# FCC RF Test Report

| | |
|---|---|
| APPLICANT | : Motorola Mobility LLC |
| EQUIPMENT | : Mobile Cellular Phone |
| BRAND NAME | : Motorola |
| MODEL NAME | : XT2305-1 |
| FCC ID | : IHDT56AL5 |
| STANDARD | : 47 CFR Part 2, 22, 24, 27 |
| CLASSIFICATION | : PCS Licensed Transmitter Held to Ear (PCE) |
| TEST DATE(S) | : Mar. 30, 2023 |

**We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.**

**The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.**

Jason Jia

**Approved by: Jason Jia**

ACCREDITED Cert #5145.02

***Sporton International Inc. (Kunshan)***
***No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300***
***People's Republic of China***

# TABLE OF CONTENTS

# REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|---|---|---|---|
| FG322305S | Rev. 01 | Initial issue of report | Apr. 23, 2023 |
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# SUMMARY OF TEST RESULT

| Report Section | FCC Rule | Description | Limit | Result | Remark |
|---|---|---|---|---|---|
| - | §2.1046 | Conducted Output Power | Reporting Only | PASS | 1 |
| | §22.913(a)(5) | Effective Radiated Power (5G NR n5, n26) | ERP < 7 Watt | | |
| | §27.50(c)(10) | Effective Radiated Power (5G NR n71) | ERP < 3 Watt | | |
| | §27.50 (a)(3) | EIRP(5G NR n30) | EIRP < 250mW/5MHz | | |
| | §27.50(h)(2) | Equivalent Isotropic Radiated Power (5G NR n2, n25, n41) | EIRP < 2Watt | | |
| | §27.50(d)(4) §27.50(j)(3) | Equivalent Isotropic Radiated Power (5G NR n66, n70, n77) | EIRP < 1Watt | | |
| | §27.50 (a)(3) | EIRP | EIRP < 250mW/5MHz | | |
| - | §24.232(d) §27.50(j)(4) | Peak-to-Average Ratio | <13 dB | PASS | 1 |
| - | §2.1049 | Occupied Bandwidth | Reporting Only | PASS | 1 |
| - | §2.1051 §22.917(a) §24.238(a) §27.53(h) §27.53(g) §27.53(l)(2) | Conducted Band Edge Measurement (5G NR n5, n26) (5G NR n2, n25) (5G NR n66, n70) (5G NR n71) (5G NR n77) | < 43+10log10(P[Watts]) | PASS | 1 |
| | §27.53(m)(4) | Conducted Band Edge Measurement (5G NR n41) | §27.53(m)(4) | | |
| | §27.53 (a)(4) | Conducted Band Edge Measurement (5G NR n30) | Refer standard | | |
| - | §2.1051 §22.917(a) §24.238(a) §27.53(h) §27.53(g) §27.53(l)(2) | Conducted Spurious Emission (5G NR n5, n26) (5G NR n2, n25) (5G NR n66, n70) (5G NR n71) (5G NR n77) | < 43+10log10(P[Watts]) | PASS | 1 |
| | §27.53(m)(4) | Conducted Spurious Emission (5G NR n41) | < 55+10log$_{10}$(P[Watts]) | | |
| | §27.53 (a)(4) | Conducted Spurious Emission (5G NR n30) | < 70+10log10(P[Watts]) | | |
| - | §2.1055 §22.355 | Frequency Stability Temperature & Voltage | < 2.5 ppm for Part 22 | PASS | 1 |
| | §24.235 §27.54 | | Within Authorized Band | | |
| 3.4 | §2.1053 §22.917(a) §24.238(a) §27.53(h) §27.53(g) §27.53(l)(2) | Radiated Spurious Emission (5G NR n5, n26) (5G NR n2, n25) (5G NR n66, n70) (5G NR n12, n71) (5G NR n77) | < 43+10log$_{10}$(P[Watts]) | PASS | Under limit 22.28 dB at 6916.00 MHz |
| | §27.53(m)(4) | Radiated Spurious Emission (5G NR n41) | < 55+10log$_{10}$(P[Watts]) | | |
| | §27.53 (a)(4) | Radiated Spurious Emission (5G NR n30) | < 70+10log10(P[Watts]) | | |

**Remark 1 :**
The test items of inter band CA were cover by 5G NR single carrier due to the CA power is reduced according to 3GPP MPR.

| Declaration of Conformity: |
| --- |
| The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. |
| **Comments and Explanations:** |
| The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification. |

# 1 General Description

## 1.1 Applicant

**Motorola Mobility LLC**
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

## 1.2 Manufacturer

**Motorola Mobility LLC**
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

## 1.3 Product Feature of Equipment Under Test

| Product Feature | |
|---|---|
| **Equipment** | Mobile Cellular Phone |
| **Brand Name** | Motorola |
| **Model Name** | XT2305-1 |
| **FCC ID** | IHDT56AL5 |
| **IMEI Code** | Radiation : 351048560020038/351048560020046 |
| **HW Version** | DVT2 |
| **SW Version** | TTT33.46 |
| **EUT Stage** | Identical Prototype |

## 1.4 Product Specification of Equipment Under Test

| Standards-related Product Specification | |
|---|---|
| **Tx Frequency** | 5G NR n2 : 1850 MHz ~ 1910 MHz<br>5G NR n5 : 824 MHz ~ 849 MHz<br>5G NR n25 : 1850 MHz ~ 1915 MHz<br>5G NR n26 : 814 MHz ~ 849 MHz<br>5G NR n30 : 2305 MHz ~ 2315 MHz<br>5G NR n41 : 2496 MHz ~ 2690 MHz<br>5G NR n66 : 1710 MHz ~ 1780 MHz<br>5G NR n70 : 1695 MHz ~ 1710 MHz<br>5G NR n71: 663 MHz ~ 698 MHz<br>5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz |
| **Rx Frequency** | 5G NR n2 : 1930 MHz ~ 1990 MHz<br>5G NR n5 : 869 MHz ~ 894 MHz<br>5G NR n25 : 1930 MHz ~ 1995 MHz<br>5G NR n26 : 859 MHz ~ 894 MHz<br>5G NR n30 : 2350 MHz ~ 2360 MHz<br>5G NR n41 : 2496 MHz ~ 2690 MHz<br>5G NR n66 : 2110 MHz~ 2200 MHz<br>5G NR n70 : 1995 MHz ~ 2020 MHz<br>5G NR n71: 617 MHz ~ 652 MHz<br>5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz |
| **Uplink NR CA Bands** | n2A-n77A, n5A-n77A, n25A-n41A, n30A-n77A, n41A-n66A, n41A-n71A, n66A-n77A, n26A-n66A, n26A-n70A, n66A-n71A, n70A-n71A |
| **Type of Modulation** | CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM<br>DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM |

## 1.5 Modification of EUT

No modifications are made to the EUT during all test items.

## 1.6 Specification of Accessory

| Specification of Accessory | | | | |
|---|---|---|---|---|
| **AC Adapter 1** | **Brand Name** | Motorola (Chenyang) | **Model Name** | MC-681N |
| **AC Adapter 2** | **Brand Name** | Motorola (Acbel) | **Model Name** | MC-681N |
| **Battery** | **Brand Name** | Motorola (Amperex) | **Model Name** | PG44 |
| **USB Cable 1** | **Brand Name** | Motorola (Saibao) | **Model Name** | SC18D86731 |
| **USB Cable 2** | **Brand Name** | Motorola (Saibao) | **Model Name** | SC18D71644 |

## 1.7 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

| | | | |
|---|---|---|---|
| **Test Firm** | Sporton International Inc. (Kunshan) | | |
| **Test Site Location** | No. 1098, Pengxi North Road, Kunshan Economic Development Zone<br>Jiangsu Province 215300 People's Republic of China<br>TEL : +86-512-57900158 | | |
| **Test Site No.** | **Sporton Site No.** | **FCC Designation No.** | **FCC Test Firm Registration No.** |
| | 03CH04-KS | CN1257 | 314309 |

## 1.8 Test Software

| Item | Site | Manufacturer | Name | Version |
|---|---|---|---|---|
| 1. | 03CH04-KS | AUDIX | E3 | 6.2009-8-24al |

## 1.9 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 22, 24, 27
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.

# 2 Test Configuration of Equipment Under Test

## 2.1 Test Mode

Antenna port conducted and radiated test items are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

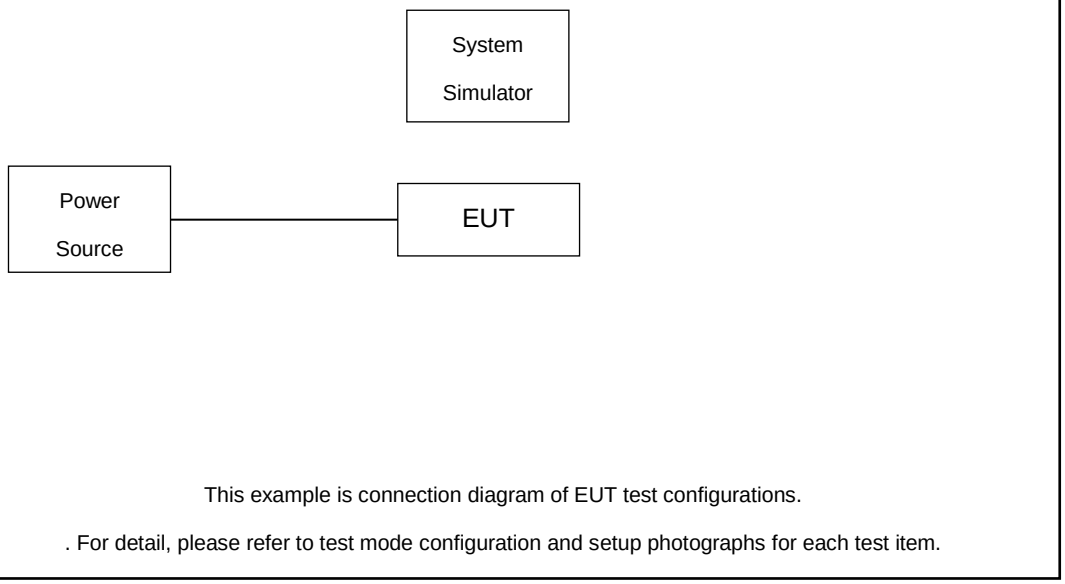
For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases were recorded in this report.

The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.

| | X Plane | Y Plane | Z Plane |
|---|---|---|---|
| **Orthogonal Planes of EUT** |  |  |  |

| Test Items | Band | Bandwidth (MHz) | | | | | | Modulation | | | | | RB # | | Test Channel | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5 | 10 | 15 | 20 | 25-90 | 100 | PI/2 BPSK | QPSK | 16QAM | 64QAM | 256QAM | 1 | Full | L | M | H |
| Radiated Spurious Emission | CA_n2A-n77A | Worst Case | | | | | | | | | | | | | v | v | v |
| | CA_n5A-n77A | Worst Case | | | | | | | | | | | | | v | v | v |
| | CA_n25A-n41A | Worst Case | | | | | | | | | | | | | v | v | v |
| | CA_n30A-n77A | Worst Case | | | | | | | | | | | | | v | v | v |
| | CA_n41A-n66A | Worst Case | | | | | | | | | | | | | v | v | v |
| | CA_n41A-n71A | Worst Case | | | | | | | | | | | | | v | v | v |
| | CA_n66A-n77A | Worst Case | | | | | | | | | | | | | v | v | v |
| | CA_n26A-n66A | Worst Case | | | | | | | | | | | | | v | v | v |
| | CA_n26A-n70A | Worst Case | | | | | | | | | | | | | v | v | v |
| | CA_n66A-n71A | Worst Case | | | | | | | | | | | | | v | v | v |
| | CA_n70A-n71A | Worst Case | | | | | | | | | | | | | v | v | v |
| Note | 1. The mark "**v** " means that this configuration is chosen for testing<br>2. The mark "-" means that this bandwidth is not supported.<br>3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. | | | | | | | | | | | | | | | | |

## 2.2 Connection Diagram of Test System




This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

## 2.3 Support Unit used in test configuration and system

| Item | Equipment | Trade Name | Model No. | FCC ID | Data Cable | Power Cord |
|---|---|---|---|---|---|---|
| 1. | DC Power Supply | GW | GPS-3030D | N/A | N/A | Unshielded, 1.8 m |
| 2. | LTE Base Station | Anritsu | MT8820/8821 | N/A | N/A | Unshielded, 1.8 m |

## 2.4 Frequency List of Low/Middle/High Channels

| 5G NR n2 Channel and Frequency List | | | | |
|---|---|---|---|---|
| BW [MHz] | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20 | Channel | 372000 | 376000 | 380000 |
| | Frequency | 1860 | 1880 | 1900 |
| 15 | Channel | 371500 | 376000 | 380500 |
| | Frequency | 1857.5 | 1880 | 1902.5 |
| 10 | Channel | 371000 | 376000 | 381000 |
| | Frequency | 1855 | 1880 | 1905 |
| 5 | Channel | 370500 | 376000 | 381500 |
| | Frequency | 1852.5 | 1880 | 1907.5 |

| 5G NR n5 Channel and Frequency List | | | | |
|---|---|---|---|---|
| BW [MHz] | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20 | Channel | 166800 | 167300 | 167800 |
| | Frequency | 834 | 836.5 | 839 |
| 15 | Channel | 166300 | 167300 | 168300 |
| | Frequency | 831.5 | 836.5 | 841.5 |
| 10 | Channel | 165800 | 167300 | 168800 |
| | Frequency | 829 | 836.5 | 844 |
| 5 | Channel | 165300 | 167300 | 169300 |
| | Frequency | 826.5 | 836.5 | 846.5 |

| 5G NR n25 Channel and Frequency List | | | | |
|---|---|---|---|---|
| BW [MHz] | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 40 | Channel | 390000 | 392500 | 395000 |
| | Frequency | 1870 | 1882.5 | 1895 |
| 30 | Channel | 389000 | 392500 | 396000 |
| | Frequency | 1865 | 1882.5 | 1900 |
| 25 | Channel | 388500 | 392500 | 396500 |
| | Frequency | 1862.5 | 1882.5 | 1902.5 |
| 20 | Channel | 372000 | 376500 | 381000 |
| | Frequency | 1860 | 1882.5 | 1905 |
| 15 | Channel | 371500 | 376500 | 381500 |
| | Frequency | 1857.5 | 1882.5 | 1907.5 |
| 10 | Channel | 371000 | 376500 | 382000 |
| | Frequency | 1855 | 1882.5 | 1910 |
| 5 | Channel | 370500 | 376500 | 382500 |
| | Frequency | 1852.5 | 1882.5 | 1912.5 |

| 5G NR n26 Channel and Frequency List for SCS 15k/30k | | | | |
|---|---|---|---|---|
| BW [MHz] | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20 | Channel | 175800 | 176300 | 176800 |
| | Frequency | 834 | 836.5 | 839 |
| 15 | Channel | 175300 | 176300 | 177300 |
| | Frequency | 831.5 | 836.5 | 841.5 |
| 10 | Channel | 174800 | 176300 | 177800 |
| | Frequency | 829 | 836.5 | 844 |
| 5 | Channel | 174300 | 176300 | 178300 |
| | Frequency | 826.5 | 836.5 | 846.5 |

| 5G NR n30 Channel and Frequency List | | | | |
|---|---|---|---|---|
| BW [MHz] | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10 | Channel | | 462000 | |
| | Frequency | | 2310 | |
| 5 | Channel | 461500 | 462000 | 462500 |
| | Frequency | 2307.5 | 2310 | 2312.5 |

| 5G NR n41 Channel and Frequency List | | | | |
|---|---|---|---|---|
| BW [MHz] | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 100 | Channel | 509202 | 518598 | 528000 |
| | Frequency | 2546.01 | 2592.99 | 2640 |
| 90 | Channel | 508200 | 518598 | 528996 |
| | Frequency | 2541 | 2592.99 | 2644.98 |
| 80 | Channel | 507204 | 518598 | 529998 |
| | Frequency | 2536.02 | 2592.99 | 2649.99 |
| 70 | Channel | 506202 | 518598 | 531000 |
| | Frequency | 2531.01 | 2592.99 | 2655 |
| 60 | Channel | 505200 | 518598 | 531996 |
| | Frequency | 2526 | 2592.99 | 2659.98 |
| 50 | Channel | 504204 | 518598 | 532998 |
| | Frequency | 2521.02 | 2592.99 | 2664.99 |
| 40 | Channel | 503202 | 518598 | 534000 |
| | Frequency | 2516.01 | 2592.99 | 2670 |
| 30 | Channel | 502200 | 518601 | 534999 |
| | Frequency | 2511 | 2593.005 | 2674.995 |
| 20 | Channel | 501204 | 518598 | 535998 |
| | Frequency | 2506.02 | 2592.99 | 2679.99 |
| 15 | Channel | 500700 | 518598 | 536496 |
| | Frequency | 2503.5 | 2592.99 | 2682.48 |
| 10 | Channel | 500202 | 518598 | 537000 |
| | Frequency | 2501.01 | 2592.99 | 2685 |

| 5G NR n66 Channel and Frequency List | | | | |
|---|---|---|---|---|
| BW [MHz] | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 40 | Channel | 346000 | 349000 | 352000 |
| | Frequency | 1730 | 1745 | 1760 |
| 30 | Channel | 345000 | 349000 | 353000 |
| | Frequency | 1725 | 1745 | 1765 |
| 25 | Channel | 344500 | 349000 | 353500 |
| | Frequency | 1722.5 | 1745 | 1767.5 |
| 20 | Channel | 344000 | 349000 | 354000 |
| | Frequency | 1720 | 1745 | 1770 |
| 15 | Channel | 343500 | 349000 | 354500 |
| | Frequency | 1717.5 | 1745 | 1772.5 |
| 10 | Channel | 343000 | 349000 | 355000 |
| | Frequency | 1715 | 1745 | 1775 |
| 5 | Channel | 342500 | 349000 | 355500 |
| | Frequency | 1712.5 | 1745 | 1777.5 |

| 5G NR n71 Channel and Frequency List | | | | |
|---|---|---|---|---|
| BW [MHz] | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20 | Channel | 134600 | 136100 | 137600 |
| | Frequency | 673 | 680.5 | 688 |
| 15 | Channel | 134100 | 136100 | 138100 |
| | Frequency | 670.5 | 680.5 | 690.5 |
| 10 | Channel | 133600 | 136100 | 138600 |
| | Frequency | 668 | 680.5 | 693 |
| 5 | Channel | 133100 | 136100 | 139100 |
| | Frequency | 665.5 | 680.5 | 695.5 |

| 5G NR n70 Channel and Frequency List | | | | |
|---|---|---|---|---|
| BW [MHz] | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 15 | Channel | 340500 | | |
| | Frequency | 1702.5 | | |
| 10 | Channel | 340000 | 340500 | 341000 |
| | Frequency | 1700 | 1702.5 | 1705 |
| 5 | Channel | 399500 | 340500 | 341500 |
| | Frequency | 1697.5 | 1702.5 | 1707.5 |

| 5G n77 Channel and Frequency List for Part 27O | | | | |
|---|---|---|---|---|
| **BW [MHz]** | **Channel/Frequency(MHz)** | **Lowest** | **Middle** | **Highest** |
| 100 | Channel | 650000 | 656000 | 662000 |
| | Frequency | 3750 | 3840 | 3930 |
| 90 | Channel | 649668 | 656000 | 662334 |
| | Frequency | 3745.02 | 3840 | 3935.01 |
| 80 | Channel | 649334 | 656000 | 662666 |
| | Frequency | 3740.01 | 3840 | 3939.99 |
| 70 | Channel | 649000 | 656000 | 663000 |
| | Frequency | 3735 | 3840 | 3945 |
| 60 | Channel | 648668 | 656000 | 663332 |
| | Frequency | 3730.02 | 3840 | 3949.98 |
| 50 | Channel | 648334 | 656000 | 663668 |
| | Frequency | 3725.01 | 3840 | 3955.02 |
| 40 | Channel | 648000 | 656000 | 664000 |
| | Frequency | 3720 | 3840 | 3960 |
| 30 | Channel | 647668 | 656000 | 664332 |
| | Frequency | 3715.02 | 3840 | 3964.98 |
| 20 | Channel | 647334 | 656000 | 664666 |
| | Frequency | 3710.01 | 3840 | 3969.99 |
| 15 | Channel | 647168 | 656000 | 664832 |
| | Frequency | 3707.52 | 3840 | 3972.48 |
| 10 | Channel | 647000 | 656000 | 665000 |
| | Frequency | 3705 | 3840 | 3975 |

| 5G n77 Channel and Frequency List for Part 27Q | | | | |
|---|---|---|---|---|
| **BW [MHz]** | **Channel/Frequency(MHz)** | **Lowest** | **Middle** | **Highest** |
| 100 | Channel | - | 633334 | - |
| | Frequency | - | 3500.01 | - |
| 90 | Channel | 633000 | 633334 | 633666 |
| | Frequency | 3495.00 | 3500.01 | 3504.99 |
| 80 | Channel | 632668 | 633334 | 634000 |
| | Frequency | 3490.02 | 3500.01 | 3510.00 |
| 70 | Channel | 632334 | 633334 | 634332 |
| | Frequency | 3485.01 | 3500.01 | 3514.98 |
| 60 | Channel | 632000 | 633334 | 634666 |
| | Frequency | 3480.00 | 3500.01 | 3519.99 |
| 50 | Channel | 631668 | 633334 | 635000 |
| | Frequency | 3475.02 | 3500.01 | 3525.00 |
| 40 | Channel | 631334 | 633334 | 635332 |
| | Frequency | 3470.01 | 3500.01 | 3529.98 |
| 30 | Channel | 631000 | 633334 | 635666 |
| | Frequency | 3465 | 3500.01 | 3534.99 |
| 20 | Channel | 630668 | 633334 | 636000 |
| | Frequency | 3460.02 | 3500.01 | 3540.00 |
| 15 | Channel | 630500 | 633334 | 636166 |
| | Frequency | 3457.50 | 3500.01 | 3542.49 |
| 10 | Channel | 630334 | 633334 | 636332 |
| | Frequency | 3455.01 | 3500.01 | 3544.98 |

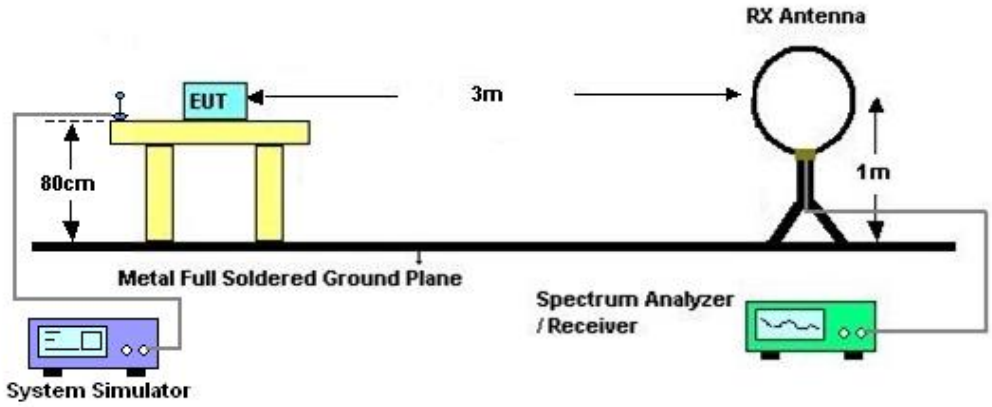
# 3 Radiated Test Items

## 3.1 Measuring Instruments

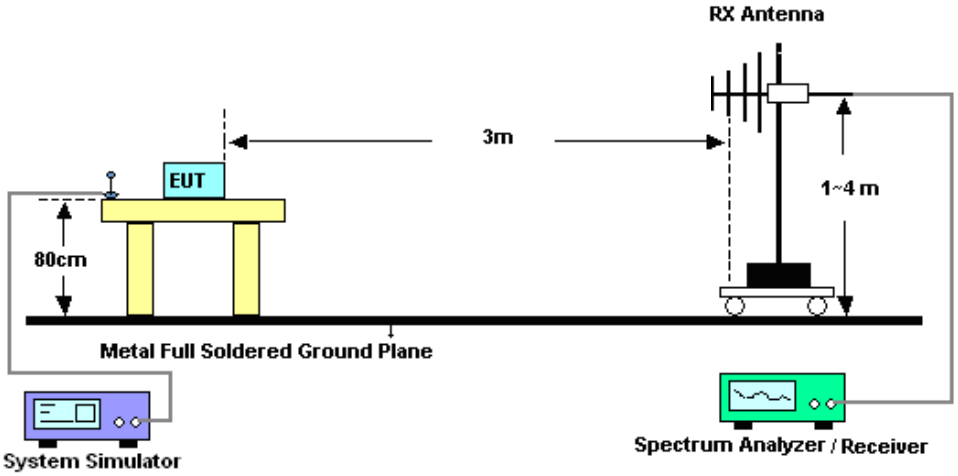
See list of measuring instruments of this test report.

## 3.2 Test Setup

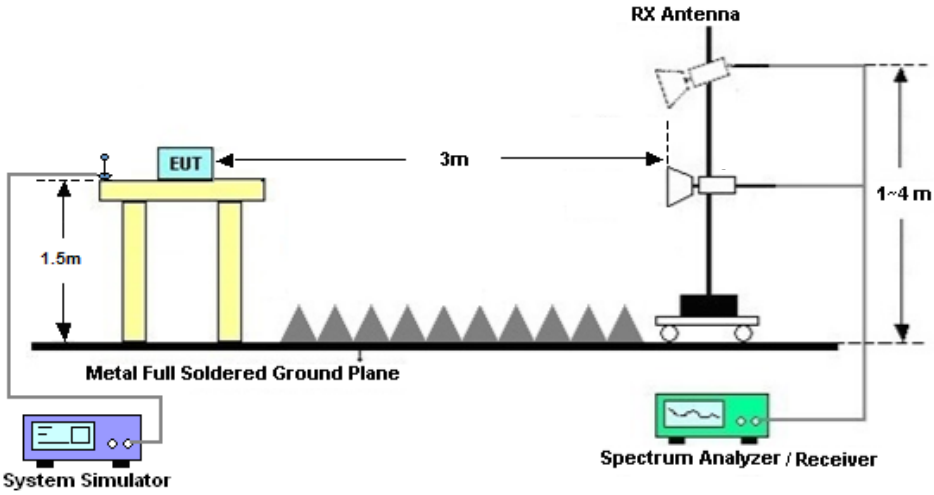
### 3.2.1 For radiated test below 30MHz




### 3.2.2 For radiated test from 30MHz to 1GHz



### 3.2.3 For radiated test above 1GHz




## 3.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.

# 3.4 Radiated Spurious Emission

## 3.4.1 Description of Radiated Spurious Emission

For 5G NR n2, n5, n25, n66, n70, n71, n77

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

For 5G NR n30

The radiated spurious emission was measured by substitution method according to ANSI/TIA-603-E. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 70 + 10 log (P) dB.

For 5G NR n41

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 55 + 10 log (P) dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

### 3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
11. ERP (dBm) = EIRP - 2.15
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
    The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.
13. For 5G NR n30:
    The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
    The limit line is derived from 70 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [70 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [70 + 10log(P)] (dB)
    = -40dBm
14. For 5G NR n41:
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)

# 4 List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|---|---|---|---|---|---|---|---|---|
| EXA Spectrum Analyzer | Keysight | N9010B | MY57471079 | 10Hz-44G,MAX 30dB | Oct. 12, 2022 | Mar. 30, 2023 | Oct. 11, 2023 | Radiation (03CH04-KS) |
| Loop Antenna | R&S | HFH2-Z2 | 100321 | 9kHz~30MHz | Oct. 29, 2022 | Mar. 30, 2023 | Oct. 28, 2023 | Radiation (03CH04-KS) |
| Bilog Antenna | TeseQ | CBL6111D | 49922 | 30MHz-1GHz | May 24, 2022 | Mar. 30, 2023 | May 23, 2023 | Radiation (03CH04-KS) |
| Horn Antenna | Schwarzbeck | BBHA9120D | 1284 | 1GHz~18GHz | Oct. 16, 2022 | Mar. 30, 2023 | Oct. 15, 2023 | Radiation (03CH04-KS) |
| SHF-EHF Horn | Com-power | AH-840 | 101070 | 18GHz~40GHz | Jan. 08, 2023 | Mar. 30, 2023 | Jan. 07, 2024 | Radiation (03CH04-KS) |
| Amplifier | SONOMA | 310N | 187289 | 9KHz-1GHz | May 24, 2022 | Mar. 30, 2023 | May 23, 2023 | Radiation (03CH04-KS) |
| Amplifier | MITEQ | EM18G40GGA | 060728 | 18~40GHz | Jan. 05, 2023 | Mar. 30, 2023 | Jan. 04, 2024 | Radiation (03CH04-KS) |
| high gain Amplifier | EM | EM01G18GA | 060840 | 1Ghz-18Ghz | Oct. 12, 2022 | Mar. 30, 2023 | Oct. 11, 2023 | Radiation (03CH04-KS) |
| Amplifier | Agilent | 8449B | 3008A02370 | 1Ghz-18Ghz | Oct. 12, 2022 | Mar. 30, 2023 | Oct. 11, 2023 | Radiation (03CH04-KS) |
| AC Power Source | Chroma | 61601 | F104090004 | N/A | NCR | Mar. 30, 2023 | NCR | Radiation (03CH04-KS) |
| Turn Table | ChamPro | EM 1000-T | 060762-T | 0~360 degree | NCR | Mar. 30, 2023 | NCR | Radiation (03CH04-KS) |
| Antenna Mast | ChamPro | EM 1000-A | 060762-A | 1 m~4 m | NCR | Mar. 30, 2023 | NCR | Radiation (03CH04-KS) |

NCR: No Calibration Required

# 5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

**Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)**

| | |
|---|---|
| **Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))** | **3.30dB** |

**Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)**

| | |
|---|---|
| **Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))** | **2.80dB** |

**Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)**

| | |
|---|---|
| **Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))** | **2.80dB** |

**---------- THE END ----------**

# Appendix A. Test Results of Radiated Test

## Radiated Spurious Emission

| Test Engineer : | Wenbo Xiao | Temperature : | 22~25℃ |
|---|---|---|---|
| | | Relative Humidity : | 48~52% |

RSE Pre-scanned harmonic for the different antenna, we choose the worst antenna combination to test.

| CA_n2A_n77A / NR 40MHz + NR 100MHz / QPSK / ANT0+4 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n2 Lowest | 3685 | -57.37 | -13 | -44.37 | -69.63 | 2.641 | 14.90 | H |
| | 5525 | -54.24 | -13 | -41.24 | -66.10 | 2.94 | 14.80 | H |
| | 7370 | -53.20 | -13 | -40.20 | -62.97 | 3.39 | 13.16 | H |
| | 3685 | -57.56 | -13 | -44.56 | -69.82 | 2.64 | 14.90 | V |
| | 5525 | -54.76 | -13 | -41.76 | -66.62 | 2.94 | 14.80 | V |
| | 7370 | -53.42 | -13 | -40.42 | -63.19 | 3.39 | 13.16 | V |
| NR n77 Lowest | 7410 | -52.89 | -13 | -39.89 | -63.10 | 3.03 | 13.24 | H |
| | 11120 | -59.64 | -13 | -46.64 | -69.09 | 3.56 | 13.01 | H |
| | 14820 | -58.19 | -13 | -45.19 | -67.71 | 3.92 | 13.44 | H |
| | 7410 | -53.42 | -13 | -40.42 | -63.63 | 3.03 | 13.24 | V |
| | 11120 | -59.82 | -13 | -46.82 | -69.27 | 3.56 | 13.01 | V |
| | 14820 | -58.17 | -13 | -45.17 | -67.69 | 3.92 | 13.44 | V |
| NR n2 Middle | 3725 | -57.28 | -13 | -44.28 | -69.54 | 2.64 | 14.90 | H |
| | 5585 | -56.30 | -13 | -43.30 | -68.16 | 2.94 | 14.80 | H |
| | 7450 | -52.97 | -13 | -39.97 | -62.74 | 3.39 | 13.16 | H |
| | 3725 | -57.37 | -13 | -44.37 | -69.63 | 2.64 | 14.90 | V |
| | 5585 | -56.33 | -13 | -43.33 | -68.19 | 2.94 | 14.80 | V |
| | 7450 | -53.33 | -13 | -40.33 | -63.10 | 3.39 | 13.16 | V |
| NR n77 Middle | 7590 | -52.80 | -13 | -39.80 | -63.01 | 3.03 | 13.24 | H |
| | 11380 | -59.74 | -13 | -46.74 | -69.19 | 3.56 | 13.01 | H |
| | 15180 | -57.70 | -13 | -44.70 | -67.22 | 3.92 | 13.44 | H |
| | 7590 | -52.80 | -13 | -39.80 | -63.01 | 3.03 | 13.24 | V |
| | 11380 | -59.39 | -13 | -46.39 | -68.84 | 3.56 | 13.01 | V |
| | 15180 | -58.02 | -13 | -45.02 | -67.54 | 3.92 | 13.44 | V |
| NR n2 Highest | 3765 | -57.34 | -13 | -44.34 | -69.60 | 2.64 | 14.90 | H |
| | 5645 | -56.31 | -13 | -43.31 | -68.17 | 2.94 | 14.80 | H |
| | 7530 | -53.04 | -13 | -40.04 | -62.81 | 3.39 | 13.16 | H |
| | 3765 | -57.50 | -13 | -44.50 | -69.76 | 2.64 | 14.90 | V |
| | 5645 | -56.64 | -13 | -43.64 | -68.50 | 2.94 | 14.80 | V |
| | 7530 | -52.70 | -13 | -39.70 | -62.47 | 3.39 | 13.16 | V |
| NR n77 Highest | 7770 | -52.65 | -13 | -39.65 | -62.86 | 3.03 | 13.24 | H |
| | 11660 | -59.00 | -13 | -46.00 | -68.45 | 3.56 | 13.01 | H |
| | 15540 | -57.82 | -13 | -44.82 | -67.34 | 3.92 | 13.44 | H |
| | 7770 | -52.62 | -13 | -39.62 | -62.83 | 3.03 | 13.24 | V |
| | 11660 | -58.88 | -13 | -45.88 | -68.33 | 3.56 | 13.01 | V |
| | 15540 | -57.85 | -13 | -44.85 | -67.37 | 3.92 | 13.44 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| CA_n5A_n77A / NR 25MHz + NR 100MHz / QPSK / ANT0+4 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n5 Lowest | 1644 | -65.88 | -13 | -52.88 | -72.85 | 1.58 | 10.70 | H |
| | 2468 | -62.05 | -13 | -49.05 | -70.30 | 2.102 | 12.50 | H |
| | 3285 | -69.51 | -13 | -56.51 | -78.40 | 2.856 | 13.90 | H |
| | 1644 | -65.36 | -13 | -52.36 | -72.33 | 1.58 | 10.70 | V |
| | 2468 | -60.01 | -13 | -47.01 | -68.26 | 2.10 | 12.50 | V |
| | 3285 | -69.36 | -13 | -56.36 | -78.25 | 2.86 | 13.90 | V |
| NR n77 Lowest | 7410 | -61.78 | -13 | -48.78 | -71.99 | 3.03 | 13.24 | H |
| | 11115 | -59.30 | -13 | -46.30 | -68.75 | 3.56 | 13.01 | H |
| | 14820 | -58.28 | -13 | -45.28 | -67.80 | 3.92 | 13.44 | H |
| | 7410 | -61.43 | -13 | -48.43 | -71.64 | 3.03 | 13.24 | V |
| | 11115 | -59.37 | -13 | -46.37 | -68.82 | 3.56 | 13.01 | V |
| | 14820 | -57.73 | -13 | -44.73 | -67.25 | 3.92 | 13.44 | V |
| NR n5 Middle | 1650 | -66.18 | -13 | -53.18 | -73.15 | 1.58 | 10.70 | H |
| | 2476 | -61.85 | -13 | -48.85 | -70.10 | 2.102 | 12.50 | H |
| | 3300 | -69.43 | -13 | -56.43 | -78.32 | 2.856 | 13.90 | H |
| | 1650 | -65.36 | -13 | -52.36 | -72.33 | 1.58 | 10.70 | V |
| | 2476 | -60.23 | -13 | -47.23 | -68.48 | 2.10 | 12.50 | V |
| | 3300 | -69.58 | -13 | -56.58 | -78.47 | 2.86 | 13.90 | V |
| NR n77 Middle | 7590 | -61.53 | -13 | -48.53 | -71.74 | 3.03 | 13.24 | H |
| | 11385 | -59.11 | -13 | -46.11 | -68.56 | 3.56 | 13.01 | H |
| | 15180 | -57.71 | -13 | -44.71 | -67.23 | 3.92 | 13.44 | H |
| | 7590 | -61.74 | -13 | -48.74 | -71.95 | 3.03 | 13.24 | V |
| | 11385 | -59.48 | -13 | -46.48 | -68.93 | 3.56 | 13.01 | V |
| | 15180 | -58.06 | -13 | -45.06 | -67.58 | 3.92 | 13.44 | V |
| NR n5 Highest | 1656 | -65.58 | -13 | -52.58 | -72.55 | 1.58 | 10.70 | H |
| | 2484 | -62.33 | -13 | -49.33 | -70.58 | 2.102 | 12.50 | H |
| | 3315 | -69.45 | -13 | -56.45 | -78.34 | 2.856 | 13.90 | H |
| | 1656 | -64.82 | -13 | -51.82 | -71.79 | 1.58 | 10.70 | V |
| | 2484 | -60.15 | -13 | -47.15 | -68.40 | 2.10 | 12.50 | V |
| | 3315 | -69.39 | -13 | -56.39 | -78.28 | 2.86 | 13.90 | V |
| NR n77 Highest | 7770 | -61.44 | -13 | -48.44 | -71.65 | 3.03 | 13.24 | H |
| | 11655 | -58.93 | -13 | -45.93 | -68.38 | 3.56 | 13.01 | H |
| | 15540 | -57.46 | -13 | -44.46 | -66.98 | 3.92 | 13.44 | H |
| | 7770 | -61.24 | -13 | -48.24 | -71.45 | 3.03 | 13.24 | V |
| | 11655 | -58.91 | -13 | -45.91 | -68.36 | 3.56 | 13.01 | V |
| | 15540 | -57.63 | -13 | -44.63 | -67.15 | 3.92 | 13.44 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| CA_n25A_n41A / NR 40MHz + NR 100MHz / QPSK / ANT0+0 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n25 Lowest | 3685 | -57.66 | -13 | -44.66 | -69.92 | 2.641 | 14.90 | H |
| | 5525 | -54.94 | -13 | -41.94 | -66.80 | 2.94 | 14.80 | H |
| | 7370 | -53.61 | -13 | -40.61 | -63.38 | 3.39 | 13.16 | H |
| | 3685 | -57.34 | -13 | -44.34 | -69.60 | 2.64 | 14.90 | V |
| | 5525 | -54.51 | -13 | -41.51 | -66.37 | 2.94 | 14.80 | V |
| | 7370 | -53.33 | -13 | -40.33 | -63.10 | 3.39 | 13.16 | V |
| NR n41 Lowest | 5000 | -55.96 | -25 | -30.96 | -66.17 | 3.03 | 13.24 | H |
| | 7505 | -53.75 | -25 | -28.75 | -63.20 | 3.56 | 13.01 | H |
| | 10000 | -61.52 | -25 | -36.52 | -71.04 | 3.92 | 13.44 | H |
| | 5000 | -55.67 | -25 | -30.67 | -65.88 | 3.03 | 13.24 | V |
| | 7505 | -53.31 | -25 | -28.31 | -62.76 | 3.56 | 13.01 | V |
| | 10000 | -61.71 | -25 | -36.71 | -71.23 | 3.92 | 13.44 | V |
| NR n25 Middle | 3730 | -57.49 | -13 | -44.49 | -69.75 | 2.64 | 14.90 | H |
| | 5095 | -56.06 | -13 | -43.06 | -67.92 | 2.94 | 14.80 | H |
| | 7460 | -53.27 | -13 | -40.27 | -63.04 | 3.39 | 13.16 | H |
| | 3730 | -57.69 | -13 | -44.69 | -69.95 | 2.64 | 14.90 | V |
| | 5095 | -56.11 | -13 | -43.11 | -67.97 | 2.94 | 14.80 | V |
| | 7460 | -53.50 | -13 | -40.50 | -63.27 | 3.39 | 13.16 | V |
| NR n41 Middle | 5595 | -55.85 | -25 | -30.85 | -66.06 | 3.03 | 13.24 | H |
| | 7645 | -52.77 | -25 | -27.77 | -62.22 | 3.56 | 13.01 | H |
| | 10190 | -60.97 | -25 | -35.97 | -70.49 | 3.92 | 13.44 | H |
| | 5095 | -56.11 | -25 | -31.11 | -66.32 | 3.03 | 13.24 | V |
| | 7645 | -52.88 | -25 | -27.88 | -62.33 | 3.56 | 13.01 | V |
| | 10190 | -60.90 | -25 | -35.90 | -70.42 | 3.92 | 13.44 | V |
| NR n25 Highest | 3775 | -58.18 | -13 | -45.18 | -70.44 | 2.64 | 14.90 | H |
| | 5660 | -56.75 | -13 | -43.75 | -68.61 | 2.94 | 14.80 | H |
| | 7550 | -53.27 | -13 | -40.27 | -63.04 | 3.39 | 13.16 | H |
| | 3775 | -57.56 | -13 | -44.56 | -69.82 | 2.64 | 14.90 | V |
| | 5660 | -55.65 | -13 | -42.65 | -67.51 | 2.94 | 14.80 | V |
| | 7550 | -53.17 | -13 | -40.17 | -62.94 | 3.39 | 13.16 | V |
| NR n41 Highest | 5190 | -55.54 | -25 | -30.54 | -65.75 | 3.03 | 13.24 | H |
| | 7785 | -52.82 | -25 | -27.82 | -62.27 | 3.56 | 13.01 | H |
| | 10380 | -60.54 | -25 | -35.54 | -70.06 | 3.92 | 13.44 | H |
| | 5190 | -55.12 | -25 | -30.12 | -65.33 | 3.03 | 13.24 | V |
| | 7785 | -52.67 | -25 | -27.67 | -62.12 | 3.56 | 13.01 | V |
| | 10380 | -60.57 | -25 | -35.57 | -70.09 | 3.92 | 13.44 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| CA_n30A_n77A / NR 10MHz + NR 100MHz / QPSK / ANT0+4 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n30 Middle | 4612 | -66.16 | -40 | -26.16 | -77.62 | 2.84 | 14.30 | H |
| | 6916 | -62.76 | -40 | -22.76 | -72.70 | 3.49 | 13.43 | H |
| | 9220 | -62.56 | -40 | -22.56 | -72.80 | 3.85 | 14.09 | H |
| | 4612 | -65.68 | -40 | -25.68 | -77.14 | 2.84 | 14.30 | V |
| | 6916 | -62.28 | -40 | -22.28 | -72.22 | 3.49 | 13.43 | V |
| | 9220 | -62.73 | -40 | -22.73 | -72.97 | 3.85 | 14.09 | V |
| NR n77 Middle | 7592 | -61.69 | -13 | -48.69 | -71.90 | 3.03 | 13.24 | H |
| | 11380 | -59.50 | -13 | -46.50 | -68.95 | 3.56 | 13.01 | H |
| | 15180 | -57.95 | -13 | -44.95 | -67.47 | 3.92 | 13.44 | H |
| | 7592 | -61.88 | -13 | -48.88 | -72.09 | 3.03 | 13.24 | V |
| | 11380 | -59.72 | -13 | -46.72 | -69.17 | 3.56 | 13.01 | V |
| | 15180 | -58.11 | -13 | -45.11 | -67.63 | 3.92 | 13.44 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| CA_n41A_n66A / NR 100MHz + NR 40MHz / QPSK / ANT0+0 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n41 Lowest | 5000 | -56.20 | -25 | -31.20 | -66.41 | 3.03 | 13.24 | H |
| | 7505 | -53.82 | -25 | -28.82 | -63.27 | 3.56 | 13.01 | H |
| | 10000 | -61.31 | -25 | -36.31 | -70.83 | 3.92 | 13.44 | H |
| | 5000 | -55.66 | -25 | -30.66 | -65.87 | 3.03 | 13.24 | V |
| | 7505 | -53.16 | -25 | -28.16 | -62.61 | 3.56 | 13.01 | V |
| | 10000 | -61.54 | -25 | -36.54 | -71.06 | 3.92 | 13.44 | V |
| NR n66 Lowest | 3425 | -58.47 | -13 | -45.47 | -69.21 | 2.604 | 13.34 | H |
| | 5135 | -56.44 | -13 | -43.44 | -66.95 | 3.011 | 13.52 | H |
| | 6850 | -55.43 | -13 | -42.43 | -65.63 | 3.271 | 13.47 | H |
| | 3425 | -58.60 | -13 | -45.60 | -69.34 | 2.604 | 13.34 | V |
| | 5135 | -56.19 | -13 | -43.19 | -66.70 | 3.011 | 13.52 | V |
| | 6850 | -54.83 | -13 | -41.83 | -65.03 | 3.271 | 13.47 | V |
| NR n41 Middle | 5095 | -56.60 | -25 | -31.60 | -66.81 | 3.03 | 13.24 | H |
| | 7645 | -52.66 | -25 | -27.66 | -62.11 | 3.56 | 13.01 | H |
| | 10190 | -60.82 | -25 | -35.82 | -70.34 | 3.92 | 13.44 | H |
| | 5095 | -56.16 | -25 | -31.16 | -66.37 | 3.03 | 13.24 | V |
| | 7645 | -52.57 | -25 | -27.57 | -62.02 | 3.56 | 13.01 | V |
| | 10190 | -61.19 | -25 | -36.19 | -70.71 | 3.92 | 13.44 | V |
| NR n66 Middle | 3455 | -58.65 | -13 | -45.65 | -69.39 | 2.604 | 13.34 | H |
| | 5180 | -56.25 | -13 | -43.25 | -66.76 | 3.011 | 13.52 | H |
| | 6910 | -55.24 | -13 | -42.24 | -65.44 | 3.271 | 13.47 | H |
| | 3455 | -58.76 | -13 | -45.76 | -69.50 | 2.604 | 13.34 | V |
| | 5180 | -55.95 | -13 | -42.95 | -66.46 | 3.011 | 13.52 | V |
| | 6910 | -54.90 | -13 | -41.90 | -65.10 | 3.271 | 13.47 | V |
| NR n41 Highest | 5190 | -55.60 | -25 | -30.60 | -65.81 | 3.03 | 13.24 | H |
| | 7785 | -52.73 | -25 | -27.73 | -62.18 | 3.56 | 13.01 | H |
| | 10380 | -60.71 | -25 | -35.71 | -70.23 | 3.92 | 13.44 | H |
| | 5190 | -55.51 | -25 | -30.51 | -65.72 | 3.03 | 13.24 | V |
| | 7785 | -52.32 | -25 | -27.32 | -61.77 | 3.56 | 13.01 | V |
| | 10380 | -60.83 | -25 | -35.83 | -70.35 | 3.92 | 13.44 | V |
| NR n66 Highest | 3485 | -58.25 | -13 | -45.25 | -68.99 | 2.604 | 13.34 | H |
| | 5225 | -53.59 | -13 | -40.59 | -64.10 | 3.011 | 13.52 | H |
| | 6970 | -55.06 | -13 | -42.06 | -65.26 | 3.271 | 13.47 | H |
| | 3485 | -58.90 | -13 | -45.90 | -69.64 | 2.604 | 13.34 | V |
| | 5225 | -54.36 | -13 | -41.36 | -64.87 | 3.011 | 13.52 | V |
| | 6970 | -54.68 | -13 | -41.68 | -64.88 | 3.271 | 13.47 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| CA_n41A_n71A / NR 100MHz + NR 20MHz / QPSK / ANT0+0 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n41 Lowest | 4995 | -62.28 | -25 | -37.28 | -72.49 | 3.03 | 13.24 | H |
| | 7500 | -61.91 | -25 | -36.91 | -71.36 | 3.56 | 13.01 | H |
| | 10005 | -61.13 | -25 | -36.13 | -70.65 | 3.92 | 13.44 | H |
| | 4995 | -62.56 | -25 | -37.56 | -72.77 | 3.03 | 13.24 | V |
| | 7500 | -61.95 | -25 | -36.95 | -71.40 | 3.56 | 13.01 | V |
| | 10005 | -61.44 | -25 | -36.44 | -70.96 | 3.92 | 13.44 | V |
| NR n71 Lowest | 1328 | -68.70 | -13 | -55.70 | -70.45 | 1.02 | 4.92 | H |
| | 1992 | -63.58 | -13 | -50.58 | -65.55 | 1.27 | 5.39 | H |
| | 2656 | -52.66 | -13 | -39.66 | -55.59 | 1.49 | 6.57 | H |
| | 1328 | -67.19 | -13 | -54.19 | -68.94 | 1.02 | 4.92 | V |
| | 1992 | -62.43 | -13 | -49.43 | -64.40 | 1.27 | 5.39 | V |
| | 2656 | -53.13 | -13 | -40.13 | -56.06 | 1.49 | 6.57 | V |
| NR n41 Middle | 5100 | -62.74 | -25 | -37.74 | -72.95 | 3.03 | 13.24 | H |
| | 7650 | -61.42 | -25 | -36.42 | -70.87 | 3.56 | 13.01 | H |
| | 10185 | -60.95 | -25 | -35.95 | -70.47 | 3.92 | 13.44 | H |
| | 5100 | -62.71 | -25 | -37.71 | -72.92 | 3.03 | 13.24 | V |
| | 7650 | -61.52 | -25 | -36.52 | -70.97 | 3.56 | 13.01 | V |
| | 10185 | -61.22 | -25 | -36.22 | -70.74 | 3.92 | 13.44 | V |
| NR n71 Middle | 1344 | -68.53 | -13 | -55.53 | -70.28 | 1.02 | 4.92 | H |
| | 2014 | -62.99 | -13 | -49.99 | -64.96 | 1.27 | 5.39 | H |
| | 2686 | -57.42 | -13 | -44.42 | -60.35 | 1.49 | 6.57 | H |
| | 1344 | -67.62 | -13 | -54.62 | -69.37 | 1.02 | 4.92 | V |
| | 2014 | -62.21 | -13 | -49.21 | -64.18 | 1.27 | 5.39 | V |
| | 2686 | -58.44 | -13 | -45.44 | -61.37 | 1.49 | 6.57 | V |
| NR n41 Highest | 5190 | -62.71 | -25 | -37.71 | -72.92 | 3.03 | 13.24 | H |
| | 7785 | -62.13 | -25 | -37.13 | -71.58 | 3.56 | 13.01 | H |
| | 10380 | -61.04 | -25 | -36.04 | -70.56 | 3.92 | 13.44 | H |
| | 5190 | -61.87 | -25 | -36.87 | -72.08 | 3.03 | 13.24 | V |
| | 7785 | -61.04 | -25 | -36.04 | -70.49 | 3.56 | 13.01 | V |
| | 10380 | -60.96 | -25 | -35.96 | -70.48 | 3.92 | 13.44 | V |
| NR n71 Highest | 1358 | -68.37 | -13 | -55.37 | -70.12 | 1.02 | 4.92 | H |
| | 2036 | -63.65 | -13 | -50.65 | -65.62 | 1.27 | 5.39 | H |
| | 2716 | -55.96 | -13 | -42.96 | -58.89 | 1.49 | 6.57 | H |
| | 1358 | -67.29 | -13 | -54.29 | -69.04 | 1.02 | 4.92 | V |
| | 2036 | -63.03 | -13 | -50.03 | -65.00 | 1.27 | 5.39 | V |
| | 2716 | -57.98 | -13 | -44.98 | -60.91 | 1.49 | 6.57 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| CA_n66A_n77A / NR 40MHz + NR 100MHz / QPSK / ANT0+4 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n66 Lowest | 3425 | -58.79 | -13 | -45.79 | -69.53 | 2.604 | 13.34 | H |
| | 5135 | -56.20 | -13 | -43.20 | -66.71 | 3.011 | 13.52 | H |
| | 6850 | -55.08 | -13 | -42.08 | -65.28 | 3.271 | 13.47 | H |
| | 3425 | -59.18 | -13 | -46.18 | -69.92 | 2.604 | 13.34 | V |
| | 5135 | -56.50 | -13 | -43.50 | -67.01 | 3.011 | 13.52 | V |
| | 6850 | -55.21 | -13 | -42.21 | -65.41 | 3.271 | 13.47 | V |
| NR n77 Lowest | 7410 | -53.46 | -13 | -40.46 | -63.67 | 3.03 | 13.24 | H |
| | 11120 | -59.49 | -13 | -46.49 | -68.94 | 3.56 | 13.01 | H |
| | 14820 | -58.13 | -13 | -45.13 | -67.65 | 3.92 | 13.44 | H |
| | 7410 | -53.78 | -13 | -40.78 | -63.99 | 3.03 | 13.24 | V |
| | 11120 | -59.53 | -13 | -46.53 | -68.98 | 3.56 | 13.01 | V |
| | 14820 | -58.15 | -13 | -45.15 | -67.67 | 3.92 | 13.44 | V |
| NR n66 Middle | 3455 | -58.66 | -13 | -45.66 | -69.40 | 2.604 | 13.34 | H |
| | 5180 | -55.73 | -13 | -42.73 | -66.24 | 3.011 | 13.52 | H |
| | 6910 | -54.87 | -13 | -41.87 | -65.07 | 3.271 | 13.47 | H |
| | 3455 | -58.93 | -13 | -45.93 | -69.67 | 2.604 | 13.34 | V |
| | 5180 | -56.10 | -13 | -43.10 | -66.61 | 3.011 | 13.52 | V |
| | 6910 | -54.92 | -13 | -41.92 | -65.12 | 3.271 | 13.47 | V |
| NR n77 Middle | 7590 | -52.51 | -13 | -39.51 | -62.72 | 3.03 | 13.24 | H |
| | 11380 | -59.83 | -13 | -46.83 | -69.28 | 3.56 | 13.01 | H |
| | 15180 | -58.04 | -13 | -45.04 | -67.56 | 3.92 | 13.44 | H |
| | 7590 | -52.45 | -13 | -39.45 | -62.66 | 3.03 | 13.24 | V |
| | 11380 | -59.35 | -13 | -46.35 | -68.80 | 3.56 | 13.01 | V |
| | 15180 | -57.66 | -13 | -44.66 | -67.18 | 3.92 | 13.44 | V |
| NR n66 Highest | 3485 | -58.62 | -13 | -45.62 | -69.36 | 2.604 | 13.34 | H |
| | 5225 | -55.55 | -13 | -42.55 | -66.06 | 3.011 | 13.52 | H |
| | 6970 | -54.70 | -13 | -41.70 | -64.90 | 3.271 | 13.47 | H |
| | 3485 | -59.20 | -13 | -46.20 | -69.94 | 2.604 | 13.34 | V |
| | 5225 | -55.58 | -13 | -42.58 | -66.09 | 3.011 | 13.52 | V |
| | 6970 | -54.80 | -13 | -41.80 | -65.00 | 3.271 | 13.47 | V |
| NR n77 Highest | 7770 | -52.43 | -13 | -39.43 | -62.64 | 3.03 | 13.24 | H |
| | 11660 | -58.77 | -13 | -45.77 | -68.22 | 3.56 | 13.01 | H |
| | 15540 | -57.80 | -13 | -44.80 | -67.32 | 3.92 | 13.44 | H |
| | 7770 | -52.09 | -13 | -39.09 | -62.30 | 3.03 | 13.24 | V |
| | 11660 | -59.13 | -13 | -46.13 | -68.58 | 3.56 | 13.01 | V |
| | 15540 | -57.74 | -13 | -44.74 | -67.26 | 3.92 | 13.44 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| CA_n26A_n66A / NR 20MHz + NR 40MHz / QPSK / ANT1+0 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n26 Lowest | 1644 | -63.84 | -13 | -50.84 | -70.81 | 1.58 | 10.70 | H |
| | 2468 | -59.80 | -13 | -46.80 | -68.05 | 2.102 | 12.50 | H |
| | 3285 | -59.57 | -13 | -46.57 | -68.46 | 2.856 | 13.90 | H |
| | 1644 | -62.67 | -13 | -49.67 | -69.64 | 1.58 | 10.70 | V |
| | 2468 | -57.76 | -13 | -44.76 | -66.01 | 2.10 | 12.50 | V |
| | 3285 | -59.75 | -13 | -46.75 | -68.64 | 2.86 | 13.90 | V |
| NR n66 Lowest | 3420 | -56.90 | -13 | -43.90 | -67.64 | 2.604 | 13.34 | H |
| | 5130 | -56.15 | -13 | -43.15 | -66.66 | 3.011 | 13.52 | H |
| | 6855 | -54.58 | -13 | -41.58 | -64.78 | 3.271 | 13.47 | H |
| | 3420 | -57.71 | -13 | -44.71 | -68.45 | 2.604 | 13.34 | V |
| | 5130 | -55.98 | -13 | -42.98 | -66.49 | 3.011 | 13.52 | V |
| | 6855 | -54.53 | -13 | -41.53 | -64.73 | 3.271 | 13.47 | V |
| NR n26 Middle | 1656 | -62.94 | -13 | -49.94 | -69.91 | 1.58 | 10.70 | H |
| | 2482 | -59.24 | -13 | -46.24 | -67.49 | 2.102 | 12.50 | H |
| | 3315 | -60.16 | -13 | -47.16 | -69.05 | 2.856 | 13.90 | H |
| | 1656 | -62.06 | -13 | -49.06 | -69.03 | 1.58 | 10.70 | V |
| | 2482 | -57.19 | -13 | -44.19 | -65.44 | 2.10 | 12.50 | V |
| | 3315 | -60.13 | -13 | -47.13 | -69.02 | 2.86 | 13.90 | V |
| NR n66 Middle | 3450 | -57.17 | -13 | -44.17 | -67.91 | 2.604 | 13.34 | H |
| | 5175 | -55.41 | -13 | -42.41 | -65.92 | 3.011 | 13.52 | H |
| | 6915 | -54.49 | -13 | -41.49 | -64.69 | 3.271 | 13.47 | H |
| | 3450 | -57.37 | -13 | -44.37 | -68.11 | 2.604 | 13.34 | V |
| | 5175 | -55.34 | -13 | -42.34 | -65.85 | 3.011 | 13.52 | V |
| | 6915 | -54.64 | -13 | -41.64 | -64.84 | 3.271 | 13.47 | V |
| NR n26 Highest | 1664 | -63.74 | -13 | -50.74 | -70.71 | 1.58 | 10.70 | H |
| | 2496 | -59.24 | -13 | -46.24 | -67.49 | 2.102 | 12.50 | H |
| | 3330 | -59.45 | -13 | -46.45 | -68.34 | 2.856 | 13.90 | H |
| | 1664 | -63.46 | -13 | -50.46 | -70.43 | 1.58 | 10.70 | V |
| | 2496 | -58.92 | -13 | -45.92 | -67.17 | 2.10 | 12.50 | V |
| | 3330 | -59.34 | -13 | -46.34 | -68.23 | 2.86 | 13.90 | V |
| NR n66 Highest | 3480 | -57.04 | -13 | -44.04 | -67.78 | 2.604 | 13.34 | H |
| | 5220 | -54.62 | -13 | -41.62 | -65.13 | 3.011 | 13.52 | H |
| | 6975 | -54.41 | -13 | -41.41 | -64.61 | 3.271 | 13.47 | H |
| | 3480 | -57.41 | -13 | -44.41 | -68.15 | 2.604 | 13.34 | V |
| | 5220 | -54.75 | -13 | -41.75 | -65.26 | 3.011 | 13.52 | V |
| | 6975 | -54.37 | -13 | -41.37 | -64.57 | 3.271 | 13.47 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| CA_n26A_n70A / NR 20MHz + NR 15MHz / QPSK / ANT0+1 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n26 Middle | 1656 | -63.31 | -13 | -50.31 | -70.28 | 1.58 | 10.70 | H |
| | 2482 | -59.95 | -13 | -46.95 | -68.20 | 2.102 | 12.50 | H |
| | 3315 | -59.85 | -13 | -46.85 | -68.74 | 2.856 | 13.90 | H |
| | 1656 | -62.48 | -13 | -49.48 | -69.45 | 1.58 | 10.70 | V |
| | 2482 | -57.95 | -13 | -44.95 | -66.20 | 2.10 | 12.50 | V |
| | 3315 | -59.96 | -13 | -46.96 | -68.85 | 2.86 | 13.90 | V |
| NR n70 Middle | 3375 | -59.01 | -13 | -46.01 | -69.75 | 2.604 | 13.34 | H |
| | 5070 | -56.44 | -13 | -43.44 | -66.95 | 3.011 | 13.52 | H |
| | 6765 | -54.63 | -13 | -41.63 | -64.83 | 3.271 | 13.47 | H |
| | 3375 | -59.31 | -13 | -46.31 | -70.05 | 2.604 | 13.34 | V |
| | 5070 | -56.84 | -13 | -43.84 | -67.35 | 3.011 | 13.52 | V |
| | 6765 | -54.99 | -13 | -41.99 | -65.19 | 3.271 | 13.47 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| CA_n70A_n71A / NR 15MHz + NR 20MHz / QPSK / ANT1+0 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n70 Middle | 3375 | -58.42 | -13 | -45.42 | -69.16 | 2.604 | 13.34 | H |
| | 5070 | -56.55 | -13 | -43.55 | -67.06 | 3.011 | 13.52 | H |
| | 6765 | -54.89 | -13 | -41.89 | -65.09 | 3.271 | 13.47 | H |
| | 3375 | -58.79 | -13 | -45.79 | -69.53 | 2.604 | 13.34 | V |
| | 5070 | -56.18 | -13 | -43.18 | -66.69 | 3.011 | 13.52 | V |
| | 6765 | -54.94 | -13 | -41.94 | -65.14 | 3.271 | 13.47 | V |
| NR n71 Middle | 1344 | -65.87 | -13 | -52.87 | -67.62 | 1.02 | 4.92 | H |
| | 2014 | -60.78 | -13 | -47.78 | -62.75 | 1.27 | 5.39 | H |
| | 2686 | -58.67 | -13 | -45.67 | -61.60 | 1.49 | 6.57 | H |
| | 1344 | -65.25 | -13 | -52.25 | -67.00 | 1.02 | 4.92 | V |
| | 2014 | -59.90 | -13 | -46.90 | -61.87 | 1.27 | 5.39 | V |
| | 2686 | -58.18 | -13 | -45.18 | -61.11 | 1.49 | 6.57 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| CA_n66A_n71A / NR 40MHz + NR 20MHz / QPSK / ANT1+0 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n66 Lowest | 3420 | -57.31 | -13 | -44.31 | -68.05 | 2.604 | 13.34 | H |
| | 5130 | -54.93 | -13 | -41.93 | -65.44 | 3.011 | 13.52 | H |
| | 6855 | -54.56 | -13 | -41.56 | -64.76 | 3.271 | 13.47 | H |
| | 3420 | -57.54 | -13 | -44.54 | -68.28 | 2.604 | 13.34 | V |
| | 5130 | -55.70 | -13 | -42.70 | -66.21 | 3.011 | 13.52 | V |
| | 6855 | -54.56 | -13 | -41.56 | -64.76 | 3.271 | 13.47 | V |
| NR n71 Lowest | 1328 | -66.46 | -13 | -53.46 | -68.21 | 1.02 | 4.92 | H |
| | 1992 | -61.20 | -13 | -48.20 | -63.17 | 1.27 | 5.39 | H |
| | 2656 | -58.94 | -13 | -45.94 | -61.87 | 1.49 | 6.57 | H |
| | 1328 | -65.41 | -13 | -52.41 | -67.16 | 1.02 | 4.92 | V |
| | 1992 | -59.99 | -13 | -46.99 | -61.96 | 1.27 | 5.39 | V |
| | 2656 | -57.88 | -13 | -44.88 | -60.81 | 1.49 | 6.57 | V |
| NR n66 Middle | 3450 | -57.22 | -13 | -43.58 | -67.32 | 2.604 | 13.34 | H |
| | 5175 | -55.28 | -13 | -42.13 | -65.64 | 3.011 | 13.52 | H |
| | 6915 | -54.52 | -13 | -41.26 | -64.46 | 3.271 | 13.47 | H |
| | 3450 | -57.49 | -13 | -44.17 | -67.91 | 2.604 | 13.34 | V |
| | 5175 | -55.05 | -13 | -42.25 | -65.76 | 3.011 | 13.52 | V |
| | 6915 | -54.63 | -13 | -41.78 | -64.98 | 3.271 | 13.47 | V |
| NR n71 Middle | 1344 | -65.96 | -13 | -52.96 | -67.71 | 1.02 | 4.92 | H |
| | 2014 | -60.42 | -13 | -47.42 | -62.39 | 1.27 | 5.39 | H |
| | 2686 | -58.39 | -13 | -45.39 | -61.32 | 1.49 | 6.57 | H |
| | 1344 | -65.17 | -13 | -52.17 | -66.92 | 1.02 | 4.92 | V |
| | 2014 | -59.88 | -13 | -46.88 | -61.85 | 1.27 | 5.39 | V |
| | 2686 | -57.91 | -13 | -44.91 | -60.84 | 1.49 | 6.57 | V |
| NR n66 Highest | 3480 | -57.27 | -13 | -44.27 | -68.01 | 2.604 | 13.34 | H |
| | 5220 | -54.39 | -13 | -41.39 | -64.90 | 3.011 | 13.52 | H |
| | 6975 | -54.19 | -13 | -41.19 | -64.39 | 3.271 | 13.47 | H |
| | 3480 | -57.30 | -13 | -44.30 | -68.04 | 2.604 | 13.34 | V |
| | 5220 | -54.79 | -13 | -41.79 | -65.30 | 3.011 | 13.52 | V |
| | 6975 | -53.89 | -13 | -40.89 | -64.09 | 3.271 | 13.47 | V |
| NR n71 Highest | 1358 | -66.05 | -13 | -53.05 | -67.80 | 1.02 | 4.92 | H |
| | 2038 | -52.58 | -13 | -39.58 | -54.55 | 1.27 | 5.39 | H |
| | 2716 | -58.60 | -13 | -45.60 | -61.53 | 1.49 | 6.57 | H |
| | 1358 | -65.43 | -13 | -52.43 | -67.18 | 1.02 | 4.92 | V |
| | 2038 | -60.29 | -13 | -47.29 | -62.26 | 1.27 | 5.39 | V |
| | 2716 | -57.82 | -13 | -44.82 | -60.75 | 1.49 | 6.57 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.