

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122723\
 Data File : BF136773.D
 Acq On : 27 Dec 2023 23:02
 Operator : CG\JU
 Sample : 05862-12
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-LIQUIDS-20231213-01

Quant Time: Dec 27 23:30:23 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF122023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 21 01:54:25 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/28/2023
 Supervised By :mohammad ahmed 12/28/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	67584	20.000	ng	0.00
21) Naphthalene-d8	8.086	136	163596	20.000	ng	# 0.02
39) Acenaphthene-d10	9.822	164	118705	20.000	ng	0.00
64) Phenanthrene-d10	11.316	188	160400	20.000	ng	0.00
76) Chrysene-d12	14.004	240	71547	20.000	ng	# 0.04
86) Perylene-d12	15.510	264	106420	20.000	ng	0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	246770	56.971	ng	0.00
7) Phenol-d6	6.428	99	206468	36.787	ng	-0.01
23) Nitrobenzene-d5	7.351	82	420557	131.546	ng	0.00
42) 2,4,6-Tribromophenol	10.616	330	136407	97.572	ng	0.00
45) 2-Fluorobiphenyl	9.145	172	809248	91.692	ng	0.00
79) Terphenyl-d14	12.921	244	481799	94.106	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.151	128	16007033	1781.028	ng	96
37) 2-Methylnaphthalene	8.810	142	3940955	681.342	ng	99
38) 1-Methylnaphthalene	8.910	142	2946867	519.299	ng	98
46) 1,1'-Biphenyl	9.245	154	592132	59.444	ng	100
49) Acenaphthylene	9.686	152	591686	51.119	ng	# 95
52) Acenaphthene	9.863	154	787918	109.816	ng	100
55) Dibenzofuran	10.022	168	124013	11.402	ng	# 78
58) Fluorene	10.380	166	854554	99.023	ng	97
71) Phenanthrene	11.351	178	1828227	222.135	ng	98
72) Anthracene	11.398	178	436933	52.421	ng	99
73) Carbazole	11.551	167	120510	15.335	ng	96
75) Fluoranthene	12.545	202	454157	51.588	ng	83
78) Pyrene	12.780	202	674347	96.012	ng	# 96
81) Benzo(a)anthracene	13.992	228	184932	37.224	ng	# 83
83) Chrysene	14.027	228	164146	33.786	ng	# 91
87) Indeno(1,2,3-cd)pyrene	16.998	276	31808	4.140	ng	97
88) Benzo(b)fluoranthene	15.074	252	108155m	15.216	ng	
89) Benzo(k)fluoranthene	15.092	252	24085m	3.586	ng	
90) Benzo(a)pyrene	15.445	252	118591	19.766	ng	# 77
92) Benzo(g,h,i)perylene	17.451	276	30748	4.762	ng	# 84

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

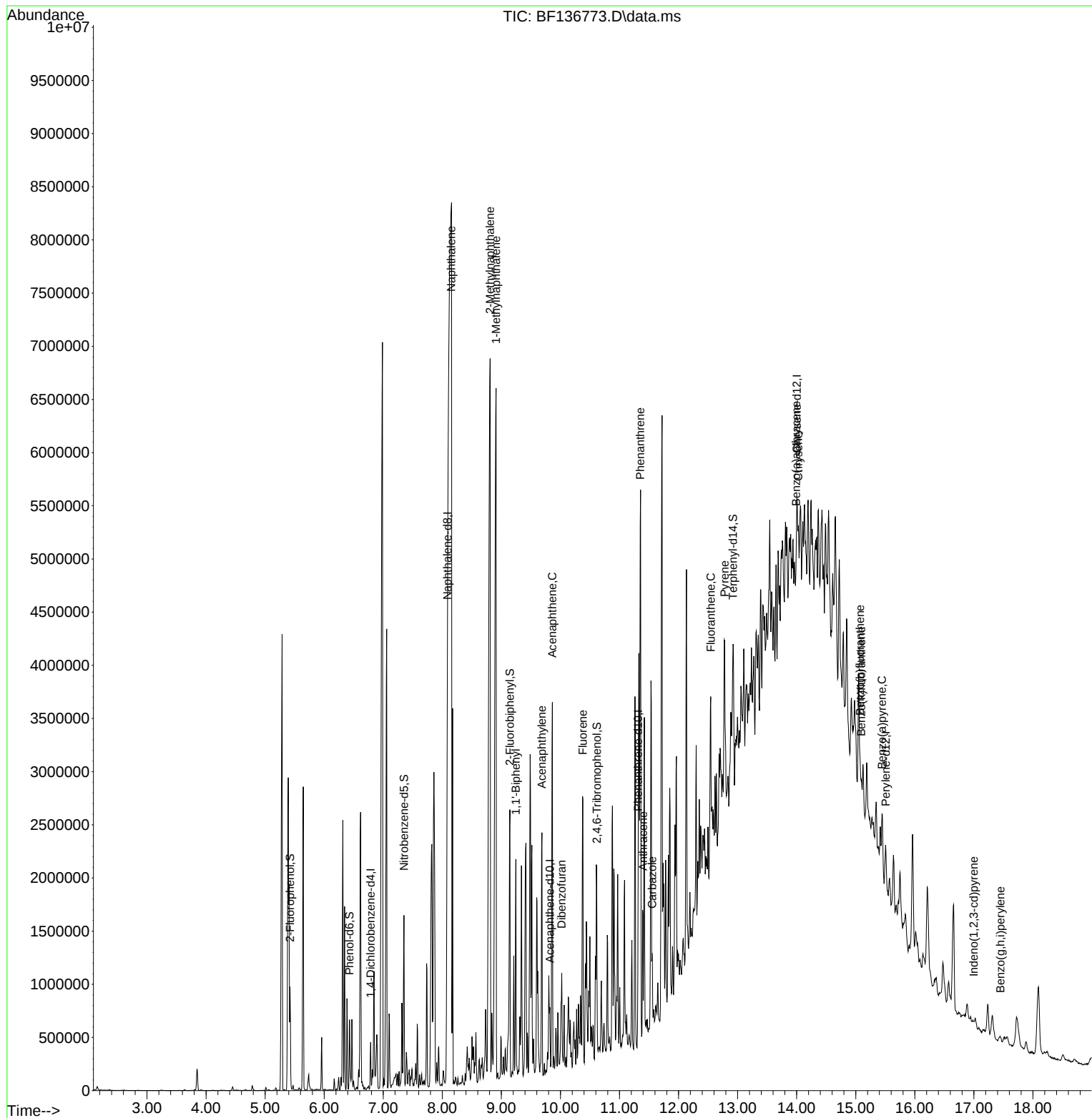
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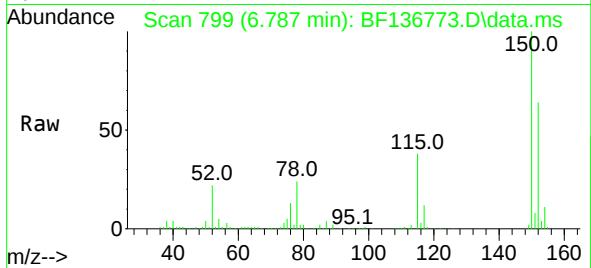
Reviewed By :Yogesh Patel 12/28/2023
Supervised By :mohammad ahmed 12/28/2023





#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.787 min Scan# 71
 Delta R.T. -0.005 min
 Lab File: BF136773.D
 Acq: 27 Dec 2023 23:02

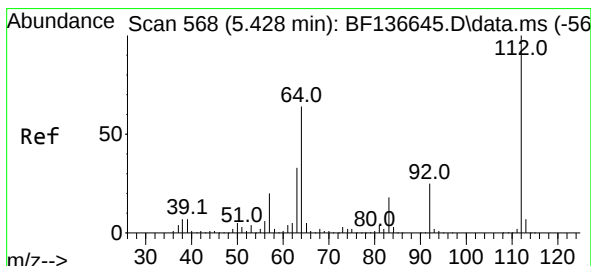
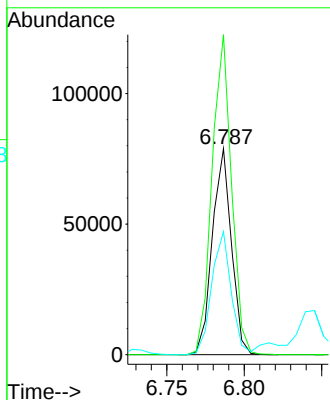
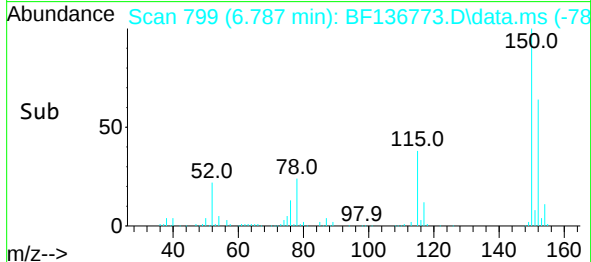
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 ClientSampleId :
 WC-LIQUIDS-20231213-01



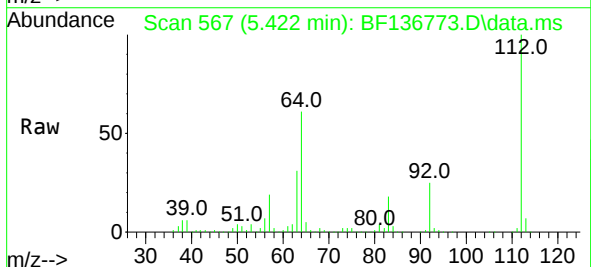
Tgt Ion:152 Resp: 67584
 Ion Ratio Lower Upper
 152 100
 150 155.3 127.0 190.6
 115 59.7 49.0 73.4

Manual Integrations
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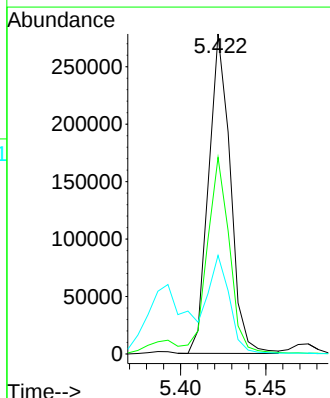
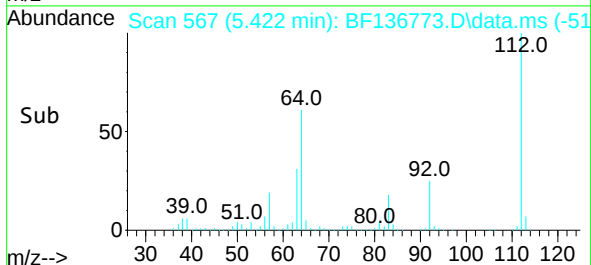
Reviewed By :Yogesh Patel 12/28/2023
 Supervised By :mohammad ahmed 12/28/2023

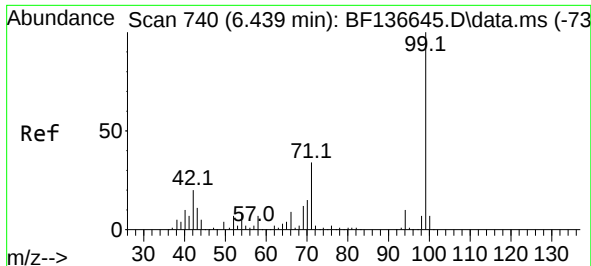


#5
 2-Fluorophenol
 Concen: 56.971 ng
 RT: 5.422 min Scan# 567
 Delta R.T. -0.006 min
 Lab File: BF136773.D
 Acq: 27 Dec 2023 23:02



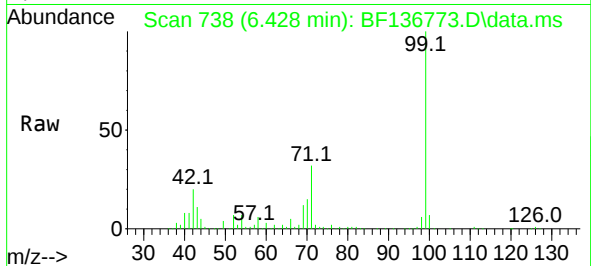
Tgt Ion:112 Resp: 246770
 Ion Ratio Lower Upper
 112 100
 64 61.5 51.1 76.7
 63 30.8 26.1 39.1





#7
Phenol-d6
Concen: 36.787 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF136773.D
Acq: 27 Dec 2023 23:02

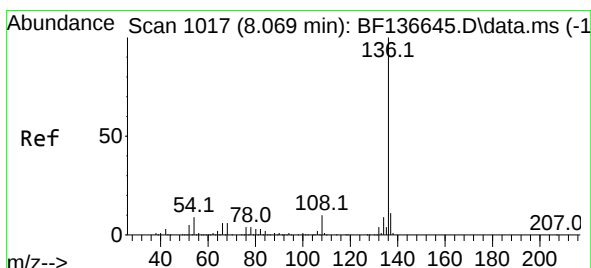
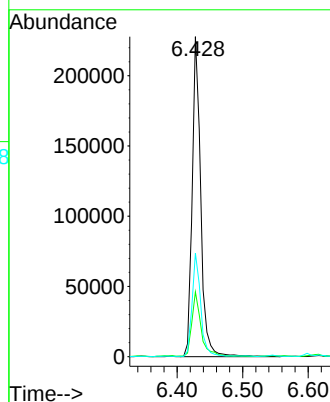
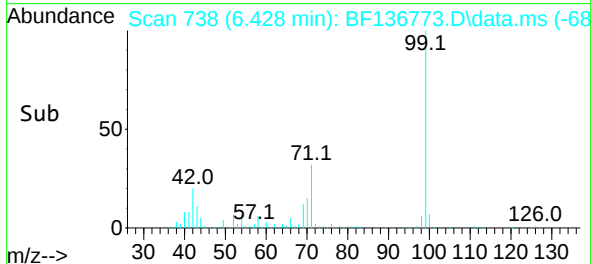
Instrument :
BNA_F
ClientSampleId :
WC-LIQUIDS-20231213-01



Tgt Ion: 99 Resp: 206468
Ion Ratio Lower Upper
99 100
42 20.2 16.1 24.1
71 32.4 27.4 41.2

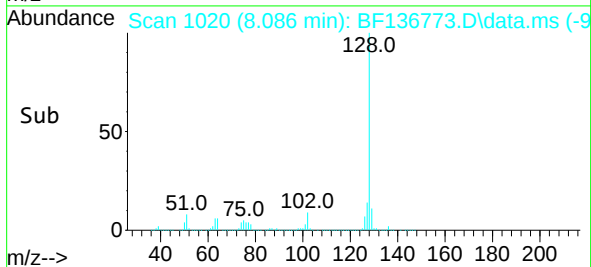
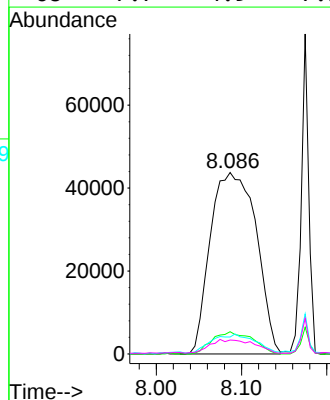
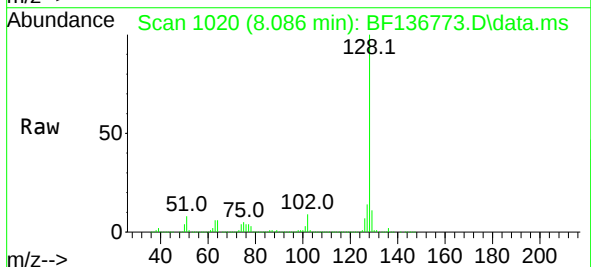
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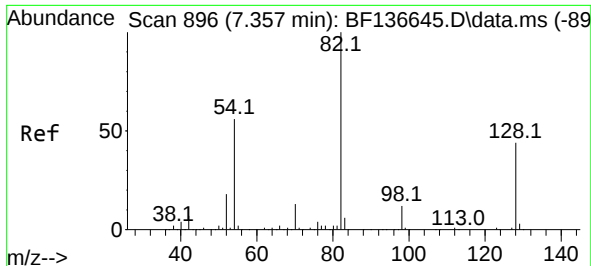
Reviewed By :Yogesh Patel 12/28/2023
Supervised By :mohammad ahmed 12/28/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.086 min Scan# 1020
Delta R.T. 0.018 min
Lab File: BF136773.D
Acq: 27 Dec 2023 23:02

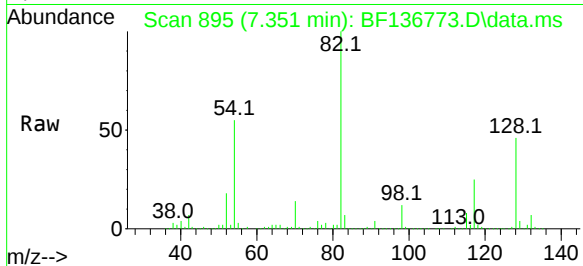
Tgt Ion:136 Resp: 163596
Ion Ratio Lower Upper
136 100
137 12.3 9.0 13.4
54 9.4 7.2 10.8
68 7.7 4.9 7.3#





#23
Nitrobenzene-d5
Concen: 131.546 ng
RT: 7.351 min Scan# 896
Delta R.T. -0.006 min
Lab File: BF136773.D
Acq: 27 Dec 2023 23:02

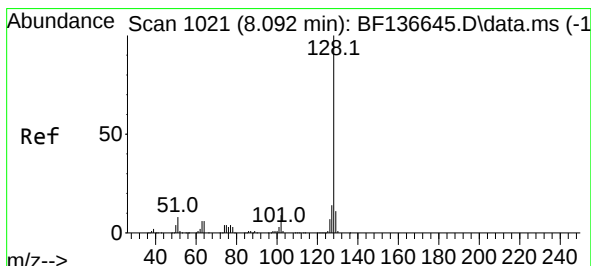
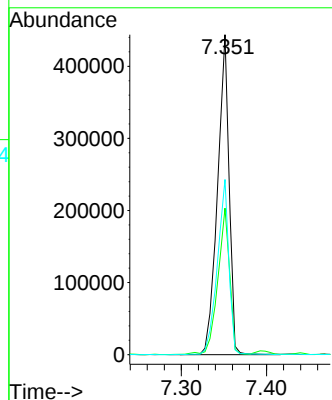
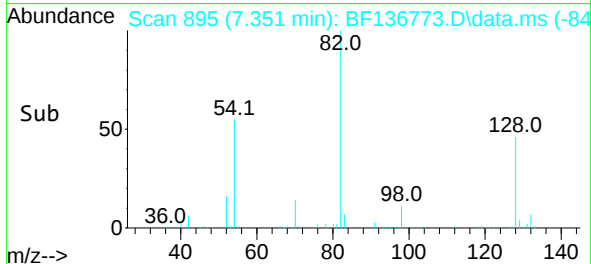
Instrument : BNA_F
ClientSampleId : WC-LIQUIDS-20231213-01



Tgt Ion: 82 Resp: 42055
Ion Ratio Lower Upper
82 100
128 45.8 35.3 52.9
54 54.7 44.5 66.7

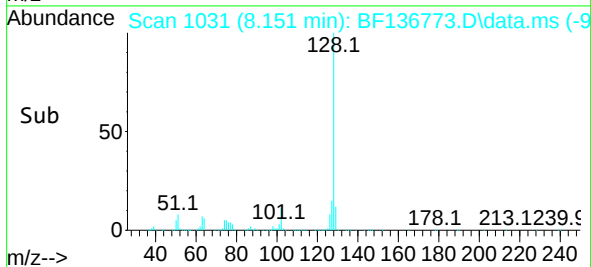
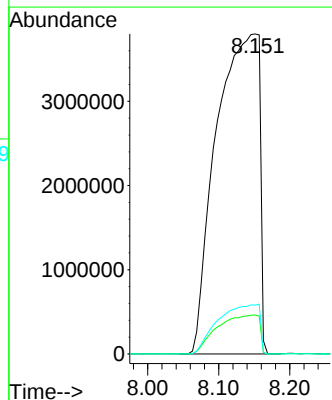
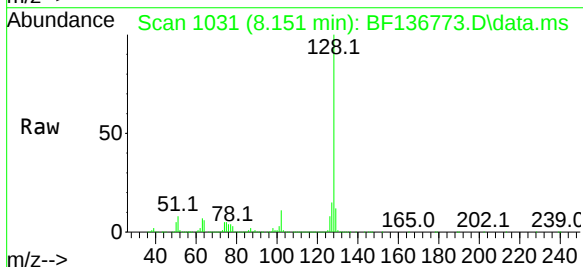
Manual Integrations
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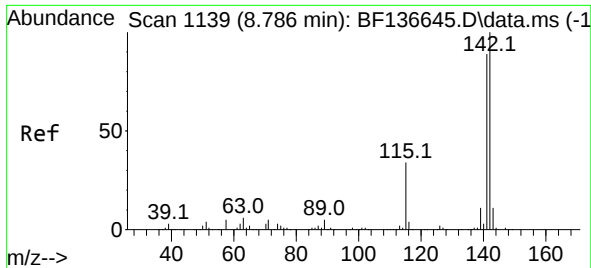
Reviewed By :Yogesh Patel 12/28/2023
Supervised By :mohammad ahmed 12/28/2023



#31
Naphthalene
Concen: 1781.028 ng
RT: 8.151 min Scan# 1031
Delta R.T. 0.059 min
Lab File: BF136773.D
Acq: 27 Dec 2023 23:02

Tgt Ion:128 Resp:16007033
Ion Ratio Lower Upper
128 100
129 12.1 8.7 13.1
127 15.3 10.8 16.2





#37

2-Methylnaphthalene

Concen: 681.342 ng

RT: 8.810 min Scan# 1143

Delta R.T. 0.024 min

Lab File: BF136773.D

Acq: 27 Dec 2023 23:02

Instrument :

BNA_F

ClientSampleId :

WC-LIQUIDS-20231213-01

Tgt Ion:142 Resp: 394095

Ion Ratio Lower Upper

142 100

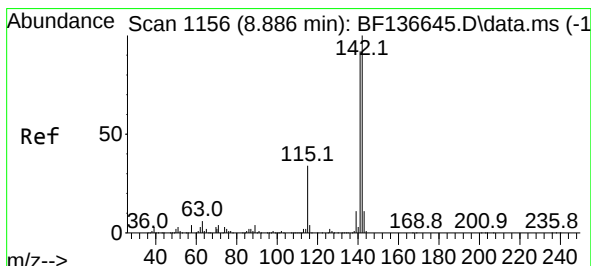
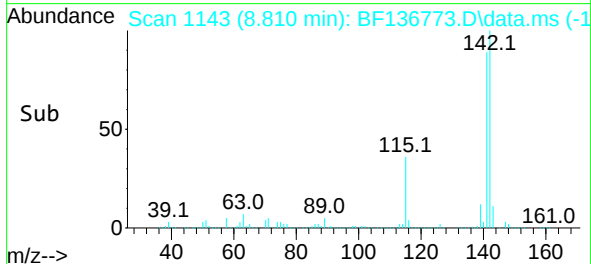
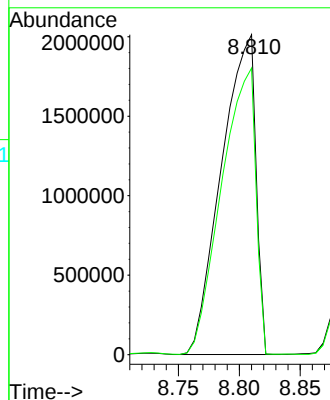
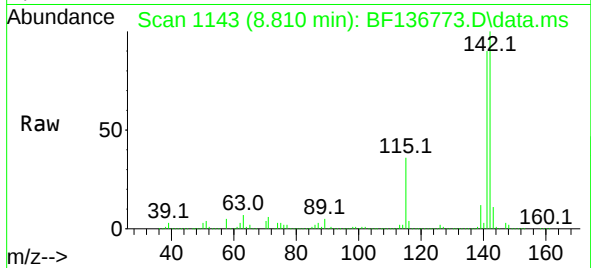
141 89.6 71.1 106.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/28/2023

Supervised By :mohammad ahmed 12/28/2023



#38

1-Methylnaphthalene

Concen: 519.299 ng

RT: 8.910 min Scan# 1160

Delta R.T. 0.024 min

Lab File: BF136773.D

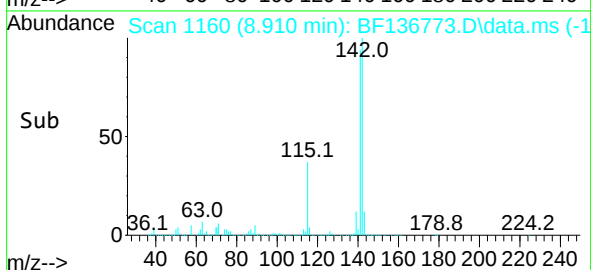
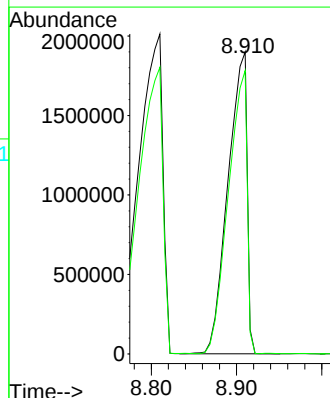
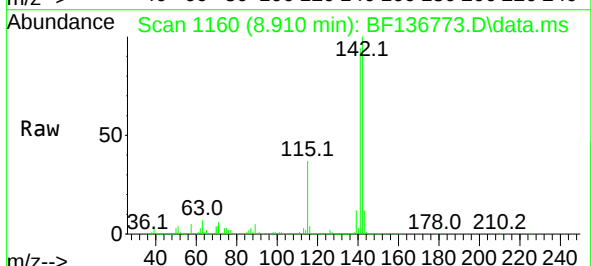
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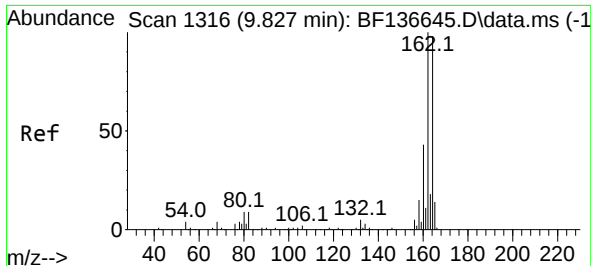
Tgt Ion:142 Resp: 2946867

Ion Ratio Lower Upper

142 100

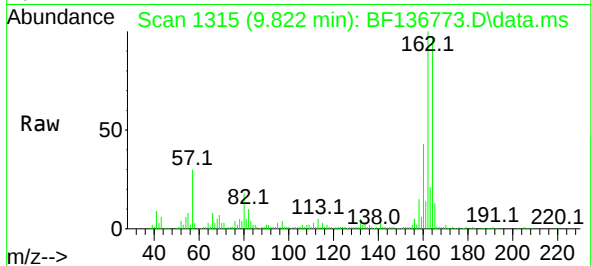
141 93.9 73.6 110.4





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136773.D
Acq: 27 Dec 2023 23:02

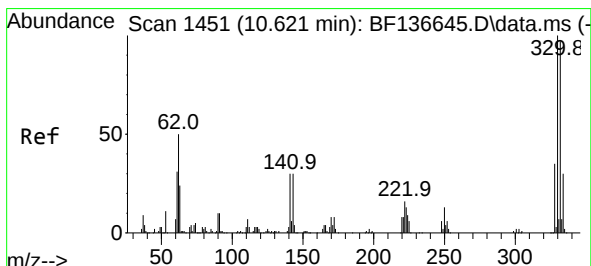
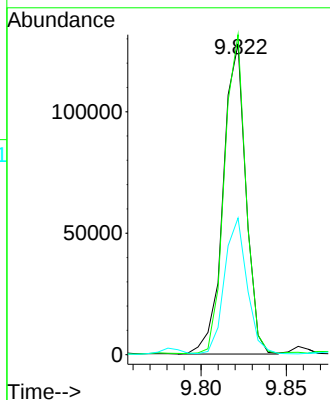
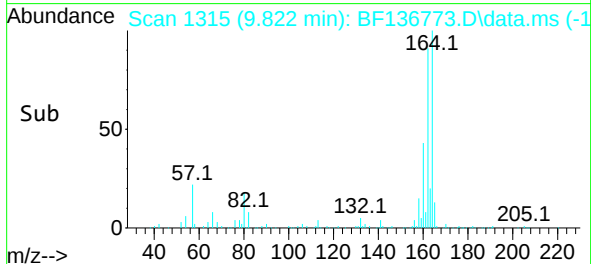
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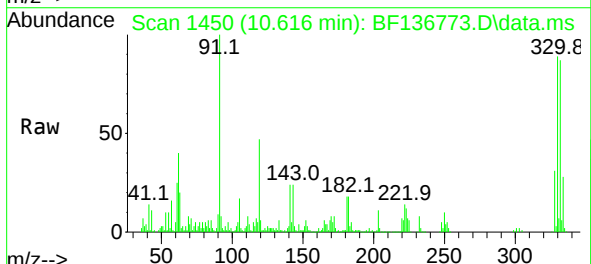
Tgt Ion:164 Resp: 11870
Ion Ratio Lower Upper
164 100
162 103.0 81.6 122.4
160 44.0 34.9 52.3

Manual Integrations
APPROVED

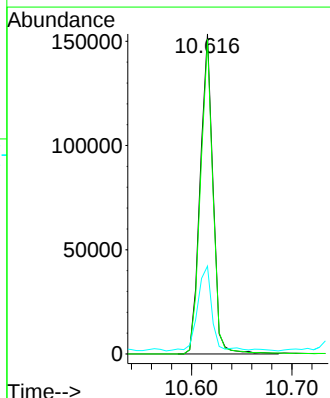
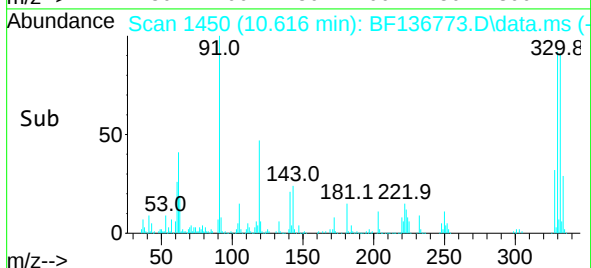
Reviewed By :Yogesh Patel 12/28/2023
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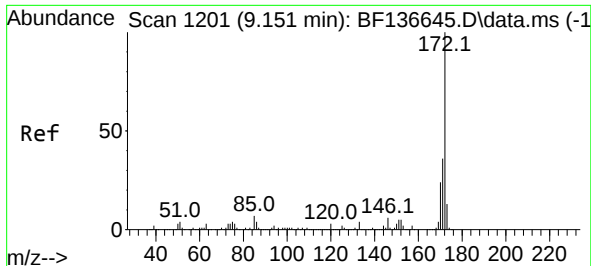


#42
2,4,6-Tribromophenol
Concen: 97.572 ng
RT: 10.616 min Scan# 1450
Delta R.T. -0.006 min
Lab File: BF136773.D
Acq: 27 Dec 2023 23:02



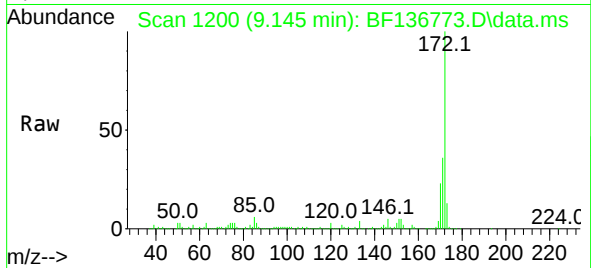
Tgt Ion:330 Resp: 136407
Ion Ratio Lower Upper
330 100
332 96.7 77.4 116.0
141 29.8 23.4 35.2





#45
2-Fluorobiphenyl
Concen: 91.692 ng
RT: 9.145 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136773.D
Acq: 27 Dec 2023 23:02

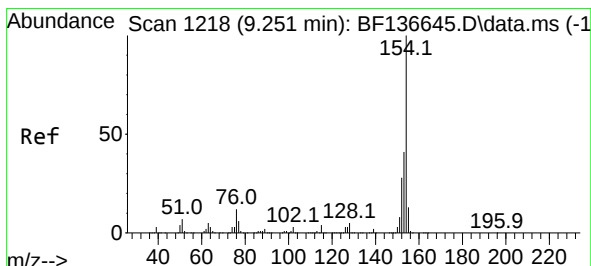
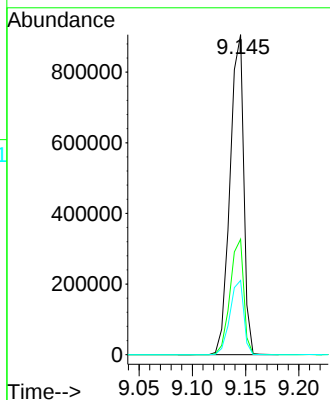
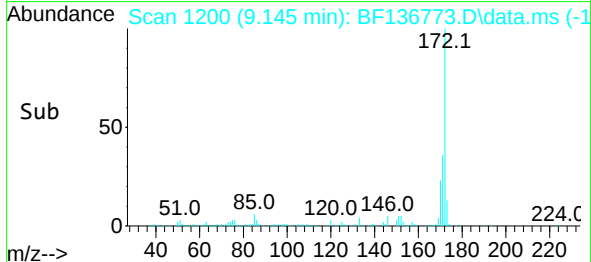
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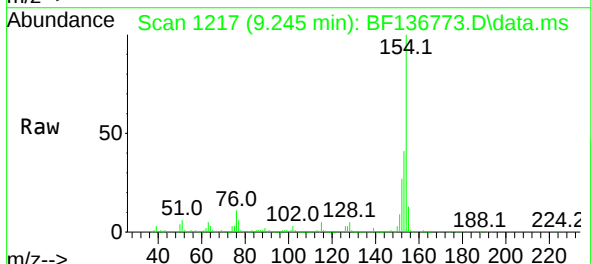
Tgt Ion:172 Resp: 809248
Ion Ratio Lower Upper
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171 36.1 29.0 43.6
170 23.2 19.0 28.4

Manual Integrations
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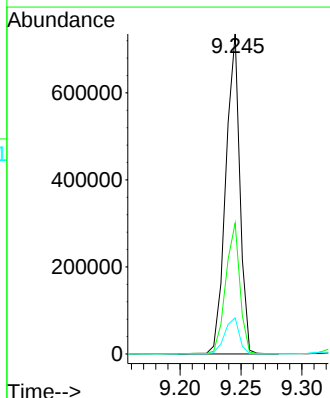
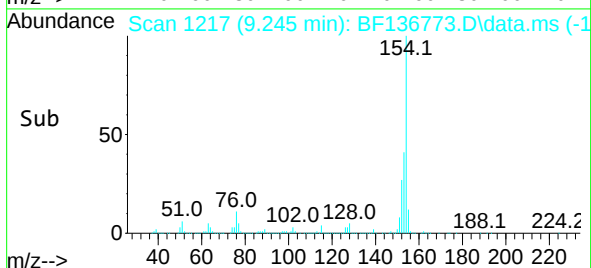
Reviewed By :Yogesh Patel 12/28/2023
Supervised By :mohammad ahmed 12/28/2023

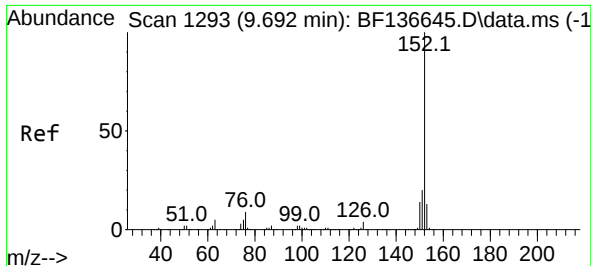


#46
1,1'-Biphenyl
Concen: 59.444 ng
RT: 9.245 min Scan# 1217
Delta R.T. -0.006 min
Lab File: BF136773.D
Acq: 27 Dec 2023 23:02



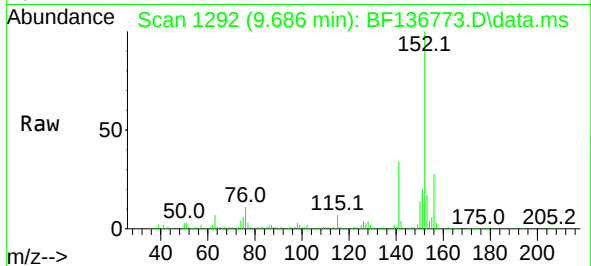
Tgt Ion:154 Resp: 592132
Ion Ratio Lower Upper
154 100
153 40.9 21.1 61.1
76 11.3 0.0 31.7





#49
Acenaphthylene
Concen: 51.119 ng
RT: 9.686 min Scan# 1292
Delta R.T. -0.006 min
Lab File: BF136773.D
Acq: 27 Dec 2023 23:02

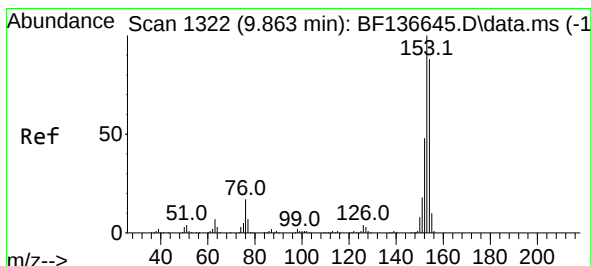
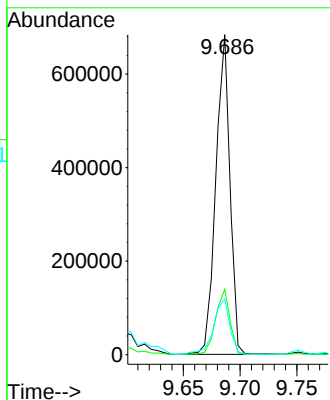
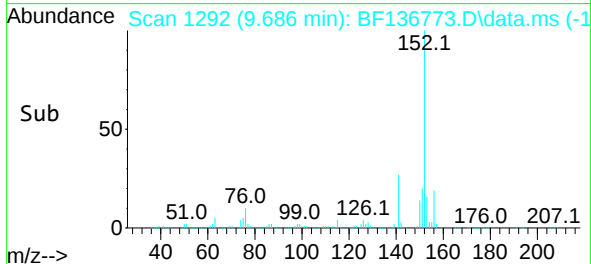
Instrument :
BNA_F
ClientSampleId :
WC-LIQUIDS-20231213-01



Tgt Ion:152 Resp: 591680
Ion Ratio Lower Upper
152 100
151 20.4 16.2 24.4
153 17.4 10.2 15.2

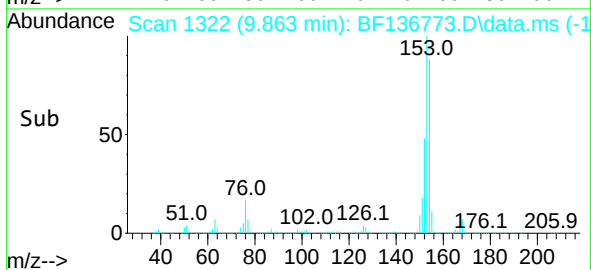
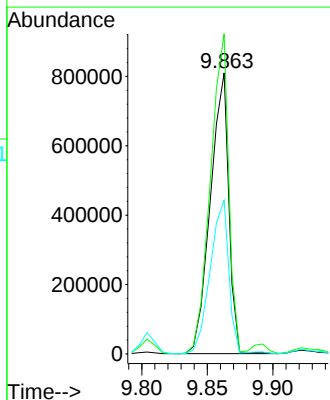
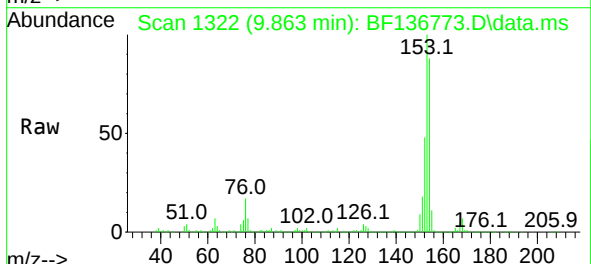
Manual Integrations
APPROVED

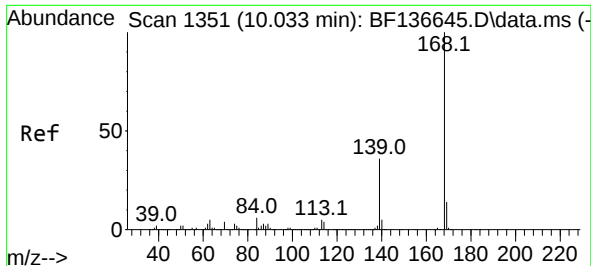
Reviewed By :Yogesh Patel 12/28/2023
Supervised By :mohammad ahmed 12/28/2023



#52
Acenaphthene
Concen: 109.816 ng
RT: 9.863 min Scan# 1322
Delta R.T. 0.000 min
Lab File: BF136773.D
Acq: 27 Dec 2023 23:02

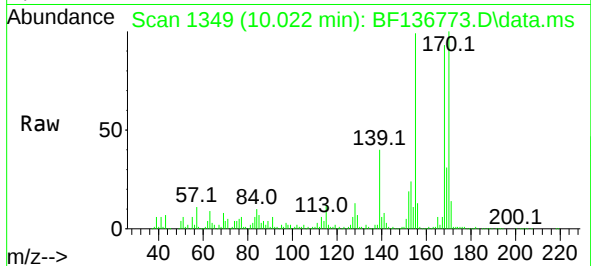
Tgt Ion:154 Resp: 787918
Ion Ratio Lower Upper
154 100
153 113.8 90.7 136.1
152 54.6 43.7 65.5





#55
Dibenzenofuran
Concen: 11.402 ng
RT: 10.022 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF136773.D
Acq: 27 Dec 2023 23:02

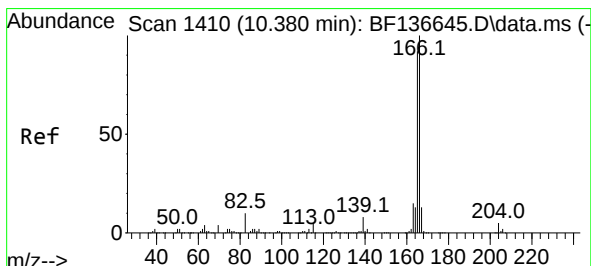
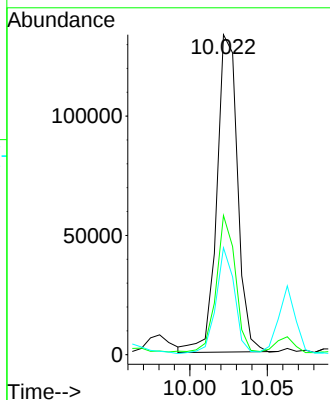
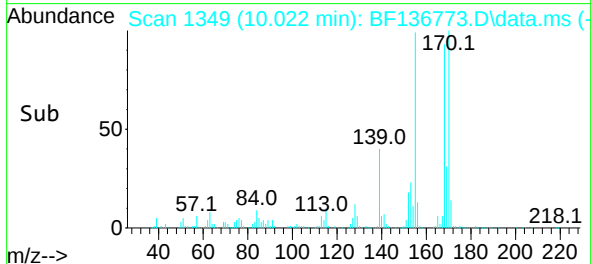
Instrument :
BNA_F
ClientSampleId :
WC-LIQUIDS-20231213-01



Tgt Ion:168 Resp: 12401
Ion Ratio Lower Upper
168 100
139 43.5 29.3 43.9
169 33.4 11.0 16.4

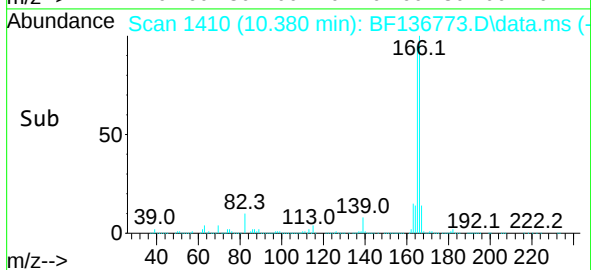
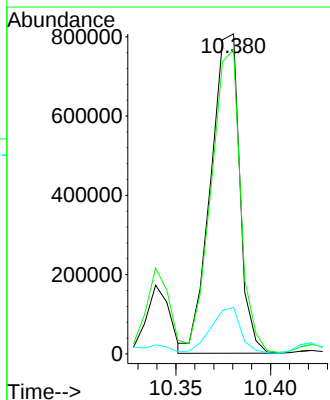
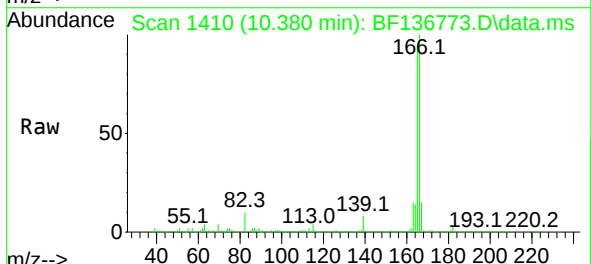
Manual Integrations
APPROVED

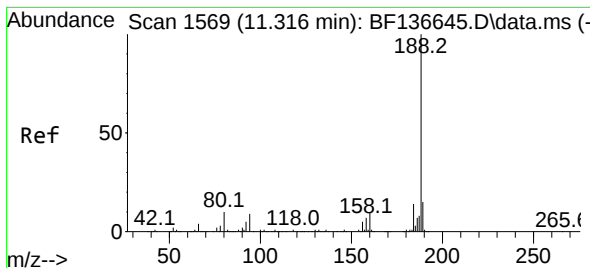
Reviewed By :Yogesh Patel 12/28/2023
Supervised By :mohammad ahmed 12/28/2023



#58
Fluorene
Concen: 99.023 ng
RT: 10.380 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BF136773.D
Acq: 27 Dec 2023 23:02

Tgt Ion:166 Resp: 854554
Ion Ratio Lower Upper
166 100
165 95.1 73.7 110.5
167 14.5 10.4 15.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.316 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF136773.D

Acq: 27 Dec 2023 23:02

Instrument :

BNA_F

ClientSampleId :

WC-LIQUIDS-20231213-01

Tgt Ion:188 Resp: 160400

Ion Ratio Lower Upper

188 100

94 9.6 7.5 11.3

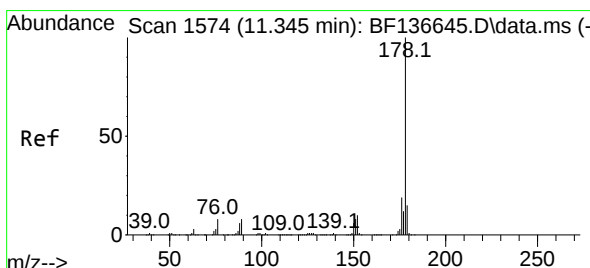
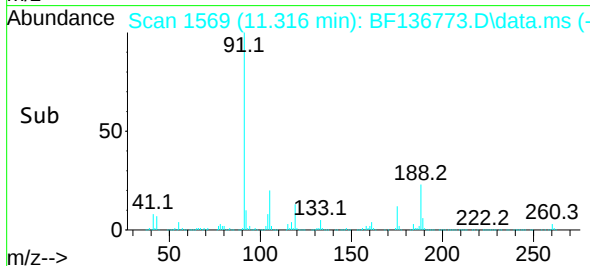
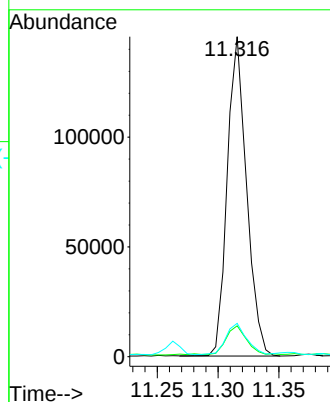
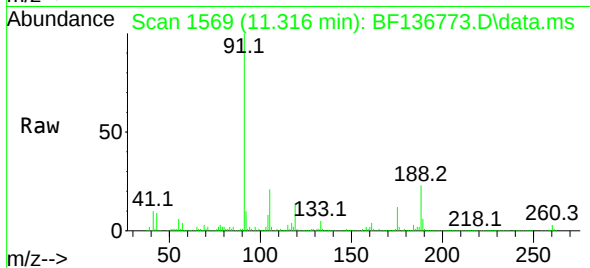
80 10.4 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/28/2023

Supervised By :mohammad ahmed 12/28/2023



#71

Phenanthrene

Concen: 222.135 ng

RT: 11.351 min Scan# 1575

Delta R.T. 0.006 min

Lab File: BF136773.D

Acq: 27 Dec 2023 23:02

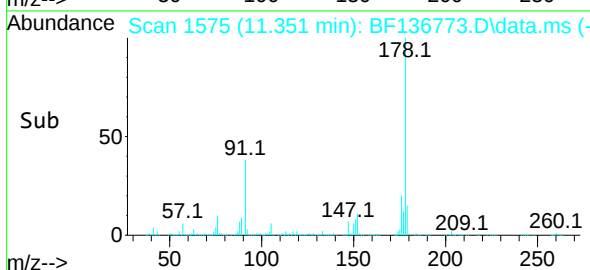
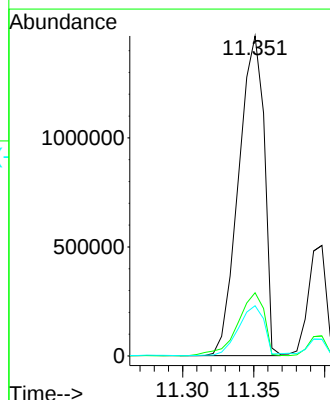
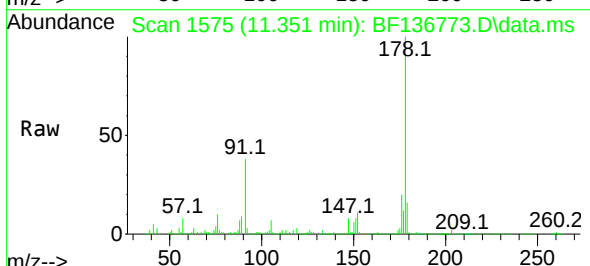
Tgt Ion:178 Resp: 1828227

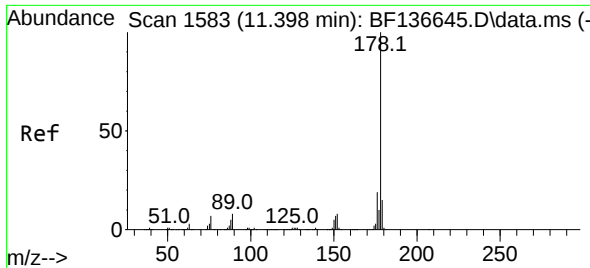
Ion Ratio Lower Upper

178 100

176 19.8 15.3 22.9

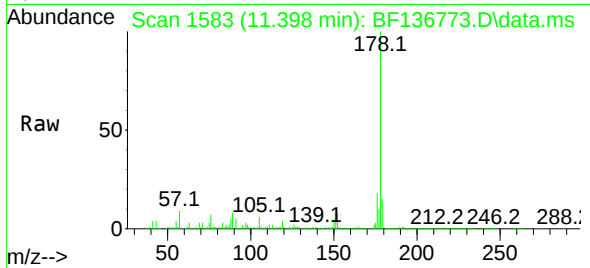
179 15.7 11.9 17.9





#72
 Anthracene
 Concen: 52.421 ng
 RT: 11.398 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: BF136773.D
 Acq: 27 Dec 2023 23:02

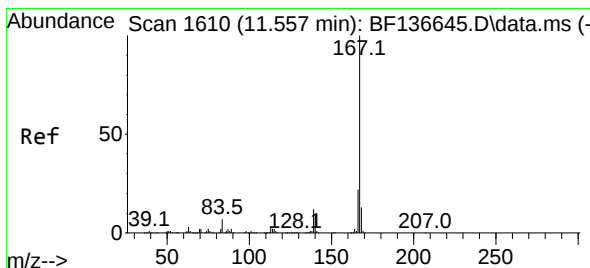
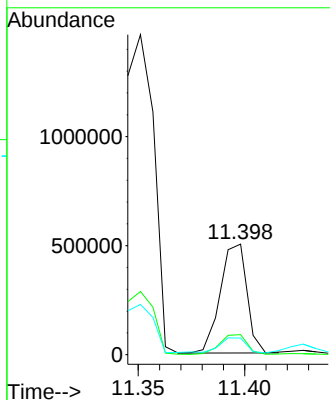
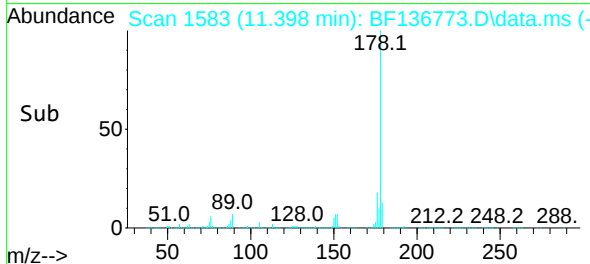
Instrument :
 BNA_F
 ClientSampleId :
 WC-LIQUIDS-20231213-01



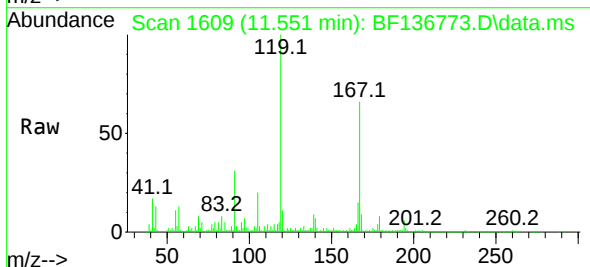
Tgt Ion:178 Resp: 436933
 Ion Ratio Lower Upper
 178 100
 176 18.1 14.9 22.3
 179 15.0 11.8 17.6

Manual Integrations
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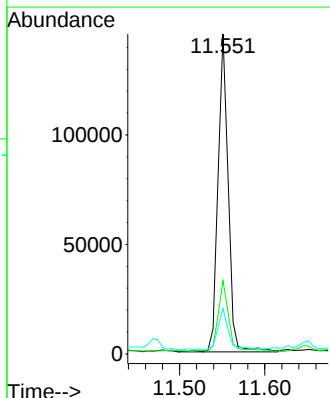
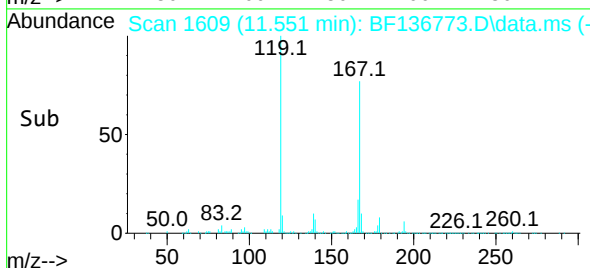
Reviewed By :Yogesh Patel 12/28/2023
 Supervised By :mohammad ahmed 12/28/2023

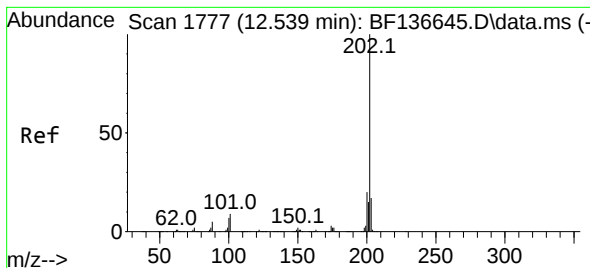


#73
 Carbazole
 Concen: 15.335 ng
 RT: 11.551 min Scan# 1609
 Delta R.T. -0.006 min
 Lab File: BF136773.D
 Acq: 27 Dec 2023 23:02



Tgt Ion:167 Resp: 120510
 Ion Ratio Lower Upper
 167 100
 166 22.9 17.3 25.9
 139 14.2 9.8 14.6





#75

Fluoranthene

Concen: 51.588 ng

RT: 12.545 min Scan# 1

Delta R.T. 0.006 min

Lab File: BF136773.D

Acq: 27 Dec 2023 23:02

Instrument :

BNA_F

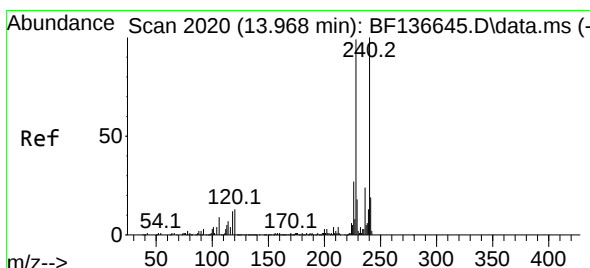
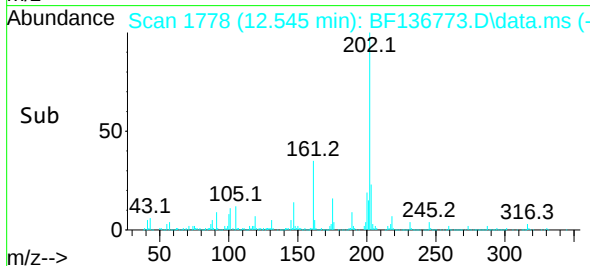
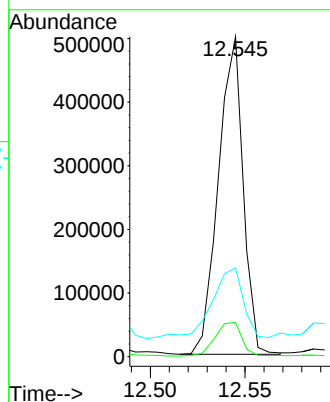
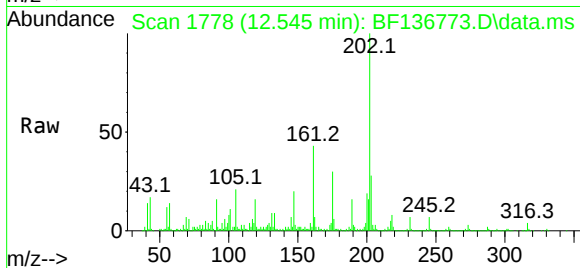
ClientSampleId :

WC-LIQUIDS-20231213-01

Tgt Ion:202 Resp: 45415
 Ion Ratio Lower Upper
 202 100
 101 10.7 0.0 29.3
 203 27.8 0.0 37.1

Manual Integrations
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Reviewed By :Yogesh Patel 12/28/2023
 Supervised By :mohammad ahmed 12/28/2023



#76

Chrysene-d12

Concen: 20.000 ng

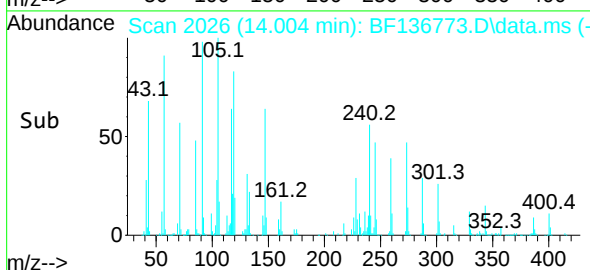
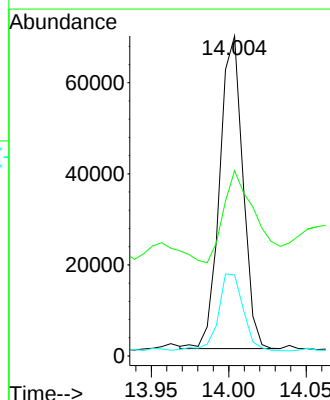
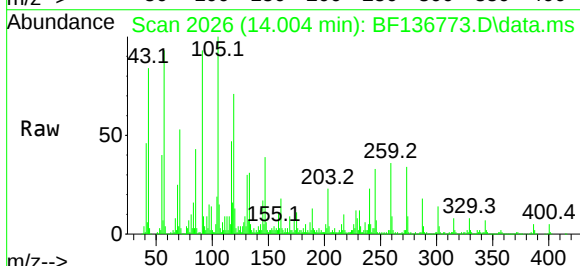
RT: 14.004 min Scan# 2026

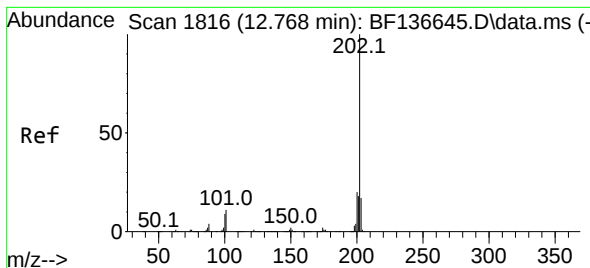
Delta R.T. 0.035 min

Lab File: BF136773.D

Acq: 27 Dec 2023 23:02

Tgt Ion:240 Resp: 71547
 Ion Ratio Lower Upper
 240 100
 120 57.9 10.3 15.5#
 236 25.4 19.4 29.2





#78

Pyrene

Concen: 96.012 ng

RT: 12.780 min Scan# 1816

Delta R.T. 0.012 min

Lab File: BF136773.D

Acq: 27 Dec 2023 23:02

Instrument :

BNA_F

ClientSampleId :

WC-LIQUIDS-20231213-01

Tgt Ion:202 Resp: 67434

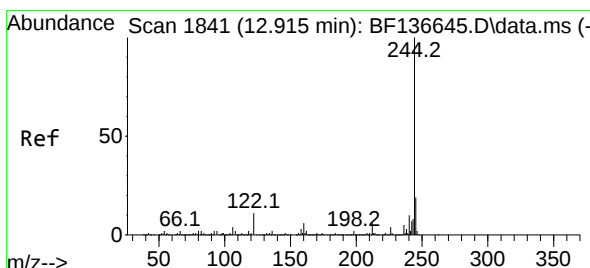
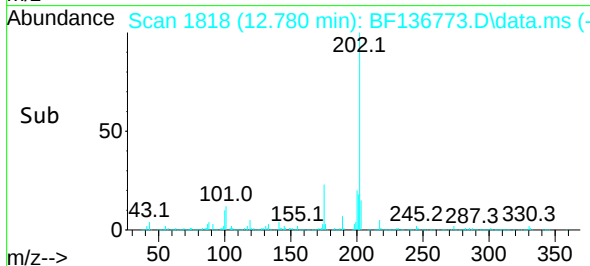
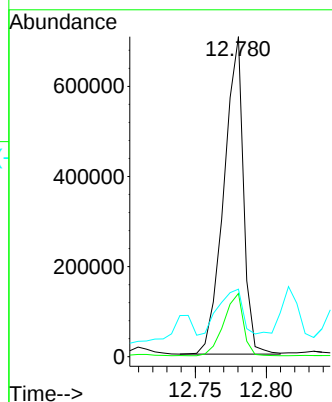
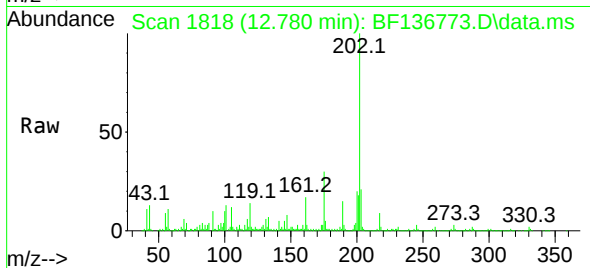
Ion	Ratio	Lower	Upper
202	100		
200	19.8	15.9	23.9
203	21.1	13.8	20.6

Manual Integrations

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Reviewed By :Yogesh Patel 12/28/2023

Supervised By :mohammad ahmed 12/28/2023



#79

Terphenyl-d14

Concen: 94.106 ng

RT: 12.921 min Scan# 1842

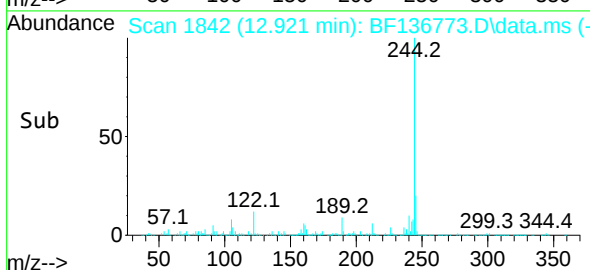
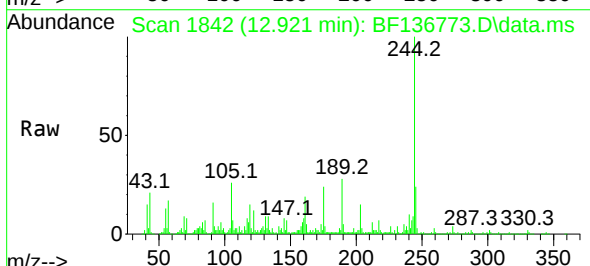
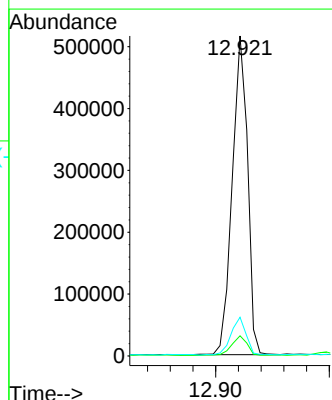
Delta R.T. 0.006 min

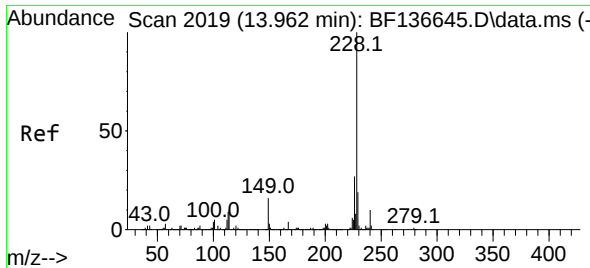
Lab File: BF136773.D

Acq: 27 Dec 2023 23:02

Tgt Ion:244 Resp: 481799

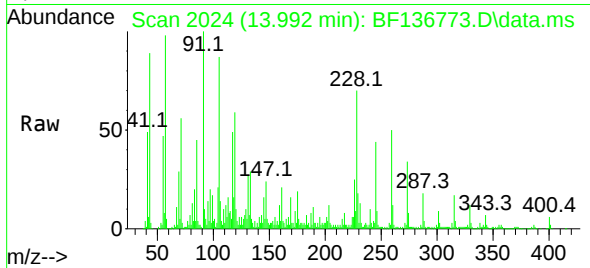
Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.0	7.4
122	12.1	9.0	13.4





#81
Benzo(a)anthracene
Concen: 37.224 ng
RT: 13.992 min Scan# 2019
Delta R.T. 0.030 min
Lab File: BF136773.D
Acq: 27 Dec 2023 23:02

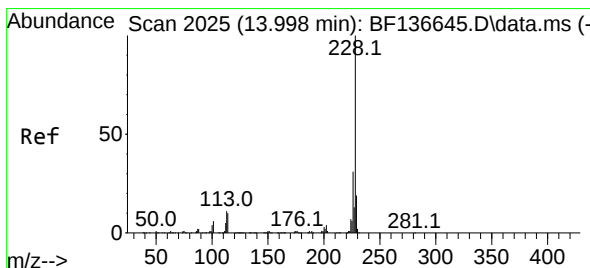
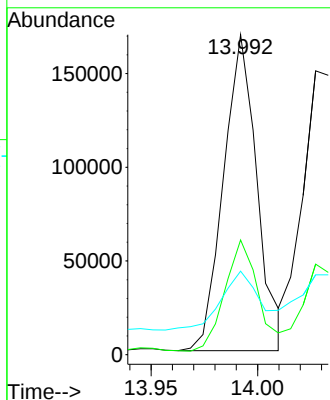
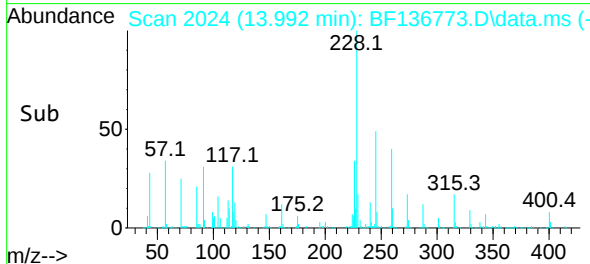
Instrument :
BNA_F
ClientSampleId :
WC-LIQUIDS-20231213-01



Tgt Ion:228 Resp: 18493
Ion Ratio Lower Upper
228 100
226 35.9 21.4 32.0
229 26.1 14.9 22.3

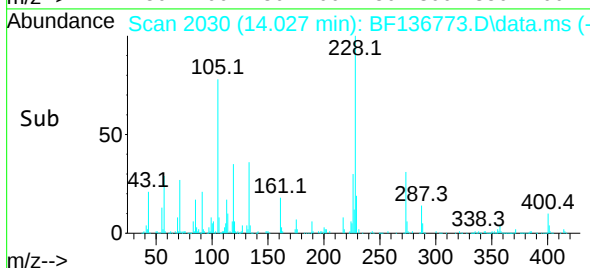
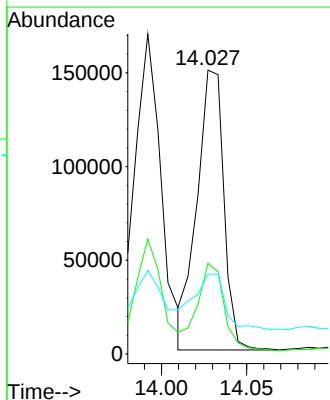
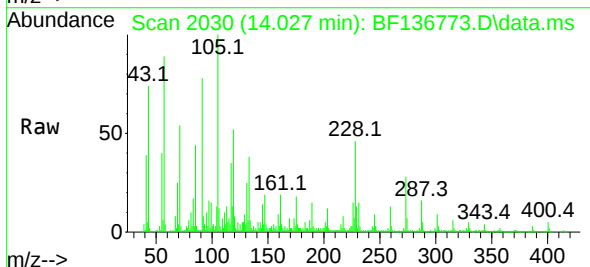
Manual Integrations
APPROVED

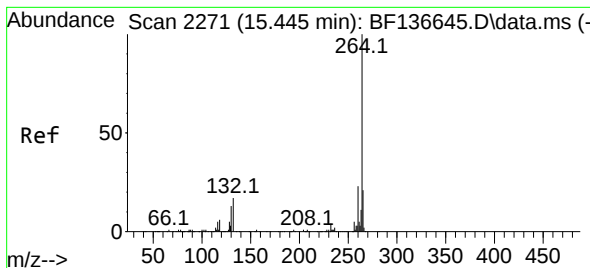
Reviewed By :Yogesh Patel 12/28/2023
Supervised By :mohammad ahmed 12/28/2023



#83
Chrysene
Concen: 33.786 ng
RT: 14.027 min Scan# 2030
Delta R.T. 0.030 min
Lab File: BF136773.D
Acq: 27 Dec 2023 23:02

Tgt Ion:228 Resp: 164146
Ion Ratio Lower Upper
228 100
226 31.9 24.7 37.1
229 28.2 15.4 23.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.510 min Scan# 21

Delta R.T. 0.065 min

Lab File: BF136773.D

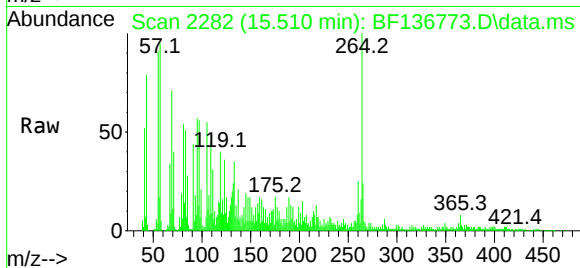
Acq: 27 Dec 2023 23:02

Instrument :

BNA_F

ClientSampleId :

WC-LIQUIDS-20231213-01



Tgt Ion:264 Resp: 106420

Ion Ratio Lower Upper

264 100

260 24.9 18.3 27.5

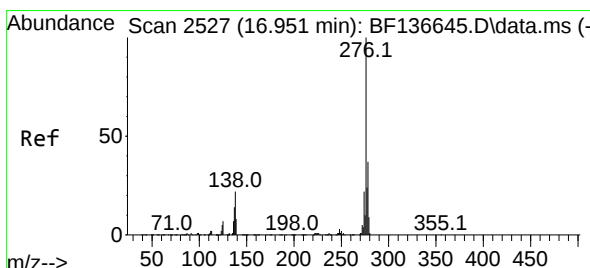
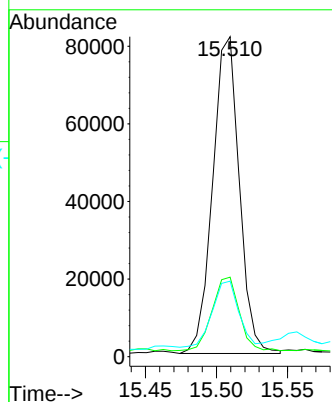
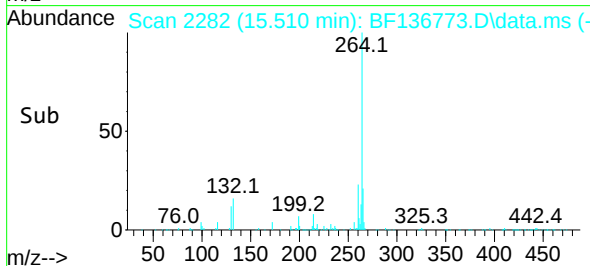
265 23.6 17.0 25.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/28/2023

Supervised By :mohammad ahmed 12/28/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 4.140 ng

RT: 16.998 min Scan# 2535

Delta R.T. 0.047 min

Lab File: BF136773.D

Acq: 27 Dec 2023 23:02

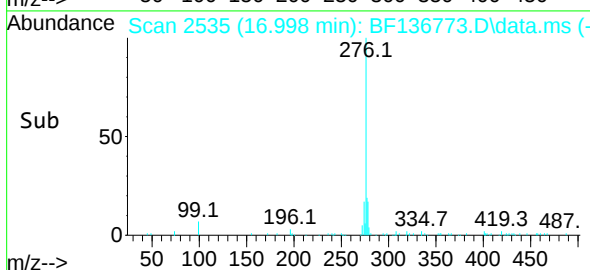
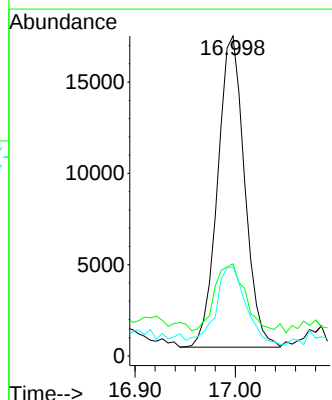
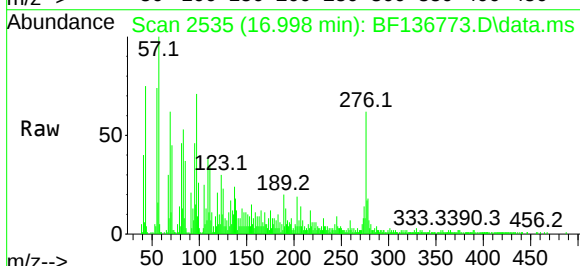
Tgt Ion:276 Resp: 31808

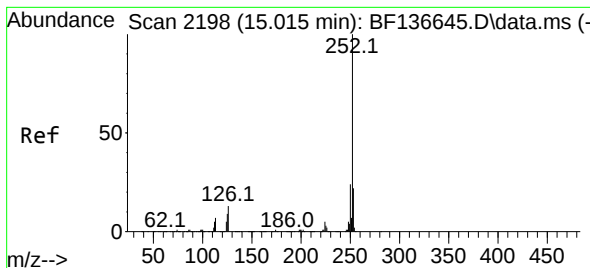
Ion Ratio Lower Upper

276 100

138 23.7 18.7 28.1

277 27.4 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 15.216 ng m

RT: 15.074 min Scan# 2111

Delta R.T. 0.059 min

Lab File: BF136773.D

Acq: 27 Dec 2023 23:02

Instrument :

BNF

ClientSampleId :

WC-LIQUIDS-20231213-01

Tgt Ion:252 Resp: 10815

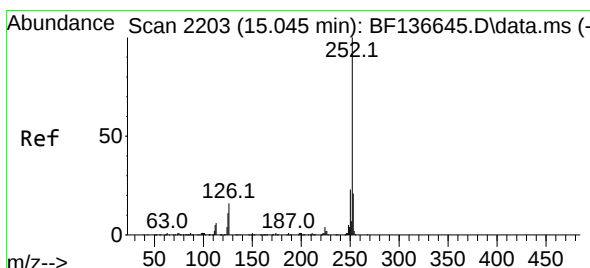
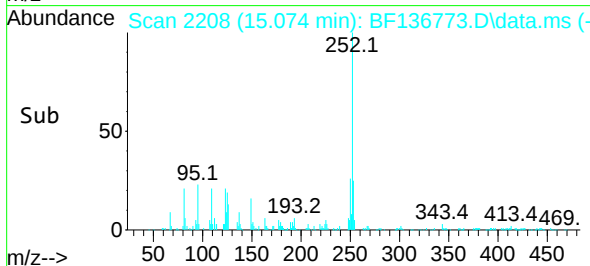
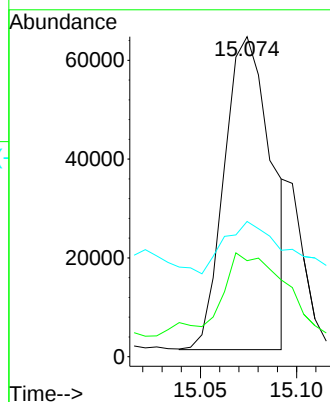
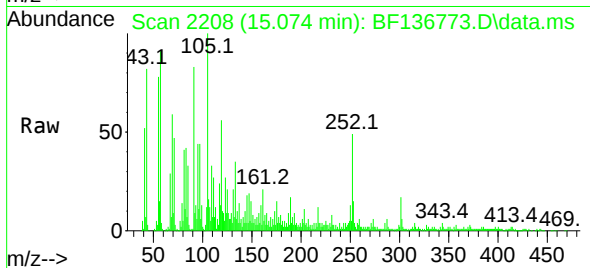
Ion	Ratio	Lower	Upper
252	100		
253	30.0	17.4	26.0
125	42.2	7.4	11.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/28/2023

Supervised By :mohammad ahmed 12/28/2023



#89

Benzo(k)fluoranthene

Concen: 3.586 ng m

RT: 15.092 min Scan# 2211

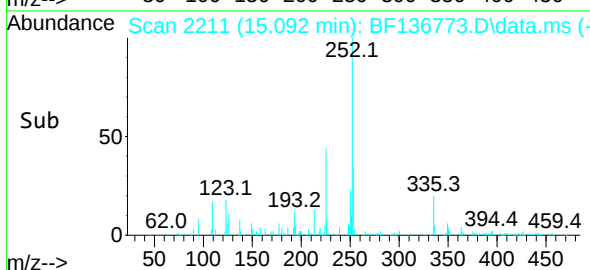
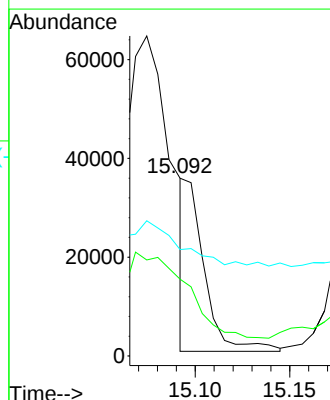
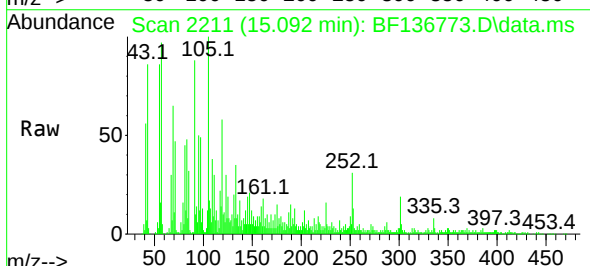
Delta R.T. 0.047 min

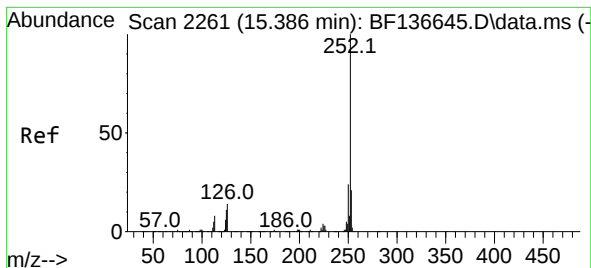
Lab File: BF136773.D

Acq: 27 Dec 2023 23:02

Tgt Ion:252 Resp: 24085

Ion	Ratio	Lower	Upper
252	100		
253	43.2	17.0	25.6
125	59.8	8.2	12.4





#90

Benzo(a)pyrene

Concen: 19.766 ng

RT: 15.445 min Scan# 21

Delta R.T. 0.059 min

Lab File: BF136773.D

Acq: 27 Dec 2023 23:02

Instrument :

BNA_F

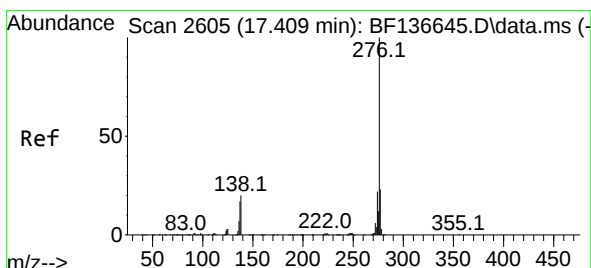
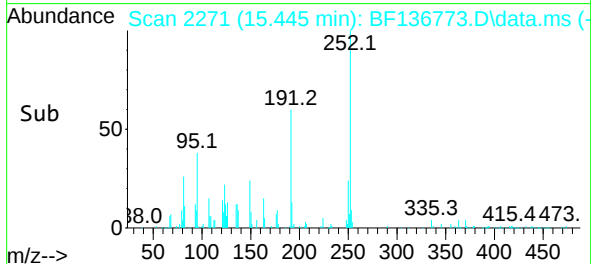
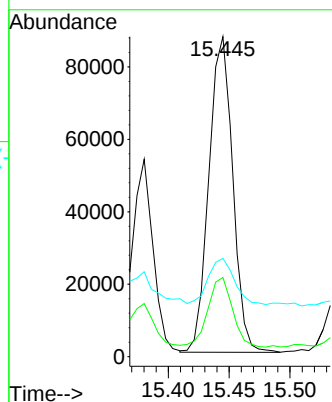
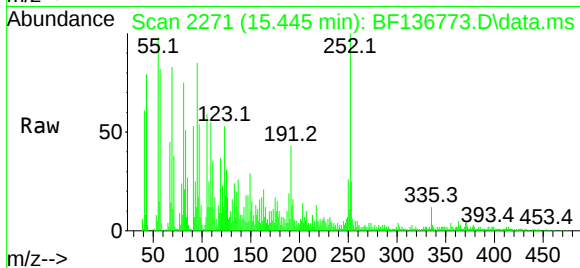
ClientSampleId :

WC-LIQUIDS-20231213-01

Tgt Ion:252 Resp: 11859
 Ion Ratio Lower Upper
 252 100
 253 24.7 17.0 25.6
 125 30.7 8.8 13.2

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 12/28/2023
 Supervised By :mohammad ahmed 12/28/2023



#92

Benzo(g,h,i)perylene

Concen: 4.762 ng

RT: 17.451 min Scan# 2612

Delta R.T. 0.041 min

Lab File: BF136773.D

Acq: 27 Dec 2023 23:02

Tgt Ion:276 Resp: 30748
 Ion Ratio Lower Upper
 276 100
 277 30.7 18.3 27.5#
 138 27.0 15.6 23.4#

