

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103023\
 Data File : BF136041.D
 Acq On : 30 Oct 2023 22:04
 Operator : CG\JU
 Sample : 04704-02DL 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 R-1(10-15)DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/31/2023
 Supervised By :mohammad ahmed 10/31/2023

Quant Time: Oct 31 01:42:40 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

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.822	152	163898	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	622938	20.000	ng	0.00
39) Acenaphthene-d10	9.863	164	280080	20.000	ng	0.00
64) Phenanthrene-d10	11.357	188	428823	20.000	ng	0.00
76) Chrysene-d12	14.010	240	327612	20.000	ng	# 0.00
86) Perylene-d12	15.504	264	249873	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.446	112	224963	21.569	ng	0.00
7) Phenol-d6	6.445	99	276288	21.261	ng	-0.01
23) Nitrobenzene-d5	7.381	82	144478	13.981	ng	-0.01
42) 2,4,6-Tribromophenol	10.651	330	52791	17.659	ng	0.00
45) 2-Fluorobiphenyl	9.181	172	293839	16.724	ng	0.00
79) Terphenyl-d14	12.951	244	281046	13.331	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.122	128	221360	7.369	ng	99
37) 2-Methylnaphthalene	8.816	142	73819	3.665	ng	99
38) 1-Methylnaphthalene	8.916	142	91857	4.901	ng	99
52) Acenaphthene	9.892	154	43697	2.799	ng	97
55) Dibenzofuran	10.069	168	53609	2.355	ng	# 95
58) Fluorene	10.410	166	137861	8.090	ng	99
71) Phenanthrene	11.380	178	691348	32.020	ng	99
72) Anthracene	11.428	178	124821	5.642	ng	97
75) Fluoranthene	12.574	202	417252	18.811	ng	99
78) Pyrene	12.804	202	431872	14.952	ng	98
81) Benzo(a)anthracene	14.004	228	151254m	6.974	ng	
83) Chrysene	14.039	228	138291	6.474	ng	97
87) Indeno(1,2,3-cd)pyrene	17.009	276	41457	2.539	ng	# 92
88) Benzo(b)fluoranthene	15.063	252	99418m	6.724	ng	
89) Benzo(k)fluoranthene	15.092	252	40463m	2.766	ng	
90) Benzo(a)pyrene	15.439	252	85810	6.246	ng	96
92) Benzo(g,h,i)perylene	17.468	276	39998	5.363	ng	96

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

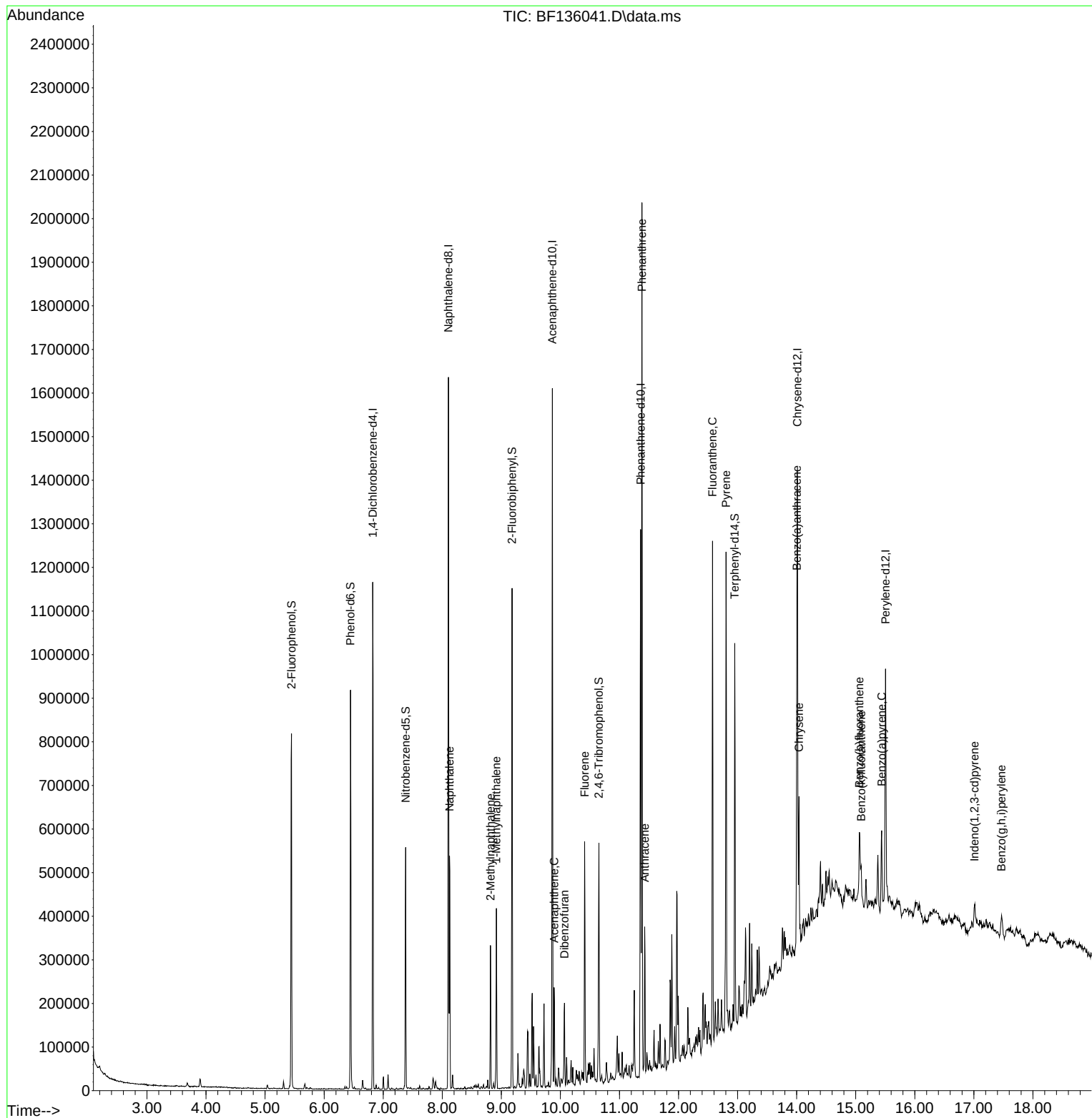
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103023\
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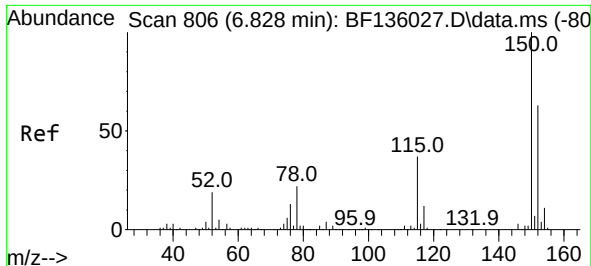
Instrument :
BNA_F
ClientSampleId :
R-1(10-15)DL

Quant Time: Oct 31 01:42:40 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
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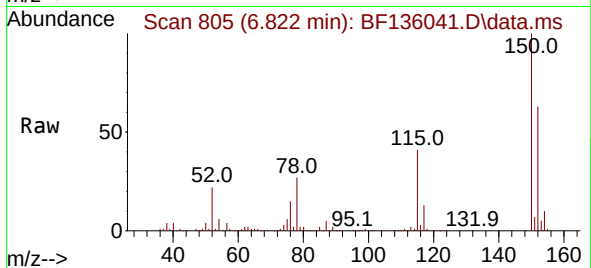
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 806
Delta R.T. -0.006 min
Lab File: BF136041.D
Acq: 30 Oct 2023 22:04

Instrument :

BNA_F

ClientSampleId :

R-1(10-15)DL

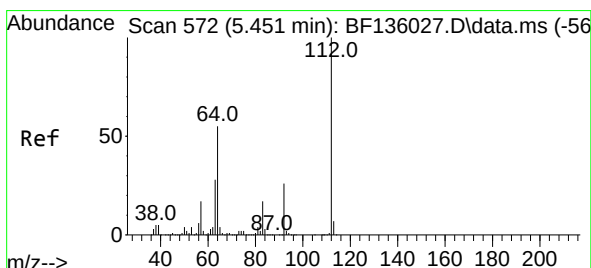
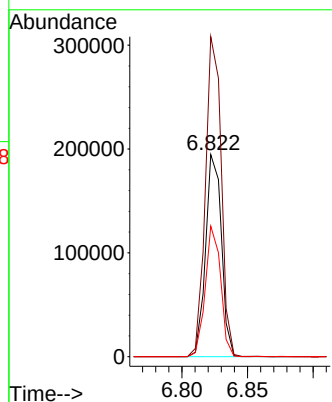
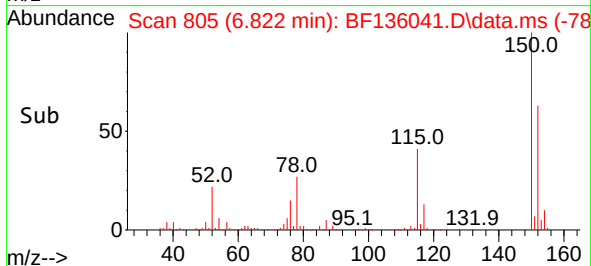


Tgt Ion:152 Resp: 163898
Ion Ratio Lower Upper
152 100
150 158.3 126.4 189.6
115 64.6 47.0 70.4

Manual Integrations

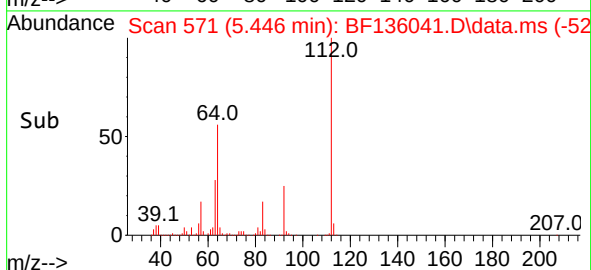
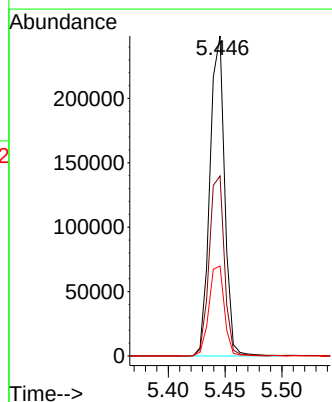
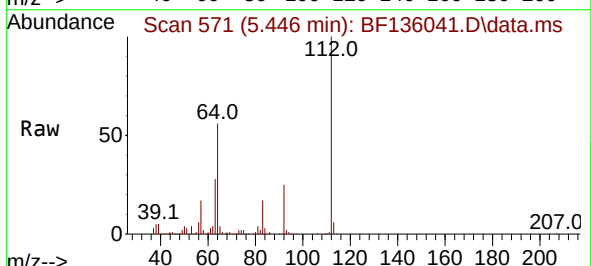
APPROVED

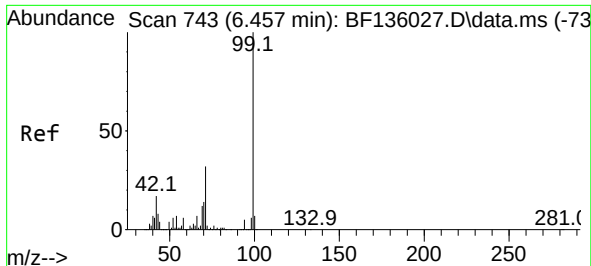
Reviewed By :Yogesh Patel 10/31/2023
Supervised By :mohammad ahmed 10/31/2023



#5
2-Fluorophenol
Concen: 21.569 ng
RT: 5.446 min Scan# 571
Delta R.T. -0.006 min
Lab File: BF136041.D
Acq: 30 Oct 2023 22:04

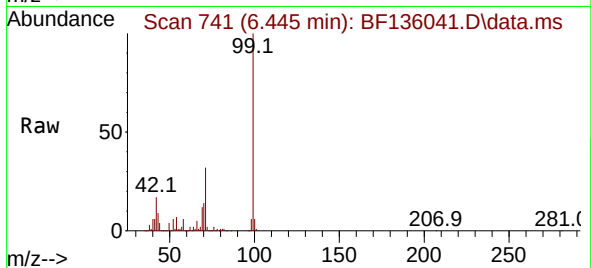
Tgt Ion:112 Resp: 224963
Ion Ratio Lower Upper
112 100
64 56.2 43.9 65.9
63 28.1 22.4 33.6





#7
Phenol-d6
Concen: 21.261 ng
RT: 6.445 min Scan# 743
Delta R.T. -0.012 min
Lab File: BF136041.D
Acq: 30 Oct 2023 22:04

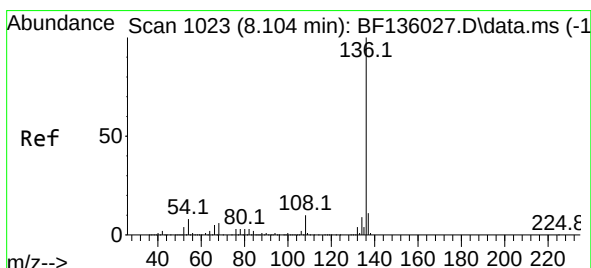
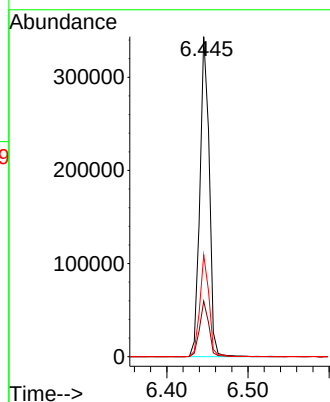
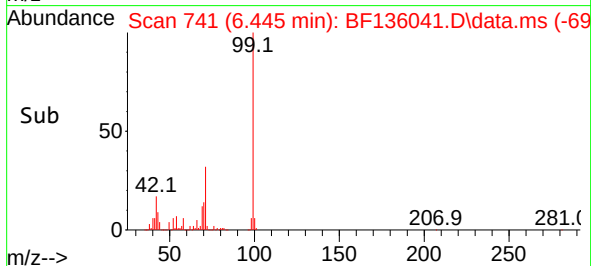
Instrument :
BNA_F
ClientSampleId :
R-1(10-15)DL



Tgt Ion: 99 Resp: 276288
Ion Ratio Lower Upper
99 100
42 17.4 13.7 20.5
71 31.8 25.9 38.9

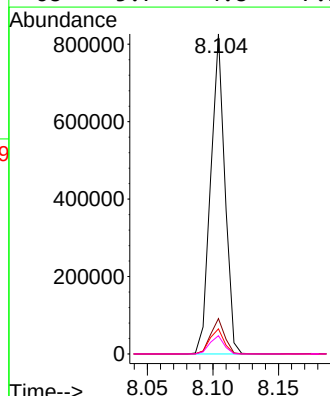
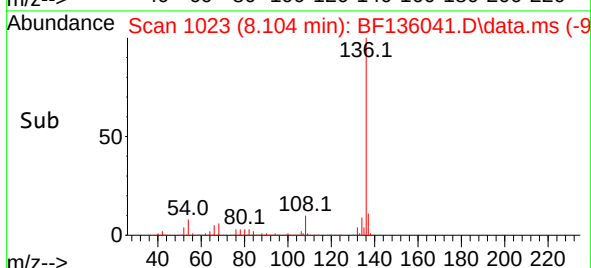
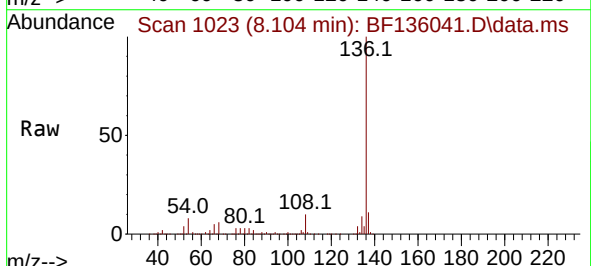
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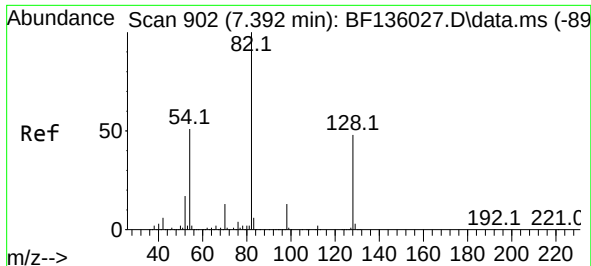
Reviewed By :Yogesh Patel 10/31/2023
Supervised By :mohammad ahmed 10/31/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF136041.D
Acq: 30 Oct 2023 22:04

Tgt Ion:136 Resp: 622938
Ion Ratio Lower Upper
136 100
137 11.1 8.6 13.0
54 7.8 6.6 9.8
68 5.7 4.8 7.2





#23

Nitrobenzene-d5

Concen: 13.981 ng

RT: 7.381 min Scan# 90

Delta R.T. -0.012 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

Instrument :

BNA_F

ClientSampleId :

R-1(10-15)DL

Tgt Ion: 82 Resp: 144478

Ion Ratio Lower Upper

82 100

128 46.4 38.6 57.8

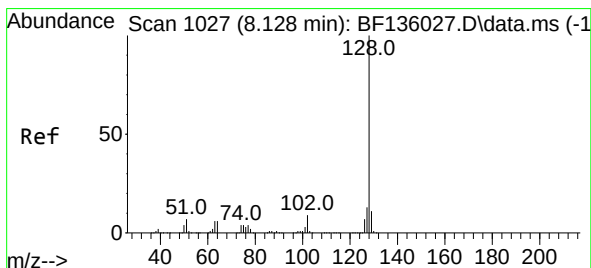
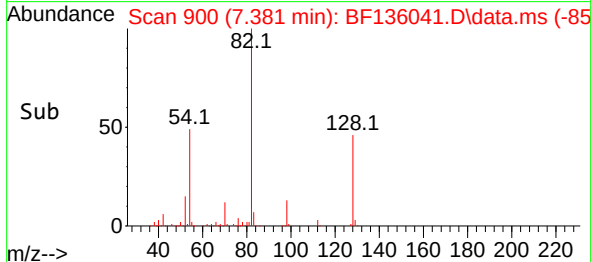
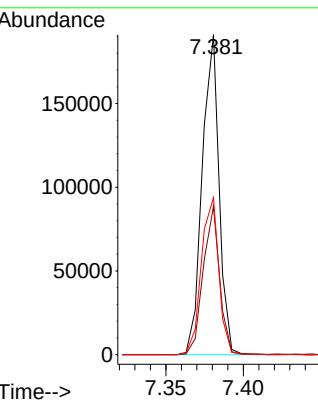
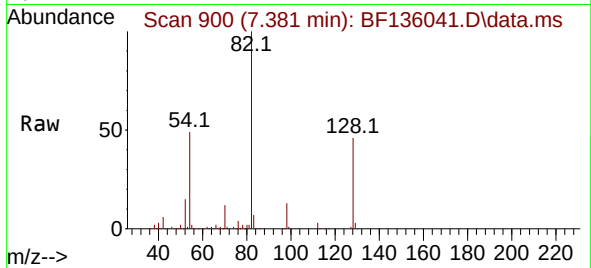
54 49.1 40.8 61.2

Manual Integrations

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Supervised By :mohammad ahmed 10/31/2023



#31

Naphthalene

Concen: 7.369 ng

RT: 8.122 min Scan# 1026

Delta R.T. -0.006 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

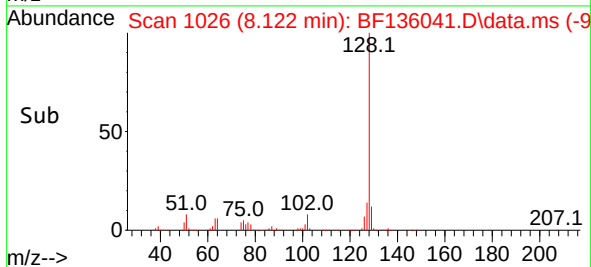
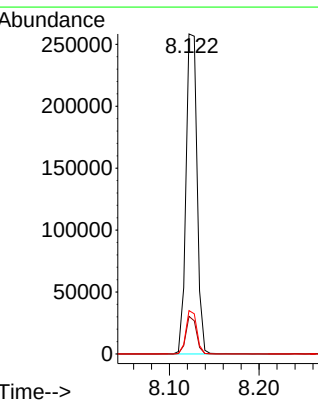
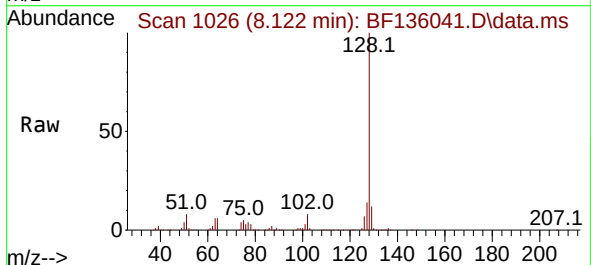
Tgt Ion:128 Resp: 221360

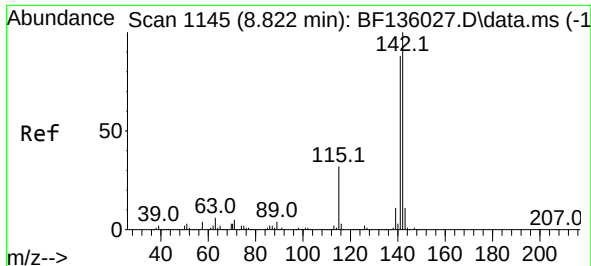
Ion Ratio Lower Upper

128 100

129 11.7 8.9 13.3

127 13.5 10.5 15.7





#37

2-Methylnaphthalene

Concen: 3.665 ng

RT: 8.816 min Scan# 1144

Delta R.T. -0.006 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

Instrument :

BNA_F

ClientSampleId :

R-1(10-15)DL

Tgt Ion:142 Resp: 73819

Ion Ratio Lower Upper

142 100

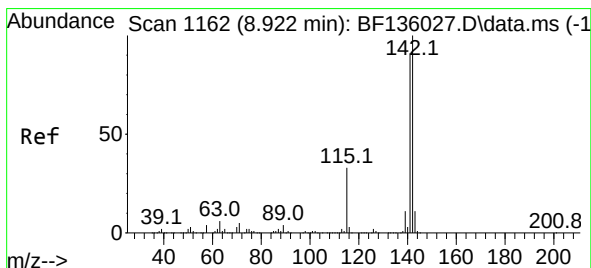
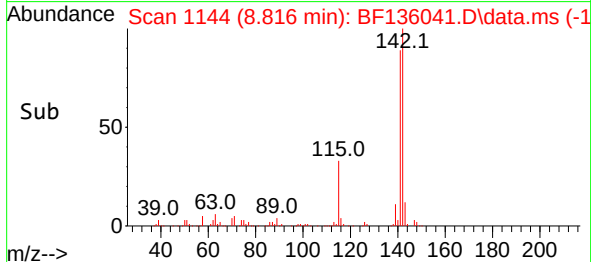
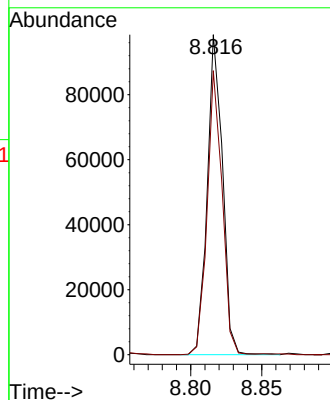
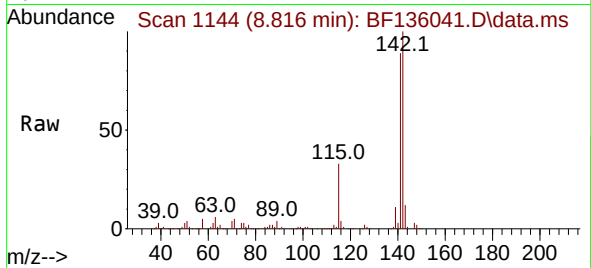
141 88.8 70.4 105.6

Manual Integrations

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Supervised By :mohammad ahmed 10/31/2023



#38

1-Methylnaphthalene

Concen: 4.901 ng

RT: 8.916 min Scan# 1161

Delta R.T. -0.006 min

Lab File: BF136041.D

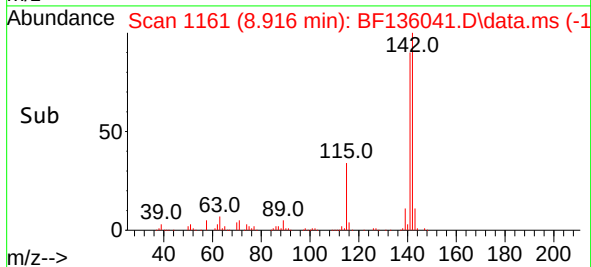
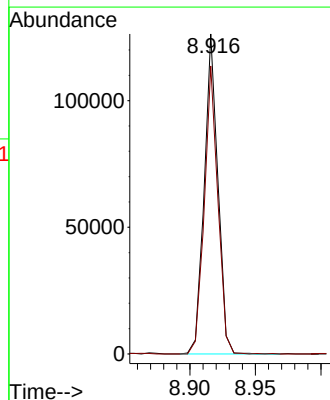
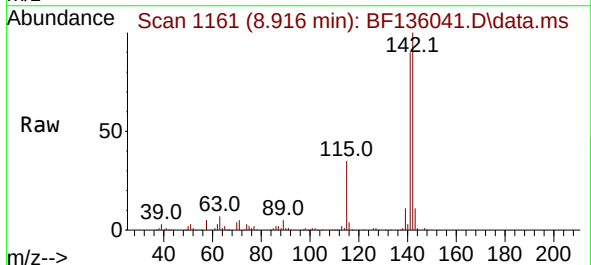
Acq: 30 Oct 2023 22:04

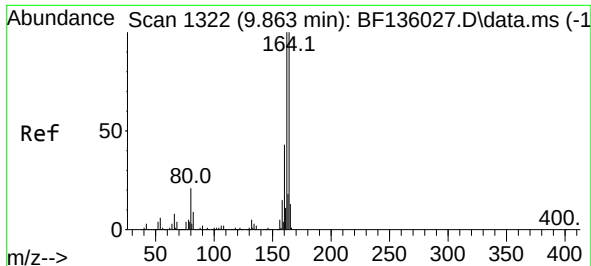
Tgt Ion:142 Resp: 91857

Ion Ratio Lower Upper

142 100

141 90.0 72.6 109.0





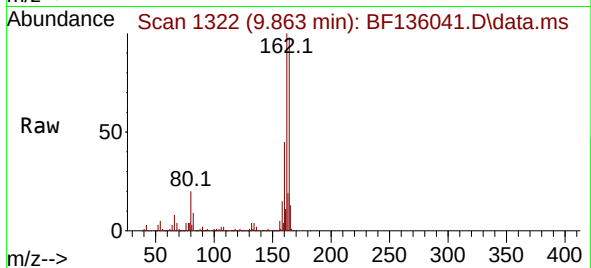
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF136041.D
Acq: 30 Oct 2023 22:04

Instrument :

BNA_F

ClientSampleId :

R-1(10-15)DL



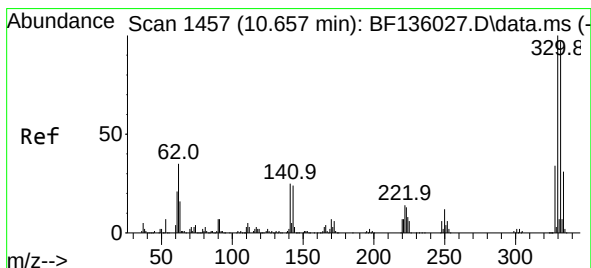
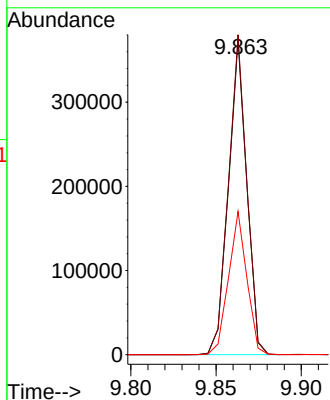
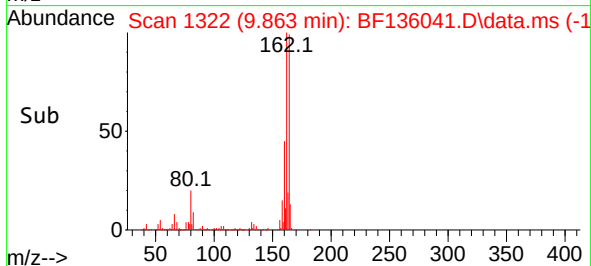
Tgt Ion:164 Resp: 280080
Ion Ratio Lower Upper
164 100
162 101.7 80.1 120.1
160 45.5 34.8 52.2

Manual Integrations

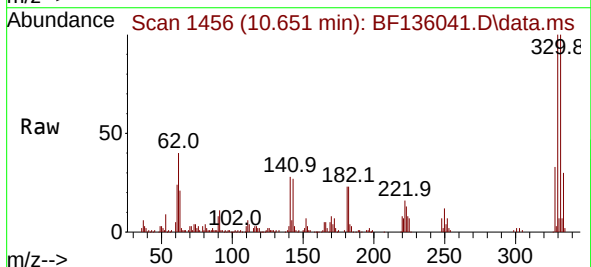
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Reviewed By :Yogesh Patel 10/31/2023

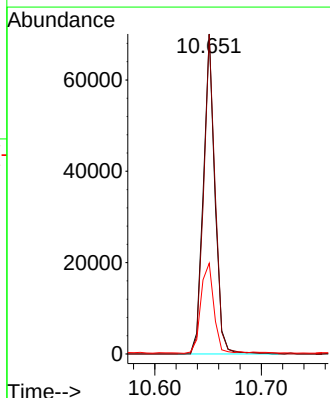
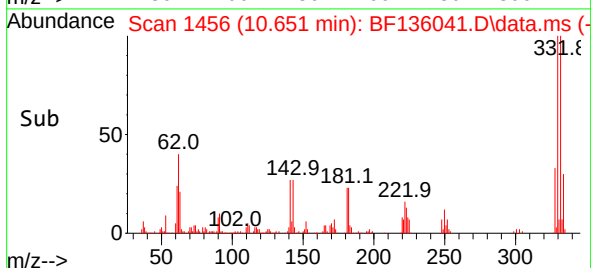
Supervised By :mohammad ahmed 10/31/2023

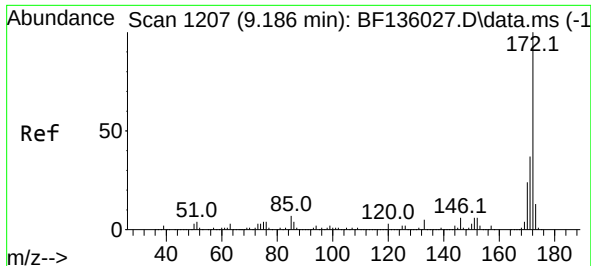


#42
2,4,6-Tribromophenol
Concen: 17.659 ng
RT: 10.651 min Scan# 1456
Delta R.T. -0.006 min
Lab File: BF136041.D
Acq: 30 Oct 2023 22:04



Tgt Ion:330 Resp: 52791
Ion Ratio Lower Upper
330 100
332 98.9 76.9 115.3
141 31.6 23.2 34.8





#45
2-Fluorobiphenyl
Concen: 16.724 ng
RT: 9.181 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136041.D
Acq: 30 Oct 2023 22:04

Instrument :

BNA_F

ClientSampleId :

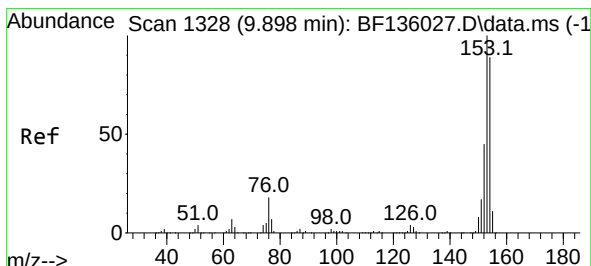
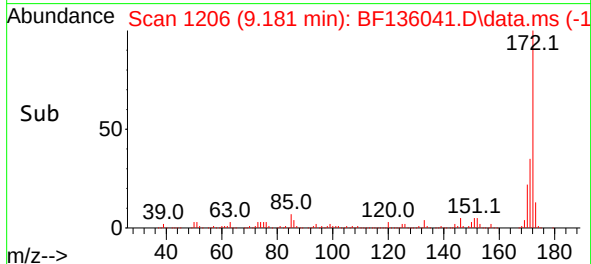
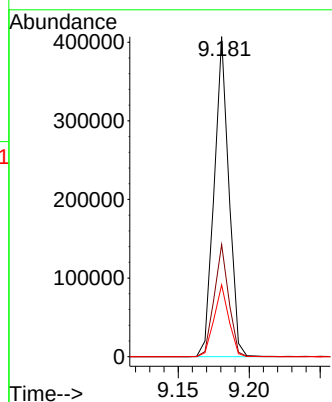
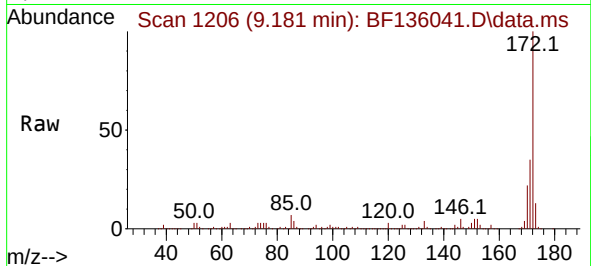
R-1(10-15)DL

Tgt Ion:172 Resp: 293839
Ion Ratio Lower Upper
172 100
171 35.1 29.4 44.0
170 22.5 19.3 28.9

Manual Integrations

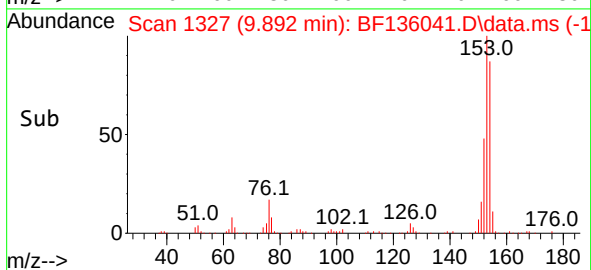
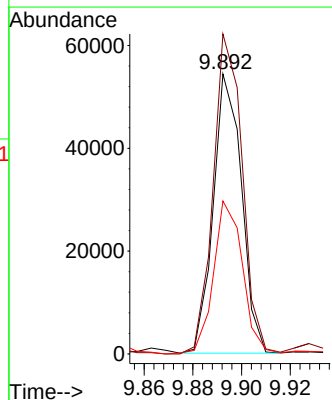
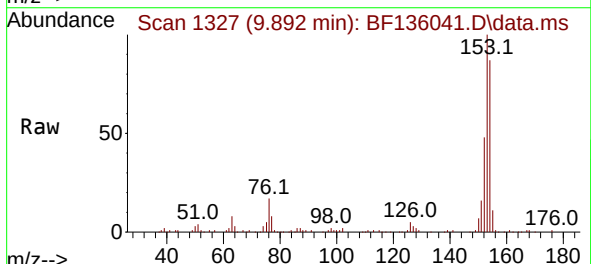
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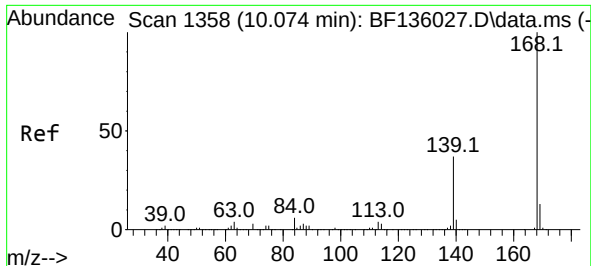
Reviewed By :Yogesh Patel 10/31/2023
Supervised By :mohammad ahmed 10/31/2023



#52
Acenaphthene
Concen: 2.799 ng
RT: 9.892 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF136041.D
Acq: 30 Oct 2023 22:04

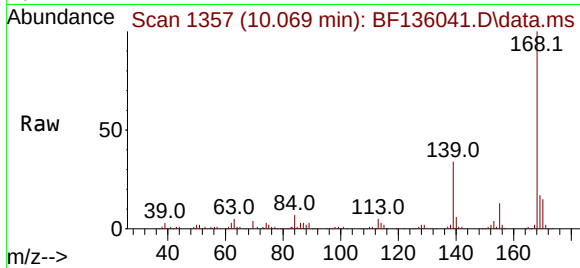
Tgt Ion:154 Resp: 43697
Ion Ratio Lower Upper
154 100
153 114.3 89.9 134.9
152 54.7 40.2 60.2





#55
Dibenzenofuran
Concen: 2.355 ng
RT: 10.069 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136041.D
Acq: 30 Oct 2023 22:04

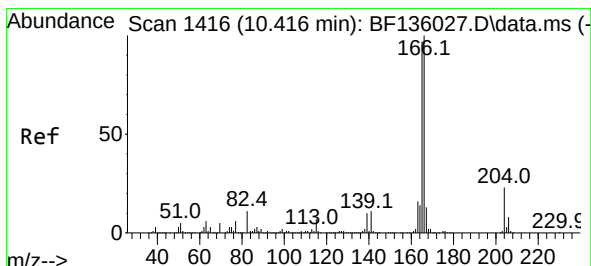
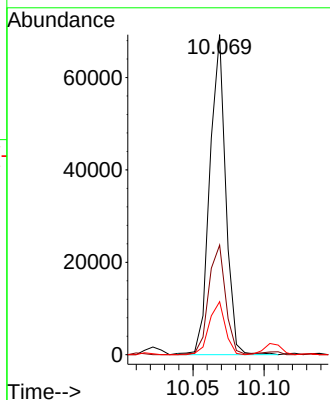
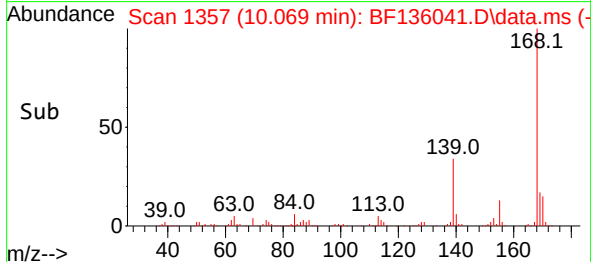
Instrument :
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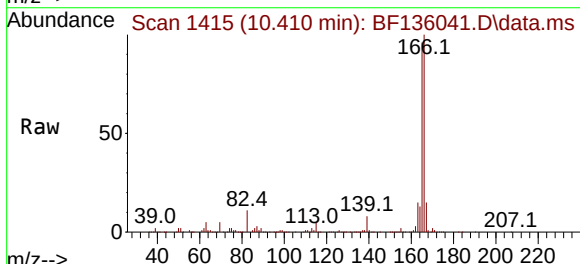
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Ion Ratio Lower Upper
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139 34.2 29.4 44.0
169 16.5 10.5 15.7

Manual Integrations
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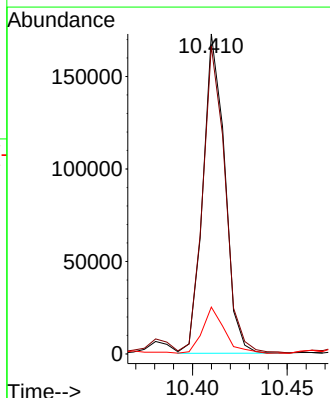
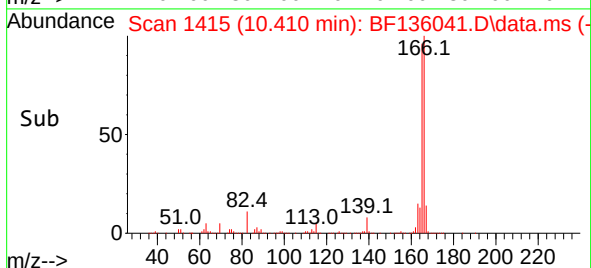
Reviewed By :Yogesh Patel 10/31/2023
Supervised By :mohammad ahmed 10/31/2023

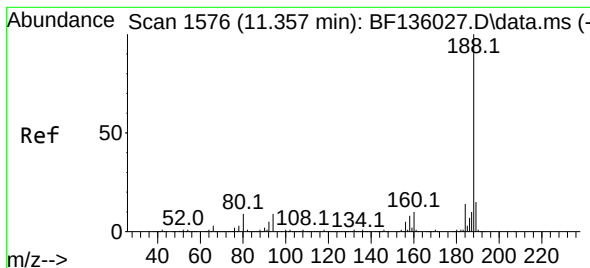


#58
Fluorene
Concen: 8.090 ng
RT: 10.410 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF136041.D
Acq: 30 Oct 2023 22:04



Tgt Ion:166 Resp: 137861
Ion Ratio Lower Upper
166 100
165 96.2 77.7 116.5
167 14.7 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: BF136041.D
Acq: 30 Oct 2023 22:04

Instrument :

BNA_F

ClientSampleId :

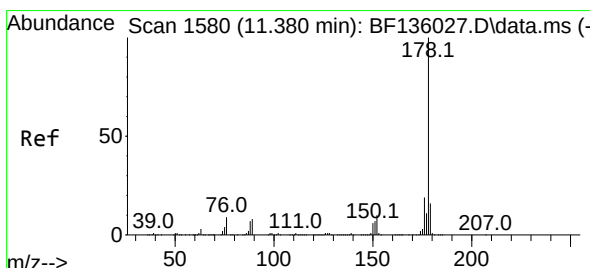
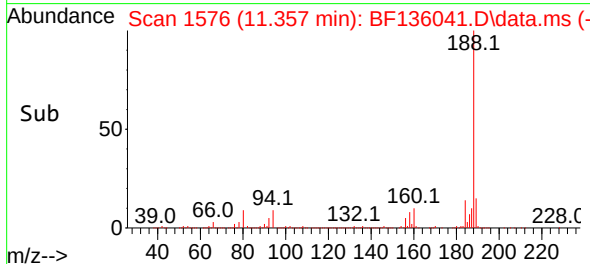
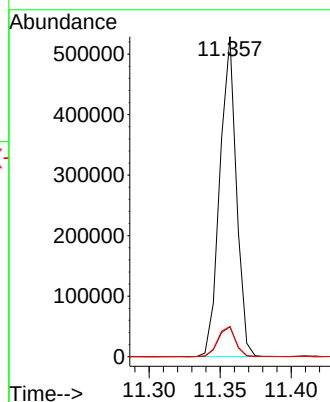
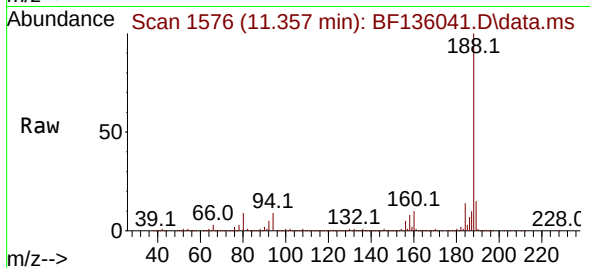
R-1(10-15)DL

Tgt Ion:188 Resp: 428823
Ion Ratio Lower Upper
188 100
94 9.4 7.2 10.8
80 9.4 7.4 11.0

Manual Integrations

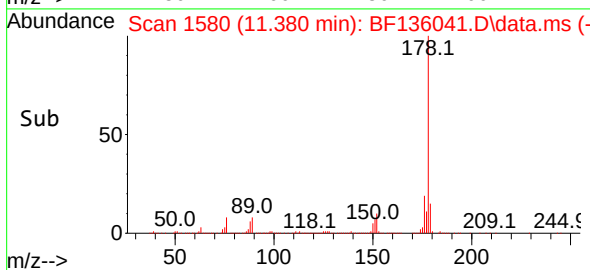
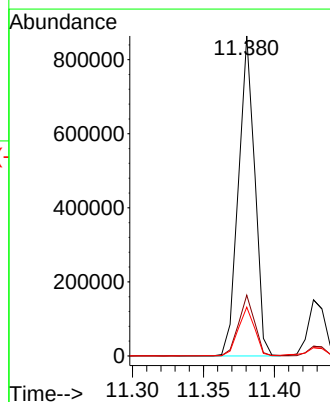
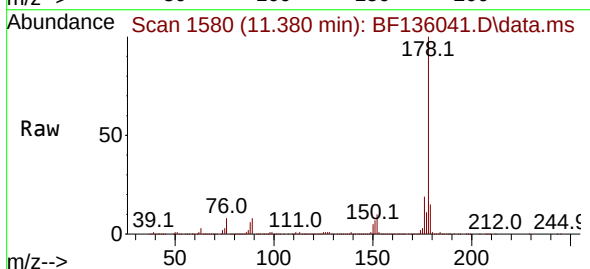
APPROVED

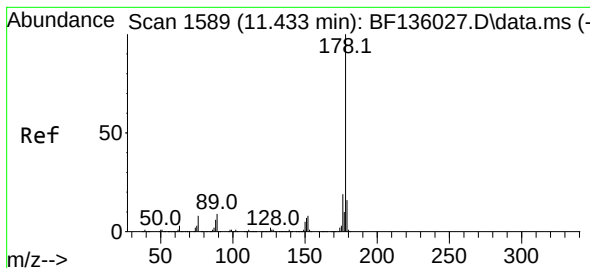
Reviewed By :Yogesh Patel 10/31/2023
Supervised By :mohammad ahmed 10/31/2023



#71
Phenanthrene
Concen: 32.020 ng
RT: 11.380 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BF136041.D
Acq: 30 Oct 2023 22:04

Tgt Ion:178 Resp: 691348
Ion Ratio Lower Upper
178 100
176 19.0 15.5 23.3
179 15.3 12.9 19.3





#72

Anthracene

Concen: 5.642 ng

RT: 11.428 min Scan# 1588

Delta R.T. -0.006 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

Instrument :

BNA_F

ClientSampleId :

R-1(10-15)DL

Tgt Ion:178 Resp: 12482

Ion Ratio Lower Upper

178 100

176 17.4 15.0 22.4

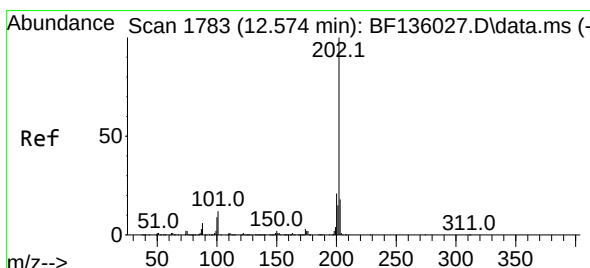
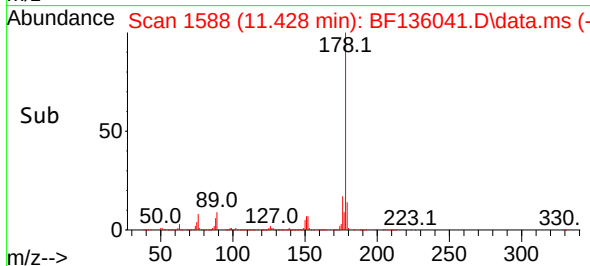
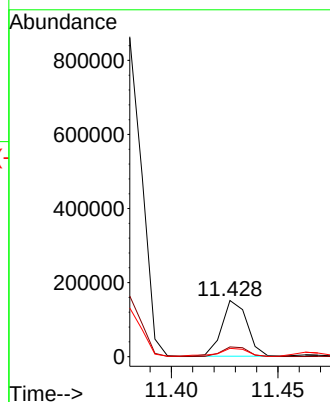
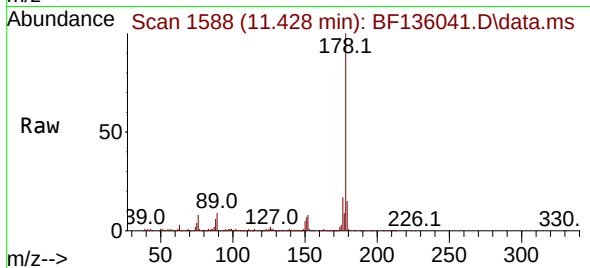
179 14.8 12.6 18.8

Manual Integrations

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Reviewed By :Yogesh Patel 10/31/2023

Supervised By :mohammad ahmed 10/31/2023



#75

Fluoranthene

Concen: 18.811 ng

RT: 12.574 min Scan# 1783

Delta R.T. 0.000 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

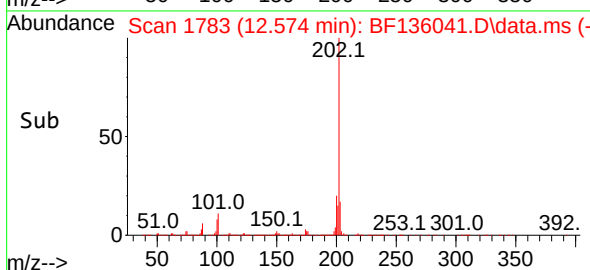
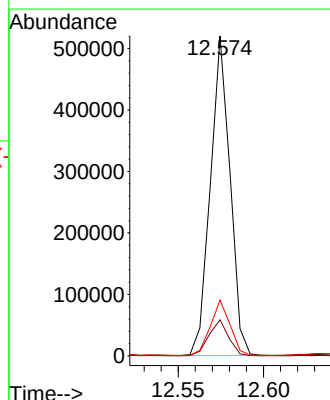
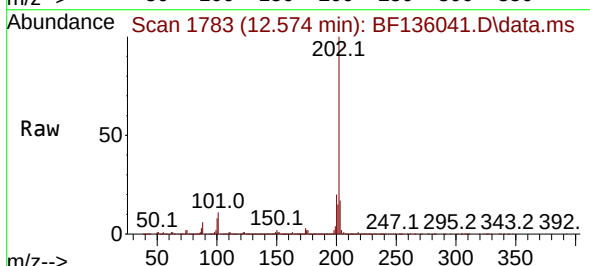
Tgt Ion:202 Resp: 417252

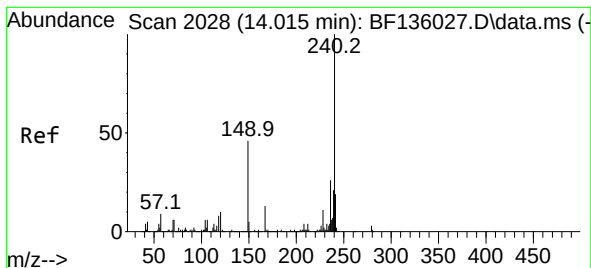
Ion Ratio Lower Upper

202 100

101 11.3 0.0 31.8

203 17.5 0.0 37.9





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.010 min Scan# 2028

Delta R.T. -0.006 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

Instrument :

BNA_F

ClientSampleId :

R-1(10-15)DL

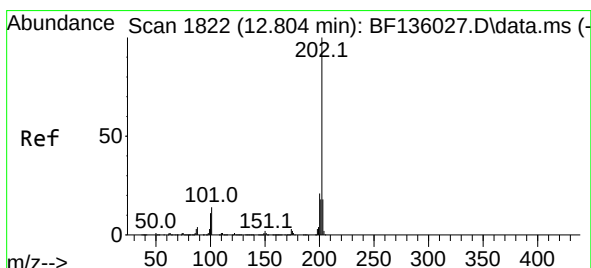
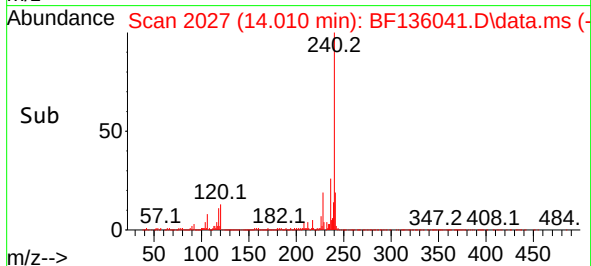
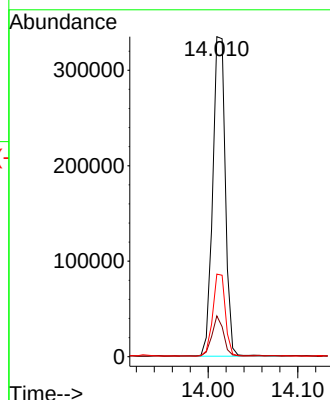
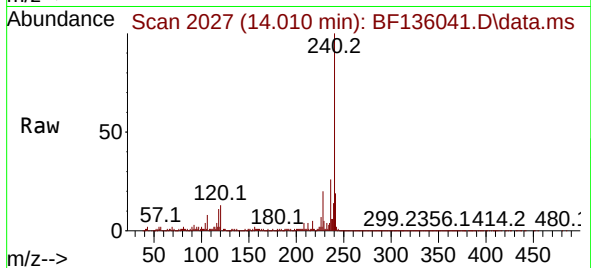
Tgt Ion:240 Resp: 327612
 Ion Ratio Lower Upper
 240 100
 120 12.7 7.6 11.4
 236 25.8 20.6 31.0

Manual Integrations

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Reviewed By :Yogesh Patel 10/31/2023

Supervised By :mohammad ahmed 10/31/2023



#78

Pyrene

Concen: 14.952 ng

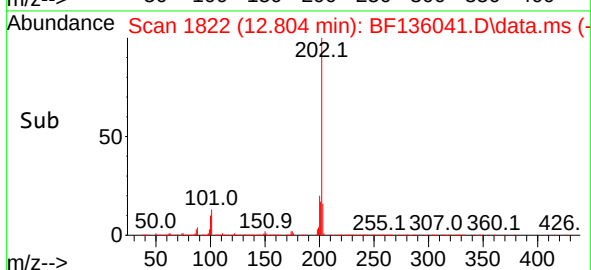
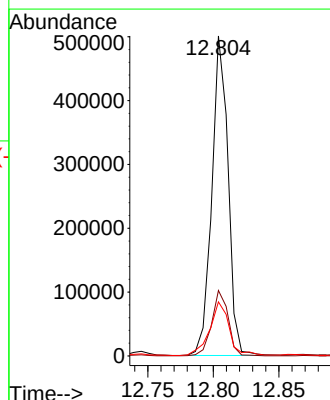
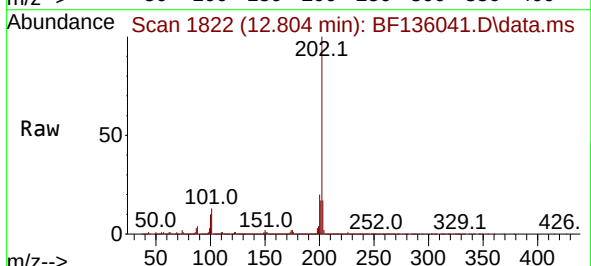
RT: 12.804 min Scan# 1822

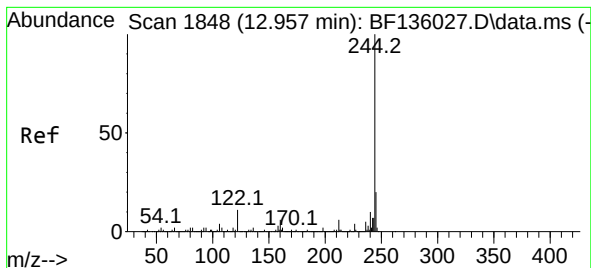
Delta R.T. 0.000 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

Tgt Ion:202 Resp: 431872
 Ion Ratio Lower Upper
 202 100
 200 20.5 17.0 25.4
 203 16.9 14.4 21.6





#79

Terphenyl-d14

Concen: 13.331 ng

RT: 12.951 min Scan# 1847

Delta R.T. -0.006 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

Instrument :

BNA_F

ClientSampleId :

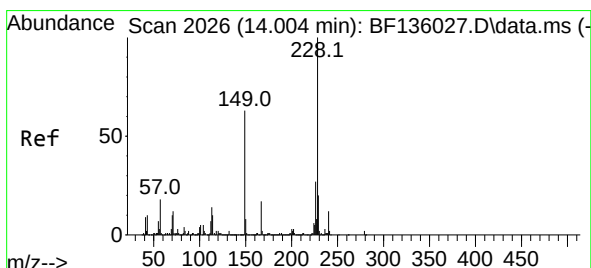
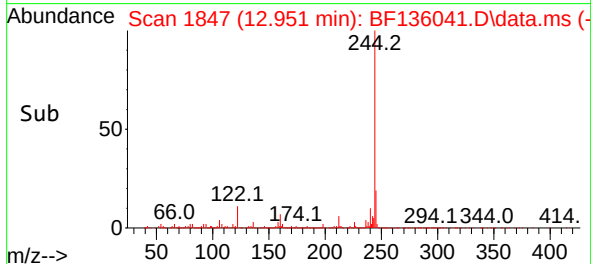
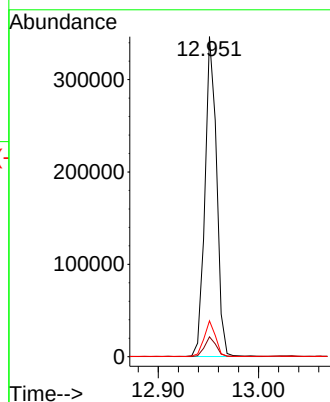
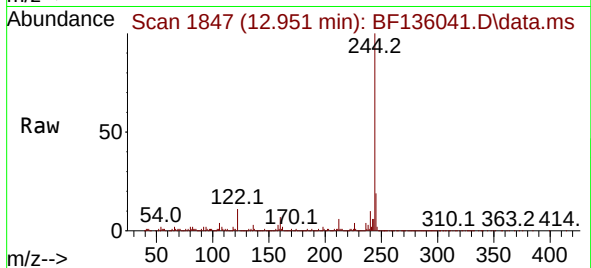
R-1(10-15)DL

Tgt Ion:244 Resp: 281040
 Ion Ratio Lower Upper
 244 100
 212 6.2 5.1 7.7
 122 11.2 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/31/2023
 Supervised By :mohammad ahmed 10/31/2023



#81

Benzo(a)anthracene

Concen: 6.974 ng m

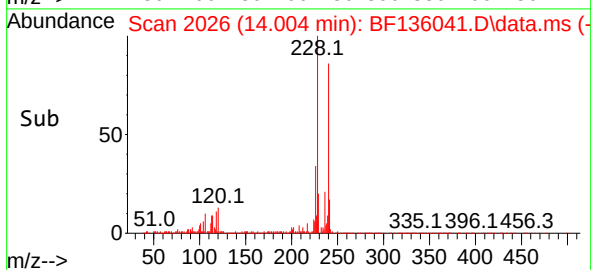
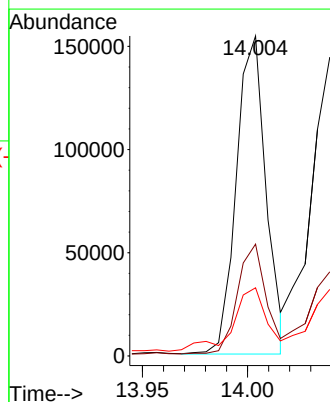
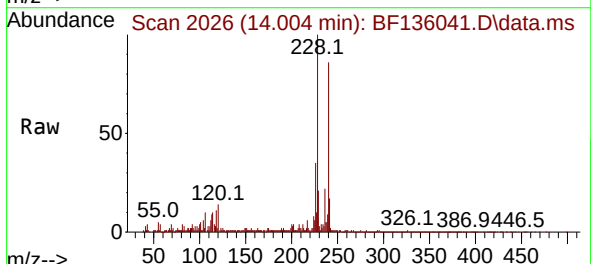
RT: 14.004 min Scan# 2026

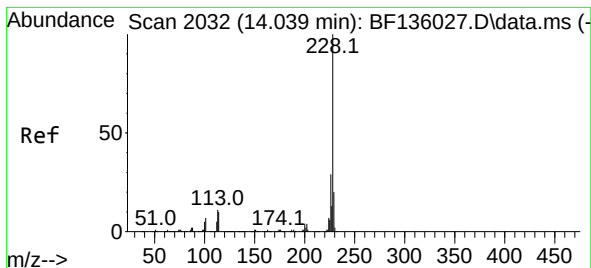
Delta R.T. 0.000 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

Tgt Ion:228 Resp: 151254
 Ion Ratio Lower Upper
 228 100
 226 34.9 21.5 32.3#
 229 21.3 15.8 23.6





#83

Chrysene

Concen: 6.474 ng

RT: 14.039 min Scan# 2032

Delta R.T. 0.000 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

Instrument :

BNA_F

ClientSampleId :

R-1(10-15)DL

Tgt Ion:228 Resp: 13829

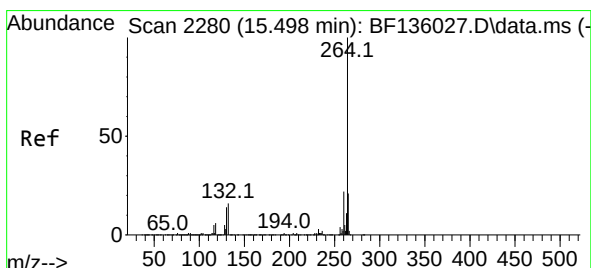
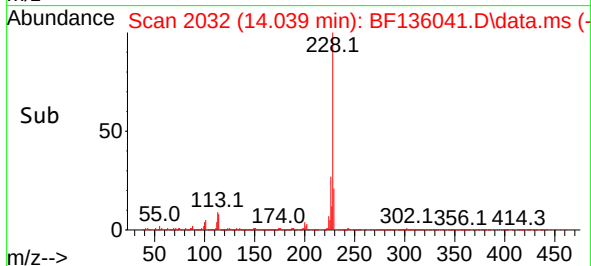
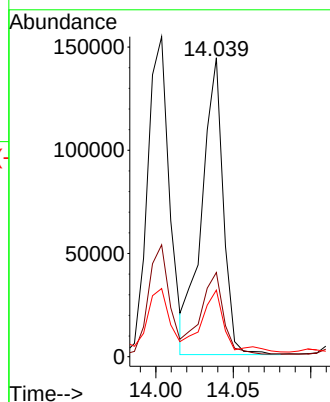
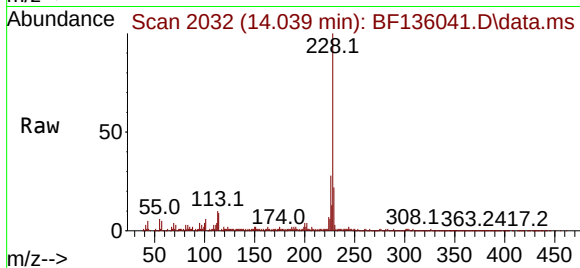
Ion	Ratio	Lower	Upper
228	100		
226	28.1	23.5	35.3
229	22.3	16.0	24.0

Manual Integrations

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Reviewed By :Yogesh Patel 10/31/2023

Supervised By :mohammad ahmed 10/31/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.504 min Scan# 2281

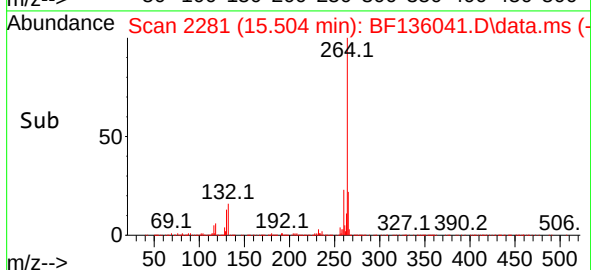
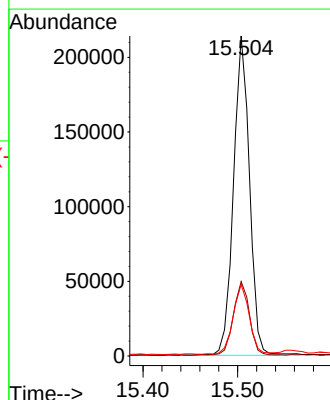
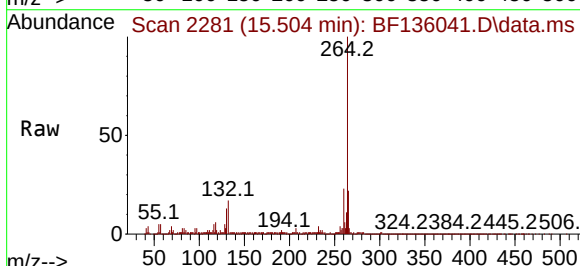
Delta R.T. 0.006 min

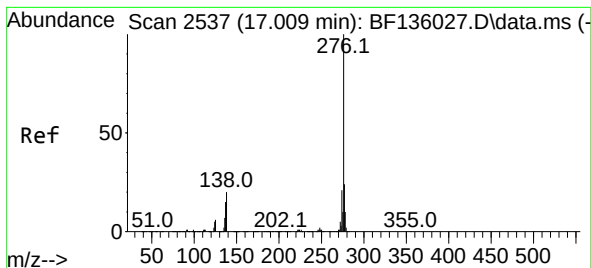
Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

Tgt Ion:264 Resp: 249873

Ion	Ratio	Lower	Upper
264	100		
260	23.3	17.9	26.9
265	22.3	16.8	25.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.539 ng

RT: 17.009 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

Instrument :

BNA_F

ClientSampleId :

R-1(10-15)DL

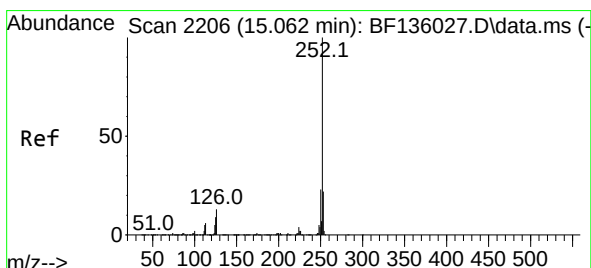
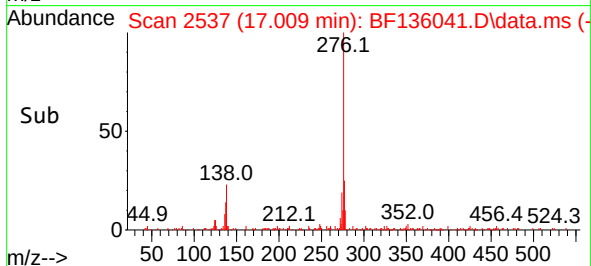
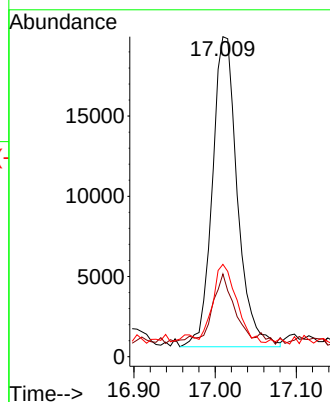
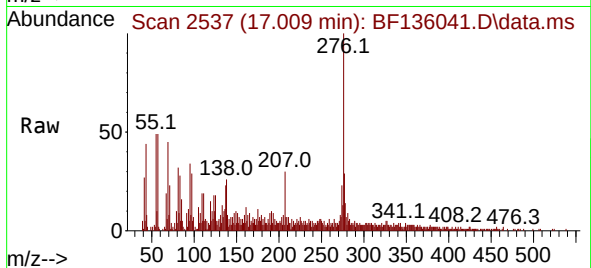
Tgt Ion:	276	Resp:	4145
Ion Ratio	Lower	Upper	
276	100		
138	18.6	20.4	30.6
277	23.7	20.2	30.2

Manual Integrations

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Reviewed By :Yogesh Patel 10/31/2023

Supervised By :mohammad ahmed 10/31/2023



#88

Benzo(b)fluoranthene

Concen: 6.724 ng m

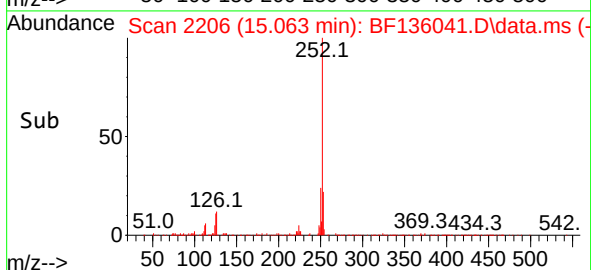
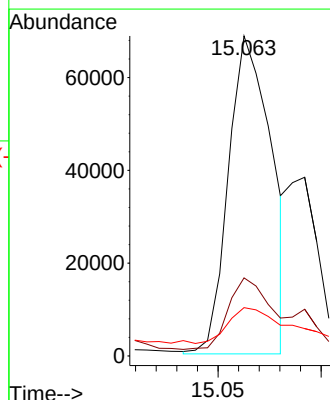
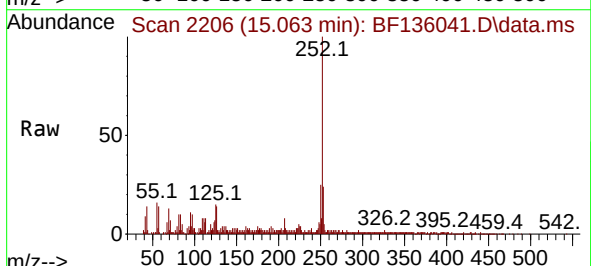
RT: 15.063 min Scan# 2206

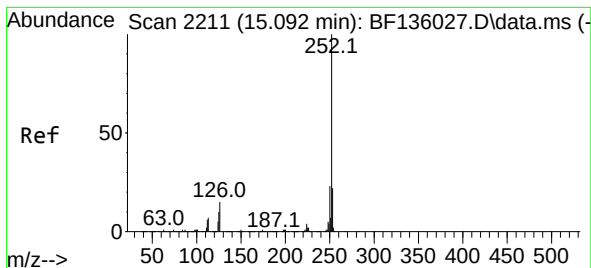
Delta R.T. 0.000 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

Tgt Ion:	252	Resp:	99418
Ion Ratio	Lower	Upper	
252	100		
253	24.4	17.7	26.5
125	15.1	7.5	11.3





#89

Benzo(k)fluoranthene

Concen: 2.766 ng m

RT: 15.092 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

Instrument :

BNF

ClientSampleId :

R-1(10-15)DL

Tgt Ion:252 Resp: 4046

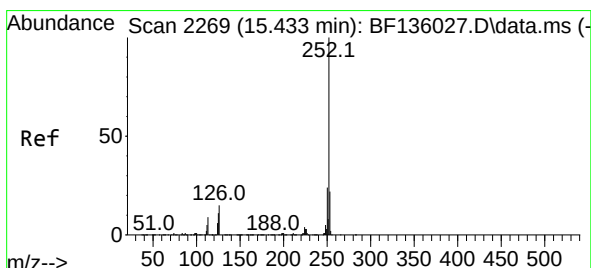
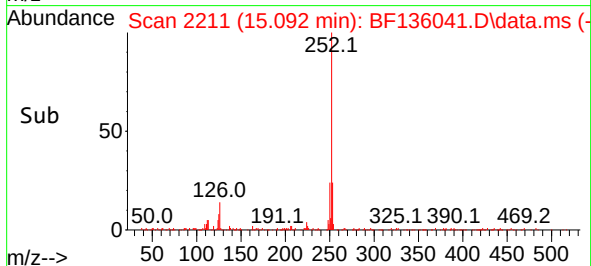
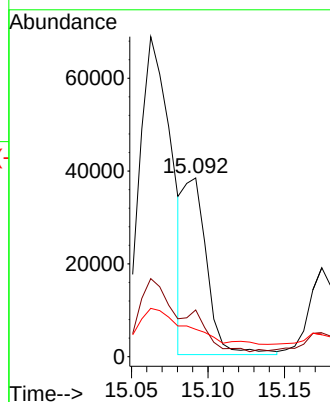
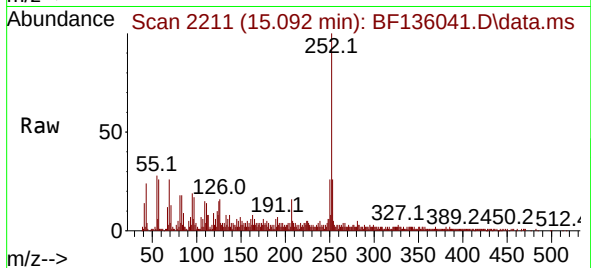
Ion	Ratio	Lower	Upper
252	100		
253	26.1	17.4	26.0
125	15.4	8.0	12.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/31/2023

Supervised By :mohammad ahmed 10/31/2023



#90

Benzo(a)pyrene

Concen: 6.246 ng

RT: 15.439 min Scan# 2270

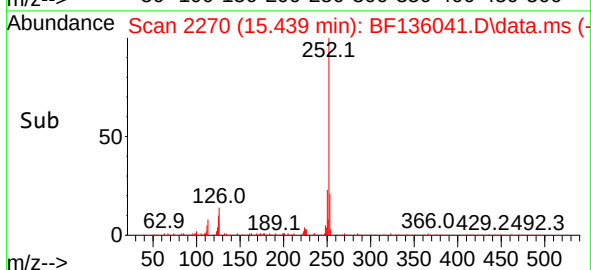
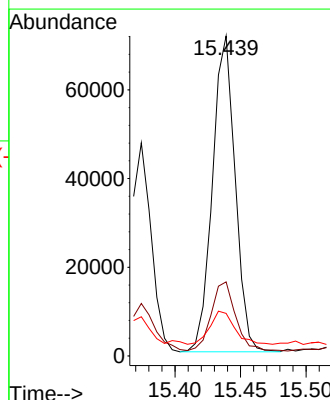
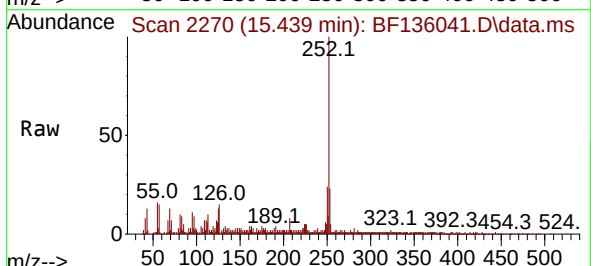
Delta R.T. 0.006 min

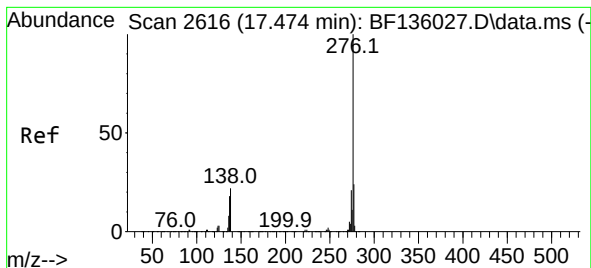
Lab File: BF136041.D

Acq: 30 Oct 2023 22:04

Tgt Ion:252 Resp: 85810

Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.3	25.9
125	13.3	9.0	13.6





#92

Benzo(g,h,i)perylene

Concen: 5.363 ng

RT: 17.468 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF136041.D

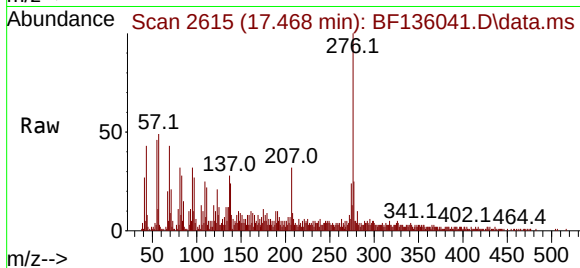
Acq: 30 Oct 2023 22:04

Instrument :

BNA_F

ClientSampleId :

R-1(10-15)DL



Tgt Ion:	276	Resp:	39998
Ion Ratio	Lower	Upper	
276	100		
277	25.1	19.0	28.4
138	24.2	17.4	26.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/31/2023

Supervised By :mohammad ahmed 10/31/2023

