

<b>Prüfbericht-Nr.:</b> <i>Test report no.:</i>	<b>CN21HH0Z 008</b>	<b>Auftrags-Nr.:</b> <i>Order no.:</i>	<b>168413415</b>	Seite 1 von 20 <i>Page 1 of 20</i>
<b>Kunden-Referenz-Nr.:</b> <i>Client reference no.:</i>	N/A	<b>Auftragsdatum:</b> <i>Order date:</i>	2023-02-07	
<b>Auftraggeber:</b> <i>Client:</i>	<b>SZ DJI TECHNOLOGY CO., LTD.</b> Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, Shenzhen, China			
<b>Prüfgegenstand:</b> <i>Test item:</i>	Matrice 30, Matrice 30T			
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type no.:</i>	M30 RTK, M30T RTK			
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	CIIPC Test Report			
<b>Prüfgrundlage:</b> <i>Test specification:</i>	CFR47 FCC Part 15: Subpart E Section 15.407 CFR47 FCC Part 15: Subpart C Section 15.209			
<b>Wareneingangsdatum:</b> <i>Date of sample receipt:</i>	2023-04-10	Please refer to photo documents		
<b>Prüfmuster-Nr.:</b> <i>Test sample no.:</i>	A003459613-001 A003424327-002			
<b>Prüfzeitraum:</b> <i>Testing period:</i>	2023-05-06 to 2023-05-12			
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
<b>Prüfergebnis*:</b> <i>Test result*:</i>	Pass			
<b>geprüft von:</b> <i>tested by:</i>	 Hardy Suo		<b>genehmigt von:</b> <i>authorized by:</i>	 Lin Lin
<b>Datum:</b> <i>Date:</i>	2023-05-17		<b>Ausstellungsdatum:</b> <i>Issue date:</i>	2023-05-17
<b>Stellung / Position:</b>	Sachverständige(r)/Expert		<b>Stellung / Position:</b>	Sachverständige(r)/Expert
<b>Sonstiges /</b> <i>Other:</i>	FCC ID: SS3-M302110 This report is for 5.2GHz SDR (enabling SDR 5170-5250 MHz operating frequency band through software).			
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)    F(ail) = entspricht nicht o.g. Prüfgrundlage(n)    N/A = nicht anwendbar    N/T = nicht getestet * Legend: P(ass) = passed a.m. test specification(s)    F(ail) = failed a.m. test specification(s)    N/A = not applicable    N/T = not tested			
<b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b> <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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## TEST SUMMARY

**5.1.1 ANTENNA REQUIREMENT**

RESULT: Pass

**5.1.2 MAXIMUM OUTPUT POWER**

RESULT: Pass

**5.1.3 POWER SPECTRAL DENSITY**

RESULT: Pass

**5.1.4 FREQUENCY STABILITY**

RESULT: Pass

**5.1.5 26DB BANDWIDTH**

RESULT: Pass

**5.1.6 RADIATED SPURIOUS EMISSION**

RESULT: Pass

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## **1. General Remarks**

### **1.1 Complementary Materials**

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of 5.2GHz SDR

Appendix B: Photographs of the Test Set-up

## 2. Test Sites

### 2.1 Test Facilities

**TÜV Rheinland (Shenzhen) Co., Ltd.**

No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, People's Republic of China

FCC Registration No.: 694916

ISED Wireless Device Testing Laboratory: 25069

### 2.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**

<b>Radio Spectrum Testing (TS8997)</b>				
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Serial No.</b>	<b>Cal. until</b>
Signal Analyzer	R&S	FSV 40	101441	2023-08-01
OSP	R&S	OSP 150	101017	2023-11-21
Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A
Test Software	R&S	WMS32 (V11.00.00)	N/A	N/A
Power Meter	R&S	NRP2	107105	2023-11-21
Wideband Power Sensor	R&S	NRP-Z81	105677	2023-08-01
Shielding Room 8#	Albatross	SR8	APC17151-SR8	2024-06-22
<b>Unwanted Emission Testing (TS9975)</b>				
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Serial No.</b>	<b>Cal. until</b>
EMI Test Receiver	R&S	ESR 7	102021	2023-08-02
Signal Analyzer	R&S	FSV 40	101439	2023-08-01
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	2023-08-01
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2023-08-02
Amplifier	R&S	SCU-18F	180070	2023-08-02
Amplifier	R&S	SCU40A	100475	2023-08-02
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2024-08-06
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	2024-08-06
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2024-08-27
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2023-08-06
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-06-22

### 2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

## 2.5 Uncertainty of Measurement

The value of the measurement uncertainty of each parameter is listed as below:

**Table 2: Measurement Uncertainty**

Parameter	Uncertainty
RF output power, conducted	± 0.99 dB
Occupied Channel Bandwidth	± 2.08 %
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	± 4.17 dB

## 2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

## 2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, People's Republic of China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

### 3. General Product Information

#### 3.1 Product Function and Intended Use

The EUT (Equipment Under Test) is an aircraft (Matrice 30 with model M30 RTK, Matrice 30T with model M30T RTK). It supports 2.4GHz SDR, 5.2GHz SDR, 5.8GHz SDR, GNSS and ADS-B functions.  
 \*remark: SDR means specific defined radio, and cannot changes radio specification via software/firmware by end-users.

According to the declaration of the applicant, the electrical circuit design and PCB layout are identical for M30 RTK, M30T RTK, except M30T RTK supports infrared camera.

For details refer to the User Manual, Technical Description and Circuit Diagram.

#### 3.2 Ratings and System Details

**Table 3: Technical Specification**

General Information of EUT	Value
Kind of Equipment	Matrice 30, Matrice 30T
Type Designation	M30 RTK, M30T RTK
Trademark	DJI
Operating Temperature Range	-20 °C ~ +50 °C
Operating Voltage	Battery operated (DC 22.38V, 5880mAh) or Charging by Dock Bundle
Testing Voltage	Built-in battery
Radiofrequency operating mode	1) 2.4GHz SDR: operating within 2400-2483.5MHz, supports 1.4MHz/3MHz/10MHz/20MHz/40MHz Bandwidth 2) 5.2GHz SDR: operating within 5170-5250MHz, supports 10MHz/20MHz/40MHz Bandwidth 3) 5.8GHz SDR: operating within 5725-5850MHz, supports 1.4MHz/3MHz/10MHz/20MHz/40MHz Bandwidth 4) GPS & BDS & Galileo (receiver): operating within 1559-1610MHz 5) ADS-B (receiver): operating at 978MHz (1MHz Bandwidth) and 1090MHz (2MHz Bandwidth)
Technical Specification of 5.2GHz SDR	
Operating Frequency	5157-5245MHz for 10MHz Bandwidth 5161-5240MHz for 20MHz Bandwidth 5170-5230MHz for 40MHz Bandwidth
Type of Modulation	OFDM (QPSK, 16QAM, 64QAM)
Channel Number	89 channels for 10MHz Bandwidth 80 channels for 20MHz Bandwidth 61 channels for 40MHz Bandwidth
Channel Separation	1MHz for 10MHz Bandwidth 1MHz for 20MHz Bandwidth 1MHz for 40MHz Bandwidth
Antenna Type	Integral Antennas
Antenna Number	1Tx4Rx for SISO mode (ANT0 or ANT1 or ANT2 or ANT3) 2Tx4Rx for MIMO mode (ANT0+ANT1, or ANT0+ANT3, or

	ANT2+ANT1, or ANT2+ANT3)
Antenna Gain	3.5dBi for ANT0 1.9dBi for ANT1 1.9dBi for ANT2 3.5dBi for ATN3
The type of wideband data transmission equipment	DTS

**Table 4: RF Channel and Frequency of 5.2GHz SDR**

5.2GHz 10MHzBandwidth (5157MHz-5245MHz)							
RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
1	5157	24	5180	47	5203	70	5226
2	5158	25	5181	48	5204	71	5227
3	5159	26	5182	49	5205	72	5228
4	5160	27	5183	50	5206	73	5229
5	5161	28	5184	51	5207	74	5230
6	5162	29	5185	52	5208	75	5231
7	5163	30	5186	53	5209	76	5232
8	5164	31	5187	54	5210	77	5233
9	5165	32	5188	55	5211	78	5234
10	5166	33	5189	56	5212	79	5235
11	5167	34	5190	57	5213	80	5236
12	5168	35	5191	58	5214	81	5237
13	5169	36	5192	59	5215	82	5238
14	5170	37	5193	60	5216	83	5239
15	5171	38	5194	61	5217	84	5240
16	5172	39	5195	62	5218	85	5241
17	5173	40	5196	63	5219	86	5242
18	5174	41	5197	64	5220	87	5243
19	5175	42	5198	65	5221	88	5244
20	5176	43	5199	66	5222	89	5245
21	5177	44	5200	67	5223		
22	5178	45	5201	68	5224		
23	5179	46	5202	69	5225		

5.2GHz 20MHzBandwidth (5161MHz-5240MHz)							
RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
1	5161	21	5181	41	5201	61	5221
2	5162	22	5182	42	5202	62	5222
3	5163	23	5183	43	5203	63	5223
4	5164	24	5184	44	5204	64	5224
5	5165	25	5185	45	5205	65	5225



6	5166	26	5186	46	5206	66	5226
7	5167	27	5187	47	5207	67	5227
8	5168	28	5188	48	5208	68	5228
9	5169	29	5189	49	5209	69	5229
10	5170	30	5190	50	5210	70	5230
11	5171	31	5191	51	5211	71	5231
12	5172	32	5192	52	5212	72	5232
13	5173	33	5193	53	5213	73	5233
14	5174	34	5194	54	5214	74	5234
15	5175	35	5195	55	5215	75	5235
16	5176	36	5196	56	5216	76	5236
17	5177	37	5197	57	5217	77	5237
18	5178	38	5198	58	5218	78	5238
19	5179	39	5199	59	5219	79	5239
20	5180	40	5200	60	5220	80	5240

5.2GHz 40MHzBandwidth (5170MHz-5230MHz)							
RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
1	5170	17	5186	33	5202	49	5218
2	5171	18	5187	34	5203	50	5219
3	5172	19	5188	35	5204	51	5220
4	5173	20	5189	36	5205	52	5221
5	5174	21	5190	37	5206	53	5222
6	5175	22	5191	38	5207	54	5223
7	5176	23	5192	39	5208	55	5224
8	5177	24	5193	40	5209	56	5225
9	5178	25	5194	41	5210	57	5226
10	5179	26	5195	42	5211	58	5227
11	5180	27	5196	43	5212	59	5228
12	5181	28	5197	44	5213	60	5229
13	5182	29	5198	45	5214	61	5230
14	5183	30	5199	46	5215		
15	5184	31	5200	47	5216		
16	5185	32	5201	48	5217		

### 3.3 Independent Operation Modes

The basic operation modes are:

- A. On, 5.2GHz SDR wireless transmitting mode
  - 1) Low Channel
  - 2) Middle Channel
  - 3) High Channel
- B. Off

### 3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

### 3.5 Submitted Documents

- Application Form
- Block Diagram
- User Manual
- Rating Label

## 4. Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

**Radio Spectrum:** The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

### 4.2 Test Operation

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all tests were performed on model M30 RTK in this report.

### 4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Laptop	Lenovo	T480	PF-16A6N8

### 4.4 Countermeasures to Achieve ERM Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF). No additional measures were employed to achieve compliance.

### 4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

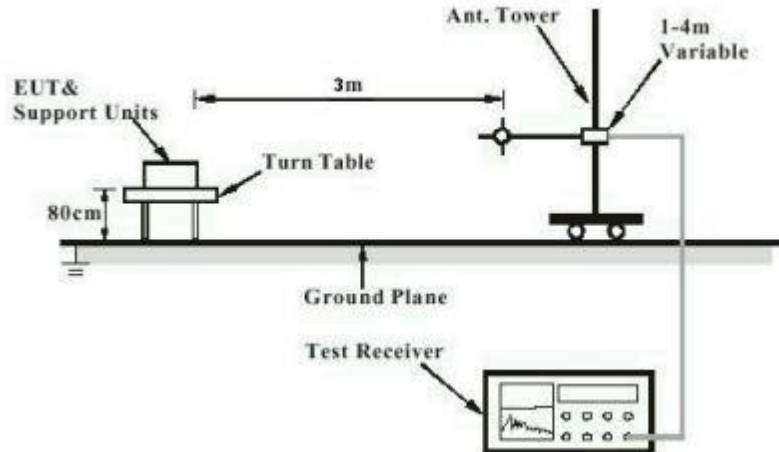


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

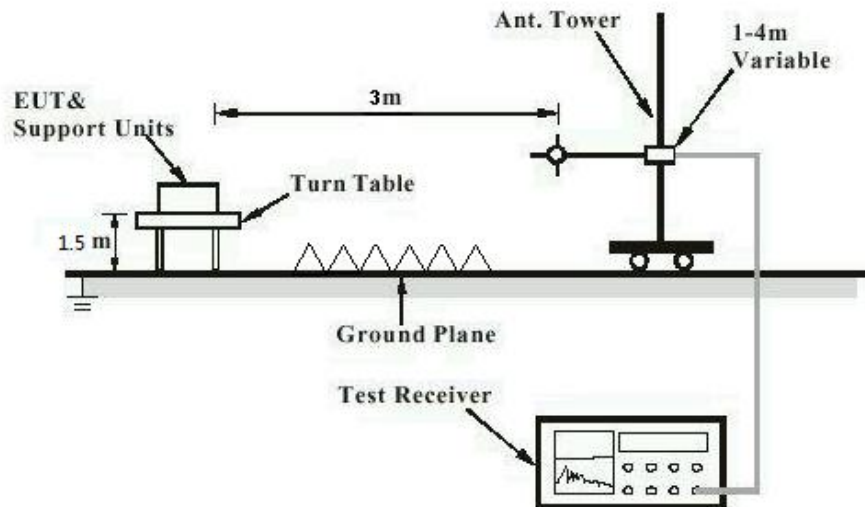
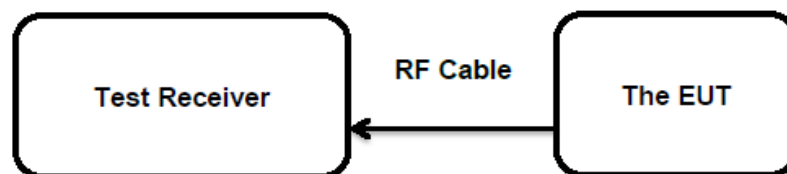


Diagram of Measurement Configuration for Conducted Transmitter Measurement



## 5. Test Results

### 5.1 Radio Test Requirement & Test Suites (5GHz Bands)

#### 5.1.1 Antenna Requirement

**RESULT:****Pass****Test Specification**

Test standard : FCC Part 15.203

According to the manufacturer declared, the EUT has integral antennas, the max. uncorrelated antenna gain antenna is 3.5dBi, permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

**Prüfbericht - Nr.: CN21HH0Z 008**  
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Page 14 of 20**5.1.2 Maximum output power****RESULT:****Pass****Test Specification**

Test standard : FCC Part 15.407 (a)  
Basic standard : ANSI C63.10:2013  
Limits : <250mW (24dBm) (5150-5250MHz)  
Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2023-05-06  
Input voltage : Full Battery  
Operation mode : A  
Test channel : Low / Middle / High  
Ambient temperature : 22.3 °C  
Relative humidity : 48 %  
Atmospheric pressure : 101 kPa

For details refer to following test result.

**Table 6: Test Result of Maximum Peak Conducted Output Power**

Worst case for SISO mode (Ant 0)

Test Mode	Test Channel (MHz)	Measured Average Power		Limit (W)
		(dBm)	(W)	
10MHz BW	5157	17.152	0.0519	< 0.250
	5201	16.589	0.0456	
	5245	<b>17.253</b>	<b>0.0531</b>	
20MHz BW	5161	16.608	0.0458	
	5200	16.365	0.0433	
	5240	16.994	0.0500	
40MHz BW	5170	16.911	0.0491	
	5200	16.972	0.0498	
	5230	16.476	0.0444	

Worst case for MIMO mode (Ant 0+3)

Test Mode	Test Channel (MHz)	Measured Average Power		Limit (W)
		(dBm)	(W)	
10MHz BW	5157	16.928	0.0493	< 0.250
	5201	16.609	0.0458	
	5245	<b>16.996</b>	<b>0.0501</b>	
20MHz BW	5161	16.837	0.0483	
	5200	16.426	0.0439	
	5240	16.794	0.0478	
40MHz BW	5170	16.250	0.0422	
	5200	16.106	0.0408	
	5230	16.260	0.0423	

**Note:**

- 1) The cable loss is taken into account in results.
- 2) Max. Antenna gain(G) of 5.2GHz SDR: 3.5dBi (uncorrelated antenna gain)

**Prüfbericht - Nr.: CN21HH0Z 008**  
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Page 16 of 20**5.1.3 Power Spectral Density****RESULT:****Pass****Test Specification**

Test standard : FCC Part 15.407 (a)  
Basic standard : ANSI C63.10:2013  
Limits : <11dBm/MHz (5150-5250MHz)  
Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2023-05-06  
Input voltage : Full Battery  
Operation mode : A  
Test channel : Low / Middle / High  
Ambient temperature : 22.3 °C  
Relative humidity : 48 %  
Atmospheric pressure : 101 kPa

Refer to attached Appendix A for details of test data.



**Prüfbericht - Nr.: CN21HH0Z 008**  
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Page 17 of 20**5.1.4 Frequency Stability****RESULT:****Pass****Test Specification**

Test standard : FCC Part 15.407 (g)  
Basic standard : ANSI C63.10:2013  
Limits : Within assigned bands  
Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2023-05-06  
Input voltage : Full Battery  
Operation mode : A  
Test channel : Low / Middle / High  
Ambient temperature : 22.3 °C  
Relative humidity : 48 %  
Atmospheric pressure : 101 kPa

Refer to attached Appendix A for details of test data.

**Prüfbericht - Nr.: CN21HH0Z 008**  
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Page 18 of 20**5.1.5 26dB Bandwidth****RESULT:****Pass****Test Specification**

Test standard : FCC Part 15.407  
Basic standard : ANSI C63.10:2013  
Limits : N/A  
Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2023-05-06  
Input voltage : Full Battery  
Operation mode : A  
Test channel : Low / Middle / High  
Ambient temperature : 22.3 °C  
Relative humidity : 48 %  
Atmospheric pressure : 101 kPa

Refer to attached Appendix A for details of test data.

**Prüfbericht - Nr.: CN21HH0Z 008**  
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Page 19 of 20**5.1.6 Radiated Spurious Emission****RESULT:****Pass****Test Specification**

Test standard : FCC Part 15.407(b) & FCC Part 15.205 & FCC Part 15.209  
Basic standard : ANSI C63.10:2013

Limits :

- For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

Kind of test site :

- Restricted Bands meet the requirement of 15.209 limit

3m Semi-Anechoic Chamber

**Test Setup**

Date of testing : 2023-05-06 to 2023-05-12

Input voltage : Full Battery

Operation mode : A

Test channel : Low / Middle / High

Ambient temperature : Refer to test result

Relative humidity : Refer to test result

Atmospheric pressure : 101 kPa

Refer to attached Appendix A for details of test data.

## 6. Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix B.

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