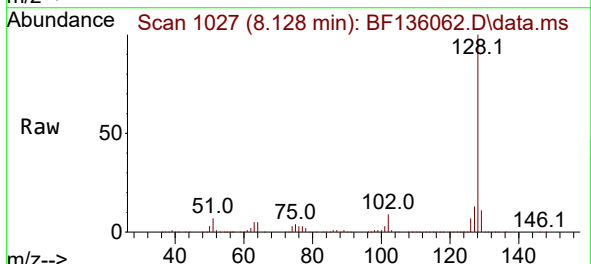
Tgt Ion:128 Resp: 627579

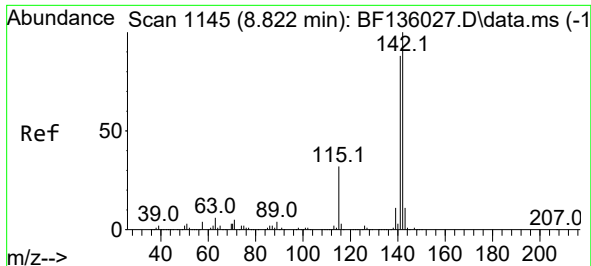
Ion Ratio Lower Upper

128 100

129 11.2 8.9 13.3

127 13.2 10.5 15.7





#37

2-Methylnaphthalene

Concen: 15.984 ng

RT: 8.816 min Scan# 1144

Delta R.T. -0.006 min

Lab File: BF136062.D

Acq: 31 Oct 2023 20:41

Instrument :

BNA_F

ClientSampleId :

WC-1

Tgt Ion:142 Resp: 199910

Ion Ratio Lower Upper

142 100

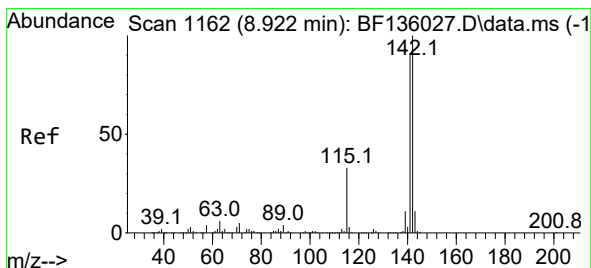
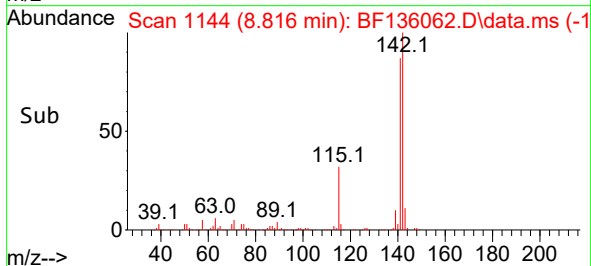
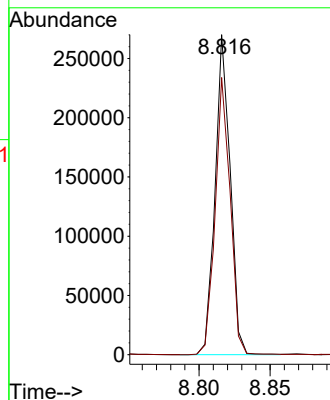
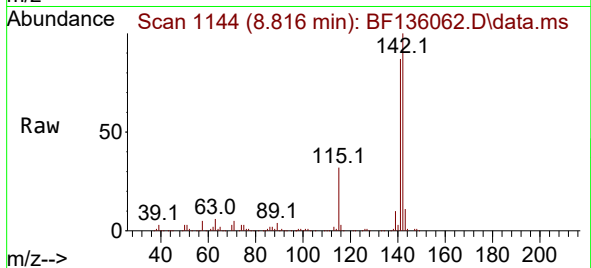
141 86.6 70.4 105.6

Manual Integrations

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Supervised By :mohammad ahmed 11/01/2023



#38

1-Methylnaphthalene

Concen: 11.563 ng

RT: 8.916 min Scan# 1161

Delta R.T. -0.006 min

Lab File: BF136062.D

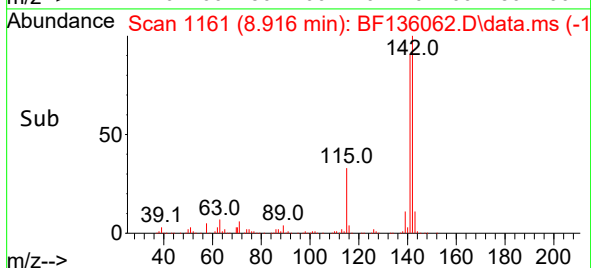
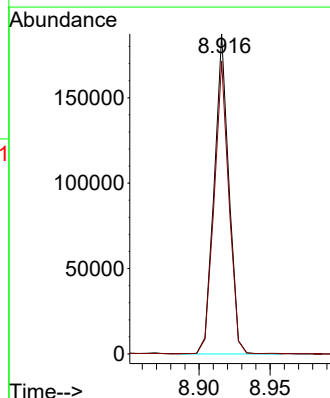
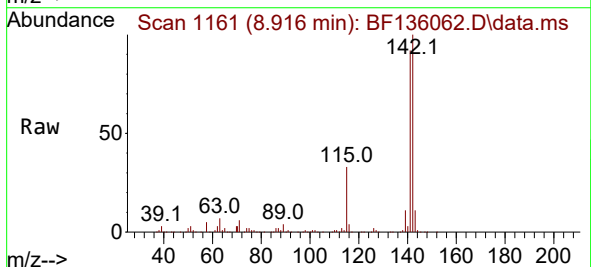
Acq: 31 Oct 2023 20:41

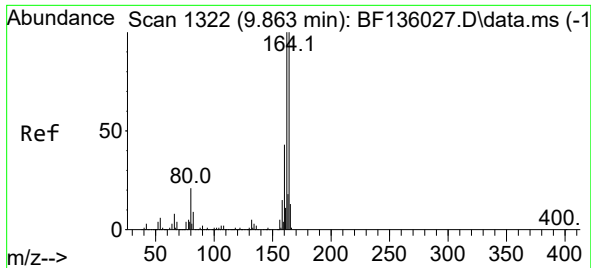
Tgt Ion:142 Resp: 134583

Ion Ratio Lower Upper

142 100

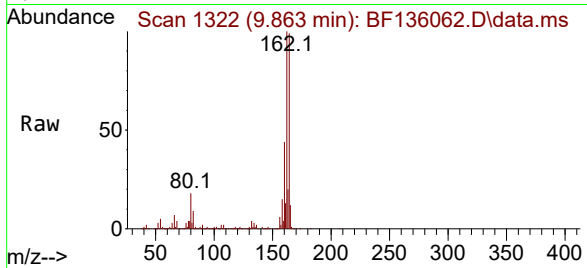
141 91.5 72.6 109.0





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF136062.D
Acq: 31 Oct 2023 20:41

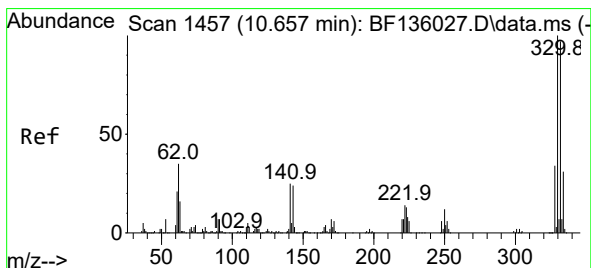
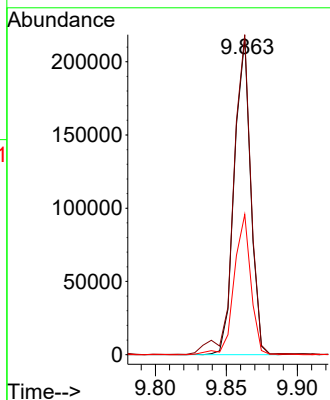
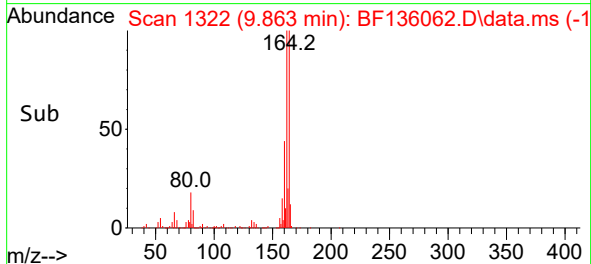
Instrument :
BNA_F
ClientSampleId :
WC-1



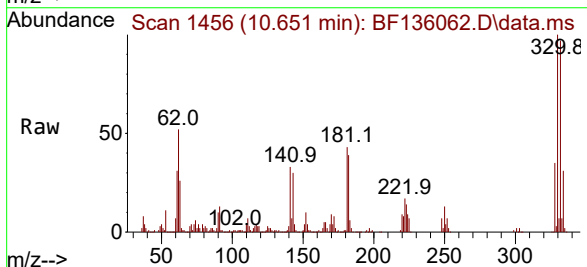
Tgt Ion:164 Resp: 172949
Ion Ratio Lower Upper
164 100
162 101.2 80.1 120.1
160 44.3 34.8 52.2

Manual Integrations
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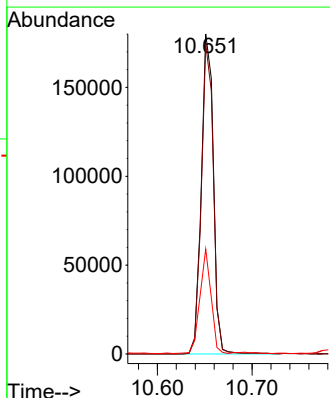
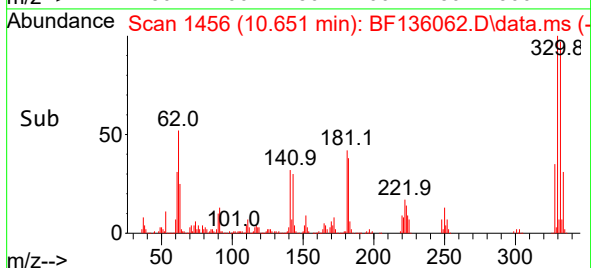
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

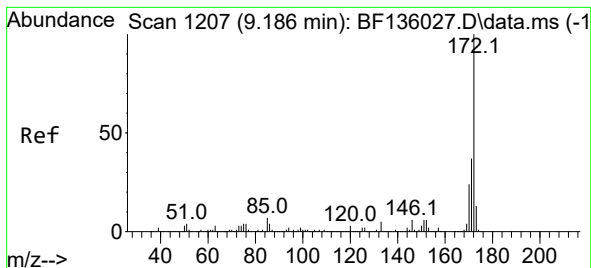


#42
2,4,6-Tribromophenol
Concen: 85.982 ng
RT: 10.651 min Scan# 1456
Delta R.T. -0.006 min
Lab File: BF136062.D
Acq: 31 Oct 2023 20:41



Tgt Ion:330 Resp: 158725
Ion Ratio Lower Upper
330 100
332 96.4 76.9 115.3
141 30.0 23.2 34.8





#45

2-Fluorobiphenyl

Concen: 61.147 ng

RT: 9.181 min Scan# 1206

Delta R.T. -0.006 min

Lab File: BF136062.D

Acq: 31 Oct 2023 20:41

Instrument :

BNA_F

ClientSampleId :

WC-1

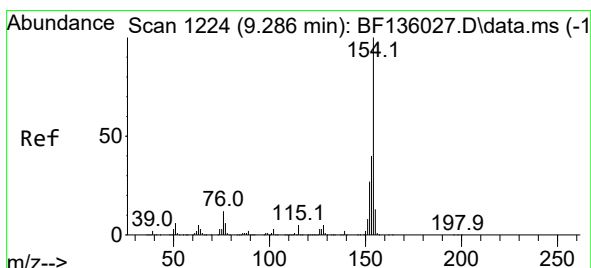
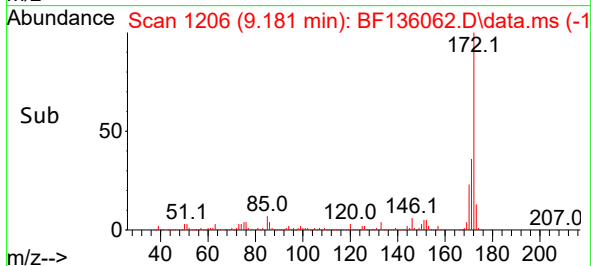
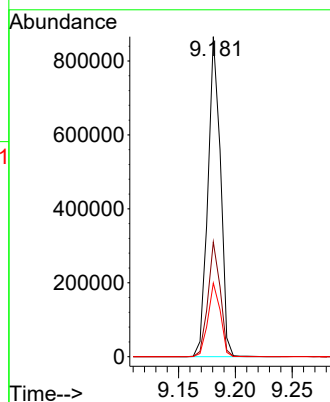
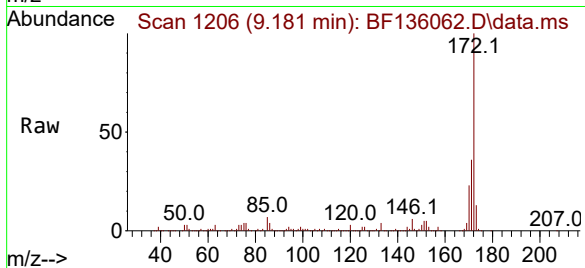
Tgt Ion:172 Resp: 663402
 Ion Ratio Lower Upper
 172 100
 171 35.9 29.4 44.0
 170 23.0 19.3 28.9

Manual Integrations

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Supervised By :mohammad ahmed 11/01/2023



#46

1,1'-Biphenyl

Concen: 3.450 ng

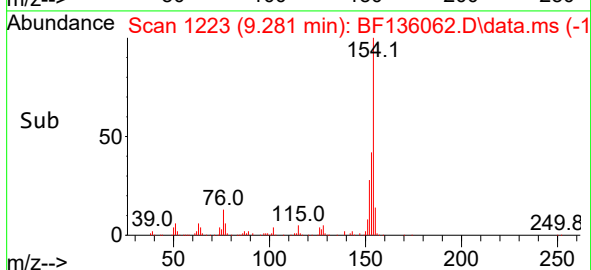
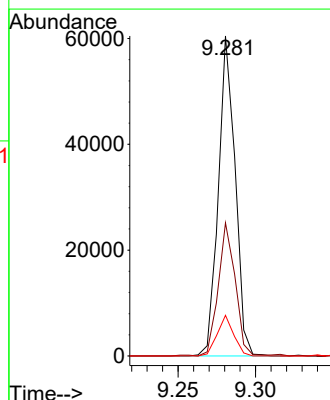
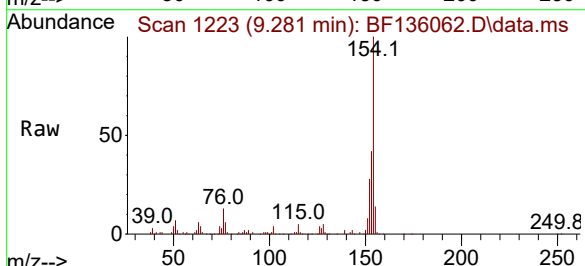
RT: 9.281 min Scan# 1223

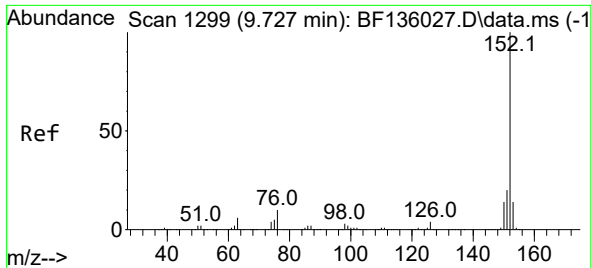
Delta R.T. -0.006 min

Lab File: BF136062.D

Acq: 31 Oct 2023 20:41

Tgt Ion:154 Resp: 45491
 Ion Ratio Lower Upper
 154 100
 153 41.6 20.1 60.1
 76 12.7 0.0 32.5





#49

Acenaphthylene

Concen: 2.856 ng

RT: 9.722 min Scan# 1299

Delta R.T. -0.006 min

Lab File: BF136062.D

Acq: 31 Oct 2023 20:41

Instrument :

BNA_F

ClientSampleId :

WC-1

Tgt Ion:152 Resp: 4330

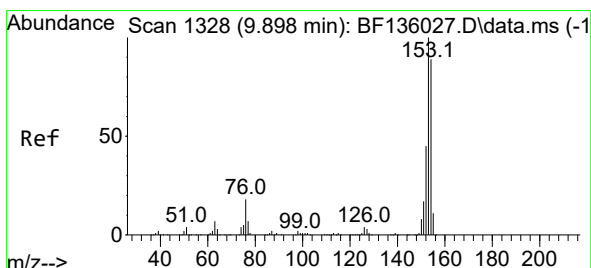
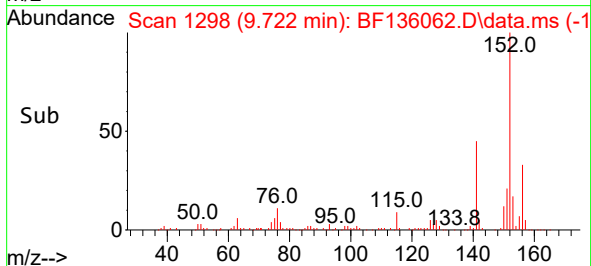
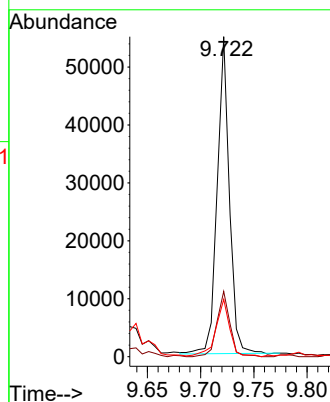
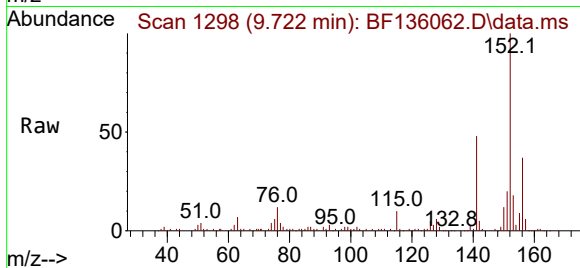
Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.1	24.1
153	17.9	11.4	17.2

Manual Integrations

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Supervised By :mohammad ahmed 11/01/2023



#52

Acenaphthene

Concen: 20.863 ng

RT: 9.892 min Scan# 1327

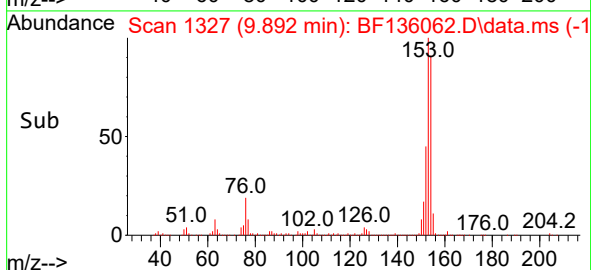
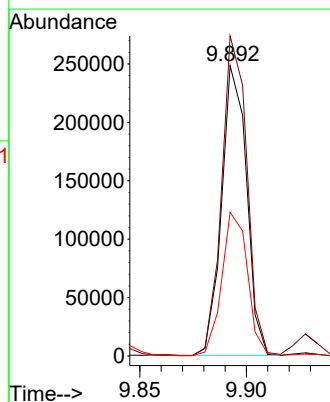
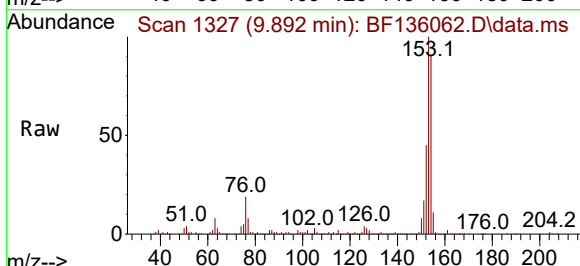
Delta R.T. -0.006 min

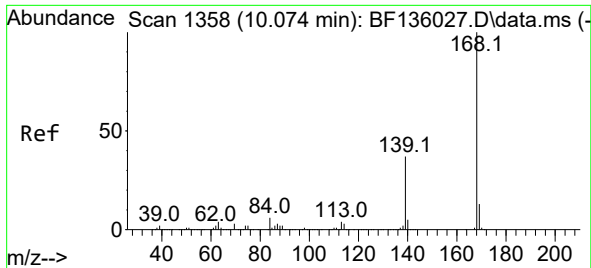
Lab File: BF136062.D

Acq: 31 Oct 2023 20:41

Tgt Ion:154 Resp: 201099

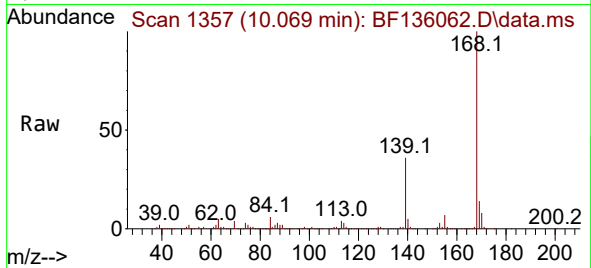
Ion	Ratio	Lower	Upper
154	100		
153	110.3	89.9	134.9
152	49.5	40.2	60.2





#55
Dibenzofuran
Concen: 16.009 ng
RT: 10.069 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136062.D
Acq: 31 Oct 2023 20:41

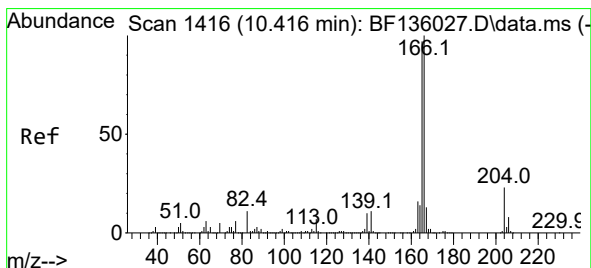
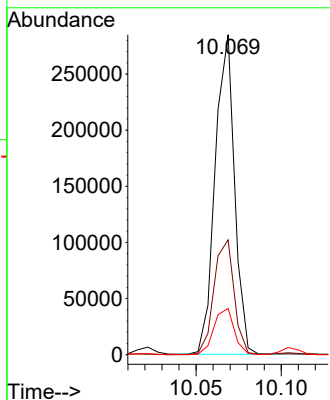
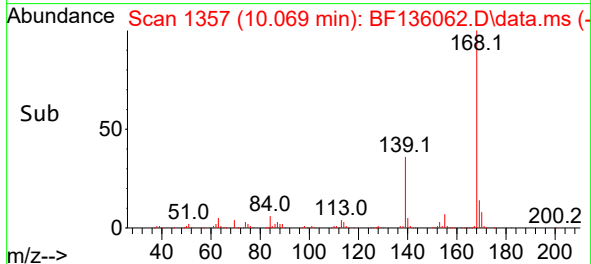
Instrument :
BNA_F
ClientSampleId :
WC-1



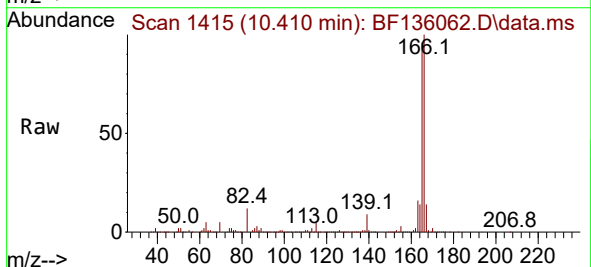
Tgt Ion:168 Resp: 225010
Ion Ratio Lower Upper
168 100
139 35.9 29.4 44.0
169 14.5 10.5 15.7

Manual Integrations
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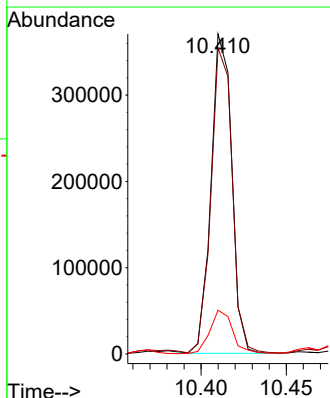
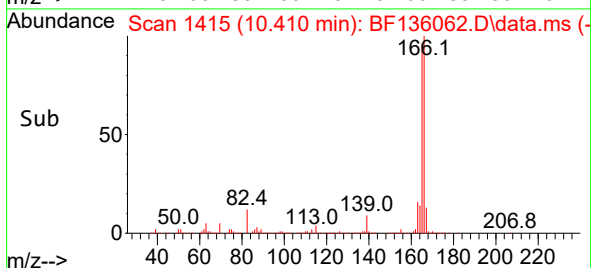
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

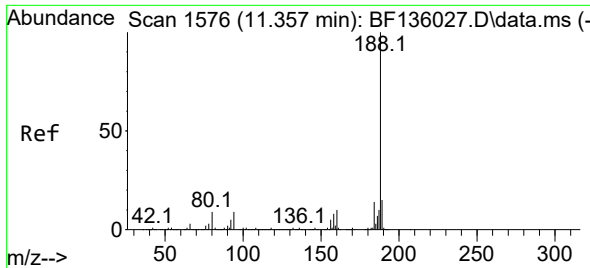


#58
Fluorene
Concen: 29.724 ng
RT: 10.410 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF136062.D
Acq: 31 Oct 2023 20:41



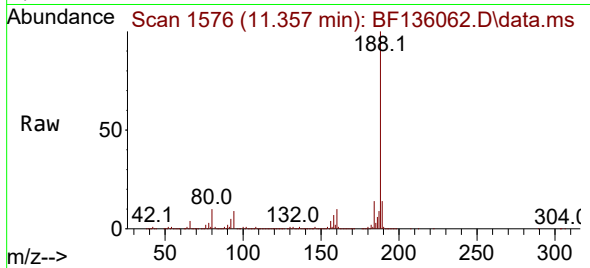
Tgt Ion:166 Resp: 312789
Ion Ratio Lower Upper
166 100
165 95.7 77.7 116.5
167 13.6 10.6 16.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.357 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BF136062.D
Acq: 31 Oct 2023 20:41

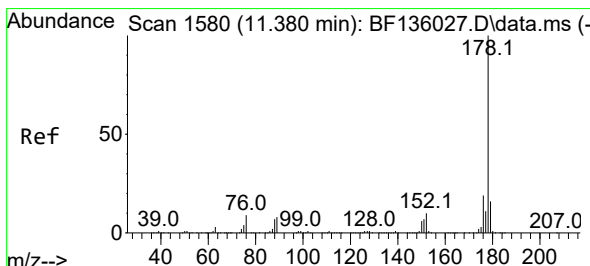
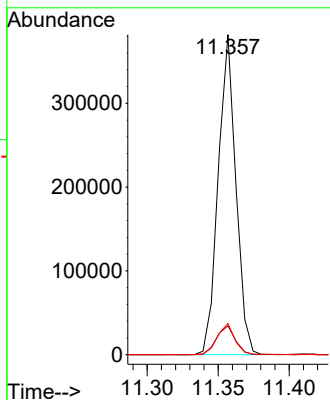
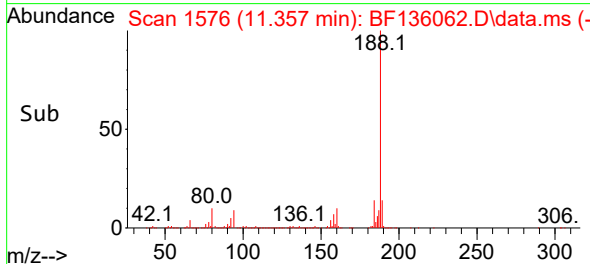
Instrument :
BNA_F
ClientSampleId :
WC-1



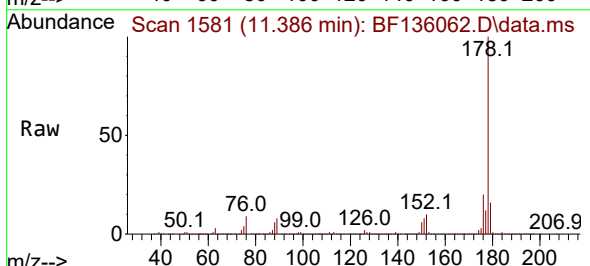
Tgt Ion:188 Resp: 330365
Ion Ratio Lower Upper
188 100
94 9.0 7.2 10.8
80 9.8 7.4 11.0

Manual Integrations
APPROVED

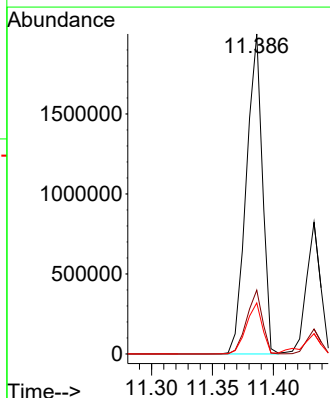
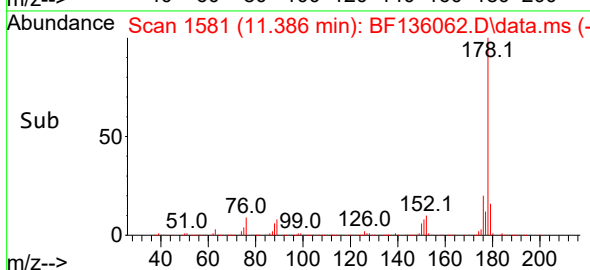
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

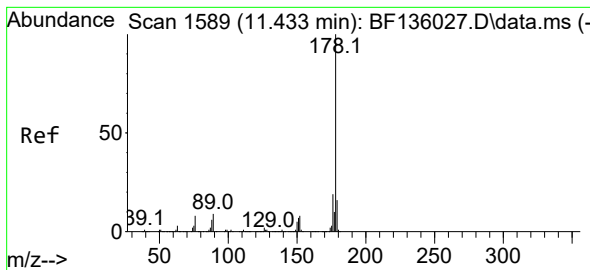


#71
Phenanthrene
Concen: 110.207 ng
RT: 11.386 min Scan# 1581
Delta R.T. 0.006 min
Lab File: BF136062.D
Acq: 31 Oct 2023 20:41



Tgt Ion:178 Resp: 1833187
Ion Ratio Lower Upper
178 100
176 19.9 15.5 23.3
179 16.0 12.9 19.3





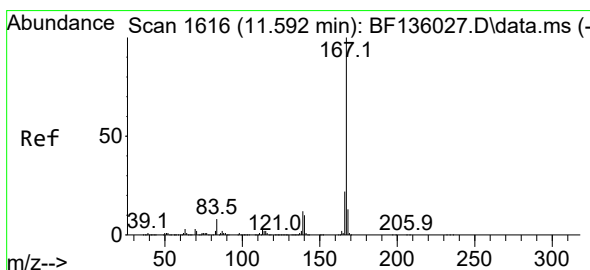
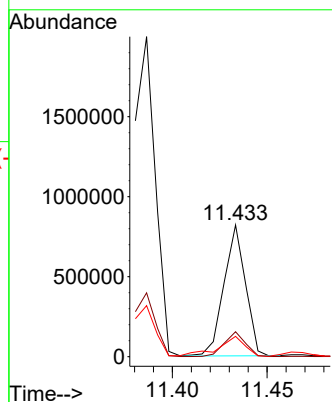
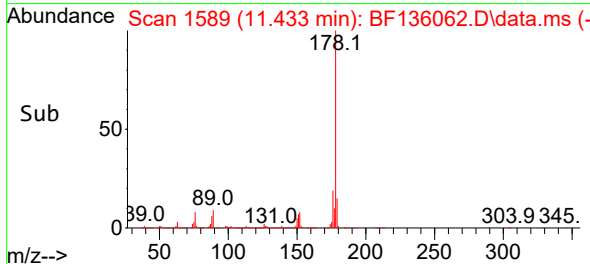
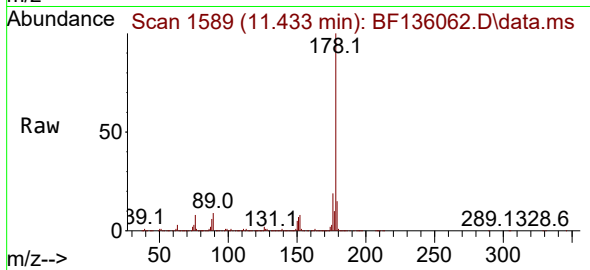
#72
 Anthracene
 Concen: 38.013 ng
 RT: 11.433 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: BF136062.D
 Acq: 31 Oct 2023 20:41

Instrument :
 BNA_F
 ClientSampleId :
 WC-1

Tgt Ion:178 Resp: 647918
 Ion Ratio Lower Upper
 178 100
 176 18.9 15.0 22.4
 179 15.5 12.6 18.8

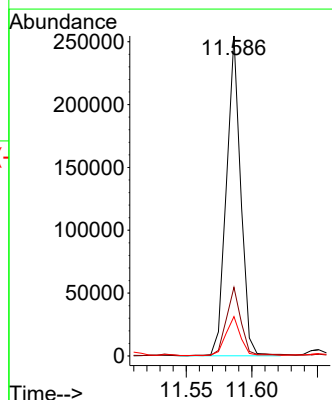
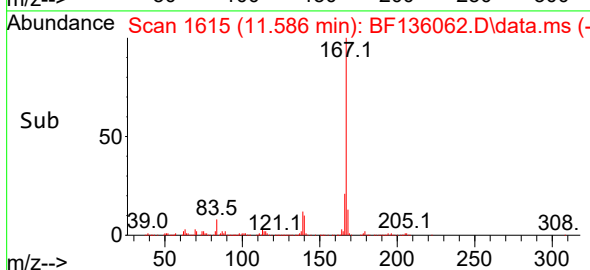
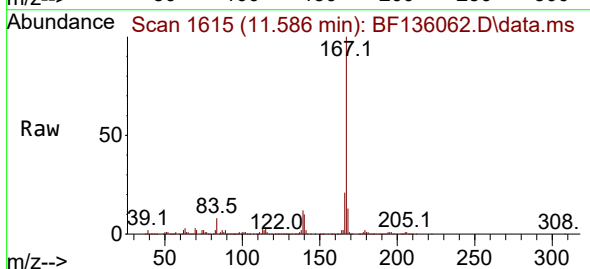
Manual Integrations
 APPROVED

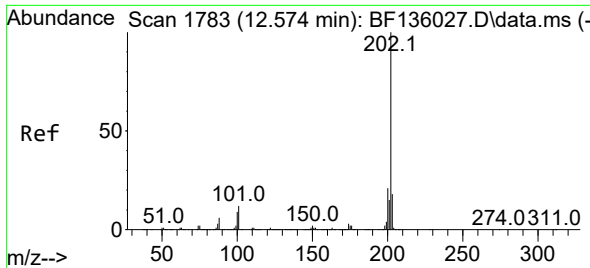
Reviewed By :Yogesh Patel 11/01/2023
 Supervised By :mohammad ahmed 11/01/2023



#73
 Carbazole
 Concen: 12.933 ng
 RT: 11.586 min Scan# 1615
 Delta R.T. -0.006 min
 Lab File: BF136062.D
 Acq: 31 Oct 2023 20:41

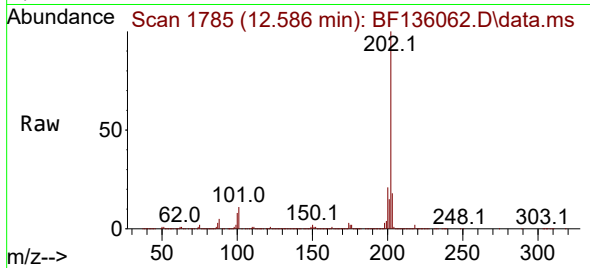
Tgt Ion:167 Resp: 191557
 Ion Ratio Lower Upper
 167 100
 166 21.5 17.2 25.8
 139 12.3 9.9 14.9





#75
Fluoranthene
Concen: 117.915 ng
RT: 12.586 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF136062.D
Acq: 31 Oct 2023 20:41

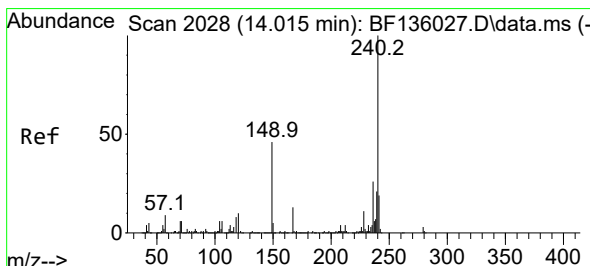
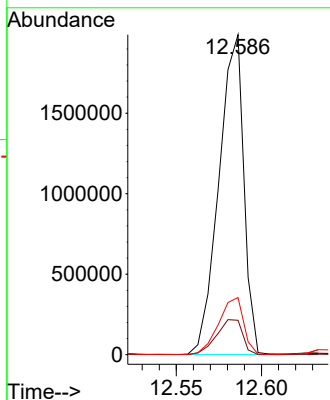
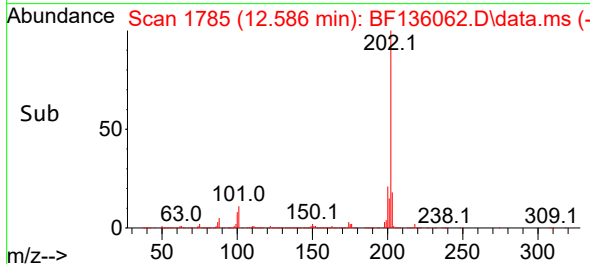
Instrument :
BNA_F
ClientSampleId :
WC-1



Tgt Ion:202 Resp: 2014958
Ion Ratio Lower Upper
202 100
101 10.7 0.0 31.8
203 17.9 0.0 37.9

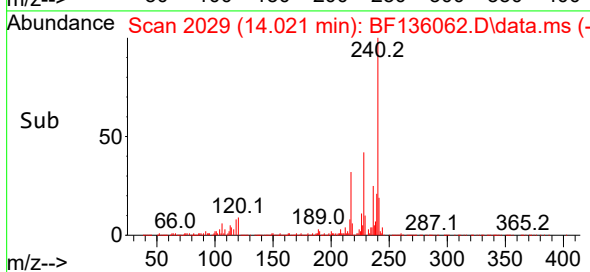
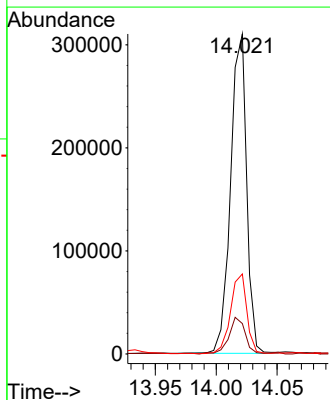
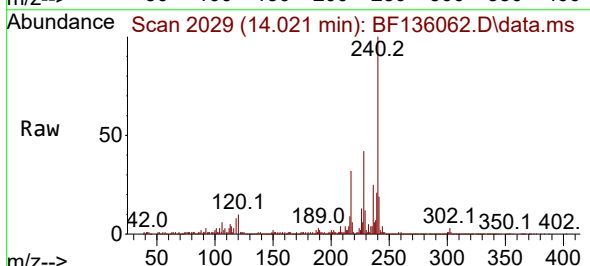
Manual Integrations
APPROVED

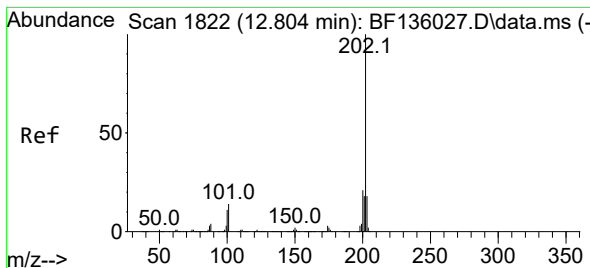
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.021 min Scan# 2029
Delta R.T. 0.006 min
Lab File: BF136062.D
Acq: 31 Oct 2023 20:41

Tgt Ion:240 Resp: 283411
Ion Ratio Lower Upper
240 100
120 9.5 7.6 11.4
236 25.0 20.6 31.0





#78

Pyrene

Concen: 70.742 ng

RT: 12.816 min Scan# 1824

Delta R.T. 0.012 min

Lab File: BF136062.D

Acq: 31 Oct 2023 20:41

Instrument :

BNA_F

ClientSampleId :

WC-1

Tgt Ion:202 Resp: 1767619

Ion Ratio Lower Upper

202 100

200 21.7 17.0 25.4

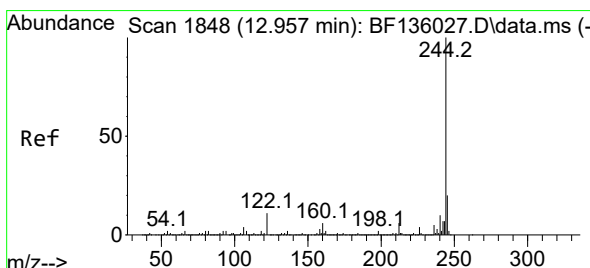
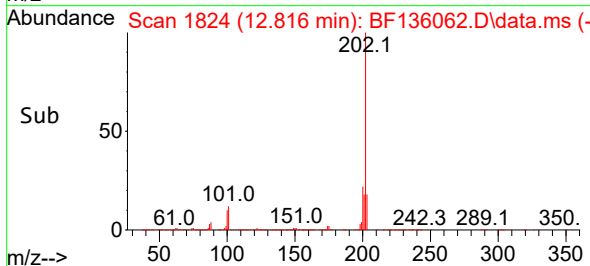
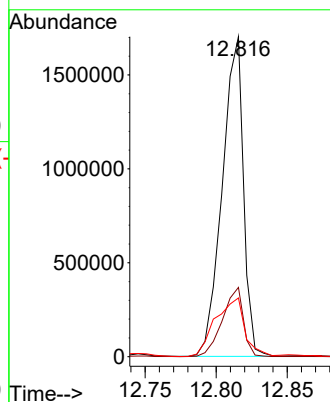
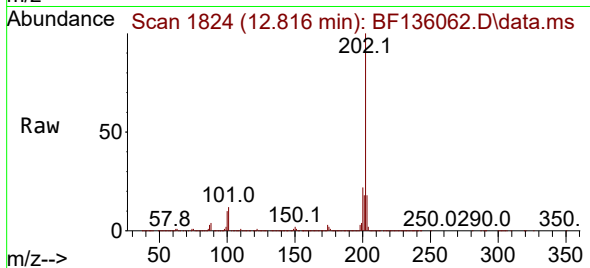
203 18.4 14.4 21.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#79

Terphenyl-d14

Concen: 42.961 ng

RT: 12.957 min Scan# 1848

Delta R.T. 0.000 min

Lab File: BF136062.D

Acq: 31 Oct 2023 20:41

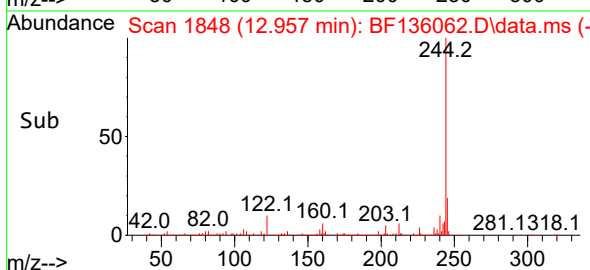
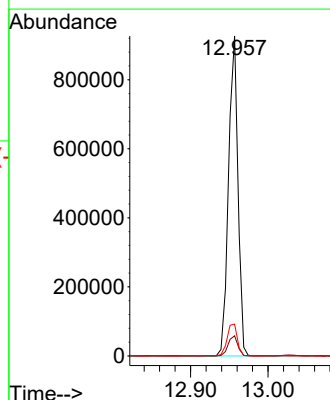
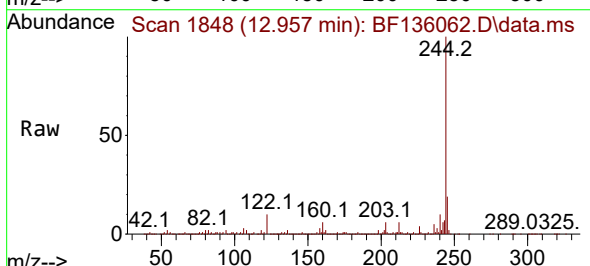
Tgt Ion:244 Resp: 783489

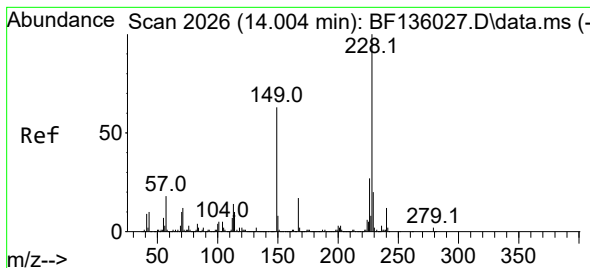
Ion Ratio Lower Upper

244 100

212 6.3 5.1 7.7

122 9.9 8.6 12.8





#81

Benzo(a)anthracene

Concen: 54.523 ng

RT: 14.010 min Scan# 2026

Delta R.T. 0.006 min

Lab File: BF136062.D

Acq: 31 Oct 2023 20:41

Instrument :

BNA_F

ClientSampleId :

WC-1

Tgt Ion:228 Resp: 1022980

Ion Ratio Lower Upper

228 100

226 27.8 21.5 32.3

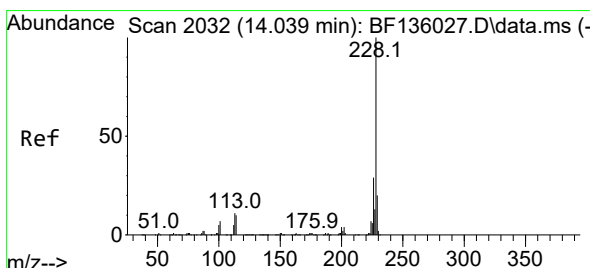
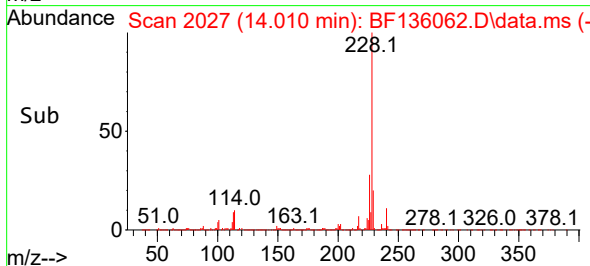
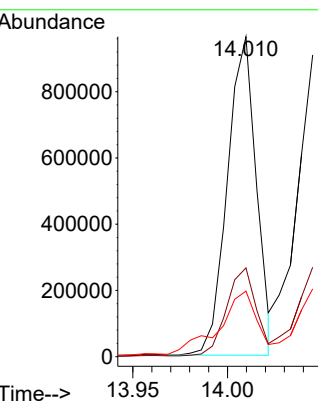
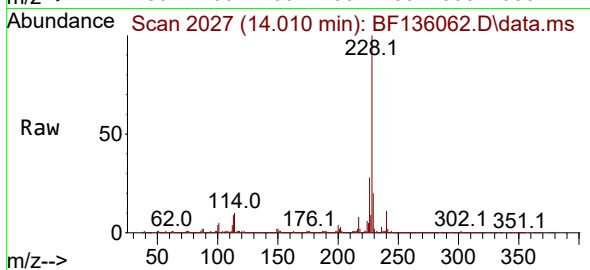
229 20.5 15.8 23.6

Manual Integrations

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Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#83

Chrysene

Concen: 47.328 ng

RT: 14.045 min Scan# 2033

Delta R.T. 0.006 min

Lab File: BF136062.D

Acq: 31 Oct 2023 20:41

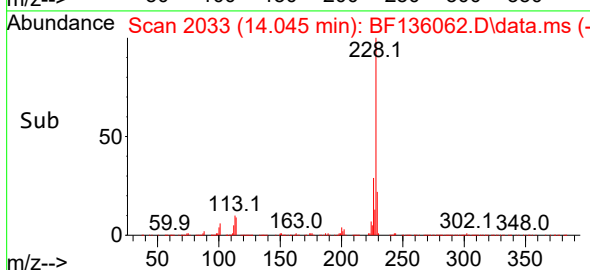
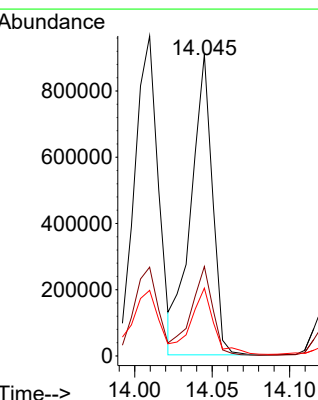
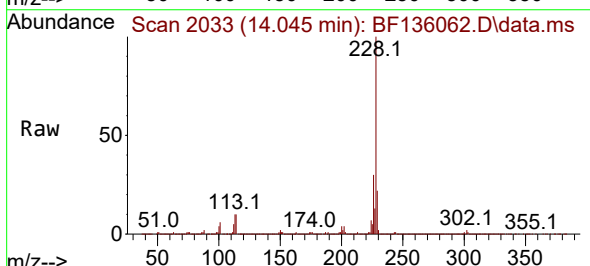
Tgt Ion:228 Resp: 874518

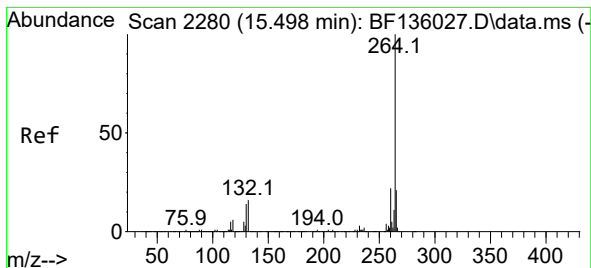
Ion Ratio Lower Upper

228 100

226 29.7 23.5 35.3

229 22.5 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.510 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF136062.D

Acq: 31 Oct 2023 20:41

Instrument :

BNA_F

ClientSampleId :

WC-1

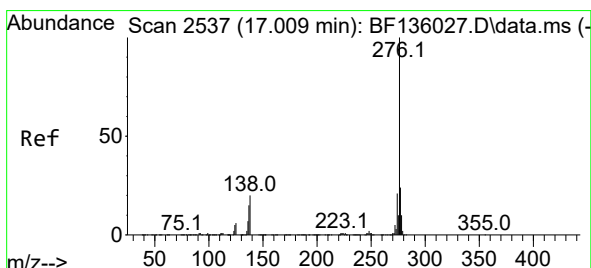
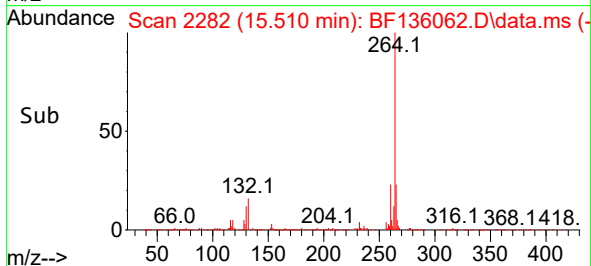
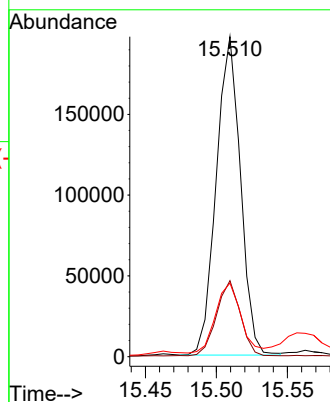
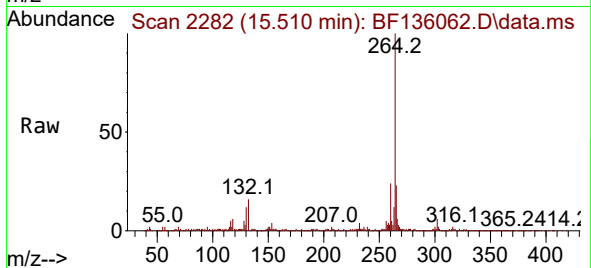
Tgt Ion:264 Resp: 233520
 Ion Ratio Lower Upper
 264 100
 260 23.8 17.9 26.9
 265 23.0 16.8 25.2

Manual Integrations

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Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 18.550 ng

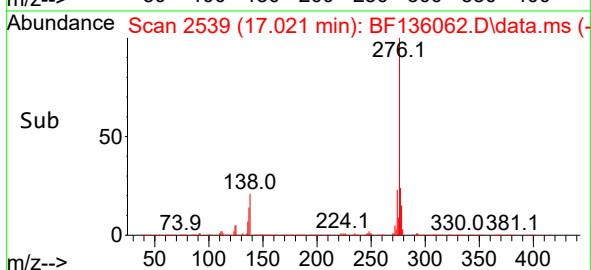
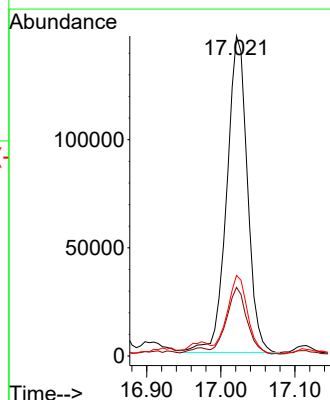
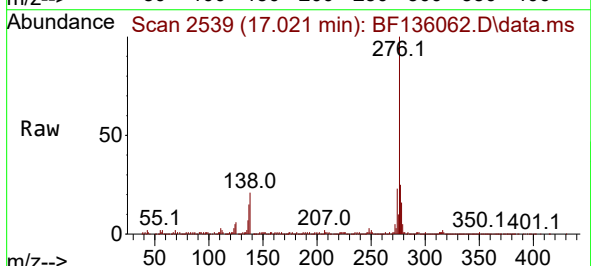
RT: 17.021 min Scan# 2539

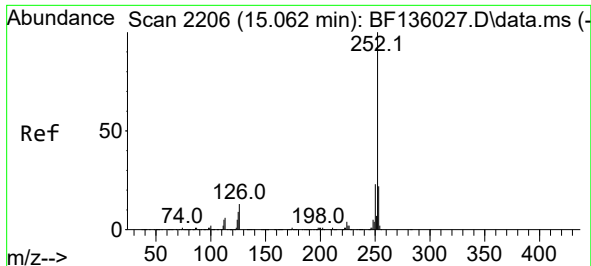
Delta R.T. 0.012 min

Lab File: BF136062.D

Acq: 31 Oct 2023 20:41

Tgt Ion:276 Resp: 283120
 Ion Ratio Lower Upper
 276 100
 138 20.8 20.4 30.6
 277 24.7 20.2 30.2





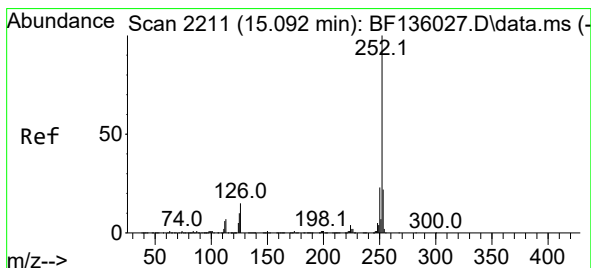
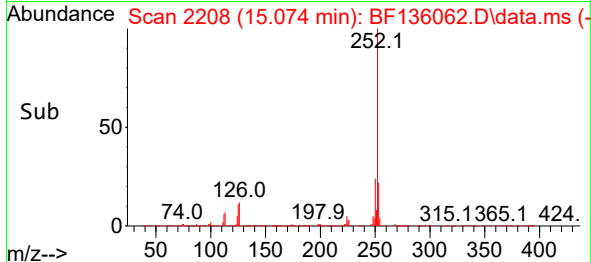
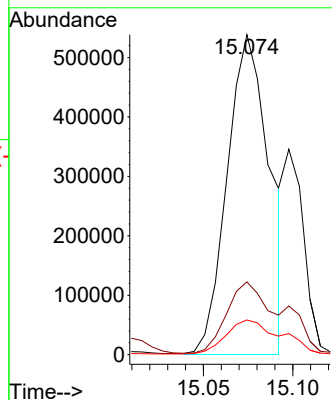
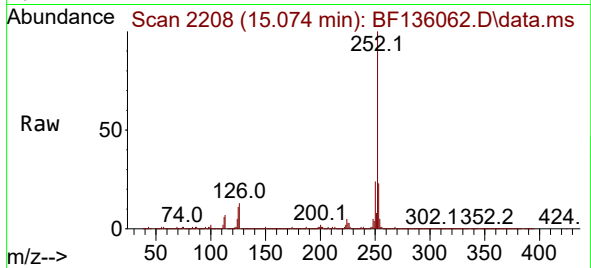
#88
Benzo(b)fluoranthene
Concen: 63.732 ng m
RT: 15.074 min Scan# 2112
Delta R.T. 0.012 min
Lab File: BF136062.D
Acq: 31 Oct 2023 20:41

Instrument :
BNA_F
ClientSampleId :
WC-1

Tgt Ion:252 Resp: 88065
Ion Ratio Lower Upper
252 100
253 22.8 17.7 26.5
125 10.9 7.5 11.3

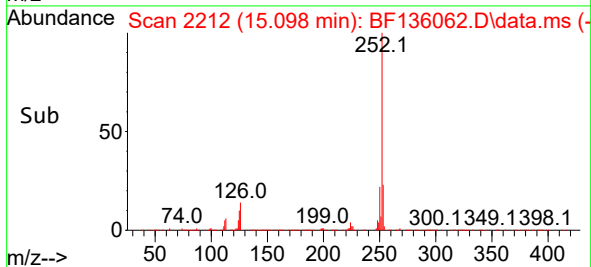
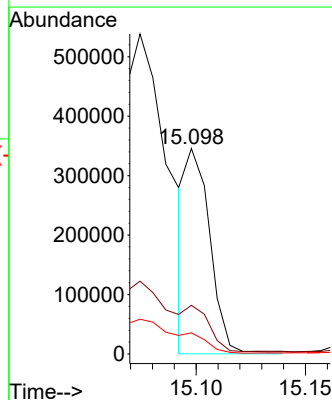
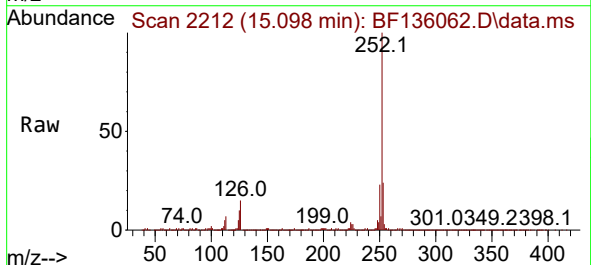
Manual Integrations
APPROVED

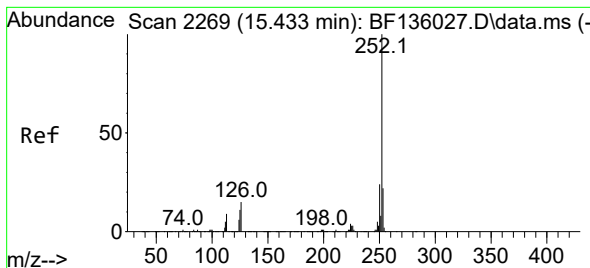
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#89
Benzo(k)fluoranthene
Concen: 19.365 ng m
RT: 15.098 min Scan# 2212
Delta R.T. 0.006 min
Lab File: BF136062.D
Acq: 31 Oct 2023 20:41

Tgt Ion:252 Resp: 264769
Ion Ratio Lower Upper
252 100
253 23.7 17.4 26.0
125 10.3 8.0 12.0





#90

Benzo(a)pyrene

Concen: 44.175 ng

RT: 15.445 min Scan# 2269

Delta R.T. 0.012 min

Lab File: BF136062.D

Acq: 31 Oct 2023 20:41

Instrument :

BNA_F

ClientSampleId :

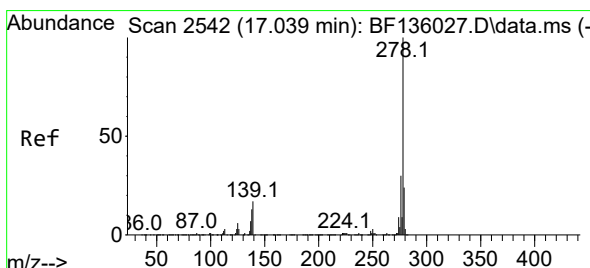
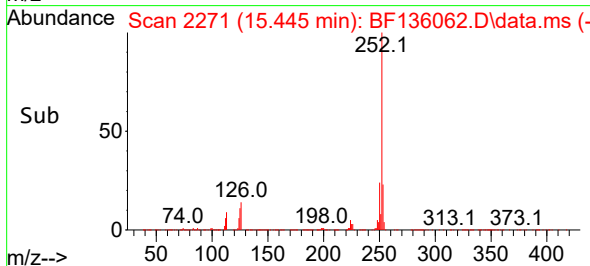
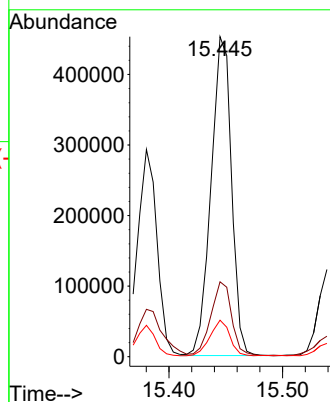
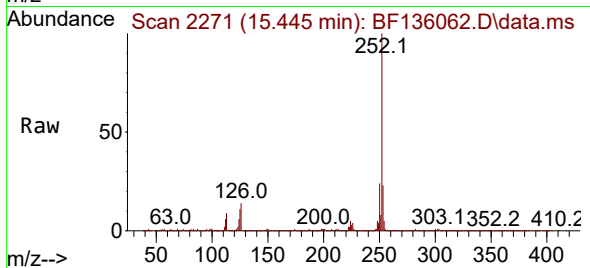
WC-1

Tgt Ion:252 Resp: 56717
 Ion Ratio Lower Upper
 252 100
 253 23.4 17.3 25.9
 125 11.4 9.0 13.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023
 Supervised By :mohammad ahmed 11/01/2023



#91

Dibenzo(a,h)anthracene

Concen: 6.332 ng m

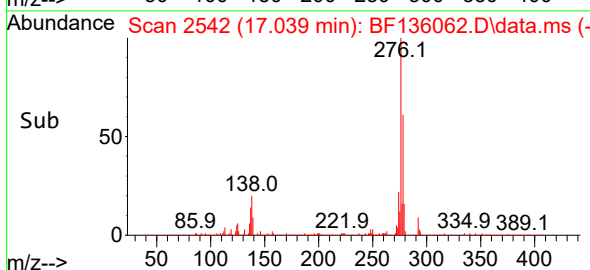
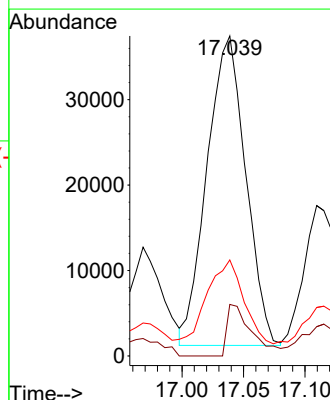
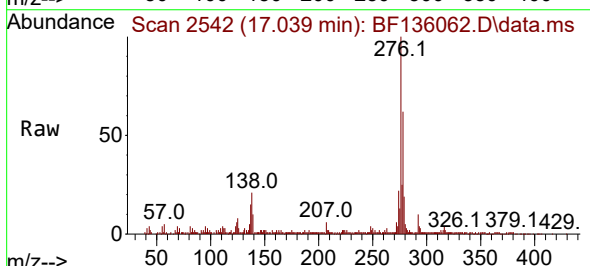
RT: 17.039 min Scan# 2542

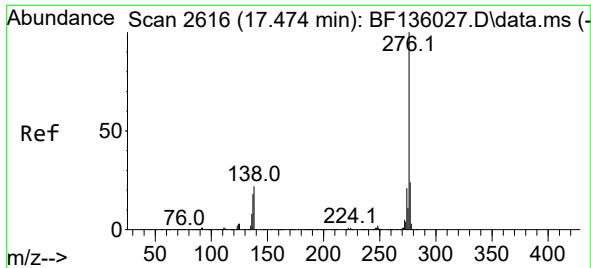
Delta R.T. 0.000 min

Lab File: BF136062.D

Acq: 31 Oct 2023 20:41

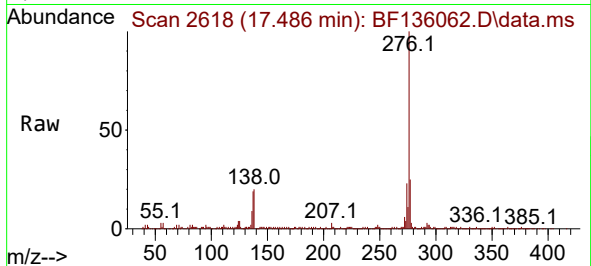
Tgt Ion:278 Resp: 79166
 Ion Ratio Lower Upper
 278 100
 139 16.1 13.7 20.5
 279 30.0 19.0 28.6#





#92
 Benzo(g,h,i)perylene
 Concen: 19.016 ng
 RT: 17.486 min Scan# 20
 Delta R.T. 0.012 min
 Lab File: BF136062.D
 Acq: 31 Oct 2023 20:41

Instrument :
 BNA_F
 ClientSampleId :
 WC-1



Tgt Ion:	276	Resp:	244192
Ion Ratio	Lower	Upper	
276	100		
277	25.1	19.0	28.4
138	20.5	17.4	26.2

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/01/2023
 Supervised By :mohammad ahmed 11/01/2023

