

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103023\
 Data File : BF136038.D
 Acq On : 30 Oct 2023 20:33
 Operator : CG\JU
 Sample : 05073-01 2X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-102523

Manual Integrations
 APPROVED

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

Quant Time: Oct 31 01:41:51 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	169723	20.000	ng	0.00
21) Naphthalene-d8	8.098	136	644736	20.000	ng	0.00
39) Acenaphthene-d10	9.857	164	308856	20.000	ng	0.00
64) Phenanthrene-d10	11.351	188	464985	20.000	ng	# 0.00
76) Chrysene-d12	14.016	240	337383	20.000	ng	# 0.00
86) Perylene-d12	15.504	264	267287	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.446	112	468021	43.333	ng	0.00
7) Phenol-d6	6.446	99	584590	43.441	ng	-0.01
23) Nitrobenzene-d5	7.381	82	335786	31.396	ng	-0.01
42) 2,4,6-Tribromophenol	10.651	330	131116	39.772	ng	0.00
45) 2-Fluorobiphenyl	9.181	172	656870	33.903	ng	0.00
79) Terphenyl-d14	12.951	244	584483	26.922	ng	0.00
Target Compounds						Qvalue
37) 2-Methylnaphthalene	8.816	142	78648	3.773	ng	98
38) 1-Methylnaphthalene	8.916	142	71359	3.678	ng	99
52) Acenaphthene	9.892	154	240925	13.996	ng	98
55) Dibenzofuran	10.063	168	317386	12.645	ng	96
58) Fluorene	10.410	166	342915	18.247	ng	97
71) Phenanthrene	11.386	178	2516214	107.475	ng	99
72) Anthracene	11.433	178	1005993	41.933	ng	100
73) Carbazole	11.580	167	100013	4.797	ng	98
75) Fluoranthene	12.586	202	3116329	129.569	ng	99
78) Pyrene	12.816	202	2846418	95.693	ng	99
81) Benzo(a)anthracene	14.004	228	1581118	70.789	ng	97
83) Chrysene	14.045	228	1298325	59.024	ng	98
87) Indeno(1,2,3-cd)pyrene	17.015	276	454274	26.005	ng	95
88) Benzo(b)fluoranthene	15.074	252	1198103m	75.753	ng	
89) Benzo(k)fluoranthene	15.098	252	462152m	29.533	ng	
90) Benzo(a)pyrene	15.445	252	873412	59.435	ng	98
91) Dibenzo(a,h)anthracene	17.027	278	110320	7.710	ng	93
92) Benzo(g,h,i)perylene	17.474	276	412015	26.660	ng	98

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

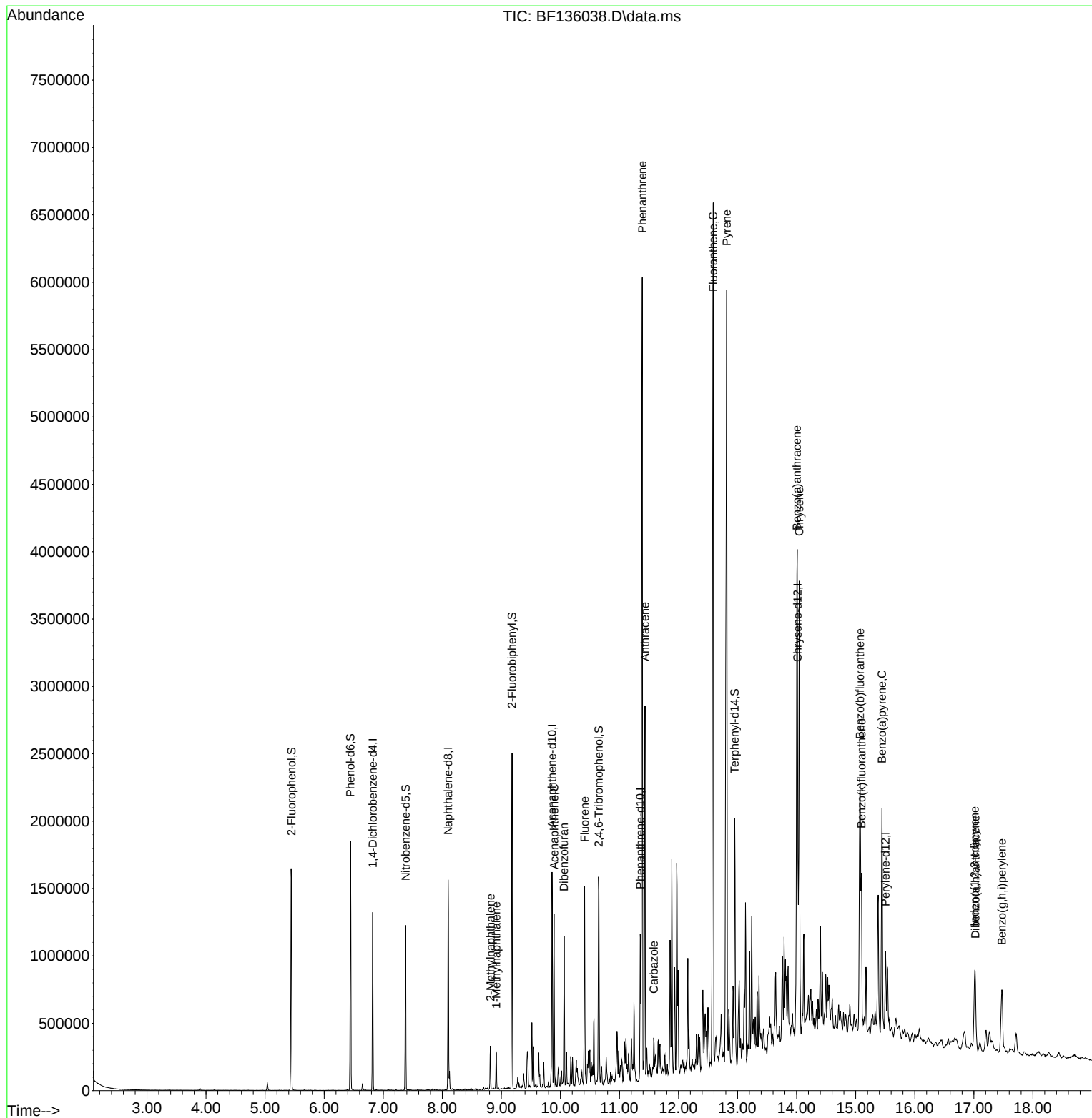
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103023\
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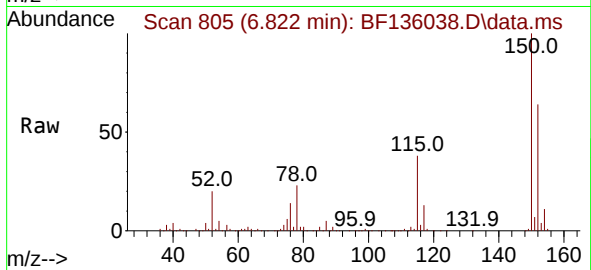
Reviewed By :Yogesh Patel 10/31/2023
Supervised By :mohammad ahmed 10/31/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 806
Delta R.T. -0.006 min
Lab File: BF136038.D
Acq: 30 Oct 2023 20:33

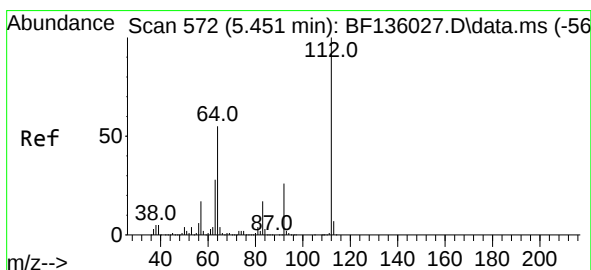
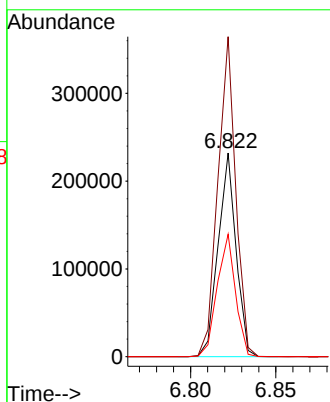
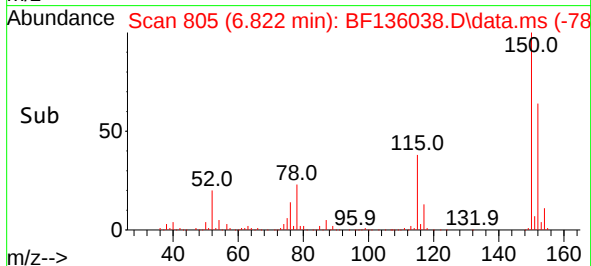
Instrument :
BNA_F
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OR-02-102523



Tgt Ion:152 Resp: 169723
Ion Ratio Lower Upper
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150 157.1 126.4 189.6
115 60.1 47.0 70.4

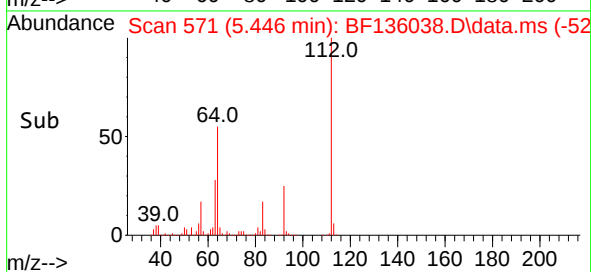
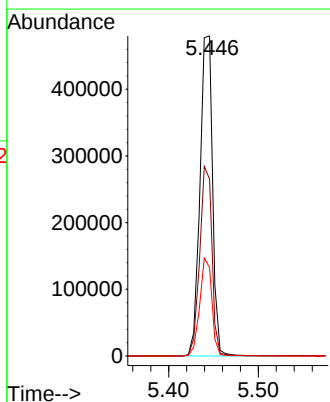
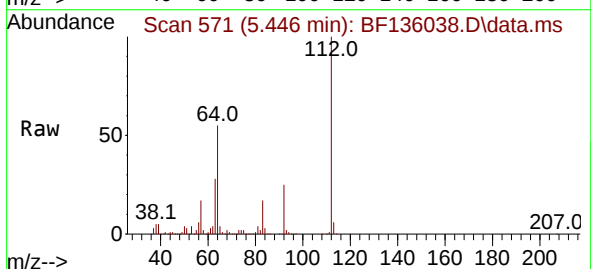
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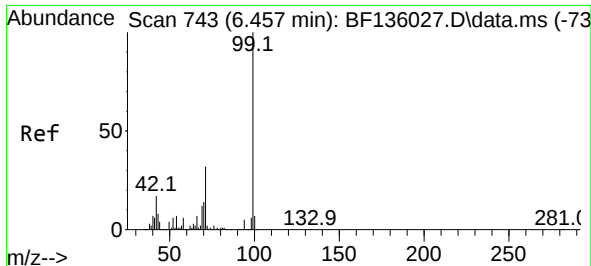
Reviewed By :Yogesh Patel 10/31/2023
Supervised By :mohammad ahmed 10/31/2023



#5
2-Fluorophenol
Concen: 43.333 ng
RT: 5.446 min Scan# 571
Delta R.T. -0.006 min
Lab File: BF136038.D
Acq: 30 Oct 2023 20:33

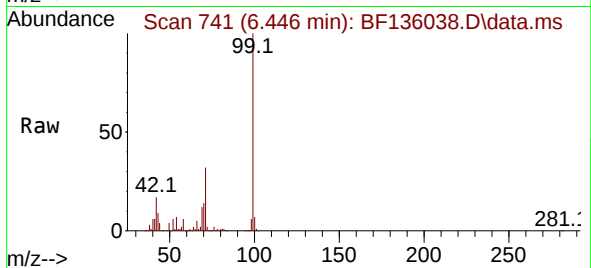
Tgt Ion:112 Resp: 468021
Ion Ratio Lower Upper
112 100
64 55.3 43.9 65.9
63 27.6 22.4 33.6





#7
Phenol-d6
Concen: 43.441 ng
RT: 6.446 min Scan# 741
Delta R.T. -0.012 min
Lab File: BF136038.D
Acq: 30 Oct 2023 20:33

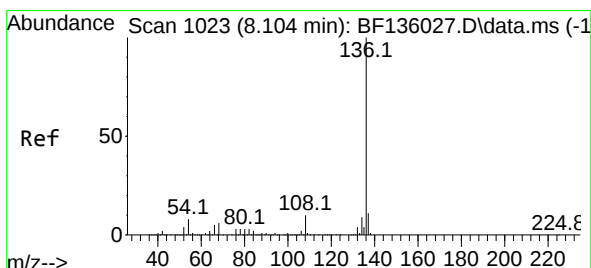
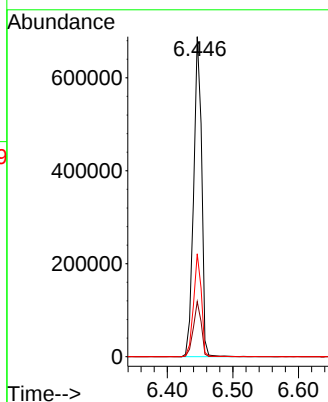
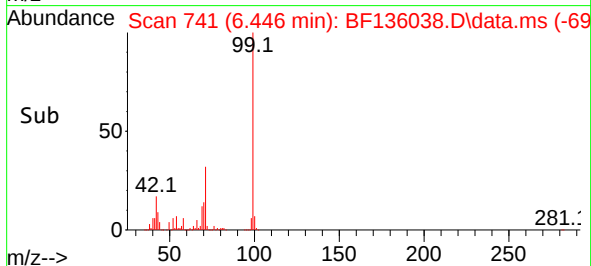
Instrument :
BNA_F
ClientSampleId :
OR-02-102523



Tgt Ion: 99 Resp: 584590
Ion Ratio Lower Upper
99 100
42 17.2 13.7 20.5
71 32.1 25.9 38.9

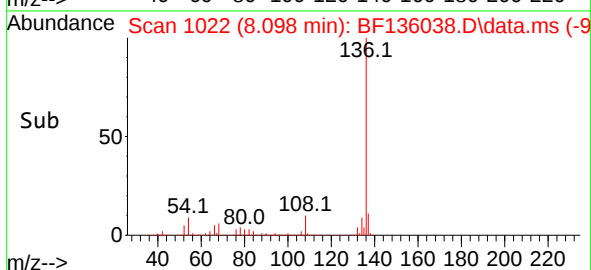
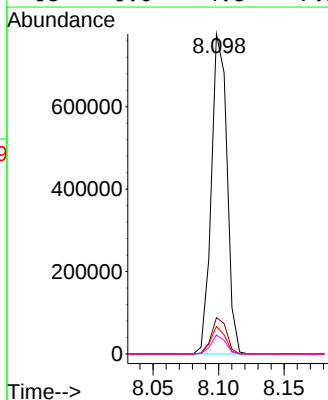
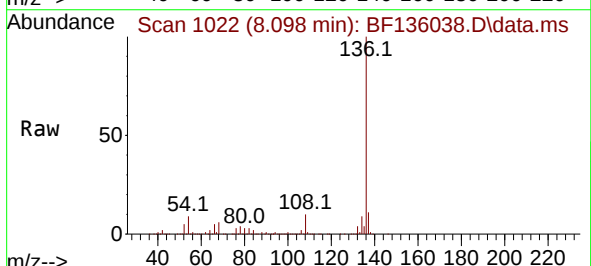
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#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.098 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF136038.D
Acq: 30 Oct 2023 20:33

Tgt Ion:136 Resp: 644736
Ion Ratio Lower Upper
136 100
137 11.4 8.6 13.0
54 8.6 6.6 9.8
68 6.0 4.8 7.2





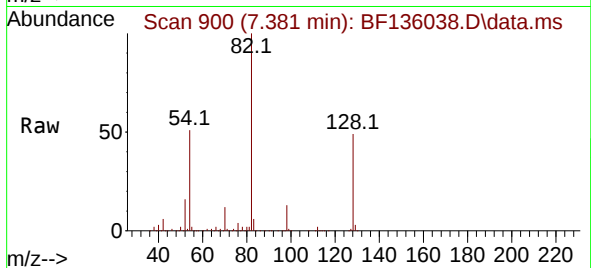
#23
Nitrobenzene-d5
Concen: 31.396 ng
RT: 7.381 min Scan# 902
Delta R.T. -0.012 min
Lab File: BF136038.D
Acq: 30 Oct 2023 20:33

Instrument :

BNA_F

ClientSampleId :

OR-02-102523

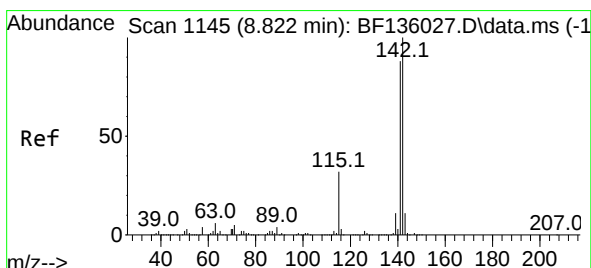
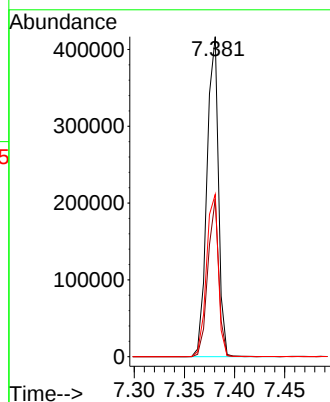
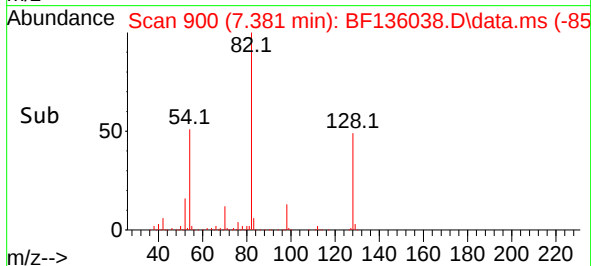


Tgt Ion: 82 Resp: 335780
Ion Ratio Lower Upper
82 100
128 49.3 38.6 57.8
54 50.7 40.8 61.2

Manual Integrations

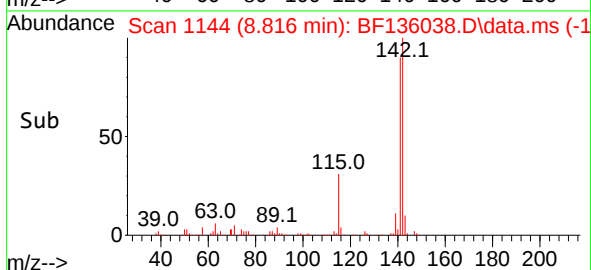
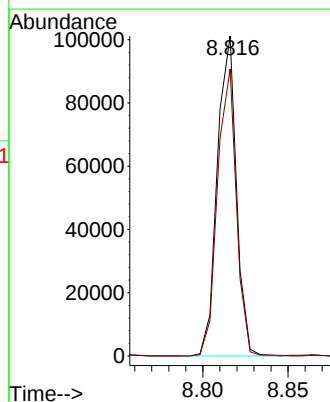
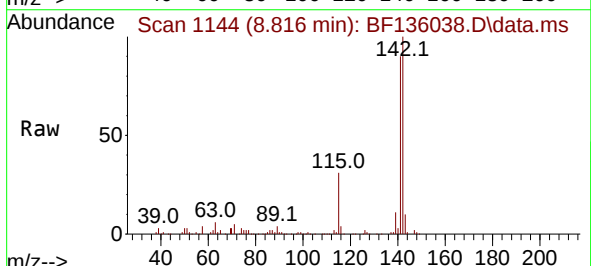
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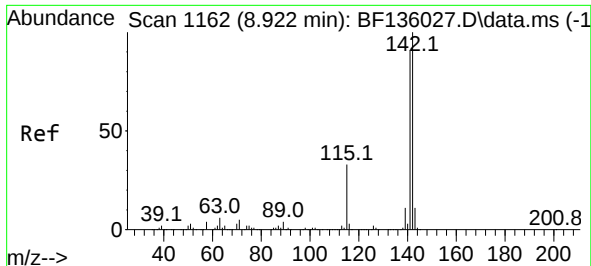
Reviewed By :Yogesh Patel 10/31/2023
Supervised By :mohammad ahmed 10/31/2023



#37
2-Methylnaphthalene
Concen: 3.773 ng
RT: 8.816 min Scan# 1144
Delta R.T. -0.006 min
Lab File: BF136038.D
Acq: 30 Oct 2023 20:33

Tgt Ion:142 Resp: 78648
Ion Ratio Lower Upper
142 100
141 89.7 70.4 105.6





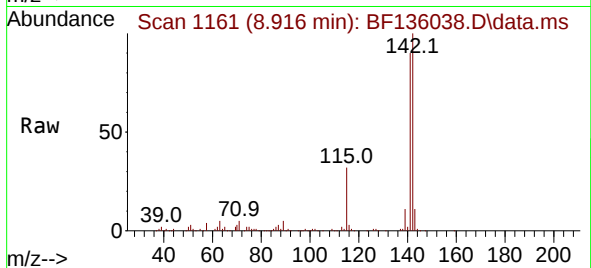
#38
1-Methylnaphthalene
Concen: 3.678 ng
RT: 8.916 min Scan# 1161
Delta R.T. -0.006 min
Lab File: BF136038.D
Acq: 30 Oct 2023 20:33

Instrument :

BNA_F

ClientSampleId :

OR-02-102523



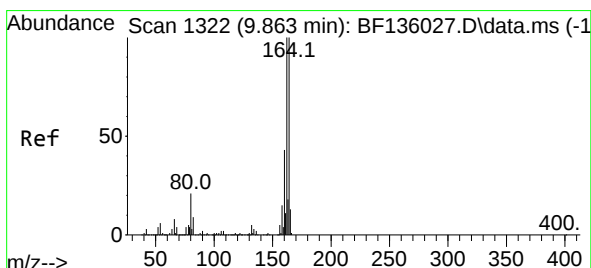
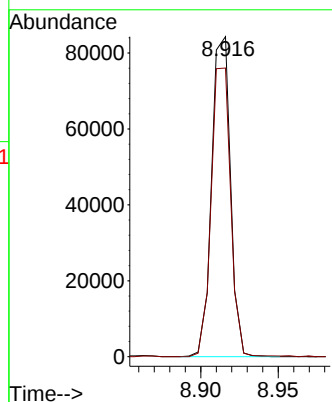
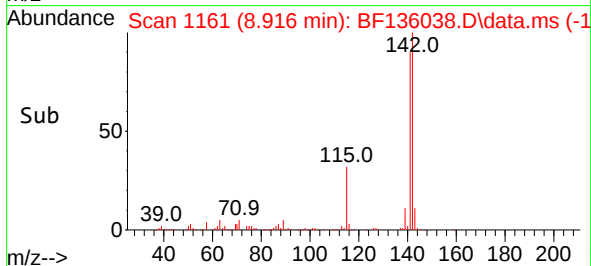
Tgt Ion:142 Resp: 71359
Ion Ratio Lower Upper
142 100
141 90.2 72.6 109.0

Manual Integrations

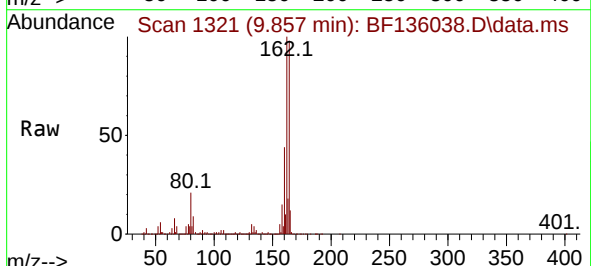
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Reviewed By :Yogesh Patel 10/31/2023

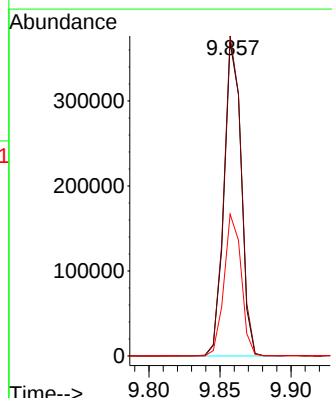
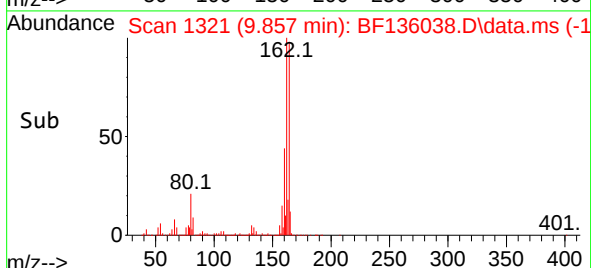
Supervised By :mohammad ahmed 10/31/2023

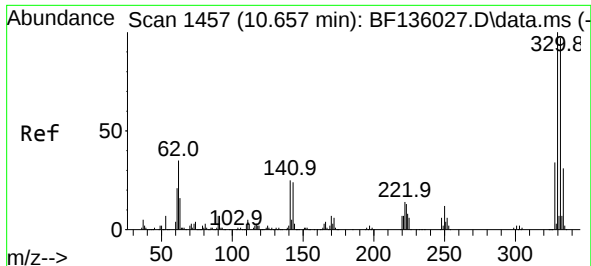


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.857 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF136038.D
Acq: 30 Oct 2023 20:33



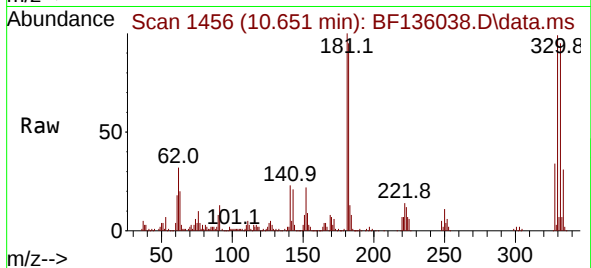
Tgt Ion:164 Resp: 308856
Ion Ratio Lower Upper
164 100
162 101.9 80.1 120.1
160 45.2 34.8 52.2





#42
2,4,6-Tribromophenol
Concen: 39.772 ng
RT: 10.651 min Scan# 1457
Delta R.T. -0.006 min
Lab File: BF136038.D
Acq: 30 Oct 2023 20:33

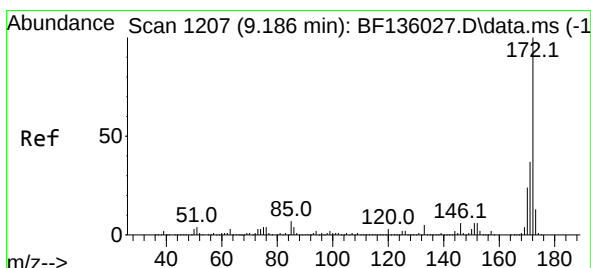
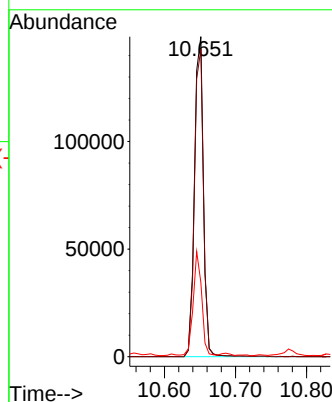
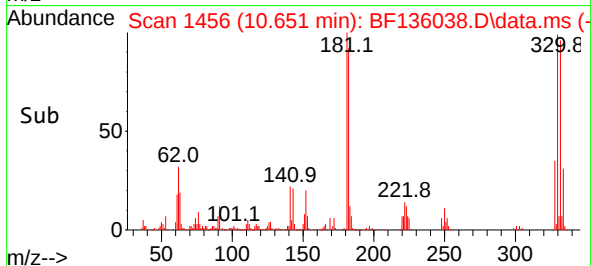
Instrument :
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ClientSampleId :
OR-02-102523



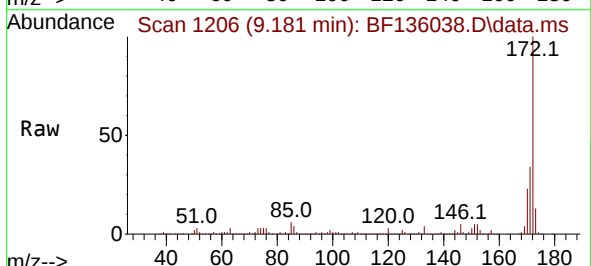
Tgt Ion: 330 Resp: 131110
Ion Ratio Lower Upper
330 100
332 96.2 76.9 115.3
141 30.2 23.2 34.8

Manual Integrations
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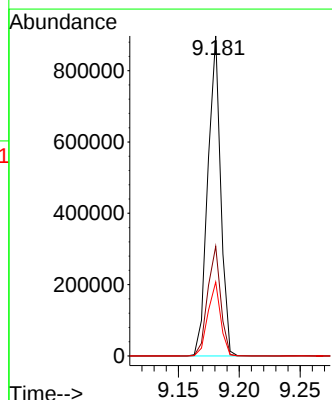
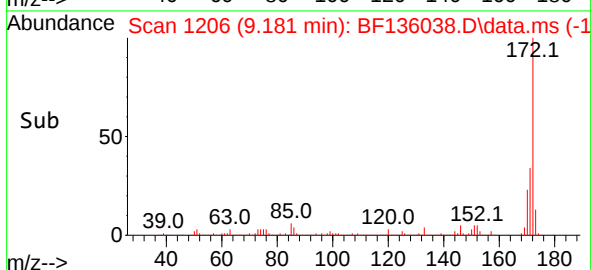
Reviewed By : Yogesh Patel 10/31/2023
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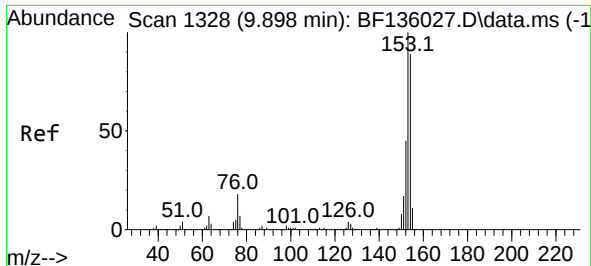


#45
2-Fluorobiphenyl
Concen: 33.903 ng
RT: 9.181 min Scan# 1206
Delta R.T. -0.006 min
Lab File: BF136038.D
Acq: 30 Oct 2023 20:33



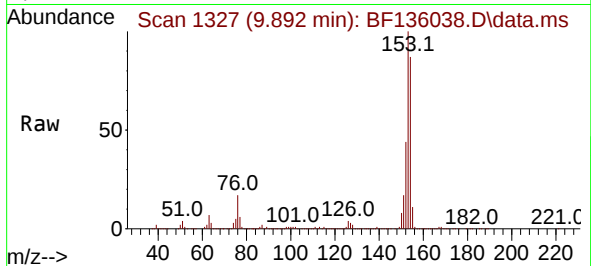
Tgt Ion: 172 Resp: 656870
Ion Ratio Lower Upper
172 100
171 34.3 29.4 44.0
170 23.1 19.3 28.9





#52
Acenaphthene
Concen: 13.996 ng
RT: 9.892 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136038.D
Acq: 30 Oct 2023 20:33

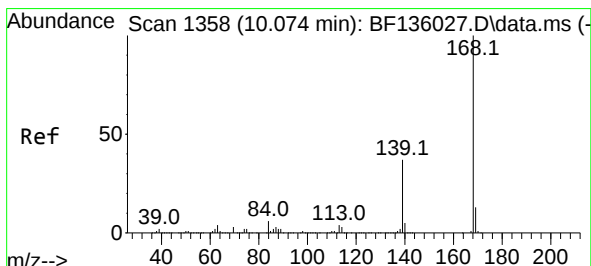
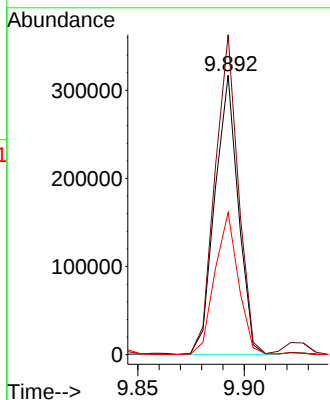
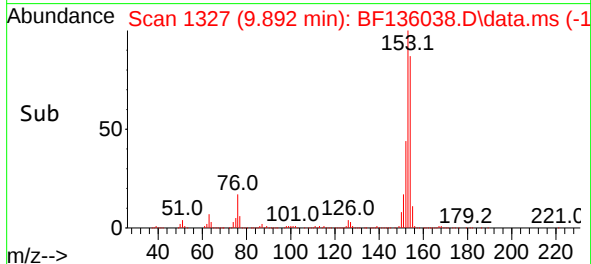
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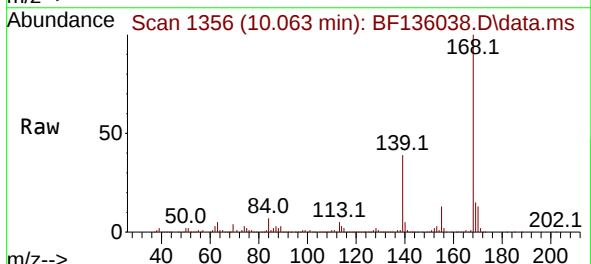
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Ion Ratio Lower Upper
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153 114.6 89.9 134.9
152 50.9 40.2 60.2

Manual Integrations
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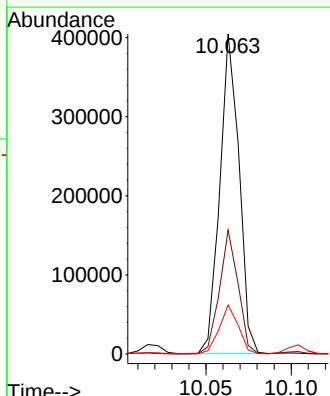
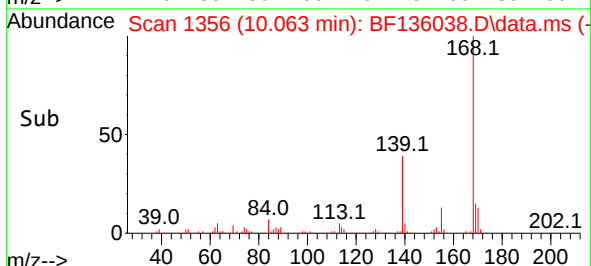
Reviewed By :Yogesh Patel 10/31/2023
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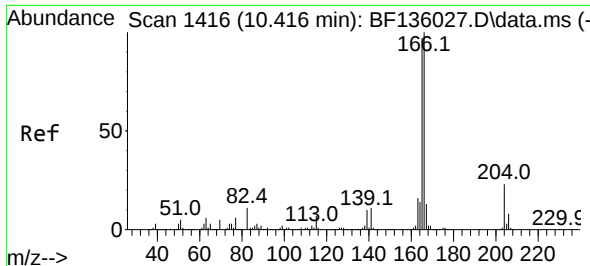


#55
Dibenzofuran
Concen: 12.645 ng
RT: 10.063 min Scan# 1356
Delta R.T. -0.012 min
Lab File: BF136038.D
Acq: 30 Oct 2023 20:33



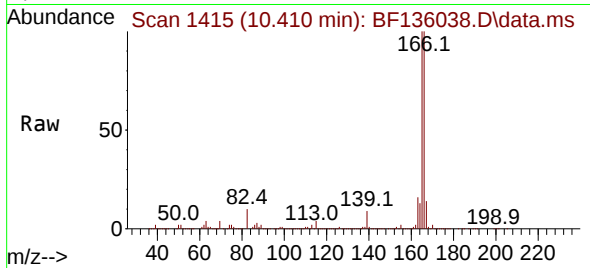
Tgt Ion:168 Resp: 317386
Ion Ratio Lower Upper
168 100
139 38.7 29.4 44.0
169 15.3 10.5 15.7





#58
Fluorene
Concen: 18.247 ng
RT: 10.410 min Scan# 1416
Delta R.T. -0.006 min
Lab File: BF136038.D
Acq: 30 Oct 2023 20:33

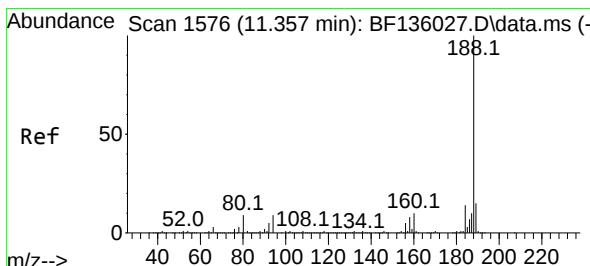
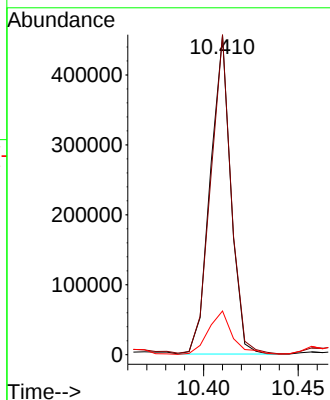
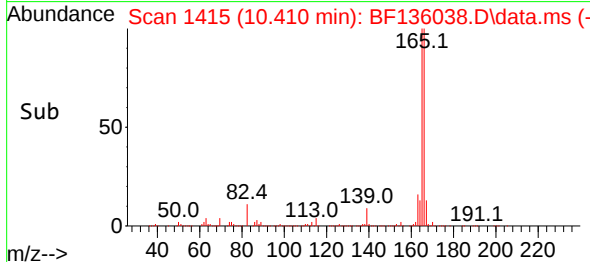
Instrument :
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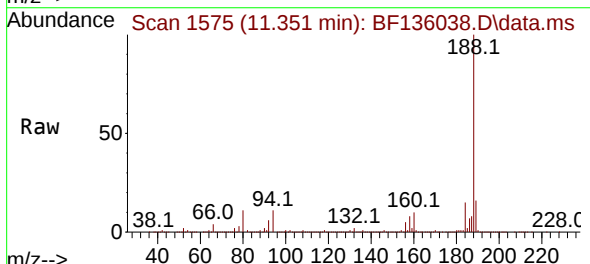
Tgt Ion:166 Resp: 342915
Ion Ratio Lower Upper
166 100
165 100.2 77.7 116.5
167 13.7 10.6 16.0

Manual Integrations
APPROVED

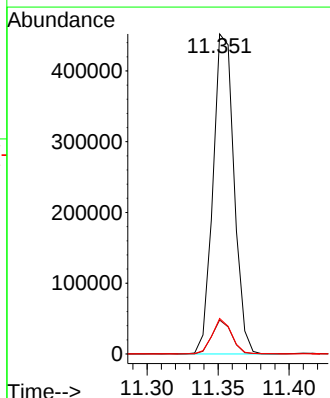
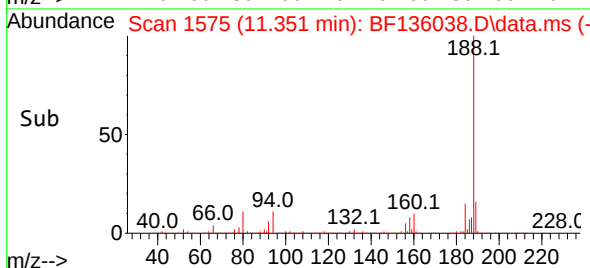
Reviewed By :Yogesh Patel 10/31/2023
Supervised By :mohammad ahmed 10/31/2023

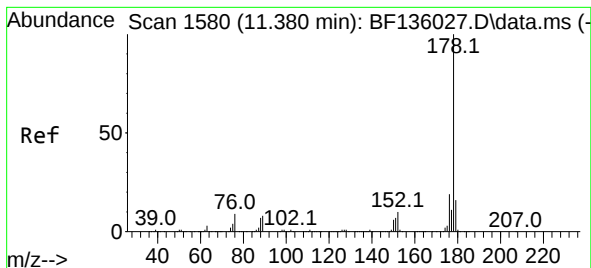


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.351 min Scan# 1575
Delta R.T. -0.006 min
Lab File: BF136038.D
Acq: 30 Oct 2023 20:33



Tgt Ion:188 Resp: 464985
Ion Ratio Lower Upper
188 100
94 10.6 7.2 10.8
80 11.1 7.4 11.0#





#71

Phenanthrene

Concen: 107.475 ng

RT: 11.386 min Scan# 1580

Delta R.T. 0.006 min

Lab File: BF136038.D

Acq: 30 Oct 2023 20:33

Instrument :

BNA_F

ClientSampleId :

OR-02-102523

Tgt Ion:178 Resp: 2516214

Ion Ratio Lower Upper

178 100

176 20.0 15.5 23.3

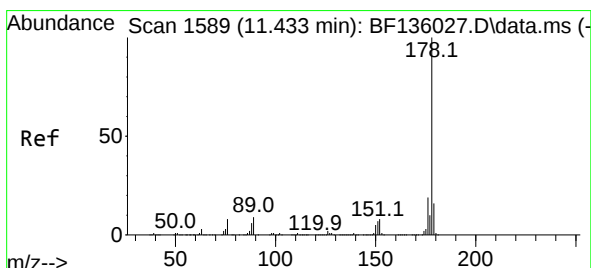
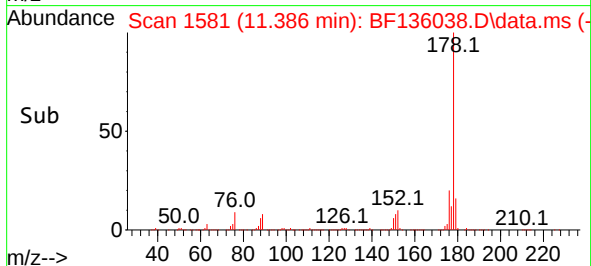
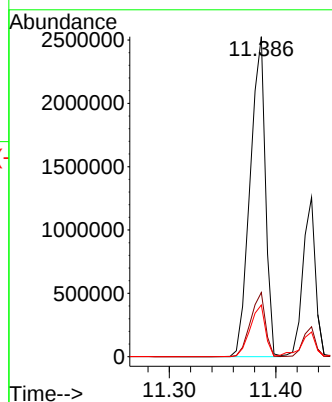
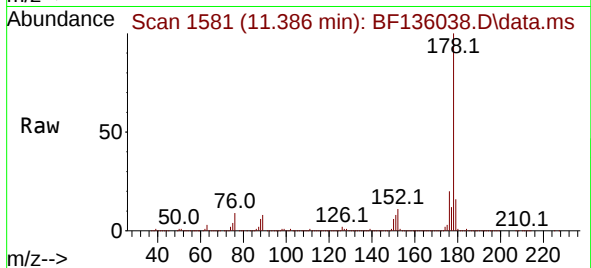
179 16.1 12.9 19.3

Manual Integrations

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Reviewed By :Yogesh Patel 10/31/2023

Supervised By :mohammad ahmed 10/31/2023



#72

Anthracene

Concen: 41.933 ng

RT: 11.433 min Scan# 1589

Delta R.T. 0.000 min

Lab File: BF136038.D

Acq: 30 Oct 2023 20:33

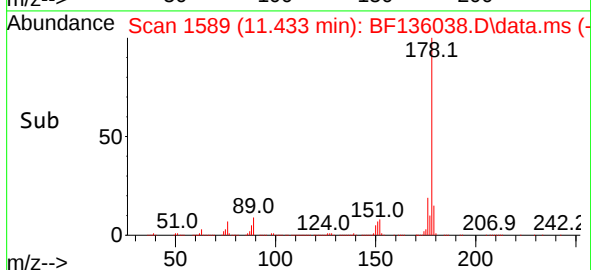
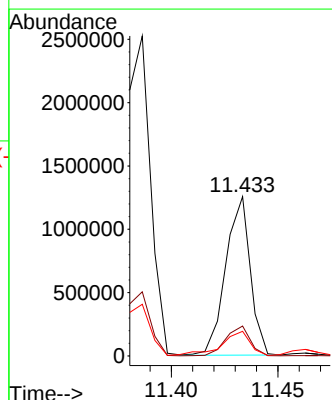
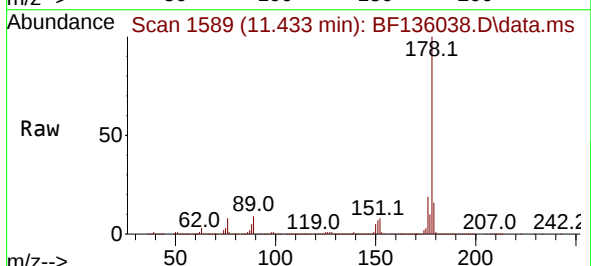
Tgt Ion:178 Resp: 1005993

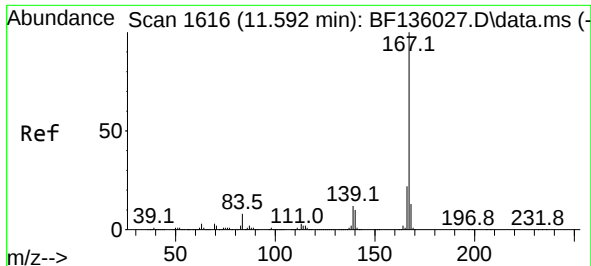
Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.4

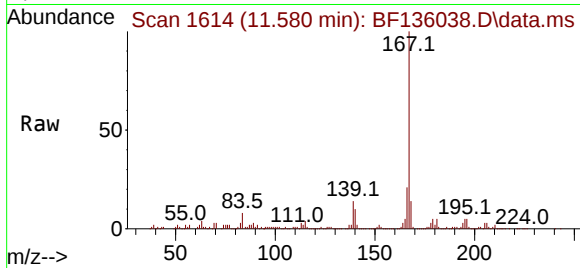
179 15.5 12.6 18.8





#73
 Carbazole
 Concen: 4.797 ng
 RT: 11.580 min Scan# 1614
 Delta R.T. -0.011 min
 Lab File: BF136038.D
 Acq: 30 Oct 2023 20:33

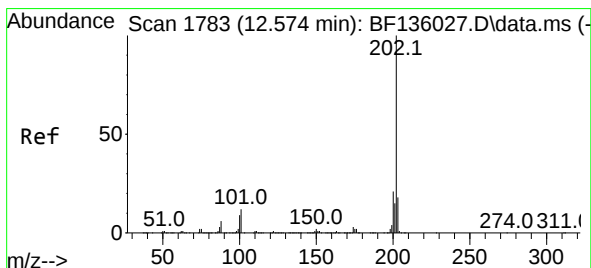
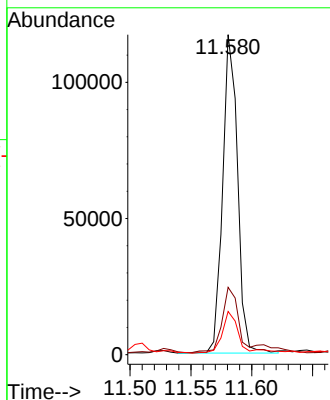
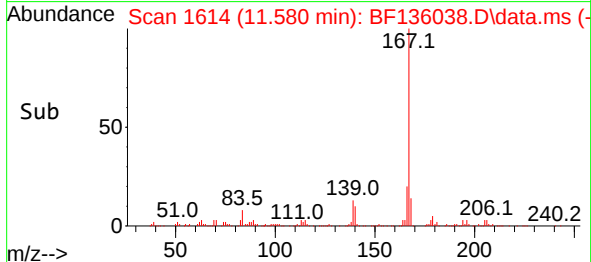
Instrument :
 BNA_F
 ClientSampleId :
 OR-02-102523



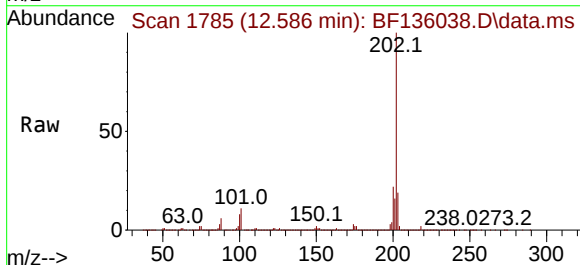
Tgt Ion:167 Resp: 100011
 Ion Ratio Lower Upper
 167 100
 166 21.0 17.2 25.8
 139 13.5 9.9 14.9

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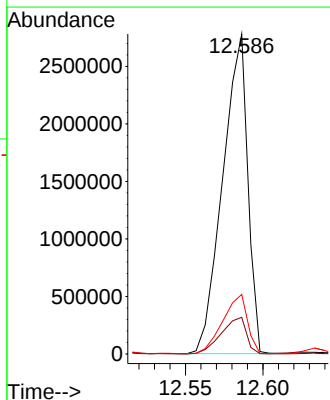
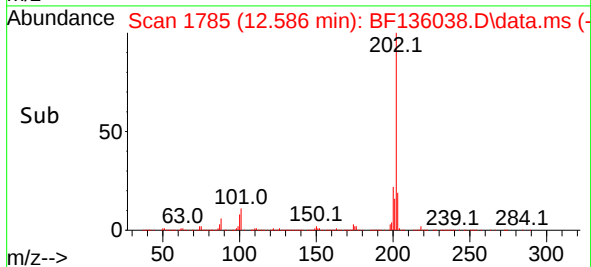
Reviewed By :Yogesh Patel 10/31/2023
 Supervised By :mohammad ahmed 10/31/2023

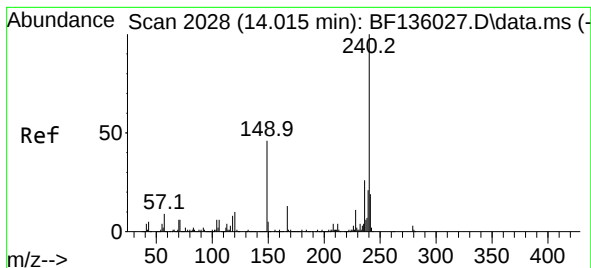


#75
 Fluoranthene
 Concen: 129.569 ng
 RT: 12.586 min Scan# 1785
 Delta R.T. 0.012 min
 Lab File: BF136038.D
 Acq: 30 Oct 2023 20:33



Tgt Ion:202 Resp: 3116329
 Ion Ratio Lower Upper
 202 100
 101 11.5 0.0 31.8
 203 18.6 0.0 37.9





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.016 min Scan# 2028

Delta R.T. 0.000 min

Lab File: BF136038.D

Acq: 30 Oct 2023 20:33

Instrument :

BNA_F

ClientSampleId :

OR-02-102523

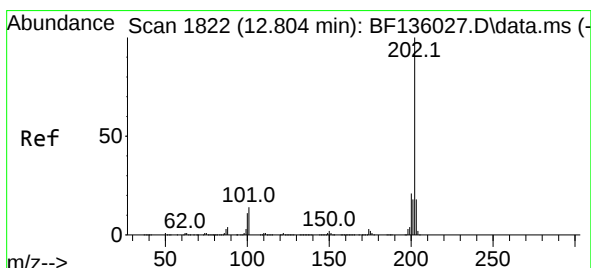
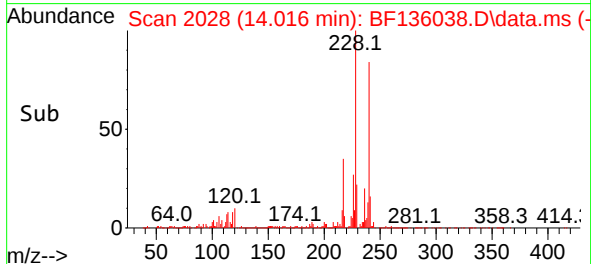
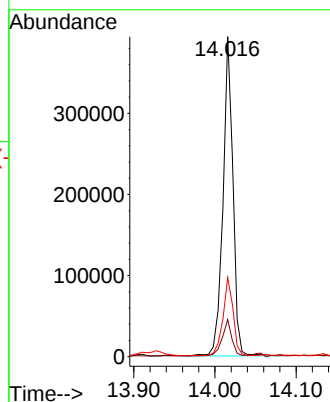
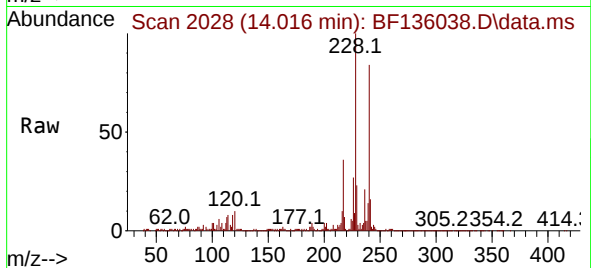
Tgt Ion:240 Resp: 33738
 Ion Ratio Lower Upper
 240 100
 120 11.6 7.6 11.4
 236 24.7 20.6 31.0

Manual Integrations

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Reviewed By :Yogesh Patel 10/31/2023

Supervised By :mohammad ahmed 10/31/2023



#78

Pyrene

Concen: 95.693 ng

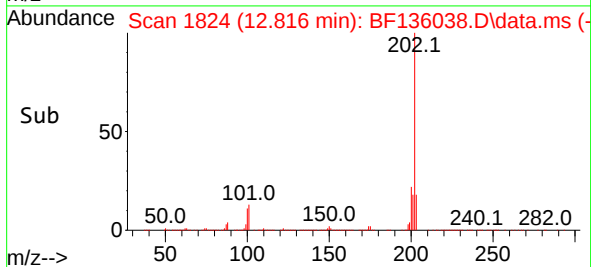
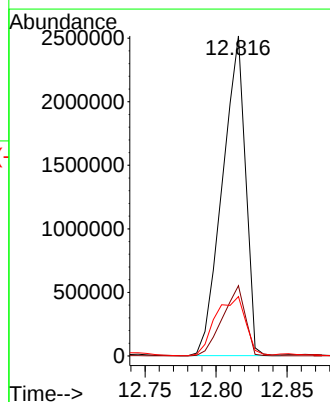
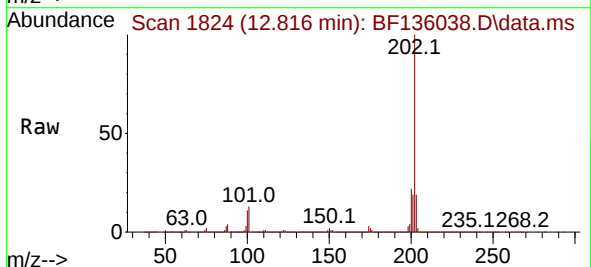
RT: 12.816 min Scan# 1824

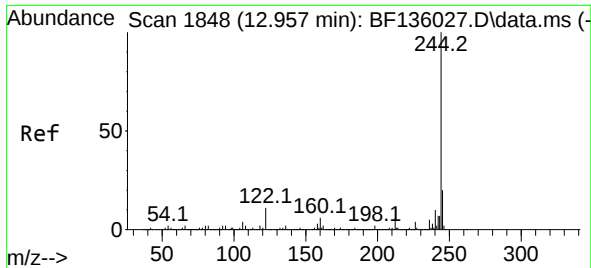
Delta R.T. 0.012 min

Lab File: BF136038.D

Acq: 30 Oct 2023 20:33

Tgt Ion:202 Resp: 2846418
 Ion Ratio Lower Upper
 202 100
 200 22.0 17.0 25.4
 203 18.5 14.4 21.6





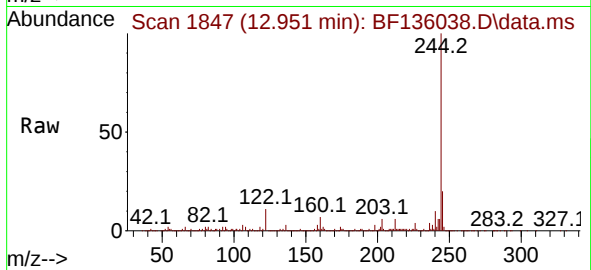
#79
Terphenyl-d14
Concen: 26.922 ng
RT: 12.951 min Scan# 1848
Delta R.T. -0.006 min
Lab File: BF136038.D
Acq: 30 Oct 2023 20:33

Instrument :

BNA_F

ClientSampleId :

OR-02-102523



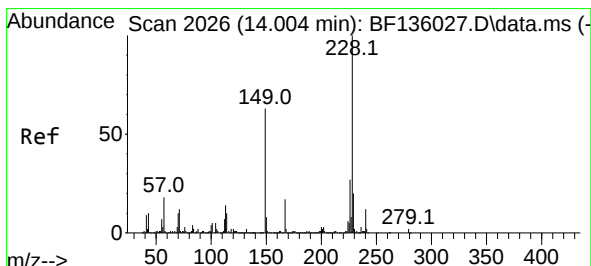
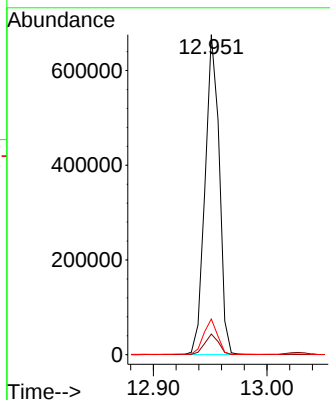
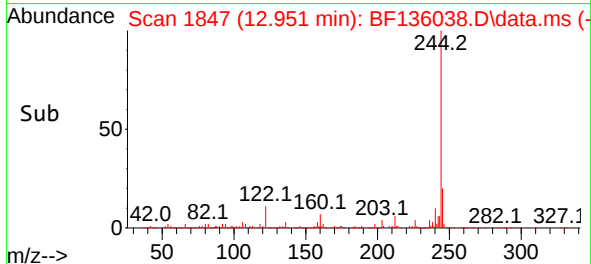
Tgt Ion:244 Resp: 58448
Ion Ratio Lower Upper
244 100
212 6.5 5.1 7.7
122 11.1 8.6 12.8

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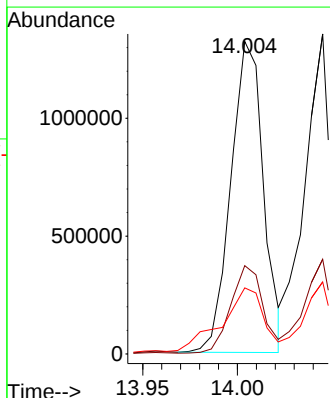
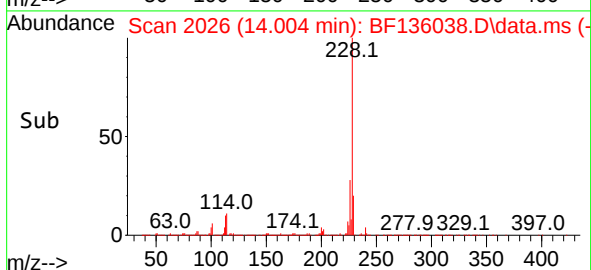
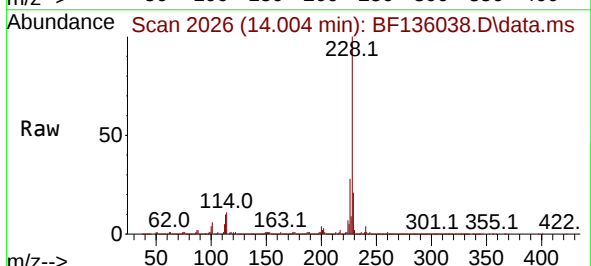
Reviewed By :Yogesh Patel 10/31/2023

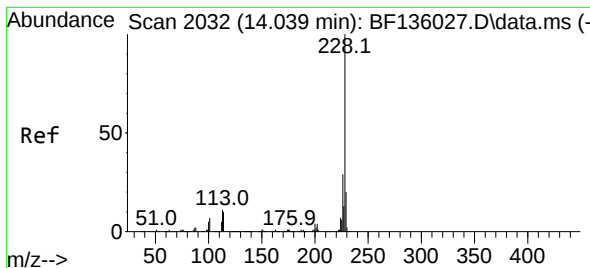
Supervised By :mohammad ahmed 10/31/2023



#81
Benzo(a)anthracene
Concen: 70.789 ng
RT: 14.004 min Scan# 2026
Delta R.T. 0.000 min
Lab File: BF136038.D
Acq: 30 Oct 2023 20:33

Tgt Ion:228 Resp: 1581118
Ion Ratio Lower Upper
228 100
226 28.3 21.5 32.3
229 21.2 15.8 23.6





#83

Chrysene

Concen: 59.024 ng

RT: 14.045 min Scan# 2032

Delta R.T. 0.006 min

Lab File: BF136038.D

Acq: 30 Oct 2023 20:33

Instrument :

BNA_F

ClientSampleId :

OR-02-102523

Tgt Ion:228 Resp: 129832

Ion Ratio Lower Upper

228 100

226 29.6 23.5 35.3

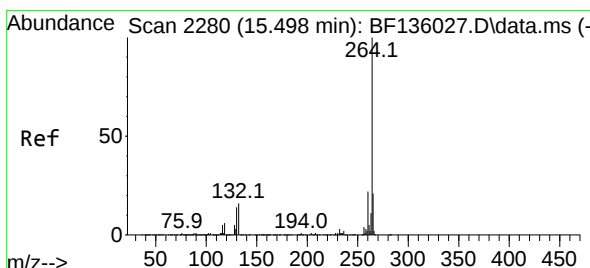
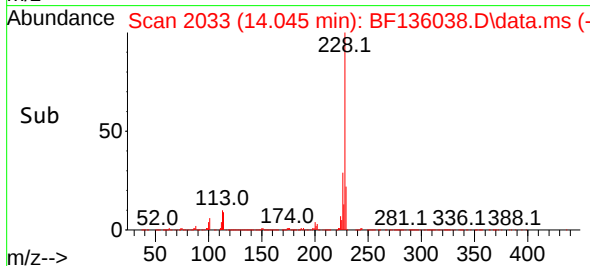
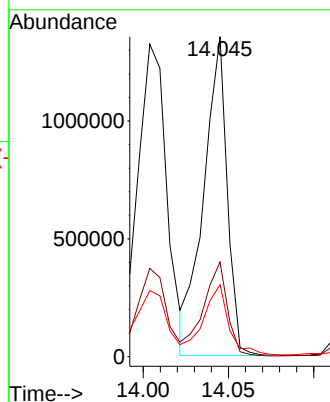
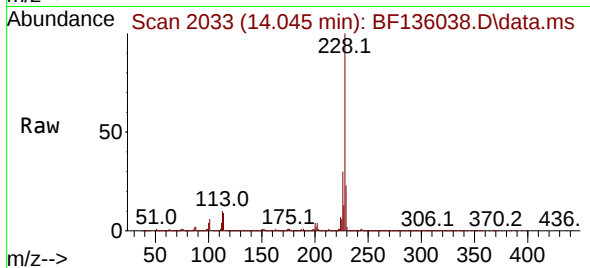
229 22.5 16.0 24.0

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: BF136038.D

Acq: 30 Oct 2023 20:33

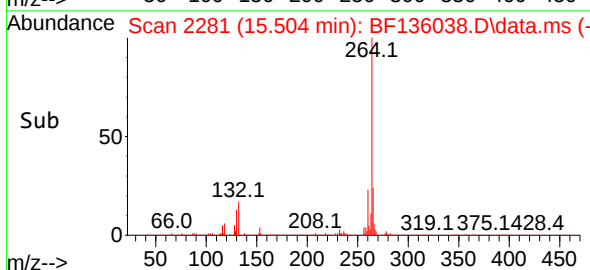
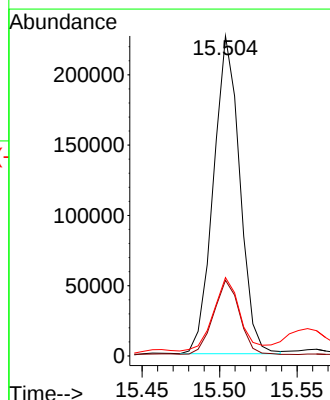
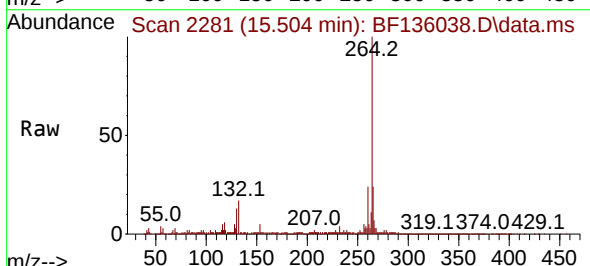
Tgt Ion:264 Resp: 267287

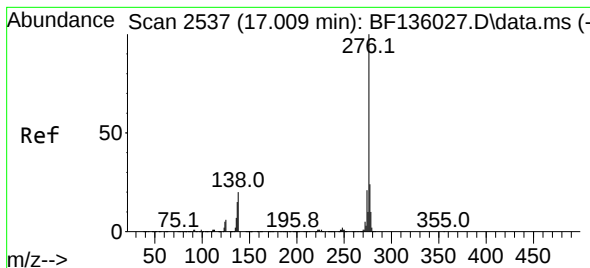
Ion Ratio Lower Upper

264 100

260 23.6 17.9 26.9

265 24.5 16.8 25.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 26.005 ng

RT: 17.015 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF136038.D

Acq: 30 Oct 2023 20:33

Instrument :

BNA_F

ClientSampleId :

OR-02-102523

Tgt Ion:276 Resp: 454274

Ion Ratio Lower Upper

276 100

138 21.0 20.4 30.6

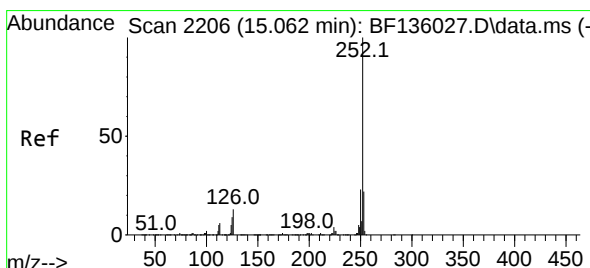
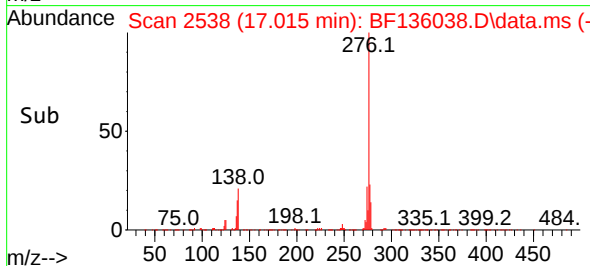
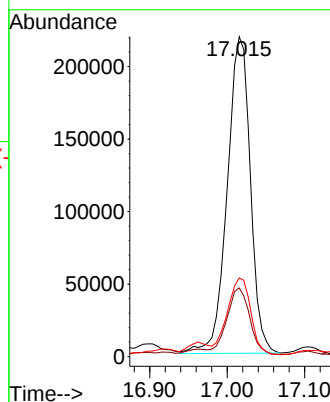
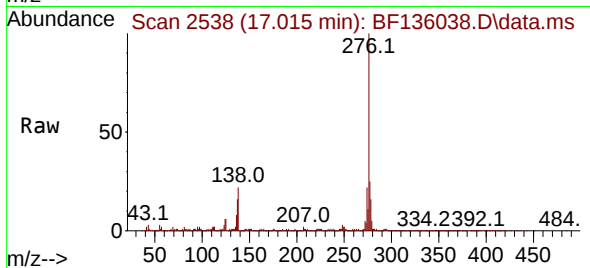
277 24.2 20.2 30.2

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: 75.753 ng m

RT: 15.074 min Scan# 2208

Delta R.T. 0.012 min

Lab File: BF136038.D

Acq: 30 Oct 2023 20:33

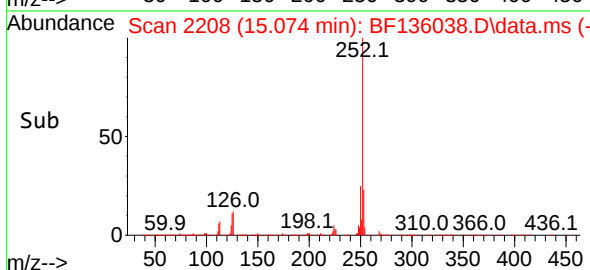
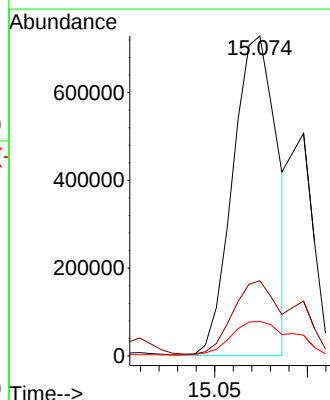
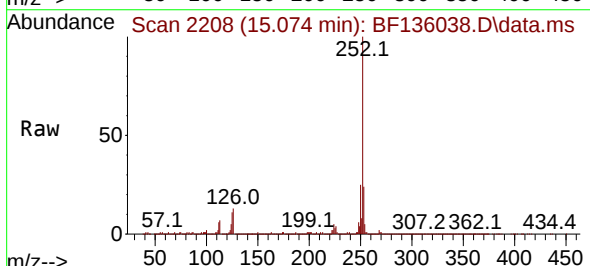
Tgt Ion:252 Resp: 1198103

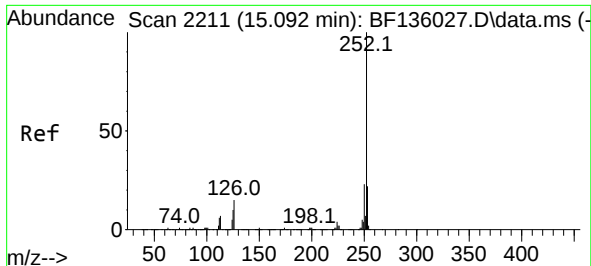
Ion Ratio Lower Upper

252 100

253 23.5 17.7 26.5

125 10.8 7.5 11.3





#89

Benzo(k)fluoranthene

Concen: 29.533 ng m

RT: 15.098 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF136038.D

Acq: 30 Oct 2023 20:33

Instrument :

BNF

ClientSampleId :

OR-02-102523

Tgt Ion:252 Resp: 46215

Ion Ratio Lower Upper

252 100

253 24.6 17.4 26.0

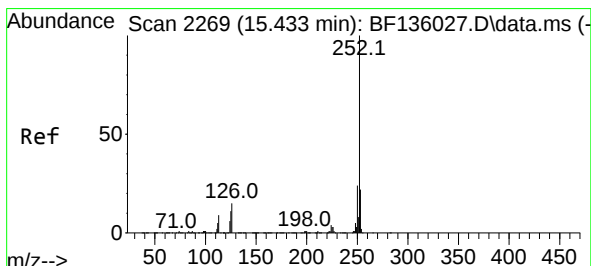
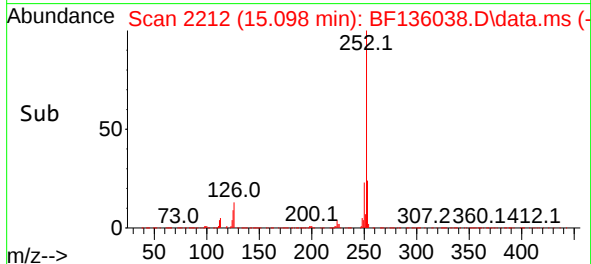
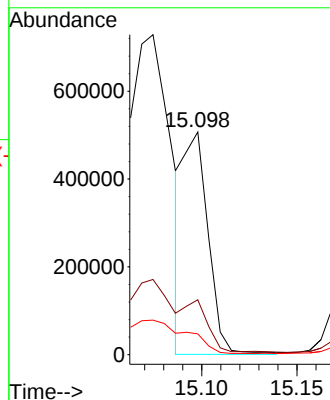
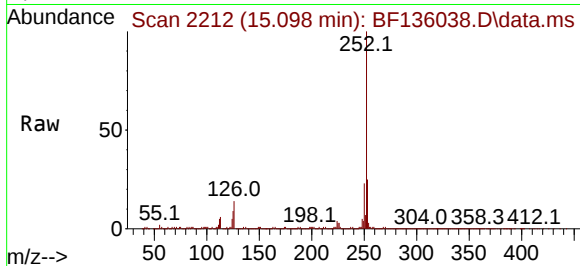
125 9.4 8.0 12.0

Manual Integrations

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Reviewed By :Yogesh Patel 10/31/2023

Supervised By :mohammad ahmed 10/31/2023



#90

Benzo(a)pyrene

Concen: 59.435 ng

RT: 15.445 min Scan# 2271

Delta R.T. 0.012 min

Lab File: BF136038.D

Acq: 30 Oct 2023 20:33

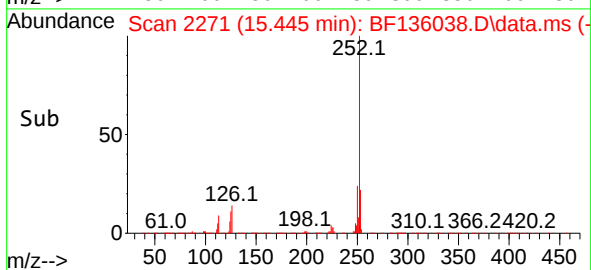
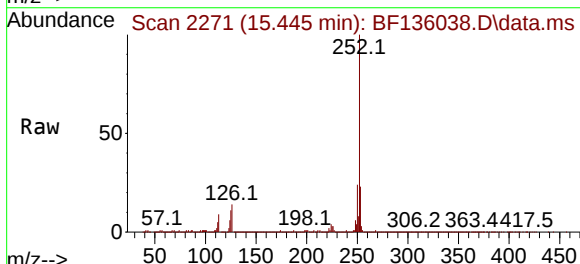
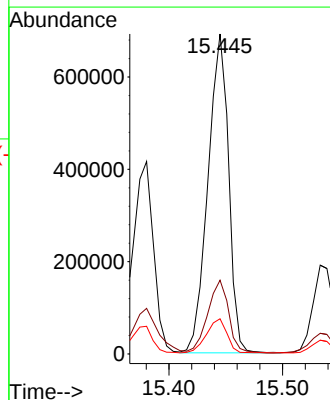
Tgt Ion:252 Resp: 873412

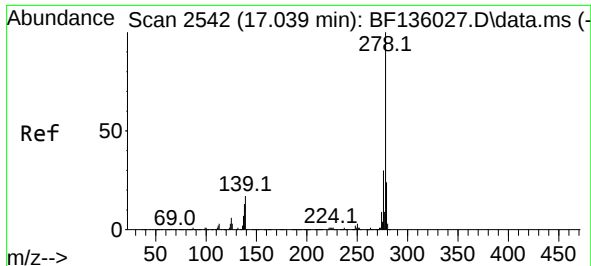
Ion Ratio Lower Upper

252 100

253 23.0 17.3 25.9

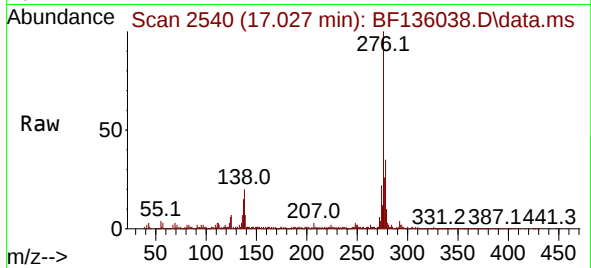
125 11.0 9.0 13.6





#91
Dibenzo(a,h)anthracene
Concen: 7.710 ng
RT: 17.027 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF136038.D
Acq: 30 Oct 2023 20:33

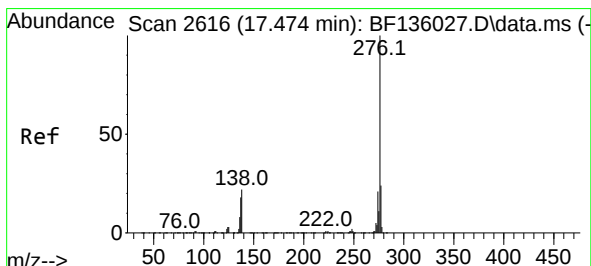
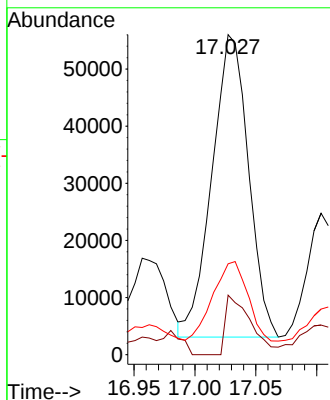
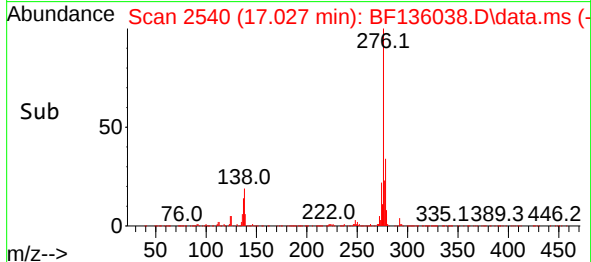
Instrument :
BNA_F
ClientSampleId :
OR-02-102523



Tgt Ion:278 Resp: 110320
Ion Ratio Lower Upper
278 100
139 18.6 13.7 20.5
279 28.4 19.0 28.6

Manual Integrations
APPROVED

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



#92
Benzo(g,h,i)perylene
Concen: 26.660 ng
RT: 17.474 min Scan# 2616
Delta R.T. 0.000 min
Lab File: BF136038.D
Acq: 30 Oct 2023 20:33

Tgt Ion:276 Resp: 412015
Ion Ratio Lower Upper
276 100
277 25.1 19.0 28.4
138 22.6 17.4 26.2

