

FCC RF Test Report

APPLICANT : Datalogic S.r.l.
EQUIPMENT : MOBILE COMPUTER/BARCODE READER
BRAND NAME : DATALOGIC
MODEL NAME : CMFSNR
FCC ID : U4G-CMFSNR
STANDARD : 47 CFR Part 27 Subpart Q
CLASSIFICATION : PCS Licensed Transmitter (PCB)
TEST DATE(S) : Mar. 04, 2026 ~ Mar. 16, 2026

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



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG5O1606P	Rev. 01	Initial issue of report	Apr. 13, 2026

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	—	Report Only	-
3.5	§27.50 (k)(4)	Peak-to-Average Ratio	<13dB	PASS	
3.6	§27.50 (k)(3)	EIRP	EIRP < 1W (30dBm)	PASS	-
3.7	§2.1049	Occupied Bandwidth	—	Report Only	-
3.8	§2.1051 §27.53 (n)(2)	Conducted Band Edge Measurement	-13dBm/MHz	PASS	-
3.9	§2.1051 §27.53 (n)(2)	Conducted Spurious Emission	-13dBm/MHz	PASS	-
3.10	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within the band	PASS	-
4.4	§2.1053 §27.53 (n)(2)	Radiated Spurious Emission	-13dBm/MHz	PASS	Under limit 27.27 dB at 6900 MHz

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

1 General Description

1.1 Applicant

Datalogic S.r.l.

Via San Vitalino 13 CALDERARA DI RENO, BO 40012 Italy

1.2 Manufacturer

Datalogic S.r.l.

Via San Vitalino 13 CALDERARA DI RENO, BO 40012 Italy

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	MOBILE COMPUTER/BARCODE READER
Brand Name	DATALOGIC
Model Name	CMFSNR
FCC ID	U4G-CMFSNR
IMEI/SN Code	Conducted : 354106690007312/354106690004293 Radiation : MEHBG06001288
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Product Feature	
Tx/Rx Frequency	5G NR n77: 3450 MHz ~ 3550 MHz 5G NR n78: 3450 MHz ~ 3550 MHz
SCS	30kHz
Bandwidth	n77: 20 / 30 / 40 / 60 / 80 / 100MHz n78: 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 / 100MHz
Antenna Gain	<Ant. 4> 5G NR n77: -0.9 dBi 5G NR n78: -0.9 dBi <Ant. 5> 5G NR n77: -1.2 dBi 5G NR n78: -1.2 dBi <Ant. 6> 5G NR n77: -0.5 dBi 5G NR n78: -0.5 dBi <Ant. 7> 5G NR n77: -0.4 dBi 5G NR n78: -0.4 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Remark:

1. The maximum EIRP is calculated from max output power and max antenna gain, only the maximum EIRP is shown in the report, 5G NR n77/n78 for Antenna 7.
2. For conducted test items, only the test data of the worse Ant.4 is shown in the report according to the maximum power.
3. 5G NR n77/n78 support UL MIMO mode for Ant(7+5) which is shown in the report.
4. 5G NR n77/n78 UL_MIMO mode only supports CP-OFDM Modulation, the MIMO mode is completely uncorrelated, so the directional gain is selected the maximum gain among all antennas.
5. For UL MIMO mode, the conducted BE/Spurious are tested at single antenna port and add $10 \cdot \log(N_{\text{ANT}})$ according to KDB 662911 D01.
6. 5G NR n77/n78 support SA and NSA mode. The whole testing has assessed SA mode for n77 by referring to the higher conducted power for conducted test items.
7. The device supports HPUE(PC2) mode for 5G NR n77/n78/n77 UL MIMO/n78 UL MIMO.
8. All the supported EN-DC combinations are verified conducted power, only the EN-DC combination with highest power are shown in the report.
9. The EN-DC mode combination could be referred to the product spec.

1.5 Modification of EUT

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

1.6 Maximum EIRP Power and Emission Designator

5G NR n77 SA		PI/2 BPSK / QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
20	3460.02 ~ 3540.00	0.4581	18M2G7D	0.3690	18M3W7D
30	3465.00 ~ 3534.99	0.4742	27M8G7D	0.3793	27M9W7D
40	3470.01 ~ 3529.98	0.4831	37M8G7D	0.3908	37M9W7D
60	3480.00 ~ 3519.99	0.4519	57M8G7D	0.3656	57M9W7D
80	3490.02 ~ 3510.00	0.4603	77M4G7D	0.3715	77M4W7D
100	3500.01	0.4256	97M3G7D	0.3357	97M6W7D

5G NR n78 SA		PI/2 BPSK / QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
20	3460.02 ~ 3540.00	0.4539	18M2G7D	0.3664	18M3W7D
30	3465.00 ~ 3534.99	0.4645	27M8G7D	0.3690	27M9W7D
40	3470.01 ~ 3529.98	0.4764	37M8G7D	0.3819	37M9W7D
50	3475.02 ~ 3525.00	0.4508	47M5G7D	0.3656	47M4W7D
60	3480.00 ~ 3519.99	0.4667	57M8G7D	0.3698	57M9W7D
70	3485.01 ~ 3514.98	0.4613	67M4G7D	0.3715	67M3W7D
80	3490.02 ~ 3510.00	0.4581	77M4G7D	0.3681	77M4W7D
90	3495.00 ~ 3504.99	0.4385	87M3G7D	0.3565	87M2W7D
100	3500.01	0.4305	97M3G7D	0.3428	97M6W7D

5G NR n77 UL MIMO		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
20	3460.02 ~ 3540.00	0.3277	18M2G7D	0.2822	18M2W7D
30	3465.00 ~ 3534.99	0.3176	27M8G7D	0.2760	28M0W7D
40	3470.01 ~ 3529.98	0.3198	37M9G7D	0.2770	37M9W7D
60	3480.00 ~ 3519.99	0.3129	57M8G7D	0.2758	57M9W7D
80	3490.02 ~ 3510.00	0.3028	77M4G7D	0.2723	77M5W7D
100	3500.01	0.3145	97M4G7D	0.2649	97M5W7D

5G NR n78 UL MIMO		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
20	3460.02 ~ 3540.00	0.3484	18M2G7D	0.2980	18M2W7D
30	3465.00 ~ 3534.99	0.3378	27M8G7D	0.2928	28M0W7D
40	3470.01 ~ 3529.98	0.3519	37M9G7D	0.2960	37M9W7D
50	3475.02 ~ 3525.00	0.3207	47M5G7D	0.2846	47M4W7D
60	3480.00 ~ 3519.99	0.3271	57M8G7D	0.2898	57M9W7D
70	3485.01 ~ 3514.98	0.3375	67M5G7D	0.3066	67M4W7D
80	3490.02 ~ 3510.00	0.3233	77M4G7D	0.2849	77M5W7D
90	3495.00 ~ 3504.99	0.3240	87M3G7D	0.2811	87M5W7D
100	3500.01	0.3200	97M4G7D	0.2758	97M5W7D

Note:

1. 5G NR Band n77 overlaps the entire frequency range of Band n78, and n77 power > n78 power, therefore the conducted test results of n77 provided in this report cover n78 except for BW50,70 90.
2. All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.

1.7 Testing Site

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 Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH04-KS TH01-KS	CN1257	314309

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	03CH04-KS	AUDIX	E3	210616

1.9 Applied Standards

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

- ♦ 47 CFR Part 27 Subpart Q
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 Power Meas License Digital Systems D01 v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

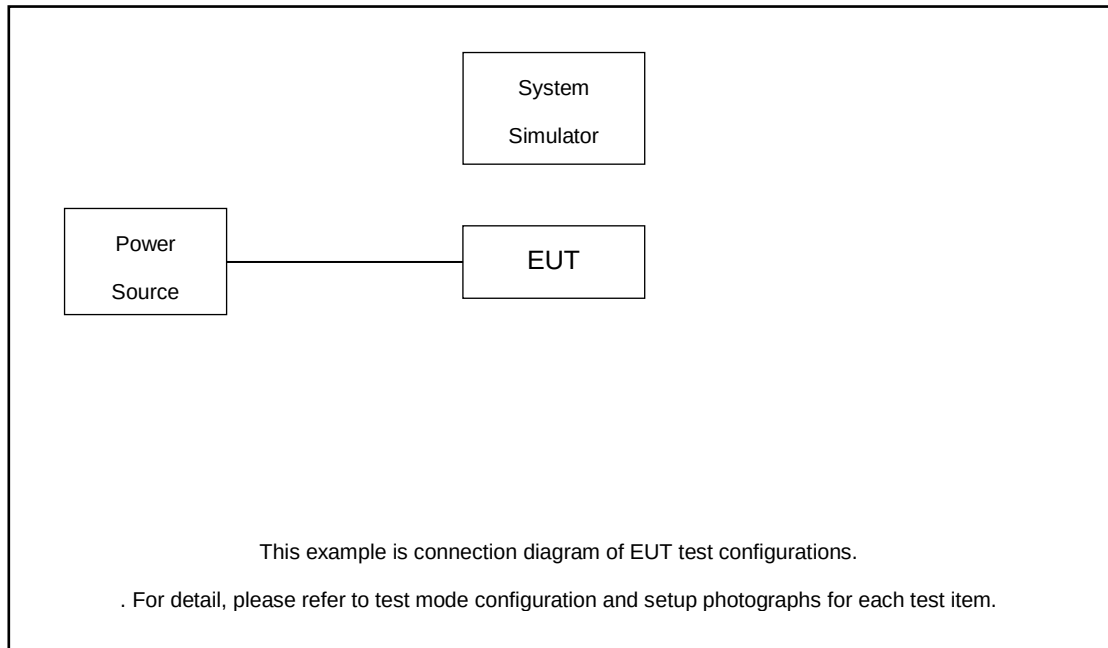
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission. (Y Plane)

Test Cases	Band	Bandwidth (MHz)	Modulation	RB #	Test Channel
		eg. 5M, 10M, 15M, 20M	eg. PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L/M/H
Max. Output Power	5G n77	20M, 30M, 40M, 60M, 80M, 100M	All Modulations	1RB, Partial RB, Full RB	L, M, H
	5G n78	20M, 30M, 40M, 50M, 60M, 70M, 80M, 90M, 100M	All Modulations	1RB, Partial RB, Full RB	L, M, H
Peak-to-Average Ratio	5G n77	20M	PI/2 BPSK, QPSK	1RB, Full RB	M
	5G n78	20M	PI/2 BPSK, QPSK	1RB, Full RB	M
E.I.R.P	5G n77	20M, 30M, 40M, 60M, 80M, 100M	All Modulations	1RB, Partial RB, Full RB	L, M, H
	5G n78	20M, 30M, 40M, 50M, 60M, 70M, 80M, 90M, 100M	All Modulations	1RB, Partial RB, Full RB	L, M, H
26dB and 99% Bandwidth	5G n77	20M, 30M, 40M, 60M, 80M, 100M	QPSK, 16QAM, 64QAM, 256QAM	Full RB	M
	5G n78	20M, 30M, 40M, 50M, 60M, 70M, 80M, 90M, 100M	QPSK, 16QAM, 64QAM, 256QAM	Full RB	M
Conducted Band Edge	5G n77	20M, 60M, 100M	PI/2 BPSK, QPSK	1RB, Full RB	L, H
	5G n78	50M, 70M, 90M	PI/2 BPSK, QPSK	1RB, Full RB	L, H
Conducted Spurious Emission	5G n77	20M, 60M, 100M	PI/2 BPSK	1RB	L, M, H
	5G n78	50M, 70M, 90M	PI/2 BPSK	1RB	L, M, H
Frequency Stability	5G n77	20M	QPSK	Full RB	M
	5G n78	20M	QPSK	Full RB	M
Radiated Spurious Emission	5G n77	Worst case from maximum power			M
	5G n78	Worst case from maximum power			M

Note:

- 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.
- Frequency Stability: Normal Voltage = 4.0V ; Low Voltage =3.55V.; High Voltage =4.4V.

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 2.5 dB and 20dB attenuator.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 2.5 + 20 = 22.5 \text{ (dB)} \end{aligned}$$

2.5 Frequency List of Low/Middle/High Channels

5G n77 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	-	633334	-
	Frequency	-	3500.01	-
80	Channel	632668	633334	634000
	Frequency	3490.02	3500.01	3510
60	Channel	632000	633334	634666
	Frequency	3480	3500.01	3519.99
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

5G n78 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	-	633334	-
	Frequency	-	3500.01	-
90	Channel	633000	633334	633666
	Frequency	3495	3500.01	3504.99
80	Channel	632668	633334	634000
	Frequency	3490.02	3500.01	3510
70	Channel	632334	633334	634332
	Frequency	3485.01	3500.01	3514.98
60	Channel	632000	633334	634666
	Frequency	3480	3500.01	3519.99
50	Channel	631668	633334	635000
	Frequency	3475.02	3500.01	3525
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

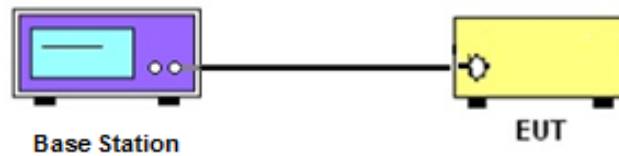
3 Conducted Test Items

3.1 Measuring Instruments

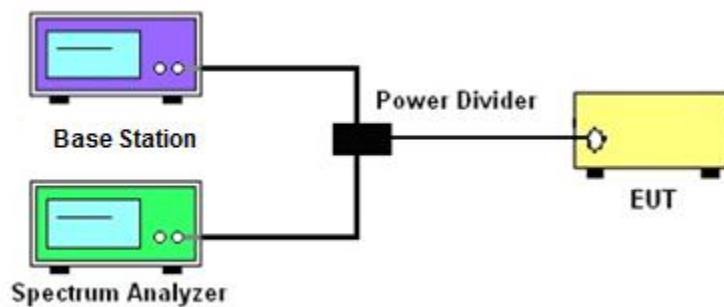
See list of measuring instruments of this test report.

3.2 Test Setup

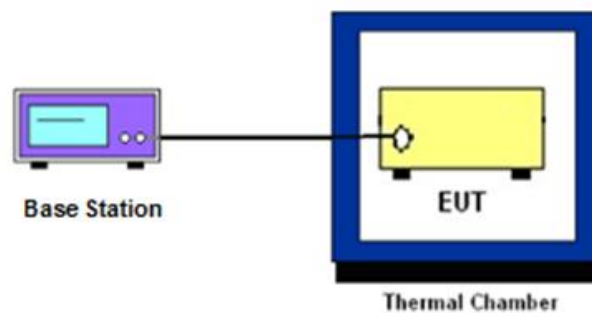
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied / 26dB Bandwidth, Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power Measurement

3.4.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

3.6 EIRP

3.6.1 Description of EIRP Limit

§ 27.50 (k)(3)

Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications

3.6.2 Test Procedures

1. According to KDB 412172 D01 Power Approach,
2. $EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where
 P_T = transmitter output power in dBm
 G_T = gain of the transmitting antenna in dBi
 L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.7 Occupied Bandwidth

3.7.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.8 Conducted Band Edge Measurement

3.8.1 Description of Conducted Band Edge Measurement

§ 27.53 (n)(2)

For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

Compliance with this paragraph is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW $\geq 1\%$ EBW but limited to a maximum of 200 kHz in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz and 5 MHz removed from the band edge, set RBW ≥ 500 KHz.
6. Beyond the 5 MHz removed from the band edge, set RBW = 1MHz.
7. Set spectrum analyzer with RMS detector.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. Checked that all the results comply with the emission limit line.

3.9 Conducted Spurious Emission Measurement

3.9.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges shall not exceed -13 dBm/MHz.

It is measured by means of a calibrated spectrum analyzer and scanned from 9 kHz up to a frequency including its 10th harmonic.

3.9.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. Checked that all the results comply with the emission limit line.

3.10 Frequency Stability Measurement

3.10.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block.

3.10.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.10.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5.
2. The EUT was placed in a temperature chamber at 20±5°C and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

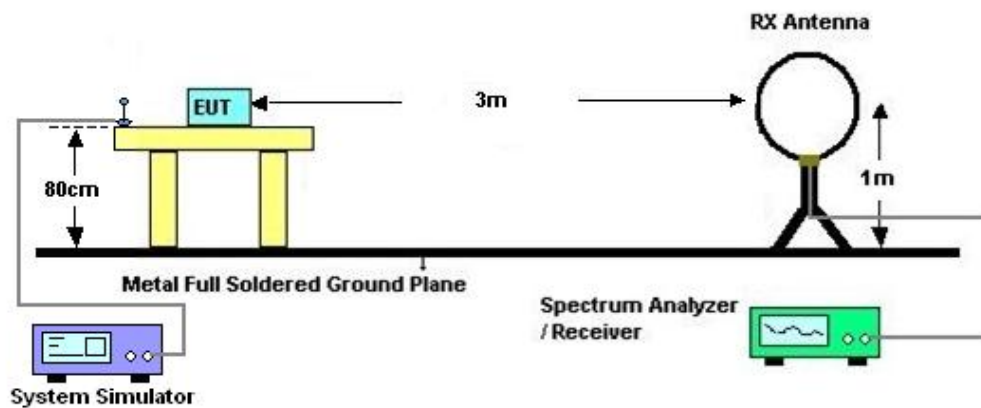
4 Radiated Test Items

4.1 Measuring Instruments

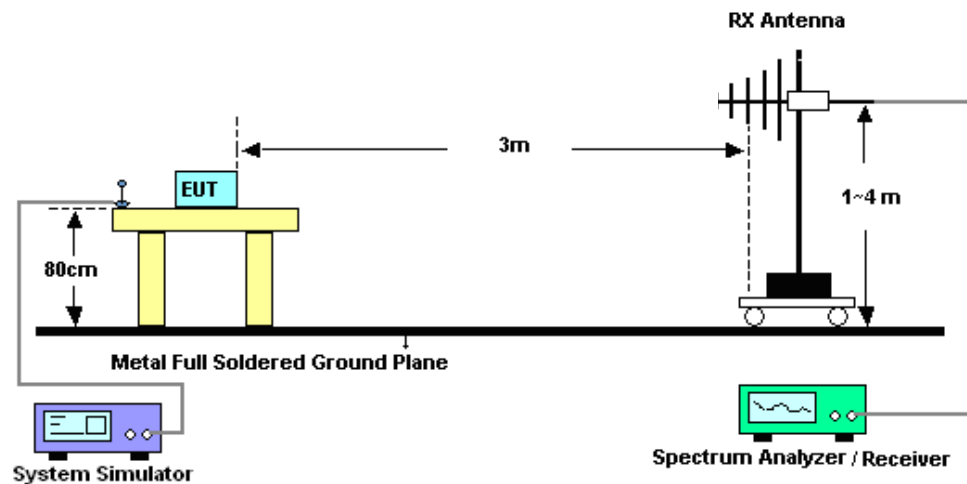
See list of measuring instruments of this test report.

4.2 Test Setup

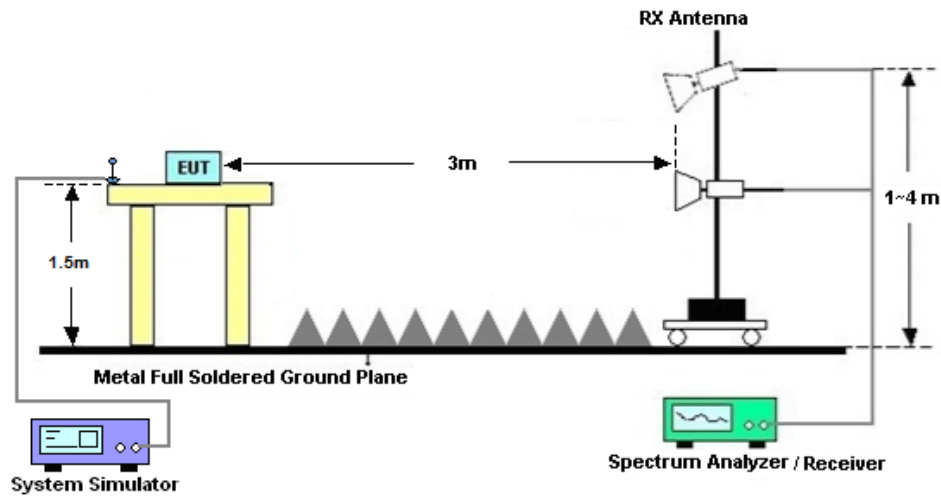
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 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.

4.4 Radiated Spurious Emission Measurement

4.4.1 Description of Radiated Spurious Emission

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 shall not exceed -13 dBm/MHz.

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

4.4.2 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.
$$\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$$
$$\text{ERP (dBm)} = \text{EIRP} - 2.15$$
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Jul. 07, 2025	Mar. 04, 2026~ Mar. 16, 2026	Jul. 06, 2026	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Mar. 04, 2026~ Mar. 16, 2026	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 02, 2025	Mar. 04, 2026~ Mar. 16, 2026	Jul. 01, 2026	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz~44G,MAX 30dB	Oct. 10, 2025	Mar. 09, 2026	Oct. 09, 2026	Radiation (03CH04-KS)
Active loop antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Aug. 10, 2025	Mar. 09, 2026	Aug. 09, 2026	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz~1GHz	Nov. 22, 2025	Mar. 09, 2026	Nov. 21, 2026	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00227860	1GHz~18GHz	Aug. 22, 2025	Mar. 09, 2026	Aug. 21, 2026	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 10, 2026	Mar. 09, 2026	Jan. 09, 2027	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	380826	9KHz~1GHz	Jul. 02, 2025	Mar. 09, 2026	Jul. 01, 2026	Radiation (03CH04-KS)
Amplifier	EM	EM18G40G A	060852	18~40GHz	Dec. 24, 2025	Mar. 09, 2026	Dec. 23, 2026	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060890	1Ghz~18Ghz	May 23, 2025	Mar. 09, 2026	May 22, 2026	Radiation (03CH04-KS)
Amplifier	EM	EM01G18G A	060892	1Ghz~18Ghz	Oct. 11, 2025	Mar. 09, 2026	Oct. 10, 2026	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Mar. 09, 2026	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Mar. 09, 2026	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Mar. 09, 2026	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

6 Measurement Uncertainty

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 Conducted Measurement

Conducted Spurious Emission & Bandedge	±2.00 dB
Occupied Channel Bandwidth	±0.384%
Conducted Power	±0.90 dB
Peak to Average Ratio	±0.90 dB
Frequency Stability	±0.38 ppm

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.83 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.83 dB
---	---------

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.82 dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

Test Engineer :	Smile Wang	Temperature :	22~23℃
		Relative Humidity :	40~42%



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Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)= -0.4 dB

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP(W)
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@1	26.81	26.41	0.4375
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	26.87	26.47	0.4436
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	25.86	25.46	0.3516
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.84	26.44	0.4406
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.81	26.41	0.4375
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.94	25.54	0.3581
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@1	26.99	26.59	0.4560
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	27.01	26.61	0.4581
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	26.07	25.67	0.3690
77	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@1	26.77	26.37	0.4335
77	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	26.86	26.46	0.4426
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	25.92	25.52	0.3565
77	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.98	26.58	0.4550
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.95	26.55	0.4519
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.00	25.60	0.3631
77	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@1	27.16	26.76	0.4742
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	27.15	26.75	0.4732
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	26.19	25.79	0.3793
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@1	26.87	26.47	0.4436
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	26.85	26.45	0.4416
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	25.94	25.54	0.3581
77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	27.24	26.84	0.4831
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.21	26.81	0.4797
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.32	25.92	0.3908
77	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@1	26.96	26.56	0.4529
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	26.98	26.58	0.4550
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	26.06	25.66	0.3681
77	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@1	26.77	26.37	0.4335
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	26.77	26.37	0.4335



77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	25.80	25.40	0.3467
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.93	26.53	0.4498
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.95	26.55	0.4519
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.03	25.63	0.3656
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@1	26.80	26.40	0.4365
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	26.78	26.38	0.4345
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	25.86	25.46	0.3516
77	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@1	26.62	26.22	0.4188
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	26.62	26.22	0.4188
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	25.72	25.32	0.3404
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.72	26.32	0.4285
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.69	26.29	0.4256
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.81	25.41	0.3475
77	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@1	27.03	26.63	0.4603
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	26.92	26.52	0.4487
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	26.10	25.70	0.3715
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.61	26.21	0.4178
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@0	22.79	22.39	0.1734
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	26.41	26.01	0.3990
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	2@0	22.96	22.56	0.1803
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	26.69	26.29	0.4256
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	2@271	22.76	22.36	0.1722
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	270@0	26.19	25.79	0.3793
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.56	26.16	0.4130
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	22.80	22.40	0.1738
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	26.37	25.97	0.3954
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	2@0	22.87	22.47	0.1766
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	26.69	26.29	0.4256
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	2@271	22.79	22.39	0.1734
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	25.62	25.22	0.3327
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.66	25.26	0.3357
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.92	23.52	0.2249
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.72	21.32	0.1355
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	270@0	24.61	24.21	0.2636
77	30	100	633334	3500.01	DFT-s-OFDM 64	270@0	24.05	23.65	0.2317



					QAM				
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	270@0	22.00	21.60	0.1445
77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	25.01	24.61	0.2891
77	30	100	633334	3500.01	CP-OFDM 16 QAM	1@1	24.54	24.14	0.2594
77	30	100	633334	3500.01	CP-OFDM 64 QAM	1@1	23.17	22.77	0.1892

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Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0018	PASS	NV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0013	PASS	LV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0007	PASS	HV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0000	PASS	-30°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0015	PASS	-20°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0022	PASS	-10°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0016	PASS	0°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0014	PASS	10°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0025	PASS	20°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0012	PASS	30°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0019	PASS	40°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0016	PASS	50°C



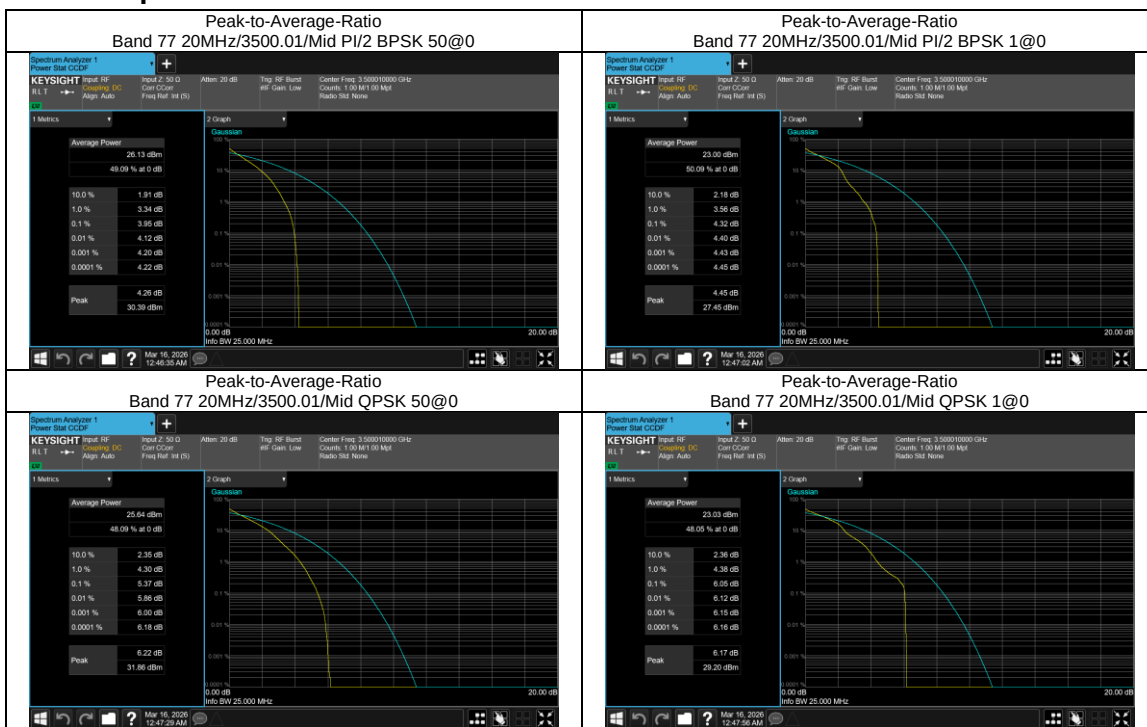
Peak to Average Ratio

Test Result

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Result	Verdict
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	3.95	13
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@0	4.32	13
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	5.37	13
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	6.05	13



Test Graphs





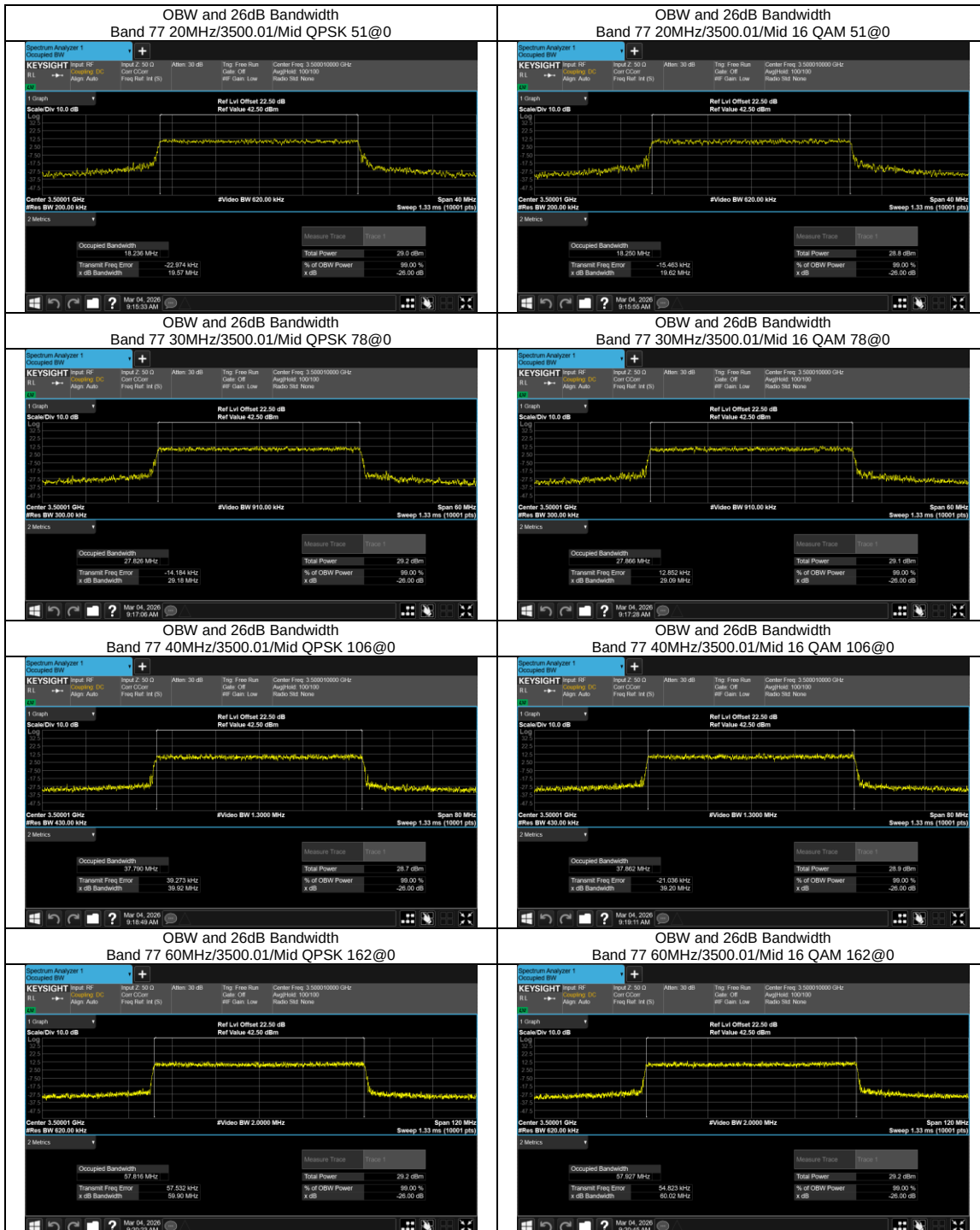
Occupied Bandwidth

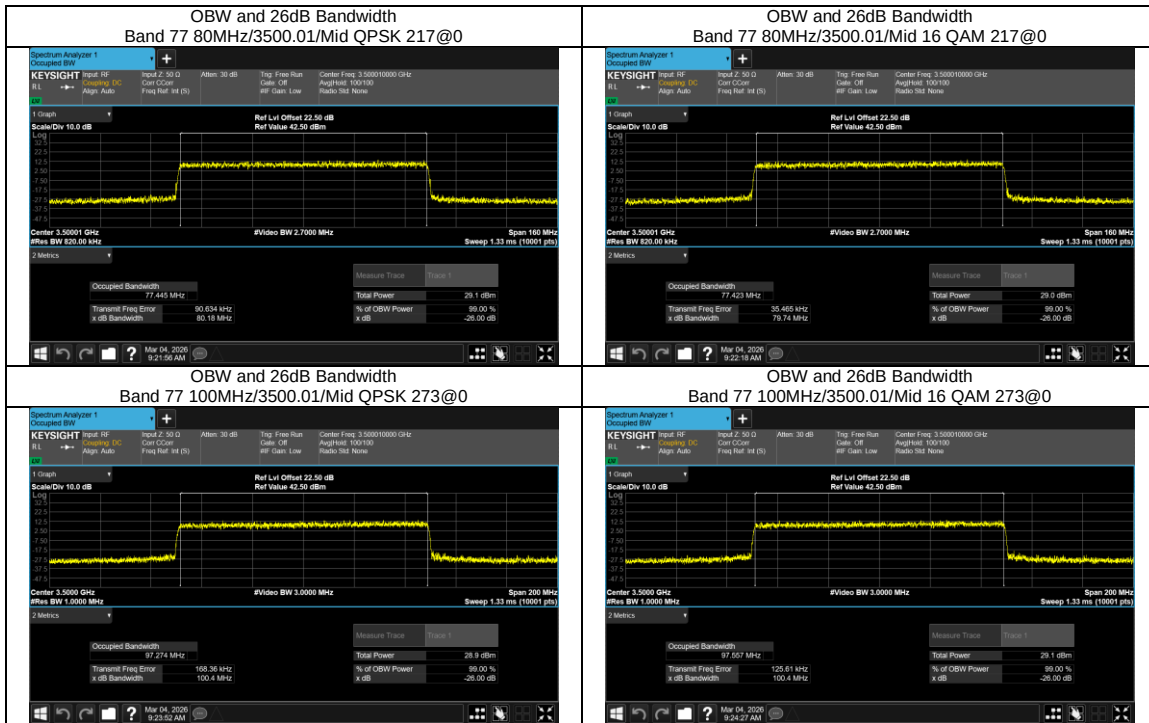
Test Result

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	OBW(MHz)	26dB OBW(MHz)
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.24	19.57
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.25	19.62
77	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.83	29.18
77	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.87	29.09
77	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.79	39.92
77	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.86	39.2
77	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.82	59.9
77	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.93	60.02
77	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.44	80.18
77	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.42	79.74
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.27	100.4
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.56	100.4



Test Graphs







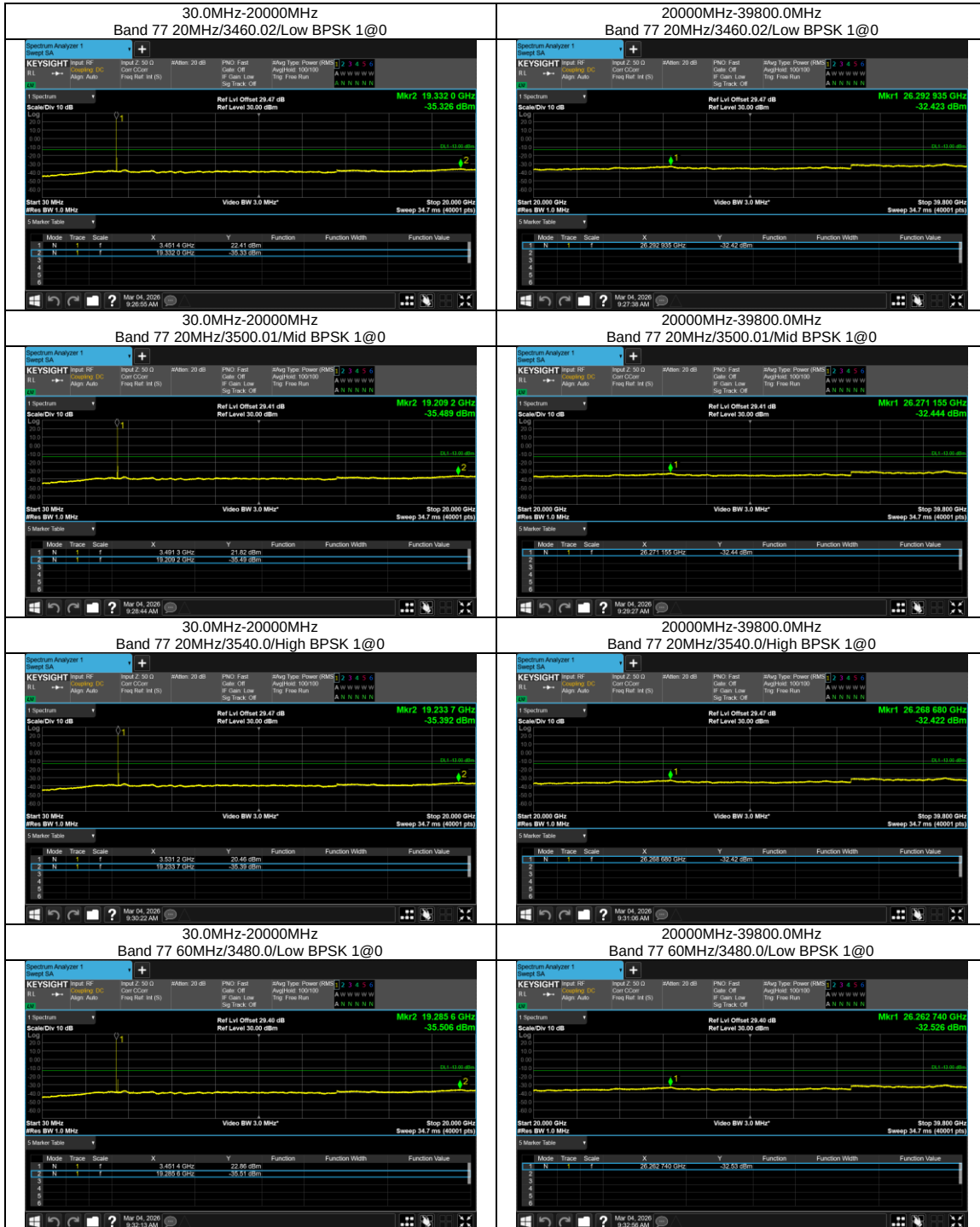
Conducted Spurious Emissions

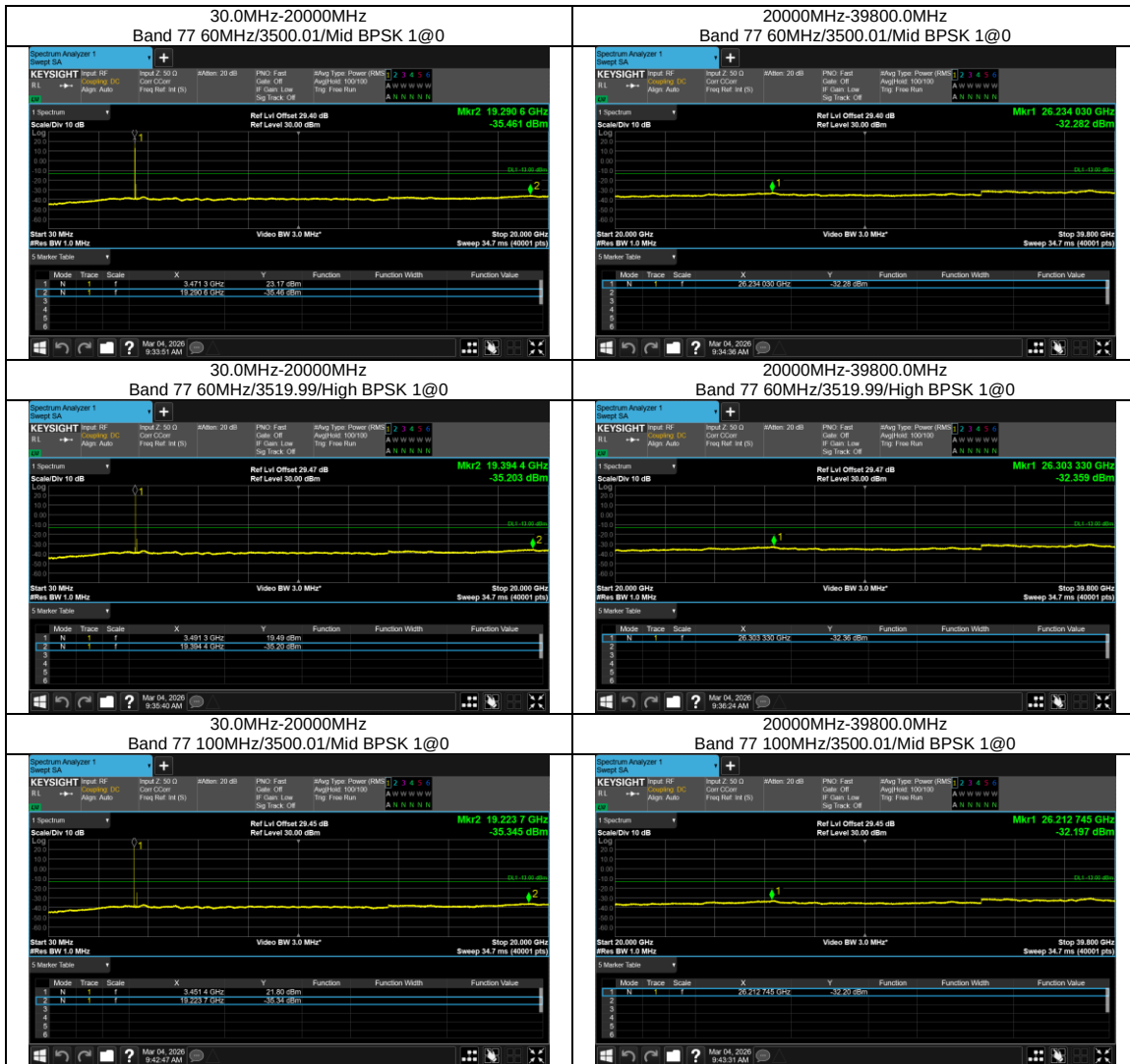
Test Result

NR Band	SCS	Band Width	Arfcn	Freq(MHz)	Modulation	RB	Result	Verdict
77	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	See graph	---
77	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	See graph	PASS
77	30	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	See graph	---
77	30	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	See graph	PASS
77	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	See graph	---
77	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	See graph	PASS
77	30	60	632000	3480.0	DFT-s-OFDM BPSK	1@0	See graph	---
77	30	60	632000	3480.0	DFT-s-OFDM BPSK	1@0	See graph	PASS
77	30	60	633334	3500.01	DFT-s-OFDM BPSK	1@0	See graph	---
77	30	60	633334	3500.01	DFT-s-OFDM BPSK	1@0	See graph	PASS
77	30	60	634666	3519.99	DFT-s-OFDM BPSK	1@0	See graph	---
77	30	60	634666	3519.99	DFT-s-OFDM BPSK	1@0	See graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	See graph	---
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	See graph	PASS



Test Graphs







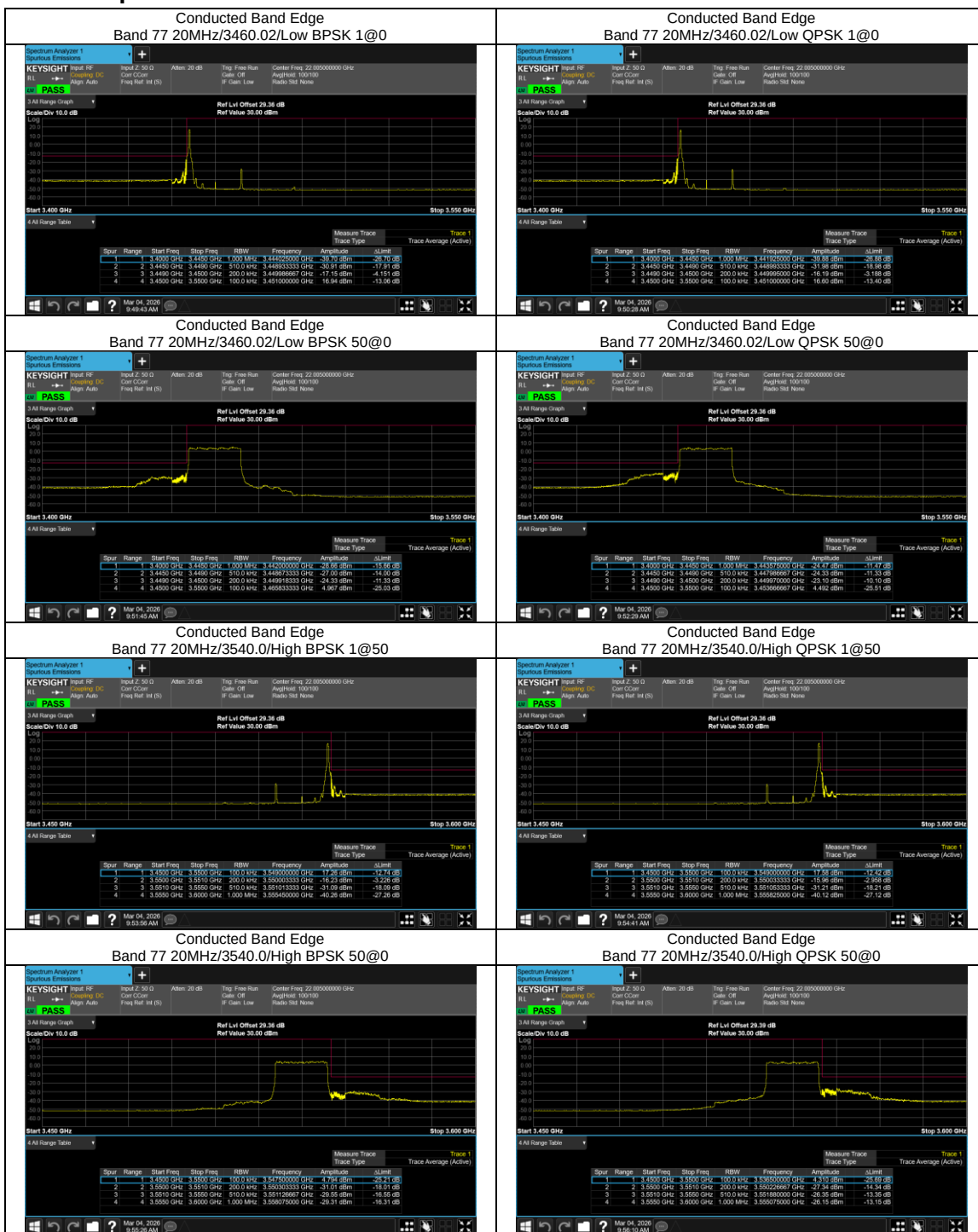
Conducted Band Edge

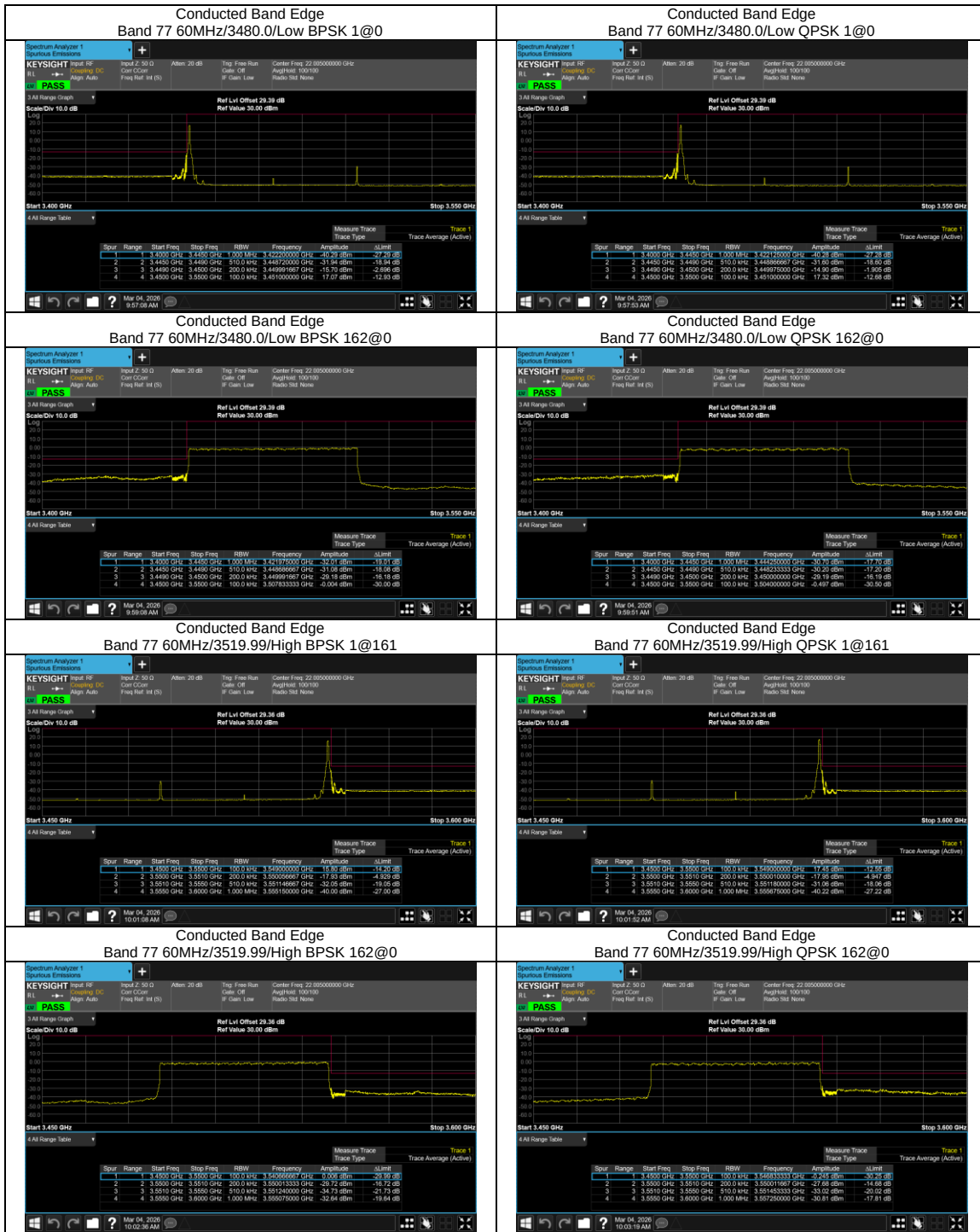
Test Result

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Result	Verdict
77	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	See graph	PASS
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	See graph	PASS
77	30	20	630668	3460.02	DFT-s-OFDM BPSK	50@0	See graph	PASS
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	50@0	See graph	PASS
77	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@50	See graph	PASS
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@50	See graph	PASS
77	30	20	636000	3540.0	DFT-s-OFDM BPSK	50@0	See graph	PASS
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	50@0	See graph	PASS
77	30	60	632000	3480.0	DFT-s-OFDM BPSK	1@0	See graph	PASS
77	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@0	See graph	PASS
77	30	60	632000	3480.0	DFT-s-OFDM BPSK	162@0	See graph	PASS
77	30	60	632000	3480.0	DFT-s-OFDM QPSK	162@0	See graph	PASS
77	30	60	634666	3519.99	DFT-s-OFDM BPSK	1@161	See graph	PASS
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@161	See graph	PASS
77	30	60	634666	3519.99	DFT-s-OFDM BPSK	162@0	See graph	PASS
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	162@0	See graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	See graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	See graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@272	See graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@272	See graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	270@0	See graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	See graph	PASS



Test Graphs









FR1 N77 MIMO_ANT7+ANT5

Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)= -0.4 dB

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	ANT7 Power(dBm)	ANT5 Power(dBm)	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
77	30	20	630668	3460.02	CP-OFDM QPSK	1@1	22.56	22.53	25.56	25.16	0.3277
77	30	20	630668	3460.02	CP-OFDM 16 QAM	1@1	21.86	21.93	24.91	24.51	0.2822
77	30	20	630668	3460.02	CP-OFDM 64 QAM	1@1	20.08	20.48	23.29	22.89	0.1948
77	30	20	633334	3500.01	CP-OFDM QPSK	1@1	22.26	22.08	25.18	24.78	0.3007
77	30	20	633334	3500.01	CP-OFDM 16 QAM	1@1	21.65	21.67	24.67	24.27	0.2673
77	30	20	633334	3500.01	CP-OFDM 64 QAM	1@1	20.46	20.04	23.27	22.87	0.1934
77	30	20	636000	3540	CP-OFDM QPSK	1@1	22.37	21.99	25.19	24.79	0.3016
77	30	20	636000	3540	CP-OFDM 16 QAM	1@1	21.75	21.32	24.55	24.15	0.2601
77	30	20	636000	3540	CP-OFDM 64 QAM	1@1	20.27	19.92	23.11	22.71	0.1866
77	30	30	631000	3465	CP-OFDM QPSK	1@1	22.23	22.58	25.42	25.02	0.3176
77	30	30	631000	3465	CP-OFDM 16 QAM	1@1	21.51	22.07	24.81	24.41	0.2760
77	30	30	631000	3465	CP-OFDM 64 QAM	1@1	20.12	20.41	23.28	22.88	0.1940
77	30	30	633334	3500.01	CP-OFDM QPSK	1@1	22.19	21.98	25.10	24.70	0.2949
77	30	30	633334	3500.01	CP-OFDM 16 QAM	1@1	21.51	21.38	24.46	24.06	0.2544
77	30	30	633334	3500.01	CP-OFDM 64 QAM	1@1	20.24	19.89	23.08	22.68	0.1853
77	30	30	635666	3534.99	CP-OFDM QPSK	1@1	22.47	22.17	25.33	24.93	0.3114
77	30	30	635666	3534.99	CP-OFDM 16 QAM	1@1	21.88	21.50	24.70	24.30	0.2694
77	30	30	635666	3534.99	CP-OFDM 64 QAM	1@1	20.48	20.04	23.28	22.88	0.1939
77	30	40	631334	3470.01	CP-OFDM QPSK	1@1	22.27	22.60	25.45	25.05	0.3198
77	30	40	631334	3470.01	CP-OFDM 16 QAM	1@1	21.52	22.09	24.82	24.42	0.2770
77	30	40	631334	3470.01	CP-OFDM 64 QAM	1@1	20.26	20.45	23.37	22.97	0.1980
77	30	40	633334	3500.01	CP-OFDM QPSK	1@1	22.30	22.36	25.34	24.94	0.3119
77	30	40	633334	3500.01	CP-OFDM 16 QAM	1@1	21.92	21.47	24.71	24.31	0.2698
77	30	40	633334	3500.01	CP-OFDM 64 QAM	1@1	20.34	20.09	23.23	22.83	0.1917
77	30	40	635332	3529.98	CP-OFDM QPSK	1@1	22.30	22.40	25.36	24.96	0.3134
77	30	40	635332	3529.98	CP-OFDM 16 QAM	1@1	21.69	21.81	24.76	24.36	0.2729



77	30	40	635332	3529.98	CP-OFDM 64 QAM	1@1	20.39	20.38	23.40	23.00	0.1993
77	30	60	632000	3480	CP-OFDM QPSK	1@1	22.15	22.53	25.35	24.95	0.3129
77	30	60	632000	3480	CP-OFDM 16 QAM	1@1	21.47	22.10	24.81	24.41	0.2758
77	30	60	632000	3480	CP-OFDM 64 QAM	1@1	20.15	20.43	23.30	22.90	0.1951
77	30	60	633334	3500.01	CP-OFDM QPSK	1@1	22.27	22.00	25.15	24.75	0.2984
77	30	60	633334	3500.01	CP-OFDM 16 QAM	1@1	21.80	21.54	24.68	24.28	0.2681
77	30	60	633334	3500.01	CP-OFDM 64 QAM	1@1	20.36	19.98	23.18	22.78	0.1899
77	30	60	634666	3519.99	CP-OFDM QPSK	1@1	22.03	22.06	25.06	24.66	0.2921
77	30	60	634666	3519.99	CP-OFDM 16 QAM	1@1	21.43	21.84	24.65	24.25	0.2661
77	30	60	634666	3519.99	CP-OFDM 64 QAM	1@1	20.13	20.50	23.33	22.93	0.1963
77	30	80	632668	3490.02	CP-OFDM QPSK	1@1	22.08	22.32	25.21	24.81	0.3028
77	30	80	632668	3490.02	CP-OFDM 16 QAM	1@1	21.34	21.70	24.53	24.13	0.2591
77	30	80	632668	3490.02	CP-OFDM 64 QAM	1@1	19.95	20.28	23.13	22.73	0.1874
77	30	80	633334	3500.01	CP-OFDM QPSK	1@1	22.04	22.30	25.18	24.78	0.3008
77	30	80	633334	3500.01	CP-OFDM 16 QAM	1@1	21.78	21.70	24.75	24.35	0.2723
77	30	80	633334	3500.01	CP-OFDM 64 QAM	1@1	19.99	20.71	23.38	22.98	0.1984
77	30	80	634000	3510	CP-OFDM QPSK	1@1	22.34	22.02	25.19	24.79	0.3015
77	30	80	634000	3510	CP-OFDM 16 QAM	1@1	21.78	21.40	24.60	24.20	0.2633
77	30	80	634000	3510	CP-OFDM 64 QAM	1@1	20.21	20.00	23.12	22.72	0.1869
77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	22.05	22.66	25.38	24.98	0.3145
77	30	100	633334	3500.01	CP-OFDM QPSK	1@0	19.78	20.25	23.03	22.63	0.1833
77	30	100	633334	3500.01	CP-OFDM QPSK	1@271	21.96	21.80	24.89	24.49	0.2813
77	30	100	633334	3500.01	CP-OFDM QPSK	2@0	19.88	20.61	23.27	22.87	0.1937
77	30	100	633334	3500.01	CP-OFDM QPSK	137@68	22.17	21.99	25.09	24.69	0.2945
77	30	100	633334	3500.01	CP-OFDM QPSK	2@271	19.75	19.64	22.71	22.31	0.1700
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	20.40	20.27	23.35	22.95	0.1971
77	30	100	633334	3500.01	CP-OFDM 16 QAM	1@1	21.39	21.84	24.63	24.23	0.2649
77	30	100	633334	3500.01	CP-OFDM 64 QAM	1@1	20.03	20.78	23.43	23.03	0.2010
77	30	100	633334	3500.01	CP-OFDM 256 QAM	1@1	17.35	17.53	20.45	20.05	0.1012
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	20.47	20.33	23.41	23.01	0.2000
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	20.85	20.74	23.81	23.41	0.2191



					QAM						
77	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	20.32	19.85	23.10	22.70	0.1863
77	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	17.48	16.98	20.25	19.85	0.0965

**FR1 N77 MIMO_ANT5****Frequency Stability**

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0016	PASS	NV
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0014	PASS	LV
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0008	PASS	HV
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0000	PASS	-30°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0013	PASS	-20°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0018	PASS	-10°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0017	PASS	0°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0013	PASS	10°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0022	PASS	20°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0017	PASS	30°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0016	PASS	40°C
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	0.0014	PASS	50°C



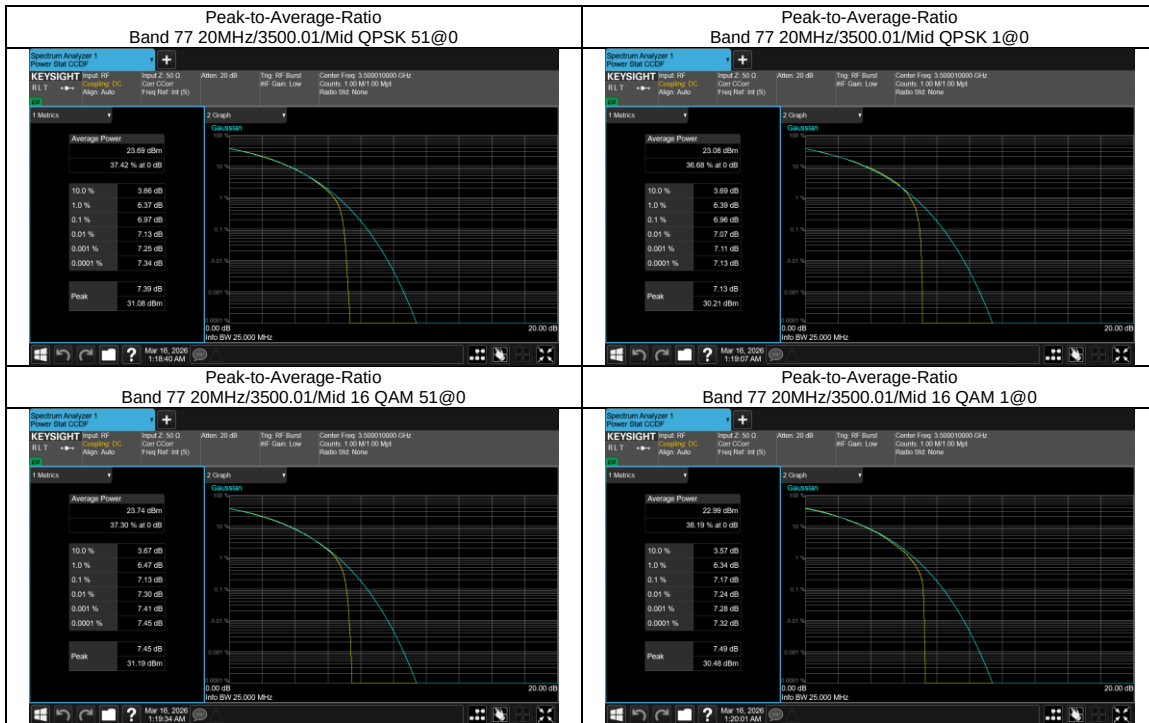
Peak to Average Ratio

Test Result

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Result	Verdict
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	6.97	13
77	30	20	633334	3500.01	CP-OFDM QPSK	1@0	6.96	13
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	7.13	13
77	30	20	633334	3500.01	CP-OFDM 16 QAM	1@0	7.17	13



Test Graphs



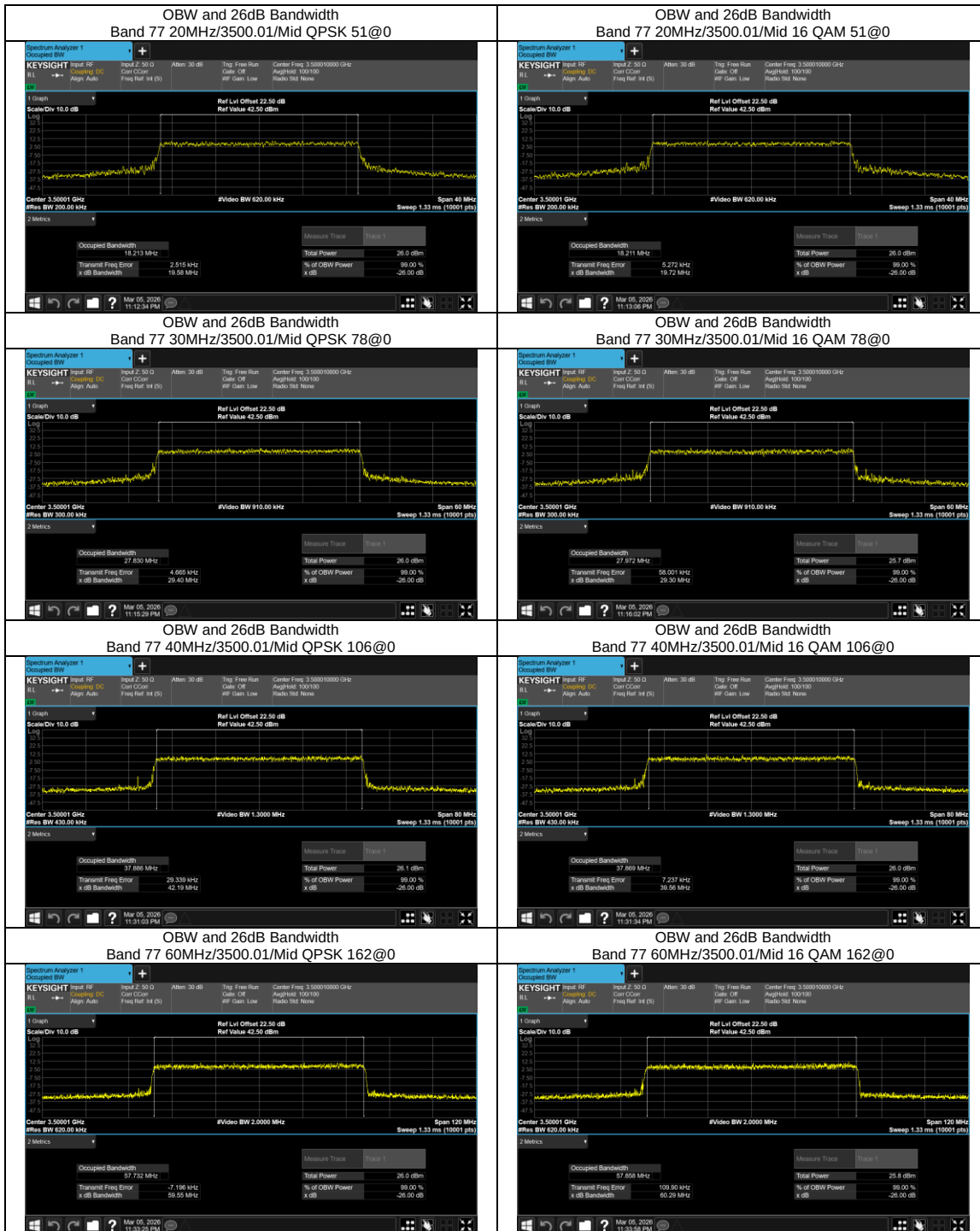
Occupied Bandwidth

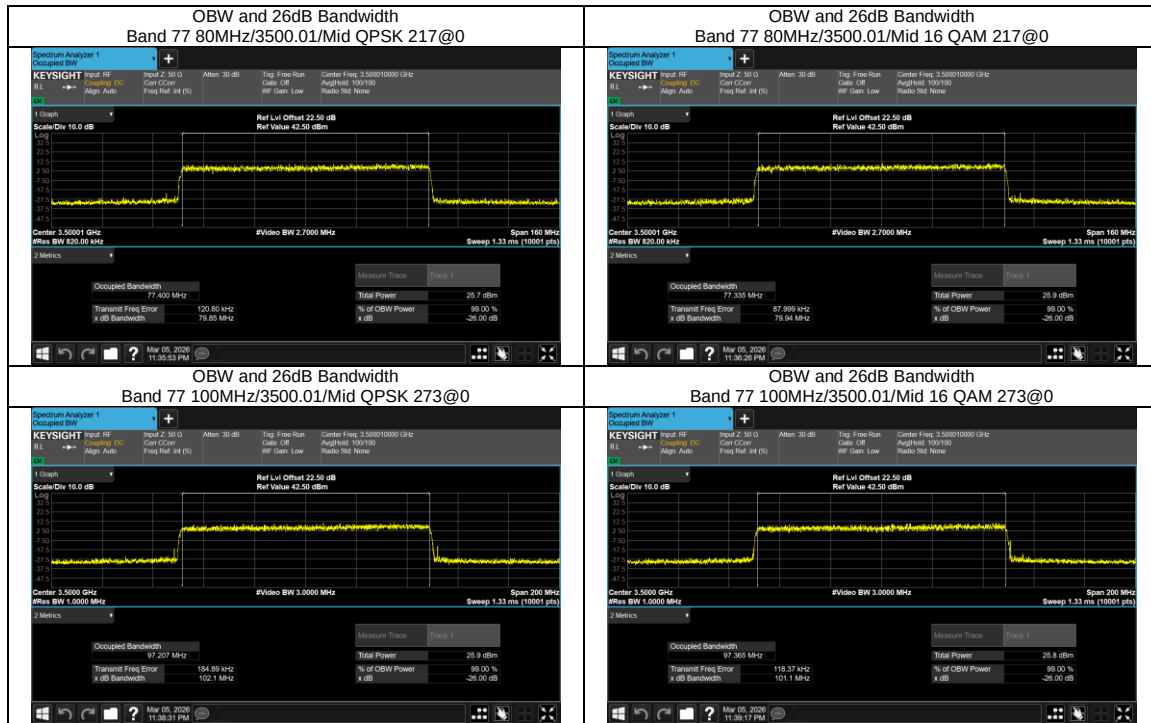
Test Result

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	OBW(MHz)	26dB OBW(MHz)
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.21	19.58
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.21	19.72
77	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.83	29.4
77	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.97	29.3
77	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.89	42.19
77	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.87	39.56
77	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.73	59.55
77	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.86	60.29
77	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.4	79.85
77	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.33	79.94
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.21	102.1
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.37	101.1



Test Graphs





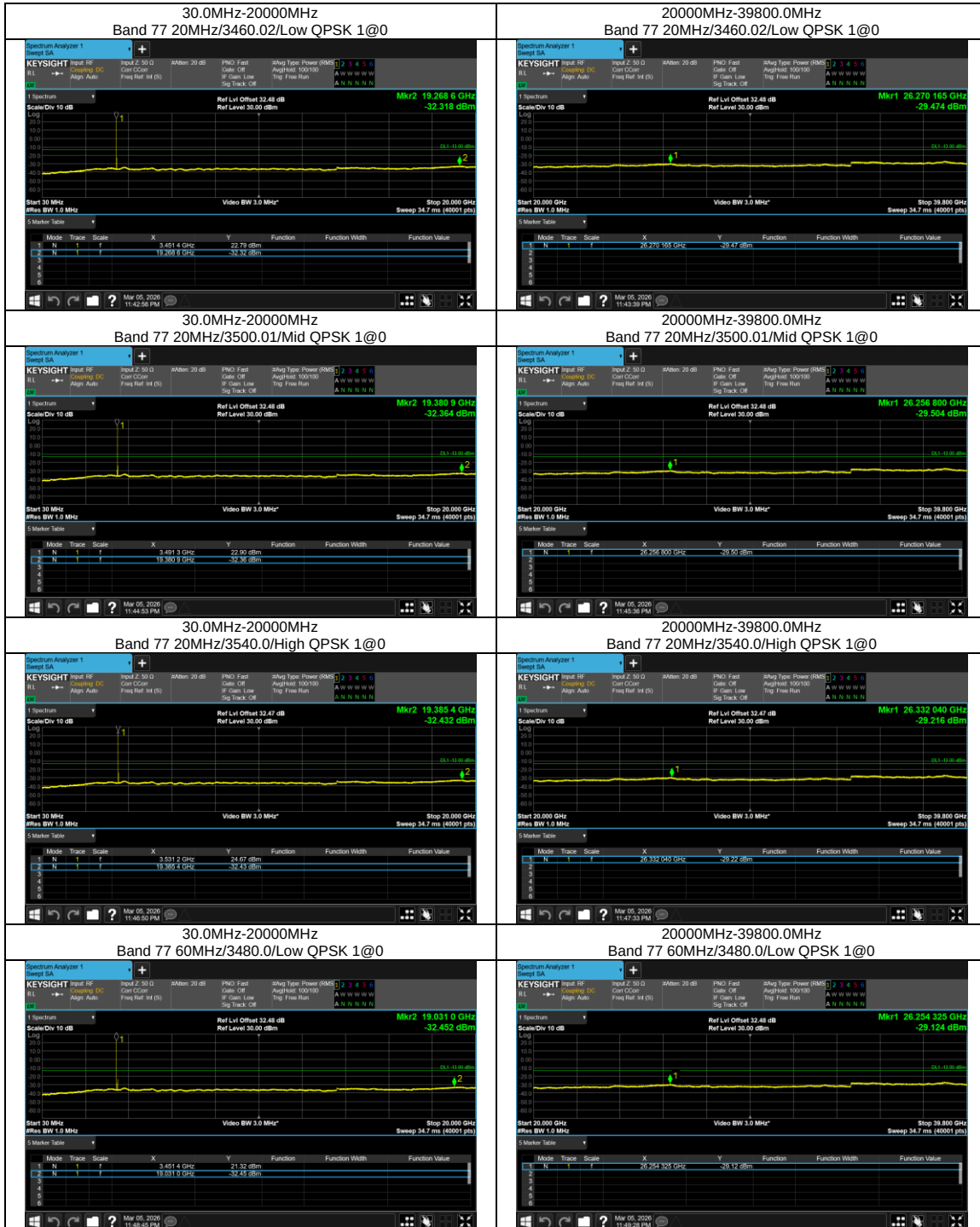
Conducted Spurious Emissions

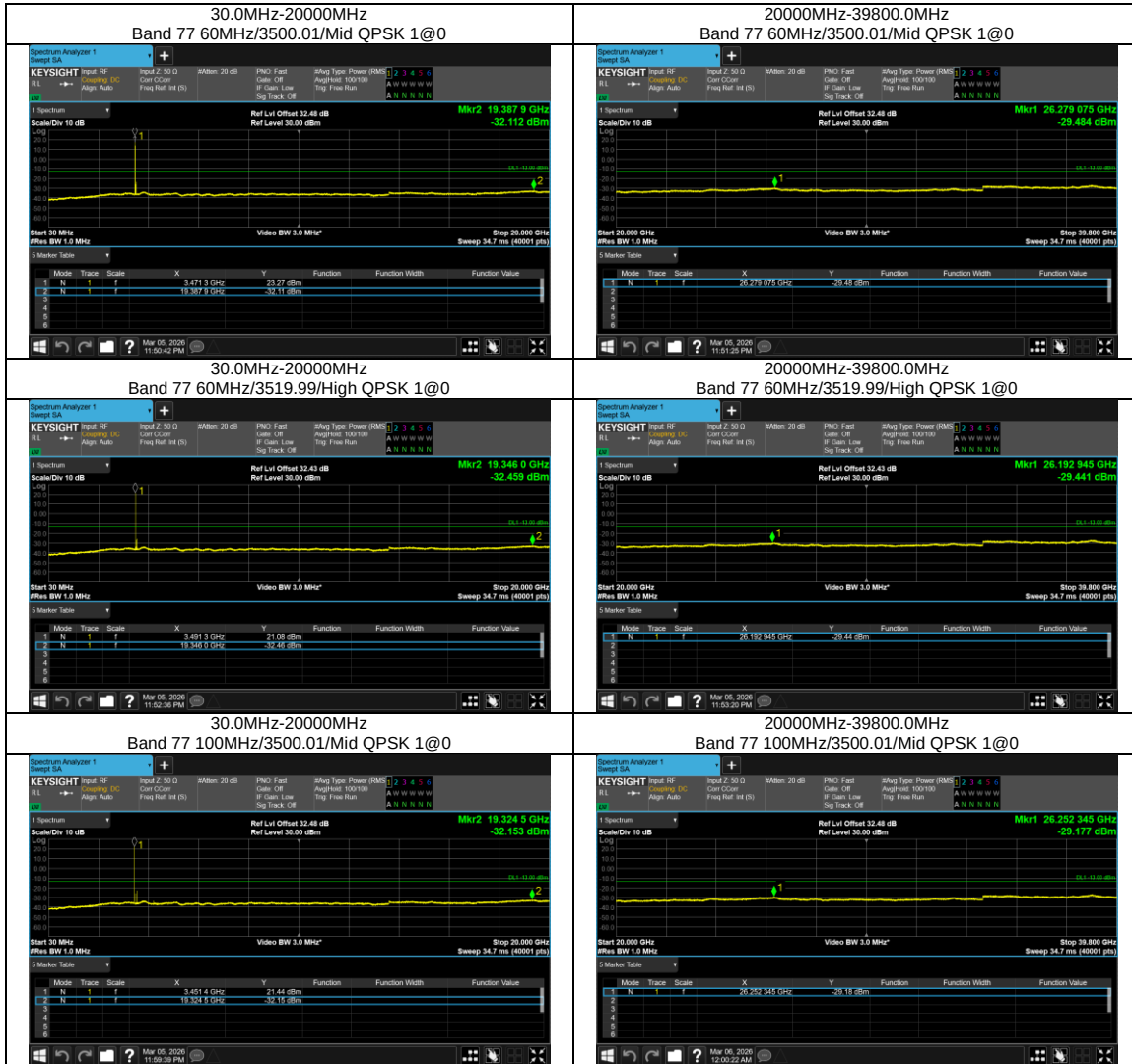
Test Result

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Result	Verdict
77	30	20	630668	3460.02	CP-OFDM QPSK	1@0	See graph	---
77	30	20	630668	3460.02	CP-OFDM QPSK	1@0	See graph	PASS
77	30	20	633334	3500.01	CP-OFDM QPSK	1@0	See graph	---
77	30	20	633334	3500.01	CP-OFDM QPSK	1@0	See graph	PASS
77	30	20	636000	3540.0	CP-OFDM QPSK	1@0	See graph	---
77	30	20	636000	3540.0	CP-OFDM QPSK	1@0	See graph	PASS
77	30	60	632000	3480.0	CP-OFDM QPSK	1@0	See graph	---
77	30	60	632000	3480.0	CP-OFDM QPSK	1@0	See graph	PASS
77	30	60	633334	3500.01	CP-OFDM QPSK	1@0	See graph	---
77	30	60	633334	3500.01	CP-OFDM QPSK	1@0	See graph	PASS
77	30	60	634666	3519.99	CP-OFDM QPSK	1@0	See graph	---
77	30	60	634666	3519.99	CP-OFDM QPSK	1@0	See graph	PASS
77	30	100	633334	3500.01	CP-OFDM QPSK	1@0	See graph	---
77	30	100	633334	3500.01	CP-OFDM QPSK	1@0	See graph	PASS



Test Graphs







Conducted Band Edge

Test Result

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Result	Verdict
77	30	20	630668	3460.02	CP-OFDM QPSK	1@0	See graph	PASS
77	30	20	630668	3460.02	CP-OFDM 16 QAM	1@0	See graph	PASS
77	30	20	630668	3460.02	CP-OFDM QPSK	51@0	See graph	PASS
77	30	20	630668	3460.02	CP-OFDM 16 QAM	51@0	See graph	PASS
77	30	20	636000	3540.0	CP-OFDM QPSK	1@50	See graph	PASS
77	30	20	636000	3540.0	CP-OFDM 16 QAM	1@50	See graph	PASS
77	30	20	636000	3540.0	CP-OFDM QPSK	51@0	See graph	PASS
77	30	20	636000	3540.0	CP-OFDM 16 QAM	51@0	See graph	PASS
77	30	60	632000	3480.0	CP-OFDM QPSK	1@0	See graph	PASS
77	30	60	632000	3480.0	CP-OFDM 16 QAM	1@0	See graph	PASS
77	30	60	632000	3480.0	CP-OFDM QPSK	162@0	See graph	PASS
77	30	60	632000	3480.0	CP-OFDM 16 QAM	162@0	See graph	PASS
77	30	60	634666	3519.99	CP-OFDM QPSK	1@161	See graph	PASS
77	30	60	634666	3519.99	CP-OFDM 16 QAM	1@161	See graph	PASS
77	30	60	634666	3519.99	CP-OFDM QPSK	162@0	See graph	PASS
77	30	60	634666	3519.99	CP-OFDM 16 QAM	162@0	See graph	PASS
77	30	100	633334	3500.01	CP-OFDM QPSK	1@0	See graph	PASS
77	30	100	633334	3500.01	CP-OFDM 16 QAM	1@0	See graph	PASS
77	30	100	633334	3500.01	CP-OFDM QPSK	1@272	See graph	PASS
77	30	100	633334	3500.01	CP-OFDM 16 QAM	1@272	See graph	PASS
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	See graph	PASS
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	See graph	PASS



Test Graphs

