



FCC RF Test Report

APPLICANT : Guangdong OPPO Mobile Telecommunications Corp., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : OPPO
MODEL NAME : CPH2305
FCC ID : R9C-CPH2305
STANDARD : 47 CFR Part 2, 22, 24, 27
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Nov. 02, 2021 ~ Nov. 29, 2021

We, Sporton International (ShenZhen) Inc., 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 (ShenZhen) Inc., the test report shall not be reproduced except in full.

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People's Republic of China



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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(5)	Effective Radiated Power (5G NR n5, n26)	ERP < 7 Watt		
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (5G NR n12, n13)	ERP < 3 Watt		
	§24.232(c)	Equivalent Isotropic Radiated Power (5G NR n2, n25)	EIRP < 2Watt		
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(g)	Conducted Band Edge Measurement (5G NR n5, n26) (5G NR n2, n25) (5G NR n12, n13)	< 43+10log ₁₀ (P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.53(c)(2)(4)	Conducted Spurious Emission (5G NR n5, n26) (5G NR n2, n25) (5G NR n12, n13)	< 43+10log ₁₀ (P[Watts])	PASS	-
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22H	PASS	-
	§24.235 §27.54		Within Authorized Band		
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(f) §27.53(g)	Radiated Spurious Emission (5G NR n5, n26) (5G NR n2, n25) (5G NR n12, n13)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 24.22 dB at 1564.000 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

Guangdong OPPO Mobile Telecommunications Corp., Ltd.

NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China

1.2 Manufacturer

Guangdong OPPO Mobile Telecommunications Corp., Ltd.

NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	OPPO
Model Name	CPH2305
FCC ID	R9C-CPH2305
IMEI Code	Conducted : 866483050043414/866483050043406 Radiation : 866483050044297/866483050044289
HW Version	11
SW Version	ColorOS V12.1
EUT Stage	Production Unit

Remark:

Only 5G NR bands are tested in this report, all the other RF bands are tested in the other reports separately.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n13 : 777 MHz ~ 787 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 824 MHz ~ 849 MHz
Rx Frequency	5G NR n2 : 1930 MHz ~ 1990 MHz 5G NR n5 : 869 MHz ~ 894 MHz 5G NR n12 : 729 MHz ~ 746 MHz 5G NR n13 : 746 MHz ~ 756 MHz 5G NR n25 : 1930 MHz ~ 1995 MHz 5G NR n26 : 869 MHz ~ 894 MHz
SCS	15kHz
Bandwidth	n2, n5, n26: 5MHz / 10MHz / 15MHz / 20MHz n12: 5MHz / 10MHz / 15MHz n13: 5MHz / 10MHz n25: 5MHz / 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 40MHz
Antenna Gain	Ant. 0: n5: -4.9 dBi n12: -5.0 dBi n13: -5.0 dBi n26: -4.9 dBi Ant. 1: n5: -2.5 dBi n12: -3.0 dBi n13: -3.0 dBi n26: -2.5 dBi Ant. 3: n2: -0.7 dBi n25: -0.7 dBi Ant. 4: n2: -1.0 dBi n25: -1.0 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: QPSK / 16QAM / 64QAM / 256QAM

Note:

1. The maximum ERP/EIRP is calculated from max Output power and antenna gain, only the maximum ERP/EIRP is shown in the report and 5G NR n5/n12/n13/n26 for Ant. 1 and 5G NR n2/n25 for Ant.4.
2. 5G NR supports SA mode(n2/n5/n12/n13/n25/n26) and NSA mode(EN-DC_7A_n5).
3. Pre-scanned conducted power between SA and NSA mode for 5G NR n5, according to the maximum powerthen for SA mode, then SA covers NSA mode for conduted items.

1.5 Modification of EUT

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



1.6 Maximum ERP/EIRP Power and Emission Designator

5G NR n2		QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	1852.5 ~ 1907.5	0.1574	4M48G7D	0.1265	4M48W7D
10	1855.0 ~ 1905.0	0.1567	9M29G7D	0.1250	9M30W7D
15	1857.5 ~ 1902.5	0.1600	14M1G7D	0.1300	14M1W7D
20	1860.0 ~ 1900.0	0.1611	18M9G7D	0.1291	19M0W7D

5G NR n5		QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	826.5 ~ 846.5	0.0668	4M48G7D	0.0530	4M50W7D
10	829.0 ~ 844.0	0.0671	9M28G7D	0.0528	9M29W7D
15	831.5 ~ 841.5	0.0706	14M1G7D	0.0551	14M1W7D
20	834.0 ~ 839.0	0.0711	18M9G7D	0.0556	18M9W7D

5G NR n12		QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	701.5 ~ 713.5	0.0598	4M47G7D	0.0481	4M48W7D
10	704.0 ~ 711.0	0.0597	9M27G7D	0.0481	9M29W7D
15	706.5 ~ 708.5	0.0617	14M1G7D	0.0495	14M1W7D

5G NR n13		QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	779.5 ~ 784.5	0.0638	4M48G7D	0.0521	4M49W7D
10	782.0	0.0631	9M27G7D	0.0513	9M28W7D



5G NR n25		QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	1852.5 ~ 1912.5	0.1596	4M48G7D	0.1276	4M48W7D
10	1855.0 ~ 1910.0	0.1535	9M29G7D	0.1227	9M30W7D
15	1857.5 ~ 1907.5	0.1633	14M1G7D	0.1312	14M1W7D
20	1860.0 ~ 1905.0	0.1626	18M9G7D	0.1294	19M0W7D
25	1862.5 ~ 1902.5	0.1629	23M7G7D	0.1297	23M8W7D
30	1865.0 ~ 1900.0	0.1629	28M6G7D	0.1303	28M6W7D
40	1870.0 ~ 1895.0	0.1641	38M5G7D	0.1324	38M6W7D

5G NR n26		QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	826.5 ~ 846.5	0.0748	4M48G7D	0.0601	4M50W7D
10	829.0 ~ 844.0	0.0746	9M28G7D	0.0603	9M29W7D
15	831.5 ~ 841.5	0.0773	14M1G7D	0.0624	14M1W7D
20	834.0 ~ 839.0	0.0778	18M9G7D	0.0627	18M9W7D

Note:

1. 5G NR Band n25 overlaps the entire frequency range of Band n2. Therefore, the test results provided in this report covers Band n25 as well as Band n2.
2. 5G NR Band n26 overlaps the entire frequency range of Band n5. Therefore, the test results provided in this report covers Band n26 as well as Band n5.
3. All modulations have been tested, and only the worst test results of QPSK & QAM are shown in the report.



1.7 Testing Location

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

Test Firm	Sporton International (Shenzhen) Inc.		
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 Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH03-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH03-SZ	AUDIX	E3	6.2009-8-24

1.9 Applicable Standards

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

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

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




2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

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

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

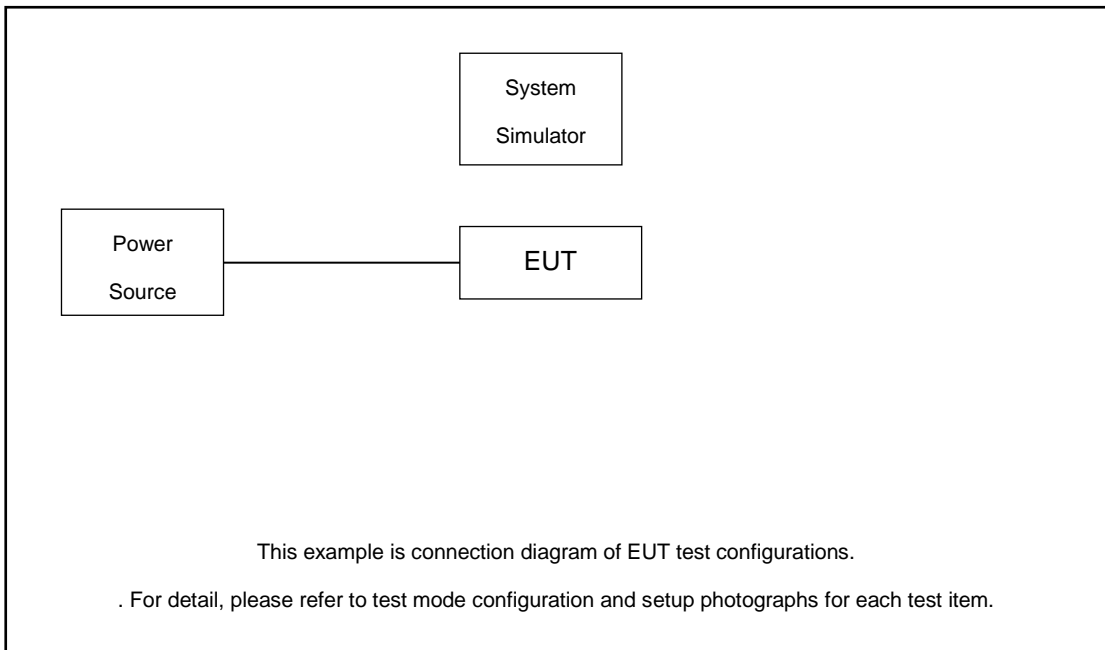
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			

Test Items	5G NR	Bandwidth (MHz)							Modulation					RB #		Test Channel		
		5	10	15	20	25	30	40	PI/2 BPSK	QPSK	16QAM	64QAM	256 QAM	1	Full	L	M	H
Max. Output Power	n2	v	v	v	v	-	-	-		v	v	v	v	v	v	v	v	v
	n5	v	v	v	v	-	-	-		v	v	v	v	v	v	v	v	v
	n12	v	v	v	-	-	-	-		v	v	v	v	v	v	v	v	v
	n13	v		-	-	-	-	-		v	v	v	v	v	v	v	v	v
			v							v	v	v	v	v	v		v	
	n25	v	v	v	v	v	v	v		v	v	v	v	v	v	v	v	v
n26	v	v	v	v					v	v	v	v	v	v	v	v	v	
Peak-to-Average Ratio	n12		v		-	-	-	-		v				v	v	v	v	v
	n13		v	-	-	-	-	-		v				v	v		v	
	n25				v					v				v	v	v	v	v
	n26				v	-	-	-		v				v	v	v	v	v
26dB and 99% Bandwidth	n12	v	v	v	-	-	-	-		v	v	v	v		v		v	
	n13	v	v	-	-	-	-	-		v	v	v	v		v		v	
	n25	v	v	v	v	v	v	v		v	v	v	v		v		v	
	n26	v	v	v	v	-				v	v	v	v		v		v	



Test Items	5G NR	Bandwidth (MHz)							Modulation					RB #		Test Channel		
		5	10	15	20	25	30	40	PI/2 BPSK	QPSK	16QAM	64QAM	256 QAM	1	Full	L	M	H
Conducted Band Edge	n12	v	v	v	-	-	-	-		v				v	v	v		v
	n13	v		-	-	-	-	-		v				v	v	v		v
			v							v				v	v		v	
	n25	v			v			v		v				v	v	v		v
n26	v	v		v	-	-	-		v				v	v	v		v	
Conducted Spurious Emission	n12	v	v	v	-	-	-	-		v				v		v	v	v
	n13	v		-	-	-	-	-		v				v		v	v	v
				v						v				v			v	
	n25	v			v			v		v				v		v	v	v
n26	v	v		v	-	-	-		v				v		v	v	v	
Frequency Stability	n12			v	-	-	-	-		v					v		v	
	n13		v	-	-	-	-	-		v					v		v	
	n25				v					v					v		v	
	n26				v	-	-	-		v					v		v	
E.R.P / E.I.R.P	n12	v	v	v	-	-	-	-		v	v	v	v	v	v	v	v	v
	n13	v	v	-	-	-	-	-		v	v	v	v	v	v	v	v	v
	n25	v	v	v	v	v	v	v		v	v	v	v	v	v	v	v	v
	n26	v	v	v	v	-	-	-		v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	n5	Worst Case															v	
	n12	Worst Case															v	
	n13	Worst Case															v	
	n25	Worst Case															v	
	n26	Worst Case															v	
Note	1. The mark "v" means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. Based on engineering evaluation, only the worst modulation test results are shown 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.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8821C	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 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.

$$\text{Offset} = \text{RF cable loss.}$$

Following shows an offset computation example with cable loss 5.12 dB attenuator.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 5.12 \text{ (dB)} \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

5G NR n2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	388000	392000	396000
	Frequency	1860	1880	1900
15	Channel	387500	392000	396500
	Frequency	1857.5	1880	1902.5
10	Channel	387000	392000	397000
	Frequency	1855	1880	1905
5	Channel	386500	392000	397500
	Frequency	1852.5	1880	1907.5

5G NR n5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	175800	176300	176800
	Frequency	834	836.5	839
15	Channel	175300	176300	177300
	Frequency	831.5	836.5	841.5
10	Channel	174800	176300	177800
	Frequency	829	836.5	844
5	Channel	174300	176300	178300
	Frequency	826.5	836.5	846.5

5G NR n12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	147300	147500	147700
	Frequency	706.5	707.5	708.5
10	Channel	146800	147500	148200
	Frequency	704	707.5	711
5	Channel	146300	147500	148700
	Frequency	701.5	707.5	713.5



5G NR n13 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	150200	-
	Frequency	-	782	-
5	Channel	149700	150200	150700
	Frequency	779.5	782	784.5

5G NR n25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	390000	392500	395000
	Frequency	1870	1882.5	1895
30	Channel	389000	392500	396000
	Frequency	1865	1882.5	1900
25	Channel	388500	392500	396500
	Frequency	1862.5	1882.5	1902.5
20	Channel	388000	392500	397000
	Frequency	1860	1882.5	1905
15	Channel	387500	392500	397500
	Frequency	1857.5	1882.5	1907.5
10	Channel	387000	392500	398000
	Frequency	1855	1882.5	1910
5	Channel	386500	392500	398500
	Frequency	1852.5	1882.5	1912.5

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

3 Conducted Test Items

3.1 Measuring Instruments

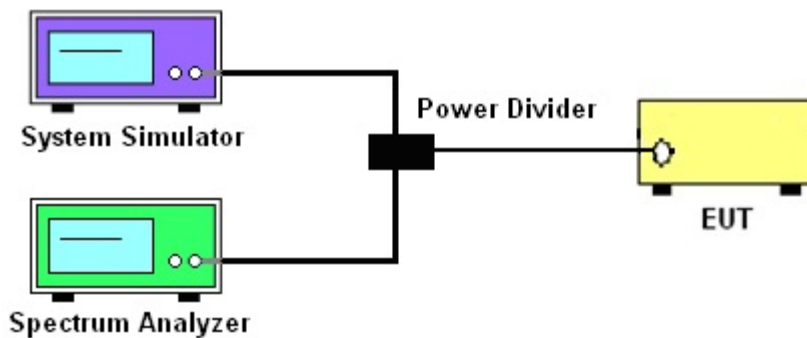
See list of measuring instruments of this test report.

3.2 Test Setup

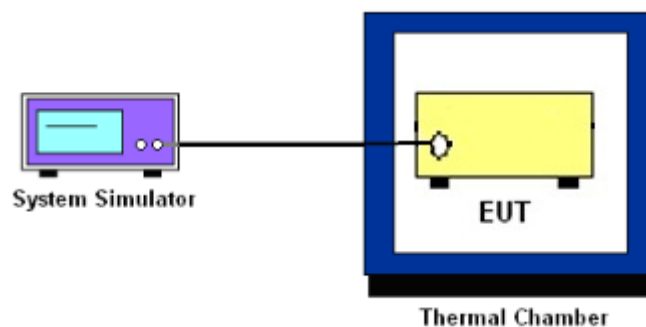
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted 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 and ERP/EIRP

3.4.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

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

The ERP of mobile transmitters must not exceed 7 Watts for 5G NR n5 and n26.

The ERP of mobile transmitters must not exceed 3 Watts for 5G NR n12 and n13.

The EIRP of mobile transmitters must not exceed 2 Watts for 5G NR n2 and n25.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, 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

3.4.2 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 Occupied Bandwidth

3.6.1 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.

3.6.2 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.



3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100kHz bandwidth. However, in the 1MHz 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.

24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (c)

For operations in the 776-788 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least $65 + 10 \log_{10} p(\text{watts})$, dB, for mobile and portable equipment.

27.53 (g)

For operations in the 600MHz band and 698 -746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.



3.7.2 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 in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

Example:

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
= P(W)- [43 + 10log(P)] (dB)
= [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.



3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

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 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. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
= P(W)- [43 + 10log(P)] (dB)
= [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
= -13dBm.



3.9 Frequency Stability

3.9.1 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. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

3.9.2 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.

3.9.3 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.

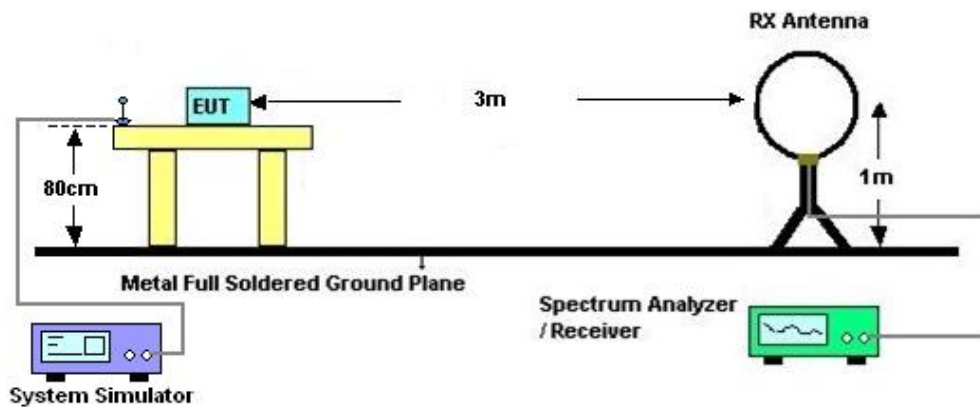
4 Radiated Test Items

4.1 Measuring Instruments

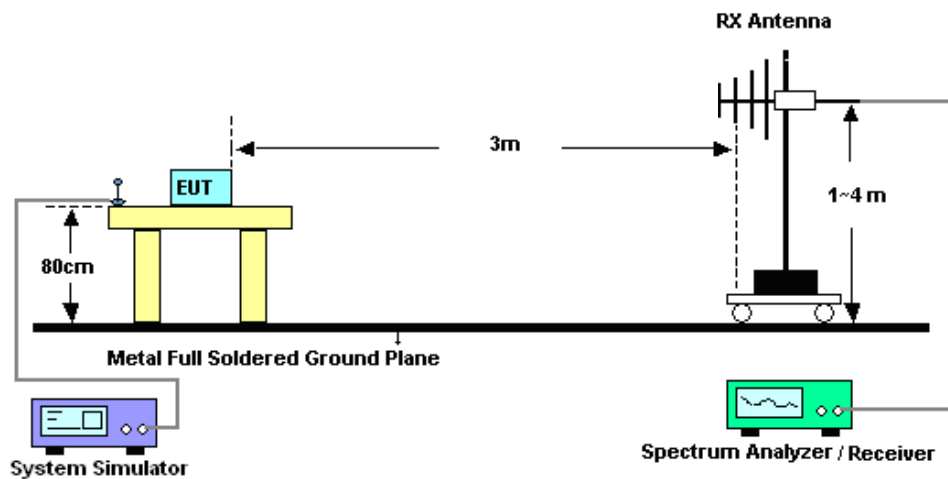
See list of measuring instruments of this test report.

4.2 Test Setup

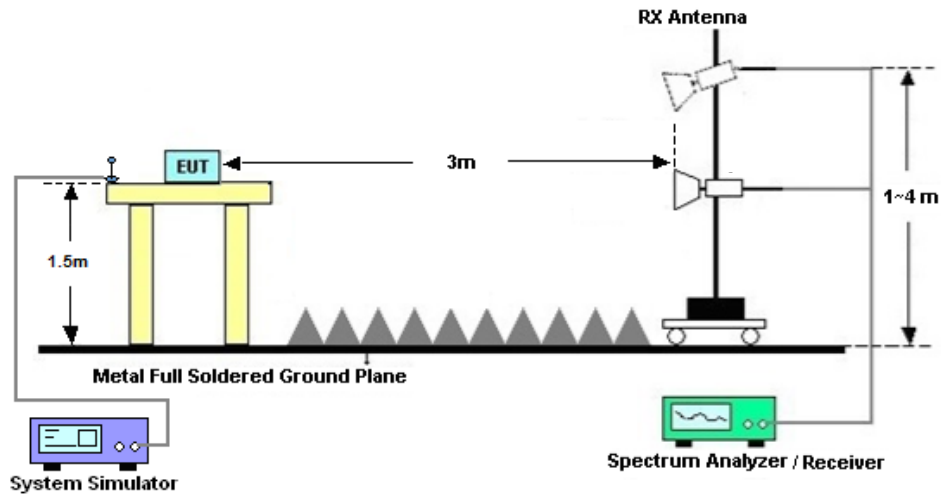
4.2.1 For radiated test below 30MHz



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

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 must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

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

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
= $P(W) - [43 + 10\log(P)] \text{ (dB)}$
= $[30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
= -13dBm.



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 08, 2021	Nov. 02, 2021~Nov. 29, 2021	Apr. 07, 2022	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 26, 2020	Nov. 02, 2021~Nov. 29, 2021	Dec. 25, 2021	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 14, 2021	Nov. 02, 2021~Nov. 29, 2021	Jul. 13, 2022	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 07, 2021	Nov. 17, 2021	Apr. 06, 2022	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2021	Nov. 17, 2021	Jun. 21, 2022	Radiation (03CH03-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 07, 2021	Nov. 17, 2021	Apr. 06, 2022	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz~2GHz	Jun. 22, 2021	Nov. 17, 2021	Jun. 21, 2022	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 25, 2021	Nov. 17, 2021	Apr. 24, 2022	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 22, 2021	Nov. 17, 2021	Oct. 21, 2022	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Oct. 22, 2021	Nov. 17, 2021	Oct. 21, 2022	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 11, 2021	Nov. 17, 2021	Apr. 10, 2022	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 30, 2020	Nov. 17, 2021	Dec. 29, 2021	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Nov. 17, 2021	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Nov. 17, 2021	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Nov. 17, 2021	NCR	Radiation (03CH03-SZ)

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))	3.0dB
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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))	3.6dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.8dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

Test Engineer :	Chen Hong	Temperature :	24~26°C
		Relative Humidity :	50~53%

FR1 N2

<Ant. 4>

Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)= -1.0dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
2	15	5	386500	1852.5	DFT-s-OFDM QPSK	12@6	22.64	21.64	0.1459
2	15	5	386500	1852.5	DFT-s-OFDM QPSK	1@1	22.62	21.62	0.1452
2	15	5	386500	1852.5	DFT-s-OFDM QPSK	1@23	22.55	21.55	0.1429
2	15	5	386500	1852.5	DFT-s-OFDM 16 QAM	12@6	21.46	20.46	0.1112
2	15	5	386500	1852.5	DFT-s-OFDM 16 QAM	1@1	21.64	20.64	0.1159
2	15	5	386500	1852.5	DFT-s-OFDM 16 QAM	1@23	21.59	20.59	0.1146
2	15	5	386500	1852.5	DFT-s-OFDM 64 QAM	12@6	20.11	19.11	0.0815
2	15	5	386500	1852.5	DFT-s-OFDM 64 QAM	1@1	20.2	19.2	0.0832
2	15	5	386500	1852.5	DFT-s-OFDM 64 QAM	1@23	20.07	19.07	0.0807
2	15	5	386500	1852.5	DFT-s-OFDM 256 QAM	12@6	18.03	17.03	0.0505
2	15	5	386500	1852.5	DFT-s-OFDM 256 QAM	1@1	17.83	16.83	0.0482
2	15	5	386500	1852.5	DFT-s-OFDM 256 QAM	1@23	17.7	16.7	0.0468
2	15	5	386500	1852.5	CP-OFDM QPSK	13@6	21.33	20.33	0.1079
2	15	5	386500	1852.5	CP-OFDM QPSK	1@1	21.05	20.05	0.1012
2	15	5	386500	1852.5	CP-OFDM QPSK	1@23	20.95	19.95	0.0989
2	15	5	392000	1880	DFT-s-OFDM QPSK	12@6	22.97	21.97	0.1574
2	15	5	392000	1880	DFT-s-OFDM QPSK	1@1	22.97	21.97	0.1574
2	15	5	392000	1880	DFT-s-OFDM QPSK	1@23	22.91	21.91	0.1552
2	15	5	392000	1880	DFT-s-OFDM 16 QAM	12@6	21.85	20.85	0.1216
2	15	5	392000	1880	DFT-s-OFDM 16 QAM	1@1	22.02	21.02	0.1265
2	15	5	392000	1880	DFT-s-OFDM 16 QAM	1@23	21.93	20.93	0.1239
2	15	5	392000	1880	DFT-s-OFDM 64 QAM	12@6	20.51	19.51	0.0893
2	15	5	392000	1880	DFT-s-OFDM 64 QAM	1@1	20.52	19.52	0.0895
2	15	5	392000	1880	DFT-s-OFDM 64 QAM	1@23	20.46	19.46	0.0883
2	15	5	392000	1880	DFT-s-OFDM 256 QAM	12@6	18.36	17.36	0.0545
2	15	5	392000	1880	DFT-s-OFDM 256 QAM	1@1	18.2	17.2	0.0525
2	15	5	392000	1880	DFT-s-OFDM 256 QAM	1@23	18.09	17.09	0.0512
2	15	5	392000	1880	CP-OFDM	13@6	21.47	20.47	0.1114

					QPSK					
2	15	5	392000	1880	CP-OFDM QPSK	1@1	21.27	20.27	0.1064	
2	15	5	392000	1880	CP-OFDM QPSK	1@23	21.16	20.16	0.1038	
2	15	5	397500	1907.5	DFT-s-OFDM QPSK	12@6	22.72	21.72	0.1486	
2	15	5	397500	1907.5	DFT-s-OFDM QPSK	1@1	22.77	21.77	0.1503	
2	15	5	397500	1907.5	DFT-s-OFDM QPSK	1@23	22.73	21.73	0.1489	
2	15	5	397500	1907.5	DFT-s-OFDM 16 QAM	12@6	21.65	20.65	0.1161	
2	15	5	397500	1907.5	DFT-s-OFDM 16 QAM	1@1	21.85	20.85	0.1216	
2	15	5	397500	1907.5	DFT-s-OFDM 16 QAM	1@23	21.76	20.76	0.1191	
2	15	5	397500	1907.5	DFT-s-OFDM 64 QAM	12@6	20.27	19.27	0.0845	
2	15	5	397500	1907.5	DFT-s-OFDM 64 QAM	1@1	20.33	19.33	0.0857	
2	15	5	397500	1907.5	DFT-s-OFDM 64 QAM	1@23	20.24	19.24	0.0839	
2	15	5	397500	1907.5	DFT-s-OFDM 256 QAM	12@6	18.16	17.16	0.0520	
2	15	5	397500	1907.5	DFT-s-OFDM 256 QAM	1@1	18.04	17.04	0.0506	
2	15	5	397500	1907.5	DFT-s-OFDM 256 QAM	1@23	17.92	16.92	0.0492	
2	15	5	397500	1907.5	CP-OFDM QPSK	13@6	21.26	20.26	0.1062	
2	15	5	397500	1907.5	CP-OFDM QPSK	1@1	21.12	20.12	0.1028	
2	15	5	397500	1907.5	CP-OFDM QPSK	1@23	20.9	19.9	0.0977	
2	15	10	387000	1855	DFT-s-OFDM QPSK	25@12	22.86	21.86	0.1535	
2	15	10	387000	1855	DFT-s-OFDM QPSK	1@1	22.86	21.86	0.1535	
2	15	10	387000	1855	DFT-s-OFDM QPSK	1@50	22.85	21.85	0.1531	
2	15	10	387000	1855	DFT-s-OFDM 16 QAM	25@12	21.86	20.86	0.1219	
2	15	10	387000	1855	DFT-s-OFDM 16 QAM	1@1	21.95	20.95	0.1245	
2	15	10	387000	1855	DFT-s-OFDM 16 QAM	1@50	21.89	20.89	0.1227	
2	15	10	387000	1855	DFT-s-OFDM 64 QAM	25@12	20.44	19.44	0.0879	
2	15	10	387000	1855	DFT-s-OFDM 64 QAM	1@1	20.44	19.44	0.0879	
2	15	10	387000	1855	DFT-s-OFDM 64 QAM	1@50	20.37	19.37	0.0865	
2	15	10	387000	1855	DFT-s-OFDM 256 QAM	25@12	18.28	17.28	0.0535	
2	15	10	387000	1855	DFT-s-OFDM 256 QAM	1@1	18.12	17.12	0.0515	
2	15	10	387000	1855	DFT-s-OFDM 256 QAM	1@50	18	17	0.0501	
2	15	10	387000	1855	CP-OFDM QPSK	26@13	21.31	20.31	0.1074	
2	15	10	387000	1855	CP-OFDM QPSK	1@1	21.2	20.2	0.1047	
2	15	10	387000	1855	CP-OFDM QPSK	1@50	21.15	20.15	0.1035	
2	15	10	392000	1880	DFT-s-OFDM QPSK	25@12	22.94	21.94	0.1563	

2	15	10	392000	1880	DFT-s-OFDM QPSK	1@1	22.9	21.9	0.1549
2	15	10	392000	1880	DFT-s-OFDM QPSK	1@50	22.95	21.95	0.1567
2	15	10	392000	1880	DFT-s-OFDM 16 QAM	25@12	21.95	20.95	0.1245
2	15	10	392000	1880	DFT-s-OFDM 16 QAM	1@1	21.97	20.97	0.1250
2	15	10	392000	1880	DFT-s-OFDM 16 QAM	1@50	21.93	20.93	0.1239
2	15	10	392000	1880	DFT-s-OFDM 64 QAM	25@12	20.55	19.55	0.0902
2	15	10	392000	1880	DFT-s-OFDM 64 QAM	1@1	20.41	19.41	0.0873
2	15	10	392000	1880	DFT-s-OFDM 64 QAM	1@50	20.48	19.48	0.0887
2	15	10	392000	1880	DFT-s-OFDM 256 QAM	25@12	18.36	17.36	0.0545
2	15	10	392000	1880	DFT-s-OFDM 256 QAM	1@1	18.15	17.15	0.0519
2	15	10	392000	1880	DFT-s-OFDM 256 QAM	1@50	18.14	17.14	0.0518
2	15	10	392000	1880	CP-OFDM QPSK	26@13	21.43	20.43	0.1104
2	15	10	392000	1880	CP-OFDM QPSK	1@1	21.19	20.19	0.1045
2	15	10	392000	1880	CP-OFDM QPSK	1@50	21.27	20.27	0.1064
2	15	10	397000	1905	DFT-s-OFDM QPSK	25@12	22.77	21.77	0.1503
2	15	10	397000	1905	DFT-s-OFDM QPSK	1@1	22.8	21.8	0.1514
2	15	10	397000	1905	DFT-s-OFDM QPSK	1@50	22.75	21.75	0.1496
2	15	10	397000	1905	DFT-s-OFDM 16 QAM	25@12	21.78	20.78	0.1197
2	15	10	397000	1905	DFT-s-OFDM 16 QAM	1@1	21.88	20.88	0.1225
2	15	10	397000	1905	DFT-s-OFDM 16 QAM	1@50	21.83	20.83	0.1211
2	15	10	397000	1905	DFT-s-OFDM 64 QAM	25@12	20.39	19.39	0.0869
2	15	10	397000	1905	DFT-s-OFDM 64 QAM	1@1	20.4	19.4	0.0871
2	15	10	397000	1905	DFT-s-OFDM 64 QAM	1@50	20.31	19.31	0.0853
2	15	10	397000	1905	DFT-s-OFDM 256 QAM	25@12	18.23	17.23	0.0528
2	15	10	397000	1905	DFT-s-OFDM 256 QAM	1@1	18.08	17.08	0.0511
2	15	10	397000	1905	DFT-s-OFDM 256 QAM	1@50	17.97	16.97	0.0498
2	15	10	397000	1905	CP-OFDM QPSK	26@13	21.24	20.24	0.1057
2	15	10	397000	1905	CP-OFDM QPSK	1@1	21.11	20.11	0.1026
2	15	10	397000	1905	CP-OFDM QPSK	1@50	21.06	20.06	0.1014
2	15	15	387500	1857.5	DFT-s-OFDM QPSK	36@18	22.94	21.94	0.1563
2	15	15	387500	1857.5	DFT-s-OFDM QPSK	1@1	22.98	21.98	0.1578
2	15	15	387500	1857.5	DFT-s-OFDM QPSK	1@77	23.01	22.01	0.1589
2	15	15	387500	1857.5	DFT-s-OFDM 16 QAM	36@18	21.95	20.95	0.1245
2	15	15	387500	1857.5	DFT-s-OFDM 16 QAM	1@1	22.07	21.07	0.1279

2	15	15	387500	1857.5	DFT-s-OFDM 16 QAM	1@77	22.11	21.11	0.1291
2	15	15	387500	1857.5	DFT-s-OFDM 64 QAM	36@18	20.45	19.45	0.0881
2	15	15	387500	1857.5	DFT-s-OFDM 64 QAM	1@1	20.54	19.54	0.0899
2	15	15	387500	1857.5	DFT-s-OFDM 64 QAM	1@77	20.6	19.6	0.0912
2	15	15	387500	1857.5	DFT-s-OFDM 256 QAM	36@18	18.34	17.34	0.0542
2	15	15	387500	1857.5	DFT-s-OFDM 256 QAM	1@1	18.2	17.2	0.0525
2	15	15	387500	1857.5	DFT-s-OFDM 256 QAM	1@77	18.31	17.31	0.0538
2	15	15	387500	1857.5	CP-OFDM QPSK	39@19	21.42	20.42	0.1102
2	15	15	387500	1857.5	CP-OFDM QPSK	1@1	21.57	20.57	0.1140
2	15	15	387500	1857.5	CP-OFDM QPSK	1@77	21.45	20.45	0.1109
2	15	15	392000	1880	DFT-s-OFDM QPSK	36@18	23.04	22.04	0.1600
2	15	15	392000	1880	DFT-s-OFDM QPSK	1@1	23	22	0.1585
2	15	15	392000	1880	DFT-s-OFDM QPSK	1@77	23.03	22.03	0.1596
2	15	15	392000	1880	DFT-s-OFDM 16 QAM	36@18	22.03	21.03	0.1268
2	15	15	392000	1880	DFT-s-OFDM 16 QAM	1@1	22.08	21.08	0.1282
2	15	15	392000	1880	DFT-s-OFDM 16 QAM	1@77	22.14	21.14	0.1300
2	15	15	392000	1880	DFT-s-OFDM 64 QAM	36@18	20.59	19.59	0.0910
2	15	15	392000	1880	DFT-s-OFDM 64 QAM	1@1	20.59	19.59	0.0910
2	15	15	392000	1880	DFT-s-OFDM 64 QAM	1@77	20.56	19.56	0.0904
2	15	15	392000	1880	DFT-s-OFDM 256 QAM	36@18	18.45	17.45	0.0556
2	15	15	392000	1880	DFT-s-OFDM 256 QAM	1@1	18.3	17.3	0.0537
2	15	15	392000	1880	DFT-s-OFDM 256 QAM	1@77	18.27	17.27	0.0533
2	15	15	392000	1880	CP-OFDM QPSK	39@19	21.51	20.51	0.1125
2	15	15	392000	1880	CP-OFDM QPSK	1@1	21.44	20.44	0.1107
2	15	15	392000	1880	CP-OFDM QPSK	1@77	21.4	20.4	0.1096
2	15	15	396500	1902.5	DFT-s-OFDM QPSK	36@18	22.99	21.99	0.1581
2	15	15	396500	1902.5	DFT-s-OFDM QPSK	1@1	23.01	22.01	0.1589
2	15	15	396500	1902.5	DFT-s-OFDM QPSK	1@77	22.87	21.87	0.1538
2	15	15	396500	1902.5	DFT-s-OFDM 16 QAM	36@18	21.98	20.98	0.1253
2	15	15	396500	1902.5	DFT-s-OFDM 16 QAM	1@1	22.04	21.04	0.1271
2	15	15	396500	1902.5	DFT-s-OFDM 16 QAM	1@77	21.97	20.97	0.1250
2	15	15	396500	1902.5	DFT-s-OFDM 64 QAM	36@18	20.51	19.51	0.0893
2	15	15	396500	1902.5	DFT-s-OFDM 64 QAM	1@1	20.55	19.55	0.0902
2	15	15	396500	1902.5	DFT-s-OFDM 64 QAM	1@77	20.54	19.54	0.0899

2	15	15	396500	1902.5	DFT-s-OFDM 256 QAM	36@18	18.38	17.38	0.0547
2	15	15	396500	1902.5	DFT-s-OFDM 256 QAM	1@1	18.25	17.25	0.0531
2	15	15	396500	1902.5	DFT-s-OFDM 256 QAM	1@77	18.15	17.15	0.0519
2	15	15	396500	1902.5	CP-OFDM QPSK	39@19	21.44	20.44	0.1107
2	15	15	396500	1902.5	CP-OFDM QPSK	1@1	21.24	20.24	0.1057
2	15	15	396500	1902.5	CP-OFDM QPSK	1@77	21.4	20.4	0.1096
2	15	20	388000	1860	DFT-s-OFDM QPSK	50@25	22.92	21.92	0.1556
2	15	20	388000	1860	DFT-s-OFDM QPSK	1@1	22.96	21.96	0.1570
2	15	20	388000	1860	DFT-s-OFDM QPSK	1@104	23	22	0.1585
2	15	20	388000	1860	DFT-s-OFDM 16 QAM	50@25	21.87	20.87	0.1222
2	15	20	388000	1860	DFT-s-OFDM 16 QAM	1@1	21.96	20.96	0.1247
2	15	20	388000	1860	DFT-s-OFDM 16 QAM	1@104	22.04	21.04	0.1271
2	15	20	388000	1860	DFT-s-OFDM 64 QAM	50@25	20.46	19.46	0.0883
2	15	20	388000	1860	DFT-s-OFDM 64 QAM	1@1	20.5	19.5	0.0891
2	15	20	388000	1860	DFT-s-OFDM 64 QAM	1@104	20.55	19.55	0.0902
2	15	20	388000	1860	DFT-s-OFDM 256 QAM	50@25	18.35	17.35	0.0543
2	15	20	388000	1860	DFT-s-OFDM 256 QAM	1@1	18.19	17.19	0.0524
2	15	20	388000	1860	DFT-s-OFDM 256 QAM	1@104	18.24	17.24	0.0530
2	15	20	388000	1860	CP-OFDM QPSK	53@26	21.43	20.43	0.1104
2	15	20	388000	1860	CP-OFDM QPSK	1@1	21.52	20.52	0.1127
2	15	20	388000	1860	CP-OFDM QPSK	1@104	21.36	20.36	0.1086
2	15	20	392000	1880	DFT-s-OFDM QPSK	50@25	23.07	22.07	0.1611
2	15	20	392000	1880	DFT-s-OFDM QPSK	1@1	22.92	21.92	0.1556
2	15	20	392000	1880	DFT-s-OFDM QPSK	1@104	23.03	22.03	0.1596
2	15	20	392000	1880	DFT-s-OFDM 16 QAM	50@25	22.01	21.01	0.1262
2	15	20	392000	1880	DFT-s-OFDM 16 QAM	1@1	21.99	20.99	0.1256
2	15	20	392000	1880	DFT-s-OFDM 16 QAM	1@104	22.11	21.11	0.1291
2	15	20	392000	1880	DFT-s-OFDM 64 QAM	50@25	20.61	19.61	0.0914
2	15	20	392000	1880	DFT-s-OFDM 64 QAM	1@1	20.52	19.52	0.0895
2	15	20	392000	1880	DFT-s-OFDM 64 QAM	1@104	20.63	19.63	0.0918
2	15	20	392000	1880	DFT-s-OFDM 256 QAM	50@25	18.51	17.51	0.0564
2	15	20	392000	1880	DFT-s-OFDM 256 QAM	1@1	18.17	17.17	0.0521
2	15	20	392000	1880	DFT-s-OFDM 256 QAM	1@104	18.26	17.26	0.0532
2	15	20	392000	1880	CP-OFDM QPSK	53@26	21.54	20.54	0.1132

2	15	20	392000	1880	CP-OFDM QPSK	1@1	21.53	20.53	0.1130
2	15	20	392000	1880	CP-OFDM QPSK	1@104	21.41	20.41	0.1099
2	15	20	396000	1900	DFT-s-OFDM QPSK	50@25	23.01	22.01	0.1589
2	15	20	396000	1900	DFT-s-OFDM QPSK	1@1	22.96	21.96	0.1570
2	15	20	396000	1900	DFT-s-OFDM QPSK	1@104	22.96	21.96	0.1570
2	15	20	396000	1900	DFT-s-OFDM 16 QAM	50@25	21.93	20.93	0.1239
2	15	20	396000	1900	DFT-s-OFDM 16 QAM	1@1	22.02	21.02	0.1265
2	15	20	396000	1900	DFT-s-OFDM 16 QAM	1@104	21.96	20.96	0.1247
2	15	20	396000	1900	DFT-s-OFDM 64 QAM	50@25	20.49	19.49	0.0889
2	15	20	396000	1900	DFT-s-OFDM 64 QAM	1@1	20.51	19.51	0.0893
2	15	20	396000	1900	DFT-s-OFDM 64 QAM	1@104	20.51	19.51	0.0893
2	15	20	396000	1900	DFT-s-OFDM 256 QAM	50@25	18.44	17.44	0.0555
2	15	20	396000	1900	DFT-s-OFDM 256 QAM	1@1	18.24	17.24	0.0530
2	15	20	396000	1900	DFT-s-OFDM 256 QAM	1@104	18.18	17.18	0.0522
2	15	20	396000	1900	CP-OFDM QPSK	53@26	21.45	20.45	0.1109
2	15	20	396000	1900	CP-OFDM QPSK	1@1	21.59	20.59	0.1146
2	15	20	396000	1900	CP-OFDM QPSK	1@104	21.31	20.31	0.1074

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<Ant. 1>

Transmitter Conducted Output Power And ERP, (GT - LC)= -2.5dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	ERP(dBm)	ERP(W)
5	15	5	174300	826.5	DFT-s-OFDM QPSK	12@6	22.75	18.1	0.0646
5	15	5	174300	826.5	DFT-s-OFDM QPSK	1@1	22.9	18.25	0.0668
5	15	5	174300	826.5	DFT-s-OFDM QPSK	1@23	22.88	18.23	0.0665
5	15	5	174300	826.5	DFT-s-OFDM 16 QAM	12@6	21.87	17.22	0.0527
5	15	5	174300	826.5	DFT-s-OFDM 16 QAM	1@1	21.88	17.23	0.0528
5	15	5	174300	826.5	DFT-s-OFDM 16 QAM	1@23	21.79	17.14	0.0518
5	15	5	174300	826.5	DFT-s-OFDM 64 QAM	12@6	20.36	15.71	0.0372
5	15	5	174300	826.5	DFT-s-OFDM 64 QAM	1@1	20.47	15.82	0.0382
5	15	5	174300	826.5	DFT-s-OFDM 64 QAM	1@23	20.52	15.87	0.0386
5	15	5	174300	826.5	DFT-s-OFDM 256 QAM	12@6	18.28	13.63	0.0231
5	15	5	174300	826.5	DFT-s-OFDM 256 QAM	1@1	17.81	13.16	0.0207
5	15	5	174300	826.5	DFT-s-OFDM 256 QAM	1@23	17.8	13.15	0.0207
5	15	5	174300	826.5	CP-OFDM QPSK	13@6	21.18	16.53	0.0450
5	15	5	174300	826.5	CP-OFDM QPSK	1@1	21.38	16.73	0.0471
5	15	5	174300	826.5	CP-OFDM QPSK	1@23	21.27	16.62	0.0459
5	15	5	176300	836.5	DFT-s-OFDM QPSK	12@6	22.8	18.15	0.0653
5	15	5	176300	836.5	DFT-s-OFDM QPSK	1@1	22.86	18.21	0.0662
5	15	5	176300	836.5	DFT-s-OFDM QPSK	1@23	22.84	18.19	0.0659
5	15	5	176300	836.5	DFT-s-OFDM 16 QAM	12@6	21.89	17.24	0.0530
5	15	5	176300	836.5	DFT-s-OFDM 16 QAM	1@1	21.84	17.19	0.0524
5	15	5	176300	836.5	DFT-s-OFDM 16 QAM	1@23	21.8	17.15	0.0519
5	15	5	176300	836.5	DFT-s-OFDM 64 QAM	12@6	20.38	15.73	0.0374
5	15	5	176300	836.5	DFT-s-OFDM 64 QAM	1@1	20.49	15.84	0.0384
5	15	5	176300	836.5	DFT-s-OFDM 64 QAM	1@23	20.45	15.8	0.0380
5	15	5	176300	836.5	DFT-s-OFDM 256 QAM	12@6	17.89	13.24	0.0211
5	15	5	176300	836.5	DFT-s-OFDM 256 QAM	1@1	17.84	13.19	0.0208
5	15	5	176300	836.5	DFT-s-OFDM 256 QAM	1@23	17.74	13.09	0.0204
5	15	5	176300	836.5	CP-OFDM	13@6	21.23	16.58	0.0455

					QPSK				
5	15	5	176300	836.5	CP-OFDM QPSK	1@1	21.39	16.74	0.0472
5	15	5	176300	836.5	CP-OFDM QPSK	1@23	21.21	16.56	0.0453
5	15	5	178300	846.5	DFT-s-OFDM QPSK	12@6	22.77	18.12	0.0649
5	15	5	178300	846.5	DFT-s-OFDM QPSK	1@1	22.85	18.2	0.0661
5	15	5	178300	846.5	DFT-s-OFDM QPSK	1@23	22.77	18.12	0.0649
5	15	5	178300	846.5	DFT-s-OFDM 16 QAM	12@6	21.86	17.21	0.0526
5	15	5	178300	846.5	DFT-s-OFDM 16 QAM	1@1	21.84	17.19	0.0524
5	15	5	178300	846.5	DFT-s-OFDM 16 QAM	1@23	21.82	17.17	0.0521
5	15	5	178300	846.5	DFT-s-OFDM 64 QAM	12@6	20.35	15.7	0.0372
5	15	5	178300	846.5	DFT-s-OFDM 64 QAM	1@1	20.5	15.85	0.0385
5	15	5	178300	846.5	DFT-s-OFDM 64 QAM	1@23	20.45	15.8	0.0380
5	15	5	178300	846.5	DFT-s-OFDM 256 QAM	12@6	18.31	13.66	0.0232
5	15	5	178300	846.5	DFT-s-OFDM 256 QAM	1@1	17.78	13.13	0.0206
5	15	5	178300	846.5	DFT-s-OFDM 256 QAM	1@23	17.74	13.09	0.0204
5	15	5	178300	846.5	CP-OFDM QPSK	13@6	21.2	16.55	0.0452
5	15	5	178300	846.5	CP-OFDM QPSK	1@1	21.41	16.76	0.0474
5	15	5	178300	846.5	CP-OFDM QPSK	1@23	21.2	16.55	0.0452
5	15	10	174800	829	DFT-s-OFDM QPSK	25@12	22.77	18.12	0.0649
5	15	10	174800	829	DFT-s-OFDM QPSK	1@1	22.92	18.27	0.0671
5	15	10	174800	829	DFT-s-OFDM QPSK	1@50	22.82	18.17	0.0656
5	15	10	174800	829	DFT-s-OFDM 16 QAM	25@12	21.85	17.2	0.0525
5	15	10	174800	829	DFT-s-OFDM 16 QAM	1@1	21.88	17.23	0.0528
5	15	10	174800	829	DFT-s-OFDM 16 QAM	1@50	21.72	17.07	0.0509
5	15	10	174800	829	DFT-s-OFDM 64 QAM	25@12	20.32	15.67	0.0369
5	15	10	174800	829	DFT-s-OFDM 64 QAM	1@1	20.52	15.87	0.0386
5	15	10	174800	829	DFT-s-OFDM 64 QAM	1@50	20.42	15.77	0.0378
5	15	10	174800	829	DFT-s-OFDM 256 QAM	25@12	18.27	13.62	0.0230
5	15	10	174800	829	DFT-s-OFDM 256 QAM	1@1	17.81	13.16	0.0207
5	15	10	174800	829	DFT-s-OFDM 256 QAM	1@50	17.73	13.08	0.0203
5	15	10	174800	829	CP-OFDM QPSK	26@13	21.27	16.62	0.0459
5	15	10	174800	829	CP-OFDM QPSK	1@1	21.39	16.74	0.0472
5	15	10	174800	829	CP-OFDM QPSK	1@50	21.23	16.58	0.0455
5	15	10	176300	836.5	DFT-s-OFDM QPSK	25@12	22.77	18.12	0.0649

5	15	10	176300	836.5	DFT-s-OFDM QPSK	1@1	22.86	18.21	0.0662
5	15	10	176300	836.5	DFT-s-OFDM QPSK	1@50	22.84	18.19	0.0659
5	15	10	176300	836.5	DFT-s-OFDM 16 QAM	25@12	21.83	17.18	0.0522
5	15	10	176300	836.5	DFT-s-OFDM 16 QAM	1@1	21.79	17.14	0.0518
5	15	10	176300	836.5	DFT-s-OFDM 16 QAM	1@50	21.79	17.14	0.0518
5	15	10	176300	836.5	DFT-s-OFDM 64 QAM	25@12	20.32	15.67	0.0369
5	15	10	176300	836.5	DFT-s-OFDM 64 QAM	1@1	20.43	15.78	0.0378
5	15	10	176300	836.5	DFT-s-OFDM 64 QAM	1@50	20.55	15.9	0.0389
5	15	10	176300	836.5	DFT-s-OFDM 256 QAM	25@12	17.89	13.24	0.0211
5	15	10	176300	836.5	DFT-s-OFDM 256 QAM	1@1	17.75	13.1	0.0204
5	15	10	176300	836.5	DFT-s-OFDM 256 QAM	1@50	17.71	13.06	0.0202
5	15	10	176300	836.5	CP-OFDM QPSK	26@13	21.36	16.71	0.0469
5	15	10	176300	836.5	CP-OFDM QPSK	1@1	21.31	16.66	0.0463
5	15	10	176300	836.5	CP-OFDM QPSK	1@50	21.31	16.66	0.0463
5	15	10	177800	844	DFT-s-OFDM QPSK	25@12	22.86	18.21	0.0662
5	15	10	177800	844	DFT-s-OFDM QPSK	1@1	22.84	18.19	0.0659
5	15	10	177800	844	DFT-s-OFDM QPSK	1@50	22.84	18.19	0.0659
5	15	10	177800	844	DFT-s-OFDM 16 QAM	25@12	21.84	17.19	0.0524
5	15	10	177800	844	DFT-s-OFDM 16 QAM	1@1	21.83	17.18	0.0522
5	15	10	177800	844	DFT-s-OFDM 16 QAM	1@50	21.77	17.12	0.0515
5	15	10	177800	844	DFT-s-OFDM 64 QAM	25@12	20.33	15.68	0.0370
5	15	10	177800	844	DFT-s-OFDM 64 QAM	1@1	20.49	15.84	0.0384
5	15	10	177800	844	DFT-s-OFDM 64 QAM	1@50	20.46	15.81	0.0381
5	15	10	177800	844	DFT-s-OFDM 256 QAM	25@12	18.27	13.62	0.0230
5	15	10	177800	844	DFT-s-OFDM 256 QAM	1@1	17.75	13.1	0.0204
5	15	10	177800	844	DFT-s-OFDM 256 QAM	1@50	17.76	13.11	0.0205
5	15	10	177800	844	CP-OFDM QPSK	26@13	21.31	16.66	0.0463
5	15	10	177800	844	CP-OFDM QPSK	1@1	21.29	16.64	0.0461
5	15	10	177800	844	CP-OFDM QPSK	1@50	21.28	16.63	0.0460
5	15	15	175300	831.5	DFT-s-OFDM QPSK	36@18	23.03	18.38	0.0689
5	15	15	175300	831.5	DFT-s-OFDM QPSK	1@1	23.07	18.42	0.0695
5	15	15	175300	831.5	DFT-s-OFDM QPSK	1@77	22.93	18.28	0.0673
5	15	15	175300	831.5	DFT-s-OFDM 16 QAM	36@18	22.06	17.41	0.0551
5	15	15	175300	831.5	DFT-s-OFDM 16 QAM	1@1	22.06	17.41	0.0551

5	15	15	175300	831.5	DFT-s-OFDM 16 QAM	1@77	21.96	17.31	0.0538
5	15	15	175300	831.5	DFT-s-OFDM 64 QAM	36@18	20.6	15.95	0.0394
5	15	15	175300	831.5	DFT-s-OFDM 64 QAM	1@1	20.69	16.04	0.0402
5	15	15	175300	831.5	DFT-s-OFDM 64 QAM	1@77	20.57	15.92	0.0391
5	15	15	175300	831.5	DFT-s-OFDM 256 QAM	36@18	18.01	13.36	0.0217
5	15	15	175300	831.5	DFT-s-OFDM 256 QAM	1@1	18.05	13.4	0.0219
5	15	15	175300	831.5	DFT-s-OFDM 256 QAM	1@77	17.83	13.18	0.0208
5	15	15	175300	831.5	CP-OFDM QPSK	39@19	21.47	16.82	0.0481
5	15	15	175300	831.5	CP-OFDM QPSK	1@1	21.55	16.9	0.0490
5	15	15	175300	831.5	CP-OFDM QPSK	1@77	21.32	16.67	0.0465
5	15	15	176300	836.5	DFT-s-OFDM QPSK	36@18	22.93	18.28	0.0673
5	15	15	176300	836.5	DFT-s-OFDM QPSK	1@1	23.14	18.49	0.0706
5	15	15	176300	836.5	DFT-s-OFDM QPSK	1@77	22.98	18.33	0.0681
5	15	15	176300	836.5	DFT-s-OFDM 16 QAM	36@18	21.98	17.33	0.0541
5	15	15	176300	836.5	DFT-s-OFDM 16 QAM	1@1	22.06	17.41	0.0551
5	15	15	176300	836.5	DFT-s-OFDM 16 QAM	1@77	21.94	17.29	0.0536
5	15	15	176300	836.5	DFT-s-OFDM 64 QAM	36@18	20.5	15.85	0.0385
5	15	15	176300	836.5	DFT-s-OFDM 64 QAM	1@1	20.7	16.05	0.0403
5	15	15	176300	836.5	DFT-s-OFDM 64 QAM	1@77	20.65	16	0.0398
5	15	15	176300	836.5	DFT-s-OFDM 256 QAM	36@18	18.13	13.48	0.0223
5	15	15	176300	836.5	DFT-s-OFDM 256 QAM	1@1	18.12	13.47	0.0222
5	15	15	176300	836.5	DFT-s-OFDM 256 QAM	1@77	17.98	13.33	0.0215
5	15	15	176300	836.5	CP-OFDM QPSK	39@19	21.46	16.81	0.0480
5	15	15	176300	836.5	CP-OFDM QPSK	1@1	21.61	16.96	0.0497
5	15	15	176300	836.5	CP-OFDM QPSK	1@77	21.39	16.74	0.0472
5	15	15	177300	841.5	DFT-s-OFDM QPSK	36@18	22.92	18.27	0.0671
5	15	15	177300	841.5	DFT-s-OFDM QPSK	1@1	22.99	18.34	0.0682
5	15	15	177300	841.5	DFT-s-OFDM QPSK	1@77	22.9	18.25	0.0668
5	15	15	177300	841.5	DFT-s-OFDM 16 QAM	36@18	21.94	17.29	0.0536
5	15	15	177300	841.5	DFT-s-OFDM 16 QAM	1@1	21.94	17.29	0.0536
5	15	15	177300	841.5	DFT-s-OFDM 16 QAM	1@77	21.86	17.21	0.0526
5	15	15	177300	841.5	DFT-s-OFDM 64 QAM	36@18	20.42	15.77	0.0378
5	15	15	177300	841.5	DFT-s-OFDM 64 QAM	1@1	20.58	15.93	0.0392
5	15	15	177300	841.5	DFT-s-OFDM 64 QAM	1@77	20.49	15.84	0.0384

5	15	15	177300	841.5	DFT-s-OFDM 256 QAM	36@18	18.34	13.69	0.0234
5	15	15	177300	841.5	DFT-s-OFDM 256 QAM	1@1	17.97	13.32	0.0215
5	15	15	177300	841.5	DFT-s-OFDM 256 QAM	1@77	17.86	13.21	0.0209
5	15	15	177300	841.5	CP-OFDM QPSK	39@19	21.5	16.85	0.0484
5	15	15	177300	841.5	CP-OFDM QPSK	1@1	21.5	16.85	0.0484
5	15	15	177300	841.5	CP-OFDM QPSK	1@77	21.35	16.7	0.0468
5	15	20	175800	834	DFT-s-OFDM QPSK	50@25	22.99	18.34	0.0682
5	15	20	175800	834	DFT-s-OFDM QPSK	1@1	23.09	18.44	0.0698
5	15	20	175800	834	DFT-s-OFDM QPSK	1@104	23.03	18.38	0.0689
5	15	20	175800	834	DFT-s-OFDM 16 QAM	50@25	22.01	17.36	0.0545
5	15	20	175800	834	DFT-s-OFDM 16 QAM	1@1	22.07	17.42	0.0552
5	15	20	175800	834	DFT-s-OFDM 16 QAM	1@104	21.93	17.28	0.0535
5	15	20	175800	834	DFT-s-OFDM 64 QAM	50@25	20.53	15.88	0.0387
5	15	20	175800	834	DFT-s-OFDM 64 QAM	1@1	20.72	16.07	0.0405
5	15	20	175800	834	DFT-s-OFDM 64 QAM	1@104	20.6	15.95	0.0394
5	15	20	175800	834	DFT-s-OFDM 256 QAM	50@25	18.05	13.4	0.0219
5	15	20	175800	834	DFT-s-OFDM 256 QAM	1@1	18.08	13.43	0.0220
5	15	20	175800	834	DFT-s-OFDM 256 QAM	1@104	17.94	13.29	0.0213
5	15	20	175800	834	CP-OFDM QPSK	53@26	21.48	16.83	0.0482
5	15	20	175800	834	CP-OFDM QPSK	1@1	21.61	16.96	0.0497
5	15	20	175800	834	CP-OFDM QPSK	1@104	21.41	16.76	0.0474
5	15	20	176300	836.5	DFT-s-OFDM QPSK	50@25	22.97	18.32	0.0679
5	15	20	176300	836.5	DFT-s-OFDM QPSK	1@1	23.17	18.52	0.0711
5	15	20	176300	836.5	DFT-s-OFDM QPSK	1@104	22.92	18.27	0.0671
5	15	20	176300	836.5	DFT-s-OFDM 16 QAM	50@25	21.99	17.34	0.0542
5	15	20	176300	836.5	DFT-s-OFDM 16 QAM	1@1	22.1	17.45	0.0556
5	15	20	176300	836.5	DFT-s-OFDM 16 QAM	1@104	21.91	17.26	0.0532
5	15	20	176300	836.5	DFT-s-OFDM 64 QAM	50@25	20.52	15.87	0.0386
5	15	20	176300	836.5	DFT-s-OFDM 64 QAM	1@1	20.8	16.15	0.0412
5	15	20	176300	836.5	DFT-s-OFDM 64 QAM	1@104	20.55	15.9	0.0389
5	15	20	176300	836.5	DFT-s-OFDM 256 QAM	50@25	18.02	13.37	0.0217
5	15	20	176300	836.5	DFT-s-OFDM 256 QAM	1@1	18.12	13.47	0.0222
5	15	20	176300	836.5	DFT-s-OFDM 256 QAM	1@104	17.85	13.2	0.0209
5	15	20	176300	836.5	CP-OFDM QPSK	53@26	21.49	16.84	0.0483

5	15	20	176300	836.5	CP-OFDM QPSK	1@1	21.66	17.01	0.0502
5	15	20	176300	836.5	CP-OFDM QPSK	1@104	21.37	16.72	0.0470
5	15	20	176800	839	DFT-s-OFDM QPSK	50@25	22.97	18.32	0.0679
5	15	20	176800	839	DFT-s-OFDM QPSK	1@1	23.1	18.45	0.0700
5	15	20	176800	839	DFT-s-OFDM QPSK	1@104	22.95	18.3	0.0676
5	15	20	176800	839	DFT-s-OFDM 16 QAM	50@25	21.98	17.33	0.0541
5	15	20	176800	839	DFT-s-OFDM 16 QAM	1@1	22.02	17.37	0.0546
5	15	20	176800	839	DFT-s-OFDM 16 QAM	1@104	21.87	17.22	0.0527
5	15	20	176800	839	DFT-s-OFDM 64 QAM	50@25	20.48	15.83	0.0383
5	15	20	176800	839	DFT-s-OFDM 64 QAM	1@1	20.72	16.07	0.0405
5	15	20	176800	839	DFT-s-OFDM 64 QAM	1@104	20.53	15.88	0.0387
5	15	20	176800	839	DFT-s-OFDM 256 QAM	50@25	18.42	13.77	0.0238
5	15	20	176800	839	DFT-s-OFDM 256 QAM	1@1	18.08	13.43	0.0220
5	15	20	176800	839	DFT-s-OFDM 256 QAM	1@104	17.9	13.25	0.0211
5	15	20	176800	839	CP-OFDM QPSK	53@26	21.46	16.81	0.0480
5	15	20	176800	839	CP-OFDM QPSK	1@1	21.68	17.03	0.0505
5	15	20	176800	839	CP-OFDM QPSK	1@104	21.41	16.76	0.0474

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<Ant. 1>

Transmitter Conducted Output Power And ERP, (G_T - L_C)= -3.0dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	ERP(dBm)	ERP(W)
12	15	5	146300	701.5	DFT-s-OFDM QPSK	12@6	22.9	17.75	0.0596
12	15	5	146300	701.5	DFT-s-OFDM QPSK	1@1	22.86	17.71	0.0590
12	15	5	146300	701.5	DFT-s-OFDM QPSK	1@23	22.79	17.64	0.0581
12	15	5	146300	701.5	DFT-s-OFDM 16 QAM	12@6	21.79	16.64	0.0461
12	15	5	146300	701.5	DFT-s-OFDM 16 QAM	1@1	21.95	16.8	0.0479
12	15	5	146300	701.5	DFT-s-OFDM 16 QAM	1@23	21.93	16.78	0.0476
12	15	5	146300	701.5	DFT-s-OFDM 64 QAM	12@6	20.44	15.29	0.0338
12	15	5	146300	701.5	DFT-s-OFDM 64 QAM	1@1	20.45	15.3	0.0339
12	15	5	146300	701.5	DFT-s-OFDM 64 QAM	1@23	20.44	15.29	0.0338
12	15	5	146300	701.5	DFT-s-OFDM 256 QAM	12@6	18.3	13.15	0.0207
12	15	5	146300	701.5	DFT-s-OFDM 256 QAM	1@1	18.13	12.98	0.0199
12	15	5	146300	701.5	DFT-s-OFDM 256 QAM	1@23	18.09	12.94	0.0197
12	15	5	146300	701.5	CP-OFDM QPSK	13@6	21.38	16.23	0.0420
12	15	5	146300	701.5	CP-OFDM QPSK	1@1	21.44	16.29	0.0426
12	15	5	146300	701.5	CP-OFDM QPSK	1@23	21.41	16.26	0.0423
12	15	5	147500	707.5	DFT-s-OFDM QPSK	12@6	22.92	17.77	0.0598
12	15	5	147500	707.5	DFT-s-OFDM QPSK	1@1	22.85	17.7	0.0589
12	15	5	147500	707.5	DFT-s-OFDM QPSK	1@23	22.82	17.67	0.0585
12	15	5	147500	707.5	DFT-s-OFDM 16 QAM	12@6	21.79	16.64	0.0461
12	15	5	147500	707.5	DFT-s-OFDM 16 QAM	1@1	21.97	16.82	0.0481
12	15	5	147500	707.5	DFT-s-OFDM 16 QAM	1@23	21.88	16.73	0.0471
12	15	5	147500	707.5	DFT-s-OFDM 64 QAM	12@6	20.45	15.3	0.0339
12	15	5	147500	707.5	DFT-s-OFDM 64 QAM	1@1	20.46	15.31	0.0340
12	15	5	147500	707.5	DFT-s-OFDM 64 QAM	1@23	20.41	15.26	0.0336
12	15	5	147500	707.5	DFT-s-OFDM 256 QAM	12@6	18.3	13.15	0.0207
12	15	5	147500	707.5	DFT-s-OFDM 256 QAM	1@1	18.1	12.95	0.0197
12	15	5	147500	707.5	DFT-s-OFDM 256 QAM	1@23	18.06	12.91	0.0195
12	15	5	147500	707.5	CP-OFDM	13@6	21.37	16.22	0.0419

					QPSK				
12	15	5	147500	707.5	CP-OFDM QPSK	1@1	21.45	16.3	0.0427
12	15	5	147500	707.5	CP-OFDM QPSK	1@23	21.38	16.23	0.0420
12	15	5	148700	713.5	DFT-s-OFDM QPSK	12@6	22.91	17.76	0.0597
12	15	5	148700	713.5	DFT-s-OFDM QPSK	1@1	22.82	17.67	0.0585
12	15	5	148700	713.5	DFT-s-OFDM QPSK	1@23	22.83	17.68	0.0586
12	15	5	148700	713.5	DFT-s-OFDM 16 QAM	12@6	21.79	16.64	0.0461
12	15	5	148700	713.5	DFT-s-OFDM 16 QAM	1@1	21.93	16.78	0.0476
12	15	5	148700	713.5	DFT-s-OFDM 16 QAM	1@23	21.86	16.71	0.0469
12	15	5	148700	713.5	DFT-s-OFDM 64 QAM	12@6	20.42	15.27	0.0337
12	15	5	148700	713.5	DFT-s-OFDM 64 QAM	1@1	20.42	15.27	0.0337
12	15	5	148700	713.5	DFT-s-OFDM 64 QAM	1@23	20.43	15.28	0.0337
12	15	5	148700	713.5	DFT-s-OFDM 256 QAM	12@6	18.28	13.13	0.0206
12	15	5	148700	713.5	DFT-s-OFDM 256 QAM	1@1	18.07	12.92	0.0196
12	15	5	148700	713.5	DFT-s-OFDM 256 QAM	1@23	18.05	12.9	0.0195
12	15	5	148700	713.5	CP-OFDM QPSK	13@6	21.36	16.21	0.0418
12	15	5	148700	713.5	CP-OFDM QPSK	1@1	21.46	16.31	0.0428
12	15	5	148700	713.5	CP-OFDM QPSK	1@23	21.38	16.23	0.0420
12	15	10	146800	704	DFT-s-OFDM QPSK	25@12	22.86	17.71	0.0590
12	15	10	146800	704	DFT-s-OFDM QPSK	1@1	22.89	17.74	0.0594
12	15	10	146800	704	DFT-s-OFDM QPSK	1@50	22.8	17.65	0.0582
12	15	10	146800	704	DFT-s-OFDM 16 QAM	25@12	21.83	16.68	0.0466
12	15	10	146800	704	DFT-s-OFDM 16 QAM	1@1	21.96	16.81	0.0480
12	15	10	146800	704	DFT-s-OFDM 16 QAM	1@50	21.91	16.76	0.0474
12	15	10	146800	704	DFT-s-OFDM 64 QAM	25@12	20.46	15.31	0.0340
12	15	10	146800	704	DFT-s-OFDM 64 QAM	1@1	20.46	15.31	0.0340
12	15	10	146800	704	DFT-s-OFDM 64 QAM	1@50	20.37	15.22	0.0333
12	15	10	146800	704	DFT-s-OFDM 256 QAM	25@12	18.26	13.11	0.0205
12	15	10	146800	704	DFT-s-OFDM 256 QAM	1@1	18.07	12.92	0.0196
12	15	10	146800	704	DFT-s-OFDM 256 QAM	1@50	18.08	12.93	0.0196
12	15	10	146800	704	CP-OFDM QPSK	26@13	21.3	16.15	0.0412
12	15	10	146800	704	CP-OFDM QPSK	1@1	21.53	16.38	0.0435
12	15	10	146800	704	CP-OFDM QPSK	1@50	21.48	16.33	0.0430
12	15	10	147500	707.5	DFT-s-OFDM QPSK	25@12	22.91	17.76	0.0597

12	15	10	147500	707.5	DFT-s-OFDM QPSK	1@1	22.87	17.72	0.0592
12	15	10	147500	707.5	DFT-s-OFDM QPSK	1@50	22.78	17.63	0.0579
12	15	10	147500	707.5	DFT-s-OFDM 16 QAM	25@12	21.89	16.74	0.0472
12	15	10	147500	707.5	DFT-s-OFDM 16 QAM	1@1	21.96	16.81	0.0480
12	15	10	147500	707.5	DFT-s-OFDM 16 QAM	1@50	21.94	16.79	0.0478
12	15	10	147500	707.5	DFT-s-OFDM 64 QAM	25@12	20.52	15.37	0.0344
12	15	10	147500	707.5	DFT-s-OFDM 64 QAM	1@1	20.44	15.29	0.0338
12	15	10	147500	707.5	DFT-s-OFDM 64 QAM	1@50	20.47	15.32	0.0340
12	15	10	147500	707.5	DFT-s-OFDM 256 QAM	25@12	18.34	13.19	0.0208
12	15	10	147500	707.5	DFT-s-OFDM 256 QAM	1@1	18.01	12.86	0.0193
12	15	10	147500	707.5	DFT-s-OFDM 256 QAM	1@50	18.02	12.87	0.0194
12	15	10	147500	707.5	CP-OFDM QPSK	26@13	21.36	16.21	0.0418
12	15	10	147500	707.5	CP-OFDM QPSK	1@1	21.47	16.32	0.0429
12	15	10	147500	707.5	CP-OFDM QPSK	1@50	21.44	16.29	0.0426
12	15	10	148200	711	DFT-s-OFDM QPSK	25@12	22.84	17.69	0.0587
12	15	10	148200	711	DFT-s-OFDM QPSK	1@1	22.86	17.71	0.0590
12	15	10	148200	711	DFT-s-OFDM QPSK	1@50	22.82	17.67	0.0585
12	15	10	148200	711	DFT-s-OFDM 16 QAM	25@12	21.78	16.63	0.0460
12	15	10	148200	711	DFT-s-OFDM 16 QAM	1@1	21.97	16.82	0.0481
12	15	10	148200	711	DFT-s-OFDM 16 QAM	1@50	21.91	16.76	0.0474
12	15	10	148200	711	DFT-s-OFDM 64 QAM	25@12	20.42	15.27	0.0337
12	15	10	148200	711	DFT-s-OFDM 64 QAM	1@1	20.46	15.31	0.0340
12	15	10	148200	711	DFT-s-OFDM 64 QAM	1@50	20.43	15.28	0.0337
12	15	10	148200	711	DFT-s-OFDM 256 QAM	25@12	18.26	13.11	0.0205
12	15	10	148200	711	DFT-s-OFDM 256 QAM	1@1	18.05	12.9	0.0195
12	15	10	148200	711	DFT-s-OFDM 256 QAM	1@50	18.12	12.97	0.0198
12	15	10	148200	711	CP-OFDM QPSK	26@13	21.3	16.15	0.0412
12	15	10	148200	711	CP-OFDM QPSK	1@1	21.46	16.31	0.0428
12	15	10	148200	711	CP-OFDM QPSK	1@50	21.48	16.33	0.0430
12	15	15	147300	706.5	DFT-s-OFDM QPSK	36@18	23.04	17.89	0.0615
12	15	15	147300	706.5	DFT-s-OFDM QPSK	1@1	23.01	17.86	0.0611
12	15	15	147300	706.5	DFT-s-OFDM QPSK	1@77	23.04	17.89	0.0615
12	15	15	147300	706.5	DFT-s-OFDM 16 QAM	36@18	22.02	16.87	0.0486
12	15	15	147300	706.5	DFT-s-OFDM 16 QAM	1@1	22.1	16.95	0.0495

12	15	15	147300	706.5	DFT-s-OFDM 16 QAM	1@77	22.05	16.9	0.0490
12	15	15	147300	706.5	DFT-s-OFDM 64 QAM	36@18	20.56	15.41	0.0348
12	15	15	147300	706.5	DFT-s-OFDM 64 QAM	1@1	20.54	15.39	0.0346
12	15	15	147300	706.5	DFT-s-OFDM 64 QAM	1@77	20.56	15.41	0.0348
12	15	15	147300	706.5	DFT-s-OFDM 256 QAM	36@18	18.43	13.28	0.0213
12	15	15	147300	706.5	DFT-s-OFDM 256 QAM	1@1	18.26	13.11	0.0205
12	15	15	147300	706.5	DFT-s-OFDM 256 QAM	1@77	18.27	13.12	0.0205
12	15	15	147300	706.5	CP-OFDM QPSK	39@19	21.52	16.37	0.0434
12	15	15	147300	706.5	CP-OFDM QPSK	1@1	21.62	16.47	0.0444
12	15	15	147300	706.5	CP-OFDM QPSK	1@77	21.6	16.45	0.0442
12	15	15	147500	707.5	DFT-s-OFDM QPSK	36@18	23.03	17.88	0.0614
12	15	15	147500	707.5	DFT-s-OFDM QPSK	1@1	22.97	17.82	0.0605
12	15	15	147500	707.5	DFT-s-OFDM QPSK	1@77	22.99	17.84	0.0608
12	15	15	147500	707.5	DFT-s-OFDM 16 QAM	36@18	22.03	16.88	0.0488
12	15	15	147500	707.5	DFT-s-OFDM 16 QAM	1@1	22.09	16.94	0.0494
12	15	15	147500	707.5	DFT-s-OFDM 16 QAM	1@77	22.07	16.92	0.0492
12	15	15	147500	707.5	DFT-s-OFDM 64 QAM	36@18	20.54	15.39	0.0346
12	15	15	147500	707.5	DFT-s-OFDM 64 QAM	1@1	20.56	15.41	0.0348
12	15	15	147500	707.5	DFT-s-OFDM 64 QAM	1@77	20.54	15.39	0.0346
12	15	15	147500	707.5	DFT-s-OFDM 256 QAM	36@18	18.45	13.3	0.0214
12	15	15	147500	707.5	DFT-s-OFDM 256 QAM	1@1	18.29	13.14	0.0206
12	15	15	147500	707.5	DFT-s-OFDM 256 QAM	1@77	18.28	13.13	0.0206
12	15	15	147500	707.5	CP-OFDM QPSK	39@19	21.5	16.35	0.0432
12	15	15	147500	707.5	CP-OFDM QPSK	1@1	21.55	16.4	0.0437
12	15	15	147500	707.5	CP-OFDM QPSK	1@77	21.61	16.46	0.0443
12	15	15	147700	708.5	DFT-s-OFDM QPSK	36@18	23	17.85	0.0610
12	15	15	147700	708.5	DFT-s-OFDM QPSK	1@1	22.99	17.84	0.0608
12	15	15	147700	708.5	DFT-s-OFDM QPSK	1@77	23.05	17.9	0.0617
12	15	15	147700	708.5	DFT-s-OFDM 16 QAM	36@18	22	16.85	0.0484
12	15	15	147700	708.5	DFT-s-OFDM 16 QAM	1@1	22.07	16.92	0.0492
12	15	15	147700	708.5	DFT-s-OFDM 16 QAM	1@77	22.03	16.88	0.0488
12	15	15	147700	708.5	DFT-s-OFDM 64 QAM	36@18	20.52	15.37	0.0344
12	15	15	147700	708.5	DFT-s-OFDM 64 QAM	1@1	20.53	15.38	0.0345
12	15	15	147700	708.5	DFT-s-OFDM 64 QAM	1@77	20.53	15.38	0.0345

12	15	15	147700	708.5	DFT-s-OFDM 256 QAM	36@18	18.39	13.24	0.0211
12	15	15	147700	708.5	DFT-s-OFDM 256 QAM	1@1	18.23	13.08	0.0203
12	15	15	147700	708.5	DFT-s-OFDM 256 QAM	1@77	18.31	13.16	0.0207
12	15	15	147700	708.5	CP-OFDM QPSK	39@19	21.58	16.43	0.0440
12	15	15	147700	708.5	CP-OFDM QPSK	1@1	21.54	16.39	0.0436
12	15	15	147700	708.5	CP-OFDM QPSK	1@77	21.61	16.46	0.0443

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	-0.01117	PASS	NV
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	-0.00721	PASS	LV
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	-0.00175	PASS	HV
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	-0.00614	PASS	-30°C
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	-0.00512	PASS	-20°C
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	-0.00422	PASS	-10°C
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	-0.00371	PASS	0°C
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	-0.00159	PASS	10°C
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	-0.00639	PASS	20°C
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	-0.00502	PASS	30°C
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	-0.00494	PASS	40°C
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	-0.00211	PASS	50°C

Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
12	15	10	146800	704.0	DFT-s-OFDM QPSK	50@0	5.71	13	PASS
12	15	10	146800	704.0	DFT-s-OFDM QPSK	1@0	6.28	13	PASS
12	15	10	147500	707.5	DFT-s-OFDM QPSK	50@0	5.87	13	PASS
12	15	10	147500	707.5	DFT-s-OFDM QPSK	1@0	6.22	13	PASS
12	15	10	148200	711.0	DFT-s-OFDM QPSK	50@0	5.83	13	PASS
12	15	10	148200	711.0	DFT-s-OFDM QPSK	1@0	6.03	13	PASS

N12(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



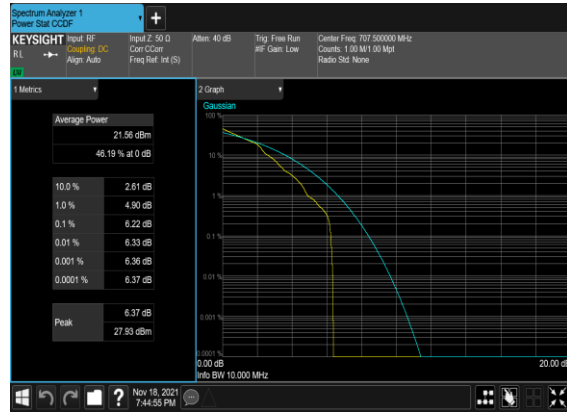
N12(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N12(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



N12(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N12(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



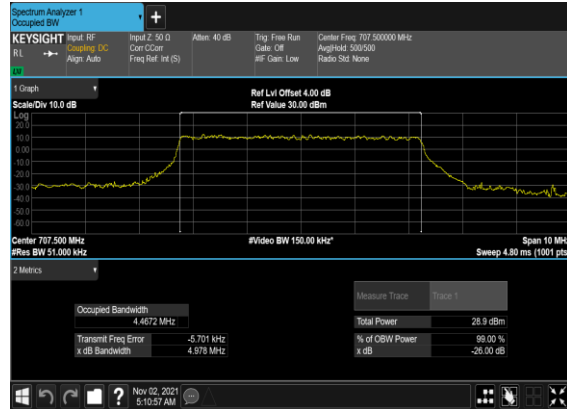
N12(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



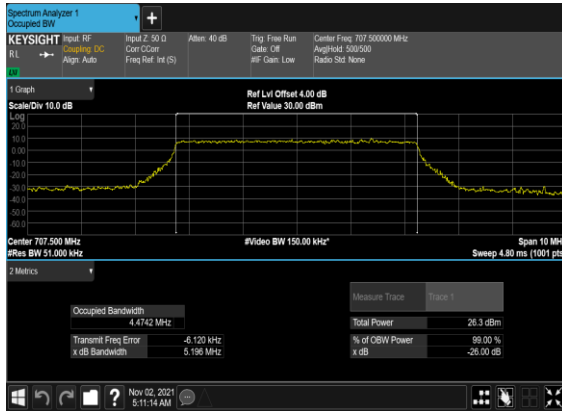
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
12	15	5	147500	707.5	DFT-s-OFDM QPSK	25@0	4.4672	4.978
12	15	5	147500	707.5	CP-OFDM QPSK	25@0	4.4742	5.196
12	15	5	147500	707.5	CP-OFDM 16 QAM	25@0	4.4804	5.201
12	15	5	147500	707.5	CP-OFDM 64 QAM	25@0	4.4631	5.018
12	15	5	147500	707.5	CP-OFDM 256 QAM	25@0	4.4782	5.053
12	15	10	147500	707.5	DFT-s-OFDM QPSK	50@0	8.9129	9.601
12	15	10	147500	707.5	CP-OFDM QPSK	52@0	9.2717	10.1
12	15	10	147500	707.5	CP-OFDM 16 QAM	52@0	9.2857	10.04
12	15	10	147500	707.5	CP-OFDM 64 QAM	52@0	9.256	9.998
12	15	10	147500	707.5	CP-OFDM 256 QAM	52@0	9.284	9.979
12	15	15	147500	707.5	DFT-s-OFDM QPSK	75@0	13.38	14.32
12	15	15	147500	707.5	CP-OFDM QPSK	79@0	14.067	14.91
12	15	15	147500	707.5	CP-OFDM 16 QAM	79@0	14.082	14.93
12	15	15	147500	707.5	CP-OFDM 64 QAM	79@0	14.094	14.93
12	15	15	147500	707.5	CP-OFDM 256 QAM	79@0	14.064	14.93

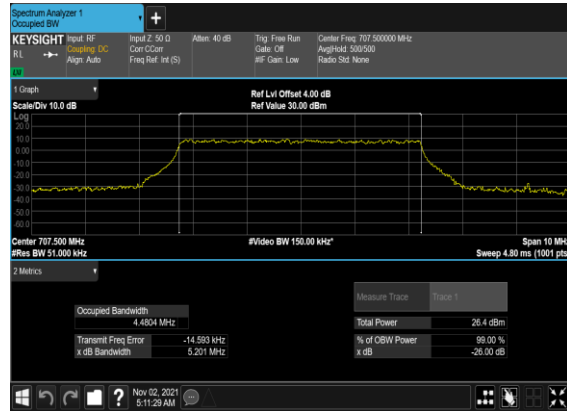
N12(5M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



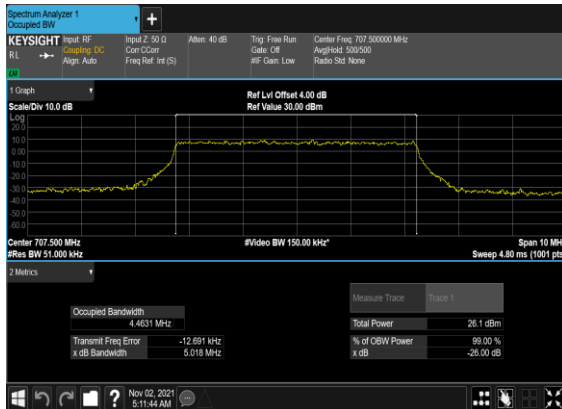
N12(5M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



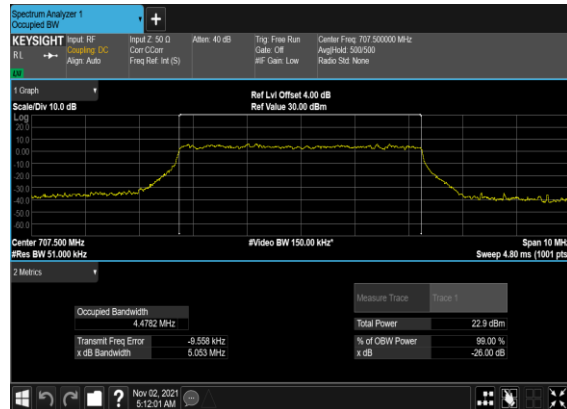
N12(5M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



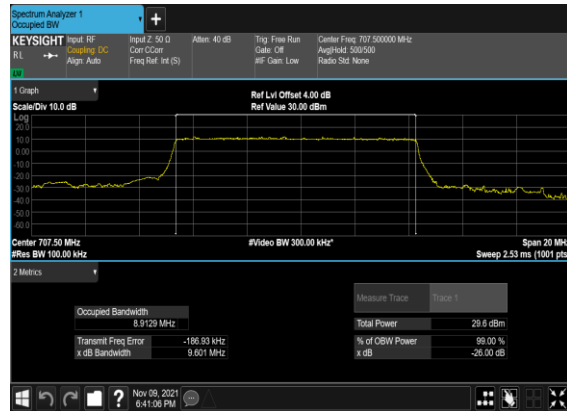
N12(5M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



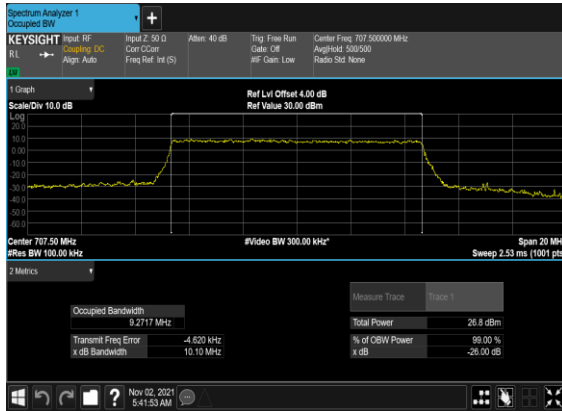
N12(5M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



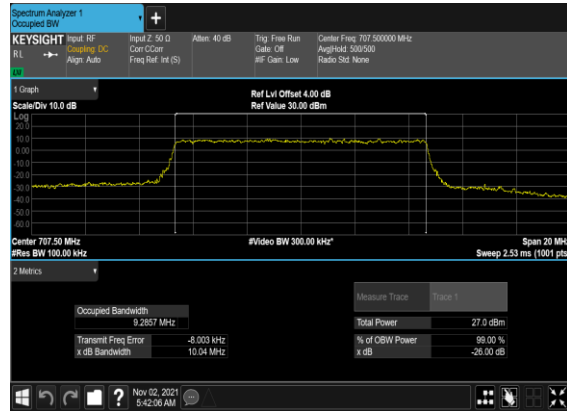
N12(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



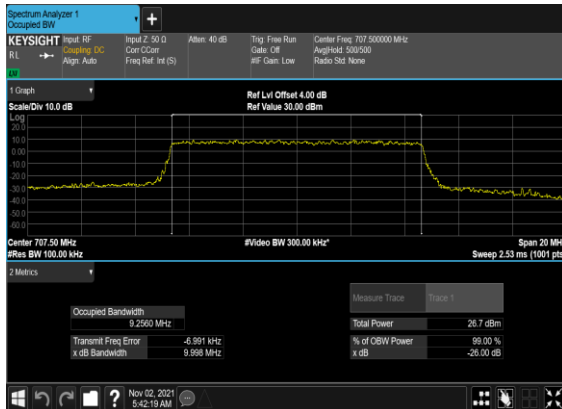
N12(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



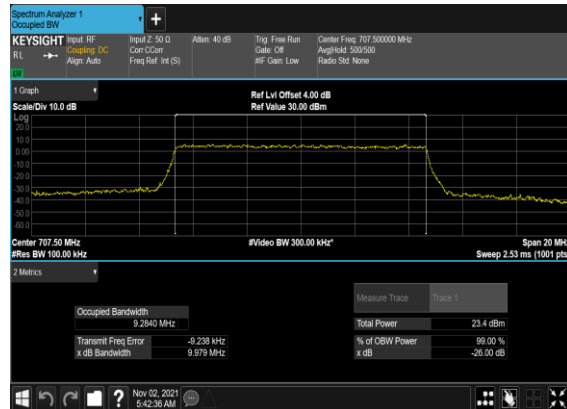
N12(10M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



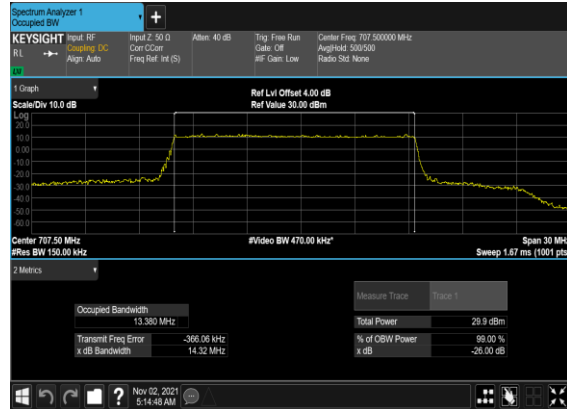
N12(10M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



N12(10M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



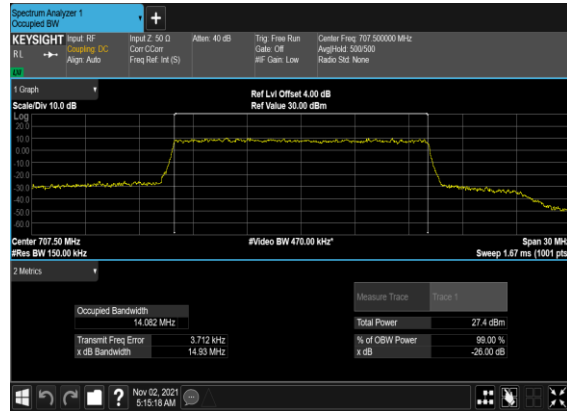
N12(15M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



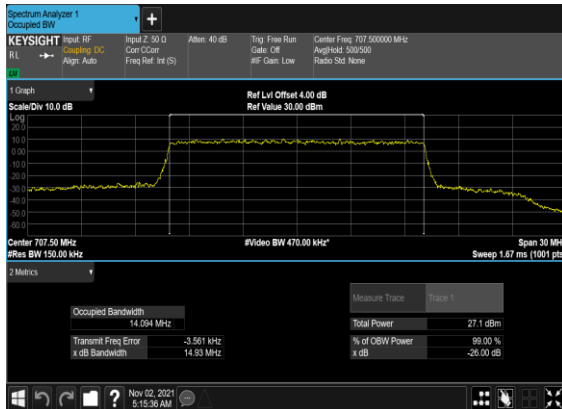
N12(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



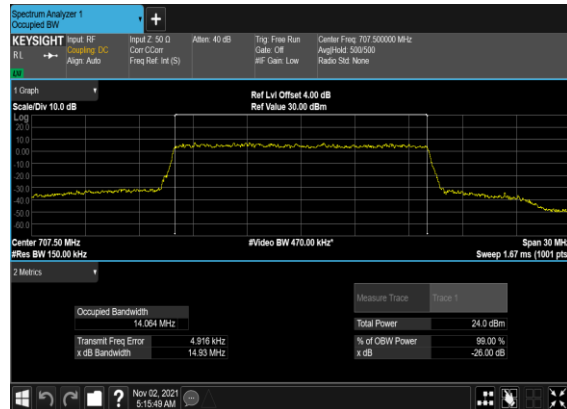
N12(15M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N12(15M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



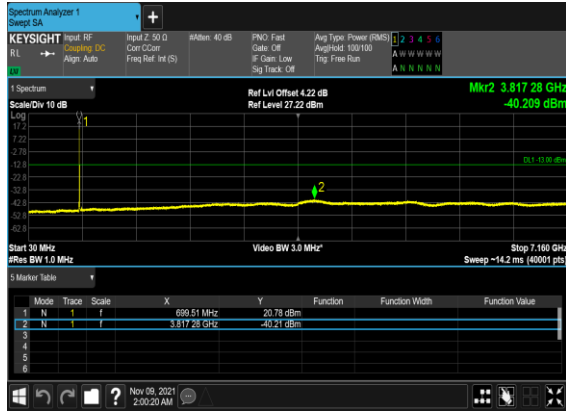
N12(15M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



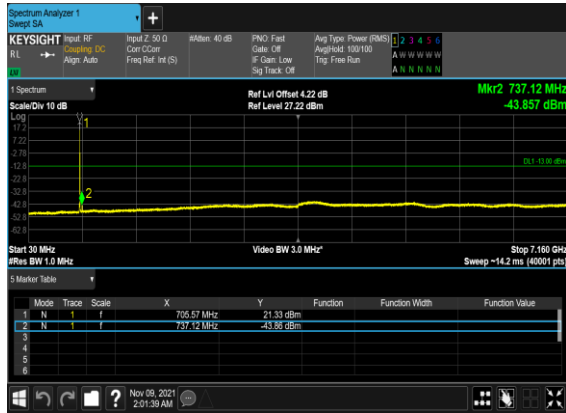
Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
12	15	5	146300	701.5	DFT-s-OFDM QPSK	1@0	see graph	---
12	15	5	146300	701.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	5	147500	707.5	DFT-s-OFDM QPSK	1@0	see graph	---
12	15	5	147500	707.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	5	148700	713.5	DFT-s-OFDM QPSK	1@0	see graph	---
12	15	5	148700	713.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	10	146800	704.0	DFT-s-OFDM QPSK	1@0	see graph	---
12	15	10	146800	704.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	10	147500	707.5	DFT-s-OFDM QPSK	1@0	see graph	---
12	15	10	147500	707.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	10	148200	711.0	DFT-s-OFDM QPSK	1@0	see graph	---
12	15	10	148200	711.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	15	147300	706.5	DFT-s-OFDM QPSK	1@0	see graph	---
12	15	15	147300	706.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	15	147500	707.5	DFT-s-OFDM QPSK	1@0	see graph	---
12	15	15	147500	707.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	15	147700	708.5	DFT-s-OFDM QPSK	1@0	see graph	---
12	15	15	147700	708.5	DFT-s-OFDM QPSK	1@0	see graph	PASS

N12(5M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Low_CH



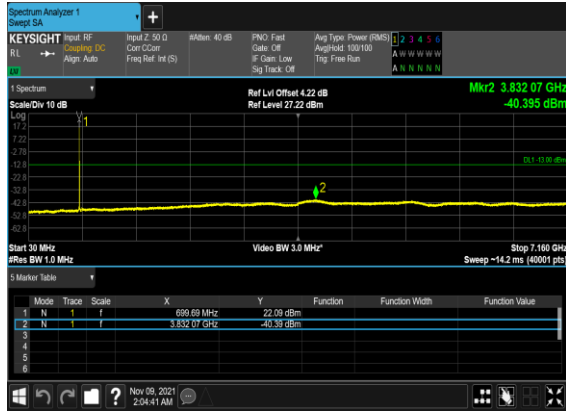
N12(5M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Mid_CH



N12(5M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_High_CH



N12(10M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Low_CH



N12(10M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Mid_CH



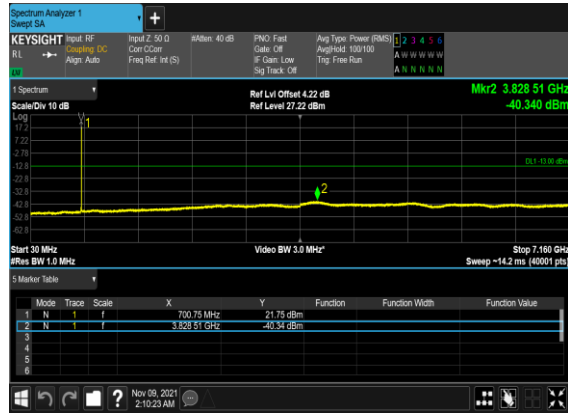
N12(10M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_High_CH



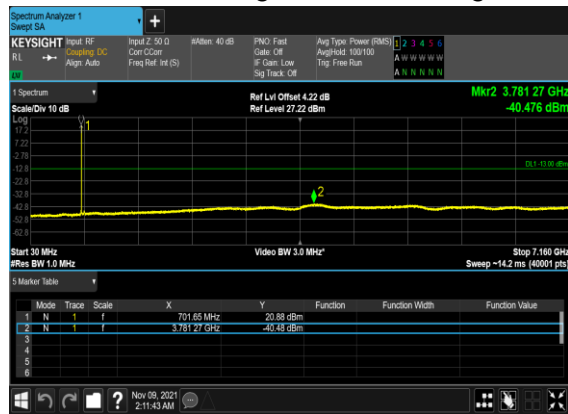
N12(15M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Low_CH



N12(15M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Mid_CH



N12(15M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_High_CH



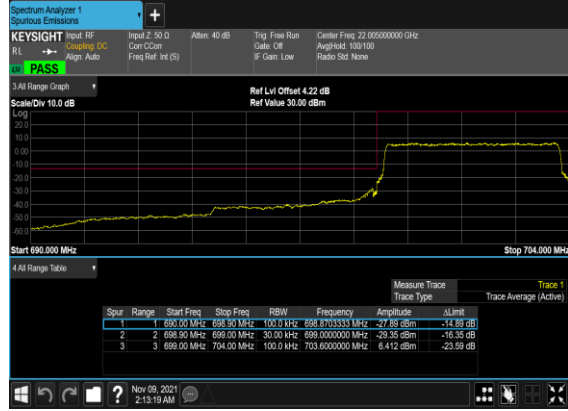
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
12	15	5	146300	701.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	5	146300	701.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
12	15	5	148700	713.5	DFT-s-OFDM QPSK	1@24	see graph	PASS
12	15	5	148700	713.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
12	15	10	146800	704.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	10	146800	704.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
12	15	10	148200	711.0	DFT-s-OFDM QPSK	1@51	see graph	PASS
12	15	10	148200	711.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
12	15	15	147300	706.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
12	15	15	147300	706.5	DFT-s-OFDM QPSK	75@0	see graph	PASS
12	15	15	147700	708.5	DFT-s-OFDM QPSK	1@78	see graph	PASS
12	15	15	147700	708.5	DFT-s-OFDM QPSK	75@0	see graph	PASS

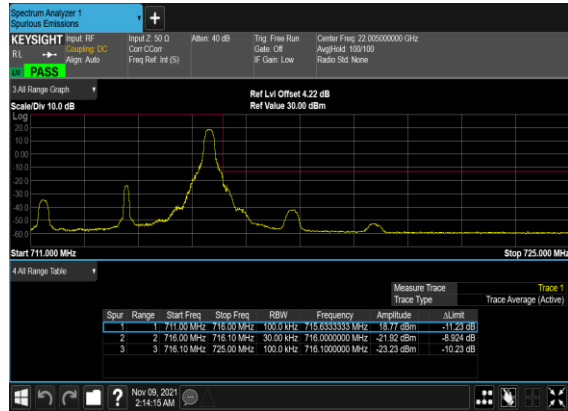
N12(5M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Low_CH



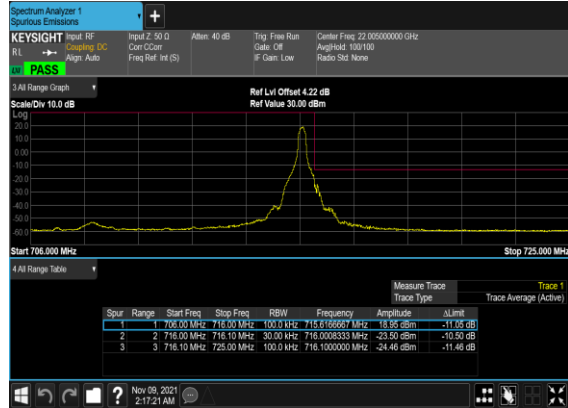
N12(5M)_DFT-s- OFDM_QPSK_Outer_Full_Low_CH



N12(5M)_DFT-s- OFDM_QPSK_Edge_1RB_Right_High_CH



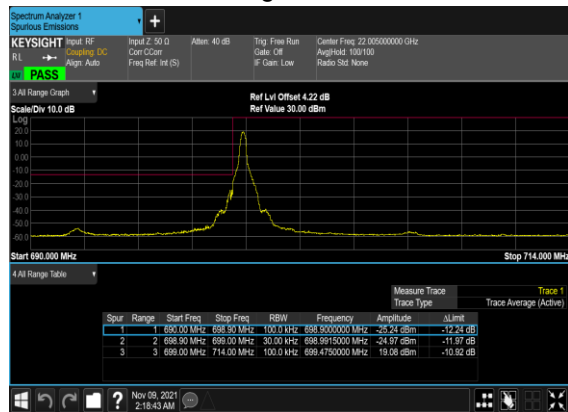
N12(10M)_DFT-s- OFDM_QPSK_Edge_1RB_Right_High_CH



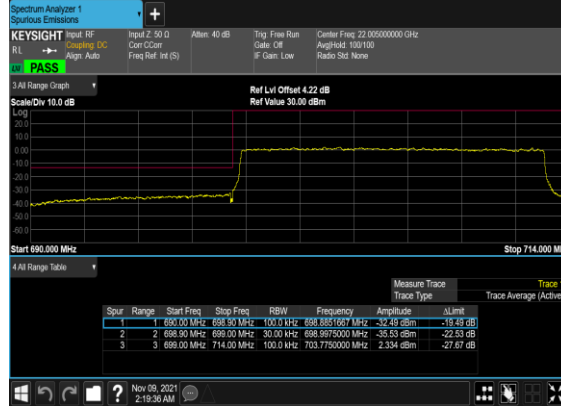
N12(10M)_DFT-s- OFDM_QPSK_Outer_Full_High_CH



N12(15M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Low_CH



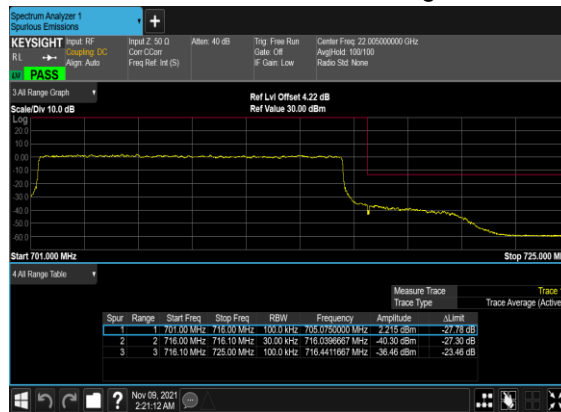
N12(15M)_DFT-s- OFDM_QPSK_Outer_Full_Low_CH



N12(15M)_DFT-s- OFDM_QPSK_Edge_1RB_Right_High_CH



N12(15M)_DFT-s- OFDM_QPSK_Outer_Full_High_CH



FR1 N13

<Ant. 1>

Transmitter Conducted Output Power And ERP, (G_T - L_C)= -3.0dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	ERP(dBm)	ERP(W)
13	15	5	149700	779.5	DFT-s-OFDM QPSK	12@6	23.11	17.96	0.0625
13	15	5	149700	779.5	DFT-s-OFDM QPSK	1@1	23.09	17.94	0.0622
13	15	5	149700	779.5	DFT-s-OFDM QPSK	1@23	23.14	17.99	0.0630
13	15	5	149700	779.5	DFT-s-OFDM 16 QAM	12@6	22.07	16.92	0.0492
13	15	5	149700	779.5	DFT-s-OFDM 16 QAM	1@1	22.26	17.11	0.0514
13	15	5	149700	779.5	DFT-s-OFDM 16 QAM	1@23	22.22	17.07	0.0509
13	15	5	149700	779.5	DFT-s-OFDM 64 QAM	12@6	20.66	15.51	0.0356
13	15	5	149700	779.5	DFT-s-OFDM 64 QAM	1@1	20.71	15.56	0.0360
13	15	5	149700	779.5	DFT-s-OFDM 64 QAM	1@23	20.66	15.51	0.0356
13	15	5	149700	779.5	DFT-s-OFDM 256 QAM	12@6	18.52	13.37	0.0217
13	15	5	149700	779.5	DFT-s-OFDM 256 QAM	1@1	18.33	13.18	0.0208
13	15	5	149700	779.5	DFT-s-OFDM 256 QAM	1@23	18.34	13.19	0.0208
13	15	5	149700	779.5	CP-OFDM QPSK	13@6	21.63	16.48	0.0445
13	15	5	149700	779.5	CP-OFDM QPSK	1@1	21.49	16.34	0.0431
13	15	5	149700	779.5	CP-OFDM QPSK	1@23	21.44	16.29	0.0426
13	15	5	150200	782	DFT-s-OFDM QPSK	12@6	23.2	18.05	0.0638
13	15	5	150200	782	DFT-s-OFDM QPSK	1@1	23.08	17.93	0.0621
13	15	5	150200	782	DFT-s-OFDM QPSK	1@23	23.18	18.03	0.0635
13	15	5	150200	782	DFT-s-OFDM 16 QAM	12@6	22.12	16.97	0.0498
13	15	5	150200	782	DFT-s-OFDM 16 QAM	1@1	22.2	17.05	0.0507
13	15	5	150200	782	DFT-s-OFDM 16 QAM	1@23	22.27	17.12	0.0515
13	15	5	150200	782	DFT-s-OFDM 64 QAM	12@6	20.65	15.5	0.0355
13	15	5	150200	782	DFT-s-OFDM 64 QAM	1@1	20.69	15.54	0.0358
13	15	5	150200	782	DFT-s-OFDM 64 QAM	1@23	20.8	15.65	0.0367
13	15	5	150200	782	DFT-s-OFDM 256 QAM	12@6	18.48	13.33	0.0215
13	15	5	150200	782	DFT-s-OFDM 256 QAM	1@1	18.33	13.18	0.0208
13	15	5	150200	782	DFT-s-OFDM 256 QAM	1@23	18.4	13.25	0.0211
13	15	5	150200	782	CP-OFDM	13@6	21.71	16.56	0.0453

					QPSK				
13	15	5	150200	782	CP-OFDM QPSK	1@1	21.47	16.32	0.0429
13	15	5	150200	782	CP-OFDM QPSK	1@23	21.5	16.35	0.0432
13	15	5	150700	784.5	DFT-s-OFDM QPSK	12@6	23.2	18.05	0.0638
13	15	5	150700	784.5	DFT-s-OFDM QPSK	1@1	23.11	17.96	0.0625
13	15	5	150700	784.5	DFT-s-OFDM QPSK	1@23	23.18	18.03	0.0635
13	15	5	150700	784.5	DFT-s-OFDM 16 QAM	12@6	22.08	16.93	0.0493
13	15	5	150700	784.5	DFT-s-OFDM 16 QAM	1@1	22.32	17.17	0.0521
13	15	5	150700	784.5	DFT-s-OFDM 16 QAM	1@23	22.25	17.1	0.0513
13	15	5	150700	784.5	DFT-s-OFDM 64 QAM	12@6	20.7	15.55	0.0359
13	15	5	150700	784.5	DFT-s-OFDM 64 QAM	1@1	20.76	15.61	0.0364
13	15	5	150700	784.5	DFT-s-OFDM 64 QAM	1@23	20.7	15.55	0.0359
13	15	5	150700	784.5	DFT-s-OFDM 256 QAM	12@6	18.63	13.48	0.0223
13	15	5	150700	784.5	DFT-s-OFDM 256 QAM	1@1	18.39	13.24	0.0211
13	15	5	150700	784.5	DFT-s-OFDM 256 QAM	1@23	18.38	13.23	0.0210
13	15	5	150700	784.5	CP-OFDM QPSK	13@6	21.69	16.54	0.0451
13	15	5	150700	784.5	CP-OFDM QPSK	1@1	21.5	16.35	0.0432
13	15	5	150700	784.5	CP-OFDM QPSK	1@23	21.61	16.46	0.0443
13	15	10	150200	782	DFT-s-OFDM QPSK	25@12	23.15	18	0.0631
13	15	10	150200	782	DFT-s-OFDM QPSK	1@1	23.06	17.91	0.0618
13	15	10	150200	782	DFT-s-OFDM QPSK	1@50	23.09	17.94	0.0622
13	15	10	150200	782	DFT-s-OFDM 16 QAM	25@12	22.18	17.03	0.0505
13	15	10	150200	782	DFT-s-OFDM 16 QAM	1@1	22.22	17.07	0.0509
13	15	10	150200	782	DFT-s-OFDM 16 QAM	1@50	22.25	17.1	0.0513
13	15	10	150200	782	DFT-s-OFDM 64 QAM	25@12	20.8	15.65	0.0367
13	15	10	150200	782	DFT-s-OFDM 64 QAM	1@1	20.7	15.55	0.0359
13	15	10	150200	782	DFT-s-OFDM 64 QAM	1@50	20.72	15.57	0.0361
13	15	10	150200	782	DFT-s-OFDM 256 QAM	25@12	18.59	13.44	0.0221
13	15	10	150200	782	DFT-s-OFDM 256 QAM	1@1	18.31	13.16	0.0207
13	15	10	150200	782	DFT-s-OFDM 256 QAM	1@50	18.38	13.23	0.0210
13	15	10	150200	782	CP-OFDM QPSK	26@13	21.65	16.5	0.0447
13	15	10	150200	782	CP-OFDM QPSK	1@1	21.71	16.56	0.0453
13	15	10	150200	782	CP-OFDM QPSK	1@50	21.52	16.37	0.0434

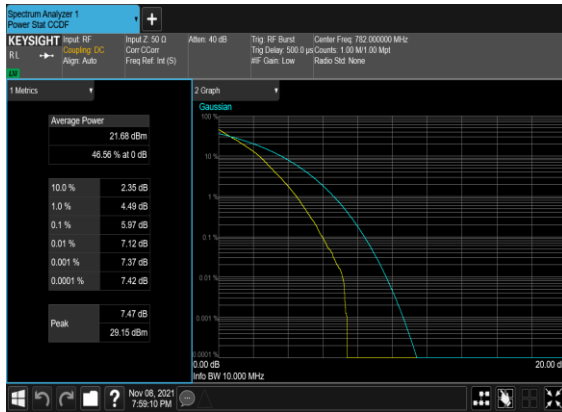
Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
13	15	10	150200	782.0	DFT-s-OFDM QPSK	50@0	-0.00678	PASS	NV
13	15	10	150200	782.0	DFT-s-OFDM QPSK	50@0	-0.00191	PASS	LV
13	15	10	150200	782.0	DFT-s-OFDM QPSK	50@0	-0.00258	PASS	HV
13	15	10	150200	782.0	DFT-s-OFDM QPSK	50@0	-0.00187	PASS	-30°C
13	15	10	150200	782.0	DFT-s-OFDM QPSK	50@0	-0.0075	PASS	-20°C
13	15	10	150200	782.0	DFT-s-OFDM QPSK	50@0	-0.00388	PASS	-10°C
13	15	10	150200	782.0	DFT-s-OFDM QPSK	50@0	-0.00346	PASS	0°C
13	15	10	150200	782.0	DFT-s-OFDM QPSK	50@0	-0.00224	PASS	10°C
13	15	10	150200	782.0	DFT-s-OFDM QPSK	50@0	-0.00182	PASS	20°C
13	15	10	150200	782.0	DFT-s-OFDM QPSK	50@0	-0.0075	PASS	30°C
13	15	10	150200	782.0	DFT-s-OFDM QPSK	50@0	-0.00501	PASS	40°C
13	15	10	150200	782.0	DFT-s-OFDM QPSK	50@0	-0.0072	PASS	50°C

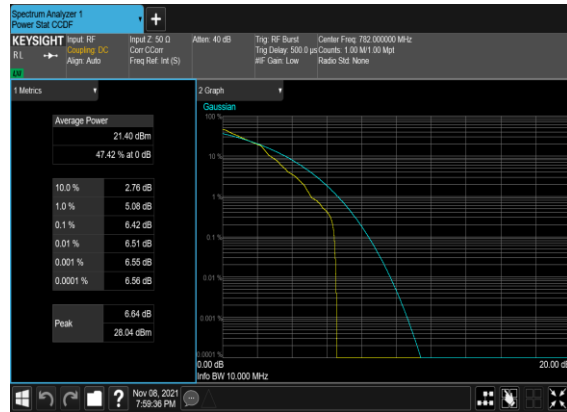
Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
13	15	10	150200	782.0	DFT-s-OFDM QPSK	50@0	5.97	13	PASS
13	15	10	150200	782.0	DFT-s-OFDM QPSK	1@0	6.42	13	PASS

N13(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



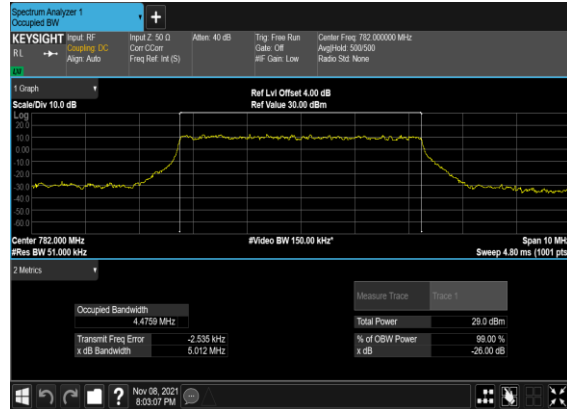
N13(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



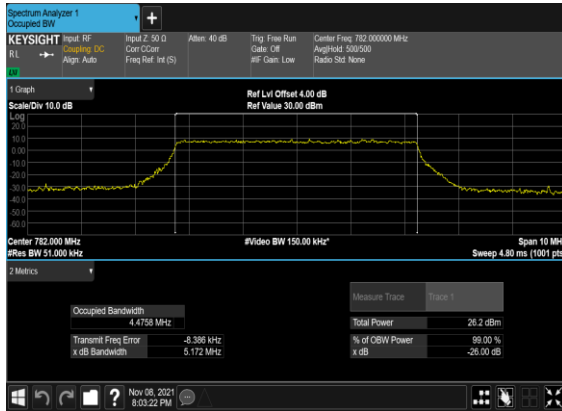
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
13	15	5	150200	782.0	DFT-s-OFDM QPSK	25@0	4.4759	5.012
13	15	5	150200	782.0	CP-OFDM QPSK	25@0	4.4758	5.172
13	15	5	150200	782.0	CP-OFDM 16 QAM	25@0	4.4934	5.194
13	15	5	150200	782.0	CP-OFDM 64 QAM	25@0	4.4648	5.032
13	15	5	150200	782.0	CP-OFDM 256 QAM	25@0	4.4793	5.02
13	15	10	150200	782.0	DFT-s-OFDM QPSK	50@0	8.9161	9.651
13	15	10	150200	782.0	CP-OFDM QPSK	52@0	9.2723	10.04
13	15	10	150200	782.0	CP-OFDM 16 QAM	52@0	9.2847	10.04
13	15	10	150200	782.0	CP-OFDM 64 QAM	52@0	9.2702	10.07
13	15	10	150200	782.0	CP-OFDM 256 QAM	52@0	9.2728	10.07

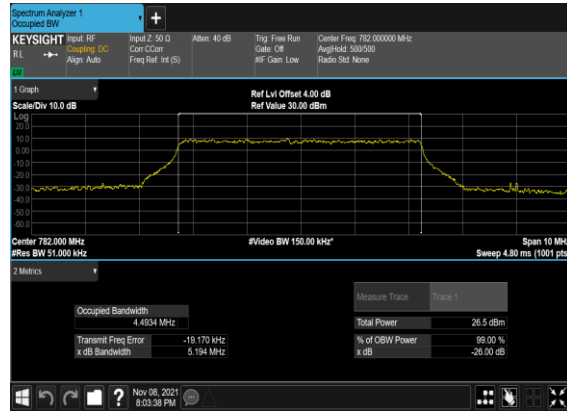
N13(5M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



N13(5M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



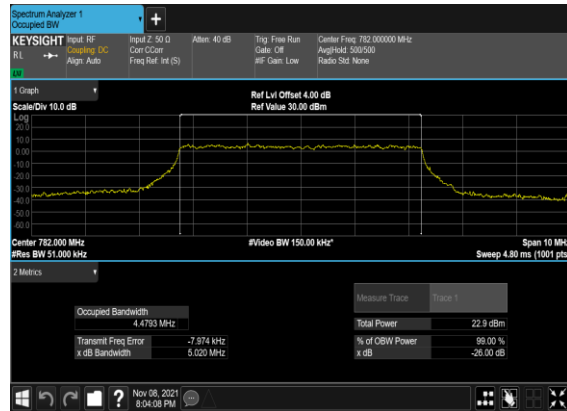
N13(5M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



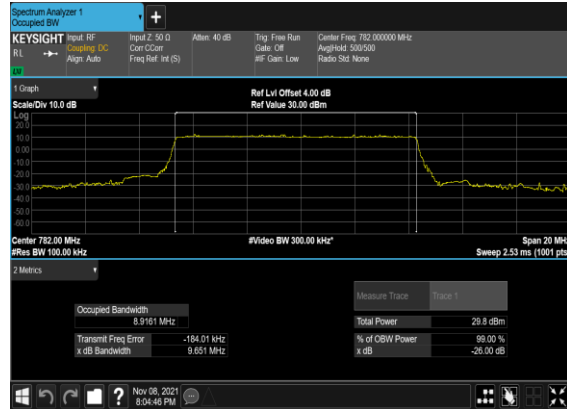
N13(5M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



N13(5M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



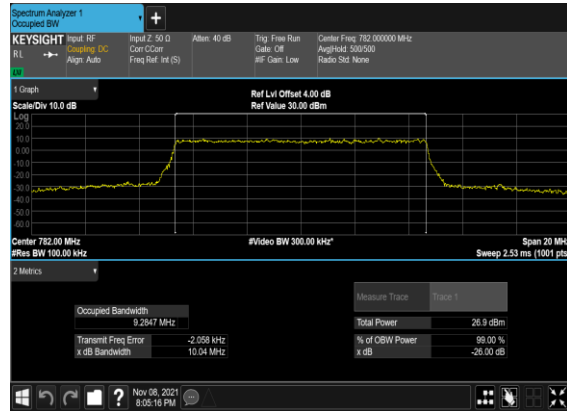
N13(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



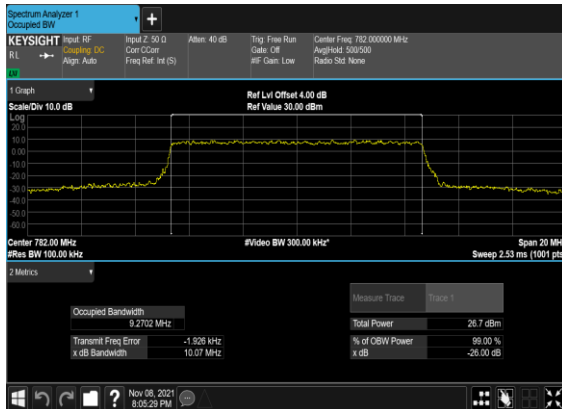
N13(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



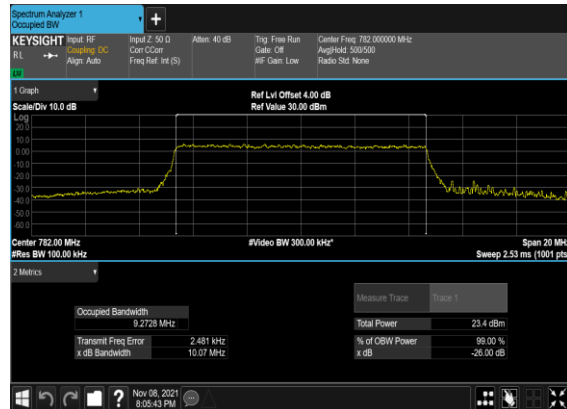
N13(10M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N13(10M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



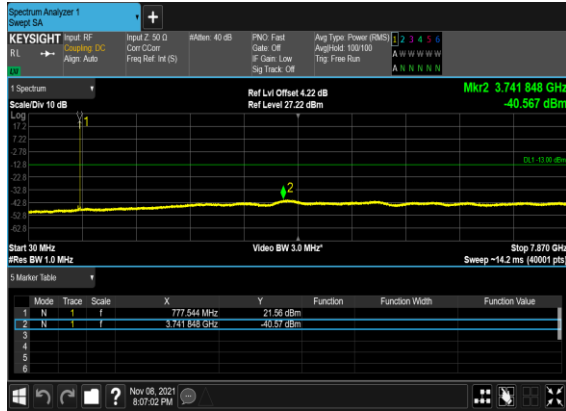
N13(10M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



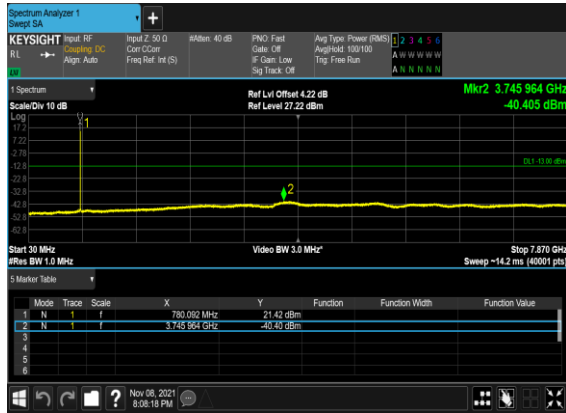
Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
13	15	5	149700	779.5	DFT-s-OFDM QPSK	1@0	see graph	---
13	15	5	149700	779.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
13	15	5	150200	782.0	DFT-s-OFDM QPSK	1@0	see graph	---
13	15	5	150200	782.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
13	15	5	150700	784.5	DFT-s-OFDM QPSK	1@0	see graph	---
13	15	5	150700	784.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
13	15	10	150200	782.0	DFT-s-OFDM QPSK	1@0	see graph	---
13	15	10	150200	782.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

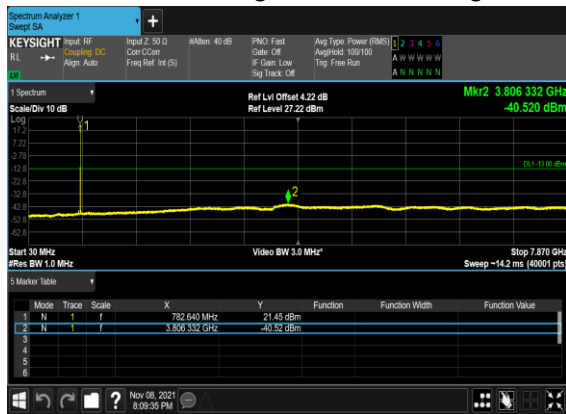
N13(5M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Low_CH



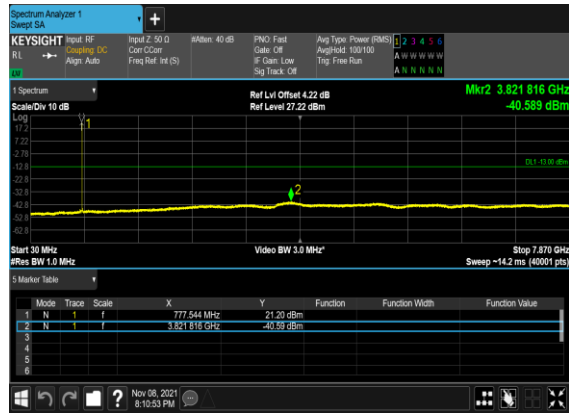
N13(5M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Mid_CH



N13(5M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_High_CH



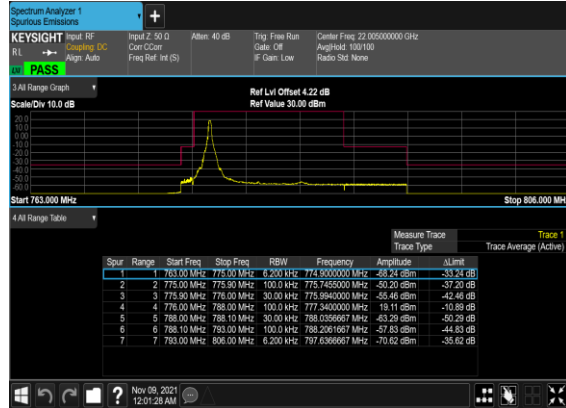
N13(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



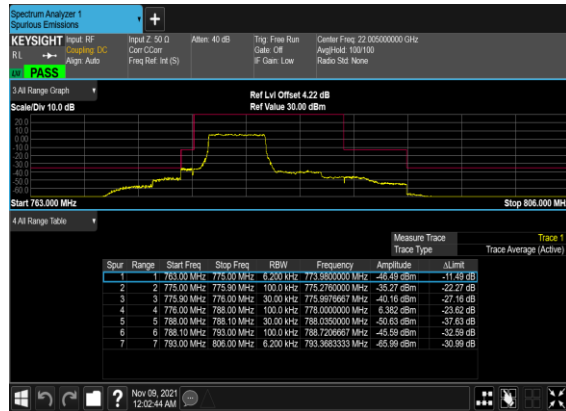
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
13	15	5	149700	779.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
13	15	5	149700	779.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
13	15	5	150700	784.5	DFT-s-OFDM QPSK	1@24	see graph	PASS
13	15	5	150700	784.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
13	15	10	150200	782.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
13	15	10	150200	782.0	DFT-s-OFDM QPSK	1@51	see graph	PASS
13	15	10	150200	782.0	DFT-s-OFDM QPSK	50@0	see graph	PASS

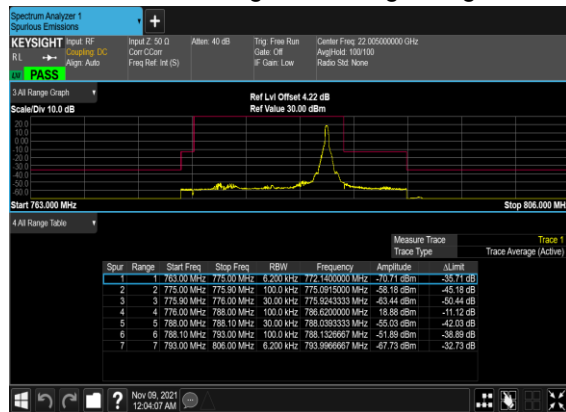
N13(5M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Low_CH



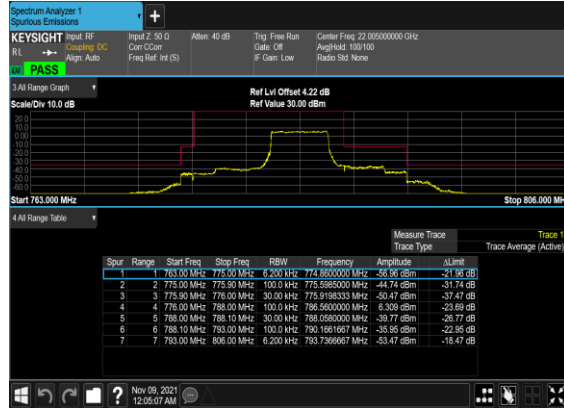
N13(5M)_DFT-s- OFDM_QPSK_Outer_Full_Low_CH



N13(5M)_DFT-s- OFDM_QPSK_Edge_1RB_Right_High_CH



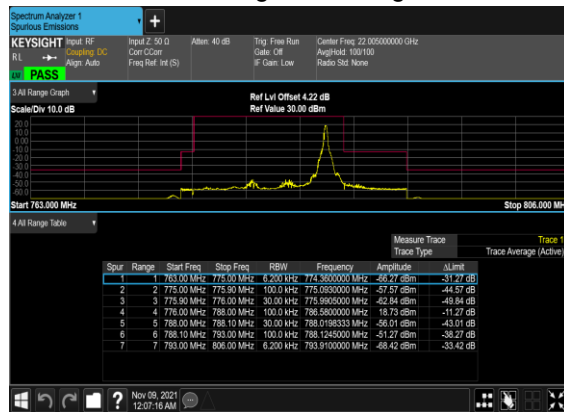
N13(5M)_DFT-s- OFDM_QPSK_Outer_Full_High_CH



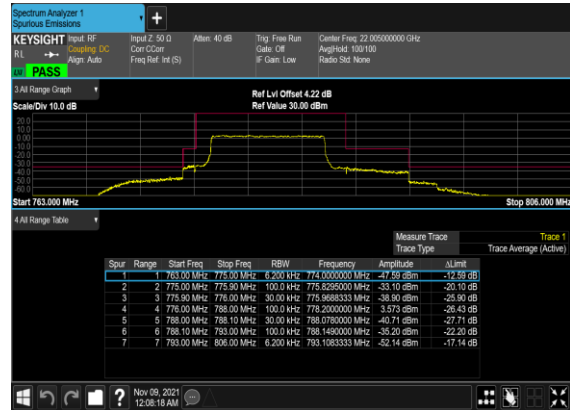
N13(10M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Mid_CH



N13(10M)_DFT-s- OFDM_QPSK_Edge_1RB_Right_Mid_CH



N13(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



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<Ant. 4>

Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)= -1.0dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
25	15	5	386500	1852.5	DFT-s-OFDM QPSK	12@6	22.94	21.94	0.1563
25	15	5	386500	1852.5	DFT-s-OFDM QPSK	1@1	22.94	21.94	0.1563
25	15	5	386500	1852.5	DFT-s-OFDM QPSK	1@23	23.03	22.03	0.1596
25	15	5	386500	1852.5	DFT-s-OFDM 16 QAM	12@6	21.83	20.83	0.1211
25	15	5	386500	1852.5	DFT-s-OFDM 16 QAM	1@1	22.06	21.06	0.1276
25	15	5	386500	1852.5	DFT-s-OFDM 16 QAM	1@23	22.01	21.01	0.1262
25	15	5	386500	1852.5	DFT-s-OFDM 64 QAM	12@6	20.46	19.46	0.0883
25	15	5	386500	1852.5	DFT-s-OFDM 64 QAM	1@1	20.56	19.56	0.0904
25	15	5	386500	1852.5	DFT-s-OFDM 64 QAM	1@23	20.5	19.5	0.0891
25	15	5	386500	1852.5	DFT-s-OFDM 256 QAM	12@6	18.12	17.12	0.0515
25	15	5	386500	1852.5	DFT-s-OFDM 256 QAM	1@1	18.15	17.15	0.0519
25	15	5	386500	1852.5	DFT-s-OFDM 256 QAM	1@23	18.1	17.1	0.0513
25	15	5	386500	1852.5	CP-OFDM QPSK	13@6	21.4	20.4	0.1096
25	15	5	386500	1852.5	CP-OFDM QPSK	1@1	21.33	20.33	0.1079
25	15	5	386500	1852.5	CP-OFDM QPSK	1@23	21.3	20.3	0.1072
25	15	5	392500	1882.5	DFT-s-OFDM QPSK	12@6	22.79	21.79	0.1510
25	15	5	392500	1882.5	DFT-s-OFDM QPSK	1@1	22.79	21.79	0.1510
25	15	5	392500	1882.5	DFT-s-OFDM QPSK	1@23	22.85	21.85	0.1531
25	15	5	392500	1882.5	DFT-s-OFDM 16 QAM	12@6	21.68	20.68	0.1169
25	15	5	392500	1882.5	DFT-s-OFDM 16 QAM	1@1	21.87	20.87	0.1222
25	15	5	392500	1882.5	DFT-s-OFDM 16 QAM	1@23	21.87	20.87	0.1222
25	15	5	392500	1882.5	DFT-s-OFDM 64 QAM	12@6	20.32	19.32	0.0855
25	15	5	392500	1882.5	DFT-s-OFDM 64 QAM	1@1	20.39	19.39	0.0869
25	15	5	392500	1882.5	DFT-s-OFDM 64 QAM	1@23	20.35	19.35	0.0861
25	15	5	392500	1882.5	DFT-s-OFDM 256 QAM	12@6	18.18	17.18	0.0522
25	15	5	392500	1882.5	DFT-s-OFDM 256 QAM	1@1	18.05	17.05	0.0507
25	15	5	392500	1882.5	DFT-s-OFDM 256 QAM	1@23	18.05	17.05	0.0507
25	15	5	392500	1882.5	CP-OFDM	13@6	21.24	20.24	0.1057

					QPSK					
25	15	5	392500	1882.5	CP-OFDM QPSK	1@1	21.22	20.22	0.1052	
25	15	5	392500	1882.5	CP-OFDM QPSK	1@23	21.16	20.16	0.1038	
25	15	5	398500	1912.5	DFT-s-OFDM QPSK	12@6	22.5	21.5	0.1413	
25	15	5	398500	1912.5	DFT-s-OFDM QPSK	1@1	22.77	21.77	0.1503	
25	15	5	398500	1912.5	DFT-s-OFDM QPSK	1@23	22.02	21.02	0.1265	
25	15	5	398500	1912.5	DFT-s-OFDM 16 QAM	12@6	21.41	20.41	0.1099	
25	15	5	398500	1912.5	DFT-s-OFDM 16 QAM	1@1	21.69	20.69	0.1172	
25	15	5	398500	1912.5	DFT-s-OFDM 16 QAM	1@23	21.2	20.2	0.1047	
25	15	5	398500	1912.5	DFT-s-OFDM 64 QAM	12@6	20.13	19.13	0.0818	
25	15	5	398500	1912.5	DFT-s-OFDM 64 QAM	1@1	20.23	19.23	0.0838	
25	15	5	398500	1912.5	DFT-s-OFDM 64 QAM	1@23	19.75	18.75	0.0750	
25	15	5	398500	1912.5	DFT-s-OFDM 256 QAM	12@6	18.05	17.05	0.0507	
25	15	5	398500	1912.5	DFT-s-OFDM 256 QAM	1@1	17.96	16.96	0.0497	
25	15	5	398500	1912.5	DFT-s-OFDM 256 QAM	1@23	17.93	16.93	0.0493	
25	15	5	398500	1912.5	CP-OFDM QPSK	13@6	21.02	20.02	0.1005	
25	15	5	398500	1912.5	CP-OFDM QPSK	1@1	21.2	20.2	0.1047	
25	15	5	398500	1912.5	CP-OFDM QPSK	1@23	20.49	19.49	0.0889	
25	15	10	387000	1855	DFT-s-OFDM QPSK	25@12	22.86	21.86	0.1535	
25	15	10	387000	1855	DFT-s-OFDM QPSK	1@1	22.83	21.83	0.1524	
25	15	10	387000	1855	DFT-s-OFDM QPSK	1@50	22.76	21.76	0.1500	
25	15	10	387000	1855	DFT-s-OFDM 16 QAM	25@12	21.88	20.88	0.1225	
25	15	10	387000	1855	DFT-s-OFDM 16 QAM	1@1	21.89	20.89	0.1227	
25	15	10	387000	1855	DFT-s-OFDM 16 QAM	1@50	21.85	20.85	0.1216	
25	15	10	387000	1855	DFT-s-OFDM 64 QAM	25@12	20.46	19.46	0.0883	
25	15	10	387000	1855	DFT-s-OFDM 64 QAM	1@1	20.42	19.42	0.0875	
25	15	10	387000	1855	DFT-s-OFDM 64 QAM	1@50	20.35	19.35	0.0861	
25	15	10	387000	1855	DFT-s-OFDM 256 QAM	25@12	18.26	17.26	0.0532	
25	15	10	387000	1855	DFT-s-OFDM 256 QAM	1@1	18.05	17.05	0.0507	
25	15	10	387000	1855	DFT-s-OFDM 256 QAM	1@50	18.14	17.14	0.0518	
25	15	10	387000	1855	CP-OFDM QPSK	26@13	21.4	20.4	0.1096	
25	15	10	387000	1855	CP-OFDM QPSK	1@1	21.19	20.19	0.1045	
25	15	10	387000	1855	CP-OFDM QPSK	1@50	21.16	20.16	0.1038	
25	15	10	392500	1882.5	DFT-s-OFDM QPSK	25@12	22.81	21.81	0.1517	

25	15	10	392500	1882.5	DFT-s-OFDM QPSK	1@1	22.72	21.72	0.1486
25	15	10	392500	1882.5	DFT-s-OFDM QPSK	1@50	22.7	21.7	0.1479
25	15	10	392500	1882.5	DFT-s-OFDM 16 QAM	25@12	21.79	20.79	0.1199
25	15	10	392500	1882.5	DFT-s-OFDM 16 QAM	1@1	21.81	20.81	0.1205
25	15	10	392500	1882.5	DFT-s-OFDM 16 QAM	1@50	21.83	20.83	0.1211
25	15	10	392500	1882.5	DFT-s-OFDM 64 QAM	25@12	20.41	19.41	0.0873
25	15	10	392500	1882.5	DFT-s-OFDM 64 QAM	1@1	20.32	19.32	0.0855
25	15	10	392500	1882.5	DFT-s-OFDM 64 QAM	1@50	20.3	19.3	0.0851
25	15	10	392500	1882.5	DFT-s-OFDM 256 QAM	25@12	18.1	17.1	0.0513
25	15	10	392500	1882.5	DFT-s-OFDM 256 QAM	1@1	18	17	0.0501
25	15	10	392500	1882.5	DFT-s-OFDM 256 QAM	1@50	17.99	16.99	0.0500
25	15	10	392500	1882.5	CP-OFDM QPSK	26@13	21.12	20.12	0.1028
25	15	10	392500	1882.5	CP-OFDM QPSK	1@1	21.13	20.13	0.1030
25	15	10	392500	1882.5	CP-OFDM QPSK	1@50	21.09	20.09	0.1021
25	15	10	398000	1910	DFT-s-OFDM QPSK	25@12	22.77	21.77	0.1503
25	15	10	398000	1910	DFT-s-OFDM QPSK	1@1	22.72	21.72	0.1486
25	15	10	398000	1910	DFT-s-OFDM QPSK	1@50	22.25	21.25	0.1334
25	15	10	398000	1910	DFT-s-OFDM 16 QAM	25@12	21.73	20.73	0.1183
25	15	10	398000	1910	DFT-s-OFDM 16 QAM	1@1	21.79	20.79	0.1199
25	15	10	398000	1910	DFT-s-OFDM 16 QAM	1@50	21.55	20.55	0.1135
25	15	10	398000	1910	DFT-s-OFDM 64 QAM	25@12	20.39	19.39	0.0869
25	15	10	398000	1910	DFT-s-OFDM 64 QAM	1@1	20.27	19.27	0.0845
25	15	10	398000	1910	DFT-s-OFDM 64 QAM	1@50	20.11	19.11	0.0815
25	15	10	398000	1910	DFT-s-OFDM 256 QAM	25@12	18.21	17.21	0.0526
25	15	10	398000	1910	DFT-s-OFDM 256 QAM	1@1	17.99	16.99	0.0500
25	15	10	398000	1910	DFT-s-OFDM 256 QAM	1@50	17.95	16.95	0.0495
25	15	10	398000	1910	CP-OFDM QPSK	26@13	21.19	20.19	0.1045
25	15	10	398000	1910	CP-OFDM QPSK	1@1	21.04	20.04	0.1009
25	15	10	398000	1910	CP-OFDM QPSK	1@50	20.9	19.9	0.0977
25	15	15	387500	1857.5	DFT-s-OFDM QPSK	36@18	23.05	22.05	0.1603
25	15	15	387500	1857.5	DFT-s-OFDM QPSK	1@1	23.13	22.13	0.1633
25	15	15	387500	1857.5	DFT-s-OFDM QPSK	1@77	23.05	22.05	0.1603
25	15	15	387500	1857.5	DFT-s-OFDM 16 QAM	36@18	22.08	21.08	0.1282
25	15	15	387500	1857.5	DFT-s-OFDM 16 QAM	1@1	22.18	21.18	0.1312

25	15	15	387500	1857.5	DFT-s-OFDM 16 QAM	1@77	22.09	21.09	0.1285
25	15	15	387500	1857.5	DFT-s-OFDM 64 QAM	36@18	20.67	19.67	0.0927
25	15	15	387500	1857.5	DFT-s-OFDM 64 QAM	1@1	20.69	19.69	0.0931
25	15	15	387500	1857.5	DFT-s-OFDM 64 QAM	1@77	20.61	19.61	0.0914
25	15	15	387500	1857.5	DFT-s-OFDM 256 QAM	36@18	18.5	17.5	0.0562
25	15	15	387500	1857.5	DFT-s-OFDM 256 QAM	1@1	18.35	17.35	0.0543
25	15	15	387500	1857.5	DFT-s-OFDM 256 QAM	1@77	18.29	17.29	0.0536
25	15	15	387500	1857.5	CP-OFDM QPSK	39@19	21.6	20.6	0.1148
25	15	15	387500	1857.5	CP-OFDM QPSK	1@1	21.68	20.68	0.1169
25	15	15	387500	1857.5	CP-OFDM QPSK	1@77	21.4	20.4	0.1096
25	15	15	392500	1882.5	DFT-s-OFDM QPSK	36@18	22.98	21.98	0.1578
25	15	15	392500	1882.5	DFT-s-OFDM QPSK	1@1	22.94	21.94	0.1563
25	15	15	392500	1882.5	DFT-s-OFDM QPSK	1@77	22.92	21.92	0.1556
25	15	15	392500	1882.5	DFT-s-OFDM 16 QAM	36@18	21.95	20.95	0.1245
25	15	15	392500	1882.5	DFT-s-OFDM 16 QAM	1@1	22.08	21.08	0.1282
25	15	15	392500	1882.5	DFT-s-OFDM 16 QAM	1@77	22	21	0.1259
25	15	15	392500	1882.5	DFT-s-OFDM 64 QAM	36@18	20.46	19.46	0.0883
25	15	15	392500	1882.5	DFT-s-OFDM 64 QAM	1@1	20.5	19.5	0.0891
25	15	15	392500	1882.5	DFT-s-OFDM 64 QAM	1@77	20.53	19.53	0.0897
25	15	15	392500	1882.5	DFT-s-OFDM 256 QAM	36@18	18.37	17.37	0.0546
25	15	15	392500	1882.5	DFT-s-OFDM 256 QAM	1@1	18.22	17.22	0.0527
25	15	15	392500	1882.5	DFT-s-OFDM 256 QAM	1@77	18.19	17.19	0.0524
25	15	15	392500	1882.5	CP-OFDM QPSK	39@19	21.45	20.45	0.1109
25	15	15	392500	1882.5	CP-OFDM QPSK	1@1	21.52	20.52	0.1127
25	15	15	392500	1882.5	CP-OFDM QPSK	1@77	21.29	20.29	0.1069
25	15	15	397500	1907.5	DFT-s-OFDM QPSK	36@18	22.83	21.83	0.1524
25	15	15	397500	1907.5	DFT-s-OFDM QPSK	1@1	22.86	21.86	0.1535
25	15	15	397500	1907.5	DFT-s-OFDM QPSK	1@77	22.63	21.63	0.1455
25	15	15	397500	1907.5	DFT-s-OFDM 16 QAM	36@18	21.84	20.84	0.1213
25	15	15	397500	1907.5	DFT-s-OFDM 16 QAM	1@1	21.95	20.95	0.1245
25	15	15	397500	1907.5	DFT-s-OFDM 16 QAM	1@77	21.77	20.77	0.1194
25	15	15	397500	1907.5	DFT-s-OFDM 64 QAM	36@18	20.34	19.34	0.0859
25	15	15	397500	1907.5	DFT-s-OFDM 64 QAM	1@1	20.42	19.42	0.0875
25	15	15	397500	1907.5	DFT-s-OFDM 64 QAM	1@77	20.34	19.34	0.0859

25	15	15	397500	1907.5	DFT-s-OFDM 256 QAM	36@18	18.25	17.25	0.0531
25	15	15	397500	1907.5	DFT-s-OFDM 256 QAM	1@1	18.17	17.17	0.0521
25	15	15	397500	1907.5	DFT-s-OFDM 256 QAM	1@77	18.13	17.13	0.0516
25	15	15	397500	1907.5	CP-OFDM QPSK	39@19	21.3	20.3	0.1072
25	15	15	397500	1907.5	CP-OFDM QPSK	1@1	21.42	20.42	0.1102
25	15	15	397500	1907.5	CP-OFDM QPSK	1@77	21.1	20.1	0.1023
25	15	20	388000	1860	DFT-s-OFDM QPSK	50@25	23.11	22.11	0.1626
25	15	20	388000	1860	DFT-s-OFDM QPSK	1@1	23.1	22.1	0.1622
25	15	20	388000	1860	DFT-s-OFDM QPSK	1@104	23.01	22.01	0.1589
25	15	20	388000	1860	DFT-s-OFDM 16 QAM	50@25	22.04	21.04	0.1271
25	15	20	388000	1860	DFT-s-OFDM 16 QAM	1@1	22.12	21.12	0.1294
25	15	20	388000	1860	DFT-s-OFDM 16 QAM	1@104	22.09	21.09	0.1285
25	15	20	388000	1860	DFT-s-OFDM 64 QAM	50@25	20.63	19.63	0.0918
25	15	20	388000	1860	DFT-s-OFDM 64 QAM	1@1	20.61	19.61	0.0914
25	15	20	388000	1860	DFT-s-OFDM 64 QAM	1@104	20.56	19.56	0.0904
25	15	20	388000	1860	DFT-s-OFDM 256 QAM	50@25	18.53	17.53	0.0566
25	15	20	388000	1860	DFT-s-OFDM 256 QAM	1@1	18.39	17.39	0.0548
25	15	20	388000	1860	DFT-s-OFDM 256 QAM	1@104	18.3	17.3	0.0537
25	15	20	388000	1860	CP-OFDM QPSK	53@26	21.56	20.56	0.1138
25	15	20	388000	1860	CP-OFDM QPSK	1@1	21.38	20.38	0.1091
25	15	20	388000	1860	CP-OFDM QPSK	1@104	21.33	20.33	0.1079
25	15	20	392500	1882.5	DFT-s-OFDM QPSK	50@25	22.97	21.97	0.1574
25	15	20	392500	1882.5	DFT-s-OFDM QPSK	1@1	22.9	21.9	0.1549
25	15	20	392500	1882.5	DFT-s-OFDM QPSK	1@104	22.87	21.87	0.1538
25	15	20	392500	1882.5	DFT-s-OFDM 16 QAM	50@25	21.93	20.93	0.1239
25	15	20	392500	1882.5	DFT-s-OFDM 16 QAM	1@1	22.01	21.01	0.1262
25	15	20	392500	1882.5	DFT-s-OFDM 16 QAM	1@104	21.94	20.94	0.1242
25	15	20	392500	1882.5	DFT-s-OFDM 64 QAM	50@25	20.51	19.51	0.0893
25	15	20	392500	1882.5	DFT-s-OFDM 64 QAM	1@1	20.45	19.45	0.0881
25	15	20	392500	1882.5	DFT-s-OFDM 64 QAM	1@104	20.45	19.45	0.0881
25	15	20	392500	1882.5	DFT-s-OFDM 256 QAM	50@25	18.4	17.4	0.0550
25	15	20	392500	1882.5	DFT-s-OFDM 256 QAM	1@1	18.22	17.22	0.0527
25	15	20	392500	1882.5	DFT-s-OFDM 256 QAM	1@104	18.24	17.24	0.0530
25	15	20	392500	1882.5	CP-OFDM QPSK	53@26	21.49	20.49	0.1119

25	15	20	392500	1882.5	CP-OFDM QPSK	1@1	21.5	20.5	0.1122
25	15	20	392500	1882.5	CP-OFDM QPSK	1@104	21.44	20.44	0.1107
25	15	20	397000	1905	DFT-s-OFDM QPSK	50@25	22.88	21.88	0.1542
25	15	20	397000	1905	DFT-s-OFDM QPSK	1@1	22.89	21.89	0.1545
25	15	20	397000	1905	DFT-s-OFDM QPSK	1@104	22.56	21.56	0.1432
25	15	20	397000	1905	DFT-s-OFDM 16 QAM	50@25	21.87	20.87	0.1222
25	15	20	397000	1905	DFT-s-OFDM 16 QAM	1@1	21.95	20.95	0.1245
25	15	20	397000	1905	DFT-s-OFDM 16 QAM	1@104	21.83	20.83	0.1211
25	15	20	397000	1905	DFT-s-OFDM 64 QAM	50@25	20.44	19.44	0.0879
25	15	20	397000	1905	DFT-s-OFDM 64 QAM	1@1	20.42	19.42	0.0875
25	15	20	397000	1905	DFT-s-OFDM 64 QAM	1@104	20.39	19.39	0.0869
25	15	20	397000	1905	DFT-s-OFDM 256 QAM	50@25	18.32	17.32	0.0540
25	15	20	397000	1905	DFT-s-OFDM 256 QAM	1@1	18.18	17.18	0.0522
25	15	20	397000	1905	DFT-s-OFDM 256 QAM	1@104	17.84	16.84	0.0483
25	15	20	397000	1905	CP-OFDM QPSK	53@26	21.45	20.45	0.1109
25	15	20	397000	1905	CP-OFDM QPSK	1@1	21.26	20.26	0.1062
25	15	20	397000	1905	CP-OFDM QPSK	1@104	21.1	20.1	0.1023
25	15	25	388500	1862.5	DFT-s-OFDM QPSK	64@32	23.09	22.09	0.1618
25	15	25	388500	1862.5	DFT-s-OFDM QPSK	1@1	23.12	22.12	0.1629
25	15	25	388500	1862.5	DFT-s-OFDM QPSK	1@131	23.06	22.06	0.1607
25	15	25	388500	1862.5	DFT-s-OFDM 16 QAM	64@32	22.05	21.05	0.1274
25	15	25	388500	1862.5	DFT-s-OFDM 16 QAM	1@1	22.13	21.13	0.1297
25	15	25	388500	1862.5	DFT-s-OFDM 16 QAM	1@131	22.1	21.1	0.1288
25	15	25	388500	1862.5	DFT-s-OFDM 64 QAM	64@32	20.59	19.59	0.0910
25	15	25	388500	1862.5	DFT-s-OFDM 64 QAM	1@1	20.68	19.68	0.0929
25	15	25	388500	1862.5	DFT-s-OFDM 64 QAM	1@131	20.56	19.56	0.0904
25	15	25	388500	1862.5	DFT-s-OFDM 256 QAM	64@32	18.55	17.55	0.0569
25	15	25	388500	1862.5	DFT-s-OFDM 256 QAM	1@1	18.68	17.68	0.0586
25	15	25	388500	1862.5	DFT-s-OFDM 256 QAM	1@131	18.69	17.69	0.0587
25	15	25	388500	1862.5	CP-OFDM QPSK	67@33	21.59	20.59	0.1146
25	15	25	388500	1862.5	CP-OFDM QPSK	1@1	21.67	20.67	0.1167
25	15	25	388500	1862.5	CP-OFDM QPSK	1@131	21.6	20.6	0.1148
25	15	25	392500	1882.5	DFT-s-OFDM QPSK	64@32	23	22	0.1585
25	15	25	392500	1882.5	DFT-s-OFDM QPSK	1@1	22.98	21.98	0.1578

25	15	25	392500	1882.5	DFT-s-OFDM QPSK	1@131	22.96	21.96	0.1570
25	15	25	392500	1882.5	DFT-s-OFDM 16 QAM	64@32	21.96	20.96	0.1247
25	15	25	392500	1882.5	DFT-s-OFDM 16 QAM	1@1	22.06	21.06	0.1276
25	15	25	392500	1882.5	DFT-s-OFDM 16 QAM	1@131	22	21	0.1259
25	15	25	392500	1882.5	DFT-s-OFDM 64 QAM	64@32	20.51	19.51	0.0893
25	15	25	392500	1882.5	DFT-s-OFDM 64 QAM	1@1	20.52	19.52	0.0895
25	15	25	392500	1882.5	DFT-s-OFDM 64 QAM	1@131	20.52	19.52	0.0895
25	15	25	392500	1882.5	DFT-s-OFDM 256 QAM	64@32	18.44	17.44	0.0555
25	15	25	392500	1882.5	DFT-s-OFDM 256 QAM	1@1	18.56	17.56	0.0570
25	15	25	392500	1882.5	DFT-s-OFDM 256 QAM	1@131	18.58	17.58	0.0573
25	15	25	392500	1882.5	CP-OFDM QPSK	67@33	21.49	20.49	0.1119
25	15	25	392500	1882.5	CP-OFDM QPSK	1@1	21.55	20.55	0.1135
25	15	25	392500	1882.5	CP-OFDM QPSK	1@131	21.52	20.52	0.1127
25	15	25	396500	1902.5	DFT-s-OFDM QPSK	64@32	22.94	21.94	0.1563
25	15	25	396500	1902.5	DFT-s-OFDM QPSK	1@1	22.93	21.93	0.1560
25	15	25	396500	1902.5	DFT-s-OFDM QPSK	1@131	22.51	21.51	0.1416
25	15	25	396500	1902.5	DFT-s-OFDM 16 QAM	64@32	21.86	20.86	0.1219
25	15	25	396500	1902.5	DFT-s-OFDM 16 QAM	1@1	21.99	20.99	0.1256
25	15	25	396500	1902.5	DFT-s-OFDM 16 QAM	1@131	21.85	20.85	0.1216
25	15	25	396500	1902.5	DFT-s-OFDM 64 QAM	64@32	20.43	19.43	0.0877
25	15	25	396500	1902.5	DFT-s-OFDM 64 QAM	1@1	20.48	19.48	0.0887
25	15	25	396500	1902.5	DFT-s-OFDM 64 QAM	1@131	20.34	19.34	0.0859
25	15	25	396500	1902.5	DFT-s-OFDM 256 QAM	64@32	18.38	17.38	0.0547
25	15	25	396500	1902.5	DFT-s-OFDM 256 QAM	1@1	18.51	17.51	0.0564
25	15	25	396500	1902.5	DFT-s-OFDM 256 QAM	1@131	18.52	17.52	0.0565
25	15	25	396500	1902.5	CP-OFDM QPSK	67@33	21.42	20.42	0.1102
25	15	25	396500	1902.5	CP-OFDM QPSK	1@1	21.47	20.47	0.1114
25	15	25	396500	1902.5	CP-OFDM QPSK	1@131	21.25	20.25	0.1059
25	15	30	389000	1865	DFT-s-OFDM QPSK	80@40	23.12	22.12	0.1629
25	15	30	389000	1865	DFT-s-OFDM QPSK	1@1	23.09	22.09	0.1618
25	15	30	389000	1865	DFT-s-OFDM QPSK	1@158	23.1	22.1	0.1622
25	15	30	389000	1865	DFT-s-OFDM 16 QAM	80@40	22.06	21.06	0.1276
25	15	30	389000	1865	DFT-s-OFDM 16 QAM	1@1	22.1	21.1	0.1288
25	15	30	389000	1865	DFT-s-OFDM 16 QAM	1@158	22.15	21.15	0.1303

25	15	30	389000	1865	DFT-s-OFDM 64 QAM	80@40	20.63	19.63	0.0918
25	15	30	389000	1865	DFT-s-OFDM 64 QAM	1@1	20.66	19.66	0.0925
25	15	30	389000	1865	DFT-s-OFDM 64 QAM	1@158	20.65	19.65	0.0923
25	15	30	389000	1865	DFT-s-OFDM 256 QAM	80@40	18.58	17.58	0.0573
25	15	30	389000	1865	DFT-s-OFDM 256 QAM	1@1	18.37	17.37	0.0546
25	15	30	389000	1865	DFT-s-OFDM 256 QAM	1@158	18.41	17.41	0.0551
25	15	30	389000	1865	CP-OFDM QPSK	80@40	21.6	20.6	0.1148
25	15	30	389000	1865	CP-OFDM QPSK	1@1	21.39	20.39	0.1094
25	15	30	389000	1865	CP-OFDM QPSK	1@158	21.53	20.53	0.1130
25	15	30	392500	1882.5	DFT-s-OFDM QPSK	80@40	23.09	22.09	0.1618
25	15	30	392500	1882.5	DFT-s-OFDM QPSK	1@1	22.97	21.97	0.1574
25	15	30	392500	1882.5	DFT-s-OFDM QPSK	1@158	23.07	22.07	0.1611
25	15	30	392500	1882.5	DFT-s-OFDM 16 QAM	80@40	21.96	20.96	0.1247
25	15	30	392500	1882.5	DFT-s-OFDM 16 QAM	1@1	22.05	21.05	0.1274
25	15	30	392500	1882.5	DFT-s-OFDM 16 QAM	1@158	22.14	21.14	0.1300
25	15	30	392500	1882.5	DFT-s-OFDM 64 QAM	80@40	20.52	19.52	0.0895
25	15	30	392500	1882.5	DFT-s-OFDM 64 QAM	1@1	20.54	19.54	0.0899
25	15	30	392500	1882.5	DFT-s-OFDM 64 QAM	1@158	20.68	19.68	0.0929
25	15	30	392500	1882.5	DFT-s-OFDM 256 QAM	80@40	18.44	17.44	0.0555
25	15	30	392500	1882.5	DFT-s-OFDM 256 QAM	1@1	18.27	17.27	0.0533
25	15	30	392500	1882.5	DFT-s-OFDM 256 QAM	1@158	18.41	17.41	0.0551
25	15	30	392500	1882.5	CP-OFDM QPSK	80@40	21.47	20.47	0.1114
25	15	30	392500	1882.5	CP-OFDM QPSK	1@1	21.53	20.53	0.1130
25	15	30	392500	1882.5	CP-OFDM QPSK	1@158	21.64	20.64	0.1159
25	15	30	396000	1900	DFT-s-OFDM QPSK	80@40	23.01	22.01	0.1589
25	15	30	396000	1900	DFT-s-OFDM QPSK	1@1	22.96	21.96	0.1570
25	15	30	396000	1900	DFT-s-OFDM QPSK	1@158	22.54	21.54	0.1426
25	15	30	396000	1900	DFT-s-OFDM 16 QAM	80@40	22.01	21.01	0.1262
25	15	30	396000	1900	DFT-s-OFDM 16 QAM	1@1	22	21	0.1259
25	15	30	396000	1900	DFT-s-OFDM 16 QAM	1@158	21.8	20.8	0.1202
25	15	30	396000	1900	DFT-s-OFDM 64 QAM	80@40	20.52	19.52	0.0895
25	15	30	396000	1900	DFT-s-OFDM 64 QAM	1@1	20.55	19.55	0.0902
25	15	30	396000	1900	DFT-s-OFDM 64 QAM	1@158	20.28	19.28	0.0847
25	15	30	396000	1900	DFT-s-OFDM 256 QAM	80@40	18.47	17.47	0.0558

25	15	30	396000	1900	DFT-s-OFDM 256 QAM	1@1	18.25	17.25	0.0531
25	15	30	396000	1900	DFT-s-OFDM 256 QAM	1@158	18.34	17.34	0.0542
25	15	30	396000	1900	CP-OFDM QPSK	80@40	21.5	20.5	0.1122
25	15	30	396000	1900	CP-OFDM QPSK	1@1	21.54	20.54	0.1132
25	15	30	396000	1900	CP-OFDM QPSK	1@158	21.3	20.3	0.1072
25	15	40	390000	1870	DFT-s-OFDM QPSK	108@54	23.06	22.06	0.1607
25	15	40	390000	1870	DFT-s-OFDM QPSK	1@1	23.07	22.07	0.1611
25	15	40	390000	1870	DFT-s-OFDM QPSK	1@214	23.15	22.15	0.1641
25	15	40	390000	1870	DFT-s-OFDM 16 QAM	108@54	22.07	21.07	0.1279
25	15	40	390000	1870	DFT-s-OFDM 16 QAM	1@1	22.09	21.09	0.1285
25	15	40	390000	1870	DFT-s-OFDM 16 QAM	1@214	22.22	21.22	0.1324
25	15	40	390000	1870	DFT-s-OFDM 64 QAM	108@54	20.58	19.58	0.0908
25	15	40	390000	1870	DFT-s-OFDM 64 QAM	1@1	20.62	19.62	0.0916
25	15	40	390000	1870	DFT-s-OFDM 64 QAM	1@214	20.67	19.67	0.0927
25	15	40	390000	1870	DFT-s-OFDM 256 QAM	108@54	18.53	17.53	0.0566
25	15	40	390000	1870	DFT-s-OFDM 256 QAM	1@1	18.39	17.39	0.0548
25	15	40	390000	1870	DFT-s-OFDM 256 QAM	1@214	18.52	17.52	0.0565
25	15	40	390000	1870	CP-OFDM QPSK	108@54	21.55	20.55	0.1135
25	15	40	390000	1870	CP-OFDM QPSK	1@1	21.64	20.64	0.1159
25	15	40	390000	1870	CP-OFDM QPSK	1@214	21.61	20.61	0.1151
25	15	40	392500	1882.5	DFT-s-OFDM QPSK	108@54	23.02	22.02	0.1592
25	15	40	392500	1882.5	DFT-s-OFDM QPSK	1@1	22.97	21.97	0.1574
25	15	40	392500	1882.5	DFT-s-OFDM QPSK	1@214	23.06	22.06	0.1607
25	15	40	392500	1882.5	DFT-s-OFDM 16 QAM	108@54	21.99	20.99	0.1256
25	15	40	392500	1882.5	DFT-s-OFDM 16 QAM	1@1	22.03	21.03	0.1268
25	15	40	392500	1882.5	DFT-s-OFDM 16 QAM	1@214	22.15	21.15	0.1303
25	15	40	392500	1882.5	DFT-s-OFDM 64 QAM	108@54	20.53	19.53	0.0897
25	15	40	392500	1882.5	DFT-s-OFDM 64 QAM	1@1	20.58	19.58	0.0908
25	15	40	392500	1882.5	DFT-s-OFDM 64 QAM	1@214	20.66	19.66	0.0925
25	15	40	392500	1882.5	DFT-s-OFDM 256 QAM	108@54	18.47	17.47	0.0558
25	15	40	392500	1882.5	DFT-s-OFDM 256 QAM	1@1	18.3	17.3	0.0537
25	15	40	392500	1882.5	DFT-s-OFDM 256 QAM	1@214	18.52	17.52	0.0565
25	15	40	392500	1882.5	CP-OFDM QPSK	108@54	21.5	20.5	0.1122
25	15	40	392500	1882.5	CP-OFDM QPSK	1@1	21.52	20.52	0.1127

25	15	40	392500	1882.5	CP-OFDM QPSK	1@214	21.67	20.67	0.1167
25	15	40	395000	1895	DFT-s-OFDM QPSK	108@54	23.09	22.09	0.1618
25	15	40	395000	1895	DFT-s-OFDM QPSK	1@1	22.94	21.94	0.1563
25	15	40	395000	1895	DFT-s-OFDM QPSK	1@214	22.95	21.95	0.1567
25	15	40	395000	1895	DFT-s-OFDM 16 QAM	108@54	22.08	21.08	0.1282
25	15	40	395000	1895	DFT-s-OFDM 16 QAM	1@1	22.03	21.03	0.1268
25	15	40	395000	1895	DFT-s-OFDM 16 QAM	1@214	22.13	21.13	0.1297
25	15	40	395000	1895	DFT-s-OFDM 64 QAM	108@54	20.57	19.57	0.0906
25	15	40	395000	1895	DFT-s-OFDM 64 QAM	1@1	20.54	19.54	0.0899
25	15	40	395000	1895	DFT-s-OFDM 64 QAM	1@214	20.58	19.58	0.0908
25	15	40	395000	1895	DFT-s-OFDM 256 QAM	108@54	18.57	17.57	0.0571
25	15	40	395000	1895	DFT-s-OFDM 256 QAM	1@1	18.29	17.29	0.0536
25	15	40	395000	1895	DFT-s-OFDM 256 QAM	1@214	18.45	17.45	0.0556
25	15	40	395000	1895	CP-OFDM QPSK	108@54	21.57	20.57	0.1140
25	15	40	395000	1895	CP-OFDM QPSK	1@1	21.51	20.51	0.1125
25	15	40	395000	1895	CP-OFDM QPSK	1@214	21.62	20.62	0.1153

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
25	15	20	392500	1905.0	DFT-s-OFDM QPSK	100@0	-0.00257	PASS	NV
25	15	20	392500	1905.0	DFT-s-OFDM QPSK	100@0	-0.00274	PASS	LV
25	15	20	392500	1905.0	DFT-s-OFDM QPSK	100@0	-0.00652	PASS	HV
25	15	20	392500	1905.0	DFT-s-OFDM QPSK	100@0	-0.0065	PASS	-30°C
25	15	20	392500	1905.0	DFT-s-OFDM QPSK	100@0	-0.00332	PASS	-20°C
25	15	20	392500	1905.0	DFT-s-OFDM QPSK	100@0	-0.00572	PASS	-10°C
25	15	20	392500	1905.0	DFT-s-OFDM QPSK	100@0	-0.00314	PASS	0°C
25	15	20	392500	1905.0	DFT-s-OFDM QPSK	100@0	-0.00604	PASS	10°C
25	15	20	392500	1905.0	DFT-s-OFDM QPSK	100@0	-0.00171	PASS	20°C
25	15	20	392500	1905.0	DFT-s-OFDM QPSK	100@0	-0.00731	PASS	30°C
25	15	20	392500	1905.0	DFT-s-OFDM QPSK	100@0	-0.00395	PASS	40°C
25	15	20	392500	1905.0	DFT-s-OFDM QPSK	100@0	-0.00321	PASS	50°C

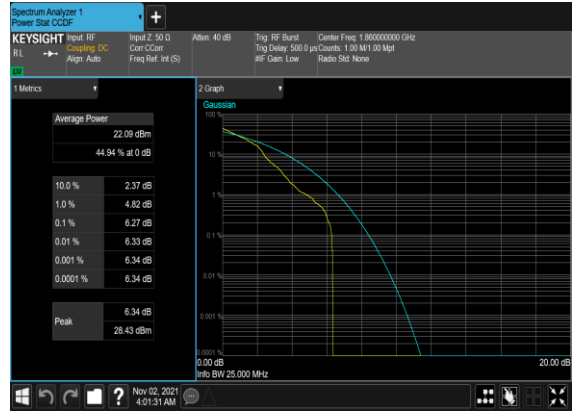
Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
25	15	20	388000	1860.0	DFT-s-OFDM QPSK	100@0	5.76	13	PASS
25	15	20	388000	1860.0	DFT-s-OFDM QPSK	1@0	6.27	13	PASS
25	15	20	392500	1882.5	DFT-s-OFDM QPSK	100@0	5.85	13	PASS
25	15	20	392500	1882.5	DFT-s-OFDM QPSK	1@0	6.77	13	PASS
25	15	20	397000	1905.0	DFT-s-OFDM QPSK	100@0	5.65	13	PASS
25	15	20	397000	1905.0	DFT-s-OFDM QPSK	1@0	6.18	13	PASS

N25(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



N25(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



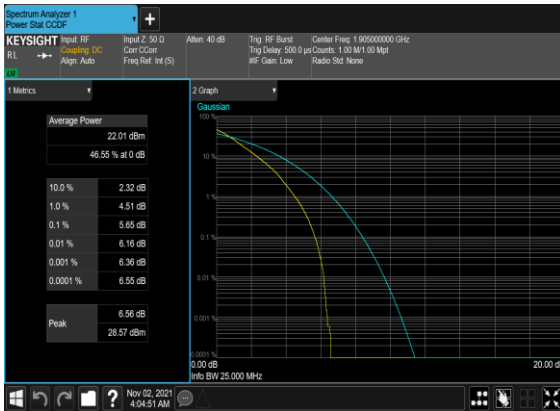
N25(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



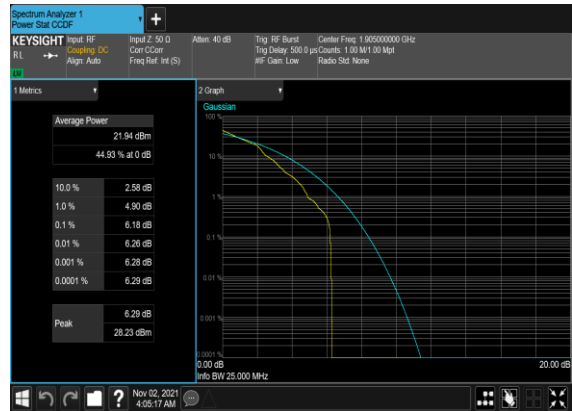
N25(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N25(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



N25(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

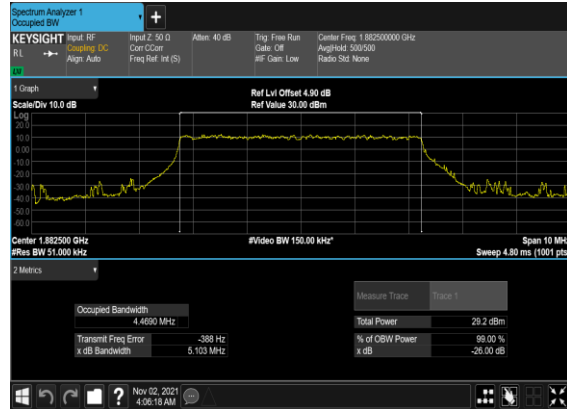


Occupied Bandwidth

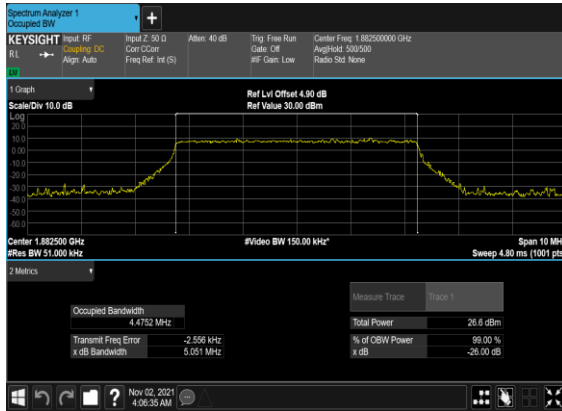
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
25	15	5	392500	1882.5	DFT-s-OFDM QPSK	25@0	4.469	5.103
25	15	5	392500	1882.5	CP-OFDM QPSK	25@0	4.4752	5.051
25	15	5	392500	1882.5	CP-OFDM 16 QAM	25@0	4.4832	5.208
25	15	5	392500	1882.5	CP-OFDM 64 QAM	25@0	4.4689	4.999
25	15	5	392500	1882.5	CP-OFDM 256 QAM	25@0	4.4826	5.075
25	15	10	392500	1882.5	DFT-s-OFDM QPSK	50@0	8.9221	9.694
25	15	10	392500	1882.5	CP-OFDM QPSK	52@0	9.2881	10.13
25	15	10	392500	1882.5	CP-OFDM 16 QAM	52@0	9.2983	10.05
25	15	10	392500	1882.5	CP-OFDM 64 QAM	52@0	9.2722	9.978
25	15	10	392500	1882.5	CP-OFDM 256 QAM	52@0	9.2882	10.01
25	15	15	392500	1882.5	DFT-s-OFDM QPSK	75@0	13.425	14.34
25	15	15	392500	1882.5	CP-OFDM QPSK	79@0	14.1	14.96
25	15	15	392500	1882.5	CP-OFDM 16 QAM	79@0	14.11	15.05
25	15	15	392500	1882.5	CP-OFDM 64 QAM	79@0	14.116	14.98
25	15	15	392500	1882.5	CP-OFDM 256 QAM	79@0	14.088	15.07
25	15	20	392500	1882.5	DFT-s-OFDM QPSK	100@0	17.851	18.94
25	15	20	392500	1882.5	CP-OFDM QPSK	106@0	18.905	19.95
25	15	20	392500	1882.5	CP-OFDM 16 QAM	106@0	18.942	19.87
25	15	20	392500	1882.5	CP-OFDM 64 QAM	106@0	18.914	19.87
25	15	20	392500	1882.5	CP-OFDM 256 QAM	106@0	18.955	19.9
25	15	25	392500	1882.5	DFT-s-OFDM QPSK	128@0	22.868	23.88
25	15	25	392500	1882.5	CP-OFDM QPSK	133@0	23.732	24.78
25	15	25	392500	1882.5	CP-OFDM 16 QAM	133@0	23.75	24.9
25	15	25	392500	1882.5	CP-OFDM 64 QAM	133@0	23.793	24.79
25	15	25	392500	1882.5	CP-OFDM 256 QAM	133@0	23.746	24.78

25	15	30	392500	1882.5	DFT-s-OFDM QPSK	160@0	28.534	29.77
25	15	30	392500	1882.5	CP-OFDM QPSK	160@0	28.552	29.69
25	15	30	392500	1882.5	CP-OFDM 16 QAM	160@0	28.581	29.75
25	15	30	392500	1882.5	CP-OFDM 64 QAM	160@0	28.553	29.71
25	15	30	392500	1882.5	CP-OFDM 256 QAM	160@0	28.563	29.78
25	15	40	392500	1882.5	DFT-s-OFDM QPSK	216@0	38.417	40.05
25	15	40	392500	1882.5	CP-OFDM QPSK	216@0	38.503	39.98
25	15	40	392500	1882.5	CP-OFDM 16 QAM	216@0	38.561	39.98
25	15	40	392500	1882.5	CP-OFDM 64 QAM	216@0	38.56	39.92
25	15	40	392500	1882.5	CP-OFDM 256 QAM	216@0	38.499	39.87

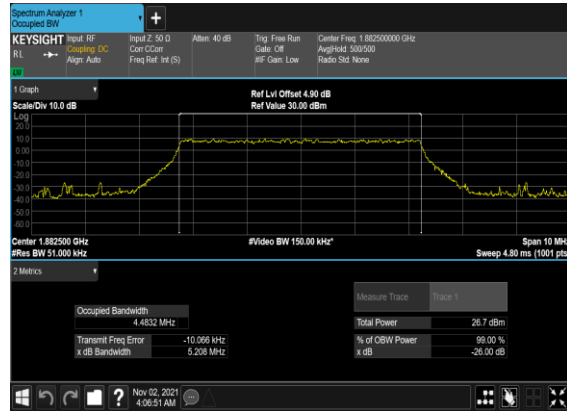
N25(5M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



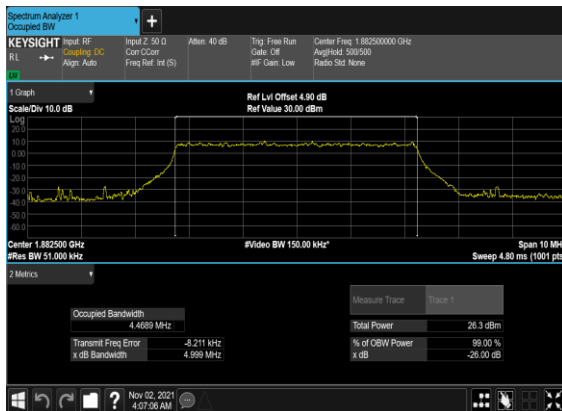
N25(5M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



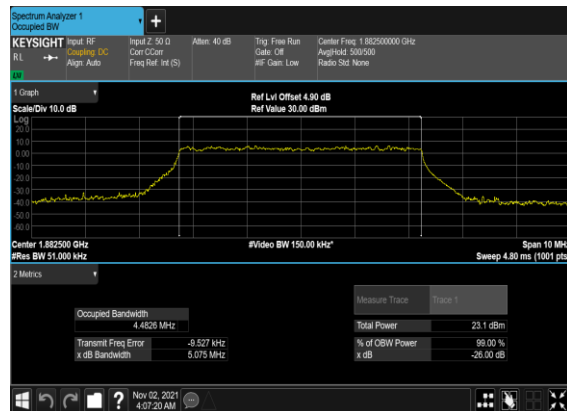
N25(5M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



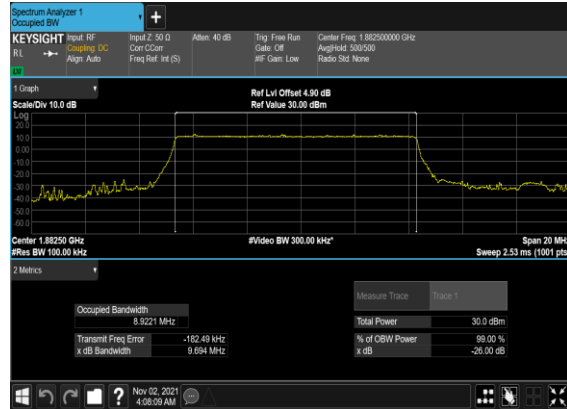
N25(5M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



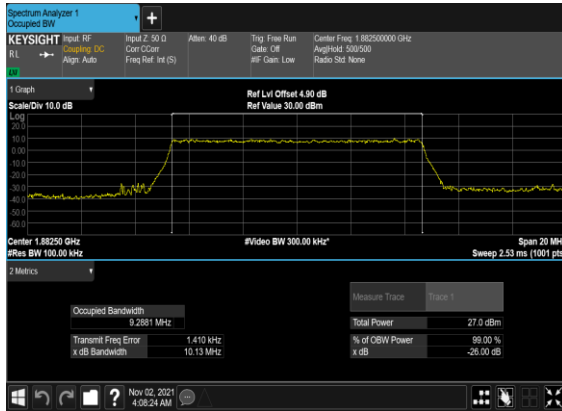
N25(5M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



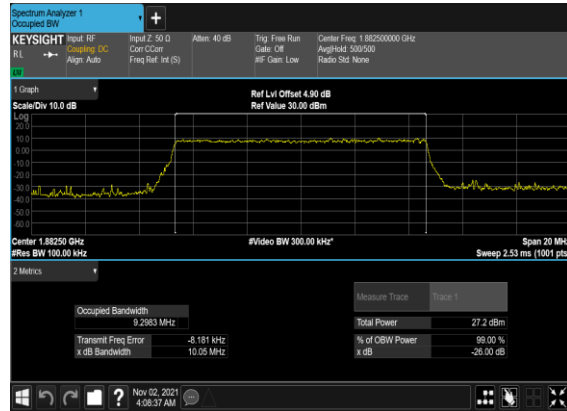
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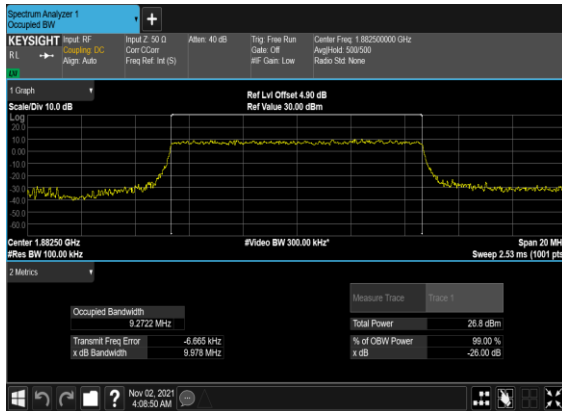
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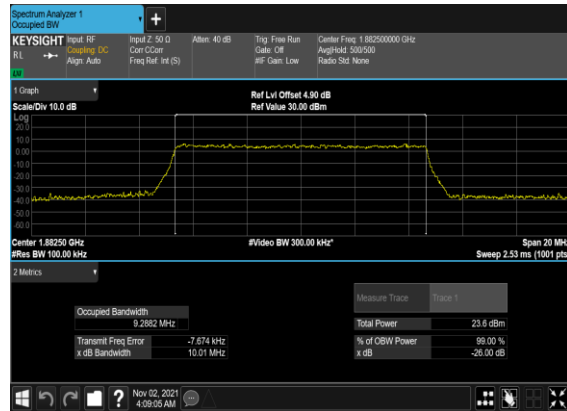
N25(10M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



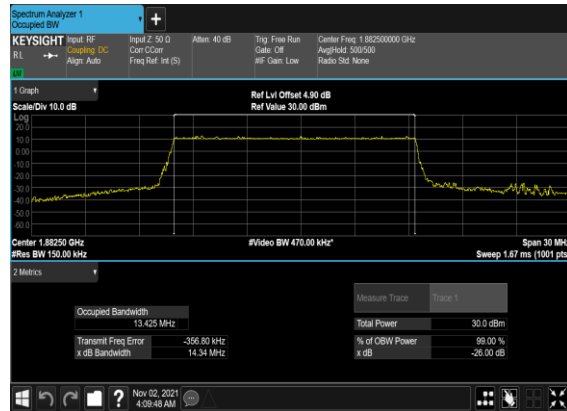
N25(10M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



N25(10M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



N25(15M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



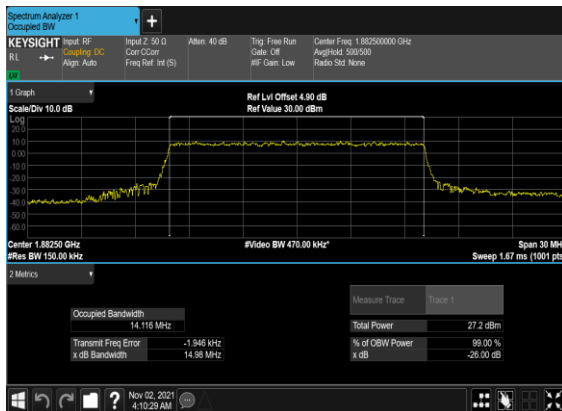
N25(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N25(15M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N25(15M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



N25(15M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

