

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120423\
 Data File : BF136383.D
 Acq On : 04 Dec 2023 15:51
 Operator : CG\JU
 Sample : 05504-02
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 281

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 12/05/2023
 Supervised By :mohammad ahmed 12/05/2023

Quant Time: Dec 04 16:30:19 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 04 13:30:53 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	105690	20.000	ng	0.00
21) Naphthalene-d8	8.075	136	423549	20.000	ng	0.00
39) Acenaphthene-d10	9.833	164	206283	20.000	ng	0.00
64) Phenanthrene-d10	11.327	188	349005	20.000	ng	0.00
76) Chrysene-d12	13.980	240	244869	20.000	ng	0.00
86) Perylene-d12	15.462	264	236212	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.440	112	653212	86.023	ng	0.00
7) Phenol-d6	6.439	99	803550	84.632	ng	0.00
23) Nitrobenzene-d5	7.363	82	492980	61.506	ng	0.00
42) 2,4,6-Tribromophenol	10.627	330	209953	83.249	ng	0.00
45) 2-Fluorobiphenyl	9.157	172	883438	54.702	ng	0.00
79) Terphenyl-d14	12.921	244	768092	36.182	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.098	128	163493	6.868	ng	# 95
37) 2-Methylnaphthalene	8.792	142	122071	8.174	ng	90
38) 1-Methylnaphthalene	8.886	142	66637	4.574	ng	89
49) Acenaphthylene	9.692	152	62698	3.110	ng	# 93
52) Acenaphthene	9.869	154	119271	9.362	ng	90
55) Dibenzofuran	10.039	168	170887	9.014	ng	97
58) Fluorene	10.386	166	213896	14.384	ng	93
71) Phenanthrene	11.357	178	1293744	65.955	ng	99
72) Anthracene	11.404	178	258434	13.138	ng	97
73) Carbazole	11.557	167	86903	5.194	ng	99
75) Fluoranthene	12.551	202	1467545	73.697	ng	95
78) Pyrene	12.780	202	1180872	44.034	ng	98
81) Benzo(a)anthracene	13.968	228	443394	24.378	ng	95
83) Chrysene	14.010	228	479811	27.322	ng	96
87) Indeno(1,2,3-cd)pyrene	16.962	276	122610	9.236	ng	98
88) Benzo(b)fluoranthene	15.027	252	516244m	31.151	ng	
89) Benzo(k)fluoranthene	15.057	252	121351m	7.710	ng	
90) Benzo(a)pyrene	15.398	252	237961	17.565	ng	95
91) Dibenzo(a,h)anthracene	16.980	278	33187	4.923	ng	# 90
92) Benzo(g,h,i)perylene	17.421	276	107599	9.168	ng	99

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

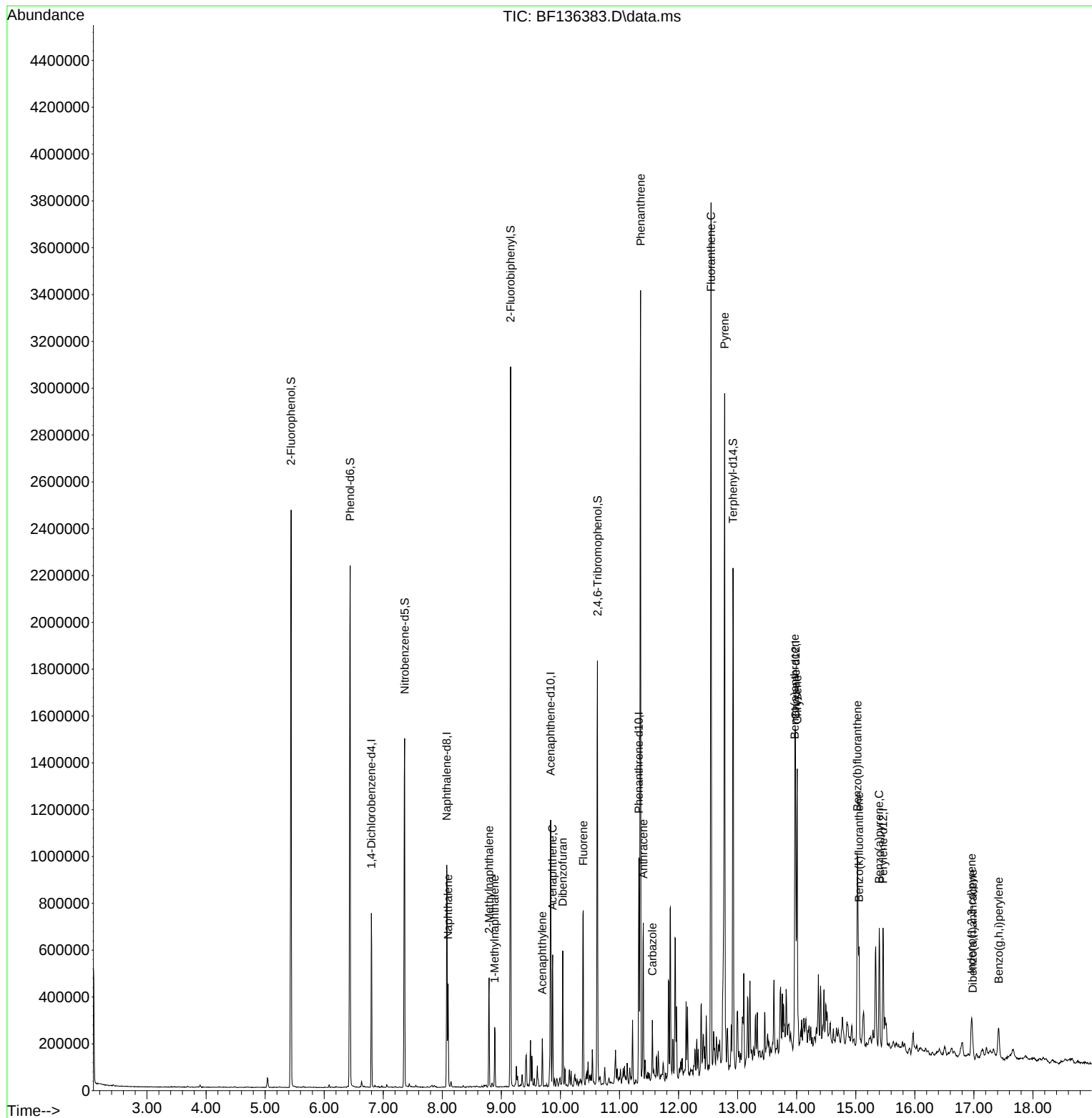
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120423\
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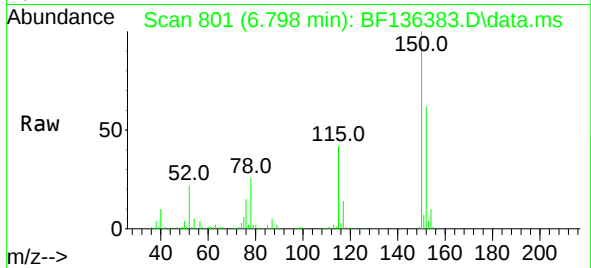
Reviewed By :Yogesh Patel 12/05/2023
Supervised By :mohammad ahmed 12/05/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 803
Delta R.T. -0.006 min
Lab File: BF136383.D
Acq: 04 Dec 2023 15:51

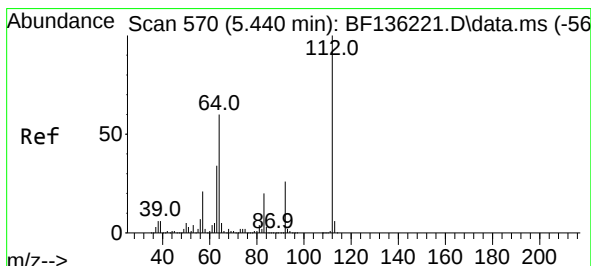
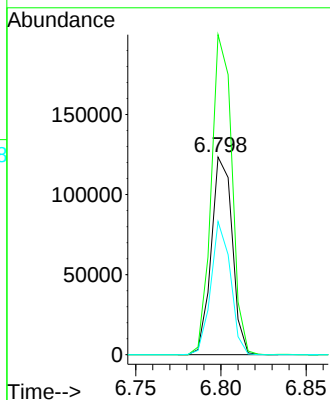
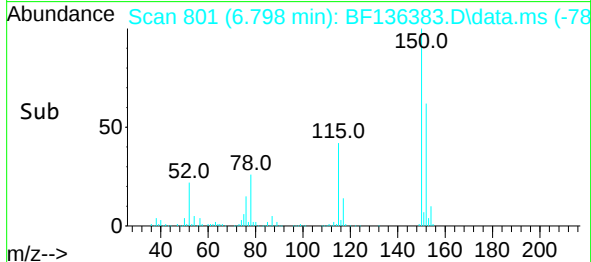
Instrument :
BNA_F
ClientSampleId :
281



Tgt Ion:152 Resp: 105690
Ion Ratio Lower Upper
152 100
150 161.9 137.8 206.8
115 67.3 52.7 79.1

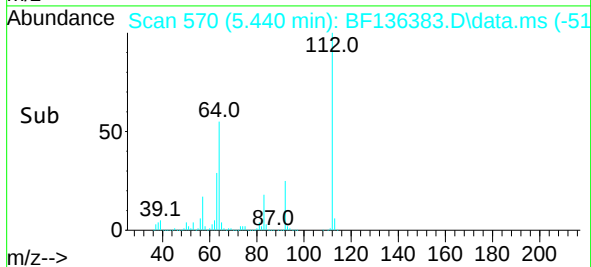
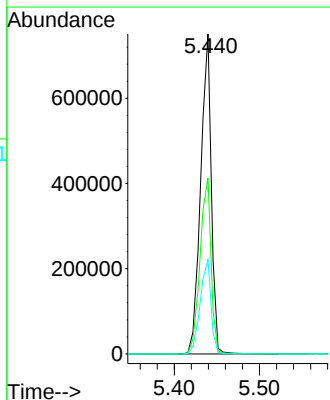
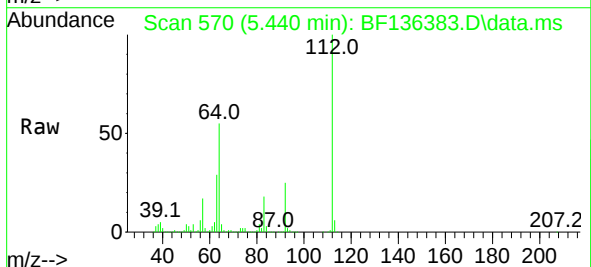
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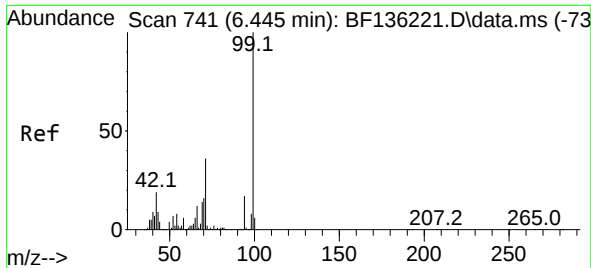
Reviewed By :Yogesh Patel 12/05/2023
Supervised By :mohammad ahmed 12/05/2023



#5
2-Fluorophenol
Concen: 86.023 ng
RT: 5.440 min Scan# 570
Delta R.T. 0.000 min
Lab File: BF136383.D
Acq: 04 Dec 2023 15:51

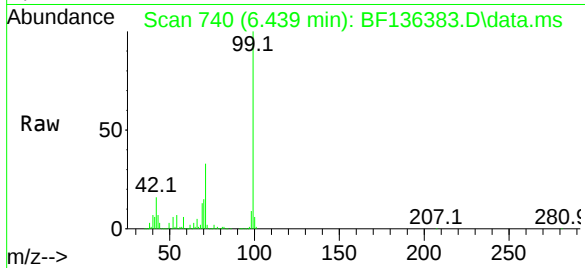
Tgt Ion:112 Resp: 653212
Ion Ratio Lower Upper
112 100
64 55.0 48.2 72.4
63 29.4 27.0 40.6





#7
Phenol-d6
Concen: 84.632 ng
RT: 6.439 min Scan# 741
Delta R.T. -0.006 min
Lab File: BF136383.D
Acq: 04 Dec 2023 15:51

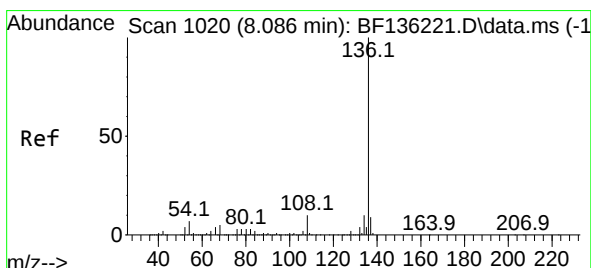
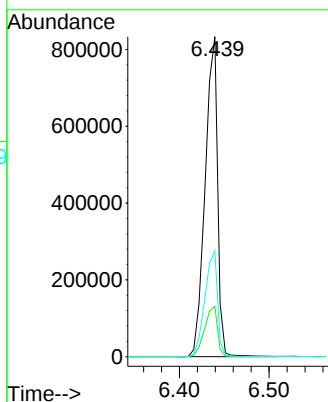
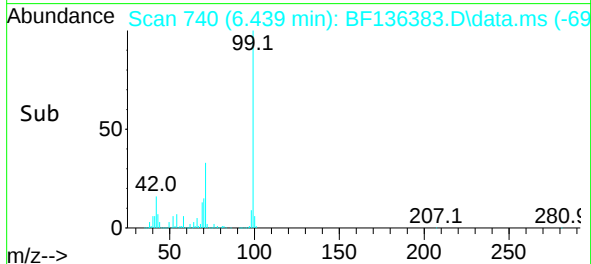
Instrument :
BNA_F
ClientSampleId :
281



Tgt Ion: 99 Resp: 803550
Ion Ratio Lower Upper
99 100
42 15.7 15.0 22.6
71 33.0 28.9 43.3

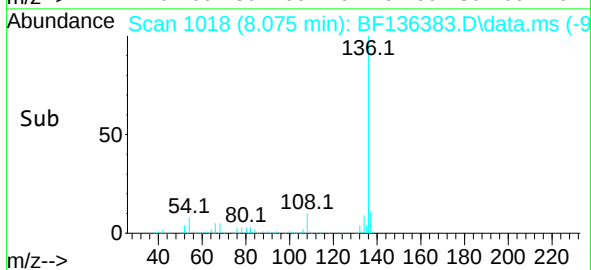
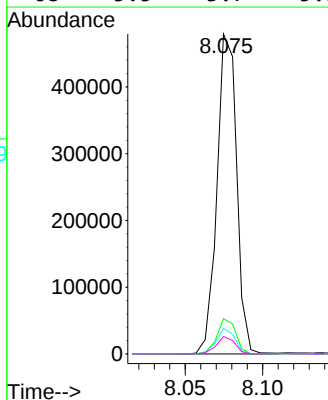
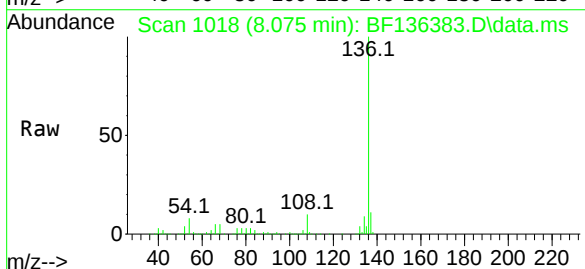
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Reviewed By :Yogesh Patel 12/05/2023
Supervised By :mohammad ahmed 12/05/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF136383.D
Acq: 04 Dec 2023 15:51

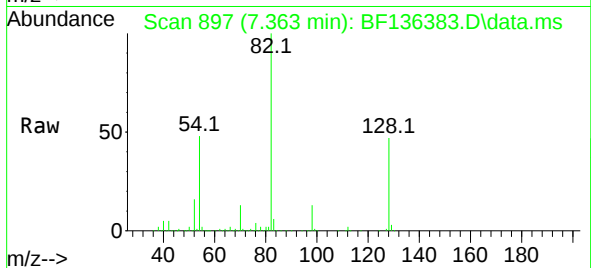
Tgt Ion:136 Resp: 423549
Ion Ratio Lower Upper
136 100
137 11.1 7.4 11.2
54 8.0 5.5 8.3
68 5.5 3.7 5.5





#23
Nitrobenzene-d5
Concen: 61.506 ng
RT: 7.363 min Scan# 899
Delta R.T. -0.006 min
Lab File: BF136383.D
Acq: 04 Dec 2023 15:51

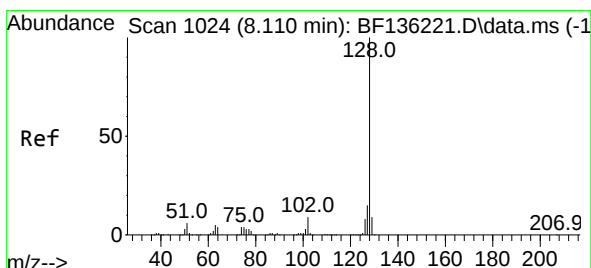
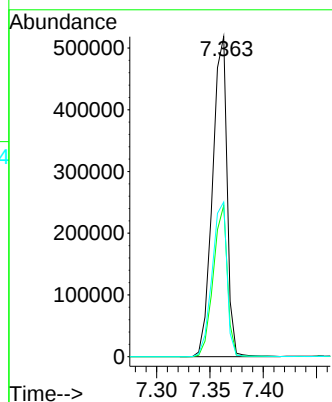
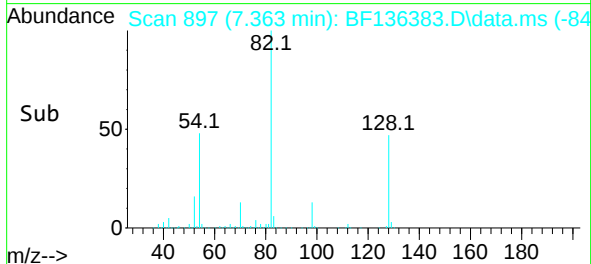
Instrument :
BNA_F
ClientSampleId :
281



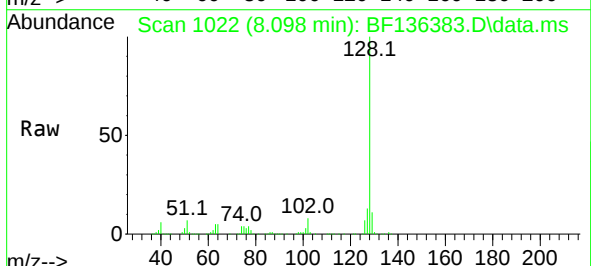
Tgt Ion: 82 Resp: 492980
Ion Ratio Lower Upper
82 100
128 47.2 33.4 50.2
54 48.4 41.7 62.5

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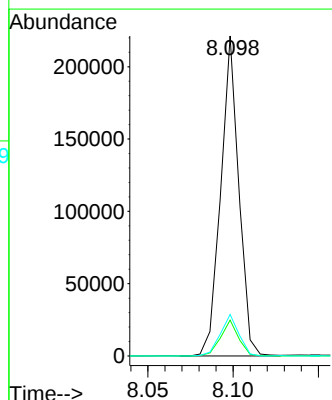
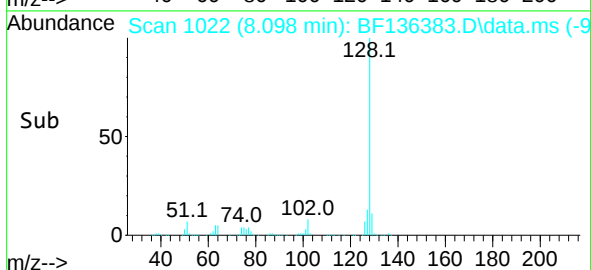
Reviewed By :Yogesh Patel 12/05/2023
Supervised By :mohammad ahmed 12/05/2023

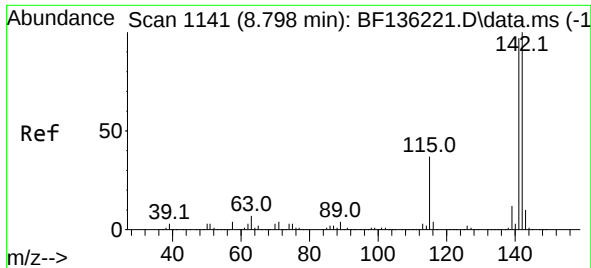


#31
Naphthalene
Concen: 6.868 ng
RT: 8.098 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF136383.D
Acq: 04 Dec 2023 15:51



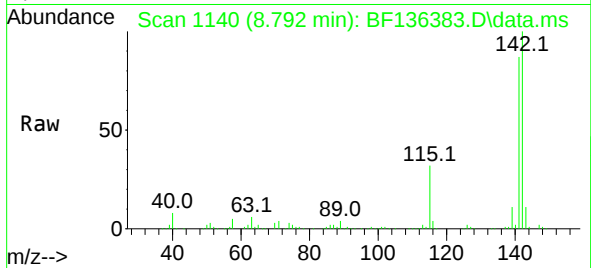
Tgt Ion:128 Resp: 163493
Ion Ratio Lower Upper
128 100
129 11.2 7.3 10.9#
127 13.0 11.8 17.6





#37
2-Methylnaphthalene
Concen: 8.174 ng
RT: 8.792 min Scan# 1141
Delta R.T. 0.000 min
Lab File: BF136383.D
Acq: 04 Dec 2023 15:51

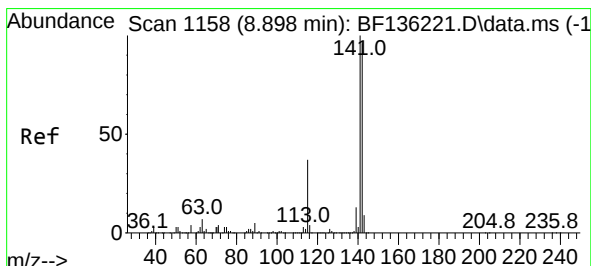
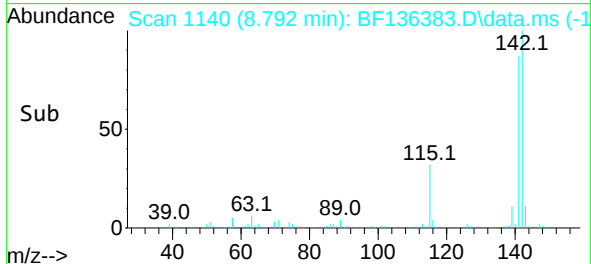
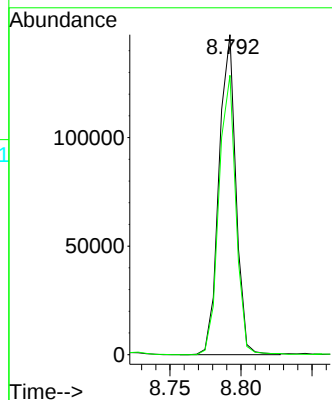
Instrument :
BNA_F
ClientSampleId :
281



Tgt Ion:142 Resp: 12207
Ion Ratio Lower Upper
142 100
141 87.3 77.8 116.8

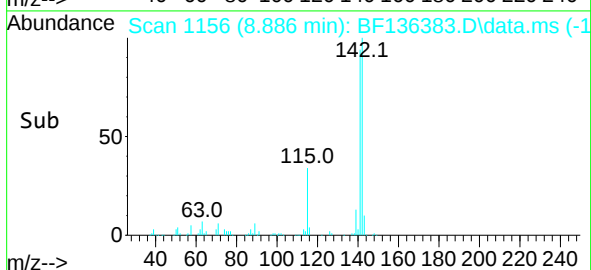
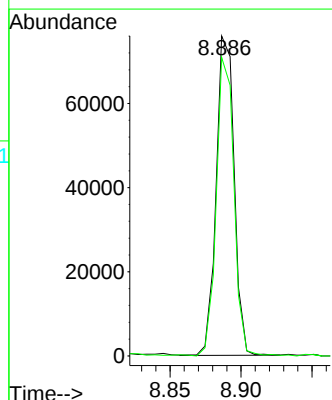
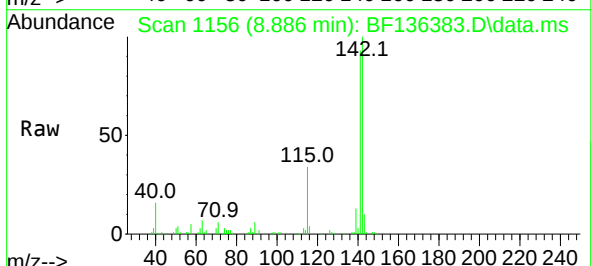
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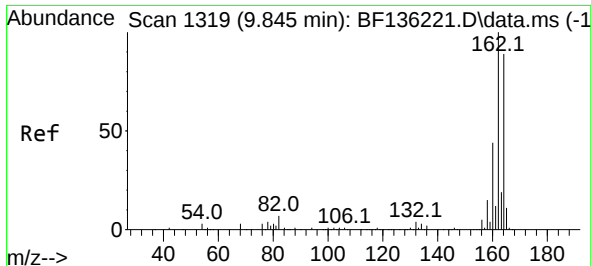
Reviewed By :Yogesh Patel 12/05/2023
Supervised By :mohammad ahmed 12/05/2023



#38
1-Methylnaphthalene
Concen: 4.574 ng
RT: 8.886 min Scan# 1156
Delta R.T. -0.006 min
Lab File: BF136383.D
Acq: 04 Dec 2023 15:51

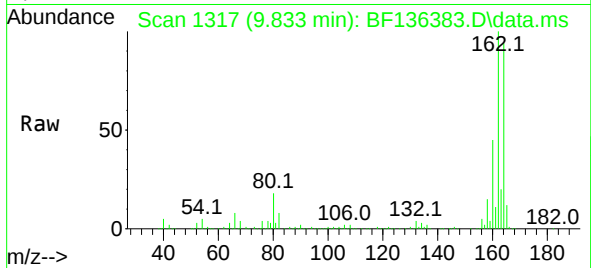
Tgt Ion:142 Resp: 66637
Ion Ratio Lower Upper
142 100
141 93.3 83.8 125.6





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.833 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136383.D
Acq: 04 Dec 2023 15:51

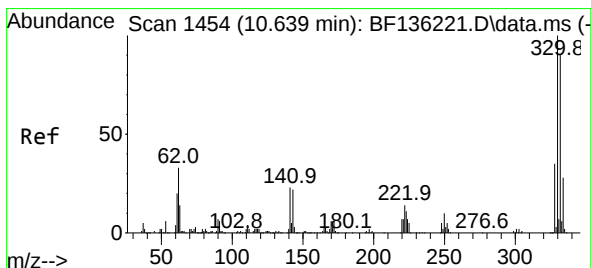
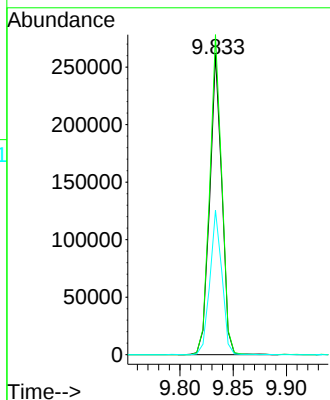
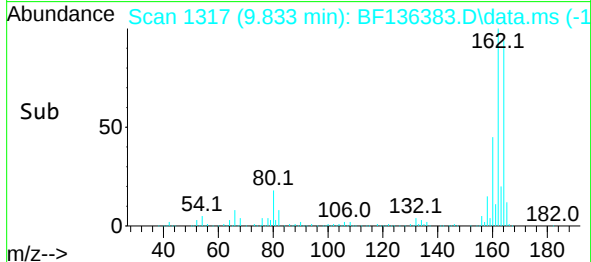
Instrument :
BNA_F
ClientSampleId :
281



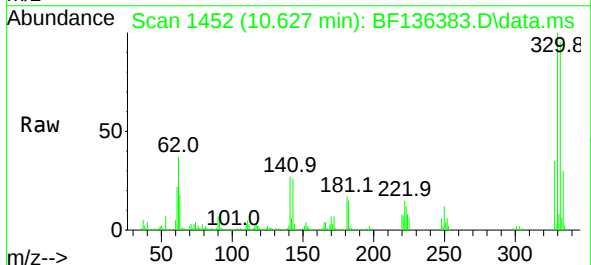
Tgt Ion:164 Resp: 20628
Ion Ratio Lower Upper
164 100
162 106.7 89.5 134.3
160 48.2 39.6 59.4

Manual Integrations
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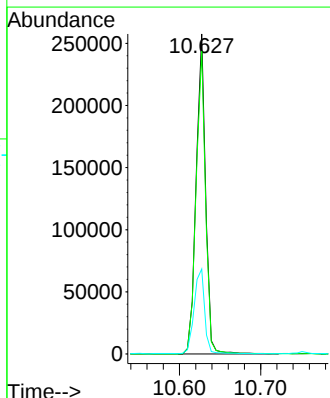
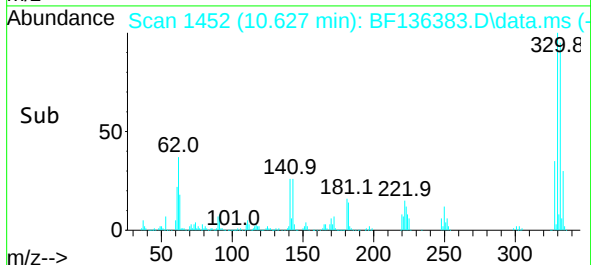
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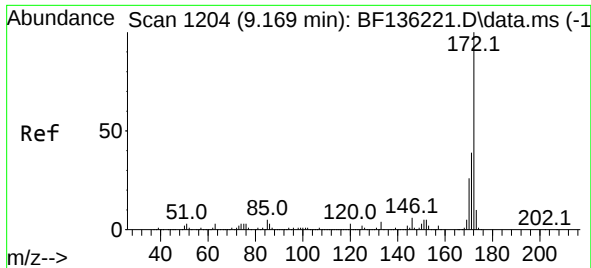


#42
2,4,6-Tribromophenol
Concen: 83.249 ng
RT: 10.627 min Scan# 1452
Delta R.T. -0.006 min
Lab File: BF136383.D
Acq: 04 Dec 2023 15:51



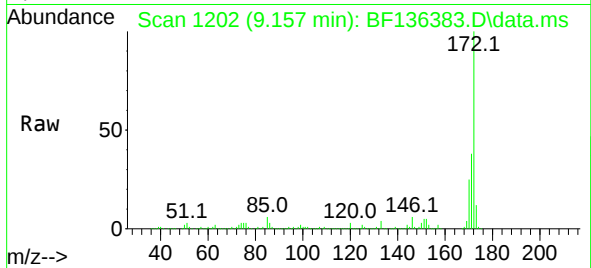
Tgt Ion:330 Resp: 209953
Ion Ratio Lower Upper
330 100
332 95.1 73.0 109.6
141 29.6 24.2 36.2





#45
2-Fluorobiphenyl
Concen: 54.702 ng
RT: 9.157 min Scan# 1202
Delta R.T. -0.006 min
Lab File: BF136383.D
Acq: 04 Dec 2023 15:51

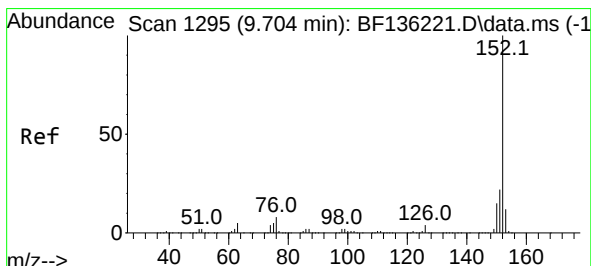
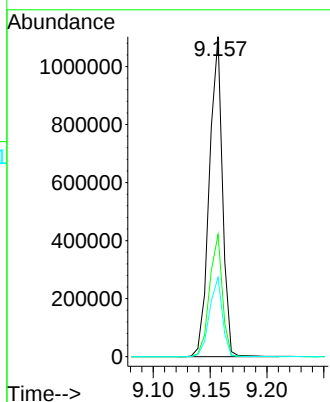
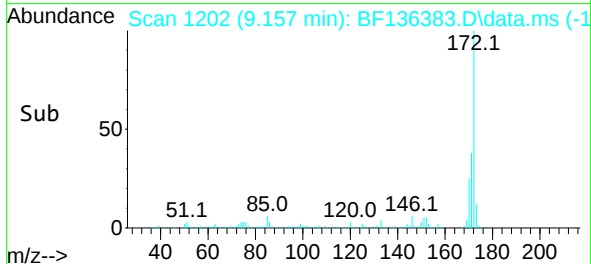
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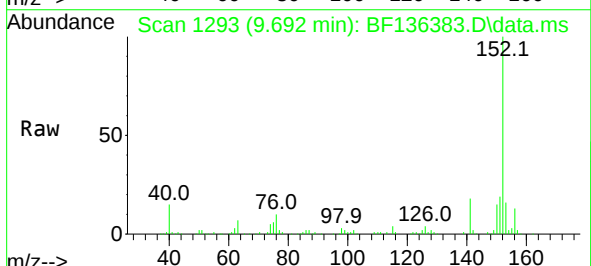
Tgt Ion:172 Resp: 883438
Ion Ratio Lower Upper
172 100
171 38.2 31.5 47.3
170 24.8 20.8 31.2

Manual Integrations
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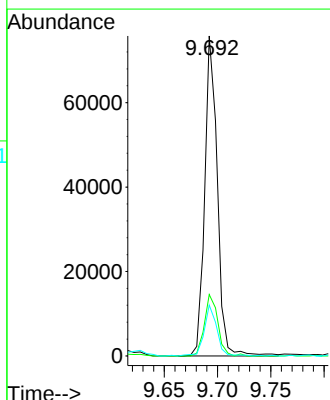
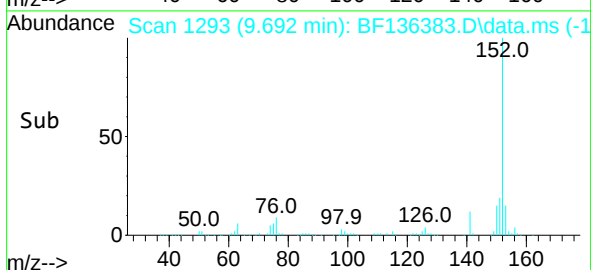
Reviewed By :Yogesh Patel 12/05/2023
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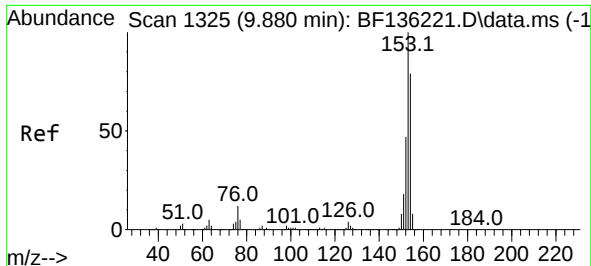


#49
Acenaphthylene
Concen: 3.110 ng
RT: 9.692 min Scan# 1293
Delta R.T. -0.012 min
Lab File: BF136383.D
Acq: 04 Dec 2023 15:51



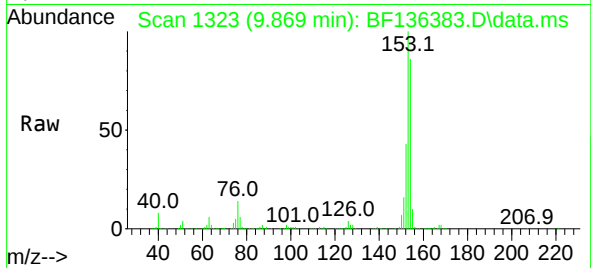
Tgt Ion:152 Resp: 62698
Ion Ratio Lower Upper
152 100
151 19.2 17.5 26.3
153 15.9 9.6 14.4





#52
Acenaphthene
Concen: 9.362 ng
RT: 9.869 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136383.D
Acq: 04 Dec 2023 15:51

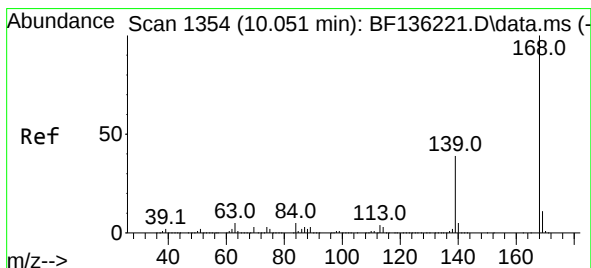
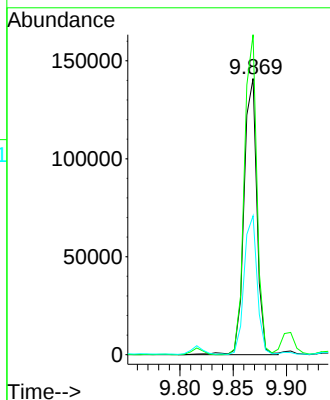
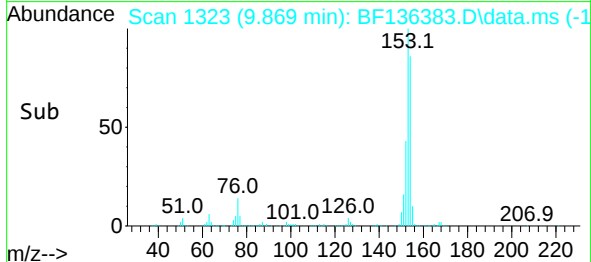
Instrument :
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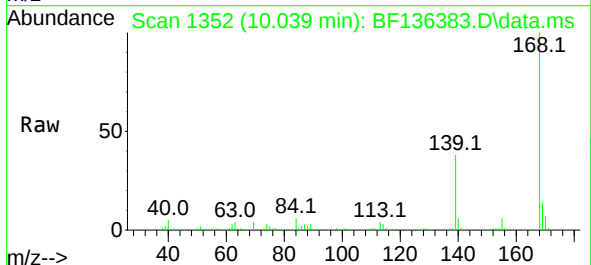
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Ion Ratio Lower Upper
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153 115.9 100.8 151.2
152 50.3 47.0 70.6

Manual Integrations
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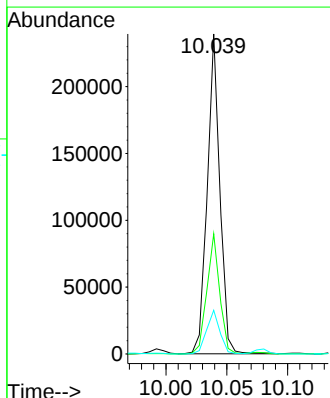
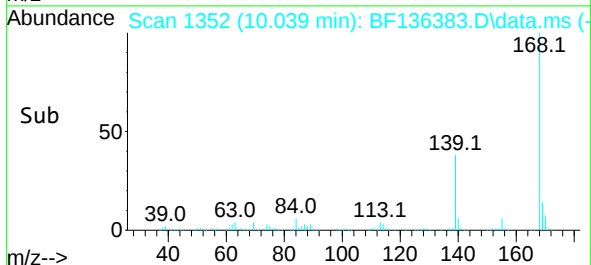
Reviewed By :Yogesh Patel 12/05/2023
Supervised By :mohammad ahmed 12/05/2023

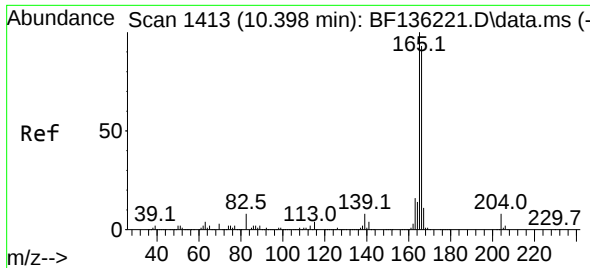


#55
Dibenzofuran
Concen: 9.014 ng
RT: 10.039 min Scan# 1352
Delta R.T. -0.006 min
Lab File: BF136383.D
Acq: 04 Dec 2023 15:51



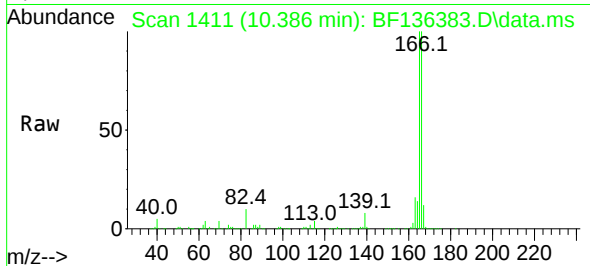
Tgt Ion:168 Resp: 170887
Ion Ratio Lower Upper
168 100
139 37.6 30.9 46.3
169 13.6 9.1 13.7





#58
Fluorene
Concen: 14.384 ng
RT: 10.386 min Scan# 1413
Delta R.T. -0.006 min
Lab File: BF136383.D
Acq: 04 Dec 2023 15:51

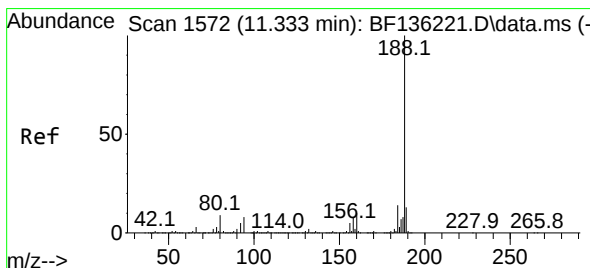
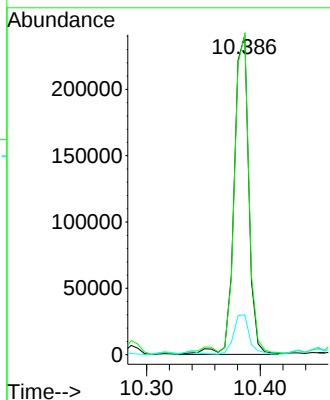
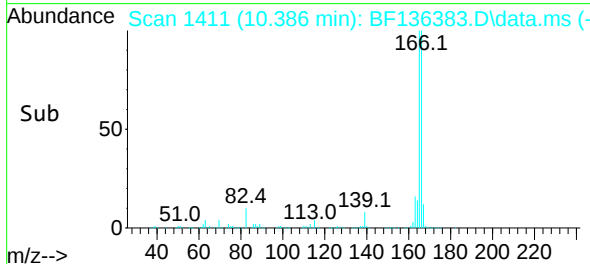
Instrument :
BNA_F
ClientSampleId :
281



Tgt Ion:166 Resp: 213890
Ion Ratio Lower Upper
166 100
165 100.2 86.2 129.4
167 12.5 9.1 13.7

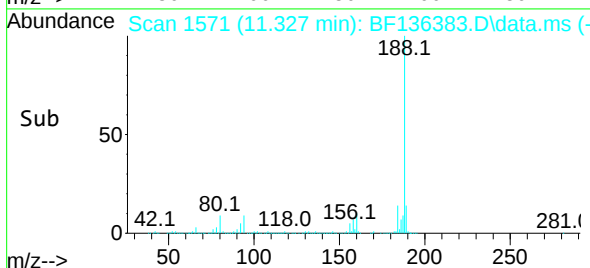
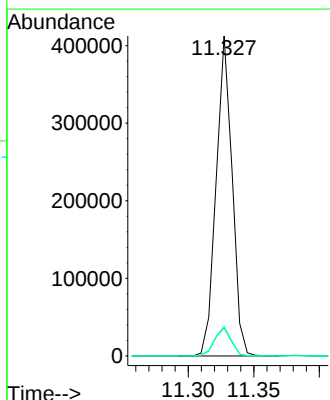
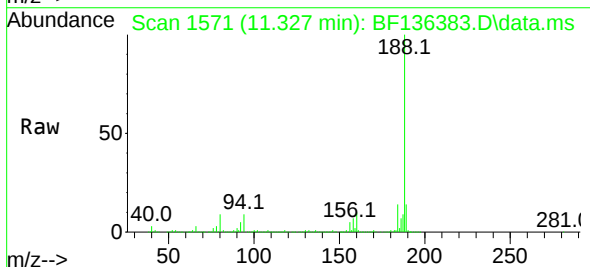
Manual Integrations
APPROVED

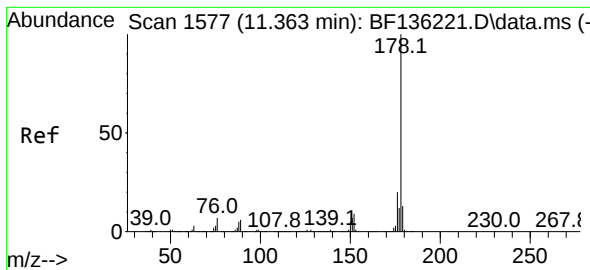
Reviewed By :Yogesh Patel 12/05/2023
Supervised By :mohammad ahmed 12/05/2023



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.327 min Scan# 1571
Delta R.T. 0.000 min
Lab File: BF136383.D
Acq: 04 Dec 2023 15:51

Tgt Ion:188 Resp: 349005
Ion Ratio Lower Upper
188 100
94 8.7 6.7 10.1
80 9.2 7.2 10.8





#71

Phenanthrene

Concen: 65.955 ng

RT: 11.357 min Scan# 11357

Delta R.T. 0.000 min

Lab File: BF136383.D

Acq: 04 Dec 2023 15:51

Instrument :

BNA_F

ClientSampleId :

281

Tgt Ion:178 Resp: 129374

Ion Ratio Lower Upper

178 100

176 20.0 16.2 24.2

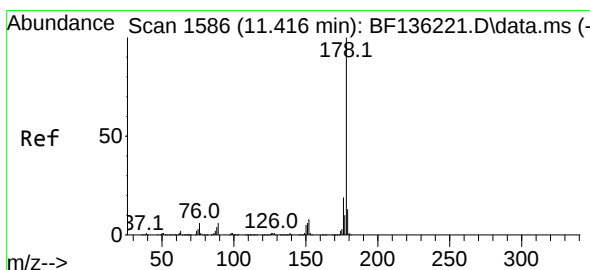
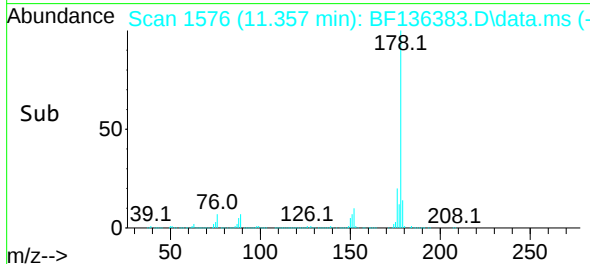
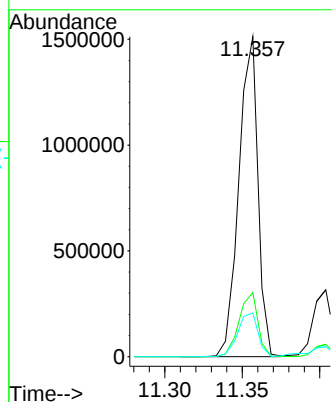
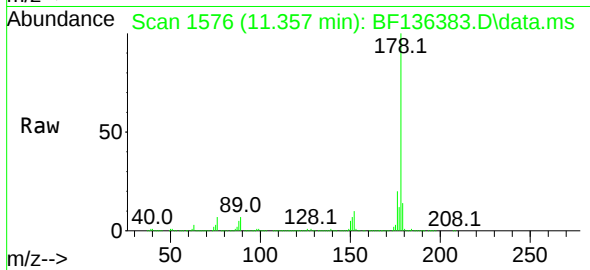
179 13.7 10.3 15.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/05/2023

Supervised By :mohammad ahmed 12/05/2023



#72

Anthracene

Concen: 13.138 ng

RT: 11.404 min Scan# 1584

Delta R.T. -0.006 min

Lab File: BF136383.D

Acq: 04 Dec 2023 15:51

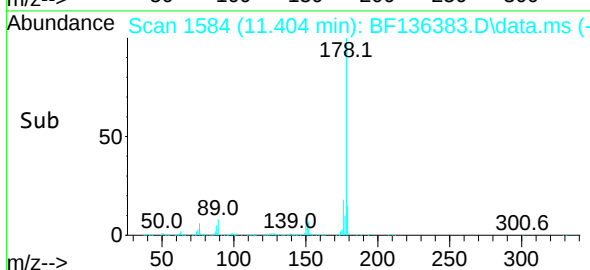
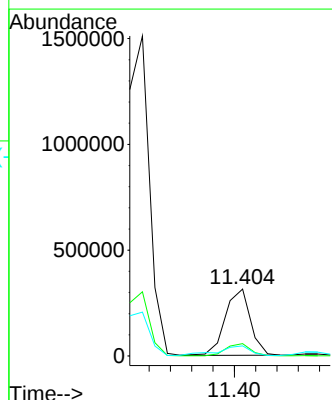
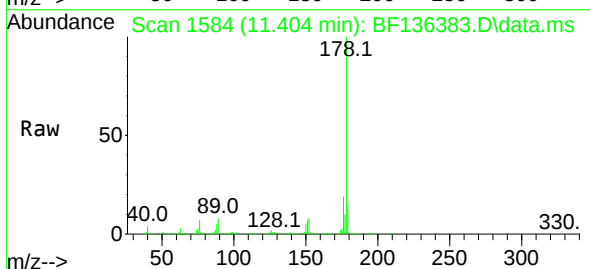
Tgt Ion:178 Resp: 258434

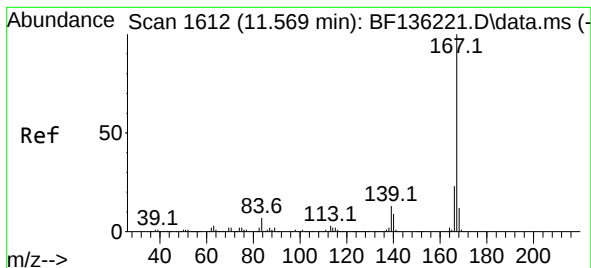
Ion Ratio Lower Upper

178 100

176 18.5 15.5 23.3

179 15.0 10.5 15.7





#73

Carbazole

Concen: 5.194 ng

RT: 11.557 min Scan# 1610

Delta R.T. -0.006 min

Lab File: BF136383.D

Acq: 04 Dec 2023 15:51

Instrument :

BNA_F

ClientSampleId :

281

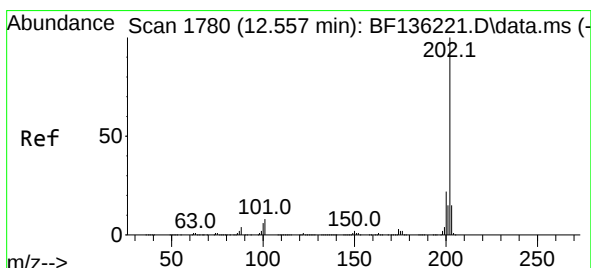
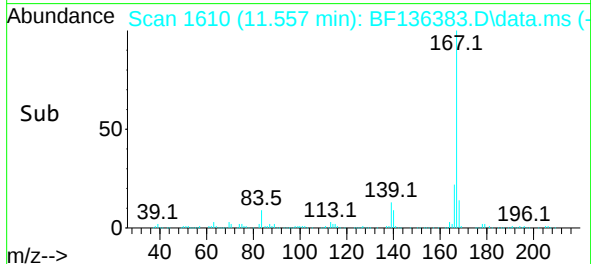
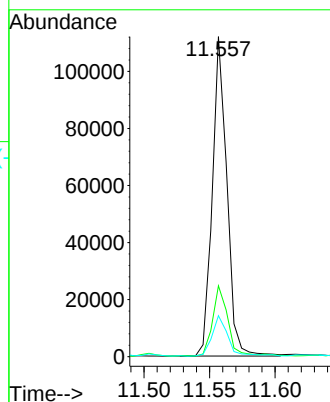
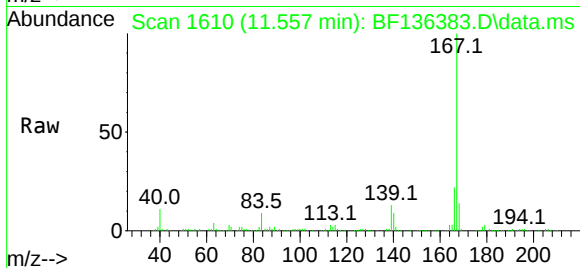
Tgt Ion:	167	Resp:	8690
Ion Ratio	Lower	Upper	
167	100		
166	22.2	18.4	27.6
139	12.8	10.5	15.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/05/2023

Supervised By :mohammad ahmed 12/05/2023



#75

Fluoranthene

Concen: 73.697 ng

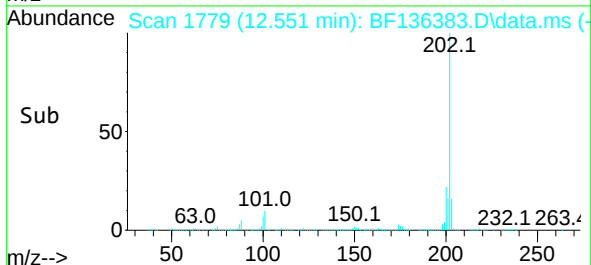
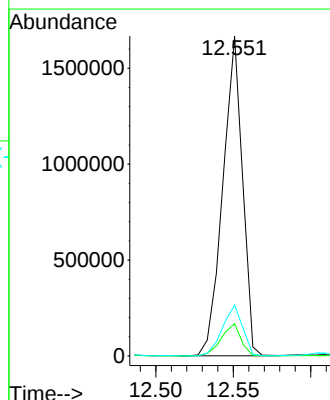
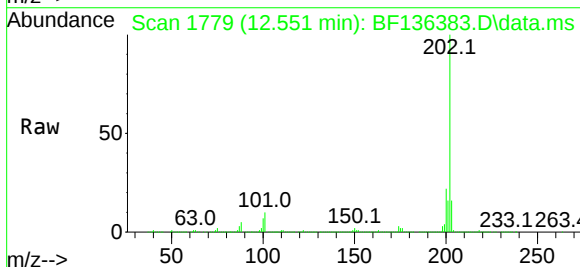
RT: 12.551 min Scan# 1779

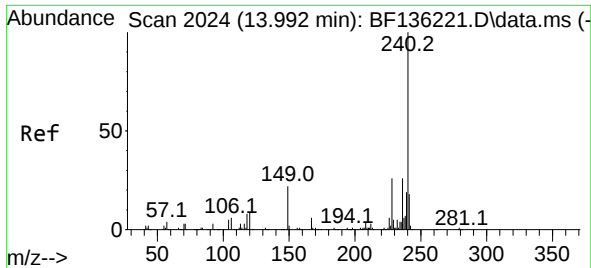
Delta R.T. 0.006 min

Lab File: BF136383.D

Acq: 04 Dec 2023 15:51

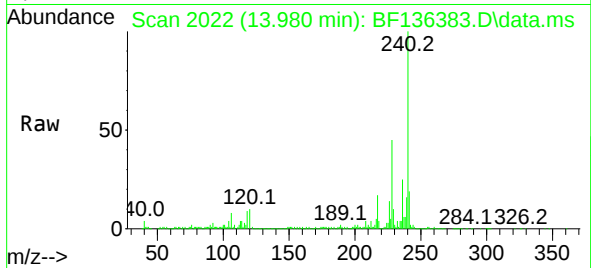
Tgt Ion:	202	Resp:	1467545
Ion Ratio	Lower	Upper	
202	100		
101	10.1	0.0	27.8
203	15.9	0.0	34.5





#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.980 min Scan# 2024
Delta R.T. 0.000 min
Lab File: BF136383.D
Acq: 04 Dec 2023 15:51

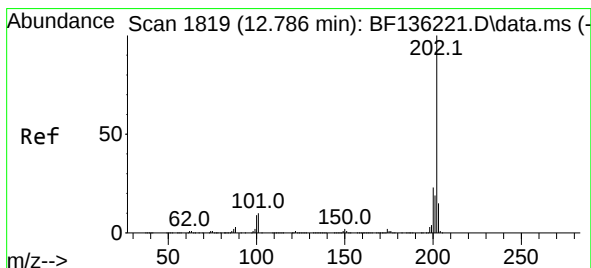
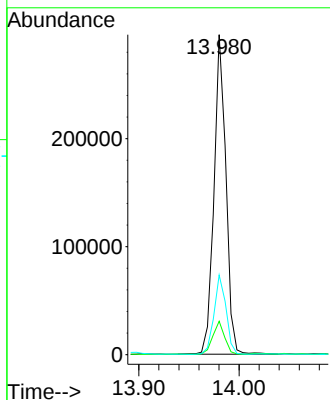
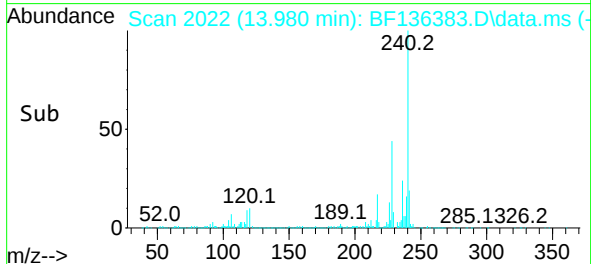
Instrument :
BNA_F
ClientSampleId :
281



Tgt Ion:240 Resp: 244869
Ion Ratio Lower Upper
240 100
120 10.5 7.4 11.2
236 24.9 21.1 31.7

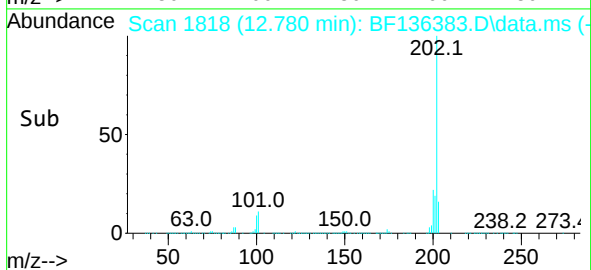
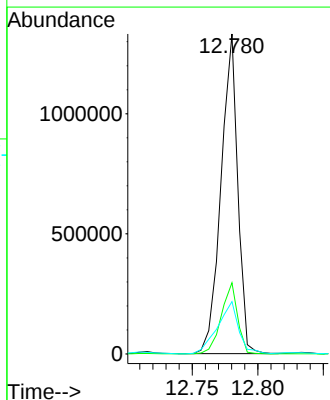
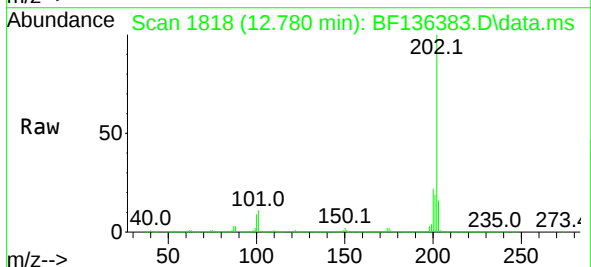
Manual Integrations
APPROVED

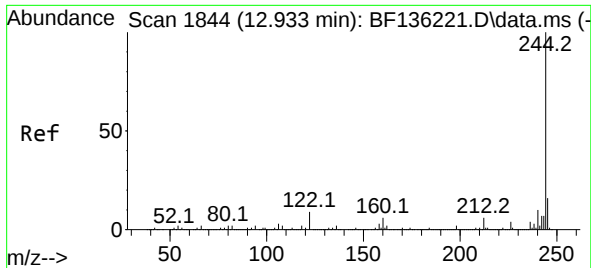
Reviewed By :Yogesh Patel 12/05/2023
Supervised By :mohammad ahmed 12/05/2023



#78
Pyrene
Concen: 44.034 ng
RT: 12.780 min Scan# 1818
Delta R.T. 0.006 min
Lab File: BF136383.D
Acq: 04 Dec 2023 15:51

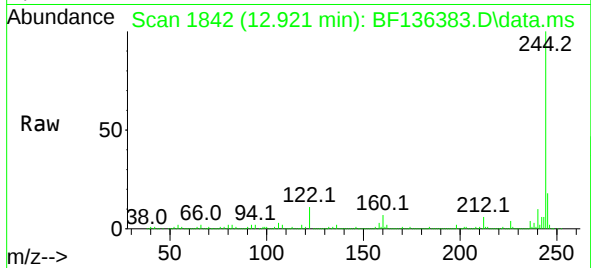
Tgt Ion:202 Resp: 1180872
Ion Ratio Lower Upper
202 100
200 22.3 18.4 27.6
203 16.3 11.8 17.6





#79
Terphenyl-d14
Concen: 36.182 ng
RT: 12.921 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136383.D
Acq: 04 Dec 2023 15:51

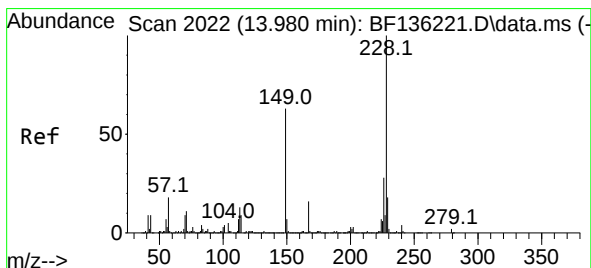
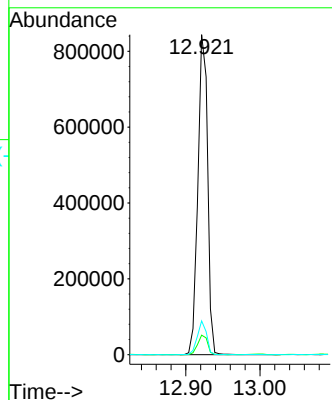
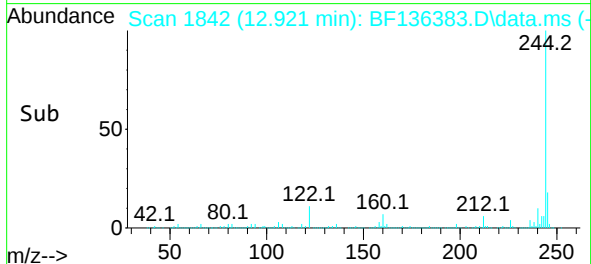
Instrument :
BNA_F
ClientSampleId :
281



Tgt Ion:244 Resp: 768092
Ion Ratio Lower Upper
244 100
212 6.1 4.6 7.0
122 10.5 7.3 10.9

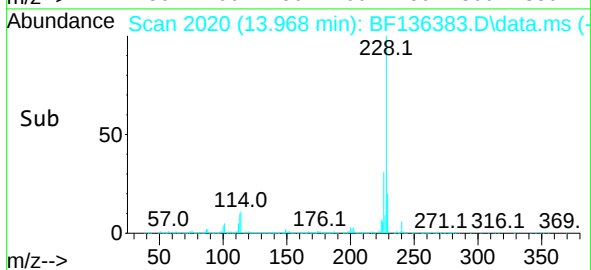
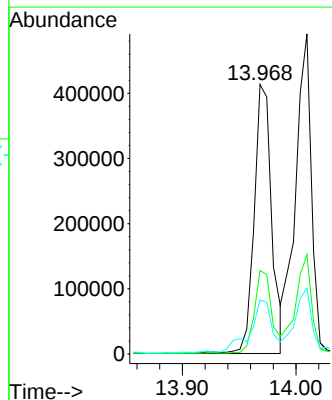
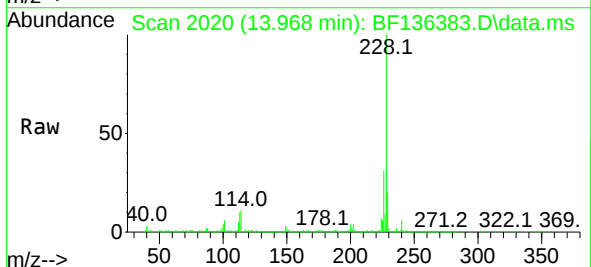
Manual Integrations
APPROVED

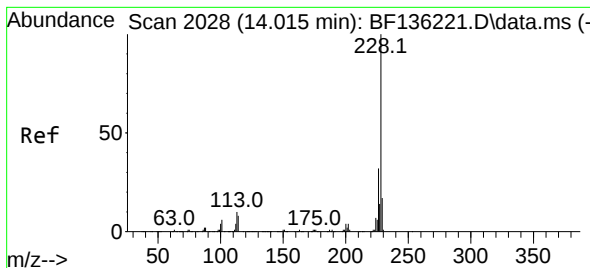
Reviewed By :Yogesh Patel 12/05/2023
Supervised By :mohammad ahmed 12/05/2023



#81
Benzo(a)anthracene
Concen: 24.378 ng
RT: 13.968 min Scan# 2020
Delta R.T. 0.000 min
Lab File: BF136383.D
Acq: 04 Dec 2023 15:51

Tgt Ion:228 Resp: 443394
Ion Ratio Lower Upper
228 100
226 31.0 22.6 34.0
229 20.0 14.0 21.0





#83

Chrysene

Concen: 27.322 ng

RT: 14.010 min Scan# 2028

Delta R.T. 0.000 min

Lab File: BF136383.D

Acq: 04 Dec 2023 15:51

Instrument :

BNA_F

ClientSampleId :

281

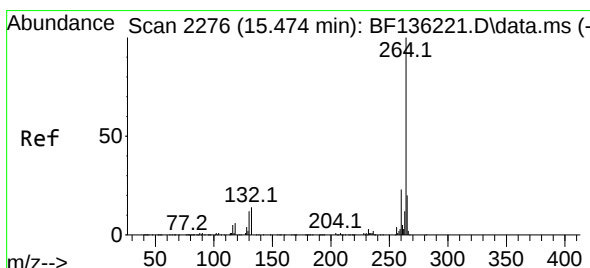
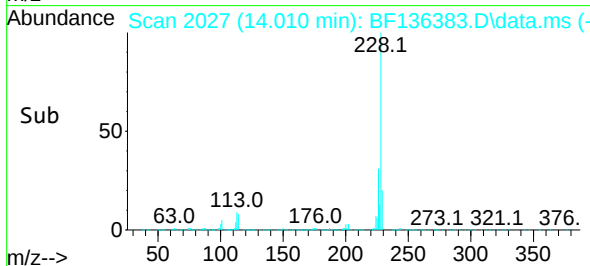
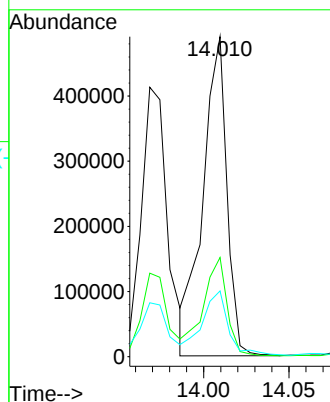
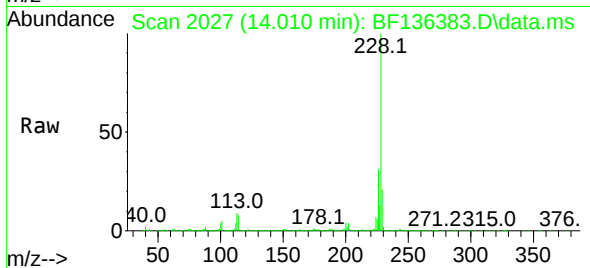
Tgt Ion:228	Resp: 47981
Ion Ratio	Lower Upper
228 100	
226 31.0	25.5 38.3
229 20.6	13.9 20.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/05/2023

Supervised By :mohammad ahmed 12/05/2023



#86

Perylene-d12

Concen: 20.000 ng

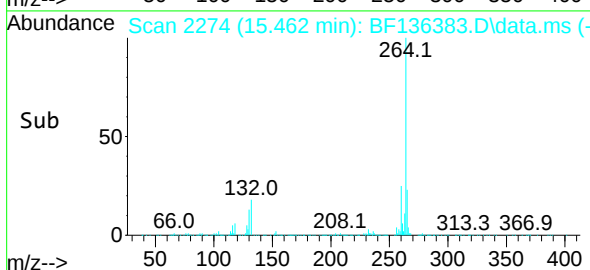
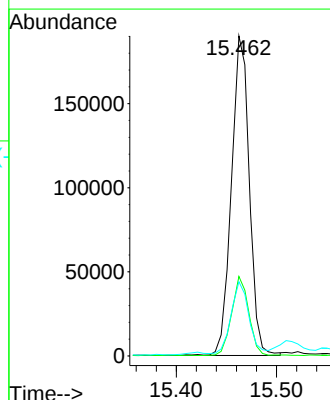
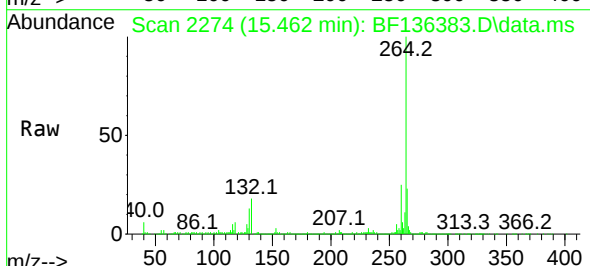
RT: 15.462 min Scan# 2274

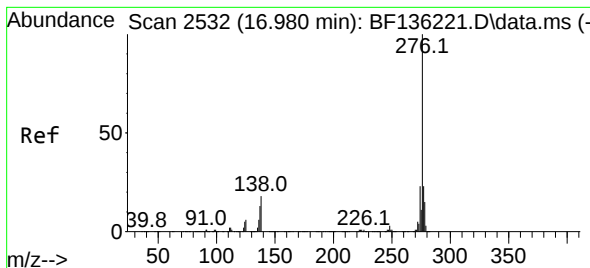
Delta R.T. 0.006 min

Lab File: BF136383.D

Acq: 04 Dec 2023 15:51

Tgt Ion:264	Resp: 236212
Ion Ratio	Lower Upper
264 100	
260 24.9	18.6 27.8
265 23.2	15.7 23.5





#87

Indeno(1,2,3-cd)pyrene

Concen: 9.236 ng

RT: 16.962 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF136383.D

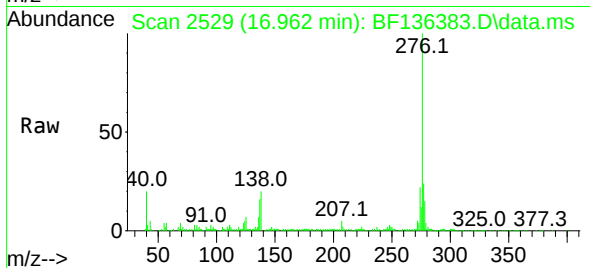
Acq: 04 Dec 2023 15:51

Instrument :

BNA_F

ClientSampleId :

281



Tgt Ion:276 Resp: 122610

Ion Ratio Lower Upper

276 100

138 20.7 17.7 26.5

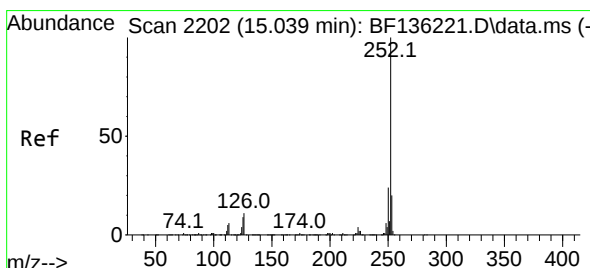
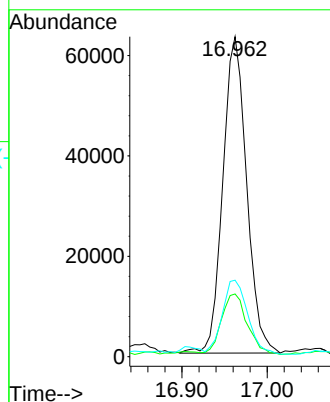
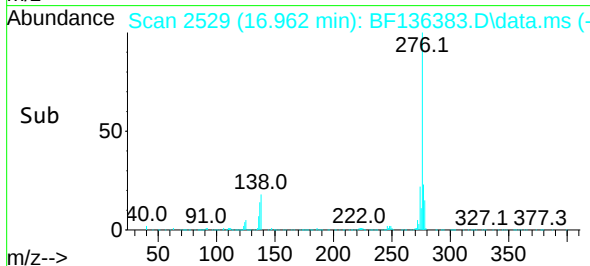
277 24.9 19.6 29.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/05/2023

Supervised By :mohammad ahmed 12/05/2023



#88

Benzo(b)fluoranthene

Concen: 31.151 ng m

RT: 15.027 min Scan# 2200

Delta R.T. 0.000 min

Lab File: BF136383.D

Acq: 04 Dec 2023 15:51

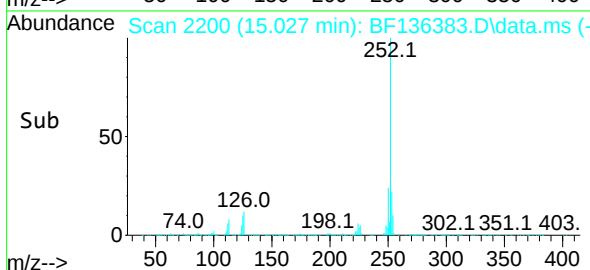
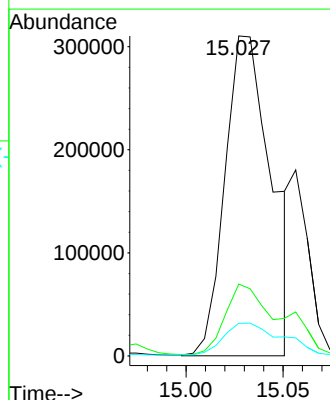
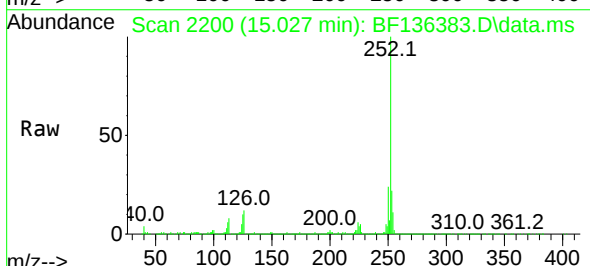
Tgt Ion:252 Resp: 516244

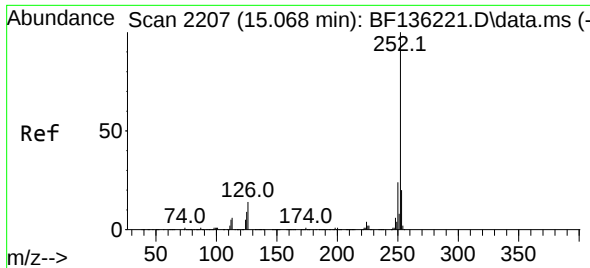
Ion Ratio Lower Upper

252 100

253 22.5 16.2 24.2

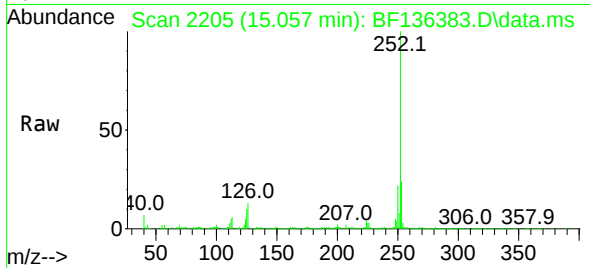
125 10.2 6.9 10.3





#89
Benzo(k)fluoranthene
Concen: 7.710 ng m
RT: 15.057 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF136383.D
Acq: 04 Dec 2023 15:51

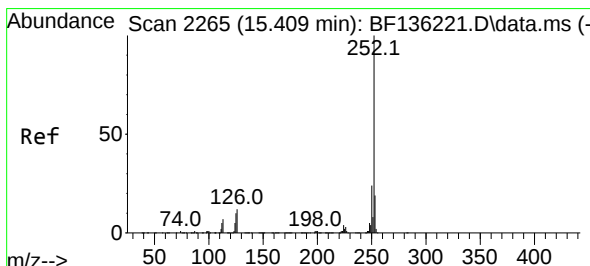
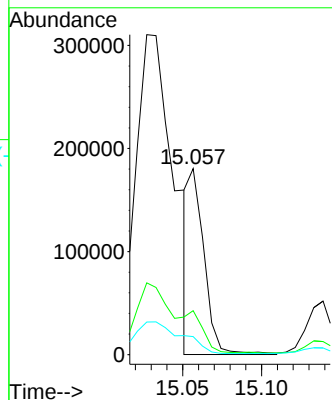
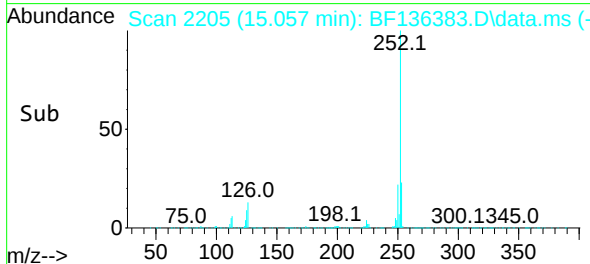
Instrument :
BNA_F
ClientSampleId :
281



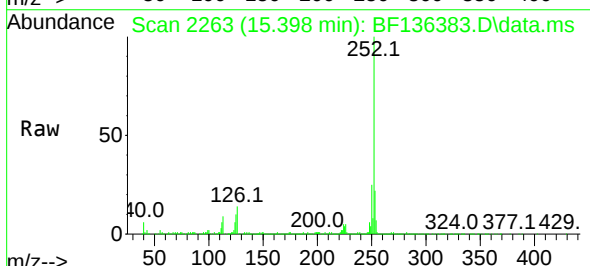
Tgt Ion:252 Resp: 12135
Ion Ratio Lower Upper
252 100
253 23.6 15.6 23.4
125 9.8 7.0 10.4

Manual Integrations
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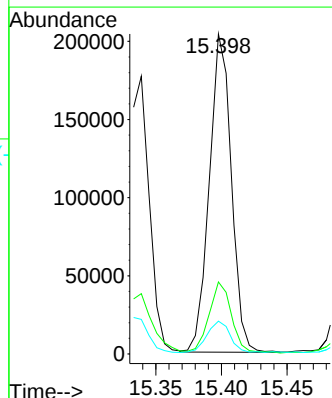
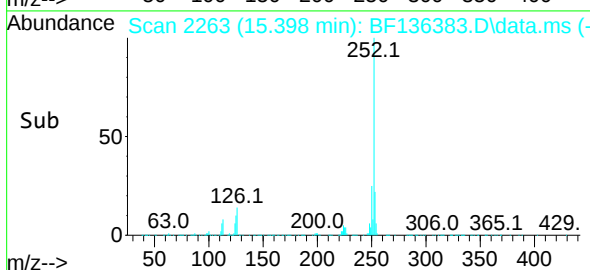
Reviewed By :Yogesh Patel 12/05/2023
Supervised By :mohammad ahmed 12/05/2023

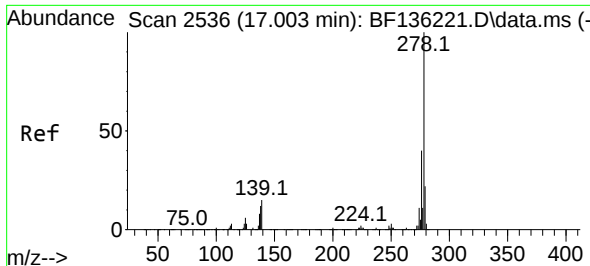


#90
Benzo(a)pyrene
Concen: 17.565 ng
RT: 15.398 min Scan# 2263
Delta R.T. 0.000 min
Lab File: BF136383.D
Acq: 04 Dec 2023 15:51



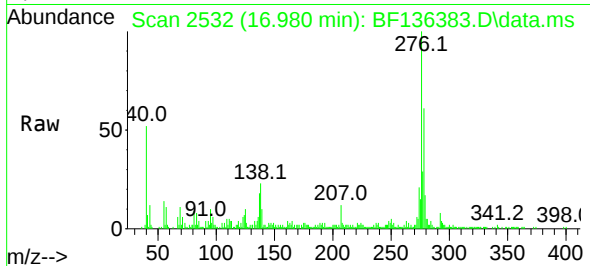
Tgt Ion:252 Resp: 237961
Ion Ratio Lower Upper
252 100
253 22.5 15.5 23.3
125 10.3 7.9 11.9





#91
Dibenzo(a,h)anthracene
Concen: 4.923 ng
RT: 16.980 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF136383.D
Acq: 04 Dec 2023 15:51

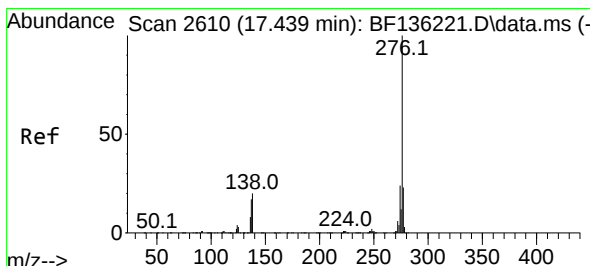
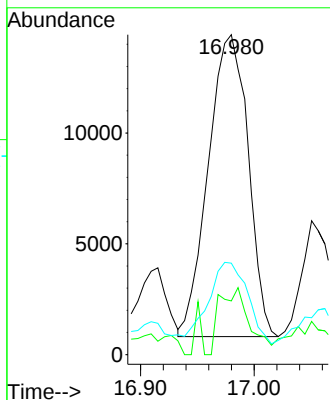
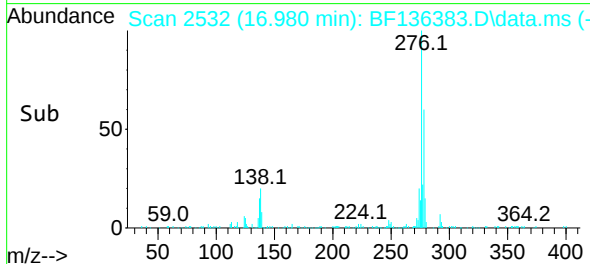
Instrument :
BNA_F
ClientSampleId :
281



Tgt Ion:278 Resp: 3318
Ion Ratio Lower Upper
278 100
139 16.8 11.7 17.5
279 28.6 17.8 26.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/05/2023
Supervised By :mohammad ahmed 12/05/2023



#92
Benzo(g,h,i)perylene
Concen: 9.168 ng
RT: 17.421 min Scan# 2607
Delta R.T. 0.000 min
Lab File: BF136383.D
Acq: 04 Dec 2023 15:51

Tgt Ion:276 Resp: 107599
Ion Ratio Lower Upper
276 100
277 24.0 18.6 27.8
138 19.8 15.8 23.8

