

Test report no.: <i>Prüfbericht-Nr.:</i>	CN25PU5W 001	Order No.: <i>Auftragsnr.:</i>	168560989	Page 1 of 24 <i>Seite 1 von 24</i>
Client reference no.: <i>Kunden-Referenz-Nr.:</i>	N/A	Order date: <i>Auftragsdatum:</i>	2025-07-03	
Client: <i>Auftraggeber:</i>	Honeywell (Beijing) Technology Solutions Labs Co., Ltd. A1 Building, C&W Industry Zone, No.14 Jiuxianqiao Road, Chaoyang District, 100015, Beijing, P.R. China			
Test item: <i>Prüfgegenstand:</i>	Thermostat			
Identification / Type no.: <i>Bezeichnung / Typ-Nr.:</i>	TC322C-G, TC323C-G, TC322B-G, TC323B-G			
Order content: <i>Auftrags-Inhalt:</i>	Test Report			
Test specification <i>Prüfgrundlage:</i>	CFR47 FCC Part 15: Subpart C Section 15.247 RSS-247 Issue 4 July 24, 2025			
Date of sample receipt: <i>Wareneingangsdatum:</i>	2025-07-13	Please refer to Photo Document		
Test sample no: <i>Prüfmuster-Nr.:</i>	A004018826-002, 004 A004022468-004			
Testing period: <i>Prüfzeitraum:</i>	2025-07-14 - 2025-07-25			
Place of testing: <i>Ort der Prüfung:</i>	Refer to section 2.1			
Testing laboratory: <i>Prüflaboratorium:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Test result*: <i>Prüfergebnis*:</i>	Pass			
tested by: <i>geprüft von:</i>			authorized by: <i>genehmigt von:</i>	
Date: 2025-12-12 <i>Datum:</i>	Signed by: Bell Hu		Issue date: 2025-12-12 <i>Ausstellungsdatum:</i>	Signed by: Lin Lin
Position / Stellung:	Expert/Sachverständige(r)		Position / Stellung:	Expert/Sachverständige(r)
Other: <i>Sonstiges:</i>	FCC ID: 2ARTN-00013, IC: 24552-00013 HVIN: 830604: TC322C-G 830607: TC323C-G 941403: TC322B-G 941405: TC323B-G PMN: TC322C-G, TC323C-G, TC322B-G, TC323B-G			
Condition of the test item at delivery: <i>Zustand des Prüfgegenstandes bei Anlieferung:</i>	Test item complete and undamaged Prüfmuster vollständig und unbeschädigt			
* 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
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
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. <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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Remarks
Anmerkungen

- | | |
|----------|--|
| 1 | <p>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</p> <p><i>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.</i></p> <p><i>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</i></p> |
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| 3 | <p>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report. Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</p> <p><i>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</i></p> |
| 4 | <p>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</p> <p><i>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</i></p> |

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TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 6dB BANDWIDTH

RESULT: Pass

5.1.5 99% BANDWIDTH

RESULT: Pass

5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH

RESULT: Pass

5.1.7 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.8 CONDUCTED EMISSION ON AC MAINS

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: Photographs of the Test Set-up

Appendix B: Test Results of Wi-Fi 802.11 b/g/n

Appendix C: Test Results of BLE

2 TEST SITES

2.1 TEST FACILITIES

TÜV Rheinland (Shenzhen) Co., Ltd.

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street,
Longhua District, Shenzhen 518000, People's Republic of China

FCC Accreditation Designation No.: CN1260
ISED Wireless Device Testing Laboratory: 25069
A2LA Certificate Number: 5162.01

2.2 LIST OF TEST AND MEASUREMENT INSTRUMENTS

Table 1: List of Test and Measurement Equipment

☒ Radio Spectrum Testing (TS8997-R&S)				
Description	Manufacturer	Model	Serial No.	Cal. until
Wireless Connectivity Tester	R&S	CMW270	101375	25.09.2025
Signal Analyzer	R&S	FSV 40	101441	25.09.2025
Vector Signal Generator	R&S	SMBV100A	263301	25.09.2025
Signal Generator	R&S	SMB100A	115186	25.09.2025
OSP	R&S	OSP 150	101017	30.10.2025
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	30.10.2025
Power Sensor	R&S	NRP-Z81	105677	25.09.2025
High Low Temperature Test Chamber	KOWINTEST	TH-30FJX	KW-21040497	25.09.2025
Shielding Room	Albatross	SR1	APC17151-SR1	13.09.2027

Unwanted Emission Testing (TS9975)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	28.09.2025
Signal Analyzer	R&S	FSV 40	101439	28.09.2025
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	28.09.2025
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	28.09.2025
Amplifier	R&S	SCU-18F	180070	28.09.2025
Amplifier	R&S	SCU40A	100475	28.09.2025
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	27.09.2026
Double-Ridged Antenna (1 - 18 GHz)	ETS-LINDGREN	3117	00218717	27.09.2026
Wideband Ridged Horn	Steatite	QMS-00880	19067	27.09.2026

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Antenna (18-40 GHz)				
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	27.09.2026
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	13.09.2027
Conducted Emission				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR3	102428	18.07.2026
Artificial Mains Network	R&S	ENV432	101546	09.02.2026
EMC32 Test Software	R&S	EMC32(Ver.10.50.00)	N/A	N/A

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 MEASUREMENT UNCERTAINTY

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-7}$
RF Power (conducted)	± 2.5 dB
Radiated Emission of Transmitter, valid up to 26.5 GHz	± 6 dB
Radiated Emission of Receiver, valid up to 26.5 GHz	± 6 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	± 3.70 dB / ± 3.30 dB
Temperature	± 1 °C
Humidity	± 5 %
Voltage (DC)	± 1 %
Voltage (AC, <10kHz)	± 2 %

2.6 LOCATION OF ORIGINAL DATA

The original copies of all test data taken during actual testing were attached at Appendix A & B & C 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.

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2.7 STATUS OF FACILITY USED FOR TESTING

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, 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 Product is thermostat as an advanced, highly configurable device providing building automation connectivity well-suited for commercial building applications. This device supports 60GHz radar, Wi-Fi 2.4GHz and Bluetooth (Low Energy) technology.

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

3.2 RATINGS AND SYSTEM DETAILS

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	Thermostat
Type Designation:	TC322C-G, TC323C-G, TC322B-G, TC323B-G
FCC ID:	2ARTN-00013
IC:	24552-00013
HVIN:	830604: TC322C-G 830607: TC323C-G 941403: TC322B-G 941405: TC323B-G
PMN:	TC322C-G, TC323C-G, TC322B-G, TC323B-G
Operating Voltage:	TC322B-G, TC323B-G: 24V AC
	TC322C-G, TC323C-G: 120-277V AC
Testing Voltage:	TC322B-G, TC323B-G: 24V AC via AC/AC transformer
	TC322C-G, TC323C-G: 120V AC
Operating Temperature Range:	-20°C ~ 50°C

There are 4 models as TC322C-G, TC323C-G, TC322B-G, TC323B-G, which share the same PCB layout and RF circuits. The differences among them are the power supply circuit, CO₂ sensor and IO ports, which have no impact on RF performance, and already considered sufficiently in SDOC ICES report CN259UFM 001. Details are listed in below table.

SKU	Power	Sensors	Peripheral
TC322C-G	1. TC322C-G, TC323C-G are powered by AC 120-277V, and TC322B-G, TC323B-G are powered by 24VAC with components of the transformer circuit removed, details as marked on the internal photos. 2. The relays are for different maximum loads.	T&H,	5DO, 3UIO
TC323C-G		T&H, CO ₂	5DO, 3UIO
TC322B-G		T&H	3DO, 2DIO, 3UIO
TC323B-G		T&H, CO ₂	3DO, 2DIO, 3UIO

As above differences, full test performed on TC323C-G & TC323B-G are shown in this report.

Characteristic	Description
Wireless Technology:	WLAN
Operating Frequency Range:	2412 - 2462 MHz for 802.11b/g/n(HT20) 2422 - 2452 MHz for 802.11n(HT40)
Channel Separation:	5 MHz
Type of Modulation:	DSSS (DBPSK/DQPSK/CCK) OFDM (BPSK/QPSK/16QAM/64QAM)
Antenna Type:	PCB Antenna
Antenna Gain:	3.26 dBi (max. gain is declared by the manufacturer)
Number of Antenna:	1
Characteristic	Description
Technical Specification of Bluetooth (Low Energy)	
Operating Frequency:	2400 - 2483.5 MHz
Operating Frequency Range:	2402 - 2480 MHz
Type of Modulation:	GFSK
Channel Number:	40 channels
Channel Separation:	2 MHz
Data Rate:	2Mbps, 1Mbps, 500kbps, 250kbps
Antenna Type:	PCB Antenna
Antenna Gain :	3.26 dBi (max. gain is declared by the manufacturer)

Table 3: RF Channel and Frequency of Wi-Fi 802.11 b/g/n

RF Channel	b/g/n(HT20)	n(HT40)
	Frequency (MHz)	Frequency (MHz)
01	2412	/
02	2417	/
03	2422	2422
04	2427	2427
05	2432	2432
06	2437	2437
07	2442	2442
08	2447	2447
09	2452	2452
10	2457	/
11	2462	/

Test frequencies are lowest channel: 2412 MHz, middle channel: 2437 MHz and highest channel: 2462 MHz for 20MHz Bandwidth mode.

Table 4: RF Channel and Frequency of Bluetooth (Low Energy)

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474

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7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

Test frequencies are lowest channel: 2402 MHz, middle channel: 2440 MHz and highest channel: 2480 MHz

3.3 INDEPENDENT OPERATION MODES

The basic operation modes are:

A. On, Wi-Fi 802.11 b/g/n wireless transmitting mode

- 1) Low Channel
- 2) Middle Channel
- 3) High Channel

B. On, BLE wireless transmitting mode

- 1) Low Channel
- 2) Middle Channel
- 3) High Channel

C. On, Normal operation (Wi-Fi & BLE Link)

D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 SUBMITTED DOCUMENTS

- Application Form
- Operation Description
- Schematics
- PCB Layout
- Model Difference Letter
- User Manual
- Block Diagram
- Rating Label
- Parts List

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.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 TEST OPERATION AND TEST SOFTWARE

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

FCC: ANSI C63.10-2020.

ISED: ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024

4.3 SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT

Table 5: Auxiliary Equipment Used during Test

Description	Model	Manufacturer
Laptop	T480	Lenovo
Transformer (AC 120V - AC 24V)	N/A	N/A
Phone	Redmi K50	Xiaomi
Router	TL-XDR5430	TP-LINK
Auxiliary Load Board	N/A	Honeywell

4.4 COUNTERMEASURES TO ACHIEVE EMC 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)

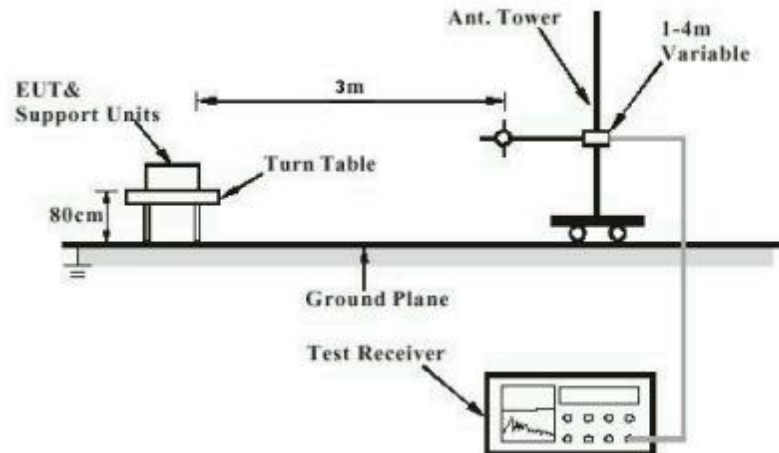


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

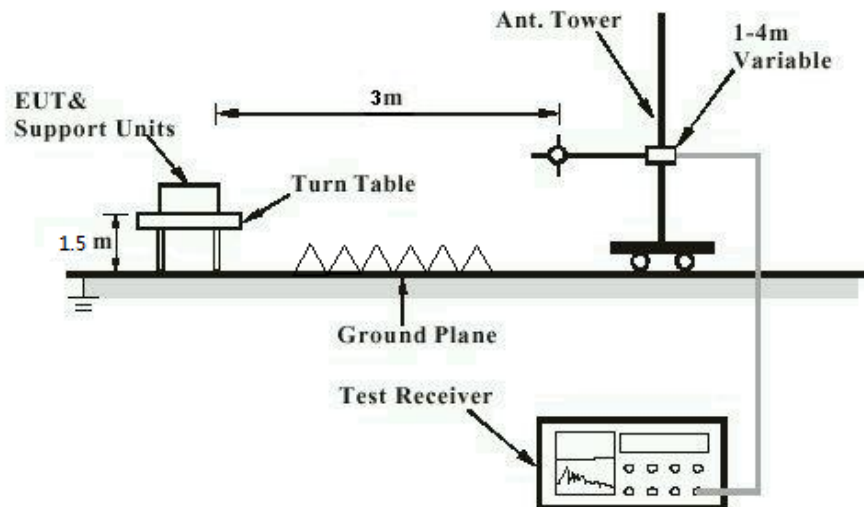


Diagram of Measurement Configuration for Mains Conduction Measurement

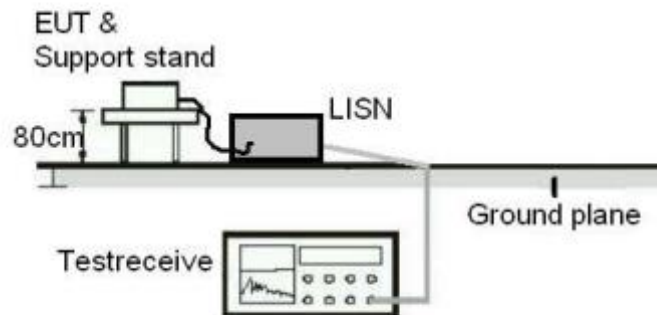
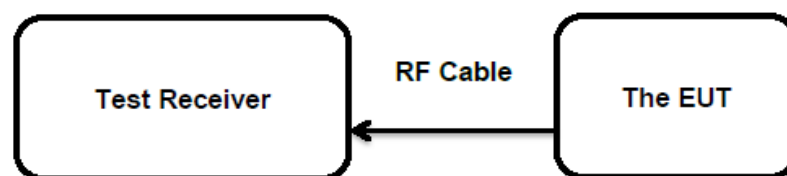


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 TEST RESULTS

5.1 TRANSMITTER REQUIREMENT & TEST SUITES

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(b)(4) and Part 15.203
RSS-Gen Clause 6.8

The EUT has a PCB antenna, the directional gain of antenna is 3.26 dBi, permanent attachment and no consideration of replacement.

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

Refer to EUT Photo for further details.

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5.1.2 Maximum peak conducted output power

RESULT:
Pass
Test Specification

Test standard : FCC Part 15.247(b)(3)
RSS-247 Clause 6.3.2
Basic standard : ANSI C63.10
Limits : 1.0 Watts
Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-07-14 - 2025-07-25
Input voltage : AC 120V
Operation mode : A,B
Test channel : Low / Middle / High
Ambient temperature : 23.8 °C
Relative humidity : 52 %
Atmospheric pressure : 101 kPa

Table 6: Test Result of Maximum Peak Conducted Output Power, Wi-Fi

Test Mode	Data Rate	Test Channel (MHz)	Measured Peak Conducted Power		Measured Average Conducted Power		Limit (W)
			(dBm)	(W)	(dBm)	(W)	
802.11b	1 Mbps	2412	19.5	0.089	17.3	0.054	< 1.0
		2437	19.2	0.083	16.9	0.049	
		2462	17	0.050	14.5	0.028	
802.11g	6 Mbps	2412	22.6	0.182	15	0.032	
		2437	24.7	0.295	18.7	0.074	
		2462	23.2	0.209	15.9	0.039	
802.11n (HT20)	MCS0	2412	21.2	0.132	14.3	0.027	
		2437	23.7	0.234	17.7	0.059	
		2462	21	0.126	14	0.025	
802.11n (HT40)	MCS0	2422	19.1	0.081	13.1	0.020	
		2437	22.5	0.178	17.8	0.060	
		2452	19.9	0.098	14.4	0.028	

Note:

- The cable loss is taken into account in results.
- Antenna gain(G): 3.26 dBi,
e.i.r.p.= $P_{(\text{Peak power})} + G$, which is far below the 4 W

Table 7: Test Result of Maximum Peak Conducted Output Power, BLE

Test Mode	Data Rate	Test Channel (MHz)	Measured Peak Power		Limit (W)
			(dBm)	(W)	
Bluetooth (Low Energy)	1Mbps	2402	12.1	0.016	< 1.0
		2440	15.1	0.032	
		2480	19.1	0.081	
	2Mbps	2402	13.0	0.020	
		2440	12.6	0.018	
		2480	19.1	0.081	
	125kbps	2402	12.9	0.019	
		2440	12.6	0.018	
		2480	13.4	0.022	
	500kbps	2402	13.2	0.021	
		2440	12.7	0.019	
		2480	13.5	0.022	
Maximum Measured Value			19.1	0.081	

Note:

- 3) The cable loss is taken into account in results.
- 4) Antenna gain(G): 3.26 dBi,
e.i.r.p.= $P_{(\text{Peak power})} + G$, which is far below the 4 W

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5.1.3 Conducted Power Spectral Density

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(e) RSS-247 Clause 6.3.1
Basic standard	: ANSI C63.10
Limits	: < 8 dBm / 3kHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-07-14 - 2025-07-25
Input voltage	: AC 120V
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 24.3 °C
Relative humidity	: 53 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendixes B, C.

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5.1.4 6dB Bandwidth

RESULT:

Pass

Test Specification

Test standard	:	FCC Part 15.247(a)(2) RSS-247 Clause 6.3.1
Basic standard	:	ANSI C63.10
Limits	:	> 500 kHz
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2025-07-14 - 2025-07-25
Input voltage	:	AC 120V
Operation mode	:	A, B
Test channel	:	Low / Middle / High
Ambient temperature	:	24.3 °C
Relative humidity	:	53 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendixes B, C.

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5.1.5 99% Bandwidth

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(a)
RSS-Gen Clause 6.7
Basic standard : ANSI C63.10
Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-07-14 - 2025-07-25
Input voltage : AC 120V
Operation mode : A, B
Test channel : Low / Middle / High
Ambient temperature : 24.3 °C
Relative humidity : 53 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendixes B, C.

5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

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

Test standard	: FCC Part 15.247(d) RSS-247 Clause 6.6
Basic standard	: ANSI C63.10
Limits	: If the tested output power based on peak test: At least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. If the tested output power based on RMS averaging over a time interval: At least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-07-14 - 2025-07-25
Input voltage	: AC 120V
Operation mode	: A,B
Test channel	: Low / Middle / High
Ambient temperature	: 24.3 °C
Relative humidity	: 53 %
Atmospheric pressure	: 101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, and compliance is achieved as well.

For the measurement records, refer to the appendixes B, C.

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5.1.7 Radiated Spurious Emission

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

Test standard	: FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 6.6
Basic standard	: ANSI C63.10
Limits	: Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Table 5
Kind of test site	: 3m Semi-anechoic Chamber & 3m Full-anechoic Chamber

Test Setup

Date of testing	: 2025-07-14 - 2025-07-25
Input voltage	: AC 120V
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics.
RSE test performed on models TC321B-G, TC320C-G and TC320B-G for all configurations, only the worst-case mode reported.

For the measurement records, refer to the appendixes B, C.

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5.1.8 Conducted Emission on AC Mains

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

Test standard	: FCC Part 15.207(a) RSS-GEN clause 8.8
Basic standard	: ANSI C63.10
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.207(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-07-14 - 2025-07-25
Input voltage	: AC 120V
Operation mode	: C
Earthing	: Not connected
Ambient temperature	: 23.5 °C
Relative humidity	: 54.7 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendixes B, C.

6 PHOTOGRAPHS OF THE TEST SET-UP

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

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