

Prüfbericht-Nr.: <i>Test report no.:</i>	CN22JIUF 002	Auftrags-Nr.: <i>Order no.:</i>	168384966	Seite 1 von 25 <i>Page 1 of 25</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2022-09-21	
Auftraggeber: <i>Client:</i>	SZ DJI TECHNOLOGY CO., LTD. 14th Floor, West Wing, Skyworth Semiconductor Design Building No.18 Gaoxin South 4th Ave Nanshan District, Shenzhen, P.R. China			
Prüfgegenstand: <i>Test item:</i>	DJI Mini 3			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	MT3PD (Trademark: DJI)			
Auftrags-Inhalt: <i>Order content:</i>	Test Report			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2022-09-22	Please refer to photo documents		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003338845-005~008, 024~027			
Prüfzeitraum: <i>Testing period:</i>	2022-09-22 to 2022-10-17			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	genehmigt von: <i>authorized by:</i>			
Datum: <i>Date:</i> 2022-10-31	Ausstellungsdatum: <i>Issue date:</i> 2022-10-31			
Stellung / Position: Project Manager	Stellung / Position: Reviewer			
Sonstiges / Other:	FCC ID: SS3-MT3PD22 This report is for 2.4GHz SDR, 2.4GHz Wi-Fi and BLE.			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend N/A = nicht anwendbar	4 = ausreichend N/T = nicht getestet
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory N/A = not applicable	4 = sufficient N/T = not tested
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 a. m. 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>				

v05

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

Contents

1	GENERAL REMARKS	4
1.1	COMPLEMENTARY MATERIALS	4
2	TEST SITES	5
2.1	TEST FACILITIES	5
2.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS.....	5
2.3	TRACEABILITY	6
2.4	CALIBRATION	6
2.5	MEASUREMENT UNCERTAINTY.....	6
2.6	LOCATION OF ORIGINAL DATA.....	6
2.7	STATUS OF FACILITY USED FOR TESTING.....	6
3	GENERAL PRODUCT INFORMATION	7
3.1	PRODUCT FUNCTION AND INTENDED USE.....	7
3.2	RATINGS AND SYSTEM DETAILS	7
3.3	INDEPENDENT OPERATION MODES	13
3.4	NOISE GENERATING AND NOISE SUPPRESSING PARTS.....	13
3.5	SUBMITTED DOCUMENTS.....	13
4	TEST SET-UP AND OPERATION MODES	14
4.1	PRINCIPLE OF CONFIGURATION SELECTION	14
4.2	TEST OPERATION AND TEST SOFTWARE.....	14
4.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT.....	14
4.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE.....	14
4.5	TEST SETUP DIAGRAM.....	15
5	TEST RESULTS	16
5.1	TRANSMITTER REQUIREMENT & TEST SUITES	16
5.1.1	<i>Antenna Requirement</i>	<i>16</i>
5.1.2	<i>Maximum Peak Conducted Output Power.....</i>	<i>17</i>
5.1.3	<i>Conducted Power Spectral Density</i>	<i>20</i>
5.1.4	<i>6dB Bandwidth</i>	<i>21</i>
5.1.5	<i>99% Bandwidth</i>	<i>22</i>
5.1.6	<i>Conducted Spurious Emissions Measured in 100 kHz Bandwidth</i>	<i>23</i>
5.1.7	<i>Radiated Spurious Emission</i>	<i>24</i>
6	PHOTOGRAPHS OF THE TEST SET-UP.....	25
7	LIST OF TABLES.....	25

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 BLE

Appendix B: Test Results of 2.4GHz SDR

Appendix C: Test Results of 2.4GHz Wi-Fi

Appendix D: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

362 Huanguan Road Middle Longhua District, Shenzhen 518110 People's Republic of China

FCC Registration No.: 694916

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 (SRD-Tonscend)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	2023-10-10
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	2023-10-10
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	2023-10-10
DC power supply	Keysight	E3642A	MY61276100	2023-10-10
Power Control Unit	Tonscend	JS0806-4ADC	N/A	2023-10-10
Automation Control Unit	Tonscend	JS0806-2	21C8060396	2023-10-10
Test Software	Tonscend	JS1120-3	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	YLX23JMF	N/A
Shielding Room 8#	Albatross	SR8	APC17151-SR8	2024-06-22
Unwanted Emission Testing (TS9975)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
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	2023-08-06
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	2023-08-06
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2023-08-08
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 Measurement Uncertainty

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

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
Occupied Channel Bandwidth	± 2.08 %
RF output power, conducted	± 0.99 dB
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 & C & D 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 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 a DJI Mini 3. It supports Bluetooth, 2.4GHz SDR, 2.4GHz Wi-Fi, 5.8GHz Wi-Fi, 5.8GHz SDR and GNSS functions.

*remark: SDR means specific defined radio, and cannot changes radio specification via software/firmware by end-users.

Note: When the EUT is charged, other functions cannot be used.

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

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	DJI Mini 3
Type Designation	MT3PD
Operating Voltage	AC 100-240V, 50/60Hz input via AC/DC adapter or Battery operated (Max 7.38V)
Testing Voltage	Full battery
Extreme Temperature Range	-10°C ~ 40 °C
Radiofrequency operating mode	1) Bluetooth: operating within 2400-2483.5MHz, Bluetooth BLE, 1Mbps&2Mbps 2) 2.4GHz SDR: operating within 2400-2483.5MHz, supports 1.4MHz/3MHz/10MHz/20MHz Bandwidth 3) 2.4GHz Wi-Fi: operating within 2400-2483.5MHz, supports 20MHz/40MHz Bandwidth and IEEE 802.11 b/g/n20/n40 4) 5.8GHz SDR: operating within 5725-5850MHz, supports 1.4MHz/3MHz/10MHz/20MHz Bandwidth 5) 5.8GHz Wi-Fi: operating within 5725-5850MHz, supports 20MHz/40MHz/80MHz Bandwidth and IEEE 802.11 a/n20/n40/ac20/ac40/ac80 6) GNSS (Receiver): 1559-1610MHz
Adapter	Model: PD-30US Input: 100-240V, 50/60Hz, 0.8A Max Output: 3.3-11V/2.72A or 5V/3A or 9V/3A or 12V/2.5A or 15V/ 2A
Technical Specification of Bluetooth	
Operating Frequency	2402-2480MHz
Type of Modulation	GFSK
Data Rate	1Mbps, 2Mbps
Channel Number	40 channels for Bluetooth BLE
Channel Separation	1MHz and 2MHz
Antenna Type	Integral Antenna
Antenna Number	1
Antenna Gain	1.5 dBi
The type of wideband data	DTS

transmission equipment	
Technical Specification of 2.4GHz SDR	
Operating Frequency	2407.5-2465.5MHz for 1.4MHz Bandwidth 2409.12-2467.12MHz for 1.4MHz Bandwidth (CA mode) 2417.5-2456.5MHz for 3MHz Bandwidth 2405.5-2476.5MHz for 10MHz Bandwidth 2410.5-2472.5MHz for 20MHz Bandwidth
Type of Modulation	OFDM (QPSK, 16QAM, 64QAM)
Channel Number	30 channels for 1.4MHz Bandwidth 30 channels for 1.4MHz Bandwidth (CA mode) 14 channels for 3MHz Bandwidth 72 channels for 10MHz Bandwidth 63 channels for 20MHz Bandwidth
Channel Separation	2MHz for 1.4MHz Bandwidth 2MHz for 1.4MHz Bandwidth (CA mode) 3MHz for 3MHz Bandwidth 1MHz for 10MHz Bandwidth 1MHz for 20MHz Bandwidth
Antenna Number	2 Integral Antennas, only 1TX2RX mode supported.
Antenna Gain	1.5 dBi Max
The type of wideband data transmission equipment	DTS
Technical Specification of 2.4GHz Wi-Fi	
Operating Frequency	2412 - 2462MHz for 802.11b/g/n(HT20) 2422 - 2452MHz for 802.11n(HT40)
Type of Modulation	DSSS(DBPSK/DQPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM)
Data Rate	1/2/5.5/11 Mbps for 802.11b 6/9/12/18/24/36/48/54 Mbps for 802.11g MCS0 ~ MCS7 for 802.11n
Channel Number	11 channels for 802.11b/g/n(HT20) 7 channels for 802.11n(HT40)
Channel Separation	5 MHz
Antenna Number	1 Integral Antenna
Antenna Gain	1.5 dBi
The type of wideband data transmission equipment	DTS

Table 4: RF Channel and Frequency of Bluetooth LE

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

Table 5: RF Channel and Frequency of 2.4GHz SDR

2.4GHz 1.4MHz Bandwidth (2407.5MHz-2465.5MHz)			
RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
1	2407.5	16	2437.5
2	2409.5	17	2439.5
3	2411.5	18	2441.5
4	2413.5	19	2443.5
5	2415.5	20	2445.5
6	2417.5	21	2447.5
7	2419.5	22	2449.5
8	2421.5	23	2451.5
9	2423.5	24	2453.5
10	2425.5	25	2455.5
11	2427.5	26	2457.5
12	2429.5	27	2459.5
13	2431.5	28	2461.5
14	2433.5	29	2463.5
15	2435.5	30	2465.5

2.4GHz 1.4MHz Bandwidth (CA Mode) (2409.12MHz-2467.12MHz)			
RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
1	2409.12	16	2439.12
2	2411.12	17	2441.12
3	2413.12	18	2443.12
4	2415.12	19	2445.12
5	2417.12	20	2447.12
6	2419.12	21	2449.12
7	2421.12	22	2451.12
8	2423.12	23	2453.12
9	2425.12	24	2455.12
10	2427.12	25	2457.12
11	2429.12	26	2459.12
12	2431.12	27	2461.12
13	2433.12	28	2463.12
14	2435.12	29	2465.12
15	2437.12	30	2467.12

2.4GHz 3MHz Bandwidth (2417.5MHz-2456.5MHz)			
RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
1	2417.5	8	2438.5
2	2420.5	9	2441.5
3	2423.5	10	2444.5
4	2426.5	11	2447.5
5	2429.5	12	2450.5
6	2432.5	13	2453.5
7	2435.5	14	2456.5

2.4GHz 10MHz Bandwidth (2405.5MHz-2476.5MHz)							
RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
1	2405.5	19	2423.5	37	2441.5	55	2459.5
2	2406.5	20	2424.5	38	2442.5	56	2460.5
3	2407.5	21	2425.5	39	2443.5	57	2461.5
4	2408.5	22	2426.5	40	2444.5	58	2462.5
5	2409.5	23	2427.5	41	2445.5	59	2463.5
6	2410.5	24	2428.5	42	2446.5	60	2464.5
7	2411.5	25	2429.5	43	2447.5	61	2465.5
8	2412.5	26	2430.5	44	2448.5	62	2466.5
9	2413.5	27	2431.5	45	2449.5	63	2467.5
10	2414.5	28	2432.5	46	2450.5	64	2468.5
11	2415.5	29	2433.5	47	2451.5	65	2469.5
12	2416.5	30	2434.5	48	2452.5	66	2470.5
13	2417.5	31	2435.5	49	2453.5	67	2471.5
14	2418.5	32	2436.5	50	2454.5	68	2472.5
15	2419.5	33	2437.5	51	2455.5	69	2473.5
16	2420.5	34	2438.5	52	2456.5	70	2474.5
17	2421.5	35	2439.5	53	2457.5	71	2475.5
18	2422.5	36	2440.5	54	2458.5	72	2476.5

2.4GHz 20MHz Bandwidth (2410.5MHz-2472.5MHz)					
RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
1	2410.5	22	2431.5	43	2452.5
2	2411.5	23	2432.5	44	2453.5
3	2412.5	24	2433.5	45	2454.5
4	2413.5	25	2434.5	46	2455.5
5	2414.5	26	2435.5	47	2456.5
6	2415.5	27	2436.5	48	2457.5
7	2416.5	28	2437.5	49	2458.5
8	2417.5	29	2438.5	50	2459.5
9	2418.5	30	2439.5	51	2460.5
10	2419.5	31	2440.5	52	2461.5
11	2420.5	32	2441.5	53	2462.5
12	2421.5	33	2442.5	54	2463.5
13	2422.5	34	2443.5	55	2464.5
14	2423.5	35	2444.5	56	2465.5
15	2424.5	36	2445.5	57	2466.5
16	2425.5	37	2446.5	58	2467.5
17	2426.5	38	2447.5	59	2468.5
18	2427.5	39	2448.5	60	2469.5
19	2428.5	40	2449.5	61	2470.5
20	2429.5	41	2450.5	62	2471.5
21	2430.5	42	2451.5	63	2472.5

Prüfbericht - Nr.: CN22JIUF 002
Test Report No.:Seite 12 von 25
Page 12 of 25**Table 6: RF Channel and Frequency of 2.4GHz Wi-Fi 802.11 b/g/n**

RF Channel	802.11 b/g/n(HT20)	802.11 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	

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth BLE wireless transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- B. On, 2.4GHz SDR wireless transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- C. On, Wi-Fi 802.11 b/g/n wireless transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- D. On, Normal Operation
- E. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- User Manual
- Block Diagram
- ID Label and Location Info

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: 2013.

According to clause 3.1, all tests were performed on model MT3PD in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 7: Auxiliary Equipment Used during Test

Description	Manufacturer	Model	S/N
Laptop	Lenovo	T480	PF-16A6N8
Remote Control	DJI	RM330	5HAZK8W001GRL4

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)

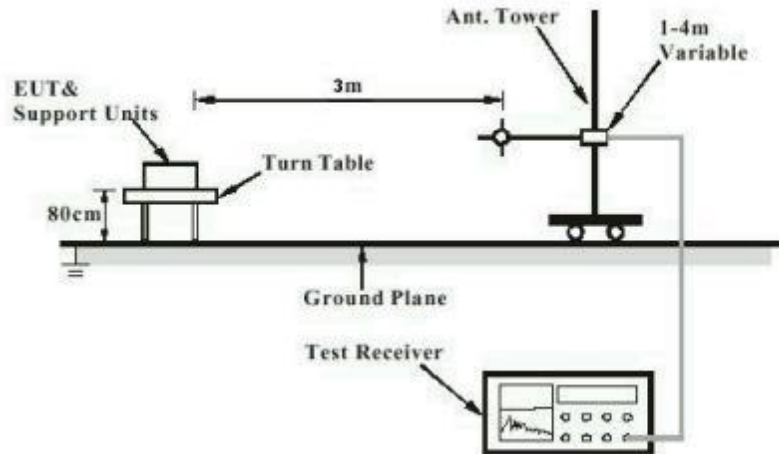


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

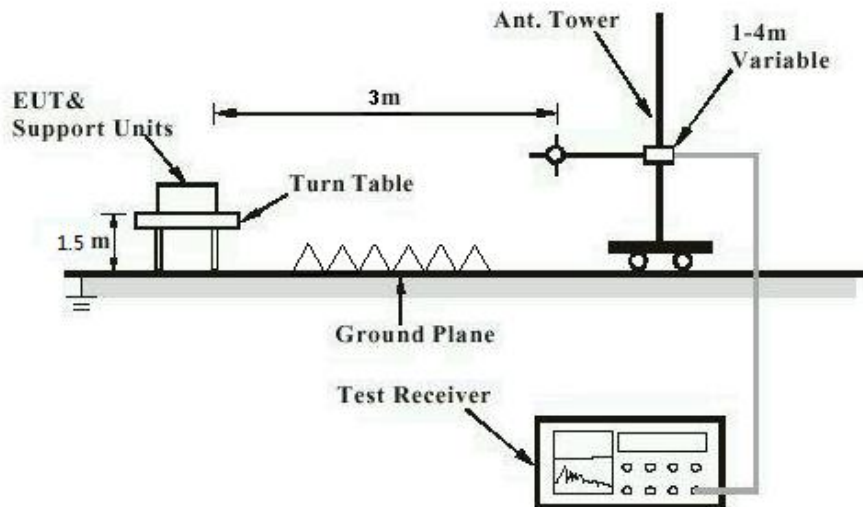
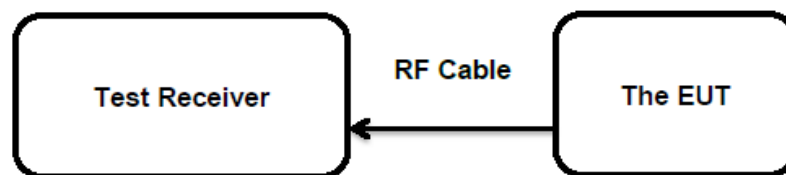


Diagram of Measurement Configuration for Conducted Transmitter Measurement



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

According to the manufacturer declared, the EUT has Integral Antennas, permanent attached and no consideration of replacement. Details as listed on section 3.2 table 2.

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

Refer to EUT Photo for further details.

5.1.2 Maximum Peak Conducted Output Power

RESULT:
Pass
Test Specification

Test standard : FCC Part 15.247(b)(3)
 Basic standard : ANSI C63.10: 2013
 Limits : 1.0 Watts
 Kind of test site : Shielded Room

Test Setup

Date of testing : 2022-10-11 to 2022-10-12
 Input voltage : Fully charged battery
 Operation mode : A, B, C
 Test channel : Low / Middle / High
 Ambient temperature : 25.6 °C
 Relative humidity : 55 %
 Atmospheric pressure : 101 kPa

Table 8: Test Result of Maximum Conducted Peak Output Power, Bluetooth LE

Test Mode	Data Rate	Test Channel (MHz)	Measured Peak Power		Limit (W)
			(dBm)	(W)	
GFSK (BLE)	1 Mbps	2402	5.70	0.0037	< 1.0
		2440	6.23	0.0042	
		2480	5.88	0.0039	
	2 Mbps	2402	5.61	0.0036	
		2440	5.91	0.0039	
		2480	5.69	0.0037	
Max. e.i.r.p.= 6.23dBm+1.5dBi=7.73dBm					

Table 9: Test Result of Maximum Peak Output Power, Wi-Fi 802.11 b/g/n

Test Mode	Test Channel (MHz)	Measured Peak Power		Measured Average Power	Limit (W)
		(dBm)	(W)	(dBm)	
802.11b (1 Mbps)	2412	14.96	0.0313	10.64	< 1.0
	2437	19.95	0.0414	16.17	
	2462	15.54	0.0114	10.57	
802.11g (6 Mbps)	2412	20.54	0.0139	11.42	
	2437	24.93	0.0416	16.19	
	2462	20.86	0.0143	11.54	
802.11n HT20 (MCS0)	2412	20.75	0.0132	11.20	
	2437	24.71	0.0395	15.97	
	2462	20.49	0.0144	11.58	
802.11n HT40 (MCS0)	2412	20.68	0.0117	10.69	
	2437	23.78	0.0238	13.77	
	2452	20.62	0.0121	10.84	

Max. e.i.r.p.=24.93dBm+1.5dBi=26.43dBm.

Table 10: Test Result of Maximum Conducted Output Power, 2.4GHz SDR

Both the Ant 0 and Ant 1 ports tested, only the worst-case reported.

Test Mode	Test Channel (MHz)	Measured Average Power		Limit (W)
		(dBm)	(W)	
1.4MHz BW	2407.5	11.34	0.0136	< 1.0
	2435.5	11.49	0.0141	
	2465.5	11.59	0.0144	
1.4MHz BW CA	2409.12	11.53	0.0142	
	2437.12	11.37	0.0137	
	2467.12	11.50	0.0141	
3MHz BW	2417.5	11.43	0.0139	
	2435.5	11.67	0.0147	
	2456.5	11.47	0.0140	
10MHz BW	2405.5	13.70	0.0234	
	2410.5	17.45	0.0556	
	2412.5	18.85	0.0767	
	2413.5	18.31	0.0678	
	2415.5	20.62	0.1153	
	2440.5	21.45	0.1396	
	2457.5	20.24	0.1057	
	2458.5	19.43	0.0877	
	2460.5	18.46	0.0701	
	2470.5	10.79	0.0120	
20MHz BW	2476.5	4.30	0.0027	
	2410.5	8.11	0.0065	
	2415.5	12.23	0.0167	
	2420.5	16.17	0.0414	
	2425.5	18.20	0.0661	
	2430.5	20.39	0.1094	
	2441.5	21.38	0.1374	
	2443.5	20.87	0.1222	
	2445.5	19.59	0.0910	
	2450.5	16.72	0.0470	
2455.5	14.82	0.0303		
2465.5	8.80	0.0076		
2472.5	-4.32	0.0004		

Max. e.i.r.p.=21.45dBm+1.5dBi=22.95dBm.

5.1.3 Conducted Power Spectral Density

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

Test standard	: FCC Part 15.247(e)
Basic standard	: ANSI C63.10: 2013
Limits	: < 8 dBm / 3kHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2022-09-23 to 2022-10-11
Input voltage	: Fully charged battery
Operation mode	: A, B, C
Test channel	: Low / Middle / High
Ambient temperature	: 25.6 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

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

5.1.4 6dB Bandwidth

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

Test standard	:	FCC Part 15.247(a)(2)
Basic standard	:	ANSI C63.10: 2013
Limits	:	> 500 KHz
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2022-09-23 to 2022-09-30
Input voltage	:	Fully charged battery
Operation mode	:	A, B, C
Test channel	:	Low / Middle / High
Ambient temperature	:	25.6 °C
Relative humidity	:	55 %
Atmospheric pressure	:	101 kPa

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

Prüfbericht - Nr.: CN22JIUF 002
Test Report No.:Seite 22 von 25
Page 22 of 25

5.1.5 99% Bandwidth

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

Test standard : FCC Part 15.247(a)
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded Room

Test Setup

Date of testing : 2022-09-23 to 2022-10-12
Input voltage : Fully charged battery
Operation mode : A, B, C
Test channel : Low / Middle / High
Ambient temperature : 25.6 °C
Relative humidity : 55 %
Atmospheric pressure : 101 kPa

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

5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

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

Test standard	: FCC Part 15.247(d)
Basic standard	: ANSI C63.10: 2013
Limits	: 20dB (below that in the 100kHz 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	: 2022-09-23 to 2022-10-12
Input voltage	: Fully charged battery
Operation mode	: A, B, C
Test channel	: Low / Middle / High
Ambient temperature	: 25.6 °C
Relative humidity	: 55 %
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 A, B and C.

5.1.7 Radiated Spurious Emission

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

Test standard	:	FCC Part 15.247(d) & FCC Part 15.205
Basic standard	:	ANSI C63.10: 2013
Limits	:	Refer to 15.209(a) of FCC part 15.247(d)
Kind of test site	:	3m Semi-anechoic Chamber

Test Setup

Date of testing	:	2022-10-12 to 2022-10-17
Input voltage	:	Fully charged battery
Operation mode	:	A, B, C
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. Only the worst case spurious emissions configuration of the each mode were reported.

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

6 Photographs of the Test Set-Up

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

7 List of Tables

Table 1: List of Test and Measurement Equipment.....	5
Table 2: Measurement Uncertainty.....	6
Table 3: Technical Specification of EUT.....	7
Table 4: RF Channel and Frequency of Bluetooth LE.....	9
Table 5: RF Channel and Frequency of 2.4GHz SDR.....	9
Table 6: RF Channel and Frequency of 2.4GHz Wi-Fi 802.11 b/g/n.....	12
Table 7: Auxiliary Equipment Used during Test.....	14
Table 8: Test Result of Maximum Conducted Peak Output Power, Bluetooth LE.....	17
Table 9: Test Result of Maximum Conducted Output Power, Wi-Fi 802.11 b/g/n.....	18
Table 10: Test Result of Maximum Conducted Output Power, 2.4GHz SDR.....	19