



FCC RF Test Report

APPLICANT : Datalogic S.r.l.
EQUIPMENT : MOBILE COMPUTER/BARCODE READER
BRAND NAME : DATALOGIC
MODEL NAME : AELNRNA
FCC ID : U4G-AELNRNA
STANDARD : 47 CFR Part 27(F), 27(H), 27(M), 27(N)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Nov. 22, 2024 ~ Feb. 20, 2025

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG4N0543C	Rev. 01	Initial issue of report	Feb. 24, 2025



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	Report Only	-
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (Band 12) (Band 13) (Band 17) (Band 71)	ERP < 3 Watt	PASS	-
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 7) (Band 38) (Band 41)	EIRP < 2Watt		-
3.5	N/A	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	-	Report Only	-
3.7	§2.1051 §27.53(c)(2)(4) §27.53(g)	Conducted Band Edge Measurement (Band 12) (Band 13) (Band 17) (Band 71)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41)	§27.53(m)(4)		
3.8	§2.1051 §27.53(c)(2) §27.53(g)	Conducted Spurious Emission (Band 12) (Band 13) (Band 17) (Band 71)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7) (Band 38) (Band 41)	< 55+10log ₁₀ (P[Watts])		
3.9	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(c)(2) §27.53(f) §27.53(g)	Radiated Spurious Emission (Band 12) (Band 13) (Band 17) (Band 71)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 23.59 dB at 1592.000 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7) (Band 38) (Band 41)	< 55+10log ₁₀ (P[Watts])		

Conformity Assessment Condition:

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

Disclaimer:

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



1 General Description

1.1 Applicant

Datalogic S.r.l.

Via San Vitalino 13 CALDERARA DI RENO, BO 40012 Italy

1.2 Manufacturer

Datalogic S.r.l.

Via San Vitalino 13 CALDERARA DI RENO, BO 40012 Italy

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	MOBILE COMPUTER/BARCODE READER
Brand Name	DATALOGIC
Model Name	AELNRNA
FCC ID	U4G-AELNRNA
IMEI/SN Code	Conducted: 356616170009222 Radiation: X24N00016
HW Version	V3
SW Version	1.18.001.20241225
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 7 : 2500 MHz ~ 2570 MHz LTE Band 12 : 699 MHz ~ 716 MHz LTE Band 13 : 777 MHz ~ 787 MHz LTE Band 17 : 704 MHz ~ 716 MHz LTE Band 38 : 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz LTE Band 71 : 663 MHz ~ 698 MHz
Rx Frequency	LTE Band 7 : 2620 MHz ~ 2690 MHz LTE Band 12 : 729 MHz ~ 746 MHz LTE Band 13 : 746 MHz ~ 756 MHz LTE Band 17 : 734 MHz ~ 746 MHz LTE Band 38 : 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz LTE Band 71 : 617 MHz ~ 652 MHz
Bandwidth	LTE Band 7 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13 : 5MHz / 10MHz LTE Band 17 : 5MHz / 10MHz LTE Band 38 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 71 : 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	<Ant.0> LTE Band 7 : 22.74 dBm LTE Band 38 : 23.71 dBm LTE Band 41 : 23.72 dBm <Ant.1> LTE Band 7 : 23.67 dBm LTE Band 12 : 24.33 dBm LTE Band 13 : 24.06 dBm LTE Band 17 : 24.25 dBm LTE Band 38 : 23.72 dBm LTE Band 41 : 23.98 dBm LTE Band 71 : 23.58 dBm <Ant.0> LTE Band 7 : 23.80 dBm LTE Band 38 : 23.95 dBm LTE Band 41 : 23.97 dBm
Antenna Gain	<Ant.0> LTE Band 7 : -0.5 dBi LTE Band 38 : -0.5 dBi LTE Band 41 : -0.5 dBi <Ant.1> LTE Band 7 : -1.5 dBi LTE Band 12 : -3.5 dBi LTE Band 13 : -3.5 dBi LTE Band 17 : -3.5 dBi LTE Band 38 : -1.5 dBi LTE Band 41 : -1.5 dBi LTE Band 71 : -4.5 dBi <Ant.2>



	LTE Band 7 : -1.0 dBi LTE Band 38 : -1.0 dBi LTE Band 41 : -1.0 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

Note: The maximum ERP/EIRP is calculated from max output power and max antenna gain, only the maximum ERP/EIRP of Ant.0 for LTE Band 38/41, Ant.1 for LTE Band 12/13/17/71 and Ant.2 for LTE Band 7 are shown in the report.

1.5 Modification of EUT

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

1.6 Maximum ERP/EIRP Power and Emission Designator

LTE Band 7		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2502.5 ~ 2567.5	0.1884	4M51G7D	0.1459	4M51W7D
10	2505.0 ~ 2565.0	0.1892	9M07G7D	0.1452	8M99W7D
15	2507.5 ~ 2562.5	0.1884	13M5G7D	0.1459	13M6W7D
20	2510.0 ~ 2560.0	0.1905	18M0G7D	0.1483	17M9W7D
LTE Band 12		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
1.4	699.7 ~ 715.3	0.0724	1M10G7D	0.0574	1M11W7D
3	700.5 ~ 714.5	0.0723	2M73G7D	0.0573	2M73W7D
5	701.5 ~ 713.5	0.0719	4M53G7D	0.0575	4M51W7D
10	704.0 ~ 711.0	0.0738	9M03G7D	0.0586	9M05W7D
LTE Band 13		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
5	779.5 ~ 784.5	0.0687	4M51G7D	0.0540	4M55W7D
10	782.0	0.0693	9M05G7D	0.0550	8M99W7D
LTE Band 17		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
5	706.5 ~ 713.5	0.0711	4M53G7D	0.0557	4M51W7D
10	709.0 ~ 711.0	0.0724	9M03G7D	0.0574	9M05W7D



LTE Band 38		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2572.5 ~ 2617.5	0.2080	4M49G7D	0.1652	4M49W7D
10	2575.0 ~ 2615.0	0.2080	8M99G7D	0.1671	9M01W7D
15	2577.5 ~ 2612.5	0.2089	13M4G7D	0.1656	13M4W7D
20	2580.0 ~ 2610.0	0.2094	17M9G7D	0.1687	17M9W7D
LTE Band 41		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2498.5 ~ 2687.5	0.2075	4M49G7D	0.1570	4M49W7D
10	2501.0 ~ 2685.0	0.2056	8M99G7D	0.1567	9M01W7D
15	2503.5 ~ 2682.5	0.2056	13M4G7D	0.1581	13M4W7D
20	2506.0 ~ 2680.0	0.2099	17M9G7D	0.1600	17M9W7D
LTE Band 71		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
5	665.5 ~ 695.5	0.0488	4M50G7D	0.0363	4M48W7D
10	668.0 ~ 693.0	0.0489	9M07G7D	0.0361	9M09W7D
15	670.5 ~ 690.5	0.0485	13M5G7D	0.0360	13M5W7D
20	673.0 ~ 688.0	0.0493	17M8G7D	0.0370	17M9W7D

Note:

1. LTE Band 12 overlaps the entire frequency range of LTE Band 17. Therefore, the test results provided in this report covers Band 12 as well as Band 17.
2. LTE Band 41 overlaps the entire frequency range of LTE Band 38. Therefore, the test results provided in this report covers Band 41 as well as Band 38.
3. All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.



1.7 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH04-KS TH01-KS	CN1257	314309

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	TH01-KS	SPORTON	FCC LTE_Ver2.0 Auto_china_210503	2.0
2.	03CH04-KS	AUDIX	E3	210616

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 27(F), 27(H), 27(M), 27(N)
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

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



2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

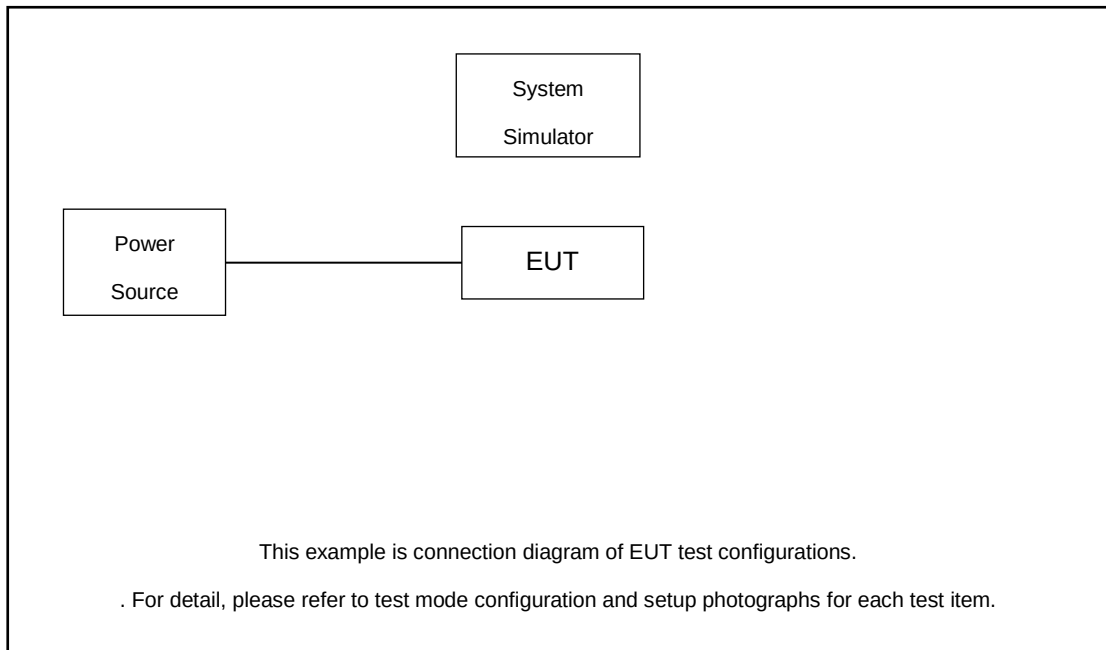
For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z for Adapter mode, Cradle mode and Earphone mode. The worst cases (Z-Plane-Adapter mode) were recorded in this report.

Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	12	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	13	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	17	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	38	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	71	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	7	-	-				v	v	v	v	v			v		v	
	12				v	-	-	v	v	v	v			v		v	
	13	-	-		v	-	-	v	v	v	v			v		v	
	41	-	-				v	v	v	v	v			v		v	
	71	-	-				v	v	v	v	v			v		v	
26dB and 99% Bandwidth	7	-	-	v	v	v	v	v	v					v		v	
	12	v	v	v	v	-	-	v	v					v		v	
	13	-	-	v	v	-	-	v	v					v		v	
	41	-	-	v	v	v	v	v	v					v		v	
	71	-	-	v	v	v	v	v	v					v		v	
Conducted Band Edge	7	-	-	v	v	v	v	v	v	v	v	v		v	v		v
	12	v	v	v	v	-	-	v	v	v	v	v		v	v		v
	13	-	-	v	v	-	-	v	v	v	v	v		v	v		v
	41	-	-	v	v	v	v	v	v	v	v	v		v	v		v
	71	-	-	v	v	v	v	v	v	v	v	v		v	v		v



Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Conducted Spurious Emission	7	-	-	v	v	v	v	v				v			v	v	v
	12	v	v	v	v	-	-	v				v			v	v	v
	13	-	-	v	v	-	-	v				v			v	v	v
	41	-	-	v	v	v	v	v				v			v	v	v
	71	-	-	v	v	v	v	v				v			v	v	v
Frequency Stability	7	-	-		v			v						v		v	
	12				v	-	-	v						v		v	
	13	-	-		v	-	-	v						v		v	
	41	-	-		v			v						v		v	
	71	-	-		v			v						v		v	
E.R.P / E.I.R.P	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	12	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	13	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	17	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	38	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	71	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	7	Worst Case													v	v	v
	12	Worst Case													v	v	v
	13	Worst Case													v	v	v
	41	Worst Case													v	v	v
	71	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.																

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

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

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss.

Following shows an offset computation example with cable loss 6.0 dB.

Example :

Offset(dB) = RF cable loss(dB).

= 6.0 (dB)

2.5 Frequency List of Low/Middle/High Channels

LTE Band 7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20850	21100	21350
	Frequency	2510	2535	2560
15	Channel	20825	21100	21375
	Frequency	2507.5	2535	2562.5
10	Channel	20800	21100	21400
	Frequency	2505	2535	2565
5	Channel	20775	21100	21425
	Frequency	2502.5	2535	2567.5

LTE Band 12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23060	23095	23130
	Frequency	704	707.5	711
5	Channel	23035	23095	23155
	Frequency	701.5	707.5	713.5
3	Channel	23025	23095	23165
	Frequency	700.5	707.5	714.5
1.4	Channel	23017	23095	23173
	Frequency	699.7	707.5	715.3

LTE Band 13 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	23230	-
	Frequency	-	782	-
5	Channel	23205	23230	23255
	Frequency	779.5	782	784.5



LTE Band 17 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23780	23790	23800
	Frequency	709	710	711
5	Channel	23755	23790	23825
	Frequency	706.5	710	713.5

LTE Band 38 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	37850	38000	38150
	Frequency	2580	2595	2610
15	Channel	37825	38000	38175
	Frequency	2577.5	2595	2612.5
10	Channel	37800	38000	38200
	Frequency	2575	2595	2615
5	Channel	37775	38000	38225
	Frequency	2572.5	2595	2617.5

LTE Band 41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	39750	40620	41490
	Frequency	2506	2593	2680
15	Channel	39725	40620	41515
	Frequency	2503.5	2593	2682.5
10	Channel	39700	40620	41540
	Frequency	2501	2593	2685
5	Channel	39675	40620	41565
	Frequency	2498.5	2593	2687.5



LTE Band 71 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	133222	133322	133372
	Frequency	673.0	680.5	688.0
15	Channel	133197	133297	133397
	Frequency	670.5	680.5	690.5
10	Channel	133172	133272	133422
	Frequency	668.0	678.0	693.0
5	Channel	133147	133247	133447
	Frequency	665.5	675.5	695.5

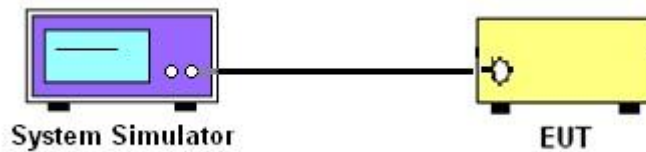
3 Conducted Test Items

3.1 Measuring Instruments

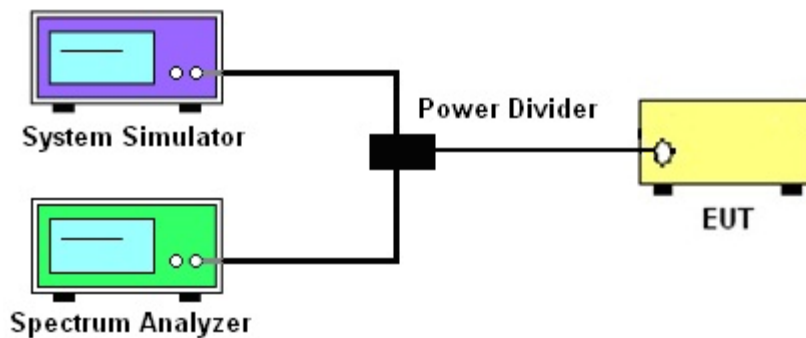
See list of measuring instruments of this test report.

3.2 Test Setup

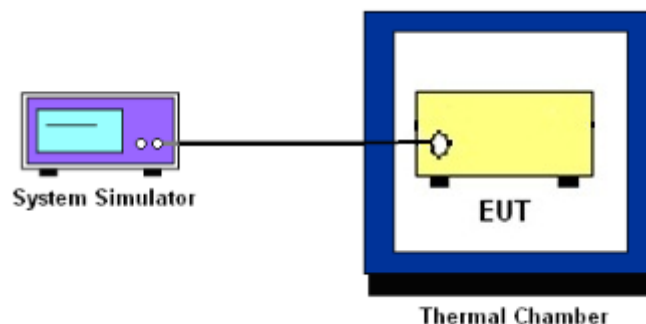
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

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

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

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12, Band 13 and Band 17 and Band 71.

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 7 and Band 38 and Band 41.

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 (c)

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

27.53 (g)

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

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.

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW $\geq 1\%/2\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.

4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used and the measured power was integrated over the full required measurement bandwidth of 1 MHz.
5. Set spectrum analyzer with RMS detector.
6. Offset has included the duty factor for LTE Band 41. Duty factor = $10 \log (1/x)$, where x is the measured duty cycle
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)

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

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

9. For LTE Band 7, 38, 41, the other 40 dB, and 55 dB have additionally applied same calculation above.
10. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.

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 Band 7,38,41:

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. Offset has included the duty factor for LTE Band 41. Duty factor = $10 \log (1/x)$, where x is the measured duty cycle
9. Taking the record of maximum spurious emission.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
11. 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.
12. For Band 7, 38, 41
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.

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±5°C and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

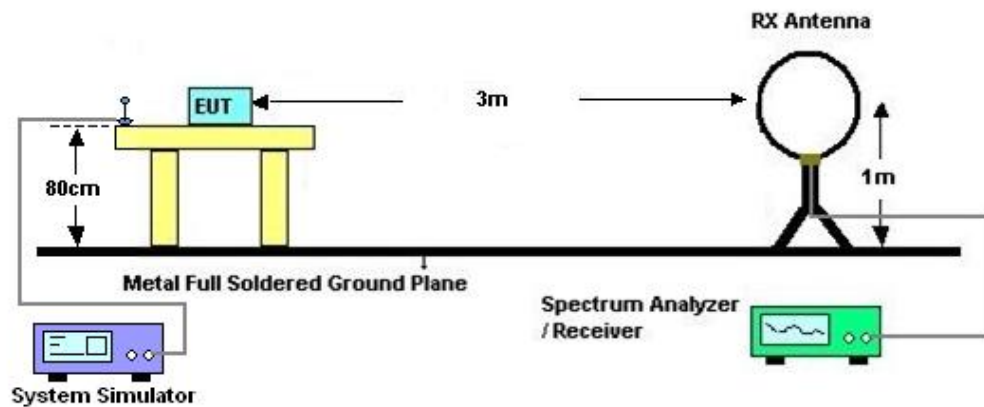
4 Radiated Test Items

4.1 Measuring Instruments

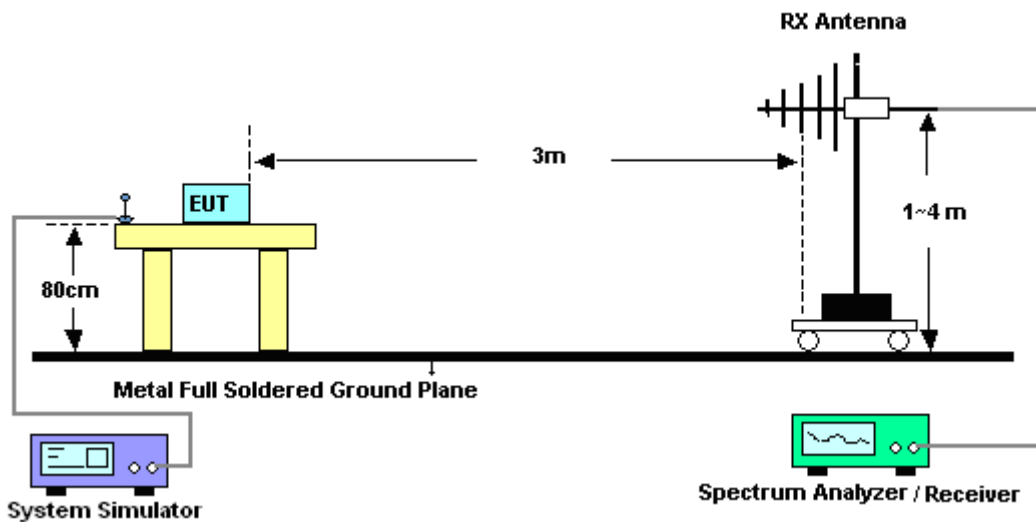
See list of measuring instruments of this test report.

4.2 Test Setup

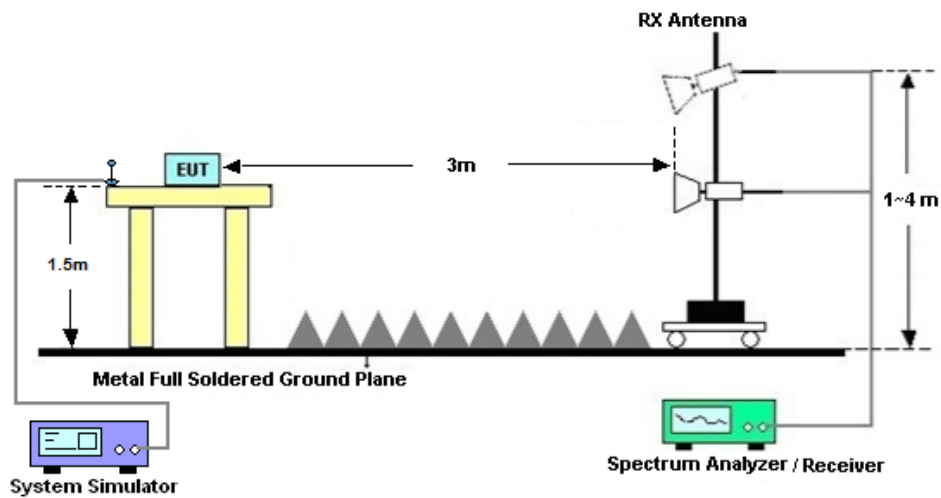
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.

4.4 Radiated Spurious Emission

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 Band 7, 38, 41

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.

For LTE Band 13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

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. $\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$
11. $\text{ERP (dBm)} = \text{EIRP} - 2.15$
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 Band 7, 38, 41:

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	101040	10Hz~40GHz	Oct. 10, 2024	Nov. 22, 2024~ Feb. 20, 2025	Oct. 09, 2025	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Nov. 22, 2024~ Feb. 20, 2025	NCR	Conducted (TH01-KS)
Temperature & humidity	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 04, 2024	Nov. 22, 2024~ Feb. 20, 2025	Jul. 03, 2025	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz~44G,MAX 30dB	Oct. 11, 2024	Jan. 19, 2025	Oct. 10, 2025	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Jan. 19, 2025	Sep. 07, 2025	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz~1GHz	Nov. 23, 2024	Jan. 19, 2025	Nov. 22, 2025	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00227860	1GHz~18GHz	Aug. 16, 2024	Jan. 19, 2025	Aug. 15, 2025	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101116	18GHz~40GHz	Oct. 22, 2024	Jan. 19, 2025	Oct. 21, 2025	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	380826	9KHz~1GHz	Jul. 03, 2024	Jan. 19, 2025	Jul. 02, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM18G40G A	060852	18~40GHz	Jan. 03, 2025	Jan. 19, 2025	Jan. 02, 2026	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz~18Ghz	Oct. 09, 2024	Jan. 19, 2025	Oct. 08, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM01G18G A	060892	1Ghz~18Ghz	Oct. 09, 2024	Jan. 19, 2025	Oct. 08, 2025	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jan. 19, 2025	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jan. 19, 2025	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jan. 19, 2025	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

6 Measurement Uncertainty

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

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	± 2.26 dB
Occupied Channel Bandwidth	$\pm 0.1\%$
Conducted Power	± 0.50 dB
Peak to Average Ratio	± 0.50 dB
Frequency Stability	± 0.04 ppm

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.30 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.83 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

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



Appendix A. Test Results of Conducted Test

Test Engineer :	Simle Wang	Temperature :	22~23°C
		Relative Humidity :	40~42%

Conducted Output Power(Average power) and ERP/EIRP

LTE Band 7 <Ant.2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP	EIRP	EIRP
Channel				20850	21100	21350	20850	21100	21350
Frequency (MHz)				2510	2535	2560	2510	2535	2560
20	QPSK	1	0	23.67	23.80	23.78	0.1849	0.1905	0.1897
20	QPSK	1	49	23.46	23.56	23.54	0.1762	0.1803	0.1795
20	QPSK	1	99	23.66	23.50	23.54	0.1845	0.1778	0.1795
20	QPSK	50	0	22.74	22.79	22.72	0.1493	0.1510	0.1486
20	QPSK	50	24	22.44	22.48	22.64	0.1393	0.1406	0.1459
20	QPSK	50	50	22.71	22.49	22.65	0.1483	0.1409	0.1462
20	QPSK	100	0	22.62	22.71	22.62	0.1452	0.1483	0.1452
20	16QAM	1	0	22.71	22.61	22.54	0.1483	0.1449	0.1426
20	16QAM	1	49	22.58	22.60	22.58	0.1439	0.1445	0.1439
20	16QAM	1	99	22.62	22.70	22.49	0.1452	0.1479	0.1409
20	16QAM	50	0	21.72	21.51	21.68	0.1180	0.1125	0.1169
20	16QAM	50	24	21.72	21.51	21.57	0.1180	0.1125	0.1140
20	16QAM	50	50	21.57	21.59	21.67	0.1140	0.1146	0.1167
20	16QAM	100	0	21.58	21.44	21.52	0.1143	0.1107	0.1127
20	64QAM	1	0	21.63	21.59	21.59	0.1156	0.1146	0.1146
20	64QAM	1	49	21.56	21.51	21.56	0.1138	0.1125	0.1138
20	64QAM	1	99	21.53	21.51	21.72	0.1130	0.1125	0.1180
20	64QAM	50	0	20.69	20.69	20.86	0.0931	0.0931	0.0968
20	64QAM	50	24	20.76	20.71	20.62	0.0946	0.0935	0.0916
20	64QAM	50	50	20.68	20.49	20.65	0.0929	0.0889	0.0923
20	64QAM	100	0	20.79	20.71	20.75	0.0953	0.0935	0.0944
20	256QAM	1	0	18.63	18.33	18.41	0.0579	0.0541	0.0551



20	256QAM	1	49	18.58	18.46	18.38	0.0573	0.0557	0.0547
20	256QAM	1	99	18.36	18.58	18.54	0.0545	0.0573	0.0568
20	256QAM	50	0	18.45	18.34	18.55	0.0556	0.0542	0.0569
20	256QAM	50	24	18.58	18.48	18.65	0.0573	0.0560	0.0582
20	256QAM	50	50	18.57	18.61	18.41	0.0571	0.0577	0.0551
20	256QAM	100	0	18.55	18.46	18.70	0.0569	0.0557	0.0589
Channel				20825	21100	21375	20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5	2507.5	2535	2562.5
15	QPSK	1	0	23.62	23.75	23.73	0.1828	0.1884	0.1875
15	QPSK	1	37	23.40	23.51	23.41	0.1738	0.1782	0.1742
15	QPSK	1	74	23.61	23.44	23.51	0.1824	0.1754	0.1782
15	QPSK	36	0	22.69	22.66	22.65	0.1476	0.1466	0.1462
15	QPSK	36	20	22.36	22.43	22.55	0.1368	0.1390	0.1429
15	QPSK	36	39	22.58	22.36	22.56	0.1439	0.1368	0.1432
15	QPSK	75	0	22.53	22.62	22.54	0.1422	0.1452	0.1426
15	16QAM	1	0	22.62	22.54	22.47	0.1452	0.1426	0.1403
15	16QAM	1	37	22.49	22.48	22.45	0.1409	0.1406	0.1396
15	16QAM	1	74	22.52	22.64	22.38	0.1419	0.1459	0.1374
15	16QAM	36	0	21.64	21.43	21.61	0.1159	0.1104	0.1151
15	16QAM	36	20	21.62	21.47	21.48	0.1153	0.1114	0.1117
15	16QAM	36	39	21.48	21.53	21.57	0.1117	0.1130	0.1140
15	16QAM	75	0	21.53	21.37	21.43	0.1130	0.1089	0.1104
15	64QAM	1	0	21.52	21.53	21.47	0.1127	0.1130	0.1114
15	64QAM	1	37	21.51	21.43	21.46	0.1125	0.1104	0.1112
15	64QAM	1	74	21.43	21.47	21.62	0.1104	0.1114	0.1153
15	64QAM	36	0	20.65	20.61	20.80	0.0923	0.0914	0.0955
15	64QAM	36	20	20.65	20.61	20.57	0.0923	0.0914	0.0906
15	64QAM	36	39	20.59	20.41	20.57	0.0910	0.0873	0.0906
15	64QAM	75	0	20.74	20.65	20.68	0.0942	0.0923	0.0929
15	256QAM	1	0	18.59	18.22	18.36	0.0574	0.0527	0.0545
15	256QAM	1	37	18.50	18.42	18.28	0.0562	0.0552	0.0535
15	256QAM	1	74	18.30	18.55	18.44	0.0537	0.0569	0.0555
15	256QAM	36	0	18.33	18.27	18.45	0.0541	0.0533	0.0556
15	256QAM	36	20	18.52	18.37	18.57	0.0565	0.0546	0.0571
15	256QAM	36	39	18.53	18.55	18.34	0.0566	0.0569	0.0542
15	256QAM	75	0	18.44	18.38	18.59	0.0555	0.0547	0.0574



Channel				20800	21100	21400	20800	21100	21400
Frequency (MHz)				2505	2535	2565	2505	2535	2565
10	QPSK	1	0	23.62	23.77	23.67	0.1828	0.1892	0.1849
10	QPSK	1	25	23.43	23.44	23.47	0.1750	0.1754	0.1766
10	QPSK	1	49	23.55	23.44	23.43	0.1799	0.1754	0.1750
10	QPSK	25	0	22.70	22.73	22.65	0.1479	0.1489	0.1462
10	QPSK	25	12	22.40	22.43	22.54	0.1380	0.1390	0.1426
10	QPSK	25	25	22.63	22.42	22.56	0.1455	0.1387	0.1432
10	QPSK	50	0	22.55	22.65	22.51	0.1429	0.1462	0.1416
10	16QAM	1	0	22.62	22.52	22.50	0.1452	0.1419	0.1413
10	16QAM	1	25	22.54	22.55	22.53	0.1426	0.1429	0.1422
10	16QAM	1	49	22.53	22.57	22.43	0.1422	0.1435	0.1390
10	16QAM	25	0	21.68	21.45	21.65	0.1169	0.1109	0.1161
10	16QAM	25	12	21.68	21.47	21.50	0.1169	0.1114	0.1122
10	16QAM	25	25	21.54	21.53	21.59	0.1132	0.1130	0.1146
10	16QAM	50	0	21.48	21.31	21.47	0.1117	0.1074	0.1114
10	64QAM	1	0	21.52	21.50	21.54	0.1127	0.1122	0.1132
10	64QAM	1	25	21.47	21.47	21.52	0.1114	0.1114	0.1127
10	64QAM	1	49	21.41	21.43	21.66	0.1099	0.1104	0.1164
10	64QAM	25	0	20.64	20.66	20.79	0.0920	0.0925	0.0953
10	64QAM	25	12	20.65	20.68	20.57	0.0923	0.0929	0.0906
10	64QAM	25	25	20.62	20.43	20.61	0.0916	0.0877	0.0914
10	64QAM	50	0	20.76	20.68	20.64	0.0946	0.0929	0.0920
10	256QAM	1	0	18.56	18.24	18.34	0.0570	0.0530	0.0542
10	256QAM	1	25	18.50	18.36	18.32	0.0562	0.0545	0.0540
10	256QAM	1	49	18.30	18.48	18.48	0.0537	0.0560	0.0560
10	256QAM	25	0	18.41	18.29	18.51	0.0551	0.0536	0.0564
10	256QAM	25	12	18.46	18.45	18.60	0.0557	0.0556	0.0575
10	256QAM	25	25	18.52	18.53	18.34	0.0565	0.0566	0.0542
10	256QAM	50	0	18.42	18.38	18.60	0.0552	0.0547	0.0575
Channel				20775	21100	21425	20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5	2502.5	2535	2567.5
5	QPSK	1	0	23.61	23.75	23.72	0.1824	0.1884	0.1871
5	QPSK	1	12	23.38	23.45	23.48	0.1730	0.1758	0.1770
5	QPSK	1	24	23.61	23.39	23.43	0.1824	0.1734	0.1750
5	QPSK	12	0	22.68	22.68	22.67	0.1472	0.1472	0.1469



5	QPSK	12	7	22.40	22.37	22.61	0.1380	0.1371	0.1449
5	QPSK	12	13	22.66	22.43	22.53	0.1466	0.1390	0.1422
5	QPSK	25	0	22.57	22.60	22.52	0.1435	0.1445	0.1419
5	16QAM	1	0	22.64	22.52	22.43	0.1459	0.1419	0.1390
5	16QAM	1	12	22.48	22.49	22.53	0.1406	0.1409	0.1422
5	16QAM	1	24	22.56	22.63	22.39	0.1432	0.1455	0.1377
5	16QAM	12	0	21.63	21.39	21.59	0.1156	0.1094	0.1146
5	16QAM	12	7	21.64	21.47	21.54	0.1159	0.1114	0.1132
5	16QAM	12	13	21.46	21.52	21.59	0.1112	0.1127	0.1146
5	16QAM	25	0	21.45	21.36	21.45	0.1109	0.1086	0.1109
5	64QAM	1	0	21.53	21.53	21.53	0.1130	0.1130	0.1130
5	64QAM	1	12	21.45	21.42	21.49	0.1109	0.1102	0.1119
5	64QAM	1	24	21.49	21.47	21.68	0.1119	0.1114	0.1169
5	64QAM	12	0	20.56	20.65	20.79	0.0904	0.0923	0.0953
5	64QAM	12	7	20.72	20.60	20.54	0.0938	0.0912	0.0899
5	64QAM	12	13	20.59	20.45	20.62	0.0910	0.0881	0.0916
5	64QAM	25	0	20.70	20.61	20.66	0.0933	0.0914	0.0925
5	256QAM	1	0	18.60	18.22	18.34	0.0575	0.0527	0.0542
5	256QAM	1	12	18.54	18.36	18.28	0.0568	0.0545	0.0535
5	256QAM	1	24	18.32	18.46	18.42	0.0540	0.0557	0.0552
5	256QAM	12	0	18.40	18.21	18.52	0.0550	0.0526	0.0565
5	256QAM	12	7	18.54	18.44	18.55	0.0568	0.0555	0.0569
5	256QAM	12	13	18.48	18.50	18.33	0.0560	0.0562	0.0541
5	256QAM	25	0	18.48	18.34	18.58	0.0560	0.0542	0.0573



LTE Band 38 <Ant.0>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP	EIRP	EIRP
Channel				37850	38000	38150	37850	38000	38150
Frequency (MHz)				2580	2595	2610	2580	2595	2610
20	QPSK	1	0	23.70	23.71	23.66	0.2089	0.2094	0.2070
20	QPSK	1	49	23.55	23.61	23.48	0.2018	0.2046	0.1986
20	QPSK	1	99	23.66	23.68	23.47	0.2070	0.2080	0.1982
20	QPSK	50	0	22.73	22.81	22.79	0.1671	0.1702	0.1694
20	QPSK	50	24	22.61	22.67	22.63	0.1626	0.1648	0.1633
20	QPSK	50	50	22.62	22.73	22.68	0.1629	0.1671	0.1652
20	QPSK	100	0	22.67	22.76	22.69	0.1648	0.1683	0.1656
20	16QAM	1	0	22.77	22.58	22.77	0.1687	0.1614	0.1687
20	16QAM	1	49	22.65	22.69	22.77	0.1641	0.1656	0.1687
20	16QAM	1	99	22.73	22.71	22.58	0.1671	0.1663	0.1614
20	16QAM	50	0	21.62	21.63	21.67	0.1294	0.1297	0.1309
20	16QAM	50	24	21.71	21.71	21.76	0.1321	0.1321	0.1337
20	16QAM	50	50	21.86	21.77	21.66	0.1368	0.1340	0.1306
20	16QAM	100	0	21.65	21.70	21.69	0.1303	0.1318	0.1315
20	64QAM	1	0	21.74	21.76	21.65	0.1330	0.1337	0.1303
20	64QAM	1	49	21.85	21.79	21.71	0.1365	0.1346	0.1321
20	64QAM	1	99	21.82	21.68	21.77	0.1355	0.1312	0.1340
20	64QAM	50	0	20.67	20.58	20.48	0.1040	0.1019	0.0995
20	64QAM	50	24	20.49	20.53	20.63	0.0998	0.1007	0.1030
20	64QAM	50	50	20.60	20.47	20.52	0.1023	0.0993	0.1005
20	64QAM	100	0	20.53	20.55	20.53	0.1007	0.1012	0.1007
20	256QAM	1	0	18.54	18.63	18.66	0.0637	0.0650	0.0655
20	256QAM	1	49	18.61	18.54	18.49	0.0647	0.0637	0.0630
20	256QAM	1	99	18.52	18.53	18.50	0.0634	0.0635	0.0631
20	256QAM	50	0	18.63	18.65	18.49	0.0650	0.0653	0.0630
20	256QAM	50	24	18.56	18.49	18.57	0.0640	0.0630	0.0641
20	256QAM	50	50	18.50	18.48	18.50	0.0631	0.0628	0.0631
20	256QAM	100	0	18.68	18.58	18.51	0.0658	0.0643	0.0632
Channel				37825	38000	38175	37825	38000	38175
Frequency (MHz)				2577.5	2595	2612.5	2577.5	2595	2612.5



15	QPSK	1	0	23.59	23.70	23.56	0.2037	0.2089	0.2023
15	QPSK	1	37	23.49	23.54	23.44	0.1991	0.2014	0.1968
15	QPSK	1	74	23.62	23.65	23.37	0.2051	0.2065	0.1936
15	QPSK	36	0	22.66	22.69	22.68	0.1644	0.1656	0.1652
15	QPSK	36	20	22.51	22.59	22.54	0.1589	0.1618	0.1600
15	QPSK	36	39	22.49	22.66	22.64	0.1581	0.1644	0.1637
15	QPSK	75	0	22.59	22.65	22.59	0.1618	0.1641	0.1618
15	16QAM	1	0	22.66	22.45	22.67	0.1644	0.1567	0.1648
15	16QAM	1	37	22.53	22.62	22.69	0.1596	0.1629	0.1656
15	16QAM	1	74	22.61	22.67	22.52	0.1626	0.1648	0.1592
15	16QAM	36	0	21.56	21.51	21.59	0.1276	0.1262	0.1285
15	16QAM	36	20	21.66	21.68	21.64	0.1306	0.1312	0.1300
15	16QAM	36	39	21.82	21.67	21.62	0.1355	0.1309	0.1294
15	16QAM	75	0	21.54	21.61	21.60	0.1271	0.1291	0.1288
15	64QAM	1	0	21.65	21.72	21.61	0.1303	0.1324	0.1291
15	64QAM	1	37	21.76	21.70	21.61	0.1337	0.1318	0.1291
15	64QAM	1	74	21.75	21.59	21.68	0.1334	0.1285	0.1312
15	64QAM	36	0	20.56	20.48	20.45	0.1014	0.0995	0.0989
15	64QAM	36	20	20.43	20.41	20.56	0.0984	0.0979	0.1014
15	64QAM	36	39	20.52	20.38	20.43	0.1005	0.0973	0.0984
15	64QAM	75	0	20.41	20.45	20.48	0.0979	0.0989	0.0995
15	256QAM	1	0	18.48	18.56	18.55	0.0628	0.0640	0.0638
15	256QAM	1	37	18.50	18.46	18.39	0.0631	0.0625	0.0615
15	256QAM	1	74	18.40	18.49	18.45	0.0617	0.0630	0.0624
15	256QAM	36	0	18.52	18.59	18.40	0.0634	0.0644	0.0617
15	256QAM	36	20	18.49	18.41	18.45	0.0630	0.0618	0.0624
15	256QAM	36	39	18.38	18.37	18.42	0.0614	0.0612	0.0619
15	256QAM	75	0	18.61	18.53	18.40	0.0647	0.0635	0.0617
Channel				37800	38000	38200	37800	38000	38200
Frequency (MHz)				2575	2595	2615	2575	2595	2615
10	QPSK	1	0	23.60	23.68	23.59	0.2042	0.2080	0.2037
10	QPSK	1	25	23.47	23.52	23.42	0.1982	0.2004	0.1959
10	QPSK	1	49	23.58	23.58	23.36	0.2032	0.2032	0.1932
10	QPSK	25	0	22.60	22.73	22.66	0.1622	0.1671	0.1644
10	QPSK	25	12	22.51	22.61	22.58	0.1589	0.1626	0.1614
10	QPSK	25	25	22.58	22.67	22.55	0.1614	0.1648	0.1603



10	QPSK	50	0	22.64	22.71	22.59	0.1637	0.1663	0.1618
10	16QAM	1	0	22.73	22.49	22.68	0.1671	0.1581	0.1652
10	16QAM	1	25	22.53	22.57	22.66	0.1596	0.1611	0.1644
10	16QAM	1	49	22.67	22.66	22.53	0.1648	0.1644	0.1596
10	16QAM	25	0	21.55	21.51	21.56	0.1274	0.1262	0.1276
10	16QAM	25	12	21.59	21.66	21.67	0.1285	0.1306	0.1309
10	16QAM	25	25	21.74	21.65	21.61	0.1330	0.1303	0.1291
10	16QAM	50	0	21.56	21.67	21.56	0.1276	0.1309	0.1276
10	64QAM	1	0	21.62	21.68	21.52	0.1294	0.1312	0.1265
10	64QAM	1	25	21.77	21.66	21.58	0.1340	0.1306	0.1282
10	64QAM	1	49	21.73	21.63	21.72	0.1327	0.1297	0.1324
10	64QAM	25	0	20.62	20.52	20.43	0.1028	0.1005	0.0984
10	64QAM	25	12	20.39	20.42	20.50	0.0975	0.0982	0.1000
10	64QAM	25	25	20.50	20.41	20.40	0.1000	0.0979	0.0977
10	64QAM	50	0	20.44	20.50	20.43	0.0986	0.1000	0.0984
10	256QAM	1	0	18.44	18.53	18.54	0.0622	0.0635	0.0637
10	256QAM	1	25	18.56	18.45	18.43	0.0640	0.0624	0.0621
10	256QAM	1	49	18.48	18.43	18.40	0.0628	0.0621	0.0617
10	256QAM	25	0	18.50	18.57	18.42	0.0631	0.0641	0.0619
10	256QAM	25	12	18.45	18.45	18.45	0.0624	0.0624	0.0624
10	256QAM	25	25	18.43	18.36	18.42	0.0621	0.0611	0.0619
10	256QAM	50	0	18.61	18.51	18.38	0.0647	0.0632	0.0614
Channel				37775	38000	38225	37775	38000	38225
Frequency (MHz)				2572.5	2595	2617.5	2572.5	2595	2617.5
5	QPSK	1	0	23.59	23.68	23.53	0.2037	0.2080	0.2009
5	QPSK	1	12	23.46	23.55	23.40	0.1977	0.2018	0.1950
5	QPSK	1	24	23.53	23.55	23.42	0.2009	0.2018	0.1959
5	QPSK	12	0	22.68	22.77	22.69	0.1652	0.1687	0.1656
5	QPSK	12	7	22.54	22.62	22.59	0.1600	0.1629	0.1618
5	QPSK	12	13	22.58	22.69	22.61	0.1614	0.1656	0.1626
5	QPSK	25	0	22.55	22.72	22.60	0.1603	0.1667	0.1622
5	16QAM	1	0	22.66	22.46	22.66	0.1644	0.1570	0.1644
5	16QAM	1	12	22.54	22.58	22.68	0.1600	0.1614	0.1652
5	16QAM	1	24	22.62	22.58	22.53	0.1629	0.1614	0.1596
5	16QAM	12	0	21.52	21.51	21.63	0.1265	0.1262	0.1297
5	16QAM	12	7	21.65	21.66	21.68	0.1303	0.1306	0.1312



5	16QAM	12	13	21.74	21.67	21.59	0.1330	0.1309	0.1285
5	16QAM	25	0	21.53	21.67	21.65	0.1268	0.1309	0.1303
5	64QAM	1	0	21.69	21.71	21.62	0.1315	0.1321	0.1294
5	64QAM	1	12	21.74	21.67	21.59	0.1330	0.1309	0.1285
5	64QAM	1	24	21.74	21.64	21.68	0.1330	0.1300	0.1312
5	64QAM	12	0	20.57	20.53	20.45	0.1016	0.1007	0.0989
5	64QAM	12	7	20.44	20.49	20.53	0.0986	0.0998	0.1007
5	64QAM	12	13	20.49	20.37	20.43	0.0998	0.0971	0.0984
5	64QAM	25	0	20.49	20.42	20.45	0.0998	0.0982	0.0989
5	256QAM	1	0	18.41	18.56	18.57	0.0618	0.0640	0.0641
5	256QAM	1	12	18.52	18.47	18.41	0.0634	0.0627	0.0618
5	256QAM	1	24	18.42	18.42	18.38	0.0619	0.0619	0.0614
5	256QAM	12	0	18.55	18.53	18.40	0.0638	0.0635	0.0617
5	256QAM	12	7	18.51	18.44	18.53	0.0632	0.0622	0.0635
5	256QAM	12	13	18.43	18.39	18.45	0.0621	0.0615	0.0624
5	256QAM	25	0	18.57	18.52	18.41	0.0641	0.0634	0.0618



LTE Band 41 <Ant.0>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP	EIRP	EIRP
Channel				39750	40620	41490	39750	40620	41490
Frequency (MHz)				2506	2593	2680	2506	2593	2680
20	QPSK	1	0	23.52	23.72	23.66	0.2004	0.2099	0.2070
20	QPSK	1	49	23.47	23.66	23.51	0.1982	0.2070	0.2000
20	QPSK	1	99	23.40	23.63	23.53	0.1950	0.2056	0.2009
20	QPSK	50	0	22.45	22.68	22.55	0.1567	0.1652	0.1603
20	QPSK	50	24	22.33	22.50	22.51	0.1524	0.1585	0.1589
20	QPSK	50	50	22.39	22.50	22.44	0.1545	0.1585	0.1563
20	QPSK	100	0	22.45	22.67	22.56	0.1567	0.1648	0.1607
20	16QAM	1	0	22.40	22.54	22.44	0.1549	0.1600	0.1563
20	16QAM	1	49	22.28	22.44	22.37	0.1507	0.1563	0.1538
20	16QAM	1	99	22.26	22.39	22.43	0.1500	0.1545	0.1560
20	16QAM	50	0	21.59	21.81	21.74	0.1285	0.1352	0.1330
20	16QAM	50	24	21.47	21.73	21.56	0.1250	0.1327	0.1276
20	16QAM	50	50	21.47	21.62	21.58	0.1250	0.1294	0.1282
20	16QAM	100	0	21.47	21.70	21.57	0.1250	0.1318	0.1279
20	64QAM	1	0	21.57	21.79	21.70	0.1279	0.1346	0.1318
20	64QAM	1	49	21.47	21.62	21.63	0.1250	0.1294	0.1297
20	64QAM	1	99	21.44	21.60	21.58	0.1242	0.1288	0.1282
20	64QAM	50	0	20.67	20.48	20.18	0.1040	0.0995	0.0929
20	64QAM	50	24	20.49	20.63	20.44	0.0998	0.1030	0.0986
20	64QAM	50	50	20.60	20.52	20.28	0.1023	0.1005	0.0951
20	64QAM	100	0	20.53	20.53	20.33	0.1007	0.1007	0.0962
20	256QAM	1	0	18.54	18.66	18.53	0.0637	0.0655	0.0635
20	256QAM	1	49	18.61	18.49	18.21	0.0647	0.0630	0.0590
20	256QAM	1	99	18.52	18.50	18.28	0.0634	0.0631	0.0600
20	256QAM	50	0	18.63	18.49	18.25	0.0650	0.0630	0.0596
20	256QAM	50	24	18.56	18.57	18.41	0.0640	0.0641	0.0618
20	256QAM	50	50	18.50	18.50	18.31	0.0631	0.0631	0.0604
20	256QAM	100	0	18.68	18.51	18.29	0.0658	0.0632	0.0601
Channel				39725	40620	41515	39725	40620	41515
Frequency (MHz)				2503.5	2593	2682.5	2503.5	2593	2682.5



15	QPSK	1	0	23.40	23.61	23.63	0.1950	0.2046	0.2056
15	QPSK	1	37	23.38	23.56	23.39	0.1941	0.2023	0.1945
15	QPSK	1	74	23.36	23.54	23.49	0.1932	0.2014	0.1991
15	QPSK	36	0	22.42	22.65	22.49	0.1556	0.1641	0.1581
15	QPSK	36	20	22.22	22.38	22.46	0.1486	0.1542	0.1570
15	QPSK	36	39	22.29	22.44	22.39	0.1510	0.1563	0.1545
15	QPSK	75	0	22.36	22.63	22.45	0.1535	0.1633	0.1567
15	16QAM	1	0	22.28	22.49	22.39	0.1507	0.1581	0.1545
15	16QAM	1	37	22.19	22.34	22.29	0.1476	0.1528	0.1510
15	16QAM	1	74	22.21	22.36	22.34	0.1483	0.1535	0.1528
15	16QAM	36	0	21.49	21.68	21.66	0.1256	0.1312	0.1306
15	16QAM	36	20	21.44	21.60	21.49	0.1242	0.1288	0.1256
15	16QAM	36	39	21.35	21.55	21.54	0.1216	0.1274	0.1271
15	16QAM	75	0	21.43	21.65	21.49	0.1239	0.1303	0.1256
15	64QAM	1	0	21.52	21.74	21.61	0.1265	0.1330	0.1291
15	64QAM	1	37	21.43	21.51	21.56	0.1239	0.1262	0.1276
15	64QAM	1	74	21.32	21.49	21.53	0.1208	0.1256	0.1268
15	64QAM	36	0	20.60	20.41	20.16	0.1023	0.0979	0.0925
15	64QAM	36	20	20.43	20.57	20.35	0.0984	0.1016	0.0966
15	64QAM	36	39	20.53	20.47	20.15	0.1007	0.0993	0.0923
15	64QAM	75	0	20.42	20.49	20.25	0.0982	0.0998	0.0944
15	256QAM	1	0	18.48	18.61	18.41	0.0628	0.0647	0.0618
15	256QAM	1	37	18.48	18.41	18.20	0.0628	0.0618	0.0589
15	256QAM	1	74	18.47	18.41	18.20	0.0627	0.0618	0.0589
15	256QAM	36	0	18.56	18.43	18.13	0.0640	0.0621	0.0579
15	256QAM	36	20	18.48	18.45	18.32	0.0628	0.0624	0.0605
15	256QAM	36	39	18.39	18.43	18.28	0.0615	0.0621	0.0600
15	256QAM	75	0	18.64	18.43	18.23	0.0652	0.0621	0.0593
Channel				39700	40620	41540	39700	40620	41540
Frequency (MHz)				2501	2593	2685	2501	2593	2685
10	QPSK	1	0	23.42	23.62	23.55	0.1959	0.2051	0.2018
10	QPSK	1	25	23.35	23.63	23.48	0.1928	0.2056	0.1986
10	QPSK	1	49	23.30	23.55	23.41	0.1905	0.2018	0.1954
10	QPSK	25	0	22.35	22.65	22.49	0.1531	0.1641	0.1581
10	QPSK	25	12	22.29	22.39	22.45	0.1510	0.1545	0.1567
10	QPSK	25	25	22.36	22.44	22.38	0.1535	0.1563	0.1542



10	QPSK	50	0	22.39	22.58	22.48	0.1545	0.1614	0.1578
10	16QAM	1	0	22.37	22.45	22.40	0.1538	0.1567	0.1549
10	16QAM	1	25	22.20	22.40	22.34	0.1479	0.1549	0.1528
10	16QAM	1	49	22.20	22.35	22.36	0.1479	0.1531	0.1535
10	16QAM	25	0	21.54	21.72	21.70	0.1271	0.1324	0.1318
10	16QAM	25	12	21.40	21.67	21.48	0.1230	0.1309	0.1253
10	16QAM	25	25	21.40	21.55	21.49	0.1230	0.1274	0.1256
10	16QAM	50	0	21.35	21.64	21.46	0.1216	0.1300	0.1247
10	64QAM	1	0	21.53	21.75	21.59	0.1268	0.1334	0.1285
10	64QAM	1	25	21.43	21.51	21.53	0.1239	0.1262	0.1268
10	64QAM	1	49	21.37	21.56	21.46	0.1222	0.1276	0.1247
10	64QAM	25	0	20.60	20.36	20.15	0.1023	0.0968	0.0923
10	64QAM	25	12	20.36	20.60	20.36	0.0968	0.1023	0.0968
10	64QAM	25	25	20.49	20.45	20.20	0.0998	0.0989	0.0933
10	64QAM	50	0	20.49	20.48	20.23	0.0998	0.0995	0.0940
10	256QAM	1	0	18.48	18.63	18.45	0.0628	0.0650	0.0624
10	256QAM	1	25	18.49	18.37	18.13	0.0630	0.0612	0.0579
10	256QAM	1	49	18.46	18.40	18.23	0.0625	0.0617	0.0593
10	256QAM	25	0	18.54	18.40	18.19	0.0637	0.0617	0.0587
10	256QAM	25	12	18.50	18.48	18.34	0.0631	0.0628	0.0608
10	256QAM	25	25	18.44	18.38	18.21	0.0622	0.0614	0.0590
10	256QAM	50	0	18.57	18.45	18.25	0.0641	0.0624	0.0596
Channel				39675	40620	41565	39675	40620	41565
Frequency (MHz)				2498.5	2593	2687.5	2498.5	2593	2687.5
5	QPSK	1	0	23.41	23.67	23.55	0.1954	0.2075	0.2018
5	QPSK	1	12	23.34	23.61	23.41	0.1923	0.2046	0.1954
5	QPSK	1	24	23.29	23.52	23.44	0.1901	0.2004	0.1968
5	QPSK	12	0	22.36	22.60	22.51	0.1535	0.1622	0.1589
5	QPSK	12	7	22.24	22.38	22.39	0.1493	0.1542	0.1545
5	QPSK	12	13	22.28	22.42	22.38	0.1507	0.1556	0.1542
5	QPSK	25	0	22.32	22.63	22.45	0.1521	0.1633	0.1567
5	16QAM	1	0	22.27	22.46	22.32	0.1503	0.1570	0.1521
5	16QAM	1	12	22.17	22.41	22.30	0.1469	0.1552	0.1514
5	16QAM	1	24	22.16	22.36	22.37	0.1466	0.1535	0.1538
5	16QAM	12	0	21.56	21.69	21.68	0.1276	0.1315	0.1312
5	16QAM	12	7	21.43	21.70	21.43	0.1239	0.1318	0.1239



5	16QAM	12	13	21.36	21.55	21.49	0.1219	0.1274	0.1256
5	16QAM	25	0	21.36	21.57	21.49	0.1219	0.1279	0.1256
5	64QAM	1	0	21.49	21.74	21.64	0.1256	0.1330	0.1300
5	64QAM	1	12	21.41	21.56	21.51	0.1233	0.1276	0.1262
5	64QAM	1	24	21.39	21.49	21.54	0.1227	0.1256	0.1271
5	64QAM	12	0	20.63	20.38	20.15	0.1030	0.0973	0.0923
5	64QAM	12	7	20.42	20.59	20.38	0.0982	0.1021	0.0973
5	64QAM	12	13	20.51	20.46	20.18	0.1002	0.0991	0.0929
5	64QAM	25	0	20.50	20.48	20.28	0.1000	0.0995	0.0951
5	256QAM	1	0	18.46	18.57	18.42	0.0625	0.0641	0.0619
5	256QAM	1	12	18.55	18.36	18.15	0.0638	0.0611	0.0582
5	256QAM	1	24	18.47	18.46	18.23	0.0627	0.0625	0.0593
5	256QAM	12	0	18.53	18.40	18.21	0.0635	0.0617	0.0590
5	256QAM	12	7	18.47	18.48	18.34	0.0627	0.0628	0.0608
5	256QAM	12	13	18.44	18.41	18.24	0.0622	0.0618	0.0594
5	256QAM	25	0	18.62	18.45	18.16	0.0649	0.0624	0.0583



LTE Band 12 <Ant.1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP	ERP	ERP
Channel				23060	23095	23130	23060	23095	23130
Frequency (MHz)				704	707.5	711	704	707.5	711
10	QPSK	1	0	24.24	24.33	24.25	0.0723	0.0738	0.0724
10	QPSK	1	25	24.05	24.18	24.13	0.0692	0.0713	0.0705
10	QPSK	1	49	24.26	24.15	24.21	0.0726	0.0708	0.0718
10	QPSK	25	0	23.36	23.41	23.36	0.0590	0.0597	0.0590
10	QPSK	25	12	23.12	23.16	23.25	0.0558	0.0564	0.0575
10	QPSK	25	25	23.30	23.06	23.26	0.0582	0.0551	0.0577
10	QPSK	50	0	23.26	23.32	23.29	0.0577	0.0585	0.0581
10	16QAM	1	0	23.33	23.20	23.13	0.0586	0.0569	0.0560
10	16QAM	1	25	23.13	23.20	23.25	0.0560	0.0569	0.0575
10	16QAM	1	49	23.18	23.30	23.17	0.0566	0.0582	0.0565
10	16QAM	25	0	22.42	22.11	22.31	0.0475	0.0443	0.0463
10	16QAM	25	12	22.32	22.09	22.12	0.0465	0.0441	0.0444
10	16QAM	25	25	22.24	22.16	22.37	0.0456	0.0448	0.0470
10	16QAM	50	0	22.30	22.04	22.18	0.0462	0.0436	0.0450
10	64QAM	1	0	22.28	22.23	22.33	0.0460	0.0455	0.0466
10	64QAM	1	25	22.16	22.16	22.22	0.0448	0.0448	0.0454
10	64QAM	1	49	22.15	22.23	22.36	0.0447	0.0455	0.0469
10	64QAM	25	0	21.29	21.29	21.45	0.0366	0.0366	0.0380
10	64QAM	25	12	21.45	21.31	21.30	0.0380	0.0368	0.0367
10	64QAM	25	25	21.29	21.17	21.24	0.0366	0.0356	0.0362
10	64QAM	50	0	21.42	21.38	21.34	0.0378	0.0374	0.0371
10	256QAM	1	0	19.29	19.00	19.09	0.0231	0.0216	0.0221
10	256QAM	1	25	19.17	19.12	18.96	0.0225	0.0222	0.0214
10	256QAM	1	49	18.96	19.11	19.16	0.0214	0.0222	0.0224
10	256QAM	25	0	19.11	18.96	19.24	0.0222	0.0214	0.0229
10	256QAM	25	12	19.18	19.09	19.30	0.0225	0.0221	0.0232
10	256QAM	25	25	19.24	19.31	19.10	0.0229	0.0232	0.0221
10	256QAM	50	0	19.20	19.11	19.34	0.0226	0.0222	0.0234
Channel				23035	23095	23155	23035	23095	23155
Frequency (MHz)				701.5	707.5	713.5	701.5	707.5	713.5



5	QPSK	1	0	24.12	24.22	24.13	0.0703	0.0719	0.0705
5	QPSK	1	12	23.92	24.08	24.10	0.0671	0.0697	0.0700
5	QPSK	1	24	24.21	24.05	24.11	0.0718	0.0692	0.0701
5	QPSK	12	0	23.28	23.37	23.24	0.0579	0.0592	0.0574
5	QPSK	12	7	23.06	23.10	23.12	0.0551	0.0556	0.0558
5	QPSK	12	13	23.23	22.96	23.19	0.0573	0.0538	0.0568
5	QPSK	25	0	23.20	23.20	23.25	0.0569	0.0569	0.0575
5	16QAM	1	0	23.25	23.09	23.10	0.0575	0.0555	0.0556
5	16QAM	1	12	23.01	23.09	23.17	0.0545	0.0555	0.0565
5	16QAM	1	24	23.08	23.23	23.06	0.0553	0.0573	0.0551
5	16QAM	12	0	22.36	22.04	22.22	0.0469	0.0436	0.0454
5	16QAM	12	7	22.29	21.97	22.04	0.0461	0.0429	0.0436
5	16QAM	12	13	22.19	22.11	22.30	0.0451	0.0443	0.0462
5	16QAM	25	0	22.22	21.98	22.10	0.0454	0.0430	0.0442
5	64QAM	1	0	22.21	22.11	22.25	0.0453	0.0443	0.0457
5	64QAM	1	12	22.04	22.04	22.13	0.0436	0.0436	0.0445
5	64QAM	1	24	22.12	22.19	22.33	0.0444	0.0451	0.0466
5	64QAM	12	0	21.22	21.23	21.39	0.0361	0.0361	0.0375
5	64QAM	12	7	21.33	21.21	21.26	0.0370	0.0360	0.0364
5	64QAM	12	13	21.18	21.10	21.19	0.0357	0.0351	0.0358
5	64QAM	25	0	21.36	21.29	21.29	0.0372	0.0366	0.0366
5	256QAM	1	0	19.18	18.89	19.02	0.0225	0.0211	0.0217
5	256QAM	1	12	19.12	19.03	18.83	0.0222	0.0218	0.0208
5	256QAM	1	24	18.84	19.05	19.10	0.0208	0.0219	0.0221
5	256QAM	12	0	19.00	18.88	19.17	0.0216	0.0210	0.0225
5	256QAM	12	7	19.05	19.03	19.18	0.0219	0.0218	0.0225
5	256QAM	12	13	19.20	19.19	19.04	0.0226	0.0226	0.0218
5	256QAM	25	0	19.12	19.05	19.25	0.0222	0.0219	0.0229
Channel				23025	23095	23165	23025	23095	23165
Frequency (MHz)				700.5	707.5	714.5	700.5	707.5	714.5
3	QPSK	1	0	24.12	24.24	24.19	0.0703	0.0723	0.0714
3	QPSK	1	8	23.98	24.06	24.01	0.0681	0.0693	0.0685
3	QPSK	1	14	24.17	24.08	24.10	0.0711	0.0697	0.0700
3	QPSK	8	0	23.25	23.38	23.33	0.0575	0.0593	0.0586
3	QPSK	8	4	22.99	23.09	23.14	0.0542	0.0555	0.0561
3	QPSK	8	7	23.25	22.97	23.21	0.0575	0.0540	0.0570



3	QPSK	15	0	23.16	23.20	23.25	0.0564	0.0569	0.0575
3	16QAM	1	0	23.23	23.14	23.03	0.0573	0.0561	0.0547
3	16QAM	1	8	23.02	23.15	23.15	0.0546	0.0562	0.0562
3	16QAM	1	14	23.11	23.21	23.14	0.0557	0.0570	0.0561
3	16QAM	8	0	22.37	21.99	22.25	0.0470	0.0431	0.0457
3	16QAM	8	4	22.21	22.04	21.99	0.0453	0.0436	0.0431
3	16QAM	8	7	22.14	22.07	22.26	0.0446	0.0439	0.0458
3	16QAM	15	0	22.19	22.00	22.06	0.0451	0.0432	0.0438
3	64QAM	1	0	22.20	22.13	22.24	0.0452	0.0445	0.0456
3	64QAM	1	8	22.09	22.07	22.13	0.0441	0.0439	0.0445
3	64QAM	1	14	22.02	22.19	22.30	0.0434	0.0451	0.0462
3	64QAM	8	0	21.18	21.22	21.36	0.0357	0.0361	0.0372
3	64QAM	8	4	21.36	21.24	21.24	0.0372	0.0362	0.0362
3	64QAM	8	7	21.22	21.07	21.12	0.0361	0.0348	0.0352
3	64QAM	15	0	21.37	21.31	21.30	0.0373	0.0368	0.0367
3	256QAM	1	0	19.25	18.95	19.02	0.0229	0.0214	0.0217
3	256QAM	1	8	19.13	18.99	18.86	0.0223	0.0216	0.0209
3	256QAM	1	14	18.92	19.02	19.07	0.0212	0.0217	0.0220
3	256QAM	8	0	19.00	18.86	19.19	0.0216	0.0209	0.0226
3	256QAM	8	4	19.10	19.05	19.19	0.0221	0.0219	0.0226
3	256QAM	8	7	19.19	19.22	18.97	0.0226	0.0228	0.0215
3	256QAM	15	0	19.14	18.99	19.28	0.0223	0.0216	0.0231
Channel				23017	23095	23173	23017	23095	23173
Frequency (MHz)				699.7	707.5	715.3	699.7	707.5	715.3
1.4	QPSK	1	0	24.15	24.25	24.22	0.0708	0.0724	0.0719
1.4	QPSK	1	3	23.93	24.08	24.07	0.0673	0.0697	0.0695
1.4	QPSK	1	5	24.21	24.07	24.14	0.0718	0.0695	0.0706
1.4	QPSK	3	0	23.31	23.37	23.27	0.0583	0.0592	0.0578
1.4	QPSK	3	1	23.05	23.13	23.21	0.0550	0.0560	0.0570
1.4	QPSK	3	3	23.21	22.98	23.17	0.0570	0.0541	0.0565
1.4	QPSK	6	0	23.23	23.23	23.18	0.0573	0.0573	0.0566
1.4	16QAM	1	0	23.24	23.11	23.01	0.0574	0.0557	0.0545
1.4	16QAM	1	3	23.02	23.14	23.16	0.0546	0.0561	0.0564
1.4	16QAM	1	5	23.14	23.22	23.08	0.0561	0.0571	0.0553
1.4	16QAM	3	0	22.30	22.00	22.20	0.0462	0.0432	0.0452
1.4	16QAM	3	1	22.20	21.99	22.02	0.0452	0.0431	0.0434



1.4	16QAM	3	3	22.17	22.08	22.28	0.0449	0.0440	0.0460
1.4	16QAM	6	0	22.27	21.92	22.08	0.0459	0.0424	0.0440
1.4	64QAM	1	0	22.18	22.11	22.27	0.0450	0.0443	0.0459
1.4	64QAM	1	3	22.12	22.13	22.12	0.0444	0.0445	0.0444
1.4	64QAM	1	5	22.07	22.18	22.30	0.0439	0.0450	0.0462
1.4	64QAM	3	0	21.21	21.21	21.40	0.0360	0.0360	0.0376
1.4	64QAM	3	1	21.37	21.27	21.18	0.0373	0.0365	0.0357
1.4	64QAM	3	3	21.25	21.12	21.18	0.0363	0.0352	0.0357
1.4	64QAM	6	0	21.33	21.27	21.29	0.0370	0.0365	0.0366
1.4	256QAM	1	0	19.16	18.92	18.99	0.0224	0.0212	0.0216
1.4	256QAM	1	3	19.07	19.05	18.83	0.0220	0.0219	0.0208
1.4	256QAM	1	5	18.92	19.01	19.08	0.0212	0.0217	0.0220
1.4	256QAM	3	0	19.01	18.90	19.15	0.0217	0.0211	0.0224
1.4	256QAM	3	1	19.15	18.97	19.20	0.0224	0.0215	0.0226
1.4	256QAM	3	3	19.15	19.25	19.05	0.0224	0.0229	0.0219
1.4	256QAM	6	0	19.09	19.07	19.21	0.0221	0.0220	0.0227



LTE Band 13 <Ant.1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP		
Channel				23230			23230		
Frequency (MHz)				782			782		
10	QPSK	1	0	-	24.06	-	-	0.0693	-
10	QPSK	1	25	-	23.92	-	-	0.0671	-
10	QPSK	1	49	-	23.87	-	-	0.0664	-
10	QPSK	25	0	-	23.11	-	-	0.0557	-
10	QPSK	25	12	-	22.91	-	-	0.0532	-
10	QPSK	25	25	-	22.88	-	-	0.0528	-
10	QPSK	50	0	-	23.11	-	-	0.0557	-
10	16QAM	1	0	-	22.97	-	-	0.0540	-
10	16QAM	1	25	-	22.92	-	-	0.0533	-
10	16QAM	1	49	-	23.05	-	-	0.0550	-
10	16QAM	25	0	-	21.89	-	-	0.0421	-
10	16QAM	25	12	-	21.83	-	-	0.0415	-
10	16QAM	25	25	-	21.90	-	-	0.0422	-
10	16QAM	50	0	-	21.76	-	-	0.0408	-
10	64QAM	1	0	-	21.94	-	-	0.0426	-
10	64QAM	1	25	-	21.81	-	-	0.0413	-
10	64QAM	1	49	-	21.96	-	-	0.0428	-
10	64QAM	25	0	-	21.04	-	-	0.0346	-
10	64QAM	25	12	-	21.10	-	-	0.0351	-
10	64QAM	25	25	-	20.92	-	-	0.0337	-
10	64QAM	50	0	-	21.04	-	-	0.0346	-
10	256QAM	1	0	-	18.76	-	-	0.0205	-
10	256QAM	1	25	-	18.81	-	-	0.0207	-
10	256QAM	1	49	-	18.85	-	-	0.0209	-
10	256QAM	25	0	-	18.68	-	-	0.0201	-
10	256QAM	25	12	-	18.88	-	-	0.0210	-
10	256QAM	25	25	-	18.94	-	-	0.0213	-
10	256QAM	50	0	-	18.85	-	-	0.0209	-
Channel				23205	23230	23255	23205	23230	23255
Frequency (MHz)				779.5	782	784.5	779.5	782	784.5



5	QPSK	1	0	23.97	24.02	23.94	0.0679	0.0687	0.0675
5	QPSK	1	12	23.82	23.84	23.84	0.0656	0.0659	0.0659
5	QPSK	1	24	23.78	23.81	23.75	0.0650	0.0655	0.0646
5	QPSK	12	0	23.07	23.00	23.07	0.0552	0.0543	0.0552
5	QPSK	12	7	22.80	22.88	22.84	0.0519	0.0528	0.0524
5	QPSK	12	13	22.81	22.77	22.78	0.0520	0.0515	0.0516
5	QPSK	25	0	23.02	22.99	23.03	0.0546	0.0542	0.0547
5	16QAM	1	0	22.88	22.92	22.86	0.0528	0.0533	0.0526
5	16QAM	1	12	22.85	22.88	22.86	0.0525	0.0528	0.0526
5	16QAM	1	24	22.94	22.92	22.97	0.0536	0.0533	0.0540
5	16QAM	12	0	21.82	21.83	21.85	0.0414	0.0415	0.0417
5	16QAM	12	7	21.70	21.78	21.71	0.0403	0.0410	0.0404
5	16QAM	12	13	21.81	21.82	21.85	0.0413	0.0414	0.0417
5	16QAM	25	0	21.67	21.70	21.69	0.0400	0.0403	0.0402
5	64QAM	1	0	21.87	21.85	21.89	0.0419	0.0417	0.0421
5	64QAM	1	12	21.69	21.76	21.74	0.0402	0.0408	0.0406
5	64QAM	1	24	21.83	21.87	21.91	0.0415	0.0419	0.0423
5	64QAM	12	0	21.01	20.99	20.96	0.0344	0.0342	0.0340
5	64QAM	12	7	21.02	21.04	21.03	0.0344	0.0346	0.0345
5	64QAM	12	13	20.80	20.86	20.81	0.0327	0.0332	0.0328
5	64QAM	25	0	20.92	21.00	20.99	0.0337	0.0343	0.0342
5	256QAM	1	0	18.64	18.65	18.64	0.0199	0.0200	0.0199
5	256QAM	1	12	18.74	18.70	18.74	0.0204	0.0202	0.0204
5	256QAM	1	24	18.77	18.73	18.81	0.0205	0.0203	0.0207
5	256QAM	12	0	18.64	18.55	18.56	0.0199	0.0195	0.0195
5	256QAM	12	7	18.81	18.85	18.79	0.0207	0.0209	0.0206
5	256QAM	12	13	18.85	18.90	18.85	0.0209	0.0211	0.0209
5	256QAM	25	0	18.76	18.77	18.73	0.0205	0.0205	0.0203



LTE Band 17 <Ant.1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP	ERP	ERP
Channel				23780	23790	23800	23780	23790	23800
Frequency (MHz)				709	710	711	709	710	711
10	QPSK	1	0	24.14	24.25	24.21	0.0706	0.0724	0.0718
10	QPSK	1	25	23.94	24.09	23.96	0.0675	0.0698	0.0678
10	QPSK	1	49	23.93	24.00	23.90	0.0673	0.0684	0.0668
10	QPSK	25	0	23.23	23.33	23.24	0.0573	0.0586	0.0574
10	QPSK	25	12	22.92	23.02	22.89	0.0533	0.0546	0.0530
10	QPSK	25	25	22.91	23.03	22.95	0.0532	0.0547	0.0537
10	QPSK	50	0	23.12	23.21	23.11	0.0558	0.0570	0.0557
10	16QAM	1	0	23.00	23.11	23.00	0.0543	0.0557	0.0543
10	16QAM	1	25	22.97	23.04	22.94	0.0540	0.0548	0.0536
10	16QAM	1	49	23.10	23.24	23.10	0.0556	0.0574	0.0556
10	16QAM	25	0	21.95	22.01	21.94	0.0427	0.0433	0.0426
10	16QAM	25	12	22.03	22.08	21.97	0.0435	0.0440	0.0429
10	16QAM	25	25	22.02	22.17	22.05	0.0434	0.0449	0.0437
10	16QAM	50	0	21.84	21.94	21.83	0.0416	0.0426	0.0415
10	64QAM	1	0	22.01	22.08	22.04	0.0433	0.0440	0.0436
10	64QAM	1	25	21.89	21.97	21.86	0.0421	0.0429	0.0418
10	64QAM	1	49	22.04	22.11	21.96	0.0436	0.0443	0.0428
10	64QAM	25	0	21.10	21.23	21.09	0.0351	0.0361	0.0350
10	64QAM	25	12	21.26	21.32	21.25	0.0364	0.0369	0.0363
10	64QAM	25	25	20.97	21.05	20.94	0.0340	0.0347	0.0338
10	64QAM	50	0	21.15	21.30	21.15	0.0355	0.0367	0.0355
10	256QAM	1	0	18.72	18.85	18.79	0.0203	0.0209	0.0206
10	256QAM	1	25	18.98	19.04	18.99	0.0215	0.0218	0.0216
10	256QAM	1	49	18.98	19.04	18.97	0.0215	0.0218	0.0215
10	256QAM	25	0	18.83	18.87	18.78	0.0208	0.0210	0.0206
10	256QAM	25	12	19.03	19.08	19.02	0.0218	0.0220	0.0217
10	256QAM	25	25	19.08	19.23	19.09	0.0220	0.0228	0.0221
10	256QAM	50	0	18.86	18.98	18.87	0.0209	0.0215	0.0210
Channel				23755	23790	23825	23755	23790	23825
Frequency (MHz)				706.5	710	713.5	706.5	710	713.5



5	QPSK	1	0	24.08	24.17	24.11	0.0697	0.0711	0.0701
5	QPSK	1	12	23.83	23.97	23.92	0.0658	0.0679	0.0671
5	QPSK	1	24	23.82	23.94	23.86	0.0656	0.0675	0.0662
5	QPSK	12	0	23.14	23.26	23.19	0.0561	0.0577	0.0568
5	QPSK	12	7	22.85	22.96	22.77	0.0525	0.0538	0.0515
5	QPSK	12	13	22.83	22.99	22.90	0.0522	0.0542	0.0531
5	QPSK	25	0	23.04	23.10	23.05	0.0548	0.0556	0.0550
5	16QAM	1	0	22.94	22.99	22.94	0.0536	0.0542	0.0536
5	16QAM	1	12	22.94	23.00	22.87	0.0536	0.0543	0.0527
5	16QAM	1	24	23.00	23.11	23.01	0.0543	0.0557	0.0545
5	16QAM	12	0	21.82	21.90	21.87	0.0414	0.0422	0.0419
5	16QAM	12	7	21.94	21.99	21.92	0.0426	0.0431	0.0424
5	16QAM	12	13	21.98	22.09	21.96	0.0430	0.0441	0.0428
5	16QAM	25	0	21.77	21.89	21.75	0.0409	0.0421	0.0407
5	64QAM	1	0	21.91	21.99	21.95	0.0423	0.0431	0.0427
5	64QAM	1	12	21.83	21.93	21.77	0.0415	0.0425	0.0409
5	64QAM	1	24	21.96	22.01	21.87	0.0428	0.0433	0.0419
5	64QAM	12	0	21.01	21.12	21.02	0.0344	0.0352	0.0344
5	64QAM	12	7	21.14	21.27	21.19	0.0354	0.0365	0.0358
5	64QAM	12	13	20.93	20.95	20.91	0.0337	0.0339	0.0336
5	64QAM	25	0	21.11	21.27	21.07	0.0352	0.0365	0.0348
5	256QAM	1	0	18.60	18.73	18.73	0.0197	0.0203	0.0203
5	256QAM	1	12	18.90	19.01	18.93	0.0211	0.0217	0.0213
5	256QAM	1	24	18.90	18.98	18.92	0.0211	0.0215	0.0212
5	256QAM	12	0	18.72	18.77	18.73	0.0203	0.0205	0.0203
5	256QAM	12	7	18.98	18.98	18.94	0.0215	0.0215	0.0213
5	256QAM	12	13	18.97	19.15	18.98	0.0215	0.0224	0.0215
5	256QAM	25	0	18.80	18.86	18.83	0.0207	0.0209	0.0208



LTE Band 71 <Ant.1>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP	ERP	ERP
Channel				133222	133322	133372	133222	133322	133372
Frequency (MHz)				673	683	688	673	683	688
20	QPSK	1	0	23.35	23.58	23.38	0.0468	0.0493	0.0471
20	QPSK	1	49	23.09	23.25	23.22	0.0441	0.0457	0.0454
20	QPSK	1	99	23.39	23.36	23.42	0.0472	0.0469	0.0475
20	QPSK	50	0	22.40	22.46	22.32	0.0376	0.0381	0.0369
20	QPSK	50	24	22.19	22.22	22.43	0.0358	0.0361	0.0378
20	QPSK	50	50	22.24	22.14	22.31	0.0362	0.0354	0.0368
20	QPSK	100	0	21.99	22.30	22.28	0.0342	0.0367	0.0366
20	16QAM	1	0	22.08	21.85	22.00	0.0349	0.0331	0.0343
20	16QAM	1	49	22.01	22.26	22.33	0.0344	0.0364	0.0370
20	16QAM	1	99	22.15	22.18	22.23	0.0355	0.0357	0.0361
20	16QAM	50	0	21.41	21.22	21.20	0.0299	0.0286	0.0285
20	16QAM	50	24	21.26	21.15	21.05	0.0289	0.0282	0.0275
20	16QAM	50	50	21.25	21.03	21.53	0.0288	0.0274	0.0308
20	16QAM	100	0	21.27	20.91	21.14	0.0290	0.0267	0.0281
20	64QAM	1	0	21.36	21.10	21.04	0.0296	0.0279	0.0275
20	64QAM	1	49	21.04	21.27	21.18	0.0275	0.0290	0.0284
20	64QAM	1	99	21.24	21.23	21.11	0.0288	0.0287	0.0279
20	64QAM	50	0	20.26	20.19	20.24	0.0230	0.0226	0.0229
20	64QAM	50	24	20.17	20.05	20.27	0.0225	0.0219	0.0230
20	64QAM	50	50	20.16	20.02	20.04	0.0224	0.0217	0.0218
20	64QAM	100	0	20.35	20.02	20.23	0.0234	0.0217	0.0228
20	256QAM	1	0	18.08	18.01	18.10	0.0139	0.0137	0.0140
20	256QAM	1	49	18.03	17.96	17.80	0.0137	0.0135	0.0130
20	256QAM	1	99	17.71	18.18	18.09	0.0128	0.0142	0.0139
20	256QAM	50	0	18.04	18.17	18.00	0.0138	0.0142	0.0136
20	256QAM	50	24	18.13	17.93	17.91	0.0141	0.0134	0.0134
20	256QAM	50	50	18.40	18.24	18.00	0.0150	0.0144	0.0136
20	256QAM	100	0	17.87	18.14	18.26	0.0132	0.0141	0.0145
Channel				133197	133297	133397	133197	133297	133397
Frequency (MHz)				670.5	680.5	690.5	670.5	680.5	690.5



15	QPSK	1	0	23.31	23.51	23.34	0.0463	0.0485	0.0467
15	QPSK	1	37	23.04	23.16	23.15	0.0436	0.0448	0.0447
15	QPSK	1	74	23.31	23.30	23.37	0.0463	0.0462	0.0470
15	QPSK	36	0	22.28	22.43	22.28	0.0366	0.0378	0.0366
15	QPSK	36	20	22.14	22.17	22.36	0.0354	0.0356	0.0372
15	QPSK	36	39	22.16	22.06	22.28	0.0356	0.0348	0.0366
15	QPSK	75	0	21.95	22.26	22.21	0.0339	0.0364	0.0360
15	16QAM	1	0	21.97	21.79	21.94	0.0340	0.0327	0.0338
15	16QAM	1	37	21.89	22.14	22.21	0.0334	0.0354	0.0360
15	16QAM	1	74	22.06	22.10	22.15	0.0348	0.0351	0.0355
15	16QAM	36	0	21.30	21.10	21.15	0.0292	0.0279	0.0282
15	16QAM	36	20	21.16	21.02	20.96	0.0282	0.0274	0.0270
15	16QAM	36	39	21.16	20.96	21.40	0.0282	0.0270	0.0299
15	16QAM	75	0	21.24	20.84	21.08	0.0288	0.0262	0.0277
15	64QAM	1	0	21.27	21.06	20.92	0.0290	0.0276	0.0267
15	64QAM	1	37	20.94	21.21	21.13	0.0269	0.0286	0.0281
15	64QAM	1	74	21.14	21.20	21.00	0.0281	0.0285	0.0272
15	64QAM	36	0	20.22	20.09	20.13	0.0228	0.0221	0.0223
15	64QAM	36	20	20.14	19.98	20.23	0.0223	0.0215	0.0228
15	64QAM	36	39	20.09	19.90	19.93	0.0221	0.0211	0.0213
15	64QAM	75	0	20.23	19.96	20.15	0.0228	0.0214	0.0224
15	256QAM	1	0	18.03	17.94	17.97	0.0137	0.0135	0.0136
15	256QAM	1	37	17.95	17.89	17.71	0.0135	0.0133	0.0128
15	256QAM	1	74	17.65	18.07	17.99	0.0126	0.0139	0.0136
15	256QAM	36	0	17.93	18.05	17.92	0.0134	0.0138	0.0134
15	256QAM	36	20	18.02	17.86	17.85	0.0137	0.0132	0.0132
15	256QAM	36	39	18.33	18.16	17.95	0.0147	0.0142	0.0135
15	256QAM	75	0	17.81	18.07	18.20	0.0131	0.0139	0.0143
Channel				133172	133272	133422	133172	133272	133422
Frequency (MHz)				668	678	693	668	678	693
10	QPSK	1	0	23.28	23.54	23.32	0.0460	0.0489	0.0465
10	QPSK	1	25	23.05	23.15	23.14	0.0437	0.0447	0.0446
10	QPSK	1	49	23.36	23.29	23.33	0.0469	0.0461	0.0466
10	QPSK	25	0	22.35	22.40	22.24	0.0372	0.0376	0.0362
10	QPSK	25	12	22.10	22.12	22.39	0.0351	0.0352	0.0375
10	QPSK	25	25	22.17	22.02	22.19	0.0356	0.0344	0.0358



10	QPSK	50	0	21.89	22.21	22.20	0.0334	0.0360	0.0359
10	16QAM	1	0	21.98	21.75	21.93	0.0341	0.0324	0.0337
10	16QAM	1	25	21.95	22.16	22.23	0.0339	0.0356	0.0361
10	16QAM	1	49	22.09	22.09	22.12	0.0350	0.0350	0.0352
10	16QAM	25	0	21.33	21.15	21.15	0.0294	0.0282	0.0282
10	16QAM	25	12	21.22	21.03	20.99	0.0286	0.0274	0.0272
10	16QAM	25	25	21.16	20.99	21.44	0.0282	0.0272	0.0301
10	16QAM	50	0	21.22	20.86	21.02	0.0286	0.0264	0.0274
10	64QAM	1	0	21.30	20.99	20.91	0.0292	0.0272	0.0267
10	64QAM	1	25	21.01	21.16	21.08	0.0273	0.0282	0.0277
10	64QAM	1	49	21.18	21.14	21.03	0.0284	0.0281	0.0274
10	64QAM	25	0	20.22	20.08	20.14	0.0228	0.0220	0.0223
10	64QAM	25	12	20.10	19.93	20.16	0.0221	0.0213	0.0224
10	64QAM	25	25	20.10	19.94	19.93	0.0221	0.0213	0.0213
10	64QAM	50	0	20.26	19.95	20.18	0.0230	0.0214	0.0225
10	256QAM	1	0	17.99	17.97	17.99	0.0136	0.0136	0.0136
10	256QAM	1	25	17.95	17.90	17.70	0.0135	0.0133	0.0127
10	256QAM	1	49	17.66	18.14	18.04	0.0126	0.0141	0.0138
10	256QAM	25	0	17.96	18.13	17.89	0.0135	0.0141	0.0133
10	256QAM	25	12	18.00	17.94	17.85	0.0136	0.0135	0.0132
10	256QAM	25	25	18.31	18.19	17.95	0.0147	0.0143	0.0135
10	256QAM	50	0	17.79	18.05	18.13	0.0130	0.0138	0.0141
Channel				133147	133247	133447	133147	133247	133447
Frequency (MHz)				665.5	675.5	695.5	665.5	675.5	695.5
5	QPSK	1	0	23.32	23.53	23.29	0.0465	0.0488	0.0461
5	QPSK	1	12	23.06	23.15	23.15	0.0438	0.0447	0.0447
5	QPSK	1	24	23.33	23.24	23.35	0.0466	0.0456	0.0468
5	QPSK	12	0	22.31	22.36	22.28	0.0368	0.0372	0.0366
5	QPSK	12	7	22.10	22.19	22.33	0.0351	0.0358	0.0370
5	QPSK	12	13	22.19	22.04	22.27	0.0358	0.0346	0.0365
5	QPSK	25	0	21.87	22.21	22.21	0.0333	0.0360	0.0360
5	16QAM	1	0	22.05	22.01	21.94	0.0347	0.0344	0.0338
5	16QAM	1	12	21.98	22.14	22.25	0.0341	0.0354	0.0363
5	16QAM	1	24	22.09	22.08	22.12	0.0350	0.0349	0.0352
5	16QAM	12	0	21.28	21.09	21.09	0.0290	0.0278	0.0278
5	16QAM	12	7	21.14	21.03	20.98	0.0281	0.0274	0.0271



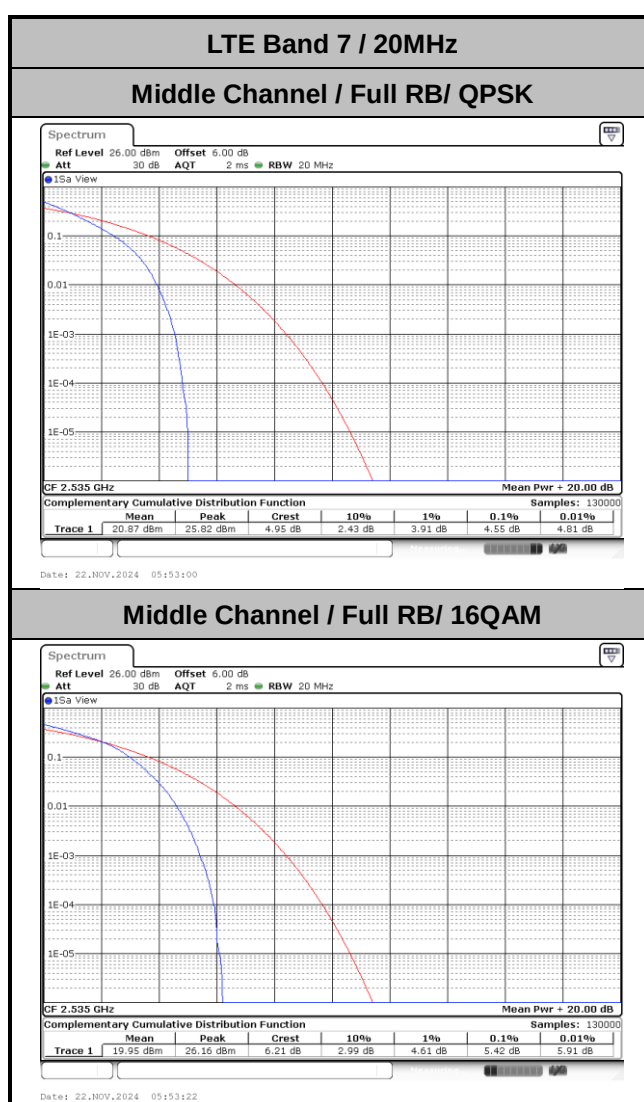
5	16QAM	12	13	21.14	21.00	21.43	0.0281	0.0272	0.0301
5	16QAM	25	0	21.14	20.78	21.06	0.0281	0.0259	0.0276
5	64QAM	1	0	21.27	21.05	20.98	0.0290	0.0275	0.0271
5	64QAM	1	12	20.98	21.21	21.14	0.0271	0.0286	0.0281
5	64QAM	1	24	21.19	21.14	21.03	0.0284	0.0281	0.0274
5	64QAM	12	0	20.17	20.13	20.17	0.0225	0.0223	0.0225
5	64QAM	12	7	20.13	19.93	20.17	0.0223	0.0213	0.0225
5	64QAM	12	13	20.13	19.93	19.93	0.0223	0.0213	0.0213
5	64QAM	25	0	20.22	19.90	20.16	0.0228	0.0211	0.0224
5	256QAM	1	0	18.04	17.89	18.03	0.0138	0.0133	0.0137
5	256QAM	1	12	17.98	17.89	17.72	0.0136	0.0133	0.0128
5	256QAM	1	24	17.63	18.13	18.01	0.0125	0.0141	0.0137
5	256QAM	12	0	17.95	18.05	17.89	0.0135	0.0138	0.0133
5	256QAM	12	7	18.02	17.84	17.87	0.0137	0.0132	0.0132
5	256QAM	12	13	18.31	18.17	17.89	0.0147	0.0142	0.0133
5	256QAM	25	0	17.78	18.05	18.18	0.0130	0.0138	0.0142

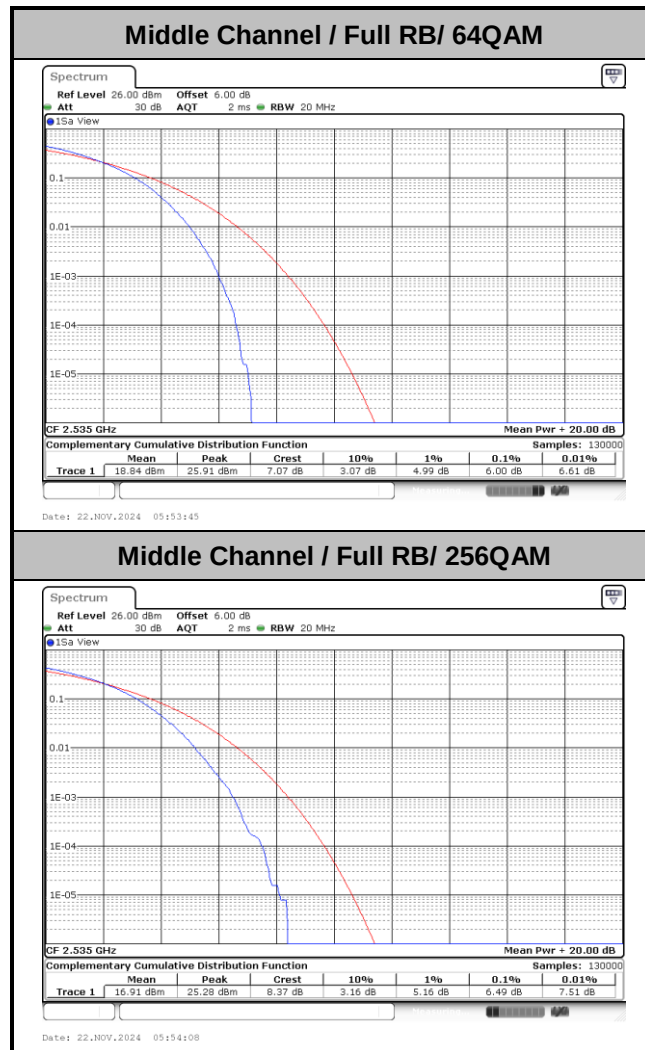


LTE Band 7

Peak-to-Average Ratio

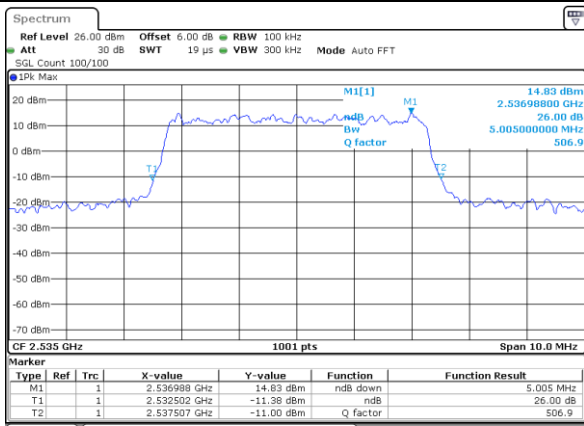
Mode	LTE Band 7 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.55	5.42	6.49	6.00	PASS



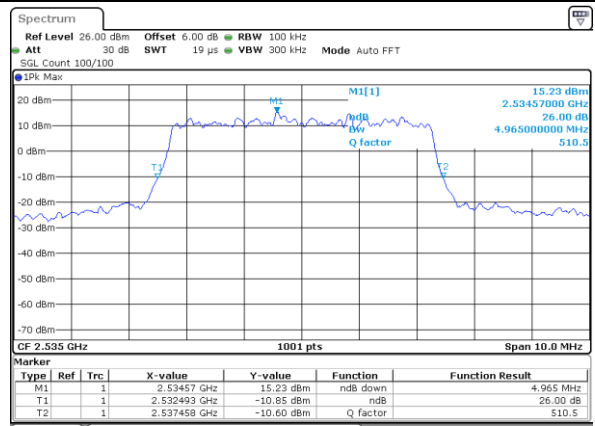


**26dB Bandwidth**

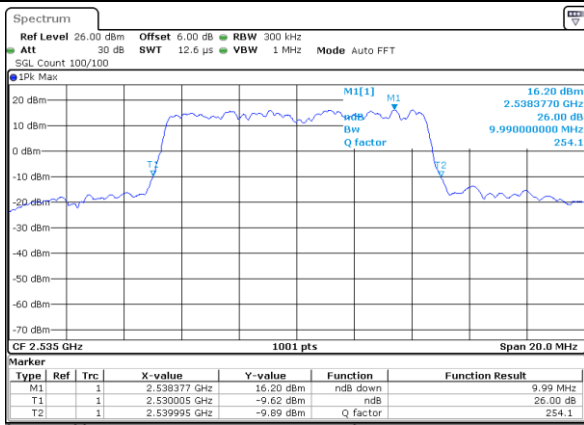
Mode	LTE Band 7 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	5.01	4.97	9.99	10.13	14.57	14.60	19.86	19.58

LTE Band 7**Middle Channel / 5MHz / QPSK**

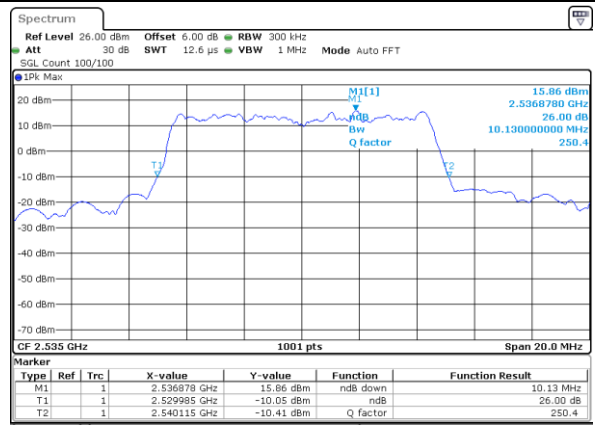
Date: 22.NOV.2024 06:03:24

Middle Channel / 5MHz / 16QAM

Date: 22.NOV.2024 06:03:46

LTE Band 7**Middle Channel / 10MHz / QPSK**

Date: 22.NOV.2024 06:02:21

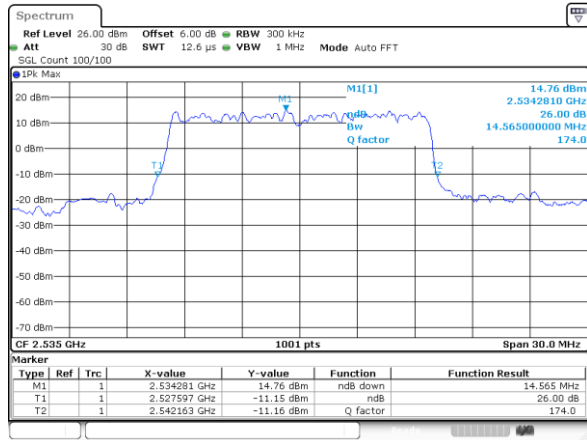
Middle Channel / 10MHz / 16QAM

Date: 22.NOV.2024 06:01:59



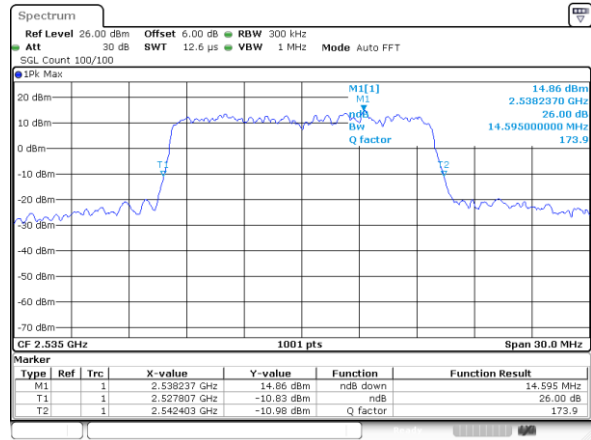
LTE Band 7

Middle Channel / 15MHz / QPSK



Date: 22.NOV.2024 04:28:52

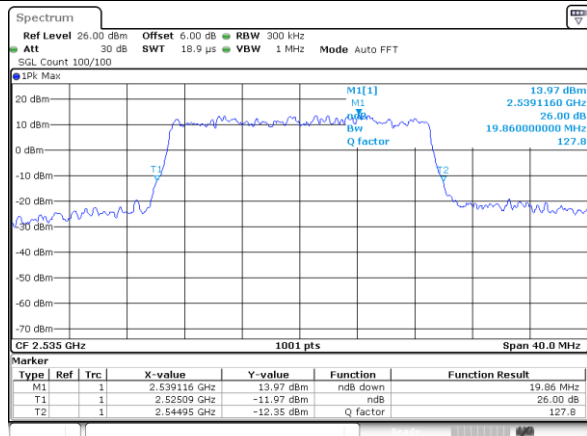
Middle Channel / 15MHz / 16QAM



Date: 22.NOV.2024 04:29:55

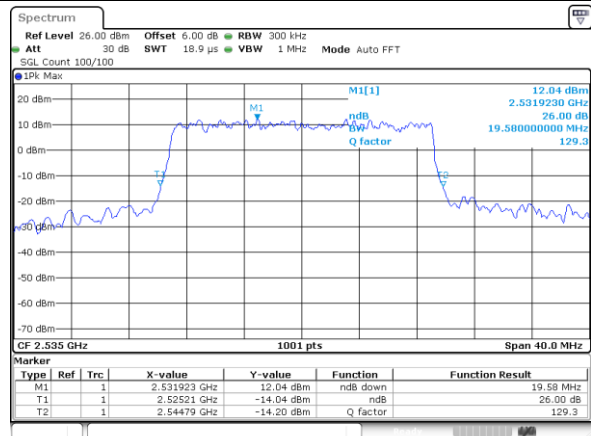
LTE Band 7

Middle Channel / 20MHz / QPSK



Date: 22.NOV.2024 05:51:33

Middle Channel / 20MHz / 16QAM

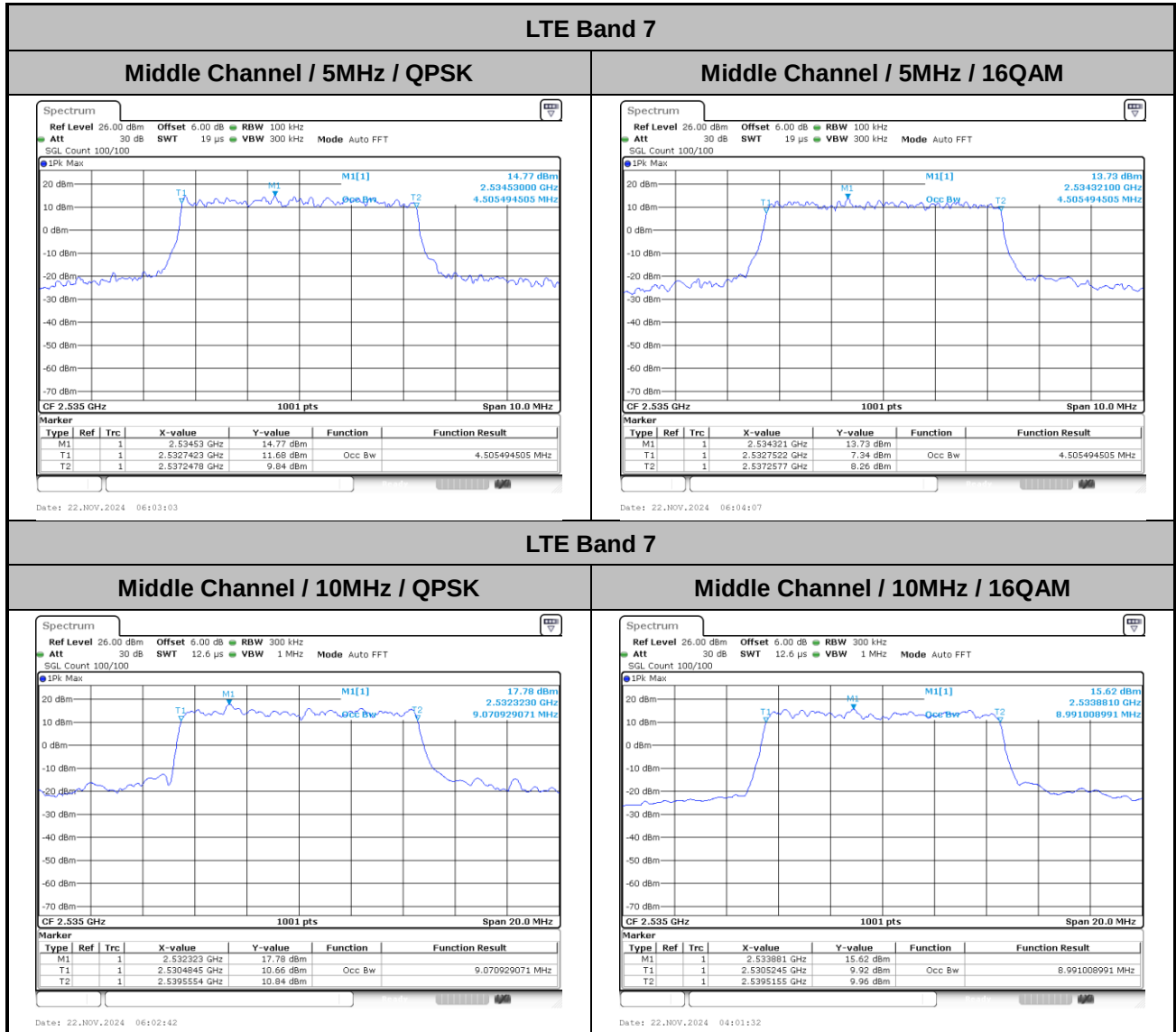


Date: 22.NOV.2024 05:52:37



Occupied Bandwidth

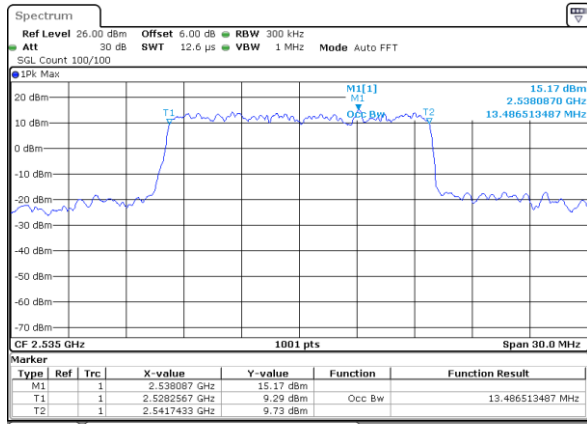
Mode	LTE Band 7 : 99%OBW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.51	4.51	9.07	8.99	13.49	13.55	18.02	17.90





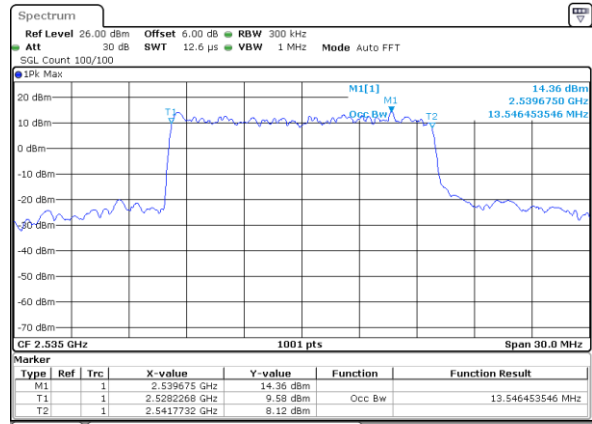
LTE Band 7

Middle Channel / 15MHz / QPSK



Date: 22.NOV.2024 04:29:13

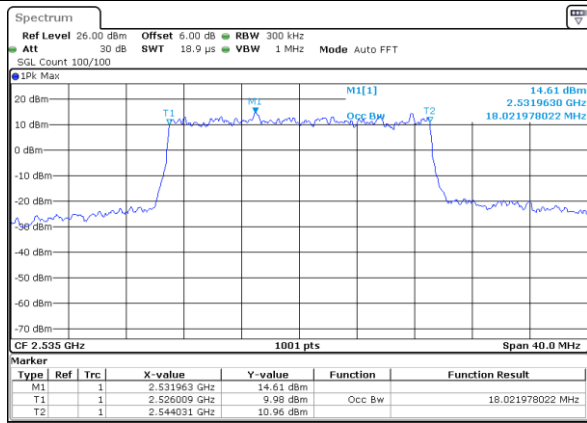
Middle Channel / 15MHz / 16QAM



Date: 22.NOV.2024 04:29:14

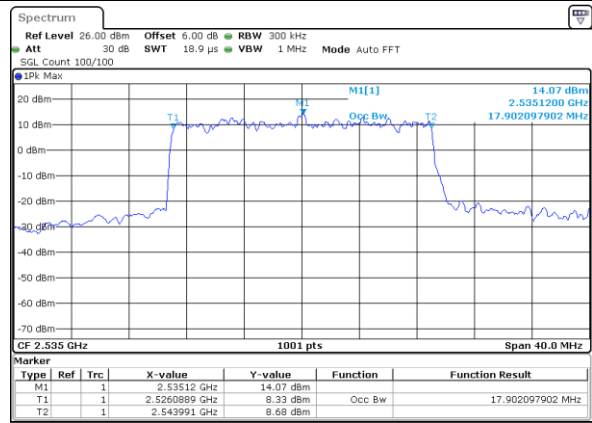
LTE Band 7

Middle Channel / 20MHz / QPSK



Date: 22.NOV.2024 05:01:55

Middle Channel / 20MHz / 16QAM



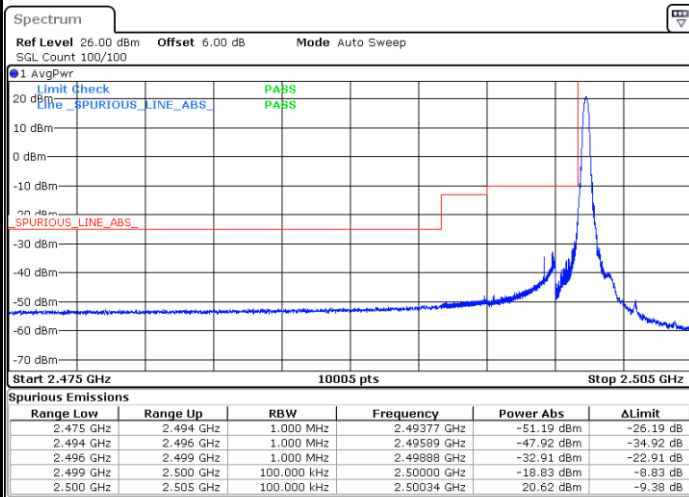
Date: 22.NOV.2024 05:02:16



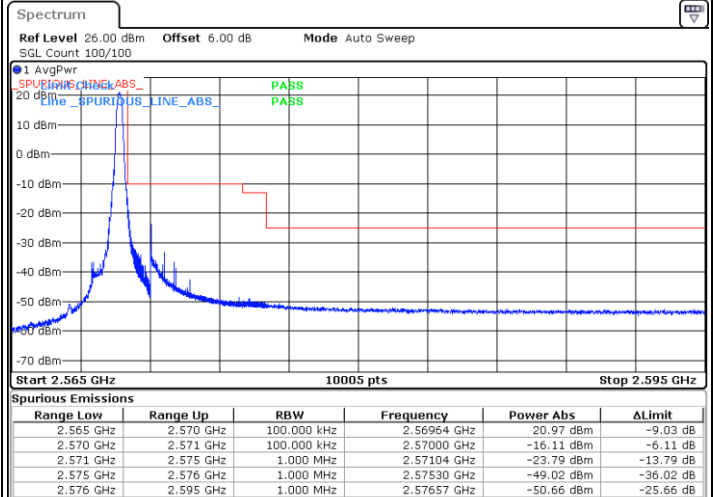
Conducted Band Edge

LTE Band 7 / 5MHz / QPSK

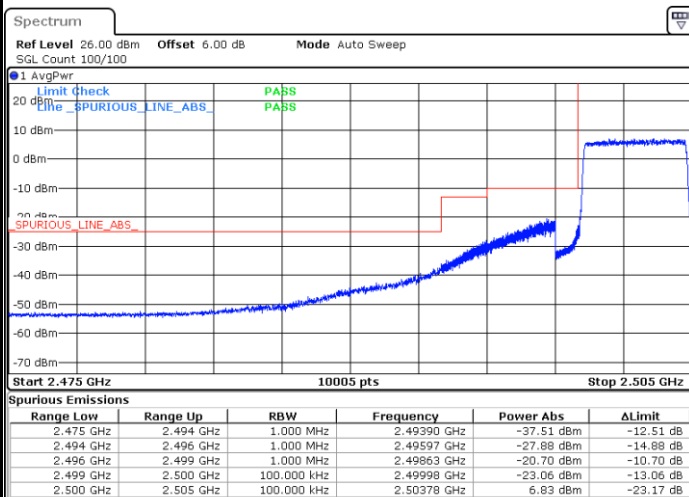
Lowest Band Edge / 1 RB



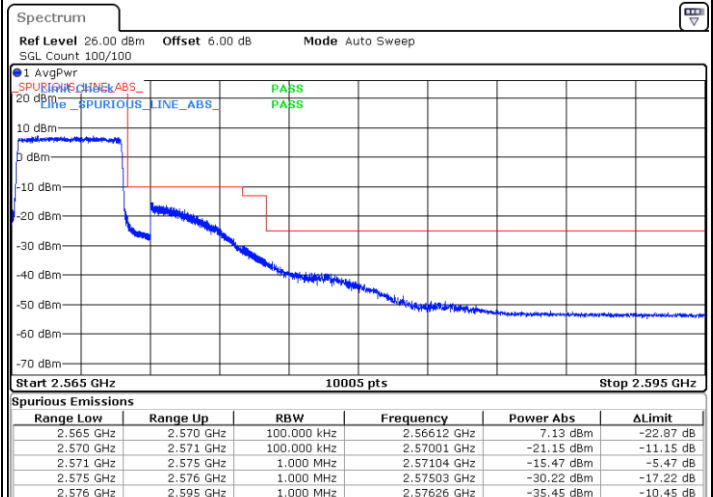
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



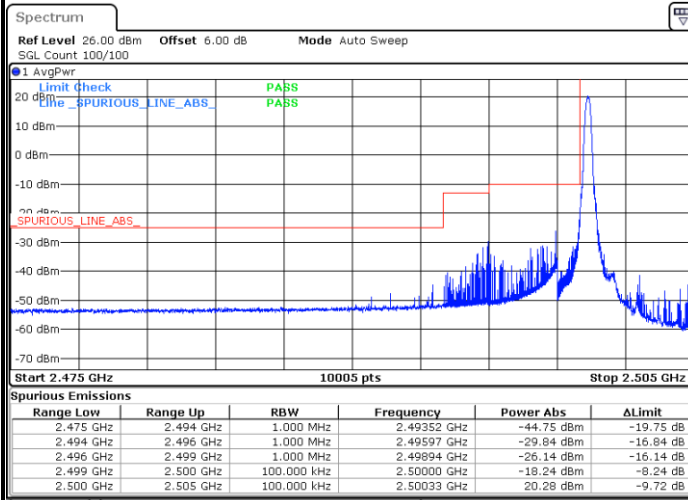
Highest Band Edge / Full RB



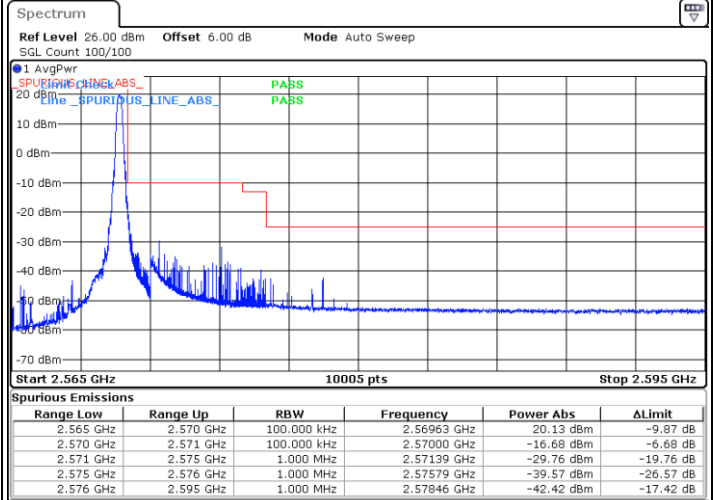


LTE Band 7 / 5MHz / 16QAM

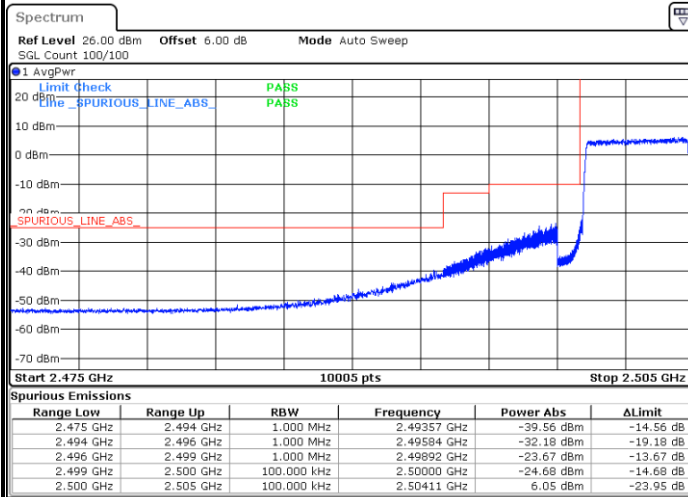
Lowest Band Edge / 1RB



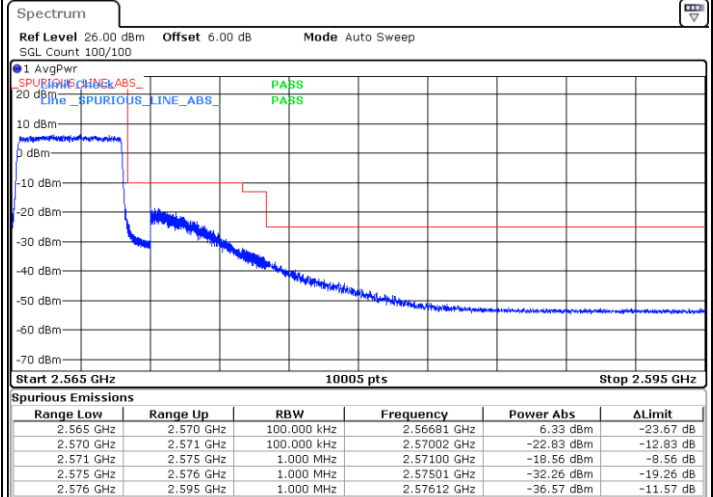
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



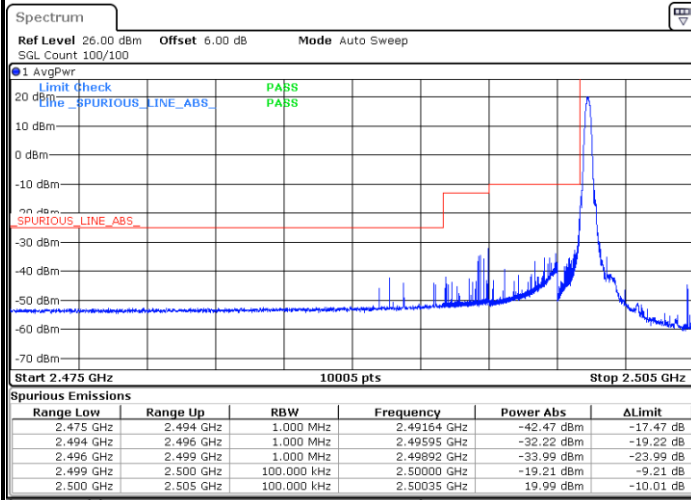
Highest Band Edge / Full RB



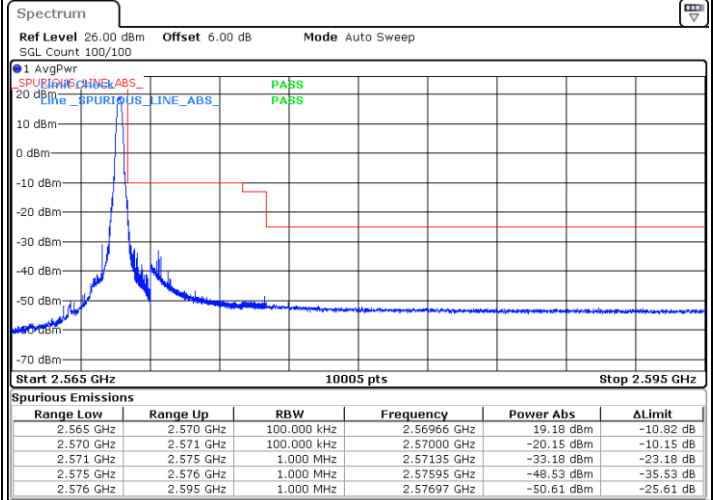


LTE Band 7 / 5MHz / 64QAM

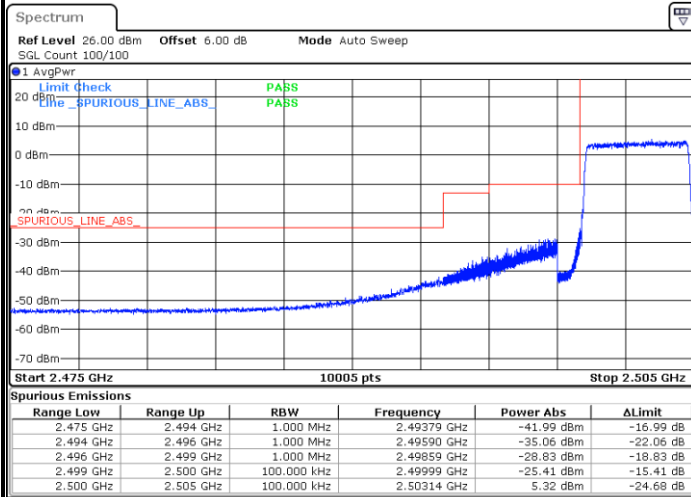
Lowest Band Edge / 1RB



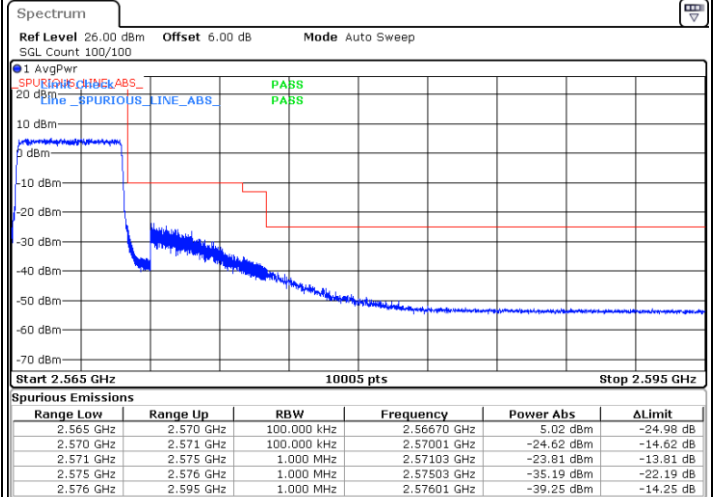
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



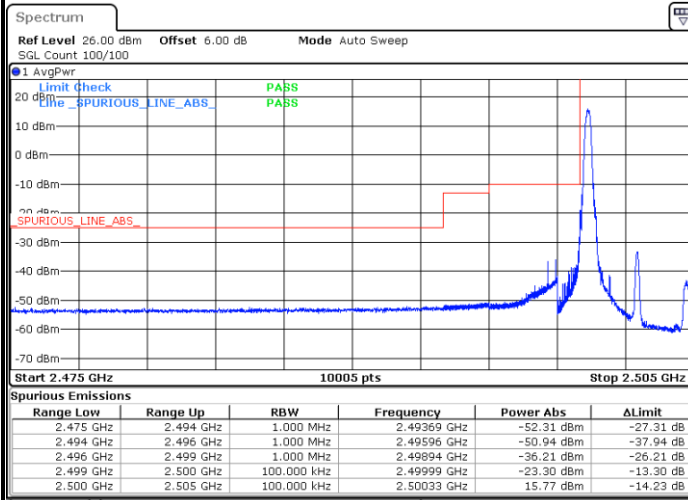
Highest Band Edge / Full RB





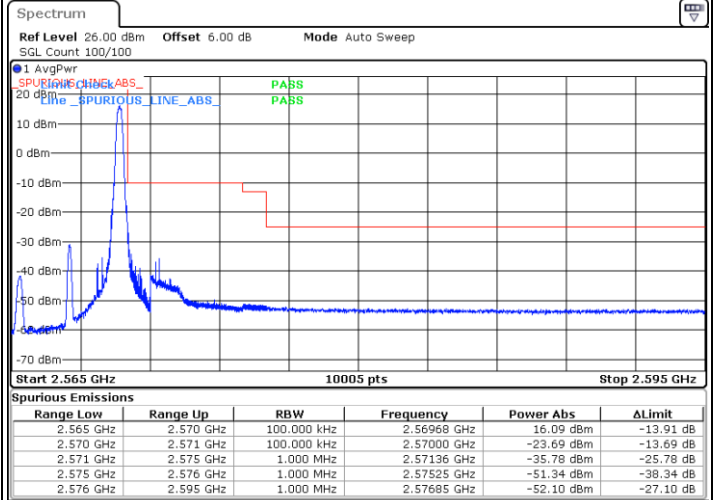
LTE Band 7 / 5MHz / 256QAM

Lowest Band Edge / 1RB



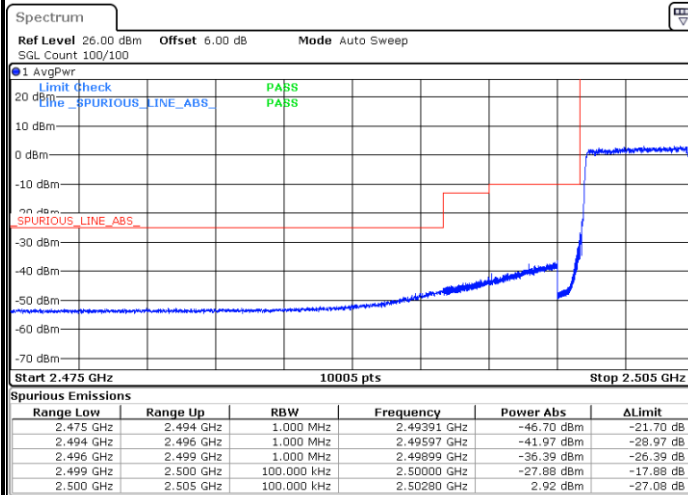
Date: 22.NOV.2024 03:39:49

Highest Band Edge / 1 RB



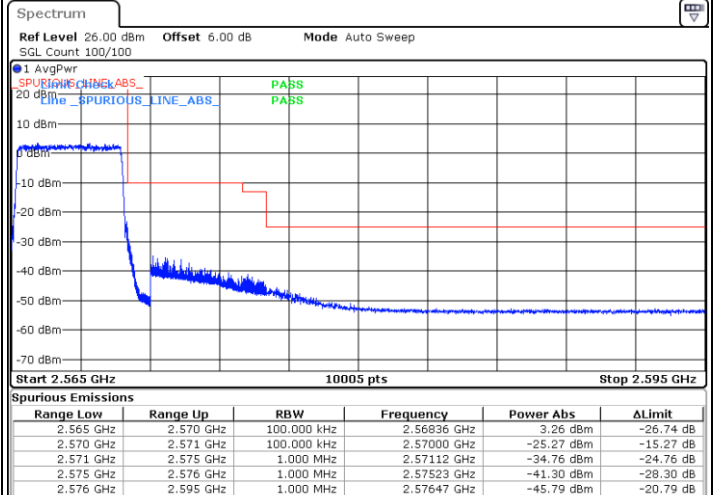
Date: 22.NOV.2024 03:52:46

Lowest Band Edge / Full RB



Date: 22.NOV.2024 03:41:09

Highest Band Edge / Full RB

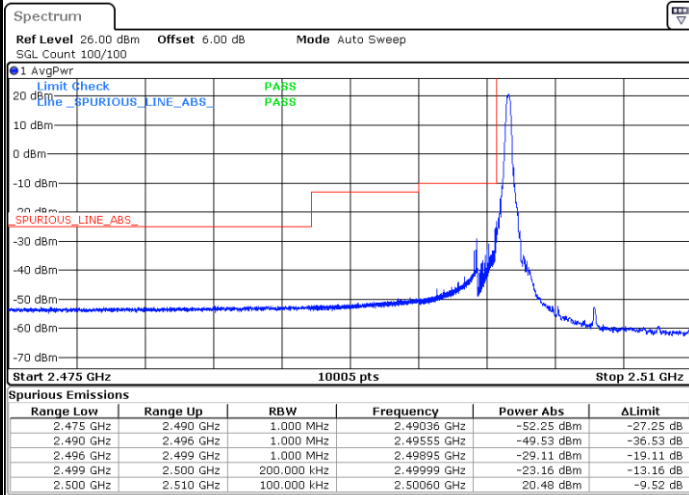


Date: 22.NOV.2024 03:55:12

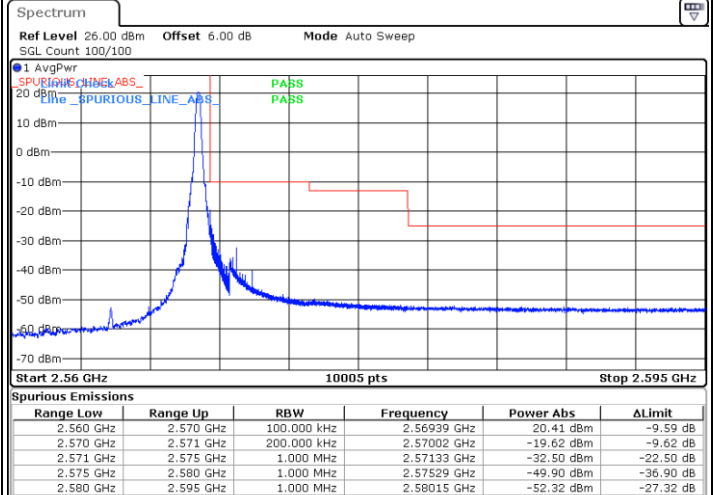


LTE Band 7 / 10MHz / QPSK

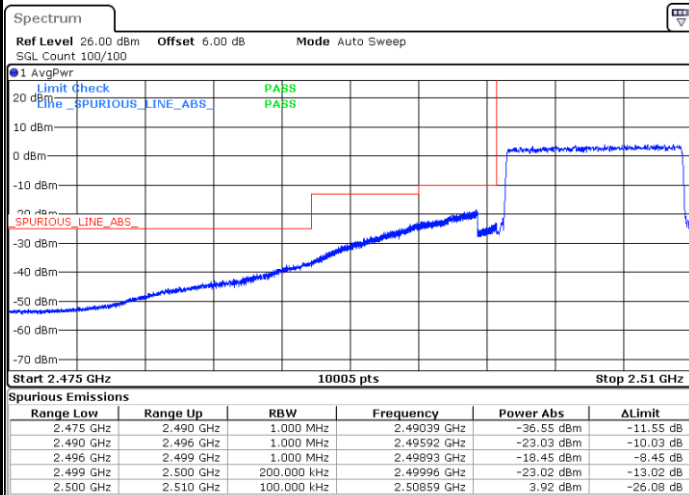
Lowest Band Edge / 1 RB



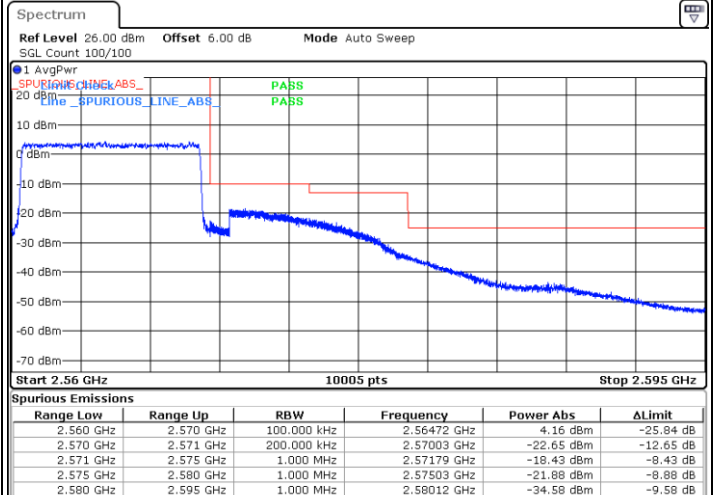
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



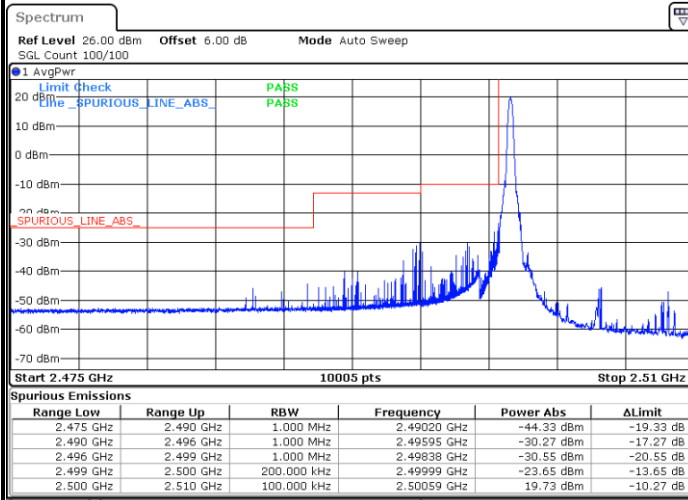
Highest Band Edge / Full RB



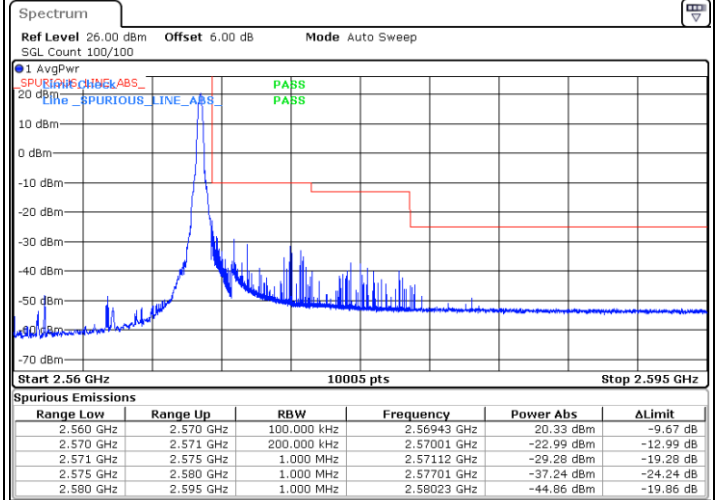


LTE Band 7 / 10MHz / 16QAM

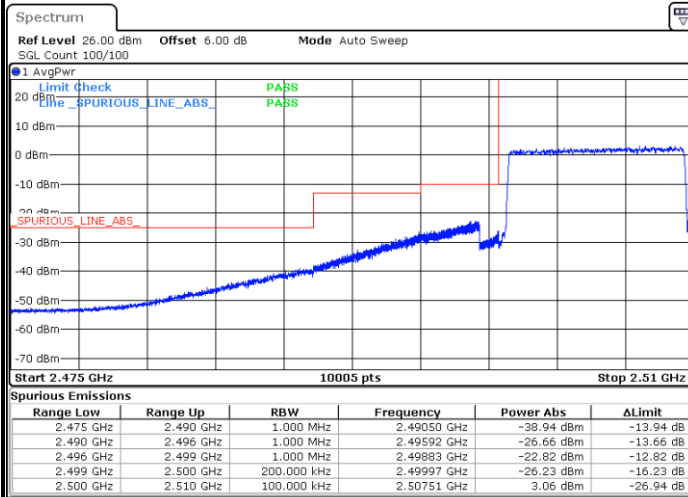
Lowest Band Edge / 1 RB



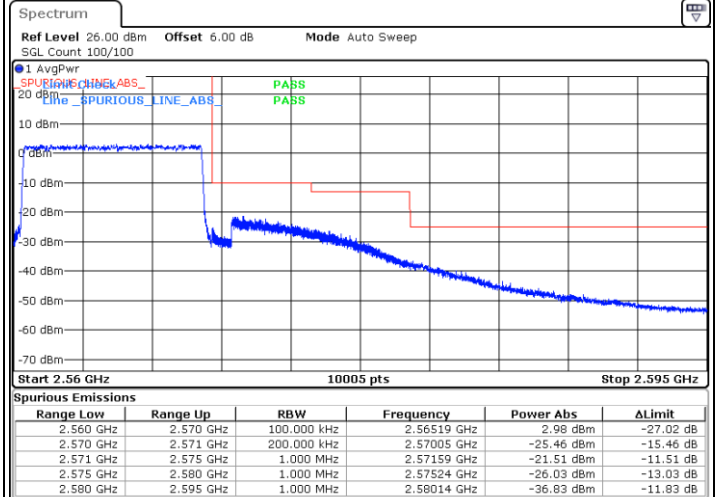
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



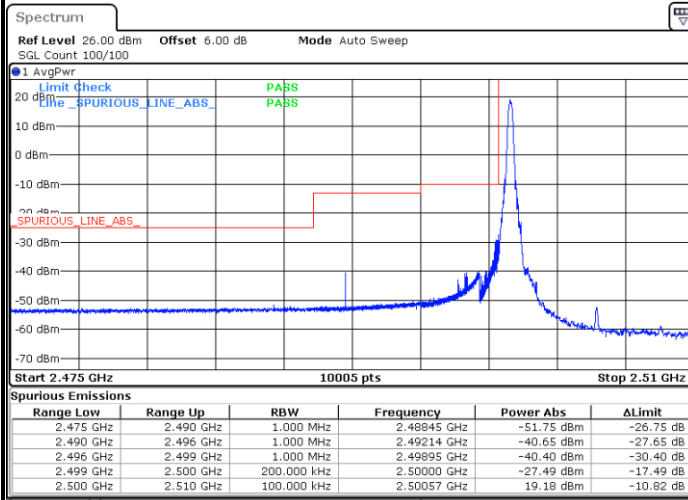
Highest Band Edge / Full RB



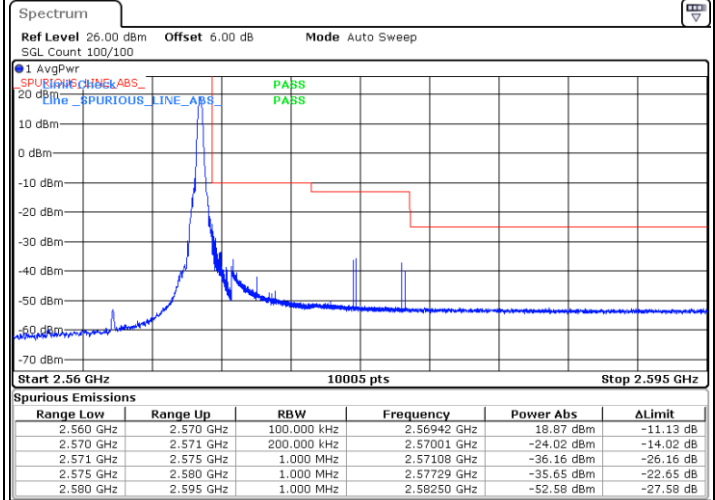


LTE Band 7 / 10MHz / 64QAM

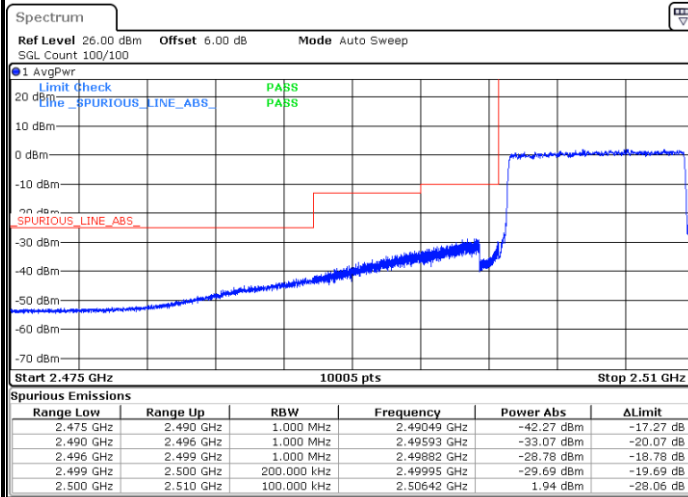
Lowest Band Edge / 1 RB



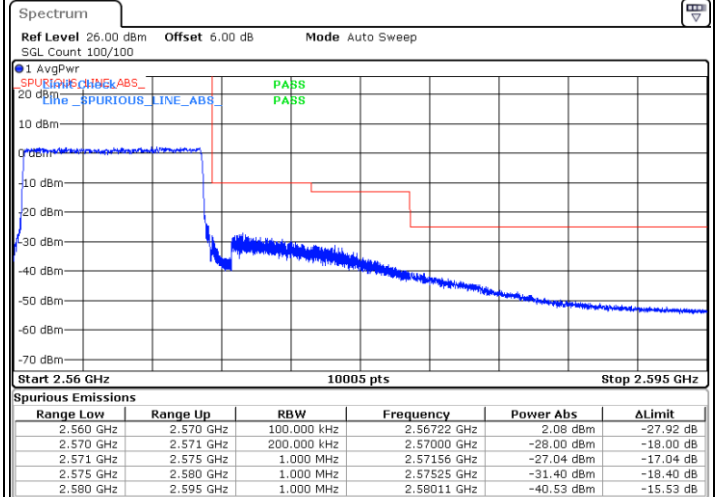
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



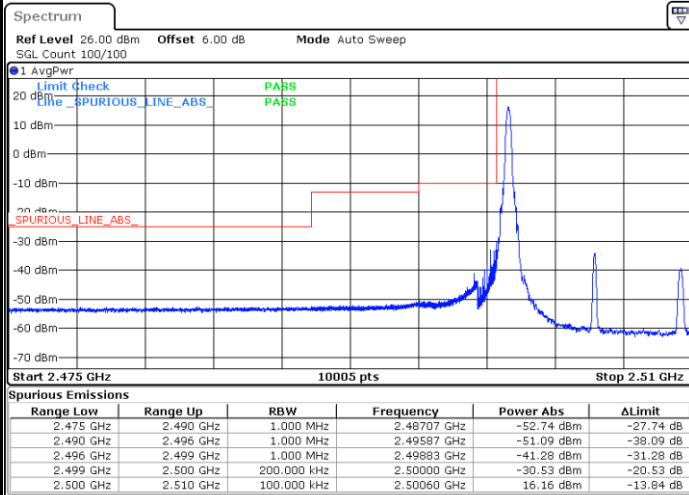
Highest Band Edge / Full RB



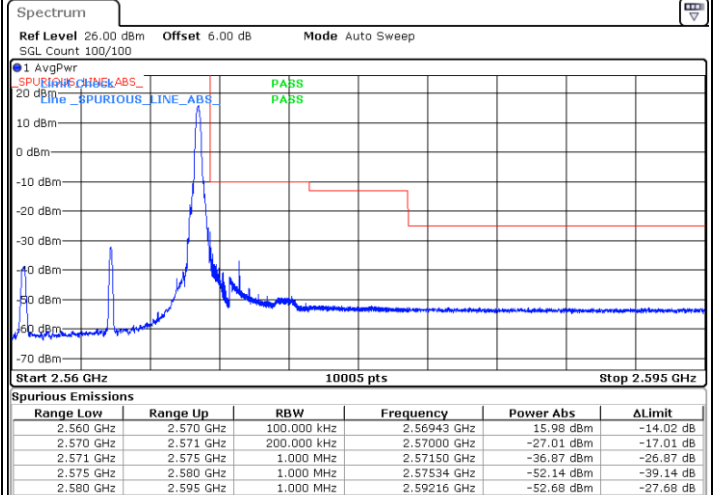


LTE Band 7 / 10MHz / 256QAM

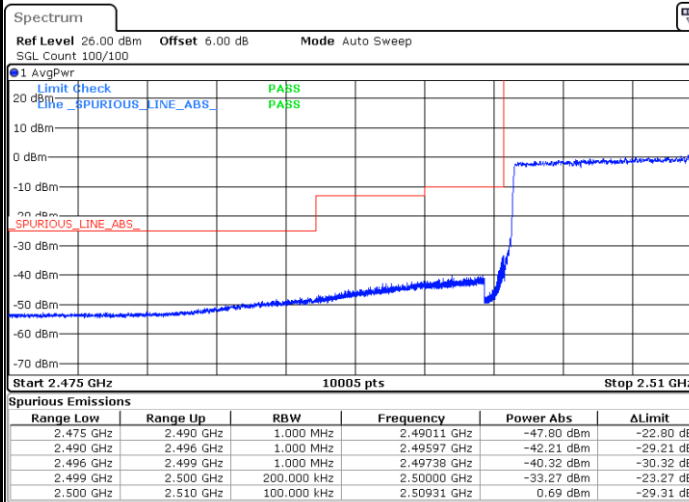
Lowest Band Edge / 1 RB



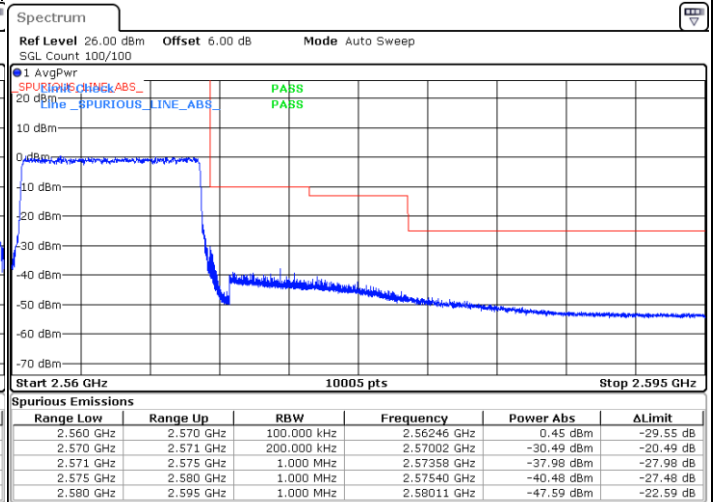
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



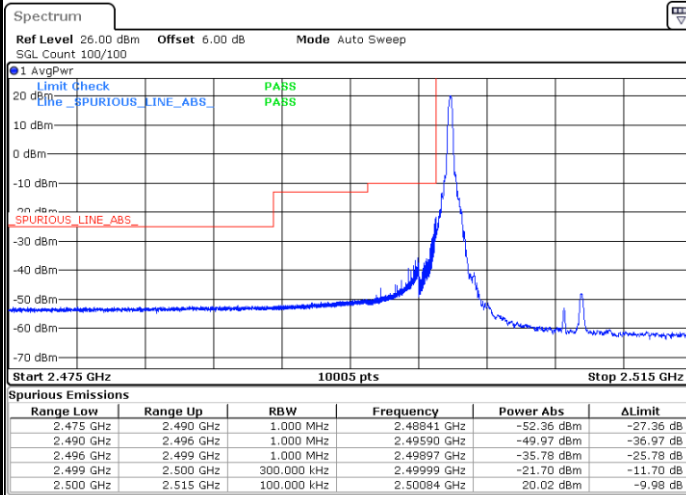
Highest Band Edge / Full RB



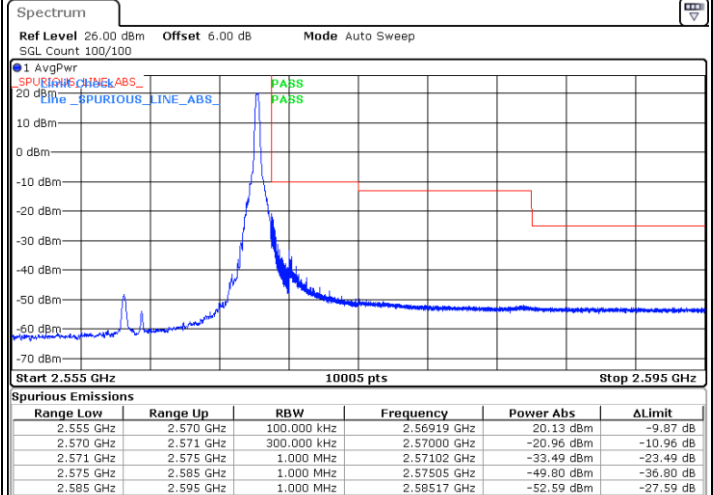


LTE Band 7 / 15MHz / QPSK

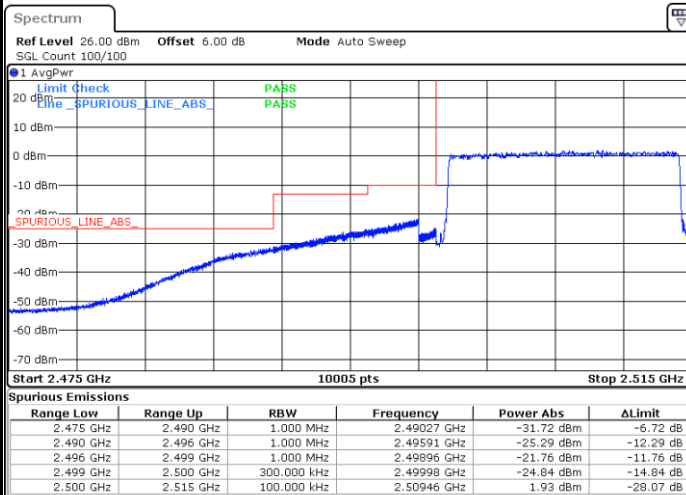
Lowest Band Edge / 1 RB



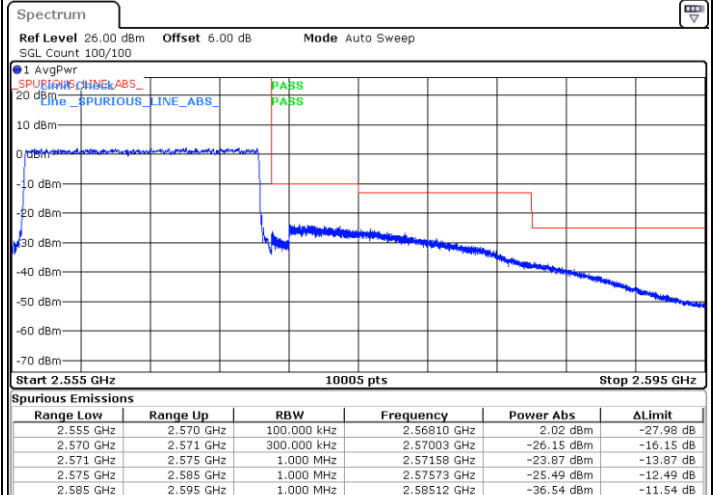
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



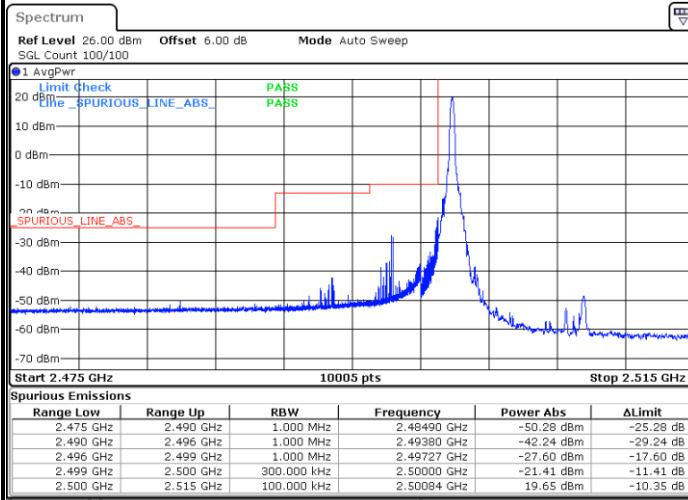
Highest Band Edge / Full RB



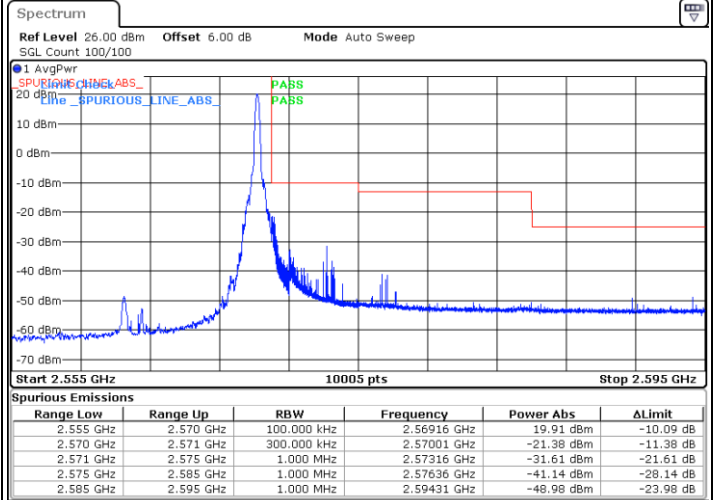


LTE Band 7 / 15MHz / 16QAM

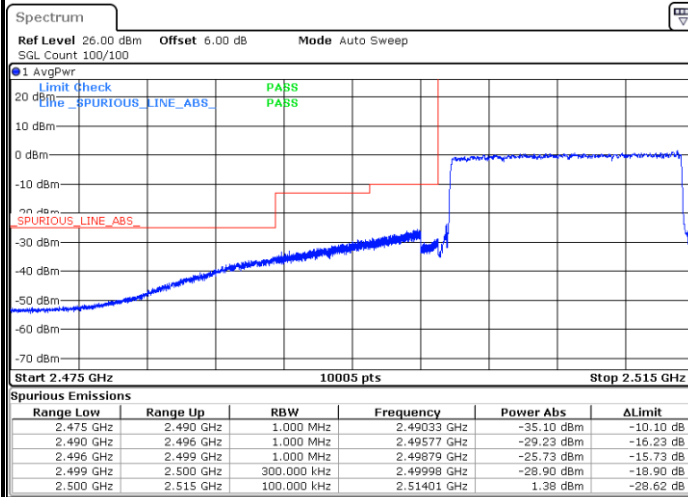
Lowest Band Edge / 1 RB



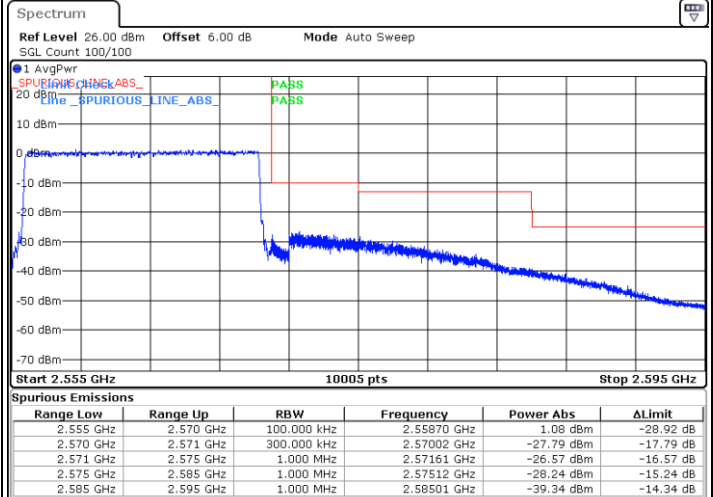
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



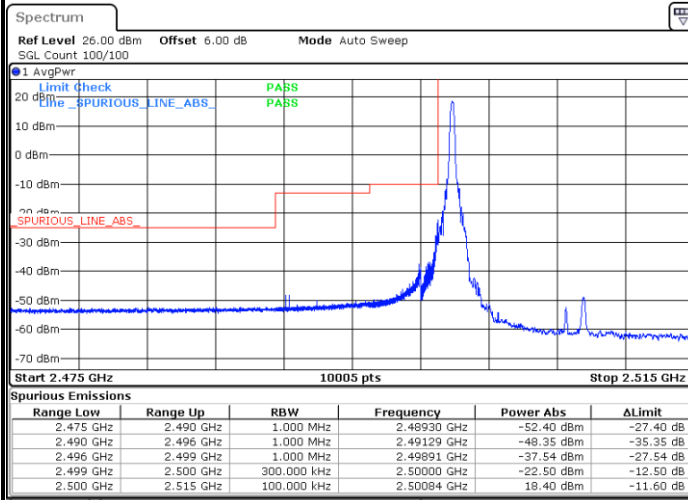
Highest Band Edge / Full RB



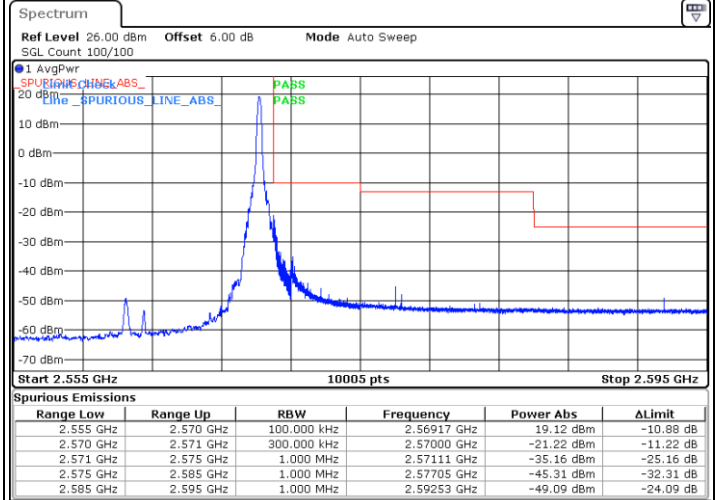


LTE Band 7 / 15MHz / 64QAM

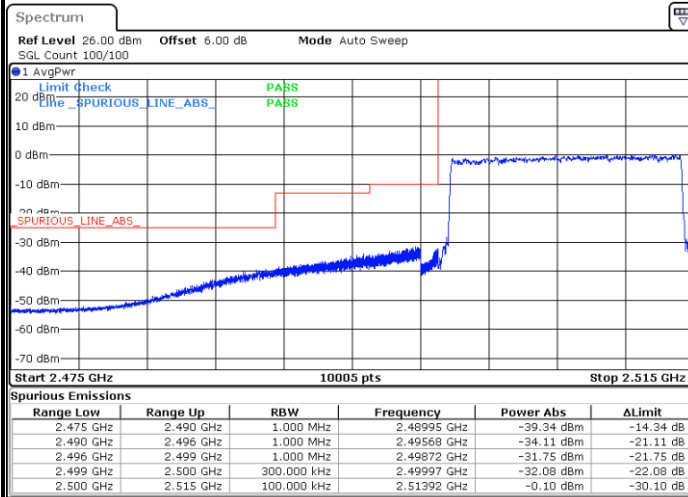
Lowest Band Edge / 1 RB



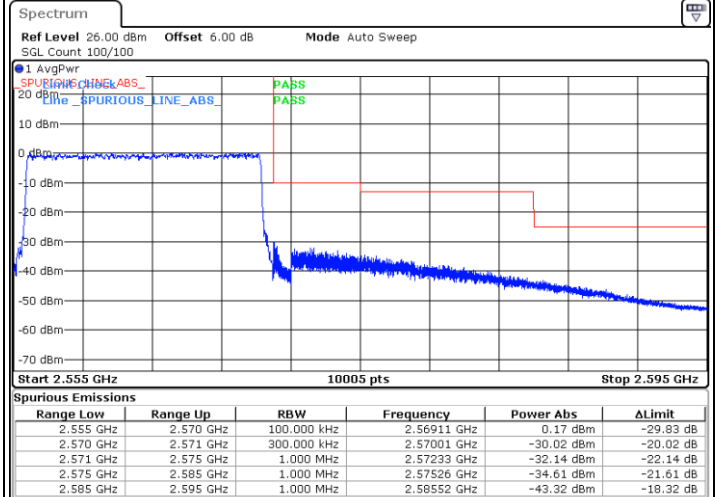
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



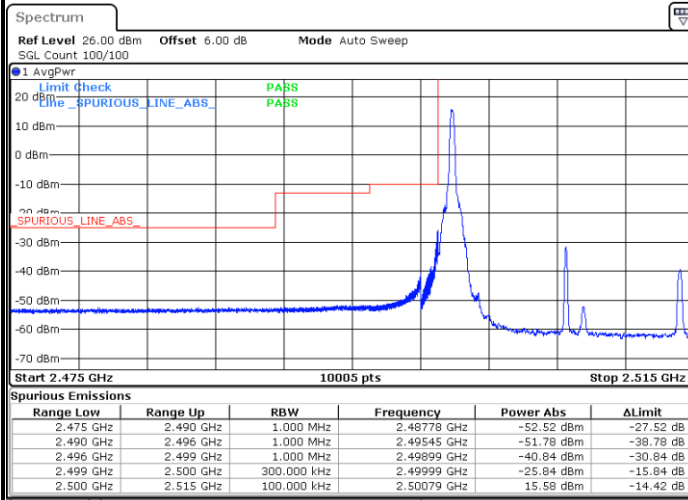
Highest Band Edge / Full RB



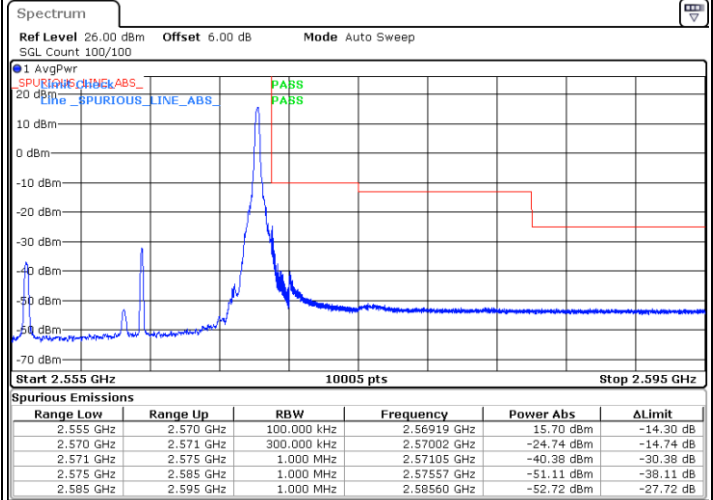


LTE Band 7 / 15MHz / 256QAM

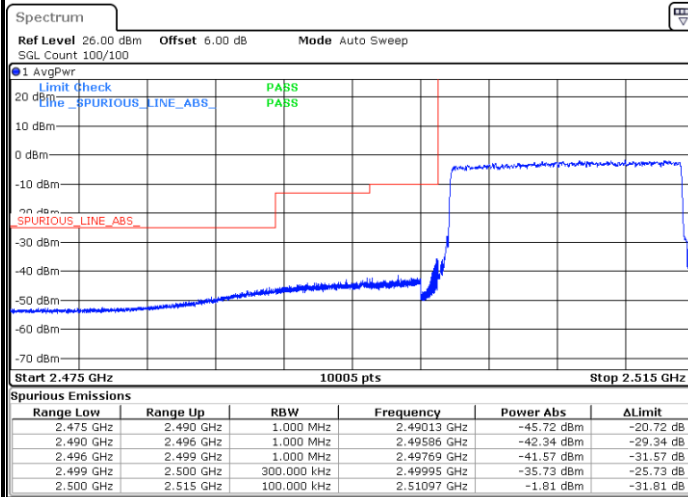
Lowest Band Edge / 1 RB



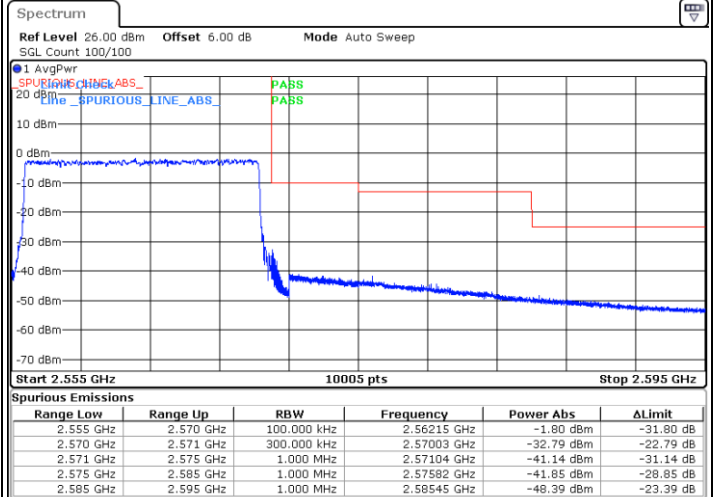
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



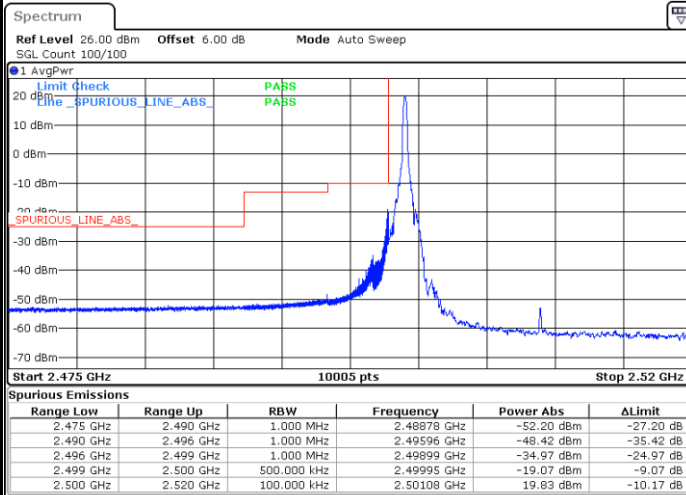
Highest Band Edge / Full RB



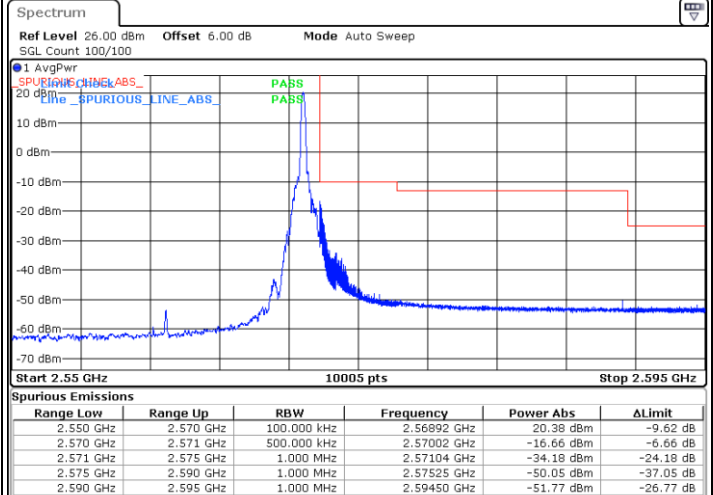


LTE Band 7 / 20MHz / QPSK

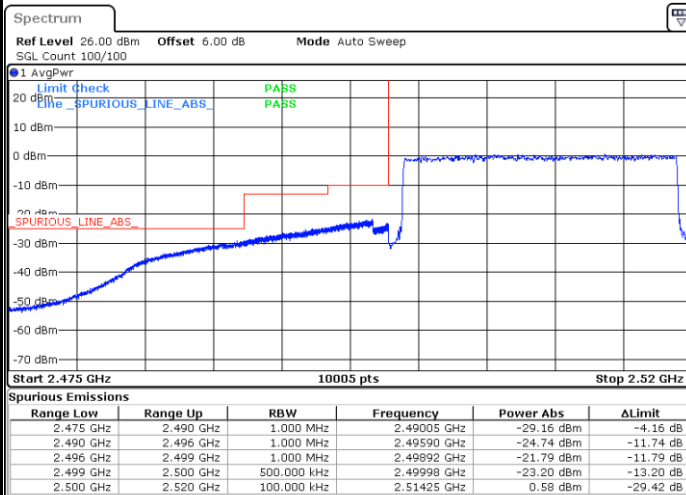
Lowest Band Edge / 1 RB



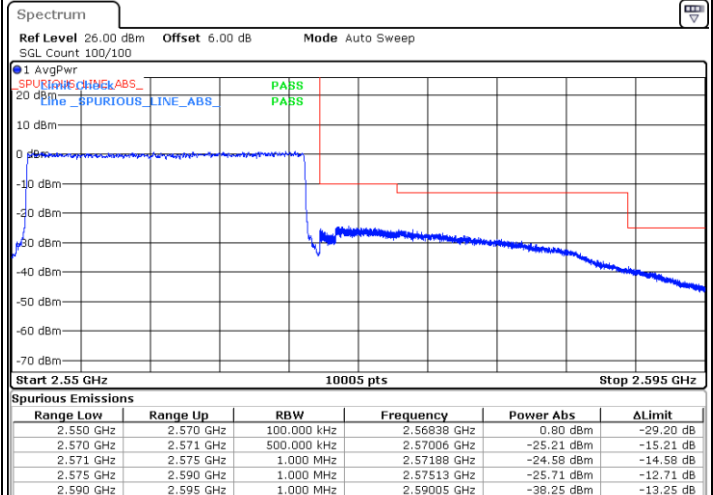
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



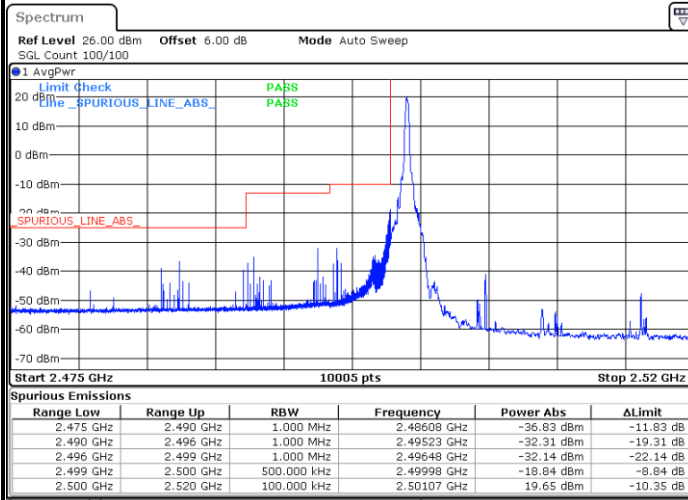
Highest Band Edge / Full RB



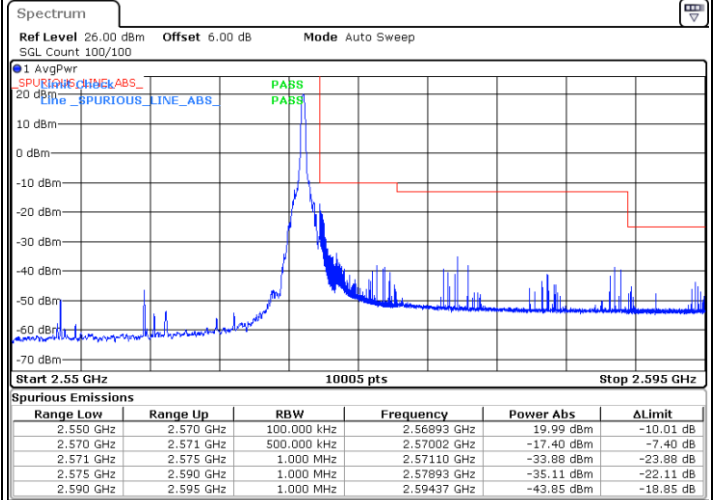


LTE Band 7 / 20MHz / 16QAM

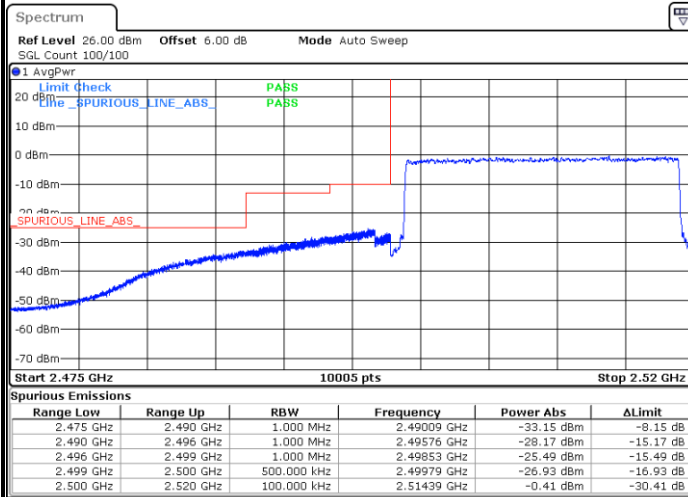
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

