



FCC RF Test Report

APPLICANT : CASTLES TECHNOLOGY CO., LTD.
EQUIPMENT : POS Terminal
BRAND NAME :  CASTLES TECHNOLOGY
MODEL NAME : S1MINI2
FCC ID : WIYS1MINI2001
STANDARD : 47 CFR Part 22(H), 24(E), 27(L)
CLASSIFICATION : PCS Licensed Transmitter (PCB)
TEST DATE(S) : Mar. 21, 2025 ~ Apr. 11, 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
FG531202B	Rev. 01	Initial issue of report	May 15, 2025

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	Report Only	-
	§22.913(a)(5)	Effective Radiated Power (Band 5) (Band 26)	ERP < 7 Watt	PASS	-
	§24.232(c)	Equivalent Isotropic Radiated Power (Band 2) (Band 25)	EIRP < 2Watt		-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)	EIRP < 1Watt		-
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	-	Report Only	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 25) (Band 26) (Band 66)	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 25) (Band 26) (Band 66)	< 43+10log10(P[Watts])	PASS	-
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	-
	§2.1055 §24.235 §27.54		Within Authorized Band		
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 25) (Band 26) (Band 66)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 33.87 dB at 3420.00 MHz

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

CASTLES TECHNOLOGY CO., LTD.

6F, NO.207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT, NEW TAIPEI CITY 231030, TAIWAN (R.O.C.)

1.2 Manufacturer

CASTLES TECHNOLOGY CO., LTD.

6F, NO.207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT, NEW TAIPEI CITY 231030, TAIWAN (R.O.C.)

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	POS Terminal
Brand Name	 CASTLES TECHNOLOGY
Model Name	S1MINI2
FCC ID	WIYS1MINI2001
IMEI Code	Conducted: 350125910010942 Radiation: 350125910010900
HW Version	HW-V-1D.00
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 2 : 1850 MHz ~ 1910 MHz LTE Band 4 : 1710 MHz ~ 1755 MHz LTE Band 5 : 824 MHz ~ 849 MHz LTE Band 25 : 1850 MHz ~ 1915 MHz LTE Band 26 : 824 MHz ~ 849 MHz LTE Band 66 : 1710 MHz ~ 1780 MHz
Rx Frequency	LTE Band 2 : 1930 MHz ~ 1990 MHz LTE Band 4 : 2110 MHz ~ 2155 MHz LTE Band 5 : 869 MHz ~ 894 MHz LTE Band 25 : 1930 MHz ~ 1995 MHz LTE Band 26 : 869 MHz ~ 894 MHz LTE Band 66 : 2110 MHz ~ 2180 MHz
Bandwidth	LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 25 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 26 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz LTE Band 66 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 2 : 22.05 dBm LTE Band 4 : 22.08 dBm

	LTE Band 5 : 22.02 dBm LTE Band 25 : 22.09 dBm LTE Band 26 : 22.04 dBm LTE Band 66 : 22.33 dBm
Antenna Gain	LTE Band 2 : 0.3 dBi LTE Band 4 : -0.4 dBi LTE Band 5 : -2.3 dBi LTE Band 25 : 0.3 dBi LTE Band 26 : -2.3 dBi LTE Band 66 : -0.4 dBi
Type of Modulation	QPSK / 16QAM / 64QAM

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 2		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
1.4	1850.7 ~ 1909.3	0.1694	1M09G7D	0.1409	1M09W7D
3	1851.5 ~ 1908.5	0.1679	2M70G7D	0.1409	2M70W7D
5	1852.5 ~ 1907.5	0.1671	4M49G7D	0.1387	4M50W7D
10	1855.0 ~ 1905.0	0.1687	9M11G7D	0.1409	9M05W7D
15	1857.5 ~ 1902.5	0.1683	13M5G7D	0.1400	13M6W7D
20	1860.0 ~ 1900.0	0.1718	17M9G7D	0.1422	17M9W7D

LTE Band 25		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
1.4	1850.7 ~ 1914.3	0.1694	1M09G7D	0.1403	1M09W7D
3	1851.5 ~ 1913.5	0.1710	2M70G7D	0.1413	2M70W7D
5	1852.5 ~ 1912.5	0.1706	4M49G7D	0.1409	4M50W7D
10	1855.0 ~ 1910.0	0.1694	9M11G7D	0.1416	9M05W7D
15	1857.5 ~ 1907.5	0.1706	13M5G7D	0.1409	13M6W7D
20	1860.0 ~ 1905.0	0.1734	17M9G7D	0.1439	17M9W7D



LTE Band 4		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
1.4	1710.7 ~ 1754.3	0.1416	1M09G7D	0.1186	1M09W7D
3	1711.5 ~ 1753.5	0.1419	2M71G7D	0.1189	2M69W7D
5	1712.5 ~ 1752.5	0.1449	4M50G7D	0.1202	4M47W7D
10	1715.0 ~ 1750.0	0.1419	9M07G7D	0.1191	9M01W7D
15	1717.5 ~ 1747.5	0.1445	13M4G7D	0.1199	13M5W7D
20	1720.0 ~ 1745.0	0.1472	17M9G7D	0.1222	17M9W7D

LTE Band 5		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
1.4	824.7 ~ 848.3	0.0562	1M09G7D	0.0466	1M09W7D
3	825.5 ~ 847.5	0.0562	2M72G7D	0.0470	2M70W7D
5	826.5 ~ 846.5	0.0565	4M49G7D	0.0471	4M49W7D
10	829.0 ~ 844.0	0.0571	9M05G7D	0.0478	9M03W7D

LTE Band 26		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
1.4	824.7 ~ 848.3	0.0561	1M09G7D	0.0469	1M09W7D
3	825.5 ~ 847.5	0.0569	2M72G7D	0.0474	2M70W7D
5	826.5 ~ 846.5	0.0561	4M49G7D	0.0472	4M49W7D
10	829.0 ~ 844.0	0.0566	9M05G7D	0.0474	9M03W7D
15	831.5 ~ 841.5	0.0574	13M4G7D	0.0479	13M5W7D
CH26790	824.0	0.0566	13M5G7D	0.0467	13M4W7D



LTE Band 66		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
1.4	1710.7 ~ 1779.3	0.1528	1M09G7D	0.1276	1M09W7D
3	1711.5 ~ 1778.5	0.1545	2M71G7D	0.1211	2M69W7D
5	1712.5 ~ 1777.5	0.1528	4M50G7D	0.1205	4M47W7D
10	1715.0 ~ 1775.0	0.1535	9M07G7D	0.1197	9M01W7D
15	1717.5 ~ 1772.5	0.1528	13M4G7D	0.1194	13M5W7D
20	1720.0 ~ 1770.0	0.1560	17M9G7D	0.1219	17M9W7D

Note:

1. LTE Band 26 overlaps the entire frequency range of LTE Band 5. Therefore, the test results provided in this report covers Band 5 and the portion of Band 26 subject to Part 22.
2. LTE Band 66 overlaps the entire frequency range of LTE Band 4. Therefore, the test results provided in this report covers Band 66 as well as Band 4.
3. LTE Band 25 overlaps the entire frequency range of LTE Band 2. Therefore, the test results provided in this report covers Band 25 as well as Band 2.
4. 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	Manufacturer	Name	Version
1.	TH01-KS	SPORTON	Part2224_Ver5.0 200330	5.0
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 22(H), 24(E), 27(L)
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

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



2 Test Configuration of Equipment Under Test

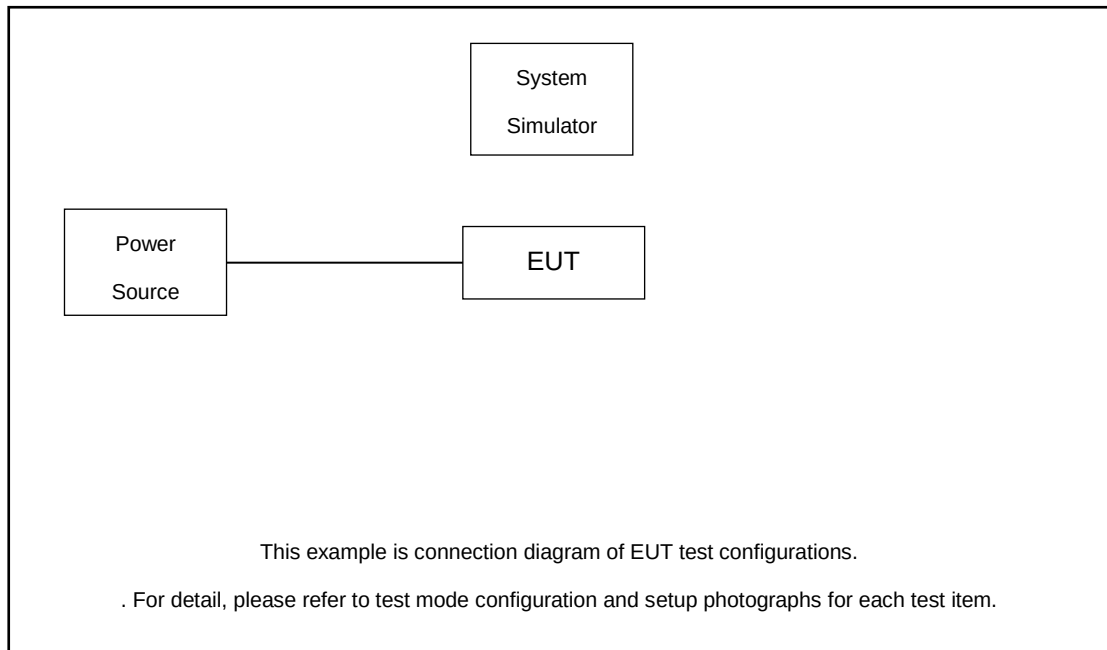
2.1 Test Mode

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

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

Test 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	2	v	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	v	-	v	v	v	v	v	v
	25	v	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	26	v	v	v	v	v	-	v	v	v	-	v	v	v	v	v	v
	66	v	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
Peak-to-Average Ratio	25						v	v	v	v	-			v		v	
	26					v	-	v	v	v	-			v		v	
	66						v	v	v	v	-			v		v	
26dB and 99% Bandwidth	25	v	v	v	v	v	v	v	v		-			v		v	
	26	v	v	v	v	v	-	v	v		-			v		v	
	66	v	v	v	v	v	v	v	v		-			v		v	
Conducted Band Edge	25	v	v	v	v	v	v	v	v	v	-	v		v	v		v
	26	v	v	v	v	v	-	v	v	v	-	v		v	v		v
	66	v	v	v	v	v	v	v	v	v	-	v		v	v		v
Conducted Spurious Emission	25	v	v	v	v	v	v	v			-	v			v	v	v
	26	v	v	v	v	v	-	v			-	v			v	v	v
	66	v	v	v	v	v	v	v			-	v			v	v	v
Frequency Stability	25				v			v			-			v		v	
	26				v		-	v			-			v		v	
	66				v			v			-			v		v	
E.R.P / E.I.R.P	2	v	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	v	-	v	v	v	v	v	v
	25	v	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	26	v	v	v	v	v	-	v	v	v	-	v	v	v	v	v	v
	66	v	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
Radiated Spurious Emission	25	Worst Case													v	v	v
	26	Worst Case													v	v	v
	66	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.	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 between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 5.4 dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 5.4 \text{ (dB)} \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

LTE Band 2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	18700	18900	19100
	Frequency	1860	1880	1900
15	Channel	18675	18900	19125
	Frequency	1857.5	1880	1902.5
10	Channel	18650	18900	19150
	Frequency	1855	1880	1905
5	Channel	18625	18900	19175
	Frequency	1852.5	1880	1907.5
3	Channel	18615	18900	19185
	Frequency	1851.5	1880	1908.5
1.4	Channel	18607	18900	19193
	Frequency	1850.7	1880	1909.3

LTE Band 4 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20050	20175	20300
	Frequency	1720	1732.5	1745
15	Channel	20025	20175	20325
	Frequency	1717.5	1732.5	1747.5
10	Channel	20000	20175	20350
	Frequency	1715	1732.5	1750
5	Channel	19975	20175	20375
	Frequency	1712.5	1732.5	1752.5
3	Channel	19965	20175	20385
	Frequency	1711.5	1732.5	1753.5
1.4	Channel	19957	20175	20393
	Frequency	1710.7	1732.5	1754.3



LTE Band 5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	20450	20525	20600
	Frequency	829	836.5	844
5	Channel	20425	20525	20625
	Frequency	826.5	836.5	846.5
3	Channel	20415	20525	20635
	Frequency	825.5	836.5	847.5
1.4	Channel	20407	20525	20643
	Frequency	824.7	836.5	848.3

LTE Band 25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	26140	26340	26590
	Frequency	1860	1880	1905
15	Channel	26115	26340	26615
	Frequency	1857.5	1880	1907.5
10	Channel	26090	26340	26640
	Frequency	1855	1880	1910
5	Channel	26065	26340	26665
	Frequency	1852.5	1880	1912.5
3	Channel	26055	26340	26675
	Frequency	1851.5	1880	1913.5
1.4	Channel	26047	26340	26683
	Frequency	1850.7	1880	1914.3



LTE Band 26 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	26865	26915	26965
	Frequency	831.5	836.5	841.5
10	Channel	26840	26915	26990
	Frequency	829	836.5	844
5	Channel	26815	26915	27015
	Frequency	826.5	836.5	846.5
3	Channel	26805	26915	27025
	Frequency	825.5	836.5	847.5
1.4	Channel	26797	26915	27033
	Frequency	824.7	836.5	848.3

LTE Band 66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	132072	132322	132572
	Frequency	1720	1745	1770
15	Channel	132047	132322	132597
	Frequency	1717.5	1745	1772.5
10	Channel	132022	132322	132622
	Frequency	1715	1745	1775
5	Channel	131997	132322	132647
	Frequency	1712.5	1745	1777.5
3	Channel	131987	132322	132657
	Frequency	1711.5	1745	1778.5
1.4	Channel	131979	132322	132665
	Frequency	1710.7	1745	1779.3

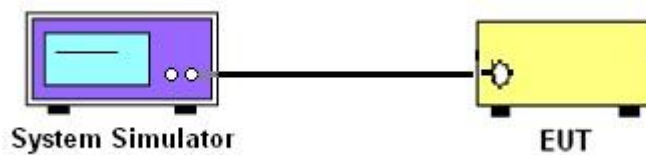
3 Conducted Test Items

3.1 Measuring Instruments

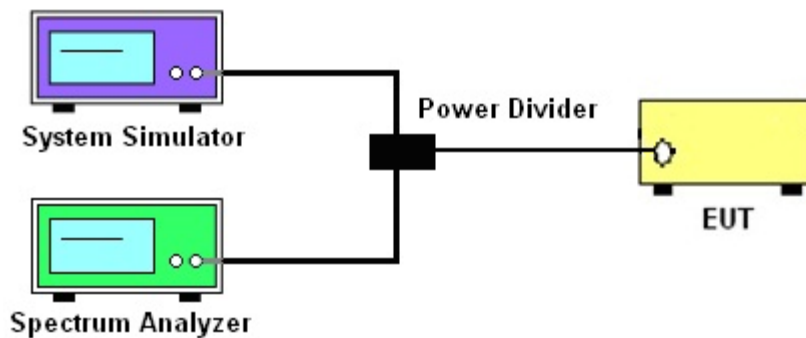
See list of measuring instruments of this test report.

3.2 Test Setup

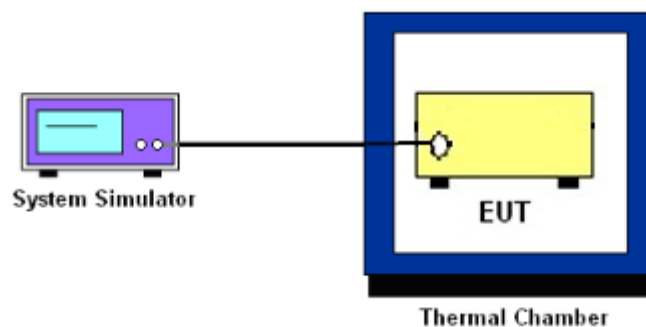
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

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

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

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5 and Band 26.

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 25.

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4 and Band 66.

According to KDB 412172 D01 Power Approach,

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

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.



3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

24.238 (a)

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

27.53 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
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% 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
5. Set spectrum analyzer with RMS detector.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. 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.

8. 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.

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

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13$ dBm.

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

3.9.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.9.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5
2. The EUT was placed in a temperature chamber at $20\pm 5^{\circ}\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

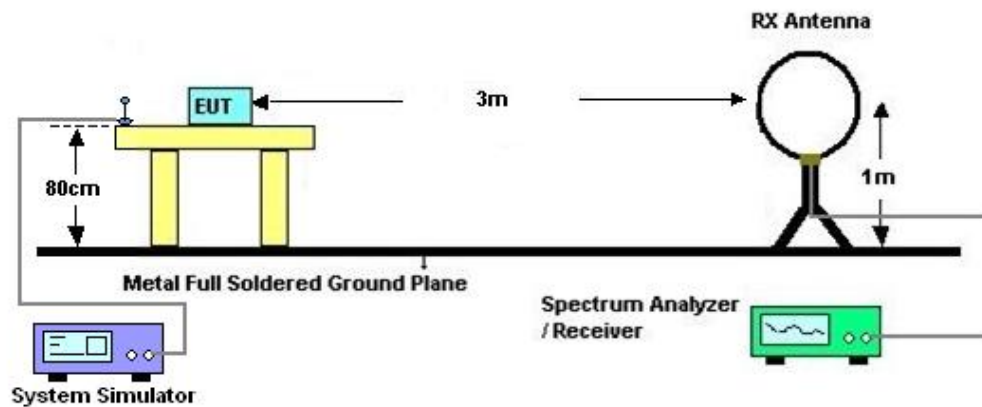
4 Radiated Test Items

4.1 Measuring Instruments

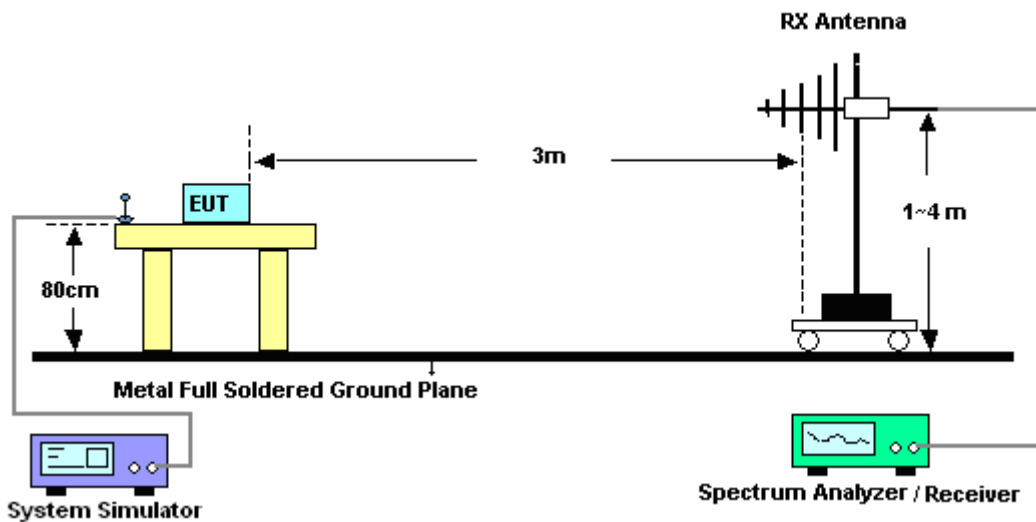
See list of measuring instruments of this test report.

4.2 Test Setup

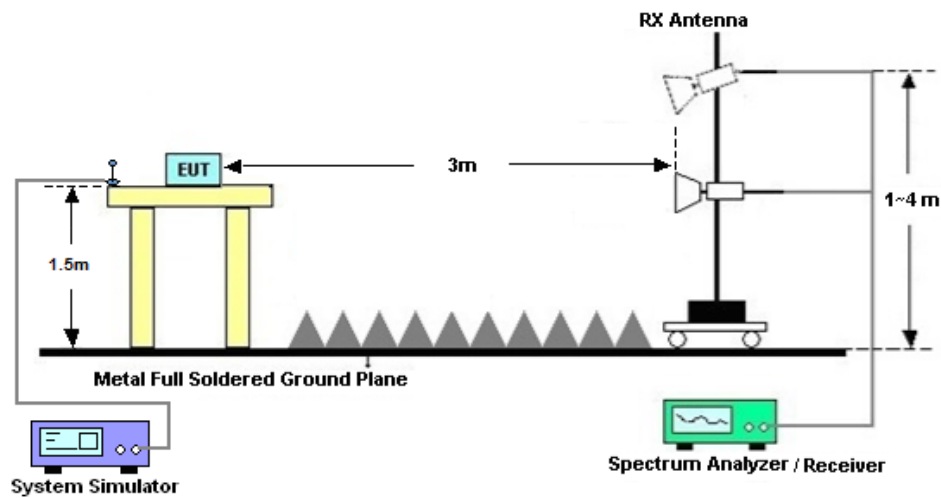
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

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

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11. $ERP \text{ (dBm)} = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

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



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 10, 2024	Mar. 21, 2025~ Apr. 01, 2025	Oct. 09, 2025	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Mar. 21, 2025~ Apr. 01, 2025	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 04, 2024	Mar. 21, 2025~ Apr. 01, 2025	Jul. 03, 2025	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz~44G, MAX 30dB	Oct. 11, 2024	Apr. 11, 2025	Oct. 10, 2025	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Apr. 11, 2025	Sep. 07, 2025	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz~1GHz	Nov. 23, 2024	Apr. 11, 2025	Nov. 22, 2025	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00227860	1GHz~18GHz	Aug. 16, 2024	Apr. 11, 2025	Aug. 15, 2025	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101116	18GHz~40GHz	Oct. 22, 2024	Apr. 11, 2025	Oct. 21, 2025	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	380826	9KHz~1GHz	Jul. 03, 2024	Apr. 11, 2025	Jul. 02, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM18G40G A	060852	18~40GHz	Jan. 03, 2025	Apr. 11, 2025	Jan. 02, 2026	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz~18Ghz	Oct. 09, 2024	Apr. 11, 2025	Oct. 08, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM01G18G A	060892	1Ghz~18Ghz	Oct. 09, 2024	Apr. 11, 2025	Oct. 08, 2025	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Apr. 11, 2025	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Apr. 11, 2025	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Apr. 11, 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	±2.22 dB
Occupied Channel Bandwidth	±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 :	Smile Wang	Temperature :	22~23°C
		Relative Humidity :	40~42%

Conducted Output Power(Average power) and ERP/EIRP

LTE Band 2:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP	EIRP	EIRP
Channel				18700	18900	19100	18700	18900	19100
Frequency (MHz)				1860	1880	1900	1860	1880	1900
20	QPSK	1	0	22.03	22.05	22.02	0.1710	0.1718	0.1706
20	QPSK	1	49	21.97	21.99	21.94	0.1687	0.1694	0.1675
20	QPSK	1	99	21.89	21.92	21.88	0.1656	0.1667	0.1652
20	QPSK	50	0	21.20	21.32	21.29	0.1413	0.1452	0.1442
20	QPSK	50	24	21.15	21.20	21.25	0.1396	0.1413	0.1429
20	QPSK	50	50	21.11	21.21	21.23	0.1384	0.1416	0.1422
20	QPSK	100	0	21.18	21.27	21.15	0.1406	0.1435	0.1396
20	16QAM	1	0	21.13	21.20	21.15	0.1390	0.1413	0.1396
20	16QAM	1	49	21.10	21.23	21.20	0.1380	0.1422	0.1413
20	16QAM	1	99	21.13	21.23	21.23	0.1390	0.1422	0.1422
20	16QAM	50	0	20.23	20.29	20.22	0.1130	0.1146	0.1127
20	16QAM	50	24	20.12	20.19	20.14	0.1102	0.1119	0.1107
20	16QAM	50	50	20.18	20.15	20.08	0.1117	0.1109	0.1091
20	16QAM	100	0	20.09	20.22	20.11	0.1094	0.1127	0.1099
20	64QAM	1	0	20.05	20.15	20.06	0.1084	0.1109	0.1086
20	64QAM	1	49	20.02	20.09	19.93	0.1076	0.1094	0.1054
20	64QAM	1	99	19.99	20.04	20.00	0.1069	0.1081	0.1072
20	64QAM	50	0	19.21	19.36	19.23	0.0893	0.0925	0.0897
20	64QAM	50	24	19.16	19.22	19.20	0.0883	0.0895	0.0891
20	64QAM	50	50	19.13	19.21	19.19	0.0877	0.0893	0.0889
20	64QAM	100	0	19.10	19.28	19.18	0.0871	0.0908	0.0887
Channel				18675	18900	19125	18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5	1857.5	1880	1902.5
15	QPSK	1	0	21.90	21.92	21.96	0.1660	0.1667	0.1683
15	QPSK	1	37	21.91	21.94	21.81	0.1663	0.1675	0.1626
15	QPSK	1	74	21.82	21.86	21.75	0.1629	0.1644	0.1603
15	QPSK	36	0	21.08	21.18	21.16	0.1374	0.1406	0.1400
15	QPSK	36	20	21.12	21.13	21.14	0.1387	0.1390	0.1393
15	QPSK	36	39	20.99	21.09	21.16	0.1346	0.1377	0.1400
15	QPSK	75	0	21.14	21.13	21.04	0.1393	0.1390	0.1361
15	16QAM	1	0	21.05	21.13	21.00	0.1365	0.1390	0.1349
15	16QAM	1	37	21.02	21.16	21.11	0.1355	0.1400	0.1384
15	16QAM	1	74	20.99	21.09	21.09	0.1346	0.1377	0.1377
15	16QAM	36	0	20.11	20.23	20.09	0.1099	0.1130	0.1094
15	16QAM	36	20	20.04	20.12	20.03	0.1081	0.1102	0.1079



15	16QAM	36	39	20.12	20.11	20.00	0.1102	0.1099	0.1072
15	16QAM	75	0	20.01	20.15	19.98	0.1074	0.1109	0.1067
15	64QAM	1	0	19.93	20.06	20.00	0.1054	0.1086	0.1072
15	64QAM	1	37	19.94	20.04	19.83	0.1057	0.1081	0.1030
15	64QAM	1	74	19.88	19.98	19.88	0.1042	0.1067	0.1042
15	64QAM	36	0	19.12	19.25	19.15	0.0875	0.0902	0.0881
15	64QAM	36	20	19.11	19.11	19.06	0.0873	0.0873	0.0863
15	64QAM	36	39	19.05	19.16	19.05	0.0861	0.0883	0.0861
15	64QAM	75	0	19.01	19.24	19.05	0.0853	0.0899	0.0861
Channel				18650	18900	19150	18650	18900	19150
Frequency (MHz)				1855	1880	1905	1855	1880	1905
10	QPSK	1	0	21.96	21.97	21.88	0.1683	0.1687	0.1652
10	QPSK	1	25	21.82	21.86	21.81	0.1629	0.1644	0.1626
10	QPSK	1	49	21.76	21.82	21.85	0.1607	0.1629	0.1641
10	QPSK	25	0	21.07	21.21	21.24	0.1371	0.1416	0.1426
10	QPSK	25	12	21.01	21.15	21.16	0.1352	0.1396	0.1400
10	QPSK	25	25	20.97	21.17	21.15	0.1340	0.1403	0.1396
10	QPSK	50	0	21.09	21.18	21.01	0.1377	0.1406	0.1352
10	16QAM	1	0	21.02	21.12	21.08	0.1355	0.1387	0.1374
10	16QAM	1	25	20.99	21.13	21.09	0.1346	0.1390	0.1377
10	16QAM	1	49	21.02	21.11	21.19	0.1355	0.1384	0.1409
10	16QAM	25	0	20.17	20.25	20.18	0.1114	0.1135	0.1117
10	16QAM	25	12	19.99	20.16	20.02	0.1069	0.1112	0.1076
10	16QAM	25	25	20.11	20.01	20.05	0.1099	0.1074	0.1084
10	16QAM	50	0	20.03	20.17	19.97	0.1079	0.1114	0.1064
10	64QAM	1	0	19.98	20.11	19.98	0.1067	0.1099	0.1067
10	64QAM	1	25	19.94	20.00	19.80	0.1057	0.1072	0.1023
10	64QAM	1	49	19.90	19.97	19.90	0.1047	0.1064	0.1047
10	64QAM	25	0	19.07	19.33	19.15	0.0865	0.0918	0.0881
10	64QAM	25	12	19.01	19.16	19.08	0.0853	0.0883	0.0867
10	64QAM	25	25	19.01	19.14	19.12	0.0853	0.0879	0.0875
10	64QAM	50	0	18.98	19.23	19.04	0.0847	0.0897	0.0859
Channel				18625	18900	19175	18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5	1852.5	1880	1907.5
5	QPSK	1	0	21.92	21.91	21.93	0.1667	0.1663	0.1671
5	QPSK	1	12	21.91	21.86	21.80	0.1663	0.1644	0.1622
5	QPSK	1	24	21.84	21.83	21.82	0.1637	0.1633	0.1629
5	QPSK	12	0	21.15	21.24	21.19	0.1396	0.1426	0.1409
5	QPSK	12	7	21.06	21.15	21.10	0.1368	0.1396	0.1380
5	QPSK	12	13	20.99	21.10	21.17	0.1346	0.1380	0.1403
5	QPSK	25	0	21.13	21.23	21.02	0.1390	0.1422	0.1355
5	16QAM	1	0	21.07	21.10	21.10	0.1371	0.1380	0.1380
5	16QAM	1	12	21.01	21.12	21.11	0.1352	0.1387	0.1384
5	16QAM	1	24	20.99	21.12	21.12	0.1346	0.1387	0.1387
5	16QAM	12	0	20.14	20.24	20.10	0.1107	0.1132	0.1096
5	16QAM	12	7	20.04	20.05	20.11	0.1081	0.1084	0.1099
5	16QAM	12	13	20.10	20.09	19.99	0.1096	0.1094	0.1069
5	16QAM	25	0	19.97	20.08	19.97	0.1064	0.1091	0.1064
5	64QAM	1	0	19.98	20.03	19.98	0.1067	0.1079	0.1067
5	64QAM	1	12	19.97	20.02	19.80	0.1064	0.1076	0.1023



5	64QAM	1	24	19.85	19.94	19.93	0.1035	0.1057	0.1054
5	64QAM	12	0	19.18	19.32	19.19	0.0887	0.0916	0.0889
5	64QAM	12	7	19.12	19.16	19.06	0.0875	0.0883	0.0863
5	64QAM	12	13	19.07	19.06	19.08	0.0865	0.0863	0.0867
5	64QAM	25	0	18.99	19.18	19.07	0.0849	0.0887	0.0865
Channel				18615	18900	19185	18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5	1851.5	1880	1908.5
3	QPSK	1	0	21.95	21.90	21.91	0.1679	0.1660	0.1663
3	QPSK	1	8	21.82	21.93	21.83	0.1629	0.1671	0.1633
3	QPSK	1	14	21.79	21.79	21.77	0.1618	0.1618	0.1611
3	QPSK	8	0	21.06	21.17	21.20	0.1368	0.1403	0.1413
3	QPSK	8	4	21.01	21.17	21.14	0.1352	0.1403	0.1393
3	QPSK	8	7	21.06	21.09	21.13	0.1368	0.1377	0.1390
3	QPSK	15	0	21.06	21.21	21.05	0.1368	0.1416	0.1365
3	16QAM	1	0	21.01	21.11	21.09	0.1352	0.1384	0.1377
3	16QAM	1	8	21.03	21.19	21.13	0.1358	0.1409	0.1390
3	16QAM	1	14	21.07	21.11	21.10	0.1371	0.1384	0.1380
3	16QAM	8	0	20.19	20.20	20.11	0.1119	0.1122	0.1099
3	16QAM	8	4	19.98	20.11	20.10	0.1067	0.1099	0.1096
3	16QAM	8	7	20.04	20.06	19.95	0.1081	0.1086	0.1059
3	16QAM	15	0	20.06	20.15	19.97	0.1086	0.1109	0.1064
3	64QAM	1	0	19.92	20.05	20.00	0.1052	0.1084	0.1072
3	64QAM	1	8	19.98	19.96	19.84	0.1067	0.1062	0.1033
3	64QAM	1	14	19.88	19.93	19.90	0.1042	0.1054	0.1047
3	64QAM	8	0	19.17	19.32	19.16	0.0885	0.0916	0.0883
3	64QAM	8	4	19.09	19.11	19.06	0.0869	0.0873	0.0863
3	64QAM	8	7	18.98	19.12	19.08	0.0847	0.0875	0.0867
3	64QAM	15	0	18.95	19.23	19.08	0.0841	0.0897	0.0867
Channel				18607	18900	19193	18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3	1850.7	1880	1909.3
1.4	QPSK	1	0	21.91	21.96	21.96	0.1663	0.1683	0.1683
1.4	QPSK	1	3	21.90	21.85	21.84	0.1660	0.1641	0.1637
1.4	QPSK	1	5	21.78	21.80	21.75	0.1614	0.1622	0.1603
1.4	QPSK	3	0	21.94	21.93	21.99	0.1675	0.1671	0.1694
1.4	QPSK	3	1	21.86	21.96	21.90	0.1644	0.1683	0.1660
1.4	QPSK	3	3	21.75	21.86	21.79	0.1603	0.1644	0.1618
1.4	QPSK	6	0	21.14	21.20	21.25	0.1393	0.1413	0.1429
1.4	16QAM	1	0	21.07	21.12	21.19	0.1371	0.1387	0.1409
1.4	16QAM	1	3	20.98	21.11	21.12	0.1343	0.1384	0.1387
1.4	16QAM	1	5	21.05	21.16	21.06	0.1365	0.1400	0.1368
1.4	16QAM	3	0	21.00	21.08	21.05	0.1349	0.1374	0.1365
1.4	16QAM	3	1	20.95	21.17	21.16	0.1334	0.1403	0.1400
1.4	16QAM	3	3	20.99	21.14	21.12	0.1346	0.1393	0.1387
1.4	16QAM	6	0	20.17	20.25	20.18	0.1114	0.1135	0.1117
1.4	64QAM	1	0	19.99	20.12	20.04	0.1069	0.1102	0.1081
1.4	64QAM	1	3	20.05	20.09	19.96	0.1084	0.1094	0.1062
1.4	64QAM	1	5	20.03	20.16	20.00	0.1079	0.1112	0.1072
1.4	64QAM	3	0	19.99	20.09	19.93	0.1069	0.1094	0.1054
1.4	64QAM	3	1	19.96	20.04	19.89	0.1062	0.1081	0.1045
1.4	64QAM	3	3	19.95	20.05	19.91	0.1059	0.1084	0.1050



1.4	64QAM	6	0	19.06	19.16	19.06	0.0863	0.0883	0.0863
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LTE Band 4:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP	EIRP	EIRP
Channel				20050	20175	20300	20050	20175	20300
Frequency (MHz)				1720	1732.5	1745	1720	1732.5	1745
20	QPSK	1	0	21.95	22.08	21.94	0.1429	0.1472	0.1426
20	QPSK	1	49	21.84	22.04	21.80	0.1393	0.1459	0.1380
20	QPSK	1	99	21.83	22.02	21.87	0.1390	0.1452	0.1403
20	QPSK	50	0	21.24	21.32	21.21	0.1213	0.1236	0.1205
20	QPSK	50	24	21.20	21.18	21.06	0.1202	0.1197	0.1164
20	QPSK	50	50	21.10	21.28	21.17	0.1175	0.1225	0.1194
20	QPSK	100	0	21.16	21.25	21.16	0.1191	0.1216	0.1191
20	16QAM	1	0	21.13	21.27	21.20	0.1183	0.1222	0.1202
20	16QAM	1	49	21.14	21.22	21.12	0.1186	0.1208	0.1180
20	16QAM	1	99	21.17	21.23	21.07	0.1194	0.1211	0.1167
20	16QAM	50	0	20.32	20.36	20.24	0.0982	0.0991	0.0964
20	16QAM	50	24	20.23	20.30	20.13	0.0962	0.0977	0.0940
20	16QAM	50	50	20.27	20.23	20.14	0.0971	0.0962	0.0942
20	16QAM	100	0	20.19	20.32	20.11	0.0953	0.0982	0.0935
20	64QAM	1	0	20.14	20.23	20.08	0.0942	0.0962	0.0929
20	64QAM	1	49	20.14	20.23	20.08	0.0942	0.0962	0.0929
20	64QAM	1	99	20.14	20.23	20.08	0.0942	0.0962	0.0929
20	64QAM	50	0	19.13	19.25	19.14	0.0746	0.0767	0.0748
20	64QAM	50	24	19.09	19.10	19.07	0.0740	0.0741	0.0736
20	64QAM	50	50	19.07	19.21	19.04	0.0736	0.0760	0.0731
20	64QAM	100	0	19.05	19.14	19.05	0.0733	0.0748	0.0733
Channel				20025	20175	20325	20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5	1717.5	1732.5	1747.5
15	QPSK	1	0	21.91	22.00	21.89	0.1416	0.1445	0.1409
15	QPSK	1	37	21.91	21.94	21.90	0.1416	0.1426	0.1413
15	QPSK	1	74	21.75	21.84	21.84	0.1365	0.1393	0.1393
15	QPSK	36	0	21.12	21.25	21.22	0.1180	0.1216	0.1208
15	QPSK	36	20	21.03	21.10	21.19	0.1156	0.1175	0.1199
15	QPSK	36	39	21.00	21.06	21.10	0.1148	0.1164	0.1175
15	QPSK	75	0	21.13	21.17	21.07	0.1183	0.1194	0.1167
15	16QAM	1	0	21.00	21.12	21.10	0.1148	0.1180	0.1175
15	16QAM	1	37	21.04	21.10	21.08	0.1159	0.1175	0.1169
15	16QAM	1	74	21.02	21.19	21.19	0.1153	0.1199	0.1199
15	16QAM	36	0	20.09	20.19	20.17	0.0931	0.0953	0.0948
15	16QAM	36	20	19.99	20.08	20.06	0.0910	0.0929	0.0925
15	16QAM	36	39	20.04	20.10	20.01	0.0920	0.0933	0.0914
15	16QAM	75	0	20.01	20.13	20.03	0.0914	0.0940	0.0918
15	64QAM	1	0	19.98	20.03	19.98	0.0908	0.0918	0.0908
15	64QAM	1	37	19.98	20.00	19.85	0.0908	0.0912	0.0881
15	64QAM	1	74	19.85	19.97	19.89	0.0881	0.0906	0.0889
15	64QAM	36	0	19.06	19.26	19.13	0.0735	0.0769	0.0746
15	64QAM	36	20	19.05	19.13	19.16	0.0733	0.0746	0.0752



15	64QAM	36	39	19.08	19.14	19.12	0.0738	0.0748	0.0745
15	64QAM	75	0	19.06	19.23	19.09	0.0735	0.0764	0.0740
Channel				20000	20175	20350	20000	20175	20350
Frequency (MHz)				1715	1732.5	1750	1715	1732.5	1750
10	QPSK	1	0	21.92	21.91	21.90	0.1419	0.1416	0.1413
10	QPSK	1	25	21.86	21.87	21.80	0.1400	0.1403	0.1380
10	QPSK	1	49	21.83	21.82	21.78	0.1390	0.1387	0.1374
10	QPSK	25	0	21.09	21.28	21.18	0.1172	0.1225	0.1197
10	QPSK	25	12	21.01	21.16	21.10	0.1151	0.1191	0.1175
10	QPSK	25	25	21.01	21.13	21.15	0.1151	0.1183	0.1189
10	QPSK	50	0	21.15	21.18	21.02	0.1189	0.1197	0.1153
10	16QAM	1	0	21.07	21.07	21.06	0.1167	0.1167	0.1164
10	16QAM	1	25	20.99	21.10	21.12	0.1146	0.1175	0.1180
10	16QAM	1	49	20.99	21.16	21.12	0.1146	0.1191	0.1180
10	16QAM	25	0	20.12	20.23	20.16	0.0938	0.0962	0.0946
10	16QAM	25	12	20.08	20.08	20.04	0.0929	0.0929	0.0920
10	16QAM	25	25	20.06	20.07	20.05	0.0925	0.0927	0.0923
10	16QAM	50	0	20.02	20.18	20.02	0.0916	0.0951	0.0916
10	64QAM	1	0	19.97	20.03	20.00	0.0906	0.0918	0.0912
10	64QAM	1	25	19.96	20.02	19.82	0.0904	0.0916	0.0875
10	64QAM	1	49	19.93	20.01	19.90	0.0897	0.0914	0.0891
10	64QAM	25	0	19.09	19.22	19.16	0.0740	0.0762	0.0752
10	64QAM	25	12	19.04	19.17	19.09	0.0731	0.0753	0.0740
10	64QAM	25	25	19.07	19.09	19.14	0.0736	0.0740	0.0748
10	64QAM	50	0	19.00	19.23	19.14	0.0724	0.0764	0.0748
Channel				19975	20175	20375	19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5	1712.5	1732.5	1752.5
5	QPSK	1	0	21.93	22.01	21.94	0.1422	0.1449	0.1426
5	QPSK	1	12	21.84	21.93	21.82	0.1393	0.1422	0.1387
5	QPSK	1	24	21.79	21.86	21.80	0.1377	0.1400	0.1380
5	QPSK	12	0	21.13	21.26	21.15	0.1183	0.1219	0.1189
5	QPSK	12	7	21.07	21.07	21.13	0.1167	0.1167	0.1183
5	QPSK	12	13	21.05	21.13	21.11	0.1161	0.1183	0.1178
5	QPSK	25	0	21.10	21.13	21.08	0.1175	0.1183	0.1169
5	16QAM	1	0	21.09	21.16	21.12	0.1172	0.1191	0.1180
5	16QAM	1	12	20.98	21.16	21.10	0.1143	0.1191	0.1175
5	16QAM	1	24	21.03	21.20	21.10	0.1156	0.1202	0.1175
5	16QAM	12	0	20.13	20.19	20.14	0.0940	0.0953	0.0942
5	16QAM	12	7	20.07	20.05	20.01	0.0927	0.0923	0.0914
5	16QAM	12	13	20.15	20.02	20.03	0.0944	0.0916	0.0918
5	16QAM	25	0	19.99	20.10	19.99	0.0910	0.0933	0.0910
5	64QAM	1	0	20.00	20.12	19.98	0.0912	0.0938	0.0908
5	64QAM	1	12	19.91	19.95	19.78	0.0893	0.0902	0.0867
5	64QAM	1	24	19.86	19.96	19.87	0.0883	0.0904	0.0885
5	64QAM	12	0	19.10	19.23	19.17	0.0741	0.0764	0.0753
5	64QAM	12	7	19.06	19.15	19.10	0.0735	0.0750	0.0741
5	64QAM	12	13	19.08	19.11	19.08	0.0738	0.0743	0.0738
5	64QAM	25	0	19.06	19.18	19.05	0.0735	0.0755	0.0733
Channel				19965	20175	20385	19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5	1711.5	1732.5	1753.5



3	QPSK	1	0	21.90	21.92	21.92	0.1413	0.1419	0.1419
3	QPSK	1	8	21.92	21.90	21.87	0.1419	0.1413	0.1403
3	QPSK	1	14	21.75	21.77	21.83	0.1365	0.1371	0.1390
3	QPSK	8	0	21.15	21.19	21.21	0.1189	0.1199	0.1205
3	QPSK	8	4	21.05	21.07	21.20	0.1161	0.1167	0.1202
3	QPSK	8	7	21.06	21.15	21.20	0.1164	0.1189	0.1202
3	QPSK	15	0	21.08	21.17	21.03	0.1169	0.1194	0.1156
3	16QAM	1	0	21.01	21.15	21.07	0.1151	0.1189	0.1167
3	16QAM	1	8	21.02	21.12	21.10	0.1153	0.1180	0.1175
3	16QAM	1	14	21.09	21.13	21.10	0.1172	0.1183	0.1175
3	16QAM	8	0	20.18	20.24	20.13	0.0951	0.0964	0.0940
3	16QAM	8	4	20.03	20.15	20.02	0.0918	0.0944	0.0916
3	16QAM	8	7	20.03	20.07	19.99	0.0918	0.0927	0.0910
3	16QAM	15	0	19.96	20.14	19.96	0.0904	0.0942	0.0904
3	64QAM	1	0	19.92	20.10	19.97	0.0895	0.0933	0.0906
3	64QAM	1	8	19.90	20.02	19.84	0.0891	0.0916	0.0879
3	64QAM	1	14	19.87	19.99	19.94	0.0885	0.0910	0.0899
3	64QAM	8	0	19.09	19.31	19.20	0.0740	0.0778	0.0759
3	64QAM	8	4	19.06	19.19	19.06	0.0735	0.0757	0.0735
3	64QAM	8	7	19.06	19.09	19.09	0.0735	0.0740	0.0740
3	64QAM	15	0	19.02	19.20	19.09	0.0728	0.0759	0.0740
Channel				19957	20175	20393	19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3	1710.7	1732.5	1754.3
1.4	QPSK	1	0	21.79	21.86	21.89	0.1377	0.1400	0.1409
1.4	QPSK	1	3	21.83	21.79	21.71	0.1390	0.1377	0.1352
1.4	QPSK	1	5	21.68	21.73	21.72	0.1343	0.1358	0.1355
1.4	QPSK	3	0	21.89	21.80	21.91	0.1409	0.1380	0.1416
1.4	QPSK	3	1	21.77	21.86	21.76	0.1371	0.1400	0.1368
1.4	QPSK	3	3	21.69	21.71	21.74	0.1346	0.1352	0.1361
1.4	QPSK	6	0	21.06	21.16	21.17	0.1164	0.1191	0.1194
1.4	16QAM	1	0	21.02	21.02	21.12	0.1153	0.1153	0.1180
1.4	16QAM	1	3	20.86	21.07	21.07	0.1112	0.1167	0.1167
1.4	16QAM	1	5	21.01	21.12	20.92	0.1151	0.1180	0.1127
1.4	16QAM	3	0	20.93	21.01	20.97	0.1130	0.1151	0.1140
1.4	16QAM	3	1	20.84	21.14	21.02	0.1107	0.1186	0.1153
1.4	16QAM	3	3	20.96	21.01	20.99	0.1138	0.1151	0.1146
1.4	16QAM	6	0	20.14	20.17	20.08	0.0942	0.0948	0.0929
1.4	64QAM	1	0	19.88	19.99	19.98	0.0887	0.0910	0.0908
1.4	64QAM	1	3	19.99	20.05	19.84	0.0910	0.0923	0.0879
1.4	64QAM	1	5	19.89	20.02	19.87	0.0889	0.0916	0.0885
1.4	64QAM	3	0	19.92	20.01	19.79	0.0895	0.0914	0.0869
1.4	64QAM	3	1	19.82	19.96	19.80	0.0875	0.0904	0.0871
1.4	64QAM	3	3	19.83	19.91	19.83	0.0877	0.0893	0.0877
1.4	64QAM	6	0	19.02	19.10	18.96	0.0728	0.0741	0.0718



LTE Band 5:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP	ERP	ERP
Channel				20450	20525	20600	20450	20525	20600
Frequency (MHz)				829	836.5	844	829	836.5	844
10	QPSK	1	0	22.01	22.02	21.98	0.0570	0.0571	0.0566
10	QPSK	1	25	21.87	21.93	21.83	0.0552	0.0560	0.0547
10	QPSK	1	49	21.94	21.88	21.89	0.0561	0.0553	0.0555
10	QPSK	25	0	21.04	21.12	21.02	0.0456	0.0465	0.0454
10	QPSK	25	12	20.89	21.08	20.89	0.0441	0.0460	0.0441
10	QPSK	25	25	20.96	21.01	20.89	0.0448	0.0453	0.0441
10	QPSK	50	0	21.01	21.08	21.00	0.0453	0.0460	0.0452
10	16QAM	1	0	21.14	21.24	21.14	0.0467	0.0478	0.0467
10	16QAM	1	25	20.94	21.05	20.91	0.0446	0.0457	0.0443
10	16QAM	1	49	20.95	20.97	20.99	0.0447	0.0449	0.0451
10	16QAM	25	0	20.09	20.13	20.09	0.0366	0.0370	0.0366
10	16QAM	25	12	20.05	20.01	20.01	0.0363	0.0360	0.0360
10	16QAM	25	25	19.94	20.04	19.94	0.0354	0.0362	0.0354
10	16QAM	50	0	20.05	20.02	19.98	0.0363	0.0361	0.0357
10	64QAM	1	0	20.06	20.10	20.06	0.0364	0.0367	0.0364
10	64QAM	1	25	19.97	20.03	20.01	0.0356	0.0361	0.0360
10	64QAM	1	49	20.03	20.00	19.99	0.0361	0.0359	0.0358
10	64QAM	25	0	19.12	19.16	19.03	0.0293	0.0296	0.0287
10	64QAM	25	12	19.00	19.06	18.88	0.0285	0.0289	0.0277
10	64QAM	25	25	19.07	19.01	18.97	0.0290	0.0286	0.0283
10	64QAM	50	0	19.04	19.06	18.96	0.0288	0.0289	0.0282
Channel				20425	20525	20625	20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5	826.5	836.5	846.5
5	QPSK	1	0	21.92	21.97	21.93	0.0558	0.0565	0.0560
5	QPSK	1	12	21.84	21.88	21.75	0.0548	0.0553	0.0537
5	QPSK	1	24	21.91	21.81	21.78	0.0557	0.0545	0.0541
5	QPSK	12	0	20.98	21.07	20.99	0.0450	0.0459	0.0451
5	QPSK	12	7	20.76	20.99	20.85	0.0428	0.0451	0.0437
5	QPSK	12	13	20.89	20.98	20.75	0.0441	0.0450	0.0427
5	QPSK	25	0	20.90	21.04	20.93	0.0442	0.0456	0.0445
5	16QAM	1	0	21.04	21.18	21.01	0.0456	0.0471	0.0453
5	16QAM	1	12	20.89	20.96	20.77	0.0441	0.0448	0.0429
5	16QAM	1	24	20.84	20.82	20.93	0.0436	0.0434	0.0445
5	16QAM	12	0	19.99	20.05	19.96	0.0358	0.0363	0.0356
5	16QAM	12	7	20.00	19.96	19.88	0.0359	0.0356	0.0349
5	16QAM	12	13	19.84	19.91	19.88	0.0346	0.0352	0.0349
5	16QAM	25	0	19.98	19.88	19.91	0.0357	0.0349	0.0352
5	64QAM	1	0	19.93	20.07	20.00	0.0353	0.0365	0.0359
5	64QAM	1	12	19.94	19.89	19.91	0.0354	0.0350	0.0352
5	64QAM	1	24	19.88	19.93	19.88	0.0349	0.0353	0.0349
5	64QAM	12	0	19.09	19.04	18.96	0.0291	0.0288	0.0282
5	64QAM	12	7	18.89	19.00	18.84	0.0278	0.0285	0.0275
5	64QAM	12	13	19.00	18.90	18.90	0.0285	0.0279	0.0279
5	64QAM	25	0	18.99	18.91	18.89	0.0284	0.0279	0.0278



Channel				20415	20525	20635	20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5	825.5	836.5	847.5
3	QPSK	1	0	21.88	21.95	21.89	0.0553	0.0562	0.0555
3	QPSK	1	8	21.79	21.82	21.70	0.0542	0.0546	0.0531
3	QPSK	1	14	21.91	21.79	21.75	0.0557	0.0542	0.0537
3	QPSK	8	0	20.96	21.00	20.92	0.0448	0.0452	0.0444
3	QPSK	8	4	20.75	20.98	20.81	0.0427	0.0450	0.0433
3	QPSK	8	7	20.86	20.95	20.76	0.0438	0.0447	0.0428
3	QPSK	15	0	20.91	20.96	20.95	0.0443	0.0448	0.0447
3	16QAM	1	0	21.02	21.17	21.11	0.0454	0.0470	0.0463
3	16QAM	1	8	20.80	20.99	20.78	0.0432	0.0451	0.0430
3	16QAM	1	14	20.86	20.87	20.90	0.0438	0.0439	0.0442
3	16QAM	8	0	20.06	20.03	19.99	0.0364	0.0361	0.0358
3	16QAM	8	4	19.91	19.86	19.91	0.0352	0.0348	0.0352
3	16QAM	8	7	19.86	19.95	19.84	0.0348	0.0355	0.0346
3	16QAM	15	0	19.99	19.97	19.89	0.0358	0.0356	0.0350
3	64QAM	1	0	19.98	20.01	19.98	0.0357	0.0360	0.0357
3	64QAM	1	8	19.92	19.95	19.95	0.0352	0.0355	0.0355
3	64QAM	1	14	19.94	19.93	19.87	0.0354	0.0353	0.0348
3	64QAM	8	0	19.04	19.12	18.94	0.0288	0.0293	0.0281
3	64QAM	8	4	18.90	18.97	18.84	0.0279	0.0283	0.0275
3	64QAM	8	7	19.02	18.91	18.85	0.0286	0.0279	0.0275
3	64QAM	15	0	18.97	18.97	18.82	0.0283	0.0283	0.0274
Channel				20407	20525	20643	20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3	824.7	836.5	848.3
1.4	QPSK	1	0	21.86	21.86	21.84	0.0551	0.0551	0.0548
1.4	QPSK	1	3	21.77	21.70	21.71	0.0540	0.0531	0.0532
1.4	QPSK	1	5	21.65	21.67	21.64	0.0525	0.0527	0.0524
1.4	QPSK	3	0	21.86	21.84	21.95	0.0551	0.0548	0.0562
1.4	QPSK	3	1	21.77	21.86	21.80	0.0540	0.0551	0.0543
1.4	QPSK	3	3	21.61	21.79	21.75	0.0520	0.0542	0.0537
1.4	QPSK	6	0	21.09	21.05	21.10	0.0461	0.0457	0.0462
1.4	16QAM	1	0	20.99	21.01	21.13	0.0451	0.0453	0.0466
1.4	16QAM	1	3	20.87	20.99	21.09	0.0439	0.0451	0.0461
1.4	16QAM	1	5	20.91	21.07	20.95	0.0443	0.0459	0.0447
1.4	16QAM	3	0	20.92	20.95	20.93	0.0444	0.0447	0.0445
1.4	16QAM	3	1	20.82	21.04	21.11	0.0434	0.0456	0.0463
1.4	16QAM	3	3	20.89	21.00	21.04	0.0441	0.0452	0.0456
1.4	16QAM	6	0	20.08	20.21	20.12	0.0366	0.0377	0.0369
1.4	64QAM	1	0	19.87	20.01	19.94	0.0348	0.0360	0.0354
1.4	64QAM	1	3	19.92	20.04	19.90	0.0352	0.0362	0.0351
1.4	64QAM	1	5	19.91	20.07	19.97	0.0352	0.0365	0.0356
1.4	64QAM	3	0	19.90	19.97	19.86	0.0351	0.0356	0.0348
1.4	64QAM	3	1	19.85	19.98	19.82	0.0347	0.0357	0.0344
1.4	64QAM	3	3	19.81	19.96	19.85	0.0344	0.0356	0.0347
1.4	64QAM	6	0	18.92	19.05	19.01	0.0280	0.0288	0.0286



LTE Band 25:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP	EIRP	EIRP
Channel				26140	26340	26590	26140	26340	26590
Frequency (MHz)				1860	1880	1905	1860	1880	1905
20	QPSK	1	0	22.03	22.09	22.05	0.1710	0.1734	0.1718
20	QPSK	1	49	21.96	22.04	21.94	0.1683	0.1714	0.1675
20	QPSK	1	99	21.93	21.96	22.00	0.1671	0.1683	0.1698
20	QPSK	50	0	21.29	21.33	21.23	0.1442	0.1455	0.1422
20	QPSK	50	24	21.26	21.20	21.15	0.1432	0.1413	0.1396
20	QPSK	50	50	21.26	21.30	21.14	0.1432	0.1445	0.1393
20	QPSK	100	0	21.23	21.30	21.22	0.1422	0.1445	0.1419
20	16QAM	1	0	21.08	21.19	21.07	0.1374	0.1409	0.1371
20	16QAM	1	49	21.15	21.28	21.12	0.1396	0.1439	0.1387
20	16QAM	1	99	21.24	21.26	21.18	0.1426	0.1432	0.1406
20	16QAM	50	0	20.25	20.33	20.20	0.1135	0.1156	0.1122
20	16QAM	50	24	20.16	20.25	20.10	0.1112	0.1135	0.1096
20	16QAM	50	50	20.17	20.23	20.05	0.1114	0.1130	0.1084
20	16QAM	100	0	20.12	20.24	20.06	0.1102	0.1132	0.1086
20	64QAM	1	0	20.10	20.18	20.08	0.1096	0.1117	0.1091
20	64QAM	1	49	20.14	20.25	20.12	0.1107	0.1135	0.1102
20	64QAM	1	99	20.15	20.28	20.12	0.1109	0.1143	0.1102
20	64QAM	50	0	19.32	19.39	19.34	0.0916	0.0931	0.0920
20	64QAM	50	24	19.26	19.27	19.30	0.0904	0.0906	0.0912
20	64QAM	50	50	19.27	19.31	19.31	0.0906	0.0914	0.0914
20	64QAM	100	0	19.24	19.29	19.22	0.0899	0.0910	0.0895
Channel				26115	26340	26615	26115	26340	26615
Frequency (MHz)				1857.5	1880	1907.5	1857.5	1880	1907.5
15	QPSK	1	0	21.91	22.02	22.00	0.1663	0.1706	0.1698
15	QPSK	1	37	21.91	22.00	21.86	0.1663	0.1698	0.1644
15	QPSK	1	74	21.86	21.88	21.90	0.1644	0.1652	0.1660
15	QPSK	36	0	21.24	21.26	21.09	0.1426	0.1432	0.1377
15	QPSK	36	20	21.22	21.05	21.04	0.1419	0.1365	0.1361
15	QPSK	36	39	21.15	21.24	21.09	0.1396	0.1426	0.1377
15	QPSK	75	0	21.12	21.18	21.13	0.1387	0.1406	0.1390
15	16QAM	1	0	21.01	21.06	20.95	0.1352	0.1368	0.1334
15	16QAM	1	37	21.09	21.19	21.04	0.1377	0.1409	0.1361
15	16QAM	1	74	21.10	21.13	21.11	0.1380	0.1390	0.1384
15	16QAM	36	0	20.11	20.23	20.13	0.1099	0.1130	0.1104
15	16QAM	36	20	20.03	20.22	20.05	0.1079	0.1127	0.1084
15	16QAM	36	39	20.04	20.13	19.95	0.1081	0.1104	0.1059
15	16QAM	75	0	20.09	20.11	20.00	0.1094	0.1099	0.1072
15	64QAM	1	0	19.98	20.14	20.01	0.1067	0.1107	0.1074
15	64QAM	1	37	20.10	20.21	20.02	0.1096	0.1125	0.1076
15	64QAM	1	74	20.05	20.20	20.01	0.1084	0.1122	0.1074
15	64QAM	36	0	19.23	19.32	19.27	0.0897	0.0916	0.0906
15	64QAM	36	20	19.14	19.15	19.22	0.0879	0.0881	0.0895
15	64QAM	36	39	19.17	19.28	19.22	0.0885	0.0908	0.0895
15	64QAM	75	0	19.09	19.14	19.17	0.0869	0.0879	0.0885



Channel				26090	26340	26640	26090	26340	26640
Frequency (MHz)				1855	1880	1910	1855	1880	1910
10	QPSK	1	0	21.91	21.99	21.91	0.1663	0.1694	0.1663
10	QPSK	1	25	21.87	21.92	21.85	0.1648	0.1667	0.1641
10	QPSK	1	49	21.81	21.87	21.85	0.1626	0.1648	0.1641
10	QPSK	25	0	21.25	21.20	21.09	0.1429	0.1413	0.1377
10	QPSK	25	12	21.22	21.08	21.06	0.1419	0.1374	0.1368
10	QPSK	25	25	21.16	21.24	21.06	0.1400	0.1426	0.1368
10	QPSK	50	0	21.12	21.17	21.10	0.1387	0.1403	0.1380
10	16QAM	1	0	20.97	21.14	20.98	0.1340	0.1393	0.1343
10	16QAM	1	25	21.06	21.21	21.05	0.1368	0.1416	0.1365
10	16QAM	1	49	21.12	21.16	21.05	0.1387	0.1400	0.1365
10	16QAM	25	0	20.21	20.26	20.16	0.1125	0.1138	0.1112
10	16QAM	25	12	20.07	20.13	19.96	0.1089	0.1104	0.1062
10	16QAM	25	25	20.10	20.13	19.99	0.1096	0.1104	0.1069
10	16QAM	50	0	20.02	20.14	19.98	0.1076	0.1107	0.1067
10	64QAM	1	0	20.05	20.04	20.03	0.1084	0.1081	0.1079
10	64QAM	1	25	20.07	20.14	19.98	0.1089	0.1107	0.1067
10	64QAM	1	49	20.01	20.19	20.02	0.1074	0.1119	0.1076
10	64QAM	25	0	19.28	19.33	19.23	0.0908	0.0918	0.0897
10	64QAM	25	12	19.19	19.13	19.21	0.0889	0.0877	0.0893
10	64QAM	25	25	19.21	19.27	19.22	0.0893	0.0906	0.0895
10	64QAM	50	0	19.20	19.14	19.15	0.0891	0.0879	0.0881
Channel				26065	26340	26665	26065	26340	26665
Frequency (MHz)				1852.5	1880	1912.5	1852.5	1880	1912.5
5	QPSK	1	0	21.95	21.97	22.02	0.1679	0.1687	0.1706
5	QPSK	1	12	21.91	21.94	21.88	0.1663	0.1675	0.1652
5	QPSK	1	24	21.78	21.83	21.96	0.1614	0.1633	0.1683
5	QPSK	12	0	21.22	21.21	21.19	0.1419	0.1416	0.1409
5	QPSK	12	7	21.17	21.09	21.11	0.1403	0.1377	0.1384
5	QPSK	12	13	21.18	21.25	21.02	0.1406	0.1429	0.1355
5	QPSK	25	0	21.08	21.25	21.08	0.1374	0.1429	0.1374
5	16QAM	1	0	21.00	21.15	21.00	0.1349	0.1396	0.1349
5	16QAM	1	12	21.10	21.19	21.01	0.1380	0.1409	0.1352
5	16QAM	1	24	21.13	21.14	21.07	0.1390	0.1393	0.1371
5	16QAM	12	0	20.13	20.20	20.09	0.1104	0.1122	0.1094
5	16QAM	12	7	20.11	20.20	19.97	0.1099	0.1122	0.1064
5	16QAM	12	13	20.12	20.16	19.98	0.1102	0.1112	0.1067
5	16QAM	25	0	20.03	20.20	19.96	0.1079	0.1122	0.1062
5	64QAM	1	0	19.99	20.11	20.02	0.1069	0.1099	0.1076
5	64QAM	1	12	20.01	20.14	20.03	0.1074	0.1107	0.1079
5	64QAM	1	24	20.06	20.14	20.08	0.1086	0.1107	0.1091
5	64QAM	12	0	19.23	19.35	19.21	0.0897	0.0923	0.0893
5	64QAM	12	7	19.21	19.14	19.21	0.0893	0.0879	0.0893
5	64QAM	12	13	19.16	19.27	19.18	0.0883	0.0906	0.0887
5	64QAM	25	0	19.11	19.15	19.07	0.0873	0.0881	0.0865
Channel				26055	26340	26675	26055	26340	26675
Frequency (MHz)				1851.5	1880	1913.5	1851.5	1880	1913.5
3	QPSK	1	0	21.90	22.03	21.91	0.1660	0.1710	0.1663
3	QPSK	1	8	21.81	22.01	21.88	0.1626	0.1702	0.1652



3	QPSK	1	14	21.79	21.83	21.91	0.1618	0.1633	0.1663
3	QPSK	8	0	21.16	21.29	21.12	0.1400	0.1442	0.1387
3	QPSK	8	4	21.23	21.14	21.08	0.1422	0.1393	0.1374
3	QPSK	8	7	21.21	21.23	21.01	0.1416	0.1422	0.1352
3	QPSK	15	0	21.13	21.26	21.15	0.1390	0.1432	0.1396
3	16QAM	1	0	20.96	21.15	21.03	0.1337	0.1396	0.1358
3	16QAM	1	8	21.00	21.15	21.04	0.1349	0.1396	0.1361
3	16QAM	1	14	21.14	21.20	21.07	0.1393	0.1413	0.1371
3	16QAM	8	0	20.14	20.21	20.15	0.1107	0.1125	0.1109
3	16QAM	8	4	20.05	20.21	20.00	0.1084	0.1125	0.1072
3	16QAM	8	7	20.13	20.18	19.92	0.1104	0.1117	0.1052
3	16QAM	15	0	20.05	20.16	19.99	0.1084	0.1112	0.1069
3	64QAM	1	0	20.02	20.14	19.96	0.1076	0.1107	0.1062
3	64QAM	1	8	19.99	20.21	20.06	0.1069	0.1125	0.1086
3	64QAM	1	14	20.06	20.22	20.03	0.1086	0.1127	0.1079
3	64QAM	8	0	19.28	19.34	19.25	0.0908	0.0920	0.0902
3	64QAM	8	4	19.17	19.23	19.25	0.0885	0.0897	0.0902
3	64QAM	8	7	19.18	19.20	19.16	0.0887	0.0891	0.0883
3	64QAM	15	0	19.21	19.22	19.12	0.0893	0.0895	0.0875
Channel				26047	26340	26683	26047	26340	26683
Frequency (MHz)				1850.7	1880	1914.3	1850.7	1880	1914.3
1.4	QPSK	1	0	21.80	21.88	21.99	0.1622	0.1652	0.1694
1.4	QPSK	1	3	21.96	21.80	21.68	0.1683	0.1622	0.1578
1.4	QPSK	1	5	21.62	21.78	21.80	0.1556	0.1614	0.1622
1.4	QPSK	3	0	21.87	21.82	21.88	0.1648	0.1629	0.1652
1.4	QPSK	3	1	21.77	21.88	21.76	0.1611	0.1652	0.1607
1.4	QPSK	3	3	21.70	21.68	21.81	0.1585	0.1578	0.1626
1.4	QPSK	6	0	21.09	21.22	21.18	0.1377	0.1419	0.1406
1.4	16QAM	1	0	21.11	21.04	21.04	0.1384	0.1361	0.1361
1.4	16QAM	1	3	20.79	21.03	21.06	0.1285	0.1358	0.1368
1.4	16QAM	1	5	21.02	21.17	21.01	0.1355	0.1403	0.1352
1.4	16QAM	3	0	20.94	20.98	21.01	0.1330	0.1343	0.1352
1.4	16QAM	3	1	20.90	21.17	21.01	0.1318	0.1403	0.1352
1.4	16QAM	3	3	21.06	21.09	20.97	0.1368	0.1377	0.1340
1.4	16QAM	6	0	20.24	20.28	20.11	0.1132	0.1143	0.1099
1.4	64QAM	1	0	19.91	19.98	19.96	0.1050	0.1067	0.1062
1.4	64QAM	1	3	20.04	20.15	19.86	0.1081	0.1109	0.1038
1.4	64QAM	1	5	20.00	19.97	19.92	0.1072	0.1064	0.1052
1.4	64QAM	3	0	20.00	20.04	19.82	0.1072	0.1081	0.1028
1.4	64QAM	3	1	19.74	19.95	19.92	0.1009	0.1059	0.1052
1.4	64QAM	3	3	19.82	19.86	19.86	0.1028	0.1038	0.1038
1.4	64QAM	6	0	19.04	19.18	19.00	0.0859	0.0887	0.0851



LTE Band 26:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP	ERP	ERP	ERP
Channel				26790	26865	26915	26965	26790	26865	26915	26965
Frequency (MHz)				824	831.5	836.5	841.5	824	831.5	836.5	841.5
15	QPSK	1	0	21.98	22.01	22.04	21.94	0.0566	0.0570	0.0574	0.0561
15	QPSK	1	37	21.85	21.92	21.92	21.85	0.0550	0.0558	0.0558	0.0550
15	QPSK	1	74	21.80	21.93	21.94	21.88	0.0543	0.0560	0.0561	0.0553
15	QPSK	36	0	21.00	21.04	21.10	21.04	0.0452	0.0456	0.0462	0.0456
15	QPSK	36	20	20.93	21.00	20.99	20.96	0.0445	0.0452	0.0451	0.0448
15	QPSK	36	39	20.85	20.93	21.01	20.96	0.0437	0.0445	0.0453	0.0448
15	QPSK	75	0	20.94	20.96	21.06	20.99	0.0446	0.0448	0.0458	0.0451
15	16QAM	1	0	21.14	21.19	21.25	21.21	0.0467	0.0472	0.0479	0.0474
15	16QAM	1	37	20.91	20.98	20.96	20.98	0.0443	0.0450	0.0448	0.0450
15	16QAM	1	74	20.76	20.89	21.02	20.94	0.0428	0.0441	0.0454	0.0446
15	16QAM	36	0	19.96	19.96	20.09	20.05	0.0356	0.0356	0.0366	0.0363
15	16QAM	36	20	19.86	19.93	19.96	20.02	0.0348	0.0353	0.0356	0.0361
15	16QAM	36	39	19.70	19.82	19.96	19.94	0.0335	0.0344	0.0356	0.0354
15	16QAM	75	0	19.72	19.88	19.96	19.96	0.0337	0.0349	0.0356	0.0356
15	64QAM	1	0	20.07	20.10	20.24	20.19	0.0365	0.0367	0.0379	0.0375
15	64QAM	1	37	19.71	19.86	20.00	19.93	0.0336	0.0348	0.0359	0.0353
15	64QAM	1	74	19.88	19.90	19.96	19.92	0.0349	0.0351	0.0356	0.0352
15	64QAM	36	0	19.00	19.03	19.16	19.07	0.0285	0.0287	0.0296	0.0290
15	64QAM	36	20	18.78	18.96	19.05	18.93	0.0271	0.0282	0.0288	0.0281
15	64QAM	36	39	18.96	18.99	19.01	18.94	0.0282	0.0284	0.0286	0.0281
15	64QAM	75	0	18.79	18.90	19.07	18.97	0.0272	0.0279	0.0290	0.0283
Channel				-	26840	26915	26990	-	26840	26915	26990
Frequency (MHz)				-	829	836.5	844	-	829	836.5	844
10	QPSK	1	0	-	21.98	21.98	21.87	-	0.0566	0.0566	0.0552
10	QPSK	1	25		21.88	21.83	21.79		0.0553	0.0547	0.0542
10	QPSK	1	49		21.82	21.81	21.75		0.0546	0.0545	0.0537
10	QPSK	25	0		20.92	21.02	20.98		0.0444	0.0454	0.0450
10	QPSK	25	12		20.97	20.85	20.83		0.0449	0.0437	0.0435
10	QPSK	25	25		20.89	20.92	20.89		0.0441	0.0444	0.0441
10	QPSK	50	0		20.85	21.02	20.96		0.0437	0.0454	0.0448
10	16QAM	1	0		21.11	21.21	21.12		0.0463	0.0474	0.0465
10	16QAM	1	25		20.86	20.82	20.95		0.0438	0.0434	0.0447
10	16QAM	1	49		20.79	20.88	20.83		0.0431	0.0440	0.0435
10	16QAM	25	0		19.84	19.98	19.93		0.0346	0.0357	0.0353
10	16QAM	25	12		19.84	19.91	19.98		0.0346	0.0352	0.0357
10	16QAM	25	25		19.69	19.89	19.81		0.0334	0.0350	0.0344
10	16QAM	50	0		19.78	19.82	19.84		0.0341	0.0344	0.0346
10	64QAM	1	0		20.02	20.20	20.07		0.0361	0.0376	0.0365
10	64QAM	1	25		19.82	19.89	19.88		0.0344	0.0350	0.0349
10	64QAM	1	49		19.86	19.85	19.80		0.0348	0.0347	0.0343
10	64QAM	25	0		18.94	19.12	18.96		0.0281	0.0293	0.0282
10	64QAM	25	12		18.90	18.98	18.86		0.0279	0.0284	0.0276
10	64QAM	25	25		18.88	18.92	18.80		0.0277	0.0280	0.0272
10	64QAM	50	0		18.81	18.93	18.93		0.0273	0.0281	0.0281



Channel				-	26815	26915	27015	-	26815	26915	27015
Frequency (MHz)				-	826.5	836.5	846.5	-	826.5	836.5	846.5
5	QPSK	1	0	-	21.94	21.94	21.80	-	0.0561	0.0561	0.0543
5	QPSK	1	12		21.77	21.79	21.81		0.0540	0.0542	0.0545
5	QPSK	1	24		21.81	21.83	21.76		0.0545	0.0547	0.0538
5	QPSK	12	0		20.93	21.03	20.97		0.0445	0.0455	0.0449
5	QPSK	12	7		20.87	20.92	20.84		0.0439	0.0444	0.0436
5	QPSK	12	13		20.80	20.93	20.83		0.0432	0.0445	0.0435
5	QPSK	25	0		20.90	20.99	20.86		0.0442	0.0451	0.0438
5	16QAM	1	0		21.16	21.19	21.13		0.0469	0.0472	0.0466
5	16QAM	1	12		20.86	20.84	20.95		0.0438	0.0436	0.0447
5	16QAM	1	24		20.81	20.94	20.83		0.0433	0.0446	0.0435
5	16QAM	12	0		19.82	20.03	19.96		0.0344	0.0361	0.0356
5	16QAM	12	7		19.85	19.83	19.96		0.0347	0.0345	0.0356
5	16QAM	12	13		19.78	19.93	19.80		0.0341	0.0353	0.0343
5	16QAM	25	0		19.76	19.87	19.85		0.0340	0.0348	0.0347
5	64QAM	1	0		20.04	20.09	20.07		0.0362	0.0366	0.0365
5	64QAM	1	12		19.80	19.91	19.87		0.0343	0.0352	0.0348
5	64QAM	1	24		19.87	19.91	19.79		0.0348	0.0352	0.0342
5	64QAM	12	0		18.91	19.07	18.96		0.0279	0.0290	0.0282
5	64QAM	12	7		18.88	18.94	18.80		0.0277	0.0281	0.0272
5	64QAM	12	13		18.90	18.96	18.83		0.0279	0.0282	0.0274
5	64QAM	25	0		18.77	19.03	18.83		0.0270	0.0287	0.0274
Channel				-	26815	26915	27025	-	26815	26915	27025
Frequency (MHz)				-	825.5	836.5	847.5	-	825.5	836.5	847.5
3	QPSK	1	0	-	21.87	22.00	21.80	-	0.0552	0.0569	0.0543
3	QPSK	1	8		21.84	21.86	21.70		0.0548	0.0551	0.0531
3	QPSK	1	14		21.82	21.80	21.76		0.0546	0.0543	0.0538
3	QPSK	8	0		20.98	20.99	20.99		0.0450	0.0451	0.0451
3	QPSK	8	4		20.87	20.88	20.90		0.0439	0.0440	0.0442
3	QPSK	8	7		20.87	20.91	20.89		0.0439	0.0443	0.0441
3	QPSK	15	0		20.93	20.98	20.87		0.0445	0.0450	0.0439
3	16QAM	1	0		21.11	21.21	21.09		0.0463	0.0474	0.0461
3	16QAM	1	8		20.83	20.88	20.91		0.0435	0.0440	0.0443
3	16QAM	1	14		20.79	20.92	20.83		0.0431	0.0444	0.0435
3	16QAM	8	0		19.92	19.98	19.94		0.0352	0.0357	0.0354
3	16QAM	8	4		19.87	19.85	19.96		0.0348	0.0347	0.0356
3	16QAM	8	7		19.74	19.93	19.81		0.0338	0.0353	0.0344
3	16QAM	15	0		19.74	19.90	19.92		0.0338	0.0351	0.0352
3	64QAM	1	0		20.00	20.18	20.10		0.0359	0.0374	0.0367
3	64QAM	1	8		19.73	19.88	19.82		0.0337	0.0349	0.0344
3	64QAM	1	14		19.84	19.90	19.86		0.0346	0.0351	0.0348
3	64QAM	8	0		18.96	19.09	19.02		0.0282	0.0291	0.0286
3	64QAM	8	4		18.85	18.96	18.86		0.0275	0.0282	0.0276
3	64QAM	8	7		18.86	18.96	18.89		0.0276	0.0282	0.0278
3	64QAM	15	0		18.86	19.03	18.87		0.0276	0.0287	0.0277
Channel				-	26797	26915	27033	-	26797	26915	27033
Frequency (MHz)				-	824.7	836.5	848.3	-	824.7	836.5	848.3
1.4	QPSK	1	0	-	21.79	21.87	21.89	-	0.0542	0.0552	0.0555
1.4	QPSK	1	3		21.94	21.75	21.62		0.0561	0.0537	0.0521



1.4	QPSK	1	5	21.52	21.71	21.79	0.0509	0.0532	0.0542
1.4	QPSK	3	0	21.79	21.79	21.83	0.0542	0.0542	0.0547
1.4	QPSK	3	1	21.70	21.88	21.68	0.0531	0.0553	0.0528
1.4	QPSK	3	3	21.61	21.66	21.74	0.0520	0.0526	0.0536
1.4	QPSK	6	0	21.07	21.22	21.06	0.0459	0.0475	0.0458
1.4	16QAM	1	0	21.06	20.93	20.94	0.0458	0.0445	0.0446
1.4	16QAM	1	3	20.71	20.94	21.01	0.0423	0.0446	0.0453
1.4	16QAM	1	5	20.98	21.16	20.95	0.0450	0.0469	0.0447
1.4	16QAM	3	0	20.85	20.98	20.90	0.0437	0.0450	0.0442
1.4	16QAM	3	1	20.79	21.06	20.98	0.0431	0.0458	0.0450
1.4	16QAM	3	3	20.94	21.08	20.92	0.0446	0.0460	0.0444
1.4	16QAM	6	0	20.22	20.24	20.10	0.0378	0.0379	0.0367
1.4	64QAM	1	0	19.86	19.87	19.96	0.0348	0.0348	0.0356
1.4	64QAM	1	3	19.95	20.06	19.81	0.0355	0.0364	0.0344
1.4	64QAM	1	5	19.96	19.93	19.83	0.0356	0.0353	0.0345
1.4	64QAM	3	0	19.92	19.98	19.80	0.0352	0.0357	0.0343
1.4	64QAM	3	1	19.71	19.85	19.90	0.0336	0.0347	0.0351
1.4	64QAM	3	3	19.81	19.85	19.76	0.0344	0.0347	0.0340
1.4	64QAM	6	0	18.99	19.07	18.89	0.0284	0.0290	0.0278

LTE Band 66:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP	EIRP	EIRP
Channel				132072	132322	132572	132072	132322	132572
Frequency (MHz)				1720	1745	1770	1720	1745	1770
20	QPSK	1	0	22.02	22.33	22.05	0.1452	0.1560	0.1462
20	QPSK	1	49	22.08	22.29	22.27	0.1472	0.1545	0.1538
20	QPSK	1	99	21.91	21.98	21.97	0.1416	0.1439	0.1435
20	QPSK	50	0	21.19	21.28	21.23	0.1199	0.1225	0.1211
20	QPSK	50	24	21.09	21.22	21.18	0.1172	0.1208	0.1197
20	QPSK	50	50	21.17	21.19	21.12	0.1194	0.1199	0.1180
20	QPSK	100	0	21.18	21.26	21.20	0.1197	0.1219	0.1202
20	16QAM	1	0	21.01	21.12	21.03	0.1151	0.1180	0.1156
20	16QAM	1	49	21.16	21.23	21.23	0.1191	0.1211	0.1211
20	16QAM	1	99	21.07	21.26	21.14	0.1167	0.1219	0.1186
20	16QAM	50	0	20.24	20.28	20.21	0.0964	0.0973	0.0957
20	16QAM	50	24	20.13	20.19	20.10	0.0940	0.0953	0.0933
20	16QAM	50	50	20.14	20.22	20.14	0.0942	0.0959	0.0942
20	16QAM	100	0	20.17	20.19	20.21	0.0948	0.0953	0.0957
20	64QAM	1	0	20.02	20.09	19.95	0.0916	0.0931	0.0902
20	64QAM	1	49	20.17	20.23	20.09	0.0948	0.0962	0.0931
20	64QAM	1	99	20.19	20.19	20.14	0.0953	0.0953	0.0942
20	64QAM	50	0	19.19	19.29	19.17	0.0757	0.0774	0.0753
20	64QAM	50	24	19.15	19.22	19.13	0.0750	0.0762	0.0746
20	64QAM	50	50	19.12	19.23	19.06	0.0745	0.0764	0.0735
20	64QAM	100	0	19.15	19.21	19.16	0.0750	0.0760	0.0752
Channel				132047	132322	132597	132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5	1717.5	1745	1772.5
15	QPSK	1	0	21.90	22.24	22.02	0.1413	0.1528	0.1452



15	QPSK	1	37	22.08	22.22	22.24	0.1472	0.1521	0.1528
15	QPSK	1	74	21.82	21.88	21.89	0.1387	0.1406	0.1409
15	QPSK	36	0	21.08	21.16	21.19	0.1169	0.1191	0.1199
15	QPSK	36	20	21.04	21.16	21.07	0.1159	0.1191	0.1167
15	QPSK	36	39	21.07	21.10	21.01	0.1167	0.1175	0.1151
15	QPSK	75	0	21.16	21.25	21.10	0.1191	0.1216	0.1175
15	16QAM	1	0	20.94	21.05	20.93	0.1132	0.1161	0.1130
15	16QAM	1	37	21.15	21.14	21.17	0.1189	0.1186	0.1194
15	16QAM	1	74	21.00	21.17	21.09	0.1148	0.1194	0.1172
15	16QAM	36	0	20.19	20.26	20.16	0.0953	0.0968	0.0946
15	16QAM	36	20	20.03	20.17	20.07	0.0918	0.0948	0.0927
15	16QAM	36	39	20.07	20.20	20.06	0.0927	0.0955	0.0925
15	16QAM	75	0	20.08	20.15	20.19	0.0929	0.0944	0.0953
15	64QAM	1	0	19.94	20.02	19.93	0.0899	0.0916	0.0897
15	64QAM	1	37	20.07	20.20	20.09	0.0927	0.0955	0.0931
15	64QAM	1	74	20.17	20.09	20.09	0.0948	0.0931	0.0931
15	64QAM	36	0	19.10	19.29	19.07	0.0741	0.0774	0.0736
15	64QAM	36	20	19.13	19.11	19.03	0.0746	0.0743	0.0729
15	64QAM	36	39	19.01	19.12	19.00	0.0726	0.0745	0.0724
15	64QAM	75	0	19.10	19.19	19.09	0.0741	0.0757	0.0740
Channel				132022	132322	132622	132022	132322	132622
Frequency (MHz)				1715	1745	1775	1715	1745	1775
10	QPSK	1	0	21.91	22.25	21.95	0.1416	0.1531	0.1429
10	QPSK	1	25	21.98	22.26	22.17	0.1439	0.1535	0.1503
10	QPSK	1	49	21.88	21.91	21.95	0.1406	0.1416	0.1429
10	QPSK	25	0	21.17	21.25	21.12	0.1194	0.1216	0.1180
10	QPSK	25	12	21.08	21.11	21.13	0.1169	0.1178	0.1183
10	QPSK	25	25	21.16	21.19	21.00	0.1191	0.1199	0.1148
10	QPSK	50	0	21.17	21.21	21.10	0.1194	0.1205	0.1175
10	16QAM	1	0	20.96	21.02	20.97	0.1138	0.1153	0.1140
10	16QAM	1	25	21.04	21.11	21.12	0.1159	0.1178	0.1180
10	16QAM	1	49	21.06	21.18	21.09	0.1164	0.1197	0.1172
10	16QAM	25	0	20.15	20.21	20.14	0.0944	0.0957	0.0942
10	16QAM	25	12	20.06	20.12	19.99	0.0925	0.0938	0.0910
10	16QAM	25	25	20.05	20.21	20.11	0.0923	0.0957	0.0935
10	16QAM	50	0	20.14	20.17	20.11	0.0942	0.0948	0.0935
10	64QAM	1	0	19.98	20.06	19.86	0.0908	0.0925	0.0883
10	64QAM	1	25	20.07	20.20	20.01	0.0927	0.0955	0.0914
10	64QAM	1	49	20.16	20.10	20.05	0.0946	0.0933	0.0923
10	64QAM	25	0	19.13	19.25	19.06	0.0746	0.0767	0.0735
10	64QAM	25	12	19.14	19.19	19.09	0.0748	0.0757	0.0740
10	64QAM	25	25	19.10	19.16	18.97	0.0741	0.0752	0.0719
10	64QAM	50	0	19.09	19.13	19.06	0.0740	0.0746	0.0735
Channel				131997	132322	132647	131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5	1712.5	1745	1777.5
5	QPSK	1	0	21.82	22.24	21.97	0.1387	0.1528	0.1435
5	QPSK	1	12	21.96	22.20	22.18	0.1432	0.1514	0.1507
5	QPSK	1	24	21.91	21.90	21.95	0.1416	0.1413	0.1429
5	QPSK	12	0	21.19	21.22	21.16	0.1199	0.1208	0.1191
5	QPSK	12	7	21.03	21.16	21.08	0.1156	0.1191	0.1169



5	QPSK	12	13	21.07	21.09	21.00	0.1167	0.1172	0.1148
5	QPSK	25	0	21.15	21.21	21.19	0.1189	0.1205	0.1199
5	16QAM	1	0	20.93	21.09	20.95	0.1130	0.1172	0.1135
5	16QAM	1	12	21.12	21.13	21.21	0.1180	0.1183	0.1205
5	16QAM	1	24	20.97	21.21	21.06	0.1140	0.1205	0.1164
5	16QAM	12	0	20.19	20.20	20.19	0.0953	0.0955	0.0953
5	16QAM	12	7	20.12	20.18	20.04	0.0938	0.0951	0.0920
5	16QAM	12	13	20.11	20.13	20.02	0.0935	0.0940	0.0916
5	16QAM	25	0	20.08	20.09	20.15	0.0929	0.0931	0.0944
5	64QAM	1	0	20.01	19.98	19.85	0.0914	0.0908	0.0881
5	64QAM	1	12	20.15	20.18	20.03	0.0944	0.0951	0.0918
5	64QAM	1	24	20.10	20.13	20.10	0.0933	0.0940	0.0933
5	64QAM	12	0	19.08	19.26	19.08	0.0738	0.0769	0.0738
5	64QAM	12	7	19.12	19.22	19.09	0.0745	0.0762	0.0740
5	64QAM	12	13	19.11	19.23	19.00	0.0743	0.0764	0.0724
5	64QAM	25	0	19.04	19.15	19.07	0.0731	0.0750	0.0736
Channel				131987	132322	132657	131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5	1711.5	1745	1778.5
3	QPSK	1	0	21.90	22.29	22.04	0.1413	0.1545	0.1459
3	QPSK	1	8	22.03	22.27	22.26	0.1455	0.1538	0.1535
3	QPSK	1	14	21.80	21.95	21.93	0.1380	0.1429	0.1422
3	QPSK	8	0	21.16	21.20	21.20	0.1191	0.1202	0.1202
3	QPSK	8	4	21.02	21.20	21.17	0.1153	0.1202	0.1194
3	QPSK	8	7	21.13	21.10	21.06	0.1183	0.1175	0.1164
3	QPSK	15	0	21.11	21.19	21.13	0.1178	0.1199	0.1183
3	16QAM	1	0	20.97	21.09	20.95	0.1140	0.1172	0.1135
3	16QAM	1	8	21.13	21.16	21.16	0.1183	0.1191	0.1191
3	16QAM	1	14	20.97	21.23	21.13	0.1140	0.1211	0.1183
3	16QAM	8	0	20.14	20.21	20.15	0.0942	0.0957	0.0944
3	16QAM	8	4	20.11	20.13	20.04	0.0935	0.0940	0.0920
3	16QAM	8	7	20.06	20.19	20.04	0.0925	0.0953	0.0920
3	16QAM	15	0	20.11	20.13	20.14	0.0935	0.0940	0.0942
3	64QAM	1	0	20.02	20.05	19.94	0.0916	0.0923	0.0899
3	64QAM	1	8	20.14	20.19	20.02	0.0942	0.0953	0.0916
3	64QAM	1	14	20.15	20.17	20.09	0.0944	0.0948	0.0931
3	64QAM	8	0	19.11	19.18	19.06	0.0743	0.0755	0.0735
3	64QAM	8	4	19.07	19.21	19.08	0.0736	0.0760	0.0738
3	64QAM	8	7	19.08	19.18	19.06	0.0738	0.0755	0.0735
3	64QAM	15	0	19.12	19.10	19.10	0.0745	0.0741	0.0741
Channel				131979	132322	132665	131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3	1710.7	1745	1779.3
1.4	QPSK	1	0	22.02	22.14	22.21	0.1452	0.1493	0.1517
1.4	QPSK	1	3	22.24	21.94	21.99	0.1528	0.1426	0.1442
1.4	QPSK	1	5	21.92	22.03	22.02	0.1419	0.1455	0.1452
1.4	QPSK	3	0	22.03	22.13	22.09	0.1455	0.1489	0.1476
1.4	QPSK	3	1	22.06	22.07	22.04	0.1466	0.1469	0.1459
1.4	QPSK	3	3	22.04	21.92	22.02	0.1459	0.1419	0.1452
1.4	QPSK	6	0	21.35	21.45	21.51	0.1245	0.1274	0.1291
1.4	16QAM	1	0	21.36	21.31	21.24	0.1247	0.1233	0.1213
1.4	16QAM	1	3	21.00	21.26	21.25	0.1148	0.1219	0.1216

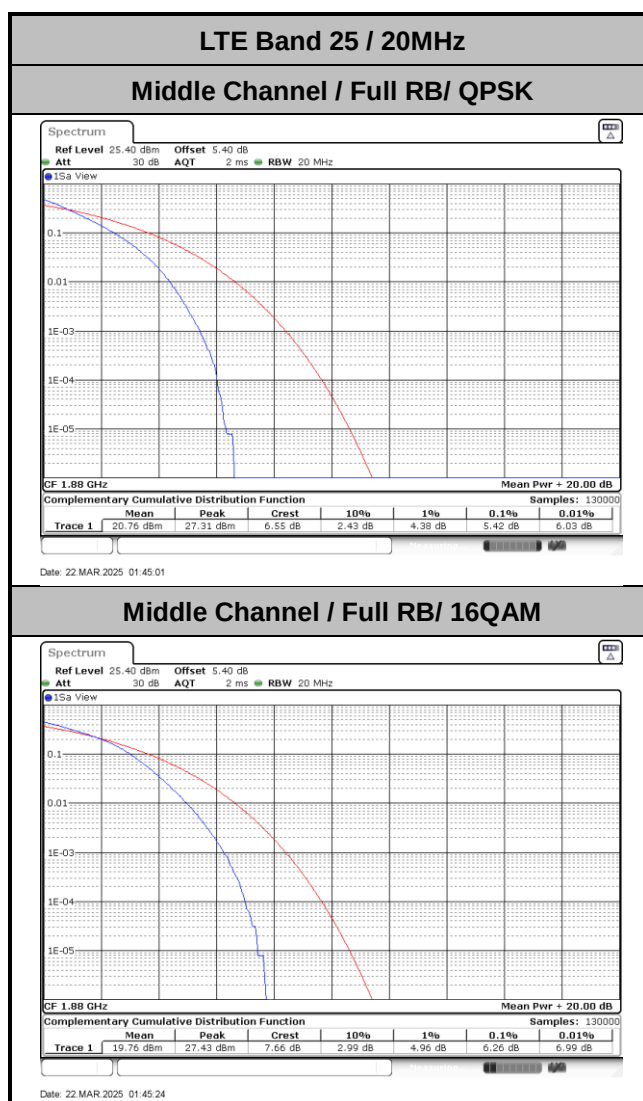


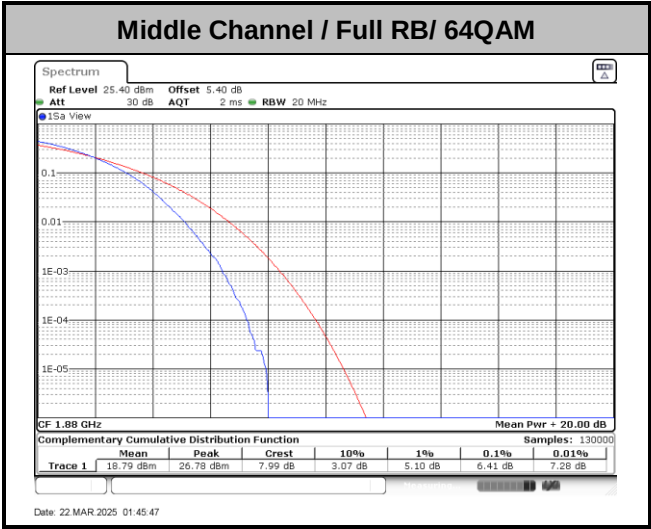
1.4	16QAM	1	5	21.32	21.45	21.26	0.1236	0.1274	0.1219
1.4	16QAM	3	0	21.27	21.24	21.25	0.1222	0.1213	0.1216
1.4	16QAM	3	1	21.09	21.46	21.30	0.1172	0.1276	0.1230
1.4	16QAM	3	3	21.40	21.42	21.21	0.1259	0.1265	0.1205
1.4	16QAM	6	0	20.54	20.49	20.40	0.1033	0.1021	0.1000
1.4	64QAM	1	0	20.19	20.25	20.26	0.0953	0.0966	0.0968
1.4	64QAM	1	3	20.22	20.49	20.21	0.0959	0.1021	0.0957
1.4	64QAM	1	5	20.26	20.26	20.17	0.0968	0.0968	0.0948
1.4	64QAM	3	0	20.28	20.25	20.05	0.0973	0.0966	0.0923
1.4	64QAM	3	1	19.92	20.24	20.19	0.0895	0.0964	0.0953
1.4	64QAM	3	3	20.05	20.10	20.08	0.0923	0.0933	0.0929
1.4	64QAM	6	0	19.27	19.48	19.31	0.0771	0.0809	0.0778

LTE Band 25

Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.42	6.26	6.41	PASS





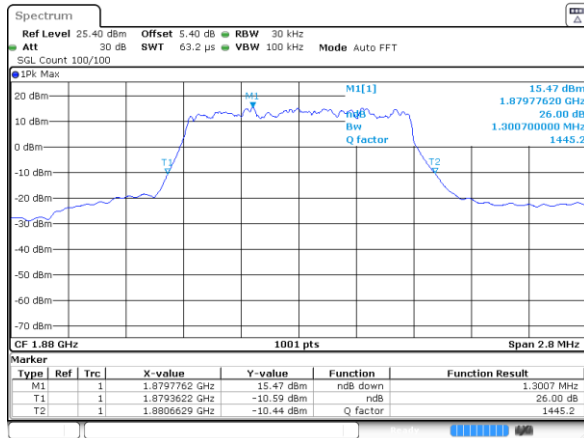
26dB Bandwidth

Mode	LTE Band 25 : 26dB BW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.30	1.24
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.96	2.94
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	5.03	5.17
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	10.01	9.85
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.57	14.51
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	19.34	19.22

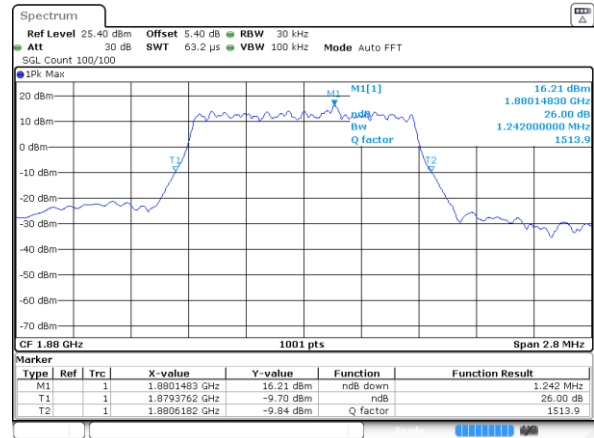


LTE Band 25

Middle Channel / 1.4MHz / QPSK

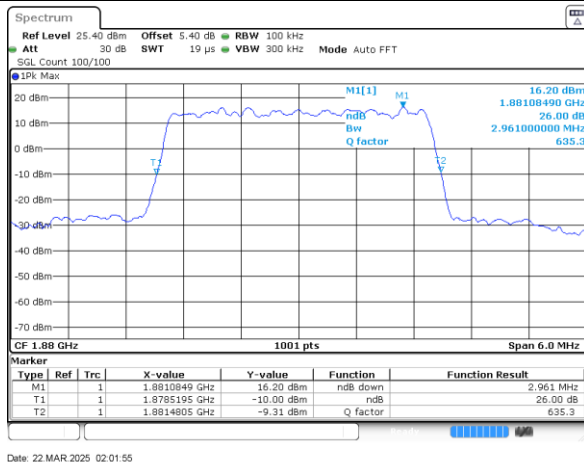


Middle Channel / 1.4MHz / 16QAM

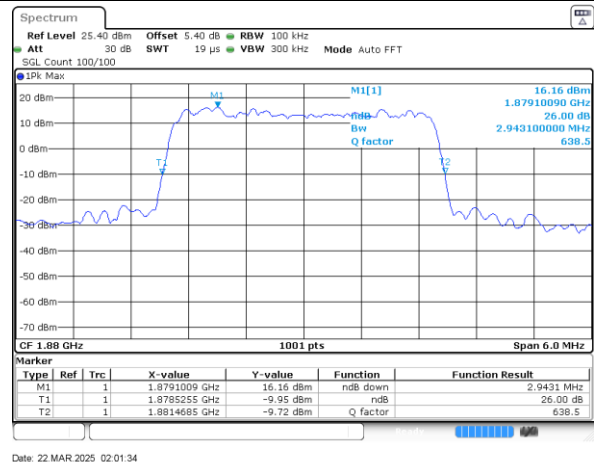


LTE Band 25

Middle Channel / 3MHz / QPSK

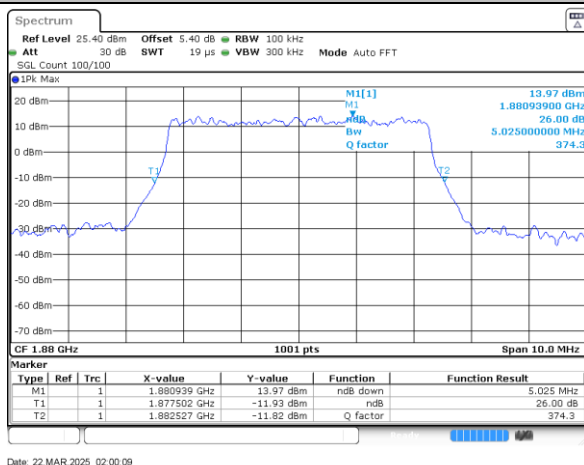


Middle Channel / 3MHz / 16QAM

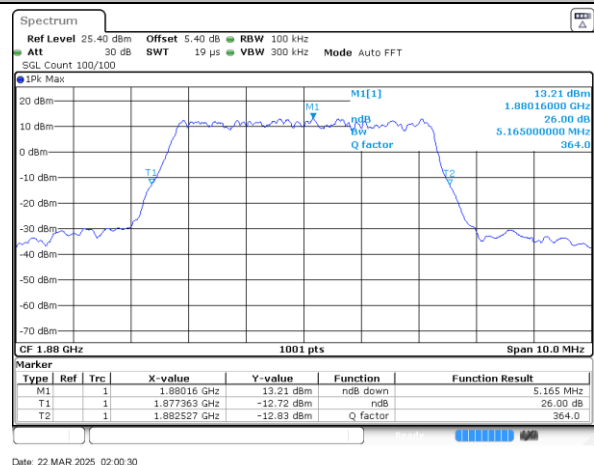


LTE Band 25

Middle Channel / 5MHz / QPSK



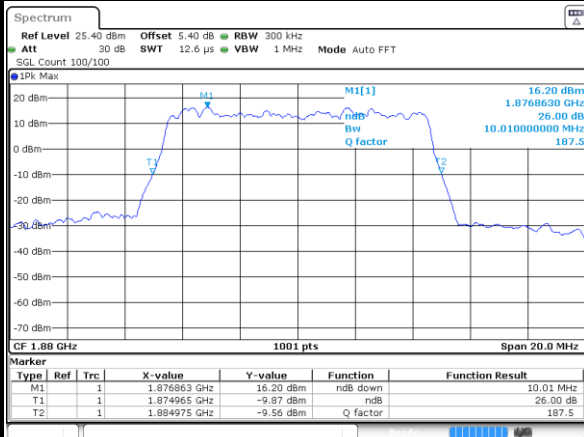
Middle Channel / 5MHz / 16QAM





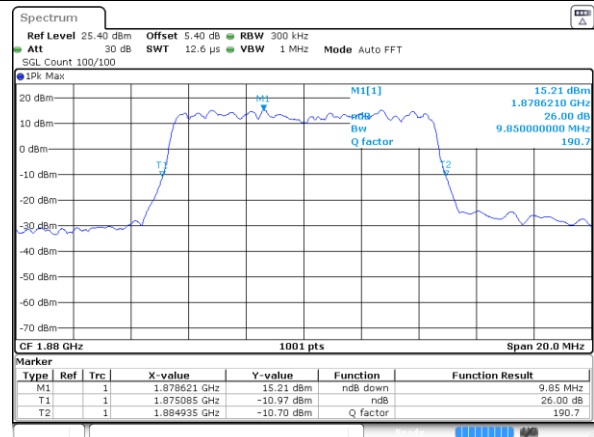
LTE Band 25

Middle Channel / 10MHz / QPSK



Date: 22 MAR 2025 01:59:05

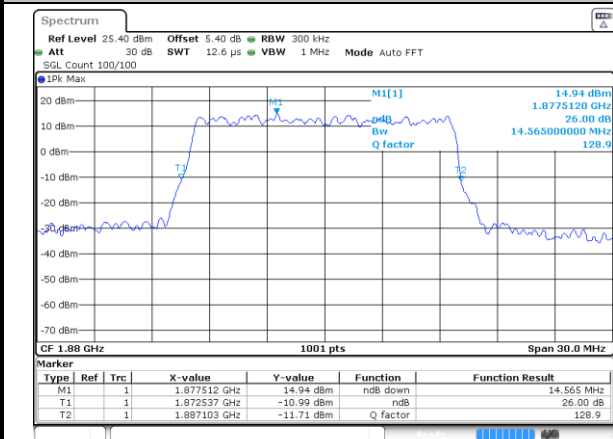
Middle Channel / 10MHz / 16QAM



Date: 22 MAR 2025 01:58:43

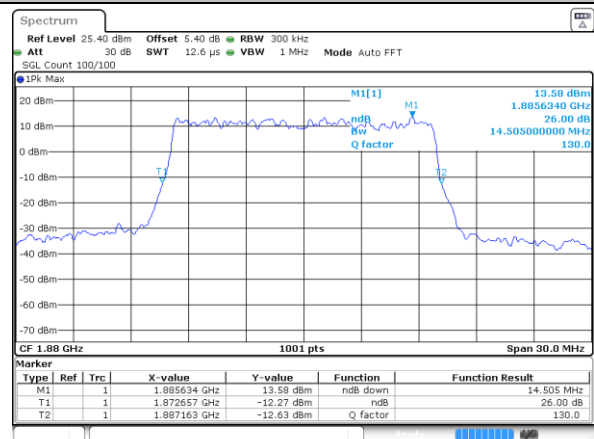
LTE Band 25

Middle Channel / 15MHz / QPSK



Date: 22 MAR 2025 01:57:18

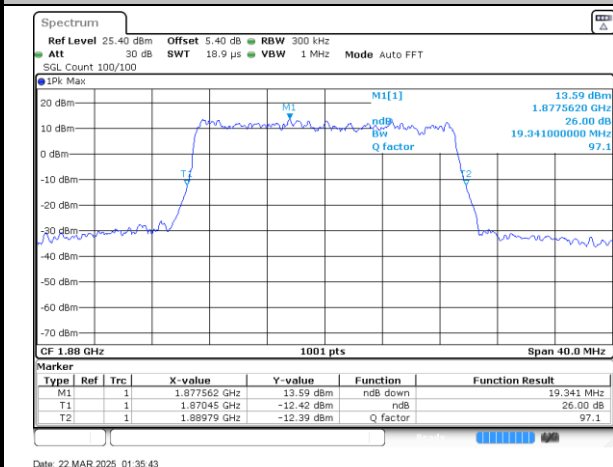
Middle Channel / 15MHz / 16QAM



Date: 22 MAR 2025 01:57:39

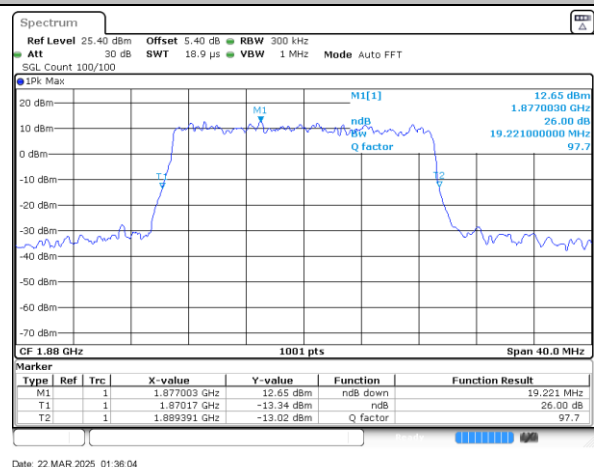
LTE Band 25

Middle Channel / 20MHz / QPSK



Date: 22 MAR 2025 01:35:43

Middle Channel / 20MHz / 16QAM



Date: 22 MAR 2025 01:36:04

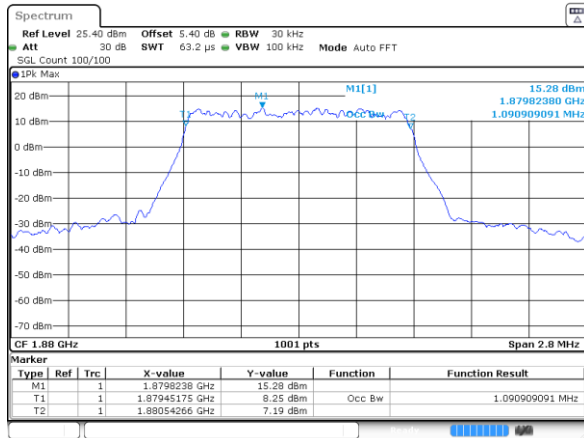
Occupied Bandwidth

Mode	LTE Band 25 : 99%OBW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.09	1.09
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.70	2.70
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.49	4.50
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.11	9.05
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.49	13.55
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.94	17.90

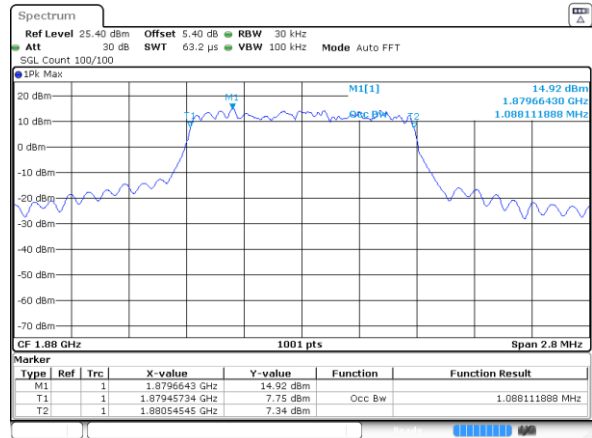


LTE Band 25

Middle Channel / 1.4MHz / QPSK

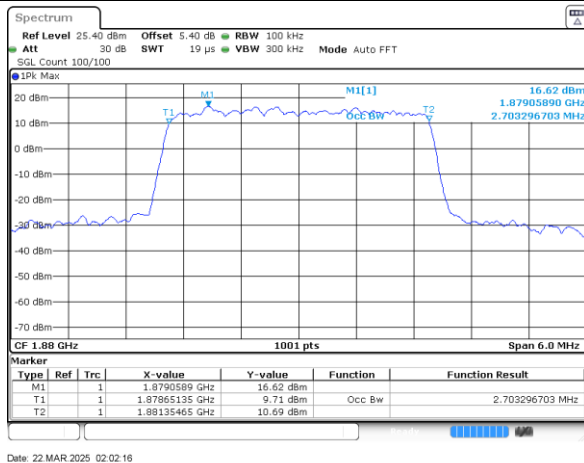


Middle Channel / 1.4MHz / 16QAM

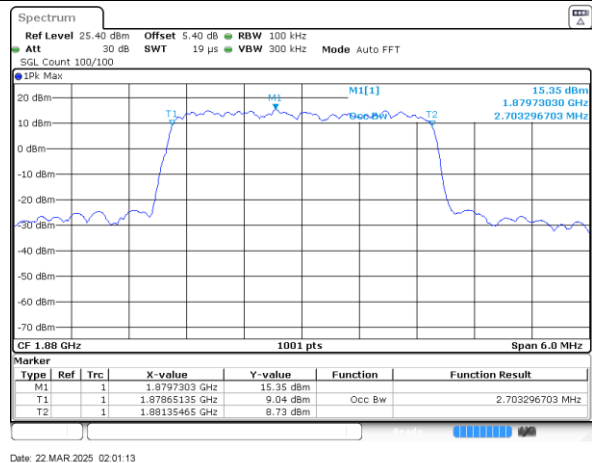


LTE Band 25

Middle Channel / 3MHz / QPSK

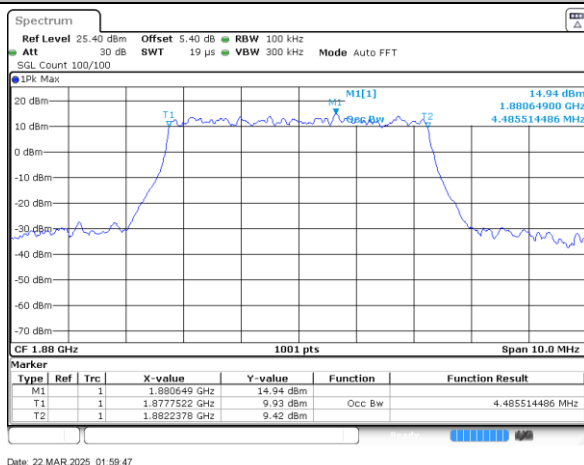


Middle Channel / 3MHz / 16QAM

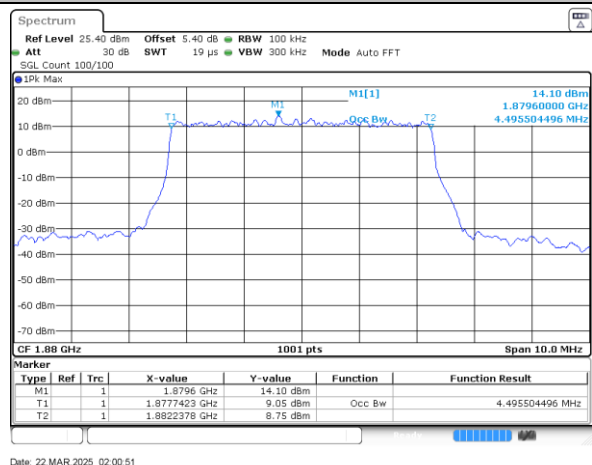


LTE Band 25

Middle Channel / 5MHz / QPSK



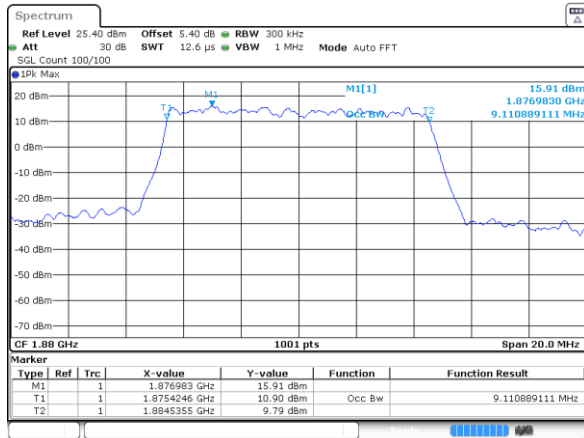
Middle Channel / 5MHz / 16QAM





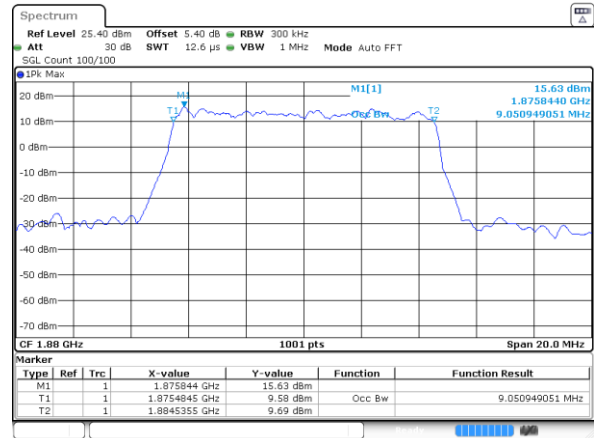
LTE Band 25

Middle Channel / 10MHz / QPSK



Date: 22 MAR 2025 01:59:26

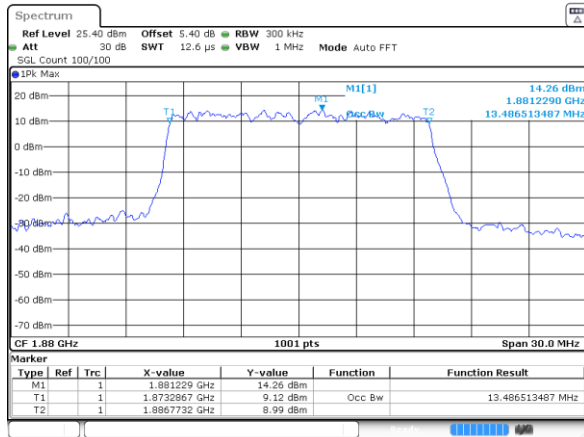
Middle Channel / 10MHz / 16QAM



Date: 22 MAR 2025 01:58:22

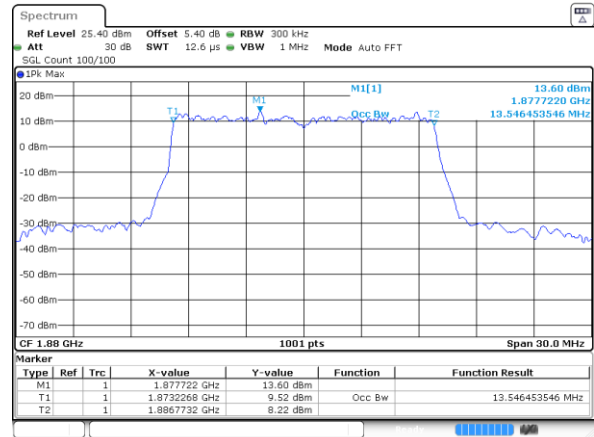
LTE Band 25

Middle Channel / 15MHz / QPSK



Date: 22 MAR 2025 01:56:57

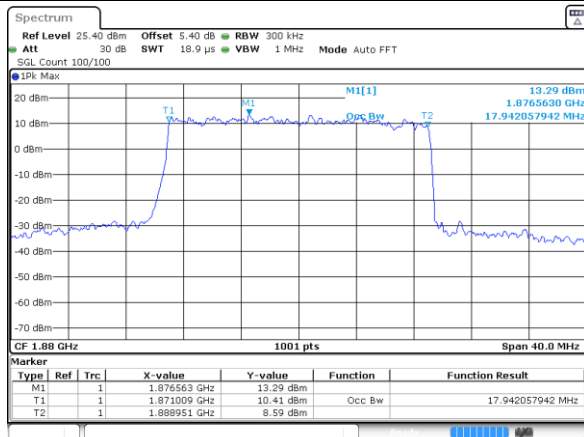
Middle Channel / 15MHz / 16QAM



Date: 22 MAR 2025 01:58:00

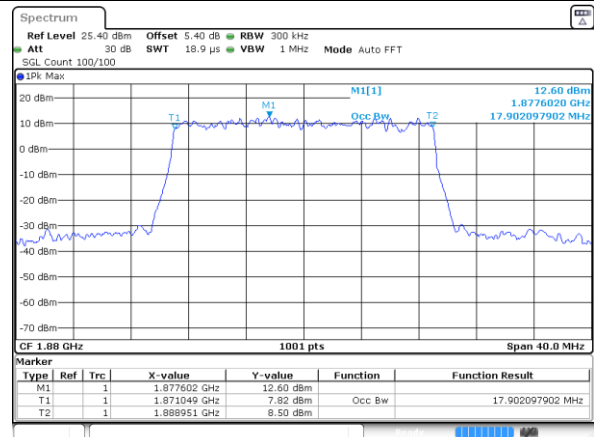
LTE Band 25

Middle Channel / 20MHz / QPSK



Date: 22 MAR 2025 01:35:21

Middle Channel / 20MHz / 16QAM



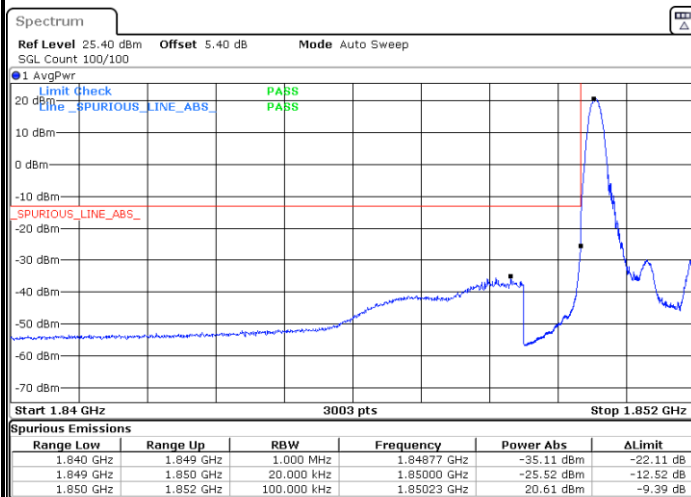
Date: 22 MAR 2025 01:36:25



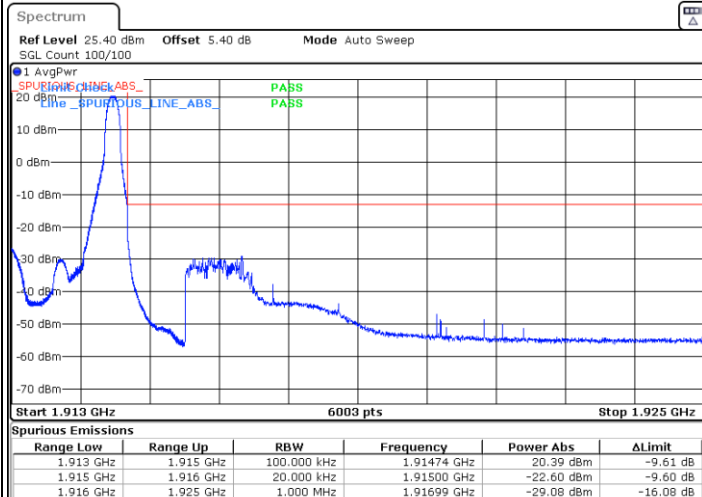
Conducted Band Edge

LTE Band 25 / 1.4MHz / QPSK

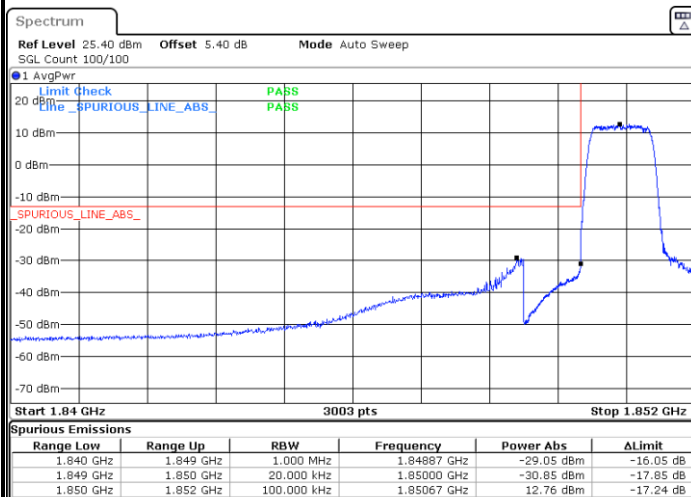
Lowest Band Edge / 1RB



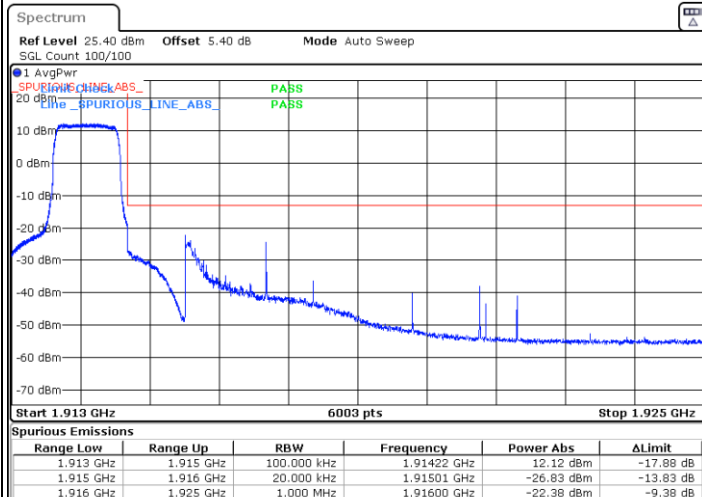
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



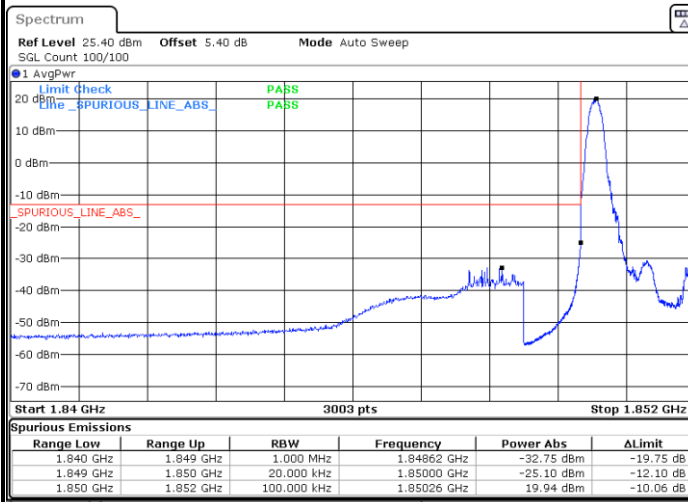
Highest Band Edge / Full RB



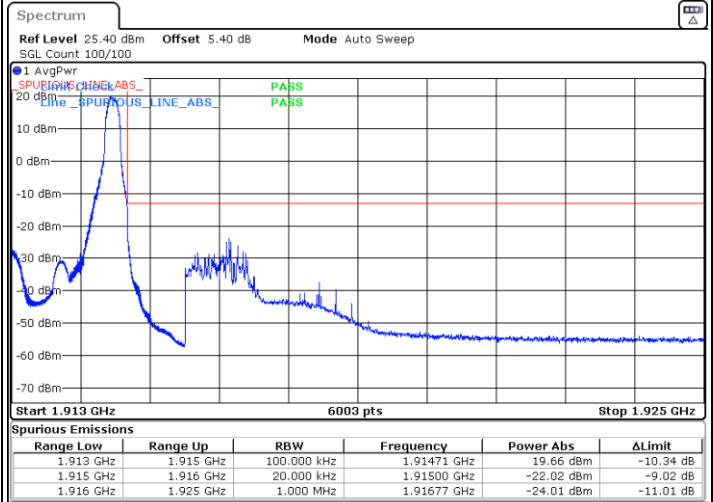


LTE Band 25 / 1.4MHz / 16QAM

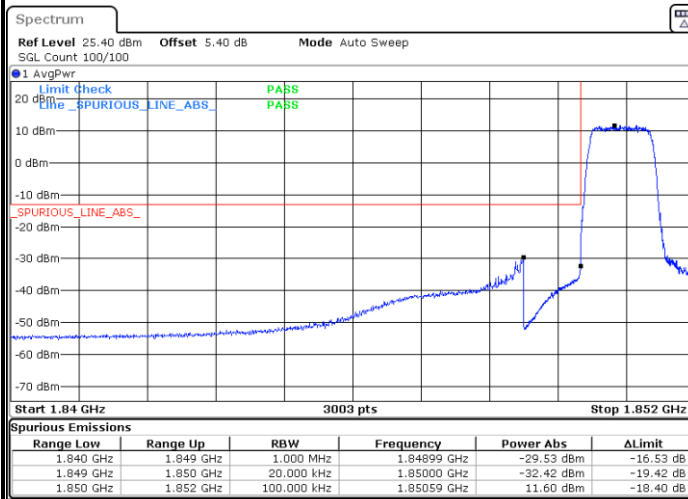
Lowest Band Edge / 1 RB



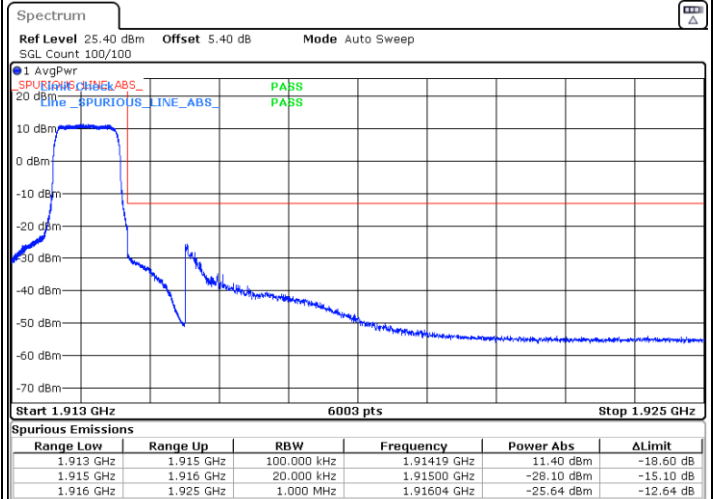
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



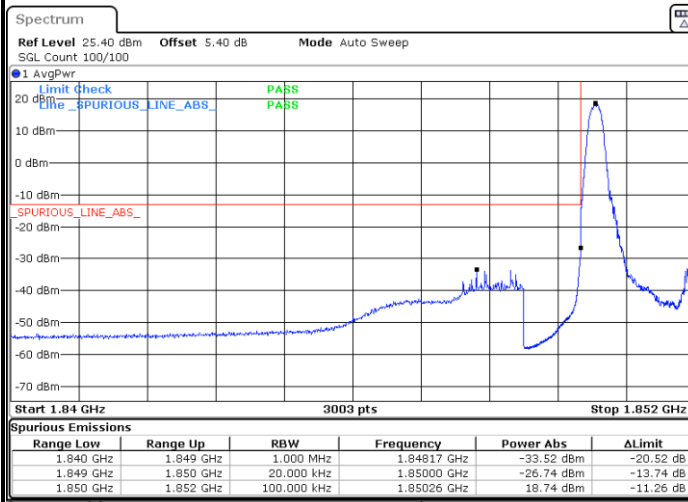
Highest Band Edge / Full RB



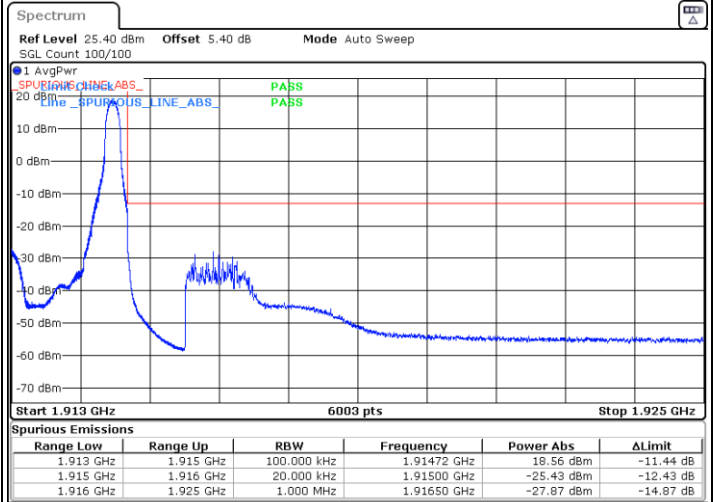


LTE Band 25 / 1.4MHz / 64QAM

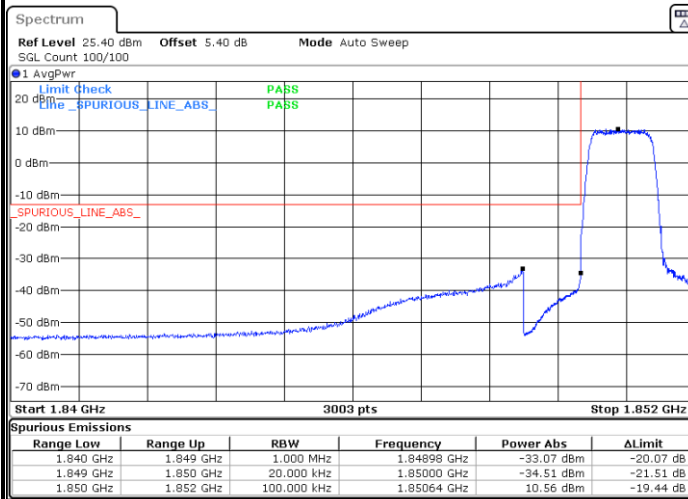
Lowest Band Edge / 1 RB



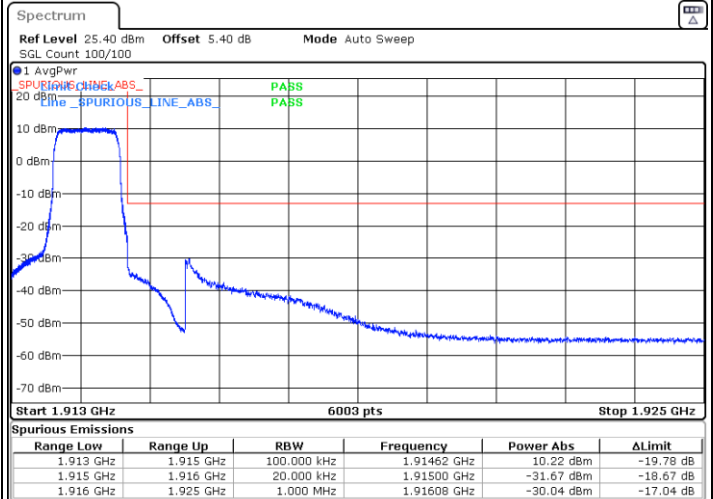
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



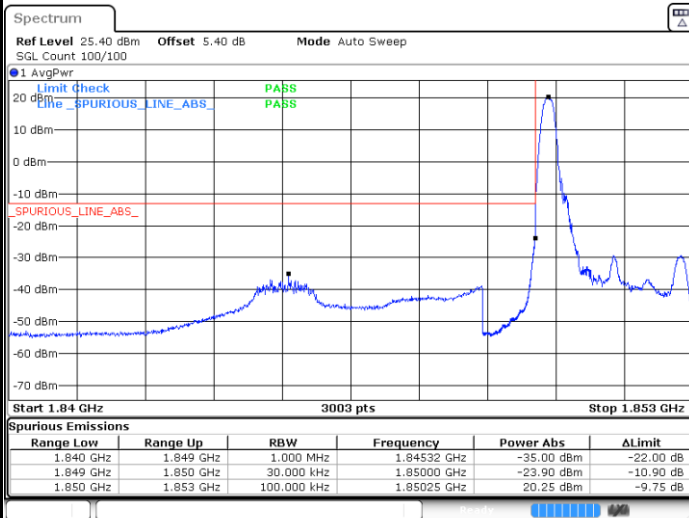
Highest Band Edge / Full RB



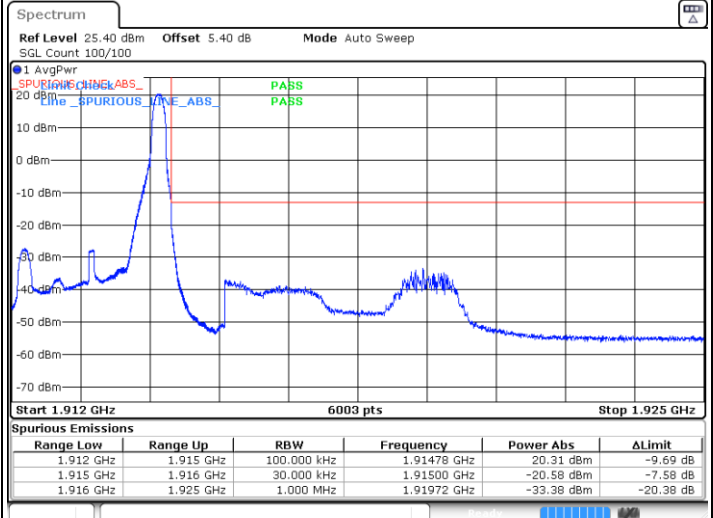


LTE Band 25 / 3MHz / QPSK

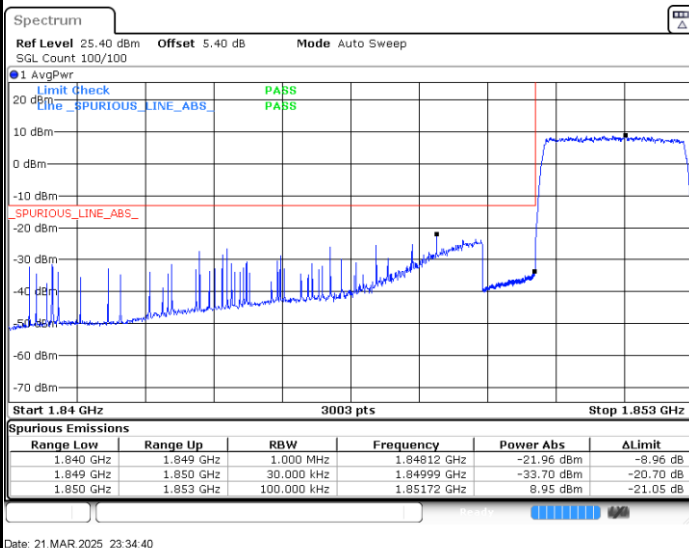
Lowest Band Edge / 1RB



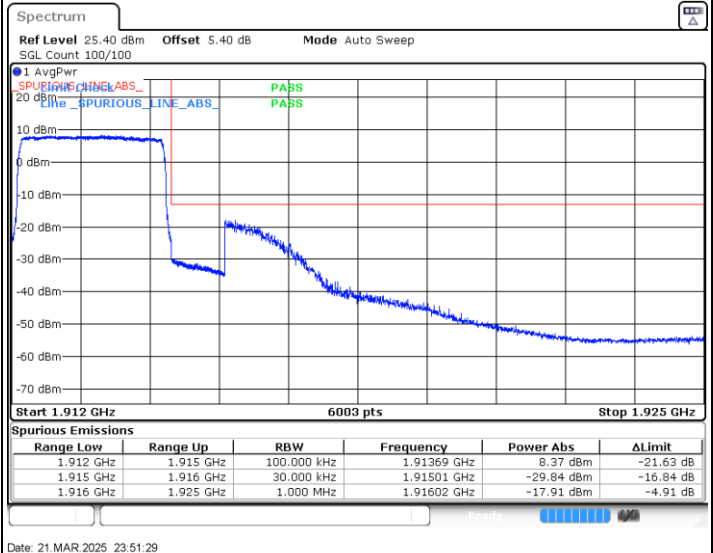
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



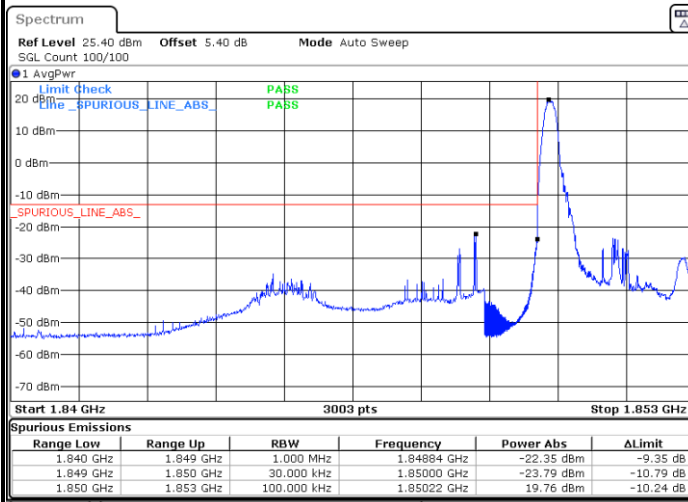
Highest Band Edge / Full RB



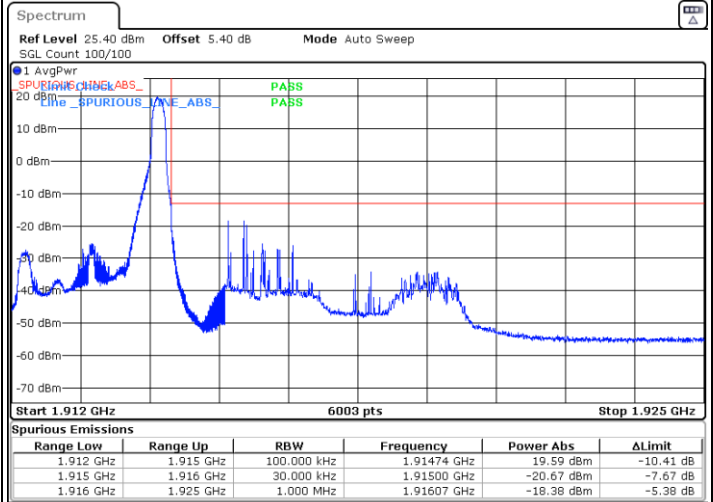


LTE Band 25 / 3MHz / 16QAM

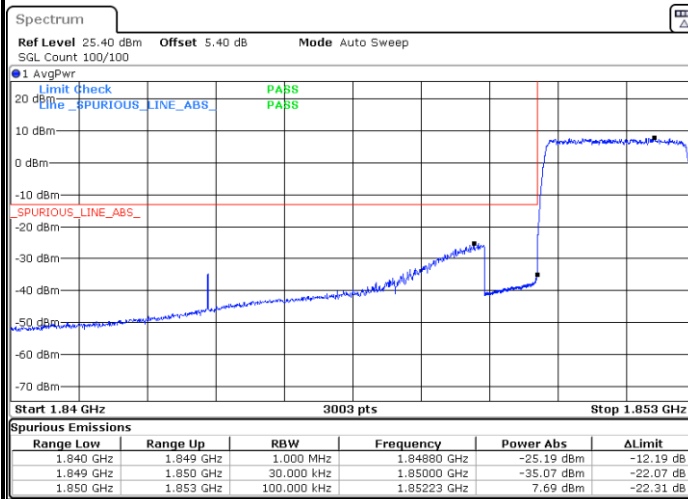
Lowest Band Edge / 1 RB



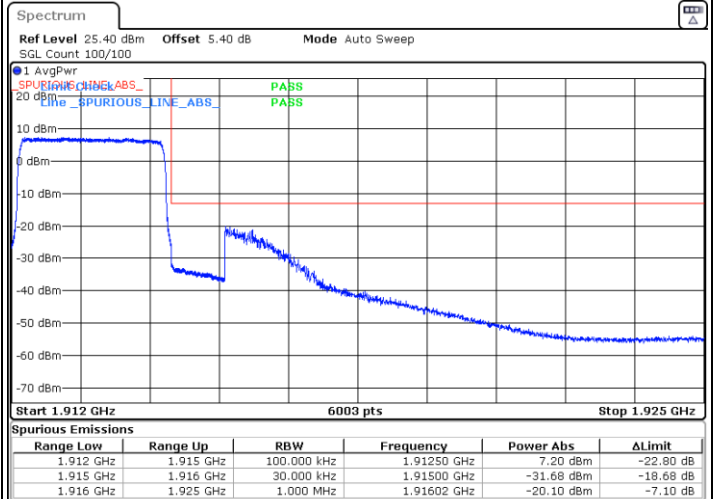
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



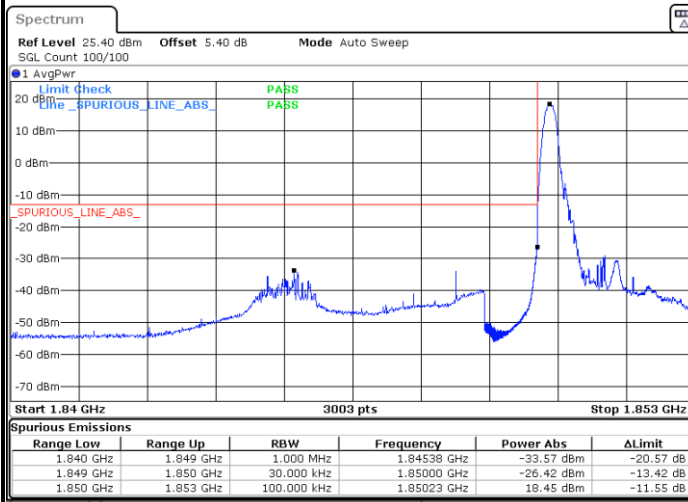
Highest Band Edge / Full RB



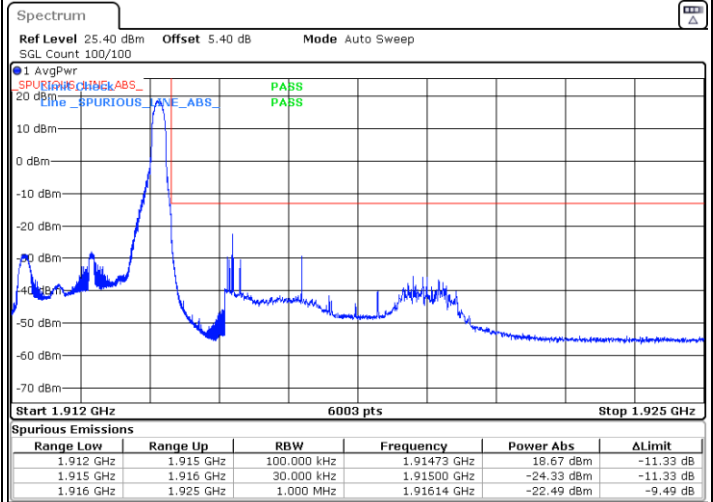


LTE Band 25 / 3MHz / 64QAM

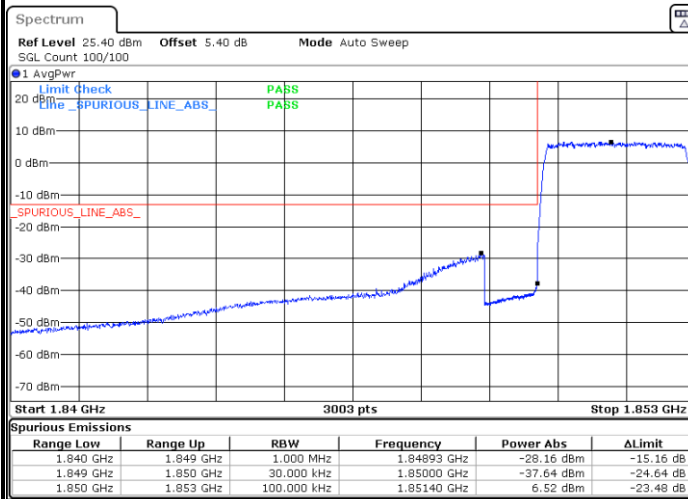
Lowest Band Edge / 1 RB



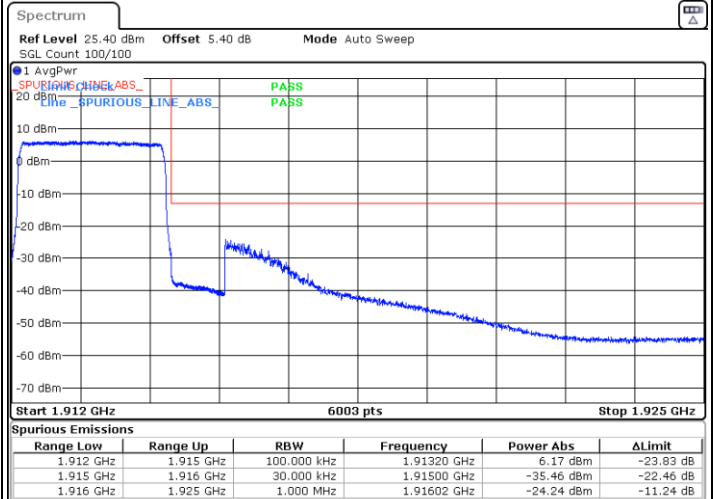
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



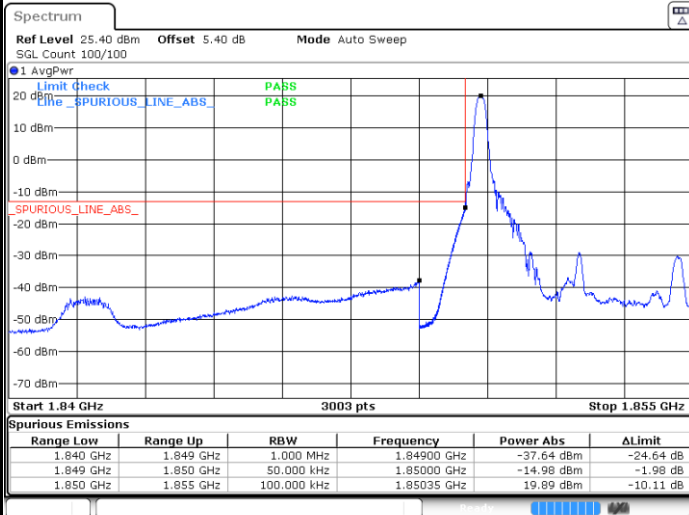
Highest Band Edge / Full RB



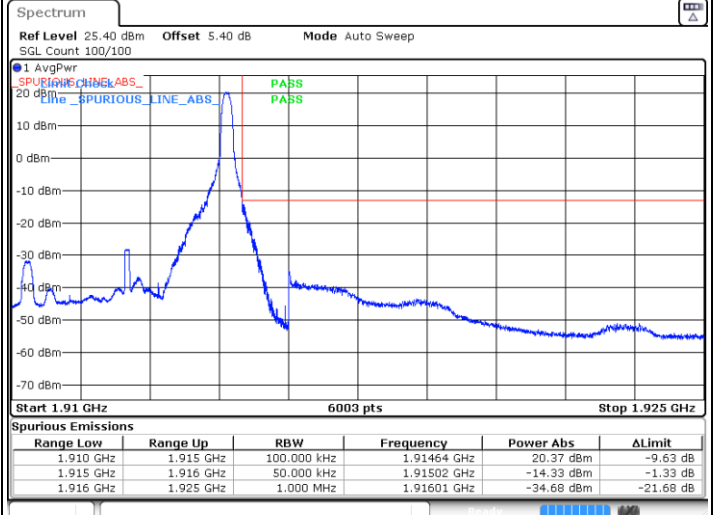


LTE Band 25 / 5MHz / QPSK

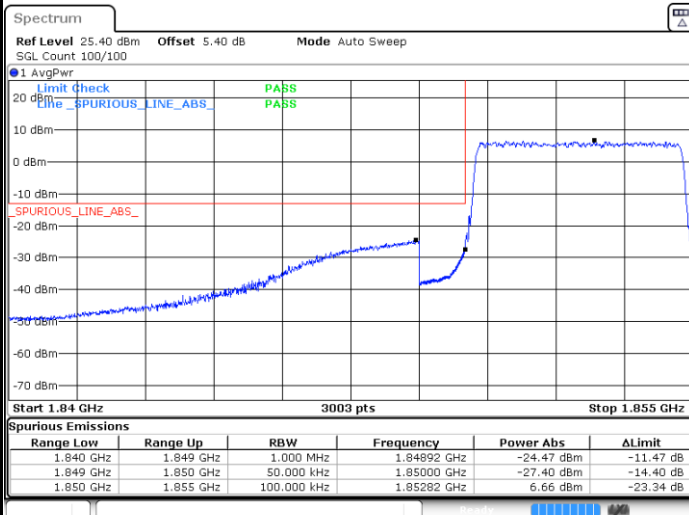
Lowest Band Edge / 1 RB



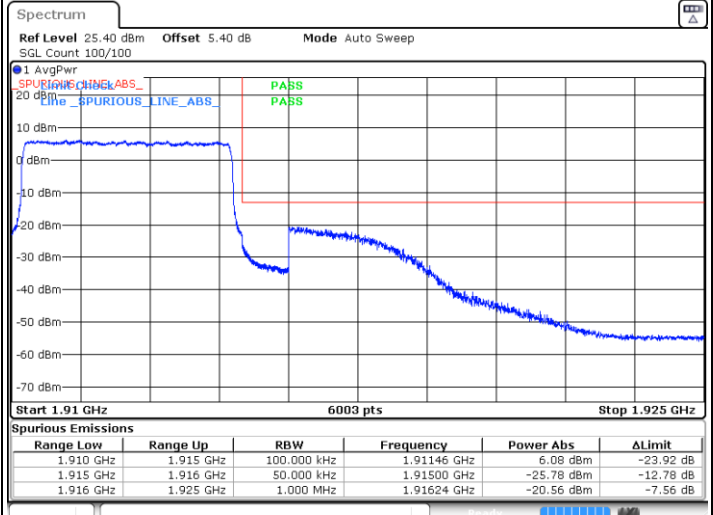
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



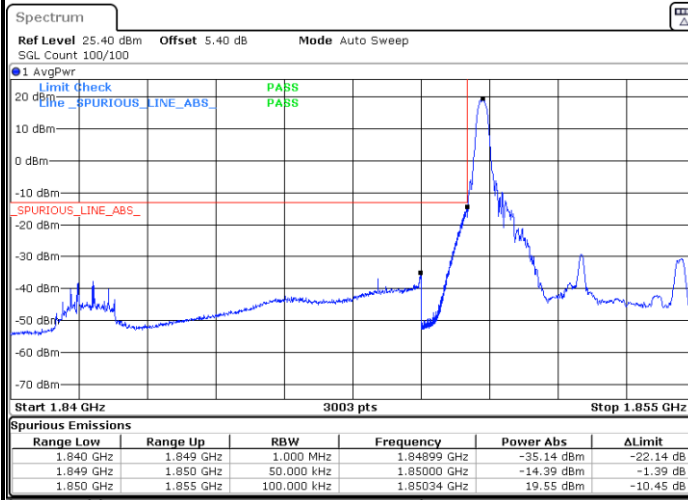
Highest Band Edge / Full RB



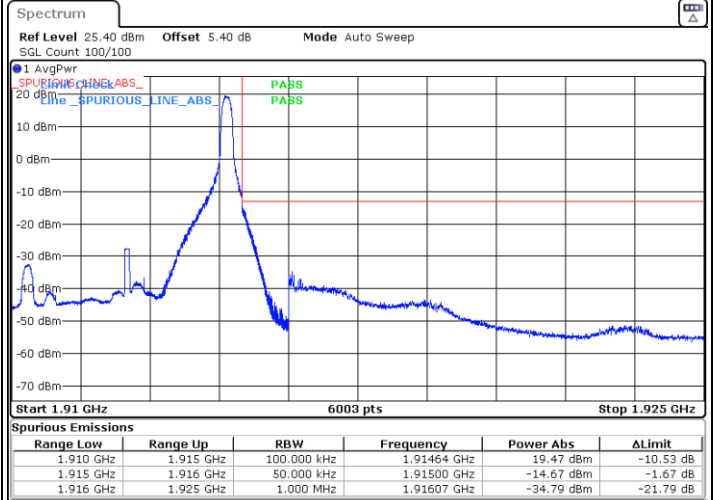


LTE Band 25 / 5MHz / 16QAM

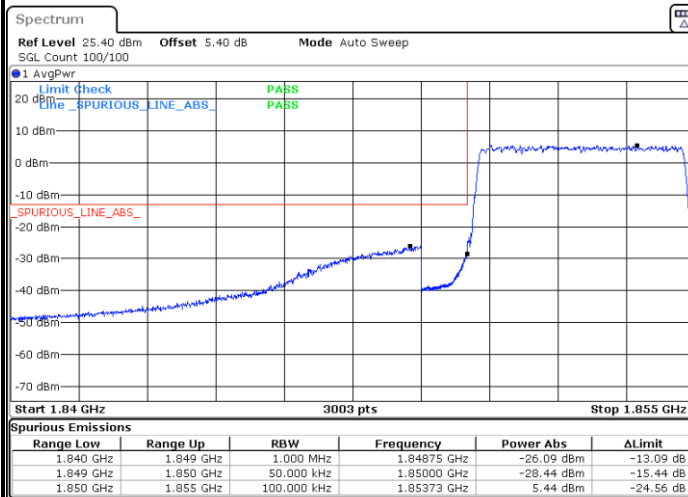
Lowest Band Edge / 1RB



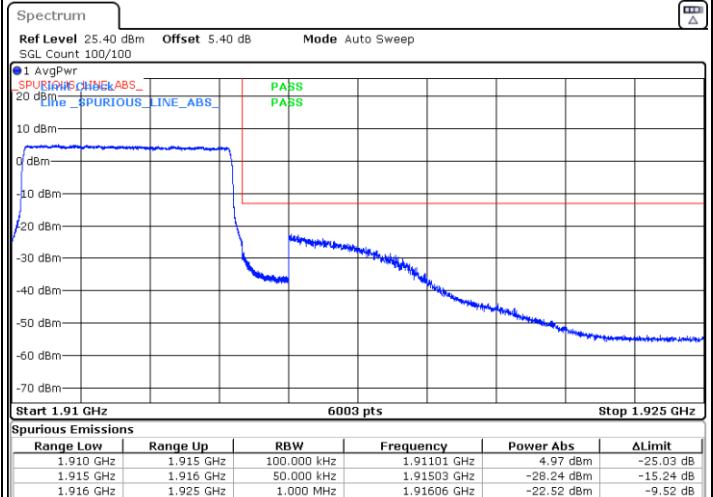
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



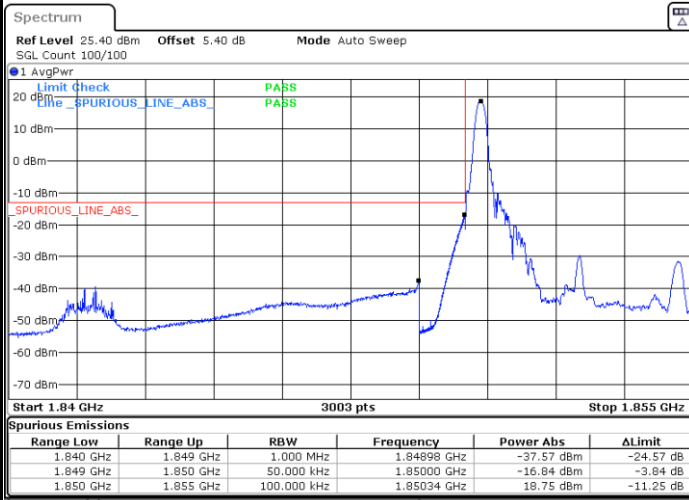
Highest Band Edge / Full RB



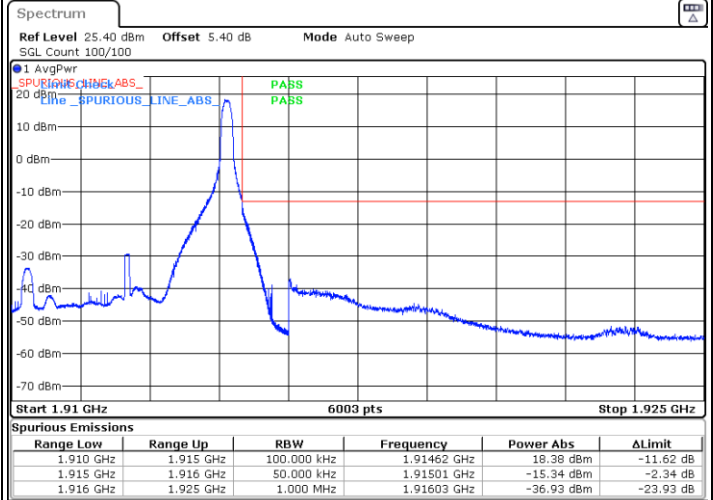


LTE Band 25 / 5MHz / 64QAM

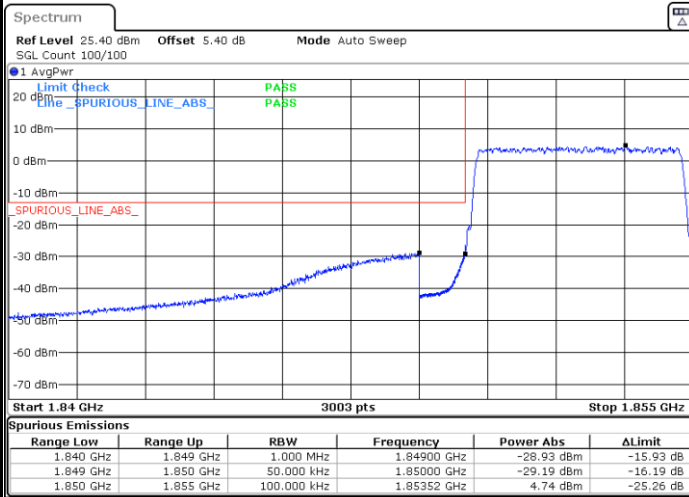
Lowest Band Edge / 1RB



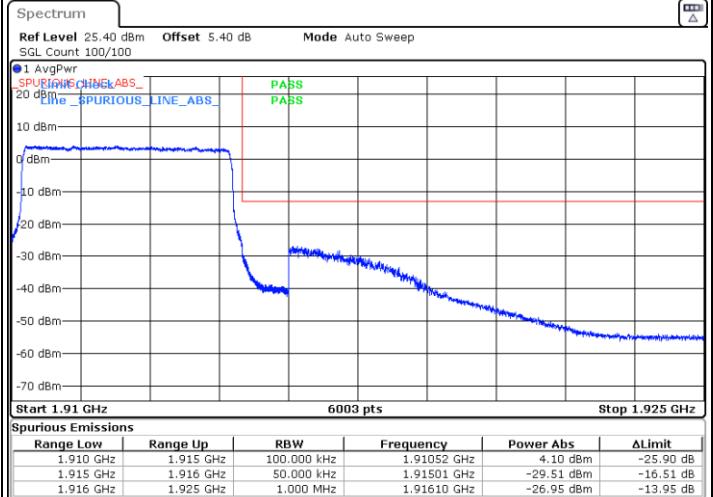
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



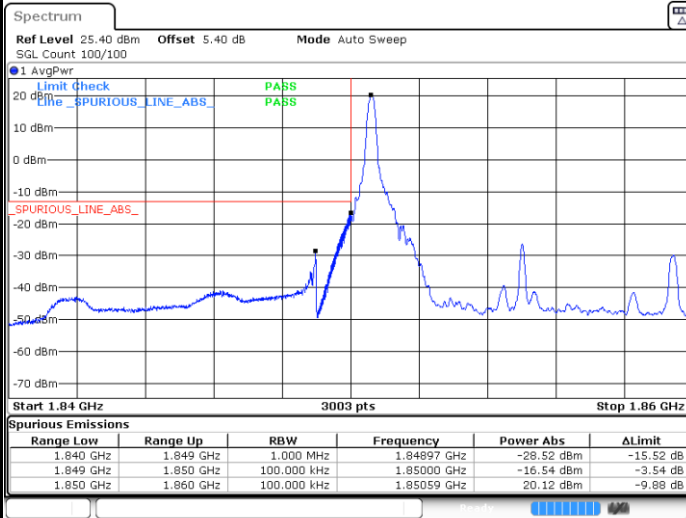
Highest Band Edge / Full RB



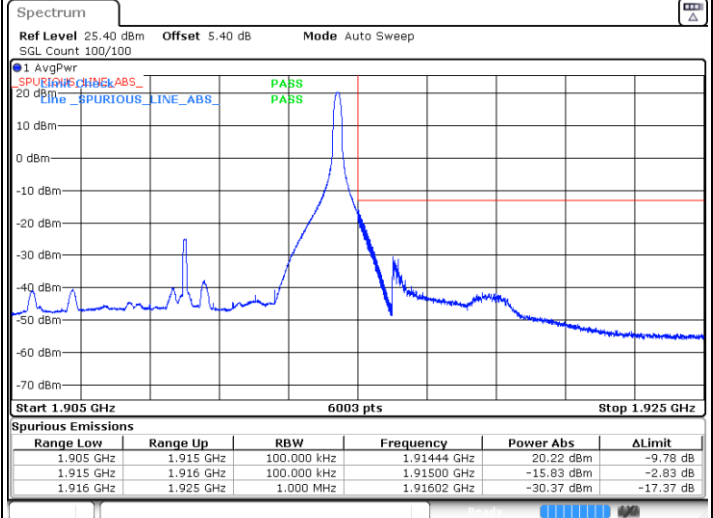


LTE Band 25 / 10MHz / QPSK

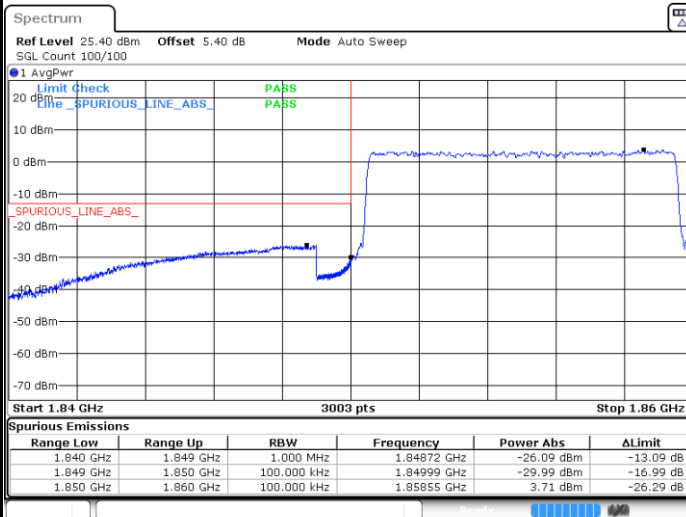
Lowest Band Edge / 1 RB



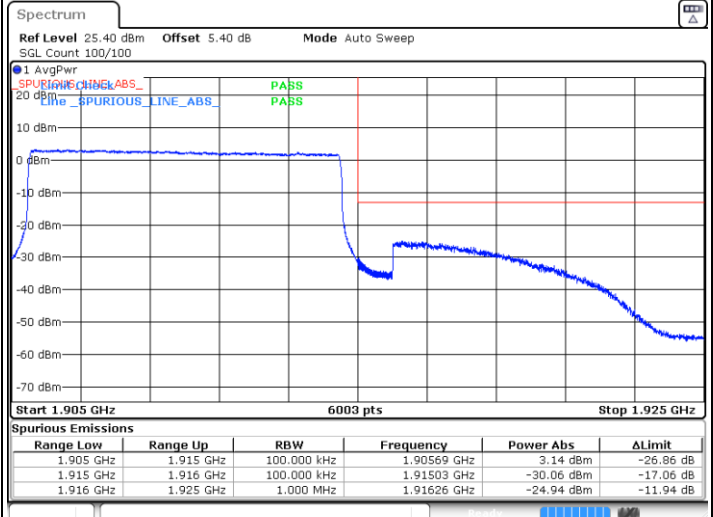
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



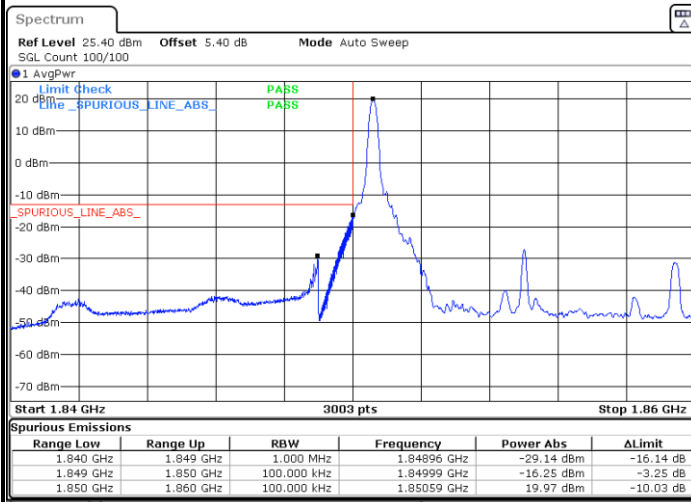
Highest Band Edge / Full RB



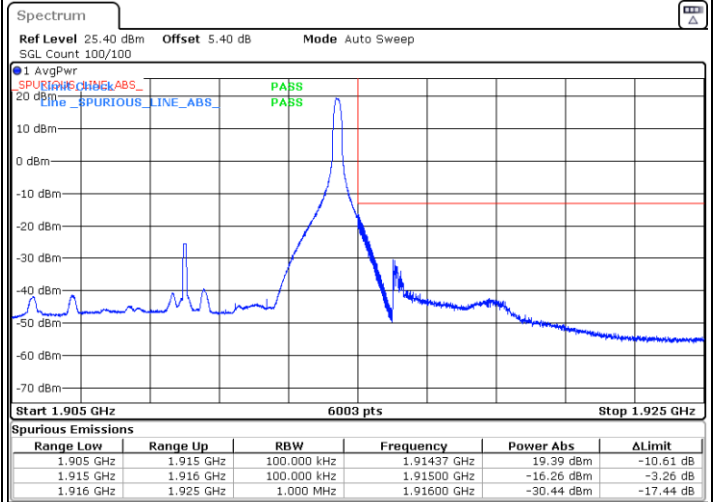


LTE Band 25 / 10MHz / 16QAM

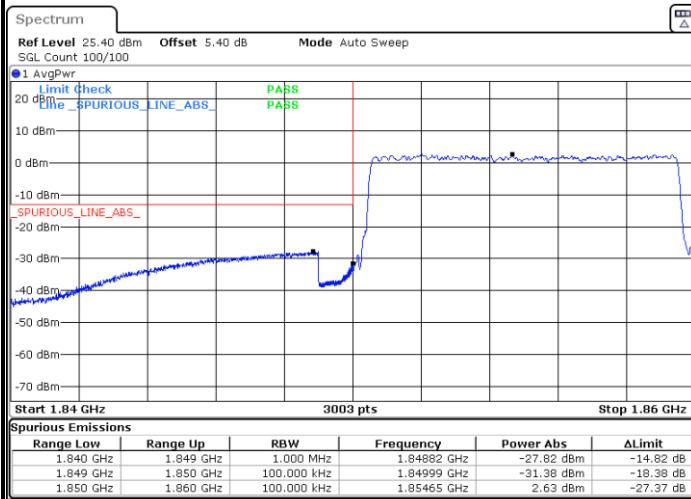
Lowest Band Edge / 1 RB



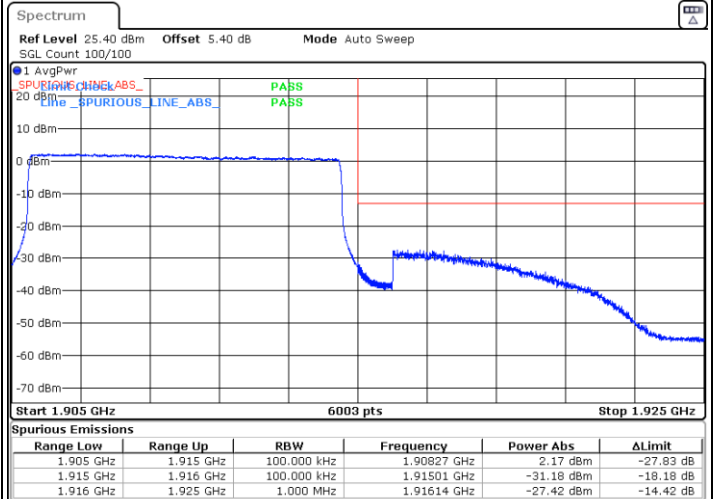
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



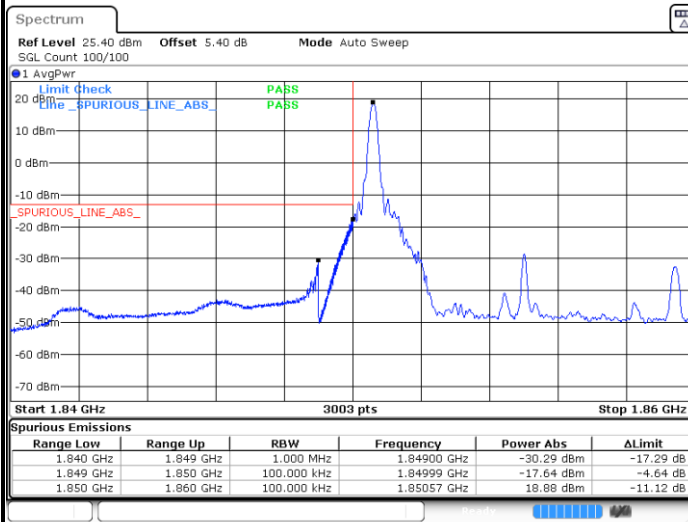
Highest Band Edge / Full RB



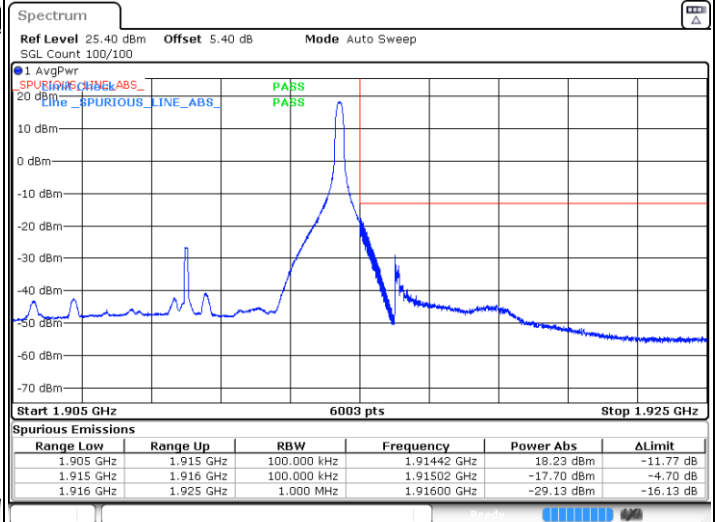


LTE Band 25 / 10MHz / 64QAM

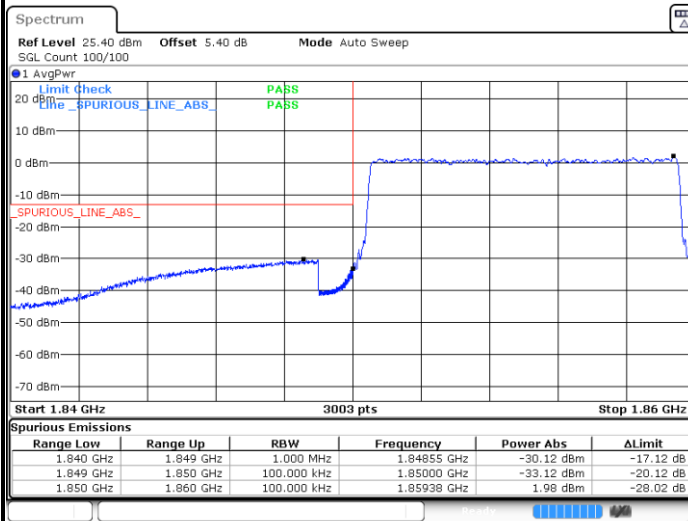
Lowest Band Edge / 1 RB



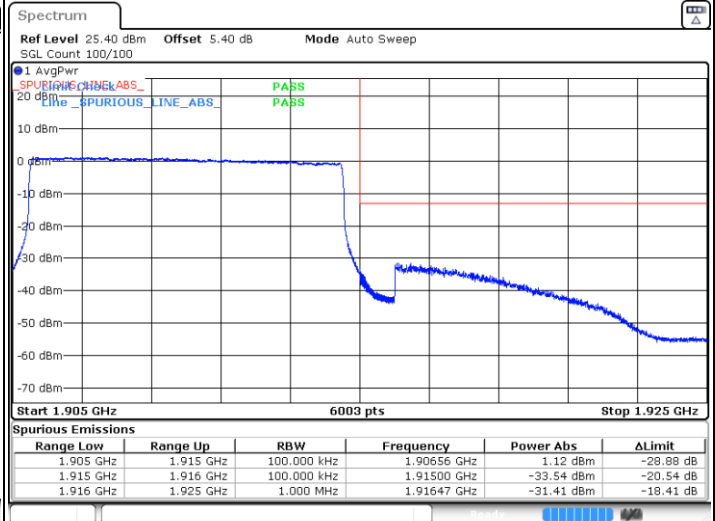
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



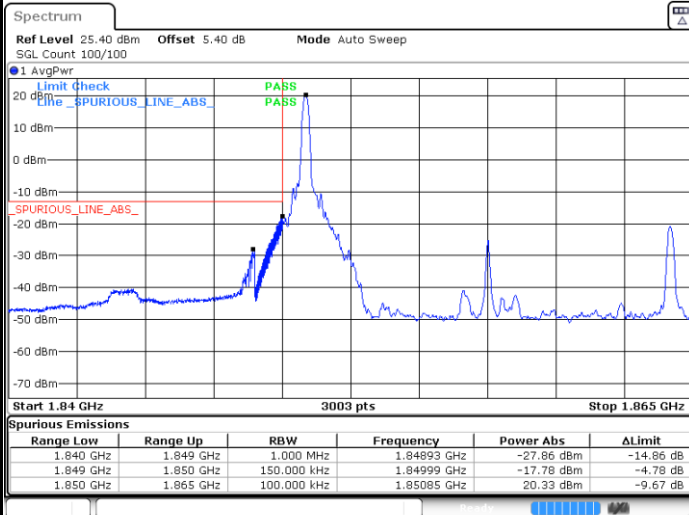
Highest Band Edge / Full RB



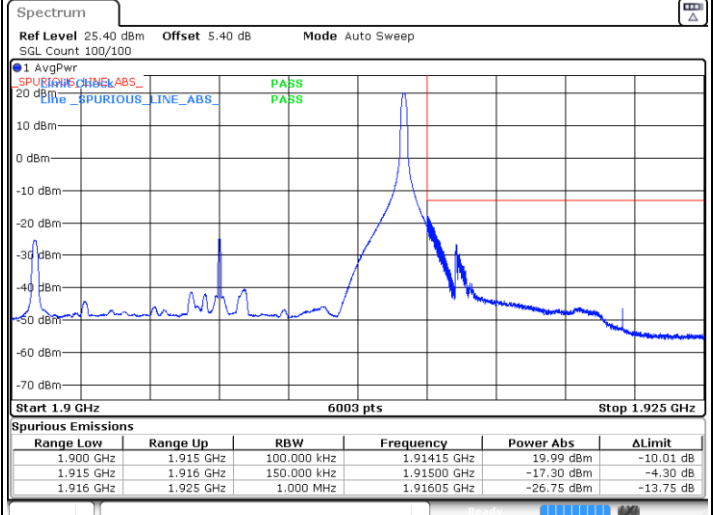


LTE Band 25 / 15MHz / QPSK

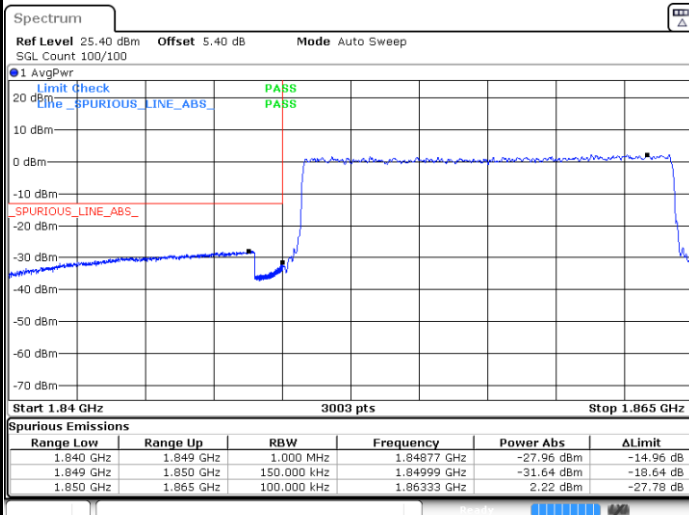
Lowest Band Edge / 1 RB



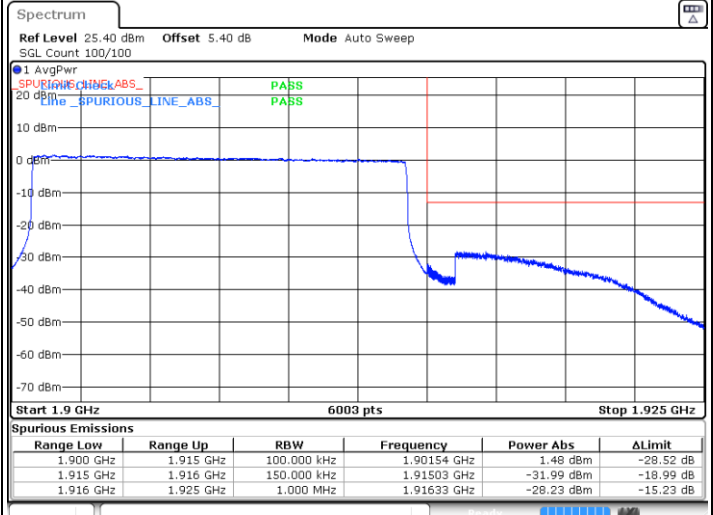
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



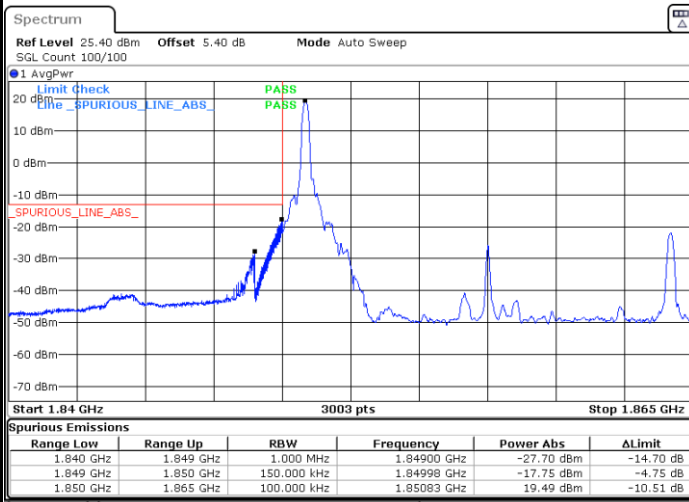
Highest Band Edge / Full RB



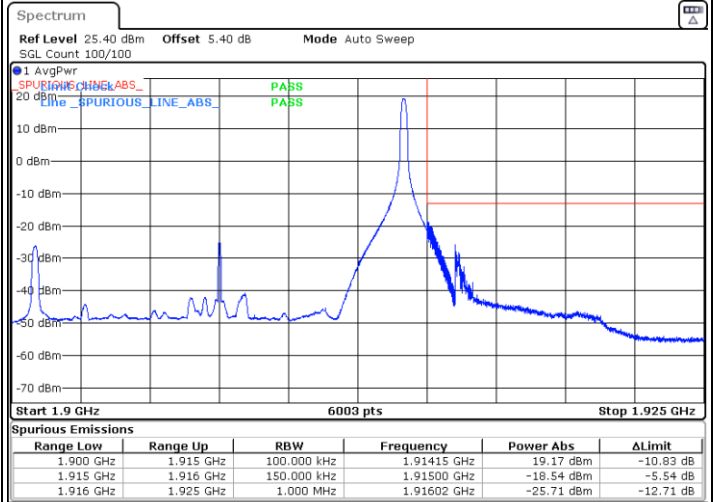


LTE Band 25 / 15MHz / 16QAM

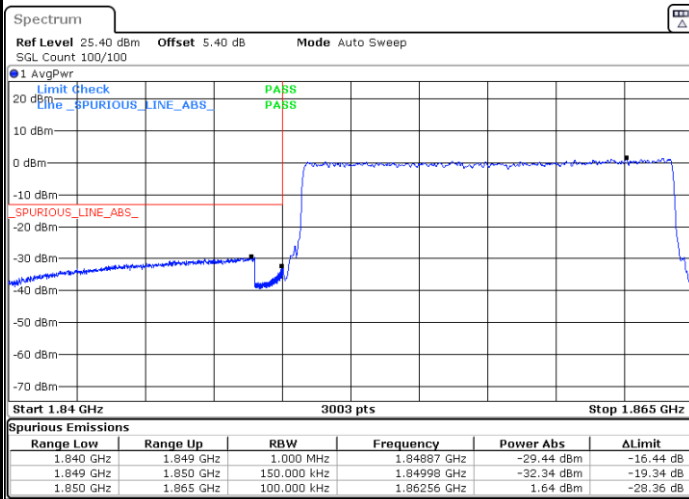
Lowest Band Edge / 1 RB



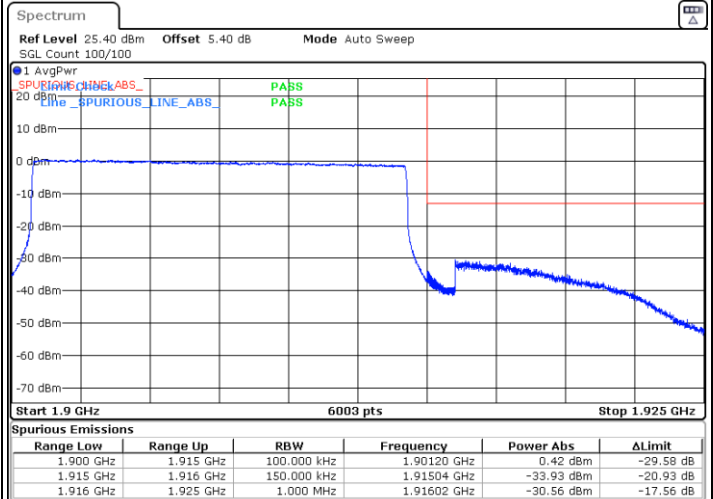
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



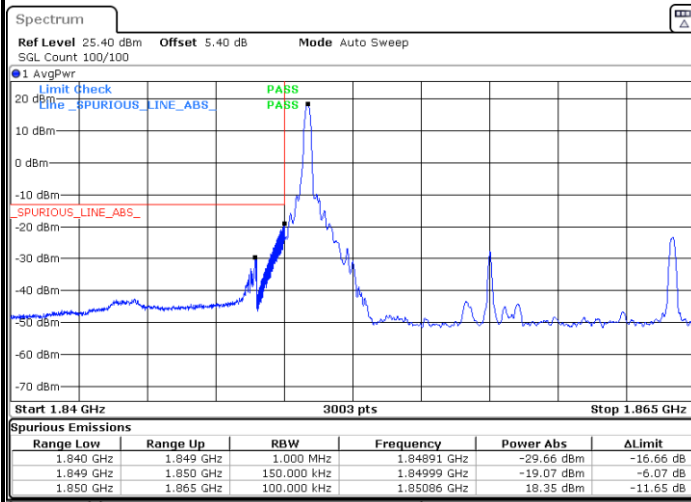
Highest Band Edge / Full RB



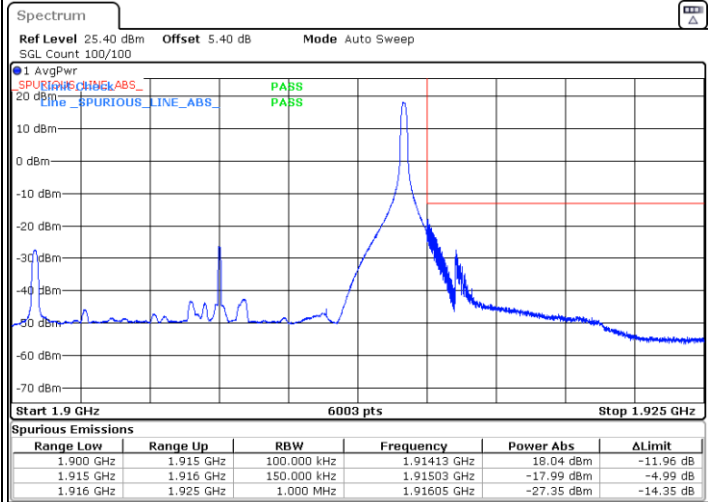


LTE Band 25 / 15MHz / 64QAM

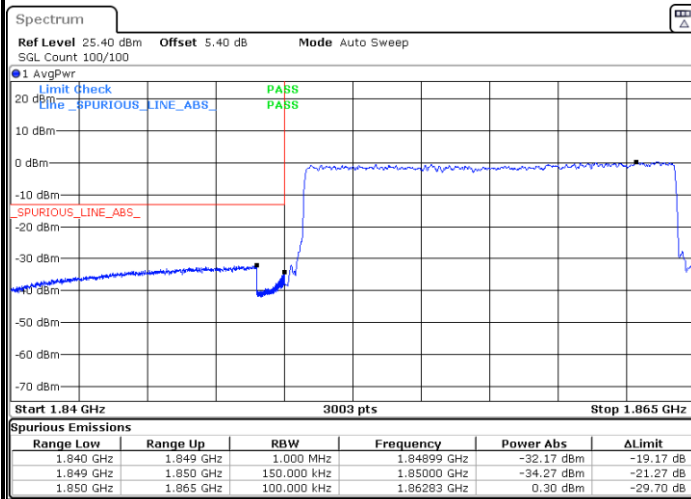
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

