



Partial FCC RF Test Report

APPLICANT : OnePlus Technology (Shenzhen) Co., Ltd.
EQUIPMENT : Smart Phone
BRAND NAME : ONEPLUS
MODEL NAME : LE2117
FCC ID : 2ABZ2-EF136
STANDARD : 47 CFR Part 2, 27
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Oct. 28, 2020 and completely tested on Jan. 19, 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



Sporton International (ShenZhen) Inc.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG002801-02H	Rev. 01	Initial issue of report	Feb. 04, 2021

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§27.50(c)(10)	Effective Radiated Power (5G NR n71)	ERP < 3 Watt		
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (5G NR n7, n41)	EIRP < 2Watt		
	§27.50(j)(3)	Equivalent Isotropic Radiated Power (5G NR n77)	EIRP < 1Watt		
3.5	§27.50(j)(4)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §27.53(g) §27.53(l)(2)	Conducted Band Edge Measurement (5G NR n71, n77)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (5G NR n7, n41)	§27.53(m)(4)		
3.8	§2.1051 §27.53(g) §27.53(l)(2)	Conducted Spurious Emission (5G NR n71, n77)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (5G NR n7, n41)	< 55+10log ₁₀ (P[Watts])		
3.9	§27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(g) §27.53(l)(2)	Radiated Spurious Emission (5G NR n71, n77)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 24.29 dB at 10365.60 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (5G NR n7, n41)	< 55+10log ₁₀ (P[Watts])		

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	LE2117
FCC ID	2ABZ2-EF136
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(Qi)
IMEI Code	Conducted: 866522050026257 for Band n7/n41 990016720023652 for Band n71 Radiation : 990017410026906 for Band n7/n41/n71/n77 SA 990017410024190 for Band n41/n71 NSA &n41UL MIMO SA 990017410023739 for Band n77 NSA
HW Version	22
SW Version	11.2.0.0.LE54CB
EUT Stage	Production Unit

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n71: 663 MHz ~ 698MHz 5G NR n77: 3700 MHz ~ 3980 MHz
Rx Frequency	5G NR n7: 2620 MHz ~ 2690 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n71: 617 MHz ~ 652MHz 5G NR n77: 3700 MHz ~ 3980 MHz
Bandwidth	n7, n71: 5MHz / 10MHz / 15MHz / 20MHz n41, n77 : 20MHz / 30MHz / 40MHz / 50MHz / 80MHz / 90MHz / 100MHz
SCS	n7, n71: 15kHz n41, n77 : 30kHz
Antenna Gain	Top Antenna: 5G NR n7: -3.0 dBi 5G NR n41: -3.0 dBi 5G NR n71: -4.5 dBi 5G NR n77: -2.0 dBi Bottom Antenna: 5G NR n7: -2.0 dBi 5G NR n41: -2.0 dBi 5G NR n71: -4.0 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 n7		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	2502.5 ~ 2567.5	4M47G7D	0.1897	4M51W7D	0.1500
10	2505.0 ~ 2565.0	9M29G7D	0.1901	9M29W7D	0.1503
15	2507.5 ~ 2562.5	14M2G7D	0.1901	14M1W7D	0.1524
20	2510.0 ~ 2560.0	18M9G7D	0.1905	18M9W7D	0.1524
Frequency Tolerance (ppm)		0.0022			

5G NR n41_UL MIMO		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)
20	2506.02 ~ 2679.99	18M3G7D	0.3729	18M3W7D	0.3393
30	2511.00 ~ 2674.98	27M8G7D	0.3986	27M9W7D	0.3554
40	2516.01 ~ 2670.00	38M1G7D	0.3897	38M1W7D	0.3497
50	2521.02 ~ 2664.99	48M0G7D	0.3770	47M8W7D	0.3667
80	2536.02 ~ 2649.99	77M5G7D	0.3524	77M7W7D	0.3524
90	2541.00 ~ 2644.98	87M0G7D	0.3583	87M6W7D	0.3228
100	2546.01 ~ 2640.00	97M7G7D	0.4037	97M9W7D	0.3428
Frequency Tolerance (ppm)		0.0028			

5G NR n71		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	665.5 ~ 695.5	4M49G7D	0.0676	4M48W7D	0.0592
10	668.0 ~ 693.0	9M33G7D	0.0640	9M29W7D	0.0581
15	670.5 ~ 690.5	14M2G7D	0.0690	14M2W7D	0.0596
20	673.0 ~ 688.0	19M0G7D	0.0692	18M9W7D	0.0551
Frequency Tolerance (ppm)		0.0021			



5G NR n77		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)
20	3710.01 ~ 3969.99	18M2G7D	0.1901	18M3W7D	0.1746
30	3715.00 ~ 3965.00	27M9G7D	0.1892	28M2W7D	0.1746
40	3720.00 ~ 3960.00	38M3G7D	0.1888	38M3W7D	0.1738
50	3725.01 ~ 3954.99	47M9G7D	0.1897	47M9W7D	0.1694
80	3740.01 ~ 3939.99	77M5G7D	0.1854	77M4W7D	0.1698
90	3745.02 ~ 3734.98	87M6G7D	0.1832	87M6W7D	0.1679
100	3750.00 ~ 3930.00	97M5G7D	0.1905	97M5W7D	0.1758
Frequency Tolerance (ppm)		0.0025			

5G NR n71 (EN DC_2A-n71A)		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	665.5 ~ 695.5	4M47G7D	0.0581	4M50W7D	0.0456
10	668.0 ~ 693.0	9M31G7D	0.0590	9M29W7D	0.0452
15	670.5 ~ 690.5	14M1G7D	0.0601	14M2W7D	0.0447
20	673.0 ~ 688.0	18M9G7D	0.0645	19M0W7D	0.0449
Frequency Tolerance (ppm)		0.0019			

5G NR n77 (EN DC_7A-n77A)		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)
20	3710.01 ~ 3969.99	18M3G7D	0.1894	18M3W7D	0.1646
30	3715.00 ~ 3965.00	28M0G7D	0.1898	28M3W7D	0.1684
40	3720.00 ~ 3960.00	38M3G7D	0.1903	38M1W7D	0.1646
50	3725.01 ~ 3954.99	47M5G7D	0.1898	47M8W7D	0.1646
80	3740.01 ~ 3939.99	77M5G7D	0.1859	77M5W7D	0.1680
90	3745.02 ~ 3734.98	87M4G7D	0.1903	87M4W7D	0.1723
100	3750.00 ~ 3930.00	97M3G7D	0.1908	97M5W7D	0.1822
Frequency Tolerance (ppm)		0.0025			

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-SZ 03CH03-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, 27
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

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

2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

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

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

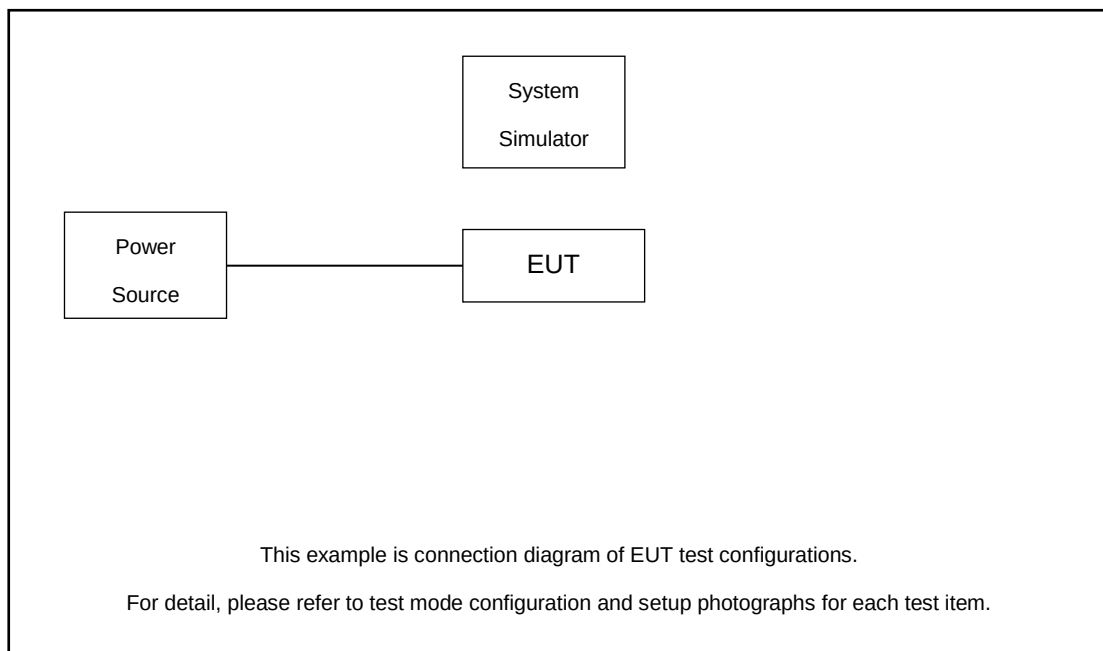
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			

Test Items	5G NR	Bandwidth (MHz)						Modulation					RB #		Test Channel		
		5	10	15	20	30-90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Full	L	M	H
Max. Output Power	n7	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	n41	-	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	n71	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	n77	-	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	n7				v	-	-	v	v				v	v	v	v	v
	n41	-	-	-	v				v				v	v	v	v	v
	n71				v	-	-	v	v				v	v	v	v	v
	n77	-	-	-	v			v	v				v	v	v	v	v
26dB and 99% Bandwidth	n7	v	v	v	v	-	-		v	v	v	v		v		v	
	n41	-	-	-	v	v	v		v	v	v	v		v		v	
	n71	v	v	v	v	-	-		v	v	v	v		v		v	
	n77	-	-	-	v	v	v		v	v	v	v		v		v	
Conducted Band Edge	n7	v	v	v	v	-	-	v	v				v	v	v		v
	n41	-	-	-	v	v	v		v				v	v	v		v
	n71	v	v	v	v	-	-	v	v				v	v	v		v
	n77	-	-	-	v	v	v	v	v				v	v	v		v



Test Items	5G NR	Bandwidth (MHz)						Modulation					RB #		Test Channel		
		5	10	15	20	30-90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Full	L	M	H
Conducted Spurious Emission	n7	v	v	v	v	-	-	v	v				v	v	v	v	v
	n41	-	-	-	v	v	v		v				v	v	v	v	v
	n71	v	v	v	v	-	-	v	v				v	v	v	v	v
	n77				v	v	v	v	v				v	v	v	v	v
Frequency Stability	n7				v	-	-	v						v		v	
	n41	-	-	-			v		v					v		v	
	n71				v	-	-	v						v		v	
	n77	-	-	-			v	v						v		v	
E.R.P / E.I.R.P	n7	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	n41	-	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	n71	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	n77	-	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	n7	Worst Case													v	v	v
	n41	Worst Case													v	v	v
	n71	Worst Case													v	v	v
	n77	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. 5G NR n41 supports HPUE. The conducted data of 5G NR n41 HPUE will be issued separately in another test report. 5. This report only shows the UL MIMO mode of 5G NR n41. 6. Only the top antenna supports 5G NR band n77. 7. The maximum ERP/EIRP is calculated from max output power and max antenna gain, only the maximum ERP/EIRP is shown in the report. 8. 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. 9. 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 4.2 dB.

Example :

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\
 &= 4.2 \text{ (dB)}
 \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

5G NR n7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	526000	531000	536000
	Frequency	2510	2535	2560
15	Channel	525500	531000	536500
	Frequency	2507.5	2535	2562.5
10	Channel	525000	531000	537000
	Frequency	2505	2535	2565
5	Channel	524500	531000	537500
	Frequency	2502.5	2535	2567.5

5G NR n41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	509202	518598	528000
	Frequency	2546.01	2592.99	2640
90	Channel	508200	518598	528996
	Frequency	2541	2592.99	2644.98
80	Channel	507204	518598	529998
	Frequency	2536.02	2592.99	2649.99
50	Channel	504204	518598	532998
	Frequency	2521.02	2592.99	2664.99
40	Channel	503202	518598	534000
	Frequency	2516.01	2592.99	2670
30	Channel	502200	518598	534996
	Frequency	2511	2592.99	2674.98
20	Channel	501204	518598	535998
	Frequency	2506.02	2592.99	2679.99



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

5G NR n77 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	650000	656000	662000
	Frequency	3750	3840	3930
90	Channel	649668	656000	662332
	Frequency	3745.02	3840	3734.98
80	Channel	649334	656000	662666
	Frequency	3740.01	3840	3939.99
50	Channel	648334	656000	663666
	Frequency	3725.01	3840	3954.99
40	Channel	648000	656000	664000
	Frequency	3720	3840	3960
30	Channel	647666	656000	664334
	Frequency	3715	3840	3965
20	Channel	647334	656000	664666
	Frequency	3710.01	3840	3969.99

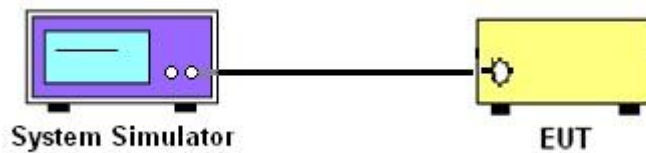
3 Conducted Test Items

3.1 Measuring Instruments

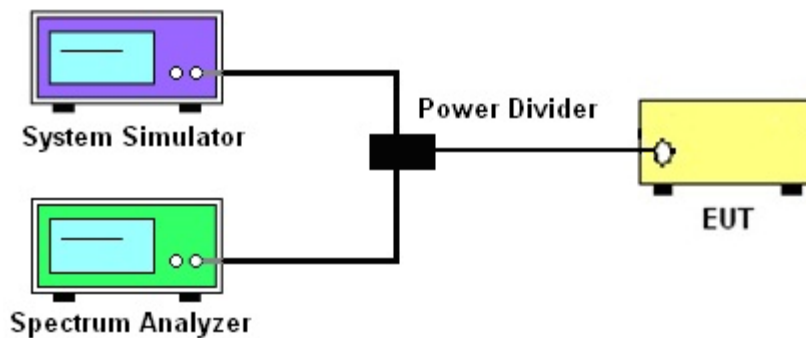
See list of measuring instruments of this test report.

3.2 Test Setup

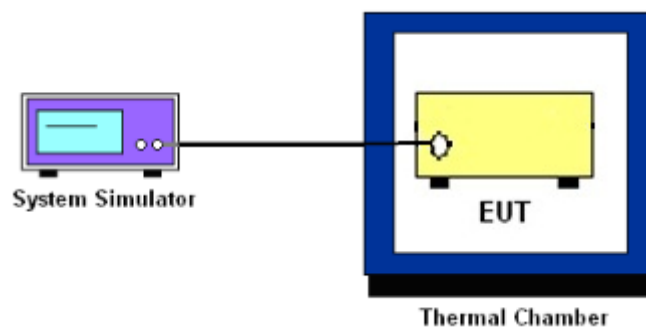
3.2.1 Conducted Output Power



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 3 Watts for 5G NR n71.

The EIRP of mobile transmitters must not exceed 2 Watts for 5G NR n7 and n41.

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n77.

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

27.53(m)(4)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

27.53(l)(2)

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.

3.7.2 Test Procedures

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

Example:

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

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

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

9. For 5G NR n7/n41, the other 40 dB, and 55 dB have additionally applied same calculation above.

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.

For 5G NR n7/n41:

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 $55 + 10 \log (P)$ 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.
11. For 5G NR n7/n41
The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [55 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[55 + 10\log(P)]$ (dB)
 $= -25$ 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.

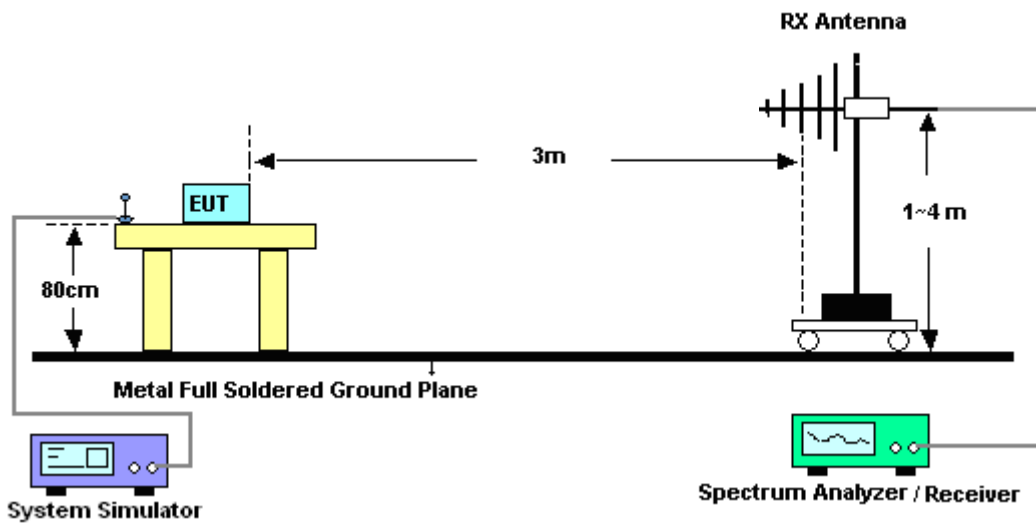
4 Radiated Test Items

4.1 Measuring Instruments

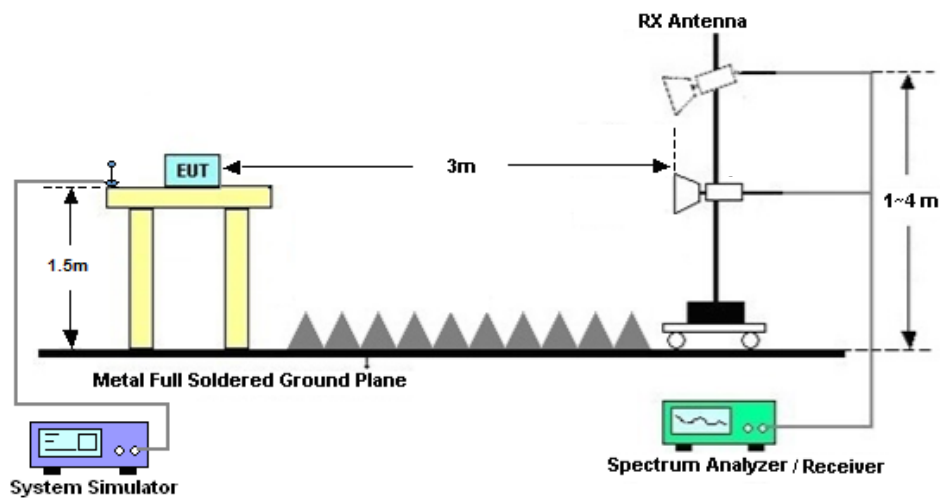
See list of measuring instruments of this test report.

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.

For 5G NR n7/n41

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

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

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

13. For 5G NR n7/n38/n41:

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)



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	Nov. 21, 2020~Jan. 19, 2021	Apr. 16, 2021	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 22, 2020	Nov. 21, 2020~Jan. 19, 2021	Jul. 21, 2021	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Jul. 21, 2020	Dec. 26, 2020~Dec. 27, 2020	Jul. 20, 2021	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270104	0.5GHz~26.5GHz	Dec. 27, 2019	Dec. 26, 2020~Dec. 27, 2020	Dec. 26, 2020	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270104	0.5GHz~26.5GHz	Dec. 27, 2020		Dec. 26, 2021	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Jul. 15, 2020	Dec. 26, 2020~Dec. 27, 2020	Jul. 14, 2021	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 25, 2020	Dec. 26, 2020~Dec. 27, 2020	Jul. 24, 2021	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 23, 2020	Dec. 26, 2020~Dec. 27, 2020	Apr. 22, 2021	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 17, 2020	Dec. 26, 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. 26, 2020~Dec. 27, 2020	Oct. 16, 2021	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 21, 2020	Dec. 26, 2020~Dec. 27, 2020	Jul. 20, 2021	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Dec. 26, 2020~Dec. 27, 2020	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Dec. 26, 2020~Dec. 27, 2020	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Dec. 26, 2020~Dec. 27, 2020	NCR	Radiation (03CH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 17, 2020	Dec. 26, 2020~Jan. 01, 2021	Apr. 16, 2021	Radiation (03CH03-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 17, 2020	Dec. 26, 2020~Jan. 01, 2021	Apr. 16, 2021	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz~2GHz	Jun. 22, 2020	Dec. 26, 2020~Jan. 01, 2021	Jun. 21, 2021	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 30, 2020	Dec. 26, 2020~Jan. 01, 2021	Apr. 29, 2021	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102210	0.01Hz ~3000MHz	Oct. 17, 2019	Dec. 26, 2020~Jan. 01, 2021	Oct. 16, 2021	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 21, 2020	Dec. 26, 2020~Jan. 01, 2021	Jul. 20, 2021	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 23, 2020	Dec. 26, 2020~Jan. 01, 2021	Apr. 22, 2021	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 25, 2020	Dec. 26, 2020~Jan. 01, 2021	Dec. 24, 2021	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Dec. 26, 2020~Jan. 01, 2021	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Dec. 26, 2020~Jan. 01, 2021	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Dec. 26, 2020~Jan. 01, 2021	NCR	Radiation (03CH03-SZ)

NCR: No Calibration Required

6 Uncertainty of Evaluation

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

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 n7 SA mode:

SA n7 (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	24.80	0.302	22.80	0.1905
		1	104	24.77	0.2999	22.77	0.1892
		50	25	24.76	0.2992	22.76	0.1888
	QPSK DFT-s-OFDM	1	1	24.42	0.2767	22.42	0.1746
		1	104	24.37	0.2735	22.37	0.1722
		50	25	24.34	0.2716	22.34	0.1714
	16QAM DFT-s-OFDM	1	1	23.83	0.2415	21.83	0.1524
		1	104	23.51	0.2244	21.51	0.1416
		50	25	23.54	0.2259	21.54	0.1426
	64QAM DFT-s-OFDM	1	1	22.71	0.1866	20.71	0.1178
		1	104	22.19	0.1656	20.19	0.1045
		50	25	22.23	0.1671	20.23	0.1054
	256QAM DFT-s-OFDM	1	1	20.14	0.1033	18.14	0.0652
		1	104	20.09	0.1021	18.09	0.0644
		50	25	20.13	0.103	18.13	0.065
Middle	PI/2 BPSK DFT-s-OFDM	1	1	24.74	0.2979	22.74	0.1879
		1	104	24.78	0.3006	22.78	0.1897
		50	25	24.78	0.3006	22.78	0.1897
	QPSK DFT-s-OFDM	1	1	24.74	0.2979	22.74	0.1879
		1	104	24.77	0.2999	22.77	0.1892
		50	25	24.78	0.3006	22.78	0.1897
	16QAM DFT-s-OFDM	1	1	23.81	0.2404	21.81	0.1517
		1	104	23.63	0.2307	21.63	0.1455
		50	25	23.66	0.2323	21.66	0.1466
	64QAM DFT-s-OFDM	1	1	22.37	0.1726	20.37	0.1089
		1	104	22.51	0.1782	20.51	0.1125
		50	25	22.45	0.1758	20.45	0.1109
	256QAM DFT-s-OFDM	1	1	20.04	0.1009	18.04	0.0637
		1	104	20.17	0.104	18.17	0.0656
		50	25	20.23	0.1054	18.23	0.0665
QPSK CP-s-OFDM	1	1	23.18	0.208	21.18	0.1312	
	1	104	22.94	0.1968	20.94	0.1242	
	53	26	23.08	0.2032	21.08	0.1282	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	24.64	0.2911	22.64	0.1837
		1	104	24.39	0.2748	22.39	0.1734
		50	25	24.56	0.2858	22.56	0.1803
	QPSK DFT-s-OFDM	1	1	24.64	0.2911	22.64	0.1837
		1	104	24.03	0.2529	22.03	0.1596
		50	25	24.59	0.2877	22.59	0.1816
	16QAM DFT-s-OFDM	1	1	23.73	0.236	21.73	0.1489
		1	104	23.19	0.2084	21.19	0.1315
		50	25	23.58	0.228	21.58	0.1439
	64QAM DFT-s-OFDM	1	1	22.35	0.1718	20.35	0.1084
		1	104	21.74	0.1493	19.74	0.0942
		50	25	22.36	0.1722	20.36	0.1086
	256QAM DFT-s-OFDM	1	1	20.17	0.104	18.17	0.0656
		1	104	19.96	0.0991	17.96	0.0625
		50	25	20.00	0.1	18.00	0.0631
Limit	EIRP < 2W			Result		PASS	

SA n7 (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	24.77	0.2999	22.77	0.1892
		1	77	24.78	0.3006	22.78	0.1897
		36	18	24.78	0.3006	22.78	0.1897
	QPSK DFT-s-OFDM	1	1	24.73	0.2972	22.73	0.1875
		1	77	24.44	0.278	22.44	0.1754
		36	18	24.77	0.2999	22.77	0.1892
	16QAM DFT-s-OFDM	1	1	23.71	0.235	21.71	0.1483
		1	77	23.51	0.2244	21.51	0.1416
		36	18	23.83	0.2415	21.83	0.1524
	64QAM DFT-s-OFDM	1	1	22.36	0.1722	20.36	0.1086
		1	77	22.22	0.1667	20.22	0.1052
		36	18	22.59	0.1816	20.59	0.1146
	256QAM DFT-s-OFDM	1	1	20.10	0.1023	18.10	0.0646
		1	77	20.11	0.1026	18.11	0.0647
		36	18	20.08	0.1019	18.08	0.0643
Middle	PI/2 BPSK DFT-s-OFDM	1	1	24.71	0.2958	22.71	0.1866
		1	77	24.79	0.3013	22.79	0.1901
		36	18	24.75	0.2985	22.75	0.1884
	QPSK DFT-s-OFDM	1	1	24.76	0.2992	22.76	0.1888
		1	77	24.71	0.2958	22.71	0.1866
		36	18	24.75	0.2985	22.75	0.1884
	16QAM DFT-s-OFDM	1	1	23.47	0.2223	21.47	0.1403
		1	77	23.51	0.2244	21.51	0.1416
		36	18	23.69	0.2339	21.69	0.1476
	64QAM DFT-s-OFDM	1	1	22.52	0.1786	20.52	0.1127
		1	77	22.79	0.1901	20.79	0.1199
		36	18	22.23	0.1671	20.23	0.1054
	256QAM DFT-s-OFDM	1	1	19.92	0.0982	17.92	0.0619
		1	77	20.19	0.1045	18.19	0.0659
		36	18	20.19	0.1045	18.19	0.0659
QPSK CP-s-OFDM	1	1	22.97	0.1982	20.97	0.125	
	1	77	22.93	0.1963	20.93	0.1239	
	39	19	23.11	0.2046	21.11	0.1291	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	24.79	0.3013	22.79	0.1901
		1	77	24.57	0.2864	22.57	0.1807
		36	18	24.67	0.2931	22.67	0.1849
	QPSK DFT-s-OFDM	1	1	24.66	0.2924	22.66	0.1845
		1	77	23.98	0.25	21.98	0.1578
		36	18	24.55	0.2851	22.55	0.1799
	16QAM DFT-s-OFDM	1	1	23.77	0.2382	21.77	0.1503
		1	77	23.25	0.2113	21.25	0.1334
		36	18	23.46	0.2218	21.46	0.14
	64QAM DFT-s-OFDM	1	1	22.20	0.166	20.20	0.1047
		1	77	21.91	0.1552	19.91	0.0979
		36	18	22.82	0.1914	20.82	0.1208
	256QAM DFT-s-OFDM	1	1	20.08	0.1019	18.08	0.0643
		1	77	19.97	0.0993	17.97	0.0627
		36	18	20.09	0.1021	18.09	0.0644
Limit	EIRP < 2W			Result		PASS	

SA n7 (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	24.78	0.3006	22.78	0.1897
		1	50	24.77	0.2999	22.77	0.1892
		25	12	24.79	0.3013	22.79	0.1901
	QPSK DFT-s-OFDM	1	1	24.48	0.2805	22.48	0.177
		1	50	24.35	0.2723	22.35	0.1718
		25	12	24.78	0.3006	22.78	0.1897
	16QAM DFT-s-OFDM	1	1	23.77	0.2382	21.77	0.1503
		1	50	23.73	0.236	21.73	0.1489
		25	12	23.46	0.2218	21.46	0.14
	64QAM DFT-s-OFDM	1	1	22.36	0.1722	20.36	0.1086
		1	50	22.75	0.1884	20.75	0.1189
		25	12	22.80	0.1905	20.80	0.1202
256QAM DFT-s-OFDM	1	1	20.22	0.1052	18.22	0.0664	
	1	50	19.94	0.0986	17.94	0.0622	
	25	12	20.07	0.1016	18.07	0.0641	
Middle	PI/2 BPSK DFT-s-OFDM	1	1	24.75	0.2985	22.75	0.1884
		1	50	24.70	0.2951	22.70	0.1862
		25	12	24.76	0.2992	22.76	0.1888
	QPSK DFT-s-OFDM	1	1	24.75	0.2985	22.75	0.1884
		1	50	24.70	0.2951	22.70	0.1862
		25	12	24.78	0.3006	22.78	0.1897
	16QAM DFT-s-OFDM	1	1	23.75	0.2371	21.75	0.1496
		1	50	23.61	0.2296	21.61	0.1449
		25	12	23.46	0.2218	21.46	0.14
	64QAM DFT-s-OFDM	1	1	22.20	0.166	20.20	0.1047
		1	50	22.42	0.1746	20.42	0.1102
		25	12	22.57	0.1807	20.57	0.114
256QAM DFT-s-OFDM	1	1	20.12	0.1028	18.12	0.0649	
	1	50	20.43	0.1104	18.43	0.0697	
	25	12	20.21	0.105	18.21	0.0662	
QPSK CP-s-OFDM	1	1	23.21	0.2094	21.21	0.1321	
	1	50	22.98	0.1986	20.98	0.1253	
	26	13	23.11	0.2046	21.11	0.1291	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	24.48	0.2805	22.48	0.177
		1	50	24.40	0.2754	22.40	0.1738
		25	12	24.52	0.2831	22.52	0.1786
	QPSK DFT-s-OFDM	1	1	24.71	0.2958	22.71	0.1866
		1	50	24.07	0.2553	22.07	0.1611
		25	12	24.35	0.2723	22.35	0.1718
	16QAM DFT-s-OFDM	1	1	23.72	0.2355	21.72	0.1486
		1	50	23.21	0.2094	21.21	0.1321
		25	12	23.55	0.2265	21.55	0.1429
	64QAM DFT-s-OFDM	1	1	22.12	0.1629	20.12	0.1028
		1	50	21.64	0.1459	19.64	0.092
		25	12	22.36	0.1722	20.36	0.1086
256QAM DFT-s-OFDM	1	1	20.17	0.104	18.17	0.0656	
	1	50	19.96	0.0991	17.96	0.0625	
	25	12	20.06	0.1014	18.06	0.064	
Limit	EIRP < 2W			Result		PASS	

SA n7 (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	24.77	0.2999	22.77	0.1892
		1	23	24.78	0.3006	22.78	0.1897
		12	6	24.75	0.2985	22.75	0.1884
	QPSK DFT-s-OFDM	1	1	24.69	0.2944	22.69	0.1858
		1	23	24.77	0.2999	22.77	0.1892
		12	6	24.75	0.2985	22.75	0.1884
	16QAM DFT-s-OFDM	1	1	23.58	0.228	21.58	0.1439
		1	23	23.67	0.2328	21.67	0.1469
		12	6	23.62	0.2301	21.62	0.1452
	64QAM DFT-s-OFDM	1	1	22.71	0.1866	20.71	0.1178
		1	23	22.33	0.171	20.33	0.1079
		12	6	22.11	0.1626	20.11	0.1026
256QAM DFT-s-OFDM	1	1	20.06	0.1014	18.06	0.064	
	1	23	20.08	0.1019	18.08	0.0643	
	12	6	20.01	0.1002	18.01	0.0632	
Middle	PI/2 BPSK DFT-s-OFDM	1	1	24.77	0.2999	22.77	0.1892
		1	23	24.74	0.2979	22.74	0.1879
		12	6	24.78	0.3006	22.78	0.1897
	QPSK DFT-s-OFDM	1	1	24.72	0.2965	22.72	0.1871
		1	23	24.75	0.2985	22.75	0.1884
		12	6	24.76	0.2992	22.76	0.1888
	16QAM DFT-s-OFDM	1	1	23.69	0.2339	21.69	0.1476
		1	23	23.56	0.227	21.56	0.1432
		12	6	23.76	0.2377	21.76	0.15
	64QAM DFT-s-OFDM	1	1	22.75	0.1884	20.75	0.1189
		1	23	22.21	0.1663	20.21	0.105
		12	6	22.49	0.1774	20.49	0.1119
256QAM DFT-s-OFDM	1	1	20.06	0.1014	18.06	0.064	
	1	23	20.20	0.1047	18.20	0.0661	
	12	6	20.23	0.1054	18.23	0.0665	
QPSK CP-s-OFDM	1	1	23.21	0.2094	21.21	0.1321	
	1	23	22.95	0.1972	20.95	0.1245	
	13	6	23.12	0.2051	21.12	0.1294	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	24.49	0.2812	22.49	0.1774
		1	23	24.38	0.2742	22.38	0.173
		12	6	24.49	0.2812	22.49	0.1774
	QPSK DFT-s-OFDM	1	1	24.45	0.2786	22.45	0.1758
		1	23	24.09	0.2564	22.09	0.1618
		12	6	24.26	0.2667	22.26	0.1683
	16QAM DFT-s-OFDM	1	1	23.58	0.228	21.58	0.1439
		1	23	23.44	0.2208	21.44	0.1393
		12	6	23.62	0.2301	21.62	0.1452
	64QAM DFT-s-OFDM	1	1	22.44	0.1754	20.44	0.1107
		1	23	21.54	0.1426	19.54	0.0899
		12	6	22.46	0.1762	20.46	0.1112
256QAM DFT-s-OFDM	1	1	20.24	0.1057	18.24	0.0667	
	1	23	20.11	0.1026	18.11	0.0647	
	12	6	20.00	0.1	18.00	0.0631	
Limit	EIRP < 2W			Result		PASS	

5G NR n41 UL MIMO SA mode:

ULMIMO SA n41 (ANT3+ANT0)100MHz (GT - LC = 0.52 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power (dBm)	Power (Watts)	EIRP (dBm)	EIRP (W)
Lowest	QPSK CP-OFDM	1	1	25.54	0.3581	26.06	0.4037
		1	271	24.87	0.3066	25.39	0.3456
		137	68	24.95	0.3123	25.47	0.352
	16QAM CP-OFDM	1	1	24.83	0.3041	25.35	0.3428
		1	271	24.41	0.2758	24.93	0.3109
		137	68	24.48	0.2803	25.00	0.3159
	64QAM CP-OFDM	1	1	23.04	0.2012	23.56	0.2267
		1	271	22.87	0.1937	23.39	0.2184
		137	68	22.94	0.1968	23.46	0.2218
	256QAM CP-OFDM	1	1	20.07	0.1016	20.59	0.1145
		1	271	19.87	0.0971	20.39	0.1095
		137	68	19.91	0.098	20.43	0.1104
Middle	QPSK CP-OFDM	1	1	24.95	0.3123	25.47	0.352
		1	271	25.04	0.3188	25.56	0.3594
		137	68	24.92	0.3105	25.44	0.35
	16QAM CP-OFDM	1	1	24.43	0.277	24.95	0.3123
		1	271	24.59	0.288	25.11	0.3246
		137	68	24.39	0.2748	24.91	0.3098
	64QAM CP-OFDM	1	1	23.15	0.2064	23.67	0.2326
		1	271	23.00	0.1993	23.52	0.2247
		137	68	22.85	0.1925	23.37	0.217
	256QAM CP-OFDM	1	1	20.02	0.1005	20.54	0.1133
		1	271	19.74	0.0941	20.26	0.1061
		137	68	19.85	0.0966	20.37	0.1089
Highest	QPSK CP-OFDM	1	1	24.87	0.3066	25.39	0.3456
		1	271	24.83	0.3041	25.35	0.3428
		137	68	24.79	0.301	25.31	0.3393
	16QAM CP-OFDM	1	1	24.33	0.2708	24.85	0.3052
		1	271	24.08	0.2559	24.60	0.2884
		137	68	24.35	0.272	24.87	0.3066
	64QAM CP-OFDM	1	1	22.92	0.1957	23.44	0.2206
		1	271	22.66	0.1843	23.18	0.2077
		135	67	22.86	0.1932	23.38	0.2178
	256QAM CP-OFDM	1	1	20.04	0.101	20.56	0.1139
		1	271	20.02	0.1004	20.54	0.1131
		135	67	19.87	0.097	20.39	0.1093
Limit	EIRP < 2W			Result		PASS	

MIMO Gain= $10 \cdot \log \{10^{(\text{Ant } 3/10)} + 10^{(\text{Ant } 0/10)}\}$

ULMIMO SA n41 (ANT3+ANT0)90MHz (GT - LC = 0.52 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power (dBm)	Power (Watts)	EIRP (dBm)	EIRP (W)
Lowest	QPSK CP-OFDM	1	1	25.02	0.3178	25.54	0.3583
		1	243	24.70	0.2952	25.22	0.3327
		123	61	24.76	0.2989	25.28	0.3369
	16QAM CP-OFDM	1	1	24.49	0.2809	25.01	0.3166
		1	243	24.22	0.2643	24.74	0.2979
		123	61	24.23	0.2649	24.75	0.2986
	64QAM CP-OFDM	1	1	22.97	0.1982	23.49	0.2234
		1	243	22.98	0.1986	23.50	0.2239
		123	61	22.96	0.1977	23.48	0.2229
	256QAM CP-OFDM	1	1	20.03	0.1007	20.55	0.1135
		1	243	20.02	0.1004	20.54	0.1132
		123	61	19.95	0.0988	20.47	0.1114
Middle	QPSK CP-OFDM	1	1	24.72	0.2965	25.24	0.3343
		1	243	24.79	0.3013	25.31	0.3396
		123	61	24.76	0.2989	25.28	0.3369
	16QAM CP-OFDM	1	1	24.36	0.273	24.88	0.3077
		1	243	24.50	0.2816	25.02	0.3175
		123	61	24.15	0.26	24.67	0.2931
	64QAM CP-OFDM	1	1	22.83	0.1919	23.35	0.2163
		1	243	22.81	0.191	23.33	0.2153
		123	61	22.89	0.1943	23.41	0.219
	256QAM CP-OFDM	1	1	19.84	0.0963	20.36	0.1086
		1	243	19.88	0.0973	20.40	0.1097
		123	61	19.84	0.0964	20.36	0.1087
Highest	QPSK CP-OFDM	1	1	24.77	0.2996	25.29	0.3377
		1	243	24.75	0.2986	25.27	0.3365
		123	61	24.83	0.3038	25.35	0.3425
	16QAM CP-OFDM	1	1	24.32	0.2702	24.84	0.3045
		1	243	24.57	0.2864	25.09	0.3228
		123	61	24.31	0.2698	24.83	0.3041
	64QAM CP-OFDM	1	1	22.99	0.1992	23.51	0.2246
		1	243	23.03	0.2007	23.55	0.2262
		123	61	22.80	0.1904	23.32	0.2146
	256QAM CP-OFDM	1	1	20.03	0.1008	20.55	0.1136
		1	243	19.79	0.0952	20.31	0.1073
		123	61	19.78	0.095	20.30	0.107
Limit	EIRP < 2W			Result		PASS	

ULMIMO SA n41 (ANT3+ANT0)80MHz (GT - LC = 0.52 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power (dBm)	Power (Watts)	EIRP (dBm)	EIRP (W)
Lowest	QPSK CP-OFDM	1	1	24.95	0.3126	25.47	0.3524
		1	215	24.68	0.2938	25.20	0.3312
		109	54	24.45	0.2786	24.97	0.3141
	16QAM CP-OFDM	1	1	24.95	0.3126	25.47	0.3524
		1	215	24.30	0.269	24.82	0.3032
		109	54	24.31	0.2695	24.83	0.3038
	64QAM CP-OFDM	1	1	23.27	0.2125	23.79	0.2396
		1	215	22.91	0.1955	23.43	0.2203
		108	54	22.96	0.1977	23.48	0.2229
	256QAM CP-OFDM	1	1	19.97	0.0992	20.49	0.1118
		1	215	19.77	0.0949	20.29	0.1069
		108	54	19.91	0.0978	20.43	0.1103
Middle	QPSK CP-OFDM	1	1	24.78	0.3004	25.30	0.3387
		1	215	24.70	0.2954	25.22	0.3329
		109	54	24.73	0.2972	25.25	0.335
	16QAM CP-OFDM	1	1	24.16	0.2604	24.68	0.2935
		1	215	24.25	0.2658	24.77	0.2996
		109	54	24.21	0.2637	24.73	0.2972
	64QAM CP-OFDM	1	1	22.82	0.1912	23.34	0.2155
		1	215	22.84	0.1923	23.36	0.2168
		108	54	22.90	0.1949	23.42	0.2197
	256QAM CP-OFDM	1	1	19.91	0.098	20.43	0.1104
		1	215	19.91	0.098	20.43	0.1105
		108	54	19.88	0.0972	20.40	0.1096
Highest	QPSK CP-OFDM	1	1	24.76	0.2994	25.28	0.3375
		1	215	24.78	0.3006	25.30	0.3389
		109	54	24.83	0.3042	25.35	0.3429
	16QAM CP-OFDM	1	1	24.34	0.2714	24.86	0.3059
		1	215	24.35	0.2723	24.87	0.3069
		109	54	24.35	0.272	24.87	0.3066
	64QAM CP-OFDM	1	1	22.81	0.191	23.33	0.2153
		1	215	22.82	0.1914	23.34	0.2158
		108	54	22.80	0.1904	23.32	0.2147
	256QAM CP-OFDM	1	1	19.89	0.0975	20.41	0.1099
		1	215	19.91	0.0979	20.43	0.1103
		108	54	19.79	0.0953	20.31	0.1074
Limit	EIRP < 2W			Result		PASS	

ULMIMO SA n41 (ANT3+ANT0)50MHz (GT - LC = 0.52 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power (dBm)	Power (Watts)	EIRP (dBm)	EIRP (W)
Lowest	QPSK CP-OFDM	1	1	25.24	0.3344	25.76	0.377
		1	131	25.14	0.3263	25.66	0.3678
		67	33	25.22	0.3327	25.74	0.375
	16QAM CP-OFDM	1	1	24.78	0.3003	25.30	0.3385
		1	131	24.62	0.29	25.14	0.3268
		67	33	24.72	0.2962	25.24	0.3338
	64QAM CP-OFDM	1	1	23.44	0.2207	23.96	0.2488
		1	131	23.58	0.2281	24.10	0.2571
		64	32	23.31	0.2142	23.83	0.2414
	256QAM CP-OFDM	1	1	20.67	0.1167	21.19	0.1316
		1	131	20.20	0.1047	20.72	0.118
		64	32	20.23	0.1055	20.75	0.1189
Middle	QPSK CP-OFDM	1	1	25.16	0.3281	25.68	0.3699
		1	131	24.98	0.3149	25.50	0.3549
		67	33	25.04	0.3188	25.56	0.3594
	16QAM CP-OFDM	1	1	24.62	0.2894	25.14	0.3263
		1	131	24.50	0.2817	25.02	0.3175
		67	33	24.49	0.2809	25.01	0.3166
	64QAM CP-OFDM	1	1	23.33	0.2154	23.85	0.2428
		1	131	23.19	0.2085	23.71	0.235
		64	32	23.15	0.2064	23.67	0.2327
	256QAM CP-OFDM	1	1	20.36	0.1087	20.88	0.1225
		1	131	20.30	0.1073	20.82	0.1209
		64	32	20.19	0.1045	20.71	0.1178
Highest	QPSK CP-OFDM	1	1	25.11	0.3244	25.63	0.3657
		1	131	25.10	0.3237	25.62	0.3649
		67	33	25.05	0.3196	25.57	0.3603
	16QAM CP-OFDM	1	1	24.86	0.3059	25.38	0.3448
		1	131	25.12	0.3254	25.64	0.3667
		67	33	24.55	0.2852	25.07	0.3215
	64QAM CP-OFDM	1	1	23.28	0.2128	23.80	0.2398
		1	131	23.03	0.2009	23.55	0.2265
		64	32	23.05	0.2017	23.57	0.2273
	256QAM CP-OFDM	1	1	20.06	0.1014	20.58	0.1142
		1	131	20.07	0.1015	20.59	0.1144
		64	32	20.01	0.1001	20.53	0.1129
Limit	EIRP < 2W			Result		PASS	

ULMIMO SA n41 (ANT3+ANT0)40MHz (GT - LC = 0.52 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power (dBm)	Power (Watts)	EIRP (dBm)	EIRP (W)
Lowest	QPSK CP-OFDM	1	1	25.33	0.341	25.85	0.3844
		1	104	25.29	0.3378	25.81	0.3807
		53	26	25.27	0.3365	25.79	0.3794
	16QAM CP-OFDM	1	1	24.75	0.2987	25.27	0.3367
		1	104	24.76	0.2992	25.28	0.3373
		53	26	24.82	0.3034	25.34	0.342
	64QAM CP-OFDM	1	1	23.58	0.2281	24.10	0.2571
		1	104	23.44	0.2208	23.96	0.2489
		53	26	23.35	0.2161	23.87	0.2436
	256QAM CP-OFDM	1	1	20.56	0.1138	21.08	0.1283
		1	104	20.33	0.1078	20.85	0.1215
		53	26	21.48	0.1406	22.00	0.1585
Middle	QPSK CP-OFDM	1	1	24.53	0.284	25.05	0.3201
		1	104	25.16	0.3279	25.68	0.3696
		53	26	25.10	0.3233	25.62	0.3644
	16QAM CP-OFDM	1	1	24.71	0.2955	25.23	0.3331
		1	104	24.83	0.3039	25.35	0.3425
		53	26	24.44	0.278	24.96	0.3134
	64QAM CP-OFDM	1	1	23.24	0.2109	23.76	0.2377
		1	104	23.03	0.2007	23.55	0.2262
		53	26	23.30	0.2136	23.82	0.2408
	256QAM CP-OFDM	1	1	20.45	0.1108	20.97	0.1249
		1	104	20.54	0.1133	21.06	0.1277
		53	26	20.24	0.1057	20.76	0.1192
Highest	QPSK CP-OFDM	1	1	25.39	0.3457	25.91	0.3897
		1	104	25.34	0.3421	25.86	0.3856
		53	26	25.28	0.337	25.80	0.3798
	16QAM CP-OFDM	1	1	24.92	0.3102	25.44	0.3497
		1	104	24.76	0.2992	25.28	0.3372
		53	26	24.82	0.3031	25.34	0.3416
	64QAM CP-OFDM	1	1	23.40	0.2188	23.92	0.2466
		1	104	23.07	0.2028	23.59	0.2286
		53	26	23.28	0.2126	23.80	0.2396
	256QAM CP-OFDM	1	1	20.27	0.1064	20.79	0.12
		1	104	20.42	0.11	20.94	0.124
		53	26	20.24	0.1057	20.76	0.1191
Limit	EIRP < 2W			Result		PASS	

ULMIMO SA n41 (ANT3+ANT0)30MHz (GT - LC = 0.52 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power (dBm)	Power (Watts)	EIRP (dBm)	EIRP (W)
Lowest	QPSK CP-OFDM	1	1	25.49	0.3537	26.01	0.3986
		1	76	25.23	0.3331	25.75	0.3755
		39	19	25.25	0.3346	25.77	0.3772
	16QAM CP-OFDM	1	1	24.99	0.3153	25.51	0.3554
		1	76	24.88	0.3077	25.40	0.3469
		39	19	24.75	0.2986	25.27	0.3365
	64QAM CP-OFDM	1	1	23.33	0.2151	23.85	0.2424
		1	76	23.46	0.2216	23.98	0.2498
		36	18	23.33	0.2151	23.85	0.2425
	256QAM CP-OFDM	1	1	20.48	0.1116	21.00	0.1258
		1	76	20.59	0.1146	21.11	0.1291
		36	18	20.31	0.1074	20.83	0.121
Middle	QPSK CP-OFDM	1	1	25.04	0.3192	25.56	0.3598
		1	76	25.19	0.3301	25.71	0.3721
		39	19	25.09	0.3225	25.61	0.3636
	16QAM CP-OFDM	1	1	24.62	0.2894	25.14	0.3262
		1	76	24.91	0.3098	25.43	0.3492
		39	19	24.41	0.2758	24.93	0.3109
	64QAM CP-OFDM	1	1	23.48	0.2227	24.00	0.251
		1	76	23.52	0.2252	24.04	0.2538
		36	18	23.29	0.2131	23.81	0.2402
	256QAM CP-OFDM	1	1	20.39	0.1093	20.91	0.1232
		1	76	20.30	0.1071	20.82	0.1207
		36	18	20.28	0.1065	20.80	0.1201
Highest	QPSK CP-OFDM	1	1	25.23	0.3331	25.75	0.3755
		1	76	25.46	0.3517	25.98	0.3964
		39	19	25.19	0.33	25.71	0.372
	16QAM CP-OFDM	1	1	24.79	0.3014	25.31	0.3397
		1	76	24.74	0.2981	25.26	0.336
		39	19	24.65	0.2915	25.17	0.3286
	64QAM CP-OFDM	1	1	23.43	0.2204	23.95	0.2484
		1	76	23.18	0.2078	23.70	0.2342
		36	18	23.21	0.2094	23.73	0.2361
	256QAM CP-OFDM	1	1	20.32	0.1075	20.84	0.1212
		1	76	21.23	0.1327	21.75	0.1496
		36	18	20.20	0.1046	20.72	0.1179
Limit	EIRP < 2W			Result		PASS	

ULMIMO SA n41 (ANT3+ANT0)20MHz (GT - LC = 0.52 dB)							
Channel	Mode	NR		Conducted		EIRP	
		RB					
		Size	Offset	Power (dBm)	Power (Watts)	EIRP (dBm)	EIRP (W)
Lowest	QPSK CP-OFDM	1	1	25.20	0.3308	25.72	0.3729
		1	49	25.06	0.3207	25.58	0.3615
		25	12	25.19	0.33	25.71	0.372
	16QAM CP-OFDM	1	1	24.65	0.2919	25.17	0.329
		1	49	24.66	0.2922	25.18	0.3294
		25	12	24.79	0.301	25.31	0.3393
	64QAM CP-OFDM	1	1	23.52	0.2247	24.04	0.2533
		1	49	23.30	0.2138	23.82	0.241
		25	12	23.36	0.2167	23.88	0.2442
	256QAM CP-OFDM	1	1	20.68	0.117	21.20	0.1319
		1	49	20.44	0.1106	20.96	0.1247
		25	12	20.31	0.1075	20.83	0.1212
Middle	QPSK CP-OFDM	1	1	24.99	0.3155	25.51	0.3557
		1	49	24.64	0.2908	25.16	0.3278
		25	12	24.99	0.3156	25.51	0.3557
	16QAM CP-OFDM	1	1	24.48	0.2807	25.00	0.3164
		1	49	24.39	0.2748	24.91	0.3098
		25	12	24.22	0.2643	24.74	0.298
	64QAM CP-OFDM	1	1	23.29	0.2131	23.81	0.2402
		1	49	23.25	0.2112	23.77	0.2381
		25	12	23.19	0.2083	23.71	0.2348
	256QAM CP-OFDM	1	1	20.27	0.1063	20.79	0.1198
		1	49	20.23	0.1053	20.75	0.1187
		25	12	20.12	0.1028	20.64	0.1159
Highest	QPSK CP-OFDM	1	1	25.03	0.3184	25.55	0.3589
		1	49	24.84	0.3045	25.36	0.3432
		25	12	24.93	0.3108	25.45	0.3504
	16QAM CP-OFDM	1	1	24.50	0.2819	25.02	0.3177
		1	49	24.49	0.2809	25.01	0.3166
		25	12	24.55	0.2851	25.07	0.3214
	64QAM CP-OFDM	1	1	23.42	0.2199	23.94	0.2479
		1	49	22.89	0.1947	23.41	0.2194
		25	12	23.12	0.2051	23.64	0.2312
	256QAM CP-OFDM	1	1	20.26	0.1061	20.78	0.1195
		1	49	19.87	0.0971	20.39	0.1094
		25	12	20.10	0.1023	20.62	0.1154
Limit	EIRP < 2W			Result		PASS	

5G NR n71 SA mode:

SA n71 (ANT1)20MHz (GT - LC = -4 dB)							
Channel	Mode	NR		Conducted		ERP	
		RB					
		Size	Offset	Power (dBm)	Power (Watts)	ERP (dBm)	ERP (W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	24.55	0.2851	18.40	0.0692
		1	104	24.07	0.2553	17.92	0.0619
		50	25	24.19	0.2624	18.04	0.0637
	QPSK DFT-s-OFDM	1	1	24.08	0.2559	17.93	0.0621
		1	104	24.09	0.2564	17.94	0.0622
		50	25	24.21	0.2636	18.06	0.064
	16QAM DFT-s-OFDM	1	1	23.33	0.2153	17.18	0.0522
		1	104	23.21	0.2094	17.06	0.0508
		50	25	23.37	0.2173	17.22	0.0527
	64QAM DFT-s-OFDM	1	1	22.04	0.16	15.89	0.0388
		1	104	22.20	0.166	16.05	0.0403
		50	25	22.13	0.1633	15.98	0.0396
	256QAM DFT-s-OFDM	1	1	19.27	0.0845	13.12	0.0205
		1	104	18.94	0.0783	12.79	0.019
		50	25	19.12	0.0817	12.97	0.0198
Middle	PI/2 BPSK DFT-s-OFDM	1	1	24.32	0.2704	18.17	0.0656
		1	104	23.85	0.2427	17.70	0.0589
		50	25	24.19	0.2624	18.04	0.0637
	QPSK DFT-s-OFDM	1	1	24.31	0.2698	18.16	0.0655
		1	104	23.91	0.246	17.76	0.0597
		50	25	24.15	0.26	18.00	0.0631
	16QAM DFT-s-OFDM	1	1	23.56	0.227	17.41	0.0551
		1	104	23.42	0.2198	17.27	0.0533
		50	25	23.41	0.2193	17.26	0.0532
	64QAM DFT-s-OFDM	1	1	21.84	0.1528	15.69	0.0371
		1	104	21.85	0.1531	15.70	0.0372
		50	25	21.92	0.1556	15.77	0.0378
	256QAM DFT-s-OFDM	1	1	19.12	0.0817	12.97	0.0198
		1	104	18.94	0.0783	12.79	0.019
		50	25	19.22	0.0836	13.07	0.0203
QPSK CP-s-OFDM	1	1	22.18	0.1652	16.03	0.0401	
	1	104	21.82	0.1521	15.67	0.0369	
	53	26	21.58	0.1439	15.43	0.0349	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	24.23	0.2649	18.08	0.0643
		1	104	23.72	0.2355	17.57	0.0571
		50	25	24.01	0.2518	17.86	0.0611
	QPSK DFT-s-OFDM	1	1	24.25	0.2661	18.10	0.0646
		1	104	23.71	0.235	17.56	0.057
		50	25	23.93	0.2472	17.78	0.06
	16QAM DFT-s-OFDM	1	1	23.36	0.2168	17.21	0.0526
		1	104	23.39	0.2183	17.24	0.053
		50	25	23.22	0.2099	17.07	0.0509
	64QAM DFT-s-OFDM	1	1	21.94	0.1563	15.79	0.0379
		1	104	22.11	0.1626	15.96	0.0394
		50	25	22.14	0.1637	15.99	0.0397
	256QAM DFT-s-OFDM	1	1	19.43	0.0877	13.28	0.0213
		1	104	19.27	0.0845	13.12	0.0205
		50	25	19.25	0.0841	13.10	0.0204
Limit	ERP < 3W			Result		PASS	

SA n71 (ANT1)15MHz (GT - LC = -4 dB)							
Channel	Mode	NR		Conducted		ERP	
		RB					
		Size	Offset	Power (dBm)	Power (Watts)	ERP (dBm)	ERP (W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	24.54	0.2844	18.39	0.069
		1	77	24.15	0.26	18.00	0.0631
		36	18	24.31	0.2698	18.16	0.0655
	QPSK DFT-s-OFDM	1	1	24.17	0.2612	18.02	0.0634
		1	77	23.77	0.2382	17.62	0.0578
		36	18	24.16	0.2606	18.01	0.0632
	16QAM DFT-s-OFDM	1	1	23.39	0.2183	17.24	0.053
		1	77	23.42	0.2198	17.27	0.0533
		36	18	23.24	0.2109	17.09	0.0512
	64QAM DFT-s-OFDM	1	1	22.08	0.1614	15.93	0.0392
		1	77	21.89	0.1545	15.74	0.0375
		36	18	22.12	0.1629	15.97	0.0395
	256QAM DFT-s-OFDM	1	1	19.51	0.0893	13.36	0.0217
		1	77	19.29	0.0849	13.14	0.0206
		36	18	19.10	0.0813	12.95	0.0197
Middle	PI/2 BPSK DFT-s-OFDM	1	1	24.27	0.2673	18.12	0.0649
		1	77	23.85	0.2427	17.70	0.0589
		36	18	24.19	0.2624	18.04	0.0637
	QPSK DFT-s-OFDM	1	1	24.24	0.2655	18.09	0.0644
		1	77	23.83	0.2415	17.68	0.0586
		36	18	24.23	0.2649	18.08	0.0643
	16QAM DFT-s-OFDM	1	1	23.44	0.2208	17.29	0.0536
		1	77	23.18	0.208	17.03	0.0505
		36	18	23.90	0.2455	17.75	0.0596
	64QAM DFT-s-OFDM	1	1	21.78	0.1507	15.63	0.0366
		1	77	21.77	0.1503	15.62	0.0365
		36	18	21.91	0.1552	15.76	0.0377
	256QAM DFT-s-OFDM	1	1	19.28	0.0847	13.13	0.0206
		1	77	19.21	0.0834	13.06	0.0202
		36	18	19.23	0.0838	13.08	0.0203
QPSK CP-s-OFDM	1	1	22.11	0.1626	15.96	0.0394	
	1	77	21.89	0.1545	15.74	0.0375	
	39	19	21.03	0.1268	14.88	0.0308	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	24.04	0.2535	17.89	0.0615
		1	77	23.65	0.2317	17.50	0.0562
		36	18	23.92	0.2466	17.77	0.0598
	QPSK DFT-s-OFDM	1	1	24.05	0.2541	17.90	0.0617
		1	77	23.70	0.2344	17.55	0.0569
		36	18	23.87	0.2438	17.72	0.0592
	16QAM DFT-s-OFDM	1	1	23.31	0.2143	17.16	0.052
		1	77	23.42	0.2198	17.27	0.0533
		36	18	23.46	0.2218	17.31	0.0538
	64QAM DFT-s-OFDM	1	1	22.12	0.1629	15.97	0.0395
		1	77	21.69	0.1476	15.54	0.0358
		36	18	21.77	0.1503	15.62	0.0365
	256QAM DFT-s-OFDM	1	1	19.32	0.0855	13.17	0.0207
		1	77	19.16	0.0824	13.01	0.02
		36	18	19.19	0.083	13.04	0.0201
Limit	ERP < 3W			Result		PASS	

SA n71 (ANT1)10MHz (GT - LC = -4 dB)							
Channel	Mode	NR		Conducted		ERP	
		RB					
		Size	Offset	Power (dBm)	Power (Watts)	ERP (dBm)	ERP (W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	23.84	0.2421	17.69	0.0587
		1	50	23.98	0.25	17.83	0.0607
		25	12	24.18	0.2618	18.03	0.0635
	QPSK DFT-s-OFDM	1	1	23.91	0.246	17.76	0.0597
		1	50	24.02	0.2523	17.87	0.0612
		25	12	24.21	0.2636	18.06	0.064
	16QAM DFT-s-OFDM	1	1	23.41	0.2193	17.26	0.0532
		1	50	23.56	0.227	17.41	0.0551
		25	12	23.25	0.2113	17.10	0.0513
	64QAM DFT-s-OFDM	1	1	21.67	0.1469	15.52	0.0356
		1	50	22.06	0.1607	15.91	0.039
		25	12	21.74	0.1493	15.59	0.0362
	256QAM DFT-s-OFDM	1	1	19.17	0.0826	13.02	0.02
		1	50	19.32	0.0855	13.17	0.0207
		25	12	19.12	0.0817	12.97	0.0198
Middle	PI/2 BPSK DFT-s-OFDM	1	1	24.12	0.2582	17.97	0.0627
		1	50	23.91	0.246	17.76	0.0597
		25	12	24.06	0.2547	17.91	0.0618
	QPSK DFT-s-OFDM	1	1	24.11	0.2576	17.96	0.0625
		1	50	23.88	0.2443	17.73	0.0593
		25	12	24.02	0.2523	17.87	0.0612
	16QAM DFT-s-OFDM	1	1	23.79	0.2393	17.64	0.0581
		1	50	23.28	0.2128	17.13	0.0516
		25	12	23.30	0.2138	17.15	0.0519
	64QAM DFT-s-OFDM	1	1	21.83	0.1524	15.68	0.037
		1	50	21.75	0.1496	15.60	0.0363
		25	12	21.82	0.1521	15.67	0.0369
	256QAM DFT-s-OFDM	1	1	19.18	0.0828	13.03	0.0201
		1	50	19.32	0.0855	13.17	0.0207
		25	12	19.21	0.0834	13.06	0.0202
QPSK CP-s-OFDM	1	1	21.91	0.1552	15.76	0.0377	
	1	50	21.97	0.1574	15.82	0.0382	
	26	13	21.69	0.1476	15.54	0.0358	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	23.96	0.2489	17.81	0.0604
		1	50	23.62	0.2301	17.47	0.0558
		25	12	23.82	0.241	17.67	0.0585
	QPSK DFT-s-OFDM	1	1	23.87	0.2438	17.72	0.0592
		1	50	23.65	0.2317	17.50	0.0562
		25	12	23.82	0.241	17.67	0.0585
	16QAM DFT-s-OFDM	1	1	23.25	0.2113	17.10	0.0513
		1	50	23.69	0.2339	17.54	0.0568
		25	12	23.64	0.2312	17.49	0.0561
	64QAM DFT-s-OFDM	1	1	22.17	0.1648	16.02	0.04
		1	50	21.79	0.151	15.64	0.0366
		25	12	22.02	0.1592	15.87	0.0386
	256QAM DFT-s-OFDM	1	1	19.19	0.083	13.04	0.0201
		1	50	19.35	0.0861	13.20	0.0209
		25	12	19.21	0.0834	13.06	0.0202
Limit	ERP < 3W			Result		PASS	

SA n71 (ANT1)5MHz (GT - LC = -4 dB)								
Channel	Mode	NR		Conducted		ERP		
		RB						
		Size	Offset	Power (dBm)	Power (Watts)	ERP (dBm)	ERP (W)	
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	24.45	0.2786	18.30	0.0676	
		1	23	23.33	0.2153	17.18	0.0522	
		12	6	24.35	0.2723	18.20	0.0661	
	QPSK DFT-s-OFDM	1	1	23.85	0.2427	17.70	0.0589	
		1	23	24.12	0.2582	17.97	0.0627	
		12	6	24.01	0.2518	17.86	0.0611	
	16QAM DFT-s-OFDM	1	1	23.87	0.2438	17.72	0.0592	
		1	23	23.86	0.2432	17.71	0.059	
		12	6	23.21	0.2094	17.06	0.0508	
	64QAM DFT-s-OFDM	1	1	22.04	0.16	15.89	0.0388	
		1	23	21.67	0.1469	15.52	0.0356	
		12	6	21.79	0.151	15.64	0.0366	
	256QAM DFT-s-OFDM	1	1	19.13	0.0818	12.98	0.0199	
		1	23	19.33	0.0857	13.18	0.0208	
		12	6	19.21	0.0834	13.06	0.0202	
	Middle	PI/2 BPSK DFT-s-OFDM	1	1	24.04	0.2535	17.89	0.0615
			1	23	24.01	0.2518	17.86	0.0611
			12	6	24.02	0.2523	17.87	0.0612
QPSK DFT-s-OFDM		1	1	24.22	0.2642	18.07	0.0641	
		1	23	23.91	0.246	17.76	0.0597	
		12	6	24.09	0.2564	17.94	0.0622	
16QAM DFT-s-OFDM		1	1	23.19	0.2084	17.04	0.0506	
		1	23	23.39	0.2183	17.24	0.053	
		12	6	23.42	0.2198	17.27	0.0533	
64QAM DFT-s-OFDM		1	1	21.76	0.15	15.61	0.0364	
		1	23	22.21	0.1663	16.06	0.0404	
		12	6	21.98	0.1578	15.83	0.0383	
256QAM DFT-s-OFDM		1	1	19.34	0.0859	13.19	0.0208	
		1	23	19.05	0.0804	12.90	0.0195	
		12	6	19.21	0.0834	13.06	0.0202	
QPSK CP-s-OFDM		1	1	21.76	0.15	15.61	0.0364	
		1	23	21.92	0.1556	15.77	0.0378	
		13	6	21.81	0.1517	15.66	0.0368	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	23.88	0.2443	17.73	0.0593	
		1	23	23.66	0.2323	17.51	0.0564	
		12	6	23.73	0.236	17.58	0.0573	
	QPSK DFT-s-OFDM	1	1	23.97	0.2495	17.82	0.0605	
		1	23	23.65	0.2317	17.50	0.0562	
		12	6	23.71	0.235	17.56	0.057	
	16QAM DFT-s-OFDM	1	1	23.17	0.2075	17.02	0.0504	
		1	23	23.32	0.2148	17.17	0.0521	
		12	6	23.35	0.2163	17.20	0.0525	
	64QAM DFT-s-OFDM	1	1	22.17	0.1648	16.02	0.04	
		1	23	21.98	0.1578	15.83	0.0383	
		12	6	21.71	0.1483	15.56	0.036	
	256QAM DFT-s-OFDM	1	1	19.45	0.0881	13.30	0.0214	
		1	23	19.10	0.0813	12.95	0.0197	
		12	6	19.16	0.0824	13.01	0.02	
Limit	ERP < 3W			Result		PASS		

5G NR n77 SA mode:

SA n77 (ANT7)100MHz (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	23.72	0.2355	21.72	0.1486
		1	271	23.68	0.2333	21.68	0.1472
		135	67	23.98	0.25	21.98	0.1578
	QPSK DFT-s-OFDM	1	1	23.84	0.2421	21.84	0.1528
		1	271	23.92	0.2466	21.92	0.1556
		135	67	23.89	0.2449	21.89	0.1545
	16QAM DFT-s-OFDM	1	1	23.52	0.2249	21.52	0.1419
		1	271	23.62	0.2301	21.62	0.1452
		135	67	23.58	0.228	21.58	0.1439
	64QAM DFT-s-OFDM	1	1	22.16	0.1644	20.16	0.1038
		1	271	21.94	0.1563	19.94	0.0986
		135	67	22.06	0.1607	20.06	0.1014
	256QAM DFT-s-OFDM	1	1	20.30	0.1072	18.30	0.0676
		1	271	19.93	0.0984	17.93	0.0621
		135	67	19.94	0.0986	17.94	0.0622
Middle	PI/2 BPSK DFT-s-OFDM	1	1	24.43	0.2773	22.43	0.175
		1	271	24.47	0.2799	22.47	0.1766
		135	67	24.38	0.2742	22.38	0.173
	QPSK DFT-s-OFDM	1	1	24.46	0.2793	22.46	0.1762
		1	271	24.55	0.2851	22.55	0.1799
		135	67	24.34	0.2716	22.34	0.1714
	16QAM DFT-s-OFDM	1	1	24.13	0.2588	22.13	0.1633
		1	271	24.24	0.2655	22.24	0.1675
		135	67	24.09	0.2564	22.09	0.1618
	64QAM DFT-s-OFDM	1	1	22.82	0.1914	20.82	0.1208
		1	271	22.72	0.1871	20.72	0.118
		135	67	22.72	0.1871	20.72	0.118
	256QAM DFT-s-OFDM	1	1	21.02	0.1265	19.02	0.0798
		1	271	20.81	0.1205	18.81	0.076
		135	67	20.65	0.1161	18.65	0.0733
QPSK CP-s-OFDM	1	1	23.97	0.2495	21.97	0.1574	
	1	271	23.63	0.2307	21.63	0.1455	
	137	68	23.77	0.2382	21.77	0.1503	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	24.39	0.2748	22.39	0.1734
		1	271	24.37	0.2735	22.37	0.1726
		135	67	24.53	0.2838	22.53	0.1791
	QPSK DFT-s-OFDM	1	1	24.37	0.2735	22.37	0.1726
		1	271	24.32	0.2704	22.32	0.1706
		135	67	24.80	0.302	22.80	0.1905
	16QAM DFT-s-OFDM	1	1	24.45	0.2786	22.45	0.1758
		1	271	24.04	0.2535	22.04	0.16
		135	67	24.21	0.2636	22.21	0.1663
	64QAM DFT-s-OFDM	1	1	23.11	0.2046	21.11	0.1291
		1	271	23.03	0.2009	21.03	0.1268
		135	67	22.63	0.1832	20.63	0.1156
	256QAM DFT-s-OFDM	1	1	21.13	0.1297	19.13	0.0818
		1	271	20.76	0.1191	18.76	0.0752
		135	67	20.69	0.1172	18.69	0.074
Limit	EIRP < 2W			Result		PASS	

SA n77 (ANT7)90MHz (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	23.94	0.2477	21.94	0.1563	
		1	243	23.79	0.2393	21.79	0.151	
		120	60	23.83	0.2415	21.83	0.1524	
	QPSK DFT-s-OFDM	1	1	23.94	0.2477	21.94	0.1563	
		1	243	23.71	0.235	21.71	0.1483	
		120	60	23.81	0.2404	21.81	0.1517	
	16QAM DFT-s-OFDM	1	1	23.51	0.2244	21.51	0.1416	
		1	243	23.42	0.2198	21.42	0.1387	
		120	60	23.47	0.2223	21.47	0.1403	
	64QAM DFT-s-OFDM	1	1	22.09	0.1618	20.09	0.1021	
		1	243	22.26	0.1683	20.26	0.1062	
		120	60	21.94	0.1563	19.94	0.0986	
	256QAM DFT-s-OFDM	1	1	20.12	0.1028	18.12	0.0649	
		1	243	20.08	0.1019	18.08	0.0643	
		120	60	20.10	0.1023	18.10	0.0646	
	Middle	PI/2 BPSK DFT-s-OFDM	1	1	24.43	0.2773	22.43	0.175
			1	243	24.58	0.2871	22.58	0.1811
			120	60	24.60	0.2884	22.60	0.182
QPSK DFT-s-OFDM		1	1	24.46	0.2793	22.46	0.1762	
		1	243	24.45	0.2786	22.45	0.1758	
		120	60	24.63	0.2904	22.63	0.1832	
16QAM DFT-s-OFDM		1	1	24.16	0.2606	22.16	0.1644	
		1	243	24.22	0.2642	22.22	0.1667	
		120	60	24.15	0.26	22.15	0.1641	
64QAM DFT-s-OFDM		1	1	23.12	0.2051	21.12	0.1294	
		1	243	22.68	0.1854	20.68	0.1169	
		120	60	22.61	0.1824	20.61	0.1151	
256QAM DFT-s-OFDM		1	1	21.10	0.1288	19.10	0.0813	
		1	243	20.95	0.1245	18.95	0.0785	
		120	60	20.86	0.1219	18.86	0.0769	
QPSK CP-s-OFDM		1	1	23.77	0.2382	21.77	0.1503	
		1	243	23.91	0.246	21.91	0.1552	
		123	61	23.60	0.2291	21.60	0.1445	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	24.62	0.2897	22.62	0.1828	
		1	243	24.15	0.26	22.15	0.1641	
		120	60	24.41	0.2761	22.41	0.1742	
	QPSK DFT-s-OFDM	1	1	24.49	0.2812	22.49	0.1774	
		1	243	24.16	0.2606	22.16	0.1644	
		120	60	24.45	0.2786	22.45	0.1758	
	16QAM DFT-s-OFDM	1	1	24.13	0.2588	22.13	0.1633	
		1	243	24.04	0.2535	22.04	0.16	
		120	60	24.25	0.2661	22.25	0.1679	
	64QAM DFT-s-OFDM	1	1	22.93	0.1963	20.93	0.1239	
		1	243	23.00	0.1995	21.00	0.1259	
		120	60	22.89	0.1945	20.89	0.1227	
	256QAM DFT-s-OFDM	1	1	20.97	0.125	18.97	0.0789	
		1	243	20.46	0.1112	18.46	0.0701	
		120	60	20.79	0.1199	18.79	0.0757	
Limit	EIRP < 2W			Result		PASS		

SA n77 (ANT7)80MHz (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	23.65	0.2317	21.65	0.1462
		1	215	23.66	0.2323	21.66	0.1466
		108	54	23.72	0.2355	21.72	0.1486
	QPSK DFT-s-OFDM	1	1	23.82	0.241	21.82	0.1521
		1	215	23.77	0.2382	21.77	0.1503
		108	54	23.67	0.2328	21.67	0.1469
	16QAM DFT-s-OFDM	1	1	23.62	0.2301	21.62	0.1452
		1	215	23.74	0.2366	21.74	0.1493
		108	54	23.47	0.2223	21.47	0.1403
	64QAM DFT-s-OFDM	1	1	22.29	0.1694	20.29	0.1069
		1	215	21.88	0.1542	19.88	0.0973
		108	54	21.86	0.1535	19.86	0.0968
	256QAM DFT-s-OFDM	1	1	20.27	0.1064	18.27	0.0671
		1	215	20.23	0.1054	18.23	0.0665
		108	54	20.09	0.1021	18.09	0.0644
Middle	PI/2 BPSK DFT-s-OFDM	1	1	24.31	0.2698	22.31	0.1702
		1	215	24.33	0.271	22.33	0.171
		108	54	24.32	0.2704	22.32	0.1706
	QPSK DFT-s-OFDM	1	1	24.25	0.2661	22.25	0.1679
		1	215	24.39	0.2748	22.39	0.1734
		108	54	24.41	0.2761	22.41	0.1742
	16QAM DFT-s-OFDM	1	1	24.24	0.2655	22.24	0.1675
		1	215	24.16	0.2606	22.16	0.1644
		108	54	24.27	0.2673	22.27	0.1687
	64QAM DFT-s-OFDM	1	1	23.12	0.2051	21.12	0.1294
		1	215	22.85	0.1928	20.85	0.1216
		108	54	22.56	0.1803	20.56	0.1138
	256QAM DFT-s-OFDM	1	1	21.13	0.1297	19.13	0.0818
		1	215	20.92	0.1236	18.92	0.078
		108	54	20.82	0.1208	18.82	0.0762
QPSK CP-s-OFDM	1	1	23.92	0.2466	21.92	0.1556	
	1	215	23.95	0.2483	21.95	0.1567	
	109	54	23.69	0.2339	21.69	0.1476	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	24.56	0.2858	22.56	0.1803
		1	215	24.37	0.2735	22.37	0.1726
		108	54	24.56	0.2858	22.56	0.1803
	QPSK DFT-s-OFDM	1	1	24.68	0.2938	22.68	0.1854
		1	215	24.45	0.2786	22.45	0.1758
		108	54	24.51	0.2825	22.51	0.1782
	16QAM DFT-s-OFDM	1	1	24.19	0.2624	22.19	0.1656
		1	215	24.09	0.2564	22.09	0.1618
		108	54	24.30	0.2692	22.30	0.1698
	64QAM DFT-s-OFDM	1	1	22.97	0.1982	20.97	0.125
		1	215	22.90	0.195	20.90	0.123
		108	54	22.70	0.1862	20.70	0.1175
	256QAM DFT-s-OFDM	1	1	21.05	0.1274	19.05	0.0804
		1	215	20.46	0.1112	18.46	0.0701
		108	54	20.89	0.1227	18.89	0.0774
Limit	EIRP < 2W			Result		PASS	

SA n77 (ANT7)50MHz (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	131	24.11	0.2576	22.11	0.1626
		64	32	24.70	0.2951	22.70	0.1862
	QPSK DFT-s-OFDM	1	1	24.13	0.2588	22.13	0.1633
		1	131	24.05	0.2541	22.05	0.1603
		64	32	24.75	0.2985	22.75	0.1884
	16QAM DFT-s-OFDM	1	1	23.49	0.2234	21.49	0.1409
		1	131	23.50	0.2239	21.50	0.1413
		64	32	23.53	0.2254	21.53	0.1422
	64QAM DFT-s-OFDM	1	1	22.10	0.1622	20.10	0.1023
		1	131	22.20	0.166	20.20	0.1047
		64	32	22.02	0.1592	20.02	0.1005
	256QAM DFT-s-OFDM	1	1	20.00	0.1	18.00	0.0631
		1	131	20.13	0.103	18.13	0.065
		64	32	20.05	0.1012	18.05	0.0638
Middle	PI/2 BPSK DFT-s-OFDM	1	1	24.78	0.3006	22.78	0.1897
		1	131	24.72	0.2965	22.72	0.1871
		64	32	24.76	0.2992	22.76	0.1888
	QPSK DFT-s-OFDM	1	1	24.55	0.2851	22.55	0.1799
		1	131	24.58	0.2871	22.58	0.1811
		64	32	24.74	0.2979	22.74	0.1879
	16QAM DFT-s-OFDM	1	1	24.27	0.2673	22.27	0.1687
		1	131	24.04	0.2535	22.04	0.16
		64	32	24.28	0.2679	22.28	0.169
	64QAM DFT-s-OFDM	1	1	22.92	0.1959	20.92	0.1236
		1	131	23.08	0.2032	21.08	0.1282
		64	32	22.59	0.1816	20.59	0.1146
	256QAM DFT-s-OFDM	1	1	21.15	0.1303	19.15	0.0822
		1	131	20.55	0.1135	18.55	0.0716
		64	32	20.85	0.1216	18.85	0.0767
QPSK CP-s-OFDM	1	1	23.78	0.2388	21.78	0.1507	
	1	131	23.95	0.2483	21.95	0.1567	
	67	33	23.61	0.2296	21.61	0.1449	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	24.73	0.2972	22.73	0.1875
		1	131	24.78	0.3006	22.78	0.1897
		64	32	24.75	0.2985	22.75	0.1884
	QPSK DFT-s-OFDM	1	1	24.75	0.2985	22.75	0.1884
		1	131	24.72	0.2965	22.72	0.1871
		64	32	24.75	0.2985	22.75	0.1884
	16QAM DFT-s-OFDM	1	1	24.25	0.2661	22.25	0.1679
		1	131	24.29	0.2685	22.29	0.1694
		64	32	24.23	0.2649	22.23	0.1671
	64QAM DFT-s-OFDM	1	1	22.94	0.1968	20.94	0.1242
		1	131	22.77	0.1892	20.77	0.1194
		64	32	22.85	0.1928	20.85	0.1216
	256QAM DFT-s-OFDM	1	1	21.05	0.1274	19.05	0.0804
		1	131	20.64	0.1159	18.64	0.0731
		64	32	21.01	0.1262	19.01	0.0796
Limit	EIRP < 2W			Result		PASS	

SA n77 (ANT7)40MHz (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	24.48	0.2805	22.48	0.177
		1	104	24.47	0.2799	22.47	0.1766
		50	25	24.25	0.2661	22.25	0.1679
	QPSK DFT-s-OFDM	1	1	24.22	0.2642	22.22	0.1667
		1	104	24.34	0.2716	22.34	0.1714
		50	25	24.13	0.2588	22.13	0.1633
	16QAM DFT-s-OFDM	1	1	23.58	0.228	21.58	0.1439
		1	104	23.66	0.2323	21.66	0.1466
		50	25	23.47	0.2223	21.47	0.1403
	64QAM DFT-s-OFDM	1	1	21.95	0.1567	19.95	0.0989
		1	104	21.91	0.1552	19.91	0.0979
		50	25	22.00	0.1585	20.00	0.1
	256QAM DFT-s-OFDM	1	1	20.08	0.1019	18.08	0.0643
		1	104	19.93	0.0984	17.93	0.0621
		50	25	20.01	0.1002	18.01	0.0632
Middle	PI/2 BPSK DFT-s-OFDM	1	1	24.73	0.2972	22.73	0.1875
		1	104	24.74	0.2979	22.74	0.1879
		50	25	24.76	0.2992	22.76	0.1888
	QPSK DFT-s-OFDM	1	1	24.75	0.2985	22.75	0.1884
		1	104	24.72	0.2965	22.72	0.1871
		50	25	24.71	0.2958	22.71	0.1866
	16QAM DFT-s-OFDM	1	1	24.39	0.2748	22.39	0.1734
		1	104	24.24	0.2655	22.24	0.1675
		50	25	24.23	0.2649	22.23	0.1671
	64QAM DFT-s-OFDM	1	1	22.99	0.1991	20.99	0.1256
		1	104	22.89	0.1945	20.89	0.1227
		50	25	22.64	0.1837	20.64	0.1159
	256QAM DFT-s-OFDM	1	1	21.05	0.1274	19.05	0.0804
		1	104	20.66	0.1164	18.66	0.0735
		50	25	21.00	0.1259	19.00	0.0794
	QPSK CP-s-OFDM	1	1	23.92	0.2466	21.92	0.1556
		1	104	23.71	0.235	21.71	0.1483
		53	26	23.81	0.2404	21.81	0.1517
Highest	PI/2 BPSK DFT-s-OFDM	1	1	24.75	0.2985	22.75	0.1884
		1	104	24.75	0.2985	22.75	0.1884
		50	25	24.73	0.2972	22.73	0.1875
	QPSK DFT-s-OFDM	1	1	24.73	0.2972	22.73	0.1875
		1	104	24.75	0.2985	22.75	0.1884
		50	25	24.76	0.2992	22.76	0.1888
	16QAM DFT-s-OFDM	1	1	24.40	0.2754	22.40	0.1738
		1	104	24.13	0.2588	22.13	0.1633
		50	25	24.13	0.2588	22.13	0.1633
	64QAM DFT-s-OFDM	1	1	22.97	0.1982	20.97	0.125
		1	104	22.98	0.1986	20.98	0.1253
		50	25	22.79	0.1901	20.79	0.1199
	256QAM DFT-s-OFDM	1	1	21.12	0.1294	19.12	0.0817
		1	104	20.89	0.1227	18.89	0.0774
		50	25	20.77	0.1194	18.77	0.0753
Limit	EIRP < 2W			Result		PASS	

SA n77 (ANT7)30MHz (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	0.26	22.15	0.1641
		1	76	24.22	0.2642	22.22	0.1667
		36	18	24.29	0.2685	22.29	0.1694
	QPSK DFT-s-OFDM	1	1	24.19	0.2624	22.19	0.1656
		1	76	24.39	0.2748	22.39	0.1734
		36	18	24.26	0.2667	22.26	0.1683
	16QAM DFT-s-OFDM	1	1	23.59	0.2286	21.59	0.1442
		1	76	23.73	0.236	21.73	0.1489
		36	18	23.48	0.2228	21.48	0.1406
	64QAM DFT-s-OFDM	1	1	22.28	0.169	20.28	0.1067
		1	76	22.06	0.1607	20.06	0.1014
		36	18	21.92	0.1556	19.92	0.0982
	256QAM DFT-s-OFDM	1	1	19.99	0.0998	17.99	0.063
		1	76	20.18	0.1042	18.18	0.0658
		36	18	20.03	0.1007	18.03	0.0635
Middle	PI/2 BPSK DFT-s-OFDM	1	1	24.77	0.2999	22.77	0.1892
		1	76	24.75	0.2985	22.75	0.1884
		36	18	24.75	0.2985	22.75	0.1884
	QPSK DFT-s-OFDM	1	1	24.73	0.2972	22.73	0.1875
		1	76	24.76	0.2992	22.76	0.1888
		36	18	24.75	0.2985	22.75	0.1884
	16QAM DFT-s-OFDM	1	1	24.30	0.2692	22.30	0.1698
		1	76	24.31	0.2698	22.31	0.1702
		36	18	24.10	0.257	22.10	0.1622
	64QAM DFT-s-OFDM	1	1	22.85	0.1928	20.85	0.1216
		1	76	22.86	0.1932	20.86	0.1219
		36	18	22.67	0.1849	20.67	0.1167
	256QAM DFT-s-OFDM	1	1	21.10	0.1288	19.10	0.0813
		1	76	20.77	0.1194	18.77	0.0753
		36	18	20.90	0.123	18.90	0.0776
QPSK CP-s-OFDM	1	1	23.74	0.2366	21.74	0.1493	
	1	76	23.70	0.2344	21.70	0.1479	
	39	19	23.75	0.2371	21.75	0.1496	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	24.76	0.2992	22.76	0.1888
		1	76	24.76	0.2992	22.76	0.1888
		36	18	24.72	0.2965	22.72	0.1871
	QPSK DFT-s-OFDM	1	1	24.77	0.2999	22.77	0.1892
		1	76	24.73	0.2972	22.73	0.1875
		36	18	24.77	0.2999	22.77	0.1892
	16QAM DFT-s-OFDM	1	1	24.42	0.2767	22.42	0.1746
		1	76	24.30	0.2692	22.30	0.1698
		36	18	24.22	0.2642	22.22	0.1667
	64QAM DFT-s-OFDM	1	1	23.08	0.2032	21.08	0.1282
		1	76	22.69	0.1858	20.69	0.1172
		36	18	22.71	0.1866	20.71	0.1178
	256QAM DFT-s-OFDM	1	1	20.98	0.1253	18.98	0.0791
		1	76	20.49	0.1119	18.49	0.0706
		36	18	20.82	0.1208	18.82	0.0762
Limit	EIRP < 2W			Result		PASS	

SA n77 (ANT7)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	49	24.07	0.2553	22.07	0.1611
		25	12	24.14	0.2594	22.14	0.1637
	QPSK DFT-s-OFDM	1	1	24.23	0.2649	22.23	0.1671
		1	49	23.99	0.2506	21.99	0.1581
		25	12	24.06	0.2547	22.06	0.1607
	16QAM DFT-s-OFDM	1	1	23.67	0.2328	21.67	0.1469
		1	49	23.59	0.2286	21.59	0.1442
		25	12	23.47	0.2223	21.47	0.1403
	64QAM DFT-s-OFDM	1	1	21.88	0.1542	19.88	0.0973
		1	49	22.23	0.1671	20.23	0.1054
		25	12	21.83	0.1524	19.83	0.0962
	256QAM DFT-s-OFDM	1	1	20.20	0.1047	18.20	0.0661
		1	49	19.98	0.0995	17.98	0.0628
		25	12	20.12	0.1028	18.12	0.0649
Middle	PI/2 BPSK DFT-s-OFDM	1	1	24.72	0.2965	22.72	0.1871
		1	49	24.79	0.3013	22.79	0.1901
		25	12	24.76	0.2992	22.76	0.1888
	QPSK DFT-s-OFDM	1	1	24.74	0.2979	22.74	0.1879
		1	49	24.75	0.2985	22.75	0.1884
		25	12	24.76	0.2992	22.76	0.1888
	16QAM DFT-s-OFDM	1	1	24.42	0.2767	22.42	0.1746
		1	49	24.06	0.2547	22.06	0.1607
		25	12	24.13	0.2588	22.13	0.1633
	64QAM DFT-s-OFDM	1	1	22.82	0.1914	20.82	0.1208
		1	49	22.67	0.1849	20.67	0.1167
		25	12	22.68	0.1854	20.68	0.1169
	256QAM DFT-s-OFDM	1	1	20.96	0.1247	18.96	0.0787
		1	49	20.89	0.1227	18.89	0.0774
		25	12	20.86	0.1219	18.86	0.0769
QPSK CP-s-OFDM	1	1	23.93	0.2472	21.93	0.1561	
	1	49	23.78	0.2388	21.78	0.1507	
	25	12	23.77	0.2382	21.77	0.1503	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	24.79	0.3013	22.79	0.1901
		1	49	24.75	0.2985	22.75	0.1884
		25	12	24.77	0.2999	22.77	0.1892
	QPSK DFT-s-OFDM	1	1	24.79	0.3013	22.79	0.1901
		1	49	24.73	0.2972	22.73	0.1875
		25	12	24.78	0.3006	22.78	0.1897
	16QAM DFT-s-OFDM	1	1	24.18	0.2618	22.18	0.1652
		1	49	24.24	0.2655	22.24	0.1675
		25	12	24.29	0.2685	22.29	0.1694
	64QAM DFT-s-OFDM	1	1	23.02	0.2004	21.02	0.1265
		1	49	22.81	0.1911	20.81	0.1205
		25	12	22.89	0.1945	20.89	0.1227
	256QAM DFT-s-OFDM	1	1	20.96	0.1247	18.96	0.0787
		1	49	20.49	0.1119	18.49	0.0706
		25	12	20.90	0.1231	18.90	0.0776
Limit	EIRP < 2W			Result		PASS	

EN-DC n71 (ANT1)+2A (ANT3)Combination 20MHz+20MHz(LTE)(GT - LC = -4dB)										
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	23.90	0.2455	17.75	0.0596	
		1	104	1	99	23.80	0.2399	17.65	0.0582	
		50	25	100	0	23.72	0.2355	17.57	0.0571	
	QPSK DFT-s-OFDM	1	1	1	0	22.98	0.1988	16.83	0.0482	
		1	104	1	99	23.59	0.2286	17.44	0.0555	
		50	25	100	0	23.35	0.2164	17.20	0.0525	
	16QAM DFT-s-OFDM	1	1	1	0	22.51	0.178	16.36	0.0432	
		1	104	1	99	22.27	0.1685	16.12	0.0409	
		50	25	100	0	22.36	0.1721	16.21	0.0418	
	64QAM DFT-s-OFDM	1	1	1	0	20.07	0.1015	13.92	0.0246	
		1	104	1	99	20.99	0.1255	14.84	0.0304	
		50	25	100	0	20.44	0.1107	14.29	0.0269	
	256QAM DFT-s-OFDM	1	1	1	0	18.12	0.0649	11.97	0.0157	
		1	104	1	99	19.27	0.0846	13.12	0.0205	
		50	25	100	0	18.87	0.0771	12.72	0.0187	
	Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.38	0.2175	17.23	0.0528
			1	104	1	99	23.63	0.2307	17.48	0.056
			50	25	100	0	23.64	0.2312	17.49	0.0561
QPSK DFT-s-OFDM		1	1	1	0	24.19	0.2623	18.04	0.0637	
		1	104	1	99	23.59	0.2286	17.44	0.0555	
		50	25	100	0	24.25	0.2659	18.10	0.0645	
16QAM DFT-s-OFDM		1	1	1	0	22.53	0.1793	16.38	0.0435	
		1	104	1	99	22.57	0.1805	16.42	0.0438	
		50	25	100	0	22.65	0.1843	16.50	0.0447	
64QAM DFT-s-OFDM		1	1	1	0	21.36	0.1369	15.21	0.0332	
		1	104	1	99	21.03	0.1266	14.88	0.0307	
		50	25	100	0	21.32	0.1356	15.17	0.0329	
256QAM DFT-s-OFDM		1	1	1	0	19.74	0.0942	13.59	0.0228	
		1	104	1	99	19.25	0.0842	13.10	0.0204	
		50	25	100	0	19.30	0.0852	13.15	0.0207	
QPSK CP-OFDM		1	1	1	0	22.33	0.1709	16.18	0.0415	
		1	104	1	99	22.06	0.1606	15.91	0.039	
		53	26	100	0	21.89	0.1545	15.74	0.0375	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.77	0.2382	17.62	0.0578	
		1	104	1	99	23.51	0.2245	17.36	0.0545	
		50	25	100	0	23.67	0.2328	17.52	0.0565	
	QPSK DFT-s-OFDM	1	1	1	0	23.75	0.2371	17.60	0.0575	
		1	104	1	99	23.48	0.2229	17.33	0.0541	
		50	25	100	0	23.64	0.2312	17.49	0.0561	
	16QAM DFT-s-OFDM	1	1	1	0	22.27	0.1685	16.12	0.0409	
		1	104	1	99	22.05	0.1603	15.90	0.0389	
		50	25	100	0	22.67	0.1851	16.52	0.0449	
	64QAM DFT-s-OFDM	1	1	1	0	20.89	0.1227	14.74	0.0298	
		1	104	1	99	20.92	0.1235	14.77	0.03	
		50	25	100	0	21.23	0.1329	15.08	0.0322	
	256QAM DFT-s-OFDM	1	1	1	0	18.81	0.076	12.66	0.0185	
		1	104	1	99	18.98	0.079	12.83	0.0192	
		50	25	100	0	19.17	0.0827	13.02	0.0201	
Limit	ERP < 3W					Result		PASS		

EN-DC n71 (ANT1)+2A (ANT3)Combination 15MHz+20MHz(LTE)(GT - LC = -4dB)										
Channel	Mode	NR		LTE						
		RB		RB						
		Size	Offset	Size	Offset	Power(dBm)	Power(Watt)	ERP(dBm)	ERP(W)	
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.94	0.2477	17.79	0.0601	
		1	77	1	99	23.63	0.2307	17.48	0.056	
		36	18	100	0	23.89	0.2449	17.74	0.0594	
	QPSK DFT-s-OFDM	1	1	1	0	23.87	0.2438	17.72	0.0592	
		1	77	1	99	23.50	0.2239	17.35	0.0543	
		36	18	100	0	23.73	0.2361	17.58	0.0573	
	16QAM DFT-s-OFDM	1	1	1	0	22.07	0.161	15.92	0.0391	
		1	77	1	99	22.59	0.1817	16.44	0.0441	
		36	18	100	0	22.39	0.1732	16.24	0.042	
	64QAM DFT-s-OFDM	1	1	1	0	21.59	0.1442	15.44	0.035	
		1	77	1	99	21.39	0.1378	15.24	0.0334	
		36	18	100	0	21.28	0.1344	15.13	0.0326	
	256QAM DFT-s-OFDM	1	1	1	0	19.39	0.0869	13.24	0.0211	
		1	77	1	99	19.06	0.0806	12.91	0.0196	
		36	18	100	0	19.19	0.0831	13.04	0.0202	
	Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.62	0.2302	17.47	0.0559
			1	77	1	99	23.56	0.2271	17.41	0.0551
			36	18	100	0	23.61	0.2297	17.46	0.0557
QPSK DFT-s-OFDM		1	1	1	0	23.43	0.2204	17.28	0.0535	
		1	77	1	99	23.50	0.2239	17.35	0.0543	
		36	18	100	0	23.63	0.2307	17.48	0.056	
16QAM DFT-s-OFDM		1	1	1	0	22.65	0.1843	16.50	0.0447	
		1	77	1	99	22.61	0.1826	16.46	0.0443	
		36	18	100	0	22.19	0.1655	16.04	0.0402	
64QAM DFT-s-OFDM		1	1	1	0	21.34	0.1362	15.19	0.0331	
		1	77	1	99	21.24	0.1332	15.09	0.0323	
		36	18	100	0	20.62	0.1153	14.47	0.028	
256QAM DFT-s-OFDM		1	1	1	0	19.08	0.0808	12.93	0.0196	
		1	77	1	99	19.31	0.0854	13.16	0.0207	
		36	18	100	0	18.93	0.0781	12.78	0.019	
QPSK CP-OFDM		1	1	1	0	22.09	0.1617	15.94	0.0392	
		1	77	1	99	22.17	0.1647	16.02	0.04	
		39	19	100	0	21.65	0.1462	15.50	0.0355	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.76	0.2377	17.61	0.0577	
		1	77	1	99	23.40	0.2189	17.25	0.0531	
		36	18	100	0	23.73	0.2361	17.58	0.0573	
	QPSK DFT-s-OFDM	1	1	1	0	23.64	0.2312	17.49	0.0561	
		1	77	1	99	23.32	0.2149	17.17	0.0521	
		36	18	100	0	23.67	0.2329	17.52	0.0565	
	16QAM DFT-s-OFDM	1	1	1	0	22.61	0.1826	16.46	0.0443	
		1	77	1	99	22.63	0.1834	16.48	0.0445	
		36	18	100	0	22.62	0.183	16.47	0.0444	
	64QAM DFT-s-OFDM	1	1	1	0	21.18	0.1313	15.03	0.0319	
		1	77	1	99	21.15	0.1305	15.00	0.0317	
		36	18	100	0	21.14	0.1301	14.99	0.0316	
	256QAM DFT-s-OFDM	1	1	1	0	19.48	0.0887	13.33	0.0215	
		1	77	1	99	19.21	0.0834	13.06	0.0202	
		36	18	100	0	19.13	0.0819	12.98	0.0199	
	Limit	ERP < 3W					Result		PASS	

EN-DC n71 (ANT1)+2A (ANT3)Combination 10MHz+20MHz(LTE)(GT - LC = -4dB)										
Channel	Mode	NR		LTE						
		RB		RB						
		Size	Offset	Size	Offset	Power(dBm)	Power(Watt)	ERP(dBm)	ERP(W)	
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.86	0.2432	17.71	0.059	
		1	50	1	99	23.54	0.226	17.39	0.0548	
		25	12	100	0	23.78	0.2388	17.63	0.0579	
	QPSK DFT-s-OFDM	1	1	1	0	23.71	0.235	17.56	0.057	
		1	50	1	99	23.47	0.2224	17.32	0.054	
		25	12	100	0	23.25	0.2114	17.10	0.0513	
	16QAM DFT-s-OFDM	1	1	1	0	22.21	0.1662	16.06	0.0403	
		1	50	1	99	22.32	0.1705	16.17	0.0414	
		25	12	100	0	22.70	0.1864	16.55	0.0452	
	64QAM DFT-s-OFDM	1	1	1	0	21.18	0.1313	15.03	0.0319	
		1	50	1	99	21.14	0.1302	14.99	0.0316	
		25	12	100	0	21.16	0.1307	15.01	0.0317	
	256QAM DFT-s-OFDM	1	1	1	0	19.50	0.0891	13.35	0.0216	
		1	50	1	99	19.17	0.0827	13.02	0.0201	
		25	12	100	0	19.31	0.0854	13.16	0.0207	
	Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.51	0.2244	17.36	0.0545
			1	50	1	99	23.60	0.2291	17.45	0.0556
			25	12	100	0	23.61	0.2296	17.46	0.0557
QPSK DFT-s-OFDM		1	1	1	0	23.33	0.2153	17.18	0.0523	
		1	50	1	99	23.45	0.2214	17.30	0.0537	
		25	12	100	0	23.56	0.227	17.41	0.0551	
16QAM DFT-s-OFDM		1	1	1	0	22.67	0.1851	16.52	0.0449	
		1	50	1	99	22.63	0.1834	16.48	0.0445	
		25	12	100	0	22.29	0.1693	16.14	0.0411	
64QAM DFT-s-OFDM		1	1	1	0	21.00	0.1258	14.85	0.0305	
		1	50	1	99	21.57	0.1436	15.42	0.0349	
		25	12	100	0	20.68	0.1169	14.53	0.0284	
256QAM DFT-s-OFDM		1	1	1	0	19.23	0.0838	13.08	0.0203	
		1	50	1	99	19.25	0.0842	13.10	0.0204	
		25	12	100	0	19.12	0.0816	12.97	0.0198	
QPSK CP-OFDM		1	1	1	0	22.06	0.1606	15.91	0.039	
		1	50	1	99	22.16	0.1643	16.01	0.0399	
		26	13	100	0	21.67	0.1469	15.52	0.0357	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.71	0.235	17.56	0.057	
		1	50	1	99	23.50	0.2239	17.35	0.0543	
		25	12	100	0	23.58	0.228	17.43	0.0553	
	QPSK DFT-s-OFDM	1	1	1	0	23.60	0.2291	17.45	0.0556	
		1	50	1	99	23.53	0.2255	17.38	0.0547	
		25	12	100	0	23.59	0.2286	17.44	0.0555	
	16QAM DFT-s-OFDM	1	1	1	0	22.51	0.178	16.36	0.0432	
		1	50	1	99	22.49	0.1772	16.34	0.043	
		25	12	100	0	22.41	0.174	16.26	0.0422	
	64QAM DFT-s-OFDM	1	1	1	0	21.31	0.1353	15.16	0.0328	
		1	50	1	99	21.18	0.1313	15.03	0.0319	
		25	12	100	0	20.93	0.1238	14.78	0.03	
	256QAM DFT-s-OFDM	1	1	1	0	19.30	0.0852	13.15	0.0207	
		1	50	1	99	18.93	0.0781	12.78	0.019	
		25	12	100	0	18.98	0.079	12.83	0.0192	
	Limit	ERP < 3W					Result		PASS	

EN-DC n71 (ANT1)+2A (ANT3)Combination 5MHz+20MHz(LTE)(GT - LC = -4dB)									
Channel	Mode	NR		LTE		Conducted		ERP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watt)	ERP(dBm)	ERP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.79	0.2393	17.64	0.0581
		1	23	1	99	23.71	0.2349	17.56	0.057
		12	6	100	0	23.52	0.2249	17.37	0.0546
	QPSK DFT-s-OFDM	1	1	1	0	23.73	0.2361	17.58	0.0573
		1	23	1	99	23.26	0.212	17.11	0.0514
		12	6	100	0	23.15	0.2067	17.00	0.0501
	16QAM DFT-s-OFDM	1	1	1	0	22.35	0.1717	16.20	0.0417
		1	23	1	99	22.73	0.1877	16.58	0.0455
		12	6	100	0	22.74	0.1881	16.59	0.0456
	64QAM DFT-s-OFDM	1	1	1	0	21.21	0.1323	15.06	0.0321
		1	23	1	99	21.31	0.1353	15.16	0.0328
		12	6	100	0	21.23	0.1329	15.08	0.0322
256QAM DFT-s-OFDM	1	1	1	0	19.49	0.0889	13.34	0.0216	
	1	23	1	99	19.59	0.091	13.44	0.0221	
	12	6	100	0	19.18	0.0829	13.03	0.0201	
Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.53	0.2255	17.38	0.0547
		1	23	1	99	23.52	0.2249	17.37	0.0546
		12	6	100	0	23.56	0.227	17.41	0.0551
	QPSK DFT-s-OFDM	1	1	1	0	23.37	0.2174	17.22	0.0527
		1	23	1	99	23.48	0.2229	17.33	0.0541
		12	6	100	0	23.60	0.2291	17.45	0.0556
	16QAM DFT-s-OFDM	1	1	1	0	22.44	0.1756	16.29	0.0426
		1	23	1	99	22.36	0.172	16.21	0.0417
		12	6	100	0	22.28	0.1689	16.13	0.041
	64QAM DFT-s-OFDM	1	1	1	0	21.22	0.1325	15.07	0.0322
		1	23	1	99	21.11	0.1292	14.96	0.0314
		12	6	100	0	20.72	0.118	14.57	0.0286
256QAM DFT-s-OFDM	1	1	1	0	19.30	0.0852	13.15	0.0207	
	1	23	1	99	19.27	0.0846	13.12	0.0205	
	12	6	100	0	19.08	0.0808	12.93	0.0196	
QPSK CP-OFDM	1	1	1	0	22.01	0.1588	15.86	0.0385	
	1	23	1	99	21.91	0.1552	15.76	0.0377	
	13	6	100	0	21.74	0.1493	15.59	0.0362	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.68	0.2334	17.53	0.0566
		1	23	1	99	23.55	0.2265	17.40	0.055
		12	6	100	0	23.57	0.2276	17.42	0.0552
	QPSK DFT-s-OFDM	1	1	1	0	23.63	0.2307	17.48	0.056
		1	23	1	99	23.56	0.227	17.41	0.0551
		12	6	100	0	23.64	0.2312	17.49	0.0561
	16QAM DFT-s-OFDM	1	1	1	0	22.67	0.1851	16.52	0.0449
		1	23	1	99	22.30	0.1697	16.15	0.0412
		12	6	100	0	22.50	0.1776	16.35	0.0431
	64QAM DFT-s-OFDM	1	1	1	0	21.59	0.1443	15.44	0.035
		1	23	1	99	21.03	0.1266	14.88	0.0307
		12	6	100	0	21.02	0.1263	14.87	0.0307
256QAM DFT-s-OFDM	1	1	1	0	19.04	0.0801	12.89	0.0194	
	1	23	1	99	18.75	0.075	12.60	0.0182	
	12	6	100	0	19.02	0.0797	12.87	0.0193	
Limit	ERP < 3W					Result		PASS	

EN-DC n77 (ANT7)+7A (ANT0&3)Combination 100MHz+20MHz(LTE)(GT - LC = -2dB)										
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	0.2381	21.77	0.1502	
		1	271	1	99	23.65	0.2317	21.65	0.1462	
		135	67	100	0	23.83	0.2415	21.83	0.1524	
	QPSK DFT-s-OFDM	1	1	1	0	23.78	0.2387	21.78	0.1506	
		1	271	1	99	23.69	0.2339	21.69	0.1476	
		135	67	100	0	23.98	0.2499	21.98	0.1577	
	16QAM DFT-s-OFDM	1	1	1	0	23.52	0.2247	21.52	0.1418	
		1	271	1	49	23.54	0.2257	21.54	0.1424	
		135	67	50	0	23.70	0.2347	21.70	0.1481	
	64QAM DFT-s-OFDM	1	1	1	0	22.25	0.1679	20.25	0.1059	
		1	271	1	49	21.97	0.1575	19.97	0.0994	
		135	67	50	0	22.14	0.1637	20.14	0.1033	
	256QAM DFT-s-OFDM	1	1	1	0	20.10	0.1024	18.10	0.0646	
		1	271	1	49	20.20	0.1048	18.20	0.0661	
		135	67	50	0	19.92	0.0981	17.92	0.0619	
	Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.35	0.272	22.35	0.1716
			1	271	1	99	24.51	0.2822	22.51	0.1781
			135	67	100	0	24.80	0.3023	22.80	0.1908
QPSK DFT-s-OFDM		1	1	1	0	24.46	0.2789	22.46	0.176	
		1	271	1	99	24.51	0.2828	22.51	0.1784	
		135	67	100	0	24.62	0.29	22.62	0.183	
16QAM DFT-s-OFDM		1	1	1	0	24.21	0.2638	22.21	0.1665	
		1	271	1	49	24.10	0.2573	22.10	0.1623	
		135	67	50	0	24.16	0.2608	22.16	0.1646	
64QAM DFT-s-OFDM		1	1	1	0	22.97	0.198	20.97	0.125	
		1	271	1	49	22.75	0.1883	20.75	0.1188	
		135	67	50	0	22.59	0.1815	20.59	0.1145	
256QAM DFT-s-OFDM		1	1	1	0	20.80	0.1202	18.80	0.0758	
		1	271	1	49	20.78	0.1197	18.78	0.0755	
		135	67	50	0	20.68	0.117	18.68	0.0738	
QPSK CP-OFDM		1	1	1	0	24.07	0.2555	22.07	0.1612	
		1	271	1	49	23.64	0.2309	21.64	0.1457	
		137	68	50	0	23.57	0.2273	21.57	0.1434	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.56	0.2861	22.56	0.1805	
		1	271	1	99	24.29	0.2683	22.29	0.1693	
		135	67	100	0	24.55	0.2854	22.55	0.1801	
	QPSK DFT-s-OFDM	1	1	1	0	24.47	0.2802	22.47	0.1768	
		1	271	1	99	24.45	0.2783	22.45	0.1756	
		135	67	100	0	24.60	0.2887	22.60	0.1822	
	16QAM DFT-s-OFDM	1	1	1	0	23.57	0.2273	21.57	0.1434	
		1	271	1	49	23.26	0.2117	21.26	0.1336	
		135	67	50	0	23.63	0.2304	21.63	0.1454	
	64QAM DFT-s-OFDM	1	1	1	0	22.16	0.1645	20.16	0.1038	
		1	271	1	49	22.05	0.1604	20.05	0.1012	
		135	67	50	0	22.01	0.1589	20.01	0.1003	
	256QAM DFT-s-OFDM	1	1	1	0	24.47	0.2802	22.47	0.1768	
		1	271	1	49	24.45	0.2783	22.45	0.1756	
		135	67	50	0	24.60	0.2887	22.60	0.1822	
	Limit	EIRP < 2W					Result		PASS	

EN-DC n77 (ANT7)+7A (ANT0&3)Combination 90MHz+20MHz(LTE)(GT - LC = -2dB)									
Channel	Mode	NR		LTE					
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watt)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.95	0.2481	21.95	0.1565
		1	243	1	99	23.67	0.2327	21.67	0.1468
		120	60	100	0	23.77	0.238	21.77	0.1502
	QPSK DFT-s-OFDM	1	1	1	0	23.92	0.2464	21.92	0.1555
		1	243	1	99	23.98	0.2498	21.98	0.1576
		120	60	100	0	23.95	0.2481	21.95	0.1565
	16QAM DFT-s-OFDM	1	1	1	0	23.31	0.2141	21.31	0.1351
		1	243	1	49	23.58	0.2278	21.58	0.1437
		120	60	50	0	23.68	0.2331	21.68	0.1471
	64QAM DFT-s-OFDM	1	1	1	0	22.12	0.163	20.12	0.1028
		1	243	1	49	21.99	0.1582	19.99	0.0998
		120	60	50	0	21.92	0.1557	19.92	0.0982
256QAM DFT-s-OFDM	1	1	1	0	20.03	0.1008	18.03	0.0636	
	1	243	1	49	20.07	0.1017	18.07	0.0642	
	120	60	50	0	20.15	0.1036	18.15	0.0654	
Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.40	0.2757	22.40	0.174
		1	243	1	99	24.42	0.277	22.42	0.1748
		120	60	100	0	24.62	0.29	22.62	0.183
	QPSK DFT-s-OFDM	1	1	1	0	24.60	0.2887	22.60	0.1821
		1	243	1	99	24.64	0.2913	22.64	0.1838
		120	60	100	0	24.79	0.3015	22.79	0.1903
	16QAM DFT-s-OFDM	1	1	1	0	24.36	0.2731	22.36	0.1723
		1	243	1	49	24.10	0.2573	22.10	0.1623
		120	60	50	0	24.00	0.2514	22.00	0.1586
	64QAM DFT-s-OFDM	1	1	1	0	23.04	0.2012	21.04	0.127
		1	243	1	49	22.70	0.1862	20.70	0.1175
		120	60	50	0	22.69	0.1857	20.69	0.1172
256QAM DFT-s-OFDM	1	1	1	0	20.49	0.112	18.49	0.0707	
	1	243	1	49	20.77	0.1194	18.77	0.0753	
	120	60	50	0	20.76	0.1191	18.76	0.0752	
QPSK CP-OFDM	1	1	1	0	24.06	0.2549	22.06	0.1608	
	1	243	1	49	23.92	0.2468	21.92	0.1557	
	123	61	50	0	23.65	0.2315	21.65	0.1461	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.73	0.2974	22.73	0.1876
		1	243	1	99	24.24	0.2652	22.24	0.1673
		120	60	100	0	24.64	0.2913	22.64	0.1838
	QPSK DFT-s-OFDM	1	1	1	0	24.72	0.2967	22.72	0.1872
		1	243	1	99	24.20	0.2627	22.20	0.1658
		120	60	100	0	24.73	0.2974	22.73	0.1876
	16QAM DFT-s-OFDM	1	1	1	0	23.37	0.2171	21.37	0.137
		1	243	1	49	23.46	0.2216	21.46	0.1398
		120	60	50	0	23.64	0.231	21.64	0.1457
	64QAM DFT-s-OFDM	1	1	1	0	22.15	0.1641	20.15	0.1035
		1	243	1	49	22.13	0.1634	20.13	0.1031
		120	60	50	0	22.07	0.1611	20.07	0.1017
256QAM DFT-s-OFDM	1	1	1	0	20.04	0.101	18.04	0.0638	
	1	243	1	49	20.15	0.1036	18.15	0.0654	
	120	60	50	0	19.95	0.0988	17.95	0.0623	
Limit		EIRP < 2W				Result		PASS	

EN-DC n77 (ANT7)+7A (ANT0&3)Combination 80MHz+20MHz(LTE)(GT - LC = -2dB)									
Channel	Mode	NR		LTE		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watt)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.36	0.2732	22.36	0.1724
		1	215	1	99	23.66	0.2321	21.66	0.1464
		108	54	100	0	24.14	0.2591	22.14	0.1635
	QPSK DFT-s-OFDM	1	1	1	0	23.74	0.2364	21.74	0.1492
		1	215	1	99	23.51	0.2243	21.51	0.1415
		108	54	100	0	23.80	0.2397	21.80	0.1513
	16QAM DFT-s-OFDM	1	1	1	0	23.31	0.2141	21.31	0.1351
		1	215	1	49	23.27	0.2122	21.27	0.1339
		108	54	50	0	23.61	0.2294	21.61	0.1447
	64QAM DFT-s-OFDM	1	1	1	0	22.29	0.1695	20.29	0.1069
		1	215	1	49	22.03	0.1597	20.03	0.1007
		108	54	50	0	22.06	0.1608	20.06	0.1014
256QAM DFT-s-OFDM	1	1	1	0	20.05	0.1013	18.05	0.0639	
	1	215	1	49	20.17	0.1041	18.17	0.0657	
	108	54	50	0	20.08	0.102	18.08	0.0643	
Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.53	0.284	22.53	0.1792
		1	215	1	99	24.46	0.2795	22.46	0.1764
		108	54	100	0	24.47	0.2802	22.47	0.1768
	QPSK DFT-s-OFDM	1	1	1	0	24.63	0.2906	22.63	0.1834
		1	215	1	99	24.64	0.2914	22.64	0.1838
		108	54	100	0	24.51	0.2828	22.51	0.1784
	16QAM DFT-s-OFDM	1	1	1	0	24.23	0.2651	22.23	0.1672
		1	215	1	49	24.25	0.2663	22.25	0.168
		108	54	50	0	24.01	0.252	22.01	0.159
	64QAM DFT-s-OFDM	1	1	1	0	22.91	0.1953	20.91	0.1232
		1	215	1	49	22.71	0.1866	20.71	0.1177
		108	54	50	0	22.73	0.1874	20.73	0.1183
256QAM DFT-s-OFDM	1	1	1	0	20.78	0.1197	18.78	0.0755	
	1	215	1	49	21.04	0.127	19.04	0.0801	
	108	54	50	0	20.69	0.1172	18.69	0.074	
QPSK CP-OFDM	1	1	1	0	23.89	0.2451	21.89	0.1547	
	1	215	1	49	23.92	0.2468	21.92	0.1557	
	109	54	50	0	23.67	0.2325	21.67	0.1467	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.69	0.2947	22.69	0.1859
		1	215	1	99	24.52	0.2834	22.52	0.1788
		108	54	100	0	24.61	0.2894	22.61	0.1826
	QPSK DFT-s-OFDM	1	1	1	0	24.58	0.2873	22.58	0.1813
		1	215	1	99	24.50	0.2821	22.50	0.178
		108	54	100	0	24.36	0.2732	22.36	0.1724
	16QAM DFT-s-OFDM	1	1	1	0	23.54	0.2257	21.54	0.1424
		1	215	1	49	23.32	0.2146	21.32	0.1354
		108	54	50	0	23.57	0.2273	21.57	0.1434
	64QAM DFT-s-OFDM	1	1	1	0	22.29	0.1695	20.29	0.1069
		1	215	1	49	22.15	0.1641	20.15	0.1035
		108	54	50	0	22.08	0.1615	20.08	0.1019
256QAM DFT-s-OFDM	1	1	1	0	20.07	0.1017	18.07	0.0642	
	1	215	1	49	20.10	0.1024	18.10	0.0646	
	108	54	50	0	19.92	0.0981	17.92	0.0619	
Limit		EIRP < 2W				Result		PASS	

EN-DC n77 (ANT7)+7A (ANT0&3)Combination 50MHz+20MHz(LTE)(GT - LC = -2dB)									
Channel	Mode	NR		LTE					
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watt)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.05	0.2544	22.05	0.1605
		1	131	1	99	24.10	0.2568	22.10	0.162
		64	32	100	0	24.23	0.2651	22.23	0.1673
	QPSK DFT-s-OFDM	1	1	1	0	24.30	0.2695	22.30	0.17
		1	131	1	99	24.41	0.2763	22.41	0.1743
		64	32	100	0	24.19	0.2627	22.19	0.1658
	16QAM DFT-s-OFDM	1	1	1	0	23.51	0.2242	21.51	0.1414
		1	131	1	49	23.32	0.2146	21.32	0.1354
		64	32	50	0	23.69	0.2341	21.69	0.1477
	64QAM DFT-s-OFDM	1	1	1	0	22.10	0.1622	20.10	0.1024
		1	131	1	49	22.08	0.1615	20.08	0.1019
		64	32	50	0	22.02	0.1593	20.02	0.1005
256QAM DFT-s-OFDM	1	1	1	0	20.04	0.101	18.04	0.0638	
	1	131	1	49	20.27	0.1065	18.27	0.0672	
	64	32	50	0	20.11	0.1027	18.11	0.0648	
Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.74	0.2981	22.74	0.1881
		1	131	1	99	24.72	0.2967	22.72	0.1872
		64	32	100	0	24.77	0.3001	22.77	0.1894
	QPSK DFT-s-OFDM	1	1	1	0	24.76	0.2994	22.76	0.1889
		1	131	1	99	24.78	0.3008	22.78	0.1898
		64	32	100	0	24.73	0.2974	22.73	0.1876
	16QAM DFT-s-OFDM	1	1	1	0	24.16	0.2608	22.16	0.1646
		1	131	1	49	24.03	0.2532	22.03	0.1597
		64	32	50	0	24.13	0.259	22.13	0.1634
	64QAM DFT-s-OFDM	1	1	1	0	22.92	0.1958	20.92	0.1235
		1	131	1	49	22.91	0.1953	20.91	0.1233
		64	32	50	0	22.76	0.1887	20.76	0.1191
256QAM DFT-s-OFDM	1	1	1	0	20.88	0.1224	18.88	0.0772	
	1	131	1	49	20.74	0.1186	18.74	0.0748	
	64	32	50	0	20.72	0.118	18.72	0.0745	
QPSK CP-OFDM	1	1	1	0	23.84	0.2424	21.84	0.1529	
	1	131	1	49	23.97	0.2497	21.97	0.1575	
	67	33	50	0	23.61	0.2294	21.61	0.1447	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.76	0.2995	22.76	0.189
		1	131	1	99	24.73	0.2974	22.73	0.1876
		64	32	100	0	24.74	0.2981	22.74	0.1881
	QPSK DFT-s-OFDM	1	1	1	0	24.66	0.2926	22.66	0.1846
		1	131	1	99	24.77	0.3002	22.77	0.1894
		64	32	100	0	24.76	0.2994	22.76	0.1889
	16QAM DFT-s-OFDM	1	1	1	0	23.59	0.2283	21.59	0.1441
		1	131	1	49	23.35	0.2161	21.35	0.1363
		64	32	50	0	23.47	0.2221	21.47	0.1401
	64QAM DFT-s-OFDM	1	1	1	0	22.12	0.163	20.12	0.1028
		1	131	1	49	22.20	0.166	20.20	0.1047
		64	32	50	0	21.93	0.156	19.93	0.0985
256QAM DFT-s-OFDM	1	1	1	0	20.09	0.1022	18.09	0.0645	
	1	131	1	49	20.05	0.1013	18.05	0.0639	
	64	32	50	0	20.01	0.1003	18.01	0.0633	
Limit	EIRP < 2W					Result		PASS	

EN-DC n77 (ANT7)+7A (ANT0&3)Combination 40MHz+20MHz(LTE)(GT - LC = -2dB)										
Channel	Mode	NR		LTE		Conducted		EIRP		
		RB		RB						
		Size	Offset	Size	Offset	Power(dBm)	Power(Watt)	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	99	24.12	0.2579	22.12	0.1628	
		50	25	100	0	24.05	0.2538	22.05	0.1602	
	QPSK DFT-s-OFDM	1	1	1	0	24.28	0.2676	22.28	0.1689	
		1	104	1	99	24.09	0.2562	22.09	0.1617	
		50	25	100	0	23.99	0.2503	21.99	0.158	
	16QAM DFT-s-OFDM	1	1	1	0	23.57	0.2273	21.57	0.1434	
		1	104	1	49	23.40	0.2186	21.40	0.1379	
		50	25	50	0	23.59	0.2283	21.59	0.1441	
	64QAM DFT-s-OFDM	1	1	1	0	22.19	0.1656	20.19	0.1045	
		1	104	1	49	22.10	0.1622	20.10	0.1024	
		50	25	50	0	21.92	0.1557	19.92	0.0982	
	256QAM DFT-s-OFDM	1	1	1	0	20.19	0.1046	18.19	0.066	
		1	104	1	49	20.02	0.1003	18.02	0.0633	
		50	25	50	0	19.88	0.0972	17.88	0.0613	
	Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.71	0.296	22.71	0.1868
			1	104	1	99	24.41	0.2763	22.41	0.1744
			50	25	100	0	24.69	0.2947	22.69	0.1859
QPSK DFT-s-OFDM		1	1	1	0	24.66	0.2927	22.66	0.1847	
		1	104	1	99	24.65	0.292	22.65	0.1842	
		50	25	100	0	24.79	0.3016	22.79	0.1903	
16QAM DFT-s-OFDM		1	1	1	0	24.12	0.2584	22.12	0.1631	
		1	104	1	49	23.98	0.2503	21.98	0.1579	
		50	25	50	0	24.16	0.2608	22.16	0.1646	
64QAM DFT-s-OFDM		1	1	1	0	23.19	0.2083	21.19	0.1314	
		1	104	1	49	23.01	0.1999	21.01	0.1261	
		50	25	50	0	22.65	0.184	20.65	0.1161	
256QAM DFT-s-OFDM		1	1	1	0	20.40	0.1097	18.40	0.0692	
		1	104	1	49	20.97	0.125	18.97	0.0788	
		50	25	50	0	20.54	0.1133	18.54	0.0715	
QPSK CP-OFDM		1	1	1	0	23.85	0.2429	21.85	0.1533	
		1	104	1	49	23.98	0.2503	21.98	0.1579	
		53	26	50	0	23.70	0.2342	21.70	0.1477	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.28	0.2682	22.28	0.1692	
		1	104	1	99	24.64	0.2913	22.64	0.1838	
		50	25	100	0	24.72	0.2967	22.72	0.1872	
	QPSK DFT-s-OFDM	1	1	1	0	24.31	0.2701	22.31	0.1704	
		1	104	1	99	24.58	0.2873	22.58	0.1813	
		50	25	100	0	24.71	0.2961	22.71	0.1868	
	16QAM DFT-s-OFDM	1	1	1	0	23.29	0.2131	21.29	0.1345	
		1	104	1	49	23.48	0.2226	21.48	0.1405	
		50	25	50	0	23.65	0.2315	21.65	0.1461	
	64QAM DFT-s-OFDM	1	1	1	0	22.19	0.1656	20.19	0.1045	
		1	104	1	49	22.08	0.1615	20.08	0.1019	
		50	25	50	0	22.05	0.1604	20.05	0.1012	
	256QAM DFT-s-OFDM	1	1	1	0	20.03	0.1008	18.03	0.0636	
		1	104	1	49	20.21	0.105	18.21	0.0663	
		50	25	50	0	20.05	0.1013	18.05	0.0639	
	Limit	EIRP < 2W					Result		PASS	

EN-DC n77 (ANT7)+7A (ANT0&3)Combination 30MHz+20MHz(LTE)(GT - LC = -2dB)									
Channel	Mode	NR		LTE					
		RB		RB					
		Size	Offset	Size	Offset	Power(dBm)	Power(Watt)	EIRP(dBm)	EIRP(W)
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.31	0.2695	22.31	0.17
		1	76	1	99	24.39	0.275	22.39	0.1735
		36	18	100	0	24.31	0.2695	22.31	0.17
	QPSK DFT-s-OFDM	1	1	1	0	24.39	0.275	22.39	0.1735
		1	76	1	99	24.52	0.2834	22.52	0.1788
		36	18	100	0	24.28	0.2676	22.28	0.1689
	16QAM DFT-s-OFDM	1	1	1	0	23.54	0.2257	21.54	0.1424
		1	76	1	49	23.31	0.2141	21.31	0.1351
		36	18	50	0	23.61	0.2294	21.61	0.1447
	64QAM DFT-s-OFDM	1	1	1	0	22.29	0.1695	20.29	0.1069
		1	76	1	49	22.23	0.1671	20.23	0.1055
		36	18	50	0	22.03	0.1597	20.03	0.1007
	256QAM DFT-s-OFDM	1	1	1	0	20.04	0.101	18.04	0.0637
		1	76	1	49	20.24	0.1058	18.24	0.0667
		36	18	50	0	20.19	0.1046	18.19	0.066
Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.76	0.2994	22.76	0.1889
		1	76	1	99	24.74	0.298	22.74	0.1881
		36	18	100	0	24.72	0.2967	22.72	0.1872
	QPSK DFT-s-OFDM	1	1	1	0	24.78	0.3009	22.78	0.1898
		1	76	1	99	24.64	0.2913	22.64	0.1838
		36	18	100	0	24.77	0.3001	22.77	0.1894
	16QAM DFT-s-OFDM	1	1	1	0	24.26	0.2669	22.26	0.1684
		1	76	1	49	24.02	0.2526	22.02	0.1594
		36	18	50	0	23.98	0.2503	21.98	0.1579
	64QAM DFT-s-OFDM	1	1	1	0	22.96	0.1976	20.96	0.1247
		1	76	1	49	22.71	0.1866	20.71	0.1177
		36	18	50	0	22.63	0.1832	20.63	0.1156
	256QAM DFT-s-OFDM	1	1	1	0	20.80	0.1202	18.80	0.0758
		1	76	1	49	21.08	0.1282	19.08	0.0809
		36	18	50	0	20.68	0.117	18.68	0.0738
QPSK CP-OFDM	1	1	1	0	23.98	0.2503	21.98	0.1579	
	1	76	1	49	23.98	0.2503	21.98	0.1579	
	39	19	50	0	23.67	0.2326	21.67	0.1467	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.63	0.2907	22.63	0.1834
		1	76	1	99	24.76	0.2994	22.76	0.1889
		36	18	100	0	24.56	0.286	22.56	0.1805
	QPSK DFT-s-OFDM	1	1	1	0	24.60	0.2887	22.60	0.1821
		1	76	1	99	24.76	0.2994	22.76	0.1889
		36	18	100	0	24.65	0.292	22.65	0.1842
	16QAM DFT-s-OFDM	1	1	1	0	23.60	0.2288	21.60	0.1444
		1	76	1	49	23.34	0.2156	21.34	0.136
		36	18	50	0	23.52	0.2247	21.52	0.1418
	64QAM DFT-s-OFDM	1	1	1	0	22.30	0.1699	20.30	0.1072
		1	76	1	49	21.97	0.1575	19.97	0.0994
		36	18	50	0	22.08	0.1615	20.08	0.1019
	256QAM DFT-s-OFDM	1	1	1	0	20.06	0.1015	18.06	0.064
		1	76	1	49	20.25	0.106	18.25	0.0669
		36	18	50	0	20.05	0.1013	18.05	0.0639
Limit	EIRP < 2W					Result		PASS	

EN-DC n77 (ANT7)+7A (ANT0&3)Combination 20MHz+20MHz(LTE)(GT - LC = -2dB)										
Channel	Mode	NR		LTE						
		RB		RB						
		Size	Offset	Size	Offset	Power(dBm)	Power(Watt)	EIRP(dBm)	EIRP(W)	
Lowest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.95	0.2481	21.95	0.1565	
		1	49	1	99	24.09	0.2562	22.09	0.1617	
		25	12	100	0	24.12	0.258	22.12	0.1628	
	QPSK DFT-s-OFDM	1	1	1	0	24.04	0.2533	22.04	0.1598	
		1	49	1	99	24.00	0.251	22.00	0.1584	
		25	12	100	0	24.15	0.2603	22.15	0.1642	
	16QAM DFT-s-OFDM	1	1	1	0	23.45	0.2211	21.45	0.1395	
		1	49	1	49	23.26	0.2117	21.26	0.1336	
		25	12	50	0	23.61	0.2294	21.61	0.1447	
	64QAM DFT-s-OFDM	1	1	1	0	22.12	0.163	20.12	0.1028	
		1	49	1	49	21.97	0.1575	19.97	0.0994	
		25	12	50	0	22.02	0.1593	20.02	0.1005	
	256QAM DFT-s-OFDM	1	1	1	0	19.96	0.099	17.96	0.0624	
		1	49	1	49	20.10	0.1024	18.10	0.0646	
		25	12	50	0	20.09	0.1022	18.09	0.0645	
	Middle	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.51	0.2828	22.51	0.1784
			1	49	1	99	24.55	0.2854	22.55	0.18
			25	12	100	0	24.52	0.2834	22.52	0.1788
QPSK DFT-s-OFDM		1	1	1	0	24.77	0.3001	22.77	0.1894	
		1	49	1	99	24.47	0.2802	22.47	0.1768	
		25	12	100	0	24.58	0.2873	22.58	0.1813	
16QAM DFT-s-OFDM		1	1	1	0	24.15	0.2602	22.15	0.1642	
		1	49	1	49	23.91	0.2463	21.91	0.1554	
		25	12	50	0	24.16	0.2608	22.16	0.1646	
64QAM DFT-s-OFDM		1	1	1	0	23.16	0.2069	21.16	0.1305	
		1	49	1	49	22.81	0.1909	20.81	0.1205	
		25	12	50	0	22.65	0.184	20.65	0.1161	
256QAM DFT-s-OFDM		1	1	1	0	20.48	0.1117	18.48	0.0705	
		1	49	1	49	21.03	0.1267	19.03	0.0799	
		25	12	50	0	20.81	0.1205	18.81	0.076	
QPSK CP-OFDM		1	1	1	0	24.08	0.2561	22.08	0.1616	
		1	49	1	49	23.86	0.2435	21.86	0.1536	
		25	12	50	0	23.60	0.2288	21.60	0.1444	
Highest	PI/2 BPSK DFT-s-OFDM	1	1	1	0	24.48	0.2808	22.48	0.1772	
		1	49	1	99	24.52	0.2834	22.52	0.1788	
		25	12	100	0	24.43	0.2776	22.43	0.1752	
	QPSK DFT-s-OFDM	1	1	1	0	24.35	0.272	22.35	0.1716	
		1	49	1	99	24.62	0.29	22.62	0.183	
		25	12	100	0	24.38	0.2744	22.38	0.1732	
	16QAM DFT-s-OFDM	1	1	1	0	23.59	0.2283	21.59	0.1441	
		1	49	1	49	23.49	0.2231	21.49	0.1408	
		25	12	50	0	23.63	0.2304	21.63	0.1454	
	64QAM DFT-s-OFDM	1	1	1	0	22.17	0.1649	20.17	0.104	
		1	49	1	49	21.95	0.1568	19.95	0.0989	
		25	12	50	0	22.13	0.1634	20.13	0.1031	
	256QAM DFT-s-OFDM	1	1	1	0	19.97	0.0992	17.97	0.0626	
		1	49	1	49	20.11	0.1027	18.11	0.0648	
		25	12	50	0	20.09	0.1022	18.09	0.0645	
	Limit	EIRP < 2W					Result		PASS	



5G NR n7 SA

Peak-to-Average Ratio

Mode	FR1 n7 / 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	3.68	3.39	5.1	5.01	PASS
Middle CH	3.57	3.51	4.99	5.01	
Highest CH	3.83	3.42	5.8	4.99	



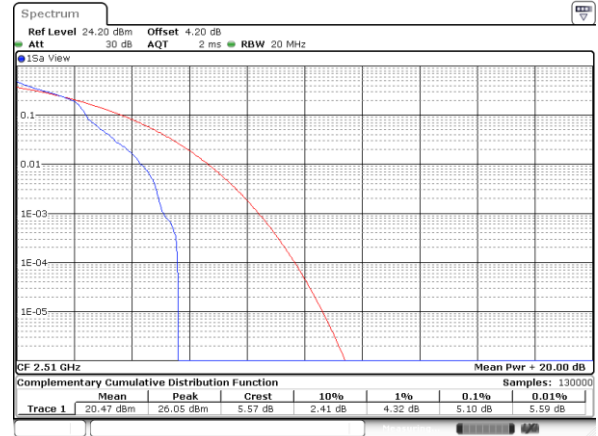
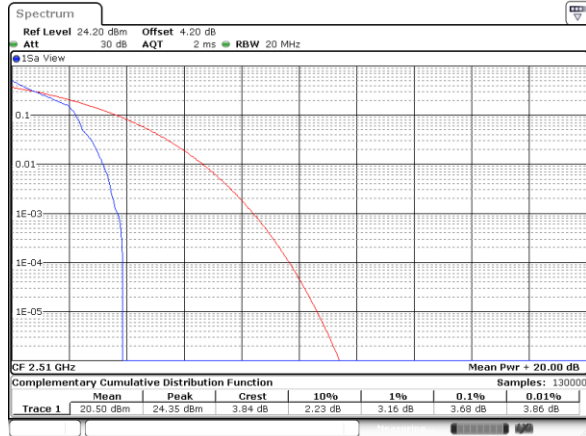
FR1 n7 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

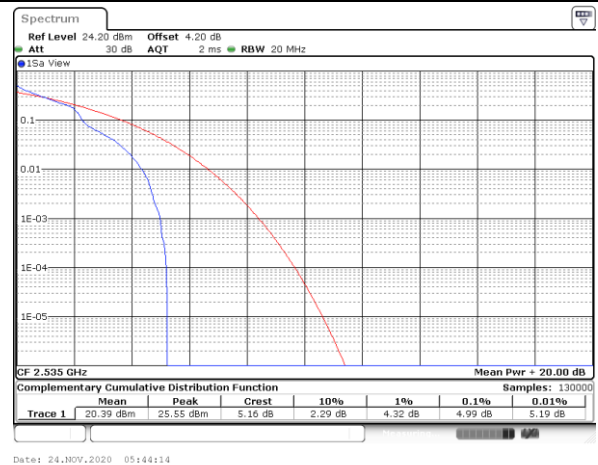
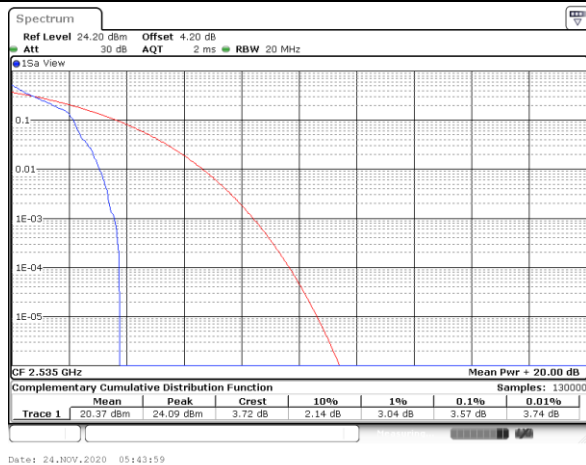
Lowest Channel / 1RB

Lowest Channel / 1RB



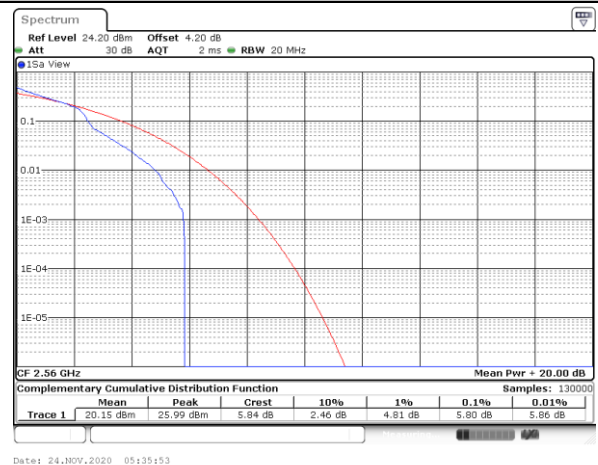
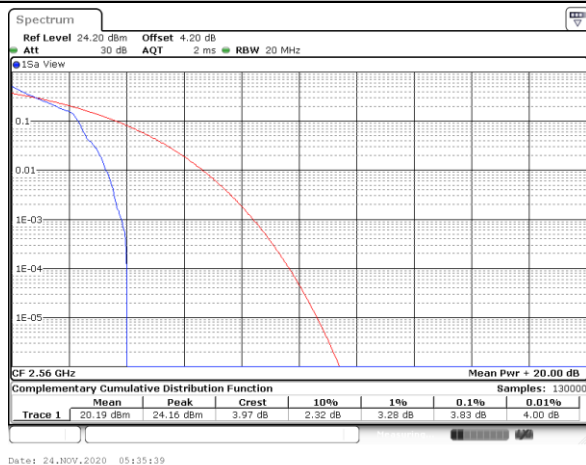
Middle Channel / 1 RB

Middle Channel / 1 RB



Highest Channel / 1 RB

Highest Channel / 1 RB





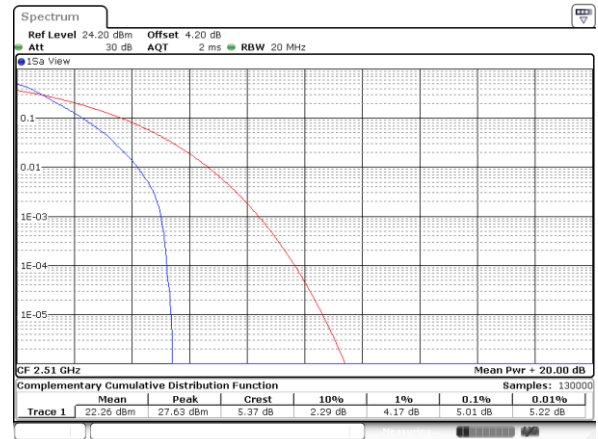
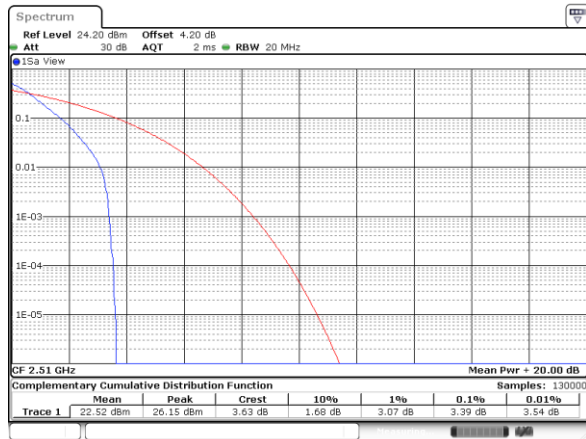
FR1 n7 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

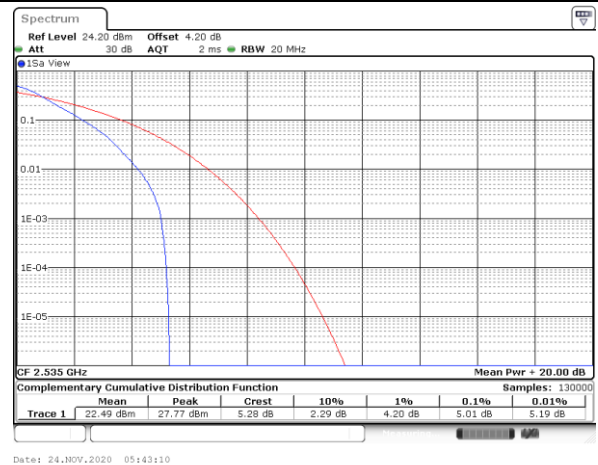
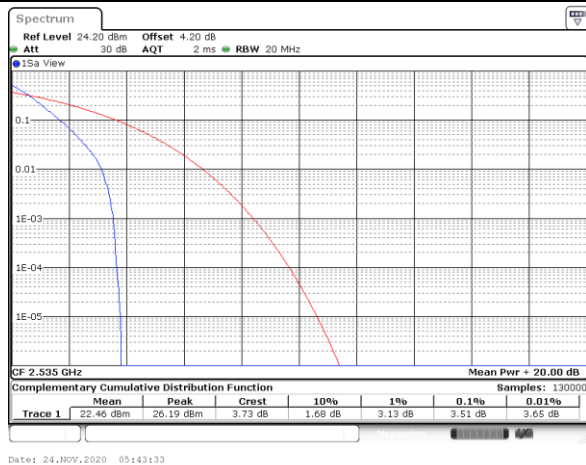
Lowest Channel / Full RB

Lowest Channel / Full RB



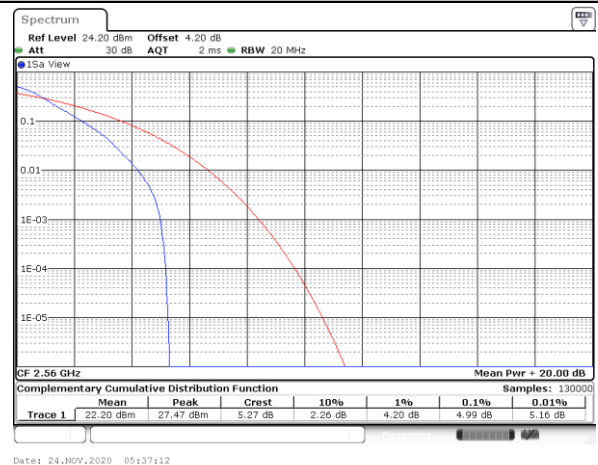
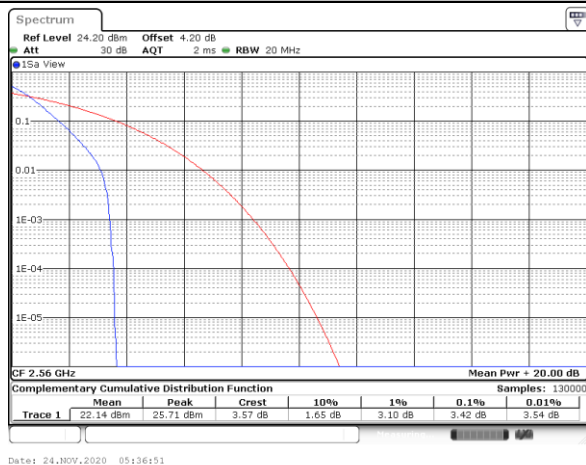
Middle Channel / Full RB

Middle Channel / Full RB



Highest Channel / Full RB

Highest Channel / Full RB



26dB Bandwidth

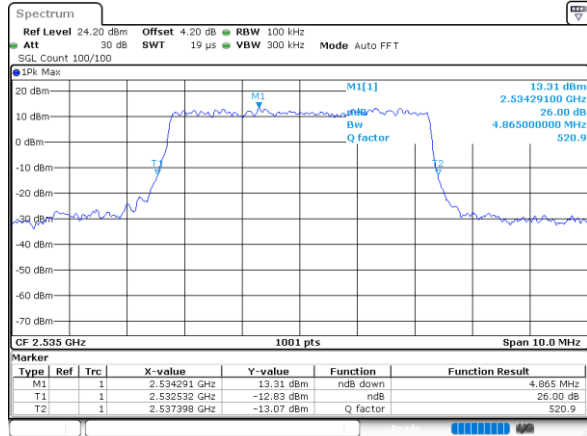
Mode	FR1 n7 : 26dB BW(MHz) / CP-OFDM			
BW	5MHz	5MHz	5MHz	5MHz
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	4.86	4.82	4.95	4.89
BW	10MHz	10MHz	10MHz	10MHz
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	9.87	9.85	9.83	9.89
BW	15MHz	15MHz	15MHz	15MHz
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	14.92	15.01	15.1	14.86
BW	20MHz	20MHz	20MHz	20MHz
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	19.9	19.82	19.74	19.9



FR1 n7 / 5MHz / CP-OFDM

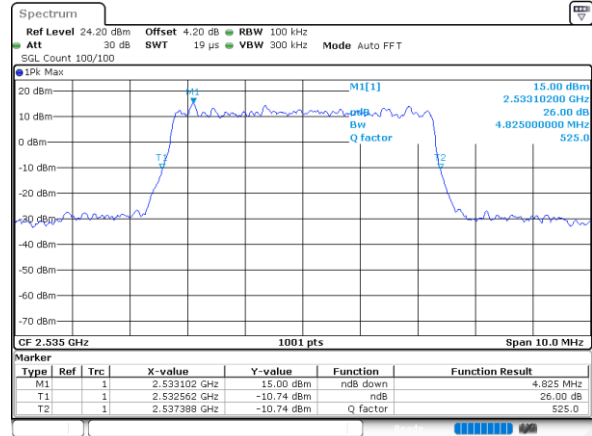
QPSK

Middle Channel



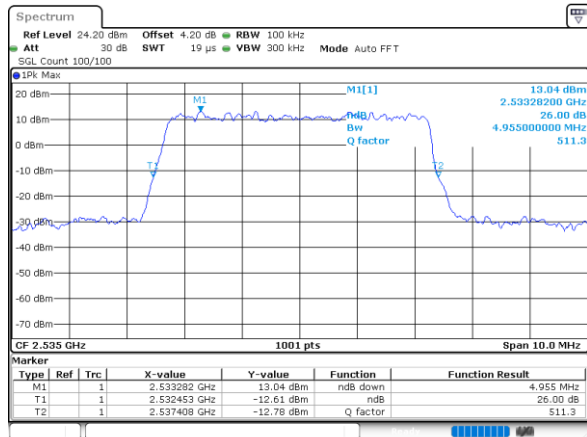
16QAM

Middle Channel



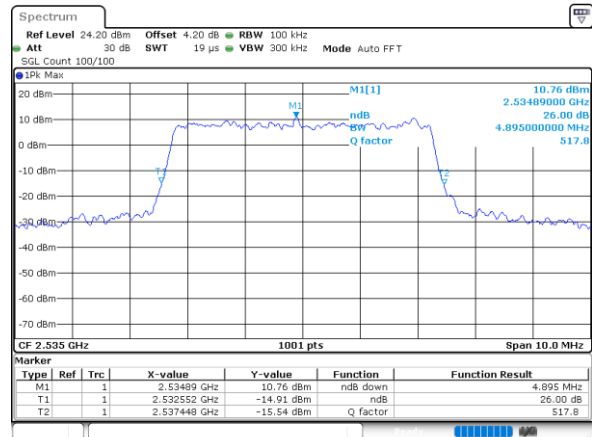
64QAM

Middle Channel



256QAM

Middle Channel





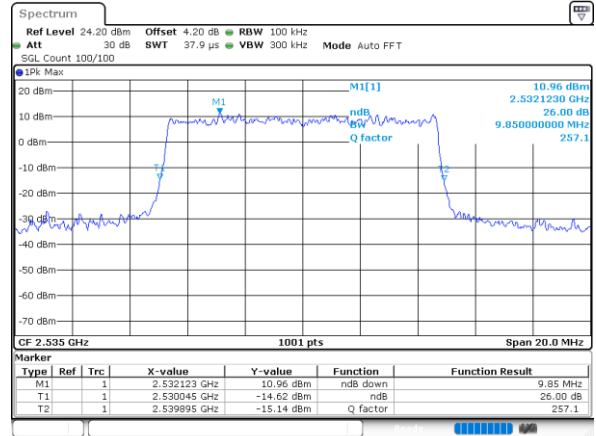
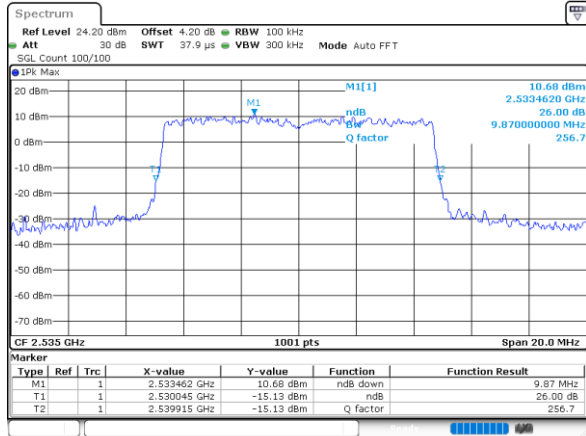
FR1 n7 / 10MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel

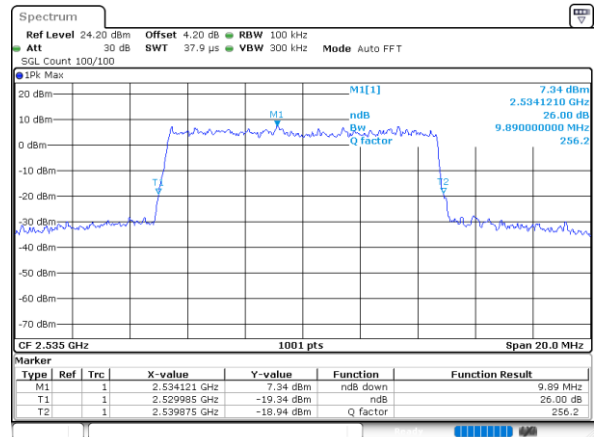
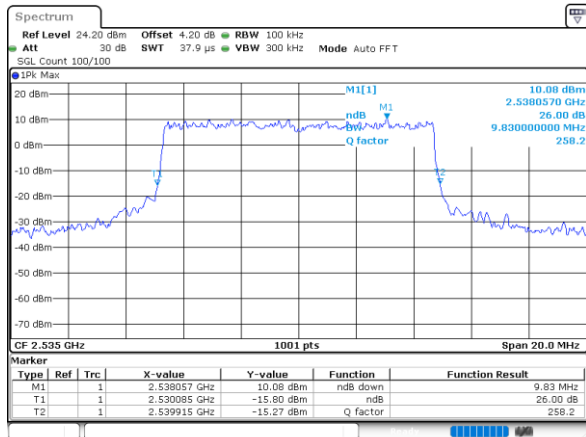


64QAM

256QAM

Middle Channel

Middle Channel

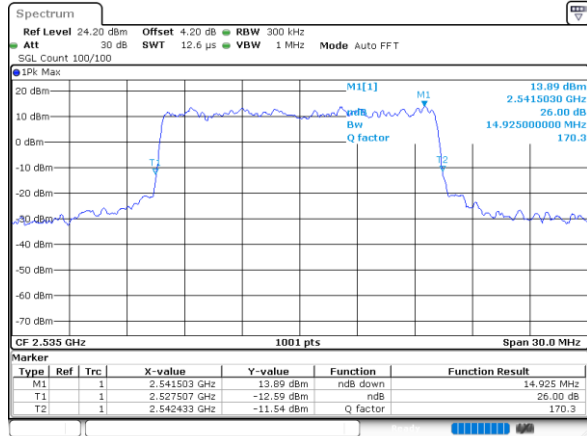




FR1 n7 / 15MHz / CP-OFDM

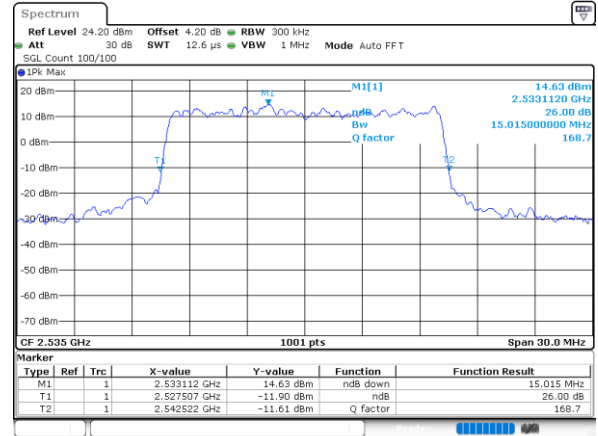
QPSK

Middle Channel



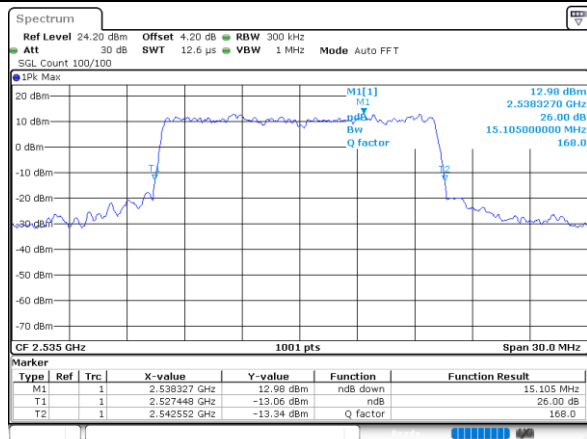
16QAM

Middle Channel



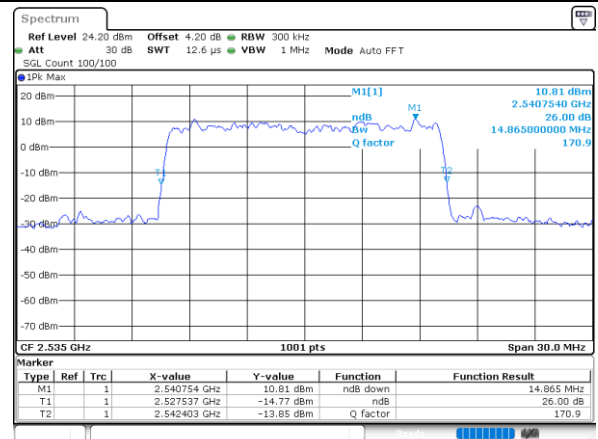
64QAM

Middle Channel



256QAM

Middle Channel

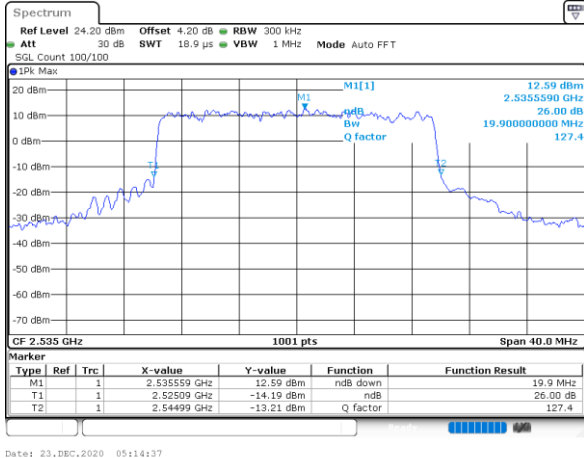




FR1 n7 / 20MHz / CP-OFDM

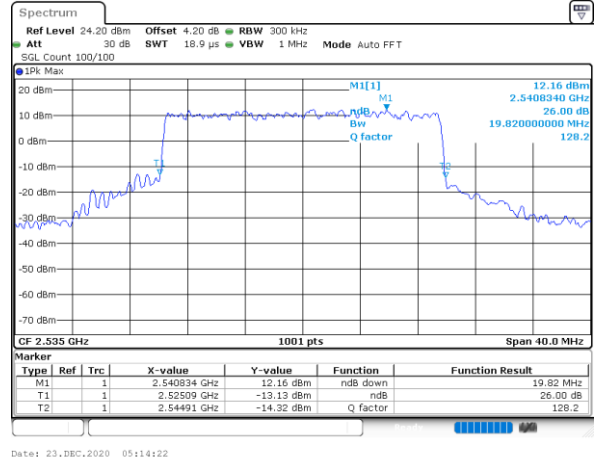
QPSK

Middle Channel



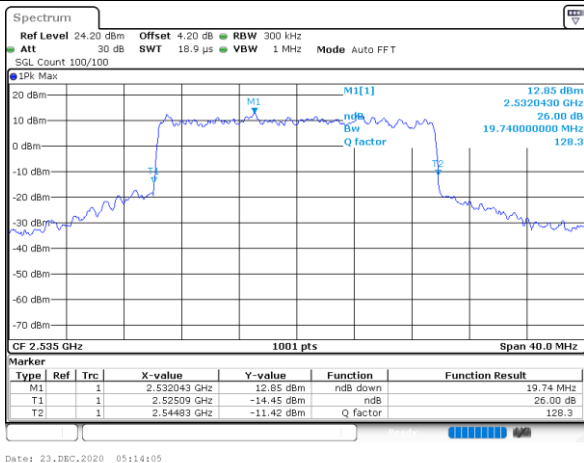
16QAM

Middle Channel



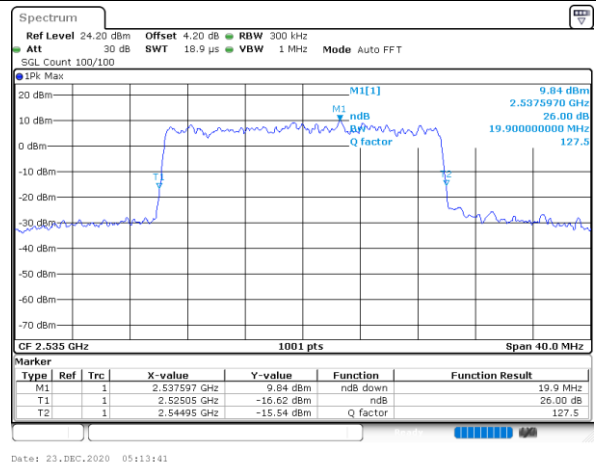
64QAM

Middle Channel



256QAM

Middle Channel



**Occupied Bandwidth**

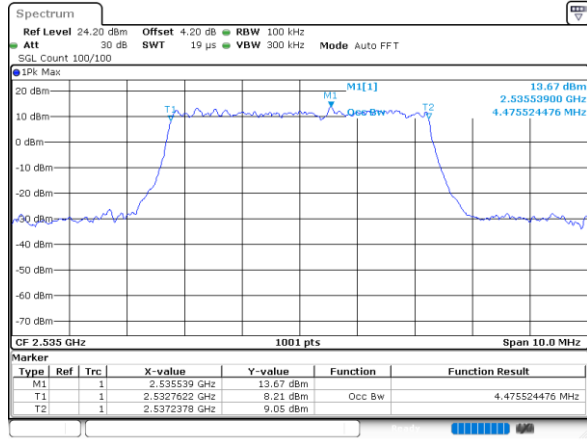
Mode	FR1 n7 : OBW(MHz) / CP-OFDM			
BW	5MHz	5MHz	5MHz	5MHz
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	4.47	4.48	4.51	4.47
BW	10MHz	10MHz	10MHz	10MHz
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	9.29	9.29	9.27	9.29
BW	15MHz	15MHz	15MHz	15MHz
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	14.17	14.11	14.11	14.14
BW	20MHz	20MHz	20MHz	20MHz
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	18.94	18.86	18.9	18.94



FR1 n7 / 5MHz / CP-OFDM

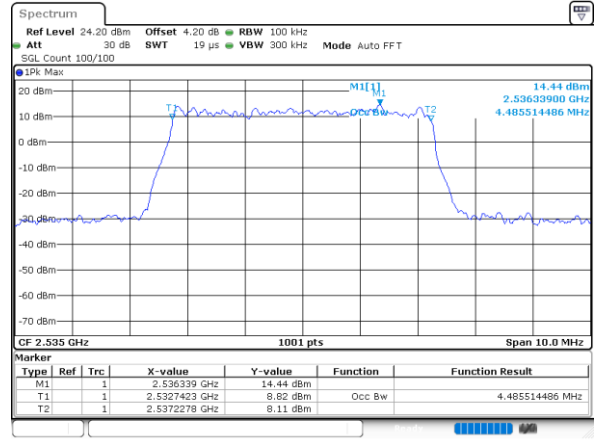
QPSK

Middle Channel



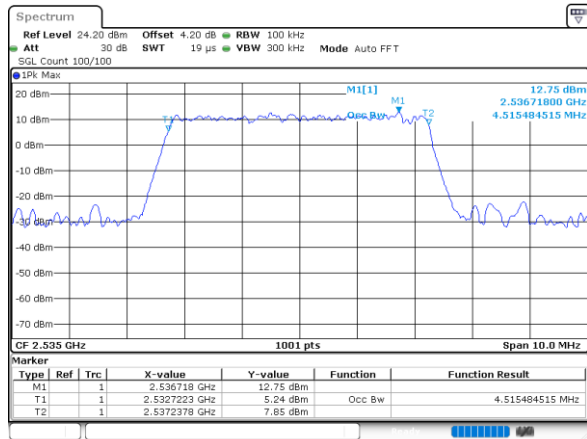
16QAM

Middle Channel



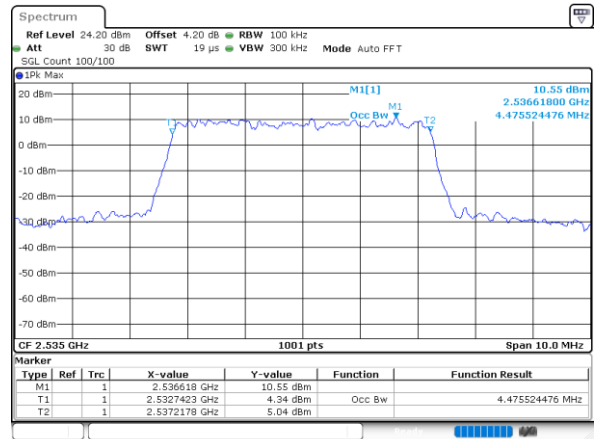
64QAM

Middle Channel



256QAM

Middle Channel

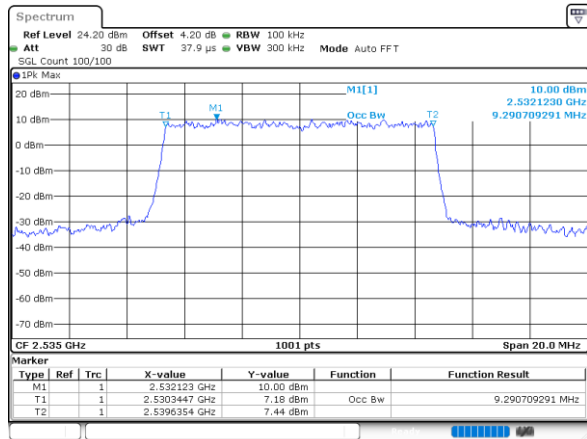




FR1 n7 / 10MHz / CP-OFDM

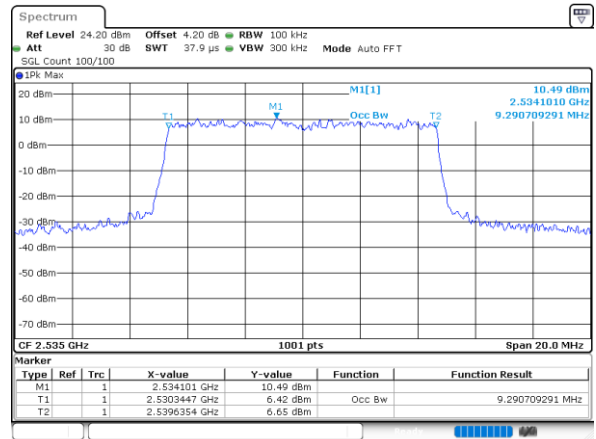
QPSK

Middle Channel



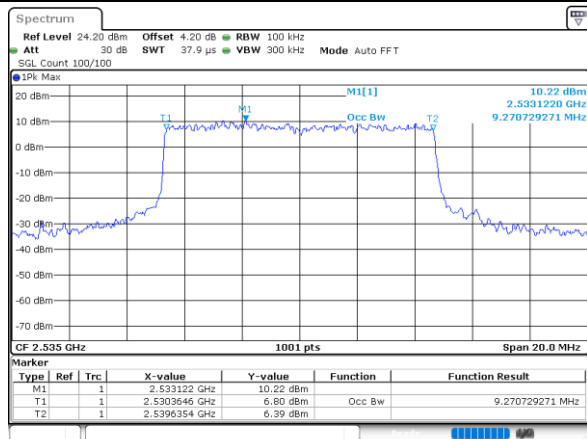
16QAM

Middle Channel



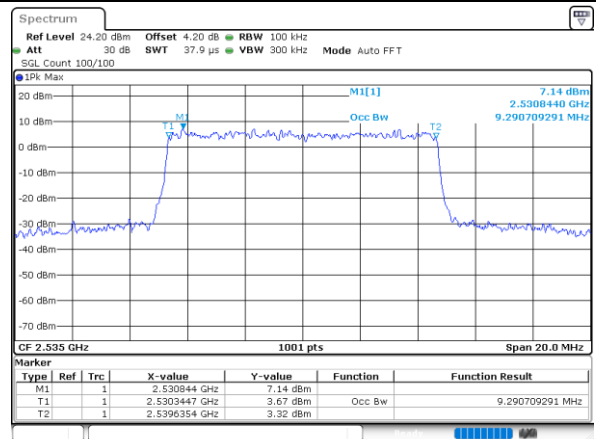
64QAM

Middle Channel



256QAM

Middle Channel

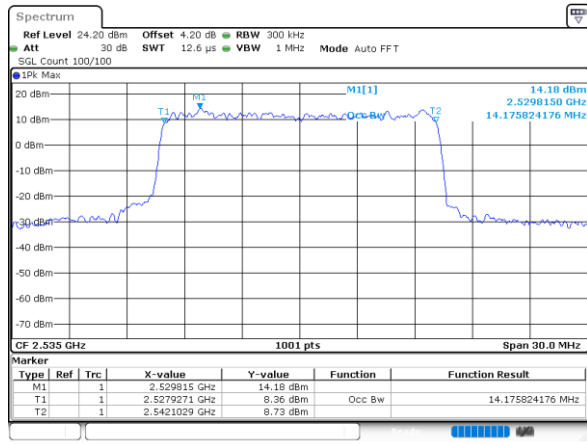




FR1 n7 / 15MHz / CP-OFDM

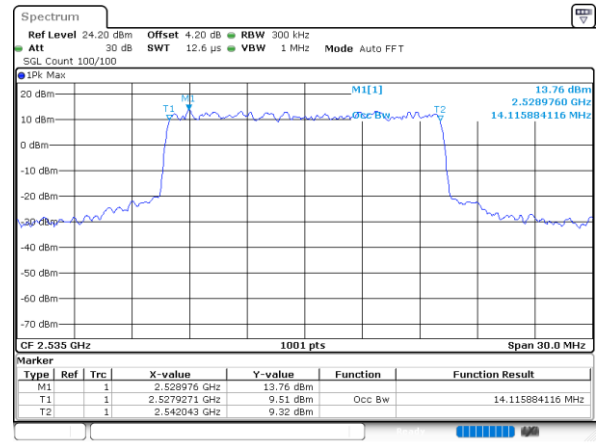
QPSK

Middle Channel



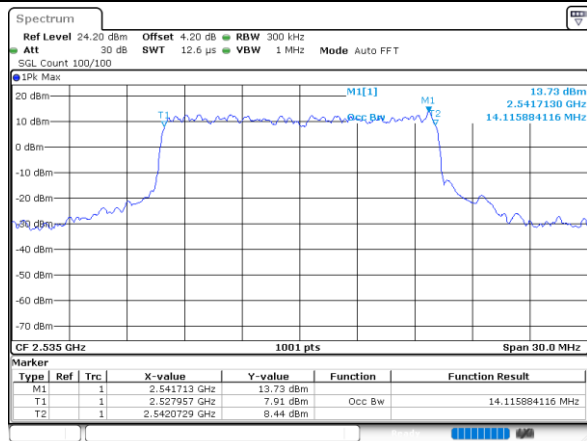
16QAM

Middle Channel



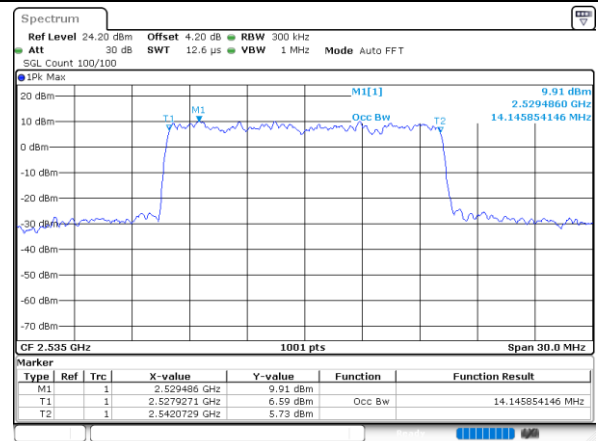
64QAM

Middle Channel



256QAM

Middle Channel

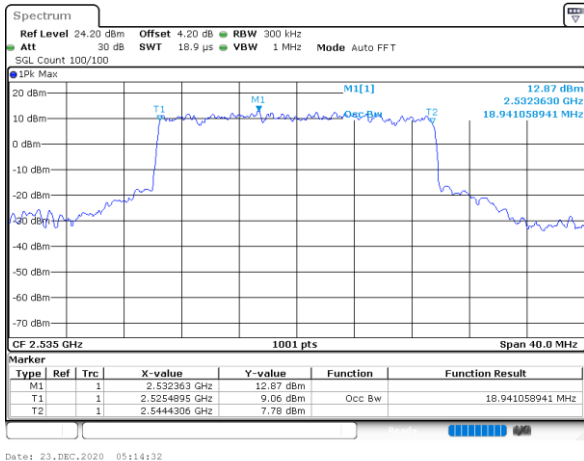




FR1 n7 / 20MHz / CP-OFDM

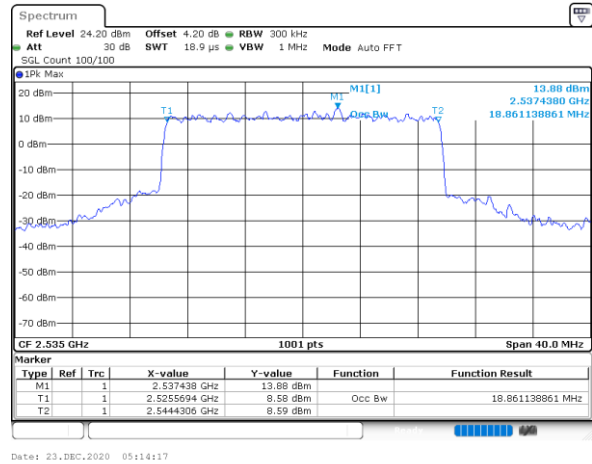
QPSK

Middle Channel



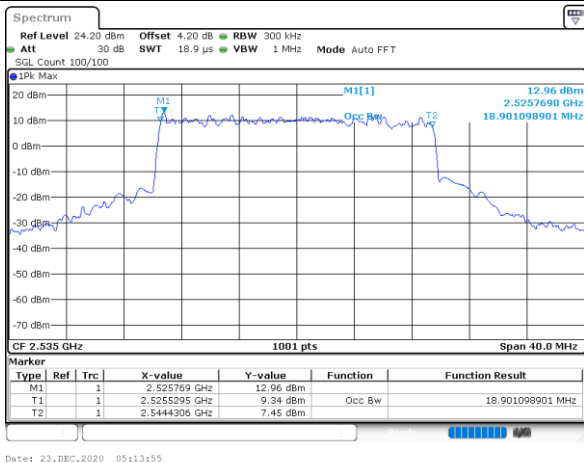
16QAM

Middle Channel



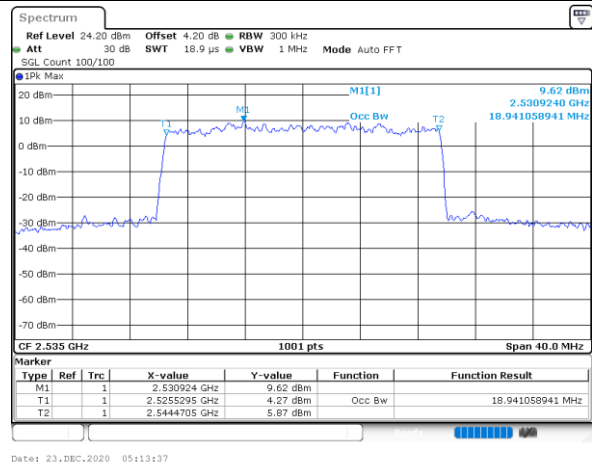
64QAM

Middle Channel



256QAM

Middle Channel

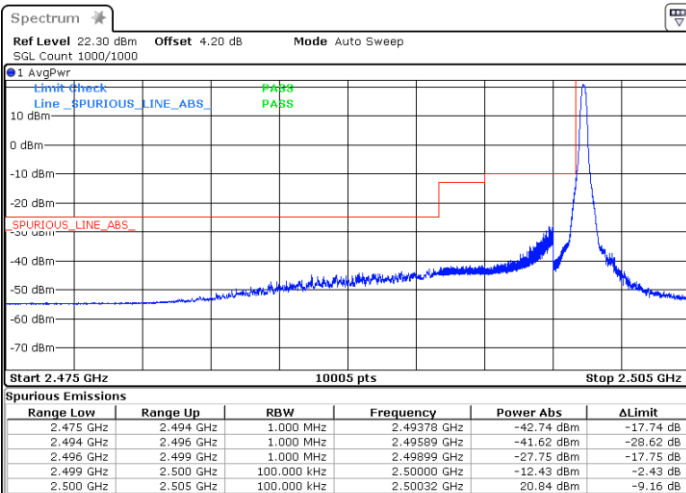




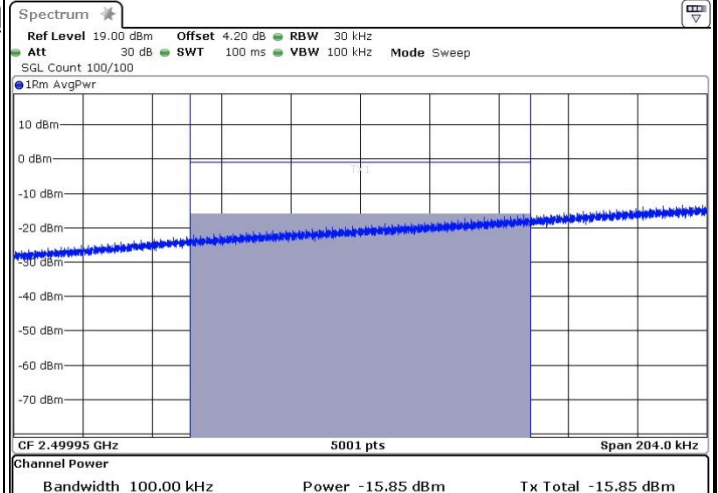
Conducted Band Edge

FR1 n7 / 5MHz / DFT-S OFDM BPSK

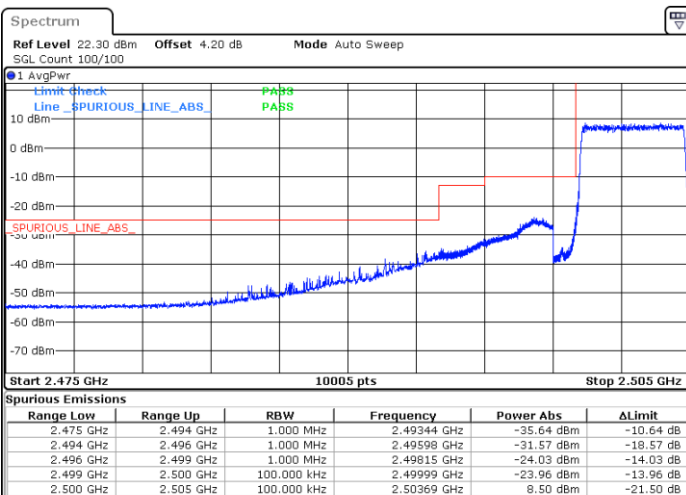
Lowest Band Edge / 1 RB



Channel Power < -13dBm Pass



Lowest Band Edge / Full RB



Channel Power < -13dBm Pass

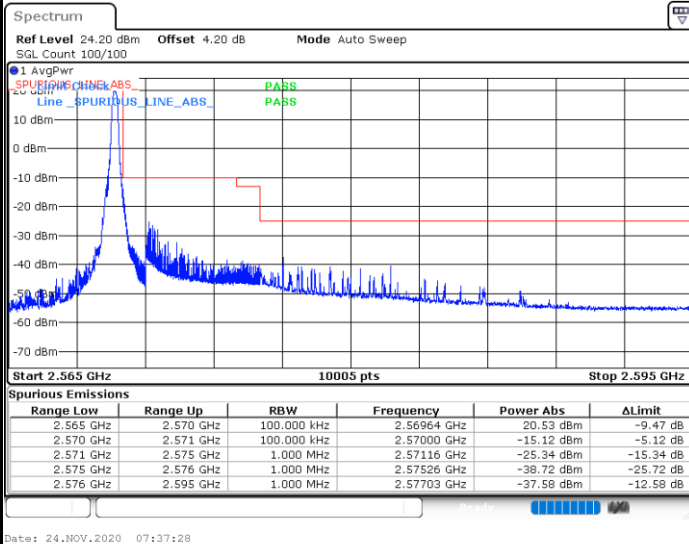
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FR1 n7 / 5MHz / DFT-S OFDM BPSK

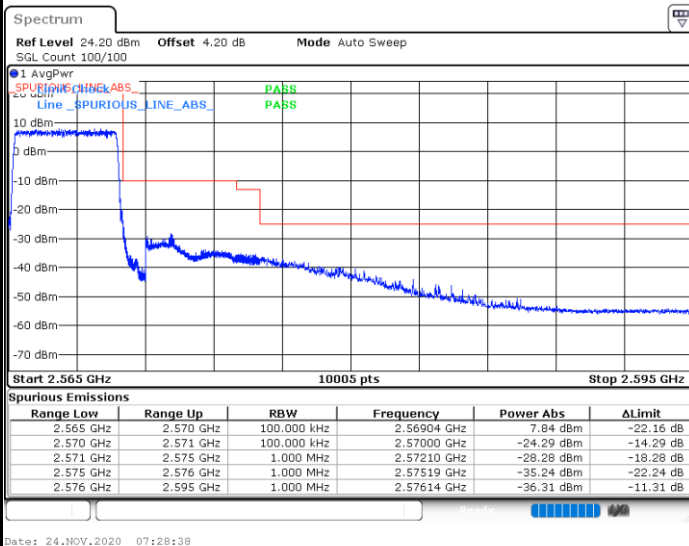
Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



Highest Band Edge / Full RB

Channel Power < -13dBm Pass

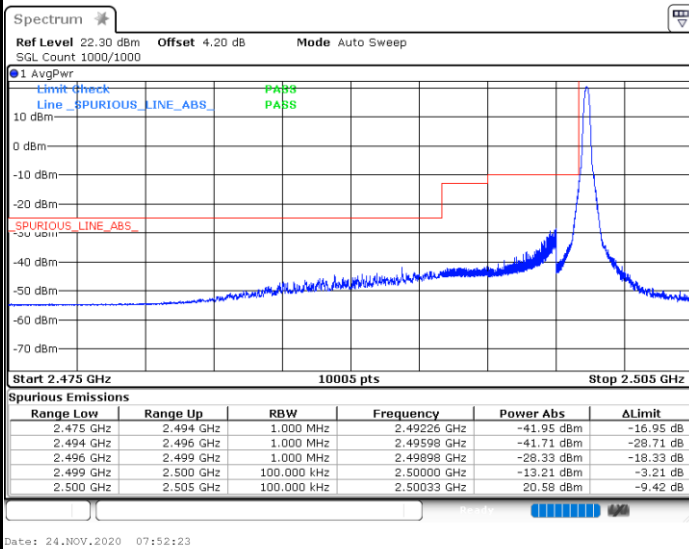




FR1 n7 / 5MHz / DFT-S OFDM QPSK

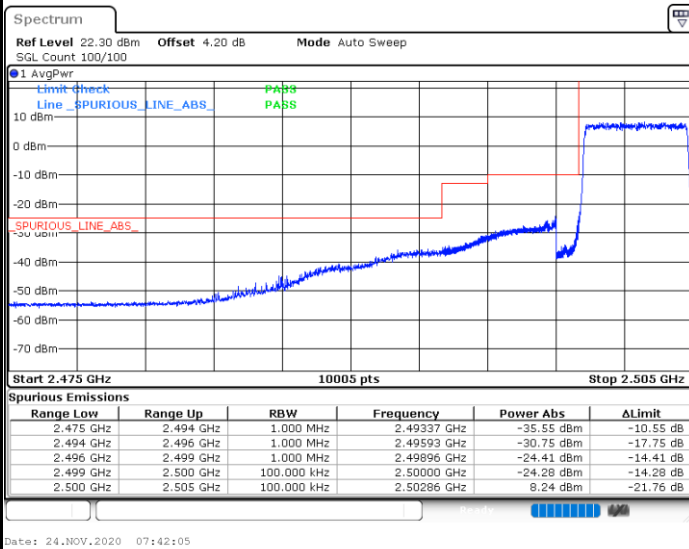
Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



Lowest Band Edge / Full RB

Channel Power < -13dBm Pass

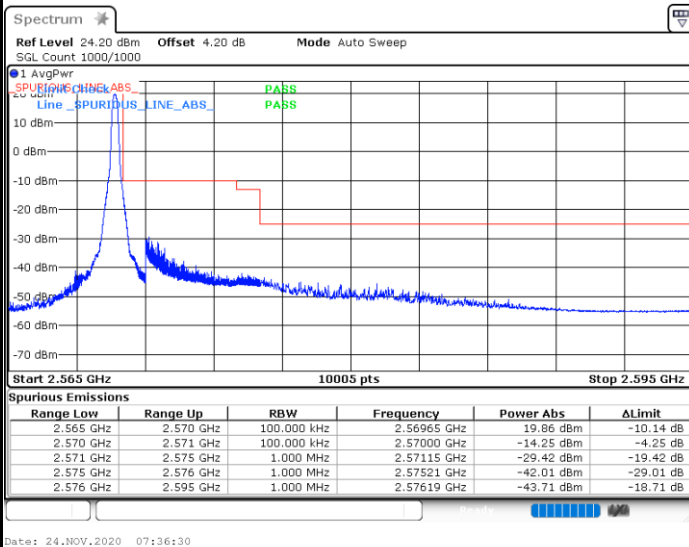




FR1 n7 / 5MHz / DFT-S OFDM QPSK

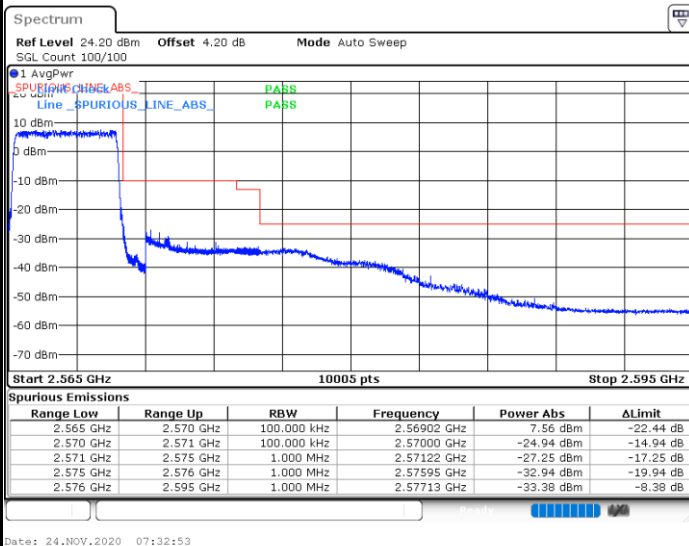
Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



Highest Band Edge / Full RB

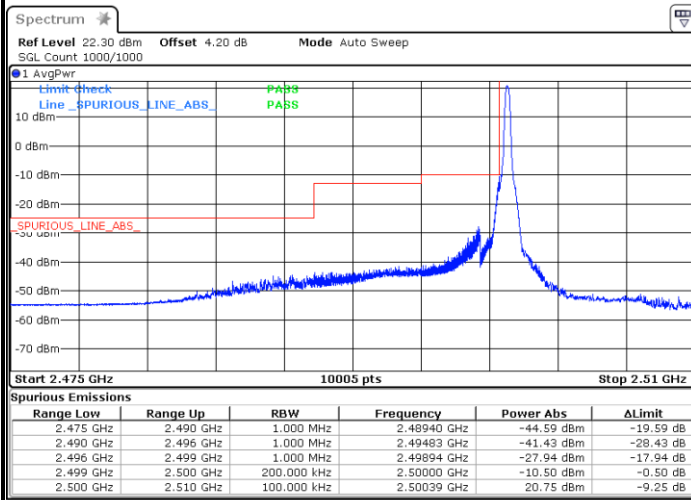
Channel Power < -13dBm Pass



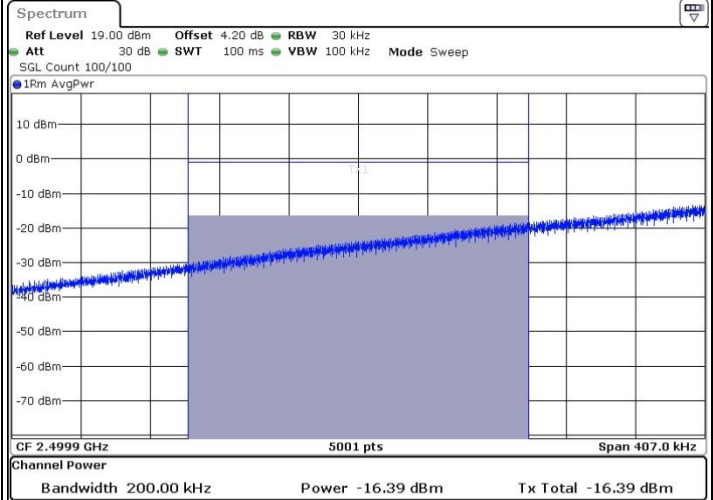


FR1 n7 / 10MHz / DFT-S OFDM BPSK

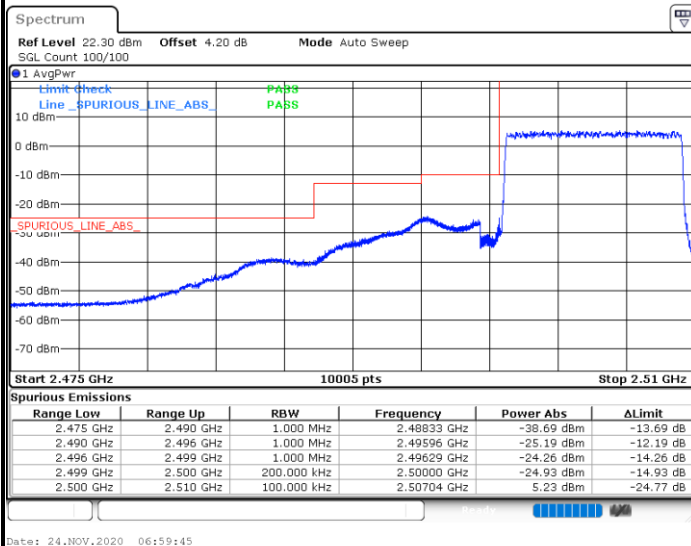
Lowest Band Edge / 1 RB



Channel Power < -13dBm Pass



Lowest Band Edge / Full RB



Channel Power < -13dBm Pass

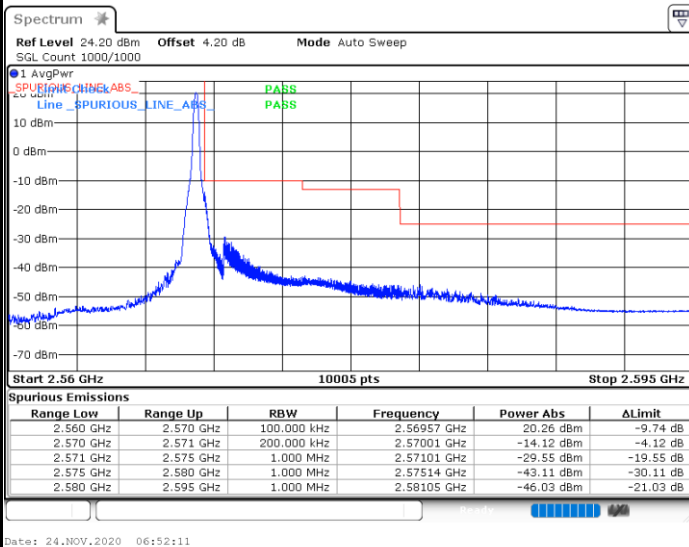
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FR1 n7 / 10MHz / DFT-S OFDM BPSK

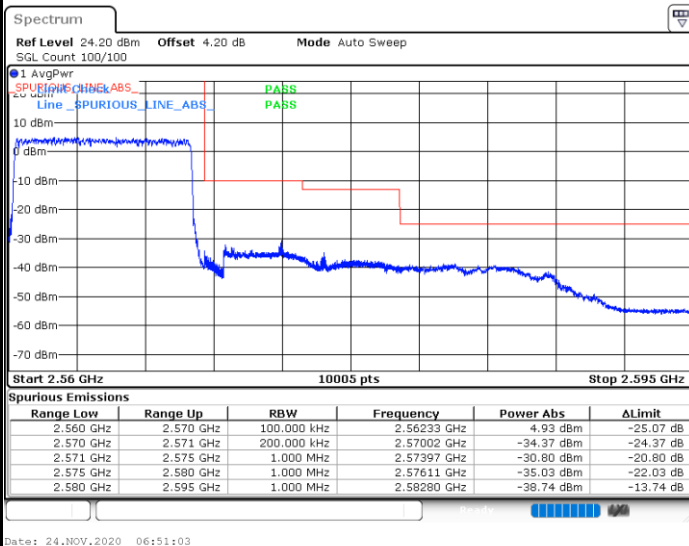
Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



Highest Band Edge / Full RB

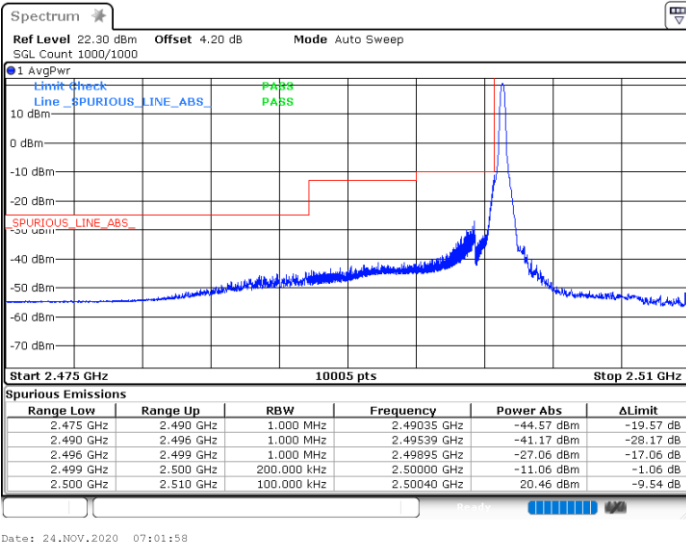
Channel Power < -13dBm Pass



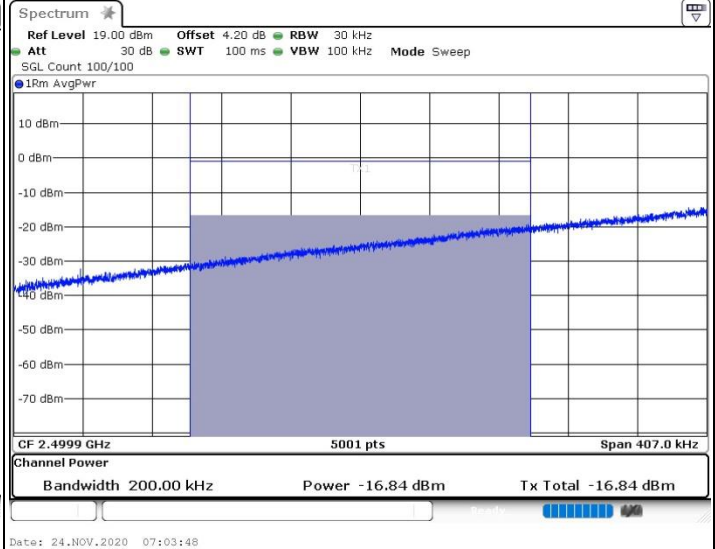


FR1 n7 / 10MHz / DFT-S OFDM QPSK

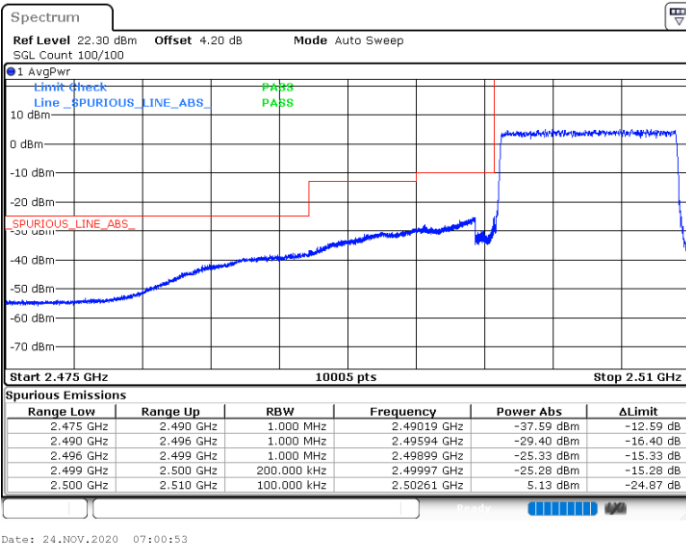
Lowest Band Edge / 1 RB



Channel Power < -13dBm Pass



Lowest Band Edge / Full RB



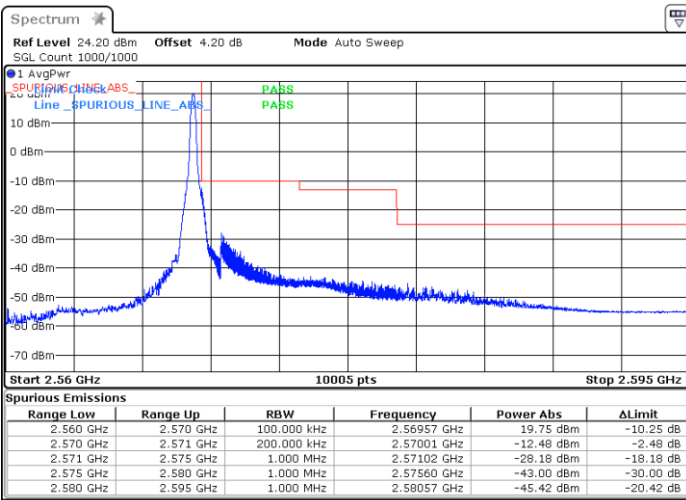
Channel Power < -13dBm Pass

/

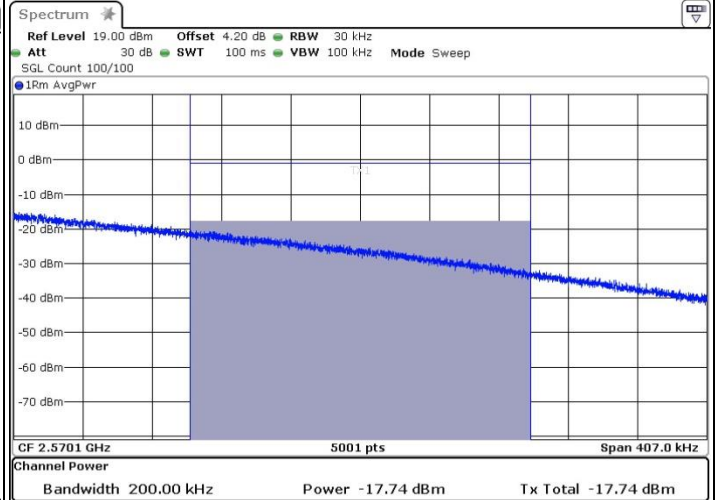


FR1 n7 / 10MHz / DFT-S OFDM QPSK

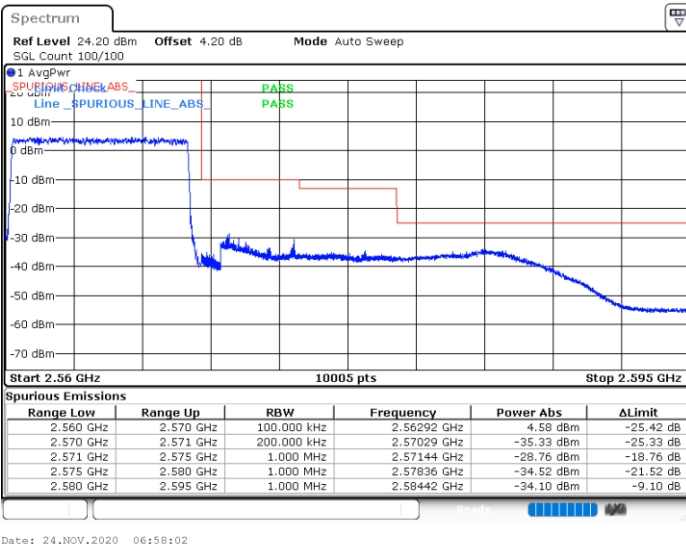
Highest Band Edge / 1 RB



Channel Power < -13dBm Pass



Highest Band Edge / Full RB



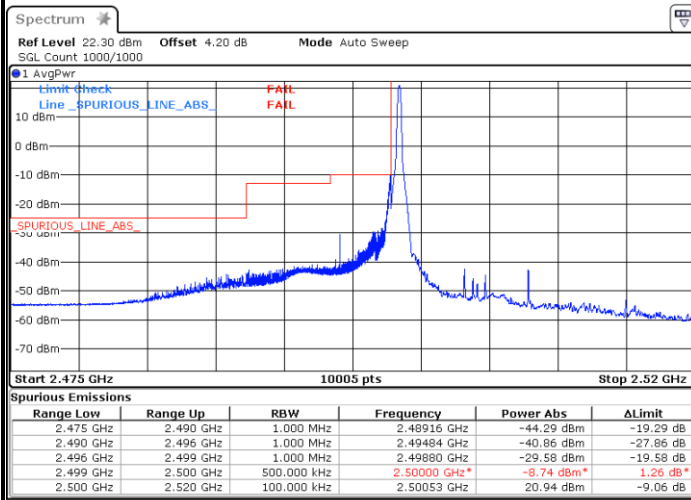
Channel Power < -13dBm Pass

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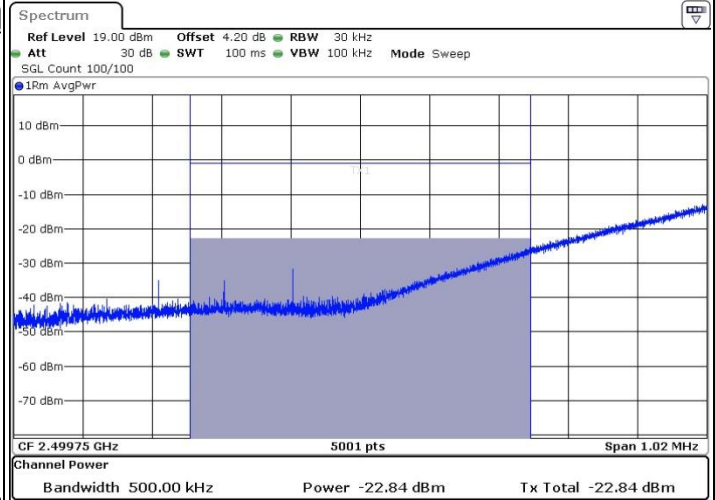


FR1 n7 / 20MHz / DFT-S OFDM BPSK

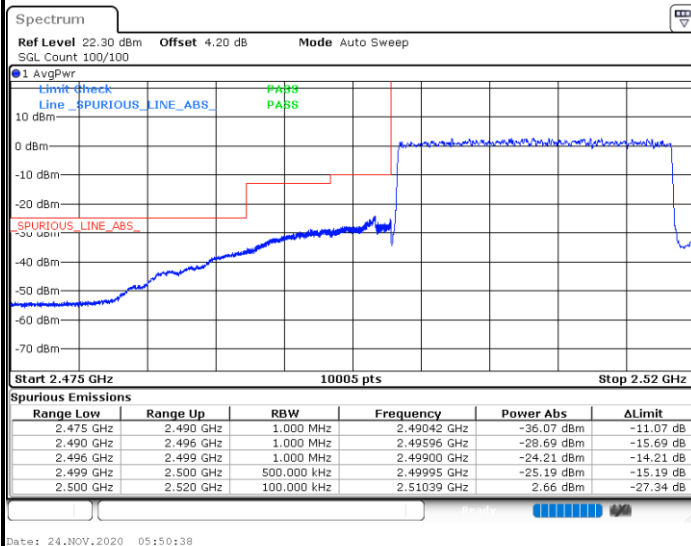
Lowest Band Edge / 1 RB



Channel Power < -13dBm Pass



Lowest Band Edge / Full RB



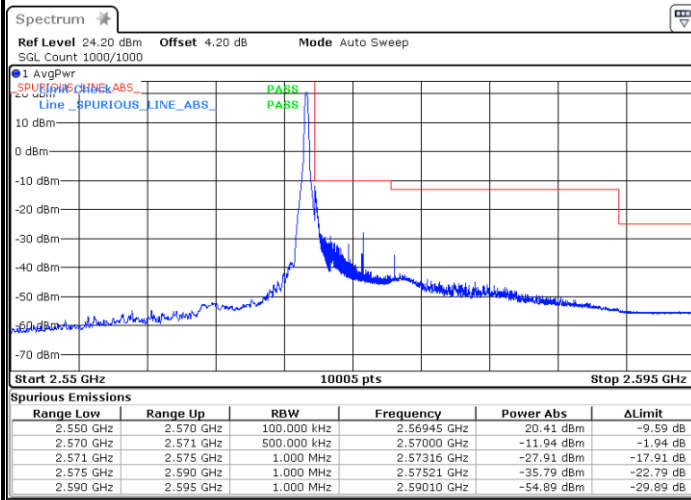
Channel Power < -13dBm Pass

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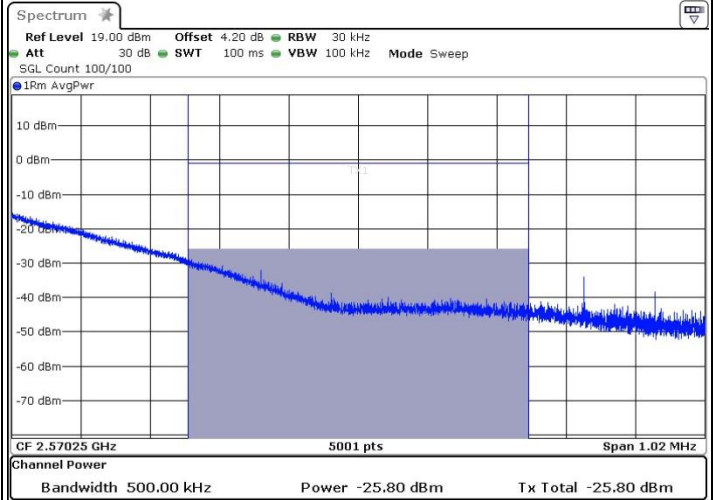


FR1 n7 / 20MHz / DFT-S OFDM BPSK

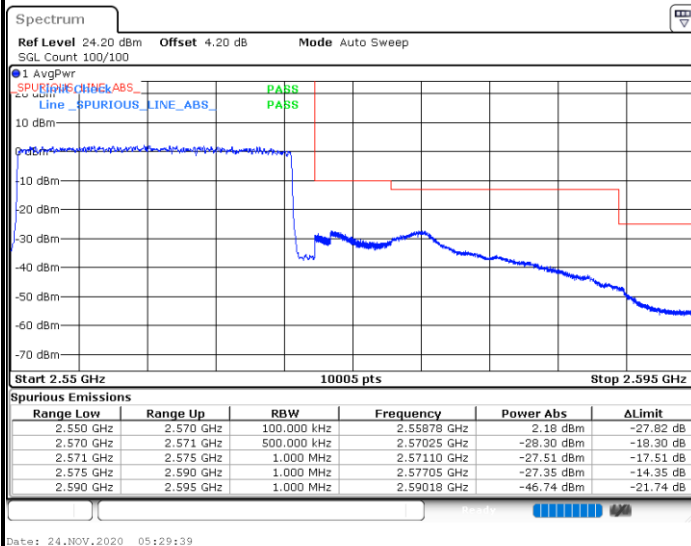
Highest Band Edge / 1 RB



Channel Power < -13dBm Pass



Highest Band Edge / Full RB



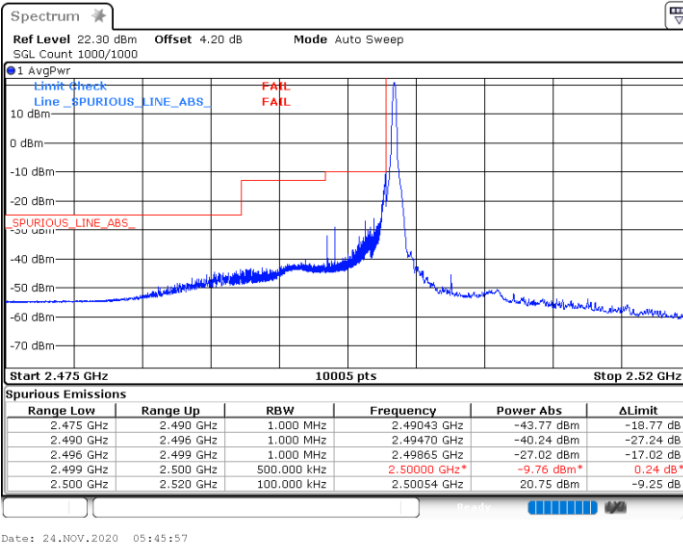
Channel Power < -13dBm Pass

/

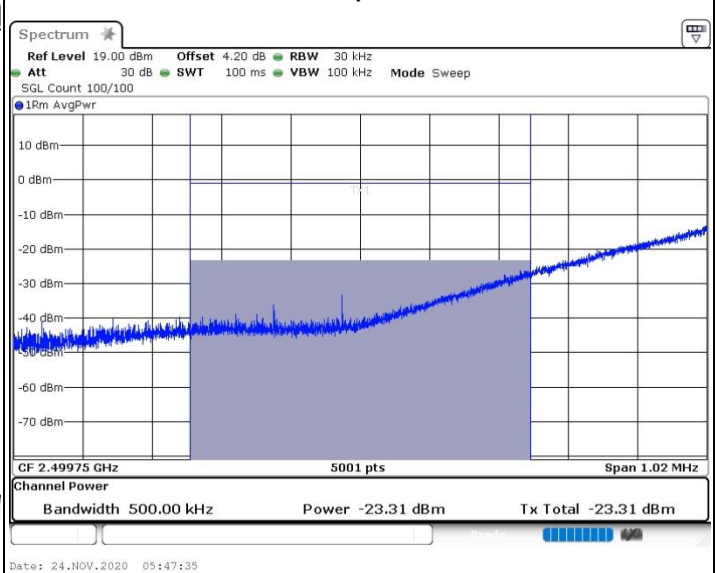


FR1 n7 / 20MHz / DFT-S OFDM QPSK

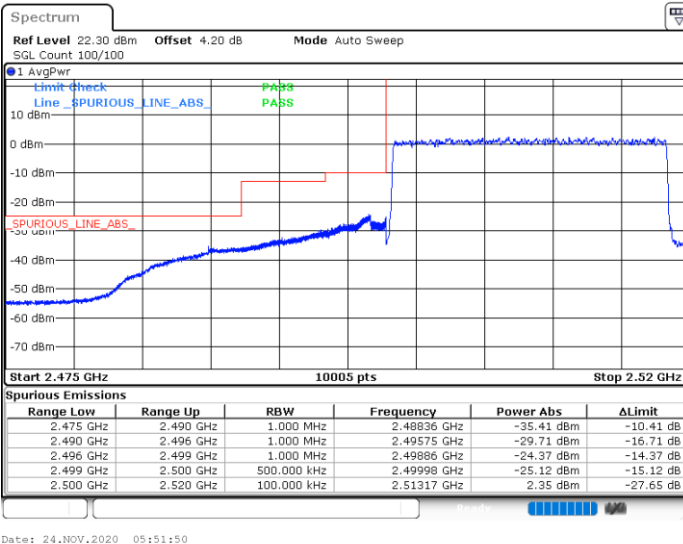
Lowest Band Edge / 1 RB



Channel Power < -13dBm Pass



Lowest Band Edge / Full RB

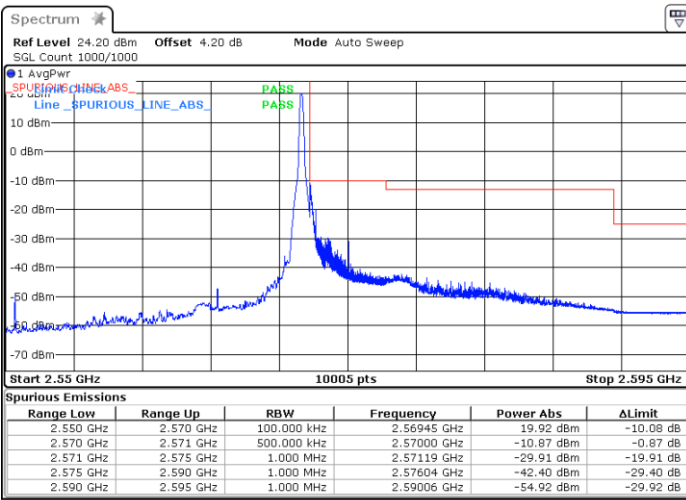


Channel Power < -13dBm Pass

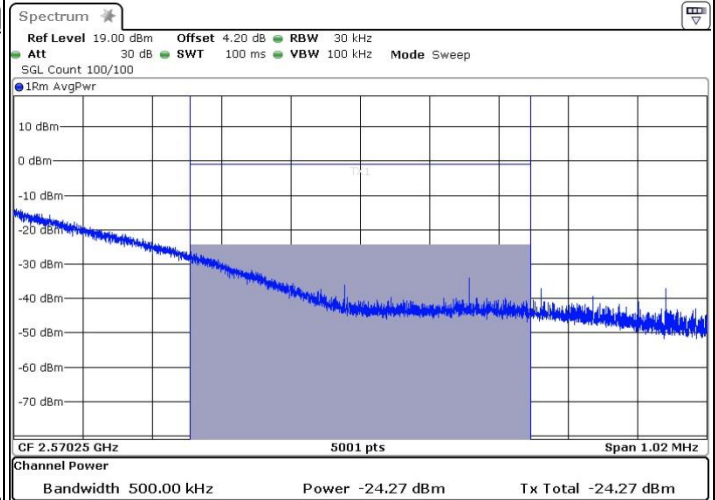


FR1 n7 / 20MHz / DFT-S OFDM QPSK

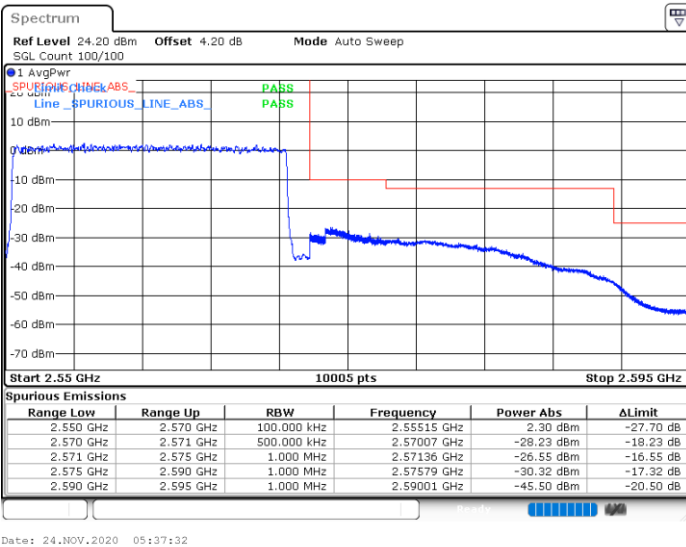
Highest Band Edge / 1 RB



Channel Power < -13dBm Pass



Highest Band Edge / Full RB



Channel Power < -13dBm Pass

/

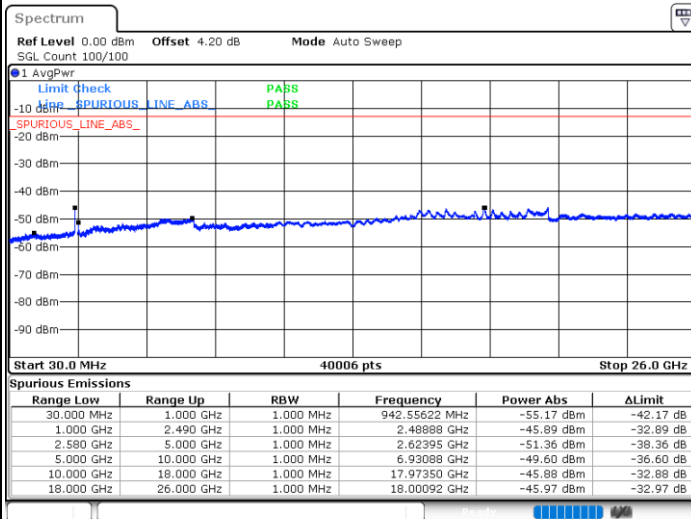


Conducted Spurious Emission

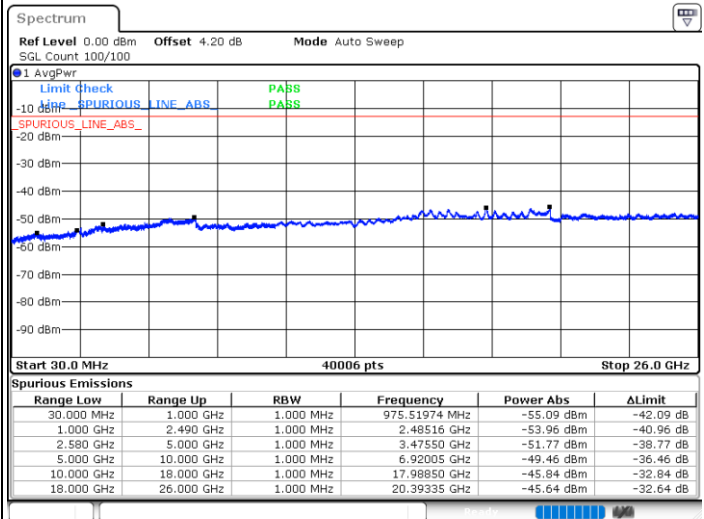
FR1 n7 / 5MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

Middle Channel / 1RB

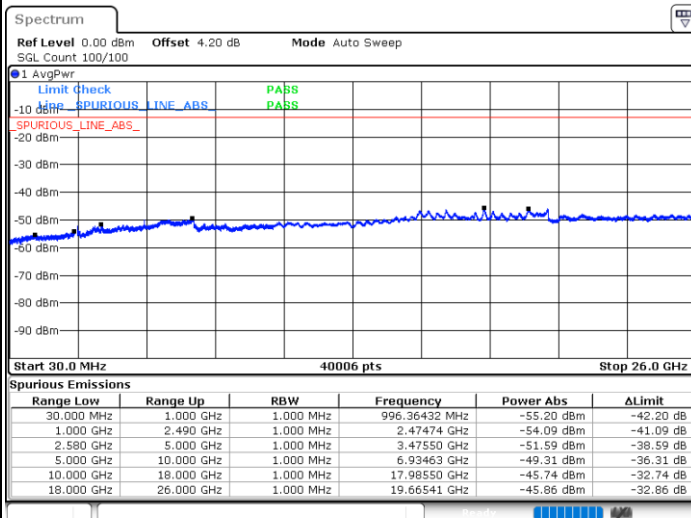


Date: 24.NOV.2020 07:22:55



Date: 24.NOV.2020 07:24:35

Highest Channel / 1RB



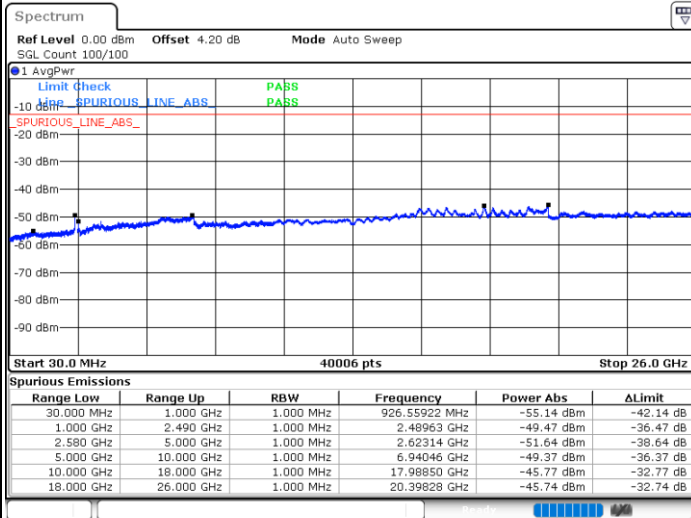
Date: 24.NOV.2020 07:27:56



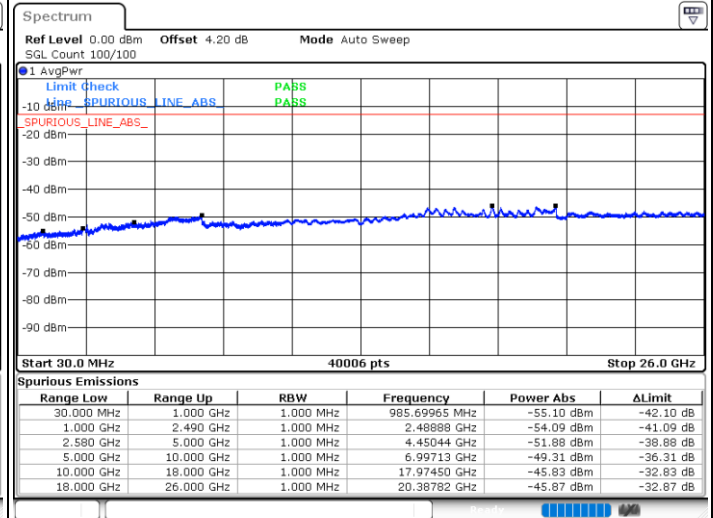
FR1 n7 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

Middle Channel / 1RB

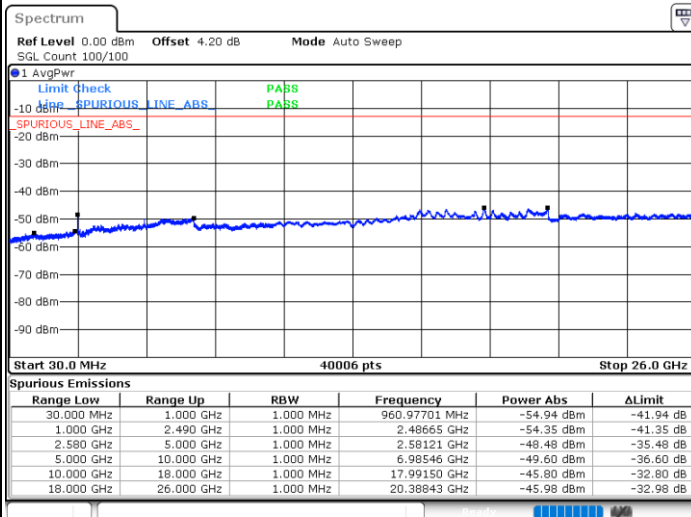


Date: 24.NOV.2020 07:21:59



Date: 24.NOV.2020 07:25:40

Highest Channel / 1RB

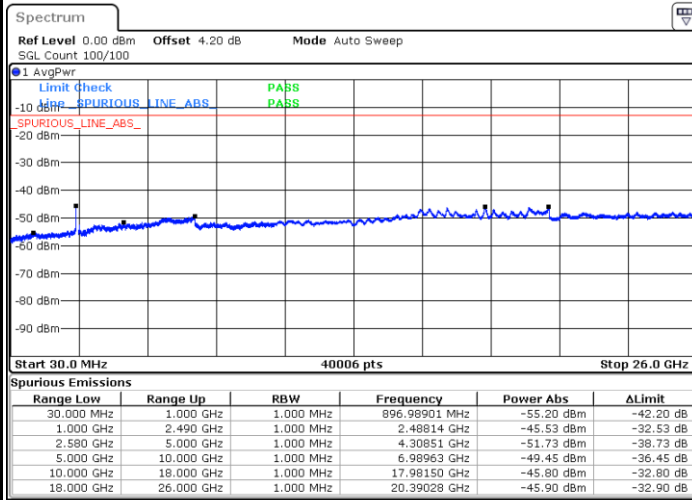


Date: 24.NOV.2020 07:26:59



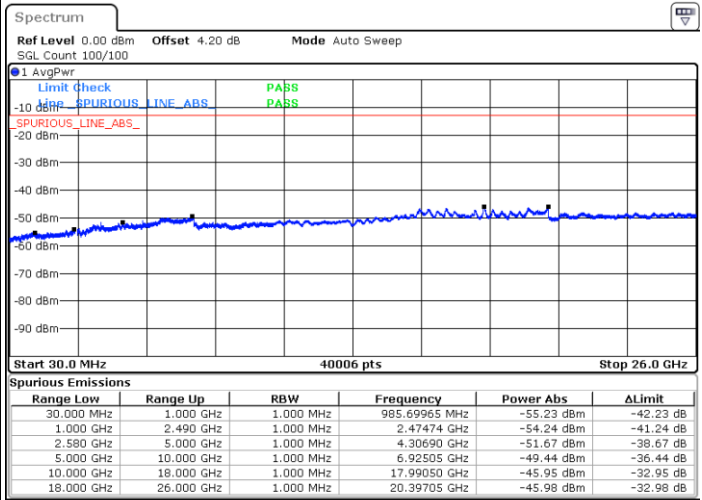
FR1 n7 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB



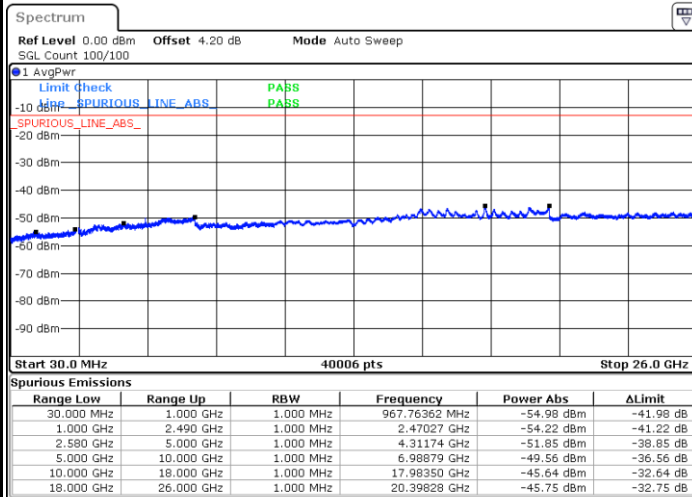
Date: 24.NOV.2020 07:13:38

Middle Channel / 1RB



Date: 24.NOV.2020 07:17:55

Highest Channel / 1RB



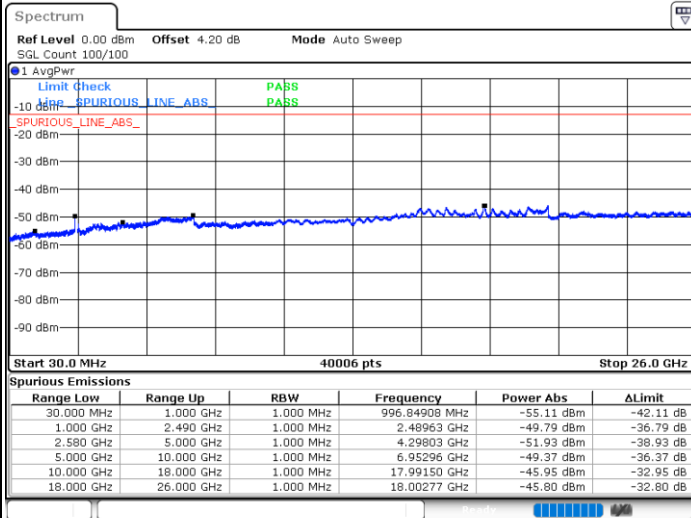
Date: 24.NOV.2020 07:19:07



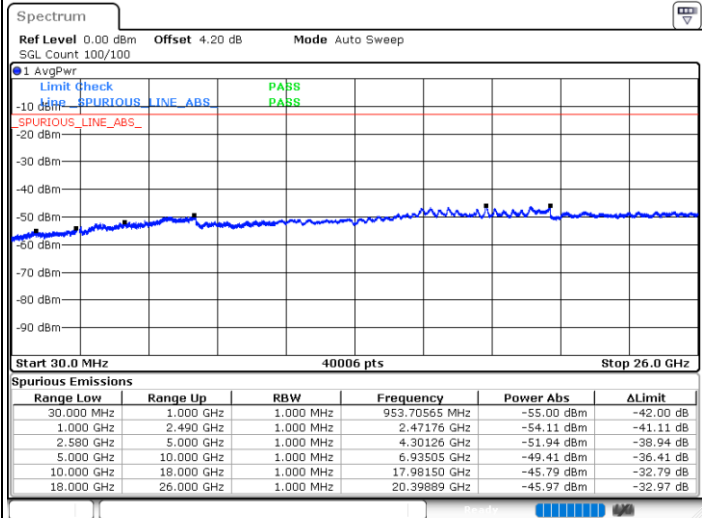
FR1 n7 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

Middle Channel / 1RB

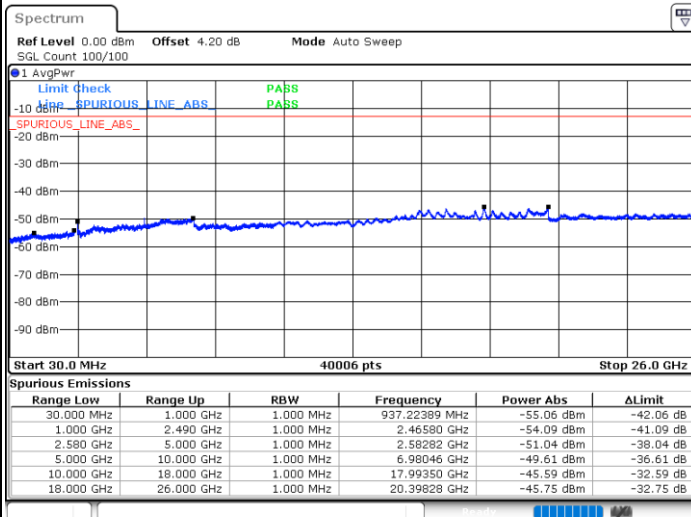


Date: 24.NOV.2020 07:15:48



Date: 24.NOV.2020 07:16:59

Highest Channel / 1RB



Date: 24.NOV.2020 07:20:11