

TEST REPORT

Reference No..... : WTX25X01014466W004
FCC ID : S3K5GCPE3
Applicant : Global Telecom Engineering, Inc.
Address : 4695 MacArthur Court Suite 1100, Newport Beach CA 92660
Manufacturer : The same as Applicant
Address : The same as Applicant
Product Name : TITAN 5400
Model No..... : G5G-X62O
Standards : FCC Part 22, FCC Part 24, FCC Part 27
Date of Receipt sample : 2025-01-16
Date of Test..... : 2025-01-16 to 2025-03-23
Date of Issue : 2025-03-23
Test Report Form No. : WTX_Part 22_Part 27W
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:

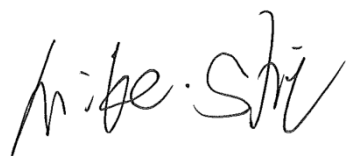
Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road,
Block 70 Bao'an District, Shenzhen, Guangdong, China

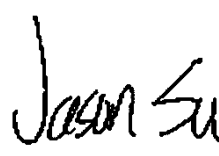
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Tested by:

Approved by:



Mike Shi/Project Engineer



Jason Su/Manager

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Report version

Version No.	Date of issue	Description
Rev.00	2025-03-23	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT:	
Product Name:	TITAN 5400
Trade Name:	TITAN 5400
Model No.:	G5G-X62O
Adding Model(s):	/
Rated Voltage:	DC48V
Battery:	/
Adapter Model:	RP024W01-4800500YE Input:AC100-240 50/60Hz 0.6A Output:DC48V0.5A
<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:	N2, n5, n7, n12, n13, n25, n26, n30, n38, n41, n66, n70, n71, n77, n78
EN-DC Mode	DC_12A_n25A; DC_12A_n2A; DC_12A_n2A-n38A; DC_12A_n2A-n41A; DC_12A_n2A-n78A; DC_12A_n30A; DC_12A_n38A; DC_12A_n38A-n78A; DC_12A_n41A; DC_12A_n41A-n78A; DC_12A_n77A; DC_12A_n77A-n77A; DC_12A_n78A; DC_12A_n78A-n78A; DC_12A_n7A; DC_12A_n7A-n78A; DC_12A-30A_n2A; DC_12A-30A_n77A; DC_12A-30A_n77A-n77A; DC_13A_n25A; DC_13A_n2A; DC_13A_n2A-n77A; DC_13A_n77A; DC_13A_n77C; DC_13A_n78A; DC_13A_n78A-n78A; DC_13A_n7A; DC_13A_n7A-n78A; DC_13A-2A_n2A-n77A; DC_13A-46A_n2A; DC_13A-46A_n77A; DC_13A-46A-46A_n77A; DC_14A_n2A; DC_14A_n30A; DC_14A_n77A; DC_14A_n77A-n77A; DC_14A-30A_n2A; DC_14A-30A_n77A; DC_14A-30A_n77A-n77A; DC_1C_n78A; DC_25A_n41A; DC_25A_n77A; DC_25A_n78A; DC_25A-25A_n41A; DC_25A-25A_n77A; DC_25A-25A_n78A; DC_25A-41C_n41A; DC_26A_n25A; DC_26A_n41A; DC_26A_n78A; DC_26A_n78A-n78A; DC_2A_n12A; DC_2A_n14A; DC_2A_n30A; DC_2A_n38A; DC_2A_n38A-n71A; DC_2A_n38A-n78A; DC_2A_n41A; DC_2A_n41A-n41A; DC_2A_n41A-n71A; DC_2A_n41A-n78A; DC_2A_n41C; DC_2A_n5A; DC_2A_n5A-n77A; DC_2A_n71A; DC_2A_n71A-n78A; DC_2A_n77A; DC_2A_n77A-n77A; DC_2A_n77C; DC_2A_n78A; DC_2A_n78A-n78A; DC_2A_n7A; DC_2A_n7A-n78A; DC_2A-12A_n25A; DC_2A-12A_n2A; DC_2A-12A_n30A; DC_2A-12A_n41A; DC_2A-12A_n77A; DC_2A-12A_n78A; DC_2A-12A_n78A-n78A; DC_2A-12A_n7A; DC_2A-12A-30A_n2A; DC_2A-12A-30A_n77A; DC_2A-13A_n25A; DC_2A-13A_n2A; DC_2A-13A_n77A; DC_2A-13A_n77C; DC_2A-14A_n2A; DC_2A-14A_n30A; DC_2A-14A_n77A; DC_2A-14A-30A_n2A; DC_2A-14A-30A_n77A; DC_2A-2A_n12A; DC_2A-2A_n14A; DC_2A-2A_n30A; DC_2A-2A_n38A; DC_2A-2A_n41A; DC_2A-2A_n5A; DC_2A-2A_n5A-n77A; DC_2A-2A_n71A; DC_2A-2A_n77A; DC_2A-2A_n77C; DC_2A-2A_n78A; DC_2A-2A_n7A; DC_2A-2A-12A_n30A; DC_2A-2A-12A_n38A; DC_2A-2A-12A_n41A; DC_2A-2A-12A_n77A; DC_2A-2A-12A_n78A; DC_2A-2A-12A_n7A; DC_2A-2A-12A-30A_n77A; DC_2A-2A-13A_n77A; DC_2A-2A-13A_n77C; DC_2A-2A-14A_n30A; DC_2A-2A-14A_n77A; DC_2A-2A-2A_n14A; DC_2A-2A-30A_n12A; DC_2A-2A-30A_n14A; DC_2A-2A-30A_n5A; DC_2A-2A-30A_n77A; DC_2A-2A-46A_n5A; DC_2A-2A-46C_n5A; DC_2A-2A-46D_n5A; DC_2A-2A-5A_n30A; DC_2A-2A-5A_n41A; DC_2A-2A-5A_n5A; DC_2A-2A-5A_n77A; DC_2A-2A-5A_n77C; DC_2A-2A-5A_n78A; DC_2A-2A-5A_n7A; DC_2A-2A-5A-30A_n5A; DC_2A-2A-5A-30A_n77A; DC_2A-2A-5A-7A_n78A; DC_2A-2A-71A_n38A; DC_2A-2A-71A_n41A; DC_2A-2A-71A_n78A; DC_2A-2A-71A_n7A; DC_2A-2A-7A_n12A; DC_2A-2A-7A_n71A; DC_2A-2A-7A_n78A;

	DC_2A-2A-7A-12A_n78A; DC_2A-2A-7A-71A_n78A; DC_2A-30A_n12A; DC_2A-30A_n14A; DC_2A-30A_n2A; DC_2A-30A_n5A; DC_2A-30A_n77A; DC_2A-46A_n41A; DC_2A-46A_n41A-n41A; DC_2A-46A_n5A; DC_2A-46A_n71A; DC_2A-46A_n71A-n41A; DC_2A-46A_n77A; DC_2A-46A-46A_n77A; DC_2A-46C_n41A; DC_2A-46C_n41A-n41A; DC_2A-46C_n5A; DC_2A-46C_n71A; DC_2A-46D_n41A; DC_2A-46D_n41A-n41A; DC_2A-46D_n5A; DC_2A-46D_n71A; DC_2A-46E_n5A; DC_2A-4A_n38A; DC_2A-4A_n41A; DC_2A-4A-7A-7A_n5A; DC_2A-4A-7A-7A_n71A; DC_2A-4A-7A-7A_n78A; DC_2A-5A_n25A; DC_2A-5A_n2A; DC_2A-5A_n30A; DC_2A-5A_n38A; DC_2A-5A_n41A; DC_2A-5A_n5A; DC_2A-5A_n77A; DC_2A-5A_n77C; DC_2A-5A_n78A; DC_2A-5A_n78A-n78A; DC_2A-5A_n7A; DC_2A-5A-30A_n2A; DC_2A-5A-30A_n5A; DC_2A-5A-30A_n77A; DC_2A-5A-5A_n2A; DC_2A-5A-7A_n25A; DC_2A-5A-7A_n2A; DC_2A-5A-7A_n78A; DC_2A-5B_n2A; DC_2A-71A_n25A; DC_2A-71A_n2A; DC_2A-71A_n38A; DC_2A-71A_n41A; DC_2A-71A_n71A; DC_2A-71A_n77A; DC_2A-71A_n78A; DC_2A-71A_n7A; DC_2A-7A_n12A; DC_2A-7A_n25A; DC_2A-7A_n2A; DC_2A-7A_n5A; DC_2A-7A_n71A; DC_2A-7A_n78A; DC_2A-7A_n78A-n78A; DC_2A-7A_n7A; DC_2A-7A-12A_n25A; DC_2A-7A-12A_n2A; DC_2A-7A-12A_n78A; DC_2A-7A-71A_n25A; DC_2A-7A-71A_n2A; DC_2A-7A-71A_n78A; DC_2A-7A-7A_n25A; DC_2A-7A-7A_n5A; DC_2A-7A-7A_n78A-n78A; DC_2A-7C_n25A; DC_2A-7C_n5A; DC_2A-7C_n78A; DC_2A-7C_n78A-n78A; DC_2C_n41A; DC_2C_n71A; DC_30A_n12A; DC_30A_n14A; DC_30A_n2A; DC_30A_n5A; DC_30A_n5A-n77A; DC_30A_n77A; DC_30A_n77A-n77A; DC_38A_n78A; DC_41A_n77A; DC_41A_n77A-n77A; DC_41A_n78A; DC_41A_n78A-n78A; DC_41A-41A_n78A; DC_41A-42A_n77A; DC_41A-42A_n77A-n77A; DC_41A-42A_n78A; DC_41A-42C_n77A; DC_41A-42C_n77A-n77A; DC_41A-42C_n78A; DC_41C_n77A; DC_41C_n77A-n77A; DC_41C_n78A; DC_41C_n78A-n78A; DC_41C-42A_n77A; DC_41C-42A_n77A-n77A; DC_41C-42A_n78A; DC_41C-42C_n77A; DC_41C-42C_n77A-n77A; DC_41C-42C_n78A; DC_41D_n78A; DC_4A_n2A; DC_4A_n38A; DC_4A_n41A; DC_4A_n78A; DC_4A_n78A-n78A; DC_4A_n7A; DC_5A_n25A; DC_5A_n2A; DC_5A_n2A-n38A; DC_5A_n2A-n41A; DC_5A_n2A-n77A; DC_5A_n2A-n78A; DC_5A_n30A; DC_5A_n38A; DC_5A_n38A-n78A; DC_5A_n41A; DC_5A_n41A-n78A; DC_5A_n77A; DC_5A_n77A-n77A; DC_5A_n77C; DC_5A_n78A; DC_5A_n78A-n78A; DC_5A_n7A; DC_5A_n7A-n78A; DC_5A-2A_n2A-n77A; DC_5A-30A_n2A; DC_5A-30A_n5A; DC_5A-30A_n77A; DC_5A-30A_n77A-n77A; DC_5A-5A_n2A; DC_5A-7A_n25A; DC_5A-7A_n2A; DC_5A-7A_n77A; DC_5A-7A_n78A; DC_5A-7A_n7A; DC_5A-7A-7A_n78A; DC_5A-7C_n78A; DC_5A-7C_n7A; DC_5B_n2A; DC_71A_n25A; DC_71A_n2A; DC_71A_n2A-n38A; DC_71A_n2A-n41A; DC_71A_n2A-n78A; DC_71A_n38A; DC_71A_n38A-n78A; DC_71A_n41A; DC_71A_n41A-n78A; DC_71A_n77A;
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	DC_71A_n78A; DC_71A_n7A; DC_71A_n7A-n78A; DC_7A_n12A; DC_7A_n25A; DC_7A_n2A; DC_7A_n2A-n78A; DC_7A_n5A; DC_7A_n5A-n78A; DC_7A_n71A; DC_7A_n71A-n78A; DC_7A_n77A; DC_7A_n77A-n77A; DC_7A_n78A; DC_7A_n78A-n78A; DC_7A_n78C; DC_7A-12A_n25A; DC_7A-12A_n2A; DC_7A-12A_n77A; DC_7A-12A_n78A; DC_7A-12A_n7A; DC_7A-25A_n77A; DC_7A-25A_n78A; DC_7A-25A-25A_n77A; DC_7A-25A-25A_n78A; DC_7A-26A_n78A; DC_7A-46A_n78A; DC_7A-46C_n78A; DC_7A-46D_n78A; DC_7A-46E_n78A; DC_7A-71A_n25A; DC_7A-71A_n2A; DC_7A-71A_n77A; DC_7A-71A_n78A; DC_7A-71A_n7A; DC_7A-7A_n25A; DC_7A-7A_n5A; DC_7A-7A_n77A; DC_7A-7A_n77A-n77A; DC_7A-7A_n78A; DC_7A-7A_n78A-n78A; DC_7A-7A-25A_n77A; DC_7A-7A-25A_n78A; DC_7A-7A-25A-25A_n77A; DC_7A-7A-25A-25A_n78A; DC_7A-7A-26A_n78A; DC_7C_n25A; DC_7C_n2A; DC_7C_n5A; DC_7C_n77A; DC_7C_n77A-n77A; DC_7C_n78A; DC_7C_n78A-n78A; DC_7C-25A_n77A; DC_7C-25A_n78A; DC_7C-25A-25A_n77A; DC_7C-25A-25A_n78A
Uplink Frequency:	5G NR n2: 1850-1910MHz, 5G NR n5: 824-849MHz, 5G NR n7: 2500-2570MHz, 5G NR n12: 699-716MHz, 5G NR n13: 777-787MHz, 5G NR n25: 1850-1915MHz 5G NR n26: 824-849MHz 5G NR n30: 2305-2315MHz 5G NR n38: 2570-2620MHz 5G NR n41: 2496-2690MHz, 5G NR n66: 1710-1780MHz 5G NR n70: 1695-1710MHz 5G NR n71: 663-698MHz 5G NR n77: 3450-3550MHz 5G NR n77: 3700-3980MHz 5G NR n78: 3450-3550MHz 5G NR n78: 3700-3800MHz
Downlink Frequency:	5G NR n2: 1930-1990MHz, 5G NR n5: 869-894MHz, 5G NR n7: 2620-2690MHz, 5G NR n12: 729-746MHz, 5G NR n13: 746-756MHz, 5G NR n25: 1930-1995MHz 5G NR n26: 869-894MHz 5G NR n30: 2350-2360MHz 5G NR n38: 2570-2620MHz 5G NR n41: 2496-2690MHz, 5G NR n66: 2110-2200MHz

	5G NR n70: 1995-2020MHz 5G NR n71: 617-652MHz 5G NR n77: 3450-3550MHz 5G NR n77: 3700-3980MHz 5G NR n78: 3450-3550MHz 5G NR n78: 3700-3800MHz
RF Output Power:	5G NR n2:23.61dBm 5G NR n5:24.97dBm 5G NR n7:23.84dBm 5G NR n12:24.55dBm 5G NR n13:24.32dBm 5G NR n25:23.78dBm 5G NR n26: 23.14dBm 5G NR n30:22.97dBm 5G NR n38:23.68dBm 5G NR n41:25.87dBm 5G NR n66:23.53dBm 5G NR n70:23.80dBm 5G NR n71: 24.79dBm 5G NR n77(3450-3550MHz): 27.38dBm 5G NR n77(3700-3980MHz): 27.31dBm 5G NR n78(3450-3550MHz): 27.36dBm 5G NR n78(3700-3980MHz): 25.94dBm
RF Output Power(DC):	5G NR DC_2A_n71A: 24.86dBm 5G NR DC_4A_n41A: 24.52dBm 5G NR DC_5A_n7A: 23.91dBm 5G NR DC_7A_n12A: 24.75dBm 5G NR DC_12A_n30A: 22.69dBm 5G NR DC_13A_n66A: 23.54dBm 5G NR DC_14A_n2A: 23.71dBm 5G NR DC_26A_n25A: 23.67dBm 5G NR DC_30A_n14A: 24.97dBm 5G NR DC_38A_n78A(3450-3550MHz): 26.32dBm 5G NR DC_38A_n78A(3700-3800MHz): 26.26dBm 5G NR DC_41A_n77A(3450-3550MHz): 26.37dBm 5G NR DC_41A_n77A(3700-3980MHz): 26.36dBm 5G NR DC_66A_n5A: 25.08dBm
Type of Emission:	5G NR n2: 17M9G7D, 17M9W7D 5G NR n5:17M8G7D, 17M8W7D 5G NR n7: 17M9G7D, 17M9W7D 5G NR n12: 13M4G7D, 13M4W7D 5G NR n13: 8M91G7D, 8M91W7D 5G NR n25: 17M9G7D, 17M9W7D

	5G NR n26: 17M8G7D, 17M8W7D 5G NR n30: 8M95G7D, 8M95W7D 5G NR n38: 35M8G7D, 35M8W7D 5G NR n41: 96M5G7D, 96M4W7D 5G NR n66: 38M6G7D, 38M6W7D 5G NR n70: 13M4G7D, 13M4W7D 5G NR n71: 17M8G7D, 17M8W7D 5G NR n77(3450-3550MHz): 96M2G7D, 96M3W7D 5G NR n77(3700-3980MHz): 96M3G7D, 96M3W7D 5G NR n78(3450-3550MHz): 96M2G7D, 96M1W7D 5G NR n78(3700-3980MHz): 96M3G7D, 96M3W7D
Type of Emission(DC):	5G NR DC_2A_n71A: 17M8G7D, 17M8W7D 5G NR DC_4A_n41A: 95M8G7D, 95M7W7D 5G NR DC_5A_n7A: 17M9G7D, 17M9W7D 5G NR DC_7A_n12A: 13M4G7D, 13M4W7D 5G NR DC_12A_n30A: 8M96G7D, 8M94W7D 5G NR DC_13A_n66A: 38M5G7D, 38M5W7D 5G NR DC_14A_n2A: 17M9G7D, 17M9W7D 5G NR DC_26A_n25A: 17M9G7D, 17M9W7D 5G NR DC_30A_n14A: 8M93G7D, 8M92W7D 5G NR DC_38A_n78A(3450-3550MHz): 96M3G7D, 96M3W7D 5G NR DC_38A_n78A(3700-3800MHz): 96M3G7D, 96M3W7D 5G NR DC_41A_n77A(3450-3550MHz): 96M3G7D, 96M3W7D 5G NR DC_41A_n77A(3700-3980MHz): 96M4G7D, 96M4W7D 5G NR DC_66A_n5A: 17M8G7D, 17M8W7D
Type of Modulation:	DFT-s-OFDM: PI/2 BPSK QPSK / 16QAM / 64QAM / 256QAM CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM
Antenna Type:	PCB Antenna
Antenna Gain:	5G NR n2: 3.71dBi 5G NR n5: 3.16dBi 5G NR n7: 4.6dBi 5G NR n12: -2.13dBi 5G NR n13: 1.37dBi 5G NR n25: 1.56dBi 5G NR n26(824-849MHz): 3.16dBi 5G NR n30: 4.79dBi 5G NR n38: 1.83dBi 5G NR n41: 2.45dBi 5G NR n66: 5.89dBi 5G NR n70: 5.89dBi 5G NR n71: -2.83dBi 5G NR n77(3450-3550): 8.62dBi 5G NR n77(3700-3980): 8.15dBi

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	5G NR n78(3450-3550): 8.62dBi 5G NR n 78(3700-3800): 8.15dBi
<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 22: Private Land Mobile Radio Services.

FCC Rules Part 24: Public Mobile Services.

FCC Rules Part 27: Miscellaneous Wireless Communications 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

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. 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 n2(SCS:15 kHz)	Low, Middle, High Channels
TM2	5G NR n5(SCS:15 kHz)	Low, Middle, High Channels
TM3	5G NR n7(SCS:15 kHz)	Low, Middle, High Channels
TM4	5G NR n12(SCS:15 kHz)	Low, Middle, High Channels
TM5	5G NR n13(SCS:15 kHz)	Low, Middle, High Channels
TM6	5G NR n25(SCS:15 kHz)	Low, Middle, High Channels
TM7	5G NR n26(SCS:15 kHz)	Low, Middle, High Channels
TM8	5G NR n30(SCS: 15 kHz)	Low, Middle, High Channels
TM9	5G NR n38(SCS:30 kHz)	Low, Middle, High Channels
TM10	5G NR n41(SCS:30 kHz)	Low, Middle, High Channels
TM11	5G NR n66(SCS:15 kHz)	Low, Middle, High Channels
TM12	5G NR n70(SCS:15 kHz)	Low, Middle, High Channels
TM13	5G NR n71(SCS:15 kHz)	Low, Middle, High Channels
TM14	5G NR n77(3450-3550MHz) (SCS:30 kHz)	Low, Middle, High Channels
TM15	5G NR n77(3700-3980MHz) (SCS:30 kHz)	Low, Middle, High Channels
TM16	5G NR n78(3450-3550MHz) (SCS:30 kHz)	Low, Middle, High Channels
TM17	5G NR n78(3700-3980MHz) (SCS:30 kHz)	Low, Middle, High Channels

Test Conditions	
Temperature:	22~25 °C
Relative Humidity:	45~75 %
ATM Pressure:	1019 mbar

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
DC Cable	0.7	Unshielded	Without Ferrite
Network Cable	1.2	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 PC	ASUSTEK	FA506IC	/

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	0.57dB
Occupied Bandwidth	Conducted	0.015MHz
Frequency Stability	Conducted	2.3%
Transmitter Spurious Emissions	Conducted	0.42dB
Transmitter Spurious Emissions	Radiated	30-200MHz, 4.52dB
		0.2-1GHz 5.56dB
		1-6GHz, 3.84dB
		6-18GHz, 3.92dB

1.7 Test Equipment List and Details

Fixed asset Number	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
WTXE1041A 1001	Communication Tester	Rohde & Schwarz	CMW500	148650	2024-02-24	2025-02-23
WTXE1022A 1002	GSM Tester	Rohde & Schwarz	CMU200	114403	2024-02-27	2025-02-26
WTXE1091A 1001	UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY574505 25	2024-02-27	2025-02-26
WTXE1005A 1005	Spectrum Analyzer	Agilent	N9020A	US471401 02	2024-03-19	2025-03-18
WTXE1084A 1001	Spectrum Analyzer	Agilent	N9020A	MY543205 48	2024-02-24	2025-02-23
WTXE1044A 1001	Signal Generator	Agilent	83752A	3610A014 53	2024-02-24	2025-02-23
WTXE1045A 1001	Vector Signal Generator	Agilent	N5182A	MY470702 02	2024-02-24	2025-02-23
WTXE1018A 1001	Power Divider	Weinschel	1506A	PM204	2024-02-29	2025-02-28
WTXE1088A 1001-2	EXA Signal Analyzer	KEYSIGHT	N9010B	MY590704 94	2024-02-24	2025-02-23
WTXE1092A 1001-2	Band Reject Filter Group	Tonscend	JS0806-F	20180603 19	2024-03-23	2025-03-22
WTXE1103A 1003	Attenuator	Pasternack	PE4007-4	/	2024-02-24	2025-02-23
WTXE1003A 1-005	Coaxial Cable	/	0M4RFC	/	2025-01-03	2025-07-02
☐ Chamber A: Below 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2024-02-24	2025-02-23
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2024-03-19	2025-03-18
WTXE1007A 1001	Amplifier	HP	8447F	2805A034 75	2024-02-24	2025-02-23
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2025-02-25
WTXE1010A 1006	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2024-02-24	2025-02-23
WTXE1104A 1032-1	Coaxial Cable	/	RC_6G-N-M	/	2024-03-15	2025-03-14
WTXE1104A	Coaxial Cable	/	RC_6G-N-M	/	2024-03-15	2025-03-14

1032-2						
WTXE1104A 1032-3	Coaxial Cable	/	RC_6G-N-M	/	2024-03-15	2025-03-14
☐ Chamber A: Above 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2024-02-24	2025-02-23
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2024-03-19	2025-03-18
WTXE1065A 1001	Amplifier	C&D	PAP-1G18	2002	2024-02-27	2025-02-26
WTXE1010A 1005	Horn Antenna	ETS	3117	00086197	2024-02-26	2025-02-25
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2025-03-16
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2024-02-29	2025-02-28
WTXE1004A 1-001	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2024-02-27	2025-02-26
WTXE1104A 1033-1	Coaxial Cable	/	C16-07-07	/	2024-03-15	2025-03-14
WTXE1104A 1033-2	Coaxial Cable	/	C16-07-07	/	2024-03-15	2025-03-14
WTXE1104A 1033-3	Coaxial Cable	/	C16-07-07	/	2024-03-15	2025-03-14
☐ Chamber B:Below 1GHz						
WTXE1010A 1006	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2024-03-17	2027-03-16
WTXE1038A 1001	Amplifier	Agilent	8447D	2944A104 57	2024-02-24	2025-02-23
WTXE1001A 1002	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2024-02-24	2025-02-23
WTXE1104A 1031-1	Coaxial Cable	/	1.5MRFC-LWB 3	/	2024-07-03	2025-07-02
WTXE1104A 1031-2	Coaxial Cable	/	RG 316	/	2024-07-03	2025-07-02
WTXE1104A 1031-3	Coaxial Cable	/	RG 316	/	2024-07-03	2025-07-02
☒ Chamber C:Below 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2024-02-27	2025-02-26
WTXE1010A	Trilog	Schwarz beck	VULB 9168	1194	2024-04-18	2027-04-17

1013-1	Broadband Antenna					
WTXE1007A 1002	Amplifier	HP	8447F	2944A038 69	2024-02-24	2025-02-23
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2025-02-25
WTXE1104A 1034-1	Coaxial Cable	/	RC_6G-N-M	/	2024-07-03	2025-07-02
WTXE1104A 1034-2	Coaxial Cable	/	RC_6G-N-M	/	2024-07-03	2025-07-02
WTXE1104A 1034-3	Coaxial Cable	/	RC_6G-N-M	/	2024-07-03	2025-07-02
☒ Chamber C: Above 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2024-02-27	2025-02-26
WTXE1103A 1005	Horn Antenna	POAM	RTF-118A	1820	2023-03-10	2026-03-09
WTXE1103A 1006	Amplifier	Tonscend	TAP01018050	AP22E806 235	2024-02-27	2025-02-26
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2025-03-16
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2024-02-29	2025-02-28
WTXE1104A 1035-1	Coaxial Cable	/	RC-18G-N-M	/	2024-07-03	2025-07-02
WTXE1104A 1035-2	Coaxial Cable	/	RC-18G-N-M	/	2024-07-03	2025-07-02
WTXE1104A 1035-3	Coaxial Cable	/	RC-18G-N-M	/	2024-07-03	2025-07-02

Fixed asset Number	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
WTXE1041A 1001	Communication Tester	Rohde & Schwarz	CMW500	148650	2025-02-23	2026-02-22
WTXE1022A 1002	GSM Tester	Rohde & Schwarz	CMU200	114403	2025-02-23	2026-02-22
WTXE1091A 1001	UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY574505 25	2025-02-23	2026-02-22
WTXE1005A 1005	Spectrum Analyzer	Agilent	N9020A	US471401 02	2025-02-23	2026-02-22
WTXE1084A 1001	Spectrum Analyzer	Agilent	N9020A	MY543205 48	2025-02-23	2026-02-22
WTXE1044A 1001	Signal Generator	Agilent	83752A	3610A014 53	2025-02-23	2026-02-22
WTXE1045A 1001	Vector Signal Generator	Agilent	N5182A	MY470702 02	2025-02-23	2026-02-22
WTXE1018A 1001	Power Divider	Weinschel	1506A	PM204	2025-02-23	2026-02-22
WTXE1088A 1001-2	EXA Signal Analyzer	KEYSIGHT	N9010B	MY590704 94	2025-02-23	2026-02-22
WTXE1092A 1001-2	Band Reject Filter Group	Tonscend	JS0806-F	20180603 19	2025-02-23	2026-02-22
WTXE1103A 1003	Attenuator	Pasternack	PE4007-4	/	2025-02-23	2026-02-22
WTXE1003A 1-005	Coaxial Cable	/	0M4RFC	/	2025-02-23	2026-02-22
☐ Chamber A: Below 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2025-02-23	2026-02-22
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2025-02-23	2026-02-22
WTXE1007A 1001	Amplifier	HP	8447F	2805A034 75	2025-02-23	2026-02-22
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2026-02-25
WTXE1010A 1006	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2025-02-23	2026-02-22
WTXE1104A 1032-1	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
WTXE1104A	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22

1032-2						
WTXE1104A 1032-3	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
☐ Chamber A: Above 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2025-02-23	2026-02-22
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2025-02-23	2026-02-22
WTXE1065A 1001	Amplifier	C&D	PAP-1G18	2002	2025-02-23	2026-02-22
WTXE1010A 1005	Horn Antenna	ETS	3117	00086197	2025-02-23	2026-02-22
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2026-03-16
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2025-02-23	2026-02-22
WTXE1004A 1-001	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2025-02-23	2026-02-22
WTXE1104A 1033-1	Coaxial Cable	/	C16-07-07	/	2025-02-23	2026-02-22
WTXE1104A 1033-2	Coaxial Cable	/	C16-07-07	/	2025-02-23	2026-02-22
WTXE1104A 1033-3	Coaxial Cable	/	C16-07-07	/	2025-02-23	2026-02-22
☐ Chamber B:Below 1GHz						
WTXE1010A 1006	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2024-03-17	2027-03-16
WTXE1038A 1001	Amplifier	Agilent	8447D	2944A104 57	2025-02-23	2026-02-22
WTXE1001A 1002	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2025-02-23	2026-02-22
WTXE1104A 1031-1	Coaxial Cable	/	1.5MRFC-LWB 3	/	2025-02-23	2026-02-22
WTXE1104A 1031-2	Coaxial Cable	/	RG 316	/	2025-02-23	2026-02-22
WTXE1104A 1031-3	Coaxial Cable	/	RG 316	/	2025-02-23	2026-02-22
☒ Chamber C:Below 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2025-02-23	2026-02-22
WTXE1010A	Trilog	Schwarz beck	VULB 9168	1194	2024-04-18	2027-04-17

1013-1	Broadband Antenna					
WTXE1007A 1002	Amplifier	HP	8447F	2944A038 69	2025-02-23	2026-02-22
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2026-02-25
WTXE1104A 1034-1	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
WTXE1104A 1034-2	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
WTXE1104A 1034-3	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
☒ Chamber C: Above 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2025-02-23	2026-02-22
WTXE1103A 1005	Horn Antenna	POAM	RTF-118A	1820	2023-03-10	2026-03-09
WTXE1103A 1006	Amplifier	Tonscend	TAP01018050	AP22E806 235	2025-02-23	2026-02-22
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2026-03-16
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2025-02-23	2026-02-22
WTXE1104A 1035-1	Coaxial Cable	/	RC-18G-N-M	/	2025-02-23	2026-02-22
WTXE1104A 1035-2	Coaxial Cable	/	RC-18G-N-M	/	2025-02-23	2026-02-22
WTXE1104A 1035-3	Coaxial Cable	/	RC-18G-N-M	/	2025-02-23	2026-02-22

Software List			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission A)	Farad	EZ-EMC	RA-03A1 (1.1.4.2)
EMI Test Software (Radiated Emission B)	Farad	EZ-EMC	RA-03A1 (1.1.4.2)
EMI Test Software (Radiated Emission C)	Farad	EZ-EMC	RA-03A1-2 (1.1.4.2)
5G NR Test Ssystem	Tonscend	TS-1120	V2.4.0

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

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§2.1046, §22.913(a)(2), §24.232(c), §27.50(b)(10), §27.50(c)(10), §27.50(d)(4), §27.50(h)(2)	RF Output Power	Compliant
§24.232(d), §27.50(d)(5)	Peak-to-average Ratio (PAR) of Transmitter	Compliant
§22.917(b), §27.53, §2.1049	Emission Bandwidth	Compliant
§2.1053, §22.917(a), §24.238(a), §27.53(c)(2), §27.53(g), §27.53(h) §27.53(m)(4)	Spurious Emissions at Antenna Terminal	Compliant
§2.1053, §22.917(a), §24.238(a), §27.53(c)(2), §27.53(g), §27.53(h) §27.53(m)(4)	Spurious Radiation Emissions	Compliant
§2.1051, §22.917(a), §24.238(a), §27.53(c)(2), §27.53(g), §27.53(h), §27.53(m)(4)	Out of Band Emissions	Compliant
§2.1055, §22.355, §24.235, §27.54	Frequency Stability	Compliant

3. RF Output Power

3.1 Standard Applicable

According to §22.913(a)(2), the ERP of mobile and portable stations transmitters and auxiliary test transmitters must not exceed 7 Watts.

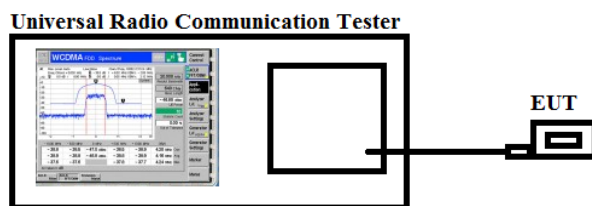
According to §24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to §27.50(d)(4), fixed, mobile, and portable (hand-held) stations operating in the 1710-1755MHz band and mobile and portable stations operating in the 1695-1710MHz and 1755-1780MHz bands are limited to 1 watt EIRP.

According to §27.50(c)(10), portable stations (hand-held devices) in the 698-746 MHz band are limited to 3 watts ERP.

3.2 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.

3.3 Summary of Test Results/Plots

Max. Radiated Power:

5G NR n2

Channel Bandwidth: 5 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.87	PASS
	MCH	26.12	PASS
	HCH	26.87	PASS
DFT-16QAM	LCH	26.28	PASS
	MCH	26.12	PASS
	HCH	26.32	PASS
Channel Bandwidth: 10 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.42	PASS
	MCH	26.22	PASS
	HCH	26.47	PASS
DFT-16QAM	LCH	26.41	PASS
	MCH	26.12	PASS
	HCH	26.32	PASS
Channel Bandwidth: 15 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	25.65	PASS
	MCH	25.78	PASS
	HCH	25.65	PASS
DFT-16QAM	LCH	25.78	PASS
	MCH	26.01	PASS
	HCH	25.45	PASS
Channel Bandwidth: 20MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	25.13	PASS
	MCH	25.38	PASS
	HCH	25.13	PASS
DFT-16QAM	LCH	25.39	PASS
	MCH	25.41	PASS
	HCH	25.17	PASS

5G NR n5

Channel Bandwidth: 5 MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.78	PASS
	MCH	26.45	PASS
	HCH	26.57	PASS
DFT-16QAM	LCH	26.65	PASS
	MCH	26.18	PASS
	HCH	26.98	PASS
Channel Bandwidth: 10 MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.54	PASS
	MCH	26.12	PASS
	HCH	26.89	PASS
DFT-16QAM	LCH	26.96	PASS
	MCH	26.74	PASS
	HCH	26.39	PASS
Channel Bandwidth: 15 MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.88	PASS
	MCH	26.74	PASS
	HCH	26.62	PASS
DFT-16QAM	LCH	26.74	PASS
	MCH	26.32	PASS
	HCH	26.79	PASS
Channel Bandwidth: 20MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.78	PASS
	MCH	26.02	PASS
	HCH	26.78	PASS
DFT-16QAM	LCH	26.89	PASS
	MCH	26.32	PASS
	HCH	26.78	PASS

5G NR n7

Channel Bandwidth: 5 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.17	PASS
	MCH	26.28	PASS
	HCH	26.72	PASS
DFT-16QAM	LCH	26.12	PASS
	MCH	26.74	PASS
	HCH	26.32	PASS
Channel Bandwidth: 10 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	25.74	PASS
	MCH	25.65	PASS
	HCH	25.98	PASS
DFT-16QAM	LCH	25.45	PASS
	MCH	25.69	PASS
	HCH	25.32	PASS
Channel Bandwidth: 15 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.74	PASS
	MCH	26.02	PASS
	HCH	26.32	PASS
DFT-16QAM	LCH	26.74	PASS
	MCH	26.35	PASS
	HCH	26.79	PASS
Channel Bandwidth: 20 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.32	PASS
	MCH	26.14	PASS
	HCH	26.58	PASS
DFT-16QAM	LCH	26.17	PASS
	MCH	26.47	PASS
	HCH	26.30	PASS

5G NR n12

Channel Bandwidth: 5 MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	25.36	PASS
	MCH	25.12	PASS
	HCH	25.35	PASS
DFT-16QAM	LCH	25.47	PASS
	MCH	25.32	PASS
	HCH	25.12	PASS
Channel Bandwidth: 10 MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	25.32	PASS
	MCH	25.12	PASS
	HCH	25.32	PASS
DFT-16QAM	LCH	25.36	PASS
	MCH	25.42	PASS
	HCH	25.31	PASS
Channel Bandwidth: 15 MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	25.31	PASS
	MCH	25.02	PASS
	HCH	25.12	PASS
DFT-16QAM	LCH	25.39	PASS
	MCH	25.74	PASS
	HCH	25.31	PASS

5G NR n13

Channel Bandwidth: 5 MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	25.78	PASS
	MCH	25.24	PASS
	HCH	25.12	PASS
DFT-16QAM	LCH	25.39	PASS
	MCH	25.15	PASS
	HCH	25.27	PASS
Channel Bandwidth: 10 MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	MCH	25.36	PASS
DFT-16QAM	MCH	25.12	PASS

5G NR n25

Channel Bandwidth: 5 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.78	PASS
	MCH	26.32	PASS
	HCH	26.78	PASS
DFT-16QAM	LCH	26.25	PASS
	MCH	26.79	PASS
	HCH	26.10	PASS
Channel Bandwidth: 10 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.98	PASS
	MCH	26.12	PASS
	HCH	26.25	PASS
DFT-16QAM	LCH	26.45	PASS
	MCH	26.58	PASS
	HCH	26.74	PASS

Channel Bandwidth: 15 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.32	PASS
	MCH	26.47	PASS
	HCH	26.28	PASS
DFT-16QAM	LCH	26.79	PASS
	MCH	26.32	PASS
	HCH	26.94	PASS
Channel Bandwidth: 20 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.02	PASS
	MCH	26.21	PASS
	HCH	26.17	PASS
DFT-16QAM	LCH	26.48	PASS
	MCH	26.63	PASS
	HCH	26.32	PASS

5G NR n26

Channel Bandwidth: 5 MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.87	PASS
	MCH	26.12	PASS
	HCH	26.25	PASS
DFT-16QAM	LCH	26.71	PASS
	MCH	26.32	PASS
	HCH	26.36	PASS
Channel Bandwidth: 10 MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.58	PASS
	MCH	26.31	PASS
	HCH	26.78	PASS
DFT-16QAM	LCH	26.28	PASS
	MCH	26.39	PASS
	HCH	26.36	PASS

Channel Bandwidth: 15 MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.71	PASS
	MCH	26.32	PASS
	HCH	26.47	PASS
DFT-16QAM	LCH	26.58	PASS
	MCH	26.69	PASS
	HCH	26.74	PASS
Channel Bandwidth: 20 MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.32	PASS
	MCH	26.47	PASS
	HCH	26.58	PASS
DFT-16QAM	LCH	26.96	PASS
	MCH	26.32	PASS
	HCH	26.31	PASS

5G NR n30

Channel Bandwidth: 5 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	23.45	PASS
	MCH	23.02	PASS
	HCH	23.15	PASS
DFT-16QAM	LCH	23.35	PASS
	MCH	23.41	PASS
	HCH	23.02	PASS
Channel Bandwidth: 10 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	MCH	23.28	PASS
DFT-16QAM	MCH	23.61	PASS

5G NR n38

Channel Bandwidth: 10 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.62	PASS
	MCH	25.24	PASS
	HCH	25.13	PASS
DFT-16QAM	LCH	25.35	PASS
	MCH	24.62	PASS
	HCH	25.18	PASS
Channel Bandwidth: 15 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	25.35	PASS
	MCH	24.81	PASS
	HCH	24.78	PASS
DFT-16QAM	LCH	24.98	PASS
	MCH	25.19	PASS
	HCH	25.19	PASS

Channel Bandwidth: 20 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.82	PASS
	MCH	24.97	PASS
	HCH	24.89	PASS
DFT-16QAM	LCH	25.39	PASS
	MCH	24.81	PASS
	HCH	24.65	PASS
Channel Bandwidth: 30 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	25.49	PASS
	MCH	24.92	PASS
	HCH	24.82	PASS
DFT-16QAM	LCH	25.08	PASS
	MCH	25.39	PASS
	HCH	24.81	PASS
Channel Bandwidth: 40 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	24.87	PASS
	MCH	25.24	PASS
	HCH	25.13	PASS
DFT-16QAM	LCH	24.81	PASS
	MCH	25.29	PASS
	HCH	24.81	PASS

5G NR n41

Channel Bandwidth: 20 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.02	PASS
	MCH	26.38	PASS
	HCH	26.17	PASS
DFT-16QAM	LCH	26.68	PASS
	MCH	26.01	PASS
	HCH	26.29	PASS
Channel Bandwidth: 30 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.71	PASS
	MCH	26.44	PASS
	HCH	26.60	PASS
DFT-16QAM	LCH	26.59	PASS
	MCH	26.73	PASS
	HCH	26.78	PASS
Channel Bandwidth: 40 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.36	PASS
	MCH	26.15	PASS
	HCH	26.68	PASS
DFT-16QAM	LCH	26.12	PASS
	MCH	26.68	PASS
	HCH	26.12	PASS
Channel Bandwidth: 50 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.28	PASS
	MCH	26.69	PASS
	HCH	26.74	PASS
DFT-16QAM	LCH	26.31	PASS
	MCH	26.59	PASS
	HCH	26.97	PASS

Channel Bandwidth: 60 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.31	PASS
	MCH	26.57	PASS
	HCH	26.72	PASS
DFT-16QAM	LCH	26.32	PASS
	MCH	26.56	PASS
	HCH	26.32	PASS
Channel Bandwidth: 70 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.65	PASS
	MCH	26.41	PASS
	HCH	26.85	PASS
DFT-16QAM	LCH	26.36	PASS
	MCH	26.63	PASS
	HCH	26.42	PASS
Channel Bandwidth: 80 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.39	PASS
	MCH	26.47	PASS
	HCH	26.75	PASS
DFT-16QAM	LCH	26.32	PASS
	MCH	26.58	PASS
	HCH	26.69	PASS
Channel Bandwidth: 90 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.72	PASS
	MCH	26.36	PASS
	HCH	26.66	PASS
DFT-16QAM	LCH	26.31	PASS
	MCH	26.82	PASS
	HCH	26.31	PASS

Channel Bandwidth: 100 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.78	PASS
	MCH	26.32	PASS
	HCH	26.12	PASS
DFT-16QAM	LCH	26.25	PASS
	MCH	26.36	PASS
	HCH	26.57	PASS

5G NR n66

Channel Bandwidth: 5 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	27.23	PASS
	MCH	27.00	PASS
	HCH	26.53	PASS
DFT-16QAM	LCH	27.50	PASS
	MCH	26.67	PASS
	HCH	27.22	PASS
Channel Bandwidth: 10 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	27.51	PASS
	MCH	27.29	PASS
	HCH	26.86	PASS
DFT-16QAM	LCH	27.05	PASS
	MCH	27.01	PASS
	HCH	27.06	PASS
Channel Bandwidth: 15 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	27.29	PASS
	MCH	26.59	PASS
	HCH	26.62	PASS
DFT-16QAM	LCH	27.09	PASS
	MCH	26.71	PASS
	HCH	26.74	PASS
Channel Bandwidth: 20 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict

DFT-QPSK	LCH	27.28	PASS
	MCH	26.57	PASS
	HCH	27.25	PASS
DFT-16QAM	LCH	26.96	PASS
	MCH	27.46	PASS
	HCH	26.56	PASS
Channel Bandwidth: 30 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.81	PASS
	MCH	26.59	PASS
	HCH	26.73	PASS
DFT-16QAM	LCH	27.03	PASS
	MCH	27.45	PASS
	HCH	27.42	PASS
Channel Bandwidth: 40 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	27.53	PASS
	MCH	26.83	PASS
	HCH	27.50	PASS
DFT-16QAM	LCH	26.65	PASS
	MCH	27.29	PASS
	HCH	27.07	PASS

5G NR n70

Channel Bandwidth: 15 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	MCH	26.21	PASS
DFT-16QAM	MCH	26.76	PASS

5G NR n71

Channel Bandwidth: 5 MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	22.25	PASS
	MCH	21.82	PASS
	HCH	21.89	PASS

DFT-16QAM	LCH	22.08	PASS
	MCH	22.46	PASS
	HCH	22.25	PASS
Channel Bandwidth: 10 MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	22.12	PASS
	MCH	21.86	PASS
	HCH	22.19	PASS
DFT-16QAM	LCH	21.82	PASS
	MCH	22.24	PASS
	HCH	22.12	PASS
Channel Bandwidth: 15 MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	22.19	PASS
	MCH	21.62	PASS
	HCH	21.82	PASS
DFT-16QAM	LCH	21.97	PASS
	MCH	21.85	PASS
	HCH	21.81	PASS
Channel Bandwidth: 20 MHz			
Modulation	Channel	E.r.p [dBm]	Verdict
DFT-QPSK	LCH	22.19	PASS
	MCH	21.62	PASS
	HCH	21.82	PASS
DFT-16QAM	LCH	21.97	PASS
	MCH	22.19	PASS
	HCH	21.69	PASS

5G NR n77(3450-3550MHz)

Channel Bandwidth: 10 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	27.45	PASS
	MCH	27.26	PASS
	HCH	27.21	PASS
DFT-16QAM	LCH	27.15	PASS
	MCH	27.28	PASS
	HCH	27.65	PASS

Channel Bandwidth: 15 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	27.25	PASS
	MCH	27.42	PASS
	HCH	27.25	PASS
DFT-16QAM	LCH	27.36	PASS
	MCH	27.54	PASS
	HCH	27.56	PASS
Channel Bandwidth: 20 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	27.12	PASS
	MCH	27.25	PASS
	HCH	27.32	PASS
DFT-16QAM	LCH	27.25	PASS
	MCH	27.32	PASS
	HCH	27.12	PASS
Channel Bandwidth: 30 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	27.32	PASS
	MCH	27.12	PASS
	HCH	27.25	PASS
DFT-16QAM	LCH	27.32	PASS
	MCH	27.52	PASS
	HCH	27.31	PASS
Channel Bandwidth: 40 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	27.21	PASS
	MCH	27.22	PASS
	HCH	27.28	PASS
DFT-16QAM	LCH	27.31	PASS
	MCH	27.36	PASS
	HCH	27.52	PASS
Channel Bandwidth: 50 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	27.62	PASS
	MCH	27.12	PASS

	HCH	27.57	PASS
DFT-16QAM	LCH	27.36	PASS
	MCH	27.58	PASS
	HCH	27.12	PASS
Channel Bandwidth: 60 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	27.28	PASS
	MCH	27.63	PASS
	HCH	27.12	PASS
DFT-16QAM	LCH	27.52	PASS
	MCH	27.31	PASS
	HCH	27.56	PASS
Channel Bandwidth: 70 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	27.52	PASS
	MCH	27.36	PASS
	HCH	27.18	PASS
DFT-16QAM	LCH	27.51	PASS
	MCH	27.11	PASS
	HCH	27.08	PASS
Channel Bandwidth: 80 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	27.22	PASS
	MCH	27.15	PASS
	HCH	27.52	PASS
DFT-16QAM	LCH	27.53	PASS
	MCH	27.58	PASS
	HCH	27.63	PASS
Channel Bandwidth: 90 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	27.02	PASS
	MCH	27.13	PASS
	HCH	27.28	PASS
DFT-16QAM	LCH	27.18	PASS
	MCH	27.19	PASS
	HCH	27.23	PASS

Channel Bandwidth: 100 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	27.52	PASS
	MCH	27.32	PASS
	HCH	27.12	PASS
DFT-16QAM	LCH	27.52	PASS
	MCH	27.63	PASS
	HCH	27.12	PASS

5G NR n77(3700-3980MHz)

Channel Bandwidth: 10 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	27.63	PASS
	MCH	27.02	PASS
	HCH	27.44	PASS
DFT-16QAM	LCH	27.52	PASS
	MCH	27.69	PASS
	HCH	27.02	PASS
Channel Bandwidth: 15 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	27.62	PASS
	MCH	27.38	PASS
	HCH	27.19	PASS
DFT-16QAM	LCH	27.58	PASS
	MCH	27.58	PASS
	HCH	27.63	PASS
Channel Bandwidth: 20 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	27.32	PASS
	MCH	27.41	PASS
	HCH	27.28	PASS
DFT-16QAM	LCH	27.63	PASS
	MCH	27.02	PASS
	HCH	27.58	PASS

Channel Bandwidth: 30 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	27.62	PASS
	MCH	27.12	PASS
	HCH	27.52	PASS
DFT-16QAM	LCH	27.02	PASS
	MCH	27.35	PASS
	HCH	27.14	PASS
Channel Bandwidth: 40 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	27.22	PASS
	MCH	27.18	PASS
	HCH	27.11	PASS
DFT-16QAM	LCH	27.19	PASS
	MCH	27.12	PASS
	HCH	27.16	PASS
Channel Bandwidth: 50 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	27.13	PASS
	MCH	27.15	PASS
	HCH	27.16	PASS
DFT-16QAM	LCH	27.26	PASS
	MCH	27.32	PASS
	HCH	27.41	PASS
Channel Bandwidth: 60 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	27.25	PASS
	MCH	26.96	PASS
	HCH	26.78	PASS
DFT-16QAM	LCH	26.82	PASS
	MCH	26.75	PASS
	HCH	26.62	PASS

Channel Bandwidth: 70 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.12	PASS
	MCH	26.58	PASS
	HCH	26.69	PASS
DFT-16QAM	LCH	26.74	PASS
	MCH	26.36	PASS
	HCH	26.32	PASS
Channel Bandwidth: 80 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.32	PASS
	MCH	26.12	PASS
	HCH	26.58	PASS
DFT-16QAM	LCH	26.85	PASS
	MCH	26.32	PASS
	HCH	26.14	PASS
Channel Bandwidth: 90 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.32	PASS
	MCH	26.71	PASS
	HCH	26.25	PASS
DFT-16QAM	LCH	26.32	PASS
	MCH	26.78	PASS
	HCH	26.69	PASS
Channel Bandwidth: 100 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.21	PASS
	MCH	26.28	PASS
	HCH	26.74	PASS
DFT-16QAM	LCH	26.69	PASS
	MCH	26.54	PASS
	HCH	26.32	PASS

5G NR n78(3450-3550MHz)

Channel Bandwidth: 10 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.24	PASS
	MCH	26.17	PASS
	HCH	26.68	PASS
DFT-16QAM	LCH	26.98	PASS
	MCH	26.21	PASS
	HCH	26.32	PASS
Channel Bandwidth: 15 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.12	PASS
	MCH	26.28	PASS
	HCH	26.58	PASS
DFT-16QAM	LCH	26.31	PASS
	MCH	26.28	PASS
	HCH	26.14	PASS
Channel Bandwidth: 20 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.32	PASS
	MCH	26.47	PASS
	HCH	26.85	PASS
DFT-16QAM	LCH	26.32	PASS
	MCH	26.15	PASS
	HCH	26.69	PASS
Channel Bandwidth: 30 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.28	PASS
	MCH	26.74	PASS
	HCH	26.32	PASS
DFT-16QAM	LCH	26.38	PASS
	MCH	26.17	PASS
	HCH	26.69	PASS

Channel Bandwidth: 40 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.39	PASS
	MCH	26.57	PASS
	HCH	26.21	PASS
DFT-16QAM	LCH	26.98	PASS
	MCH	26.32	PASS
	HCH	26.69	PASS
Channel Bandwidth: 50 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.87	PASS
	MCH	26.32	PASS
	HCH	26.47	PASS
DFT-16QAM	LCH	26.36	PASS
	MCH	26.85	PASS
	HCH	26.36	PASS
Channel Bandwidth: 60 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.21	PASS
	MCH	26.32	PASS
	HCH	26.58	PASS
DFT-16QAM	LCH	26.21	PASS
	MCH	26.39	PASS
	HCH	26.32	PASS
Channel Bandwidth: 70 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.39	PASS
	MCH	26.47	PASS
	HCH	26.32	PASS
DFT-16QAM	LCH	26.69	PASS
	MCH	26.17	PASS
	HCH	26.36	PASS

Channel Bandwidth: 80 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.58	PASS
	MCH	26.69	PASS
	HCH	26.12	PASS
DFT-16QAM	LCH	26.32	PASS
	MCH	26.39	PASS
	HCH	26.57	PASS
Channel Bandwidth: 90 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.87	PASS
	MCH	26.87	PASS
	HCH	26.98	PASS
DFT-16QAM	LCH	26.21	PASS
	MCH	26.25	PASS
	HCH	26.69	PASS
Channel Bandwidth: 100 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.35	PASS
	MCH	26.74	PASS
	HCH	26.32	PASS
DFT-16QAM	LCH	26.45	PASS
	MCH	26.39	PASS
	HCH	26.87	PASS

5G NR n78(3700-3800MHz)

Channel Bandwidth: 10 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.98	PASS
	MCH	26.12	PASS
	HCH	26.68	PASS
DFT-16QAM	LCH	26.58	PASS
	MCH	26.98	PASS
	HCH	26.12	PASS
Channel Bandwidth: 15 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.86	PASS
	MCH	26.32	PASS
	HCH	26.77	PASS
DFT-16QAM	LCH	26.99	PASS
	MCH	26.21	PASS
	HCH	26.12	PASS
Channel Bandwidth: 20 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	27.22	PASS
	MCH	27.31	PASS
	HCH	27.42	PASS
DFT-16QAM	LCH	27.38	PASS
	MCH	27.63	PASS
	HCH	27.69	PASS
Channel Bandwidth: 30 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	27.12	PASS
	MCH	27.61	PASS
	HCH	27.02	PASS
DFT-16QAM	LCH	27.32	PASS
	MCH	27.32	PASS
	HCH	27.02	PASS

Channel Bandwidth: 40 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.93	PASS
	MCH	26.45	PASS
	HCH	26.85	PASS
DFT-16QAM	LCH	26.32	PASS
	MCH	26.67	PASS
	HCH	26.69	PASS
Channel Bandwidth: 50 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.87	PASS
	MCH	26.32	PASS
	HCH	26.75	PASS
DFT-16QAM	LCH	26.96	PASS
	MCH	26.65	PASS
	HCH	26.31	PASS
Channel Bandwidth: 60 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.14	PASS
	MCH	26.28	PASS
	HCH	26.69	PASS
DFT-16QAM	LCH	26.74	PASS
	MCH	26.36	PASS
	HCH	26.78	PASS
Channel Bandwidth: 70 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.69	PASS
	MCH	26.62	PASS
	HCH	26.42	PASS
DFT-16QAM	LCH	26.36	PASS
	MCH	26.98	PASS
	HCH	26.12	PASS

Channel Bandwidth: 80 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.39	PASS
	MCH	26.58	PASS
	HCH	26.32	PASS
DFT-16QAM	LCH	26.74	PASS
	MCH	26.41	PASS
	HCH	26.93	PASS
Channel Bandwidth: 90 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	LCH	26.32	PASS
	MCH	26.14	PASS
	HCH	26.57	PASS
DFT-16QAM	LCH	26.58	PASS
	MCH	26.68	PASS
	HCH	26.41	PASS
Channel Bandwidth: 100 MHz			
Modulation	Channel	E.i.r.p [dBm]	Verdict
DFT-QPSK	MCH	26.39	PASS
DFT-16QAM	MCH	26.74	PASS

Max. Conducted Output Power

Please refer to Appendix A: Average Power Output Data

Test result: Pass

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

4.1 Standard Applicable

According to §24.232(d), power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51, in measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

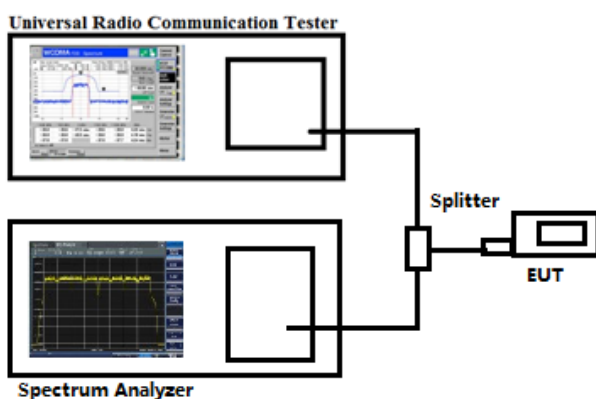
According to §27.50(B), the peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

4.2 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:



4.3 Summary of Test Results

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

Test result: Pass

Waltek Testing Group (Shenzhen) Co., Ltd.

[Http://www.waltek.com.cn](http://www.waltek.com.cn)

5. Emission Bandwidth

5.1 Standard Applicable

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.

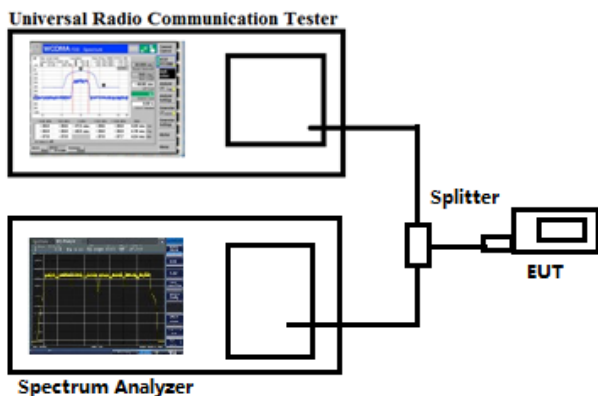
According to §24.238(b), the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26dB below the transmitter power.

According to §27.53, 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.

5.2 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:



5.3 Summary of Test Results/Plots

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

Test result: Pass

6. Out of Band Emissions at Antenna Terminal

6.1 Standard Applicable

According to §22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to §24.238(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to §27.53(h), the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

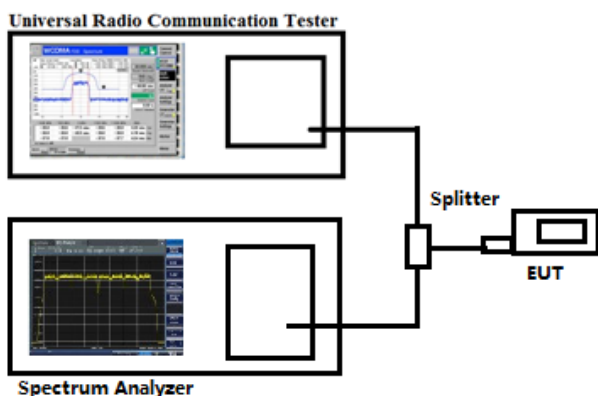
According to §27.53(g), for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB.

According to §27.53(m)(4), for mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5MHz.

6.2 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:



6.3 Summary of Test Results/Plots

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

Test result: Pass

7. Spurious Radiated Emissions

7.1 Standard Applicable

According to §22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to §24.238(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to §27.53(h), the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

According to §27.53(g) the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB.

7.2 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.

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

7.3 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.*

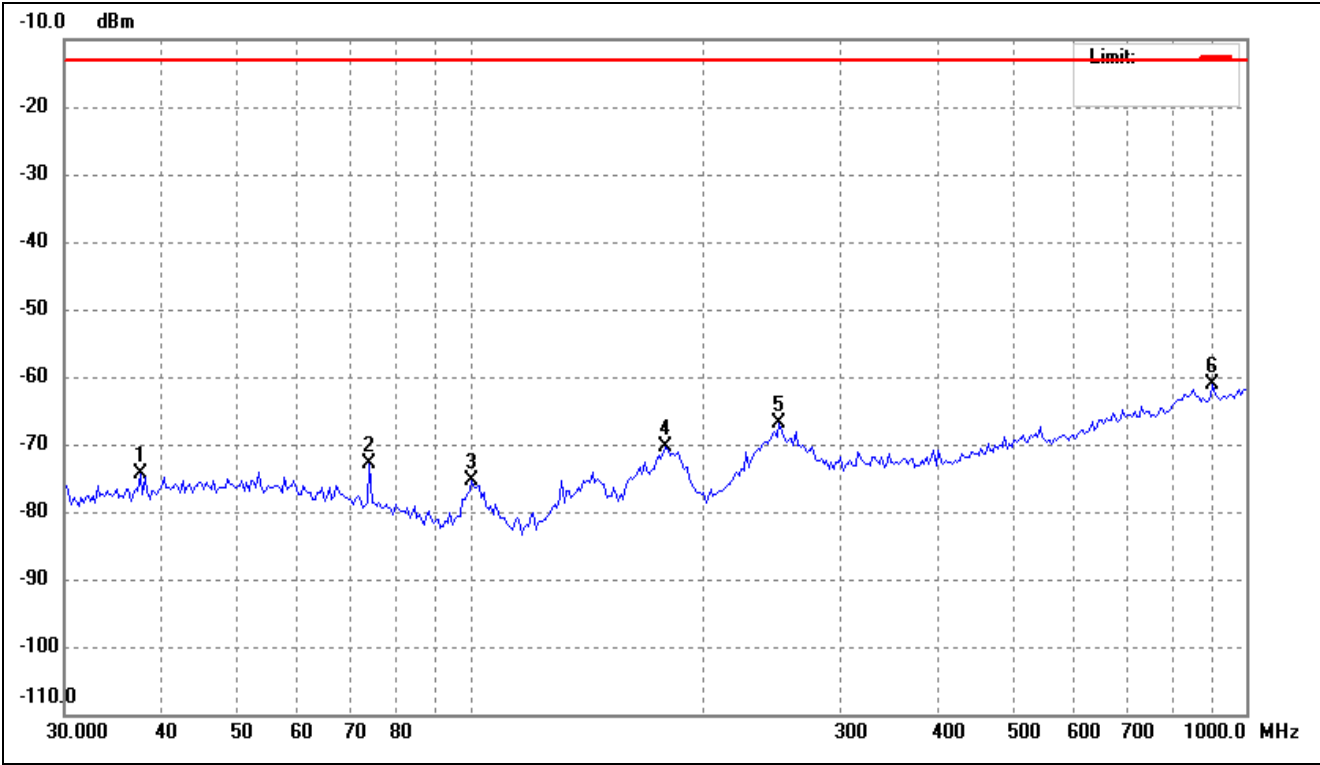
➤ Spurious Emissions Below 1GHz

Test Mode

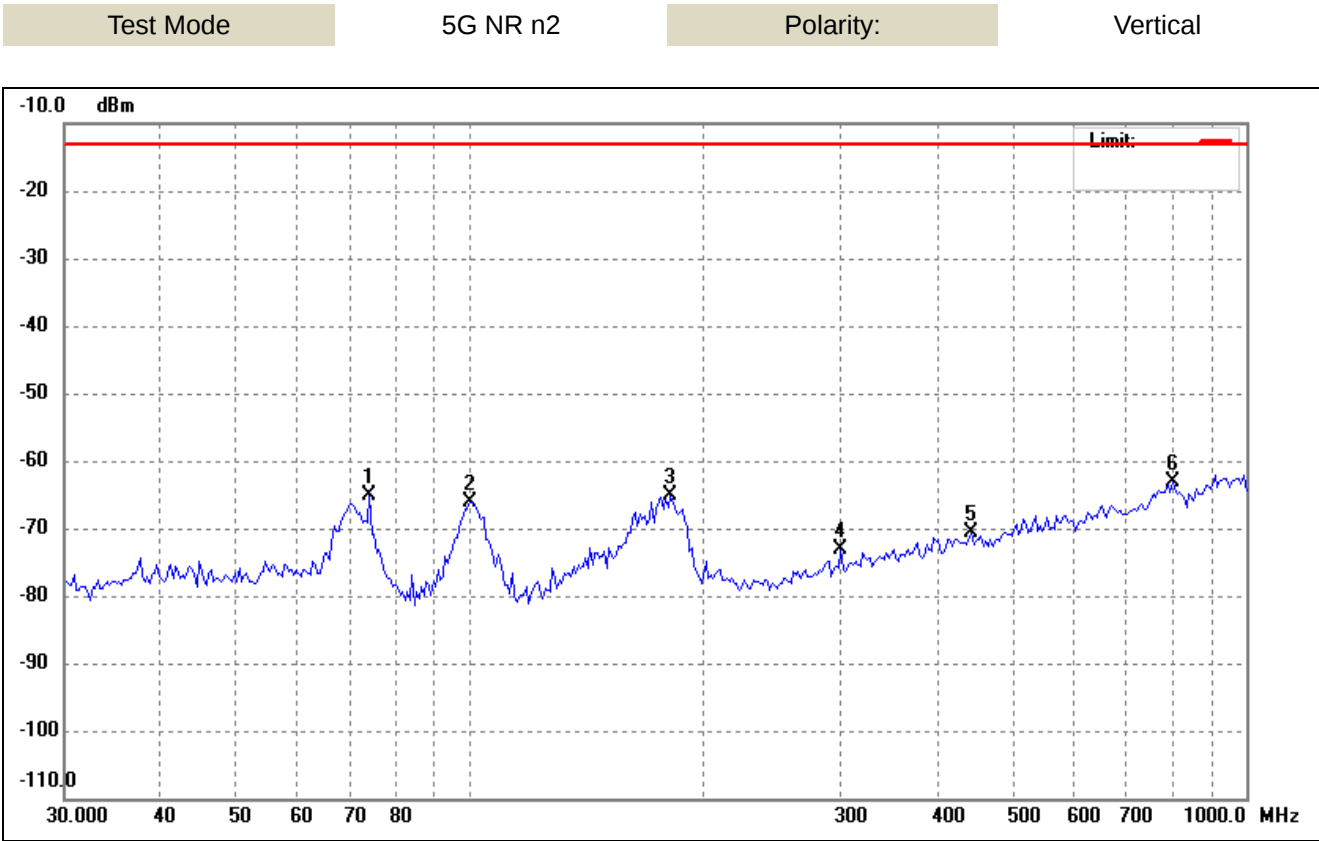
5G NR n2

Polarity:

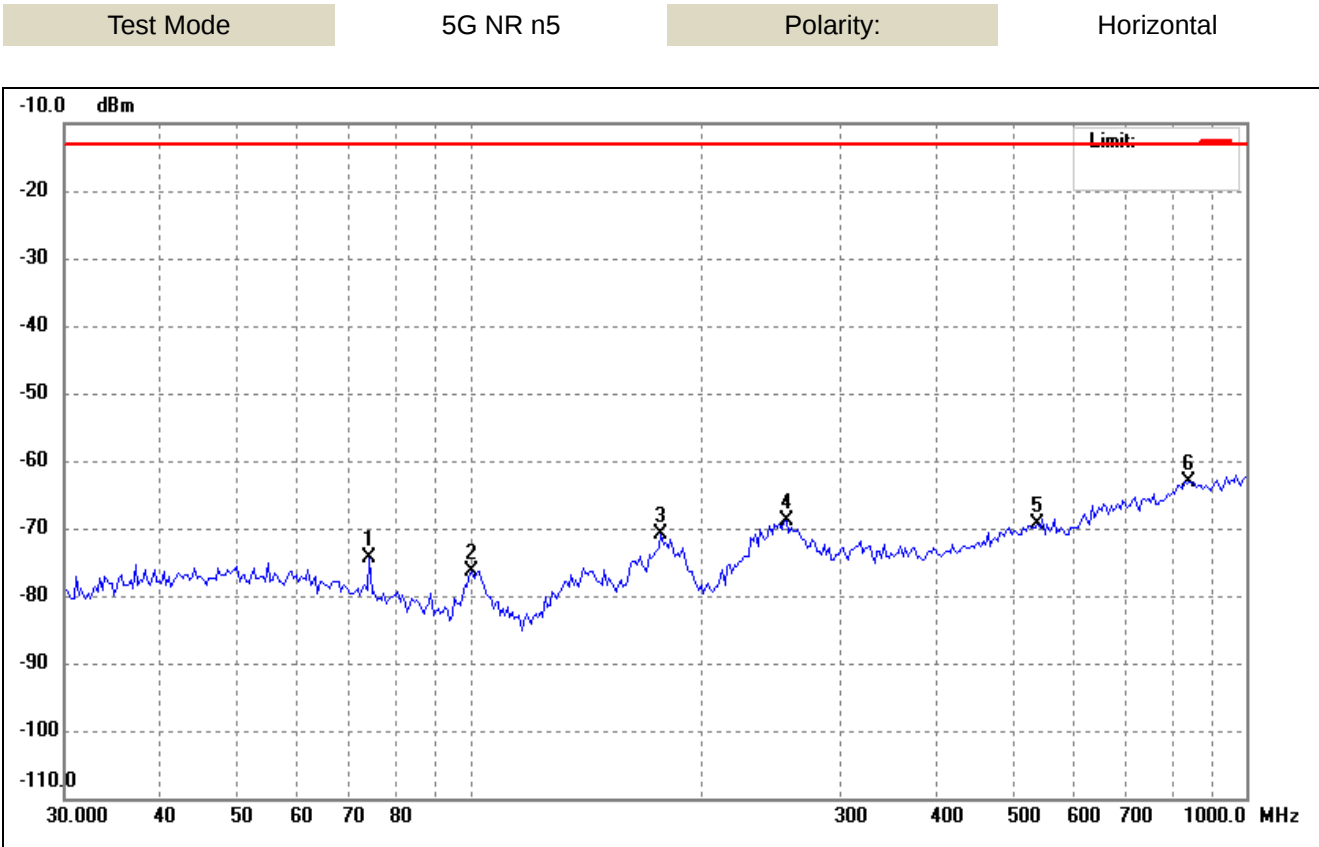
Horizontal



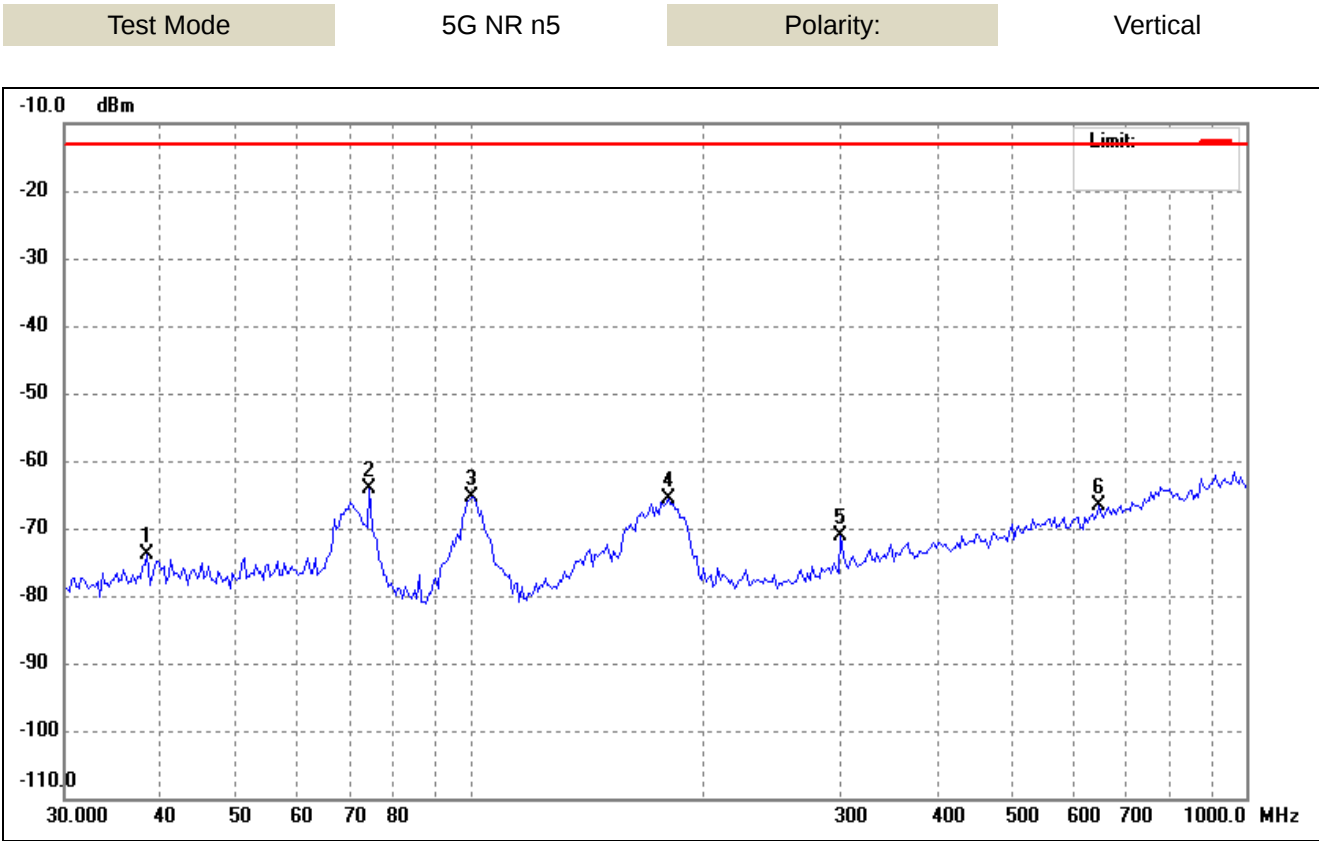
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	37.5648	-76.59	2.32	-74.27	-13.00	-61.27	ERP
2	74.2696	-73.10	0.32	-72.78	-13.00	-59.78	ERP
3	100.4712	-71.00	-4.41	-75.41	-13.00	-62.41	ERP
4	178.7697	-71.43	0.98	-70.45	-13.00	-57.45	ERP
5	250.4859	-75.42	8.51	-66.91	-13.00	-53.91	ERP
6	906.3041	-74.49	13.34	-61.15	-13.00	-48.15	ERP



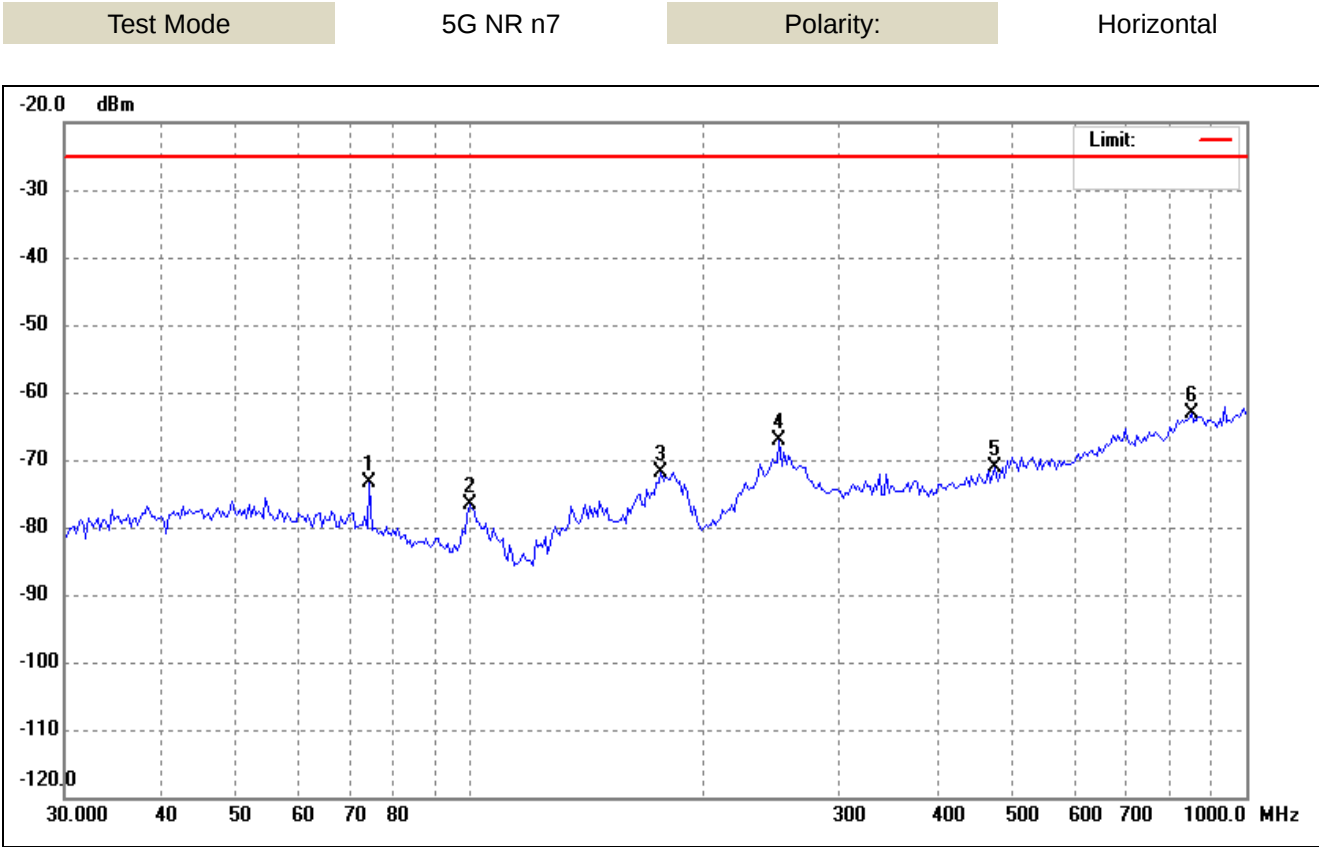
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	74.2696	-67.08	1.94	-65.14	-13.00	-52.14	ERP
2	99.7676	-64.31	-1.70	-66.01	-13.00	-53.01	ERP
3	181.3000	-69.30	4.21	-65.09	-13.00	-52.09	ERP
4	300.6988	-76.42	3.32	-73.10	-13.00	-60.10	ERP
5	442.5722	-76.66	6.14	-70.52	-13.00	-57.52	ERP
6	804.2523	-75.65	12.43	-63.22	-13.00	-50.22	ERP



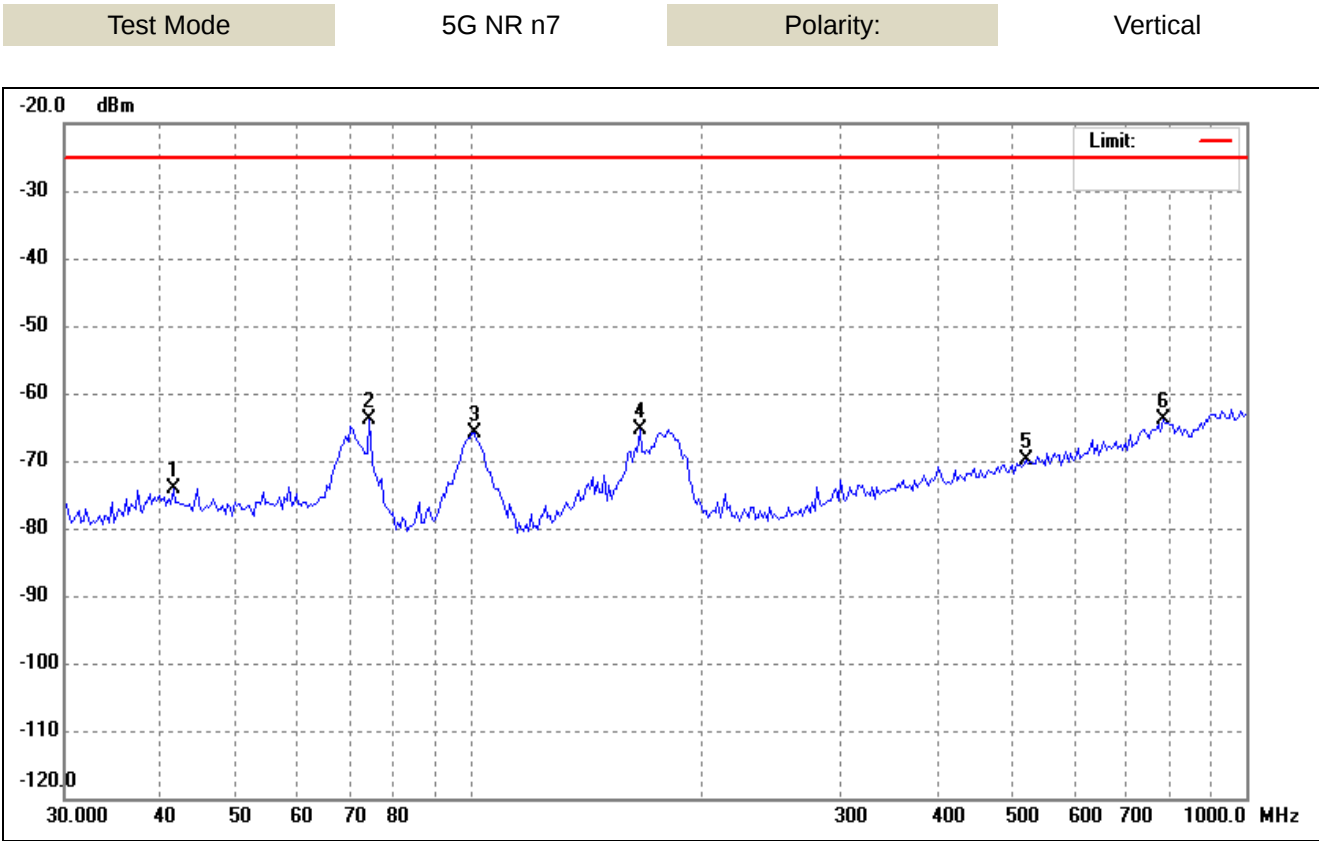
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	74.2696	-74.81	0.32	-74.49	-13.00	-61.49	ERP
2	100.4712	-71.84	-4.41	-76.25	-13.00	-63.25	ERP
3	176.2748	-71.73	0.98	-70.75	-13.00	-57.75	ERP
4	255.8226	-76.83	8.07	-68.76	-13.00	-55.76	ERP
5	538.8107	-76.96	7.64	-69.32	-13.00	-56.32	ERP
6	844.8028	-76.72	13.63	-63.09	-13.00	-50.09	ERP



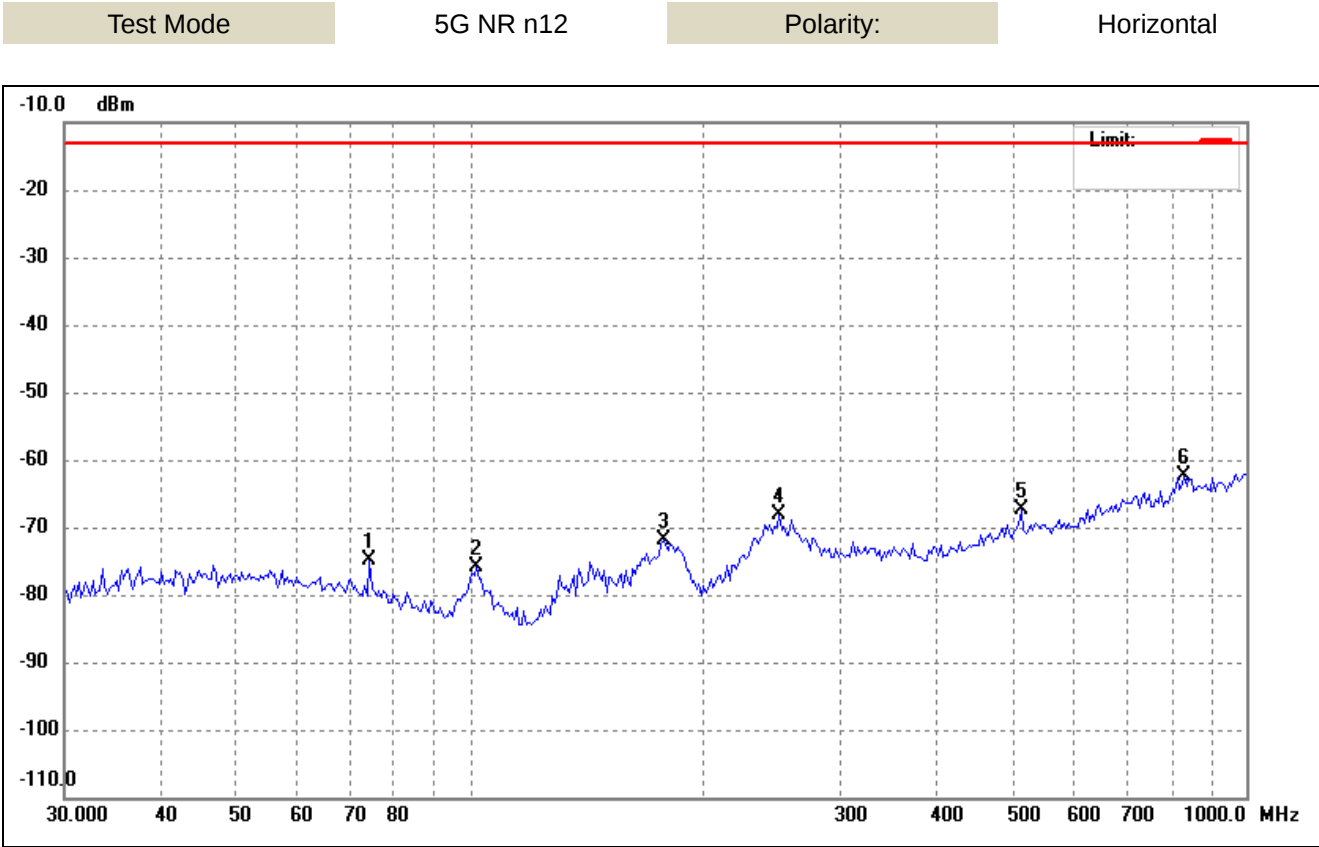
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	38.3651	-76.27	2.39	-73.88	-13.00	-60.88	ERP
2	74.2696	-65.99	1.94	-64.05	-13.00	-51.05	ERP
3	100.4712	-63.65	-1.66	-65.31	-13.00	-52.31	ERP
4	180.0304	-70.10	4.42	-65.68	-13.00	-52.68	ERP
5	300.6988	-74.56	3.32	-71.24	-13.00	-58.24	ERP
6	646.8217	-76.04	9.42	-66.62	-13.00	-53.62	ERP



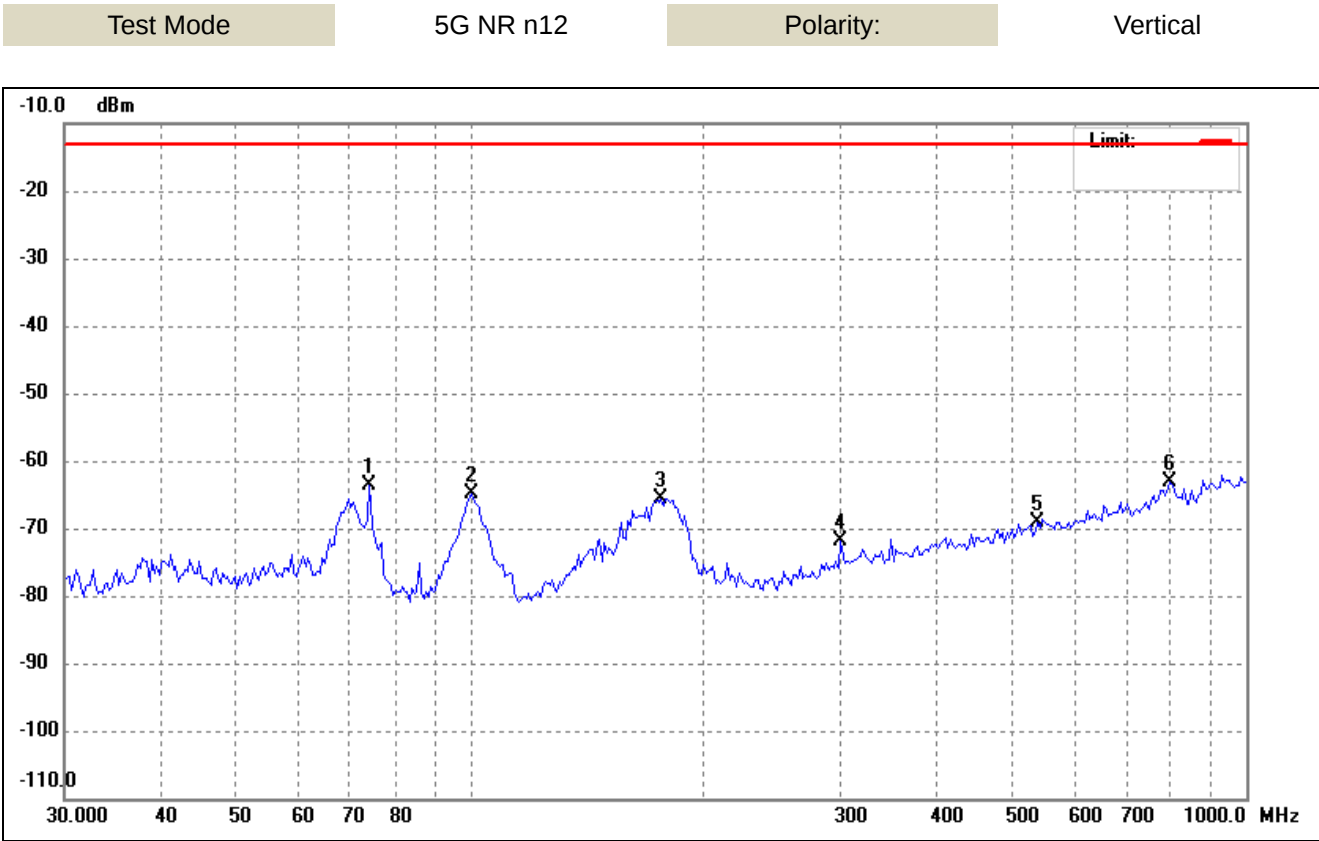
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	74.2696	-73.75	0.32	-73.43	-25.00	-48.43	ERP
2	99.7676	-72.30	-4.35	-76.65	-25.00	-51.65	ERP
3	176.2748	-72.95	0.98	-71.97	-25.00	-46.97	ERP
4	250.4859	-75.71	8.51	-67.20	-25.00	-42.20	ERP
5	474.7913	-77.70	6.62	-71.08	-25.00	-46.08	ERP
6	850.7603	-76.73	13.61	-63.12	-25.00	-38.12	ERP



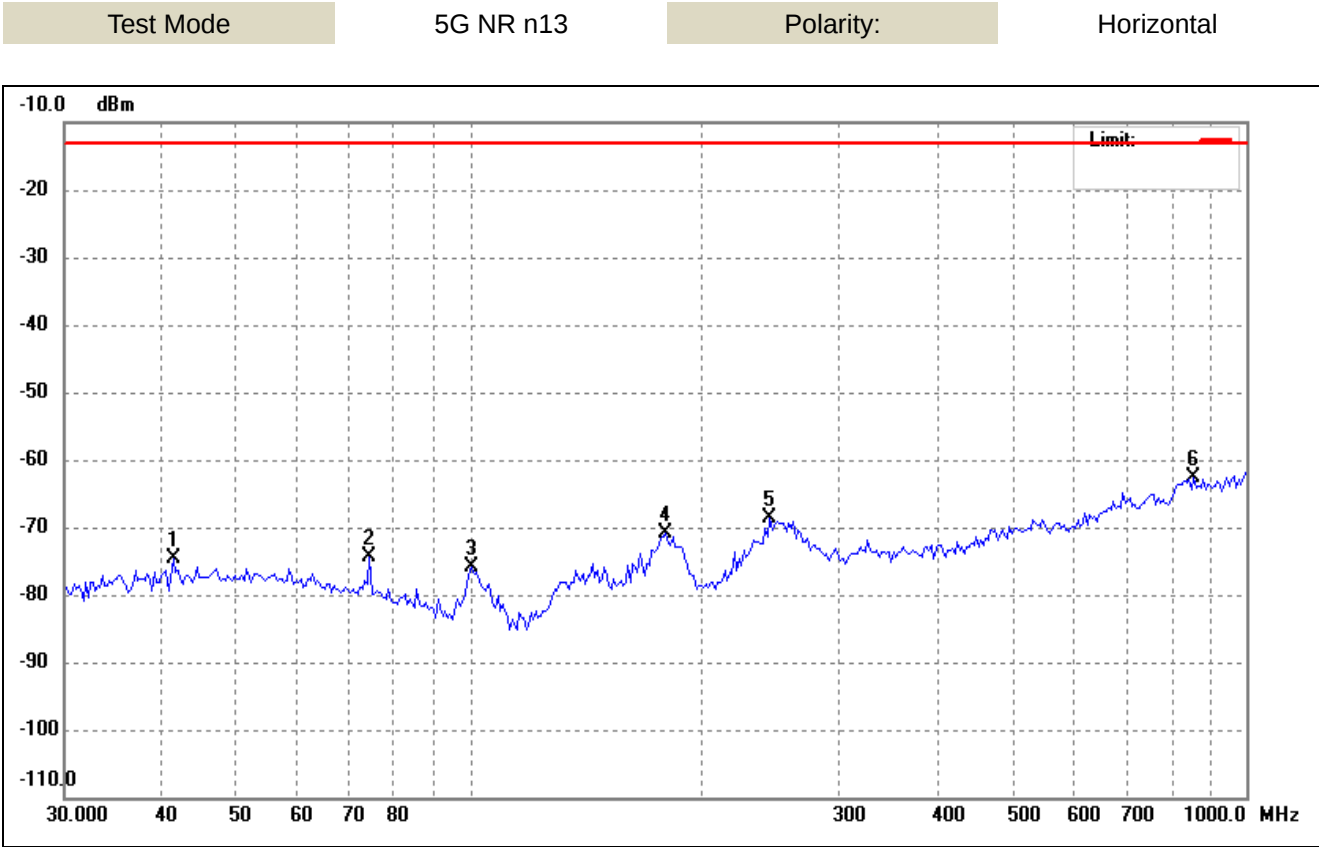
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	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	41.4483	-76.71	2.69	-74.02	-25.00	-49.02	ERP
2	74.2696	-65.74	1.94	-63.80	-25.00	-38.80	ERP
3	101.1797	-64.24	-1.61	-65.85	-25.00	-40.85	ERP
4	165.4716	-72.30	6.96	-65.34	-25.00	-40.34	ERP
5	520.2079	-77.43	7.51	-69.92	-25.00	-44.92	ERP
6	781.9606	-76.19	12.20	-63.99	-25.00	-38.99	ERP



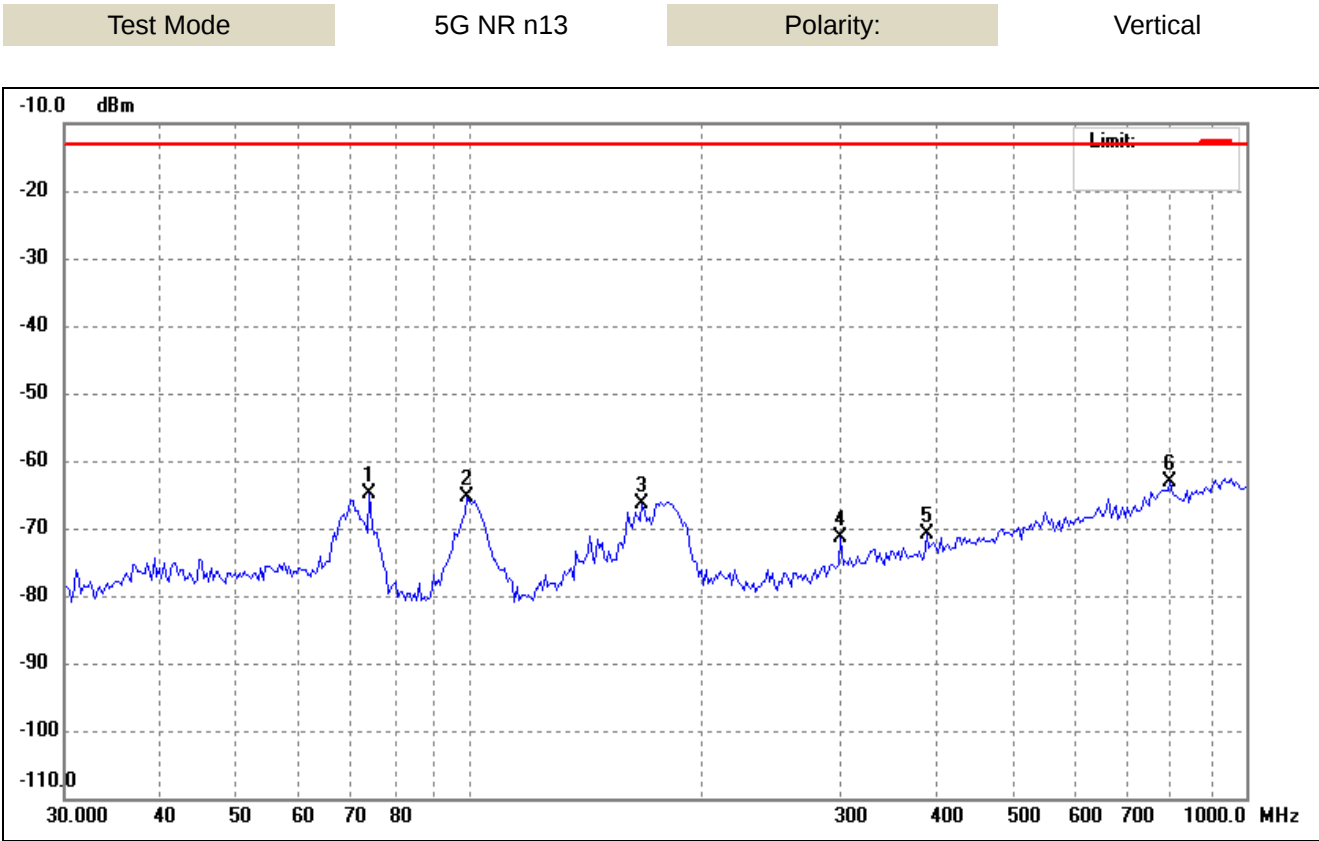
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	74.2696	-75.30	0.32	-74.98	-13.00	-61.98	ERP
2	101.8932	-71.55	-4.43	-75.98	-13.00	-62.98	ERP
3	177.5179	-72.74	0.98	-71.76	-13.00	-58.76	ERP
4	250.4859	-76.68	8.51	-68.17	-13.00	-55.17	ERP
5	512.9478	-74.73	7.41	-67.32	-13.00	-54.32	ERP
6	833.0127	-75.75	13.37	-62.38	-13.00	-49.38	ERP



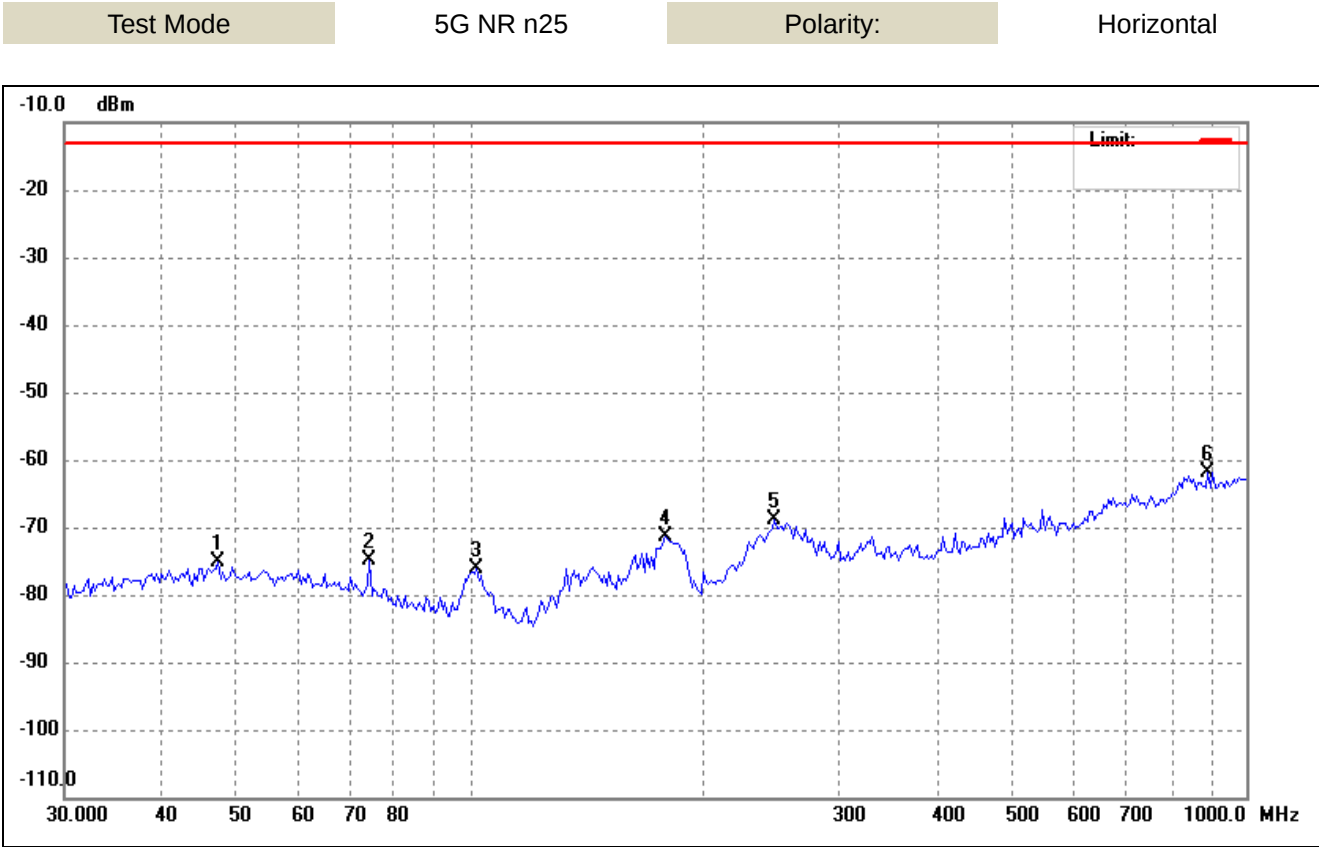
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	74.2696	-65.56	1.94	-63.62	-13.00	-50.62	ERP
2	100.4712	-63.33	-1.66	-64.99	-13.00	-51.99	ERP
3	176.2748	-70.68	5.07	-65.61	-13.00	-52.61	ERP
4	300.6988	-75.08	3.32	-71.76	-13.00	-58.76	ERP
5	538.8107	-77.01	7.81	-69.20	-13.00	-56.20	ERP
6	798.6205	-75.75	12.62	-63.13	-13.00	-50.13	ERP



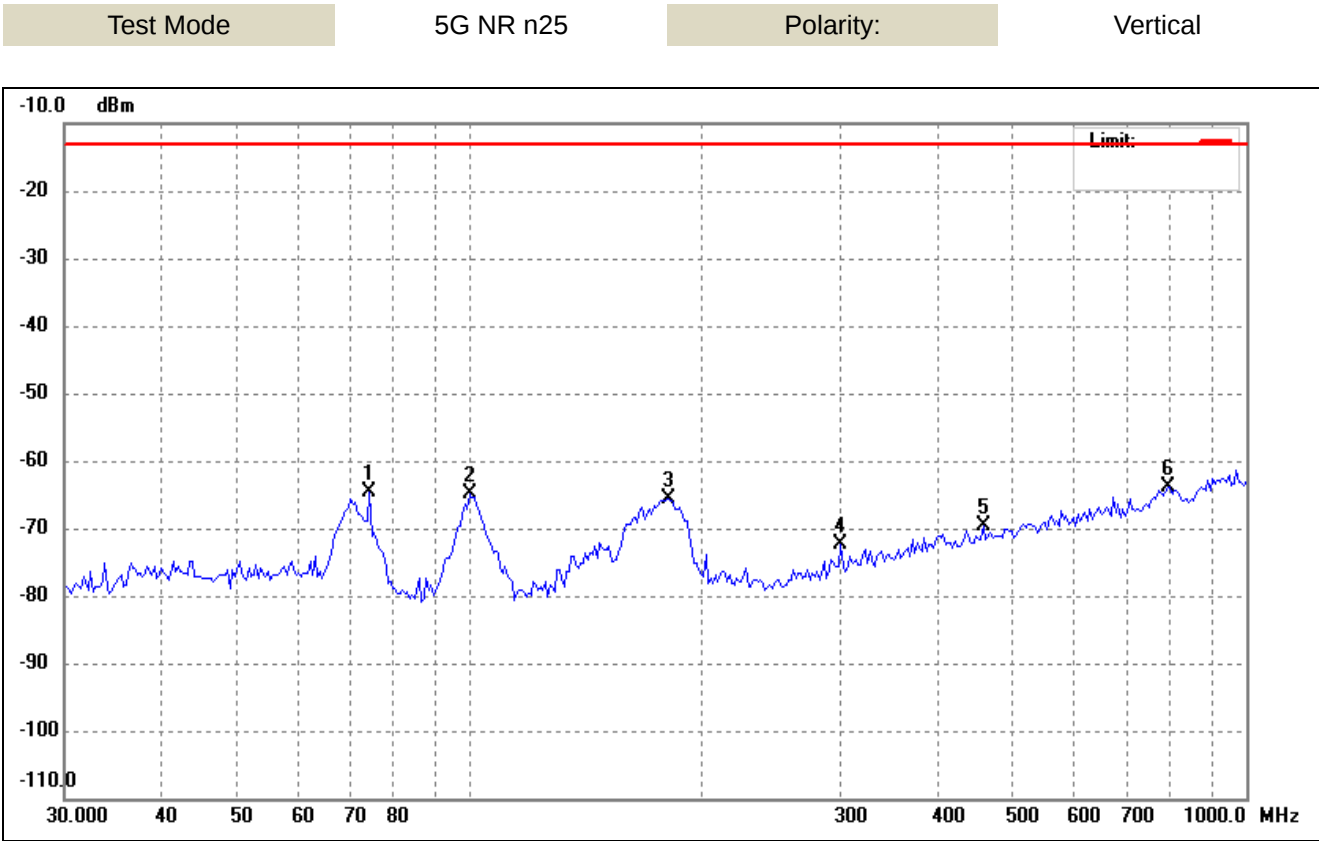
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	41.4483	-77.26	2.69	-74.57	-13.00	-61.57	ERP
2	74.2696	-74.70	0.32	-74.38	-13.00	-61.38	ERP
3	100.4712	-71.46	-4.41	-75.87	-13.00	-62.87	ERP
4	178.7697	-71.73	0.98	-70.75	-13.00	-57.75	ERP
5	243.5431	-76.10	7.44	-68.66	-13.00	-55.66	ERP
6	856.7597	-76.05	13.42	-62.63	-13.00	-49.63	ERP



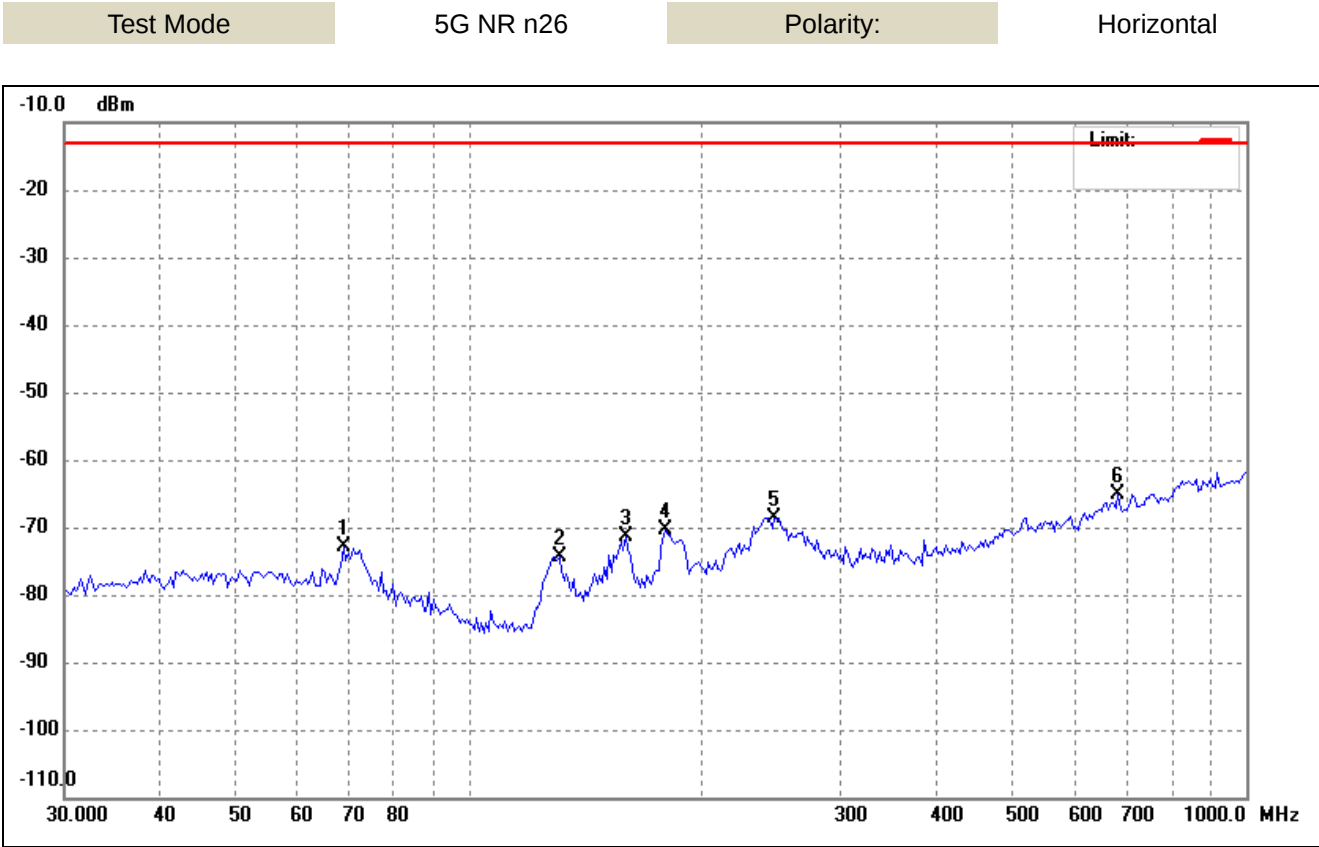
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	74.2696	-66.83	1.94	-64.89	-13.00	-51.89	ERP
2	99.0690	-63.74	-1.74	-65.48	-13.00	-52.48	ERP
3	166.6385	-73.19	6.76	-66.43	-13.00	-53.43	ERP
4	300.6988	-74.62	3.32	-71.30	-13.00	-58.30	ERP
5	387.2565	-76.06	5.11	-70.95	-13.00	-57.95	ERP
6	798.6205	-75.69	12.62	-63.07	-13.00	-50.07	ERP



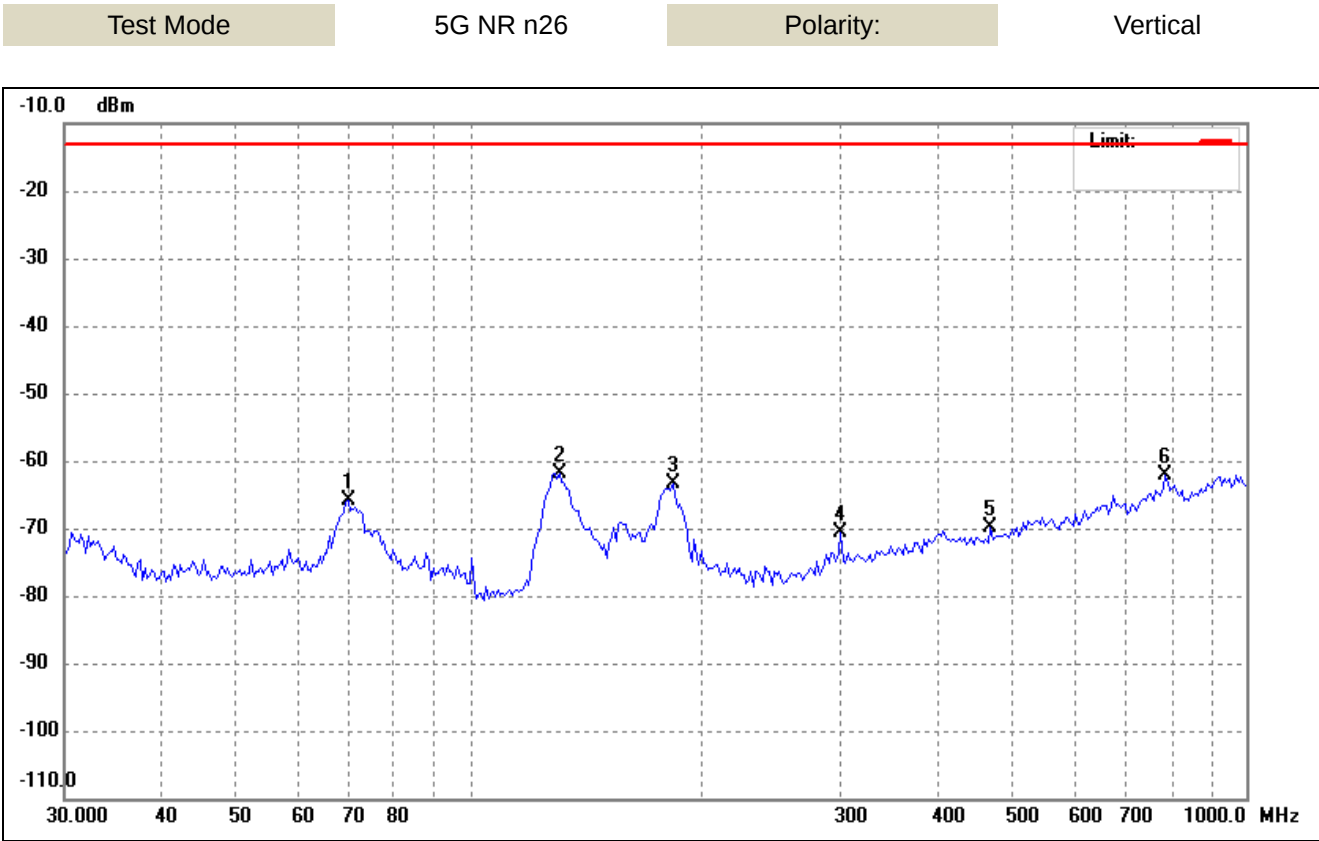
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	47.3688	-78.29	3.25	-75.04	-13.00	-62.04	ERP
2	74.2696	-75.20	0.32	-74.88	-13.00	-61.88	ERP
3	101.8932	-71.81	-4.43	-76.24	-13.00	-63.24	ERP
4	178.7697	-72.46	0.98	-71.48	-13.00	-58.48	ERP
5	246.9901	-76.83	8.03	-68.80	-13.00	-55.80	ERP
6	893.6557	-75.15	13.24	-61.91	-13.00	-48.91	ERP



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	74.2696	-66.57	1.94	-64.63	-13.00	-51.63	ERP
2	99.7676	-63.28	-1.70	-64.98	-13.00	-51.98	ERP
3	180.0304	-70.11	4.42	-65.69	-13.00	-52.69	ERP
4	300.6988	-75.61	3.32	-72.29	-13.00	-59.29	ERP
5	458.3987	-76.16	6.42	-69.74	-13.00	-56.74	ERP
6	793.0281	-76.29	12.48	-63.81	-13.00	-50.81	ERP



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	68.7450	-74.17	1.22	-72.95	-13.00	-59.95	ERP
2	130.3048	-71.86	-2.45	-74.31	-13.00	-61.31	ERP
3	158.6399	-72.32	0.97	-71.35	-13.00	-58.35	ERP
4	178.7697	-71.44	0.98	-70.46	-13.00	-57.46	ERP
5	246.9901	-76.55	8.03	-68.52	-13.00	-55.52	ERP
6	684.2259	-75.65	10.55	-65.10	-13.00	-52.10	ERP



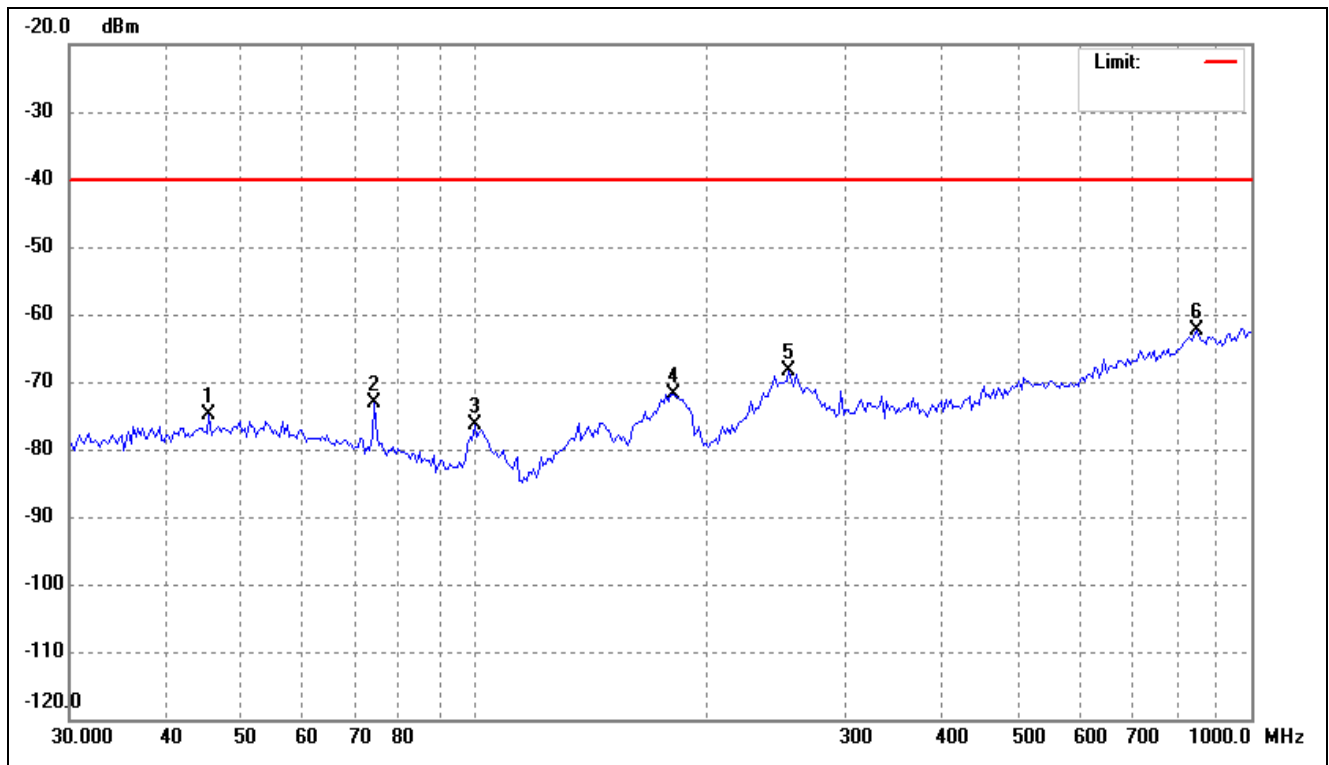
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	69.7179	-68.94	3.10	-65.84	-13.00	-52.84	ERP
2	130.3048	-63.48	1.67	-61.81	-13.00	-48.81	ERP
3	182.5785	-67.46	4.01	-63.45	-13.00	-50.45	ERP
4	300.6988	-73.97	3.32	-70.65	-13.00	-57.65	ERP
5	468.1651	-76.59	6.60	-69.99	-13.00	-56.99	ERP
6	787.4749	-74.57	12.34	-62.23	-13.00	-49.23	ERP

Test Mode

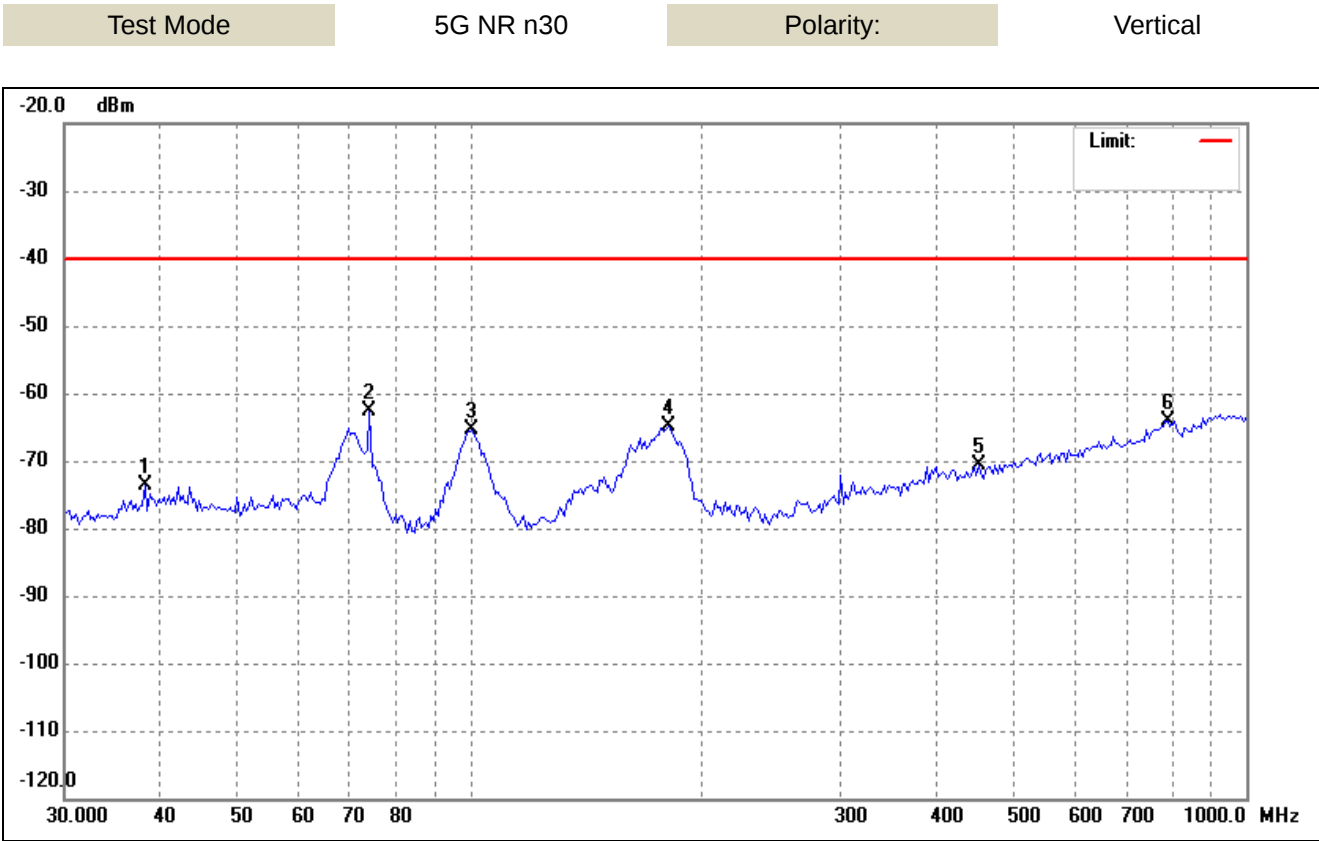
5G NR n30

Polarity:

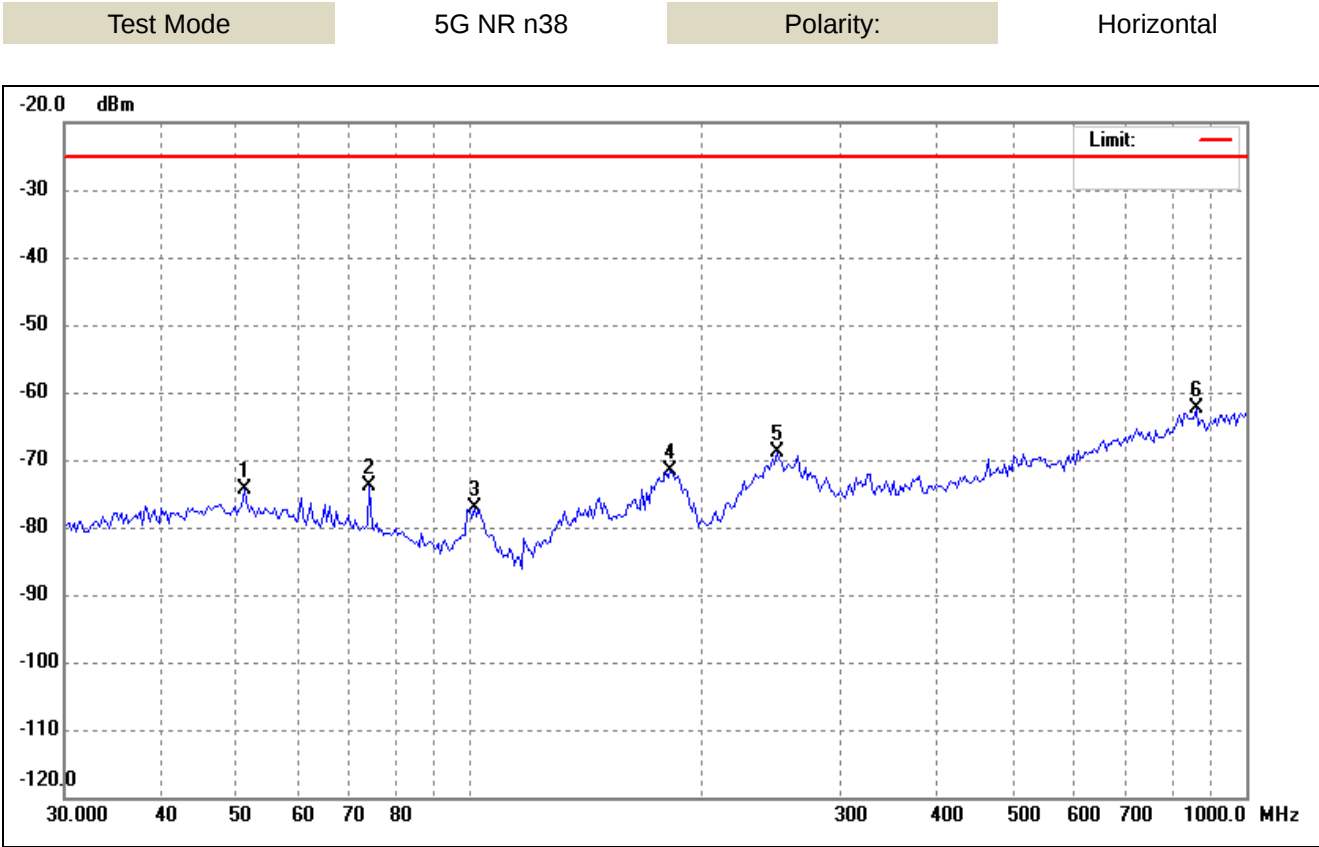
Horizontal



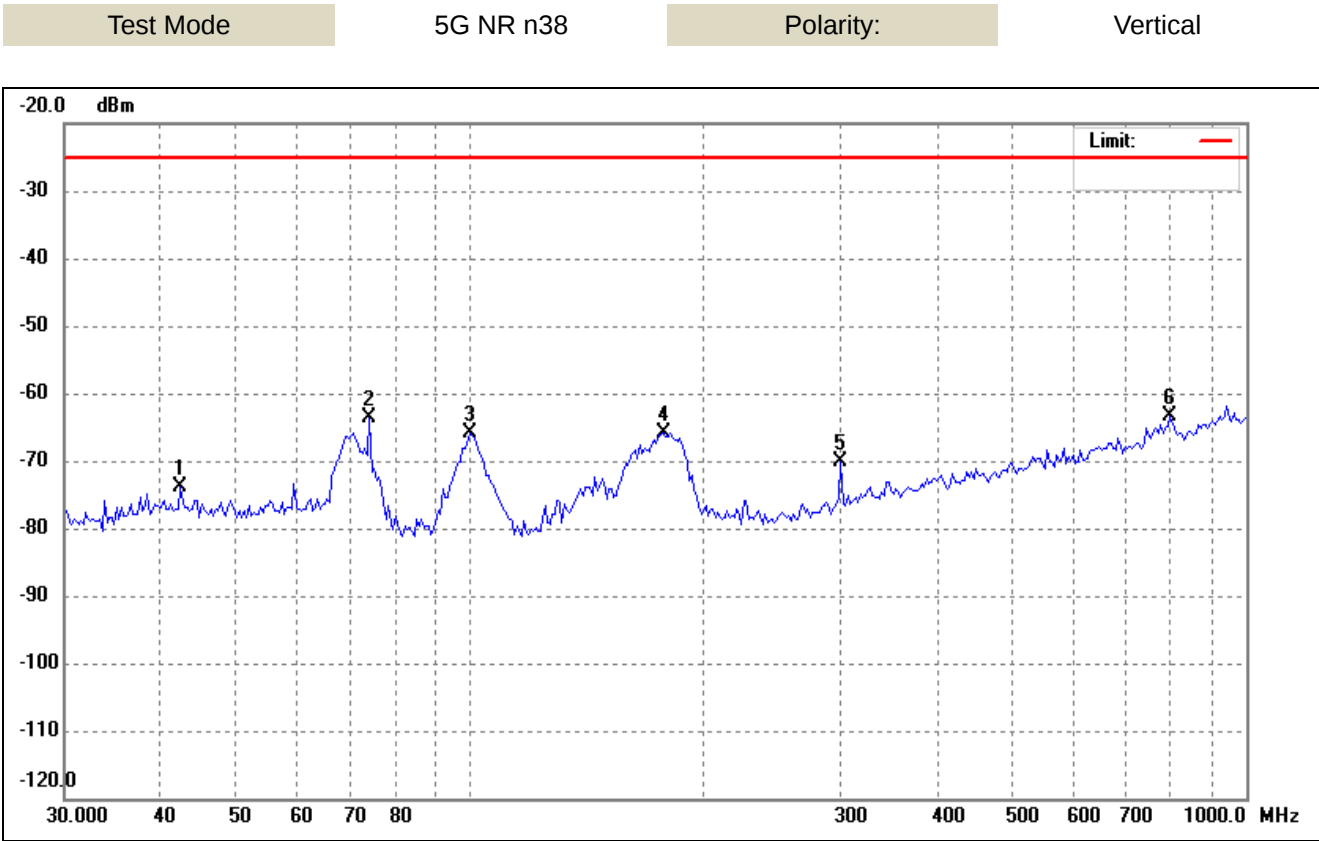
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	45.4131	-77.85	3.06	-74.79	-40.00	-34.79	ERP
2	74.2696	-73.49	0.32	-73.17	-40.00	-33.17	ERP
3	99.7676	-71.96	-4.35	-76.31	-40.00	-36.31	ERP
4	180.0304	-72.75	0.98	-71.77	-40.00	-31.77	ERP
5	254.0312	-76.67	8.21	-68.46	-40.00	-28.46	ERP
6	850.7603	-76.03	13.61	-62.42	-40.00	-22.42	ERP



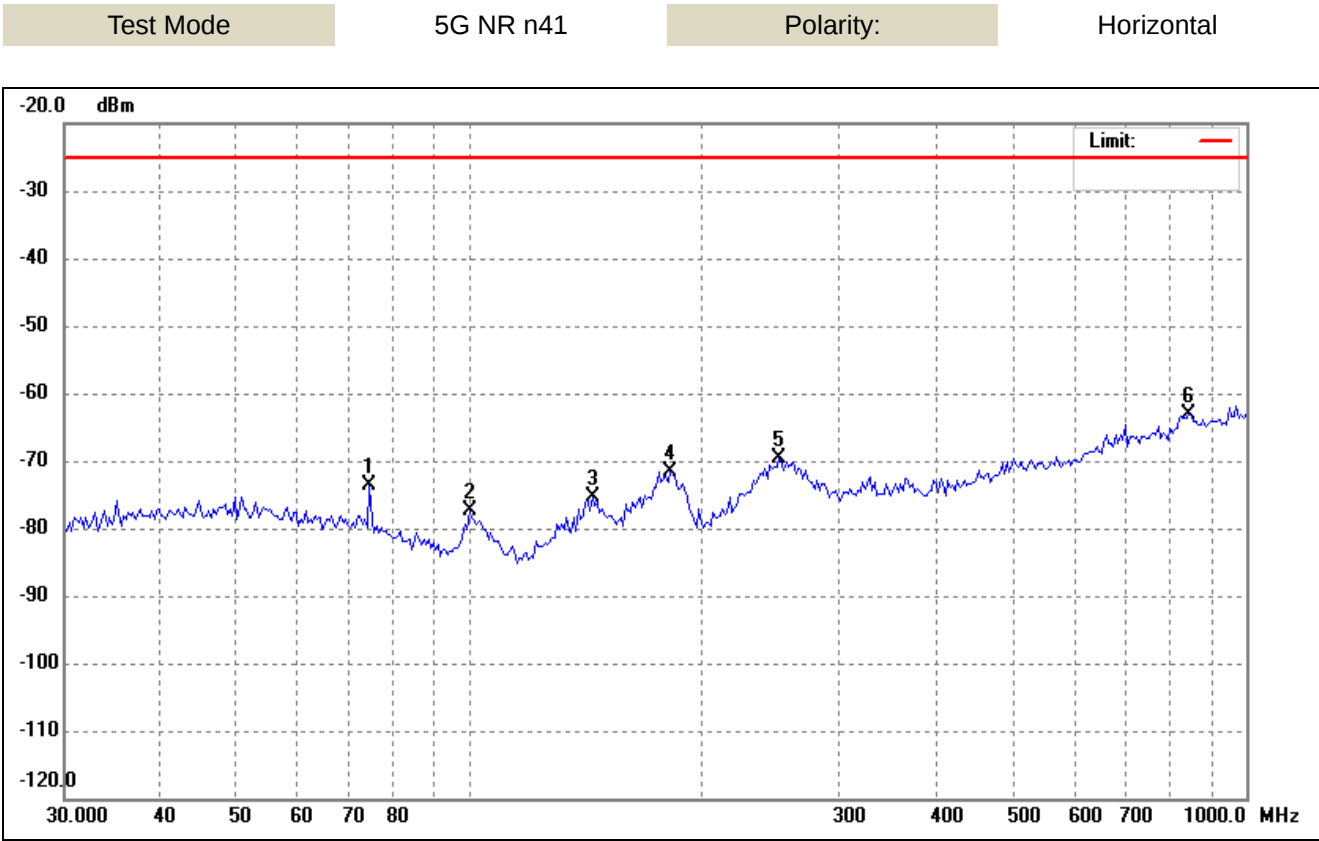
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	38.0964	-76.11	2.37	-73.74	-40.00	-33.74	ERP
2	74.2696	-64.62	1.94	-62.68	-40.00	-22.68	ERP
3	100.4711	-63.64	-1.66	-65.30	-40.00	-25.30	ERP
4	180.0304	-69.29	4.42	-64.87	-40.00	-24.87	ERP
5	452.0012	-76.86	6.31	-70.55	-40.00	-30.55	ERP
6	793.0281	-76.55	12.48	-64.07	-40.00	-24.07	ERP



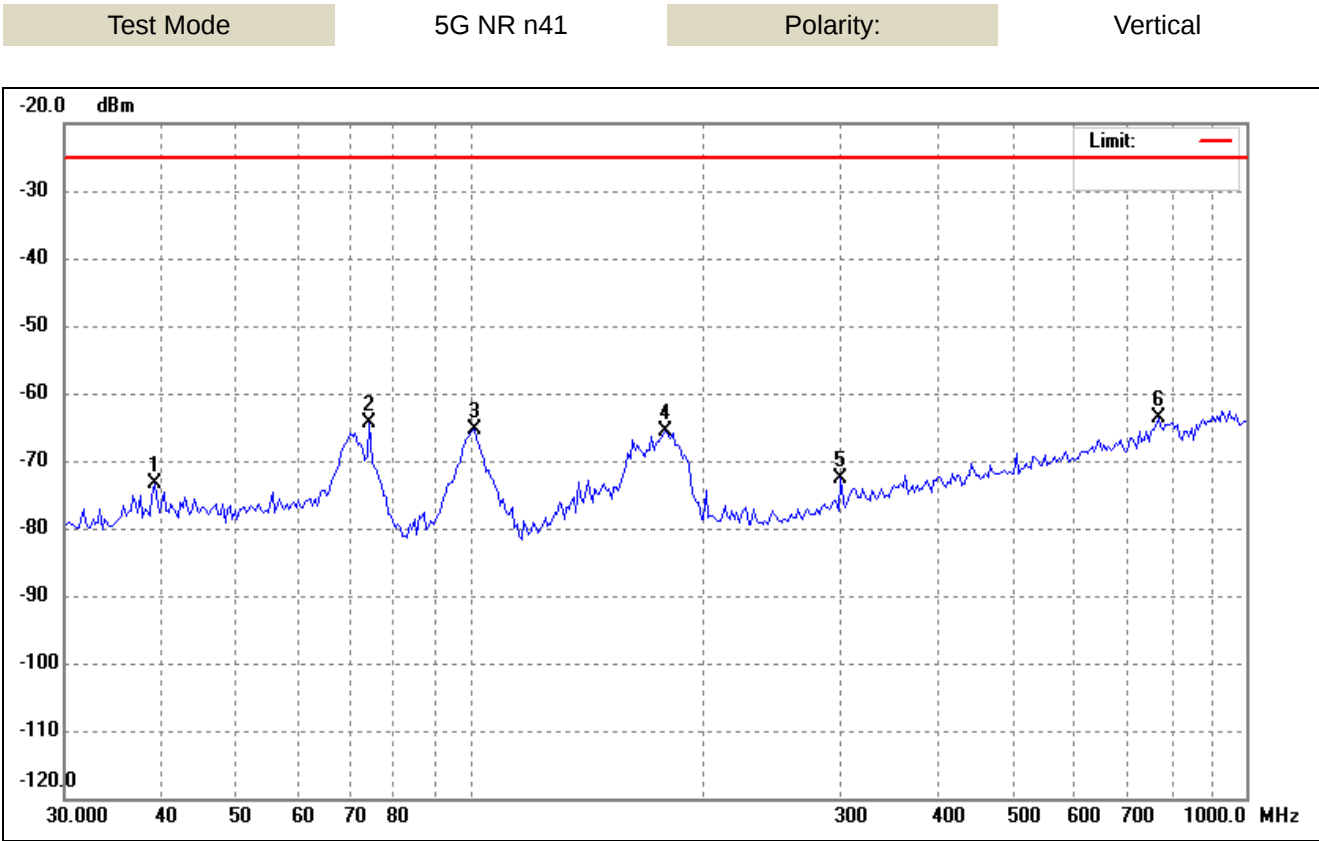
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	51.1756	-77.76	3.36	-74.40	-25.00	-49.40	ERP
2	74.2696	-74.23	0.32	-73.91	-25.00	-48.91	ERP
3	101.1797	-72.79	-4.42	-77.21	-25.00	-52.21	ERP
4	181.3000	-72.44	0.91	-71.53	-25.00	-46.53	ERP
5	248.7319	-77.29	8.33	-68.96	-25.00	-43.96	ERP
6	862.8015	-75.56	13.23	-62.33	-25.00	-37.33	ERP



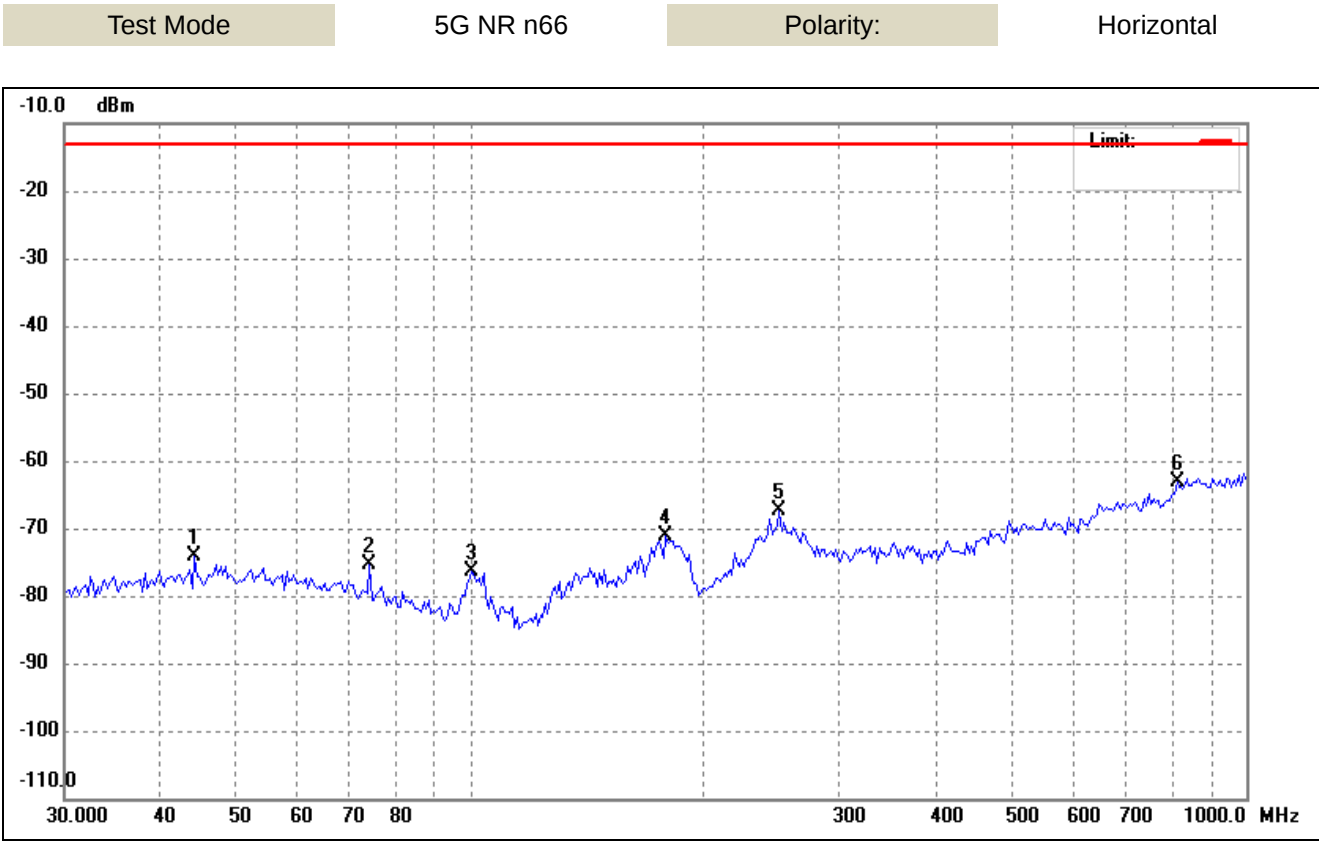
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	42.3314	-76.58	2.77	-73.81	-25.00	-48.81	ERP
2	74.2696	-65.66	1.94	-63.72	-25.00	-38.72	ERP
3	99.7676	-64.15	-1.70	-65.85	-25.00	-40.85	ERP
4	177.5179	-70.67	4.85	-65.82	-25.00	-40.82	ERP
5	300.6988	-73.52	3.32	-70.20	-25.00	-45.20	ERP
6	798.6205	-76.00	12.62	-63.38	-25.00	-38.38	ERP



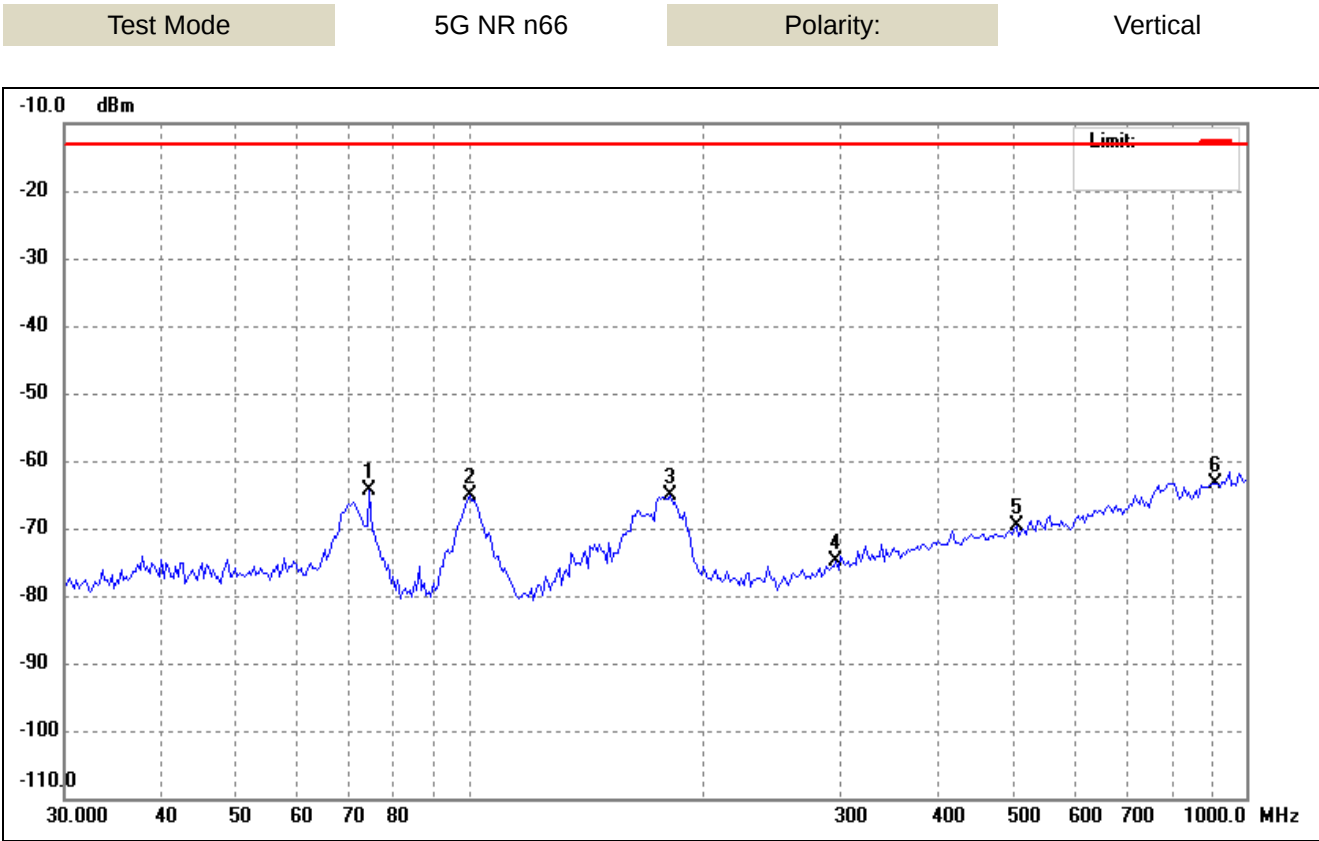
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	74.2696	-74.06	0.32	-73.74	-25.00	-48.74	ERP
2	99.7676	-73.04	-4.35	-77.39	-25.00	-52.39	ERP
3	143.7760	-75.41	0.13	-75.28	-25.00	-50.28	ERP
4	181.3000	-72.61	0.91	-71.70	-25.00	-46.70	ERP
5	250.4859	-78.06	8.51	-69.55	-25.00	-44.55	ERP
6	844.8028	-76.78	13.63	-63.15	-25.00	-38.15	ERP



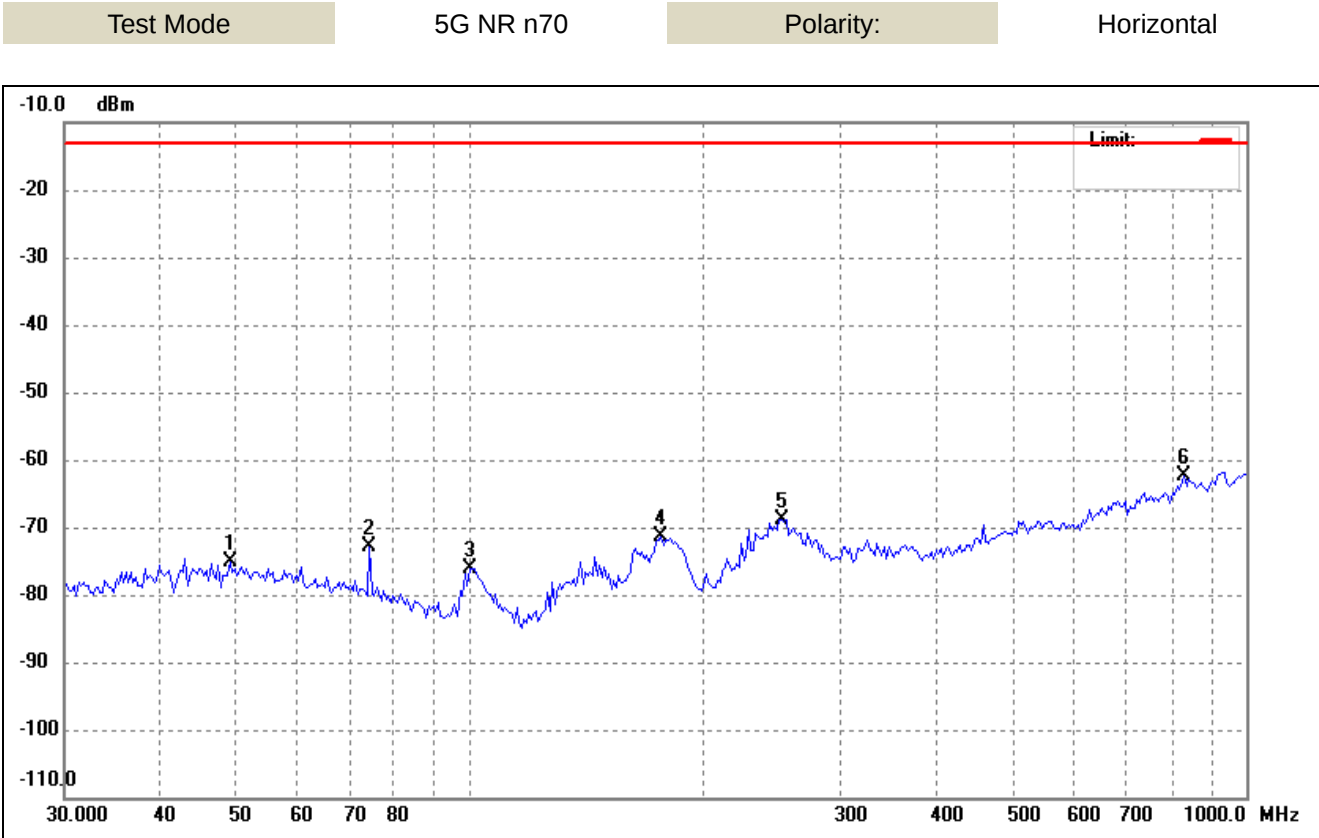
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	39.1825	-75.78	2.47	-73.31	-25.00	-48.31	ERP
2	74.2696	-66.26	1.94	-64.32	-25.00	-39.32	ERP
3	101.1797	-63.76	-1.61	-65.37	-25.00	-40.37	ERP
4	178.7697	-70.33	4.64	-65.69	-25.00	-40.69	ERP
5	300.6988	-76.06	3.32	-72.74	-25.00	-47.74	ERP
6	771.0475	-75.44	11.92	-63.52	-25.00	-38.52	ERP



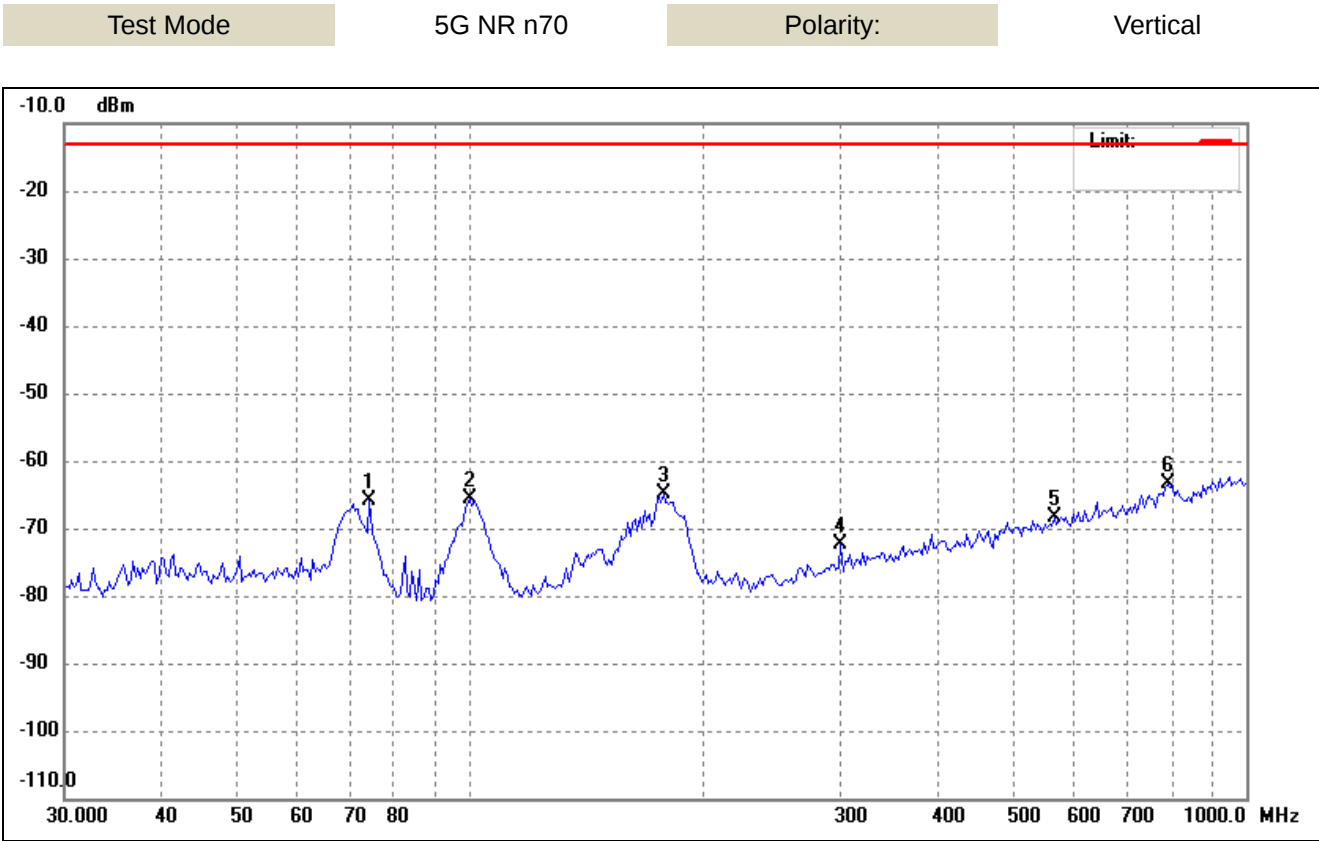
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	44.1544	-77.09	2.94	-74.15	-13.00	-61.15	ERP
2	74.2696	-75.63	0.32	-75.31	-13.00	-62.31	ERP
3	100.4712	-71.86	-4.41	-76.27	-13.00	-63.27	ERP
4	178.7697	-72.03	0.98	-71.05	-13.00	-58.05	ERP
5	250.4859	-75.98	8.51	-67.47	-13.00	-54.47	ERP
6	815.6353	-75.64	12.54	-63.10	-13.00	-50.10	ERP



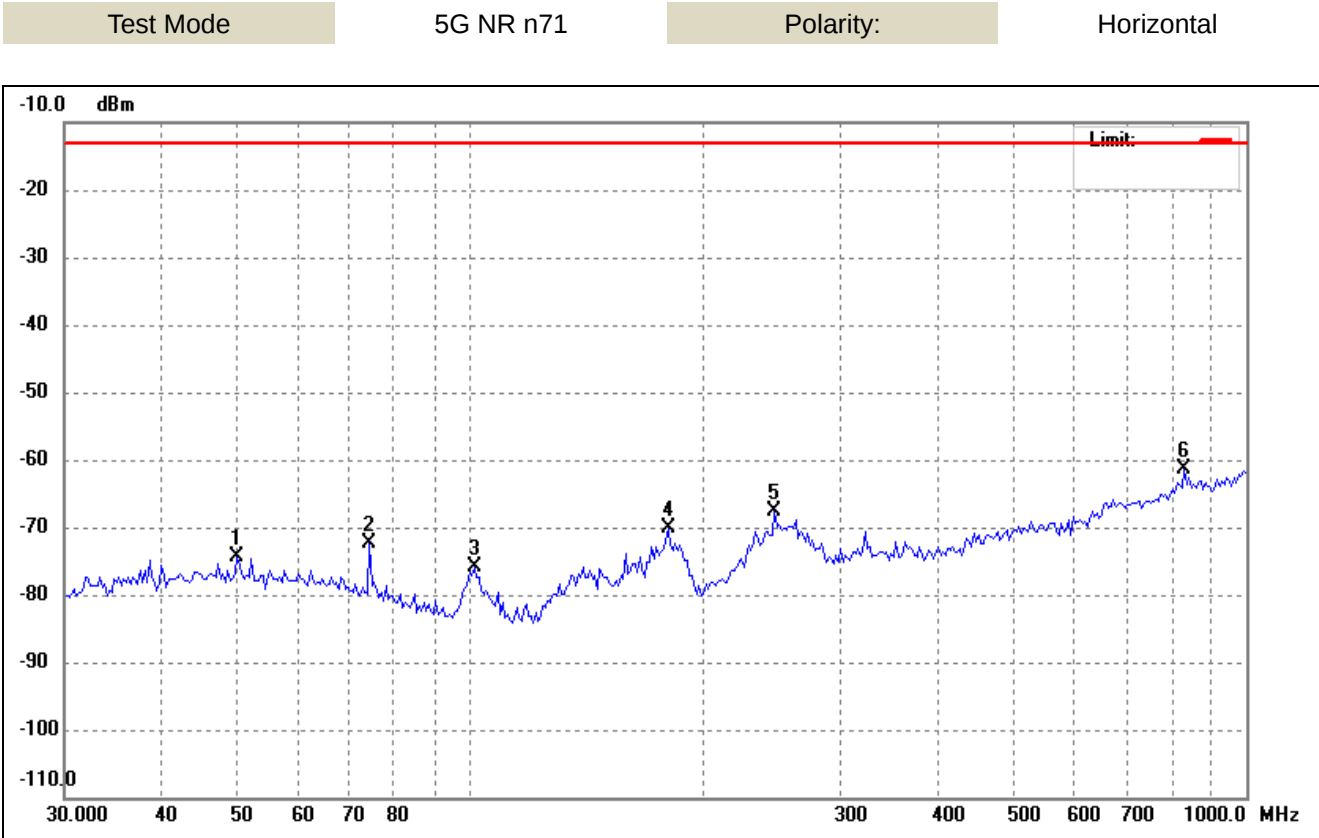
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	74.2696	-66.30	1.94	-64.36	-13.00	-51.36	ERP
2	99.7676	-63.37	-1.70	-65.07	-13.00	-52.07	ERP
3	181.3000	-69.23	4.21	-65.02	-13.00	-52.02	ERP
4	296.5023	-78.05	3.14	-74.91	-13.00	-61.91	ERP
5	505.7891	-76.99	7.27	-69.72	-13.00	-56.72	ERP
6	912.6953	-75.59	12.34	-63.25	-13.00	-50.25	ERP



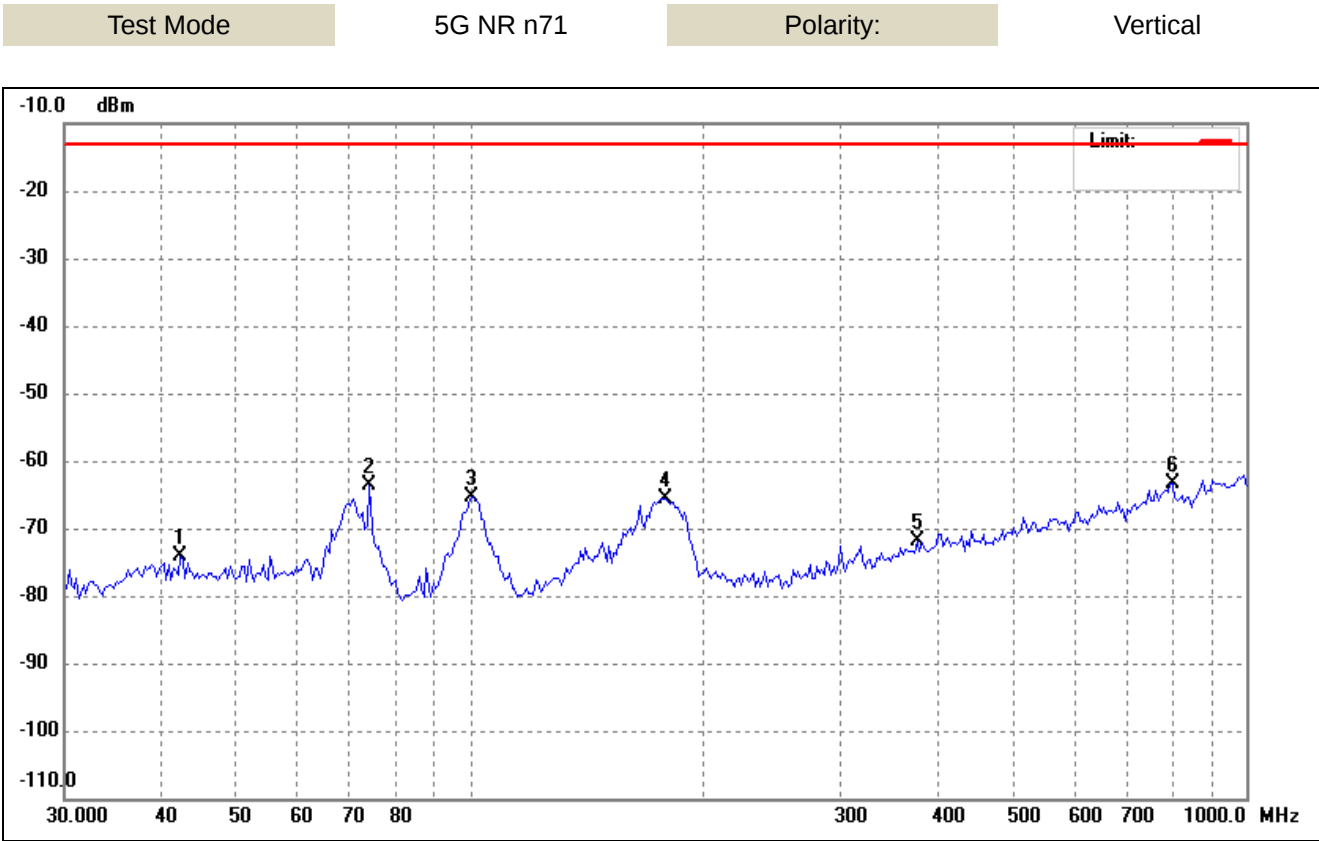
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	49.0627	-78.45	3.41	-75.04	-13.00	-62.04	ERP
2	74.2696	-73.31	0.32	-72.99	-13.00	-59.99	ERP
3	99.7676	-71.73	-4.35	-76.08	-13.00	-63.08	ERP
4	176.2748	-72.37	0.98	-71.39	-13.00	-58.39	ERP
5	252.2523	-77.15	8.36	-68.79	-13.00	-55.79	ERP
6	833.0127	-75.66	13.37	-62.29	-13.00	-49.29	ERP



No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	74.2696	-67.72	1.94	-65.78	-13.00	-52.78	ERP
2	99.7676	-63.92	-1.70	-65.62	-13.00	-52.62	ERP
3	177.5179	-69.71	4.85	-64.86	-13.00	-51.86	ERP
4	300.6988	-75.76	3.32	-72.44	-13.00	-59.44	ERP
5	565.9776	-76.52	8.27	-68.25	-13.00	-55.25	ERP
6	793.0281	-75.93	12.48	-63.45	-13.00	-50.45	ERP

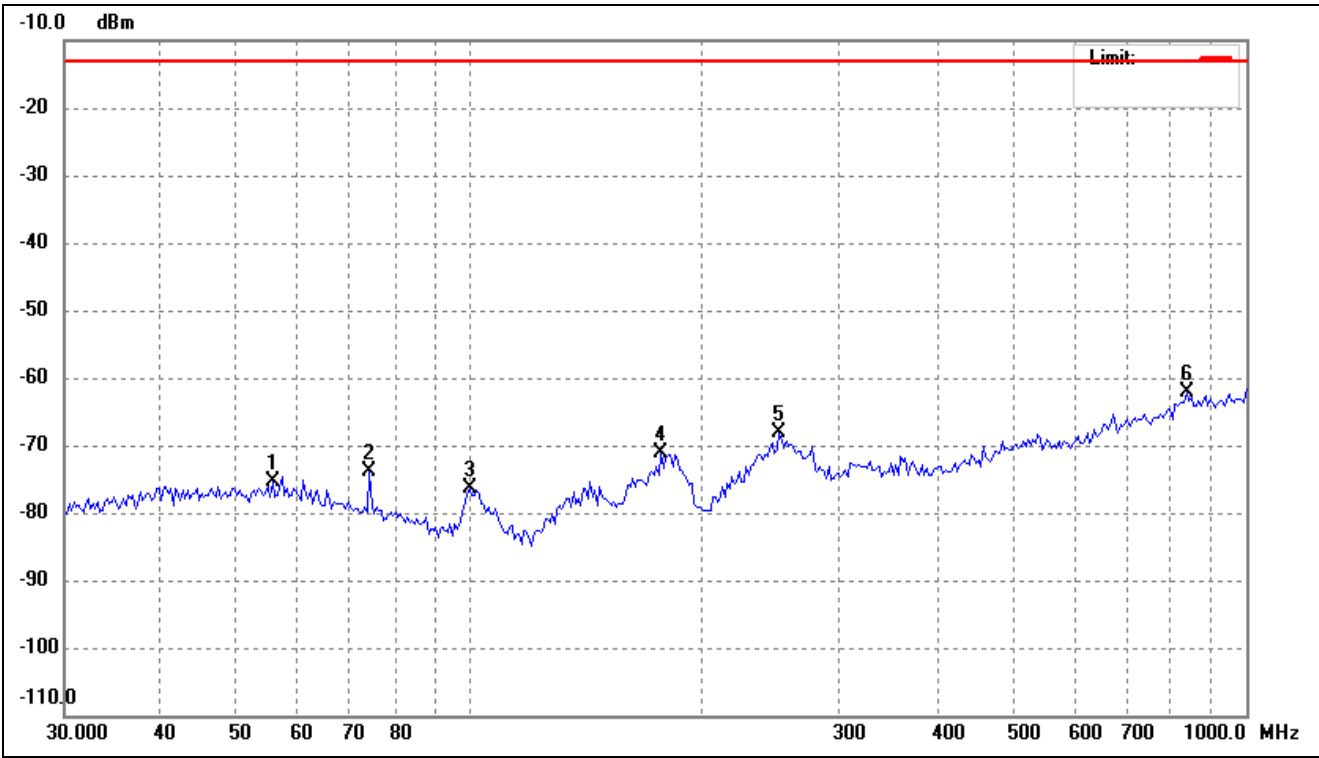


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	50.1080	-77.78	3.49	-74.29	-13.00	-61.29	ERP
2	74.2696	-72.57	0.32	-72.25	-13.00	-59.25	ERP
3	101.1797	-71.52	-4.42	-75.94	-13.00	-62.94	ERP
4	180.0304	-71.13	0.98	-70.15	-13.00	-57.15	ERP
5	246.9901	-75.65	8.03	-67.62	-13.00	-54.62	ERP
6	833.0127	-74.71	13.37	-61.34	-13.00	-48.34	ERP



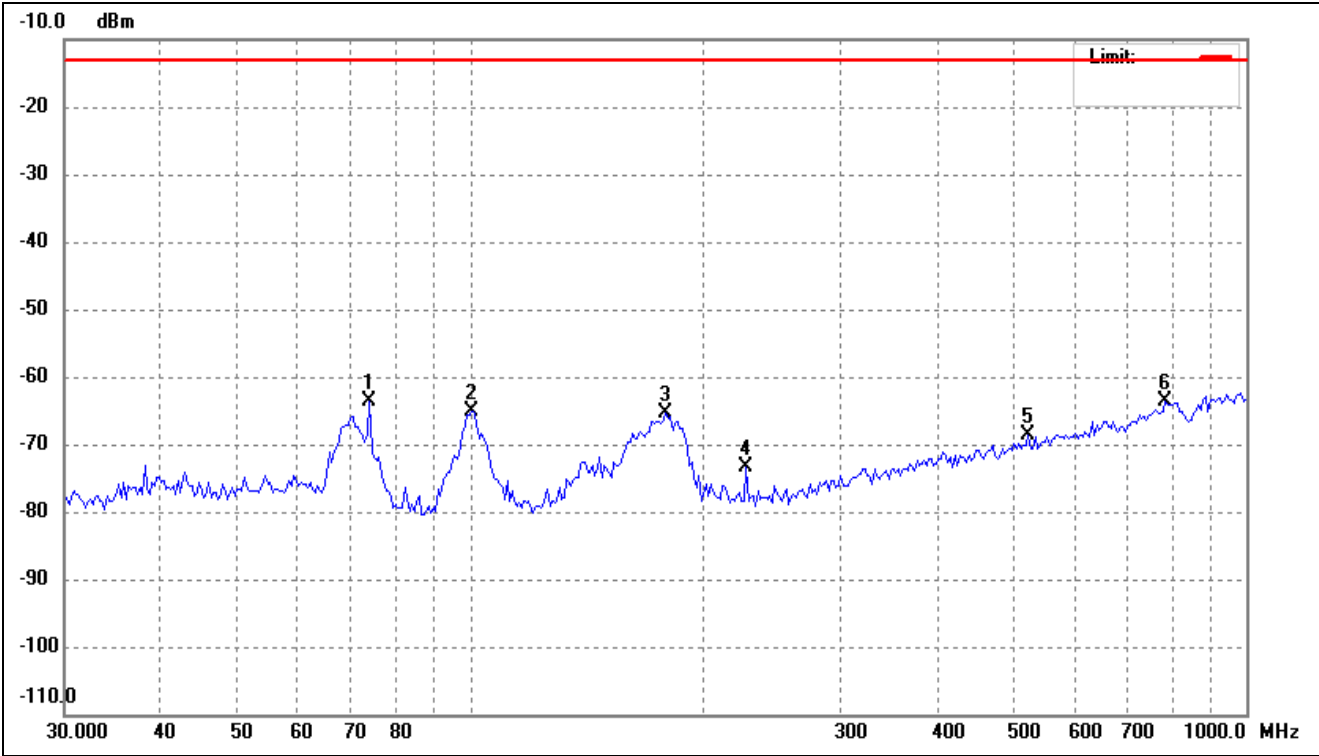
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	42.3314	-76.92	2.77	-74.15	-13.00	-61.15	ERP
2	74.2696	-65.57	1.94	-63.63	-13.00	-50.63	ERP
3	100.4712	-63.82	-1.66	-65.48	-13.00	-52.48	ERP
4	178.7697	-70.16	4.64	-65.52	-13.00	-52.52	ERP
5	376.5228	-76.64	4.89	-71.75	-13.00	-58.75	ERP
6	804.2523	-75.72	12.43	-63.29	-13.00	-50.29	ERP

Test Mode	5G NR n77(3450-3550MHz)	Polarity:	Horizontal
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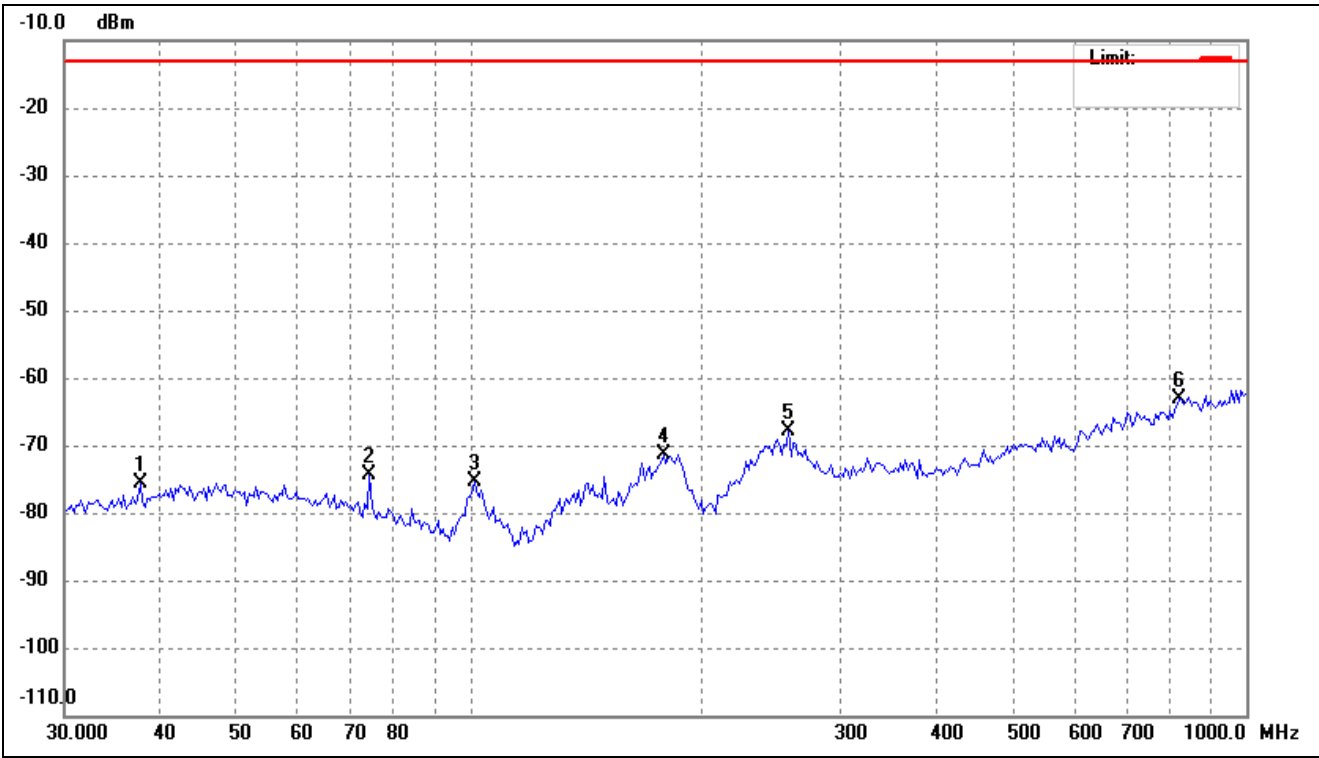
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	55.6782	-78.21	2.81	-75.40	-13.00	-62.40	ERP
2	74.2696	-74.24	0.32	-73.92	-13.00	-60.92	ERP
3	99.7676	-72.02	-4.35	-76.37	-13.00	-63.37	ERP
4	176.2748	-72.14	0.98	-71.16	-13.00	-58.16	ERP
5	250.4859	-76.71	8.51	-68.20	-13.00	-55.20	ERP
6	838.8870	-75.73	13.50	-62.23	-13.00	-49.23	ERP

Test Mode	5G NR n77(3450-3550MHz)	Polarity:	Vertical
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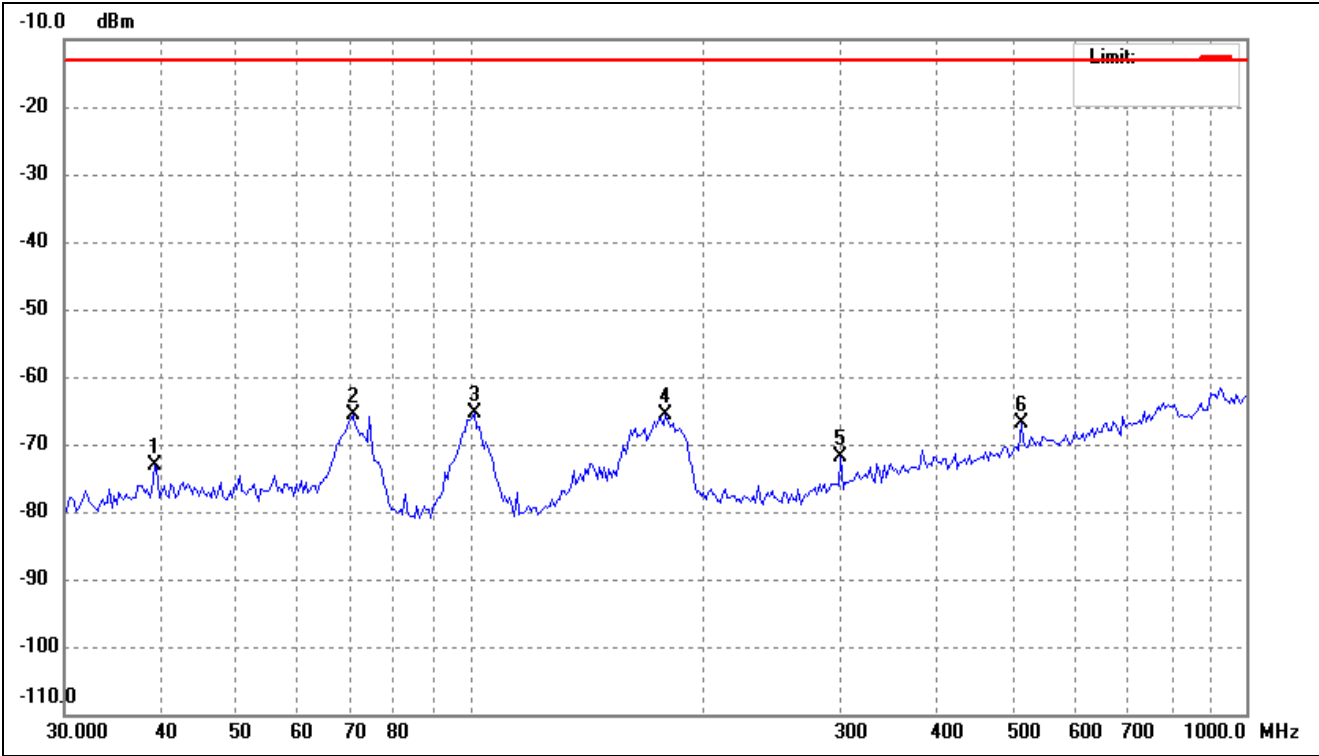
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	74.2696	-65.44	1.94	-63.50	-13.00	-50.50	ERP
2	100.4712	-63.43	-1.66	-65.09	-13.00	-52.09	ERP
3	178.7697	-70.05	4.64	-65.41	-13.00	-52.41	ERP
4	227.0164	-74.47	1.03	-73.44	-13.00	-60.44	ERP
5	523.8763	-76.25	7.57	-68.68	-13.00	-55.68	ERP
6	787.4749	-75.99	12.34	-63.65	-13.00	-50.65	ERP

Test Mode	5G NR	Polarity:	Horizontal
n77(3700-3980MHz)			



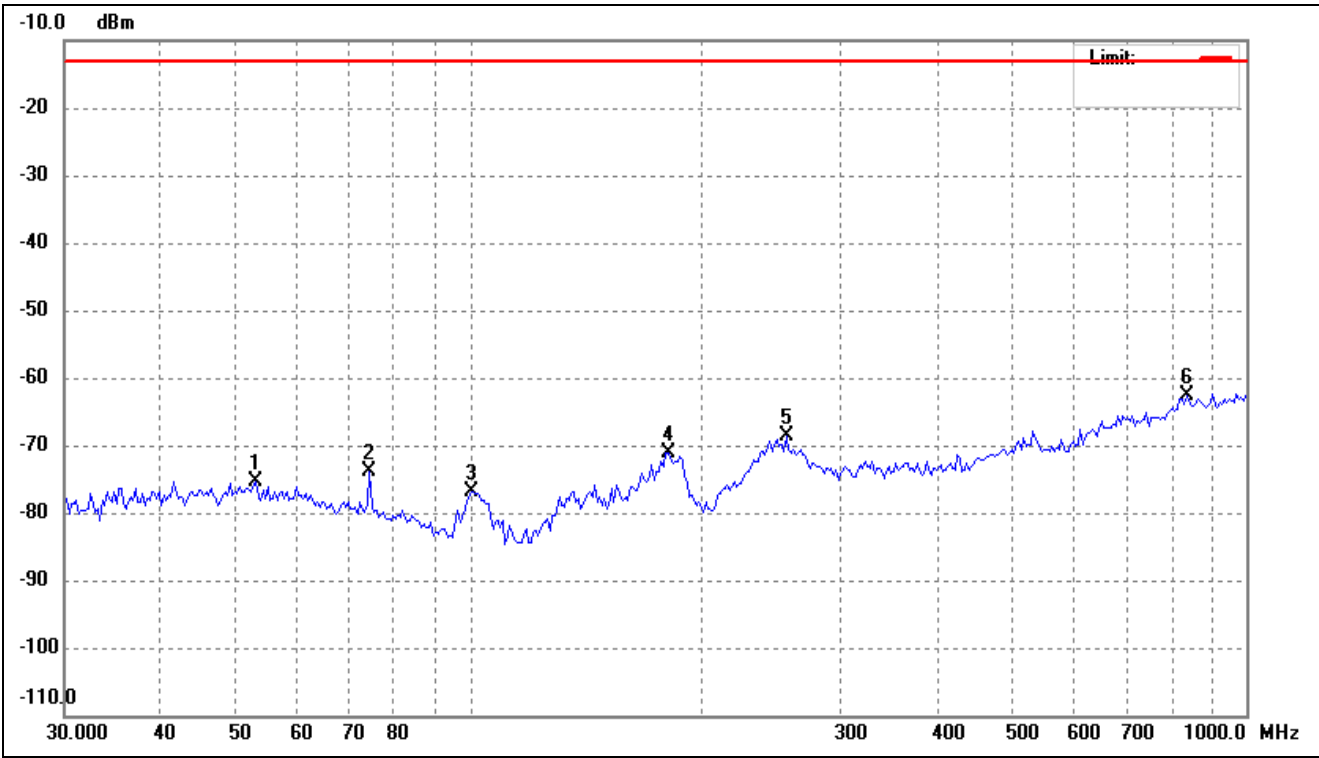
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	37.5648	-77.98	2.32	-75.66	-13.00	-62.66	ERP
2	74.2696	-74.61	0.32	-74.29	-13.00	-61.29	ERP
3	101.1797	-70.95	-4.42	-75.37	-13.00	-62.37	ERP
4	177.5179	-72.29	0.98	-71.31	-13.00	-58.31	ERP
5	257.6266	-75.83	7.92	-67.91	-13.00	-54.91	ERP
6	821.3871	-76.13	12.97	-63.16	-13.00	-50.16	ERP

Test Mode	5G NR n77(3700-3980MHz)	Polarity:	Vertical
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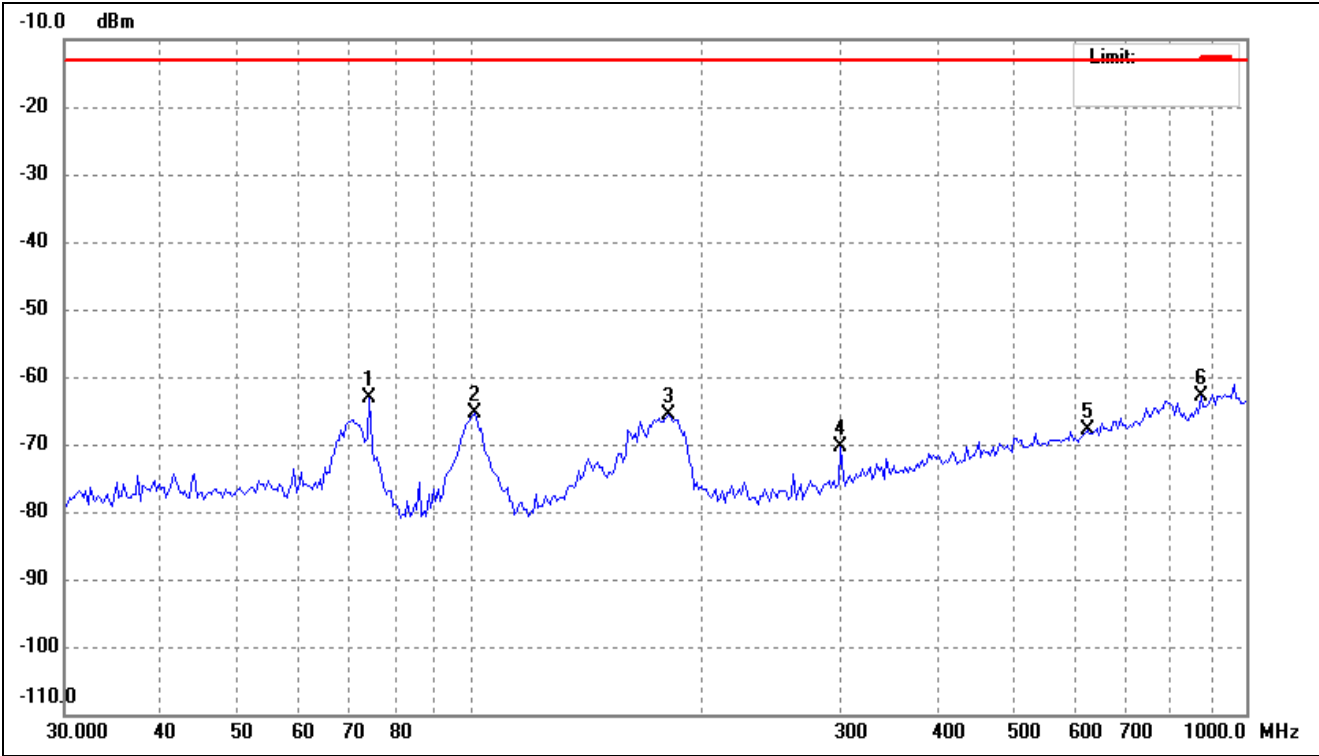
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	39.1825	-75.64	2.47	-73.17	-13.00	-60.17	ERP
2	70.7047	-68.57	2.90	-65.67	-13.00	-52.67	ERP
3	101.1797	-63.68	-1.61	-65.29	-13.00	-52.29	ERP
4	178.7697	-70.25	4.64	-65.61	-13.00	-52.61	ERP
5	300.6988	-75.25	3.32	-71.93	-13.00	-58.93	ERP
6	512.9478	-74.32	7.38	-66.94	-13.00	-53.94	ERP

Test Mode	5G NR n78(3450-3550MHz)	Polarity:	Horizontal
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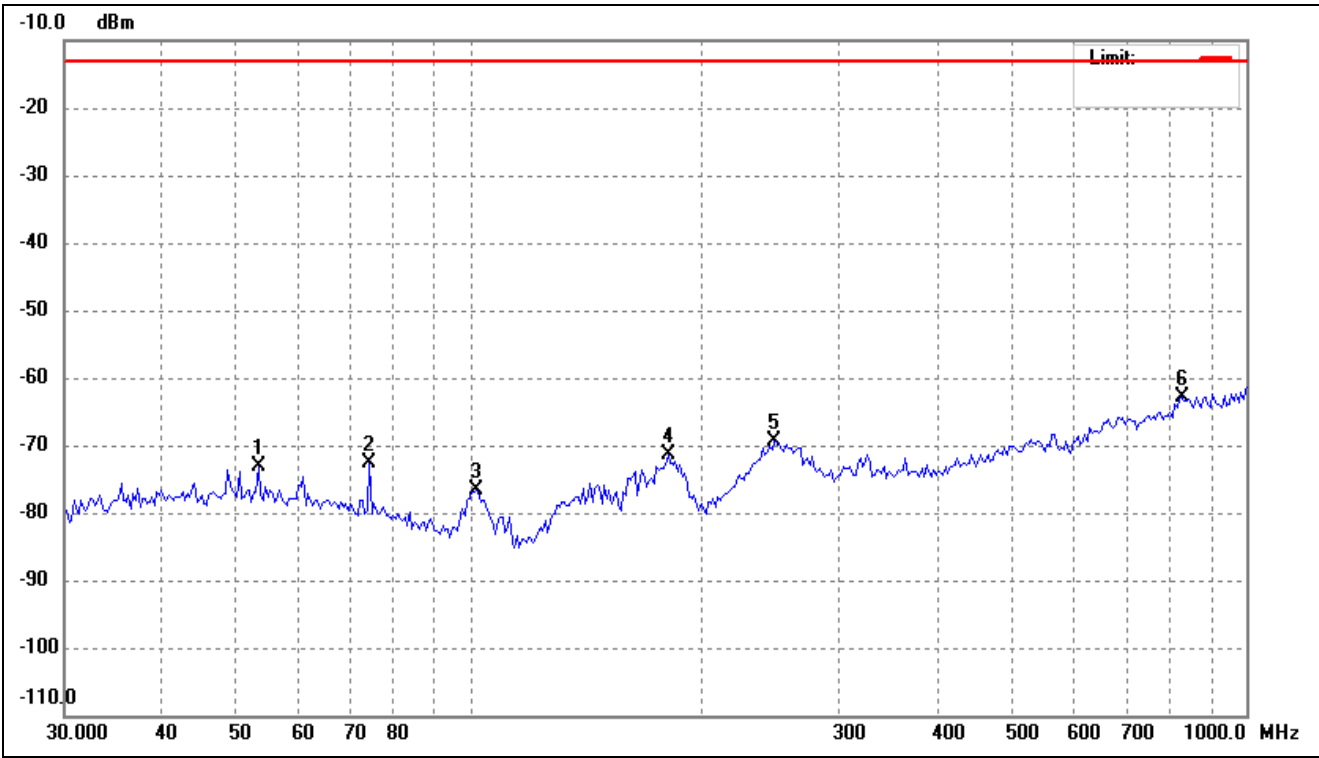
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	53.0056	-78.48	3.13	-75.35	-13.00	-62.35	ERP
2	74.2696	-74.19	0.32	-73.87	-13.00	-60.87	ERP
3	100.4712	-72.40	-4.41	-76.81	-13.00	-63.81	ERP
4	180.0304	-72.07	0.98	-71.09	-13.00	-58.09	ERP
5	255.8226	-76.78	8.07	-68.71	-13.00	-55.71	ERP
6	838.8870	-76.24	13.50	-62.74	-13.00	-49.74	ERP

Test Mode	5G NR n78(3450-3550MHz)	Polarity:	Vertical
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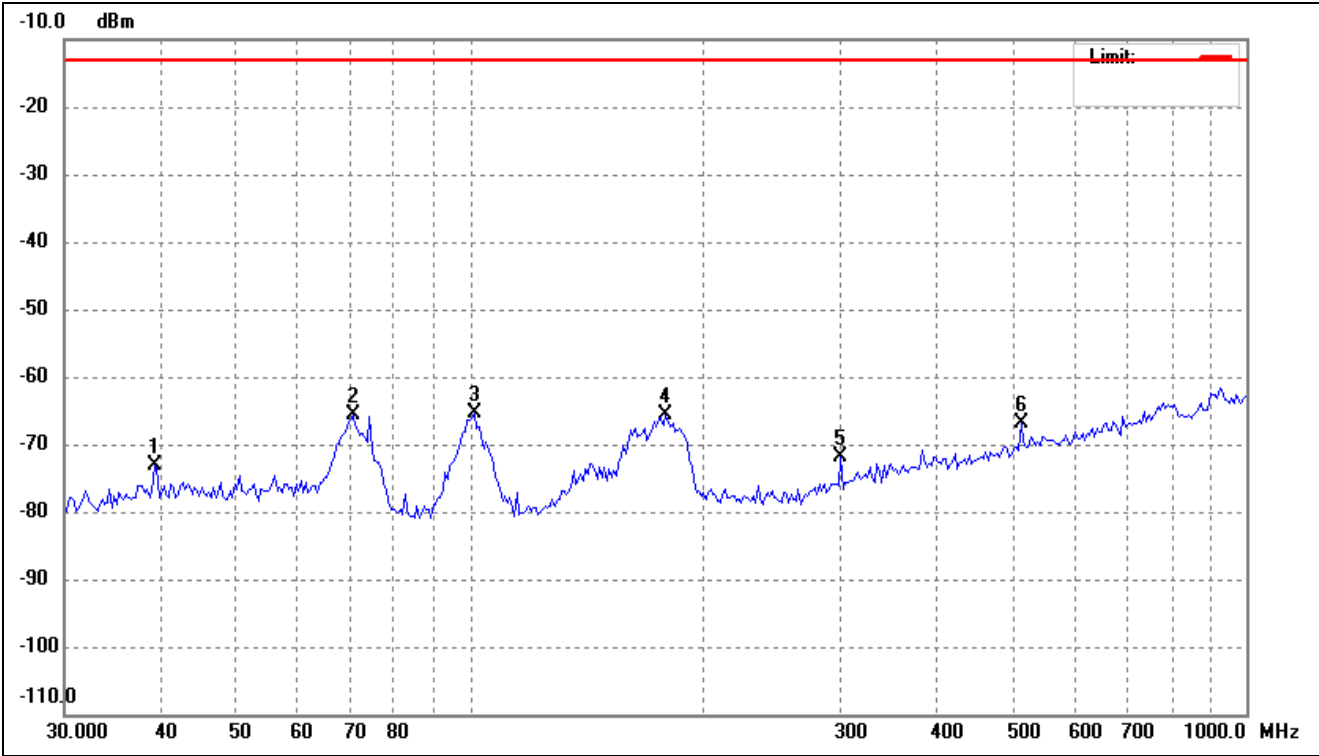
No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	74.2696	-65.07	1.94	-63.13	-13.00	-50.13	ERP
2	101.1797	-63.67	-1.61	-65.28	-13.00	-52.28	ERP
3	180.0304	-70.09	4.42	-65.67	-13.00	-52.67	ERP
4	300.6988	-73.57	3.32	-70.25	-13.00	-57.25	ERP
5	624.4897	-77.09	9.14	-67.95	-13.00	-54.95	ERP
6	875.0133	-74.99	12.05	-62.94	-13.00	-49.94	ERP

Test Mode	5G NR n78(3700-3980MHz)	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	53.3794	-76.17	3.09	-73.08	-13.00	-60.08	ERP
2	74.2696	-72.95	0.32	-72.63	-13.00	-59.63	ERP
3	101.8932	-72.25	-4.43	-76.68	-13.00	-63.68	ERP
4	180.0304	-72.38	0.98	-71.40	-13.00	-58.40	ERP
5	246.9901	-77.42	8.03	-69.39	-13.00	-56.39	ERP
6	827.1795	-76.00	13.24	-62.76	-13.00	-49.76	ERP

Test Mode	5G NR n78(3700-3980MHz)	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	39.1825	-75.55	2.47	-73.08	-13.00	-60.08	ERP
2	74.2696	-66.07	1.94	-64.13	-13.00	-51.13	ERP
3	100.4712	-63.21	-1.66	-64.87	-13.00	-51.87	ERP
4	176.2748	-70.63	5.07	-65.56	-13.00	-52.56	ERP
5	509.3559	-75.59	7.33	-68.26	-13.00	-55.26	ERP
6	781.9606	-75.50	12.20	-63.30	-13.00	-50.30	ERP

Note: Margin= (Reading+ Correct)- Limit

➤ Spurious Emissions Above 1GHz

For 5G NR n5 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (826.5MHz)						
1653.00	-48.68	4.94	-43.74	-13	-30.74	H
2479.50	-55.54	8.46	-47.08	-13	-34.08	H
1653.00	-47.9	4.94	-42.96	-13	-29.96	V
2479.50	-56.03	8.46	-47.57	-13	-34.57	V
Middle Channel (836.5MHz)						
1673.00	-49.21	5.11	-44.1	-13	-31.1	H
2509.50	-52.05	8.54	-43.51	-13	-30.51	H
1673.00	-47.18	5.11	-42.07	-13	-29.07	V
2509.50	-54.67	8.54	-46.13	-13	-33.13	V
High Channel (846.5MHz)						
1693.00	-47.27	5.25	-42.02	-13	-29.02	H
2539.50	-53.87	8.57	-45.3	-13	-32.3	H
1693.00	-48.78	5.25	-43.53	-13	-30.53	V
2539.50	-56.60	8.57	-48.03	-13	-35.03	V

For 5G NR n7 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (2502.5MHz)						
5005.0	-42.27	11.66	-30.61	-25	-5.61	H
7507.5	-45.95	15.09	-30.86	-25	-5.86	H
5005.0	-43.99	11.66	-32.33	-25	-7.33	V
7507.5	-44.12	15.09	-29.03	-25	-4.03	V
Middle Channel (2535MHz)						
5070.0	-43.63	11.78	-31.85	-25	-6.85	H
7605.0	-44.82	15.21	-29.61	-25	-4.61	H
5070.0	-43.99	11.78	-32.21	-25	-7.21	V
7605.0	-46.62	15.21	-31.41	-25	-6.41	V
High Channel (2567.5MHz)						
5135.0	-44.05	11.89	-32.16	-25	-7.16	H
7702.5	-45.86	15.32	-30.54	-25	-5.54	H
5135.0	-44.91	11.89	-33.02	-25	-8.02	V
7702.5	-44.15	15.32	-28.83	-25	-3.83	V

For 5G NR n12 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (701.5MHz)						
1403.00	-42.19	4.01	-38.18	-13	-25.18	H
2104.50	-41.95	7.32	-34.63	-13	-21.63	H
1403.00	-41.17	4.01	-37.16	-13	-24.16	V
2104.50	-41.59	7.32	-34.27	-13	-21.27	V
Middle Channel (707.5MHz)						
1415.00	-39.26	4.11	-35.15	-13	-22.15	H
2122.50	-44.8	7.54	-37.26	-13	-24.26	H
1415.00	-41.88	4.11	-37.77	-13	-24.77	V
2122.50	-44.58	7.54	-37.04	-13	-24.04	V
High Channel (713.5MHz)						
1427.00	-39.56	4.35	-35.21	-13	-22.21	H
2140.50	-42.86	7.88	-34.98	-13	-21.98	H
1427.00	-40.51	4.35	-36.16	-13	-23.16	V
2140.50	-44.55	7.88	-36.67	-13	-23.67	V

For 5G NR n13 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (779.5MHz)						
1559.00	-41.45	4.52	-36.93	-13	-23.93	H
2338.50	-40.34	7.96	-32.38	-13	-19.38	H
1559.00	-42.27	4.52	-37.75	-13	-24.75	V
2338.5	-39.62	7.96	-31.66	-13	-18.66	V
Middle Channel (782.0MHz)						
1564.00	-39.28	4.68	-34.6	-13	-21.6	-39.28
2346.00	-43.74	8.02	-35.72	-13	-22.72	-43.74
1564.00	-38.66	4.68	-33.98	-13	-20.98	-38.66
2346.00	-44.37	8.05	-36.32	-13	-23.32	-44.37
High Channel (784.5MHz)						
1569.00	-38.85	4.68	-34.17	-13	-21.17	H
2353.50	-43.25	4.85	-38.4	-13	-25.4	H
1569.00	-38.01	8.26	-29.75	-13	-16.75	V
2353.50	-44.08	4.85	-39.23	-13	-26.23	V

For 5G NR n25 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (1852.5MHz)						
3705.00	-37.06	10.56	-26.5	-13	-13.5	H
5557.50	-41.55	13.38	-28.17	-13	-15.17	H
3705.00	-34.54	10.56	-23.98	-13	-10.98	V
5557.50	-40.99	13.38	-27.61	-13	-14.61	V
Middle Channel (1882.5MHz)						
3765.00	-35.75	10.64	-25.11	-13	-12.11	H
5647.50	-40.16	13.54	-26.62	-13	-13.62	H
3765.00	-32.35	10.64	-21.71	-13	-8.71	V
5647.50	-41.03	13.54	-27.49	-13	-14.49	V
High Channel (1912.5MHz)						
3825.00	-40.89	10.74	-30.15	-13	-17.15	H
5737.50	-39.26	13.71	-25.55	-13	-12.55	H
3825.00	-40.47	10.74	-29.73	-13	-16.73	V
5737.50	-40.62	13.71	-26.91	-13	-13.91	V

For 5G NR n26 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (824.7MHz)						
1649.40	-42.32	4.94	-37.38	-13	-24.38	H
2474.10	-42.11	8.46	-33.65	-13	-20.65	H
1649.40	-42.9	4.94	-37.96	-13	-24.96	V
2474.10	-40.89	8.46	-32.43	-13	-19.43	V
Middle Channel (836.5MHz)						
1673.00	-40.74	5.11	-35.63	-13	-22.63	H
2509.50	-41.71	8.54	-33.17	-13	-20.17	H
1673.00	-41.54	5.11	-36.43	-13	-23.43	V
2509.50	-44.52	8.54	-35.98	-13	-22.98	V
High Channel (848.3MHz)						
1696.60	-40.87	5.25	-35.62	-13	-22.62	H
2544.90	-42.09	8.57	-33.52	-13	-20.52	H
1696.60	-38.1	5.25	-32.85	-13	-19.85	V
2544.90	-42.89	8.57	-34.32	-13	-21.32	V

For 5G NR n30 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (2307.5 MHz)						
4615.00	-59.47	11.74	-47.73	-40	-7.73	H
6922.50	-59.63	12.57	-47.06	-40	-7.06	H
4615.00	-59.46	11.74	-47.72	-40	-7.72	V
6922.50	-58.15	12.57	-45.58	-40	-5.58	V
Middle Channel (2310.0MHz)						
4620.00	-59.29	11.76	-47.53	-40	-7.53	H
6930.50	-58.03	12.59	-45.44	-40	-5.44	H
4620.00	-59.71	11.76	-47.95	-40	-7.95	V
6930.50	-59.34	12.59	-46.75	-40	-6.75	V
High Channel (2312.5MHz)						
4625.00	-59.96	11.81	-48.15	-40	-8.15	H
6937.50	-58.25	12.62	-45.63	-40	-5.63	H
4625.00	-59.79	11.81	-47.98	-40	-7.98	V
6937.50	-59.55	12.62	-46.93	-40	-6.93	V

For 5G NR n38 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (2580MHz)						
5160.00	-46.36	12.53	-33.83	-25	-8.83	H
7740.00	-50.91	15.76	-35.15	-25	-10.15	H
5160.00	-43.64	12.53	-31.11	-25	-6.11	V
7740.00	-50.91	15.76	-35.15	-25	-10.15	V
Middle Channel (2595.0MHz)						
5190.00	-48.18	12.32	-35.86	-25	-10.86	H
7785.00	-43.64	15.98	-27.66	-25	-2.66	H
5190.00	-42.73	12.62	-30.11	-25	-5.11	V
7785.00	-50.91	15.98	-34.93	-25	-9.93	V
High Channel (2610.0MHz)						
5220.00	-43.64	13.24	-30.40	-25	-5.40	H
7830.00	-48.18	16.87	-31.31	-25	-6.31	H
5220.00	-47.27	13.24	-34.03	-25	-9.03	V
7830.00	-46.36	16.87	-29.49	-25	-4.49	V

For 5G NR n41 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (2506.0MHz)						
5012.0	-41.7	10.72	-30.98	-25	-5.98	H
7518.0	-47.07	14.83	-32.24	-25	-7.24	H
5012.0	-42.33	10.72	-31.61	-25	-6.61	V
7518.0	-45.11	14.83	-30.28	-25	-5.28	V
Middle Channel (2593.0MHz)						
5186.0	-44.86	11.32	-33.54	-25	-8.54	H
7779.0	-47.33	16.41	-30.92	-25	-5.92	H
5186.0	-44.88	11.32	-33.56	-25	-8.56	V
7779.0	-45.47	16.41	-29.06	-25	-4.06	V
High Channel (2680.0MHz)						
5360.0	-41.64	12.49	-29.15	-25	-4.15	H
8040.0	-46.25	17.98	-28.27	-25	-3.27	H
5360.0	-42.22	12.49	-29.73	-25	-4.73	V
8040.0	-45.47	17.98	-27.49	-25	-2.49	V

For 5G NR n66 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (1712.50MHz)						
3425.00	-42.29	9.22	-33.07	-13	-20.07	H
5137.50	-39.34	11.35	-27.99	-13	-14.99	H
3425.00	-41.51	9.22	-32.29	-13	-19.29	V
5137.50	-40.70	11.35	-29.35	-13	-16.35	V
Middle Channel (1745.00MHz)						
3490	-38.14	9.53	-28.61	-13	-15.61	H
5235	-43.29	11.98	-31.31	-13	-18.31	H
3490	-39.56	9.53	-30.03	-13	-17.03	V
5235	-43.87	11.98	-31.89	-13	-18.89	V
High Channel (1777.50MHz)						
3555.00	-40.56	9.82	-30.74	-13	-17.74	H
5332.50	-41.25	12.35	-28.9	-13	-15.9	H
3555.00	-39.47	9.82	-29.65	-13	-16.65	V
5332.50	-41.03	12.35	-28.68	-13	-15.68	V

For 5G NR n70 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Middle Channel (1702.50MHz)						
3405.0	-41.14	8.13	-33.01	-13	-20.01	H
5107.5	-41.38	11.71	-29.67	-13	-16.67	H
3405.0	-40.12	8.13	-31.99	-13	-18.99	V
5107.5	-42.94	11.71	-31.23	-13	-18.23	V

For 5G NR n71 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (665.5MHz)						
1331.00	-41.35	4.15	-37.2	-13	-24.2	H
1996.50	-41.91	7.62	-34.29	-13	-21.29	H
1331.00	-41.46	4.15	-37.31	-13	-24.31	V
1996.50	-41.18	7.62	-33.56	-13	-20.56	V
Middle Channel (680.5MHz)						
1361.00	-41.72	4.48	-37.24	-13	-24.24	H
2041.50	-43.75	7.93	-35.82	-13	-22.82	H
1361.00	-41.46	4.48	-36.98	-13	-23.98	V
2041.50	-41.63	7.93	-33.7	-13	-20.7	V
High Channel (695.5MHz)						
1391.00	-41.87	4.71	-37.16	-13	-24.16	H
2086.50	-44.35	8.16	-36.19	-13	-23.19	H
1391.00	-41.74	4.71	-37.03	-13	-24.03	V
2086.50	-43.02	8.16	-34.86	-13	-21.86	V

For 5G NR n77(3450-3550MHz) Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (3456.0MHz)						
6910.00	-42.28	15.42	-26.86	-13	-13.86	H
10365.00	-40.37	19.78	-20.59	-13	-7.59	H
6910.00	-42.75	15.42	-27.33	-13	-14.33	V
10365.00	-39.91	19.78	-20.13	-13	-7.13	V
Middle Channel (3500.0MHz)						
7000.00	-40.38	16.53	-23.85	-13	-10.85	H
10500.00	-41.69	20.15	-21.54	-13	-8.54	H
7000.00	-38.8	16.53	-22.27	-13	-9.27	V
10500.00	-41.64	20.15	-21.49	-13	-8.49	V
High Channel (3540MHz)						
7080.00	-40.66	17.15	-23.51	-13	-10.51	H
10620.00	-43.67	21.62	-22.05	-13	-9.05	H
7080.00	-38.53	17.15	-21.38	-13	-8.38	V
10620.00	-44.36	21.62	-22.74	-13	-9.74	V

For 5G NR n77(3700-3980MHz) Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (3710.01MHz)						
7420.00	-40.01	21.59	-18.42	-13	-5.42	H
11130.00	-42.82	24.93	-17.89	-13	-4.89	H
7420.00	-41.14	21.59	-19.55	-13	-6.55	V
11130.00	-41.52	24.93	-16.59	-13	-3.59	V
Middle Channel (3840MHz)						
7680.00	-40.05	22.64	-17.41	-13	-4.41	H
11520.00	-43.61	25.98	-17.63	-13	-4.63	H
7680.00	-39.41	22.64	-16.77	-13	-3.77	V
11520.00	-43.36	25.98	-17.38	-13	-4.38	V
High Channel (3970MHz)						
7940.00	-40.75	23.05	-17.7	-13	-4.70	H
11910.00	-42.98	26.84	-16.14	-13	-3.14	H
7940.00	-39.61	23.05	-16.56	-13	-3.56	V
11910.00	-42.90	26.84	-16.06	-13	-3.06	V

For 5G NR n78(3450-3550MHz) Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (3460MHz)						
7420.00	-40.32	19.24	-21.08	-13	-8.08	H
11130.00	-39.81	21.47	-18.34	-13	-5.34	H
7420.00	-39.62	19.24	-20.38	-13	-7.38	V
11130.00	-39.33	21.47	-17.86	-13	-4.86	V
Middle Channel (3500MHz)						
7680.00	-38.58	19.51	-19.07	-13	-6.07	H
11520.00	-43.05	21.78	-21.27	-13	-8.27	H
7680.00	-39.22	19.51	-19.71	-13	-6.71	V
11520.00	-44.82	21.78	-23.04	-13	-10.04	V
High Channel (3540MHz)						
7940.00	-41.91	19.75	-22.16	-13	-9.16	H
11910.00	-43.01	22.24	-20.77	-13	-7.77	H
7940.00	-41.11	19.75	-21.36	-13	-8.36	V
11910.00	-42.6	22.24	-20.36	-13	-7.36	V

For 5G NR n78(3700-3800MHz) Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (3705.00MHz)						
7410.00	-42.47	21.59	-20.88	-13	-7.88	H
11115.00	-41.5	24.93	-16.57	-13	-3.57	H
7410.00	-41.23	21.59	-19.64	-13	-6.64	V
11115.00	-42.4	24.93	-17.47	-13	-4.47	V
Middle Channel (3750.00MHz)						
7500.00	-41.63	22.64	-18.99	-13	-5.99	H
11250.00	-44.73	25.98	-18.75	-13	-5.75	H
7500.00	-39.73	22.64	-17.09	-13	-4.09	V
11250.00	-41.96	25.98	-15.98	-13	-2.98	V
High Channel (3795.00MHz)						
7590.00	-41.58	23.05	-18.53	-13	-5.53	H
11385.00	-44.43	26.84	-17.59	-13	-4.59	H
7590.00	-40.22	23.05	-17.17	-13	-4.17	V
11385.00	-42.33	26.84	-15.49	-13	-2.49	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.

8. Frequency Stability

8.1 Standard Applicable

According to §22.355, §24.235, §27.54 the limit is 2.5ppm.

8.2 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.

8.3 Summary of Test Results/Plots

Please refer to Appendix F: Frequency Stability

Test result: Pass

APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

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