

Report No. : 221149WA221156



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**Report on Calibration of HORIBA Multifunction Meter****Information Supplied by Client**

Client : ENVIROTECH SERVICE COMPANY  
Client's address : RM721, 7/F, MY LOFT, 9 HOI WING ROAD, TUEN MUN, N.T.,  
HONG KONG

**Calibration Item**

Description : Multifunctional Meter  
Manufacturer : HORIBA  
Model : U-5000  
Serial No. : -  
Equipment No. : UAMJ30TE

**Laboratory Information**

Lab. sample ID : WA221156/1  
Date sample received : 01/06/2022  
Date of calibration : 10/06/2022  
Next calibration date : 09/09/2022  
Test method used : In-house comparison method

*Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.*

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**Results :**
**A. pH calibration**

pH value at 25°C			
Theoretical	Measured	Deviation (pH value)	Maximum acceptable Deviation (pH value)
4.0	3.98	-0.02	±0.20
7.0	6.99	-0.01	
10.0	9.90	-0.10	

**B. Salinity calibration**

Salinity, ppt			
Theoretical	Measured	Deviation (%)	Maximum acceptable Deviation (%)
0	0.01	+0.01	±10.0
10	10.34	+0.34	
20	20.30	+0.30	
30	30.28	+0.28	
40	39.89	-0.11	

**C. Dissolved Oxygen calibration**

Dissolved oxygen content, mg/L			
Theoretical	Measured	Deviation (mg/L)	Maximum acceptable Deviation (mg/L)
8.15	8.15	0.00	±0.20
5.14	4.99	-0.15	

 Certified by : Chan Hoi Yan  
 Approved Signatory : CHAN Hoi Yan, Winnie  
 Assistant Manager

 Date : 16-6-2022
*Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.*

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**Results :**
**D. Temperature calibration**

Temperature, °C			
Thermometer reading	Measured	Deviation (°C)	Maximum acceptable Deviation (°C)
10.0	10.91	+0.91	±2.0
21.8	22.39	+0.59	
39.5	39.86	+0.36	

**E. Turbidity calibration**

Turbidity, N.T.U.			
Theoretical	Measured	Deviation (%)	Maximum acceptable Deviation (%)
0	0.00	-	±10.0
4	3.82	-0.18	
40	40.2	-0.18	
80	79.5	+0.8	
400	397	-0.5	
800	805	+0.4	

**F. Conductivity calibration**

Conductivity, µS/cm			
Theoretical	Measured	Deviation (%)	Maximum acceptable Deviation (%)
146.9	152	+3.5	±10.0
1408	1520	+8.0	
6667	6530	-2.1	
12890	13500	+4.7	
24820	25100	+1.1	

 Certified by : Chan Hoi Yan  
 Approved Signatory : CHAN Hoi Yan, Winnie  
 Assistant Manager

 Date : 16.6.2022
**\*\* End of Report \*\***
*Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.*

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**Report on Calibration of HORIBA Multifunction Meter****Information Supplied by Client**

Client : ENVIROTECH SERVICE COMPANY  
Client's address : RM721, 7/F, MY LOFT, 9 HOI WING ROAD, TUEN MUN, N.T.,  
HONG KONG

**Calibration Item**

Description : Multifunctional Meter  
Manufacturer : HORIBA  
Model : U-53  
Serial No. : LuAVCDWu  
Equipment No. : FXMONLLF

**Laboratory Information**

Lab. sample ID : WA221718/1  
Date sample received : 23/08/2022  
Date of calibration : 06/09/2022  
Next calibration date : 05/12/2022  
Test method used : In-house comparison method

*Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.*

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**Results :**
**A. pH calibration**

pH value at 25°C			
Theoretical	Measured	Deviation (pH value)	Maximum acceptable Deviation (pH value)
4.00	4.00	0.00	±0.20
6.86	6.80	-0.06	
9.18	9.02	-0.16	

**B. Salinity calibration**

Salinity, ppt			
Theoretical	Measured	Deviation (%)	Maximum acceptable Deviation (%)
1	0.96	-0.04	±10.0
10	10.18	+1.8	
20	19.94	-0.03	
30	29.88	-0.4	
40	39.56	-1.1	

**C. Dissolved Oxygen calibration**

Dissolved oxygen content, mg/L			
Theoretical	Measured	Deviation (mg/L)	Maximum acceptable Deviation (mg/L)
7.98	7.85	-0.13	±0.20
5.47	5.44	-0.03	
2.94	2.98	+0.04	

Remark : 1. This report is to supersede our former report #221149WA221718.  
 2. Amendment detail : Amend the pH calibration result.

Certified by : Chan Hoi Yan  
 Approved Signatory : CHAN Hoi Yan, Winnie  
 Assistant Manager

Date : 19-9-2011

*Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.*

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**Results :**
**D. Temperature calibration**

Temperature, °C			
Thermometer reading	Measured	Deviation (°C)	Maximum acceptable Deviation (°C)
23.5	23.96	+0.46	±2.0

**E. Turbidity calibration**

Turbidity, N.T.U.			
Theoretical	Measured	Deviation (%)	Maximum acceptable Deviation (%)
4	4.24	+6	±10.0
8	8.48	+6	
40	40.3	+0.8	
100	98.1	-1.9	

**F. Conductivity calibration**

Conductivity, µS/cm			
Theoretical	Measured	Deviation (%)	Maximum acceptable Deviation (%)
147	159	+8.2	±10.0
1408	1390	-1.3	
6668	6320	-5.2	
12860	12800	-0.47	
24820	24100	-2.9	

 Remark : 1. This report is to supersede our former report #221149WA221718.  
 2. Amendment detail : Amend the pH calibration result.

 Certified by :   
 Approved Signatory : CHAN Hoi Yan, Winnie  
 Assistant Manager

 Date :   
 \*\* End of Report \*\*

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.