

FCC RF Test Report

APPLICANT : Xiaomi Communications Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : Redmi
MODEL NAME : 22031116BG
FCC ID : 2AFZZ116BG
STANDARD : 47 CFR Part 2, Part 27 Subpart Q
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Jan. 16, 2022 ~ Jan. 28, 2022

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.

This report contains data that were produced under subcontract by Sporton International Inc. (Shenzhen)

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.

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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 35.76 dB at 10356.00 MHz

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

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Manufacturer

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	Redmi
Model Name	22031116BG
FCC ID	2AFZZ116BG
IMEI Code	Conducted : 861408060016089/861408060013904 Radiation : 861408060017186/861408060017194
HW Version	P1
SW Version	MIUI13
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
Bandwidth	SCS 15KHz: 10MHz / 15MHz / 20MHz / 40MHz / 50MHz SCS 30KHz: 10MHz / 15MHz / 20MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz
SCS	15kHz /30kHz
Antenna Gain	<Ant. 1>: 5G NR n77 : -3.2 dBi 5G NR n78 : -3.2 dBi <Ant. 3>: 5G NR n77 : -4.8 dBi 5G NR n78 : -5.5 dBi <Ant. 5>: 5G NR n77 : -1.3 dBi 5G NR n78 : -1.5 dBi <Ant. 8>: 5G NR n77 : -4.1 dBi 5G NR n78 : -4.1 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Note:

1. The EIRP is calculated from output power and antenna gain, only the maximum EIRP of n77/n78 for Antenna 5 are shown in the report.
2. 5G NR Bands support SA and NSA mode for SCS 15kHz/30kHz. According to the maximum power between SA and NSA mode, NSA covers SA mode for SCS 15kHz/30kHz and 5G NR n78 covers n77 for all test items.
3. 5G NR n77/n78 support HPUE.
4. 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 n77/78(15kHz) (EN DC_2A-n78A)		BPSK/QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3455.01 ~ 3544.995	0.2958	9M28G7D	0.2382	9M29W7D
15	3457.5 ~ 3542.49	0.3097	14M1G7D	0.2466	14M1W7D
20	3460.005 ~ 3540	0.3105	18M9G7D	0.2455	18M9W7D
40	3470.01 ~ 3529.995	0.3097	38M6G7D	0.2506	38M5W7D
50	3475.005 ~ 3525	0.3083	48M3G7D	0.2506	48M1W7D

5G NR n77/78(30kHz) (EN DC_2A-n78A)		BPSK/QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3455.01 ~ 3544.98	0.2871	8M57G7D	0.2307	8M58W7D
15	3457.5 ~ 3542.49	0.2924	13M6G7D	0.2323	13M6W7D
20	3460.02 ~ 3540	0.2965	18M2G7D	0.2339	18M2W7D
40	3470.01 ~ 3529.98	0.3006	37M9G7D	0.2410	37M8W7D
50	3475.02 ~ 3525	0.3006	47M4G7D	0.2410	47M5W7D
60	3480 ~ 3519.99	0.3048	57M9G7D	0.2415	57M8W7D
70	3485.01 ~ 3514.98	0.3034	67M4G7D	0.2432	67M4W7D
80	3490.02 ~ 3510	0.3034	78M4G7D	0.2432	78M5W7D
90	3495 ~ 3504.99	0.3055	87M4G7D	0.2410	87M4W7D
100	3500.01 ~ 3500.01	0.2992	97M3G7D	0.2388	97M6W7D

Note: All modulations (BPSK/QPSK/16QAM/64QAM/256QAM) 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 FAX : +86-512-57900958		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH04-KS	CN1257	314309

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ	CN1256	421272

Test data subcontracted: conducted test items in section 3 of this report.

1.8 Test Software

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



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 2, 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.

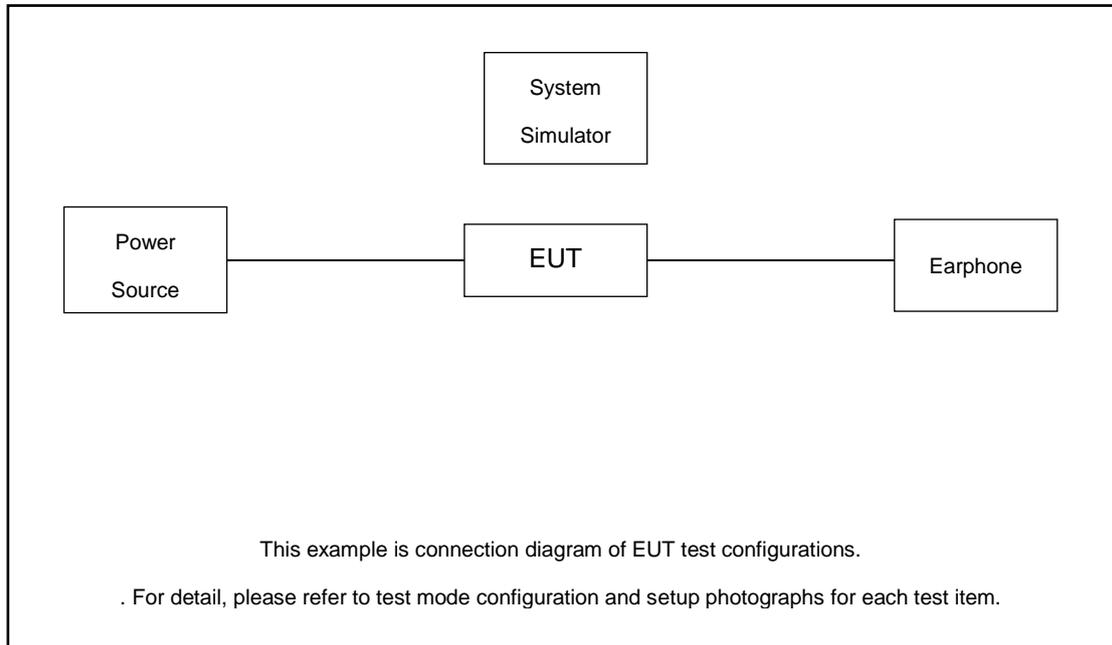
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

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

Note:

1. 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. 5G NR n77 overlaps the entire frequency range of n78, Therefore, the test results provided in this report covers n77 as well as n78.
3. Based on engineering evaluation, only the worst modulations test results are shown in the report.
4. For modulation of CP-OFDM and DFT-s-OFDM, the maximum power of CP-OFDM is lower than DFT-s-OFDM modulation, therefore, we chose higher power (DFT-s-OFDM modulation) to perform all tests and show in the report.

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	MT8820/8821	N/A	N/A	Unshielded, 1.8 m
3.	Earphone	Xiaomi	N/A	N/A	Unshielded, 1.2m	N/A

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 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.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 5.0 dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 5.0 \text{ (dB)} \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

5G n77/n78 Channel and Frequency List for SCS 15kHz				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
50	Channel	631667	633334	635000
	Frequency	3475.005	3500.01	3525.00
40	Channel	631334	633334	635333
	Frequency	3470.01	3500.01	3529.995
20	Channel	630667	633334	636000
	Frequency	3460.005	3500.01	3540.00
15	Channel	630500	633334	636166
	Frequency	3457.5	3500.01	3542.49
10	Channel	630334	633334	636333
	Frequency	3455.01	3500.01	3544.995



5G n77/n78 Channel and Frequency List for SCS 30kHz				
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
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

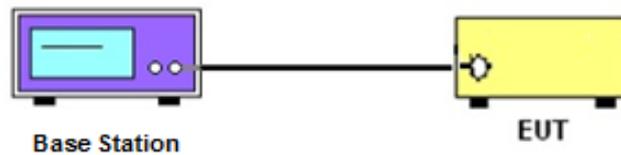
3 Conducted Test Items

3.1 Measuring Instruments

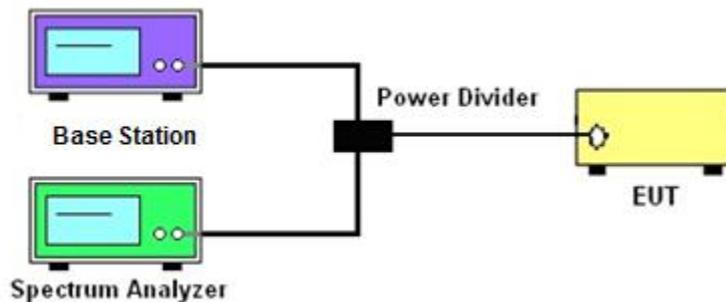
See list of measuring instruments of this test report.

3.2 Test Setup

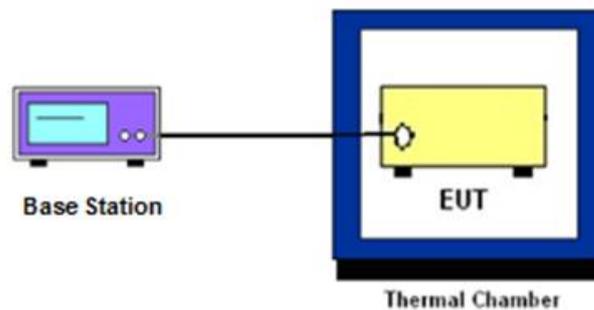
3.2.1 Conducted Output Power



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 \geq 500KHz.
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 $20\pm 5^{\circ}\text{C}$ 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.

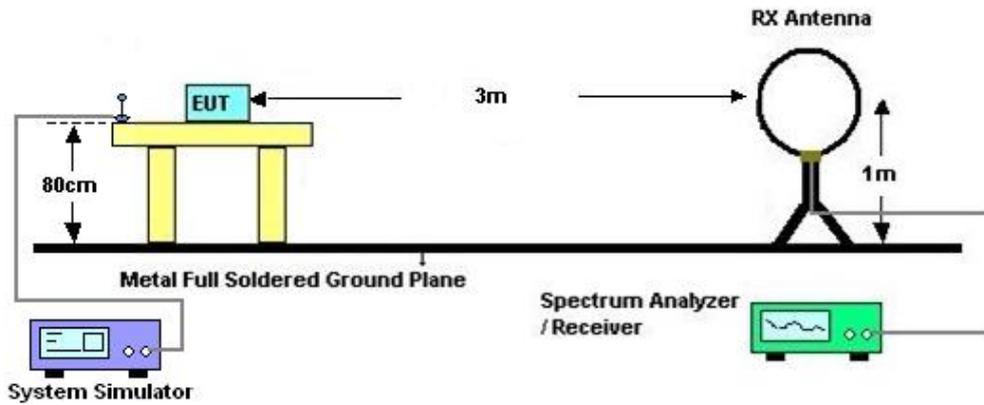
4 Radiated Test Items

4.1 Measuring Instruments

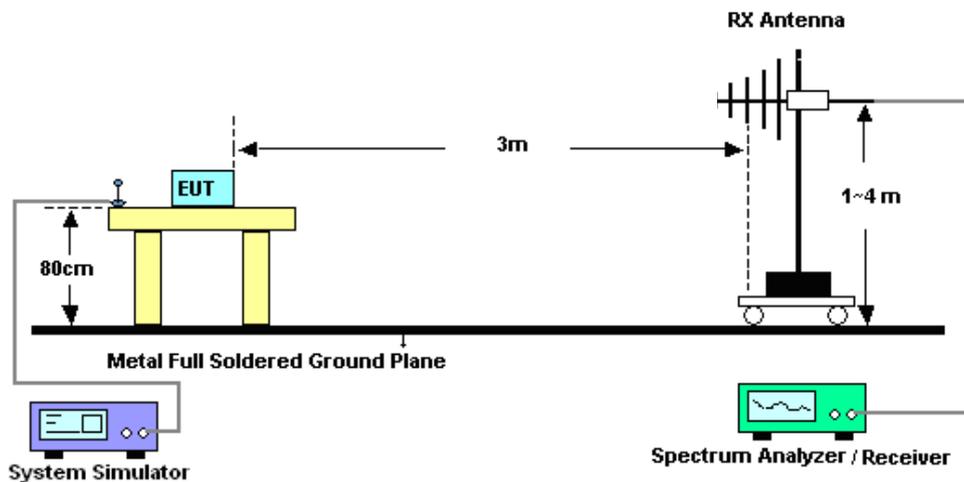
See list of measuring instruments of this test report.

4.2 Test Setup

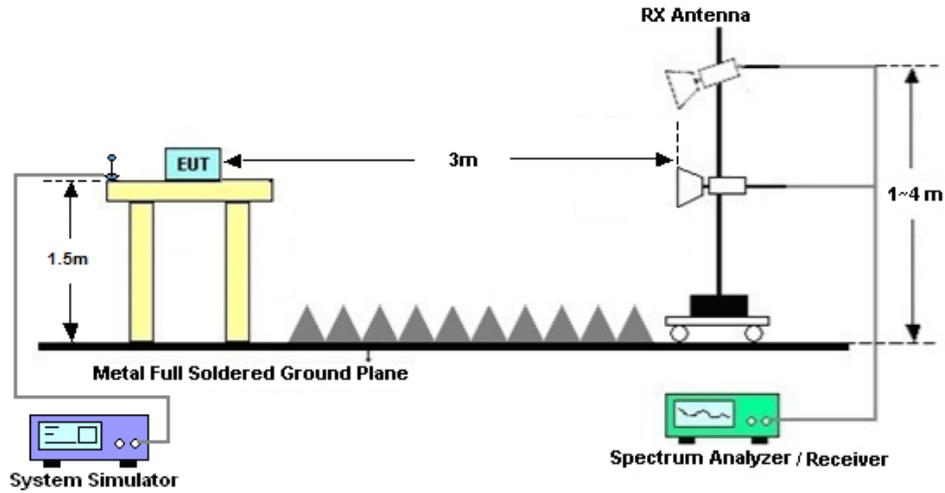
4.2.1 For radiated test below 30MHz



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/TIA-603-E. 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
EXA Signal Analyzer	KEYSIGHT	N9010B	MY60240803	10Hz~44GHz	Apr. 03, 2021	Jan. 16, 2022	Apr. 02, 2022	Conducted (TH01-SZ)
Power divider	STI	STI08-0055	-	0.5~40GHz	Aug. 26, 2021	Jan. 16, 2022	Aug. 25, 2022	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 14, 2021	Jan. 16, 2022	Jul. 13, 2022	Conducted (TH01-SZ)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 13, 2021	Jan. 28, 2022	Apr. 12, 2022	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	May 30, 2021	Jan. 28, 2022	May 29, 2022	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1356	1GHz~18GHz	Apr. 18, 2021	Jan. 28, 2022	Apr. 17, 2022	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Jan. 05, 2022	Jan. 28, 2022	Jan. 04, 2023	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 05, 2022	Jan. 28, 2022	Jan. 04, 2023	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40GG A	060728	18~40GHz	Jan. 05, 2022	Jan. 28, 2022	Jan. 04, 2023	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2025788	1Ghz-18Ghz	Jul. 30, 2021	Jan. 28, 2022	Jul. 29, 2022	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 13, 2021	Jan. 28, 2022	Oct. 12, 2022	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jan. 28, 2022	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jan. 28, 2022	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jan. 28, 2022	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required



6 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))	3.3dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8dB
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Appendix A. Test Results of Conducted Test

FR1 N78

LTE Band: 2, LTE BW: 10M, LTE ARFCN: Mid

Transmitter Conducted Output Power And EIRP (GT-Lc)=-1.5dBi

NR	SCS	Bandwidth	Arfcn	Freq	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
Band	(kHz)	(MHz)		(MHz)					
78	15	10	630334	3455.01	DFT-s-OFDM PI/2 BPSK	25@12	26.11	24.61	0.2891
78	15	10	630334	3455.01	DFT-s-OFDM PI/2 BPSK	1@1	26.08	24.58	0.2871
78	15	10	630334	3455.01	DFT-s-OFDM PI/2 BPSK	1@50	25.99	24.49	0.2812
78	15	10	630334	3455.01	DFT-s-OFDM QPSK	25@12	26.17	24.67	0.2931
78	15	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	26.04	24.54	0.2844
78	15	10	630334	3455.01	DFT-s-OFDM QPSK	1@50	26.02	24.52	0.2831
78	15	10	630334	3455.01	DFT-s-OFDM 16 QAM	25@12	25.16	23.66	0.2323
78	15	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	25.18	23.68	0.2333
78	15	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@50	25.06	23.56	0.2270
78	15	10	630334	3455.01	DFT-s-OFDM 64 QAM	25@12	23.56	22.06	0.1607
78	15	10	630334	3455.01	DFT-s-OFDM 64 QAM	1@1	23.55	22.05	0.1603
78	15	10	630334	3455.01	DFT-s-OFDM 64 QAM	1@50	23.56	22.06	0.1607
78	15	10	630334	3455.01	DFT-s-OFDM 256 QAM	25@12	21.54	20.04	0.1009
78	15	10	630334	3455.01	DFT-s-OFDM 256 QAM	1@1	21.9	20.4	0.1096
78	15	10	630334	3455.01	DFT-s-OFDM 256 QAM	1@50	21.87	20.37	0.1089
78	15	10	630334	3455.01	CP-OFDM QPSK	26@13	24.62	23.12	0.2051
78	15	10	630334	3455.01	CP-OFDM QPSK	1@1	24.63	23.13	0.2056
78	15	10	630334	3455.01	CP-OFDM QPSK	1@50	24.58	23.08	0.2032
78	15	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	25@12	26.21	24.71	0.2958
78	15	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.12	24.62	0.2897
78	15	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@50	26.08	24.58	0.2871
78	15	10	633334	3500.01	DFT-s-OFDM QPSK	25@12	26.21	24.71	0.2958
78	15	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.14	24.64	0.2911
78	15	10	633334	3500.01	DFT-s-OFDM QPSK	1@50	26.1	24.6	0.2884

78	15	10	633334	3500.01	DFT-s-OFDM 16 QAM	25@12	25.27	23.77	0.2382
78	15	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.16	23.66	0.2323
78	15	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@50	25.1	23.6	0.2291
78	15	10	633334	3500.01	DFT-s-OFDM 64 QAM	25@12	23.68	22.18	0.1652
78	15	10	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.71	22.21	0.1663
78	15	10	633334	3500.01	DFT-s-OFDM 64 QAM	1@50	23.69	22.19	0.1656
78	15	10	633334	3500.01	DFT-s-OFDM 256 QAM	25@12	21.59	20.09	0.1021
78	15	10	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.97	20.47	0.1114
78	15	10	633334	3500.01	DFT-s-OFDM 256 QAM	1@50	21.94	20.44	0.1107
78	15	10	633334	3500.01	CP-OFDM QPSK	26@13	24.75	23.25	0.2113
78	15	10	633334	3500.01	CP-OFDM QPSK	1@1	24.73	23.23	0.2104
78	15	10	633334	3500.01	CP-OFDM QPSK	1@50	24.62	23.12	0.2051
78	15	10	636333	3544.995	DFT-s-OFDM PI/2 BPSK	25@12	26.18	24.68	0.2938
78	15	10	636333	3544.995	DFT-s-OFDM PI/2 BPSK	1@1	26.1	24.6	0.2884
78	15	10	636333	3544.995	DFT-s-OFDM PI/2 BPSK	1@50	26.17	24.67	0.2931
78	15	10	636333	3544.995	DFT-s-OFDM QPSK	25@12	26.21	24.71	0.2958
78	15	10	636333	3544.995	DFT-s-OFDM QPSK	1@1	26.14	24.64	0.2911
78	15	10	636333	3544.995	DFT-s-OFDM QPSK	1@50	26.09	24.59	0.2877
78	15	10	636333	3544.995	DFT-s-OFDM 16 QAM	25@12	25.23	23.73	0.2360
78	15	10	636333	3544.995	DFT-s-OFDM 16 QAM	1@1	25.14	23.64	0.2312
78	15	10	636333	3544.995	DFT-s-OFDM 16 QAM	1@50	25.15	23.65	0.2317
78	15	10	636333	3544.995	DFT-s-OFDM 64 QAM	25@12	23.68	22.18	0.1652
78	15	10	636333	3544.995	DFT-s-OFDM 64 QAM	1@1	23.72	22.22	0.1667
78	15	10	636333	3544.995	DFT-s-OFDM 64 QAM	1@50	23.76	22.26	0.1683
78	15	10	636333	3544.995	DFT-s-OFDM 256 QAM	25@12	21.51	20.01	0.1002
78	15	10	636333	3544.995	DFT-s-OFDM 256 QAM	1@1	21.86	20.36	0.1086
78	15	10	636333	3544.995	DFT-s-OFDM 256 QAM	1@50	21.89	20.39	0.1094
78	15	10	636333	3544.995	CP-OFDM QPSK	26@13	24.7	23.2	0.2089
78	15	10	636333	3544.995	CP-OFDM QPSK	1@1	24.68	23.18	0.2080
78	15	10	636333	3544.995	CP-OFDM QPSK	1@50	24.72	23.22	0.2099
78	15	15	630500	3457.5	DFT-s-OFDM PI/2 BPSK	36@18	26.3	24.8	0.3020

78	15	15	630500	3457.5	DFT-s-OFDM PI/2 BPSK	1@1	26.2	24.7	0.2951
78	15	15	630500	3457.5	DFT-s-OFDM PI/2 BPSK	1@77	26.1	24.6	0.2884
78	15	15	630500	3457.5	DFT-s-OFDM QPSK	36@18	26.33	24.83	0.3041
78	15	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	26.19	24.69	0.2944
78	15	15	630500	3457.5	DFT-s-OFDM QPSK	1@77	26.15	24.65	0.2917
78	15	15	630500	3457.5	DFT-s-OFDM 16 QAM	36@18	25.39	23.89	0.2449
78	15	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	25.29	23.79	0.2393
78	15	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@77	25.26	23.76	0.2377
78	15	15	630500	3457.5	DFT-s-OFDM 64 QAM	36@18	23.78	22.28	0.1690
78	15	15	630500	3457.5	DFT-s-OFDM 64 QAM	1@1	23.72	22.22	0.1667
78	15	15	630500	3457.5	DFT-s-OFDM 64 QAM	1@77	23.7	22.2	0.1660
78	15	15	630500	3457.5	DFT-s-OFDM 256 QAM	36@18	21.76	20.26	0.1062
78	15	15	630500	3457.5	DFT-s-OFDM 256 QAM	1@1	22.06	20.56	0.1138
78	15	15	630500	3457.5	DFT-s-OFDM 256 QAM	1@77	22	20.5	0.1122
78	15	15	630500	3457.5	CP-OFDM QPSK	39@19	24.75	23.25	0.2113
78	15	15	630500	3457.5	CP-OFDM QPSK	1@1	24.81	23.31	0.2143
78	15	15	630500	3457.5	CP-OFDM QPSK	1@77	24.74	23.24	0.2109
78	15	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	36@18	26.37	24.87	0.3069
78	15	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.21	24.71	0.2958
78	15	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@77	26.17	24.67	0.2931
78	15	15	633334	3500.01	DFT-s-OFDM QPSK	36@18	26.41	24.91	0.3097
78	15	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.24	24.74	0.2979
78	15	15	633334	3500.01	DFT-s-OFDM QPSK	1@77	26.19	24.69	0.2944
78	15	15	633334	3500.01	DFT-s-OFDM 16 QAM	36@18	25.41	23.91	0.2460
78	15	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.35	23.85	0.2427
78	15	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@77	25.35	23.85	0.2427
78	15	15	633334	3500.01	DFT-s-OFDM 64 QAM	36@18	23.85	22.35	0.1718
78	15	15	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.75	22.25	0.1679
78	15	15	633334	3500.01	DFT-s-OFDM 64 QAM	1@77	23.74	22.24	0.1675
78	15	15	633334	3500.01	DFT-s-OFDM 256 QAM	36@18	21.82	20.32	0.1076
78	15	15	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	22.04	20.54	0.1132

78	15	15	633334	3500.01	DFT-s-OFDM 256 QAM	1@77	21.95	20.45	0.1109
78	15	15	633334	3500.01	CP-OFDM QPSK	39@19	24.8	23.3	0.2138
78	15	15	633334	3500.01	CP-OFDM QPSK	1@1	24.89	23.39	0.2183
78	15	15	633334	3500.01	CP-OFDM QPSK	1@77	24.85	23.35	0.2163
78	15	15	636166	3542.49	DFT-s-OFDM PI/2 BPSK	36@18	26.31	24.81	0.3027
78	15	15	636166	3542.49	DFT-s-OFDM PI/2 BPSK	1@1	26.23	24.73	0.2972
78	15	15	636166	3542.49	DFT-s-OFDM PI/2 BPSK	1@77	26.23	24.73	0.2972
78	15	15	636166	3542.49	DFT-s-OFDM QPSK	36@18	26.36	24.86	0.3062
78	15	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	26.25	24.75	0.2985
78	15	15	636166	3542.49	DFT-s-OFDM QPSK	1@77	26.25	24.75	0.2985
78	15	15	636166	3542.49	DFT-s-OFDM 16 QAM	36@18	25.42	23.92	0.2466
78	15	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	25.35	23.85	0.2427
78	15	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@77	25.39	23.89	0.2449
78	15	15	636166	3542.49	DFT-s-OFDM 64 QAM	36@18	23.88	22.38	0.1730
78	15	15	636166	3542.49	DFT-s-OFDM 64 QAM	1@1	23.78	22.28	0.1690
78	15	15	636166	3542.49	DFT-s-OFDM 64 QAM	1@77	23.79	22.29	0.1694
78	15	15	636166	3542.49	DFT-s-OFDM 256 QAM	36@18	21.81	20.31	0.1074
78	15	15	636166	3542.49	DFT-s-OFDM 256 QAM	1@1	22.08	20.58	0.1143
78	15	15	636166	3542.49	DFT-s-OFDM 256 QAM	1@77	22.13	20.63	0.1156
78	15	15	636166	3542.49	CP-OFDM QPSK	39@19	24.82	23.32	0.2148
78	15	15	636166	3542.49	CP-OFDM QPSK	1@1	24.83	23.33	0.2153
78	15	15	636166	3542.49	CP-OFDM QPSK	1@77	24.86	23.36	0.2168
78	15	20	630667	3460.005	DFT-s-OFDM PI/2 BPSK	50@25	26.29	24.79	0.3013
78	15	20	630667	3460.005	DFT-s-OFDM PI/2 BPSK	1@1	26.19	24.69	0.2944
78	15	20	630667	3460.005	DFT-s-OFDM PI/2 BPSK	1@104	26.09	24.59	0.2877
78	15	20	630667	3460.005	DFT-s-OFDM QPSK	50@25	26.36	24.86	0.3062
78	15	20	630667	3460.005	DFT-s-OFDM QPSK	1@1	26.19	24.69	0.2944
78	15	20	630667	3460.005	DFT-s-OFDM QPSK	1@104	26.1	24.6	0.2884
78	15	20	630667	3460.005	DFT-s-OFDM 16 QAM	50@25	25.28	23.78	0.2388
78	15	20	630667	3460.005	DFT-s-OFDM 16 QAM	1@1	25.27	23.77	0.2382
78	15	20	630667	3460.005	DFT-s-OFDM 16 QAM	1@104	25.09	23.59	0.2286

78	15	20	630667	3460.005	DFT-s-OFDM 64 QAM	50@25	23.83	22.33	0.1710
78	15	20	630667	3460.005	DFT-s-OFDM 64 QAM	1@1	23.77	22.27	0.1687
78	15	20	630667	3460.005	DFT-s-OFDM 64 QAM	1@104	23.69	22.19	0.1656
78	15	20	630667	3460.005	DFT-s-OFDM 256 QAM	50@25	21.7	20.2	0.1047
78	15	20	630667	3460.005	DFT-s-OFDM 256 QAM	1@1	22.04	20.54	0.1132
78	15	20	630667	3460.005	DFT-s-OFDM 256 QAM	1@104	21.91	20.41	0.1099
78	15	20	630667	3460.005	CP-OFDM QPSK	53@26	24.8	23.3	0.2138
78	15	20	630667	3460.005	CP-OFDM QPSK	1@1	24.78	23.28	0.2128
78	15	20	630667	3460.005	CP-OFDM QPSK	1@104	24.73	23.23	0.2104
78	15	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@25	26.38	24.88	0.3076
78	15	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.16	24.66	0.2924
78	15	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@104	26.14	24.64	0.2911
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	50@25	26.41	24.91	0.3097
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.25	24.75	0.2985
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	1@104	26.19	24.69	0.2944
78	15	20	633334	3500.01	DFT-s-OFDM 16 QAM	50@25	25.4	23.9	0.2455
78	15	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.35	23.85	0.2427
78	15	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@104	25.23	23.73	0.2360
78	15	20	633334	3500.01	DFT-s-OFDM 64 QAM	50@25	23.9	22.4	0.1738
78	15	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.8	22.3	0.1698
78	15	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@104	23.73	22.23	0.1671
78	15	20	633334	3500.01	DFT-s-OFDM 256 QAM	50@25	21.83	20.33	0.1079
78	15	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	22.1	20.6	0.1148
78	15	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@104	21.97	20.47	0.1114
78	15	20	633334	3500.01	CP-OFDM QPSK	53@26	24.88	23.38	0.2178
78	15	20	633334	3500.01	CP-OFDM QPSK	1@1	24.85	23.35	0.2163
78	15	20	633334	3500.01	CP-OFDM QPSK	1@104	24.76	23.26	0.2118
78	15	20	636000	3540	DFT-s-OFDM PI/2 BPSK	50@25	26.4	24.9	0.3090
78	15	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@1	26.24	24.74	0.2979
78	15	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@104	26.22	24.72	0.2965
78	15	20	636000	3540	DFT-s-OFDM QPSK	50@25	26.42	24.92	0.3105

78	15	20	636000	3540	DFT-s-OFDM QPSK	1@1	26.28	24.78	0.3006
78	15	20	636000	3540	DFT-s-OFDM QPSK	1@104	26.25	24.75	0.2985
78	15	20	636000	3540	DFT-s-OFDM 16 QAM	50@25	25.4	23.9	0.2455
78	15	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	25.32	23.82	0.2410
78	15	20	636000	3540	DFT-s-OFDM 16 QAM	1@104	25.33	23.83	0.2415
78	15	20	636000	3540	DFT-s-OFDM 64 QAM	50@25	23.89	22.39	0.1734
78	15	20	636000	3540	DFT-s-OFDM 64 QAM	1@1	23.84	22.34	0.1714
78	15	20	636000	3540	DFT-s-OFDM 64 QAM	1@104	23.83	22.33	0.1710
78	15	20	636000	3540	DFT-s-OFDM 256 QAM	50@25	21.82	20.32	0.1076
78	15	20	636000	3540	DFT-s-OFDM 256 QAM	1@1	22.1	20.6	0.1148
78	15	20	636000	3540	DFT-s-OFDM 256 QAM	1@104	22.06	20.56	0.1138
78	15	20	636000	3540	CP-OFDM QPSK	53@26	24.88	23.38	0.2178
78	15	20	636000	3540	CP-OFDM QPSK	1@1	24.86	23.36	0.2168
78	15	20	636000	3540	CP-OFDM QPSK	1@104	24.8	23.3	0.2138
78	15	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	108@54	26.33	24.83	0.3041
78	15	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@1	25.81	24.31	0.2698
78	15	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@214	25.74	24.24	0.2655
78	15	40	631334	3470.01	DFT-s-OFDM QPSK	108@54	26.35	24.85	0.3055
78	15	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	25.78	24.28	0.2679
78	15	40	631334	3470.01	DFT-s-OFDM QPSK	1@214	25.75	24.25	0.2661
78	15	40	631334	3470.01	DFT-s-OFDM 16 QAM	108@54	25.37	23.87	0.2438
78	15	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	24.82	23.32	0.2148
78	15	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@214	24.78	23.28	0.2128
78	15	40	631334	3470.01	DFT-s-OFDM 64 QAM	108@54	23.84	22.34	0.1714
78	15	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@1	23.46	21.96	0.1570
78	15	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@214	23.4	21.9	0.1549
78	15	40	631334	3470.01	DFT-s-OFDM 256 QAM	108@54	21.81	20.31	0.1074
78	15	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@1	21.7	20.2	0.1047
78	15	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@214	21.68	20.18	0.1042
78	15	40	631334	3470.01	CP-OFDM QPSK	108@54	24.85	23.35	0.2163
78	15	40	631334	3470.01	CP-OFDM QPSK	1@1	24.43	22.93	0.1963

78	15	40	631334	3470.01	CP-OFDM QPSK	1@214	24.31	22.81	0.1910
78	15	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	108@54	26.38	24.88	0.3076
78	15	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.82	24.32	0.2704
78	15	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@214	25.75	24.25	0.2661
78	15	40	633334	3500.01	DFT-s-OFDM QPSK	108@54	26.41	24.91	0.3097
78	15	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.81	24.31	0.2698
78	15	40	633334	3500.01	DFT-s-OFDM QPSK	1@214	25.74	24.24	0.2655
78	15	40	633334	3500.01	DFT-s-OFDM 16 QAM	108@54	25.43	23.93	0.2472
78	15	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.92	23.42	0.2198
78	15	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@214	24.83	23.33	0.2153
78	15	40	633334	3500.01	DFT-s-OFDM 64 QAM	108@54	23.9	22.4	0.1738
78	15	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.43	21.93	0.1560
78	15	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@214	23.3	21.8	0.1514
78	15	40	633334	3500.01	DFT-s-OFDM 256 QAM	108@54	21.89	20.39	0.1094
78	15	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.76	20.26	0.1062
78	15	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@214	21.65	20.15	0.1035
78	15	40	633334	3500.01	CP-OFDM QPSK	108@54	24.86	23.36	0.2168
78	15	40	633334	3500.01	CP-OFDM QPSK	1@1	24.46	22.96	0.1977
78	15	40	633334	3500.01	CP-OFDM QPSK	1@214	24.31	22.81	0.1910
78	15	40	635333	3529.995	DFT-s-OFDM PI/2 BPSK	108@54	26.36	24.86	0.3062
78	15	40	635333	3529.995	DFT-s-OFDM PI/2 BPSK	1@1	25.95	24.45	0.2786
78	15	40	635333	3529.995	DFT-s-OFDM PI/2 BPSK	1@214	25.76	24.26	0.2667
78	15	40	635333	3529.995	DFT-s-OFDM QPSK	108@54	26.4	24.9	0.3090
78	15	40	635333	3529.995	DFT-s-OFDM QPSK	1@1	25.87	24.37	0.2735
78	15	40	635333	3529.995	DFT-s-OFDM QPSK	1@214	25.7	24.2	0.2630
78	15	40	635333	3529.995	DFT-s-OFDM 16 QAM	108@54	25.49	23.99	0.2506
78	15	40	635333	3529.995	DFT-s-OFDM 16 QAM	1@1	24.89	23.39	0.2183
78	15	40	635333	3529.995	DFT-s-OFDM 16 QAM	1@214	24.82	23.32	0.2148
78	15	40	635333	3529.995	DFT-s-OFDM 64 QAM	108@54	23.95	22.45	0.1758
78	15	40	635333	3529.995	DFT-s-OFDM 64 QAM	1@1	23.53	22.03	0.1596
78	15	40	635333	3529.995	DFT-s-OFDM 64 QAM	1@214	23.41	21.91	0.1552

78	15	40	635333	3529.995	DFT-s-OFDM 256 QAM	108@54	21.9	20.4	0.1096
78	15	40	635333	3529.995	DFT-s-OFDM 256 QAM	1@1	21.82	20.32	0.1076
78	15	40	635333	3529.995	DFT-s-OFDM 256 QAM	1@214	21.65	20.15	0.1035
78	15	40	635333	3529.995	CP-OFDM QPSK	108@54	24.85	23.35	0.2163
78	15	40	635333	3529.995	CP-OFDM QPSK	1@1	24.49	22.99	0.1991
78	15	40	635333	3529.995	CP-OFDM QPSK	1@214	24.34	22.84	0.1923
78	15	50	631667	3475.005	DFT-s-OFDM PI/2 BPSK	135@67	26.26	24.76	0.2992
78	15	50	631667	3475.005	DFT-s-OFDM PI/2 BPSK	1@1	26.14	24.64	0.2911
78	15	50	631667	3475.005	DFT-s-OFDM PI/2 BPSK	1@268	26.04	24.54	0.2844
78	15	50	631667	3475.005	DFT-s-OFDM QPSK	135@67	26.31	24.81	0.3027
78	15	50	631667	3475.005	DFT-s-OFDM QPSK	1@1	26.12	24.62	0.2897
78	15	50	631667	3475.005	DFT-s-OFDM QPSK	1@268	26.04	24.54	0.2844
78	15	50	631667	3475.005	DFT-s-OFDM 16 QAM	135@67	25.35	23.85	0.2427
78	15	50	631667	3475.005	DFT-s-OFDM 16 QAM	1@1	25.31	23.81	0.2404
78	15	50	631667	3475.005	DFT-s-OFDM 16 QAM	1@268	25.2	23.7	0.2344
78	15	50	631667	3475.005	DFT-s-OFDM 64 QAM	135@67	23.86	22.36	0.1722
78	15	50	631667	3475.005	DFT-s-OFDM 64 QAM	1@1	23.68	22.18	0.1652
78	15	50	631667	3475.005	DFT-s-OFDM 64 QAM	1@268	23.62	22.12	0.1629
78	15	50	631667	3475.005	DFT-s-OFDM 256 QAM	135@67	21.79	20.29	0.1069
78	15	50	631667	3475.005	DFT-s-OFDM 256 QAM	1@1	21.96	20.46	0.1112
78	15	50	631667	3475.005	DFT-s-OFDM 256 QAM	1@268	21.91	20.41	0.1099
78	15	50	631667	3475.005	CP-OFDM QPSK	135@67	24.87	23.37	0.2173
78	15	50	631667	3475.005	CP-OFDM QPSK	1@1	24.79	23.29	0.2133
78	15	50	631667	3475.005	CP-OFDM QPSK	1@268	24.65	23.15	0.2065
78	15	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	26.36	24.86	0.3062
78	15	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.17	24.67	0.2931
78	15	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@268	26.01	24.51	0.2825
78	15	50	633334	3500.01	DFT-s-OFDM QPSK	135@67	26.37	24.87	0.3069
78	15	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.19	24.69	0.2944
78	15	50	633334	3500.01	DFT-s-OFDM QPSK	1@268	26.02	24.52	0.2831
78	15	50	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	25.43	23.93	0.2472

78	15	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.3	23.8	0.2399
78	15	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@268	25.15	23.65	0.2317
78	15	50	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	23.89	22.39	0.1734
78	15	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.68	22.18	0.1652
78	15	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@268	23.62	22.12	0.1629
78	15	50	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	21.89	20.39	0.1094
78	15	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	22.03	20.53	0.1130
78	15	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@268	21.91	20.41	0.1099
78	15	50	633334	3500.01	CP-OFDM QPSK	135@67	24.87	23.37	0.2173
78	15	50	633334	3500.01	CP-OFDM QPSK	1@1	24.75	23.25	0.2113
78	15	50	633334	3500.01	CP-OFDM QPSK	1@268	24.66	23.16	0.2070
78	15	50	635000	3525	DFT-s-OFDM PI/2 BPSK	135@67	26.39	24.89	0.3083
78	15	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@1	26.24	24.74	0.2979
78	15	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@268	26.09	24.59	0.2877
78	15	50	635000	3525	DFT-s-OFDM QPSK	135@67	26.37	24.87	0.3069
78	15	50	635000	3525	DFT-s-OFDM QPSK	1@1	26.25	24.75	0.2985
78	15	50	635000	3525	DFT-s-OFDM QPSK	1@268	26.02	24.52	0.2831
78	15	50	635000	3525	DFT-s-OFDM 16 QAM	135@67	25.49	23.99	0.2506
78	15	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	25.3	23.8	0.2399
78	15	50	635000	3525	DFT-s-OFDM 16 QAM	1@268	25.18	23.68	0.2333
78	15	50	635000	3525	DFT-s-OFDM 64 QAM	135@67	23.91	22.41	0.1742
78	15	50	635000	3525	DFT-s-OFDM 64 QAM	1@1	23.74	22.24	0.1675
78	15	50	635000	3525	DFT-s-OFDM 64 QAM	1@268	23.64	22.14	0.1637
78	15	50	635000	3525	DFT-s-OFDM 256 QAM	135@67	21.86	20.36	0.1086
78	15	50	635000	3525	DFT-s-OFDM 256 QAM	1@1	22.06	20.56	0.1138
78	15	50	635000	3525	DFT-s-OFDM 256 QAM	1@268	21.92	20.42	0.1102
78	15	50	635000	3525	CP-OFDM QPSK	135@67	24.89	23.39	0.2183
78	15	50	635000	3525	CP-OFDM QPSK	1@1	24.81	23.31	0.2143
78	15	50	635000	3525	CP-OFDM QPSK	1@268	24.62	23.12	0.2051

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0102	PASS	NV
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0025	PASS	LV
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0123	PASS	HV
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0119	PASS	-30°C
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0186	PASS	-20°C
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0176	PASS	-10°C
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0127	PASS	0°C
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0201	PASS	10°C
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0133	PASS	20°C
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0165	PASS	30°C
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0151	PASS	40°C
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	0.0167	PASS	50°C

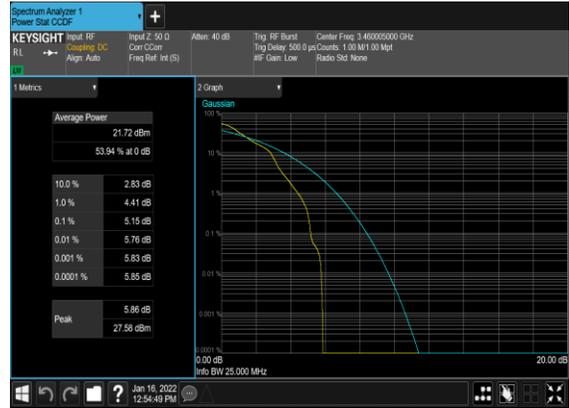
Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
78	15	20	630667	3460.005	DFT-s-OFDM PI/2 BPSK	100@0	4.18	13	PASS
78	15	20	630667	3460.005	DFT-s-OFDM PI/2 BPSK	1@0	5.15	13	PASS
78	15	20	630667	3460.005	DFT-s-OFDM QPSK	100@0	5.4	13	PASS
78	15	20	630667	3460.005	DFT-s-OFDM QPSK	1@0	6.06	13	PASS
78	15	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	100@0	4.21	13	PASS
78	15	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@0	4.67	13	PASS
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	5.37	13	PASS
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	6.53	13	PASS
78	15	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	100@0	4.21	13	PASS
78	15	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	1@0	5.06	13	PASS
78	15	20	636000	3540.0	DFT-s-OFDM QPSK	100@0	5.37	13	PASS
78	15	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	6.06	13	PASS

B2_N78(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



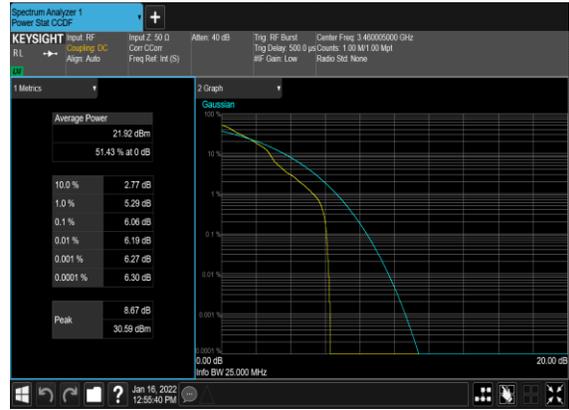
B2_N78(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Low_CH



B2_N78(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



B2_N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



B2_N78(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



B2_N78(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH



B2_N78(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



B2_N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



B2_N78(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



B2_N78(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_High_CH



B2_N78(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



B2_N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
78	15	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	8.8984	9.434
78	15	10	633334	3500.01	DFT-s-OFDM QPSK	50@0	8.8936	9.386
78	15	10	633334	3500.01	CP-OFDM QPSK	52@0	9.2799	9.785
78	15	10	633334	3500.01	CP-OFDM 16 QAM	52@0	9.2872	9.781
78	15	10	633334	3500.01	CP-OFDM 64 QAM	52@0	9.287	10.28
78	15	10	633334	3500.01	CP-OFDM 256 QAM	52@0	9.2737	9.751
78	15	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	75@0	13.382	14.01
78	15	15	633334	3500.01	DFT-s-OFDM QPSK	75@0	13.371	14.18
78	15	15	633334	3500.01	CP-OFDM QPSK	79@0	14.115	14.74
78	15	15	633334	3500.01	CP-OFDM 16 QAM	79@0	14.117	14.67
78	15	15	633334	3500.01	CP-OFDM 64 QAM	79@0	14.123	14.75
78	15	15	633334	3500.01	CP-OFDM 256 QAM	79@0	14.112	14.65
78	15	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	100@0	17.873	18.88
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	17.86	19.0
78	15	20	633334	3500.01	CP-OFDM QPSK	106@0	18.862	19.79
78	15	20	633334	3500.01	CP-OFDM 16 QAM	106@0	18.929	19.87
78	15	20	633334	3500.01	CP-OFDM 64 QAM	106@0	18.899	19.93
78	15	20	633334	3500.01	CP-OFDM 256 QAM	106@0	18.945	19.63
78	15	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	216@0	38.555	39.86
78	15	40	633334	3500.01	DFT-s-OFDM QPSK	216@0	38.566	39.97
78	15	40	633334	3500.01	CP-OFDM QPSK	216@0	38.49	39.92
78	15	40	633334	3500.01	CP-OFDM 16 QAM	216@0	38.531	39.95
78	15	40	633334	3500.01	CP-OFDM 64 QAM	216@0	38.527	40.76
78	15	40	633334	3500.01	CP-OFDM 256 QAM	216@0	38.536	40.02

78	15	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	270@0	48.319	49.78
78	15	50	633334	3500.01	DFT-s-OFDM QPSK	270@0	48.171	49.85
78	15	50	633334	3500.01	CP-OFDM QPSK	270@0	48.245	49.75
78	15	50	633334	3500.01	CP-OFDM 16 QAM	270@0	48.104	49.79
78	15	50	633334	3500.01	CP-OFDM 64 QAM	270@0	48.089	49.7
78	15	50	633334	3500.01	CP-OFDM 256 QAM	270@0	48.115	49.93

B2_N78(10M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



B2_N78(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



B2_N78(10M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



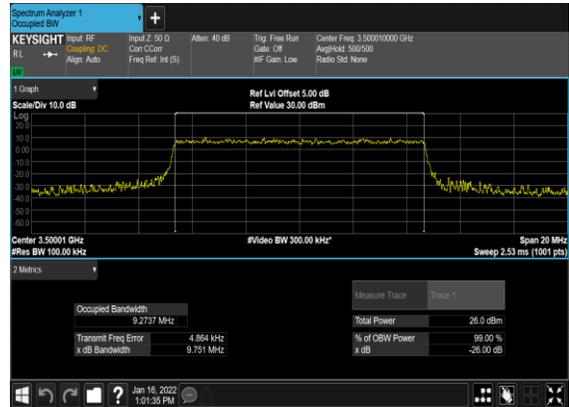
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QAM_Outer_Full_Mid_CH



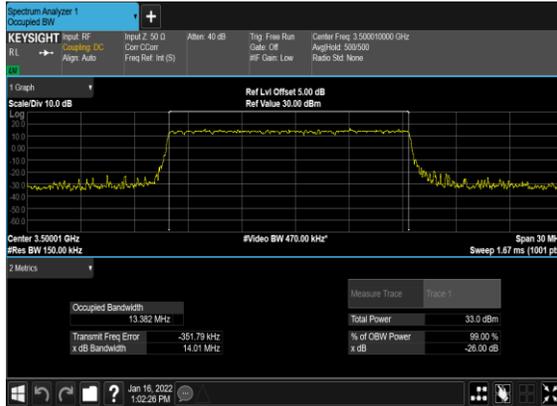
B2_N78(10M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



B2_N78(10M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



B2_N78(15M)_DFT-s-OFDM_PI_2- BPSK_Outer_Full_Mid_CH



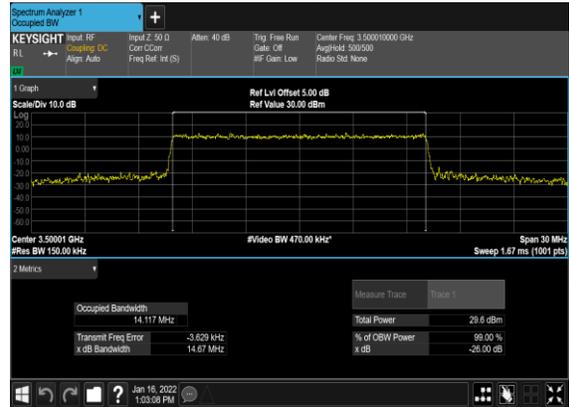
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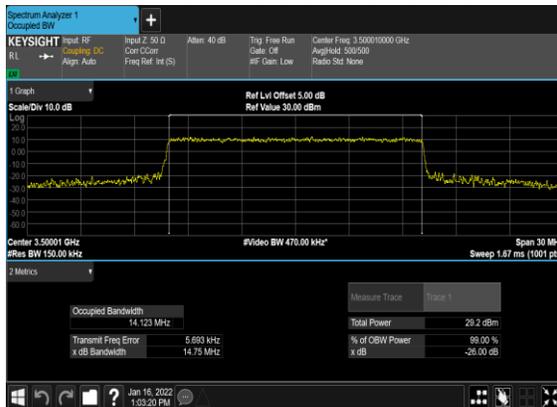
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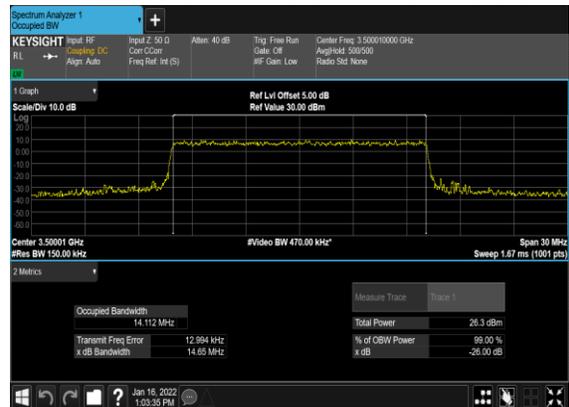
B2_N78(15M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



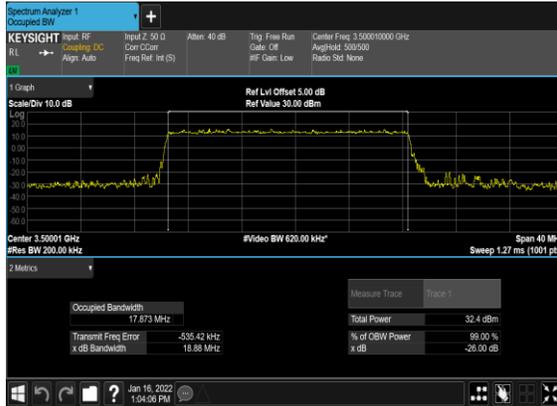
B2_N78(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



B2_N78(15M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



B2_N78(20M)_DFT-s-OFDM_PI_2- BPSK_Outer_Full_Mid_CH



B2_N78(20M)_DFT-s- OFDM_QPSK_Outer_Full_Mid_CH



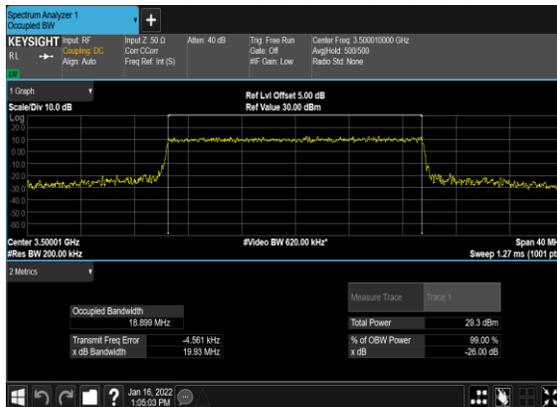
B2_N78(20M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



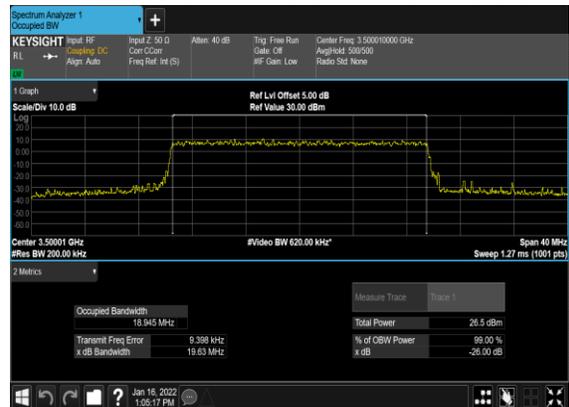
B2_N78(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



B2_N78(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



B2_N78(20M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



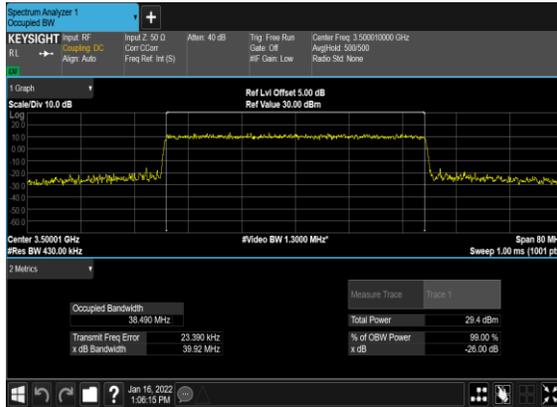
B2_N78(40M)_DFT-s-OFDM_PI_2- BPSK_Outer_Full_Mid_CH



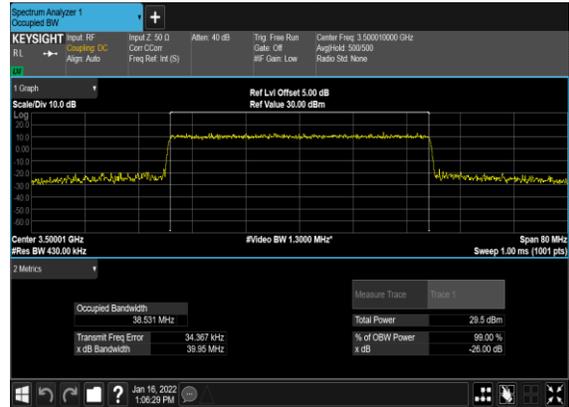
B2_N78(40M)_DFT-s- OFDM_QPSK_Outer_Full_Mid_CH



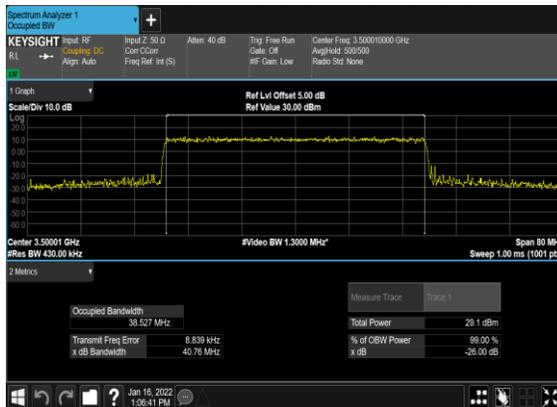
B2_N78(40M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



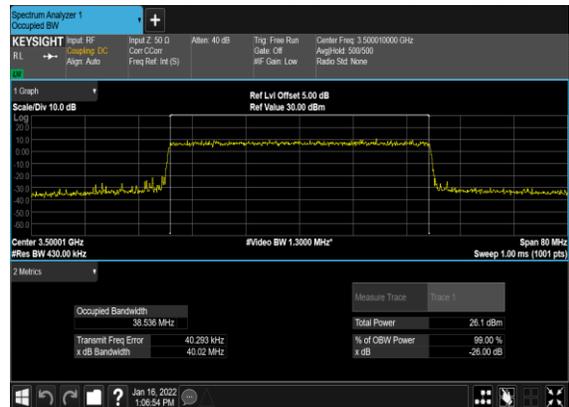
B2_N78(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



B2_N78(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



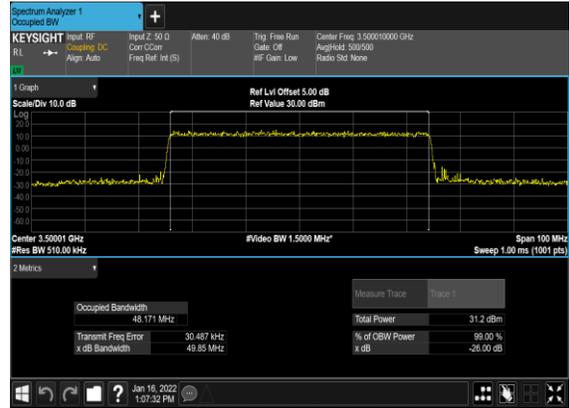
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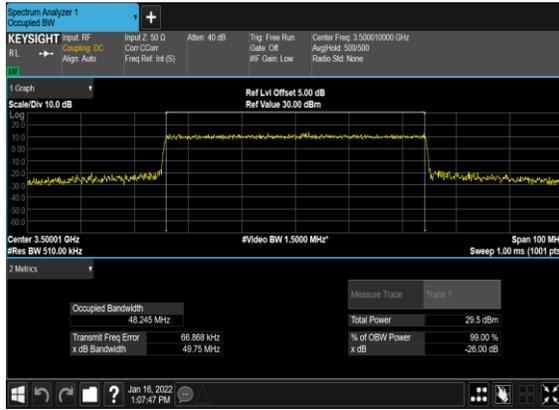
B2_N78(50M)_DFT-s-OFDM_PI_2- BPSK_Outer_Full_Mid_CH



B2_N78(50M)_DFT-s- OFDM_QPSK_Outer_Full_Mid_CH



B2_N78(50M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



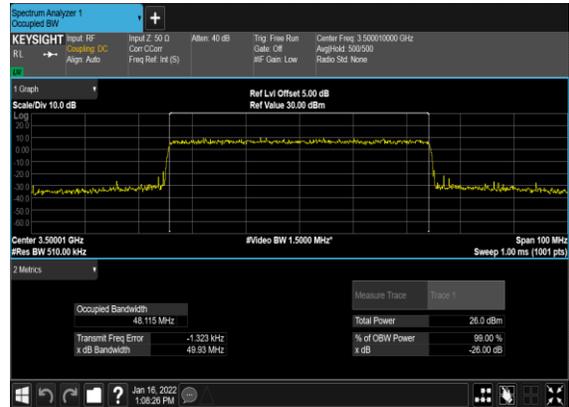
B2_N78(50M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



B2_N78(50M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



B2_N78(50M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



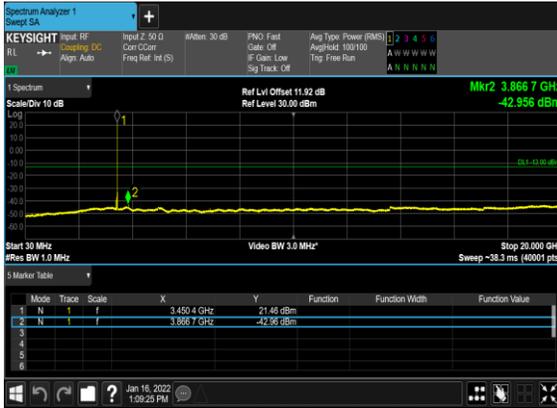
Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	15	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	15	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	15	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	10	636333	3544.995	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	10	636333	3544.995	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	10	636333	3544.995	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	10	636333	3544.995	DFT-s-OFDM QPSK	1@0	see graph	---
78	15	10	636333	3544.995	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	10	636333	3544.995	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	20	630667	3460.005	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	20	630667	3460.005	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	20	630667	3460.005	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	20	630667	3460.005	DFT-s-OFDM QPSK	1@0	see graph	---

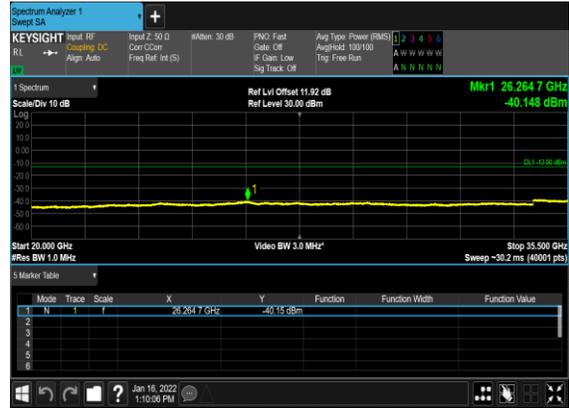
78	15	20	630667	3460.005	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	20	630667	3460.005	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	15	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	50	631667	3475.005	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	50	631667	3475.005	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	50	631667	3475.005	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	50	631667	3475.005	DFT-s-OFDM QPSK	1@0	see graph	---
78	15	50	631667	3475.005	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	50	631667	3475.005	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---

78	15	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	15	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

B2_N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



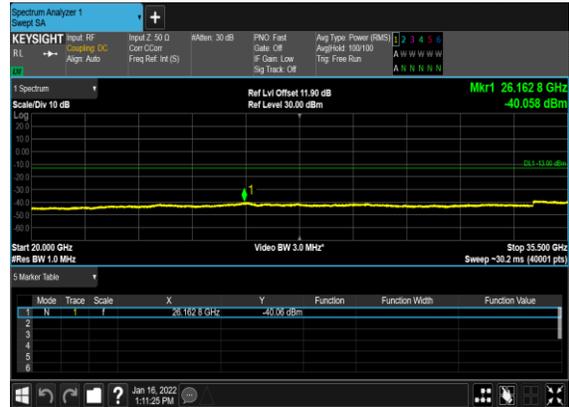
B2_N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



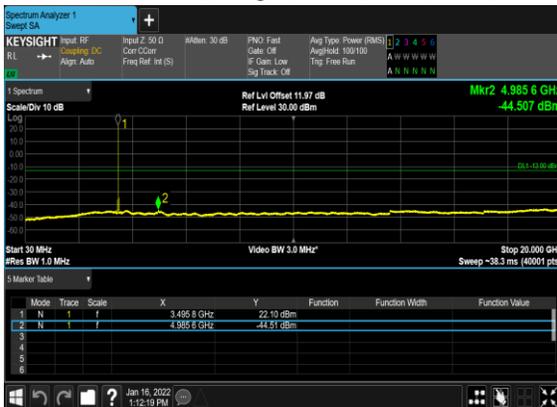
B2_N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



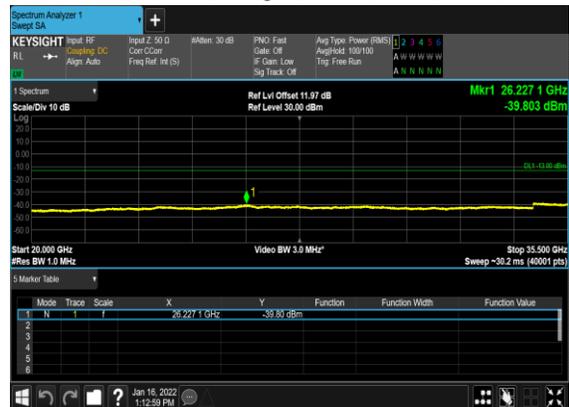
B2_N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



B2_N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



B2_N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



B2_N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



B2_N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



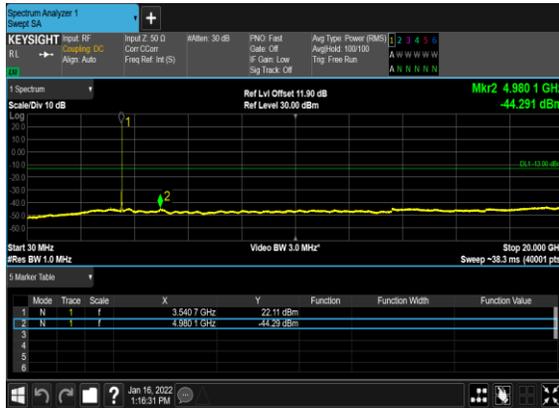
B2_N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



B2_N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



B2_N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



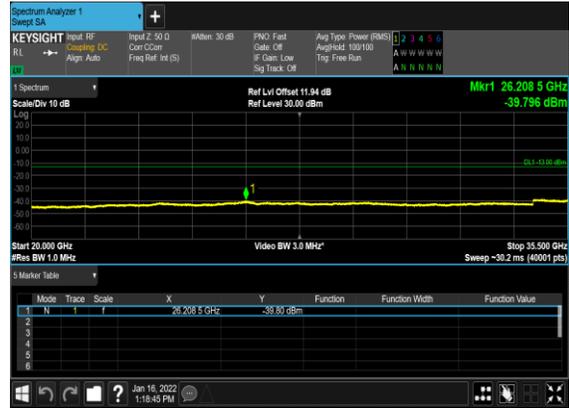
B2_N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



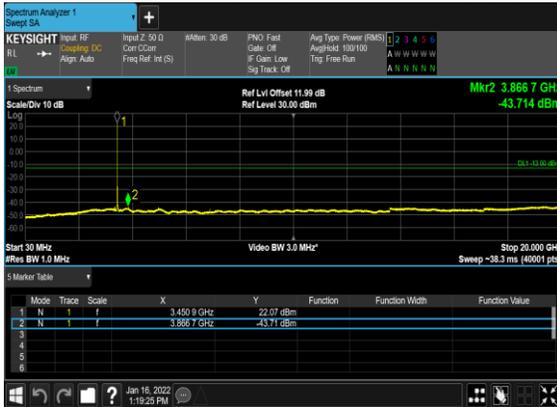
B2_N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



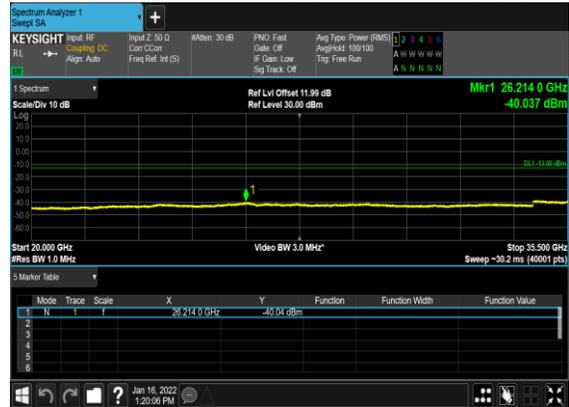
B2_N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



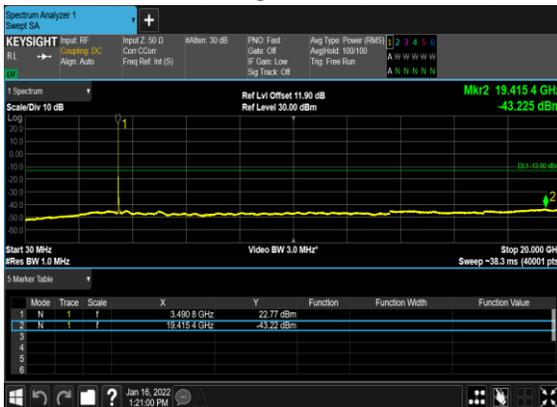
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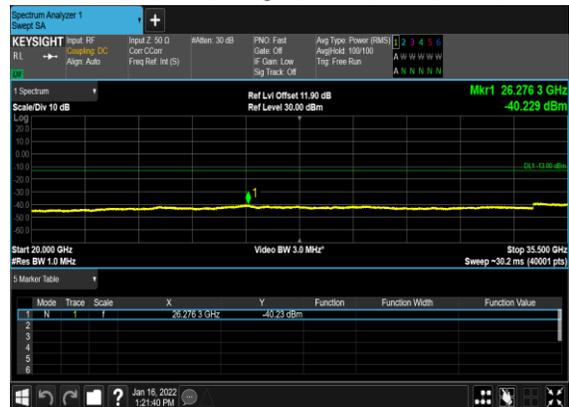
B2_N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



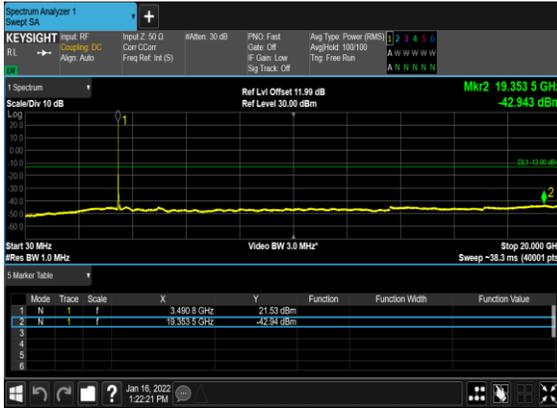
B2_N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



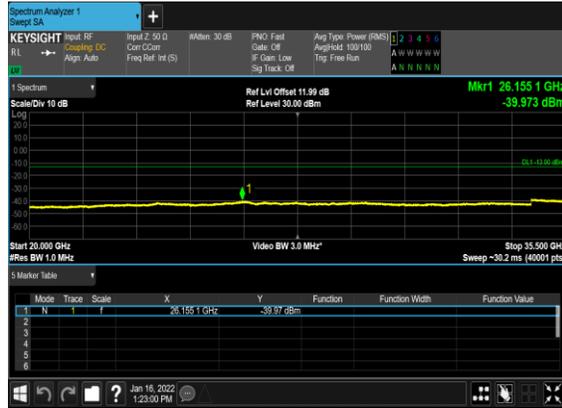
B2_N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



B2_N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



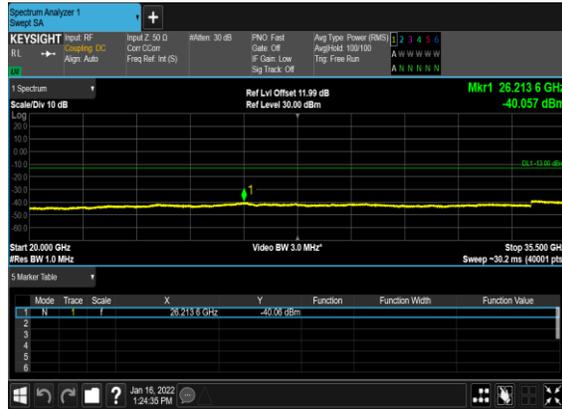
B2_N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



B2_N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



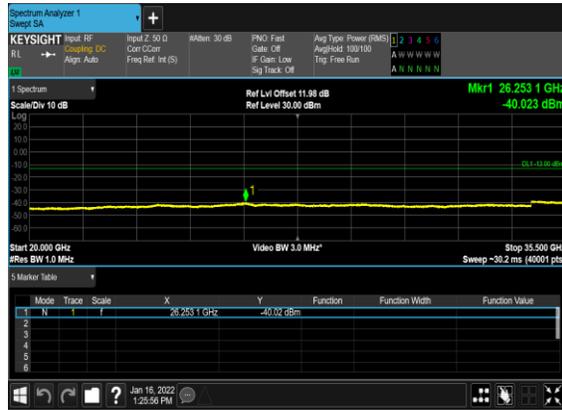
B2_N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



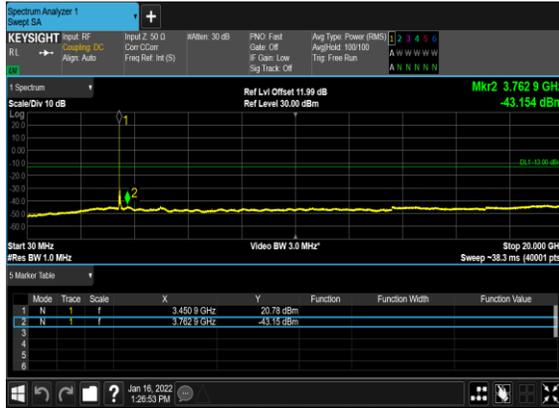
B2_N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



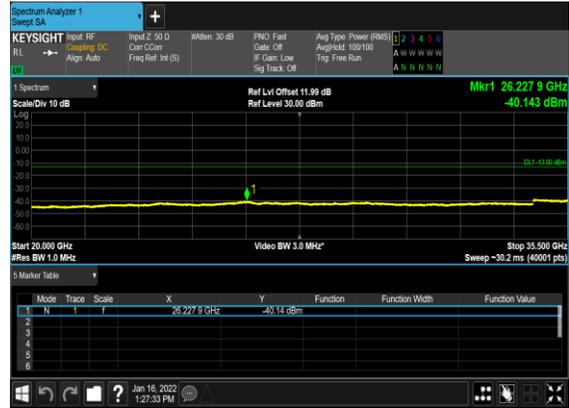
B2_N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



B2_N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



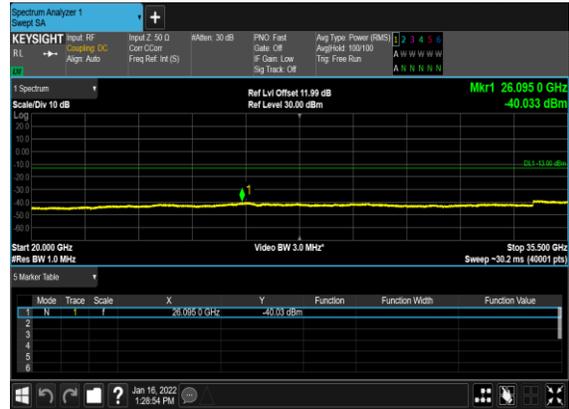
B2_N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



B2_N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



B2_N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



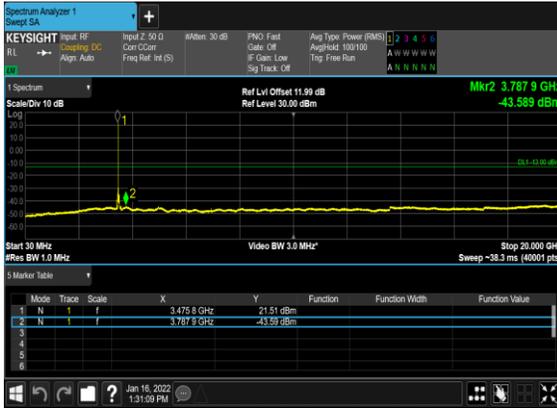
B2_N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



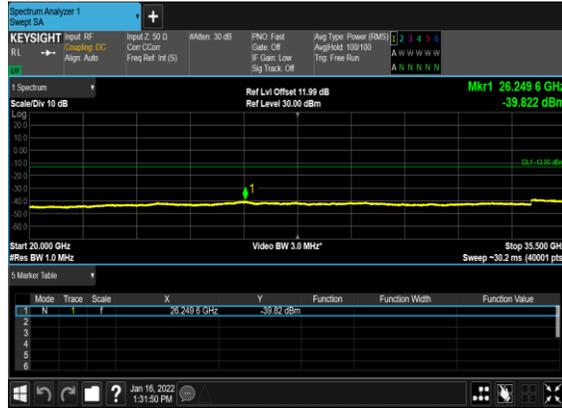
B2_N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



B2_N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



B2_N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



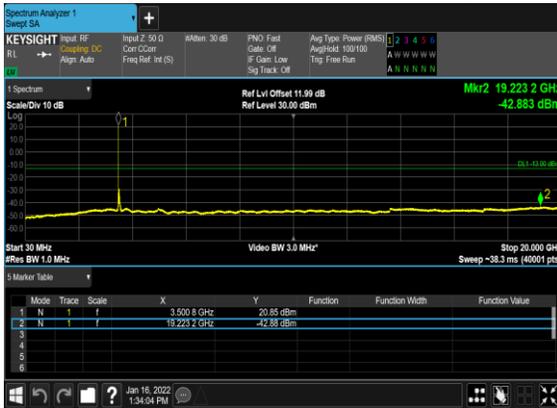
B2_N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



B2_N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



B2_N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



B2_N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	15	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	10	630334	3455.01	DFT-s-OFDM BPSK	50@0	see graph	PASS
78	15	10	630334	3455.01	DFT-s-OFDM QPSK	50@0	see graph	PASS
78	15	10	636333	3544.995	DFT-s-OFDM BPSK	1@51	see graph	PASS
78	15	10	636333	3544.995	DFT-s-OFDM QPSK	1@51	see graph	PASS
78	15	10	636333	3544.995	DFT-s-OFDM BPSK	50@0	see graph	PASS
78	15	10	636333	3544.995	DFT-s-OFDM QPSK	50@0	see graph	PASS
78	15	20	630667	3460.005	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	20	630667	3460.005	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	20	630667	3460.005	DFT-s-OFDM BPSK	100@0	see graph	PASS
78	15	20	630667	3460.005	DFT-s-OFDM QPSK	100@0	see graph	PASS
78	15	20	636000	3540.0	DFT-s-OFDM BPSK	1@105	see graph	PASS
78	15	20	636000	3540.0	DFT-s-OFDM QPSK	1@105	see graph	PASS
78	15	20	636000	3540.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
78	15	20	636000	3540.0	DFT-s-OFDM QPSK	100@0	see graph	PASS
78	15	50	631667	3475.005	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	50	631667	3475.005	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	50	631667	3475.005	DFT-s-OFDM BPSK	270@0	see graph	PASS
78	15	50	631667	3475.005	DFT-s-OFDM QPSK	270@0	see graph	PASS
78	15	50	635000	3525.0	DFT-s-OFDM BPSK	1@269	see graph	PASS
78	15	50	635000	3525.0	DFT-s-OFDM QPSK	1@269	see graph	PASS
78	15	50	635000	3525.0	DFT-s-OFDM BPSK	270@0	see graph	PASS
78	15	50	635000	3525.0	DFT-s-OFDM QPSK	270@0	see graph	PASS

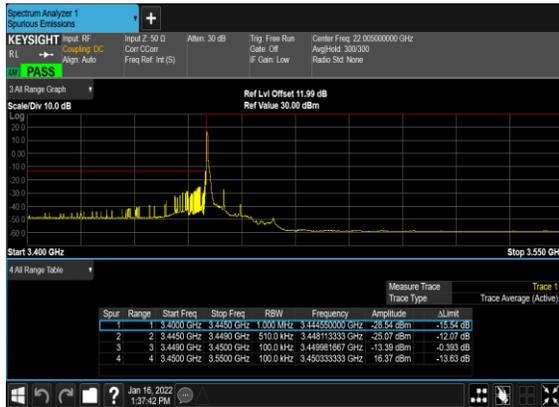
B2_N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



B2_N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH_CHP_PAS



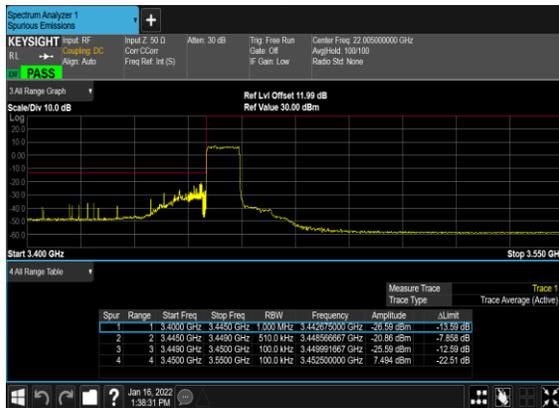
B2_N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



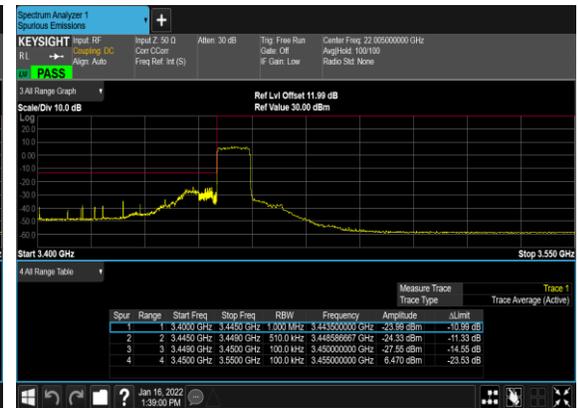
B2_N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH_CHP_PA



B2_N78(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



B2_N78(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



B2_N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



B2_N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



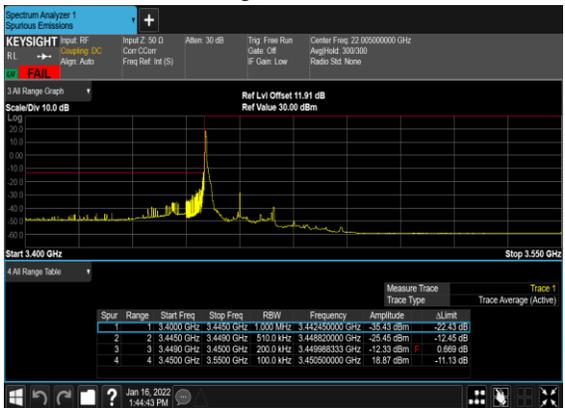
B2_N78(10M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



B2_N78(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



B2_N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



B2_N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH_CHP_PAS

