

TEST REPORT

Reference No..... : WTX24X05101436W005
FCC ID..... : S3K5GCPE1
Applicant..... : Global Telecom Corp
Address..... : 17901 Von Karman Ave, Suite 600, Irvine, California 92614 United States of America
Manufacturer..... : Global Telecom Corp
Address..... : 17901 Von Karman Ave, Suite 600, Irvine, California 92614 United States of America
Product Name..... : 5G Indoor CPE
Model No..... : TITAN 5000
Standards..... : FCC Part 90
Date of Receipt sample..... : 2024-05-06
Date of Test..... : 2024-05-06 to 2024-07-03
Date of Issue..... : 2024-07-03
Test Report Form No..... : WTX_Part 90W
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

Prepared By:

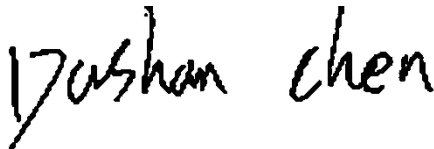
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Report version

Version No.	Date of issue	Description
Rev.00	2024-07-03	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT:	
Product Name:	5G Indoor CPE
Trade Name:	Global Telecom, TITAN
Model No.:	TITAN 5000
Adding Model(s):	/
Rated Voltage:	DC12V
Battery:	/
Adapter Model:	RD1202000 Input:AC100-240 50/60Hz 1.0A Output:DC12V2.0A
<i>Note: The test data is gathered from a production sample provided by the manufacturer.</i>	

Technical Characteristics of EUT:	
5G	
Support Networks:	5G NR
Support Band:	N14, N26
Type of Modulation:	DFT-s-OFDM: PI/2 BPSK QPSK / 16QAM / 64QAM / 256QAM CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM
Uplink Frequency:	5G NR n14: Tx: 788-798MHz, 5G NR n26: Tx: 814-824MHz,
Downlink Frequency:	5G NR n14: Rx: 758-768MHz, 5G NR n26: Rx: 859-869MHz,
RF Output Power:	5G NR n14: 23.42dBm, 5G NR n26: 22.96dBm,
Type of Emission:	5G NR n14: 9M72G7D, 9M66W7D 5G NR n26: 8M94G7D, 8M94W7D
Type of Modulation:	QPSK, 16QAM
Antenna Type:	FPC Antenna
Antenna Gain:	5G NR n14: 5.18dBi, 5G NR n26: 3.87dBi,
<i>Note The Antenna Gain is provided by the customer and can affect the validity of results.</i>	

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 2: Frequency Allocations and Radio Treaty Matters; General Rules and Regulations.

FCC Rules Part 90: Private Land Mobile Radio Services.

TIA/EIA 603 E March 2016: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

ANSI C63.26-2015: American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services.

KDB 971168 D01 Power Measurement License Digital Systems v03r01: Measurement Guidance for Certification of Licensed Digital Transmitters.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with TIA/EIA 603 E/ KDB 971168/ ANSI C63.26. The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

1.4 Test Facility

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. Laboratory has been recognized to perform compliance testing on equipment subject to the Commission's Declaration Of Conformity (DOC). The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A and the CAB identifier is CN0057.

1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	5G NR n14	Low, Middle, High Channels
TM2	5G NR n26	Low, Middle, High Channels

Test Conditions	
Temperature:	22~25 °C
Relative Humidity:	50~55 %.
ATM Pressure:	1019 mbar

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
DC Cable	1.50	Unshielded	Without Ferrite
Network Cable	1.15	Unshielded	Without Ferrite

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Notebook	Lenovo	TianYi 100-14IBD	PF0F4ABV

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	$\pm 0.42\text{dB}$
Occupied Bandwidth	Conducted	$\pm 1.5\%$
Frequency Stability	Conducted	2.3%
Transmitter Spurious Emissions	Conducted	$\pm 0.42\text{dB}$
Transmitter Spurious Emissions	Radiated	30-200MHz $\pm 4.52\text{dB}$
		0.2-1GHz $\pm 5.56\text{dB}$
		1-6GHz $\pm 3.84\text{dB}$
		6-18GHz $\pm 3.92\text{dB}$

1.7 Test Equipment List and Details

Fixed asset Number	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
WTXE1041 A1001	Communication Tester	Rohde & Schwarz	CMW500	148650	2024-02-24	2025-02-23
WTXE1104 A1001	MXG Vector Signal Generator	Agilent	N5182A	MY47420108	2024-02-24	2025-02-23
WTXE1104 A1002	DC Power Supply	Agilent	E3634A	MY40009294	2024-02-24	2025-02-23
WTXE1104 A1003	EXG Analog Signal Generator	KEYSIGHT	N5173B	MY61252892	2024-02-24	2025-02-23
WTXE1104 A1004	Spectrum Analyzer	Rohde&Schwarz	FSV40-N	101559	2024-02-24	2025-02-23
WTXE1104 A1005-2	Band Reject Filter Group	Tonscend	JS0806-F	23A806F0658	2024-03-23	2025-03-22
☐ Chamber A: Below 1GHz						
WTXE1005 A1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2024-02-24	2025-02-23
WTXE1001 A1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2024-03-19	2025-03-18
WTXE1007 A1001	Amplifier	HP	8447F	2805A03475	2024-02-24	2025-02-23
WTXE1010 A1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2025-02-25
WTXE1010 A1006	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2024-02-24	2025-02-23
☐ Chamber A: Above 1GHz						
WTXE1005 A1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2024-02-24	2025-02-23
WTXE1001 A1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2024-03-19	2025-03-18
WTXE1065 A1001	Amplifier	C&D	PAP-1G18	2002	2024-02-27	2025-02-26
WTXE1010 A1005	Horn Antenna	ETS	3117	00086197	2024-02-26	2025-02-25
WTXE1010 A1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2025-03-16
WTXE1003 A1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2024-02-29	2025-02-28
WTXE1004	Spectrum	Rohde &	FSP40	100612	2024-02-27	2025-02-26

A1-001	Analyzer	Schwarz				
☐ Chamber B:Below 1GHz						
WTXE1010 A1006	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2024-03-17	2027-03-16
WTXE1038 A1001	Amplifier	Agilent	8447D	2944A104 57	2024-02-24	2025-02-23
WTXE1001 A1002	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2024-02-24	2025-02-23
☒ Chamber C:Below 1GHz						
WTXE1093 A1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2024-02-27	2025-02-26
WTXE1010 A1013-1	Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2024-04-18	2027-04-17
WTXE1007 A1002	Amplifier	HP	8447F	2944A038 69	2024-02-24	2025-02-23
WTXE1010 A1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2025-02-25
☒ Chamber C: Above 1GHz						
WTXE1093 A1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2024-02-27	2025-02-26
WTXE1103 A1005	Horn Antenna	POAM	RTF-118A	1820	2023-03-10	2026-03-09
WTXE1103 A1006	Amplifier	Tonscend	TAP01018050	AP22E806 235	2024-02-27	2025-02-26
WTXE1010 A1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2025-03-16
WTXE1003 A1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2024-02-29	2025-02-28

Software List			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission)*	Farad	EZ-EMC	RA-03A1
LTE Test System*	Tonscend	JS1120-1	V2.5

*Remark: indicates software version used in the compliance certification testing.

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§1.1307, §2.1093	RF Exposure	Compliant
§90.635	RF Output Power	Compliant
-	Peak-to-average Ratio (PAR) of Transmitter	Compliant
§90.691	Emission Bandwidth	Compliant
§90.691	Spurious Emissions at Antenna Terminal	Compliant
§90.691	Spurious Radiation Emissions	Compliant
§2.917(a), §90.691	Out of Band Emissions	Compliant
§90.213	Frequency Stability	Compliant

N/A: Not applicable.

3. RF Exposure

3.1 Standard Applicable

According to §1.1307 and §2.1093, the portable transmitter must comply the RF exposure requirements.

3.2 Test Result

This product complied with the requirement of the RF exposure, please see the SAR report.

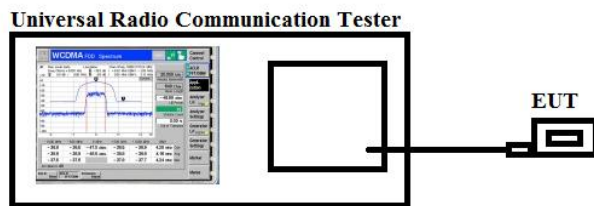
4. RF Output Power

4.1 Standard Applicable

According to §90.635, Limitations on power and antenna height.

4.2 Test Procedure

- Conducted output power test method:



- Radiated power test method:

1. The setup of EUT is according with per ANSI/TIA Standard 603E and ANSI C63.26 measurement procedure.
2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

4.3 Summary of Test Results/Plots

Max. Radiated Power:

5G NR n14

Channel Bandwidth: 5MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	23.72	PASS
	MCH	23.53	PASS
	HCH	23.68	PASS
CP-QPSK	LCH	23.36	PASS
	MCH	23.45	PASS
	HCH	23.39	PASS
CP-16QAM	LCH	23.71	PASS
	MCH	23.62	PASS
	HCH	23.53	PASS
Channel Bandwidth: 10MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	23.61	PASS
	MCH	23.55	PASS
	HCH	23.29	PASS
CP-QPSK	LCH	23.34	PASS
	MCH	23.51	PASS
	HCH	23.60	PASS
CP-16QAM	LCH	23.18	PASS
	MCH	23.39	PASS
	HCH	23.47	PASS

5G NR n26(814-824MHz)

Channel Bandwidth: 5MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	23.86	PASS
	MCH	23.29	PASS
	HCH	23.35	PASS
CP-QPSK	LCH	23.49	PASS
	MCH	23.50	PASS
	HCH	23.62	PASS
CP-16QAM	LCH	23.19	PASS
	MCH	23.45	PASS
	HCH	23.70	PASS
Channel Bandwidth: 10MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	MCH	23.69	PASS
CP-QPSK	MCH	23.18	PASS
CP-16QAM	MCH	23.27	PASS

Max. Conducted Output Power

Please refer to Appendix A: Average Power Output Data

Test result: Pass

5. Peak-to-average Ratio (PAR) of Transmitter

5.1 Standard Applicable

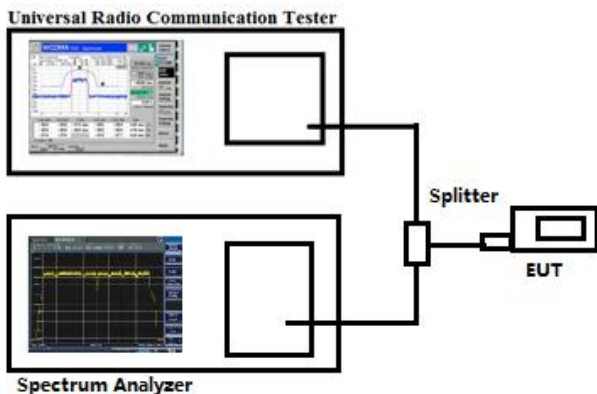
N/A

5.2 Test Procedure

According with KDB 971168

1. The signal analyzer's CCDF measurement profile is enabled.
2. Frequency = carrier center frequency.
3. Measurement BW > Emission bandwidth of signal.
4. The signal analyzer was set to collect one million samples to generate the CCDF curve.
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power.

Test Configuration for the emission bandwidth testing:



5.3 Summary of Test Results

Please refer to Appendix B: Peak-to-Average Ratio

Test result: Pass

6. Emission Bandwidth

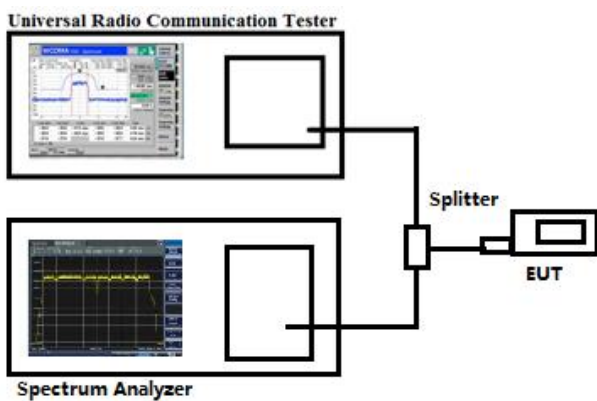
6.1 Standard Applicable

According to §90.691, Emission mask requirements for EA-based systems.

6.2 Test Procedure

According to §22.917(b), the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26dB below the transmitter power.

Test Configuration for the emission bandwidth testing:



6.3 Summary of Test Results/Plots

Please refer to Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test result: Pass

7. Out of Band Emissions at Antenna Terminal

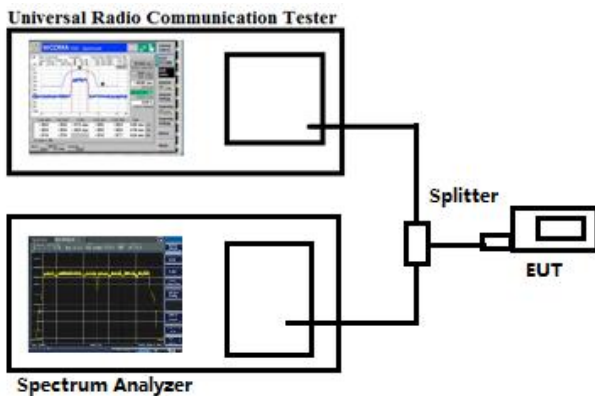
7.1 Standard Applicable

According to §90.691, Emission mask requirements for EA-based systems.

7.2 Test Procedure

The RF output terminal of the transmitter was connected to the input of the spectrum analyzer via a suitable attenuation. The RBW of the spectrum analyzer was set to 100kHz and 1MHz for the scan frequency from 30MHz to 1GHz and the scan frequency from 1GHz to up to 10th harmonic.

Test Configuration for the out of band emissions testing:



7.3 Summary of Test Results/Plots

Please refer to Appendix D & E: Band Edge & Conducted Spurious Emission

Test result: Pass

8. Spurious Radiated Emissions

8.1 Standard Applicable

According to §90.691, Emission mask requirements for EA-based systems.

8.2 Test Procedure

1. The setup of EUT is according with per ANSI/TIA-603-E and ANSI C63.4-2014 measurement procedure.
2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

$\text{Spurious attenuation limit in dB} = 43 + 10 \log_{10}(\text{power out in Watts})$

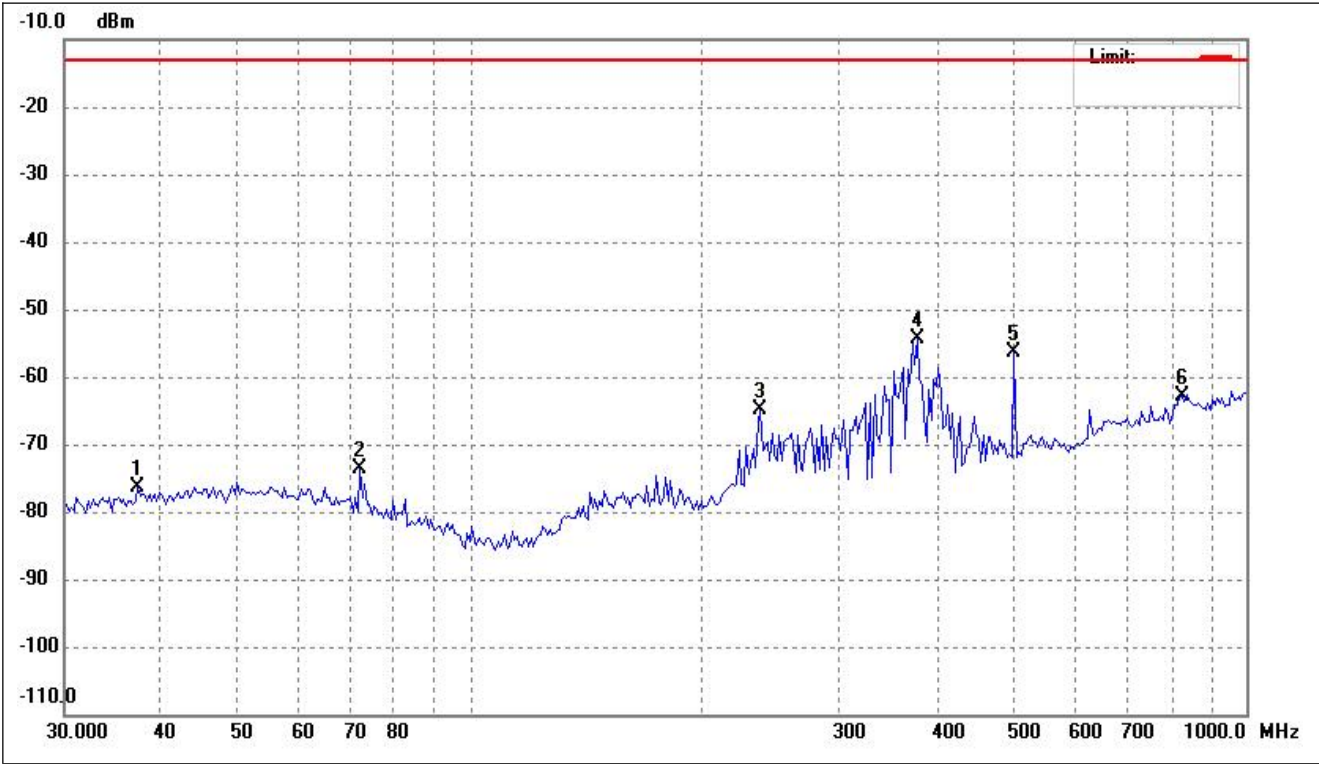
8.3 Summary of Test Results/Plots

Note: 1. this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

2. All test modes (different bandwidth and different modulation) are performed, but only the worst case is recorded in this report.

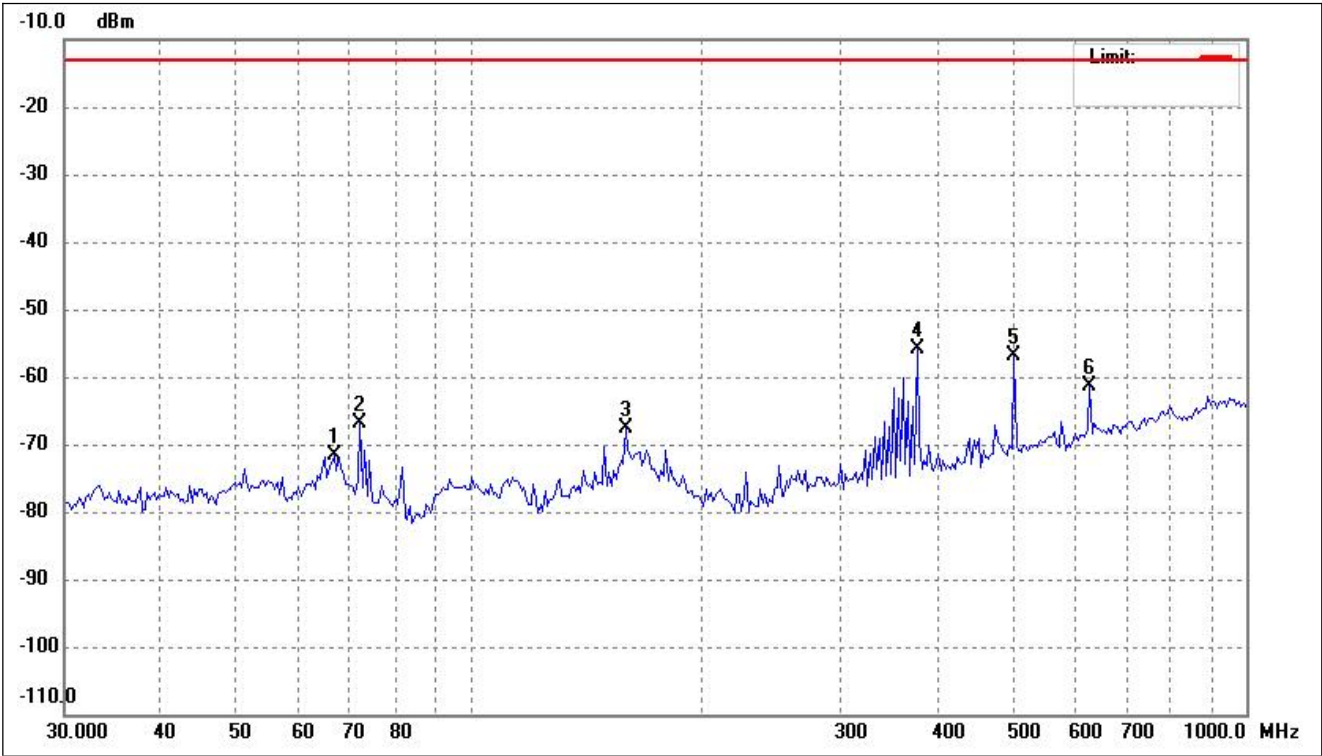
➤ Spurious Emissions Below 1GHz

Test Mode	5G NR n14	Polarity:	Horizontal
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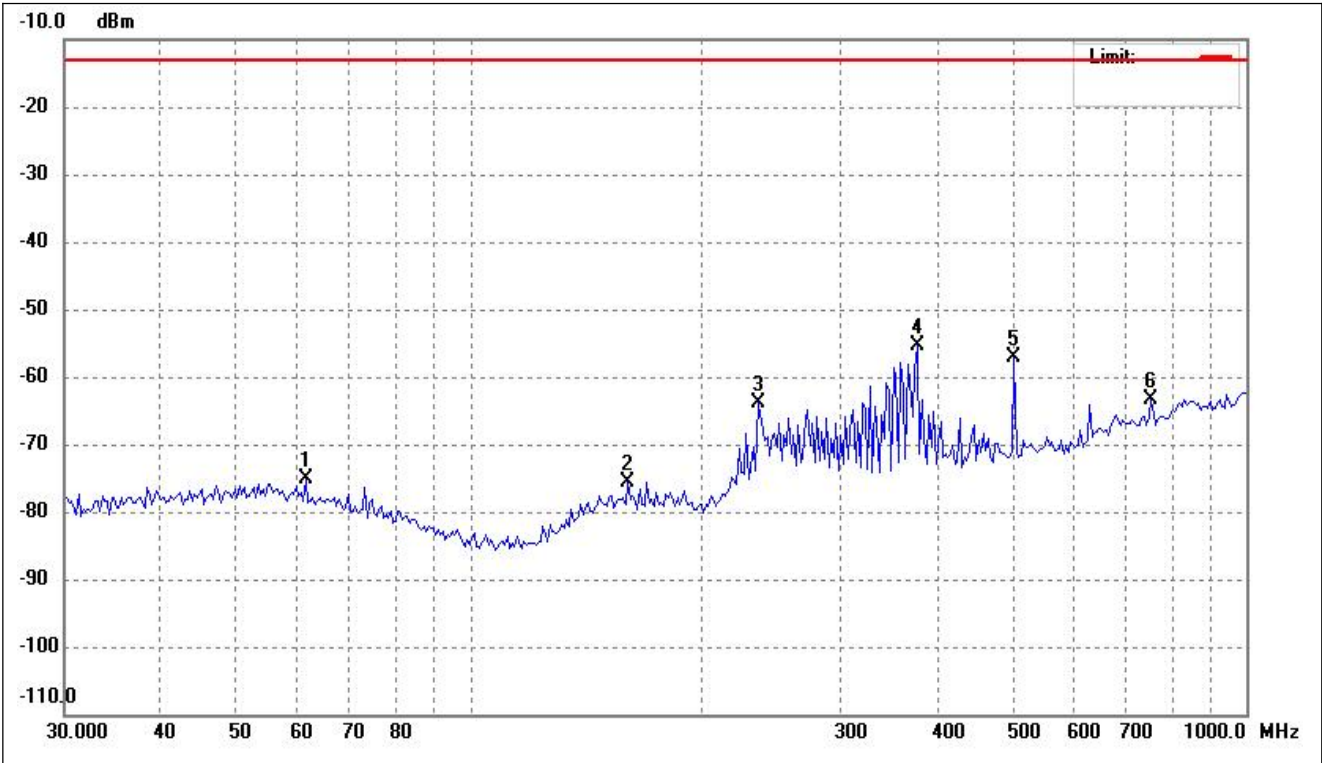
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	37.3017	-78.70	2.29	-76.41	-13.00	-63.41	ERP
2	72.2111	-74.32	0.68	-73.64	-13.00	-60.64	ERP
3	236.7928	-71.03	6.28	-64.75	-13.00	-51.75	ERP
4	376.5228	-58.90	4.58	-54.32	-13.00	-41.32	ERP
5	502.2473	-63.59	7.31	-56.28	-13.00	-43.28	ERP
6	827.1795	-76.21	13.24	-62.97	-13.00	-49.97	ERP

Test Mode	5G NR n14	Polarity:	Vertical
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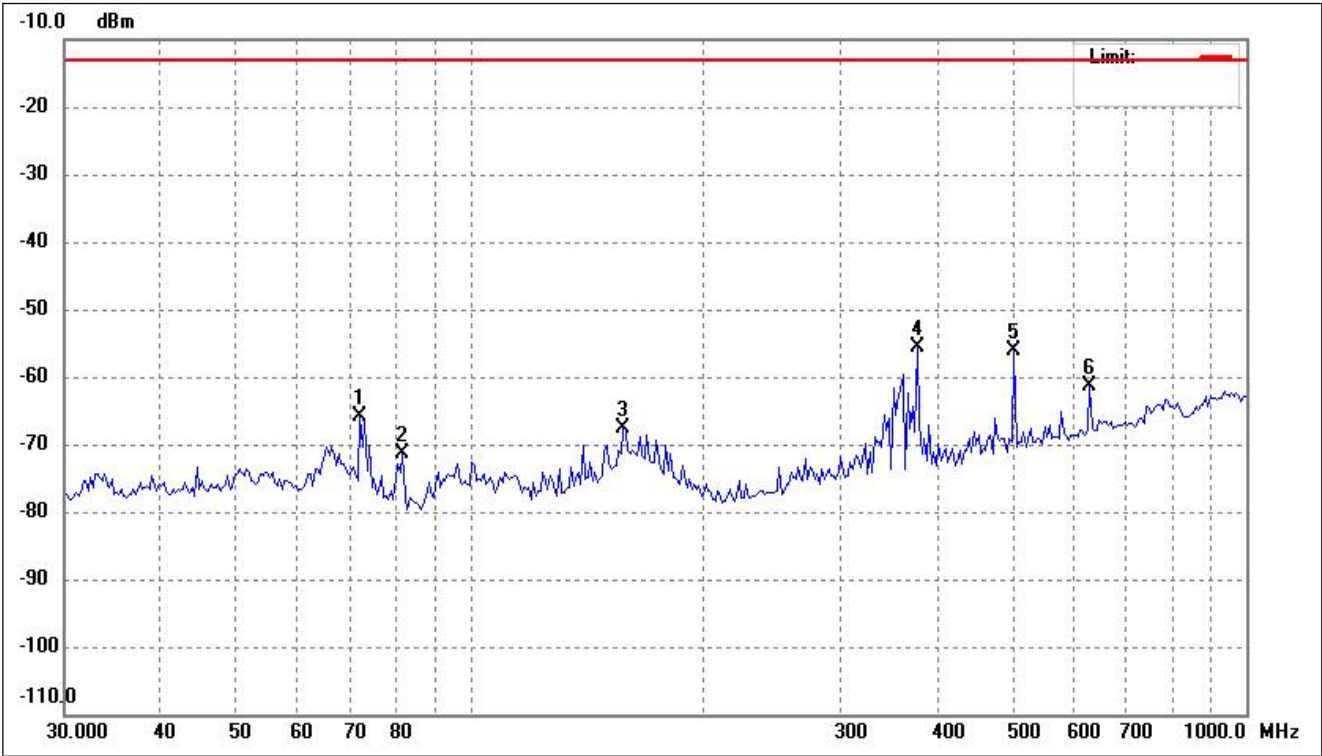
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	66.8395	-74.70	3.15	-71.55	-13.00	-58.55	ERP
2	72.2111	-69.43	2.50	-66.93	-13.00	-53.93	ERP
3	158.6399	-75.09	7.39	-67.70	-13.00	-54.70	ERP
4	376.5228	-60.71	4.89	-55.82	-13.00	-42.82	ERP
5	502.2473	-63.98	7.21	-56.77	-13.00	-43.77	ERP
6	628.8936	-70.58	9.19	-61.39	-13.00	-48.39	ERP

Test Mode	5G NR n26	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	61.4343	-77.24	2.11	-75.13	-13.00	-62.13	ERP
2	159.7586	-76.58	0.98	-75.60	-13.00	-62.60	ERP
3	235.1346	-69.95	6.00	-63.95	-13.00	-50.95	ERP
4	376.5228	-59.92	4.58	-55.34	-13.00	-42.34	ERP
5	502.2473	-64.35	7.31	-57.04	-13.00	-44.04	ERP
6	754.9628	-74.54	11.20	-63.34	-13.00	-50.34	ERP

Test Mode	5G NR n26	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	72.2111	-68.36	2.50	-65.86	-13.00	-52.86	ERP
2	81.9478	-71.31	-0.12	-71.43	-13.00	-58.43	ERP
3	157.5290	-74.55	6.95	-67.60	-13.00	-54.60	ERP
4	376.5228	-60.57	4.89	-55.68	-13.00	-42.68	ERP
5	502.2473	-63.34	7.21	-56.13	-13.00	-43.13	ERP
6	628.8936	-70.48	9.19	-61.29	-13.00	-48.29	ERP

Note: $\text{Margin} = (\text{Reading} + \text{Correct}) - \text{Limit}$

- Spurious Emissions Above 1GHz
- 5G NR n14 Mode

Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel (790.5MHz)						
1581.00	-52.73	4.93	-47.80	-13	-34.80	H
2371.50	-43.64	8.45	-35.19	-13	-22.19	H
1581.00	-46.36	4.93	-41.43	-13	-28.43	V
2371.50	-48.18	8.45	-39.73	-13	-26.73	V
Middle Channel (793.0MHz)						
1586.00	-55.45	5.17	-50.28	-13	-37.28	H
2379.00	-42.73	8.51	-34.22	-13	-21.22	H
1586.00	-48.18	5.17	-43.01	-13	-30.01	V
2379.00	-53.64	8.51	-45.13	-13	-32.13	V
High Channel (795.5MHz)						
1591.00	-45.45	5.27	-40.18	-13	-27.18	H
2386.50	-46.36	8.51	-37.85	-13	-24.85	H
1591.00	-47.27	5.27	-42.00	-13	-29.00	V
2386.50	-42.73	8.51	-34.22	-13	-21.22	V

➤ 5G NR n26(814-824MHz) Mode

Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel (814.7MHz)						
1629.40	-51.82	4.96	-46.86	-13	-33.86	H
2444.10	-52.73	8.53	-44.20	-13	-31.20	H
1629.40	-48.18	4.96	-43.22	-13	-30.22	V
2444.10	-53.64	8.53	-45.11	-13	-32.11	V
Middle Channel (819.0MHz)						
1638.00	-46.36	5.28	-41.08	-13	-28.08	H
2457.00	-50.00	8.67	-41.33	-13	-28.33	H
1638.00	-53.64	5.28	-48.36	-13	-35.36	V
2457.00	-45.45	8.67	-36.78	-13	-23.78	V
High Channel (823.3MHz)						
1646.60		5.33	-45.58	-13	-32.58	H
2469.90	-42.73	8.61	-34.12	-13	-21.12	H
1646.60	-44.55	5.33	-39.22	-13	-26.22	V
2469.90	-48.18	8.61	-39.57	-13	-26.57	V

Note: Result=Reading+ Correct, Margin= Result- Limit

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

9. Frequency Stability

9.1 Standard Applicable

According to §90.213, Frequency stability.

9.2 Test Procedure

According to §2.1055, the following test procedure was performed.

The Frequency Stability is measured directly with a Frequency Domain Analyzer. Frequency Deviation in ppm is calculated from the measured peak to peak value.

The Carrier Frequency Stability over Power Supply Voltage and over Temperature is measured with a Frequency Domain Analyzer in histogram mode.

9.3 Summary of Test Results/Plots

Please refer to Appendix F: Frequency Stability

Test result: Pass

APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

***** END OF REPORT *****