

<b>Prüfbericht-Nr.:</b> <i>Test report no.:</i>	<b>CN24F0Q2 005</b>	<b>Auftrags-Nr.:</b> <i>Order no.:</i>	<b>168438695</b>	Seite 1 von 25 Page 1 of 25
<b>Kunden-Referenz-Nr.:</b> <i>Client reference no.:</i>	N/A	<b>Auftragsdatum:</b> <i>Order date:</i>	2023-08-09	
<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>	DJI Goggles 3			
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type no.:</i>	TKGS3 (Trademark: DJI)			
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	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 15.207 CFR47 FCC Part 15: Subpart C Section 15.209			
<b>Wareneingangsdatum:</b> <i>Date of sample receipt:</i>	2023-11-13	Please refer to Photo Document		
<b>Prüfmuster-Nr.:</b> <i>Test sample no.:</i>	A003598699-029~032 A003598699-014, 024			
<b>Prüfzeitraum:</b> <i>Testing period:</i>	2023-11-24 - 2024-01-03			
<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>	<u>X Bell Hu</u>	<b>genehmigt von:</b> <i>authorized by:</i>	<u>X Jonathan Li</u>	
<b>Datum:</b> <i>Date:</i> 2024-02-21	<small>Signed by: Bell Hu</small>	<b>Ausstellungsdatum:</b> <i>Issue date:</i> 2024-02-21	<small>Signed by: Jonathan Li</small>	
<b>Stellung / Position:</b>	Sachverständige(r)/Expert	<b>Stellung / Position:</b>	Sachverständige(r)/Expert	
<b>Sonstiges /</b> <i>Other:</i>	FCC ID: SS3-TKGS323 This report is for 5.2GHz SDR.			
<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>			
<small>* Legende:</small>	<small>P(ass) = entspricht o.g. Prüfgrundlage(n)</small>	<small>F(ail) = entspricht nicht o.g. Prüfgrundlage(n)</small>	<small>N/A = nicht anwendbar</small>	<small>N/T = nicht getestet</small>
<small>* Legend:</small>	<small>P(ass) = passed a.m. test specification(s)</small>	<small>F(ail) = failed a.m. test specification(s)</small>	<small>N/A = not applicable</small>	<small>N/T = not tested</small>
<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>				

v05

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**Anmerkungen**  
Remarks

1	<p>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. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>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.</i></p>
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3	<p>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.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p>
4	<p>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.</p> <p><i>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 on the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p>

## **Test Summary**

**5.1.1 ANTENNA REQUIREMENT**

*RESULT: Pass*

**5.1.2 MAXIMUM OUTPUT POWER**

*RESULT: Pass*

**5.1.3 CONDUCTED POWER SPECTRAL DENSITY**

*RESULT: Pass*

**5.1.4 FREQUENCY STABILITY**

*RESULT: Pass*

**5.1.5 26dB BANDWIDTH AND 99% BANDWIDTH**

*RESULT: Pass*

**5.1.6 RADIATED SPURIOUS EMISSION**

*RESULT: Pass*

**5.1.7 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: 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, 518110, Shenzhen, P. R. China.

FCC Accreditation Designation 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 (SRD-Tonscend)</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Serial No.</b>	<b>Cal. Date</b>	<b>Cal. until</b>
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	2023-09-22	2024-09-21
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	2023-09-22	2024-09-21
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	2023-09-22	2024-09-21
DC power supply	Keysight	E3642A	MY61276100	2023-09-22	2024-09-21
Power Control Unit	Tonscend	JS0806-4ADC	N/A	2023-09-22	2024-09-21
Automation Control Unit	Tonscend	JS0806-2	21C8060396	2023-09-22	2024-09-21
Test Software	Tonscend	JS1120-3	N/A	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	YLX23JMF	N/A	N/A
Shielding Room 8#	Albatross	SR8	APC17151-SR8	2021-06-22	2024-06-22
<b>Unwanted Emission Testing (TS9975)</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Serial No.</b>	<b>Cal. Date</b>	<b>Cal. until</b>
EMI Test Receiver	R&S	ESR 7	102021	2023-07-26	2024-07-25
Signal Analyzer	R&S	FSV 40	101439	2023-07-26	2024-07-25
System Controller Interface	R&S	SCI-100	S10010038	N/A	N/A
Filterbank	R&S	Wlan	100759	2023-07-26	2024-07-25
OSP	R&S	OSP 120	102040	N/A	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2023-07-26	2024-07-25
Amplifier	R&S	SCU-18F	180070	2023-07-26	2024-07-25
Amplifier	R&S	SCU40A	100475	2023-07-26	2024-07-25
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2022-08-07	2024-08-06

Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	2022-08-07	2024-08-06
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2022-08-28	2024-08-27
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2022-08-07	2024-08-06
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2021-06-22	2024-06-22

Conducted Emission				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR3	102680	2024-02-23
Artificial Mains Network	R&S	ENV216	101445	2024-02-23
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.

**Table 2: Measurement Uncertainty**

Parameter	Uncertainty (k=2)
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
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	± 3.70 dB / ± 3.30 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 of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) 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, 518110, Shenzhen, P. R. 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 Goggles 3. It supports Bluetooth dual mode, 2.4GHz, 2.4GHz Wi-Fi, 5.2/5.8GHz Wi-Fi, 2.4GHz SDR, 5.2/5.8GHz SDR and GNSS functions.

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

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 Goggles 3
Type Designation:	TKGS3
Trademark:	DJI
FCC ID:	SS3-TKGS323
Operating Voltage:	7.2V DC by built-in battery or DC 5V/9V by AC/DC adapter
Testing Voltage:	Fully charged battery
Radiofrequency operating mode:	1) Bluetooth: operating within 2400-2483.5MHz, Classic Bluetooth (BR&EDR), Bluetooth BLE (1Mbps&2Mbps) 2) 2.4GHz SDR: operating within 2400-2483.5MHz, supports 1.4MHz/3MHz/5MHz/10MHz/20MHz/40MHz/60MHz Bandwidth 3) 2.4GHz Wi-Fi: operating within 2400-2483.5MHz, supports 20MHz/40MHz Bandwidth and IEEE 802.11 b/g/n20/n40 4) 2.4GHz: operating within 2400-2483.5MHz, GFSK, 1Mbps&2Mbps 5) 5.2GHz Wi-Fi: operating with 5150-5250MHz, supports 20MHz/40MHz/80MHz Bandwidth and IEEE 802.11 a/n20/n40/ac20/ac40/ac80 6) 5.2GHz SDR: operating within 5150-5250MHz, supports 10MHz/20MHz/40MHz Bandwidth 7) 5.8GHz SDR: operating within 5725-5850MHz, supports 1.4MHz/3MHz/5MHz/10MHz/20MHz/40MHz/60MHz/80MHz Bandwidth 8) 5.8GHz Wi-Fi: operating within 5725-5850MHz, supports 20MHz/40MHz/80MHz Bandwidth and IEEE 802.11 a/n20/n40/ac20/ac40/ac80
<b>Technical Specification of 5.2GHz SDR</b>	
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 42 channels for 40MHz Bandwidth

Antenna Type:	Integral Antenna
Antenna Number:	1Tx for SISO mode (ANT0 or ANT1 or ANT2 or ANT3) 2Tx for MIMO mode (ANT0+ANT1, or ANT0+ANT3, or ANT2+ANT1, or ANT2+ANT3, Uncorrelated signal)
Antenna Gain:	1.5dBi for ANT0 / ANT1 3.5dBi for ANT2 / ANT3 (Provided by the Client)
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	12	5181	18	5187	34	5203
2	5171	13	5182	19	5188	35	5204
3	5172	14	5183	20	5189	36	5205
4	5173	15	5184	21	5190	37	5206
5	5174	16	5185	22	5191	38	5207
6	5175	17	5186	23	5192	39	5227
7	5176	28	5197	24	5193	40	5228
8	5177	29	5198	25	5194	41	5229
9	5178	30	5199	26	5195	42	5230
10	5179	31	5200	27	5196	/	/
11	5180	32	5201	33	5202	/	/

### 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 Circuit Diagram for further details.

### 3.5 Submitted Documents

- Application Form
- ID Label and Location Info
- User Manual
- Operation Description

## 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 testing were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all tests were performed on model TKGS3 in this report.

### 4.3 Special Accessories and Auxiliary Equipment

**Table 5: List of Accessories and Auxiliary Equipment**

Description	Manufacturer	Model	S/N	Rating
Laptop	Lenovo	T480	PF-16A6N8	/
AC/DC Adapter	/	PD-30CN	/	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

### 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)

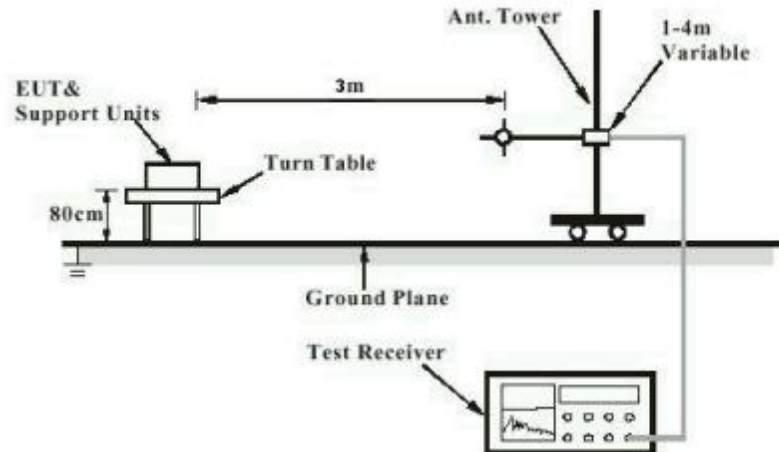


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

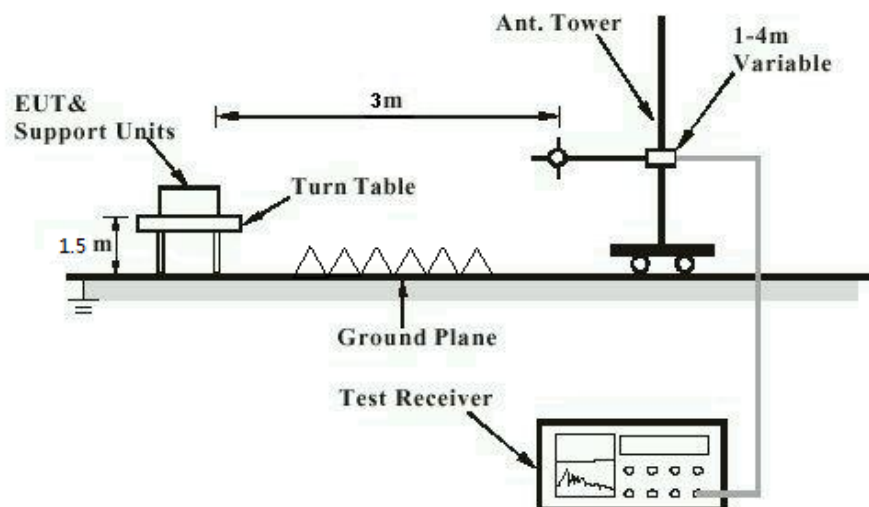


Diagram of Measurement Configuration for Mains Conduction Measurement

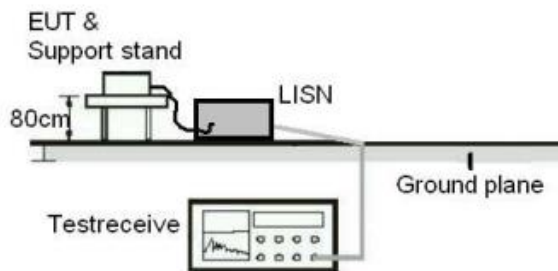
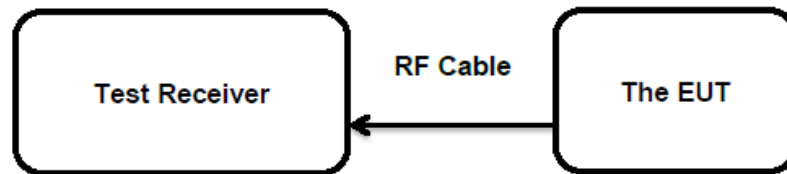


Diagram of Measurement Configuration for Conducted Transmitter Measurement



## 5 Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

**RESULT:** **Pass**

**Test Specification**

Test standard : FCC Part 15.203  
Limit : the use of antennas with directional gains that do not exceed 6 dBi

The EUT have Integral Antennas, the max. uncorrelated antenna gain is 3.5dBi for 5.2GHz SDR, 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 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 : 2023-11-29 to 2024-01-03  
Input voltage : Fully charged battery  
Operation mode : A  
Test channel : Low / Middle / High  
Ambient temperature : 25.2 °C  
Relative humidity : 37 %  
Atmospheric pressure : 101 kPa

For details refer to following test result.

**Table 6: Test Result of Maximum Conducted Output Power, 5.2GHz SDR**

Worst case: SISO mode (ANT 1)

Test Mode	Test Channel (MHz)	Measured Average Power		Limit (W)
		(dBm)	(W)	
10MHz BW	5157	2.29	0.0017	< 0.25
	5162	6.96	0.0050	
	5167	13.02	0.0200	
	5168	13.93	0.0247	
	5169	15.81	0.0381	
	5170	9.69	0.0093	
	5175	12.88	0.0194	
	5185	12.91	0.0195	
	5195	12.48	0.0177	
	5200	17.73	0.0593	
	5245	17.27	0.0533	
20MHz BW	5161	0.84	0.0012	
	5167	12.82	0.0191	
	5168	13.84	0.0242	
	5169	15.7	0.0372	
	5170	12.87	0.0194	
	5180	13.88	0.0244	
	5195	13.43	0.0220	
	5200	17.65	0.0582	
	5240	17.73	0.0593	
40MHz BW	5170	-0.6	0.0009	
	5175	11.98	0.0158	
	5180	13.6	0.0229	
	5185	13.87	0.0244	
	5186	13.12	0.0205	
	5187	16.31	0.0428	
	5188	12.78	0.0190	
	5195	13.96	0.0249	
	5200	17.82	0.0605	
	5230	17.66	0.0583	
<b>Maximum Measured Value</b>		<b>17.82</b>	<b>0.0605</b>	

Worst case: MIMO mode (ANT 0+1)

Test Mode	Test Channel (MHz)	Measured Average Power		Limit (W)	
		(dBm)	(W)		
10MHz BW	5157	3.90	0.0025	< 0.25	
	5167	11.48	0.0141		
	5168	12.59	0.0182		
	5169	13.58	0.0228		
	5170	15.12	0.0325		
	5200	16.34	0.0431		
	5245	17.42	0.0552		
20MHz BW	5161	5.30	0.0034		
	5169	14.77	0.0300		
	5170	16.80	0.0479		
	5200	17.67	0.0585		
	5240	17.7	0.0589		
40MHz BW	5170	8.96	0.0079		
	5185	13.73	0.0236		
	5186	15.63	0.0366		
	5187	15.63	0.0366		
	5188	16.81	0.0480		
	5200	17.97	0.0627		
	5230	17.51	0.0564		
<b>Maximum Measured Value</b>		<b>17.97</b>	<b>0.0627</b>		

Note:

- 1) The cable loss is taken into account in results,  $e.i.r.p. = P_{(Peak\ power)} + G$
- 2) Antenna gain(G) of 5.2GHz SDR: 3.5dBi (uncorrelated Signals)

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### 5.1.3 Conducted 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 : 2023-11-29 to 2024-01-03  
Input voltage : Fully charged battery  
Operation mode : A  
Test channel : Low / Middle / High  
Ambient temperature : 25.2 °C  
Relative humidity : 37 %  
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A

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### 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 : 2023-11-29 to 2024-01-03  
Input voltage : Fully charged battery  
Operation mode : A  
Test channel : Low / Middle / High  
Ambient temperature : 25.2 °C  
Relative humidity : 37 %  
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A

**Prüfbericht - Nr.: CN24F0Q2 005**  
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Page 22 of 25**5.1.5 26dB Bandwidth and 99% 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 : 2023-11-29 to 2024-01-03  
Input voltage : Fully charged battery  
Operation mode : A  
Test channel : Low / Middle / High  
Ambient temperature : 25.2 °C  
Relative humidity : 37 %  
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A

## 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	: <ul style="list-style-type: none"><li>• 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.</li><li>• Restricted Bands meet the requirement of 15.209 limit</li></ul>
Kind of test site	: 3m Semi-anechoic Chamber

**Test Setup**

Date of testing	: 2023-12-05 to 2023-12-27
Input voltage	: Fully charged 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

**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 appendix A

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### 5.1.7 Conducted Emission on AC Mains

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

Test standard : FCC Part 15.207(a)  
Basic standard : ANSI C63.10: 2013  
Frequency range : 0.15 – 30MHz  
Classification : Class B  
Limits : FCC Part 15.207(a)  
Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2023-11-24  
Input voltage : AC 120V, 60Hz  
Operation mode : A  
Earthing : Not connected  
Ambient temperature : 25.0 °C  
Relative humidity : 51.2 %  
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A



## 6 Photographs of the Test Set-Up

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

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