

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112923\
 Data File : BF136304.D
 Acq On : 30 Nov 2023 02:10
 Operator : CG\JU
 Sample : 05517-01DL 5X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-ADL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/30/2023
 Supervised By :mohammad ahmed 12/01/2023

Quant Time: Nov 30 02:36:23 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 28 03:04:20 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.804	152	89841	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	312367	20.000	ng	0.00
39) Acenaphthene-d10	9.839	164	135190	20.000	ng	0.00
64) Phenanthrene-d10	11.328	188	275864	20.000	ng	0.00
76) Chrysene-d12	13.986	240	228338	20.000	ng	0.00
86) Perylene-d12	15.468	264	171325	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.434	112	144798	22.433	ng	0.00
7) Phenol-d6	6.434	99	162949	20.190	ng	-0.01
23) Nitrobenzene-d5	7.357	82	89285	15.104	ng	-0.02
42) 2,4,6-Tribromophenol	10.628	330	36021	21.794	ng	-0.01
45) 2-Fluorobiphenyl	9.157	172	153797	14.531	ng	-0.01
79) Terphenyl-d14	12.927	244	214182	10.820	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.104	128	96621	5.503	ng	97
58) Fluorene	10.386	166	23148	2.375	ng	87
71) Phenanthrene	11.351	178	191229	12.334	ng	96
72) Anthracene	11.404	178	57828	3.719	ng	96
75) Fluoranthene	12.551	202	463235	29.430	ng	97
78) Pyrene	12.780	202	422050	16.877	ng	97
81) Benzo(a)anthracene	13.974	228	194763	11.484	ng	96
83) Chrysene	14.010	228	161354m	9.853	ng	
87) Indeno(1,2,3-cd)pyrene	16.968	276	59339	7.054	ng	97
88) Benzo(b)fluoranthene	15.033	252	181236m	15.078	ng	
89) Benzo(k)fluoranthene	15.057	252	54029m	4.733	ng	
90) Benzo(a)pyrene	15.404	252	119008	12.112	ng	95
91) Dibenzo(a,h)anthracene	16.980	278	15015	4.092	ng	# 91
92) Benzo(g,h,i)perylene	17.421	276	56121	7.127	ng	95

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

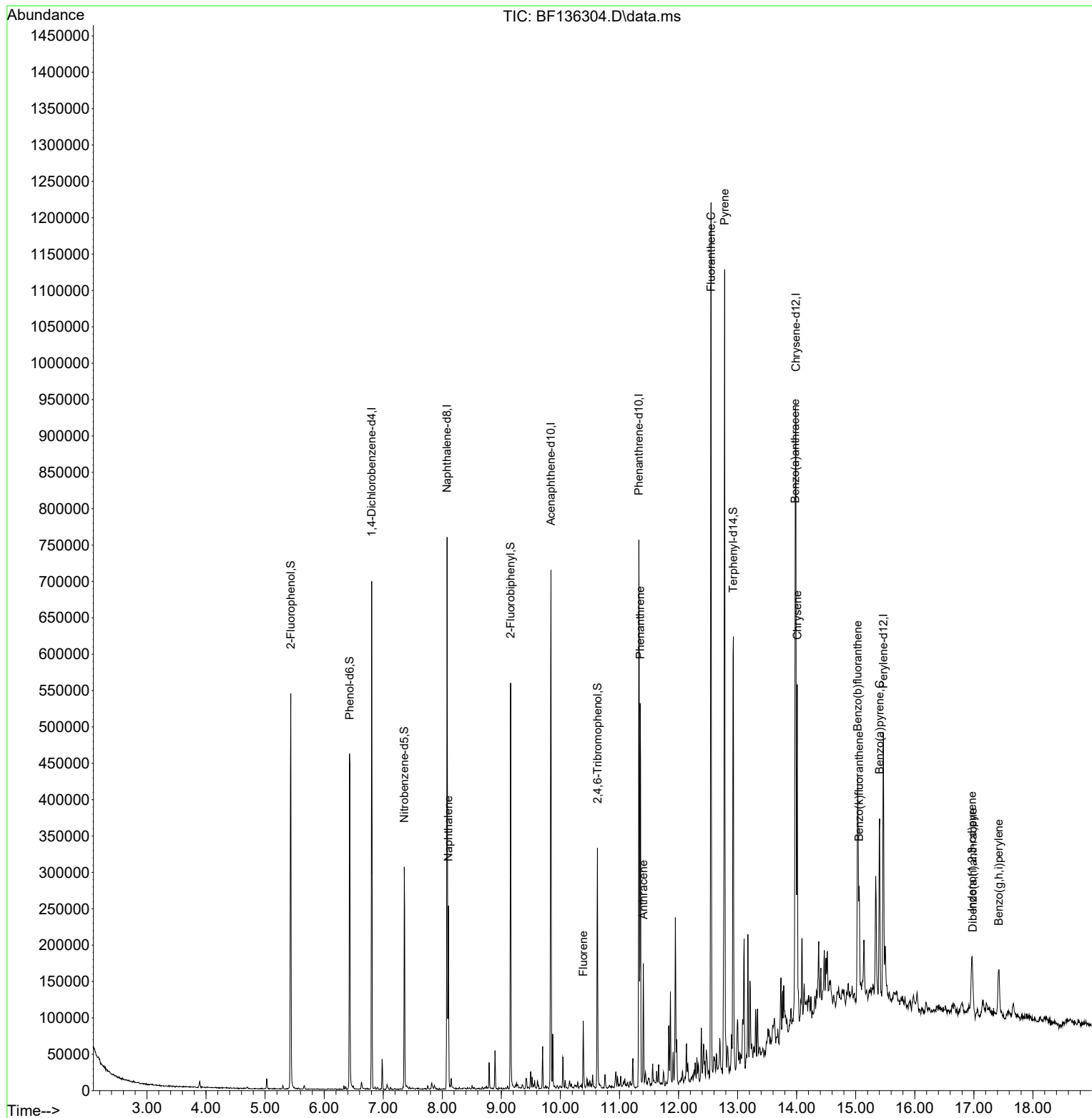
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112923\
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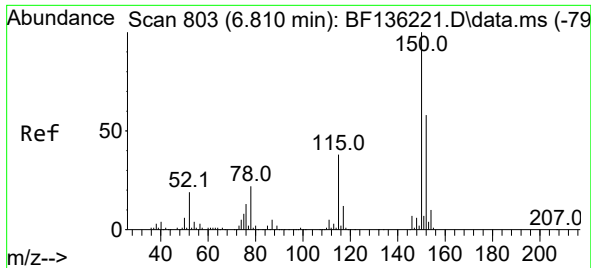
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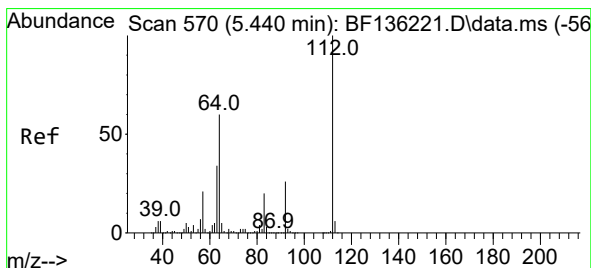
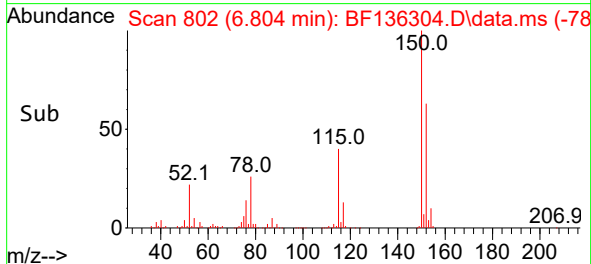
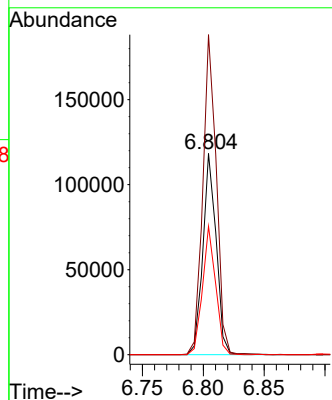
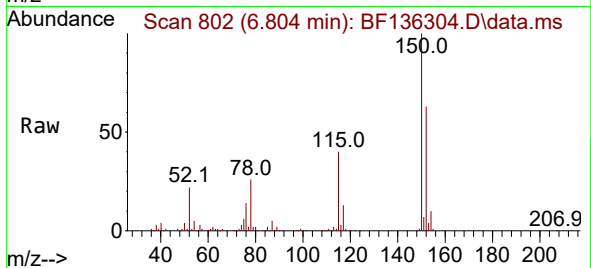
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.804 min Scan# 803
Delta R.T. -0.006 min
Lab File: BF136304.D
Acq: 30 Nov 2023 02:10

Instrument :
BNA_F
ClientSampleId :
TP-ADL

Tgt Ion:152 Resp: 8984
Ion Ratio Lower Upper
152 100
150 159.1 137.8 206.8
115 63.8 52.7 79.1

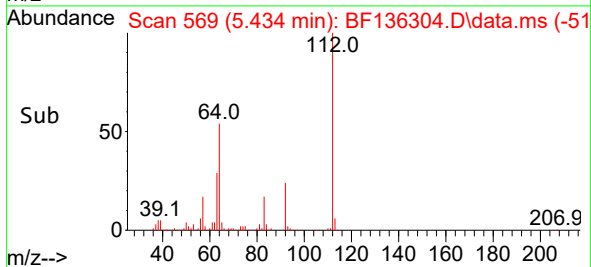
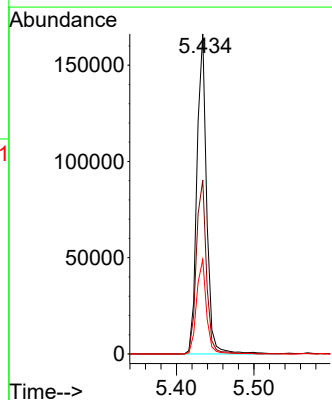
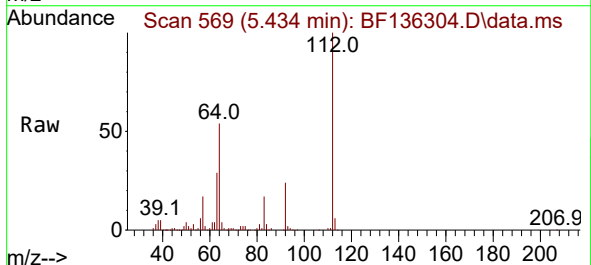
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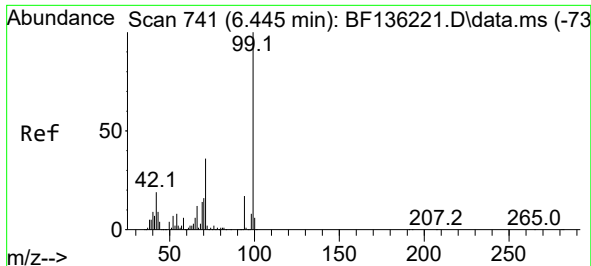
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#5
2-Fluorophenol
Concen: 22.433 ng
RT: 5.434 min Scan# 569
Delta R.T. -0.006 min
Lab File: BF136304.D
Acq: 30 Nov 2023 02:10

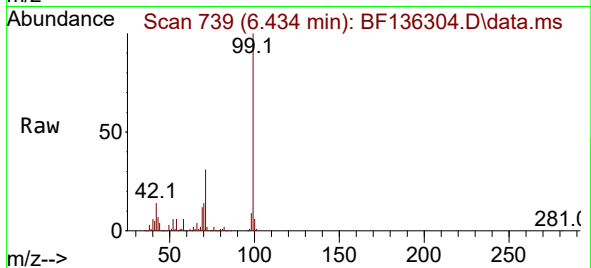
Tgt Ion:112 Resp: 144798
Ion Ratio Lower Upper
112 100
64 54.4 48.2 72.4
63 29.5 27.0 40.6





#7
Phenol-d6
Concen: 20.190 ng
RT: 6.434 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF136304.D
Acq: 30 Nov 2023 02:10

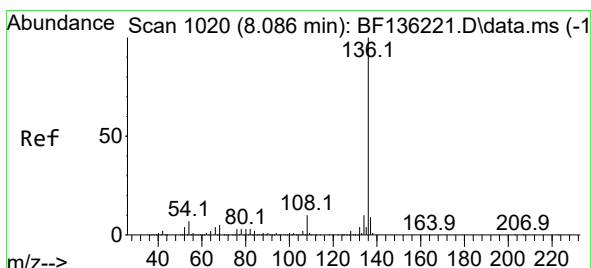
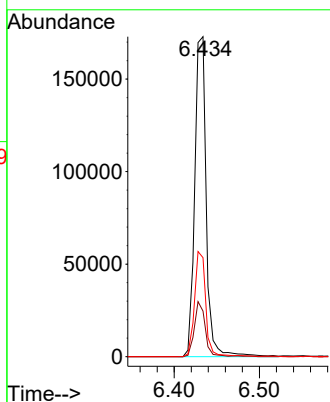
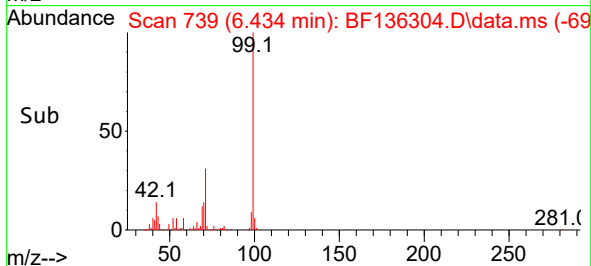
Instrument :
BNA_F
ClientSampleId :
TP-ADL



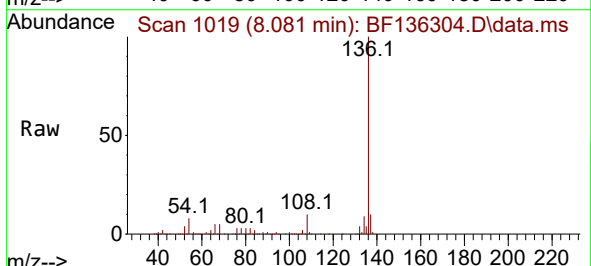
Tgt Ion: 99 Resp: 162949
Ion Ratio Lower Upper
99 100
42 14.2 15.0 22.6
71 31.0 28.9 43.3

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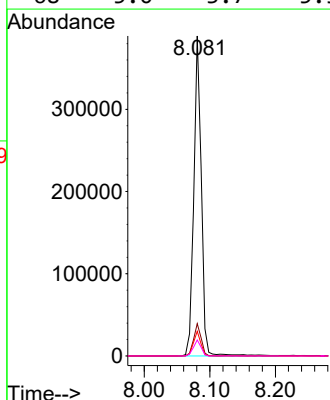
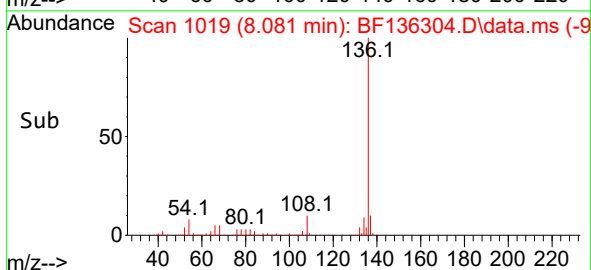
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023

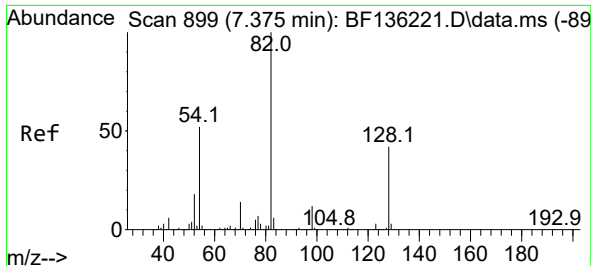


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF136304.D
Acq: 30 Nov 2023 02:10



Tgt Ion:136 Resp: 312367
Ion Ratio Lower Upper
136 100
137 10.1 7.4 11.2
54 7.7 5.5 8.3
68 5.0 3.7 5.5





#23

Nitrobenzene-d5

Concen: 15.104 ng

RT: 7.357 min Scan# 899

Delta R.T. -0.017 min

Lab File: BF136304.D

Acq: 30 Nov 2023 02:10

Instrument :

BNA_F

ClientSampleId :

TP-ADL

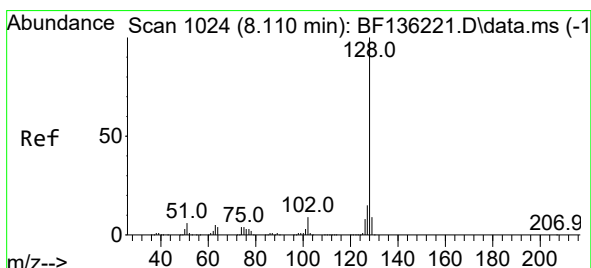
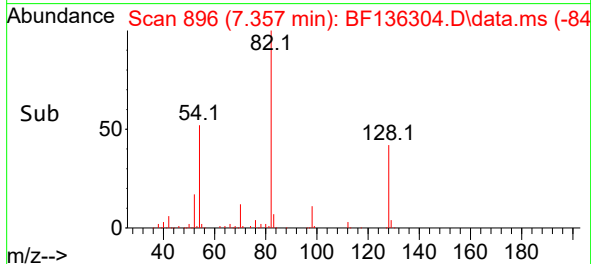
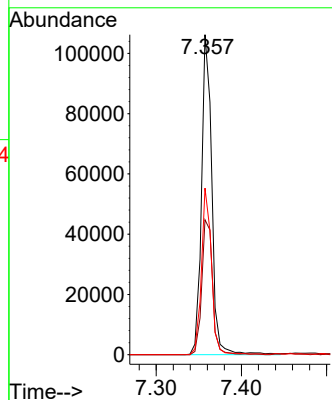
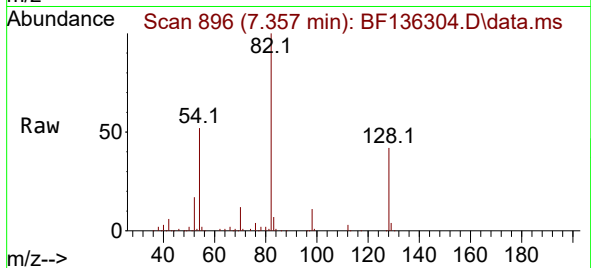
Tgt Ion:	82	Resp:	8928
Ion Ratio	Lower	Upper	
82	100		
128	42.2	33.4	50.2
54	52.1	41.7	62.5

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#31

Naphthalene

Concen: 5.503 ng

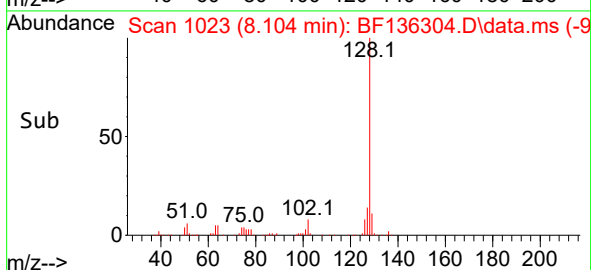
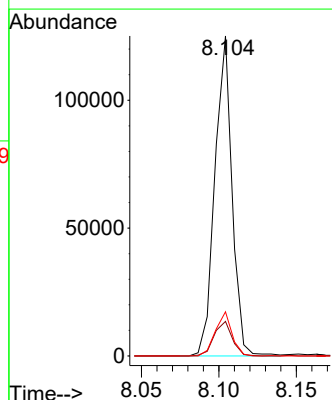
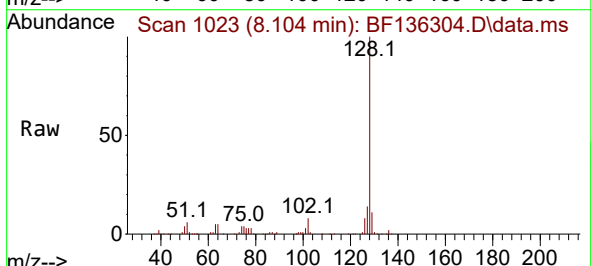
RT: 8.104 min Scan# 1023

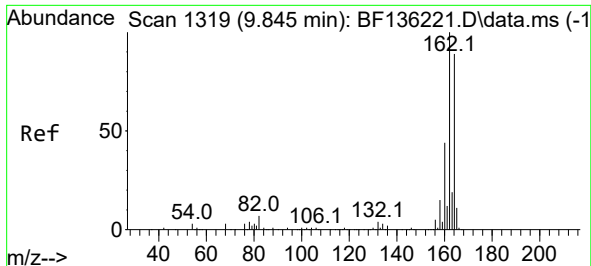
Delta R.T. -0.006 min

Lab File: BF136304.D

Acq: 30 Nov 2023 02:10

Tgt Ion:	128	Resp:	96621
Ion Ratio	Lower	Upper	
128	100		
129	10.8	7.3	10.9
127	13.8	11.8	17.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.839 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF136304.D

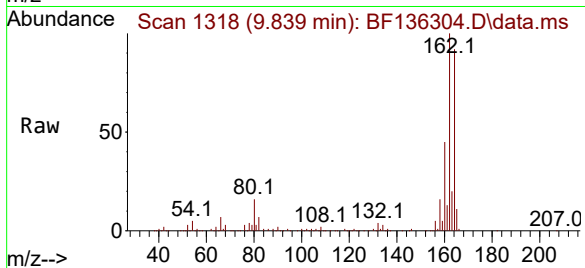
Acq: 30 Nov 2023 02:10

Instrument :

BNA_F

ClientSampleId :

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Tgt Ion:164 Resp: 135190

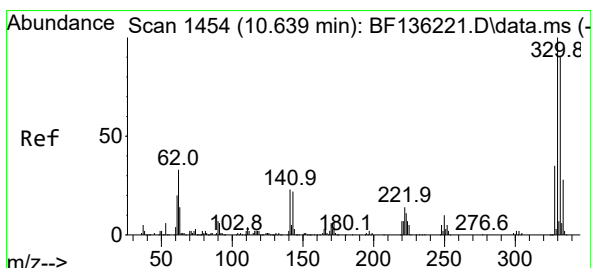
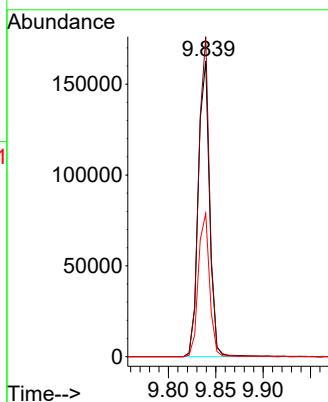
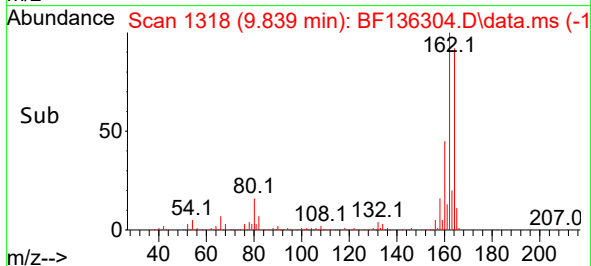
Ion	Ratio	Lower	Upper
164	100		
162	108.3	89.5	134.3
160	48.5	39.6	59.4

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#42

2,4,6-Tribromophenol

Concen: 21.794 ng

RT: 10.628 min Scan# 1452

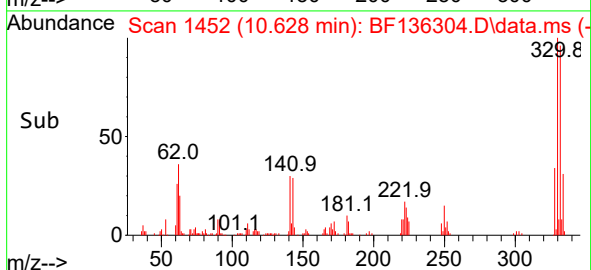
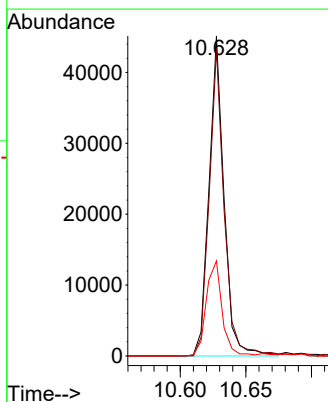
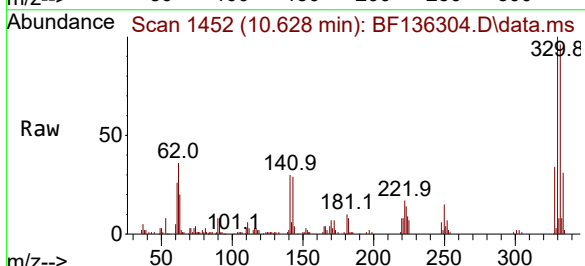
Delta R.T. -0.012 min

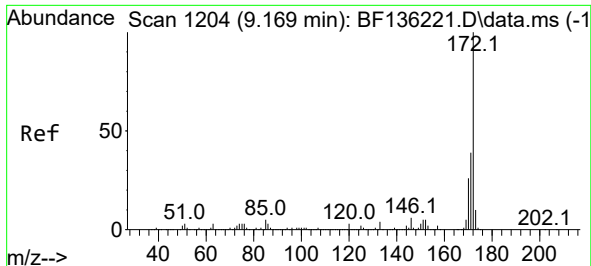
Lab File: BF136304.D

Acq: 30 Nov 2023 02:10

Tgt Ion:330 Resp: 36021

Ion	Ratio	Lower	Upper
330	100		
332	96.1	73.0	109.6
141	31.4	24.2	36.2





#45

2-Fluorobiphenyl

Concen: 14.531 ng

RT: 9.157 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF136304.D

Acq: 30 Nov 2023 02:10

Instrument :

BNA_F

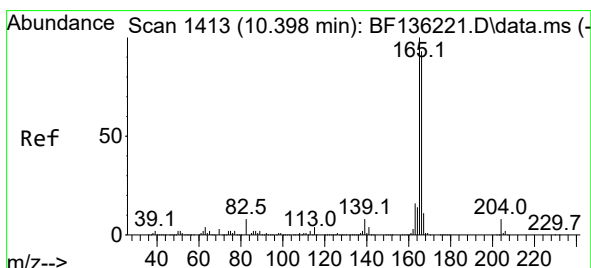
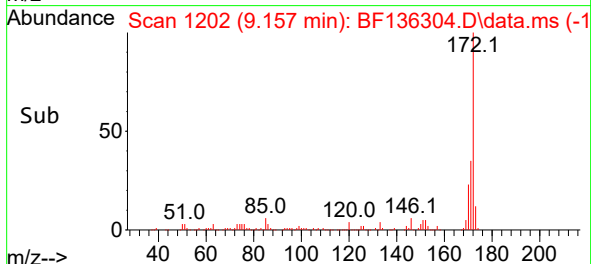
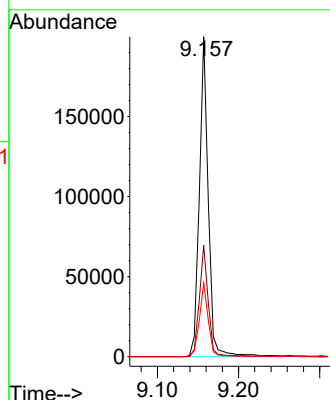
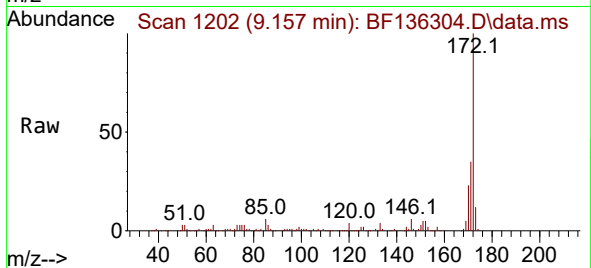
ClientSampleId :

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Tgt Ion:172 Resp: 15379
 Ion Ratio Lower Upper
 172 100
 171 34.9 31.5 47.3
 170 22.9 20.8 31.2

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#58

Fluorene

Concen: 2.375 ng

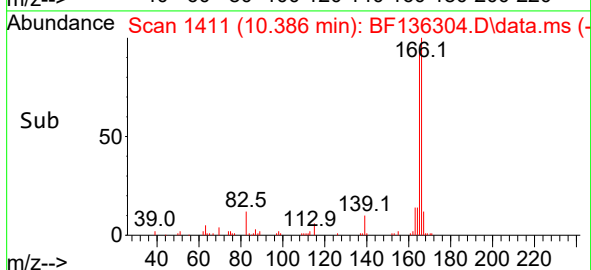
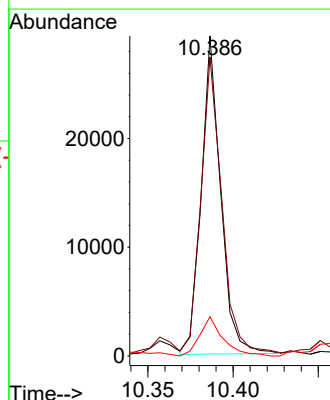
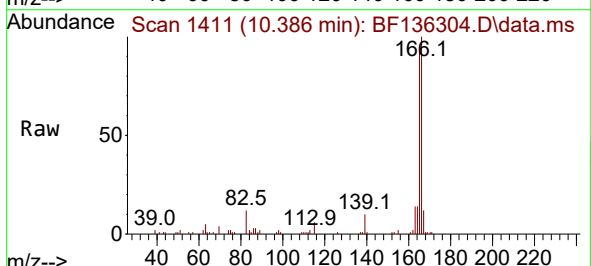
RT: 10.386 min Scan# 1411

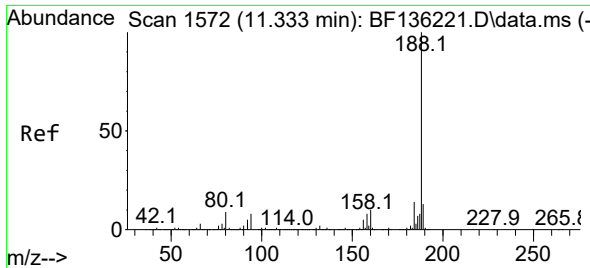
Delta R.T. -0.012 min

Lab File: BF136304.D

Acq: 30 Nov 2023 02:10

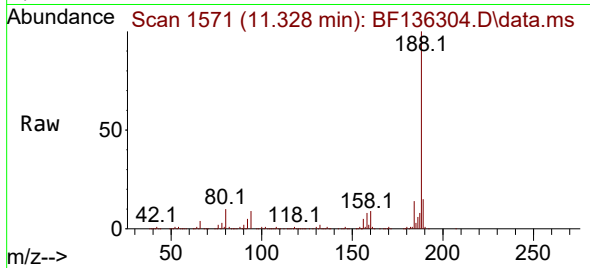
Tgt Ion:166 Resp: 23148
 Ion Ratio Lower Upper
 166 100
 165 93.5 86.2 129.4
 167 12.3 9.1 13.7





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.328 min Scan# 1571
Delta R.T. -0.005 min
Lab File: BF136304.D
Acq: 30 Nov 2023 02:10

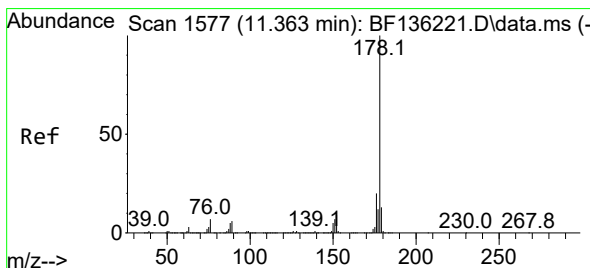
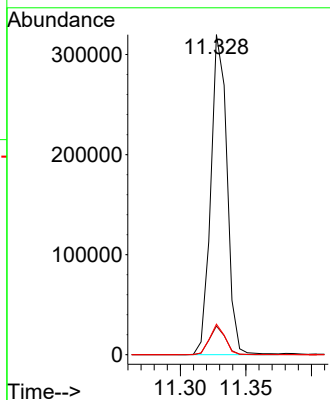
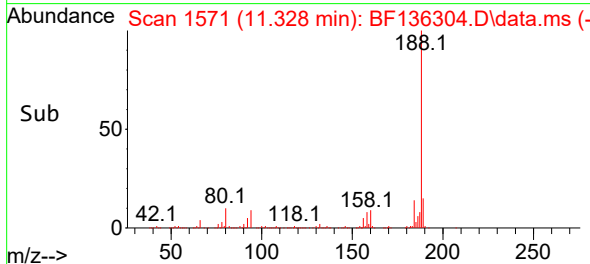
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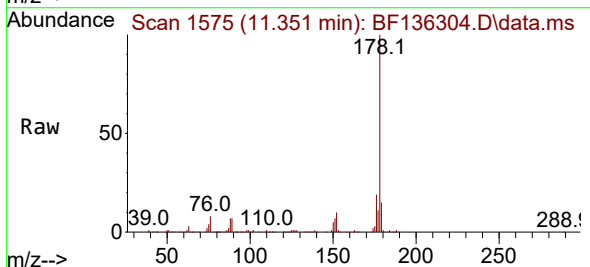
Tgt Ion:188 Resp: 275864
Ion Ratio Lower Upper
188 100
94 9.0 6.7 10.1
80 9.6 7.2 10.8

Manual Integrations
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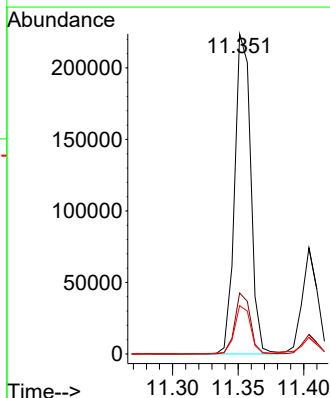
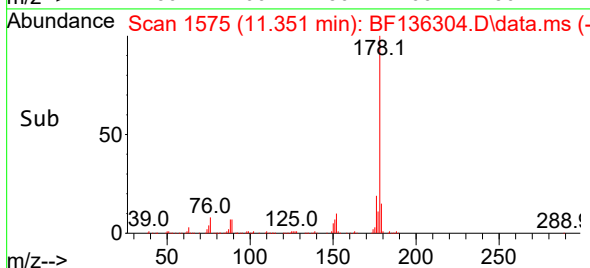
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023

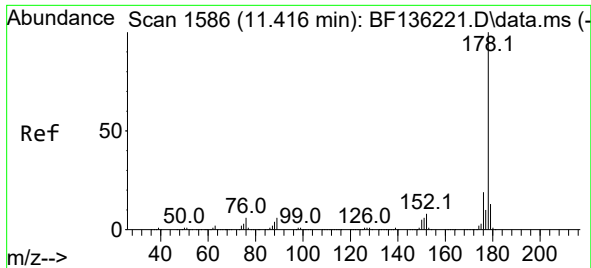


#71
Phenanthrene
Concen: 12.334 ng
RT: 11.351 min Scan# 1575
Delta R.T. -0.012 min
Lab File: BF136304.D
Acq: 30 Nov 2023 02:10



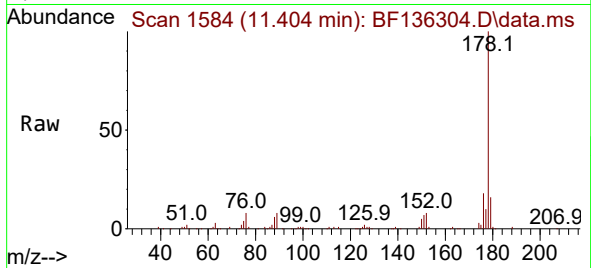
Tgt Ion:178 Resp: 191229
Ion Ratio Lower Upper
178 100
176 19.1 16.2 24.2
179 15.1 10.3 15.5





#72
 Anthracene
 Concen: 3.719 ng
 RT: 11.404 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF136304.D
 Acq: 30 Nov 2023 02:10

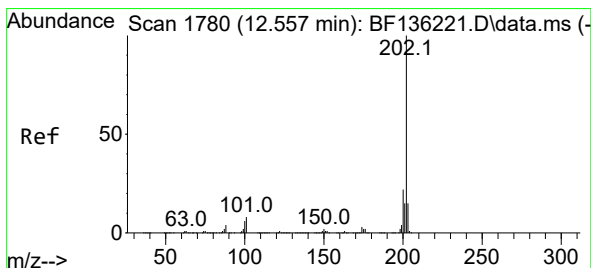
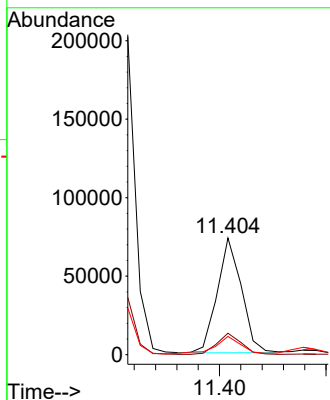
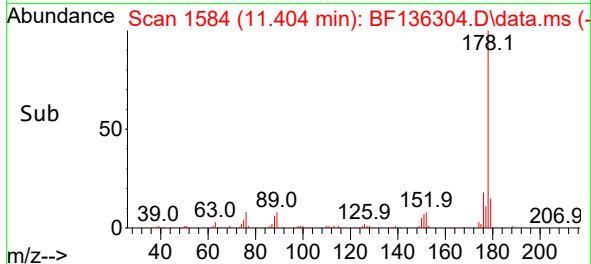
Instrument :
 BNA_F
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 TP-ADL



Tgt Ion:178 Resp: 57828
 Ion Ratio Lower Upper
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 176 18.3 15.5 23.3
 179 15.6 10.5 15.7

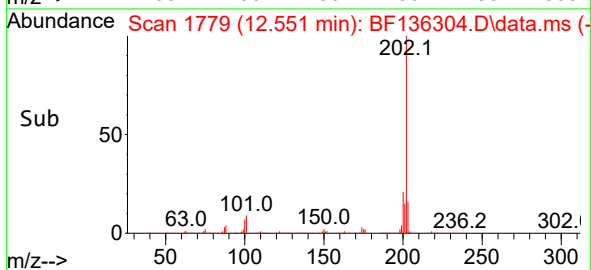
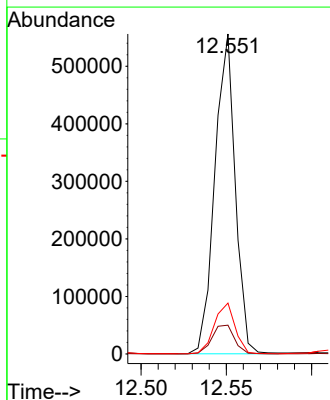
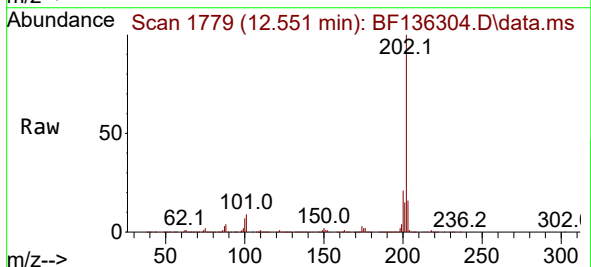
Manual Integrations
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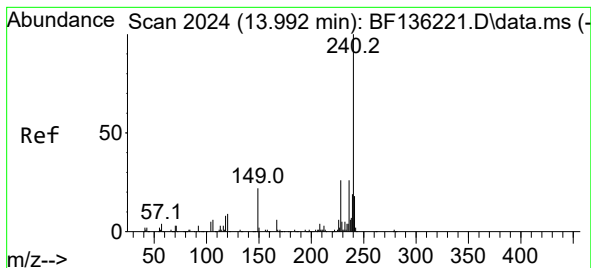
Reviewed By :Yogesh Patel 11/30/2023
 Supervised By :mohammad ahmed 12/01/2023



#75
 Fluoranthene
 Concen: 29.430 ng
 RT: 12.551 min Scan# 1779
 Delta R.T. -0.006 min
 Lab File: BF136304.D
 Acq: 30 Nov 2023 02:10

Tgt Ion:202 Resp: 463235
 Ion Ratio Lower Upper
 202 100
 101 9.0 0.0 27.8
 203 15.9 0.0 34.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.986 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF136304.D

Acq: 30 Nov 2023 02:10

Instrument :

BNA_F

ClientSampleId :

TP-ADL

Tgt Ion:240 Resp: 228338

Ion Ratio Lower Upper

240 100

120 8.7 7.4 11.2

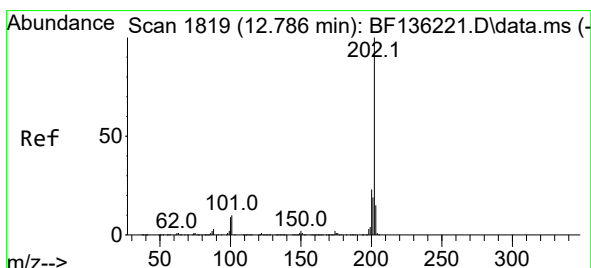
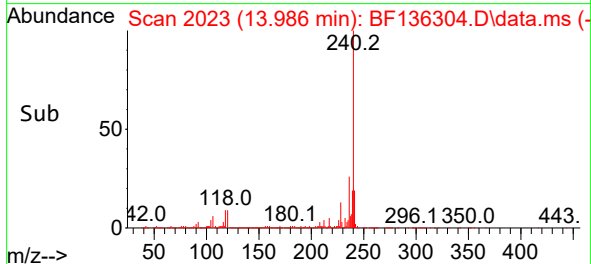
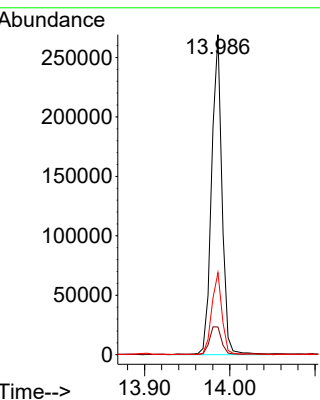
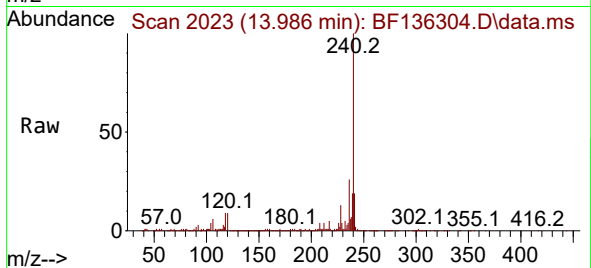
236 25.7 21.1 31.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/30/2023

Supervised By :mohammad ahmed 12/01/2023



#78

Pyrene

Concen: 16.877 ng

RT: 12.780 min Scan# 1818

Delta R.T. -0.006 min

Lab File: BF136304.D

Acq: 30 Nov 2023 02:10

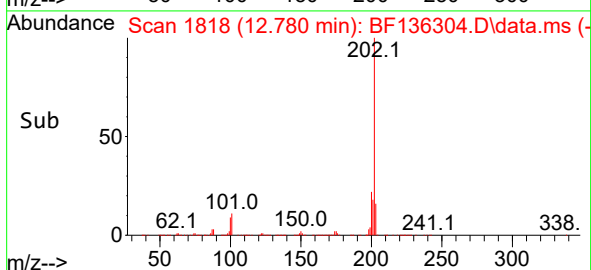
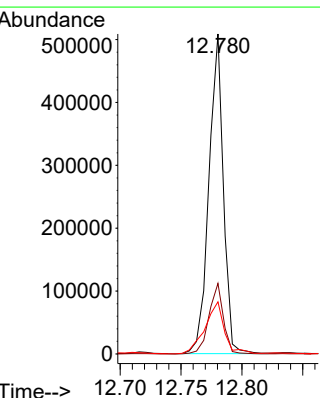
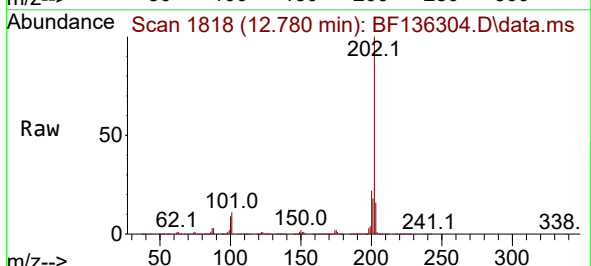
Tgt Ion:202 Resp: 422050

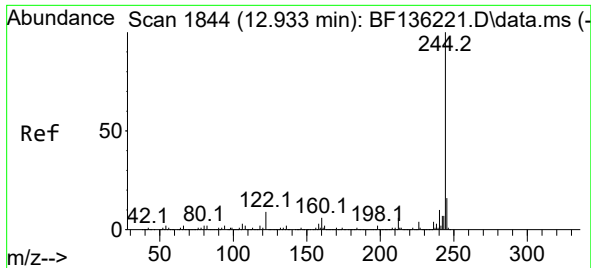
Ion Ratio Lower Upper

202 100

200 22.0 18.4 27.6

203 16.3 11.8 17.6





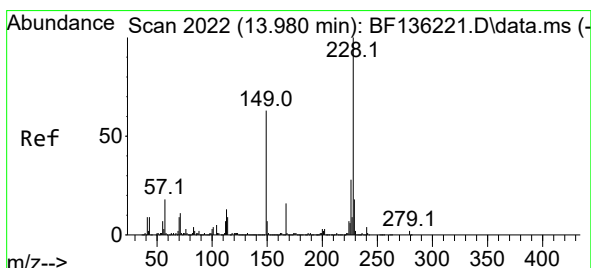
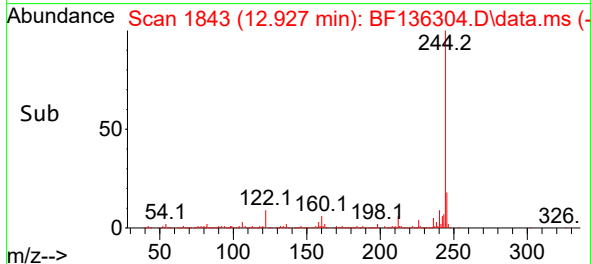
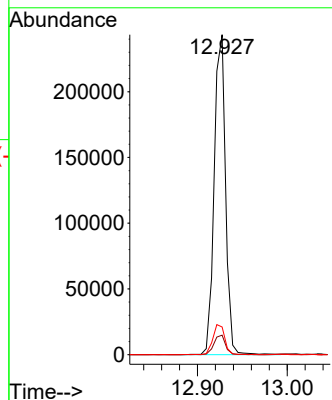
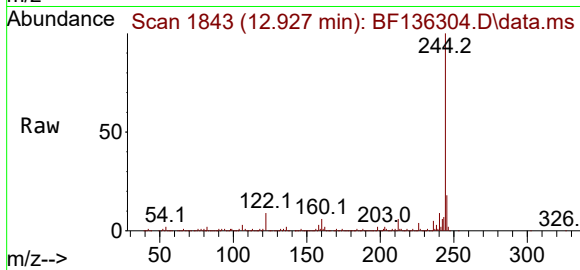
#79
Terphenyl-d14
Concen: 10.820 ng
RT: 12.927 min Scan# 1843
Delta R.T. -0.006 min
Lab File: BF136304.D
Acq: 30 Nov 2023 02:10

Instrument :
BNA_F
ClientSampleId :
TP-ADL

Tgt Ion:244 Resp: 21418
Ion Ratio Lower Upper
244 100
212 6.1 4.6 7.0
122 8.7 7.3 10.9

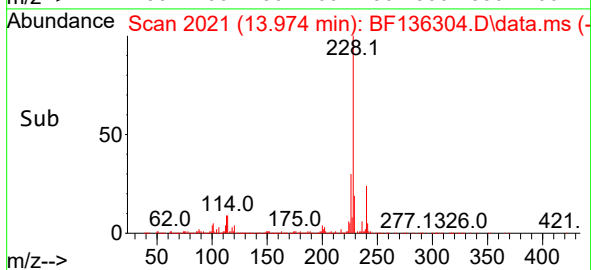
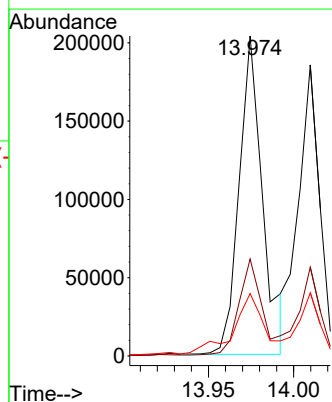
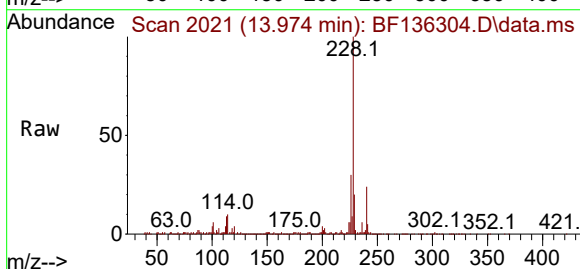
Manual Integrations
APPROVED

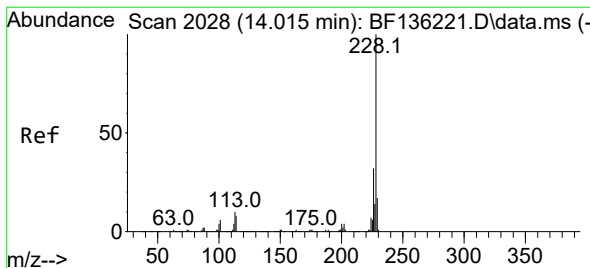
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#81
Benzo(a)anthracene
Concen: 11.484 ng
RT: 13.974 min Scan# 2021
Delta R.T. -0.006 min
Lab File: BF136304.D
Acq: 30 Nov 2023 02:10

Tgt Ion:228 Resp: 194763
Ion Ratio Lower Upper
228 100
226 30.3 22.6 34.0
229 19.5 14.0 21.0





#83

Chrysene

Concen: 9.853 ng m

RT: 14.010 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF136304.D

Acq: 30 Nov 2023 02:10

Instrument :

BNA_F

ClientSampleId :

TP-ADL

Tgt Ion:228 Resp: 161354

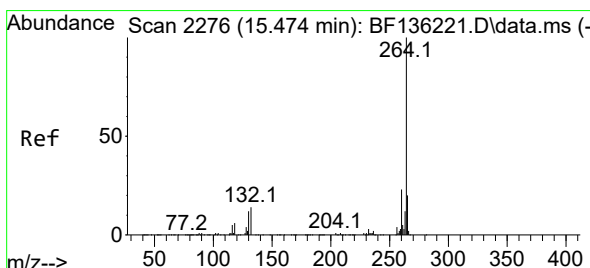
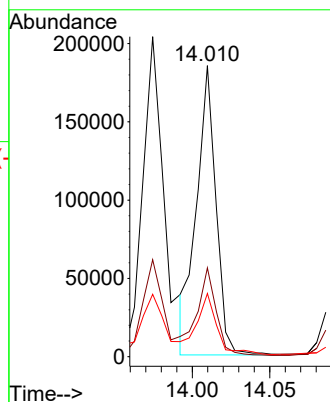
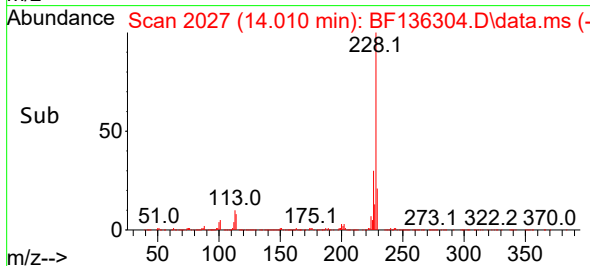
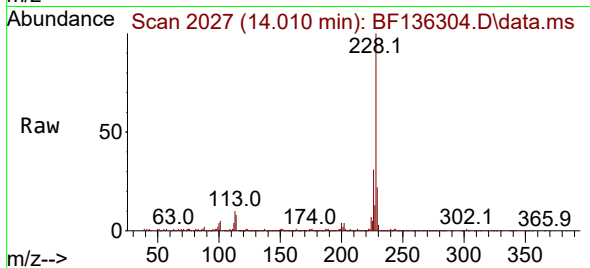
Ion	Ratio	Lower	Upper
228	100		
226	30.5	25.5	38.3
229	21.7	13.9	20.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/30/2023

Supervised By :mohammad ahmed 12/01/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.468 min Scan# 2275

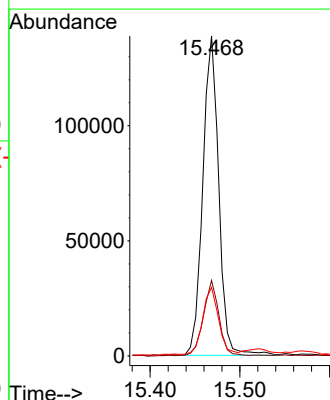
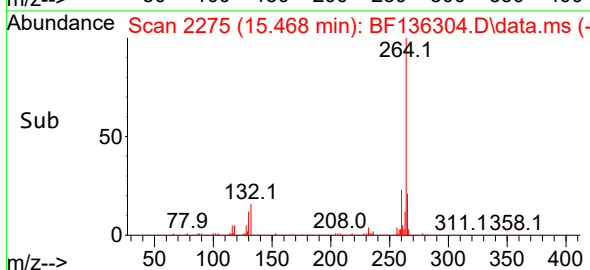
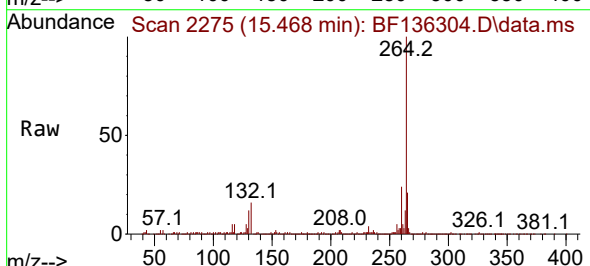
Delta R.T. -0.006 min

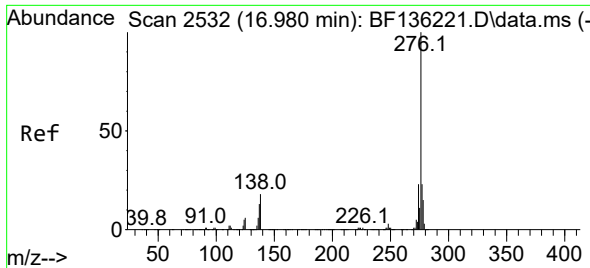
Lab File: BF136304.D

Acq: 30 Nov 2023 02:10

Tgt Ion:264 Resp: 171325

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.6	27.8
265	21.4	15.7	23.5





#87
Indeno(1,2,3-cd)pyrene
Concen: 7.054 ng
RT: 16.968 min Scan# 2532
Delta R.T. -0.012 min
Lab File: BF136304.D
Acq: 30 Nov 2023 02:10

Instrument :

BNA_F

ClientSampleId :

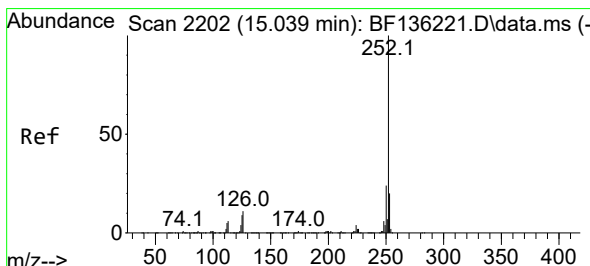
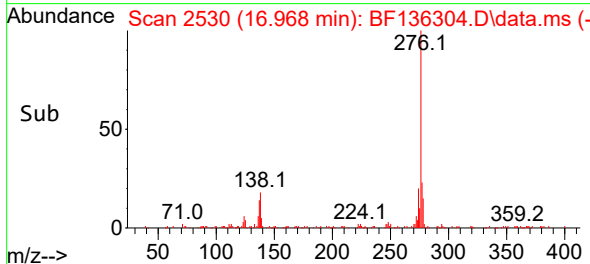
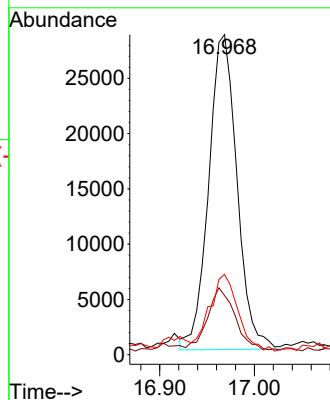
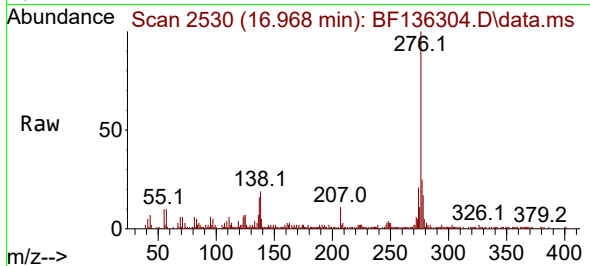
TP-ADL

Tgt Ion:276 Resp: 59339
Ion Ratio Lower Upper
276 100
138 19.7 17.7 26.5
277 24.4 19.6 29.4

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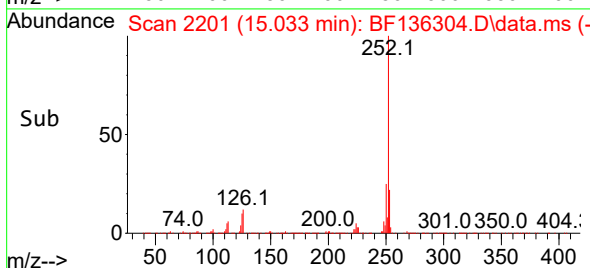
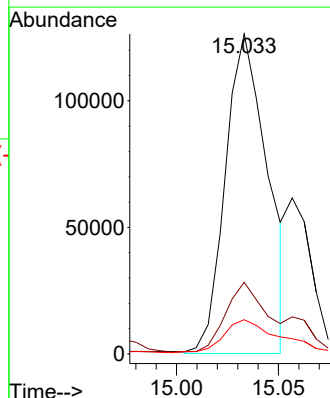
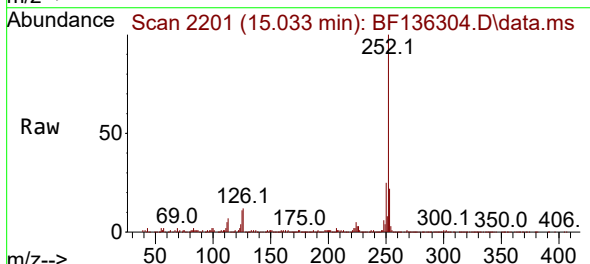
APPROVED

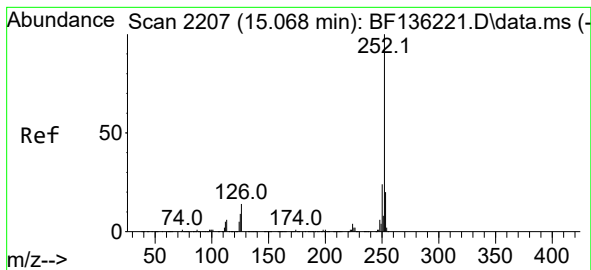
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#88
Benzo(b)fluoranthene
Concen: 15.078 ng m
RT: 15.033 min Scan# 2201
Delta R.T. -0.006 min
Lab File: BF136304.D
Acq: 30 Nov 2023 02:10

Tgt Ion:252 Resp: 181236
Ion Ratio Lower Upper
252 100
253 22.4 16.2 24.2
125 10.7 6.9 10.3#





#89

Benzo(k)fluoranthene

Concen: 4.733 ng m

RT: 15.057 min Scan# 2207

Delta R.T. -0.011 min

Lab File: BF136304.D

Acq: 30 Nov 2023 02:10

Instrument :

BNA_F

ClientSampleId :

TP-ADL

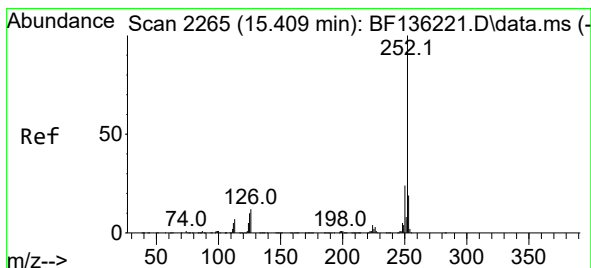
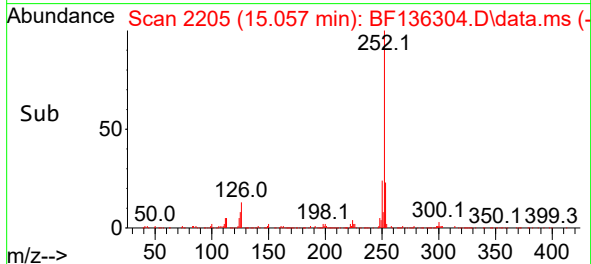
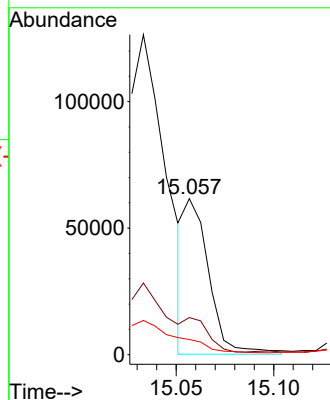
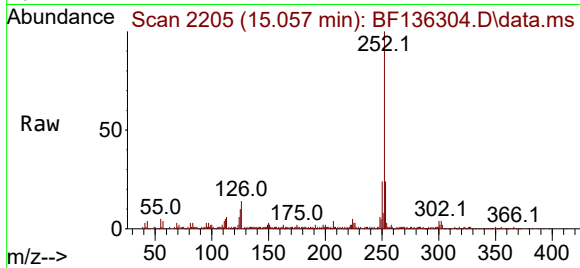
Tgt Ion:252 Resp: 54029
 Ion Ratio Lower Upper
 252 100
 253 23.8 15.6 23.4
 125 9.8 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/30/2023

Supervised By :mohammad ahmed 12/01/2023



#90

Benzo(a)pyrene

Concen: 12.112 ng

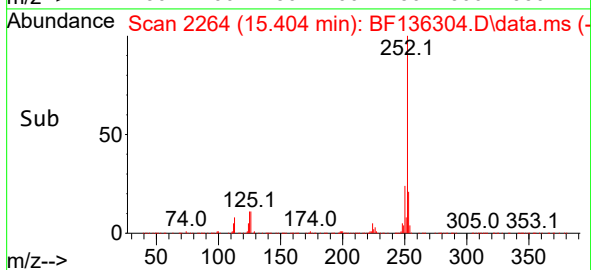
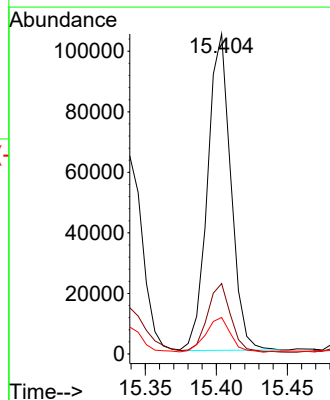
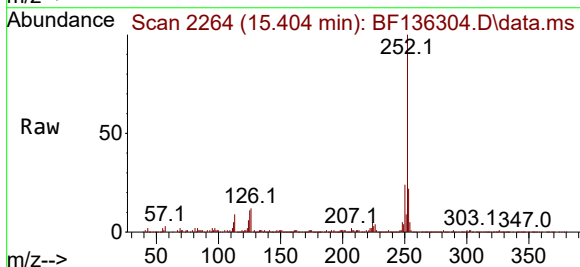
RT: 15.404 min Scan# 2264

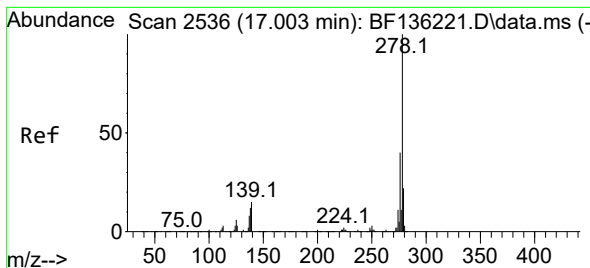
Delta R.T. -0.005 min

Lab File: BF136304.D

Acq: 30 Nov 2023 02:10

Tgt Ion:252 Resp: 119008
 Ion Ratio Lower Upper
 252 100
 253 22.0 15.5 23.3
 125 11.4 7.9 11.9





#91

Dibenzo(a,h)anthracene

Concen: 4.092 ng

RT: 16.980 min Scan# 21

Delta R.T. -0.023 min

Lab File: BF136304.D

Acq: 30 Nov 2023 02:10

Instrument :

BNA_F

ClientSampleId :

TP-ADL

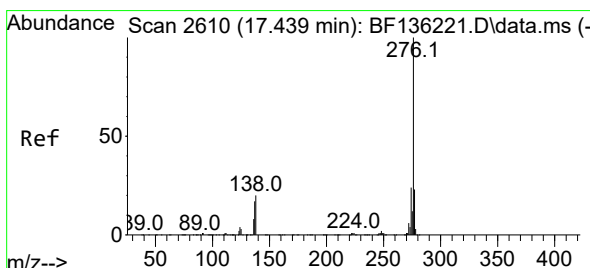
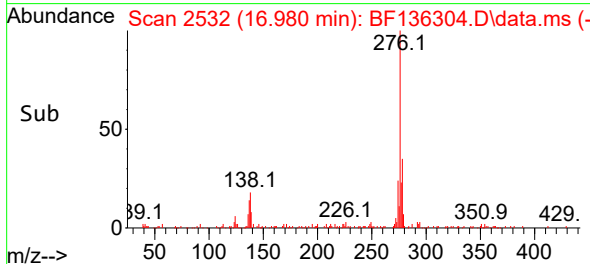
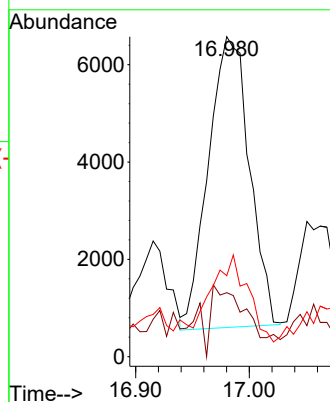
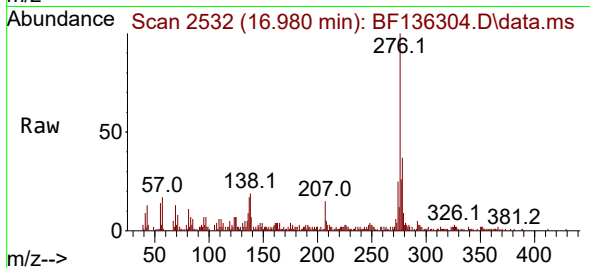
Tgt Ion:	278	Resp:	1501
Ion Ratio	Lower	Upper	
278	100		
139	20.0	11.7	17.5
279	25.3	17.8	26.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/30/2023

Supervised By :mohammad ahmed 12/01/2023



#92

Benzo(g,h,i)perylene

Concen: 7.127 ng

RT: 17.421 min Scan# 2607

Delta R.T. -0.018 min

Lab File: BF136304.D

Acq: 30 Nov 2023 02:10

Tgt Ion:	276	Resp:	56121
Ion Ratio	Lower	Upper	
276	100		
277	27.3	18.6	27.8
138	20.7	15.8	23.8

