



FCC RF Test Report

APPLICANT : OnePlus Technology (Shenzhen) Co., Ltd.
EQUIPMENT : Smart Phone
BRAND NAME : ONEPLUS
MODEL NAME : LE2125
FCC ID : 2ABZ2-EF14A
STANDARD : 47 CFR Part 2, 22, 24, 27
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Oct. 27, 2020 and completely tested on Jan. 08, 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.

Reviewed by: Derreck Chen / Supervisor

Approved by: Eric Shih / Manager



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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG002703-06G	Rev. 01	Initial issue of report	Feb. 07, 2021



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)	ERP < 7 Watt		
	§24.232(c)	Equivalent Isotropic Radiated Power (5G NR n2, n25)	EIRP < 2Watt		
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (5G NR n66)	EIRP < 1Watt		
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(h)	Conducted Band Edge Measurement (5G NR n5) (5G NR n2, n25) (5G NR n66)	< 43+10log ₁₀ (P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Conducted Spurious Emission (5G NR n5) (5G NR n2, n25) (5G NR n66)	< 43+10log ₁₀ (P[Watts])	PASS	-
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	-
	§24.235 §27.54		Within Authorized Band		
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(h)	Radiated Spurious Emission (5G NR n5) (5G NR n2, n25) (5G NR n66)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 38.58 dB at 6842.000 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

OnePlus Technology (Shenzhen) Co., Ltd.

18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen

1.2 Manufacturer

OnePlus Technology (Shenzhen) Co., Ltd.

18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Smart Phone
Brand Name	ONEPLUS
Model Name	LE2125
FCC ID	2ABZ2-EF14A
EUT supports Radios application	CDMA/GSM/WCDMA/LTE/5G NR WLAN 2.4GHz 802.11b/g/n/ac HT20/HT40/VHT20/VHT40 WLAN 2.4GHz 802.11ax HE20/HE40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/VHT160 WLAN 5GHz 802.11ax HE20/HE40/HE80/HE160 Bluetooth BR / EDR / LE / ANT+ GNSS/NFC/WPT
IMEI Code	Conducted: 990016750029678 Radiation: 990016750030098 for Band 5A-n2A/12A-n25A/2A-n66A/n2/n66 990016750028241 for Band 2A-n5A/n25
HW Version	22
SW Version	Oxygen OS 11.2.LE15AA
EUT Stage	Production Unit

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description
2. This is a variant report, the change note could be referred to the product equality declaration which is exhibit separately. The change has no influence on the test results, all the test results are leveraged from original report FG002703-02G.

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 n25: 1850 MHz ~ 1915 MHz 5G NR n66: 1710 MHz ~ 1780 MHz
Rx Frequency	5G NR n2: 1930 MHz ~ 1990 MHz 5G NR n5: 869 MHz ~ 894 MHz 5G NR n25: 1930 MHz ~ 1995 MHz 5G NR n66: 2110 MHz~ 2200 MHz
Bandwidth	n2, n5, n25, n66: 5MHz / 10MHz / 15MHz / 20MHz
SCS	n2, n5, n25, n66: 15KHz
Antenna Gain	Top Antenna: 5G NR n2: -2.5 dBi 5G NR n5: -4.5 dBi 5G NR n25: -2.5 dBi 5G NR n66: -2.5 dBi Boottom Antenna: 5G NR n2: -2.0 dBi 5G NR n5: -4.0 dBi 5G NR n25: -2.0 dBi 5G NR n66: -2.0 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

1.5 Modification of EUT

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

1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

5G NR n2 (EN DC_5A-n2A)		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
5	1852.5 ~ 1907.5	4M46G7D	0.1546	4M49W7D	0.1249
10	1855.0 ~ 1905.0	9M27G7D	0.1532	9M29W7D	0.1249
15	1857.5 ~ 1902.5	14M1G7D	0.1580	14M1W7D	0.1284
20	1860.0 ~ 1900.0	18M9G7D	0.1642	18M9W7D	0.1270
Frequency Tolerance (ppm)		0.0021			

5G NR n5 (EN DC_2A-n5A)		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)
5	826.5 ~ 846.5	4M47G7D	0.0630	4M49W7D	0.0480
10	829.0 ~ 844.0	9M27G7D	0.0609	9M31W7D	0.0478
15	831.5 ~ 841.5	14M1G7D	0.0633	14M1W7D	0.0478
20	834.0 ~ 839.0	18M9G7D	0.0649	19M0W7D	0.0479
Frequency Tolerance (ppm)		0.0019			

5G NR n25 (EN DC_12A-n25A)		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
5	1852.5 ~ 1912.5	4M48G7D	0.1669	4M48W7D	0.1256
10	1855.0 ~ 1910.0	9M25G7D	0.1689	9M31W7D	0.1259
15	1857.5 ~ 1907.5	14M1G7D	0.1692	14M2W7D	0.1248
20	1860.0 ~ 1905.0	18M9G7D	0.1697	19M0W7D	0.1295
Frequency Tolerance (ppm)		0.0029			



5G NR n66 (EN DC_2A-n66A)		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
5	1712.5 ~ 1777.5	4M47G7D	0.1639	4M50W7D	0.1208
10	1715.0 ~ 1775.0	9M25G7D	0.1662	9M27W7D	0.1192
15	1717.5 ~ 1772.5	14M1G7D	0.1662	14M2W7D	0.1168
20	1720.0 ~ 1770.0	19M0G7D	0.1749	19M0W7D	0.1217
Frequency Tolerance (ppm)		0.0025			

5G NR n2		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
5	1852.5 ~ 1907.5	4M50G7D	0.1667	4M48W7D	0.1368
10	1855.0 ~ 1905.0	9M27G7D	0.1675	9M29W7D	0.1361
15	1857.5 ~ 1902.5	14M1G7D	0.1675	14M2W7D	0.1312
20	1860.0 ~ 1900.0	19M0G7D	0.1679	18M9W7D	0.1259
Frequency Tolerance (ppm)		0.0025			

5G NR n25		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
5	1852.5 ~ 1912.5	4M48G7D	0.1679	4M48W7D	0.1189
10	1855.0 ~ 1910.0	9M29G7D	0.1694	9M29W7D	0.1183
15	1857.5 ~ 1907.5	13M5G7D	0.1706	13M5W7D	0.1161
20	1860.0 ~ 1905.0	18M9G7D	0.1710	18M9W7D	0.1288
Frequency Tolerance (ppm)		0.0026			

5G NR n66		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
5	1712.5 ~ 1777.5	4M47G7D	0.1718	4M52W7D	0.1259
10	1715.0 ~ 1775.0	9M27G7D	0.1746	9M29W7D	0.1268
15	1717.5 ~ 1772.5	14M1G7D	0.1726	14M2W7D	0.1262
20	1720.0 ~ 1770.0	18M9G7D	0.1758	18M9W7D	0.1285
Frequency Tolerance (ppm)		0.0029			

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.
	03CH01/03-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH01-SZ	AUDIX	E3	6.2009-8-24
2.	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(H), 24(E), 27(L)
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

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

2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

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

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

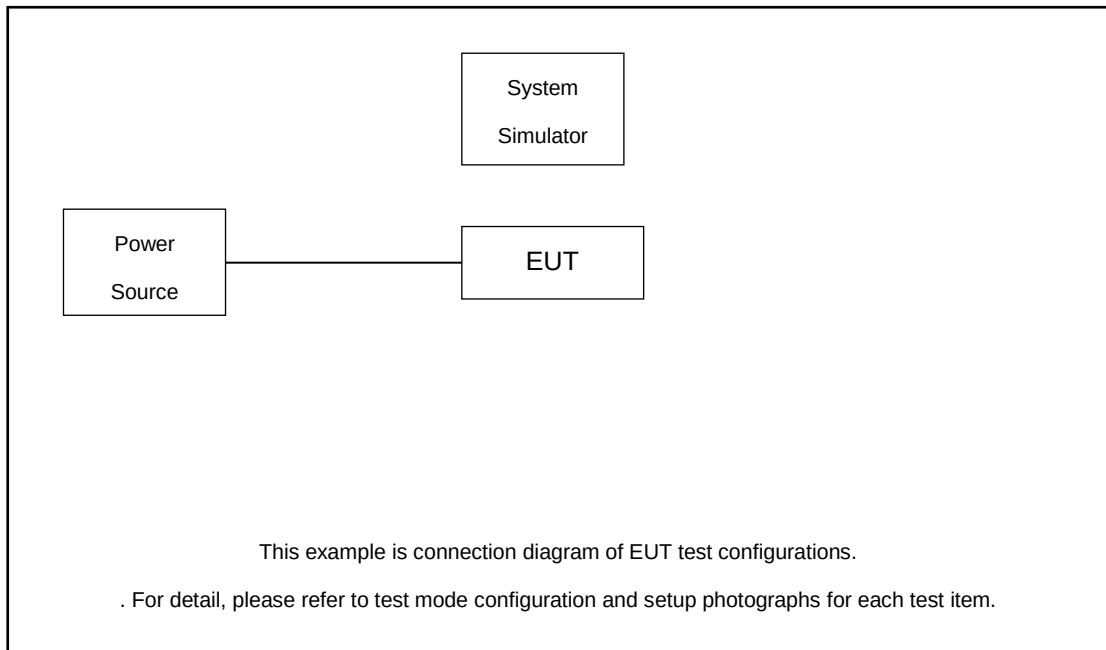
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			

Test Items	5G NR	Bandwidth (MHz)						Modulation					RB #			Test Channel		
		5	10	15	20	60	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	n2	v	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	v
	n25	v	v	v	v	-	-	v	v	v	v	v	v		v	v	v	v
	n66	v	v	v	v	-	-	v	v	v	v	v	v		v	v	v	v
Peak-to- Average Ratio	n2				v	-	-	v	v				v		v	v	v	v
	n5				v	-	-	v	v				v		v	v	v	v
	n25				v	-	-	v	v				v		v	v	v	v
	n66				v	-	-	v	v				v		v	v	v	v
26dB Bandwidth	n2	v	v	v	v	-	-		v	v	v	v			v		v	
	n5	v	v	v	v	-	-		v	v	v	v			v		v	
	n25	v	v	v	v	-	-		v	v	v	v			v		v	
	n66	v	v	v	v	-	-		v	v	v	v			v		v	
99% Bandwidth	n2	v	v	v	v	-	-		v	v	v	v			v		v	
	n5	v	v	v	v	-	-		v	v	v	v			v		v	
	n25	v	v	v	v	-	-		v	v	v	v			v		v	
	n66	v	v	v	v	-	-		v	v	v	v			v		v	



Test Items	Band	Bandwidth (MHz)						Modulation					RB #			Test Channel		
		5	10	15	20	60	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Conducted Band Edge	n2	v	v		v	-	-	v	v				v		v	v		v
	n5	v	v		v	-	-	v	v				v		v	v		v
	n25	v	v		v	-	-	v	v				v		v	v		v
	n66	v	v		v	-	-	v	v				v		v	v		v
Conducted Spurious Emission	n2	v	v		v	-	-	v	v				v			v	v	v
	n5	v	v		v	-	-	v	v				v			v	v	v
	n25	v	v		v	-	-	v	v				v			v	v	v
	n66	v	v		v	-	-	v	v				v			v	v	v
Frequency Stability	n2				v	-	-	v							v		v	
	n5				v	-	-	v							v		v	
	n25				v	-	-	v							v		v	
	n66				v	-	-	v							v		v	
E.R.P / E.I.R.P	n2	v	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	v
	n25	v	v	v	v	-	-	v	v	v	v	v	v		v	v	v	v
	n66	v	v	v	v	-	-	v	v	v	v	v	v		v	v	v	v
Radiated Spurious Emission	n2	Worst Case														v	v	v
	n5	Worst Case														v	v	v
	n25	Worst Case														v	v	v
	n66	Worst Case														v	v	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. The maximum ERP/EIRP is calculated from max output power and max antenna gain, only the maximum ERP/EIRP is shown in the report. 5. 5G NR supports SA and NSA mode (refer to the Operation Description). For NSA mode, according to engineering evaluation, only the worst EN-DC combination mode show in the report. 6. 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.	Base Station	Keysight	UXM E7515B	Fcc DoC	N/A	Unshielded, 1.5 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.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 4.3 dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 4.3 \text{ (dB)} \end{aligned}$$

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	372000	376000	380000
	Frequency	1860	1880	1900
15	Channel	371500	376000	380500
	Frequency	1857.5	1880	1902.5
10	Channel	371000	376000	381000
	Frequency	1855	1880	1905
5	Channel	370500	376000	381500
	Frequency	1852.5	1880	1907.5

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

5G NR n25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	372000	376500	381000
	Frequency	1860	1882.5	1905
15	Channel	371500	376500	381500
	Frequency	1857.5	1882.5	1907.5
10	Channel	371000	376500	382000
	Frequency	1855	1882.5	1910
5	Channel	370500	376500	382500
	Frequency	1852.5	1882.5	1912.5



5G NR n66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	344000	349000	354000
	Frequency	1720	1745	1770
15	Channel	343500	349000	354500
	Frequency	1717.5	1745	1772.5
10	Channel	343000	349000	355000
	Frequency	1715	1745	1775
5	Channel	342500	349000	355500
	Frequency	1712.5	1745	1777.5

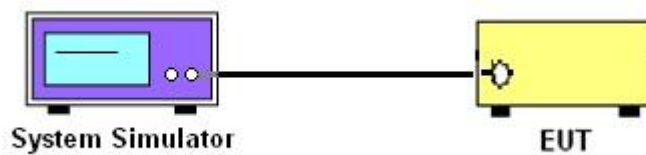
3 Conducted Test Items

3.1 Measuring Instruments

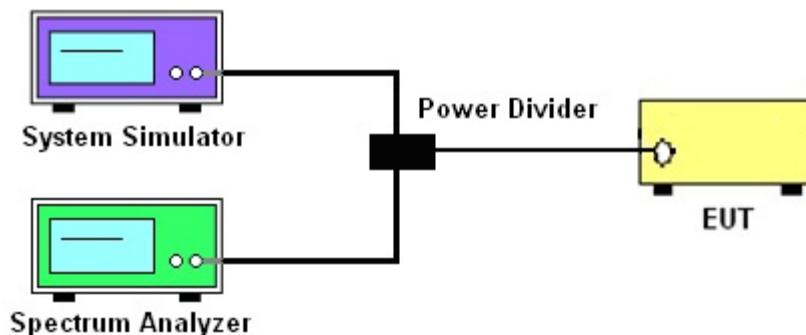
See list of measuring instruments of this test report.

3.2 Test Setup

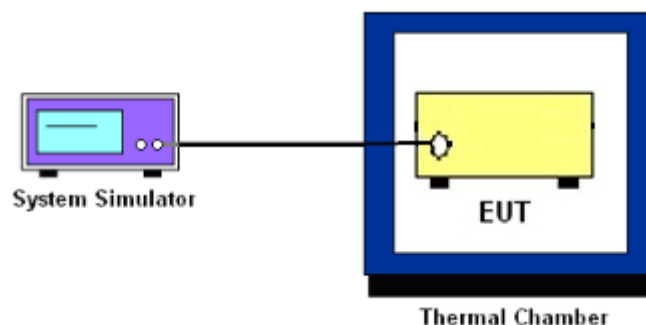
3.2.1 Conducted Output Power



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.

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

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n66.

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 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz 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.

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

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)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13$ dBm.

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.

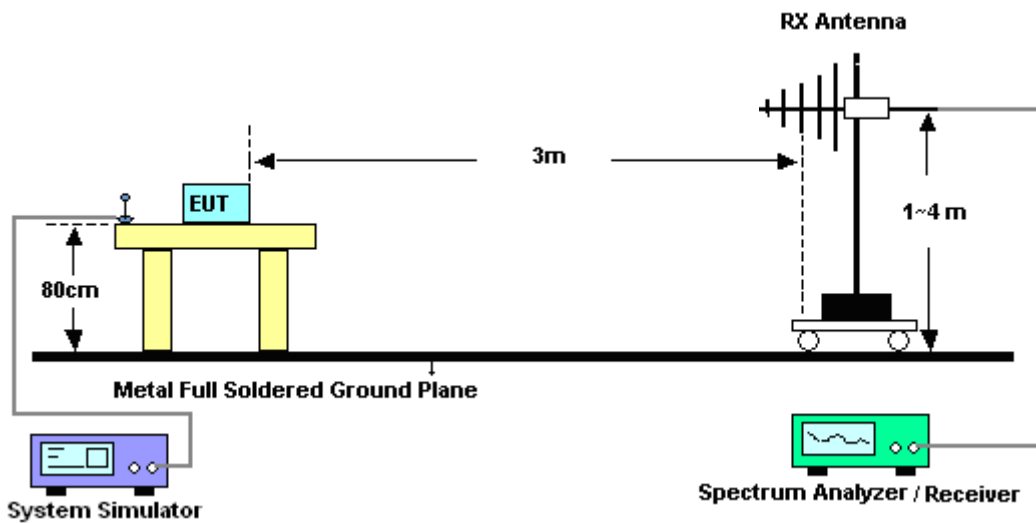
4 Radiated Test Items

4.1 Measuring Instruments

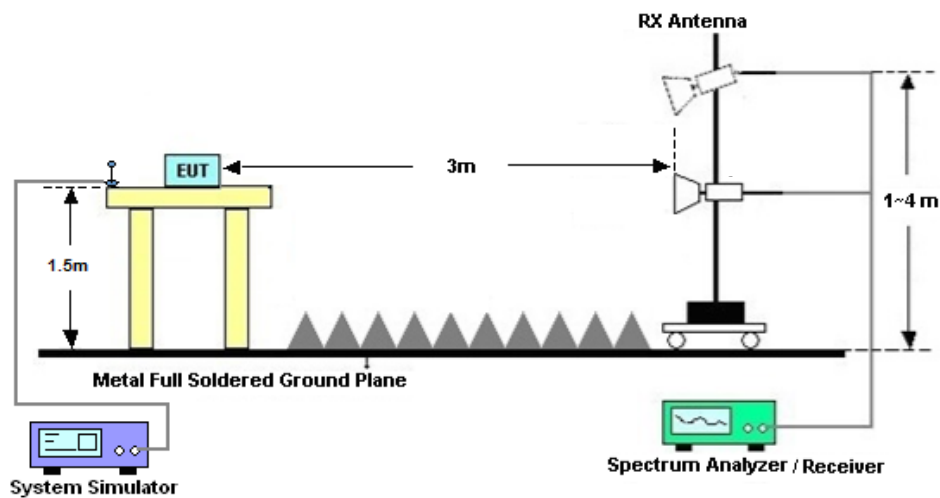
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm}.$$



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. 17, 2020	Dec. 02, 2020~Jan. 08, 2021	Apr. 16, 2021	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 22, 2020	Dec. 02, 2020~Jan. 08, 2021	Jul. 21, 2021	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Jul. 21, 2020	Dec. 27, 2020	Jul. 20, 2021	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270104	0.5GHz~26.5GHz	Dec. 27, 2020	Dec. 27, 2020	Dec. 26, 2021	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Jul. 15, 2020	Dec. 27, 2020	Jul. 14, 2021	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 25, 2020	Dec. 27, 2020	Jul. 24, 2021	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz-40GHz	Apr. 23, 2020	Dec. 27, 2020	Apr. 22, 2021	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 17, 2020	Dec. 27, 2020	Apr. 16, 2021	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 17, 2020	Dec. 27, 2020	Oct. 16, 2021	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 21, 2020	Dec. 27, 2020	Jul. 20, 2021	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Dec. 27, 2020	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Dec. 27, 2020	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Dec. 27, 2020	NCR	Radiation (03CH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 17, 2020	Dec. 26, 2020	Apr. 16, 2021	Radiation (03CH03-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 17, 2020	Dec. 26, 2020	Apr. 16, 2021	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Jun. 22, 2020	Dec. 26, 2020	Jun. 21, 2021	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 30, 2020	Dec. 26, 2020	Apr. 29, 2021	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102210	0.01Hz ~3000MHz	Oct. 17, 2019	Dec. 26, 2020	Oct. 16, 2021	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 21, 2020	Dec. 26, 2020	Jul. 20, 2021	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz-40GHz	Apr. 23, 2020	Dec. 26, 2020	Apr. 22, 2021	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 25, 2020	Dec. 26, 2020	Dec. 24, 2021	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Dec. 26, 2020	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Dec. 26, 2020	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Dec. 26, 2020	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.

For 03CH01-SZ:

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.48dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.53dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.02dB
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For 03CH03-SZ:

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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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power and EIRP)

5G NR EN_DC_n2A-5A NSA mode:

EN-DC n2 (ANT3)+5A (ANT1)Combination 20MHz+10MHz(LTE)(GT - LC = -2 dB)									
Channel	Mode	NR		LTE		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.02	0.2526	22.02	0.1594
		1	104	1	49	24.00	0.2514	22.00	0.1586
		50	25	50	0	24.07	0.2555	22.07	0.1612
	QPSK DFT-s-OFDM	1	1	1	0	24.07	0.2555	22.07	0.1612
		1	104	1	49	24.04	0.2537	22.04	0.1601
		50	25	50	0	24.03	0.2532	22.03	0.1597
	16QAM DFT-s-OFDM	1	1	1	0	22.82	0.1913	20.82	0.1207
		1	104	1	49	22.75	0.1883	20.75	0.1188
		50	25	50	0	22.70	0.1861	20.70	0.1174
	64QAM DFT-s-OFDM	1	1	1	0	20.80	0.1202	18.80	0.0758
		1	104	1	49	20.77	0.1193	18.77	0.0753
		50	25	50	0	20.51	0.1125	18.51	0.0710
	256QAM DFT-s-OFDM	1	1	1	0	19.17	0.0826	17.17	0.0521
		1	104	1	49	19.23	0.0838	17.23	0.0528
		50	25	50	0	19.05	0.0804	17.05	0.0507
Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.09	0.2567	22.09	0.1620
		1	104	1	49	24.09	0.2567	22.09	0.1619
		50	25	50	0	24.12	0.2584	22.12	0.1631
	QPSK DFT-s-OFDM	1	1	1	0	24.10	0.2573	22.10	0.1623
		1	104	1	49	24.03	0.2531	22.03	0.1597
		50	25	50	0	24.15	0.2602	22.15	0.1642
	16QAM DFT-s-OFDM	1	1	1	0	22.46	0.1762	20.46	0.1111
		1	104	1	49	22.49	0.1774	20.49	0.1119
		50	25	50	0	22.62	0.1828	20.62	0.1153
	64QAM DFT-s-OFDM	1	1	1	0	20.78	0.1196	18.78	0.0755
		1	104	1	49	21.15	0.1302	19.15	0.0821
		50	25	50	0	21.71	0.1483	19.71	0.0936
	256QAM DFT-s-OFDM	1	1	1	0	19.02	0.0798	17.02	0.0504
		1	104	1	49	19.14	0.0821	17.14	0.0518
		50	25	50	0	19.07	0.0808	17.07	0.0510
QPSK CP-OFDM	1	1	1	0	22.11	0.1626	20.11	0.1026	
	1	104	1	49	22.04	0.1600	20.04	0.1009	
	53	26	50	0	22.17	0.1648	20.17	0.1040	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.80	0.2401	21.80	0.1515
		1	104	1	49	24.05	0.2543	22.05	0.1605
		50	25	50	0	24.10	0.2572	22.10	0.1623
	QPSK DFT-s-OFDM	1	1	1	0	23.53	0.2252	21.53	0.1421
		1	104	1	49	23.97	0.2497	21.97	0.1576
		50	25	50	0	24.08	0.2556	22.08	0.1613
	16QAM DFT-s-OFDM	1	1	1	0	22.93	0.1962	20.93	0.1238
		1	104	1	49	23.04	0.2012	21.04	0.1270
		50	25	50	0	22.77	0.1891	20.77	0.1193
	64QAM DFT-s-OFDM	1	1	1	0	20.84	0.1213	18.84	0.0765
		1	104	1	49	20.71	0.1177	18.71	0.0743
		50	25	50	0	20.77	0.1194	18.77	0.0753
	256QAM DFT-s-OFDM	1	1	1	0	19.04	0.0802	17.04	0.0506
		1	104	1	49	19.19	0.0830	17.19	0.0524
		50	25	50	0	18.99	0.0793	16.99	0.0500

EN-DC n2 (ANT3)+5A (ANT1)Combination 15MHz+10MHz(LTE)(GT - LC = -2 dB)										
Channel	Mode	NR		LTE		Conducted		EIRP		
		RB		RB						
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)	
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.87	0.2440	21.87	0.1539	
		1	77	1	49	23.78	0.2390	21.78	0.1508	
		36	18	50	0	23.88	0.2445	21.88	0.1543	
	QPSK DFT-s-OFDM	1	1	1	0	23.68	0.2336	21.68	0.1474	
		1	77	1	49	23.86	0.2434	21.86	0.1536	
		36	18	50	0	23.84	0.2423	21.84	0.1529	
	16QAM DFT-s-OFDM	1	1	1	0	22.91	0.1953	20.91	0.1232	
		1	77	1	49	22.65	0.1840	20.65	0.1161	
		36	18	50	0	22.81	0.1909	20.81	0.1204	
	64QAM DFT-s-OFDM	1	1	1	0	20.77	0.1193	18.77	0.0753	
		1	77	1	49	20.89	0.1227	18.89	0.0774	
		36	18	50	0	20.89	0.1227	18.89	0.0774	
	256QAM DFT-s-OFDM	1	1	1	0	19.23	0.0838	17.23	0.0529	
		1	77	1	49	19.11	0.0815	17.11	0.0514	
		36	18	50	0	18.97	0.0789	16.97	0.0498	
	Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.79	0.2395	21.79	0.1511
			1	77	1	49	23.99	0.2504	21.99	0.1580
			36	18	50	0	23.92	0.2464	21.92	0.1555
QPSK DFT-s-OFDM		1	1	1	0	23.85	0.2425	21.85	0.1530	
		1	77	1	49	23.95	0.2481	21.95	0.1565	
		36	18	50	0	23.95	0.2481	21.95	0.1565	
16QAM DFT-s-OFDM		1	1	1	0	22.61	0.1823	20.61	0.1150	
		1	77	1	49	22.48	0.1770	20.48	0.1117	
		36	18	50	0	22.59	0.1815	20.59	0.1145	
64QAM DFT-s-OFDM		1	1	1	0	20.98	0.1252	18.98	0.0790	
		1	77	1	49	21.13	0.1296	19.13	0.0818	
		36	18	50	0	21.66	0.1466	19.66	0.0925	
256QAM DFT-s-OFDM		1	1	1	0	19.01	0.0797	17.01	0.0503	
		1	77	1	49	19.00	0.0795	17.00	0.0501	
		36	18	50	0	19.03	0.0800	17.03	0.0505	
QPSK CP-OFDM		1	1	1	0	22.21	0.1663	20.21	0.1050	
		1	77	1	49	21.97	0.1575	19.97	0.0993	
		39	19	50	0	22.07	0.1611	20.07	0.1016	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.89	0.2451	21.89	0.1546	
		1	77	1	49	23.86	0.2434	21.86	0.1536	
		36	18	50	0	23.84	0.2423	21.84	0.1529	
	QPSK DFT-s-OFDM	1	1	1	0	23.77	0.2384	21.77	0.1504	
		1	77	1	49	23.74	0.2368	21.74	0.1494	
		36	18	50	0	23.95	0.2485	21.95	0.1568	
	16QAM DFT-s-OFDM	1	1	1	0	23.09	0.2035	21.09	0.1284	
		1	77	1	49	22.64	0.1836	20.64	0.1158	
		36	18	50	0	22.58	0.1811	20.58	0.1143	
	64QAM DFT-s-OFDM	1	1	1	0	20.78	0.1196	18.78	0.0755	
		1	77	1	49	20.74	0.1185	18.74	0.0748	
		36	18	50	0	20.65	0.1161	18.65	0.0733	
	256QAM DFT-s-OFDM	1	1	1	0	19.05	0.0804	17.05	0.0507	
		1	77	1	49	19.03	0.0800	17.03	0.0505	
		36	18	50	0	19.05	0.0804	17.05	0.0507	

EN-DC n2 (ANT3)+5A (ANT1)Combination 10MHz+10MHz(LTE)(GT - LC = -2 dB)										
Channel	Mode	NR		LTE		Conducted		EIRP		
		RB		RB						
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)	
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.77	0.2384	21.77	0.1504	
		1	50	1	49	23.79	0.2395	21.79	0.1511	
		25	12	50	0	23.73	0.2362	21.73	0.1491	
	QPSK DFT-s-OFDM	1	1	1	0	23.80	0.2401	21.80	0.1515	
		1	50	1	49	23.81	0.2406	21.81	0.1518	
		25	12	50	0	23.77	0.2384	21.77	0.1504	
	16QAM DFT-s-OFDM	1	1	1	0	22.84	0.1922	20.84	0.1213	
		1	50	1	49	22.78	0.1896	20.78	0.1196	
		25	12	50	0	22.73	0.1874	20.73	0.1183	
	64QAM DFT-s-OFDM	1	1	1	0	20.80	0.1202	18.80	0.0758	
		1	50	1	49	20.99	0.1255	18.99	0.0792	
		25	12	50	0	20.49	0.1119	18.49	0.0706	
	256QAM DFT-s-OFDM	1	1	1	0	19.29	0.0849	17.29	0.0536	
		1	50	1	49	18.98	0.0791	16.98	0.0499	
		25	12	50	0	19.06	0.0806	17.06	0.0508	
	Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.80	0.2401	21.80	0.1515
			1	50	1	49	23.85	0.2428	21.85	0.1532
			25	12	50	0	23.84	0.2423	21.84	0.1529
QPSK DFT-s-OFDM		1	1	1	0	23.77	0.2384	21.77	0.1504	
		1	50	1	49	23.82	0.2412	21.82	0.1522	
		25	12	50	0	23.75	0.2373	21.75	0.1497	
16QAM DFT-s-OFDM		1	1	1	0	22.74	0.1878	20.74	0.1185	
		1	50	1	49	22.68	0.1853	20.68	0.1169	
		25	12	50	0	22.56	0.1802	20.56	0.1137	
64QAM DFT-s-OFDM		1	1	1	0	20.98	0.1252	18.98	0.0790	
		1	50	1	49	21.26	0.1338	19.26	0.0844	
		25	12	50	0	21.70	0.1480	19.70	0.0934	
256QAM DFT-s-OFDM		1	1	1	0	19.00	0.0795	17.00	0.0502	
		1	50	1	49	18.96	0.0787	16.96	0.0497	
		25	12	50	0	19.07	0.0808	17.07	0.0510	
QPSK CP-OFDM		1	1	1	0	22.28	0.1691	20.28	0.1067	
		1	50	1	49	22.01	0.1589	20.01	0.1003	
		26	13	50	0	22.07	0.1611	20.07	0.1016	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.78	0.2390	21.78	0.1508	
		1	50	1	49	23.68	0.2336	21.68	0.1474	
		25	12	50	0	23.74	0.2368	21.74	0.1494	
	QPSK DFT-s-OFDM	1	1	1	0	23.76	0.2379	21.76	0.1501	
		1	50	1	49	23.84	0.2423	21.84	0.1529	
		25	12	50	0	23.78	0.2390	21.78	0.1508	
	16QAM DFT-s-OFDM	1	1	1	0	22.97	0.1980	20.97	0.1249	
		1	50	1	49	22.82	0.1913	20.82	0.1207	
		25	12	50	0	22.68	0.1853	20.68	0.1169	
	64QAM DFT-s-OFDM	1	1	1	0	21.10	0.1287	19.10	0.0812	
		1	50	1	49	20.99	0.1255	18.99	0.0792	
		25	12	50	0	20.60	0.1148	18.60	0.0724	
	256QAM DFT-s-OFDM	1	1	1	0	19.02	0.0799	17.02	0.0504	
		1	50	1	49	19.18	0.0828	17.18	0.0522	
		25	12	50	0	19.03	0.0800	17.03	0.0505	

EN-DC n2 (ANT3)+5A (ANT1)Combination 5MHz+10MHz(LTE)(GT - LC = -2 dB)									
Channel	Mode	NR		LTE		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.69	0.2341	21.69	0.1477
		1	23	1	49	23.81	0.2406	21.81	0.1518
		12	6	50	0	23.75	0.2373	21.75	0.1497
	QPSK DFT-s-OFDM	1	1	1	0	23.76	0.2379	21.76	0.1501
		1	23	1	49	23.83	0.2417	21.83	0.1525
		12	6	50	0	23.82	0.2412	21.82	0.1522
	16QAM DFT-s-OFDM	1	1	1	0	22.97	0.1980	20.97	0.1249
		1	23	1	49	22.76	0.1887	20.76	0.1191
		12	6	50	0	22.79	0.1900	20.79	0.1199
	64QAM DFT-s-OFDM	1	1	1	0	21.16	0.1305	19.16	0.0823
		1	23	1	49	20.86	0.1218	18.86	0.0769
		12	6	50	0	20.57	0.1140	18.57	0.0719
	256QAM DFT-s-OFDM	1	1	1	0	19.12	0.0817	17.12	0.0515
		1	23	1	49	19.11	0.0815	17.11	0.0514
		12	6	50	0	19.00	0.0795	17.00	0.0502
Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.79	0.2395	21.79	0.1511
		1	23	1	49	23.86	0.2434	21.86	0.1536
		12	6	50	0	23.88	0.2445	21.88	0.1543
	QPSK DFT-s-OFDM	1	1	1	0	23.87	0.2440	21.87	0.1539
		1	23	1	49	23.89	0.2451	21.89	0.1546
		12	6	50	0	23.89	0.2451	21.89	0.1546
	16QAM DFT-s-OFDM	1	1	1	0	22.74	0.1878	20.74	0.1185
		1	23	1	49	22.65	0.1840	20.65	0.1161
		12	6	50	0	22.57	0.1807	20.57	0.1140
	64QAM DFT-s-OFDM	1	1	1	0	20.75	0.1188	18.75	0.0750
		1	23	1	49	21.16	0.1305	19.16	0.0823
		12	6	50	0	21.21	0.1320	19.21	0.0833
	256QAM DFT-s-OFDM	1	1	1	0	19.07	0.0808	17.07	0.0510
		1	23	1	49	19.14	0.0821	17.14	0.0518
		12	6	50	0	19.03	0.0800	17.03	0.0505
QPSK CP-OFDM	1	1	1	0	22.31	0.1702	20.31	0.1074	
	1	23	1	49	22.00	0.1585	20.00	0.1000	
	13	6	50	0	22.10	0.1622	20.10	0.1023	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.82	0.2412	21.82	0.1522
		1	23	1	49	23.87	0.2440	21.87	0.1539
		12	6	50	0	23.84	0.2423	21.84	0.1529
	QPSK DFT-s-OFDM	1	1	1	0	23.80	0.2401	21.80	0.1515
		1	23	1	49	23.84	0.2423	21.84	0.1529
		12	6	50	0	23.89	0.2451	21.89	0.1546
	16QAM DFT-s-OFDM	1	1	1	0	22.82	0.1913	20.82	0.1207
		1	23	1	49	22.84	0.1922	20.84	0.1213
		12	6	50	0	22.82	0.1913	20.82	0.1207
	64QAM DFT-s-OFDM	1	1	1	0	21.16	0.1305	19.16	0.0823
		1	23	1	49	20.71	0.1177	18.71	0.0743
		12	6	50	0	20.48	0.1117	18.48	0.0705
	256QAM DFT-s-OFDM	1	1	1	0	19.10	0.0813	17.10	0.0513
		1	23	1	49	18.97	0.0789	16.97	0.0498
		12	6	50	0	19.05	0.0804	17.05	0.0507

5G NR EN_DC_n5A-2A NSA mode:

EN-DC n5 (ANT1)+2A (ANT3)Combination 20MHz+20MHz(LTE)(GT - LC = -4 dB)									
Channel	Mode	NR		LTE		Conducted		ERP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	ERP(dBm)	ERP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.18	0.2615	18.03	0.0635
		1	104	1	99	23.99	0.2504	17.84	0.0608
		50	25	100	0	24.17	0.2610	18.02	0.0633
	QPSK DFT-s-OFDM	1	1	1	0	24.16	0.2604	18.01	0.0632
		1	104	1	99	24.01	0.2515	17.86	0.0610
		50	25	100	0	24.18	0.2615	18.03	0.0635
	16QAM DFT-s-OFDM	1	1	1	0	22.40	0.1739	16.25	0.0422
		1	104	1	99	22.45	0.1759	16.30	0.0427
		50	25	100	0	22.58	0.1812	16.43	0.0440
	64QAM DFT-s-OFDM	1	1	1	0	20.81	0.1206	14.66	0.0293
		1	104	1	99	21.06	0.1277	14.91	0.0310
		50	25	100	0	21.18	0.1312	15.03	0.0318
	256QAM DFT-s-OFDM	1	1	1	0	19.49	0.0888	13.34	0.0216
		1	104	1	99	19.04	0.0802	12.89	0.0195
		50	25	100	0	19.16	0.0824	13.01	0.0200
Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.27	0.2676	18.12	0.0649
		1	104	1	99	23.95	0.2481	17.80	0.0602
		50	25	100	0	24.11	0.2574	17.96	0.0625
	QPSK DFT-s-OFDM	1	1	1	0	24.24	0.2652	18.09	0.0643
		1	104	1	99	23.89	0.2447	17.74	0.0594
		50	25	100	0	24.20	0.2627	18.05	0.0638
	16QAM DFT-s-OFDM	1	1	1	0	22.95	0.1973	16.80	0.0479
		1	104	1	99	22.53	0.1792	16.38	0.0435
		50	25	100	0	22.68	0.1854	16.53	0.0450
	64QAM DFT-s-OFDM	1	1	1	0	20.94	0.1243	14.79	0.0302
		1	104	1	99	21.11	0.1292	14.96	0.0313
		50	25	100	0	21.13	0.1297	14.98	0.0315
	256QAM DFT-s-OFDM	1	1	1	0	19.50	0.0890	13.35	0.0216
		1	104	1	99	18.99	0.0793	12.84	0.0192
		50	25	100	0	19.18	0.0828	13.03	0.0201
QPSK CP-OFDM	1	1	1	0	22.13	0.1631	15.98	0.0396	
	1	104	1	99	22.04	0.1598	15.89	0.0388	
	53	26	100	0	22.14	0.1635	15.99	0.0397	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.17	0.2609	18.02	0.0633
		1	104	1	99	23.87	0.2436	17.72	0.0591
		50	25	100	0	24.09	0.2562	17.94	0.0622
	QPSK DFT-s-OFDM	1	1	1	0	24.03	0.2527	17.88	0.0613
		1	104	1	99	23.83	0.2414	17.68	0.0586
		50	25	100	0	24.08	0.2556	17.93	0.0620
	16QAM DFT-s-OFDM	1	1	1	0	22.60	0.1821	16.45	0.0442
		1	104	1	99	22.48	0.1771	16.33	0.0430
		50	25	100	0	22.63	0.1833	16.48	0.0445
	64QAM DFT-s-OFDM	1	1	1	0	21.12	0.1294	14.97	0.0314
		1	104	1	99	20.89	0.1228	14.74	0.0298
		50	25	100	0	21.04	0.1271	14.89	0.0308
	256QAM DFT-s-OFDM	1	1	1	0	19.30	0.0851	13.15	0.0206
		1	104	1	99	19.16	0.0824	13.01	0.0200
		50	25	100	0	19.18	0.0828	13.03	0.0201

EN-DC n5 (ANT1)+2A (ANT3)Combination 15MHz+20MHz(LTE)(GT - LC = -4 dB)									
Channel	Mode	NR		LTE		Conducted		ERP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	ERP(dBm)	ERP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.12	0.2580	17.97	0.0626
		1	77	1	99	23.87	0.2436	17.72	0.0591
		36	18	100	0	24.03	0.2527	17.88	0.0613
	QPSK DFT-s-OFDM	1	1	1	0	24.17	0.2609	18.02	0.0633
		1	77	1	99	23.83	0.2414	17.68	0.0586
		36	18	100	0	24.05	0.2539	17.90	0.0616
	16QAM DFT-s-OFDM	1	1	1	0	22.63	0.1833	16.48	0.0445
		1	77	1	99	22.90	0.1950	16.75	0.0473
		36	18	100	0	22.94	0.1968	16.79	0.0478
	64QAM DFT-s-OFDM	1	1	1	0	21.61	0.1448	15.46	0.0351
		1	77	1	99	21.31	0.1352	15.16	0.0328
		36	18	100	0	21.49	0.1409	15.34	0.0342
	256QAM DFT-s-OFDM	1	1	1	0	19.72	0.0938	13.57	0.0228
		1	77	1	99	19.38	0.0866	13.23	0.0210
		36	18	100	0	19.47	0.0886	13.32	0.0215
Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.05	0.2538	17.90	0.0616
		1	77	1	99	23.84	0.2419	17.69	0.0587
		36	18	100	0	23.95	0.2481	17.80	0.0602
	QPSK DFT-s-OFDM	1	1	1	0	24.00	0.2510	17.85	0.0609
		1	77	1	99	23.83	0.2414	17.68	0.0586
		36	18	100	0	23.93	0.2469	17.78	0.0599
	16QAM DFT-s-OFDM	1	1	1	0	22.92	0.1961	16.77	0.0476
		1	77	1	99	22.60	0.1821	16.45	0.0442
		36	18	100	0	22.89	0.1946	16.74	0.0472
	64QAM DFT-s-OFDM	1	1	1	0	21.51	0.1417	15.36	0.0344
		1	77	1	99	21.31	0.1352	15.16	0.0328
		36	18	100	0	21.30	0.1349	15.15	0.0327
	256QAM DFT-s-OFDM	1	1	1	0	19.68	0.0930	13.53	0.0226
		1	77	1	99	19.88	0.0973	13.73	0.0236
		36	18	100	0	19.34	0.0858	13.19	0.0208
QPSK CP-OFDM	1	1	1	0	22.40	0.1739	16.25	0.0422	
	1	77	1	99	22.31	0.1703	16.16	0.0413	
	39	19	100	0	22.35	0.1719	16.20	0.0417	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.83	0.2413	17.68	0.0586
		1	77	1	99	23.63	0.2305	17.48	0.0559
		36	18	100	0	23.81	0.2403	17.66	0.0583
	QPSK DFT-s-OFDM	1	1	1	0	23.95	0.2481	17.80	0.0602
		1	77	1	99	23.62	0.2300	17.47	0.0558
		36	18	100	0	23.78	0.2386	17.63	0.0579
	16QAM DFT-s-OFDM	1	1	1	0	22.81	0.1912	16.66	0.0464
		1	77	1	99	22.58	0.1812	16.43	0.0440
		36	18	100	0	22.76	0.1888	16.61	0.0458
	64QAM DFT-s-OFDM	1	1	1	0	21.47	0.1402	15.32	0.0340
		1	77	1	99	21.39	0.1377	15.24	0.0334
		36	18	100	0	21.26	0.1336	15.11	0.0324
	256QAM DFT-s-OFDM	1	1	1	0	19.43	0.0876	13.28	0.0213
		1	77	1	99	19.15	0.0822	13.00	0.0199
		36	18	100	0	19.26	0.0843	13.11	0.0205

EN-DC n5 (ANT1)+2A (ANT3)Combination 10MHz+20MHz(LTE)(GT - LC = -4 dB)									
Channel	Mode	NR		LTE		Conducted		ERP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	ERP(dBm)	ERP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.88	0.2441	17.73	0.0592
		1	50	1	99	23.73	0.2359	17.58	0.0572
		25	12	100	0	24.00	0.2510	17.85	0.0609
	QPSK DFT-s-OFDM	1	1	1	0	23.85	0.2425	17.70	0.0588
		1	50	1	99	23.77	0.2380	17.62	0.0578
		25	12	100	0	23.89	0.2447	17.74	0.0594
	16QAM DFT-s-OFDM	1	1	1	0	22.57	0.1808	16.42	0.0439
		1	50	1	99	22.74	0.1880	16.59	0.0456
		25	12	100	0	22.88	0.1941	16.73	0.0471
	64QAM DFT-s-OFDM	1	1	1	0	21.17	0.1309	15.02	0.0318
		1	50	1	99	21.31	0.1352	15.16	0.0328
		25	12	100	0	21.36	0.1367	15.21	0.0332
	256QAM DFT-s-OFDM	1	1	1	0	19.45	0.0880	13.30	0.0214
		1	50	1	99	19.58	0.0909	13.43	0.0221
		25	12	100	0	19.35	0.0860	13.20	0.0209
Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.77	0.2380	17.62	0.0578
		1	50	1	99	23.67	0.2327	17.52	0.0565
		25	12	100	0	23.78	0.2386	17.63	0.0579
	QPSK DFT-s-OFDM	1	1	1	0	23.80	0.2397	17.65	0.0582
		1	50	1	99	23.63	0.2305	17.48	0.0559
		25	12	100	0	23.81	0.2402	17.66	0.0583
	16QAM DFT-s-OFDM	1	1	1	0	22.94	0.1968	16.79	0.0478
		1	50	1	99	22.87	0.1937	16.72	0.0470
		25	12	100	0	22.91	0.1954	16.76	0.0474
	64QAM DFT-s-OFDM	1	1	1	0	21.40	0.1380	15.25	0.0335
		1	50	1	99	21.17	0.1309	15.02	0.0318
		25	12	100	0	21.40	0.1380	15.25	0.0335
	256QAM DFT-s-OFDM	1	1	1	0	19.70	0.0934	13.55	0.0227
		1	50	1	99	19.20	0.0831	13.05	0.0202
		25	12	100	0	19.47	0.0884	13.32	0.0215
QPSK CP-OFDM	1	1	1	0	22.41	0.1743	16.26	0.0423	
	1	50	1	99	22.28	0.1692	16.13	0.0411	
	26	13	100	0	22.33	0.1711	16.18	0.0415	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.61	0.2295	17.46	0.0557
		1	50	1	99	23.44	0.2207	17.29	0.0536
		25	12	100	0	23.55	0.2264	17.40	0.0549
	QPSK DFT-s-OFDM	1	1	1	0	23.60	0.2290	17.45	0.0556
		1	50	1	99	23.46	0.2217	17.31	0.0538
		25	12	100	0	23.56	0.2268	17.41	0.0550
	16QAM DFT-s-OFDM	1	1	1	0	22.74	0.1880	16.59	0.0456
		1	50	1	99	22.52	0.1787	16.37	0.0434
		25	12	100	0	22.78	0.1897	16.63	0.0460
	64QAM DFT-s-OFDM	1	1	1	0	21.16	0.1306	15.01	0.0317
		1	50	1	99	21.33	0.1358	15.18	0.0330
		25	12	100	0	21.25	0.1334	15.10	0.0324
	256QAM DFT-s-OFDM	1	1	1	0	19.43	0.0876	13.28	0.0213
		1	50	1	99	19.06	0.0805	12.91	0.0195
		25	12	100	0	19.28	0.0847	13.13	0.0205

EN-DC n5 (ANT1)+2A (ANT3)Combination 5MHz+20MHz(LTE)(GT - LC = -4 dB)									
Channel	Mode	NR		LTE		Conducted		ERP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	ERP(dBm)	ERP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.09	0.2562	17.94	0.0622
		1	23	1	99	23.97	0.2492	17.82	0.0605
		12	6	100	0	24.14	0.2591	17.99	0.0629
	QPSK DFT-s-OFDM	1	1	1	0	24.15	0.2597	18.00	0.0630
		1	23	1	99	23.93	0.2470	17.78	0.0599
		12	6	100	0	24.03	0.2527	17.88	0.0613
	16QAM DFT-s-OFDM	1	1	1	0	22.96	0.1977	16.81	0.0480
		1	23	1	99	22.91	0.1955	16.76	0.0474
		12	6	100	0	22.93	0.1964	16.78	0.0476
	64QAM DFT-s-OFDM	1	1	1	0	21.51	0.1415	15.36	0.0343
		1	23	1	99	21.53	0.1422	15.38	0.0345
		12	6	100	0	21.39	0.1377	15.24	0.0334
	256QAM DFT-s-OFDM	1	1	1	0	19.53	0.0897	13.38	0.0218
		1	23	1	99	19.47	0.0884	13.32	0.0215
		12	6	100	0	19.51	0.0894	13.36	0.0217
Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.90	0.2453	17.75	0.0595
		1	23	1	99	23.74	0.2364	17.59	0.0574
		12	6	100	0	23.69	0.2337	17.54	0.0567
	QPSK DFT-s-OFDM	1	1	1	0	23.88	0.2441	17.73	0.0592
		1	23	1	99	23.73	0.2359	17.58	0.0572
		12	6	100	0	23.76	0.2375	17.61	0.0576
	16QAM DFT-s-OFDM	1	1	1	0	22.96	0.1977	16.81	0.0480
		1	23	1	99	22.87	0.1937	16.72	0.0470
		12	6	100	0	22.77	0.1893	16.62	0.0459
	64QAM DFT-s-OFDM	1	1	1	0	21.40	0.1380	15.25	0.0335
		1	23	1	99	21.34	0.1361	15.19	0.0330
		12	6	100	0	21.33	0.1358	15.18	0.0330
	256QAM DFT-s-OFDM	1	1	1	0	19.36	0.0862	13.21	0.0209
		1	23	1	99	19.40	0.0870	13.25	0.0211
		12	6	100	0	19.26	0.0843	13.11	0.0205
QPSK CP-OFDM	1	1	1	0	22.41	0.1743	16.26	0.0423	
	1	23	1	99	22.25	0.1680	16.10	0.0408	
	13	6	100	0	22.30	0.1700	16.15	0.0412	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.82	0.2408	17.67	0.0584
		1	23	1	99	23.59	0.2284	17.44	0.0554
		12	6	100	0	23.66	0.2322	17.51	0.0563
	QPSK DFT-s-OFDM	1	1	1	0	23.78	0.2386	17.63	0.0579
		1	23	1	99	23.54	0.2258	17.39	0.0548
		12	6	100	0	23.68	0.2332	17.53	0.0566
	16QAM DFT-s-OFDM	1	1	1	0	22.74	0.1880	16.59	0.0456
		1	23	1	99	22.54	0.1796	16.39	0.0436
		12	6	100	0	22.64	0.1837	16.49	0.0446
	64QAM DFT-s-OFDM	1	1	1	0	21.37	0.1371	15.22	0.0333
		1	23	1	99	21.46	0.1399	15.31	0.0340
		12	6	100	0	21.22	0.1324	15.07	0.0321
	256QAM DFT-s-OFDM	1	1	1	0	19.30	0.0851	13.15	0.0206
		1	23	1	99	19.27	0.0845	13.12	0.0205
		12	6	100	0	19.28	0.0847	13.13	0.0205

5G NR EN_DC_n25A-12A NSA mode:

EN-DC n25 (ANT3)+12A (ANT1)Combination 20MHz+10MHz(LTE)(GT - LC = -2 dB)									
Channel	Mode	NR		LTE		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.24	0.2652	22.24	0.1673
		1	104	1	49	24.23	0.2646	22.23	0.1669
		50	25	50	0	24.25	0.2658	22.25	0.1677
	QPSK DFT-s-OFDM	1	1	1	0	24.16	0.2604	22.16	0.1643
		1	104	1	49	24.21	0.2634	22.21	0.1662
		50	25	50	0	24.29	0.2683	22.29	0.1693
	16QAM DFT-s-OFDM	1	1	1	0	23.03	0.2009	21.03	0.1268
		1	104	1	49	23.12	0.2052	21.12	0.1295
		50	25	50	0	22.78	0.1898	20.78	0.1197
	64QAM DFT-s-OFDM	1	1	1	0	21.78	0.1506	19.78	0.0950
		1	104	1	49	21.60	0.1445	19.60	0.0912
		50	25	50	0	21.31	0.1353	19.31	0.0853
	256QAM DFT-s-OFDM	1	1	1	0	19.57	0.0905	17.57	0.0571
		1	104	1	49	19.31	0.0853	17.31	0.0538
		50	25	50	0	19.42	0.0875	17.42	0.0552
Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.28	0.2676	22.28	0.1689
		1	104	1	49	24.21	0.2634	22.21	0.1662
		50	25	50	0	24.26	0.2664	22.26	0.1681
	QPSK DFT-s-OFDM	1	1	1	0	24.25	0.2658	22.25	0.1677
		1	104	1	49	24.17	0.2610	22.17	0.1647
		50	25	50	0	24.20	0.2628	22.20	0.1658
	16QAM DFT-s-OFDM	1	1	1	0	22.33	0.1712	20.33	0.1080
		1	104	1	49	22.29	0.1696	20.29	0.1070
		50	25	50	0	22.23	0.1669	20.23	0.1053
	64QAM DFT-s-OFDM	1	1	1	0	21.65	0.1462	19.65	0.0922
		1	104	1	49	21.65	0.1462	19.65	0.0922
		50	25	50	0	21.60	0.1445	19.60	0.0912
	256QAM DFT-s-OFDM	1	1	1	0	19.20	0.0832	17.20	0.0525
		1	104	1	49	19.35	0.0861	17.35	0.0543
		50	25	50	0	19.23	0.0838	17.23	0.0529
QPSK CP-OFDM	1	1	1	0	22.36	0.1724	20.36	0.1087	
	1	104	1	49	22.32	0.1708	20.32	0.1078	
	53	26	50	0	22.34	0.1716	20.34	0.1083	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.30	0.2689	22.30	0.1697
		1	104	1	49	23.98	0.2498	21.98	0.1576
		50	25	50	0	24.08	0.2556	22.08	0.1613
	QPSK DFT-s-OFDM	1	1	1	0	24.13	0.2586	22.13	0.1632
		1	104	1	49	23.93	0.2470	21.93	0.1558
		50	25	50	0	24.13	0.2586	22.13	0.1632
	16QAM DFT-s-OFDM	1	1	1	0	23.00	0.1996	21.00	0.1259
		1	104	1	49	22.58	0.1813	20.58	0.1144
		50	25	50	0	22.90	0.1951	20.90	0.1231
	64QAM DFT-s-OFDM	1	1	1	0	21.82	0.1520	19.82	0.0959
		1	104	1	49	21.41	0.1384	19.41	0.0873
		50	25	50	0	21.54	0.1425	19.54	0.0899
	256QAM DFT-s-OFDM	1	1	1	0	19.48	0.0887	17.48	0.0559
		1	104	1	49	19.30	0.0851	17.30	0.0537
		50	25	50	0	19.38	0.0867	17.38	0.0547

EN-DC n25 (ANT3)+12A (ANT1)Combination 15MHz+10MHz(LTE)(GT - LC = -2 dB)									
Channel	Mode	NR		LTE		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.27	0.2670	22.27	0.1685
		1	77	1	49	24.23	0.2646	22.23	0.1670
		36	18	50	0	24.26	0.2664	22.26	0.1681
	QPSK DFT-s-OFDM	1	1	1	0	24.20	0.2628	22.20	0.1658
		1	77	1	49	24.23	0.2646	22.23	0.1669
		36	18	50	0	24.18	0.2616	22.18	0.1650
	16QAM DFT-s-OFDM	1	1	1	0	22.84	0.1924	20.84	0.1214
		1	77	1	49	22.83	0.1920	20.83	0.1211
		36	18	50	0	22.96	0.1978	20.96	0.1248
	64QAM DFT-s-OFDM	1	1	1	0	21.86	0.1534	19.86	0.0968
		1	77	1	49	21.44	0.1393	19.44	0.0879
		36	18	50	0	21.51	0.1416	19.51	0.0893
	256QAM DFT-s-OFDM	1	1	1	0	19.39	0.0869	17.39	0.0548
		1	77	1	49	19.55	0.0901	17.55	0.0569
		36	18	50	0	19.41	0.0873	17.41	0.0551
Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.29	0.2682	22.29	0.1692
		1	77	1	49	24.25	0.2658	22.25	0.1677
		36	18	50	0	24.26	0.2664	22.26	0.1681
	QPSK DFT-s-OFDM	1	1	1	0	24.23	0.2646	22.23	0.1669
		1	77	1	49	24.15	0.2598	22.15	0.1639
		36	18	50	0	24.23	0.2646	22.23	0.1670
	16QAM DFT-s-OFDM	1	1	1	0	22.04	0.1598	20.04	0.1008
		1	77	1	49	22.22	0.1666	20.22	0.1051
		36	18	50	0	22.20	0.1658	20.20	0.1046
	64QAM DFT-s-OFDM	1	1	1	0	21.46	0.1400	19.46	0.0883
		1	77	1	49	21.52	0.1419	19.52	0.0895
		36	18	50	0	21.68	0.1472	19.68	0.0929
	256QAM DFT-s-OFDM	1	1	1	0	19.33	0.0857	17.33	0.0541
		1	77	1	49	19.48	0.0887	17.48	0.0560
		36	18	50	0	19.30	0.0851	17.30	0.0537
QPSK CP-OFDM	1	1	1	0	22.31	0.1700	20.31	0.1073	
	1	77	1	49	22.34	0.1716	20.34	0.1083	
	39	19	50	0	22.36	0.1723	20.36	0.1087	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.26	0.2664	22.26	0.1681
		1	77	1	49	24.17	0.2610	22.17	0.1647
		36	18	50	0	24.22	0.2640	22.22	0.1666
	QPSK DFT-s-OFDM	1	1	1	0	24.20	0.2628	22.20	0.1658
		1	77	1	49	24.24	0.2652	22.24	0.1673
		36	18	50	0	24.25	0.2658	22.25	0.1677
	16QAM DFT-s-OFDM	1	1	1	0	22.78	0.1898	20.78	0.1197
		1	77	1	49	22.71	0.1867	20.71	0.1178
		36	18	50	0	22.83	0.1920	20.83	0.1211
	64QAM DFT-s-OFDM	1	1	1	0	21.81	0.1516	19.81	0.0957
		1	77	1	49	21.58	0.1439	19.58	0.0908
		36	18	50	0	21.33	0.1359	19.33	0.0857
	256QAM DFT-s-OFDM	1	1	1	0	19.41	0.0873	17.41	0.0551
		1	77	1	49	19.63	0.0918	17.63	0.0579
		36	18	50	0	19.30	0.0851	17.30	0.0537

EN-DC n25 (ANT3)+12A (ANT1)Combination 10MHz+10MHz(LTE)(GT - LC = -2 dB)									
Channel	Mode	NR		LTE		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.15	0.2603	22.15	0.1642
		1	50	1	49	24.13	0.2586	22.13	0.1632
		25	12	50	0	24.28	0.2676	22.28	0.1689
	QPSK DFT-s-OFDM	1	1	1	0	24.27	0.2670	22.27	0.1685
		1	50	1	49	24.10	0.2568	22.10	0.1620
		25	12	50	0	24.14	0.2592	22.14	0.1635
	16QAM DFT-s-OFDM	1	1	1	0	22.88	0.1942	20.88	0.1225
		1	104	1	49	22.98	0.1987	20.98	0.1254
		50	25	50	0	22.94	0.1969	20.94	0.1242
	64QAM DFT-s-OFDM	1	1	1	0	21.46	0.1400	19.46	0.0883
		1	104	1	49	21.58	0.1439	19.58	0.0908
		50	25	50	0	21.27	0.1340	19.27	0.0846
	256QAM DFT-s-OFDM	1	1	1	0	19.33	0.0857	17.33	0.0541
		1	104	1	49	19.29	0.0849	17.29	0.0536
		50	25	50	0	19.29	0.0849	17.29	0.0536
Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.15	0.2598	22.15	0.1639
		1	50	1	49	24.21	0.2634	22.21	0.1662
		25	12	50	0	24.20	0.2628	22.20	0.1658
	QPSK DFT-s-OFDM	1	1	1	0	24.23	0.2646	22.23	0.1669
		1	50	1	49	24.17	0.2610	22.17	0.1646
		25	12	50	0	24.18	0.2616	22.18	0.1650
	16QAM DFT-s-OFDM	1	1	1	0	22.26	0.1685	20.26	0.1063
		1	50	1	49	22.34	0.1716	20.34	0.1083
		25	12	50	0	22.17	0.1646	20.17	0.1039
	64QAM DFT-s-OFDM	1	1	1	0	21.59	0.1442	19.59	0.0910
		1	50	1	49	21.55	0.1429	19.55	0.0901
		25	12	50	0	21.59	0.1442	19.59	0.0910
	256QAM DFT-s-OFDM	1	1	1	0	19.23	0.0838	17.23	0.0529
		1	50	1	49	19.22	0.0836	17.22	0.0527
		25	12	50	0	19.27	0.0845	17.27	0.0533
QPSK CP-OFDM	1	1	1	0	22.41	0.1743	20.41	0.1100	
	1	50	1	49	22.23	0.1673	20.23	0.1056	
	26	13	50	0	22.26	0.1681	20.26	0.1061	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.07	0.2550	22.07	0.1609
		1	50	1	49	24.05	0.2539	22.05	0.1602
		25	12	50	0	24.11	0.2574	22.11	0.1624
	QPSK DFT-s-OFDM	1	1	1	0	24.13	0.2586	22.13	0.1632
		1	50	1	49	24.12	0.2580	22.12	0.1628
		25	12	50	0	24.17	0.2610	22.17	0.1647
	16QAM DFT-s-OFDM	1	1	1	0	23.00	0.1996	21.00	0.1259
		1	104	1	49	22.90	0.1950	20.90	0.1231
		50	25	50	0	22.63	0.1834	20.63	0.1157
	64QAM DFT-s-OFDM	1	1	1	0	21.42	0.1387	19.42	0.0875
		1	104	1	49	21.61	0.1448	19.61	0.0914
		50	25	50	0	21.24	0.1331	19.24	0.0840
	256QAM DFT-s-OFDM	1	1	1	0	19.48	0.0887	17.48	0.0559
		1	104	1	49	19.63	0.0918	17.63	0.0579
		50	25	50	0	19.34	0.0859	17.34	0.0542

EN-DC n25 (ANT3)+12A (ANT1)Combination 5MHz+10MHz(LTE)(GT - LC = -2 dB)									
Channel	Mode	NR		LTE		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.22	0.2640	22.22	0.1666
		1	23	1	49	24.17	0.2610	22.17	0.1647
		12	6	50	0	24.23	0.2646	22.23	0.1669
	QPSK DFT-s-OFDM	1	1	1	0	24.06	0.2545	22.06	0.1606
		1	23	1	49	24.13	0.2586	22.13	0.1632
		12	6	50	0	24.14	0.2592	22.14	0.1635
	16QAM DFT-s-OFDM	1	1	1	0	22.81	0.1911	20.81	0.1206
		1	23	1	49	22.89	0.1946	20.89	0.1228
		12	6	50	0	22.74	0.1881	20.74	0.1187
	64QAM DFT-s-OFDM	1	1	1	0	21.52	0.1419	19.52	0.0895
		1	23	1	49	21.65	0.1462	19.65	0.0922
		12	6	50	0	21.18	0.1313	19.18	0.0828
	256QAM DFT-s-OFDM	1	1	1	0	19.47	0.0885	17.47	0.0558
		1	23	1	49	19.52	0.0895	17.52	0.0565
		12	6	50	0	19.41	0.0873	17.41	0.0551
Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.11	0.2574	22.11	0.1624
		1	23	1	49	24.17	0.2610	22.17	0.1647
		12	6	50	0	24.08	0.2557	22.08	0.1613
	QPSK DFT-s-OFDM	1	1	1	0	24.13	0.2586	22.13	0.1632
		1	23	1	49	24.21	0.2634	22.21	0.1662
		12	6	50	0	24.22	0.2640	22.22	0.1666
	16QAM DFT-s-OFDM	1	1	1	0	22.15	0.1639	20.15	0.1034
		1	23	1	49	22.19	0.1654	20.19	0.1044
		12	6	50	0	22.17	0.1647	20.17	0.1039
	64QAM DFT-s-OFDM	1	1	1	0	21.47	0.1403	19.47	0.0885
		1	23	1	49	21.51	0.1416	19.51	0.0893
		12	6	50	0	21.49	0.1409	19.49	0.0889
	256QAM DFT-s-OFDM	1	1	1	0	19.36	0.0863	17.36	0.0544
		1	23	1	49	19.16	0.0824	17.16	0.0520
		12	6	50	0	19.28	0.0847	17.28	0.0535
QPSK CP-OFDM	1	1	1	0	22.28	0.1692	20.28	0.1068	
	1	23	1	49	22.32	0.1708	20.32	0.1078	
	13	6	50	0	22.28	0.1689	20.28	0.1065	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.05	0.2539	22.05	0.1602
		1	23	1	49	24.22	0.2640	22.22	0.1666
		12	6	50	0	24.17	0.2610	22.17	0.1647
	QPSK DFT-s-OFDM	1	1	1	0	24.00	0.2510	22.00	0.1584
		1	23	1	49	24.13	0.2586	22.13	0.1632
		12	6	50	0	24.21	0.2634	22.21	0.1662
	16QAM DFT-s-OFDM	1	1	1	0	22.80	0.1906	20.80	0.1203
		1	23	1	49	22.99	0.1991	20.99	0.1256
		12	6	50	0	22.64	0.1838	20.64	0.1160
	64QAM DFT-s-OFDM	1	1	1	0	21.45	0.1396	19.45	0.0881
		1	23	1	49	21.42	0.1387	19.42	0.0875
		12	6	50	0	21.18	0.1313	19.18	0.0828
	256QAM DFT-s-OFDM	1	1	1	0	19.42	0.0875	17.42	0.0552
		1	23	1	49	19.41	0.0873	17.41	0.0551
		12	6	50	0	19.40	0.0871	17.40	0.0549

5G NR EN_DC_n66A-2A NSA mode:

EN-DC n66 (ANT0)+2A (ANT3)Combination 20MHz+20MHz(LTE)(GT - LC = -2.0 dB)									
Channel	Mode	NR		LTE		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.43	0.2771	22.43	0.1749
		1	104	1	99	24.26	0.2669	22.26	0.1684
		50	25	100	0	24.34	0.2715	22.34	0.1713
	QPSK DFT-s-OFDM	1	1	1	0	24.40	0.2752	22.40	0.1737
		1	104	1	99	24.25	0.2663	22.25	0.1680
		50	25	100	0	24.29	0.2684	22.29	0.1694
	16QAM DFT-s-OFDM	1	1	1	0	22.40	0.1736	20.40	0.1096
		1	104	1	99	22.26	0.1681	20.26	0.1061
		50	25	100	0	22.58	0.1813	20.58	0.1144
	64QAM DFT-s-OFDM	1	1	1	0	20.48	0.1117	18.48	0.0705
		1	104	1	99	20.35	0.1084	18.35	0.0684
		50	25	100	0	21.36	0.1369	19.36	0.0864
	256QAM DFT-s-OFDM	1	1	1	0	18.90	0.0776	16.90	0.0490
		1	104	1	99	19.15	0.0822	17.15	0.0518
		50	25	100	0	19.34	0.0860	17.34	0.0542
Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.32	0.2702	22.32	0.1705
		1	104	1	99	24.25	0.2659	22.25	0.1678
		50	25	100	0	24.24	0.2653	22.24	0.1674
	QPSK DFT-s-OFDM	1	1	1	0	24.04	0.2534	22.04	0.1599
		1	104	1	99	24.11	0.2575	22.11	0.1625
		50	25	100	0	24.10	0.2569	22.10	0.1621
	16QAM DFT-s-OFDM	1	1	1	0	22.26	0.1682	20.26	0.1061
		1	104	1	99	22.20	0.1659	20.20	0.1047
		50	25	100	0	22.68	0.1856	20.68	0.1171
	64QAM DFT-s-OFDM	1	1	1	0	20.65	0.1161	18.65	0.0733
		1	104	1	99	20.63	0.1156	18.63	0.0729
		50	25	100	0	21.28	0.1344	19.28	0.0848
	256QAM DFT-s-OFDM	1	1	1	0	19.00	0.0794	17.00	0.0501
		1	104	1	99	18.87	0.0771	16.87	0.0486
		50	25	100	0	19.39	0.0869	17.39	0.0549
QPSK CP-OFDM	1	1	1	0	21.52	0.1420	19.52	0.0896	
	1	104	1	99	21.35	0.1366	19.35	0.0862	
	53	26	100	0	22.10	0.1621	20.10	0.1023	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.24	0.2653	22.24	0.1674
		1	104	1	99	24.14	0.2593	22.14	0.1636
		50	25	100	0	24.25	0.2659	22.25	0.1678
	QPSK DFT-s-OFDM	1	1	1	0	24.29	0.2683	22.29	0.1693
		1	104	1	99	24.04	0.2534	22.04	0.1599
		50	25	100	0	24.17	0.2611	22.17	0.1647
	16QAM DFT-s-OFDM	1	1	1	0	22.79	0.1903	20.79	0.1201
		1	104	1	99	22.85	0.1929	20.85	0.1217
		50	25	100	0	22.71	0.1868	20.71	0.1179
	64QAM DFT-s-OFDM	1	1	1	0	21.33	0.1359	19.33	0.0858
		1	104	1	99	21.46	0.1401	19.46	0.0884
		50	25	100	0	21.20	0.1320	19.20	0.0833
	256QAM DFT-s-OFDM	1	1	1	0	19.30	0.0852	17.30	0.0537
		1	104	1	99	19.41	0.0873	17.41	0.0551
		50	25	100	0	19.20	0.0831	17.20	0.0524

EN-DC n66 (ANT0)+2A (ANT3)Combination 15MHz+20MHz(LTE)(GT - LC = -2.0 dB)									
Channel	Mode	NR		LTE		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.07	0.2551	22.07	0.1609
		1	77	1	99	23.97	0.2493	21.97	0.1573
		36	18	100	0	24.09	0.2562	22.09	0.1617
	QPSK DFT-s-OFDM	1	1	1	0	23.94	0.2476	21.94	0.1562
		1	77	1	99	24.00	0.2510	22.00	0.1584
		36	18	100	0	24.07	0.2551	22.07	0.1609
	16QAM DFT-s-OFDM	1	1	1	0	22.25	0.1677	20.25	0.1058
		1	77	1	99	22.33	0.1708	20.33	0.1078
		36	18	100	0	22.63	0.1833	20.63	0.1157
	64QAM DFT-s-OFDM	1	1	1	0	21.07	0.1280	19.07	0.0808
		1	77	1	99	21.19	0.1316	19.19	0.0830
		36	18	100	0	21.18	0.1313	19.18	0.0828
	256QAM DFT-s-OFDM	1	1	1	0	19.31	0.0853	17.31	0.0538
		1	77	1	99	19.18	0.0828	17.18	0.0522
		36	18	100	0	19.17	0.0826	17.17	0.0521
Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.19	0.2622	22.19	0.1654
		1	77	1	99	24.21	0.2634	22.21	0.1662
		36	18	100	0	23.17	0.2075	21.17	0.1309
	QPSK DFT-s-OFDM	1	1	1	0	24.16	0.2604	22.16	0.1643
		1	77	1	99	24.17	0.2610	22.17	0.1647
		36	18	100	0	24.20	0.2628	22.20	0.1658
	16QAM DFT-s-OFDM	1	1	1	0	22.49	0.1776	20.49	0.1120
		1	77	1	99	22.67	0.1850	20.67	0.1168
		36	18	100	0	22.64	0.1838	20.64	0.1159
	64QAM DFT-s-OFDM	1	1	1	0	21.71	0.1482	19.71	0.0935
		1	77	1	99	21.28	0.1343	19.28	0.0848
		36	18	100	0	21.26	0.1337	19.26	0.0844
	256QAM DFT-s-OFDM	1	1	1	0	19.26	0.0843	17.26	0.0532
		1	77	1	99	19.18	0.0828	17.18	0.0523
		36	18	100	0	19.21	0.0834	17.21	0.0526
QPSK CP-OFDM	1	1	1	0	22.53	0.1792	20.53	0.1131	
	1	77	1	99	22.32	0.1708	20.32	0.1078	
	39	19	100	0	22.22	0.1666	20.22	0.1051	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.07	0.2550	22.07	0.1609
		1	77	1	99	23.97	0.2493	21.97	0.1573
		36	18	100	0	24.05	0.2539	22.05	0.1602
	QPSK DFT-s-OFDM	1	1	1	0	24.03	0.2527	22.03	0.1595
		1	77	1	99	23.89	0.2448	21.89	0.1544
		36	18	100	0	24.04	0.2533	22.04	0.1598
	16QAM DFT-s-OFDM	1	1	1	0	22.33	0.1708	20.33	0.1078
		1	77	1	99	22.46	0.1764	20.46	0.1113
		36	18	100	0	22.53	0.1792	20.53	0.1131
	64QAM DFT-s-OFDM	1	1	1	0	21.10	0.1289	19.10	0.0813
		1	77	1	99	21.04	0.1271	19.04	0.0802
		36	18	100	0	21.06	0.1277	19.06	0.0806
	256QAM DFT-s-OFDM	1	1	1	0	19.20	0.0832	17.20	0.0525
		1	77	1	99	18.92	0.0779	16.92	0.0492
		36	18	100	0	19.06	0.0806	17.06	0.0509

EN-DC n66 (ANT0)+2A (ANT3)Combination 10MHz+20MHz(LTE)(GT - LC = -2.0 dB)									
Channel	Mode	NR		LTE		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.05	0.2539	22.05	0.1602
		1	50	1	99	23.93	0.2470	21.93	0.1559
		25	12	100	0	24.00	0.2511	22.00	0.1584
	QPSK DFT-s-OFDM	1	1	1	0	23.45	0.2212	21.45	0.1396
		1	50	1	99	23.65	0.2317	21.65	0.1462
		25	12	100	0	24.00	0.2511	22.00	0.1584
	16QAM DFT-s-OFDM	1	1	1	0	22.21	0.1665	20.21	0.1051
		1	50	1	99	22.42	0.1747	20.42	0.1102
		25	12	100	0	22.69	0.1859	20.69	0.1173
	64QAM DFT-s-OFDM	1	1	1	0	20.61	0.1150	18.61	0.0725
		1	50	1	99	21.01	0.1263	19.01	0.0797
		25	12	100	0	21.24	0.1331	19.24	0.0840
	256QAM DFT-s-OFDM	1	1	1	0	19.44	0.0879	17.44	0.0554
		1	50	1	99	19.29	0.0849	17.29	0.0536
		25	12	100	0	19.36	0.0863	17.36	0.0544
Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.11	0.2574	22.11	0.1624
		1	50	1	99	24.05	0.2539	22.05	0.1602
		25	12	100	0	24.10	0.2568	22.10	0.1621
	QPSK DFT-s-OFDM	1	1	1	0	24.00	0.2510	22.00	0.1584
		1	50	1	99	24.10	0.2568	22.10	0.1620
		25	12	100	0	24.09	0.2563	22.09	0.1617
	16QAM DFT-s-OFDM	1	1	1	0	22.75	0.1885	20.75	0.1189
		1	50	1	99	22.63	0.1834	20.63	0.1157
		25	12	100	0	22.76	0.1889	20.76	0.1192
	64QAM DFT-s-OFDM	1	1	1	0	21.05	0.1274	19.05	0.0804
		1	50	1	99	21.22	0.1325	19.22	0.0836
		25	12	100	0	21.24	0.1331	19.24	0.0840
	256QAM DFT-s-OFDM	1	1	1	0	19.08	0.0809	17.08	0.0511
		1	50	1	99	19.10	0.0813	17.10	0.0513
		25	12	100	0	19.31	0.0853	17.31	0.0538
QPSK CP-OFDM	1	1	1	0	22.24	0.1677	20.24	0.1058	
	1	50	1	99	22.14	0.1635	20.14	0.1032	
	26	13	100	0	22.27	0.1688	20.27	0.1065	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.17	0.2610	22.17	0.1647
		1	50	1	99	23.99	0.2504	21.99	0.1580
		25	12	100	0	24.09	0.2563	22.09	0.1617
	QPSK DFT-s-OFDM	1	1	1	0	24.21	0.2634	22.21	0.1662
		1	50	1	99	23.75	0.2370	21.75	0.1496
		25	12	100	0	24.12	0.2581	22.12	0.1628
	16QAM DFT-s-OFDM	1	1	1	0	22.53	0.1792	20.53	0.1131
		1	50	1	99	22.69	0.1859	20.69	0.1173
		25	12	100	0	22.68	0.1855	20.68	0.1170
	64QAM DFT-s-OFDM	1	1	1	0	21.37	0.1371	19.37	0.0865
		1	50	1	99	21.32	0.1356	19.32	0.0855
		25	12	100	0	21.19	0.1316	19.19	0.0830
	256QAM DFT-s-OFDM	1	1	1	0	19.11	0.0815	17.11	0.0514
		1	50	1	99	19.34	0.0859	17.34	0.0542
		25	12	100	0	19.18	0.0828	17.18	0.0523

EN-DC n66 (ANT0)+2A (ANT3)Combination 5MHz+20MHz(LTE)(GT - LC = -2.0 dB)									
Channel	Mode	NR		LTE		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.08	0.2557	22.08	0.1613
		1	23	1	99	23.98	0.2499	21.98	0.1577
		12	6	100	0	23.95	0.2482	21.95	0.1566
	QPSK DFT-s-OFDM	1	1	1	0	24.00	0.2510	22.00	0.1584
		1	23	1	99	23.95	0.2482	21.95	0.1566
		12	6	100	0	24.07	0.2551	22.07	0.1609
	16QAM DFT-s-OFDM	1	1	1	0	22.64	0.1838	20.64	0.1160
		1	23	1	99	22.67	0.1851	20.67	0.1168
		12	6	100	0	22.74	0.1880	20.74	0.1186
	64QAM DFT-s-OFDM	1	1	1	0	21.20	0.1319	19.20	0.0832
		1	23	1	99	21.43	0.1390	19.43	0.0877
		12	6	100	0	21.23	0.1328	19.23	0.0838
	256QAM DFT-s-OFDM	1	1	1	0	19.32	0.0855	17.32	0.0539
		1	23	1	99	19.15	0.0823	17.15	0.0519
		12	6	100	0	19.28	0.0847	17.28	0.0535
Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.12	0.2580	22.12	0.1628
		1	23	1	99	24.10	0.2569	22.10	0.1621
		12	6	100	0	24.14	0.2592	22.14	0.1636
	QPSK DFT-s-OFDM	1	1	1	0	24.15	0.2598	22.15	0.1639
		1	23	1	99	24.03	0.2527	22.03	0.1595
		12	6	100	0	24.08	0.2557	22.08	0.1613
	16QAM DFT-s-OFDM	1	1	1	0	22.78	0.1898	20.78	0.1197
		1	23	1	99	22.43	0.1752	20.43	0.1105
		12	6	100	0	22.82	0.1915	20.82	0.1208
	64QAM DFT-s-OFDM	1	1	1	0	21.36	0.1368	19.36	0.0863
		1	23	1	99	21.24	0.1331	19.24	0.0840
		12	6	100	0	21.29	0.1347	19.29	0.0850
	256QAM DFT-s-OFDM	1	1	1	0	19.29	0.0849	17.29	0.0536
		1	23	1	99	19.32	0.0855	17.32	0.0539
		12	6	100	0	19.35	0.0861	17.35	0.0543
QPSK CP-OFDM	1	1	1	0	22.28	0.1692	20.28	0.1068	
	1	23	1	99	22.23	0.1669	20.23	0.1053	
	13	6	100	0	22.32	0.1704	20.32	0.1075	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.08	0.2556	22.08	0.1613
		1	23	1	99	24.00	0.2510	22.00	0.1584
		12	6	100	0	24.10	0.2569	22.10	0.1621
	QPSK DFT-s-OFDM	1	1	1	0	24.05	0.2539	22.05	0.1602
		1	23	1	99	24.06	0.2545	22.06	0.1606
		12	6	100	0	24.08	0.2557	22.08	0.1613
	16QAM DFT-s-OFDM	1	1	1	0	22.57	0.1809	20.57	0.1141
		1	23	1	99	22.71	0.1867	20.71	0.1178
		12	6	100	0	22.73	0.1876	20.73	0.1184
	64QAM DFT-s-OFDM	1	1	1	0	21.16	0.1307	19.16	0.0825
		1	23	1	99	21.24	0.1331	19.24	0.0840
		12	6	100	0	21.18	0.1313	19.18	0.0828
	256QAM DFT-s-OFDM	1	1	1	0	19.34	0.0859	17.34	0.0542
		1	23	1	99	19.39	0.0869	17.39	0.0548
		12	6	100	0	19.29	0.0849	17.29	0.0536

5G NR n2_SA mode:

SA n2 (ANT3)20MHz (GT - LC = -2 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	24.09	0.2564	22.09	0.1618
		1	104	24.16	0.2606	22.16	0.1644
		50	25	24.11	0.2576	22.11	0.1626
	QPSK DFT-s-OFDM	1	1	24.00	0.2512	22.00	0.1585
		1	104	24.12	0.2582	22.12	0.1629
		50	25	24.05	0.2541	22.05	0.1603
	16QAM DFT-s-OFDM	1	1	22.88	0.1941	20.88	0.1225
		1	104	22.82	0.1914	20.82	0.1208
		50	25	22.91	0.1954	20.91	0.1233
	64QAM DFT-s-OFDM	1	1	21.64	0.1459	19.64	0.0920
		1	104	21.60	0.1445	19.60	0.0912
		50	25	21.38	0.1374	19.38	0.0867
	256QAM DFT-s-OFDM	1	1	19.44	0.0879	17.44	0.0555
		1	104	20.01	0.1002	18.01	0.0632
		50	25	19.37	0.0865	17.37	0.0546
Middle	PI/2 BPSK DFT-s-OFDM	1	1	24.16	0.2606	22.16	0.1644
		1	104	24.13	0.2588	22.13	0.1633
		50	25	24.25	0.2661	22.25	0.1679
	QPSK DFT-s-OFDM	1	1	24.14	0.2594	22.14	0.1637
		1	104	24.11	0.2576	22.11	0.1626
		50	25	24.19	0.2624	22.19	0.1656
	16QAM DFT-s-OFDM	1	1	22.95	0.1972	20.95	0.1245
		1	104	23.00	0.1995	21.00	0.1259
		50	25	22.96	0.1977	20.96	0.1247
	64QAM DFT-s-OFDM	1	1	21.42	0.1387	19.42	0.0875
		1	104	21.83	0.1524	19.83	0.0962
		50	25	21.41	0.1384	19.41	0.0873
	256QAM DFT-s-OFDM	1	1	19.76	0.0946	17.76	0.0597
		1	104	19.63	0.0918	17.63	0.0579
		50	25	19.50	0.0891	17.50	0.0562
QPSK CP-s-OFDM	1	1	22.20	0.1660	20.20	0.1047	
	1	104	21.65	0.1462	19.65	0.0923	
	53	26	22.45	0.1758	20.45	0.1109	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	24.14	0.2594	22.14	0.1637
		1	104	24.04	0.2535	22.04	0.1600
		50	25	24.11	0.2576	22.11	0.1626
	QPSK DFT-s-OFDM	1	1	24.13	0.2588	22.13	0.1633
		1	104	23.98	0.2500	21.98	0.1578
		50	25	24.17	0.2612	22.17	0.1648
	16QAM DFT-s-OFDM	1	1	22.84	0.1923	20.84	0.1213
		1	104	22.74	0.1879	20.74	0.1186
		50	25	22.95	0.1972	20.95	0.1245
	64QAM DFT-s-OFDM	1	1	21.74	0.1493	19.74	0.0942
		1	104	21.15	0.1303	19.15	0.0822
		50	25	21.51	0.1416	19.51	0.0893
	256QAM DFT-s-OFDM	1	1	19.28	0.0847	17.28	0.0535
		1	104	19.44	0.0879	17.44	0.0555
		50	25	19.52	0.0895	17.52	0.0565

SA n2 (ANT3)15MHz (GT - LC = -2 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	24.10	0.2570	22.10	0.1622
		1	77	24.01	0.2518	22.01	0.1589
		36	18	24.12	0.2582	22.12	0.1629
	QPSK DFT-s-OFDM	1	1	24.18	0.2618	22.18	0.1652
		1	77	24.02	0.2523	22.02	0.1592
		36	18	24.11	0.2576	22.11	0.1626
	16QAM DFT-s-OFDM	1	1	23.15	0.2065	21.15	0.1303
		1	77	22.97	0.1982	20.97	0.1250
		36	18	23.18	0.2080	21.18	0.1312
	64QAM DFT-s-OFDM	1	1	21.82	0.1521	19.82	0.0959
		1	77	21.22	0.1324	19.22	0.0836
		36	18	21.51	0.1416	19.51	0.0893
	256QAM DFT-s-OFDM	1	1	19.70	0.0933	17.70	0.0589
		1	77	19.79	0.0953	17.79	0.0601
		36	18	19.57	0.0906	17.57	0.0571
Middle	PI/2 BPSK DFT-s-OFDM	1	1	24.19	0.2624	22.19	0.1656
		1	77	24.16	0.2606	22.16	0.1644
		36	18	24.21	0.2636	22.21	0.1663
	QPSK DFT-s-OFDM	1	1	24.11	0.2576	22.11	0.1626
		1	77	24.16	0.2606	22.16	0.1644
		36	18	24.24	0.2655	22.24	0.1675
	16QAM DFT-s-OFDM	1	1	22.94	0.1968	20.94	0.1242
		1	77	23.05	0.2018	21.05	0.1274
		36	18	23.16	0.2070	21.16	0.1306
	64QAM DFT-s-OFDM	1	1	21.63	0.1455	19.63	0.0918
		1	77	21.47	0.1403	19.47	0.0885
		36	18	21.57	0.1435	19.57	0.0906
	256QAM DFT-s-OFDM	1	1	19.77	0.0948	17.77	0.0598
		1	77	19.76	0.0946	17.76	0.0597
		36	18	19.43	0.0877	17.43	0.0553
QPSK CP-s-OFDM	1	1	21.90	0.1549	19.90	0.0977	
	1	77	21.73	0.1489	19.73	0.0940	
	39	19	22.76	0.1888	20.76	0.1191	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	24.03	0.2529	22.03	0.1596
		1	77	24.07	0.2553	22.07	0.1611
		36	18	24.08	0.2559	22.08	0.1614
	QPSK DFT-s-OFDM	1	1	24.05	0.2541	22.05	0.1603
		1	77	24.01	0.2518	22.01	0.1589
		36	18	24.13	0.2588	22.13	0.1633
	16QAM DFT-s-OFDM	1	1	22.64	0.1837	20.64	0.1159
		1	77	23.11	0.2046	21.11	0.1291
		36	18	23.02	0.2004	21.02	0.1265
	64QAM DFT-s-OFDM	1	1	21.87	0.1538	19.87	0.0971
		1	77	21.66	0.1466	19.66	0.0925
		36	18	21.54	0.1426	19.54	0.0899
	256QAM DFT-s-OFDM	1	1	19.59	0.0910	17.59	0.0574
		1	77	19.62	0.0916	17.62	0.0578
		36	18	19.45	0.0881	17.45	0.0556

SA n2 (ANT3)10MHz (GT - LC = -2 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	24.15	0.2600	22.15	0.1641
		1	50	24.02	0.2523	22.02	0.1592
		25	12	24.11	0.2576	22.11	0.1626
	QPSK DFT-s-OFDM	1	1	23.93	0.2472	21.93	0.1560
		1	50	24.02	0.2523	22.02	0.1592
		25	12	24.07	0.2553	22.07	0.1611
	16QAM DFT-s-OFDM	1	1	23.12	0.2051	21.12	0.1294
		1	50	22.95	0.1972	20.95	0.1245
		25	12	23.11	0.2046	21.11	0.1291
	64QAM DFT-s-OFDM	1	1	21.40	0.1380	19.40	0.0871
		1	50	21.19	0.1315	19.19	0.0830
		25	12	21.48	0.1406	19.48	0.0887
	256QAM DFT-s-OFDM	1	1	19.75	0.0944	17.75	0.0596
		1	50	19.96	0.0991	17.96	0.0625
		25	12	19.57	0.0906	17.57	0.0571
Middle	PI/2 BPSK DFT-s-OFDM	1	1	24.13	0.2588	22.13	0.1633
		1	50	24.18	0.2618	22.18	0.1652
		25	12	24.23	0.2649	22.23	0.1671
	QPSK DFT-s-OFDM	1	1	24.10	0.2570	22.10	0.1622
		1	50	24.24	0.2655	22.24	0.1675
		25	12	24.17	0.2612	22.17	0.1648
	16QAM DFT-s-OFDM	1	1	22.59	0.1816	20.59	0.1146
		1	50	23.05	0.2018	21.05	0.1274
		25	12	23.10	0.2042	21.10	0.1288
	64QAM DFT-s-OFDM	1	1	21.53	0.1422	19.53	0.0897
		1	50	21.97	0.1574	19.97	0.0993
		25	12	21.52	0.1419	19.52	0.0895
	256QAM DFT-s-OFDM	1	1	19.55	0.0902	17.55	0.0569
		1	50	19.45	0.0881	17.45	0.0556
		25	12	19.50	0.0891	17.50	0.0562
	QPSK CP-s-OFDM	1	1	22.49	0.1774	20.49	0.1119
		1	50	22.68	0.1854	20.68	0.1169
		26	13	22.55	0.1799	20.55	0.1135
Highest	PI/2 BPSK DFT-s-OFDM	1	1	24.14	0.2594	22.14	0.1637
		1	50	24.05	0.2541	22.05	0.1603
		25	12	24.07	0.2553	22.07	0.1611
	QPSK DFT-s-OFDM	1	1	24.10	0.2570	22.10	0.1622
		1	50	24.03	0.2529	22.03	0.1596
		25	12	24.15	0.2600	22.15	0.1641
	16QAM DFT-s-OFDM	1	1	22.93	0.1963	20.93	0.1239
		1	50	23.34	0.2158	21.34	0.1361
		25	12	23.13	0.2056	21.13	0.1297
	64QAM DFT-s-OFDM	1	1	21.62	0.1452	19.62	0.0916
		1	50	21.93	0.1560	19.93	0.0984
		25	12	21.60	0.1445	19.60	0.0912
	256QAM DFT-s-OFDM	1	1	19.86	0.0968	17.86	0.0611
		1	50	19.93	0.0984	17.93	0.0621
		25	12	19.67	0.0927	17.67	0.0585

SA n2 (ANT3)5MHz (GT - LC = -2 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	24.16	0.2606	22.16	0.1644
		1	23	24.00	0.2512	22.00	0.1585
		12	6	23.98	0.2500	21.98	0.1578
	QPSK DFT-s-OFDM	1	1	24.01	0.2518	22.01	0.1589
		1	23	23.96	0.2489	21.96	0.1570
		12	6	24.03	0.2529	22.03	0.1596
	16QAM DFT-s-OFDM	1	1	23.36	0.2168	21.36	0.1368
		1	23	23.29	0.2133	21.29	0.1346
		12	6	23.03	0.2009	21.03	0.1268
	64QAM DFT-s-OFDM	1	1	21.06	0.1276	19.06	0.0805
		1	23	21.32	0.1355	19.32	0.0855
		12	6	21.48	0.1406	19.48	0.0887
	256QAM DFT-s-OFDM	1	1	18.90	0.0776	16.90	0.0490
		1	23	19.61	0.0914	17.61	0.0577
		12	6	19.54	0.0899	17.54	0.0568
Middle	PI/2 BPSK DFT-s-OFDM	1	1	23.99	0.2506	21.99	0.1581
		1	23	24.22	0.2642	22.22	0.1667
		12	6	24.11	0.2576	22.11	0.1626
	QPSK DFT-s-OFDM	1	1	24.21	0.2636	22.21	0.1663
		1	23	24.08	0.2559	22.08	0.1614
		12	6	24.17	0.2612	22.17	0.1648
	16QAM DFT-s-OFDM	1	1	22.82	0.1914	20.82	0.1208
		1	23	22.89	0.1945	20.89	0.1227
		12	6	22.88	0.1941	20.88	0.1225
	64QAM DFT-s-OFDM	1	1	21.34	0.1361	19.34	0.0859
		1	23	21.57	0.1435	19.57	0.0906
		12	6	21.42	0.1387	19.42	0.0875
	256QAM DFT-s-OFDM	1	1	19.15	0.0822	17.15	0.0519
		1	23	19.64	0.0920	17.64	0.0581
		12	6	19.34	0.0859	17.34	0.0542
QPSK CP-s-OFDM	1	1	22.37	0.1726	20.37	0.1089	
	1	23	22.19	0.1656	20.19	0.1045	
	13	6	22.44	0.1754	20.44	0.1107	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	24.03	0.2529	22.03	0.1596
		1	23	24.04	0.2535	22.04	0.1600
		12	6	24.13	0.2588	22.13	0.1633
	QPSK DFT-s-OFDM	1	1	24.07	0.2553	22.07	0.1611
		1	23	24.11	0.2576	22.11	0.1626
		12	6	24.14	0.2594	22.14	0.1637
	16QAM DFT-s-OFDM	1	1	22.94	0.1968	20.94	0.1242
		1	23	23.01	0.2000	21.01	0.1262
		12	6	22.91	0.1954	20.91	0.1233
	64QAM DFT-s-OFDM	1	1	21.44	0.1393	19.44	0.0879
		1	23	21.61	0.1449	19.61	0.0914
		12	6	21.32	0.1355	19.32	0.0855
	256QAM DFT-s-OFDM	1	1	19.56	0.0904	17.56	0.0570
		1	23	19.36	0.0863	17.36	0.0545
		12	6	19.53	0.0897	17.53	0.0566

5G NR n25_SA mode:

SA n25 (ANT3)20MHz (GT - LC = -2 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	24.25	0.2661	22.25	0.1679
		1	104	24.14	0.2594	22.14	0.1637
		50	25	24.13	0.2588	22.13	0.1633
	QPSK DFT-s-OFDM	1	1	24.22	0.2642	22.22	0.1667
		1	104	24.11	0.2576	22.11	0.1626
		50	25	24.24	0.2655	22.24	0.1675
	16QAM DFT-s-OFDM	1	1	22.99	0.1991	20.99	0.1256
		1	104	23.03	0.2009	21.03	0.1268
		50	25	23.10	0.2042	21.10	0.1288
	64QAM DFT-s-OFDM	1	1	21.79	0.1510	19.79	0.0953
		1	104	21.19	0.1315	19.19	0.0830
		50	25	21.71	0.1483	19.71	0.0935
	256QAM DFT-s-OFDM	1	1	19.52	0.0895	17.52	0.0565
		1	104	19.59	0.0910	17.59	0.0574
		50	25	19.53	0.0897	17.53	0.0566
Middle	PI/2 BPSK DFT-s-OFDM	1	1	24.25	0.2661	22.25	0.1679
		1	104	24.13	0.2588	22.13	0.1633
		50	25	24.24	0.2655	22.24	0.1675
	QPSK DFT-s-OFDM	1	1	24.33	0.2710	22.33	0.1710
		1	104	24.16	0.2606	22.16	0.1644
		50	25	24.23	0.2649	22.23	0.1671
	16QAM DFT-s-OFDM	1	1	22.90	0.1950	20.90	0.1230
		1	104	22.61	0.1824	20.61	0.1151
		50	25	22.95	0.1972	20.95	0.1245
	64QAM DFT-s-OFDM	1	1	21.69	0.1476	19.69	0.0931
		1	104	21.57	0.1435	19.57	0.0906
		50	25	21.53	0.1422	19.53	0.0897
	256QAM DFT-s-OFDM	1	1	19.75	0.0944	17.75	0.0596
		1	104	19.69	0.0931	17.69	0.0587
		50	25	19.52	0.0895	17.52	0.0565
QPSK CP-s-OFDM	1	1	22.41	0.1742	20.41	0.1099	
	1	104	22.19	0.1656	20.19	0.1045	
	53	26	22.32	0.1706	20.32	0.1076	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	24.30	0.2692	22.30	0.1698
		1	104	24.12	0.2582	22.12	0.1629
		50	25	24.22	0.2642	22.22	0.1667
	QPSK DFT-s-OFDM	1	1	24.29	0.2685	22.29	0.1694
		1	104	24.10	0.2570	22.10	0.1622
		50	25	24.26	0.2667	22.26	0.1683
	16QAM DFT-s-OFDM	1	1	23.01	0.2000	21.01	0.1262
		1	104	23.07	0.2028	21.07	0.1279
		50	25	23.05	0.2018	21.05	0.1274
	64QAM DFT-s-OFDM	1	1	21.66	0.1466	19.66	0.0925
		1	104	21.63	0.1455	19.63	0.0918
		50	25	21.64	0.1459	19.64	0.0920
	256QAM DFT-s-OFDM	1	1	19.71	0.0935	17.71	0.0590
		1	104	19.20	0.0832	17.20	0.0525
		50	25	19.58	0.0908	17.58	0.0573

SA n25 (ANT3)15MHz (GT - LC = -2 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	24.23	0.2649	22.23	0.1671
		1	77	24.16	0.2606	22.16	0.1644
		36	18	24.21	0.2636	22.21	0.1663
	QPSK DFT-s-OFDM	1	1	24.26	0.2667	22.26	0.1683
		1	77	24.23	0.2649	22.23	0.1671
		36	18	24.31	0.2698	22.31	0.1702
	16QAM DFT-s-OFDM	1	1	22.60	0.1820	20.60	0.1148
		1	77	22.60	0.1820	20.60	0.1148
		36	18	22.62	0.1828	20.62	0.1153
	64QAM DFT-s-OFDM	1	1	21.28	0.1343	19.28	0.0847
		1	77	21.31	0.1352	19.31	0.0853
		36	18	21.56	0.1432	19.56	0.0904
	256QAM DFT-s-OFDM	1	1	19.23	0.0838	17.23	0.0528
		1	77	19.22	0.0836	17.22	0.0527
		36	18	19.21	0.0834	17.21	0.0526
Middle	PI/2 BPSK DFT-s-OFDM	1	1	24.23	0.2649	22.23	0.1671
		1	77	24.21	0.2636	22.21	0.1663
		36	18	24.32	0.2704	22.32	0.1706
	QPSK DFT-s-OFDM	1	1	24.20	0.2630	22.20	0.1660
		1	77	24.18	0.2618	22.18	0.1652
		36	18	24.27	0.2673	22.27	0.1687
	16QAM DFT-s-OFDM	1	1	22.43	0.1750	20.43	0.1104
		1	77	22.65	0.1841	20.65	0.1161
		36	18	22.59	0.1816	20.59	0.1146
	64QAM DFT-s-OFDM	1	1	21.29	0.1346	19.29	0.0849
		1	77	21.36	0.1368	19.36	0.0863
		36	18	21.65	0.1462	19.65	0.0923
	256QAM DFT-s-OFDM	1	1	19.31	0.0853	17.31	0.0538
		1	77	19.30	0.0851	17.30	0.0537
		36	18	19.52	0.0895	17.52	0.0565
QPSK CP-s-OFDM	1	1	22.40	0.1738	20.40	0.1096	
	1	77	22.43	0.1750	20.43	0.1104	
	39	19	22.31	0.1702	20.31	0.1074	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	24.21	0.2636	22.21	0.1663
		1	77	24.19	0.2624	22.19	0.1656
		36	18	24.29	0.2685	22.29	0.1694
	QPSK DFT-s-OFDM	1	1	24.23	0.2649	22.23	0.1671
		1	77	24.13	0.2588	22.13	0.1633
		36	18	24.28	0.2679	22.28	0.1690
	16QAM DFT-s-OFDM	1	1	22.61	0.1824	20.61	0.1151
		1	77	22.61	0.1824	20.61	0.1151
		36	18	22.55	0.1799	20.55	0.1135
	64QAM DFT-s-OFDM	1	1	21.67	0.1469	19.67	0.0927
		1	77	21.46	0.1400	19.46	0.0883
		36	18	21.33	0.1358	19.33	0.0857
	256QAM DFT-s-OFDM	1	1	19.33	0.0857	17.33	0.0541
		1	77	19.25	0.0841	17.25	0.0531
		36	18	19.50	0.0891	17.50	0.0562

SA n25 (ANT3)10MHz (GT - LC = -2 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	24.13	0.2588	22.13	0.1633
		1	50	24.11	0.2576	22.11	0.1626
		25	12	24.12	0.2582	22.12	0.1629
	QPSK DFT-s-OFDM	1	1	24.18	0.2618	22.18	0.1652
		1	50	24.29	0.2685	22.29	0.1694
		25	12	24.19	0.2624	22.19	0.1656
	16QAM DFT-s-OFDM	1	1	22.61	0.1824	20.61	0.1151
		1	50	22.63	0.1832	20.63	0.1156
		25	12	22.61	0.1824	20.61	0.1151
	64QAM DFT-s-OFDM	1	1	21.44	0.1393	19.44	0.0879
		1	50	21.35	0.1365	19.35	0.0861
		25	12	21.79	0.1510	19.79	0.0953
	256QAM DFT-s-OFDM	1	1	19.54	0.0899	17.54	0.0568
		1	50	19.42	0.0875	17.42	0.0552
		25	12	19.24	0.0839	17.24	0.0530
Middle	PI/2 BPSK DFT-s-OFDM	1	1	24.18	0.2618	22.18	0.1652
		1	50	24.14	0.2594	22.14	0.1637
		25	12	24.21	0.2636	22.21	0.1663
	QPSK DFT-s-OFDM	1	1	24.22	0.2642	22.22	0.1667
		1	50	24.06	0.2547	22.06	0.1607
		25	12	24.27	0.2673	22.27	0.1687
	16QAM DFT-s-OFDM	1	1	22.72	0.1871	20.72	0.1180
		1	50	22.71	0.1866	20.71	0.1178
		25	12	22.61	0.1824	20.61	0.1151
	64QAM DFT-s-OFDM	1	1	21.60	0.1445	19.60	0.0912
		1	50	21.52	0.1419	19.52	0.0895
		25	12	21.82	0.1521	19.82	0.0959
	256QAM DFT-s-OFDM	1	1	19.60	0.0912	17.60	0.0575
		1	50	19.25	0.0841	17.25	0.0531
		25	12	19.30	0.0851	17.30	0.0537
QPSK CP-s-OFDM	1	1	22.12	0.1629	20.12	0.1028	
	1	50	22.25	0.1679	20.25	0.1059	
	26	13	22.26	0.1683	20.26	0.1062	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	24.17	0.2612	22.17	0.1648
		1	50	24.08	0.2559	22.08	0.1614
		25	12	24.16	0.2606	22.16	0.1644
	QPSK DFT-s-OFDM	1	1	24.15	0.2600	22.15	0.1641
		1	50	24.12	0.2582	22.12	0.1629
		25	12	24.21	0.2636	22.21	0.1663
	16QAM DFT-s-OFDM	1	1	22.73	0.1875	20.73	0.1183
		1	50	22.56	0.1803	20.56	0.1138
		25	12	22.54	0.1795	20.54	0.1132
	64QAM DFT-s-OFDM	1	1	21.71	0.1483	19.71	0.0935
		1	50	21.70	0.1479	19.70	0.0933
		25	12	21.51	0.1416	19.51	0.0893
	256QAM DFT-s-OFDM	1	1	19.27	0.0845	17.27	0.0533
		1	50	19.35	0.0861	17.35	0.0543
		25	12	19.42	0.0875	17.42	0.0552

SA n25 (ANT3)5MHz (GT - LC = -2 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	24.02	0.2523	22.02	0.1592
		1	23	24.05	0.2541	22.05	0.1603
		12	6	24.16	0.2606	22.16	0.1644
	QPSK DFT-s-OFDM	1	1	24.06	0.2547	22.06	0.1607
		1	23	24.14	0.2594	22.14	0.1637
		12	6	24.13	0.2588	22.13	0.1633
	16QAM DFT-s-OFDM	1	1	22.75	0.1884	20.75	0.1189
		1	23	22.67	0.1849	20.67	0.1167
		12	6	22.60	0.1820	20.60	0.1148
	64QAM DFT-s-OFDM	1	1	21.80	0.1514	19.80	0.0955
		1	23	21.77	0.1503	19.77	0.0948
		12	6	21.51	0.1416	19.51	0.0893
	256QAM DFT-s-OFDM	1	1	19.25	0.0841	17.25	0.0531
		1	23	19.44	0.0879	17.44	0.0555
		12	6	19.27	0.0845	17.27	0.0533
Middle	PI/2 BPSK DFT-s-OFDM	1	1	24.15	0.2600	22.15	0.1641
		1	23	24.18	0.2618	22.18	0.1652
		12	6	24.22	0.2642	22.22	0.1667
	QPSK DFT-s-OFDM	1	1	24.23	0.2649	22.23	0.1671
		1	23	24.17	0.2612	22.17	0.1648
		12	6	24.25	0.2661	22.25	0.1679
	16QAM DFT-s-OFDM	1	1	22.68	0.1854	20.68	0.1169
		1	23	22.70	0.1862	20.70	0.1175
		12	6	22.57	0.1807	20.57	0.1140
	64QAM DFT-s-OFDM	1	1	21.27	0.1340	19.27	0.0845
		1	23	21.57	0.1435	19.57	0.0906
		12	6	21.69	0.1476	19.69	0.0931
	256QAM DFT-s-OFDM	1	1	19.20	0.0832	17.20	0.0525
		1	23	19.26	0.0843	17.26	0.0532
		12	6	19.43	0.0877	17.43	0.0553
QPSK CP-s-OFDM	1	1	22.30	0.1698	20.30	0.1072	
	1	23	22.32	0.1706	20.32	0.1076	
	13	6	22.24	0.1675	20.24	0.1057	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	24.19	0.2624	22.19	0.1656
		1	23	24.09	0.2564	22.09	0.1618
		12	6	24.17	0.2612	22.17	0.1648
	QPSK DFT-s-OFDM	1	1	24.16	0.2606	22.16	0.1644
		1	23	24.11	0.2576	22.11	0.1626
		12	6	24.12	0.2582	22.12	0.1629
	16QAM DFT-s-OFDM	1	1	22.39	0.1734	20.39	0.1094
		1	23	22.61	0.1824	20.61	0.1151
		12	6	22.61	0.1824	20.61	0.1151
	64QAM DFT-s-OFDM	1	1	21.61	0.1449	19.61	0.0914
		1	23	21.84	0.1528	19.84	0.0964
		12	6	21.57	0.1435	19.57	0.0906
	256QAM DFT-s-OFDM	1	1	19.22	0.0836	17.22	0.0527
		1	23	19.33	0.0857	17.33	0.0541
		12	6	19.29	0.0849	17.29	0.0536

5G NR n66_SA mode:

SA n66 (ANT3)20MHz (GT - LC = -2 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	24.45	0.2786	22.45	0.1758
		1	104	24.26	0.2667	22.26	0.1683
		50	25	24.29	0.2685	22.29	0.1694
	QPSK DFT-s-OFDM	1	1	24.31	0.2698	22.31	0.1702
		1	104	24.19	0.2624	22.19	0.1656
		50	25	24.24	0.2655	22.24	0.1675
	16QAM DFT-s-OFDM	1	1	22.86	0.1932	20.86	0.1219
		1	104	23.04	0.2014	21.04	0.1271
		50	25	22.55	0.1799	20.55	0.1135
	64QAM DFT-s-OFDM	1	1	21.62	0.1452	19.62	0.0916
		1	104	21.30	0.1349	19.30	0.0851
		50	25	21.27	0.1340	19.27	0.0845
	256QAM DFT-s-OFDM	1	1	19.37	0.0865	17.37	0.0546
		1	104	19.66	0.0925	17.66	0.0583
		50	25	19.46	0.0883	17.46	0.0557
Middle	PI/2 BPSK DFT-s-OFDM	1	1	24.23	0.2649	22.23	0.1671
		1	104	23.95	0.2483	21.95	0.1567
		50	25	24.21	0.2636	22.21	0.1663
	QPSK DFT-s-OFDM	1	1	24.22	0.2642	22.22	0.1667
		1	104	23.42	0.2198	21.42	0.1387
		50	25	24.23	0.2649	22.23	0.1671
	16QAM DFT-s-OFDM	1	1	23.09	0.2037	21.09	0.1285
		1	104	22.77	0.1892	20.77	0.1194
		50	25	22.59	0.1816	20.59	0.1146
	64QAM DFT-s-OFDM	1	1	21.64	0.1459	19.64	0.0920
		1	104	21.46	0.1400	19.46	0.0883
		50	25	21.48	0.1406	19.48	0.0887
	256QAM DFT-s-OFDM	1	1	19.64	0.0920	17.64	0.0581
		1	104	19.55	0.0902	17.55	0.0569
		50	25	19.24	0.0839	17.24	0.0530
QPSK CP-s-OFDM	1	1	22.91	0.1954	20.91	0.1233	
	1	104	23.18	0.2080	21.18	0.1312	
	53	26	22.92	0.1959	20.92	0.1236	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	24.25	0.2661	22.25	0.1679
		1	104	23.78	0.2388	21.78	0.1507
		50	25	24.24	0.2655	22.24	0.1675
	QPSK DFT-s-OFDM	1	1	24.32	0.2704	22.32	0.1706
		1	104	23.24	0.2109	21.24	0.1330
		50	25	24.22	0.2642	22.22	0.1667
	16QAM DFT-s-OFDM	1	1	22.94	0.1968	20.94	0.1242
		1	104	22.77	0.1892	20.77	0.1194
		50	25	22.66	0.1845	20.66	0.1164
	64QAM DFT-s-OFDM	1	1	21.39	0.1377	19.39	0.0869
		1	104	21.52	0.1419	19.52	0.0895
		50	25	21.36	0.1368	19.36	0.0863
	256QAM DFT-s-OFDM	1	1	19.62	0.0916	17.62	0.0578
		1	104	19.67	0.0927	17.67	0.0585
		50	25	19.54	0.0899	17.54	0.0568

SA n66 (ANT3)15MHz (GT - LC = -2 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	24.32	0.2704	22.32	0.1706
		1	77	24.28	0.2679	22.28	0.1690
		36	18	24.35	0.2723	22.35	0.1718
	QPSK DFT-s-OFDM	1	1	24.37	0.2735	22.37	0.1726
		1	77	24.21	0.2636	22.21	0.1663
		36	18	24.33	0.2710	22.33	0.1710
	16QAM DFT-s-OFDM	1	1	22.96	0.1977	20.96	0.1247
		1	77	22.66	0.1845	20.66	0.1164
		36	18	22.89	0.1945	20.89	0.1227
	64QAM DFT-s-OFDM	1	1	21.60	0.1445	19.60	0.0912
		1	77	21.39	0.1377	19.39	0.0869
		36	18	21.60	0.1445	19.60	0.0912
	256QAM DFT-s-OFDM	1	1	19.28	0.0847	17.28	0.0535
		1	77	19.16	0.0824	17.16	0.0520
		36	18	19.60	0.0912	17.60	0.0575
Middle	PI/2 BPSK DFT-s-OFDM	1	1	24.27	0.2673	22.27	0.1687
		1	77	24.21	0.2636	22.21	0.1663
		36	18	24.26	0.2667	22.26	0.1683
	QPSK DFT-s-OFDM	1	1	24.18	0.2618	22.18	0.1652
		1	77	24.29	0.2685	22.29	0.1694
		36	18	24.26	0.2667	22.26	0.1683
	16QAM DFT-s-OFDM	1	1	22.75	0.1884	20.75	0.1189
		1	77	22.70	0.1862	20.70	0.1175
		36	18	22.93	0.1963	20.93	0.1239
	64QAM DFT-s-OFDM	1	1	21.56	0.1432	19.56	0.0904
		1	77	21.50	0.1413	19.50	0.0891
		36	18	21.42	0.1387	19.42	0.0875
	256QAM DFT-s-OFDM	1	1	19.30	0.0851	17.30	0.0537
		1	77	19.18	0.0828	17.18	0.0522
		36	18	19.68	0.0929	17.68	0.0586
QPSK CP-s-OFDM	1	1	23.03	0.2009	21.03	0.1268	
	1	77	22.91	0.1954	20.91	0.1233	
	39	19	22.84	0.1923	20.84	0.1213	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	24.26	0.2667	22.26	0.1683
		1	77	24.11	0.2576	22.11	0.1626
		36	18	24.17	0.2612	22.17	0.1648
	QPSK DFT-s-OFDM	1	1	24.20	0.2630	22.20	0.1660
		1	77	24.23	0.2649	22.23	0.1671
		36	18	24.21	0.2636	22.21	0.1663
	16QAM DFT-s-OFDM	1	1	23.01	0.2000	21.01	0.1262
		1	77	22.71	0.1866	20.71	0.1178
		36	18	22.73	0.1875	20.73	0.1183
	64QAM DFT-s-OFDM	1	1	21.75	0.1496	19.75	0.0944
		1	77	21.41	0.1384	19.41	0.0873
		36	18	21.45	0.1396	19.45	0.0881
	256QAM DFT-s-OFDM	1	1	19.73	0.0940	17.73	0.0593
		1	77	19.76	0.0946	17.76	0.0597
		36	18	19.26	0.0843	17.26	0.0532

SA n66 (ANT3)10MHz (GT - LC = -2 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	24.35	0.2723	22.35	0.1718
		1	50	24.29	0.2685	22.29	0.1694
		25	12	24.42	0.2767	22.42	0.1746
	QPSK DFT-s-OFDM	1	1	24.36	0.2729	22.36	0.1722
		1	50	24.34	0.2716	22.34	0.1714
		25	12	24.39	0.2748	22.39	0.1734
	16QAM DFT-s-OFDM	1	1	23.03	0.2009	21.03	0.1268
		1	50	22.85	0.1928	20.85	0.1216
		25	12	22.65	0.1841	20.65	0.1161
	64QAM DFT-s-OFDM	1	1	21.71	0.1483	19.71	0.0935
		1	50	21.63	0.1455	19.63	0.0918
		25	12	21.71	0.1483	19.71	0.0935
	256QAM DFT-s-OFDM	1	1	19.48	0.0887	17.48	0.0560
		1	50	19.09	0.0811	17.09	0.0512
		25	12	19.61	0.0914	17.61	0.0577
Middle	PI/2 BPSK DFT-s-OFDM	1	1	23.90	0.2455	21.90	0.1549
		1	50	24.25	0.2661	22.25	0.1679
		25	12	24.31	0.2698	22.31	0.1702
	QPSK DFT-s-OFDM	1	1	23.33	0.2153	21.33	0.1358
		1	50	24.27	0.2673	22.27	0.1687
		25	12	24.25	0.2661	22.25	0.1679
	16QAM DFT-s-OFDM	1	1	23.03	0.2009	21.03	0.1268
		1	50	22.53	0.1791	20.53	0.1130
		25	12	22.71	0.1866	20.71	0.1178
	64QAM DFT-s-OFDM	1	1	21.73	0.1489	19.73	0.0940
		1	50	21.63	0.1455	19.63	0.0918
		25	12	21.48	0.1406	19.48	0.0887
	256QAM DFT-s-OFDM	1	1	19.60	0.0912	17.60	0.0575
		1	50	19.37	0.0865	17.37	0.0546
		25	12	19.66	0.0925	17.66	0.0583
QPSK CP-s-OFDM	1	1	22.81	0.1910	20.81	0.1205	
	1	50	23.20	0.2089	21.20	0.1318	
	26	13	23.13	0.2056	21.13	0.1297	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	24.32	0.2704	22.32	0.1706
		1	50	24.17	0.2612	22.17	0.1648
		25	12	24.31	0.2698	22.31	0.1702
	QPSK DFT-s-OFDM	1	1	24.30	0.2692	22.30	0.1698
		1	50	24.18	0.2618	22.18	0.1652
		25	12	24.29	0.2685	22.29	0.1694
	16QAM DFT-s-OFDM	1	1	22.94	0.1968	20.94	0.1242
		1	50	22.84	0.1923	20.84	0.1213
		25	12	22.72	0.1871	20.72	0.1180
	64QAM DFT-s-OFDM	1	1	21.31	0.1352	19.31	0.0853
		1	50	21.60	0.1445	19.60	0.0912
		25	12	21.61	0.1449	19.61	0.0914
	256QAM DFT-s-OFDM	1	1	19.44	0.0879	17.44	0.0555
		1	50	19.20	0.0832	17.20	0.0525
		25	12	19.52	0.0895	17.52	0.0565

SA n66 (ANT3)5MHz (GT - LC = -2 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power(dBm)	Power(Watts)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	24.32	0.2704	22.32	0.1706
		1	23	24.31	0.2698	22.31	0.1702
		12	6	24.30	0.2692	22.30	0.1698
	QPSK DFT-s-OFDM	1	1	24.35	0.2723	22.35	0.1718
		1	23	24.21	0.2636	22.21	0.1663
		12	6	24.26	0.2667	22.26	0.1683
	16QAM DFT-s-OFDM	1	1	22.79	0.1901	20.79	0.1199
		1	23	22.98	0.1986	20.98	0.1253
		12	6	22.63	0.1832	20.63	0.1156
	64QAM DFT-s-OFDM	1	1	21.37	0.1371	19.37	0.0865
		1	23	21.29	0.1346	19.29	0.0849
		12	6	21.68	0.1472	19.68	0.0929
	256QAM DFT-s-OFDM	1	1	19.20	0.0832	17.20	0.0525
		1	23	19.74	0.0942	17.74	0.0594
		12	6	19.45	0.0881	17.45	0.0556
Middle	PI/2 BPSK DFT-s-OFDM	1	1	24.16	0.2606	22.16	0.1644
		1	23	24.29	0.2685	22.29	0.1694
		12	6	24.22	0.2642	22.22	0.1667
	QPSK DFT-s-OFDM	1	1	24.23	0.2649	22.23	0.1671
		1	23	24.24	0.2655	22.24	0.1675
		12	6	24.27	0.2673	22.27	0.1687
	16QAM DFT-s-OFDM	1	1	22.75	0.1884	20.75	0.1189
		1	23	22.69	0.1858	20.69	0.1172
		12	6	22.78	0.1897	20.78	0.1197
	64QAM DFT-s-OFDM	1	1	21.78	0.1507	19.78	0.0951
		1	23	21.59	0.1442	19.59	0.0910
		12	6	21.43	0.1390	19.43	0.0877
	256QAM DFT-s-OFDM	1	1	19.49	0.0889	17.49	0.0561
		1	23	19.84	0.0964	17.84	0.0608
		12	6	19.37	0.0865	17.37	0.0546
QPSK CP-s-OFDM	1	1	23.24	0.2109	21.24	0.1330	
	1	23	23.11	0.2046	21.11	0.1291	
	13	6	23.03	0.2009	21.03	0.1268	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	24.15	0.2600	22.15	0.1641
		1	23	24.08	0.2559	22.08	0.1614
		12	6	24.17	0.2612	22.17	0.1648
	QPSK DFT-s-OFDM	1	1	24.07	0.2553	22.07	0.1611
		1	23	24.14	0.2594	22.14	0.1637
		12	6	24.18	0.2618	22.18	0.1652
	16QAM DFT-s-OFDM	1	1	23.00	0.1995	21.00	0.1259
		1	23	22.83	0.1919	20.83	0.1211
		12	6	22.69	0.1858	20.69	0.1172
	64QAM DFT-s-OFDM	1	1	21.28	0.1343	19.28	0.0847
		1	23	21.50	0.1413	19.50	0.0891
		12	6	21.52	0.1419	19.52	0.0895
	256QAM DFT-s-OFDM	1	1	19.19	0.0830	17.19	0.0524
		1	23	19.78	0.0951	17.78	0.0600
		12	6	19.48	0.0887	17.48	0.0560



5G NR n2

NSA

Peak-to-Average Ratio

Mode	FR1 n2+5A / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	PI/2 BPSK	QPSK	QPSK	Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.00	3.36	5.83	5.04	PASS
Middle CH	3.88	3.57	5.42	5.04	
Highest CH	3.80	3.71	5.74	5.07	



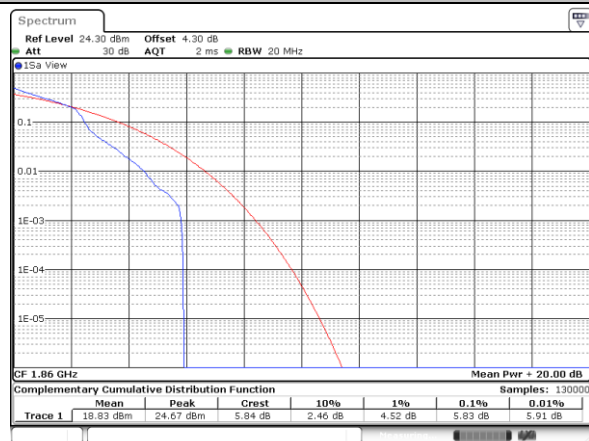
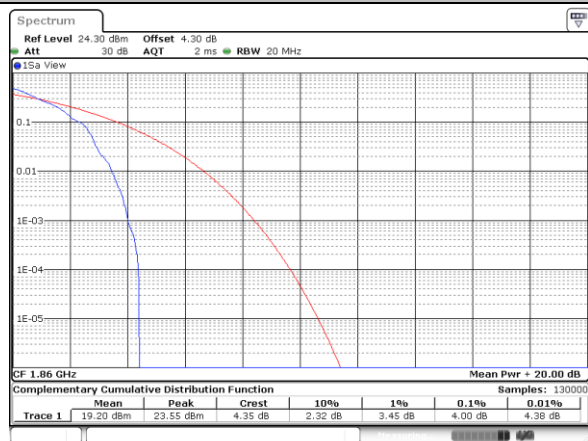
FR1 n2+5A / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

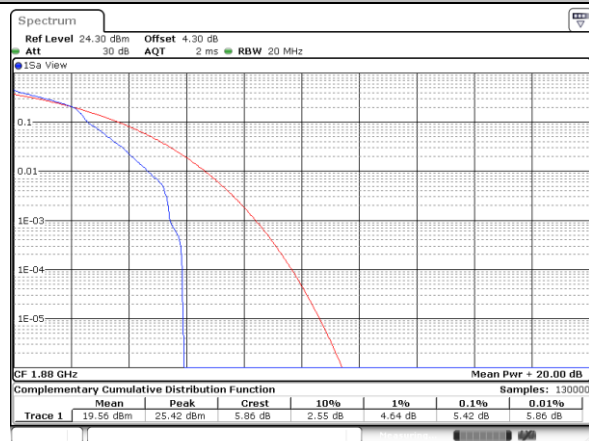
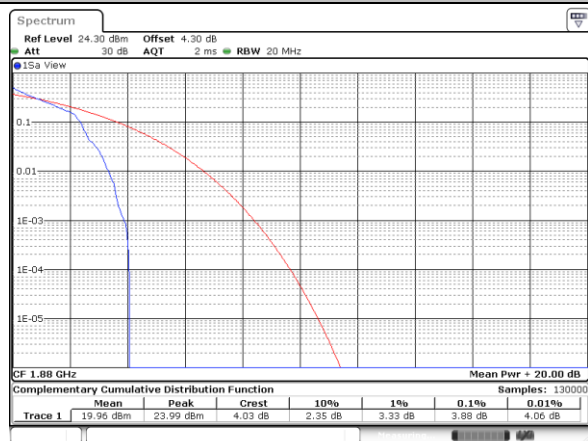
Lowest Channel / 1RB

Lowest Channel / 1RB



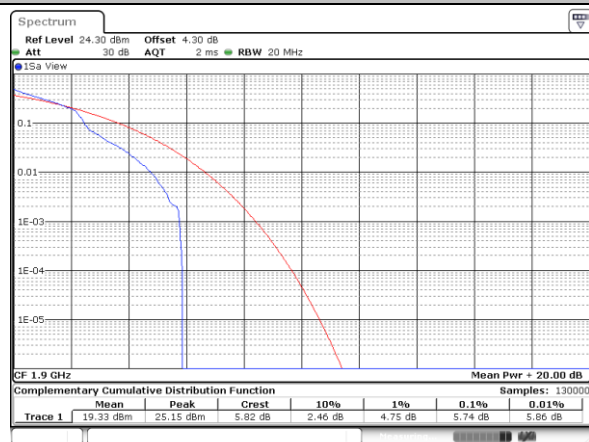
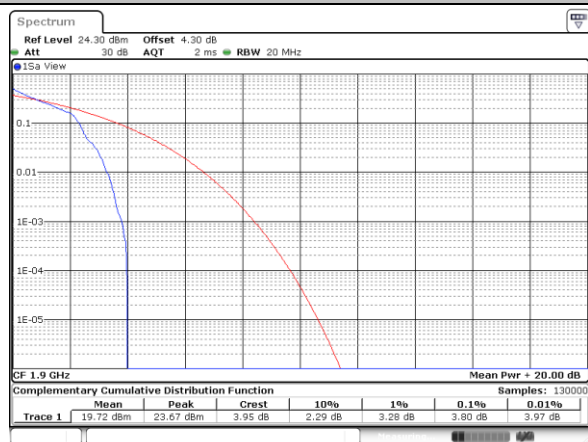
Middle Channel / 1 RB

Middle Channel / 1 RB



Highest Channel / 1 RB

Highest Channel / 1 RB





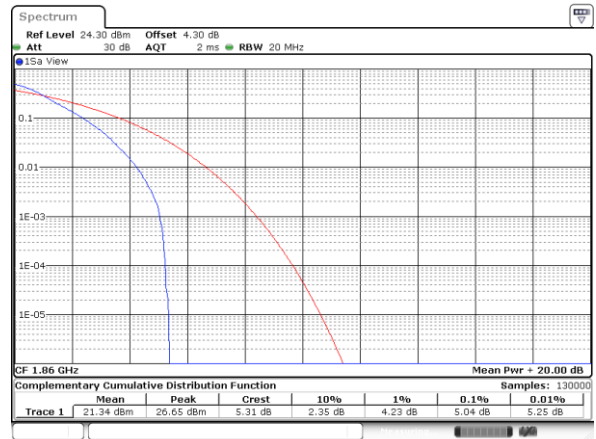
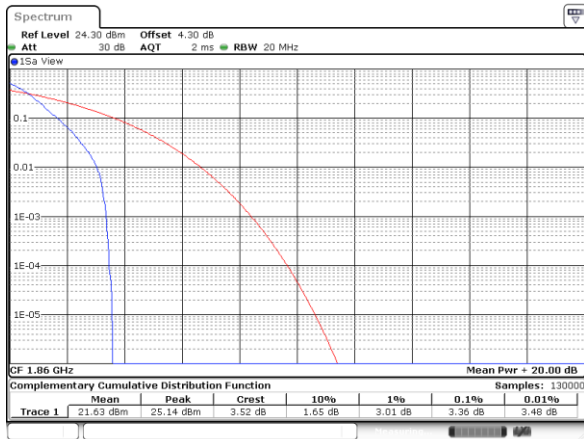
FR1 n2+5A / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

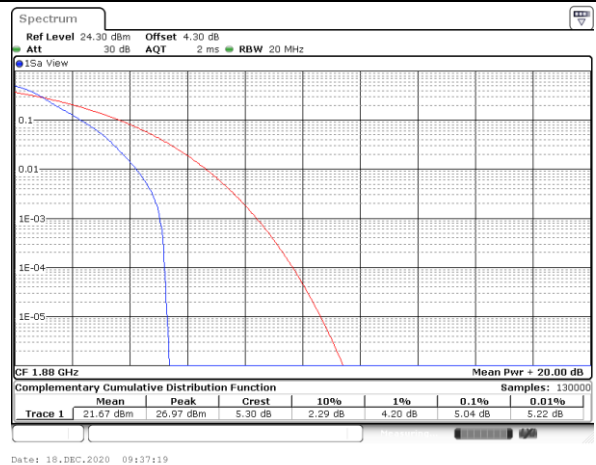
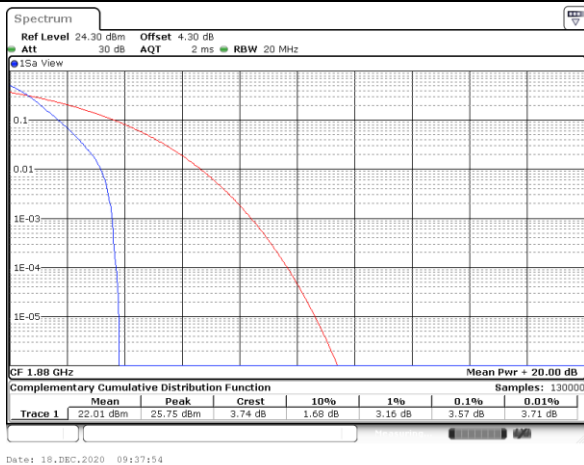
Lowest Channel / Full RB

Lowest Channel / Full RB



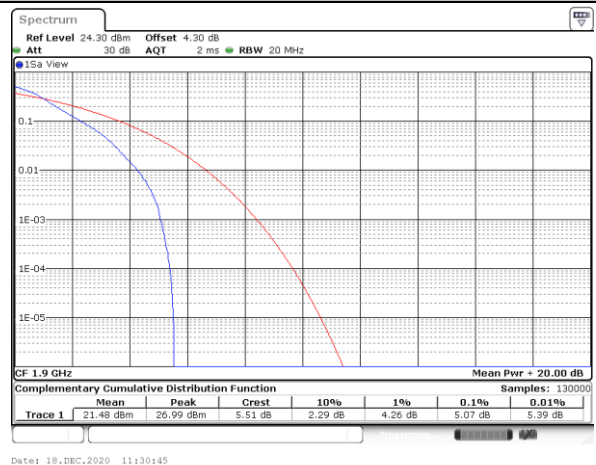
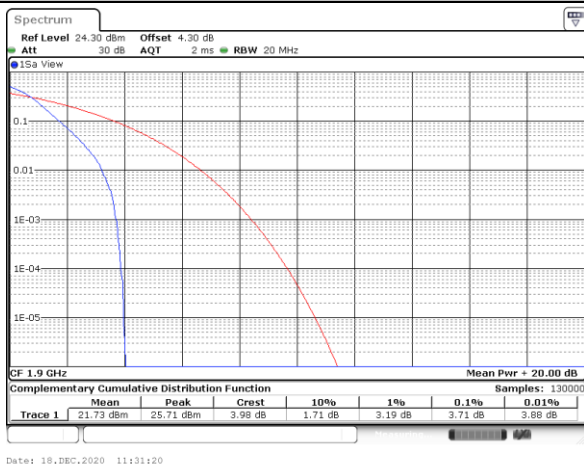
Middle Channel / Full RB

Middle Channel / Full RB



Highest Channel / Full RB

Highest Channel / Full RB



**26dB Bandwidth**

Mode	FR1 n2+5A : 26dB BW(MHz) / CP-OFDM							
BW	5MHz	5MHz	5MHz	5MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	4.96	4.96	4.97	4.91				

Mode	FR1 n2+5A : 26dB BW(MHz) / CP-OFDM							
BW	10MHz	10MHz	10MHz	10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	9.95	9.87	9.77	9.77				

Mode	FR1 n2+5A : 26dB BW(MHz) / CP-OFDM							
BW	15MHz	15MHz	15MHz	15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	14.98	14.89	14.95	15.04				

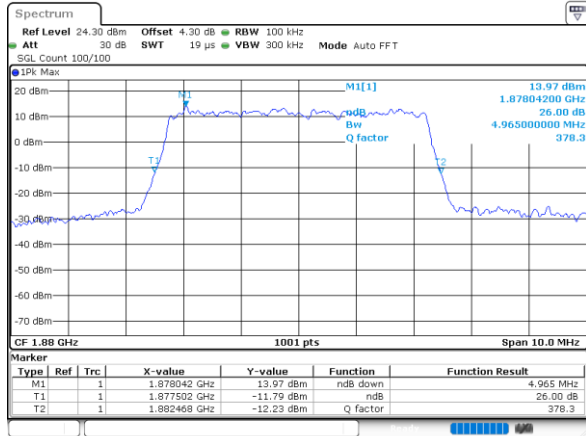
Mode	FR1 n2+5A : 26dB BW(MHz) / CP-OFDM							
BW	20MHz	20MHz	20MHz	20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	19.82	19.86	19.82	19.9				



FR1 n2+5A / 5MHz / CP-OFDM

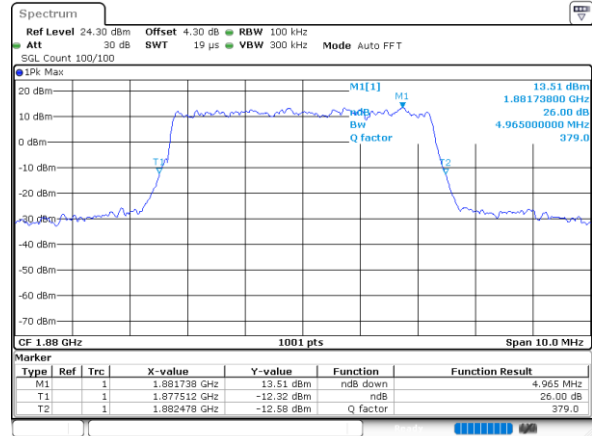
QPSK

Middle Channel



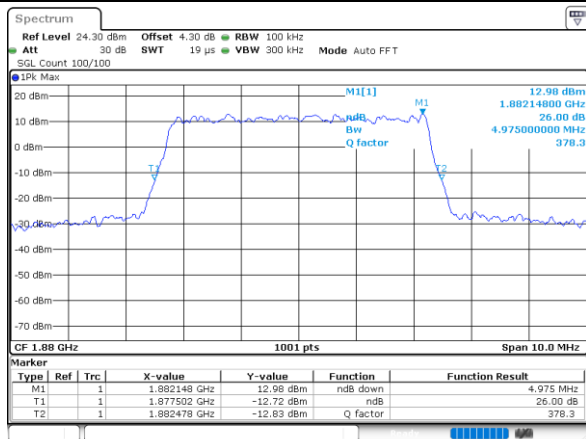
16QAM

Middle Channel



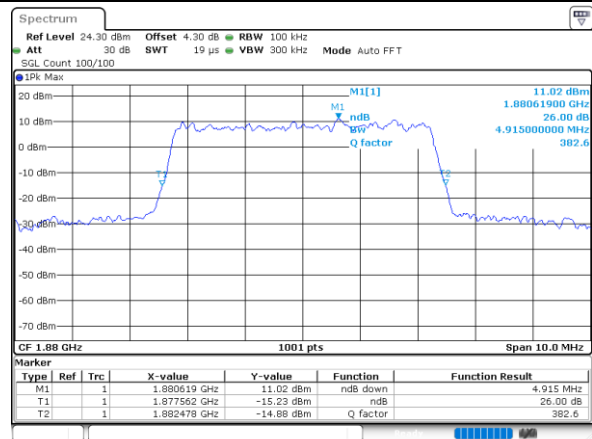
64QAM

Middle Channel



256QAM

Middle Channel

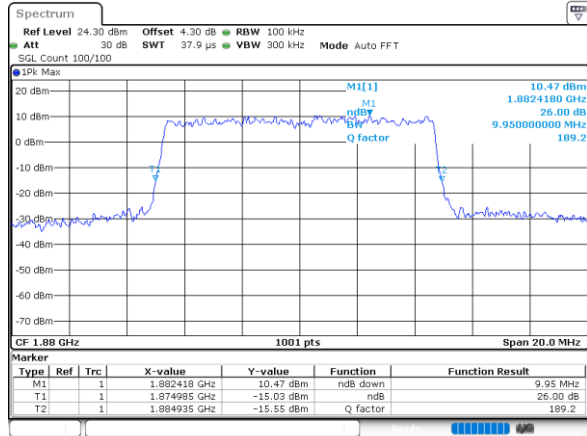




FR1 n2+5A / 10MHz / CP-OFDM

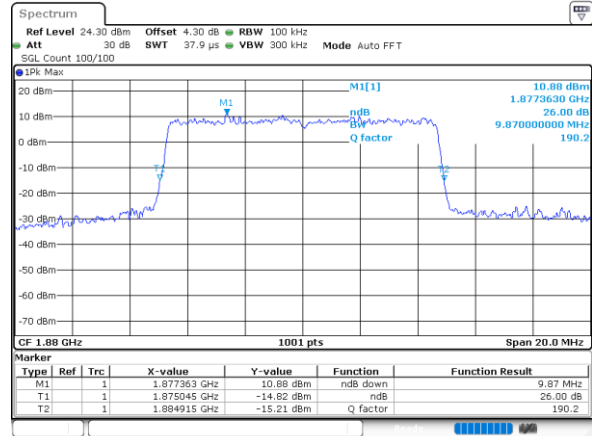
QPSK

Middle Channel



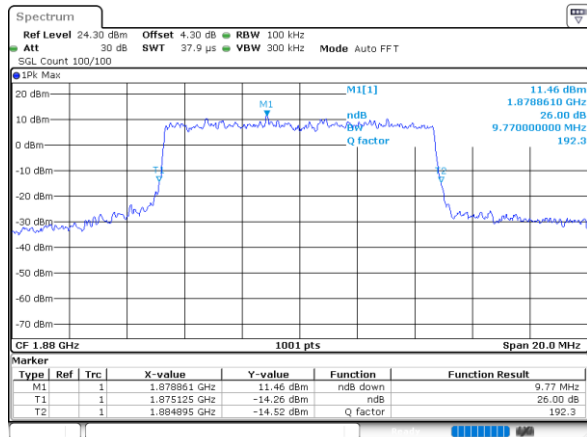
16QAM

Middle Channel



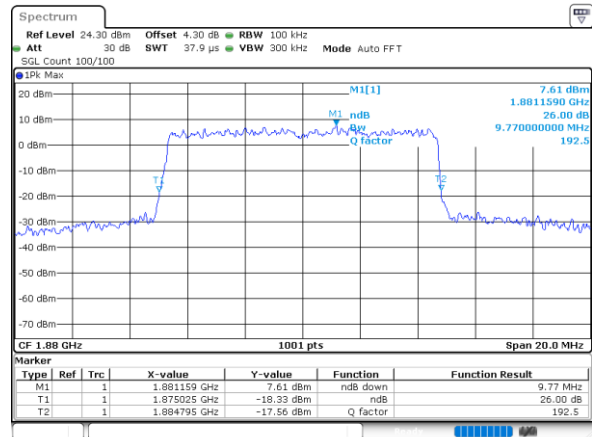
64QAM

Middle Channel



256QAM

Middle Channel

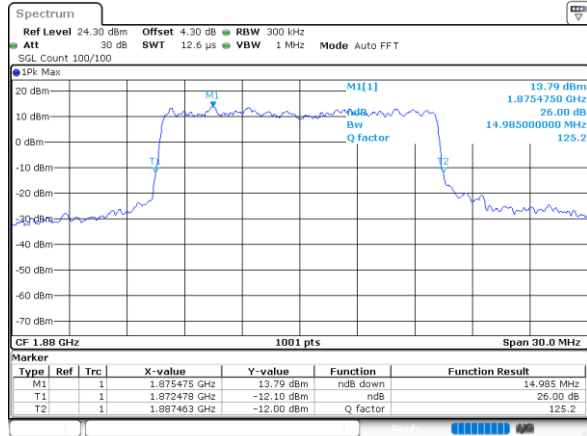




FR1 n2+5A / 15MHz / CP-OFDM

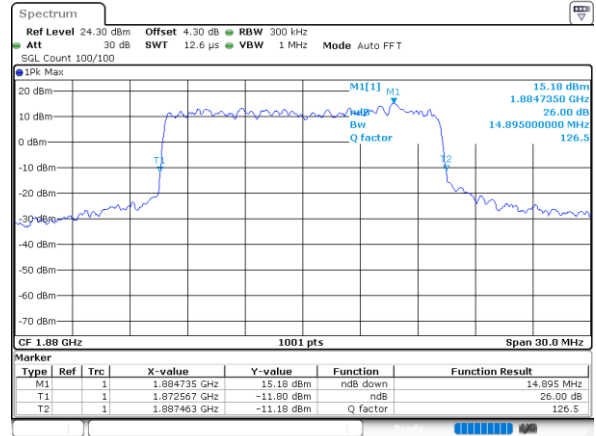
QPSK

Middle Channel



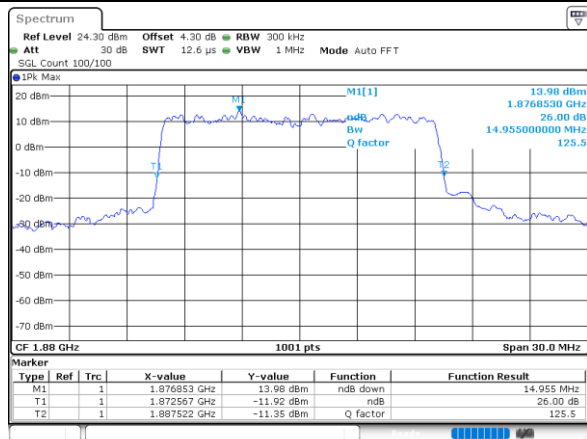
16QAM

Middle Channel



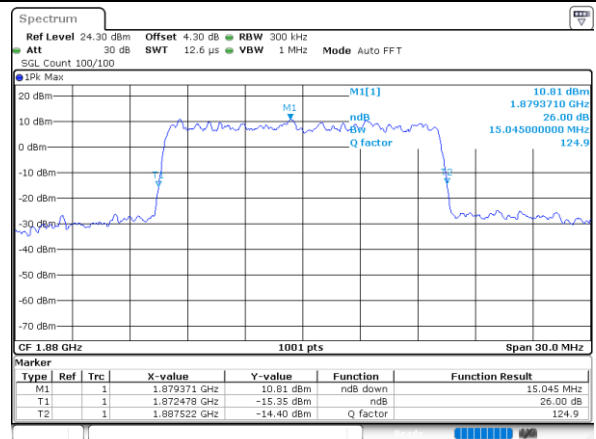
64QAM

Middle Channel



256QAM

Middle Channel

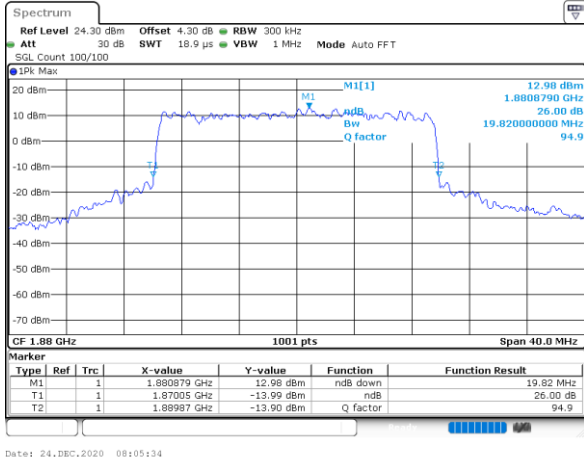




FR1 n2+5A / 20MHz / CP-OFDM

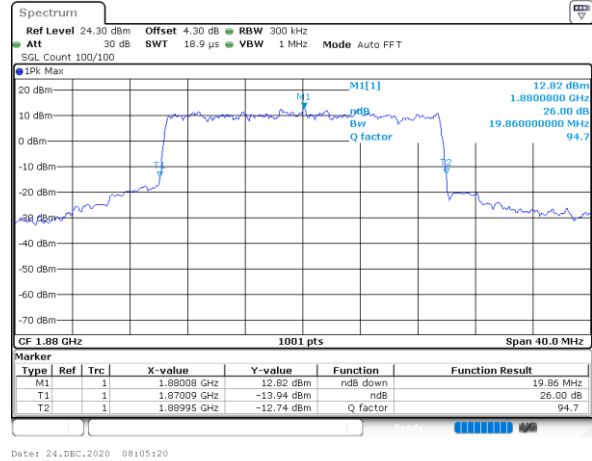
QPSK

Middle Channel



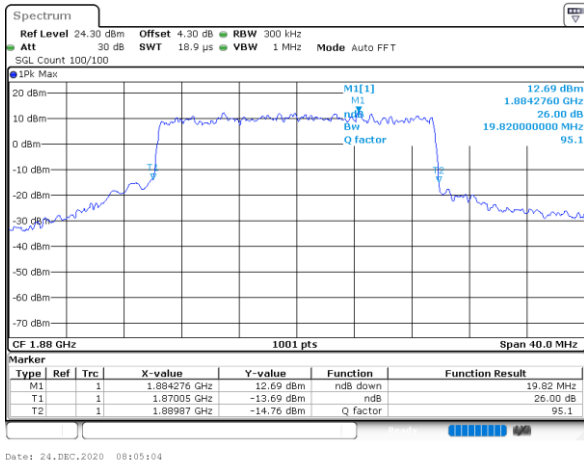
16QAM

Middle Channel



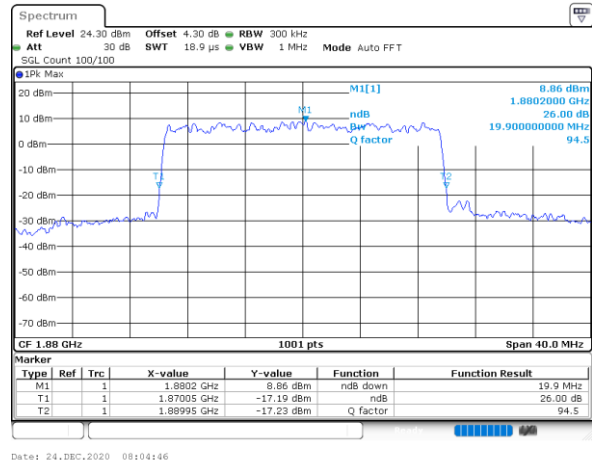
64QAM

Middle Channel



256QAM

Middle Channel



**Occupied Bandwidth**

Mode	FR1 n2+5A : OBW(MHz) / CP-OFDM							
BW	5MHz	5MHz	5MHz	5MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	4.46	4.46	4.48	4.49				

Mode	FR1 n2+5A : OBW(MHz) / CP-OFDM							
BW	10MHz	10MHz	10MHz	10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	9.27	9.29	9.27	9.25				

Mode	FR1 n2+5A : OBW(MHz) / CP-OFDM							
BW	15MHz	15MHz	15MHz	15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	14.14	14.14	14.11	14.11				

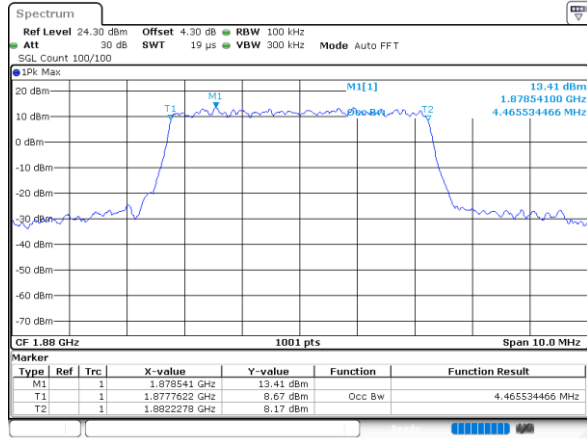
Mode	FR1 n2+5A : OBW(MHz) / CP-OFDM							
BW	20MHz	20MHz	20MHz	20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	18.90	18.94	18.94	18.94				



FR1 n2+5A / 5MHz / CP-OFDM

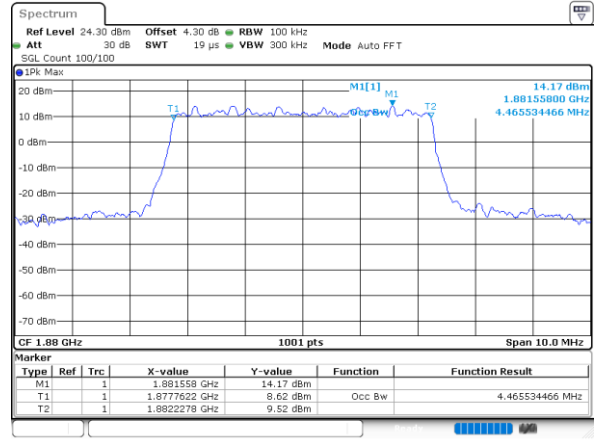
QPSK

Middle Channel



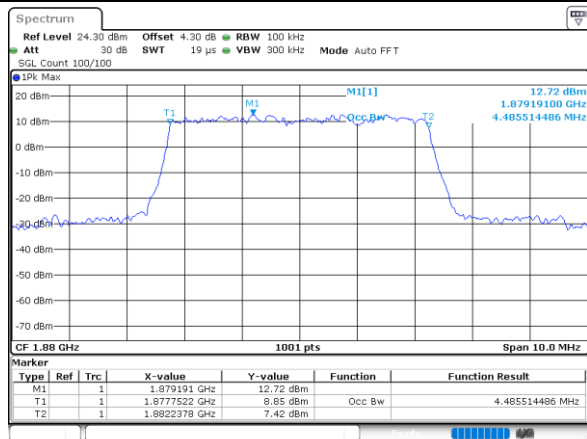
16QAM

Middle Channel



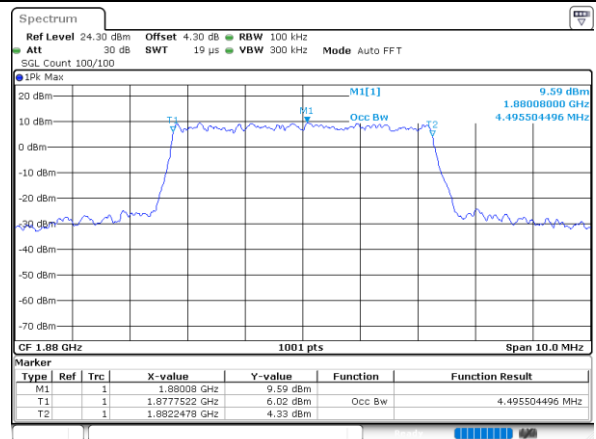
64QAM

Middle Channel



256QAM

Middle Channel

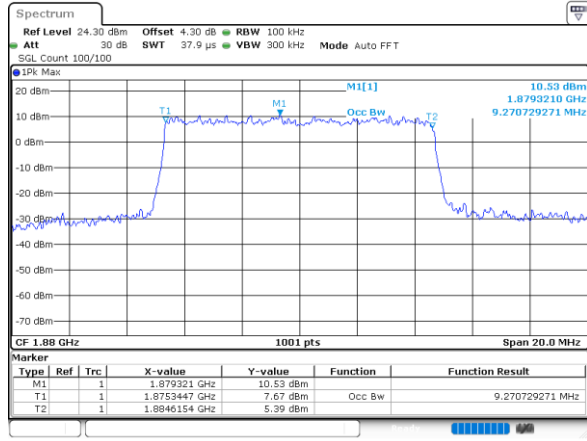




FR1 n2+5A / 10MHz / CP-OFDM

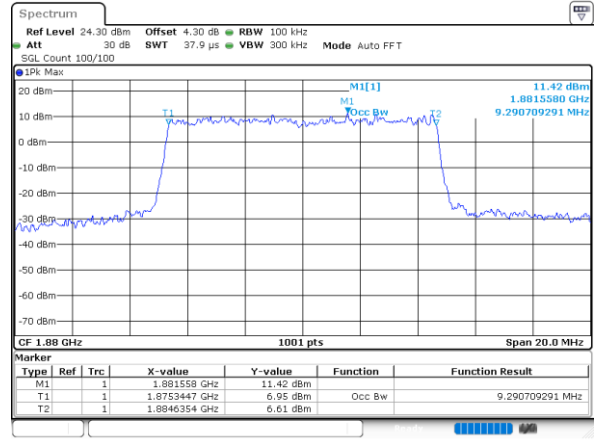
QPSK

Middle Channel



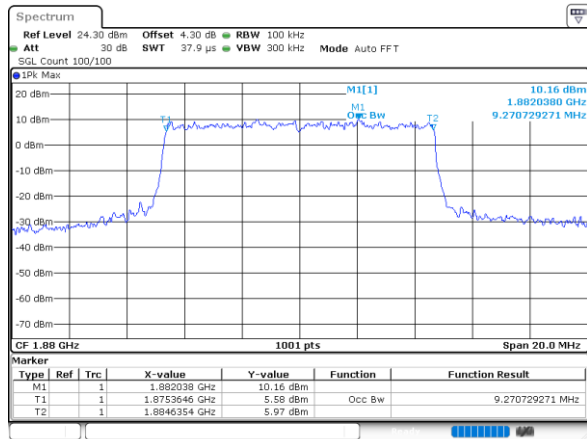
16QAM

Middle Channel



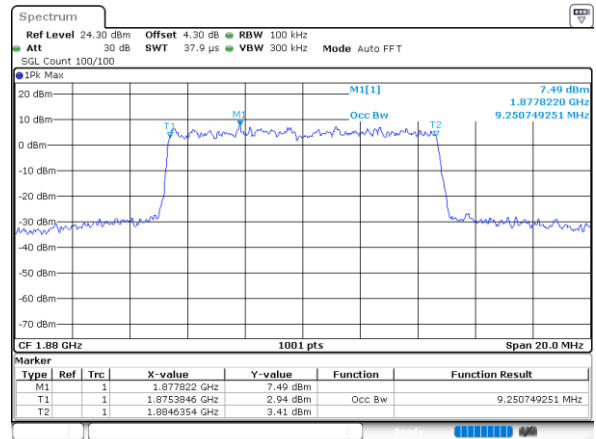
64QAM

Middle Channel



256QAM

Middle Channel

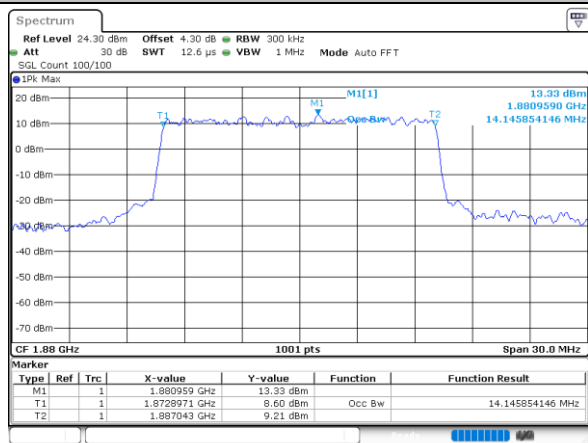




FR1 n2+5A / 15MHz / CP-OFDM

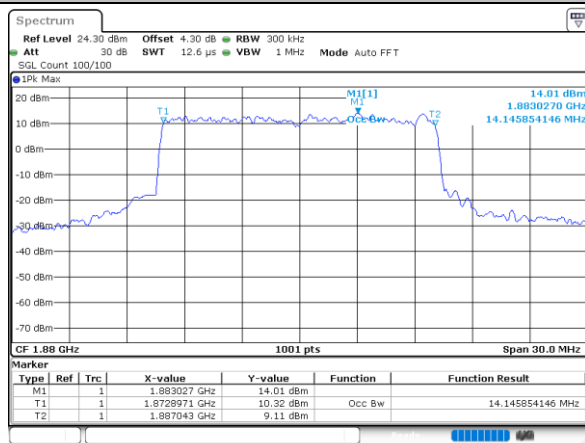
QPSK

Middle Channel



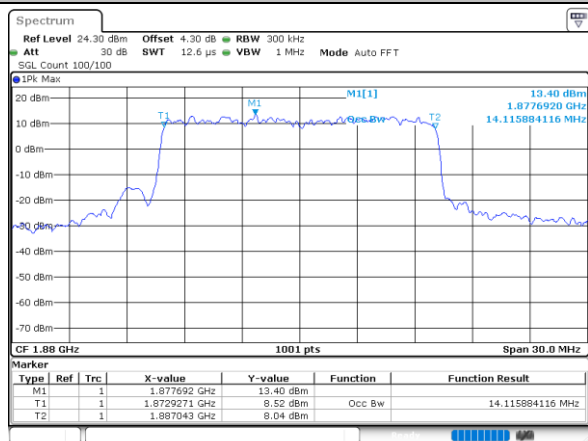
16QAM

Middle Channel



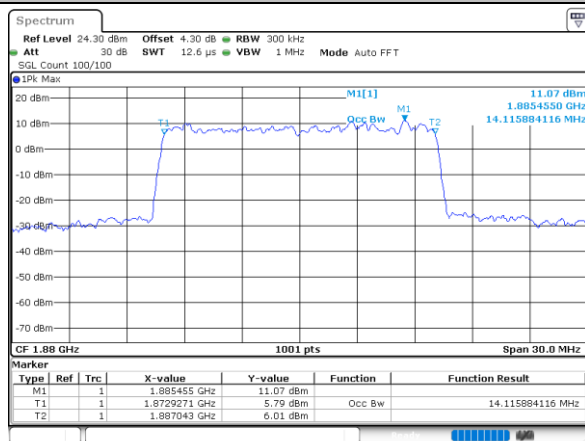
64QAM

Middle Channel



256QAM

Middle Channel

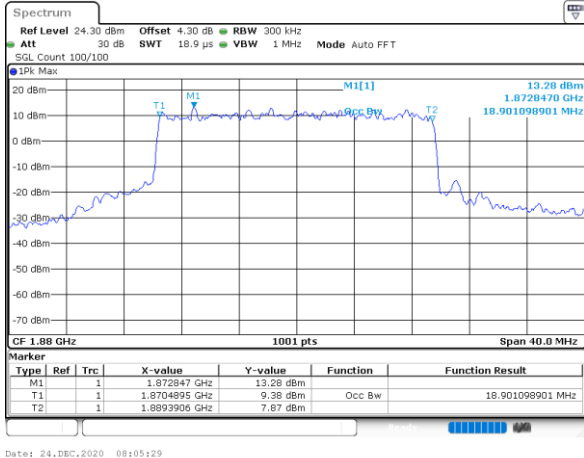




FR1 n2+5A / 20MHz / CP-OFDM

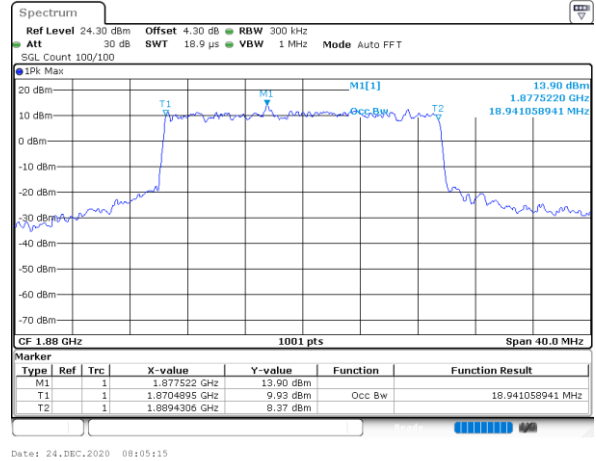
QPSK

Middle Channel



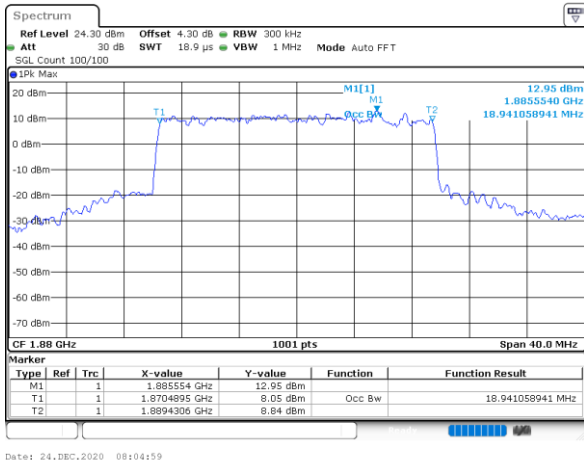
16QAM

Middle Channel



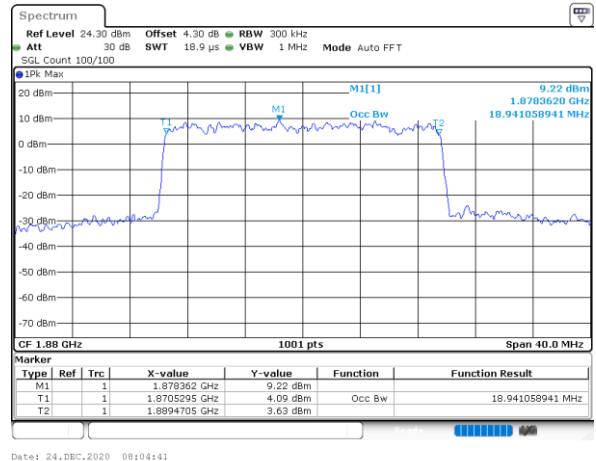
64QAM

Middle Channel



256QAM

Middle Channel



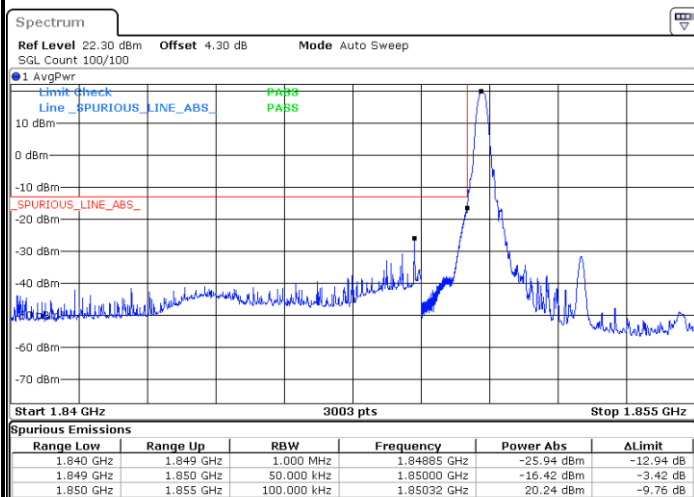


Conducted Band Edge

FR1 n2+5A / 5MHz / DFT-S OFDM BPSK

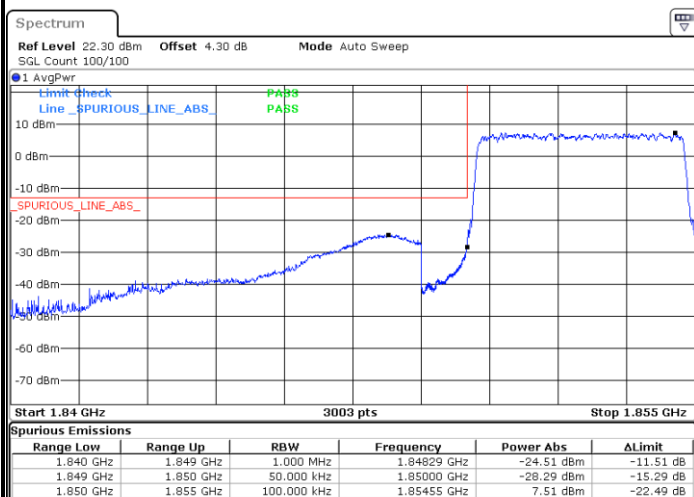
Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



Lowest Band Edge / Full RB

Channel Power < -13dBm Pass

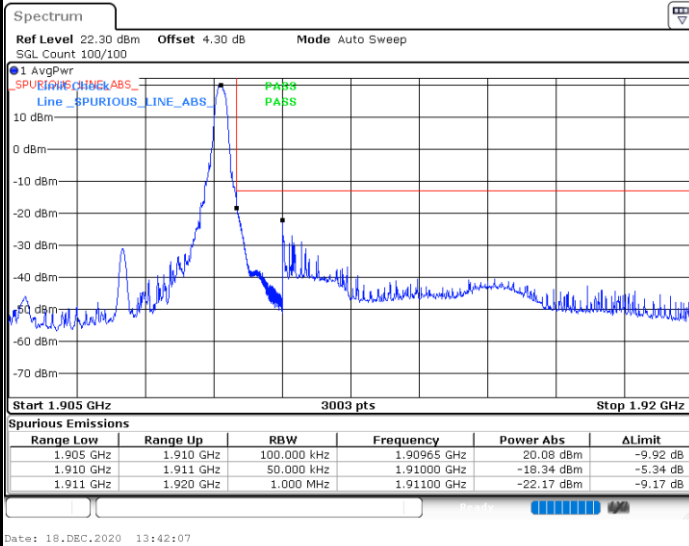




FR1 n2+5A / 5MHz / DFT-S OFDM BPSK

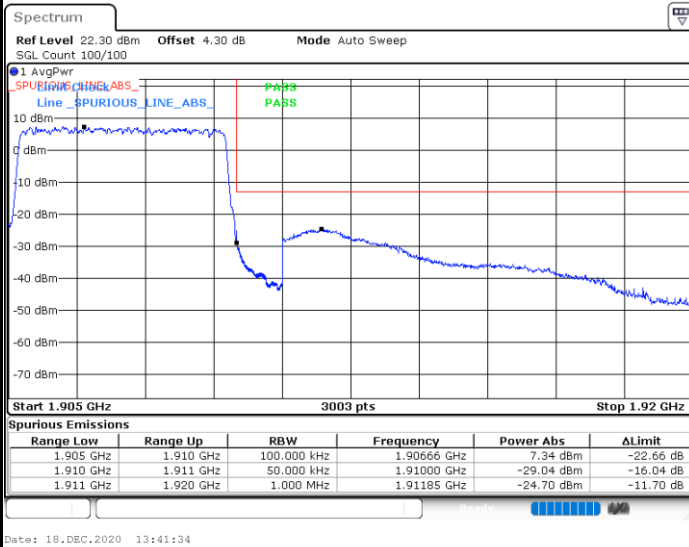
Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



Highest Band Edge / Full RB

Channel Power < -13dBm Pass

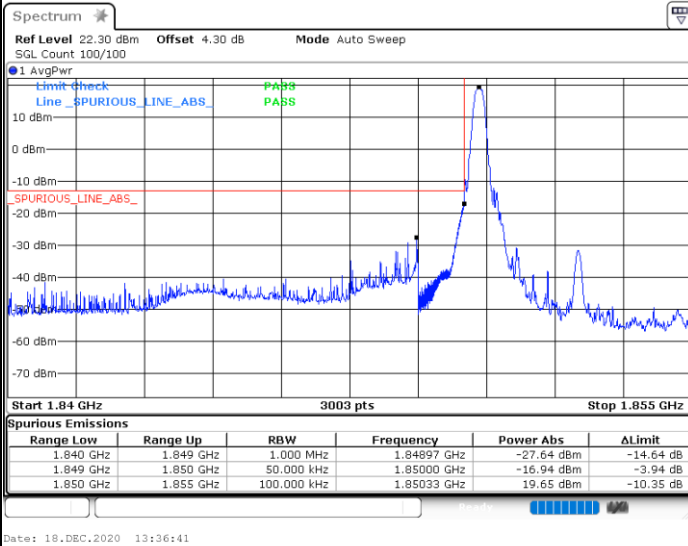




FR1 n2+5A / 5MHz / DFT-S OFDM QPSK

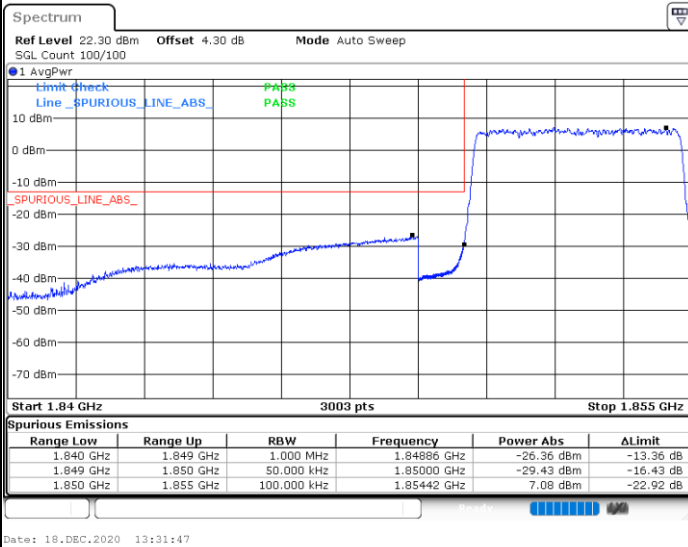
Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



Lowest Band Edge / Full RB

Channel Power < -13dBm Pass

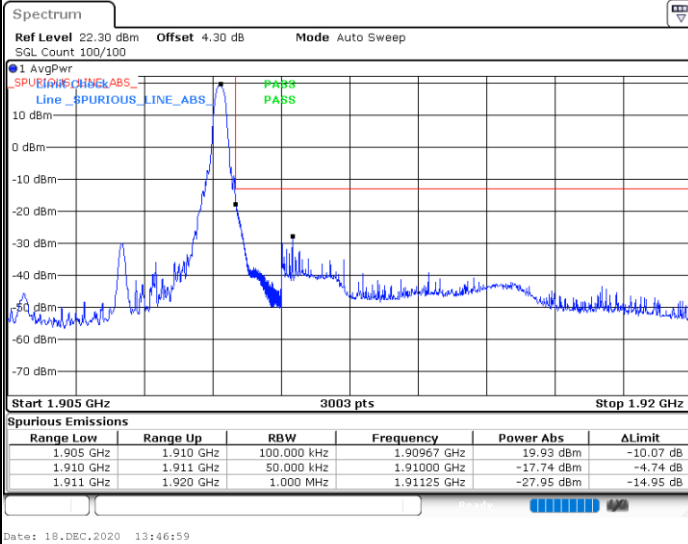




FR1 n2+5A / 5MHz / DFT-S OFDM QPSK

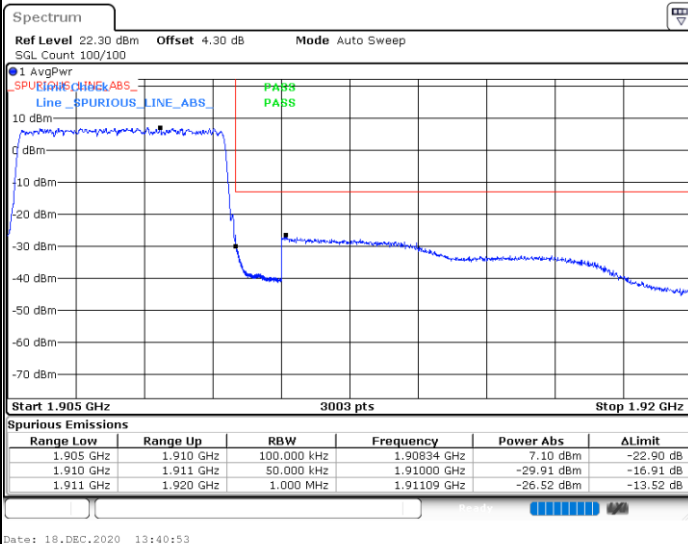
Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



Highest Band Edge / Full RB

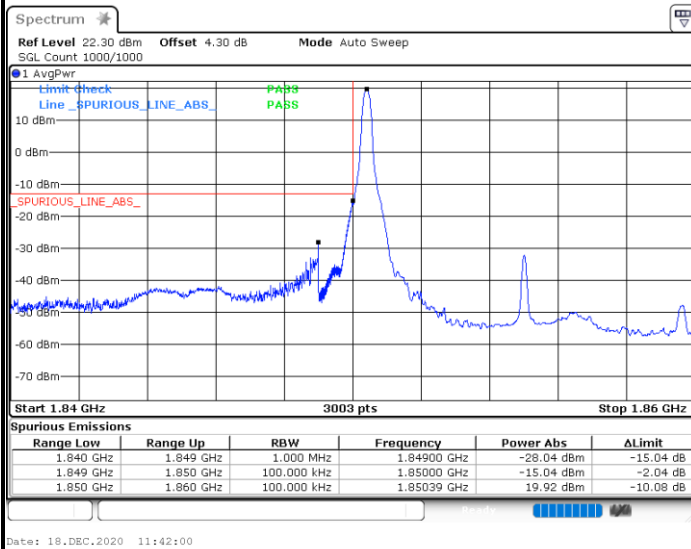
Channel Power < -13dBm Pass



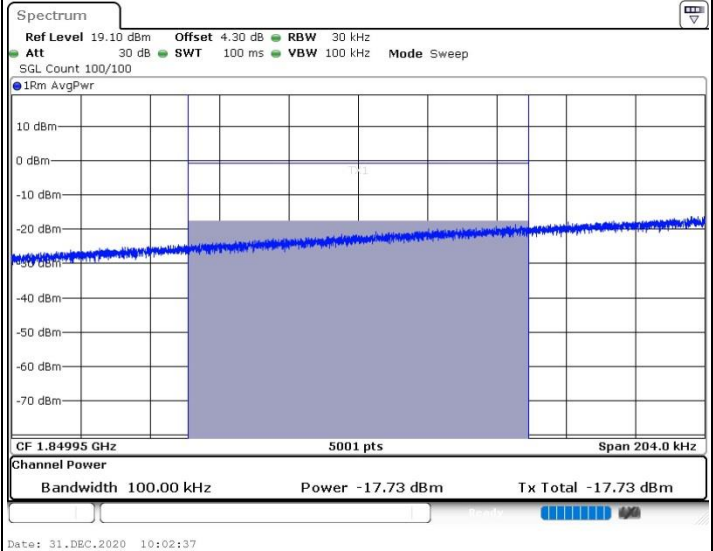


FR1 n2+5A / 10MHz / DFT-S OFDM BPSK

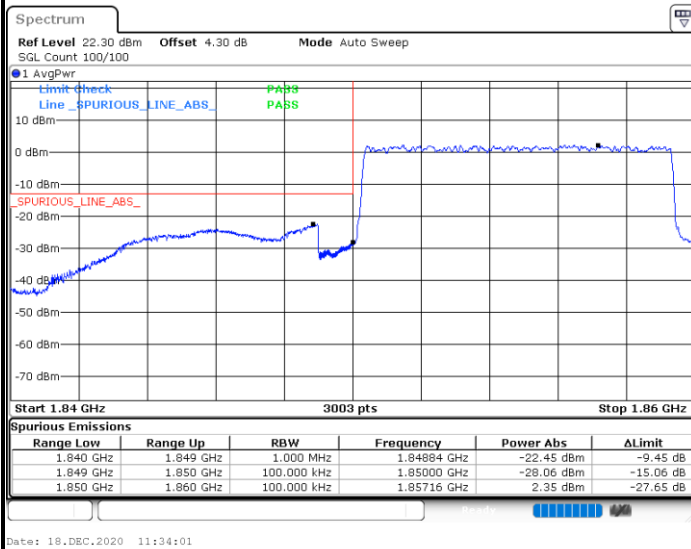
Lowest Band Edge / 1 RB



Channel Power < -13dBm Pass



Lowest Band Edge / Full RB



Channel Power < -13dBm Pass

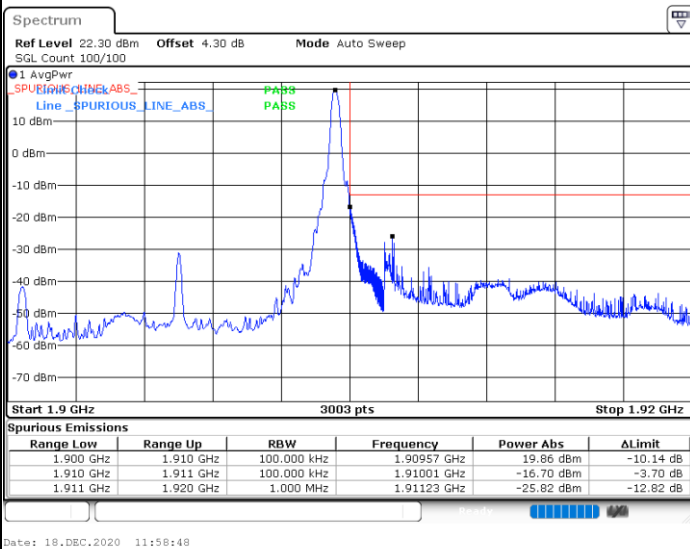
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FR1 n2+5A / 10MHz / DFT-S OFDM BPSK

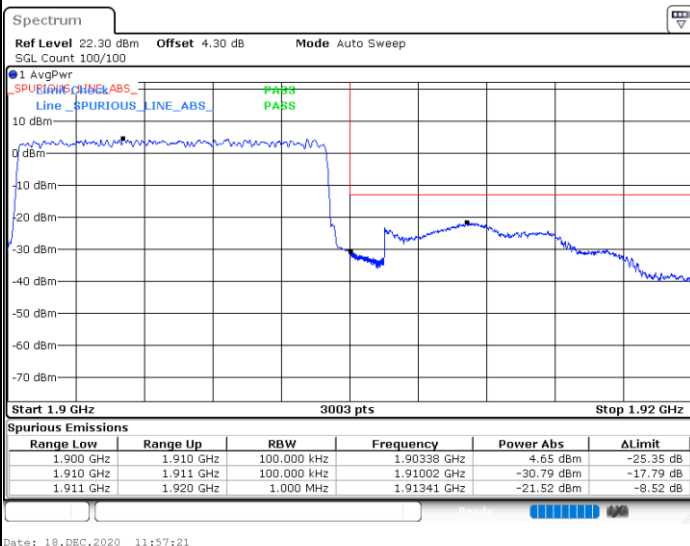
Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



Highest Band Edge / Full RB

Channel Power < -13dBm Pass

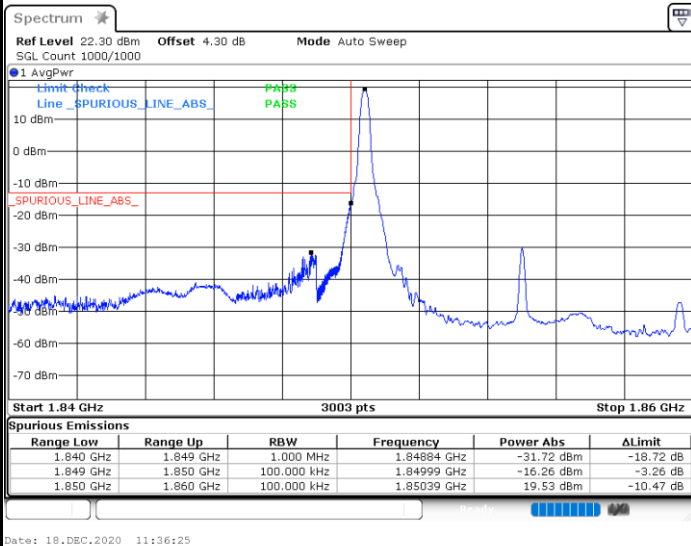




FR1 n2+5A / 10MHz / DFT-S OFDM QPSK

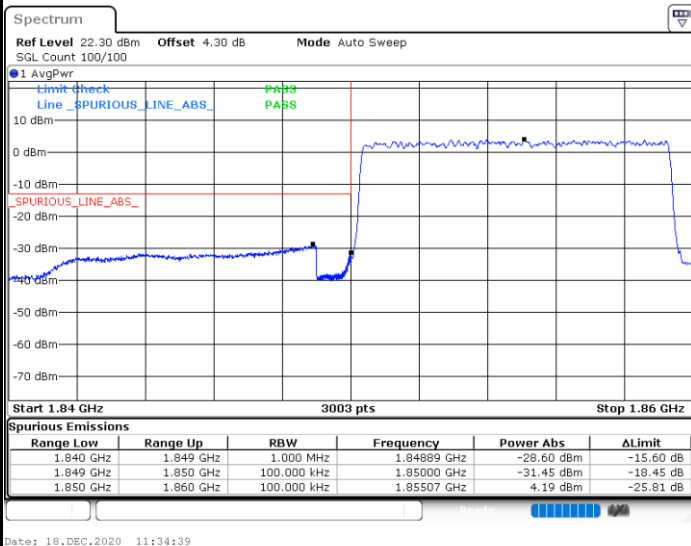
Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



Lowest Band Edge / Full RB

Channel Power < -13dBm Pass

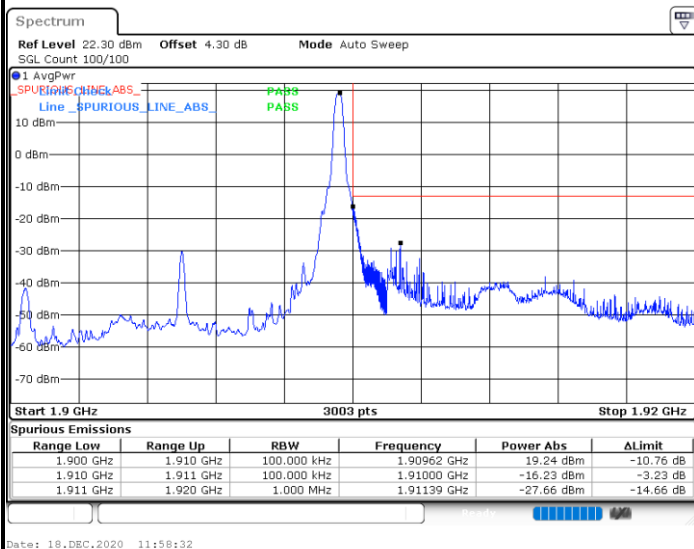




FR1 n2+5A / 10MHz / DFT-S OFDM QPSK

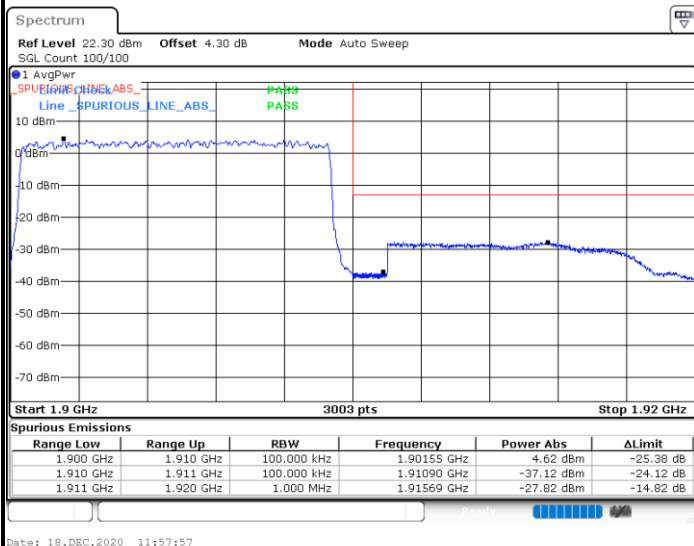
Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



Highest Band Edge / Full RB

Channel Power < -13dBm Pass

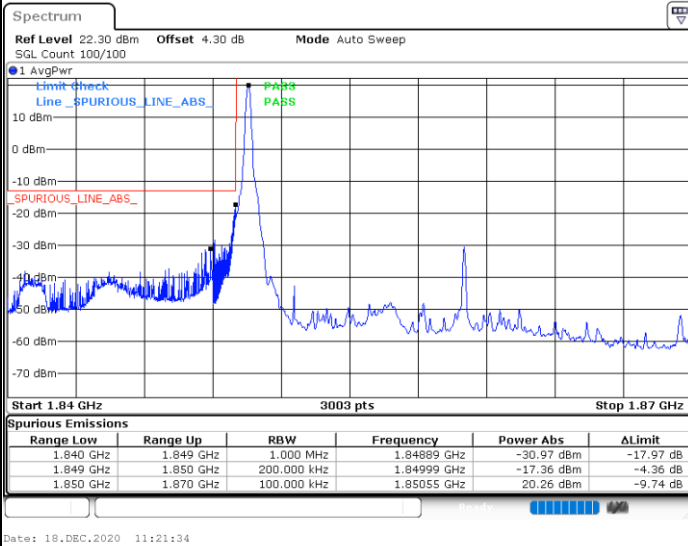




FR1 n2+5A / 20MHz / DFT-S OFDM BPSK

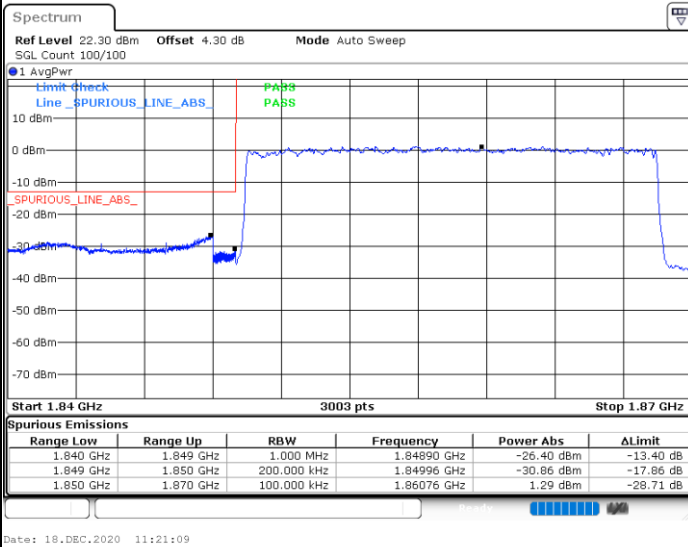
Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



Lowest Band Edge / Full RB

Channel Power < -13dBm Pass

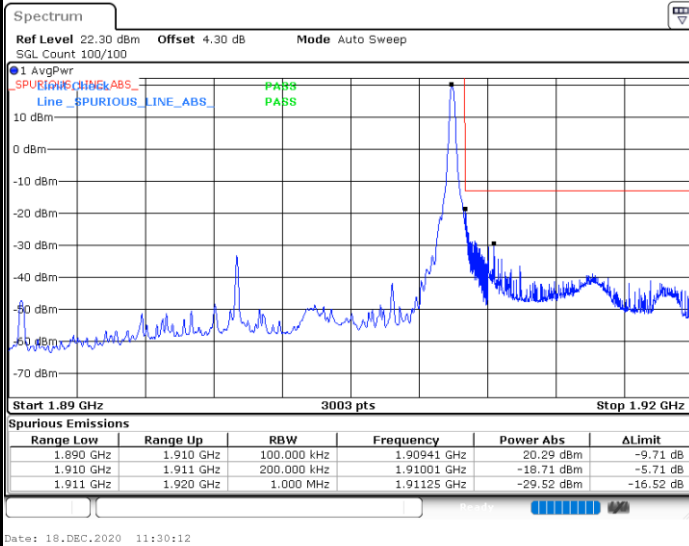




FR1 n2+5A / 20MHz / DFT-S OFDM BPSK

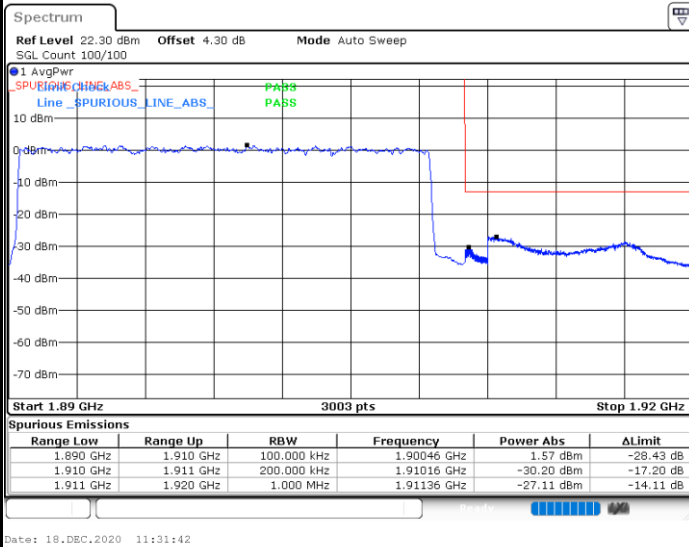
Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



Highest Band Edge / Full RB

Channel Power < -13dBm Pass

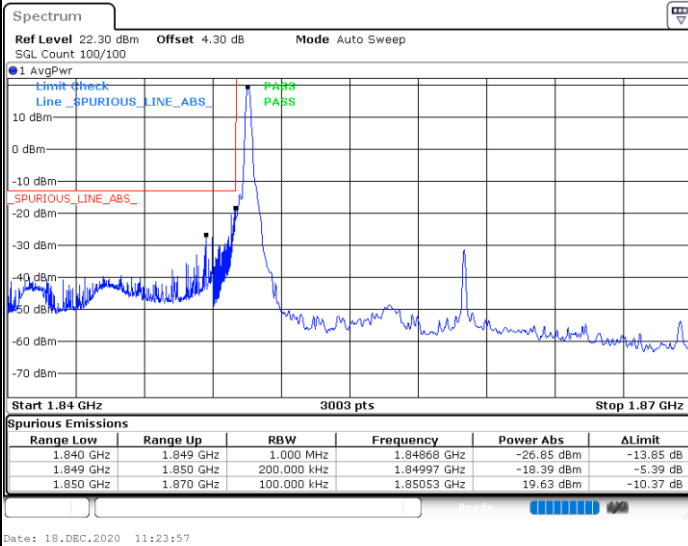




FR1 n2+5A / 20MHz / DFT-S OFDM QPSK

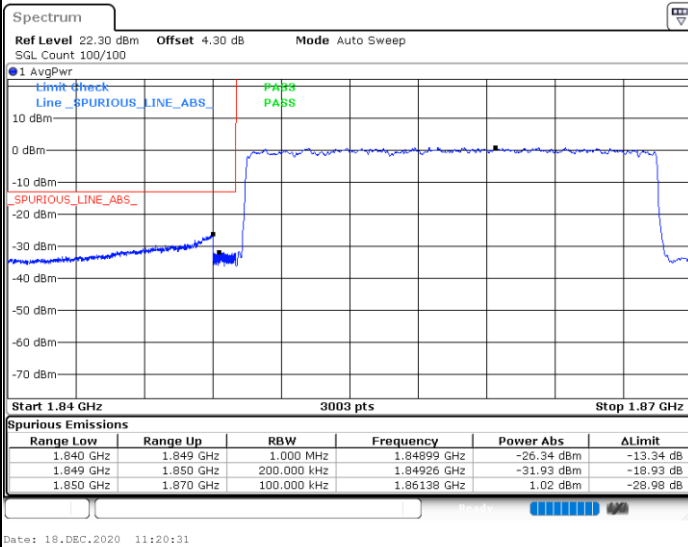
Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



Lowest Band Edge / Full RB

Channel Power < -13dBm Pass

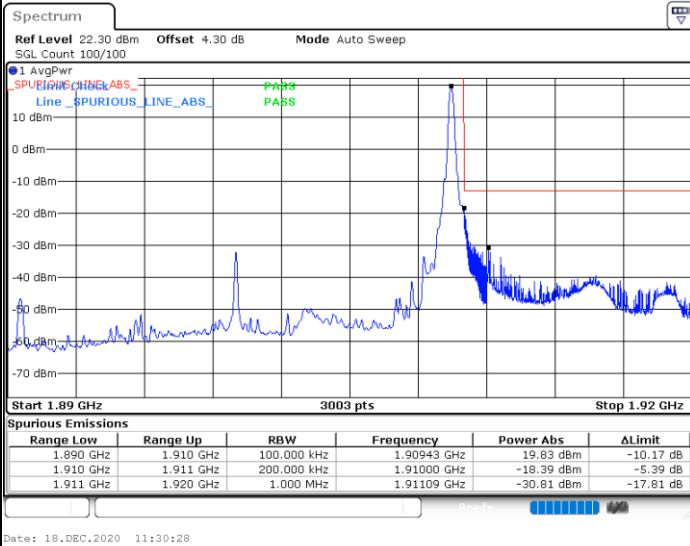




FR1 n2+5A / 20MHz / DFT-S OFDM QPSK

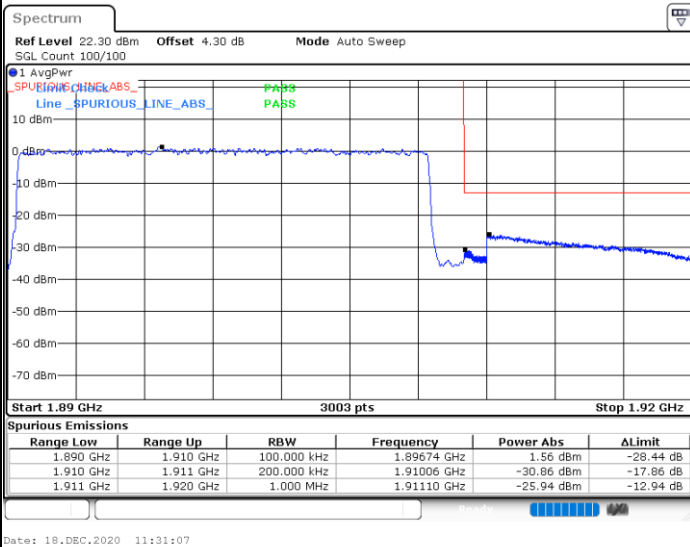
Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



Highest Band Edge / Full RB

Channel Power < -13dBm Pass



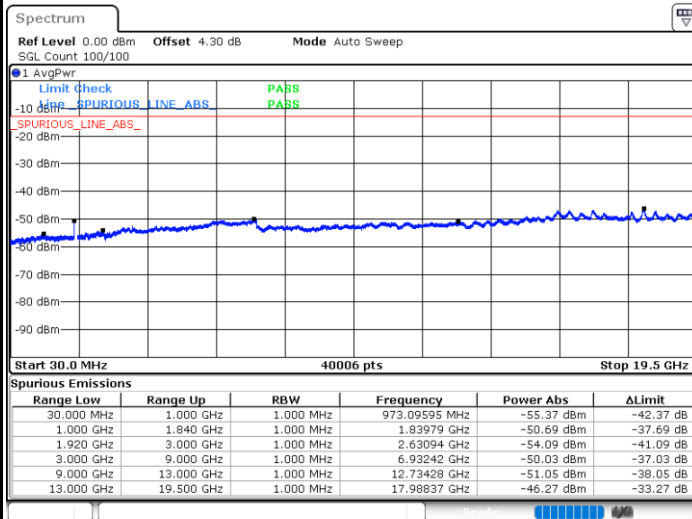


Conducted Spurious Emission

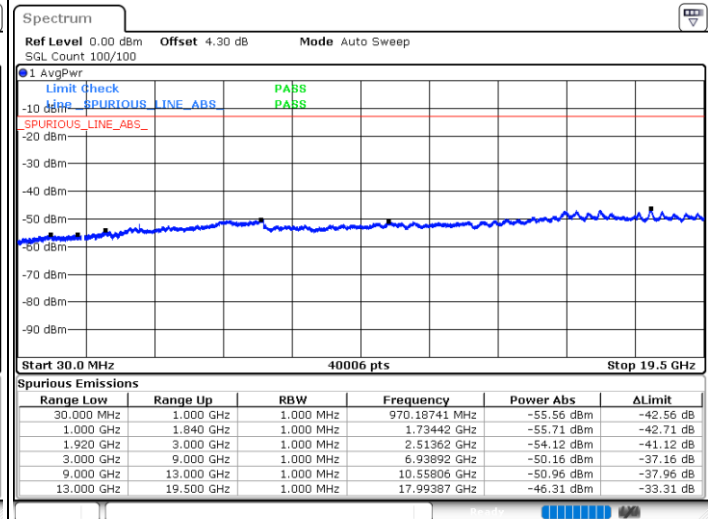
FR1 n2+5A / 5MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

Middle Channel / 1RB

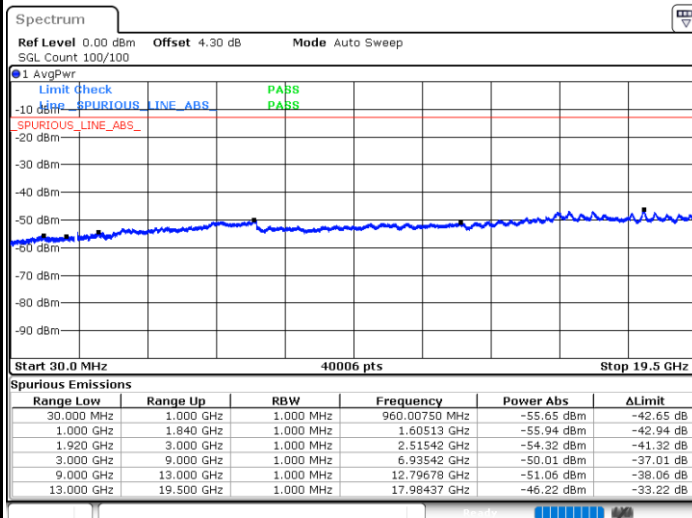


Date: 18.DEC.2020 13:33:56



Date: 18.DEC.2020 13:38:54

Highest Channel / 1RB



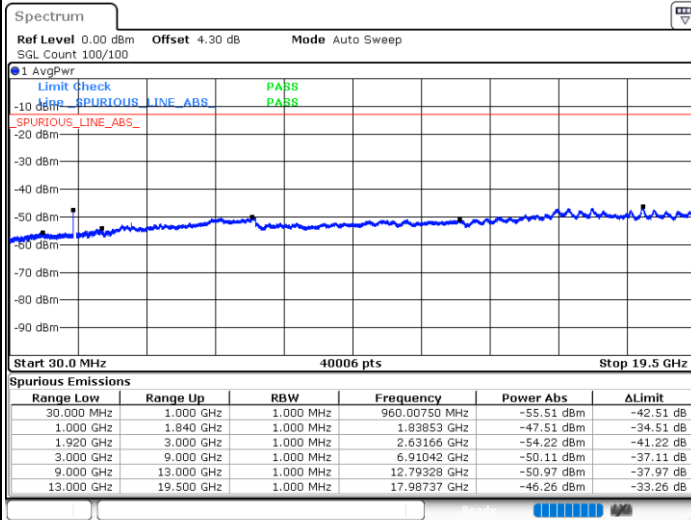
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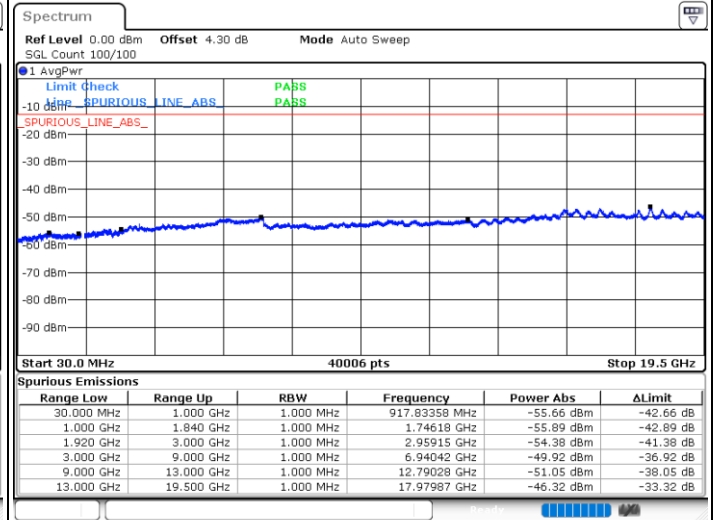
FR1 n2+5A / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

Middle Channel / 1RB

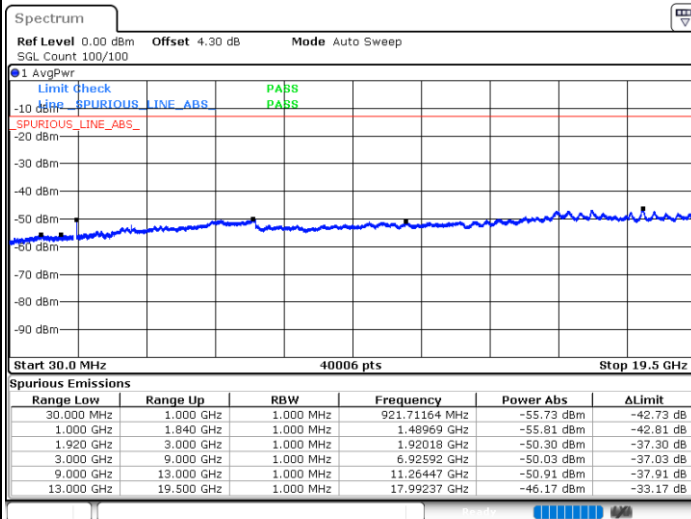


Date: 18.DEC.2020 13:36:15



Date: 18.DEC.2020 13:38:06

Highest Channel / 1RB



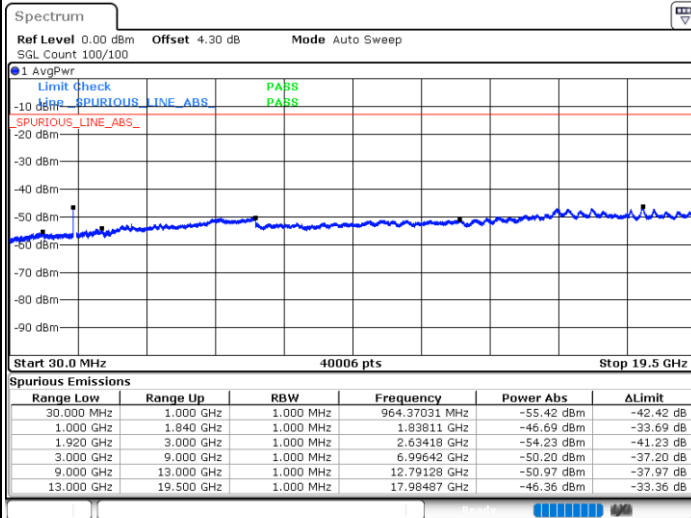
Date: 18.DEC.2020 13:48:10



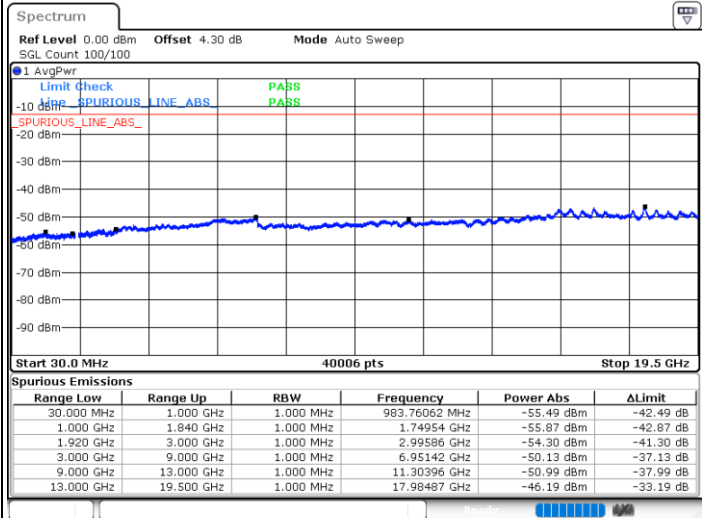
FR1 n2+5A / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

Middle Channel / 1RB

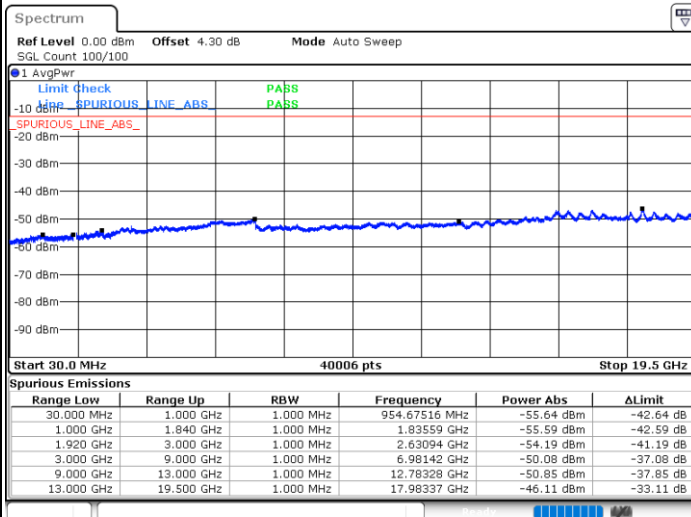


Date: 18.DEC.2020 11:49:26



Date: 18.DEC.2020 11:53:31

Highest Channel / 1RB



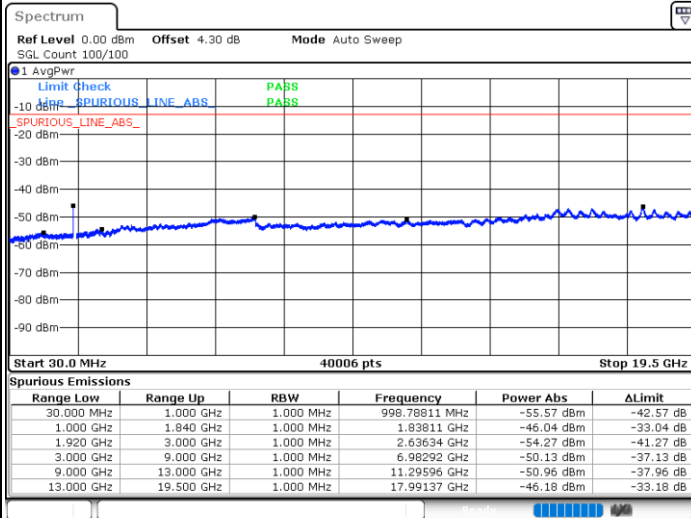
Date: 18.DEC.2020 12:00:01



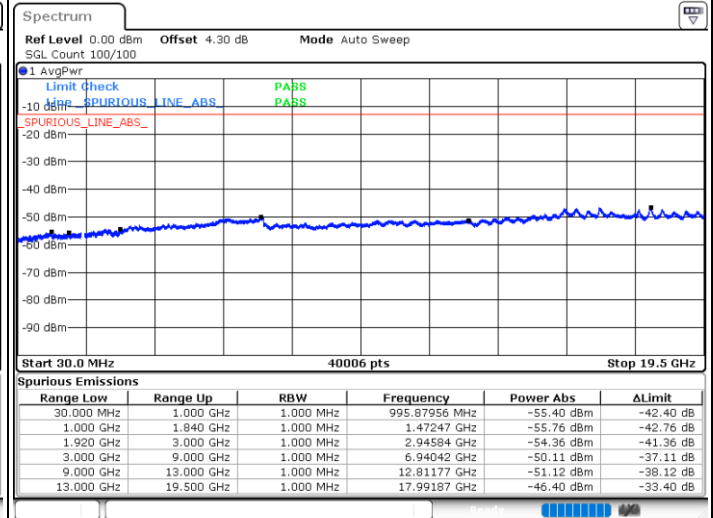
FR1 n2+5A / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

Middle Channel / 1RB

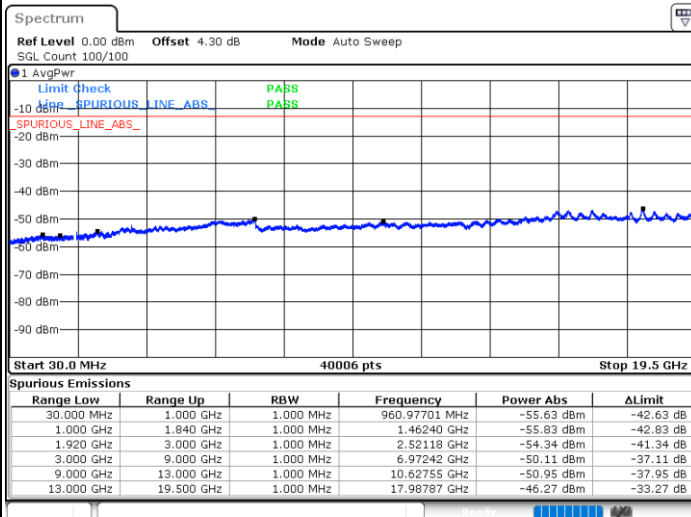


Date: 18.DEC.2020 11:38:52



Date: 18.DEC.2020 11:55:41

Highest Channel / 1RB

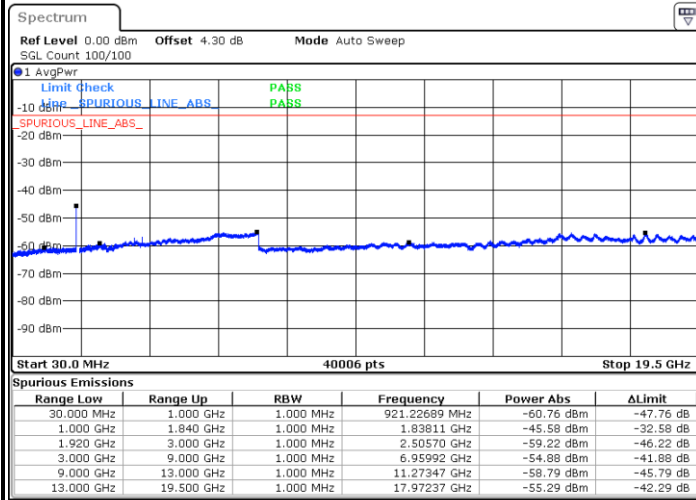


Date: 18.DEC.2020 12:01:27



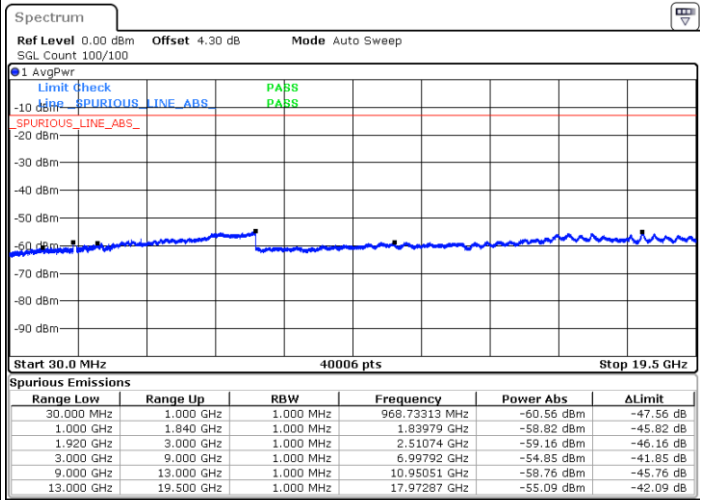
FR1 n2+5A / 20MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB



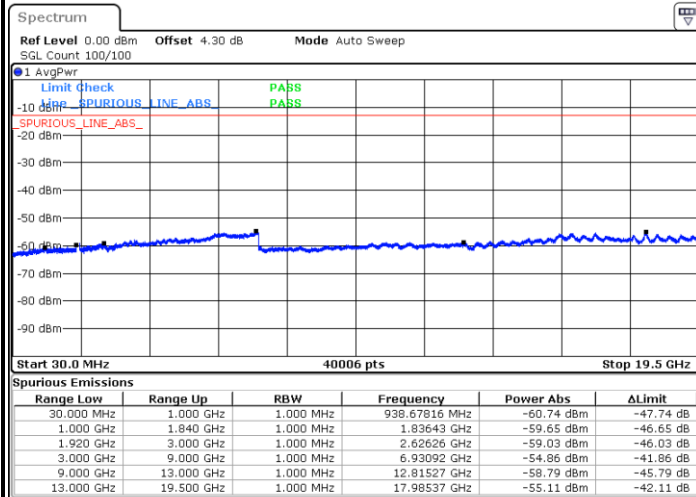
Date: 18.DEC.2020 11:22:50

Middle Channel / 1RB



Date: 18.DEC.2020 09:41:29

Highest Channel / 1RB

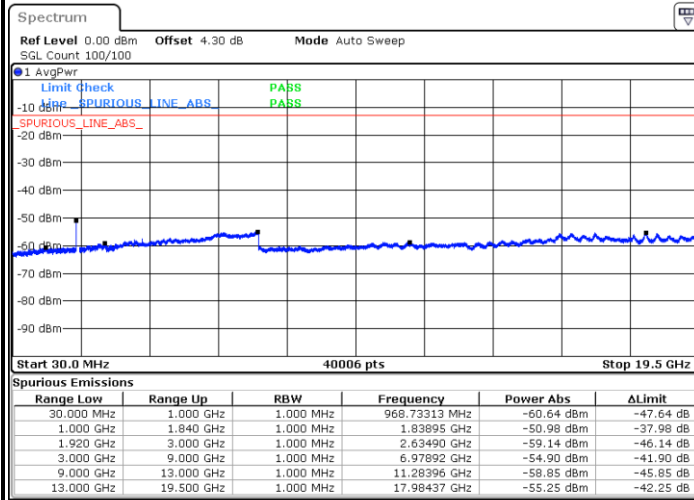


Date: 18.DEC.2020 11:29:50



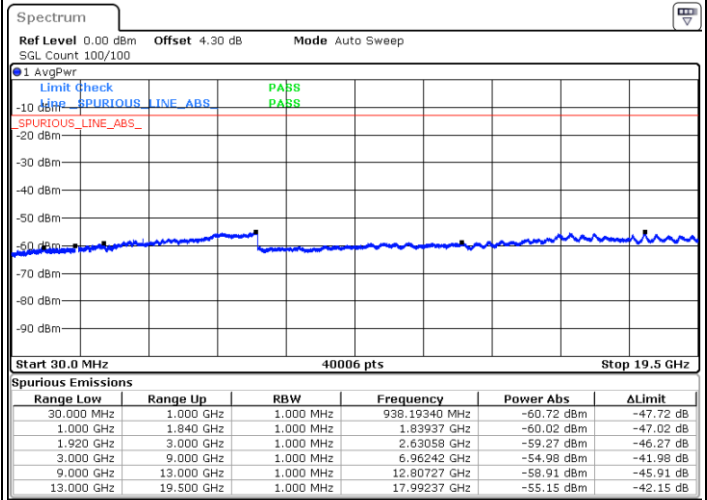
FR1 n2+5A / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB



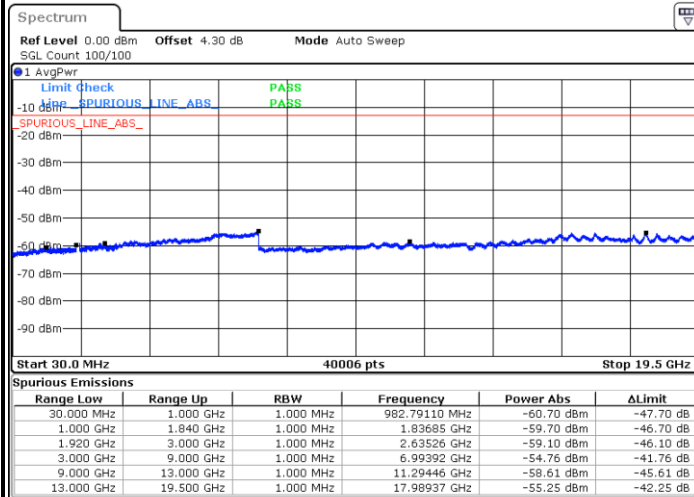
Date: 18.DEC.2020 11:26:02

Middle Channel / 1RB



Date: 18.DEC.2020 09:51:13

Highest Channel / 1RB



Date: 18.DEC.2020 11:27:54

**Frequency Stability**

Test Conditions		NR n2+5A (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Within Band
		Deviation (ppm)	Result
50	Normal Voltage	0.0013	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0013	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0013	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0015	
20	Battery End Point	0.0011	

Note:

1. Normal Voltage =7.74 V. ; Battery End Point (BEP) =7.2 V. ; Maximum Voltage =8.9 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



SA

Peak-to-Average Ratio

Mode	FR1 n2 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	PI/2 BPSK	QPSK	QPSK	Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.12	3.45	6.12	5.04	PASS
Middle CH	4.17	3.57	6.38	3.57	
Highest CH	5.91	3.74	5.91	5.13	