



FCC RF Test Report

APPLICANT : VeriFone, Inc.
EQUIPMENT : Point of Sale Terminal
BRAND NAME : Verifone or VERIFONE or verifone
MODEL NAME : VM100
FCC ID : B32VM100
STANDARD : 47 CFR Part 22(H), 24(E), 27(L)
CLASSIFICATION : PCS Licensed Transmitter (PCB)
TEST DATE(S) : Apr. 09, 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
FG530703B	Rev. 01	Initial issue of report	Apr. 29, 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) §27.50(h)(2)	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+10log10(P[Watts])	PASS	Under limit 10.92 dB at 5280.00 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/manufacture 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

VeriFone, Inc.

1400 West Stanford Ranch Road Suite 150 Rocklin CA 95765 USA

1.2 Manufacturer

VeriFone, Inc.

1400 West Stanford Ranch Road Suite 150 Rocklin CA 95765 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Point of Sale Terminal
Brand Name	Verifone or VERIFONE or verifone
Model Name	VM100
FCC ID	B32VM100
SN Code	Conducted: 713-009-541 Radiation: 713-009-567
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 : 21.07 dBm LTE Band 4 : 20.86 dBm LTE Band 5 : 22.45 dBm LTE Band 25 : 21.14 dBm LTE Band 26 : 22.47 dBm LTE Band 66 : 21.05 dBm
Antenna Gain	LTE Band 2 : 0.4 dBi LTE Band 4 : 0.7 dBi LTE Band 5 : -0.1 dBi LTE Band 25 : 0.4 dBi LTE Band 26 : -0.1 dBi LTE Band 66 : 0.7 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 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	0.1390	1M09G7D	0.1374	1M10W7D
3	1851.5 ~ 1908.5	0.1384	2M72G7D	0.1009	2M72W7D
5	1852.5 ~ 1907.5	0.1374	4M49G7D	0.1009	4M49W7D
10	1855.0 ~ 1905.0	0.1384	9M01G7D	0.1009	8M99W7D
15	1857.5 ~ 1902.5	0.1390	13M4G7D	0.1012	13M4W7D
20	1860.0 ~ 1900.0	0.1403	17M8G7D	0.1033	17M8W7D
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	0.1340	1M09G7D	0.1334	1M10W7D
3	1851.5 ~ 1913.5	0.1400	2M72G7D	0.1175	2M72W7D
5	1852.5 ~ 1912.5	0.1409	4M49G7D	0.1169	4M49W7D
10	1855.0 ~ 1910.0	0.1400	9M01G7D	0.1159	8M99W7D
15	1857.5 ~ 1907.5	0.1416	13M4G7D	0.1175	13M4W7D
20	1860.0 ~ 1905.0	0.1426	17M8G7D	0.1189	17M8W7D
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	0.1422	1M09G7D	0.1109	1M09W7D
3	1711.5 ~ 1753.5	0.1422	2M72G7D	0.1089	2M70W7D
5	1712.5 ~ 1752.5	0.1413	4M48G7D	0.1089	4M47W7D
10	1715.0 ~ 1750.0	0.1419	9M09G7D	0.1089	8M99W7D
15	1717.5 ~ 1747.5	0.1422	13M4G7D	0.1089	13M4W7D
20	1720.0 ~ 1745.0	0.1432	17M9G7D	0.1089	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	0.1028	1M09G7D	0.0817	1M09W7D
3	825.5 ~ 847.5	0.1030	2M71G7D	0.0776	2M70W7D
5	826.5 ~ 846.5	0.1023	4M49G7D	0.0773	4M48W7D
10	829.0 ~ 844.0	0.1047	8M97G7D	0.0794	9M05W7D



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	0.1030	1M09G7D	0.0778	1M09W7D
3	825.5 ~ 847.5	0.1038	2M71G7D	0.0776	2M70W7D
5	826.5 ~ 846.5	0.1042	4M49G7D	0.0780	4M48W7D
10	829.0 ~ 844.0	0.1028	8M97G7D	0.0782	9M05W7D
15	831.5 ~ 841.5	0.1052	13M4G7D	0.0787	13M4W7D
CH26790	824.0	0.1052	13M4G7D	0.0787	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	0.1479	1M09G7D	0.1114	1M09W7D
3	1711.5 ~ 1778.5	0.1462	2M72G7D	0.1114	2M70W7D
5	1712.5 ~ 1777.5	0.1459	4M48G7D	0.1117	4M47W7D
10	1715.0 ~ 1775.0	0.1472	9M09G7D	0.1114	8M99W7D
15	1717.5 ~ 1772.5	0.1483	13M4G7D	0.1119	13M4W7D
20	1720.0 ~ 1770.0	0.1496	17M9G7D	0.1135	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	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 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

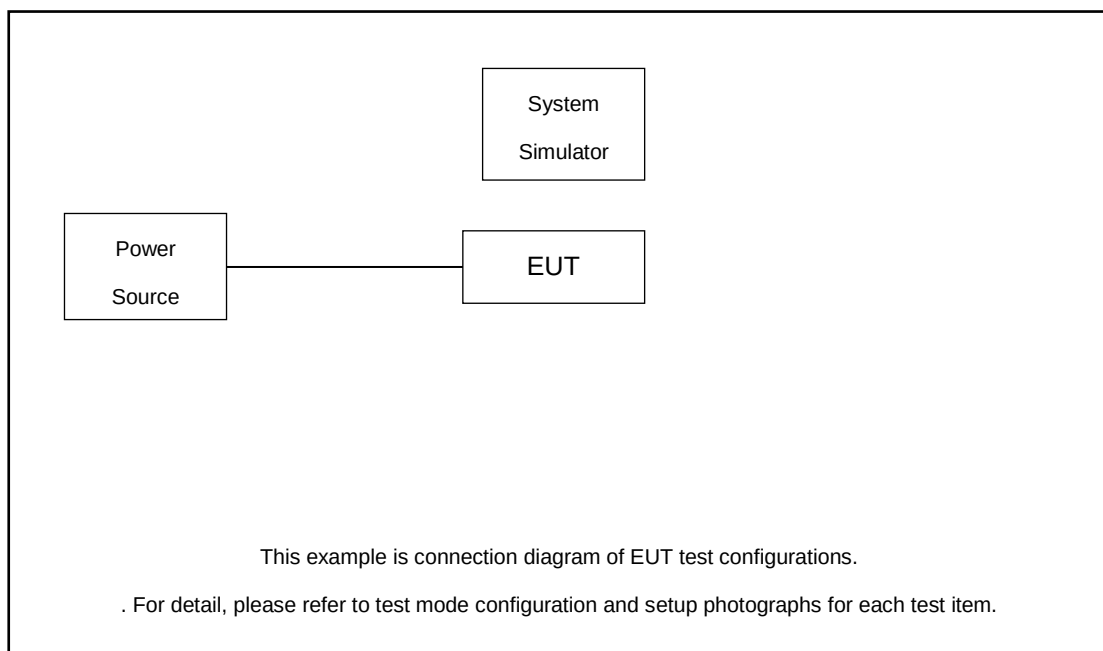
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission. (Y/Z Plane)

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	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-Ave rage 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	

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
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

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

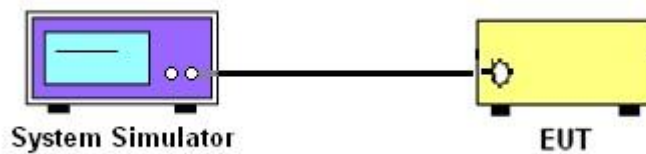
3 Conducted Test Items

3.1 Measuring Instruments

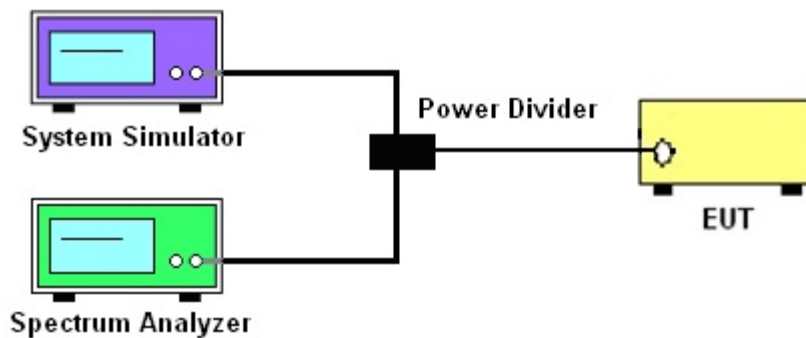
See list of measuring instruments of this test report.

3.2 Test Setup

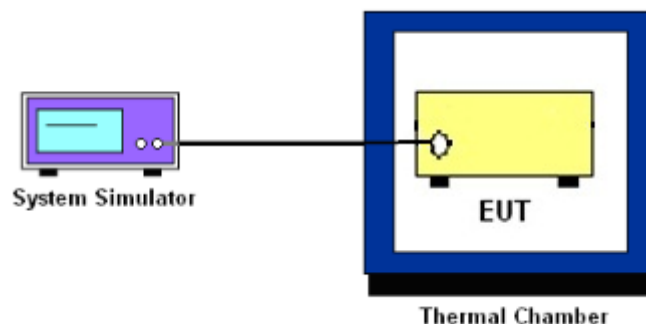
3.2.1 Conducted Output Power



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 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. 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)

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

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

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

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.

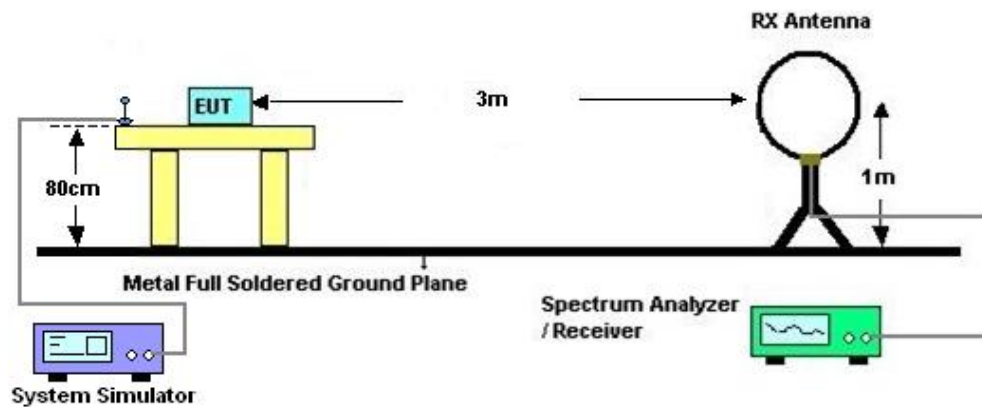
4 Radiated Test Items

4.1 Measuring Instruments

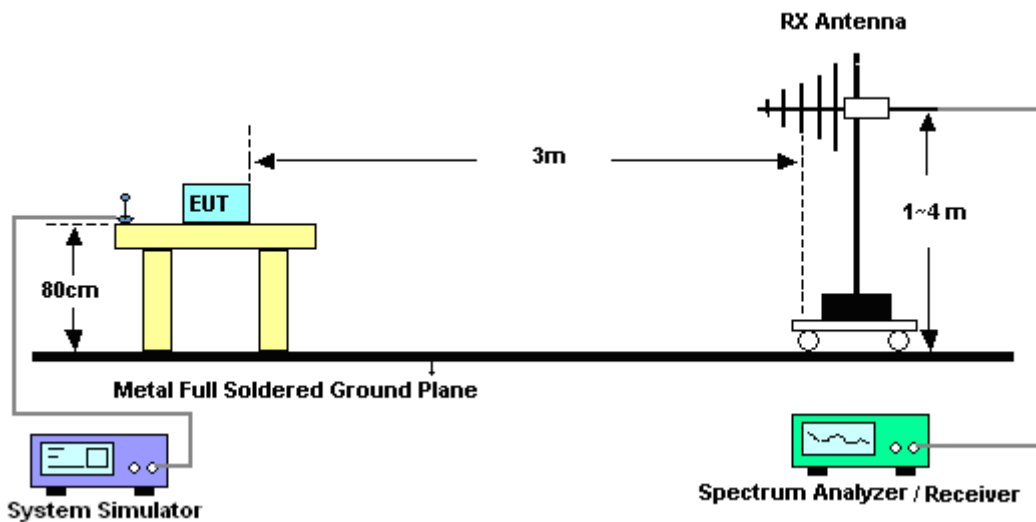
See list of measuring instruments of this test report.

4.2 Test Setup

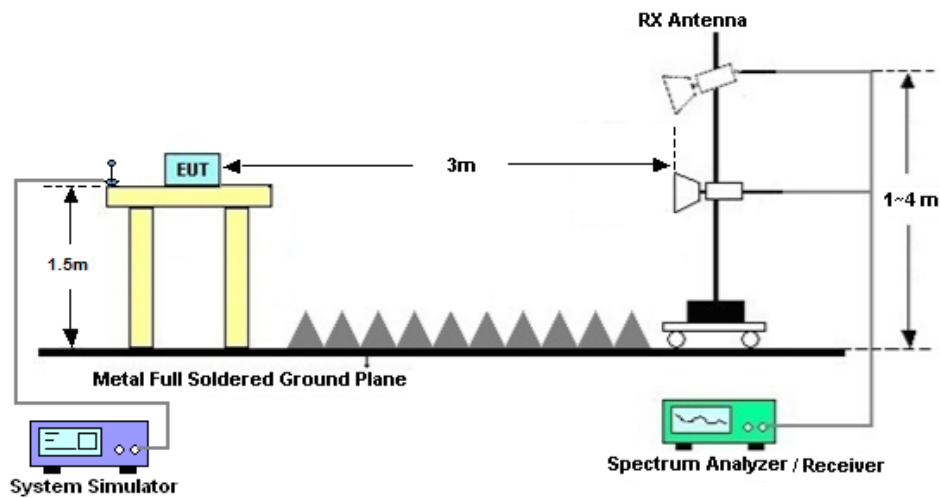
4.2.1 For radiated test below 30MHz



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	Apr. 09, 2025~ Apr. 10, 2025	Oct. 09, 2025	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Apr. 09, 2025~ Apr. 10, 2025	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 04, 2024	Apr. 09, 2025~ Apr. 10, 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

Conducted Spurious Emission & Bandedge	±2.22 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.50 dB
Peak to Average Ratio	±0.90 dB
Frequency Stability	±0.04 ppm

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	21.03	21.07	21.06	0.1390	0.1403	0.1400
20	QPSK	1	49	20.91	21.01	20.90	0.1352	0.1384	0.1349
20	QPSK	1	99	20.83	20.96	20.88	0.1327	0.1368	0.1343
20	QPSK	50	0	20.01	20.05	19.93	0.1099	0.1109	0.1079
20	QPSK	50	24	19.91	20.01	19.93	0.1074	0.1099	0.1079
20	QPSK	50	50	19.93	19.98	19.93	0.1079	0.1091	0.1079
20	QPSK	100	0	20.00	20.06	20.02	0.1096	0.1112	0.1102
20	16QAM	1	0	19.61	19.71	19.67	0.1002	0.1026	0.1016
20	16QAM	1	49	19.61	19.65	19.54	0.1002	0.1012	0.0986
20	16QAM	1	99	19.64	19.74	19.67	0.1009	0.1033	0.1016
20	16QAM	50	0	18.92	19.01	18.94	0.0855	0.0873	0.0859
20	16QAM	50	24	18.88	19.00	18.92	0.0847	0.0871	0.0855
20	16QAM	50	50	18.88	18.96	18.89	0.0847	0.0863	0.0849
20	16QAM	100	0	19.02	19.06	18.96	0.0875	0.0883	0.0863
20	64QAM	1	0	18.88	19.00	18.87	0.0847	0.0871	0.0845
20	64QAM	1	49	18.90	18.97	18.90	0.0851	0.0865	0.0851
20	64QAM	1	99	18.81	18.92	18.86	0.0834	0.0855	0.0843
20	64QAM	50	0	18.43	18.50	18.40	0.0764	0.0776	0.0759
20	64QAM	50	24	18.35	18.48	18.40	0.0750	0.0773	0.0759
20	64QAM	50	50	18.30	18.42	18.30	0.0741	0.0762	0.0741
20	64QAM	100	0	18.27	18.40	18.35	0.0736	0.0759	0.0750
Channel				18675	18900	19125	18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5	1857.5	1880	1902.5
15	QPSK	1	0	20.98	21.03	21.02	0.1374	0.1390	0.1387
15	QPSK	1	37	20.83	20.90	20.78	0.1327	0.1349	0.1312
15	QPSK	1	74	20.76	20.88	20.75	0.1306	0.1343	0.1303
15	QPSK	36	0	19.91	19.98	19.88	0.1074	0.1091	0.1067
15	QPSK	36	20	19.86	19.90	19.86	0.1062	0.1072	0.1062
15	QPSK	36	39	19.84	19.85	19.82	0.1057	0.1059	0.1052
15	QPSK	75	0	19.94	20.02	19.97	0.1081	0.1102	0.1089
15	16QAM	1	0	19.51	19.60	19.57	0.0979	0.1000	0.0993



15	16QAM	1	37	19.57	19.56	19.61	0.0993	0.0991	0.1002
15	16QAM	1	74	19.55	19.65	19.62	0.0989	0.1012	0.1005
15	16QAM	36	0	18.88	18.88	18.83	0.0847	0.0847	0.0838
15	16QAM	36	20	18.81	18.96	18.80	0.0834	0.0863	0.0832
15	16QAM	36	39	18.82	18.91	18.84	0.0836	0.0853	0.0839
15	16QAM	75	0	18.97	18.95	18.91	0.0865	0.0861	0.0853
15	64QAM	1	0	18.76	18.89	18.75	0.0824	0.0849	0.0822
15	64QAM	1	37	18.78	18.86	18.81	0.0828	0.0843	0.0834
15	64QAM	1	74	18.68	18.83	18.83	0.0809	0.0838	0.0838
15	64QAM	36	0	18.33	18.42	18.31	0.0746	0.0762	0.0743
15	64QAM	36	20	18.29	18.43	18.34	0.0740	0.0764	0.0748
15	64QAM	36	39	18.24	18.32	18.21	0.0731	0.0745	0.0726
15	64QAM	75	0	18.21	18.34	18.25	0.0726	0.0748	0.0733
Channel				18650	18900	19150	18650	18900	19150
Frequency (MHz)				1855	1880	1905	1855	1880	1905
10	QPSK	1	0	20.94	21.01	20.94	0.1361	0.1384	0.1361
10	QPSK	1	25	20.84	20.91	20.78	0.1330	0.1352	0.1312
10	QPSK	1	49	20.73	20.89	20.77	0.1297	0.1346	0.1309
10	QPSK	25	0	19.92	19.95	19.87	0.1076	0.1084	0.1064
10	QPSK	25	12	19.85	19.97	19.85	0.1059	0.1089	0.1059
10	QPSK	25	25	19.84	19.93	19.82	0.1057	0.1079	0.1052
10	QPSK	50	0	19.88	19.94	19.98	0.1067	0.1081	0.1091
10	16QAM	1	0	19.61	19.64	19.61	0.1002	0.1009	0.1002
10	16QAM	1	25	19.55	19.53	19.61	0.0989	0.0984	0.1002
10	16QAM	1	49	19.52	19.63	19.56	0.0982	0.1007	0.0991
10	16QAM	25	0	18.82	18.92	18.83	0.0836	0.0855	0.0838
10	16QAM	25	12	18.83	18.88	18.88	0.0838	0.0847	0.0847
10	16QAM	25	25	18.78	18.89	18.85	0.0828	0.0849	0.0841
10	16QAM	50	0	18.96	18.95	18.92	0.0863	0.0861	0.0855
10	64QAM	1	0	18.84	18.94	18.76	0.0839	0.0859	0.0824
10	64QAM	1	25	18.85	18.90	18.85	0.0841	0.0851	0.0841
10	64QAM	1	49	18.72	18.79	18.75	0.0817	0.0830	0.0822
10	64QAM	25	0	18.31	18.44	18.28	0.0743	0.0766	0.0738
10	64QAM	25	12	18.30	18.40	18.33	0.0741	0.0759	0.0746
10	64QAM	25	25	18.17	18.33	18.23	0.0719	0.0746	0.0729
10	64QAM	50	0	18.23	18.36	18.25	0.0729	0.0752	0.0733
Channel				18625	18900	19175	18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5	1852.5	1880	1907.5
5	QPSK	1	0	20.97	20.98	20.96	0.1371	0.1374	0.1368
5	QPSK	1	12	20.81	20.98	20.79	0.1321	0.1374	0.1315
5	QPSK	1	24	20.74	20.88	20.76	0.1300	0.1343	0.1306
5	QPSK	12	0	19.94	19.97	19.84	0.1081	0.1089	0.1057
5	QPSK	12	7	19.82	19.94	19.87	0.1052	0.1081	0.1064
5	QPSK	12	13	19.84	19.91	19.88	0.1057	0.1074	0.1067
5	QPSK	25	0	19.96	19.99	19.91	0.1086	0.1094	0.1074
5	16QAM	1	0	19.55	19.64	19.63	0.0989	0.1009	0.1007
5	16QAM	1	12	19.50	19.56	19.61	0.0977	0.0991	0.1002



5	16QAM	1	24	19.51	19.62	19.60	0.0979	0.1005	0.1000
5	16QAM	12	0	18.82	18.89	18.91	0.0836	0.0849	0.0853
5	16QAM	12	7	18.75	18.93	18.89	0.0822	0.0857	0.0849
5	16QAM	12	13	18.81	18.83	18.77	0.0834	0.0838	0.0826
5	16QAM	25	0	18.93	18.94	18.88	0.0857	0.0859	0.0847
5	64QAM	1	0	18.83	18.95	18.81	0.0838	0.0861	0.0834
5	64QAM	1	12	18.80	18.85	18.77	0.0832	0.0841	0.0826
5	64QAM	1	24	18.73	18.84	18.82	0.0818	0.0839	0.0836
5	64QAM	12	0	18.34	18.43	18.30	0.0748	0.0764	0.0741
5	64QAM	12	7	18.25	18.43	18.34	0.0733	0.0764	0.0748
5	64QAM	12	13	18.23	18.33	18.22	0.0729	0.0746	0.0728
5	64QAM	25	0	18.23	18.36	18.23	0.0729	0.0752	0.0729
Channel				18615	18900	19185	18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5	1851.5	1880	1908.5
3	QPSK	1	0	20.91	21.01	20.98	0.1352	0.1384	0.1374
3	QPSK	1	8	20.83	20.92	20.82	0.1327	0.1355	0.1324
3	QPSK	1	14	20.77	20.88	20.81	0.1309	0.1343	0.1321
3	QPSK	8	0	19.95	19.93	19.85	0.1084	0.1079	0.1059
3	QPSK	8	4	19.79	19.91	19.83	0.1045	0.1074	0.1054
3	QPSK	8	7	19.88	19.86	19.88	0.1067	0.1062	0.1067
3	QPSK	15	0	19.91	19.98	19.92	0.1074	0.1091	0.1076
3	16QAM	1	0	19.52	19.59	19.61	0.0982	0.0998	0.1002
3	16QAM	1	8	19.54	19.55	19.61	0.0986	0.0989	0.1002
3	16QAM	1	14	19.60	19.64	19.62	0.1000	0.1009	0.1005
3	16QAM	8	0	18.84	18.90	18.82	0.0839	0.0851	0.0836
3	16QAM	8	4	18.84	18.94	18.84	0.0839	0.0859	0.0839
3	16QAM	8	7	18.81	18.84	18.79	0.0834	0.0839	0.0830
3	16QAM	15	0	18.99	18.96	18.84	0.0869	0.0863	0.0839
3	64QAM	1	0	18.85	18.96	18.77	0.0841	0.0863	0.0826
3	64QAM	1	8	18.87	18.88	18.86	0.0845	0.0847	0.0843
3	64QAM	1	14	18.72	18.79	18.82	0.0817	0.0830	0.0836
3	64QAM	8	0	18.33	18.40	18.36	0.0746	0.0759	0.0752
3	64QAM	8	4	18.26	18.39	18.35	0.0735	0.0757	0.0750
3	64QAM	8	7	18.26	18.38	18.25	0.0735	0.0755	0.0733
3	64QAM	15	0	18.16	18.29	18.22	0.0718	0.0740	0.0728
Channel				18607	18900	19193	18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3	1850.7	1880	1909.3
1.4	QPSK	1	0	20.95	21.03	20.98	0.1365	0.1390	0.1374
1.4	QPSK	1	3	20.81	20.91	20.80	0.1321	0.1352	0.1318
1.4	QPSK	1	5	20.79	20.89	20.80	0.1315	0.1346	0.1318
1.4	QPSK	3	0	20.97	20.96	20.94	0.1371	0.1368	0.1361
1.4	QPSK	3	1	20.81	20.95	20.79	0.1321	0.1365	0.1315
1.4	QPSK	3	3	20.75	20.83	20.81	0.1303	0.1327	0.1321
1.4	QPSK	6	0	19.88	19.97	19.98	0.1067	0.1089	0.1091
1.4	16QAM	1	0	20.92	20.96	20.95	0.1355	0.1368	0.1365
1.4	16QAM	1	3	20.85	20.98	20.85	0.1334	0.1374	0.1334
1.4	16QAM	1	5	20.78	20.92	20.77	0.1312	0.1355	0.1309



1.4	16QAM	3	0	19.94	19.96	19.89	0.1081	0.1086	0.1069
1.4	16QAM	3	1	19.81	19.95	19.89	0.1050	0.1084	0.1069
1.4	16QAM	3	3	19.87	19.90	19.89	0.1064	0.1072	0.1069
1.4	16QAM	6	0	18.89	18.93	18.84	0.0849	0.0857	0.0839
1.4	64QAM	1	0	18.78	18.90	18.79	0.0828	0.0851	0.0830
1.4	64QAM	1	3	18.77	18.93	18.83	0.0826	0.0857	0.0838
1.4	64QAM	1	5	18.75	18.85	18.78	0.0822	0.0841	0.0828
1.4	64QAM	3	0	18.85	18.96	18.86	0.0841	0.0863	0.0843
1.4	64QAM	3	1	18.80	18.91	18.83	0.0832	0.0853	0.0838
1.4	64QAM	3	3	18.85	18.84	18.85	0.0841	0.0839	0.0841
1.4	64QAM	6	0	18.16	18.33	18.29	0.0718	0.0746	0.0740

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	20.80	20.86	20.74	0.1413	0.1432	0.1393
20	QPSK	1	49	20.66	20.77	20.70	0.1368	0.1403	0.1380
20	QPSK	1	99	20.77	20.78	20.77	0.1403	0.1406	0.1403
20	QPSK	50	0	19.73	19.78	19.69	0.1104	0.1117	0.1094
20	QPSK	50	24	19.69	19.73	19.65	0.1094	0.1104	0.1084
20	QPSK	50	50	19.69	19.74	19.72	0.1094	0.1107	0.1102
20	QPSK	100	0	19.64	19.73	19.68	0.1081	0.1104	0.1091
20	16QAM	1	0	19.65	19.65	19.62	0.1084	0.1084	0.1076
20	16QAM	1	49	19.67	19.64	19.66	0.1089	0.1081	0.1086
20	16QAM	1	99	19.65	19.63	19.64	0.1084	0.1079	0.1081
20	16QAM	50	0	18.74	18.94	18.89	0.0879	0.0920	0.0910
20	16QAM	50	24	18.74	18.91	18.78	0.0879	0.0914	0.0887
20	16QAM	50	50	18.80	18.89	18.80	0.0891	0.0910	0.0891
20	16QAM	100	0	18.83	18.87	18.88	0.0897	0.0906	0.0908
20	64QAM	1	0	18.67	18.80	18.69	0.0865	0.0891	0.0869
20	64QAM	1	49	18.61	18.74	18.64	0.0853	0.0879	0.0859
20	64QAM	1	99	18.61	18.65	18.64	0.0853	0.0861	0.0859
20	64QAM	50	0	18.30	18.36	18.34	0.0794	0.0805	0.0802
20	64QAM	50	24	18.27	18.28	18.27	0.0789	0.0791	0.0789
20	64QAM	50	50	18.24	18.27	18.19	0.0783	0.0789	0.0774
20	64QAM	100	0	18.21	18.30	18.20	0.0778	0.0794	0.0776
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	20.76	20.83	20.70	0.1400	0.1422	0.1380
15	QPSK	1	37	20.64	20.74	20.68	0.1361	0.1393	0.1374
15	QPSK	1	74	20.74	20.75	20.72	0.1393	0.1396	0.1387
15	QPSK	36	0	19.67	19.72	19.66	0.1089	0.1102	0.1086
15	QPSK	36	20	19.64	19.71	19.61	0.1081	0.1099	0.1074
15	QPSK	36	39	19.64	19.70	19.68	0.1081	0.1096	0.1091



15	QPSK	75	0	19.67	19.69	19.64	0.1089	0.1094	0.1081
15	16QAM	1	0	19.60	19.67	19.67	0.1072	0.1089	0.1089
15	16QAM	1	37	19.62	19.67	19.60	0.1076	0.1089	0.1072
15	16QAM	1	74	19.63	19.67	19.61	0.1079	0.1089	0.1074
15	16QAM	36	0	18.70	18.89	18.87	0.0871	0.0910	0.0906
15	16QAM	36	20	18.68	18.89	18.74	0.0867	0.0910	0.0879
15	16QAM	36	39	18.78	18.84	18.77	0.0887	0.0899	0.0885
15	16QAM	75	0	18.78	18.82	18.83	0.0887	0.0895	0.0897
15	64QAM	1	0	18.61	18.76	18.67	0.0853	0.0883	0.0865
15	64QAM	1	37	18.65	18.71	18.61	0.0861	0.0873	0.0853
15	64QAM	1	74	18.68	18.60	18.64	0.0867	0.0851	0.0859
15	64QAM	36	0	18.26	18.32	18.29	0.0787	0.0798	0.0793
15	64QAM	36	20	18.25	18.25	18.22	0.0785	0.0785	0.0780
15	64QAM	36	39	18.19	18.24	18.15	0.0774	0.0783	0.0767
15	64QAM	75	0	18.17	18.25	18.15	0.0771	0.0785	0.0767
Channel				20000	20175	20350	20000	20175	20350
Frequency (MHz)				1715	1732.5	1750	1715	1732.5	1750
10	QPSK	1	0	20.74	20.82	20.72	0.1393	0.1419	0.1387
10	QPSK	1	25	20.64	20.75	20.67	0.1361	0.1396	0.1371
10	QPSK	1	49	20.73	20.76	20.73	0.1390	0.1400	0.1390
10	QPSK	25	0	19.69	19.75	19.66	0.1094	0.1109	0.1086
10	QPSK	25	12	19.63	19.68	19.61	0.1079	0.1091	0.1074
10	QPSK	25	25	19.65	19.68	19.69	0.1084	0.1091	0.1094
10	QPSK	50	0	19.67	19.71	19.62	0.1089	0.1099	0.1076
10	16QAM	1	0	19.63	19.63	19.67	0.1079	0.1079	0.1089
10	16QAM	1	25	19.61	19.61	19.64	0.1074	0.1074	0.1081
10	16QAM	1	49	19.61	19.67	19.60	0.1074	0.1089	0.1072
10	16QAM	25	0	18.69	18.89	18.85	0.0869	0.0910	0.0902
10	16QAM	25	12	18.70	18.88	18.73	0.0871	0.0908	0.0877
10	16QAM	25	25	18.78	18.85	18.76	0.0887	0.0902	0.0883
10	16QAM	50	0	18.80	18.82	18.84	0.0891	0.0895	0.0899
10	64QAM	1	0	18.65	18.78	18.66	0.0861	0.0887	0.0863
10	64QAM	1	25	18.69	18.70	18.69	0.0869	0.0871	0.0869
10	64QAM	1	49	18.67	18.61	18.63	0.0865	0.0853	0.0857
10	64QAM	25	0	18.27	18.32	18.31	0.0789	0.0798	0.0796
10	64QAM	25	12	18.23	18.25	18.24	0.0782	0.0785	0.0783
10	64QAM	25	25	18.21	18.24	18.17	0.0778	0.0783	0.0771
10	64QAM	50	0	18.15	18.28	18.17	0.0767	0.0791	0.0771
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	20.76	20.80	20.70	0.1400	0.1413	0.1380
5	QPSK	1	12	20.61	20.75	20.66	0.1352	0.1396	0.1368
5	QPSK	1	24	20.74	20.73	20.75	0.1393	0.1390	0.1396
5	QPSK	12	0	19.69	19.75	19.65	0.1094	0.1109	0.1084
5	QPSK	12	7	19.65	19.68	19.61	0.1084	0.1091	0.1074
5	QPSK	12	13	19.65	19.70	19.68	0.1084	0.1096	0.1091
5	QPSK	25	0	19.60	19.70	19.66	0.1072	0.1096	0.1086



5	16QAM	1	0	19.60	19.67	19.60	0.1072	0.1089	0.1072
5	16QAM	1	12	19.62	19.60	19.62	0.1076	0.1072	0.1076
5	16QAM	1	24	19.62	19.67	19.67	0.1076	0.1089	0.1089
5	16QAM	12	0	18.68	18.91	18.87	0.0867	0.0914	0.0906
5	16QAM	12	7	18.72	18.87	18.74	0.0875	0.0906	0.0879
5	16QAM	12	13	18.76	18.86	18.77	0.0883	0.0904	0.0885
5	16QAM	25	0	18.80	18.83	18.85	0.0891	0.0897	0.0902
5	64QAM	1	0	18.61	18.75	18.67	0.0853	0.0881	0.0865
5	64QAM	1	12	18.67	18.69	18.60	0.0865	0.0869	0.0851
5	64QAM	1	24	18.68	18.61	18.64	0.0867	0.0853	0.0859
5	64QAM	12	0	18.25	18.31	18.31	0.0785	0.0796	0.0796
5	64QAM	12	7	18.21	18.24	18.22	0.0778	0.0783	0.0780
5	64QAM	12	13	18.19	18.24	18.16	0.0774	0.0783	0.0769
5	64QAM	25	0	18.16	18.26	18.16	0.0769	0.0787	0.0769
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	20.76	20.83	20.72	0.1400	0.1422	0.1387
3	QPSK	1	8	20.61	20.73	20.66	0.1352	0.1390	0.1368
3	QPSK	1	14	20.75	20.74	20.71	0.1396	0.1393	0.1384
3	QPSK	8	0	19.70	19.72	19.66	0.1096	0.1102	0.1086
3	QPSK	8	4	19.67	19.70	19.67	0.1089	0.1096	0.1089
3	QPSK	8	7	19.67	19.71	19.67	0.1089	0.1099	0.1089
3	QPSK	15	0	19.60	19.70	19.64	0.1072	0.1096	0.1081
3	16QAM	1	0	19.63	19.62	19.67	0.1079	0.1076	0.1089
3	16QAM	1	8	19.63	19.62	19.63	0.1079	0.1076	0.1079
3	16QAM	1	14	19.62	19.67	19.67	0.1076	0.1089	0.1089
3	16QAM	8	0	18.71	18.89	18.86	0.0873	0.0910	0.0904
3	16QAM	8	4	18.69	18.89	18.74	0.0869	0.0910	0.0879
3	16QAM	8	7	18.74	18.83	18.77	0.0879	0.0897	0.0885
3	16QAM	15	0	18.80	18.84	18.85	0.0891	0.0899	0.0902
3	64QAM	1	0	18.63	18.77	18.65	0.0857	0.0885	0.0861
3	64QAM	1	8	18.69	18.70	18.60	0.0869	0.0871	0.0851
3	64QAM	1	14	18.65	18.61	18.67	0.0861	0.0853	0.0865
3	64QAM	8	0	18.26	18.33	18.30	0.0787	0.0800	0.0794
3	64QAM	8	4	18.25	18.24	18.23	0.0785	0.0783	0.0782
3	64QAM	8	7	18.21	18.21	18.14	0.0778	0.0778	0.0766
3	64QAM	15	0	18.18	18.27	18.16	0.0773	0.0789	0.0769
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	20.74	20.83	20.72	0.1393	0.1422	0.1387
1.4	QPSK	1	3	20.61	20.73	20.65	0.1352	0.1390	0.1365
1.4	QPSK	1	5	20.75	20.74	20.73	0.1396	0.1393	0.1390
1.4	QPSK	3	0	20.78	20.81	20.70	0.1406	0.1416	0.1380
1.4	QPSK	3	1	20.61	20.72	20.65	0.1352	0.1387	0.1365
1.4	QPSK	3	3	20.74	20.72	20.72	0.1393	0.1387	0.1387
1.4	QPSK	6	0	19.75	19.70	19.63	0.1109	0.1096	0.1079
1.4	16QAM	1	0	19.70	19.75	19.64	0.1096	0.1109	0.1081



1.4	16QAM	1	3	19.63	19.69	19.60	0.1079	0.1094	0.1072
1.4	16QAM	1	5	19.64	19.69	19.66	0.1081	0.1094	0.1086
1.4	16QAM	3	0	19.70	19.75	19.64	0.1096	0.1109	0.1081
1.4	16QAM	3	1	19.63	19.69	19.60	0.1079	0.1094	0.1072
1.4	16QAM	3	3	19.64	19.69	19.66	0.1081	0.1094	0.1086
1.4	16QAM	6	0	18.78	18.82	18.86	0.0887	0.0895	0.0904
1.4	64QAM	1	0	18.64	18.76	18.64	0.0859	0.0883	0.0859
1.4	64QAM	1	3	18.66	18.69	18.69	0.0863	0.0869	0.0869
1.4	64QAM	1	5	18.68	18.62	18.66	0.0867	0.0855	0.0863
1.4	64QAM	3	0	18.77	18.82	18.82	0.0885	0.0895	0.0895
1.4	64QAM	3	1	18.72	18.74	18.72	0.0875	0.0879	0.0875
1.4	64QAM	3	3	18.68	18.74	18.66	0.0867	0.0879	0.0863
1.4	64QAM	6	0	18.17	18.27	18.17	0.0771	0.0789	0.0771

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	22.38	22.45	22.41	0.1030	0.1047	0.1038
10	QPSK	1	25	22.21	22.33	22.25	0.0991	0.1019	0.1000
10	QPSK	1	49	22.25	22.36	22.23	0.1000	0.1026	0.0995
10	QPSK	25	0	21.33	21.45	21.33	0.0809	0.0832	0.0809
10	QPSK	25	12	21.36	21.40	21.35	0.0815	0.0822	0.0813
10	QPSK	25	25	21.28	21.40	21.28	0.0800	0.0822	0.0800
10	QPSK	50	0	21.41	21.49	21.42	0.0824	0.0839	0.0826
10	16QAM	1	0	21.13	21.25	21.14	0.0773	0.0794	0.0774
10	16QAM	1	25	21.05	21.17	21.11	0.0759	0.0780	0.0769
10	16QAM	1	49	21.09	21.16	21.11	0.0766	0.0778	0.0769
10	16QAM	25	0	20.10	20.20	20.09	0.0610	0.0624	0.0608
10	16QAM	25	12	20.06	20.13	20.03	0.0604	0.0614	0.0600
10	16QAM	25	25	20.07	20.12	20.00	0.0605	0.0612	0.0596
10	16QAM	50	0	20.40	20.49	20.44	0.0653	0.0667	0.0659
10	64QAM	1	0	20.42	20.54	20.48	0.0656	0.0675	0.0665
10	64QAM	1	25	20.35	20.41	20.34	0.0646	0.0655	0.0644
10	64QAM	1	49	20.38	20.47	20.36	0.0650	0.0664	0.0647
10	64QAM	25	0	19.90	19.98	19.93	0.0582	0.0593	0.0586
10	64QAM	25	12	19.78	19.91	19.85	0.0566	0.0583	0.0575
10	64QAM	25	25	19.84	19.94	19.81	0.0574	0.0587	0.0570
10	64QAM	50	0	19.88	20.00	19.94	0.0579	0.0596	0.0587
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	22.32	22.35	22.34	0.1016	0.1023	0.1021
5	QPSK	1	12	22.11	22.22	22.15	0.0968	0.0993	0.0977
5	QPSK	1	24	22.22	22.33	22.15	0.0993	0.1019	0.0977
5	QPSK	12	0	21.27	21.39	21.26	0.0798	0.0820	0.0796



5	QPSK	12	7	21.29	21.29	21.28	0.0802	0.0802	0.0800
5	QPSK	12	13	21.16	21.33	21.21	0.0778	0.0809	0.0787
5	QPSK	25	0	21.38	21.37	21.33	0.0818	0.0817	0.0809
5	16QAM	1	0	21.08	21.13	21.08	0.0764	0.0773	0.0764
5	16QAM	1	12	20.93	21.06	21.07	0.0738	0.0760	0.0762
5	16QAM	1	24	21.01	21.08	21.06	0.0752	0.0764	0.0760
5	16QAM	12	0	20.05	20.16	19.98	0.0603	0.0618	0.0593
5	16QAM	12	7	19.94	20.09	19.96	0.0587	0.0608	0.0590
5	16QAM	12	13	20.03	20.00	19.91	0.0600	0.0596	0.0583
5	16QAM	25	0	20.32	20.42	20.35	0.0641	0.0656	0.0646
5	64QAM	1	0	20.30	20.44	20.36	0.0638	0.0659	0.0647
5	64QAM	1	12	20.30	20.37	20.23	0.0638	0.0649	0.0628
5	64QAM	1	24	20.29	20.39	20.25	0.0637	0.0652	0.0631
5	64QAM	12	0	19.86	19.88	19.88	0.0577	0.0579	0.0579
5	64QAM	12	7	19.67	19.78	19.75	0.0552	0.0566	0.0562
5	64QAM	12	13	19.76	19.88	19.71	0.0564	0.0579	0.0557
5	64QAM	25	0	19.80	19.91	19.83	0.0569	0.0583	0.0573
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	22.27	22.38	22.33	0.1005	0.1030	0.1019
3	QPSK	1	8	22.16	22.24	22.15	0.0979	0.0998	0.0977
3	QPSK	1	14	22.18	22.28	22.14	0.0984	0.1007	0.0975
3	QPSK	8	0	21.21	21.42	21.28	0.0787	0.0826	0.0800
3	QPSK	8	4	21.23	21.29	21.27	0.0791	0.0802	0.0798
3	QPSK	8	7	21.20	21.37	21.24	0.0785	0.0817	0.0793
3	QPSK	15	0	21.30	21.41	21.31	0.0804	0.0824	0.0805
3	16QAM	1	0	21.03	21.15	21.04	0.0755	0.0776	0.0757
3	16QAM	1	8	20.96	21.14	21.07	0.0743	0.0774	0.0762
3	16QAM	1	14	20.99	21.12	21.00	0.0748	0.0771	0.0750
3	16QAM	8	0	20.05	20.16	19.96	0.0603	0.0618	0.0590
3	16QAM	8	4	19.98	20.06	19.90	0.0593	0.0604	0.0582
3	16QAM	8	7	19.95	20.06	19.96	0.0589	0.0604	0.0590
3	16QAM	15	0	20.28	20.37	20.34	0.0635	0.0649	0.0644
3	64QAM	1	0	20.32	20.46	20.42	0.0641	0.0662	0.0656
3	64QAM	1	8	20.31	20.32	20.26	0.0640	0.0641	0.0632
3	64QAM	1	14	20.28	20.37	20.26	0.0635	0.0649	0.0632
3	64QAM	8	0	19.85	19.92	19.88	0.0575	0.0585	0.0579
3	64QAM	8	4	19.66	19.87	19.78	0.0551	0.0578	0.0566
3	64QAM	8	7	19.73	19.87	19.68	0.0560	0.0578	0.0553
3	64QAM	15	0	19.83	19.88	19.85	0.0573	0.0579	0.0575
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	22.28	22.33	22.37	0.1007	0.1019	0.1028
1.4	QPSK	1	3	22.11	22.20	22.19	0.0968	0.0989	0.0986
1.4	QPSK	1	5	22.19	22.28	22.18	0.0986	0.1007	0.0984
1.4	QPSK	3	0	22.32	22.33	22.29	0.1016	0.1019	0.1009
1.4	QPSK	3	1	22.10	22.29	22.19	0.0966	0.1009	0.0986



1.4	QPSK	3	3	22.17	22.32	22.16	0.0982	0.1016	0.0979
1.4	QPSK	6	0	21.32	21.40	21.33	0.0807	0.0822	0.0809
1.4	16QAM	1	0	21.04	21.20	21.05	0.0757	0.0785	0.0759
1.4	16QAM	1	3	21.01	21.05	21.08	0.0752	0.0759	0.0764
1.4	16QAM	1	5	20.97	21.05	20.99	0.0745	0.0759	0.0748
1.4	16QAM	3	0	21.17	21.32	21.16	0.0780	0.0807	0.0778
1.4	16QAM	3	1	21.35	21.37	21.32	0.0813	0.0817	0.0807
1.4	16QAM	3	3	21.08	21.12	21.09	0.0764	0.0771	0.0766
1.4	16QAM	6	0	20.27	20.37	20.31	0.0634	0.0649	0.0640
1.4	64QAM	1	0	20.34	20.50	20.40	0.0644	0.0668	0.0653
1.4	64QAM	1	3	20.31	20.34	20.21	0.0640	0.0644	0.0625
1.4	64QAM	1	5	20.34	20.40	20.30	0.0644	0.0653	0.0638
1.4	64QAM	3	0	20.29	20.45	20.32	0.0637	0.0661	0.0641
1.4	64QAM	3	1	20.16	20.28	20.24	0.0618	0.0635	0.0630
1.4	64QAM	3	3	20.24	20.35	20.19	0.0630	0.0646	0.0622
1.4	64QAM	6	0	19.82	19.97	19.85	0.0571	0.0592	0.0575

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	21.01	21.14	21.05	0.1384	0.1426	0.1396
20	QPSK	1	49	20.96	21.04	20.91	0.1368	0.1393	0.1352
20	QPSK	1	99	20.99	21.02	20.90	0.1377	0.1387	0.1349
20	QPSK	50	0	20.04	20.13	20.04	0.1107	0.1130	0.1107
20	QPSK	50	24	19.97	20.07	19.96	0.1089	0.1114	0.1086
20	QPSK	50	50	19.92	20.03	20.00	0.1076	0.1104	0.1096
20	QPSK	100	0	20.16	20.19	20.14	0.1138	0.1146	0.1132
20	16QAM	1	0	20.25	20.35	20.28	0.1161	0.1189	0.1169
20	16QAM	1	49	20.16	20.29	20.17	0.1138	0.1172	0.1140
20	16QAM	1	99	20.20	20.29	20.18	0.1148	0.1172	0.1143
20	16QAM	50	0	19.03	19.15	19.12	0.0877	0.0902	0.0895
20	16QAM	50	24	18.98	19.05	19.01	0.0867	0.0881	0.0873
20	16QAM	50	50	19.00	19.05	18.94	0.0871	0.0881	0.0859
20	16QAM	100	0	19.20	19.24	19.21	0.0912	0.0920	0.0914
20	64QAM	1	0	18.98	19.11	19.05	0.0867	0.0893	0.0881
20	64QAM	1	49	18.96	19.05	18.94	0.0863	0.0881	0.0859
20	64QAM	1	99	19.01	19.07	19.01	0.0873	0.0885	0.0873
20	64QAM	50	0	18.55	18.59	18.55	0.0785	0.0793	0.0785
20	64QAM	50	24	18.39	18.48	18.37	0.0757	0.0773	0.0753
20	64QAM	50	50	18.40	18.49	18.45	0.0759	0.0774	0.0767
20	64QAM	100	0	18.70	18.74	18.67	0.0813	0.0820	0.0807
Channel				26115	26340	26615	26115	26340	26615
Frequency (MHz)				1857.5	1880	1907.5	1857.5	1880	1907.5
15	QPSK	1	0	20.94	21.11	20.95	0.1361	0.1416	0.1365



15	QPSK	1	37	20.92	21.00	20.79	0.1355	0.1380	0.1315
15	QPSK	1	74	20.92	20.98	20.80	0.1355	0.1374	0.1318
15	QPSK	36	0	19.97	20.02	19.98	0.1089	0.1102	0.1091
15	QPSK	36	20	19.94	20.03	19.88	0.1081	0.1104	0.1067
15	QPSK	36	39	19.85	19.93	19.90	0.1059	0.1079	0.1072
15	QPSK	75	0	20.13	20.13	20.02	0.1130	0.1130	0.1102
15	16QAM	1	0	20.19	20.30	20.22	0.1146	0.1175	0.1153
15	16QAM	1	37	20.09	20.23	20.13	0.1119	0.1156	0.1130
15	16QAM	1	74	20.14	20.17	20.15	0.1132	0.1140	0.1135
15	16QAM	36	0	18.98	19.03	19.08	0.0867	0.0877	0.0887
15	16QAM	36	20	18.86	18.93	18.89	0.0843	0.0857	0.0849
15	16QAM	36	39	18.88	18.93	18.83	0.0847	0.0857	0.0838
15	16QAM	75	0	19.08	19.16	19.14	0.0887	0.0904	0.0899
15	64QAM	1	0	18.86	19.07	19.01	0.0843	0.0885	0.0873
15	64QAM	1	37	18.91	18.92	18.84	0.0853	0.0855	0.0839
15	64QAM	1	74	18.94	19.00	18.94	0.0859	0.0871	0.0859
15	64QAM	36	0	18.46	18.51	18.46	0.0769	0.0778	0.0769
15	64QAM	36	20	18.32	18.37	18.33	0.0745	0.0753	0.0746
15	64QAM	36	39	18.30	18.41	18.42	0.0741	0.0760	0.0762
15	64QAM	75	0	18.64	18.65	18.56	0.0802	0.0804	0.0787
Channel				26090	26340	26640	26090	26340	26640
Frequency (MHz)				1855	1880	1910	1855	1880	1910
10	QPSK	1	0	20.94	21.06	20.94	0.1361	0.1400	0.1361
10	QPSK	1	25	20.88	20.93	20.82	0.1343	0.1358	0.1324
10	QPSK	1	49	20.89	20.96	20.78	0.1346	0.1368	0.1312
10	QPSK	25	0	20.01	20.07	19.99	0.1099	0.1114	0.1094
10	QPSK	25	12	19.92	20.04	19.86	0.1076	0.1107	0.1062
10	QPSK	25	25	19.85	19.94	19.96	0.1059	0.1081	0.1086
10	QPSK	50	0	20.05	20.07	20.03	0.1109	0.1114	0.1104
10	16QAM	1	0	20.18	20.24	20.16	0.1143	0.1159	0.1138
10	16QAM	1	25	20.10	20.18	20.13	0.1122	0.1143	0.1130
10	16QAM	1	49	20.12	20.17	20.15	0.1127	0.1140	0.1135
10	16QAM	25	0	18.97	19.03	19.08	0.0865	0.0877	0.0887
10	16QAM	25	12	18.89	19.01	18.96	0.0849	0.0873	0.0863
10	16QAM	25	25	18.88	18.96	18.91	0.0847	0.0863	0.0853
10	16QAM	50	0	19.15	19.21	19.11	0.0902	0.0914	0.0893
10	64QAM	1	0	18.90	18.99	18.97	0.0851	0.0869	0.0865
10	64QAM	1	25	18.86	18.94	18.82	0.0843	0.0859	0.0836
10	64QAM	1	49	18.96	19.03	18.89	0.0863	0.0877	0.0849
10	64QAM	25	0	18.46	18.52	18.44	0.0769	0.0780	0.0766
10	64QAM	25	12	18.29	18.40	18.24	0.0740	0.0759	0.0731
10	64QAM	25	25	18.35	18.40	18.32	0.0750	0.0759	0.0745
10	64QAM	50	0	18.63	18.66	18.58	0.0800	0.0805	0.0791
Channel				26065	26340	26665	26065	26340	26665
Frequency (MHz)				1852.5	1880	1912.5	1852.5	1880	1912.5
5	QPSK	1	0	20.90	21.09	20.96	0.1349	0.1409	0.1368
5	QPSK	1	12	20.84	20.99	20.82	0.1330	0.1377	0.1324



5	QPSK	1	24	20.89	20.95	20.84	0.1346	0.1365	0.1330
5	QPSK	12	0	19.93	20.08	19.97	0.1079	0.1117	0.1089
5	QPSK	12	7	19.86	20.03	19.87	0.1062	0.1104	0.1064
5	QPSK	12	13	19.89	19.92	19.94	0.1069	0.1076	0.1081
5	QPSK	25	0	20.07	20.16	20.11	0.1114	0.1138	0.1125
5	16QAM	1	0	20.16	20.28	20.17	0.1138	0.1169	0.1140
5	16QAM	1	12	20.12	20.17	20.08	0.1127	0.1140	0.1117
5	16QAM	1	24	20.15	20.22	20.14	0.1135	0.1153	0.1132
5	16QAM	12	0	18.96	19.05	19.01	0.0863	0.0881	0.0873
5	16QAM	12	7	18.95	18.96	18.96	0.0861	0.0863	0.0863
5	16QAM	12	13	18.95	18.96	18.83	0.0861	0.0863	0.0838
5	16QAM	25	0	19.10	19.17	19.14	0.0891	0.0906	0.0899
5	64QAM	1	0	18.93	18.98	19.00	0.0857	0.0867	0.0871
5	64QAM	1	12	18.87	18.93	18.86	0.0845	0.0857	0.0843
5	64QAM	1	24	18.95	19.03	18.89	0.0861	0.0877	0.0849
5	64QAM	12	0	18.45	18.51	18.46	0.0767	0.0778	0.0769
5	64QAM	12	7	18.27	18.44	18.34	0.0736	0.0766	0.0748
5	64QAM	12	13	18.29	18.41	18.34	0.0740	0.0760	0.0748
5	64QAM	25	0	18.63	18.70	18.56	0.0800	0.0813	0.0787
Channel				26055	26340	26675	26055	26340	26675
Frequency (MHz)				1851.5	1880	1913.5	1851.5	1880	1913.5
3	QPSK	1	0	20.92	21.06	20.92	0.1355	0.1400	0.1355
3	QPSK	1	8	20.88	20.97	20.86	0.1343	0.1371	0.1337
3	QPSK	1	14	20.92	20.95	20.80	0.1355	0.1365	0.1318
3	QPSK	8	0	20.00	20.01	20.00	0.1096	0.1099	0.1096
3	QPSK	8	4	19.92	20.03	19.88	0.1076	0.1104	0.1067
3	QPSK	8	7	19.82	19.93	19.88	0.1052	0.1079	0.1067
3	QPSK	15	0	20.06	20.06	20.07	0.1112	0.1112	0.1114
3	16QAM	1	0	20.17	20.30	20.18	0.1140	0.1175	0.1143
3	16QAM	1	8	20.03	20.25	20.10	0.1104	0.1161	0.1122
3	16QAM	1	14	20.13	20.19	20.08	0.1130	0.1146	0.1117
3	16QAM	8	0	18.96	19.11	19.03	0.0863	0.0893	0.0877
3	16QAM	8	4	18.90	18.95	18.89	0.0851	0.0861	0.0849
3	16QAM	8	7	18.96	19.01	18.87	0.0863	0.0873	0.0845
3	16QAM	15	0	19.13	19.14	19.14	0.0897	0.0899	0.0899
3	64QAM	1	0	18.91	19.03	18.95	0.0853	0.0877	0.0861
3	64QAM	1	8	18.83	18.98	18.81	0.0838	0.0867	0.0834
3	64QAM	1	14	18.91	19.00	18.96	0.0853	0.0871	0.0863
3	64QAM	8	0	18.52	18.53	18.45	0.0780	0.0782	0.0767
3	64QAM	8	4	18.33	18.44	18.26	0.0746	0.0766	0.0735
3	64QAM	8	7	18.30	18.45	18.33	0.0741	0.0767	0.0746
3	64QAM	15	0	18.59	18.62	18.61	0.0793	0.0798	0.0796
Channel				26047	26340	26683	26047	26340	26683
Frequency (MHz)				1850.7	1880	1914.3	1850.7	1880	1914.3
1.4	QPSK	1	0	20.62	20.83	20.70	0.1265	0.1327	0.1288
1.4	QPSK	1	3	20.80	20.77	20.70	0.1318	0.1309	0.1288
1.4	QPSK	1	5	20.77	20.73	20.69	0.1309	0.1297	0.1285



1.4	QPSK	3	0	20.76	20.75	20.74	0.1306	0.1303	0.1300
1.4	QPSK	3	1	20.65	20.67	20.73	0.1274	0.1279	0.1297
1.4	QPSK	3	3	20.65	20.81	20.75	0.1274	0.1321	0.1303
1.4	QPSK	6	0	20.83	20.87	20.73	0.1327	0.1340	0.1297
1.4	16QAM	1	0	20.85	20.85	20.72	0.1334	0.1334	0.1294
1.4	16QAM	1	3	20.74	20.76	20.84	0.1300	0.1306	0.1330
1.4	16QAM	1	5	20.84	20.62	20.77	0.1330	0.1265	0.1309
1.4	16QAM	3	0	20.72	20.69	20.81	0.1294	0.1285	0.1321
1.4	16QAM	3	1	20.71	20.81	20.64	0.1291	0.1321	0.1271
1.4	16QAM	3	3	20.77	20.71	20.68	0.1309	0.1291	0.1282
1.4	16QAM	6	0	20.69	20.67	20.70	0.1285	0.1279	0.1288
1.4	64QAM	1	0	18.98	19.08	19.02	0.0867	0.0887	0.0875
1.4	64QAM	1	3	18.95	19.02	18.96	0.0861	0.0875	0.0863
1.4	64QAM	1	5	18.85	18.94	18.82	0.0841	0.0859	0.0836
1.4	64QAM	3	0	18.61	18.66	18.59	0.0796	0.0805	0.0793
1.4	64QAM	3	1	18.66	18.68	18.60	0.0805	0.0809	0.0794
1.4	64QAM	3	3	18.85	19.00	19.01	0.0841	0.0871	0.0873
1.4	64QAM	6	0	18.54	18.52	18.58	0.0783	0.0780	0.0791

LTE Band 26:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP	ERP	ERP
Channel					26790			26790	
Frequency (MHz)					824			824	
15	QPSK	1	0		22.47			0.1052	
15	QPSK	1	37		22.40			0.1035	
15	QPSK	1	74		22.39			0.1033	
15	QPSK	36	0		21.35			0.0813	
15	QPSK	36	20		21.27			0.0798	
15	QPSK	36	39		21.29			0.0802	
15	QPSK	75	0		21.37			0.0817	
15	16QAM	1	0		21.21			0.0787	
15	16QAM	1	37		21.14			0.0774	
15	16QAM	1	74		21.15			0.0776	
15	16QAM	36	0		20.38			0.0650	
15	16QAM	36	20		20.27			0.0634	
15	16QAM	36	39		20.27			0.0634	
15	16QAM	75	0		20.39			0.0652	
15	64QAM	1	0		20.61			0.0685	
15	64QAM	1	37		20.49			0.0667	
15	64QAM	1	74		20.55			0.0676	
15	64QAM	36	0		19.99			0.0594	
15	64QAM	36	20		19.94			0.0587	
15	64QAM	36	39		19.88			0.0579	
15	64QAM	75	0		19.90			0.0582	
Channel				26765	26865	26965	26765	26865	26965



Frequency (MHz)				821.5	831.5	841.5	821.5	831.5	841.5
15	QPSK	1	0	22.38	22.47	22.46	0.1030	0.1052	0.1050
15	QPSK	1	37	22.29	22.40	22.35	0.1009	0.1035	0.1023
15	QPSK	1	74	22.31	22.39	22.27	0.1014	0.1033	0.1005
15	QPSK	36	0	21.22	21.35	21.28	0.0789	0.0813	0.0800
15	QPSK	36	20	21.21	21.27	21.15	0.0787	0.0798	0.0776
15	QPSK	36	39	21.23	21.29	21.20	0.0791	0.0802	0.0785
15	QPSK	75	0	21.32	21.37	21.25	0.0807	0.0817	0.0794
15	16QAM	1	0	21.15	21.21	21.10	0.0776	0.0787	0.0767
15	16QAM	1	37	21.02	21.14	21.11	0.0753	0.0774	0.0769
15	16QAM	1	74	21.04	21.15	21.02	0.0757	0.0776	0.0753
15	16QAM	36	0	20.31	20.38	20.33	0.0640	0.0650	0.0643
15	16QAM	36	20	20.16	20.27	20.14	0.0618	0.0634	0.0615
15	16QAM	36	39	20.22	20.27	20.16	0.0627	0.0634	0.0618
15	16QAM	75	0	20.31	20.39	20.31	0.0640	0.0652	0.0640
15	64QAM	1	0	20.49	20.61	20.52	0.0667	0.0685	0.0671
15	64QAM	1	37	20.38	20.49	20.42	0.0650	0.0667	0.0656
15	64QAM	1	74	20.44	20.55	20.51	0.0659	0.0676	0.0670
15	64QAM	36	0	19.94	19.99	19.95	0.0587	0.0594	0.0589
15	64QAM	36	20	19.81	19.94	19.91	0.0570	0.0587	0.0583
15	64QAM	36	39	19.80	19.88	19.79	0.0569	0.0579	0.0568
15	64QAM	75	0	19.80	19.90	19.86	0.0569	0.0582	0.0577
Channel				26740	26865	26990	26740	26865	26990
Frequency (MHz)				819	831.5	844	819	831.5	844
10	QPSK	1	0	22.27	22.37	22.36	0.1005	0.1028	0.1026
10	QPSK	1	25	22.22	22.35	22.23	0.0993	0.1023	0.0995
10	QPSK	1	49	22.27	22.35	22.22	0.1005	0.1023	0.0993
10	QPSK	25	0	21.16	21.24	21.23	0.0778	0.0793	0.0791
10	QPSK	25	12	21.16	21.16	21.03	0.0778	0.0778	0.0755
10	QPSK	25	25	21.15	21.18	21.12	0.0776	0.0782	0.0771
10	QPSK	50	0	21.28	21.28	21.21	0.0800	0.0800	0.0787
10	16QAM	1	0	21.05	21.18	21.06	0.0759	0.0782	0.0760
10	16QAM	1	25	20.95	21.04	21.08	0.0741	0.0757	0.0764
10	16QAM	1	49	20.95	21.06	20.93	0.0741	0.0760	0.0738
10	16QAM	25	0	20.21	20.27	20.26	0.0625	0.0634	0.0632
10	16QAM	25	12	20.09	20.20	20.02	0.0608	0.0624	0.0598
10	16QAM	25	25	20.13	20.14	20.09	0.0614	0.0615	0.0608
10	16QAM	50	0	20.25	20.28	20.20	0.0631	0.0635	0.0624
10	64QAM	1	0	20.39	20.50	20.39	0.0652	0.0668	0.0652
10	64QAM	1	25	20.33	20.41	20.33	0.0643	0.0655	0.0643
10	64QAM	1	49	20.36	20.51	20.47	0.0647	0.0670	0.0664
10	64QAM	25	0	19.90	19.90	19.92	0.0582	0.0582	0.0585
10	64QAM	25	12	19.69	19.81	19.85	0.0555	0.0570	0.0575
10	64QAM	25	25	19.67	19.76	19.74	0.0552	0.0564	0.0561
10	64QAM	50	0	19.69	19.85	19.75	0.0555	0.0575	0.0562
Channel				26715	26865	27015	26715	26865	27015
Frequency (MHz)				816.5	831.5	846.5	816.5	831.5	846.5



5	QPSK	1	0	22.34	22.40	22.43	0.1021	0.1035	0.1042
5	QPSK	1	12	22.26	22.28	22.27	0.1002	0.1007	0.1005
5	QPSK	1	24	22.22	22.27	22.20	0.0993	0.1005	0.0989
5	QPSK	12	0	21.14	21.27	21.16	0.0774	0.0798	0.0778
5	QPSK	12	7	21.18	21.24	21.08	0.0782	0.0793	0.0764
5	QPSK	12	13	21.17	21.26	21.10	0.0780	0.0796	0.0767
5	QPSK	25	0	21.25	21.25	21.20	0.0794	0.0794	0.0785
5	16QAM	1	0	21.09	21.17	20.99	0.0766	0.0780	0.0748
5	16QAM	1	12	20.93	21.05	21.02	0.0738	0.0759	0.0753
5	16QAM	1	24	20.99	21.11	20.90	0.0748	0.0769	0.0733
5	16QAM	12	0	20.25	20.25	20.28	0.0631	0.0631	0.0635
5	16QAM	12	7	20.05	20.20	20.10	0.0603	0.0624	0.0610
5	16QAM	12	13	20.18	20.24	20.13	0.0621	0.0630	0.0614
5	16QAM	25	0	20.22	20.31	20.20	0.0627	0.0640	0.0624
5	64QAM	1	0	20.41	20.49	20.41	0.0655	0.0667	0.0655
5	64QAM	1	12	20.34	20.43	20.32	0.0644	0.0658	0.0641
5	64QAM	1	24	20.38	20.49	20.40	0.0650	0.0667	0.0653
5	64QAM	12	0	19.83	19.94	19.91	0.0573	0.0587	0.0583
5	64QAM	12	7	19.68	19.81	19.88	0.0553	0.0570	0.0579
5	64QAM	12	13	19.70	19.76	19.71	0.0556	0.0564	0.0557
5	64QAM	25	0	19.75	19.81	19.73	0.0562	0.0570	0.0560
Channel				26705	26865	27025	26705	26865	27025
Frequency (MHz)				815.5	831.5	847.5	815.5	831.5	847.5
3	QPSK	1	0	22.33	22.37	22.41	0.1019	0.1028	0.1038
3	QPSK	1	8	22.18	22.31	22.32	0.0984	0.1014	0.1016
3	QPSK	1	14	22.28	22.34	22.16	0.1007	0.1021	0.0979
3	QPSK	8	0	21.19	21.29	21.20	0.0783	0.0802	0.0785
3	QPSK	8	4	21.13	21.17	21.09	0.0773	0.0780	0.0766
3	QPSK	8	7	21.13	21.19	21.10	0.0773	0.0783	0.0767
3	QPSK	15	0	21.22	21.33	21.14	0.0789	0.0809	0.0774
3	16QAM	1	0	21.10	21.15	21.03	0.0767	0.0776	0.0755
3	16QAM	1	8	20.91	21.07	21.06	0.0735	0.0762	0.0760
3	16QAM	1	14	20.97	21.09	20.90	0.0745	0.0766	0.0733
3	16QAM	8	0	20.23	20.25	20.30	0.0628	0.0631	0.0638
3	16QAM	8	4	20.06	20.20	20.07	0.0604	0.0624	0.0605
3	16QAM	8	7	20.16	20.15	20.05	0.0618	0.0617	0.0603
3	16QAM	15	0	20.21	20.33	20.21	0.0625	0.0643	0.0625
3	64QAM	1	0	20.40	20.56	20.40	0.0653	0.0678	0.0653
3	64QAM	1	8	20.26	20.46	20.34	0.0632	0.0662	0.0644
3	64QAM	1	14	20.41	20.51	20.44	0.0655	0.0670	0.0659
3	64QAM	8	0	19.88	19.88	19.91	0.0579	0.0579	0.0583
3	64QAM	8	4	19.76	19.85	19.85	0.0564	0.0575	0.0575
3	64QAM	8	7	19.68	19.81	19.69	0.0553	0.0570	0.0555
3	64QAM	15	0	19.71	19.78	19.73	0.0557	0.0566	0.0560
Channel				26697	26865	27033	26697	26865	27033
Frequency (MHz)				814.7	831.5	848.3	814.7	831.5	848.3
1.4	QPSK	1	0	22.32	22.36	22.38	0.1016	0.1026	0.1030



1.4	QPSK	1	3	22.24	22.29	22.23	0.0998	0.1009	0.0995
1.4	QPSK	1	5	22.25	22.33	22.14	0.1000	0.1019	0.0975
1.4	QPSK	3	0	22.22	22.35	22.26	0.0993	0.1023	0.1002
1.4	QPSK	3	1	22.27	22.32	22.18	0.1005	0.1016	0.0984
1.4	QPSK	3	3	22.18	22.28	22.22	0.0984	0.1007	0.0993
1.4	QPSK	6	0	21.23	21.24	21.20	0.0791	0.0793	0.0785
1.4	16QAM	1	0	21.09	21.16	20.98	0.0766	0.0778	0.0746
1.4	16QAM	1	3	20.97	21.04	21.05	0.0745	0.0757	0.0759
1.4	16QAM	1	5	20.96	21.11	20.98	0.0743	0.0769	0.0746
1.4	16QAM	3	0	21.05	21.09	21.03	0.0759	0.0766	0.0755
1.4	16QAM	3	1	20.92	21.09	21.07	0.0736	0.0766	0.0762
1.4	16QAM	3	3	21.01	21.08	20.93	0.0752	0.0764	0.0738
1.4	16QAM	6	0	20.23	20.29	20.25	0.0628	0.0637	0.0631
1.4	64QAM	1	0	20.44	20.49	20.43	0.0659	0.0667	0.0658
1.4	64QAM	1	3	20.31	20.37	20.34	0.0640	0.0649	0.0644
1.4	64QAM	1	5	20.36	20.51	20.39	0.0647	0.0670	0.0652
1.4	64QAM	3	0	20.40	20.45	20.36	0.0653	0.0661	0.0647
1.4	64QAM	3	1	20.21	20.32	20.35	0.0625	0.0641	0.0646
1.4	64QAM	3	3	20.21	20.30	20.24	0.0625	0.0638	0.0630
1.4	64QAM	6	0	19.77	19.82	19.78	0.0565	0.0571	0.0566

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	21.00	21.05	20.92	0.1479	0.1496	0.1452
20	QPSK	1	49	20.87	20.95	20.89	0.1435	0.1462	0.1442
20	QPSK	1	99	20.92	20.96	20.91	0.1452	0.1466	0.1449
20	QPSK	50	0	19.94	19.99	19.91	0.1159	0.1172	0.1151
20	QPSK	50	24	19.84	19.87	19.84	0.1132	0.1140	0.1132
20	QPSK	50	50	19.87	19.92	19.85	0.1140	0.1153	0.1135
20	QPSK	100	0	19.84	19.87	19.85	0.1132	0.1140	0.1135
20	16QAM	1	0	19.82	19.82	19.83	0.1127	0.1127	0.1130
20	16QAM	1	49	19.84	19.80	19.85	0.1132	0.1122	0.1135
20	16QAM	1	99	19.81	19.81	19.84	0.1125	0.1125	0.1132
20	16QAM	50	0	18.96	19.09	19.05	0.0925	0.0953	0.0944
20	16QAM	50	24	18.94	19.04	18.98	0.0920	0.0942	0.0929
20	16QAM	50	50	18.96	19.04	18.96	0.0925	0.0942	0.0925
20	16QAM	100	0	19.02	19.05	19.02	0.0938	0.0944	0.0938
20	64QAM	1	0	18.88	18.94	18.89	0.0908	0.0920	0.0910
20	64QAM	1	49	18.80	18.88	18.82	0.0891	0.0908	0.0895
20	64QAM	1	99	18.72	18.82	18.74	0.0875	0.0895	0.0879
20	64QAM	50	0	18.48	18.58	18.52	0.0828	0.0847	0.0836
20	64QAM	50	24	18.41	18.51	18.41	0.0815	0.0834	0.0815
20	64QAM	50	50	18.39	18.45	18.36	0.0811	0.0822	0.0805



20	64QAM	100	0	18.40	18.46	18.39	0.0813	0.0824	0.0811
Channel				132047	132322	132597	132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5	1717.5	1745	1772.5
15	QPSK	1	0	20.92	21.01	20.79	0.1452	0.1483	0.1409
15	QPSK	1	37	20.79	20.85	20.77	0.1409	0.1429	0.1403
15	QPSK	1	74	20.89	20.86	20.87	0.1442	0.1432	0.1435
15	QPSK	36	0	19.81	19.89	19.84	0.1125	0.1146	0.1132
15	QPSK	36	20	19.80	19.79	19.72	0.1122	0.1119	0.1102
15	QPSK	36	39	19.77	19.80	19.80	0.1114	0.1122	0.1122
15	QPSK	75	0	19.73	19.83	19.77	0.1104	0.1130	0.1114
15	16QAM	1	0	19.79	19.70	19.72	0.1119	0.1096	0.1102
15	16QAM	1	37	19.78	19.68	19.77	0.1117	0.1091	0.1114
15	16QAM	1	74	19.72	19.72	19.74	0.1102	0.1102	0.1107
15	16QAM	36	0	18.83	19.05	18.97	0.0897	0.0944	0.0927
15	16QAM	36	20	18.82	18.94	18.88	0.0895	0.0920	0.0908
15	16QAM	36	39	18.84	18.91	18.87	0.0899	0.0914	0.0906
15	16QAM	75	0	18.91	18.98	18.96	0.0914	0.0929	0.0925
15	64QAM	1	0	18.85	18.85	18.82	0.0902	0.0902	0.0895
15	64QAM	1	37	18.71	18.75	18.75	0.0873	0.0881	0.0881
15	64QAM	1	74	18.66	18.78	18.62	0.0863	0.0887	0.0855
15	64QAM	36	0	18.45	18.47	18.48	0.0822	0.0826	0.0828
15	64QAM	36	20	18.36	18.45	18.31	0.0805	0.0822	0.0796
15	64QAM	36	39	18.31	18.37	18.26	0.0796	0.0807	0.0787
15	64QAM	75	0	18.30	18.42	18.26	0.0794	0.0817	0.0787
Channel				132022	132322	132622	132022	132322	132622
Frequency (MHz)				1715	1745	1775	1715	1745	1775
10	QPSK	1	0	20.90	20.98	20.82	0.1445	0.1472	0.1419
10	QPSK	1	25	20.81	20.84	20.84	0.1416	0.1426	0.1426
10	QPSK	1	49	20.84	20.87	20.81	0.1426	0.1435	0.1416
10	QPSK	25	0	19.82	19.92	19.83	0.1127	0.1153	0.1130
10	QPSK	25	12	19.72	19.81	19.71	0.1102	0.1125	0.1099
10	QPSK	25	25	19.79	19.83	19.77	0.1119	0.1130	0.1114
10	QPSK	50	0	19.79	19.76	19.73	0.1119	0.1112	0.1104
10	16QAM	1	0	19.72	19.73	19.74	0.1102	0.1104	0.1107
10	16QAM	1	25	19.74	19.67	19.75	0.1107	0.1089	0.1109
10	16QAM	1	49	19.69	19.77	19.71	0.1094	0.1114	0.1099
10	16QAM	25	0	18.87	18.99	18.97	0.0906	0.0931	0.0927
10	16QAM	25	12	18.89	18.98	18.89	0.0910	0.0929	0.0910
10	16QAM	25	25	18.91	18.98	18.90	0.0914	0.0929	0.0912
10	16QAM	50	0	18.96	18.97	18.92	0.0925	0.0927	0.0916
10	64QAM	1	0	18.83	18.87	18.80	0.0897	0.0906	0.0891
10	64QAM	1	25	18.70	18.82	18.72	0.0871	0.0895	0.0875
10	64QAM	1	49	18.65	18.72	18.66	0.0861	0.0875	0.0863
10	64QAM	25	0	18.38	18.48	18.39	0.0809	0.0828	0.0811
10	64QAM	25	12	18.32	18.44	18.36	0.0798	0.0820	0.0805
10	64QAM	25	25	18.28	18.35	18.30	0.0791	0.0804	0.0794
10	64QAM	50	0	18.33	18.36	18.31	0.0800	0.0805	0.0796



Channel				131997	132322	132647	131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5	1712.5	1745	1777.5
5	QPSK	1	0	20.92	20.94	20.79	0.1452	0.1459	0.1409
5	QPSK	1	12	20.81	20.87	20.85	0.1416	0.1435	0.1429
5	QPSK	1	24	20.87	20.90	20.79	0.1435	0.1445	0.1409
5	QPSK	12	0	19.88	19.88	19.87	0.1143	0.1143	0.1140
5	QPSK	12	7	19.72	19.78	19.76	0.1102	0.1117	0.1112
5	QPSK	12	13	19.82	19.81	19.79	0.1127	0.1125	0.1119
5	QPSK	25	0	19.78	19.79	19.74	0.1117	0.1119	0.1107
5	16QAM	1	0	19.72	19.76	19.78	0.1102	0.1112	0.1117
5	16QAM	1	12	19.74	19.68	19.77	0.1107	0.1091	0.1114
5	16QAM	1	24	19.72	19.78	19.75	0.1102	0.1117	0.1109
5	16QAM	12	0	18.83	18.96	18.93	0.0897	0.0925	0.0918
5	16QAM	12	7	18.85	18.95	18.92	0.0902	0.0923	0.0916
5	16QAM	12	13	18.84	18.94	18.86	0.0899	0.0920	0.0904
5	16QAM	25	0	18.92	18.94	18.99	0.0916	0.0920	0.0931
5	64QAM	1	0	18.78	18.88	18.77	0.0887	0.0908	0.0885
5	64QAM	1	12	18.76	18.77	18.74	0.0883	0.0885	0.0879
5	64QAM	1	24	18.62	18.78	18.63	0.0855	0.0887	0.0857
5	64QAM	12	0	18.36	18.52	18.46	0.0805	0.0836	0.0824
5	64QAM	12	7	18.28	18.39	18.35	0.0791	0.0811	0.0804
5	64QAM	12	13	18.33	18.35	18.24	0.0800	0.0804	0.0783
5	64QAM	25	0	18.29	18.37	18.28	0.0793	0.0807	0.0791
Channel				131987	132322	132657	131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5	1711.5	1745	1778.5
3	QPSK	1	0	20.95	20.94	20.85	0.1462	0.1459	0.1429
3	QPSK	1	8	20.75	20.88	20.82	0.1396	0.1439	0.1419
3	QPSK	1	14	20.88	20.86	20.79	0.1439	0.1432	0.1409
3	QPSK	8	0	19.86	19.96	19.87	0.1138	0.1164	0.1140
3	QPSK	8	4	19.71	19.77	19.76	0.1099	0.1114	0.1112
3	QPSK	8	7	19.75	19.86	19.78	0.1109	0.1138	0.1117
3	QPSK	15	0	19.72	19.82	19.77	0.1102	0.1127	0.1114
3	16QAM	1	0	19.70	19.77	19.76	0.1096	0.1114	0.1112
3	16QAM	1	8	19.72	19.74	19.72	0.1102	0.1107	0.1102
3	16QAM	1	14	19.74	19.74	19.73	0.1107	0.1107	0.1104
3	16QAM	8	0	18.87	19.06	18.97	0.0906	0.0946	0.0927
3	16QAM	8	4	18.84	19.00	18.89	0.0899	0.0933	0.0910
3	16QAM	8	7	18.88	18.91	18.90	0.0908	0.0914	0.0912
3	16QAM	15	0	18.93	18.93	18.95	0.0918	0.0918	0.0923
3	64QAM	1	0	18.79	18.84	18.81	0.0889	0.0899	0.0893
3	64QAM	1	8	18.73	18.77	18.72	0.0877	0.0885	0.0875
3	64QAM	1	14	18.64	18.78	18.67	0.0859	0.0887	0.0865
3	64QAM	8	0	18.42	18.53	18.47	0.0817	0.0838	0.0826
3	64QAM	8	4	18.30	18.47	18.32	0.0794	0.0826	0.0798
3	64QAM	8	7	18.35	18.39	18.32	0.0804	0.0811	0.0798
3	64QAM	15	0	18.30	18.40	18.27	0.0794	0.0813	0.0789
Channel				131979	132322	132665	131979	132322	132665



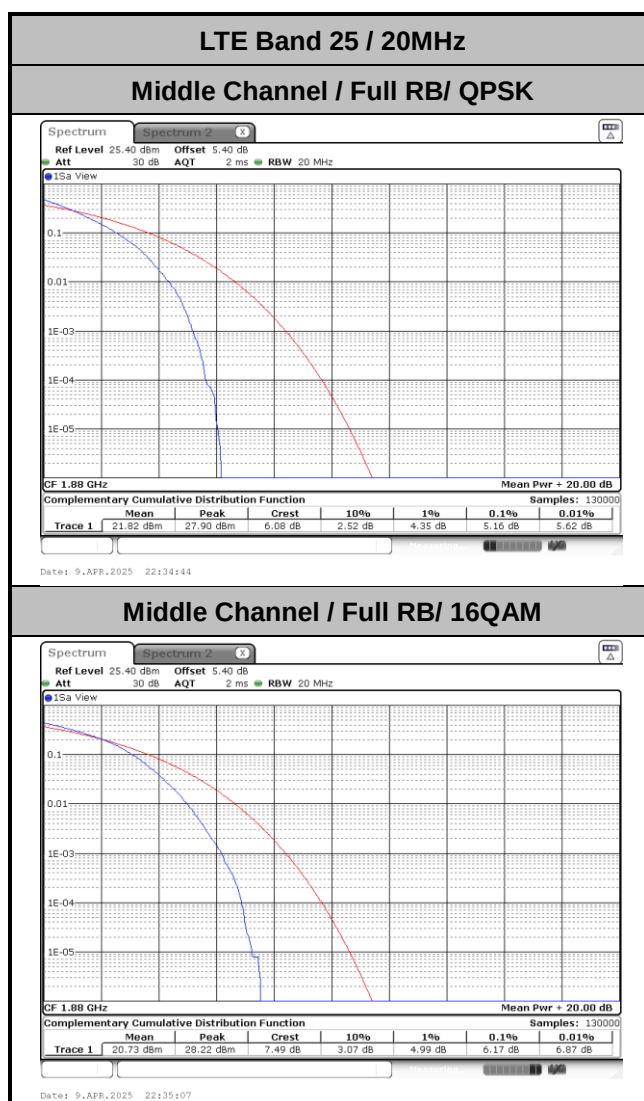
Frequency (MHz)				1710.7	1745	1779.3	1710.7	1745	1779.3
1.4	QPSK	1	0	20.97	21.00	20.88	0.1469	0.1479	0.1439
1.4	QPSK	1	3	20.81	20.88	20.86	0.1416	0.1439	0.1432
1.4	QPSK	1	5	20.83	20.90	20.87	0.1422	0.1445	0.1435
1.4	QPSK	3	0	19.86	19.88	19.79	0.1138	0.1143	0.1119
1.4	QPSK	3	1	19.72	19.75	19.74	0.1102	0.1109	0.1107
1.4	QPSK	3	3	19.79	19.82	19.80	0.1119	0.1127	0.1122
1.4	QPSK	6	0	19.77	19.80	19.73	0.1114	0.1122	0.1104
1.4	16QAM	1	0	19.76	19.72	19.75	0.1112	0.1102	0.1109
1.4	16QAM	1	3	19.76	19.74	19.76	0.1112	0.1107	0.1112
1.4	16QAM	1	5	19.71	19.77	19.72	0.1099	0.1114	0.1102
1.4	16QAM	3	0	18.87	18.97	18.99	0.0906	0.0927	0.0931
1.4	16QAM	3	1	18.86	18.98	18.88	0.0904	0.0929	0.0908
1.4	16QAM	3	3	18.91	18.92	18.88	0.0914	0.0916	0.0908
1.4	16QAM	6	0	18.92	18.97	18.89	0.0916	0.0927	0.0910
1.4	64QAM	1	0	18.85	18.86	18.77	0.0902	0.0904	0.0885
1.4	64QAM	1	3	18.70	18.82	18.70	0.0871	0.0895	0.0871
1.4	64QAM	1	5	18.69	18.72	18.66	0.0869	0.0875	0.0863
1.4	64QAM	3	0	18.92	18.95	18.98	0.0916	0.0923	0.0929
1.4	64QAM	3	1	18.86	18.92	18.80	0.0904	0.0916	0.0891
1.4	64QAM	3	3	18.80	18.87	18.75	0.0891	0.0906	0.0881
1.4	64QAM	6	0	18.31	18.34	18.27	0.0796	0.0802	0.0789

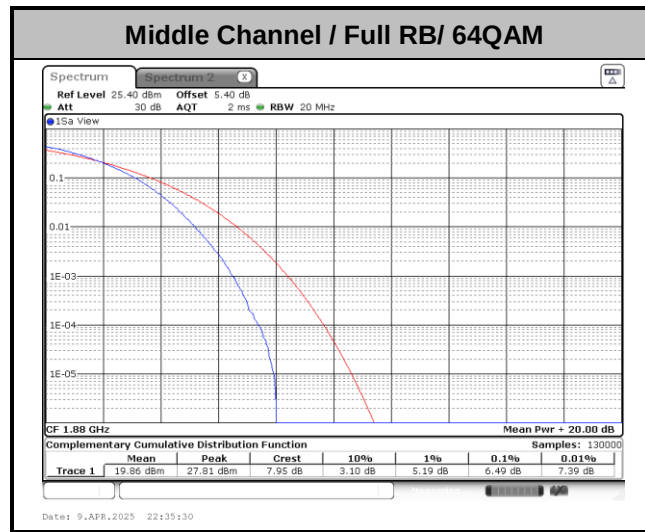


LTE Band 25

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	5.16	6.17	6.49	PASS





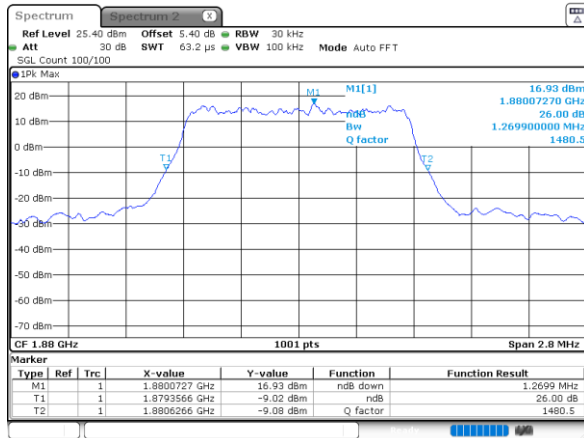
**26dB Bandwidth**

Mode	LTE Band 25 : 26dB BW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.27	1.25
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	3.0	3.0
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.99	4.92
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.89	9.75
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.15	14.39
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.74	18.90

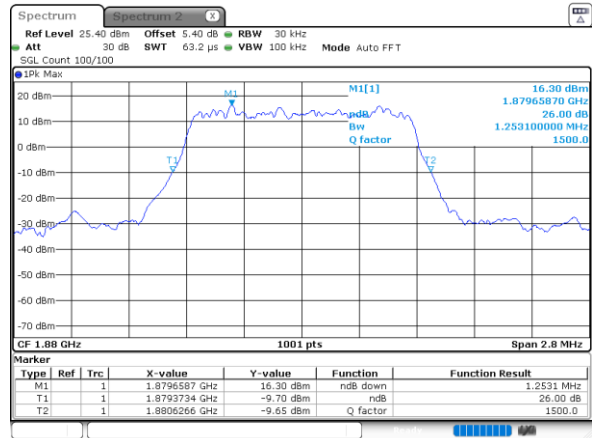


LTE Band 25

Middle Channel / 1.4MHz / QPSK

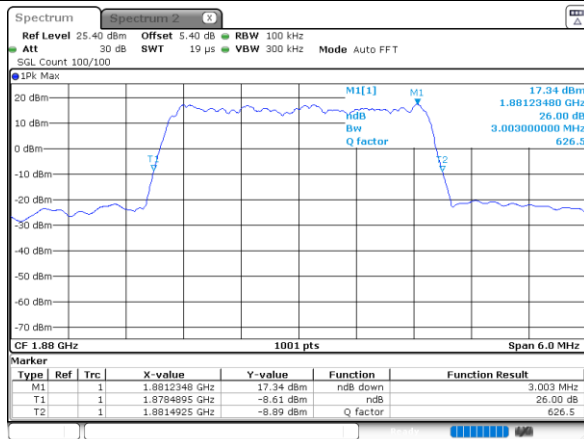


Middle Channel / 1.4MHz / 16QAM

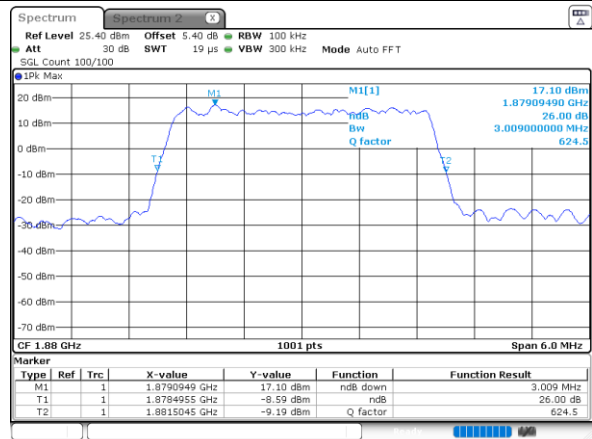


LTE Band 25

Middle Channel / 3MHz / QPSK

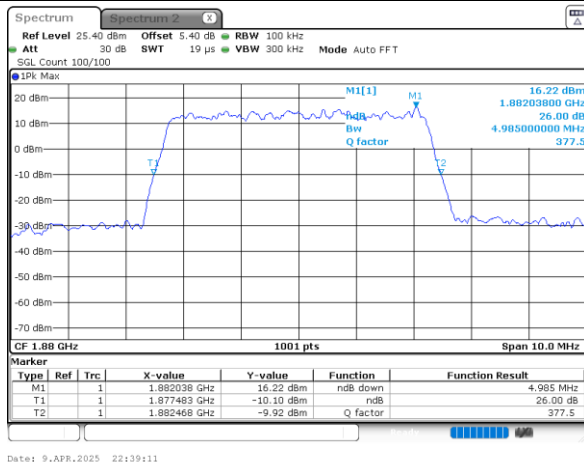


Middle Channel / 3MHz / 16QAM

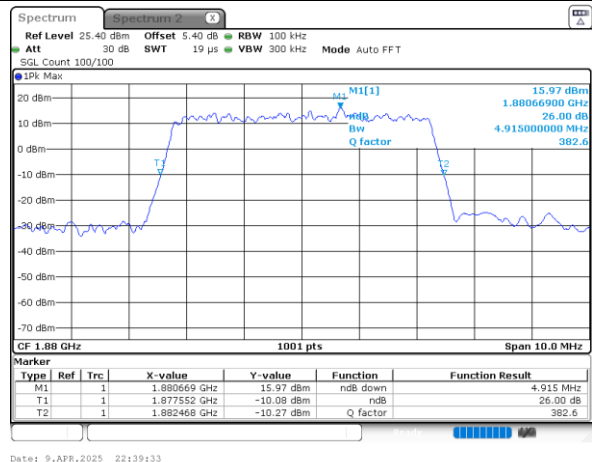


LTE Band 25

Middle Channel / 5MHz / QPSK



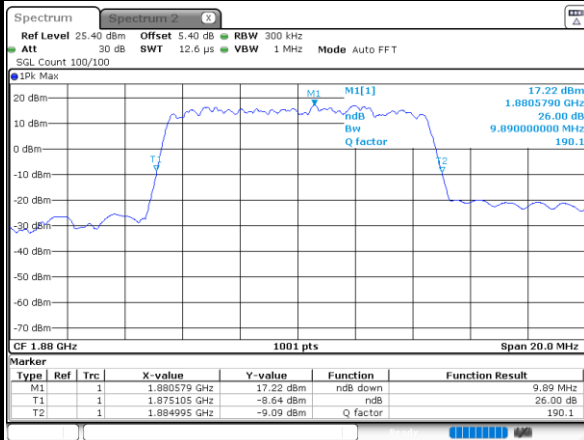
Middle Channel / 5MHz / 16QAM





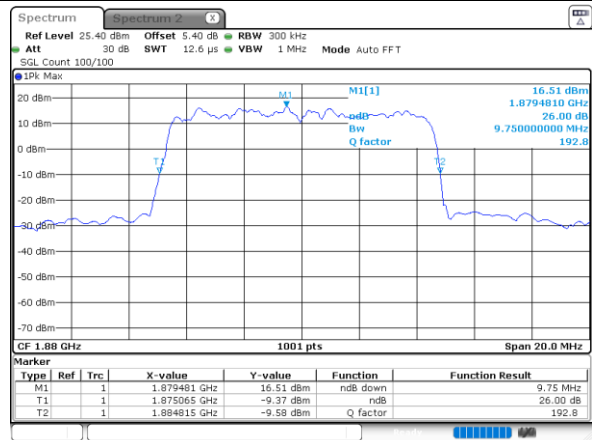
LTE Band 25

Middle Channel / 10MHz / QPSK



Date: 9.APR.2025 22:37:43

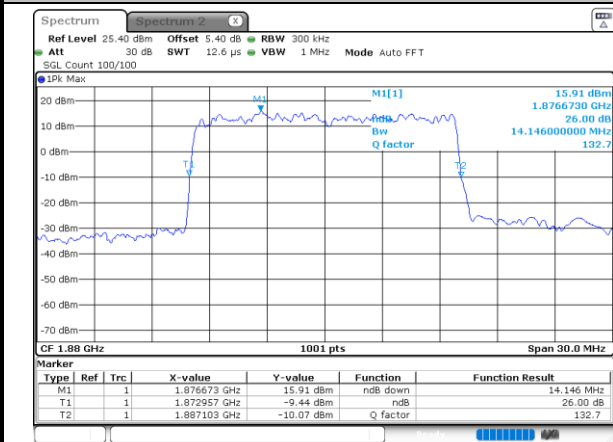
Middle Channel / 10MHz / 16QAM



Date: 9.APR.2025 22:38:05

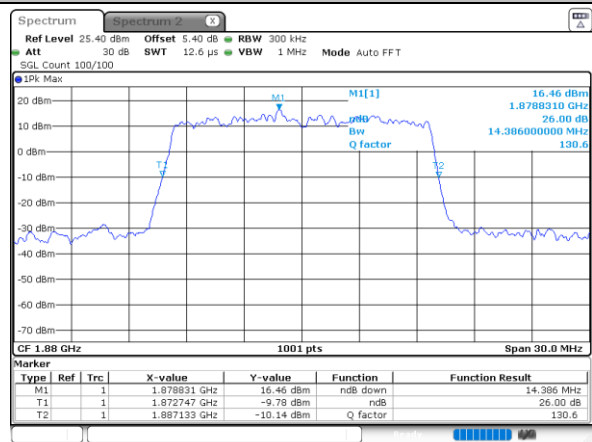
LTE Band 25

Middle Channel / 15MHz / QPSK



Date: 9.APR.2025 22:36:14

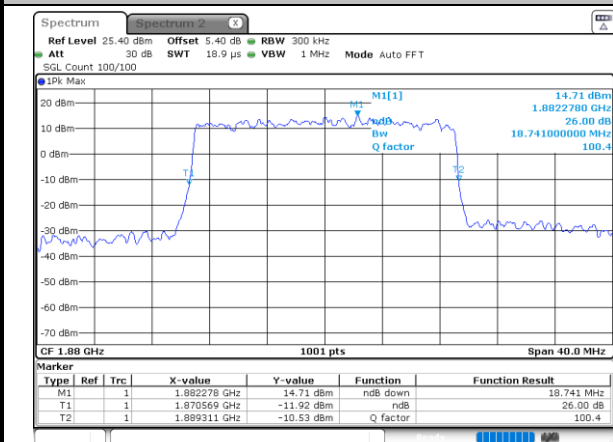
Middle Channel / 15MHz / 16QAM



Date: 9.APR.2025 22:36:36

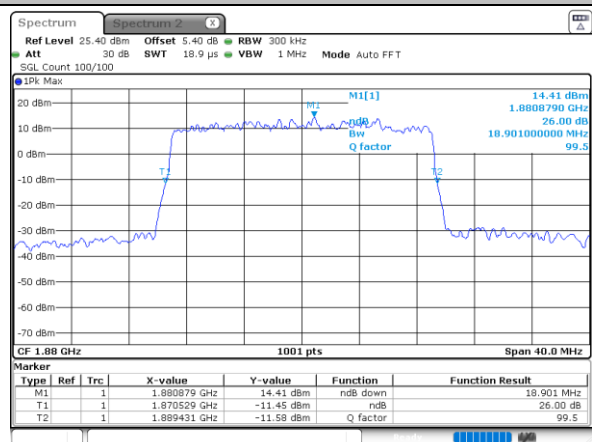
LTE Band 25

Middle Channel / 20MHz / QPSK



Date: 9.APR.2025 22:25:54

Middle Channel / 20MHz / 16QAM

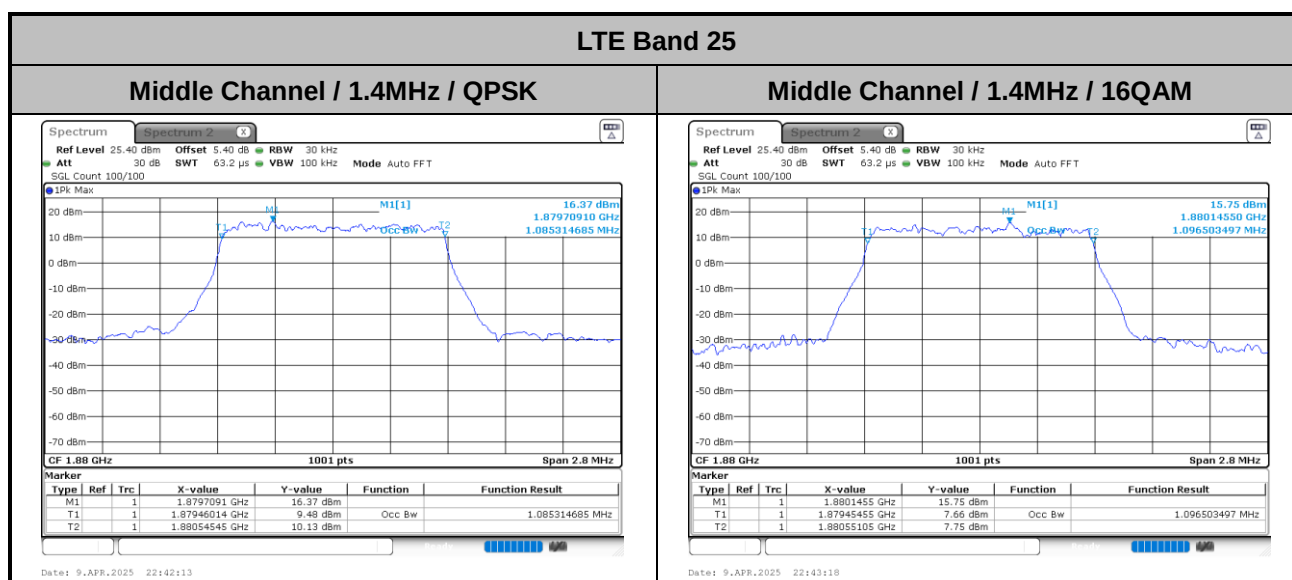


Date: 9.APR.2025 22:26:16



Occupied Bandwidth

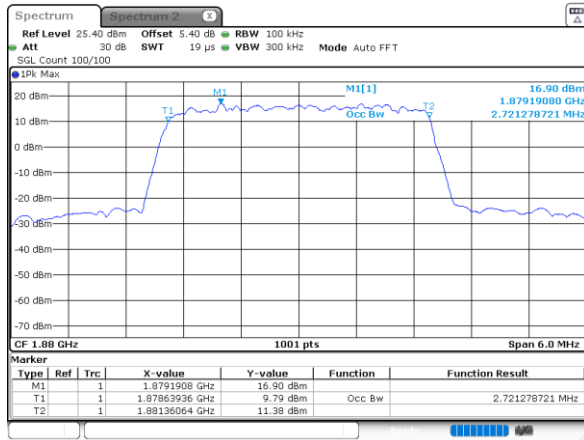
Mode	LTE Band 25 : 99%OBW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.09	1.10
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.72	2.72
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.49	4.49
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.01	8.99
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.37	13.40
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.82	17.82



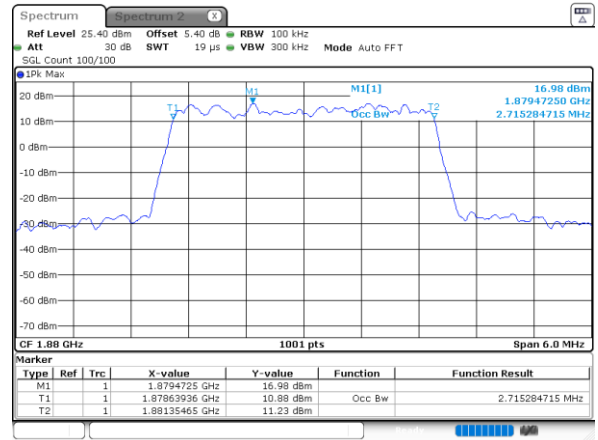


LTE Band 25

Middle Channel / 3MHz / QPSK

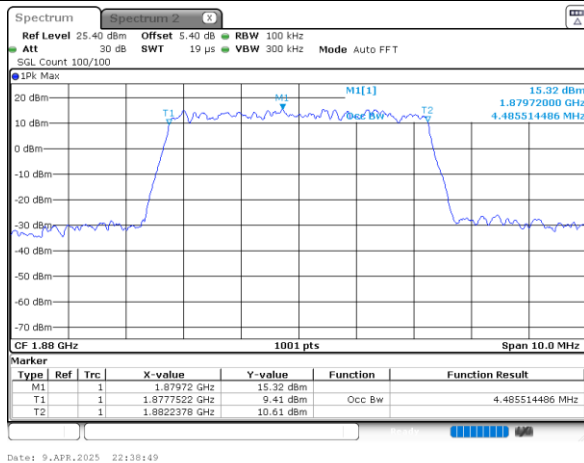


Middle Channel / 3MHz / 16QAM

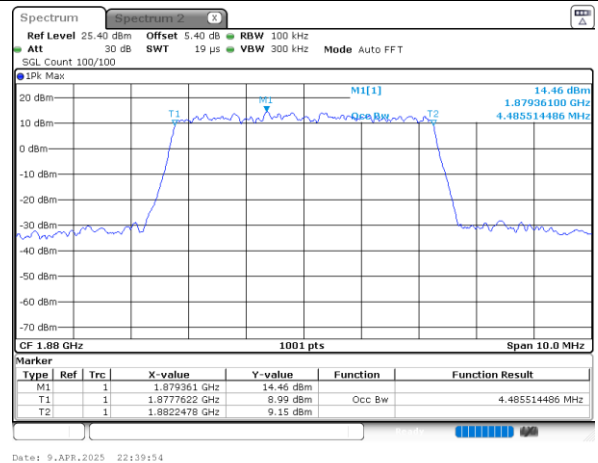


LTE Band 25

Middle Channel / 5MHz / QPSK

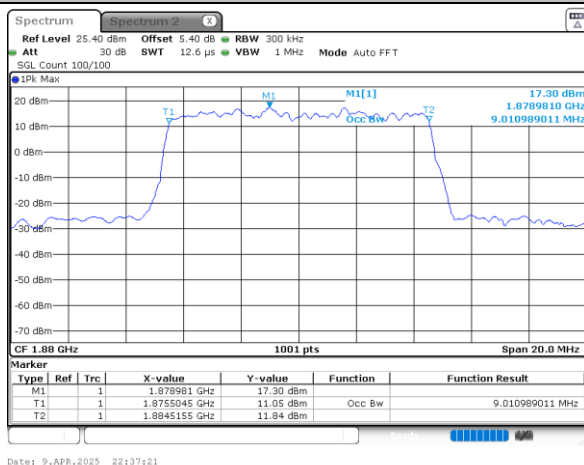


Middle Channel / 5MHz / 16QAM

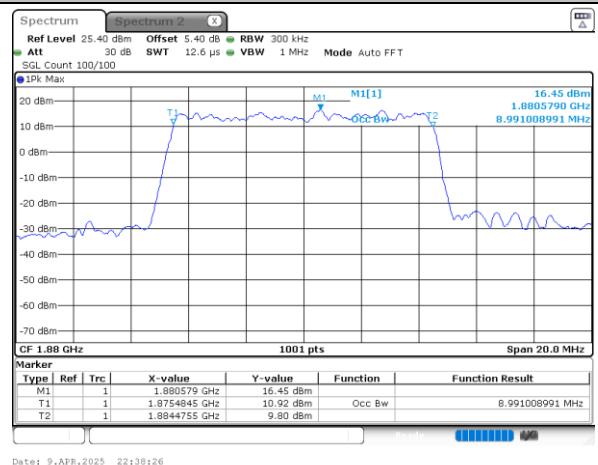


LTE Band 25

Middle Channel / 10MHz / QPSK



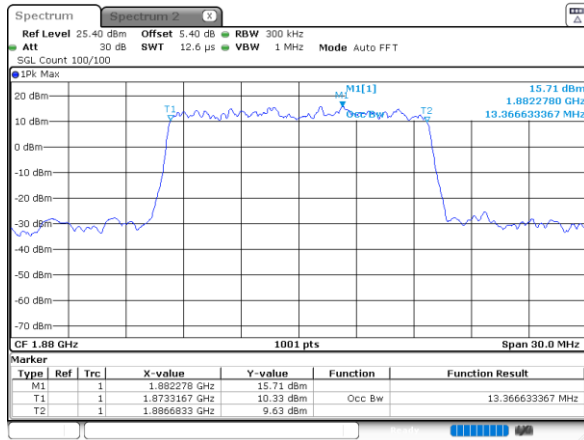
Middle Channel / 10MHz / 16QAM



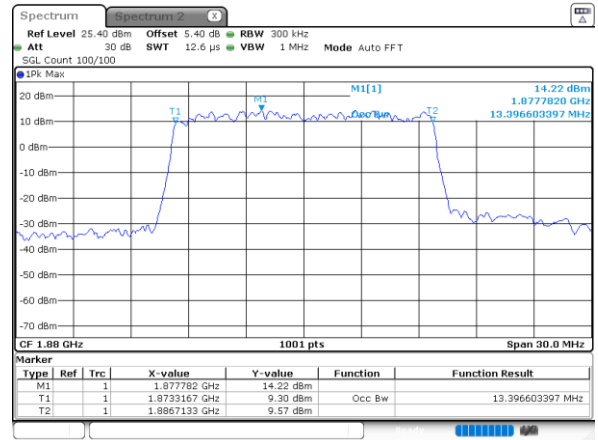


LTE Band 25

Middle Channel / 15MHz / QPSK

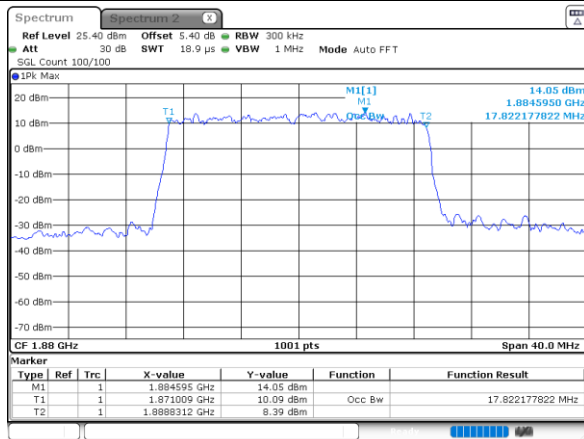


Middle Channel / 15MHz / 16QAM

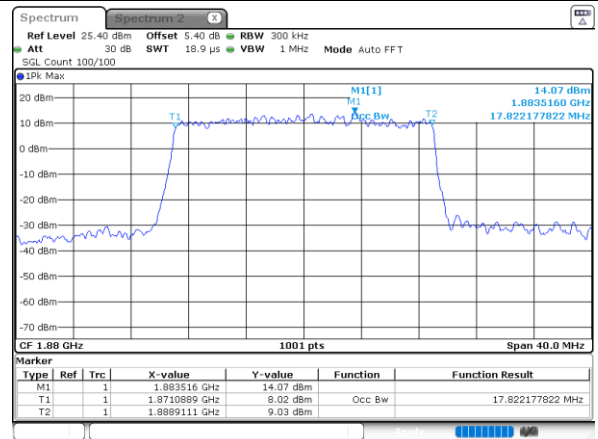


LTE Band 25

Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

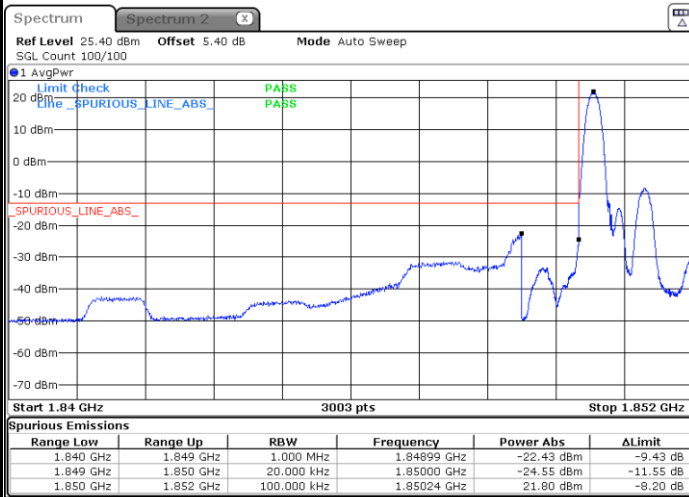




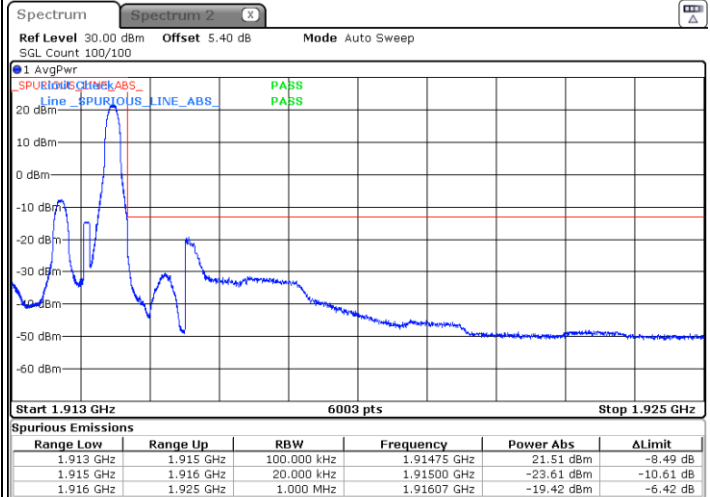
Conducted Band Edge

LTE Band 25 / 1.4MHz / QPSK

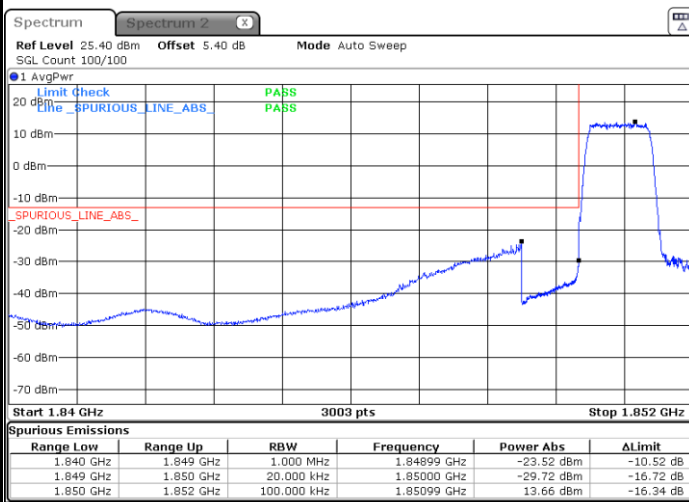
Lowest Band Edge / 1RB



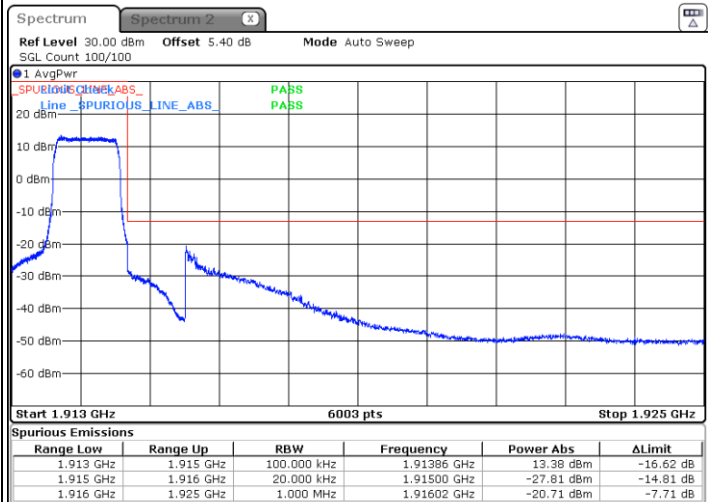
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



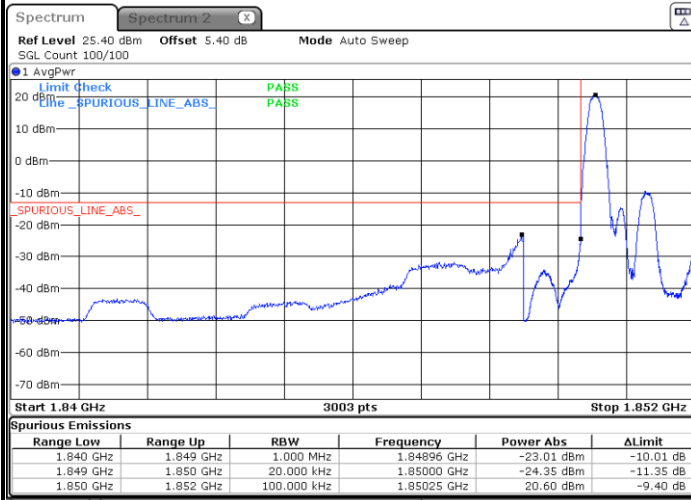
Highest Band Edge / Full RB



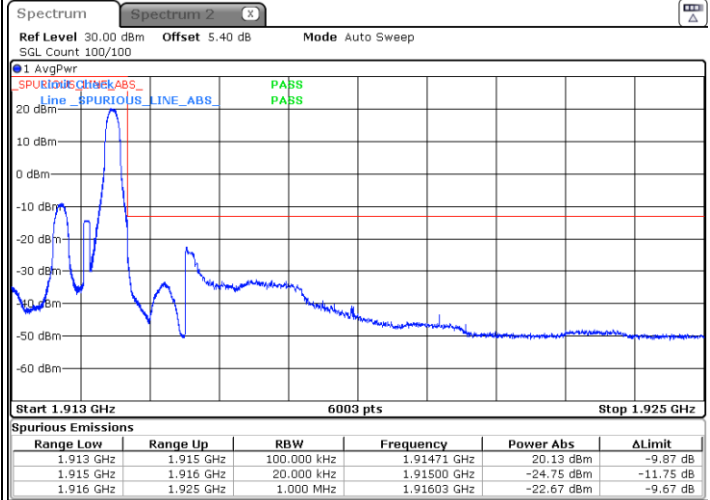


LTE Band 25 / 1.4MHz / 16QAM

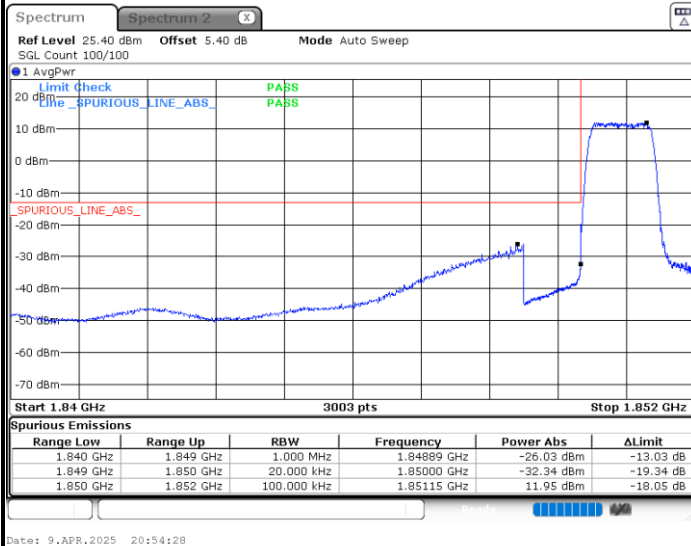
Lowest Band Edge / 1 RB



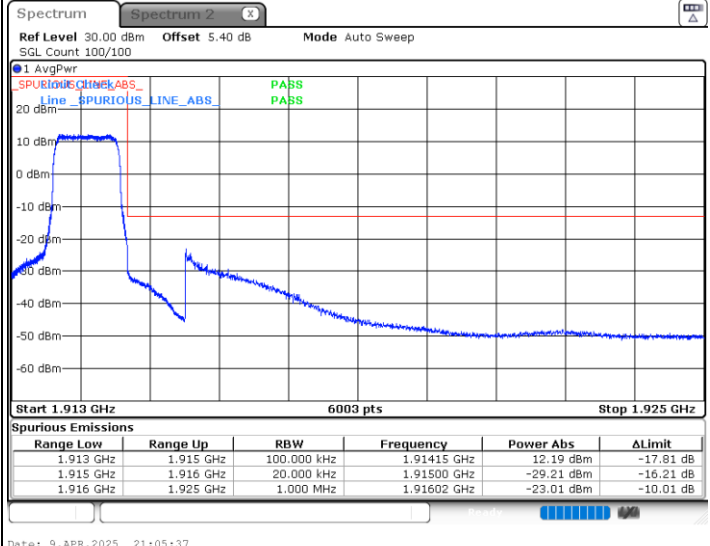
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



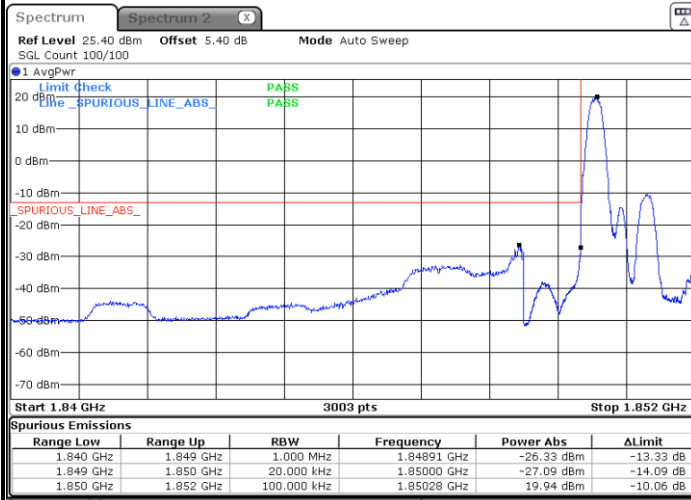
Highest Band Edge / Full RB



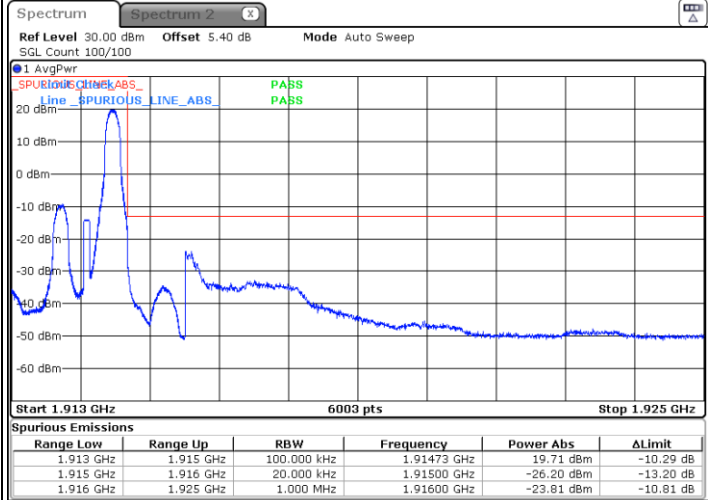


LTE Band 25 / 1.4MHz / 64QAM

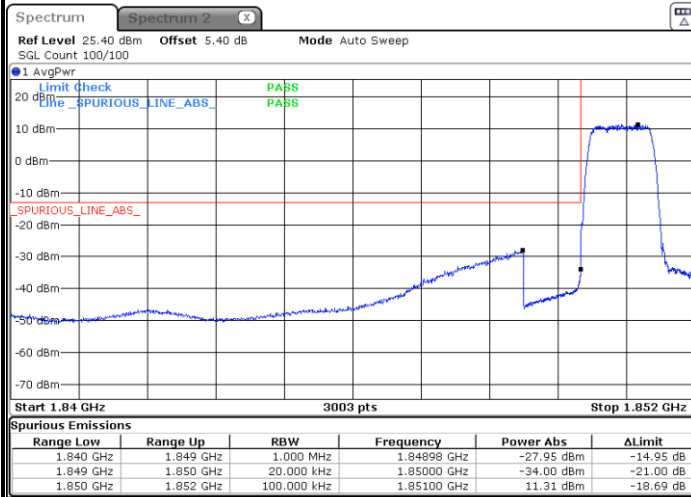
Lowest Band Edge / 1 RB



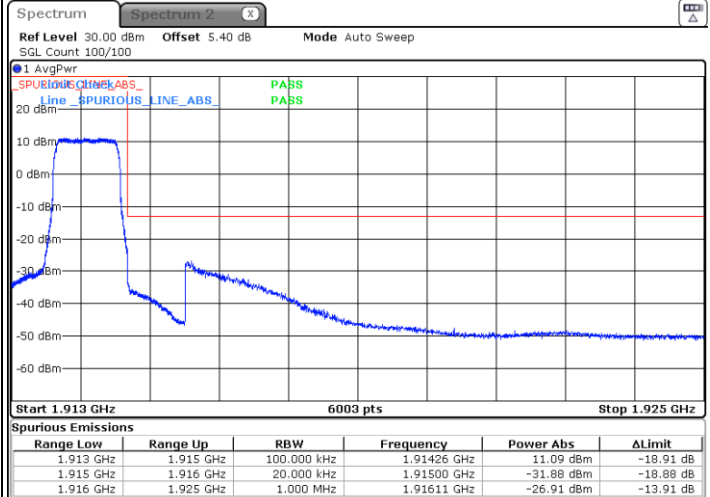
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



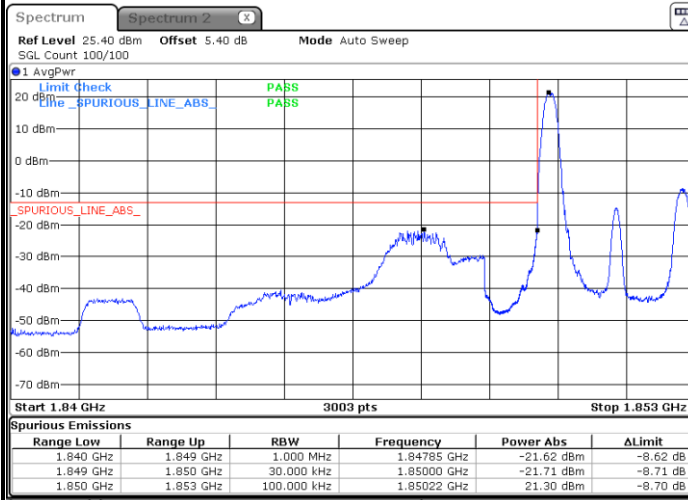
Highest Band Edge / Full RB



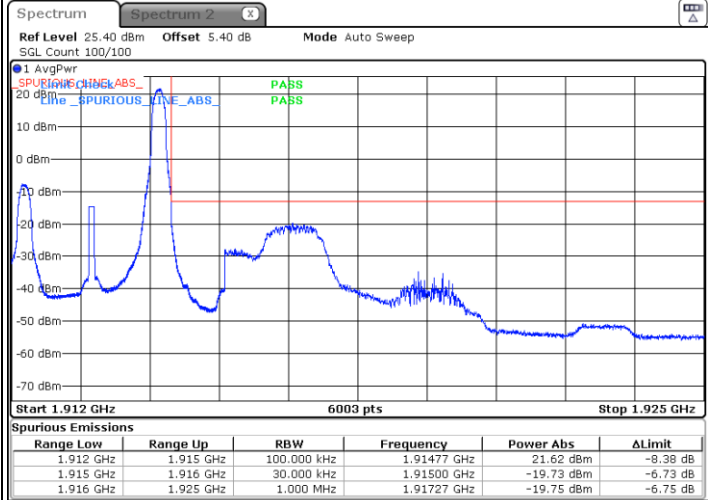


LTE Band 25 / 3MHz / QPSK

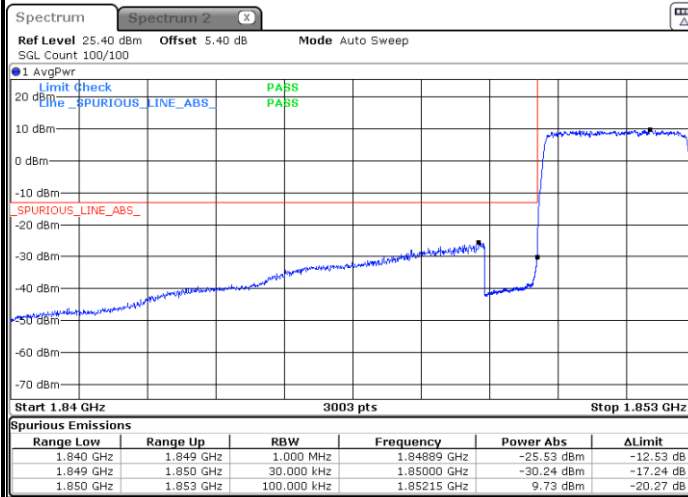
Lowest Band Edge / 1RB



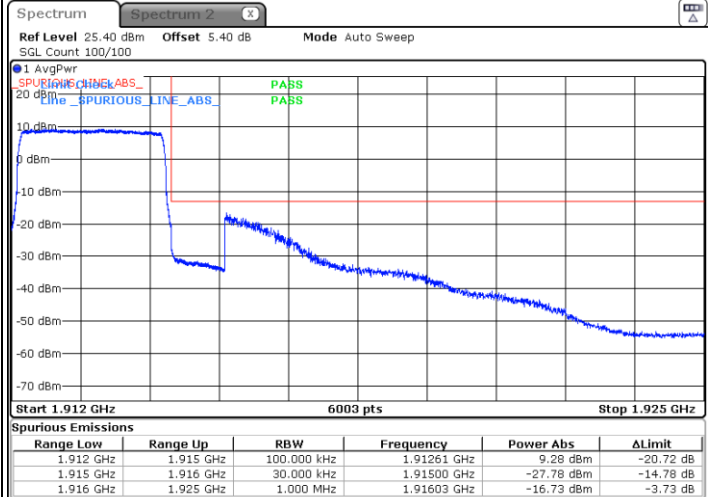
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



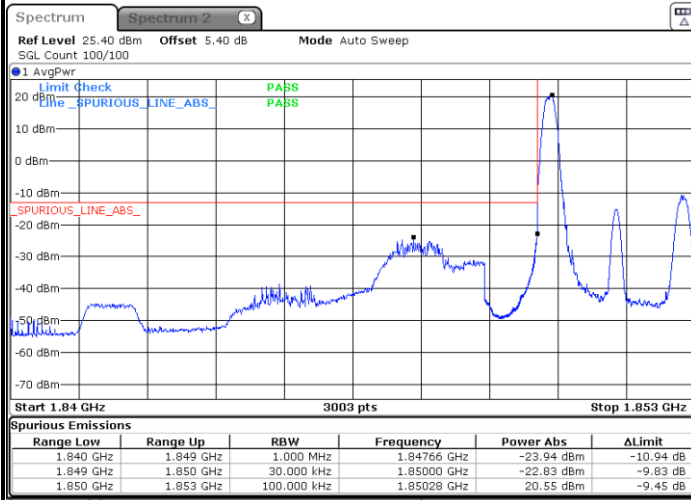
Highest Band Edge / Full RB



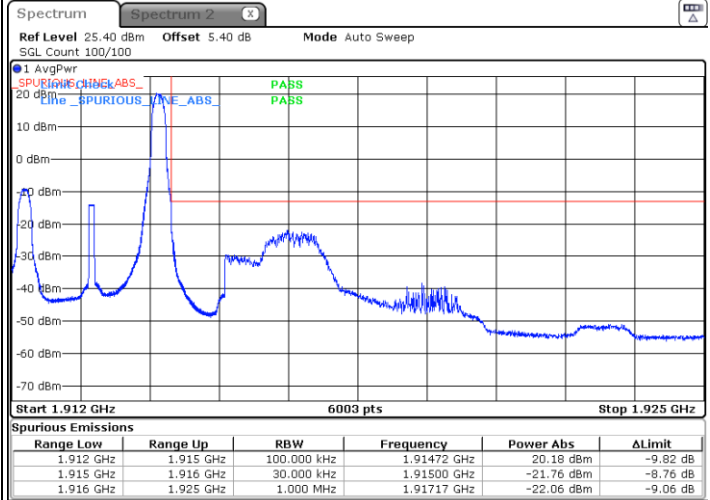


LTE Band 25 / 3MHz / 16QAM

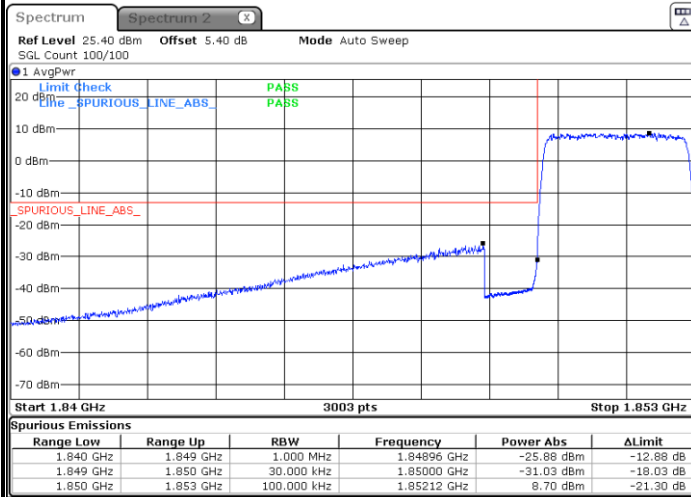
Lowest Band Edge / 1 RB



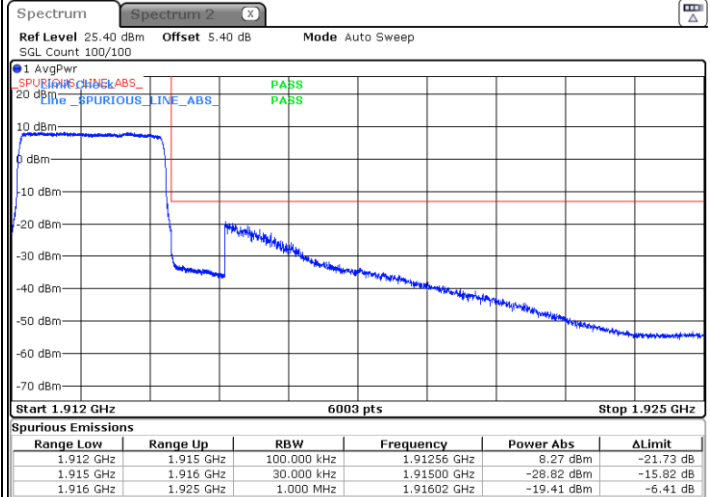
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



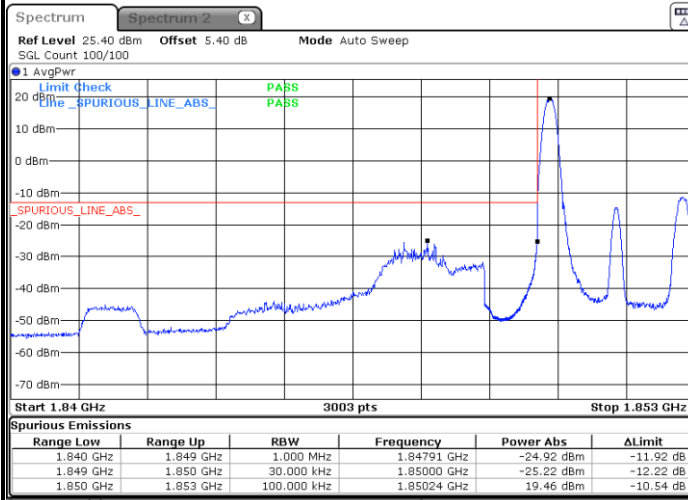
Highest Band Edge / Full RB



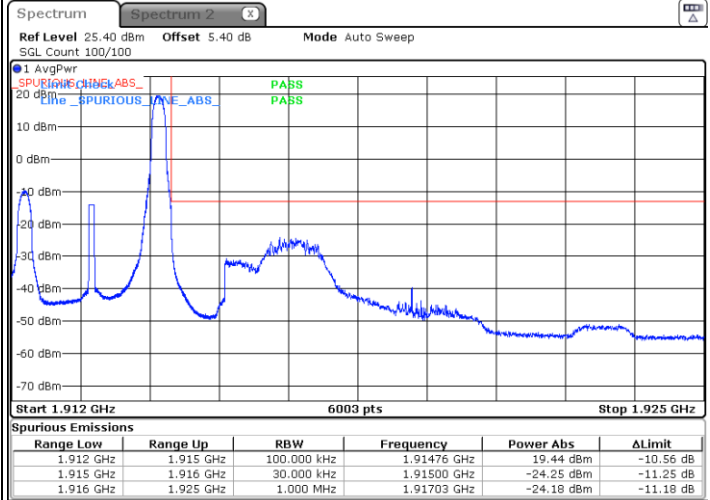


LTE Band 25 / 3MHz / 64QAM

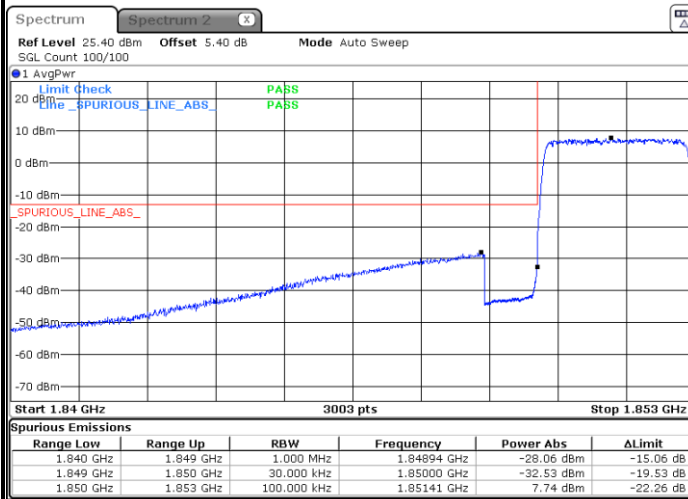
Lowest Band Edge / 1 RB



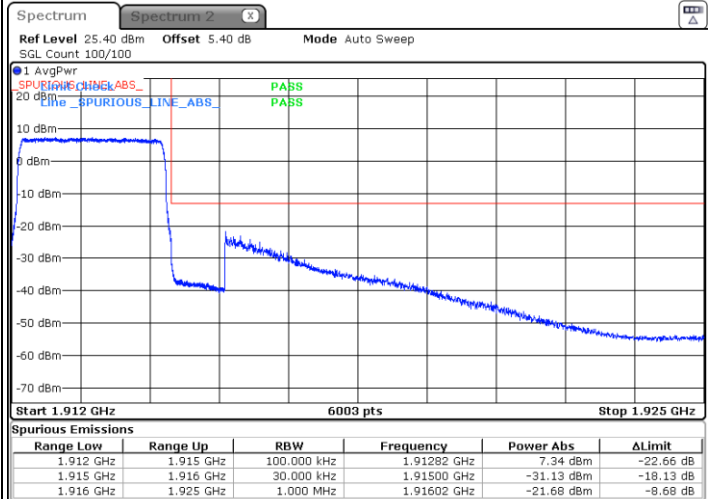
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



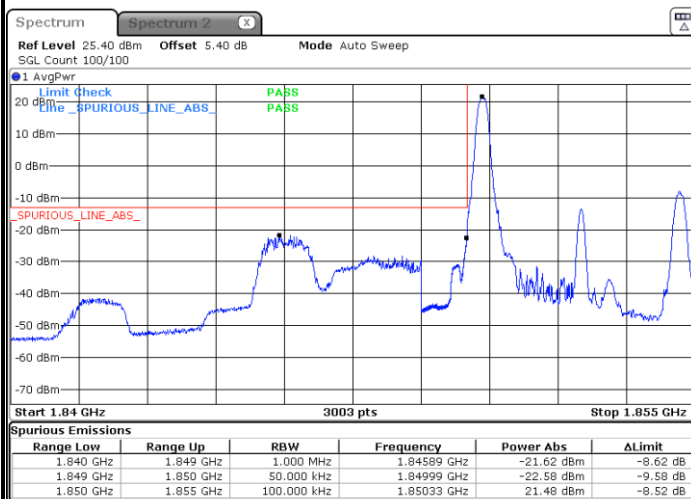
Highest Band Edge / Full RB



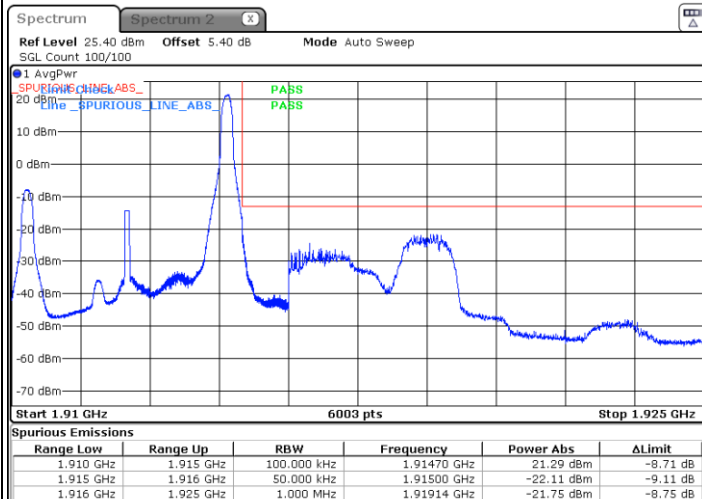


LTE Band 25 / 5MHz / QPSK

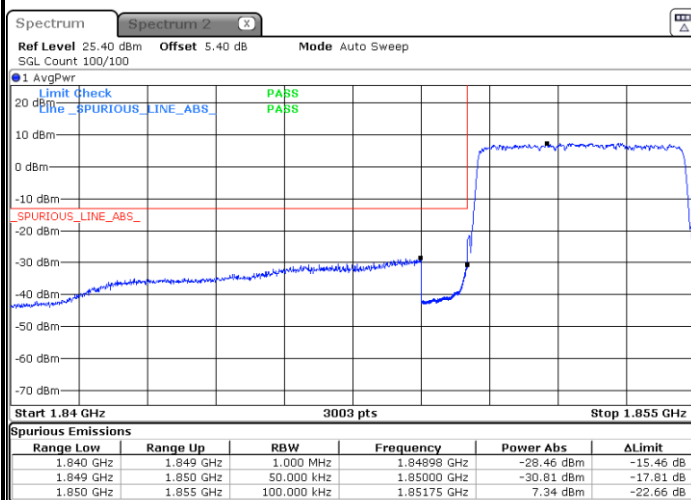
Lowest Band Edge / 1 RB



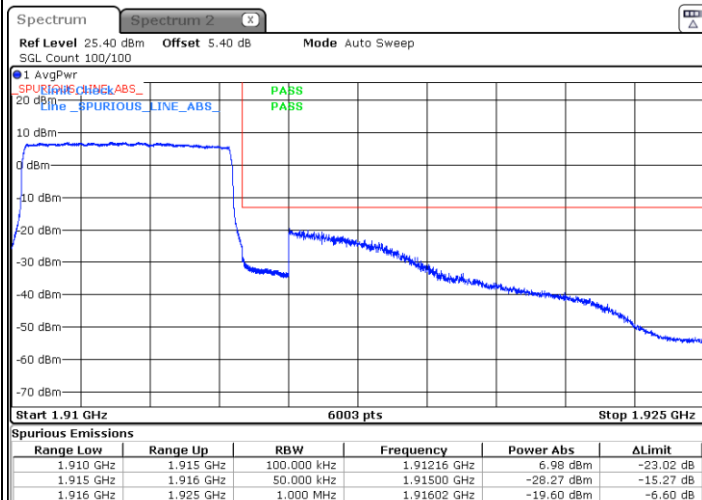
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



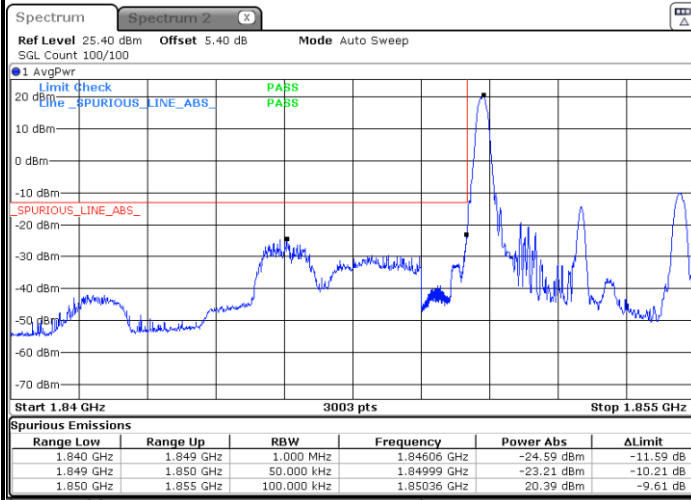
Highest Band Edge / Full RB





LTE Band 25 / 5MHz / 16QAM

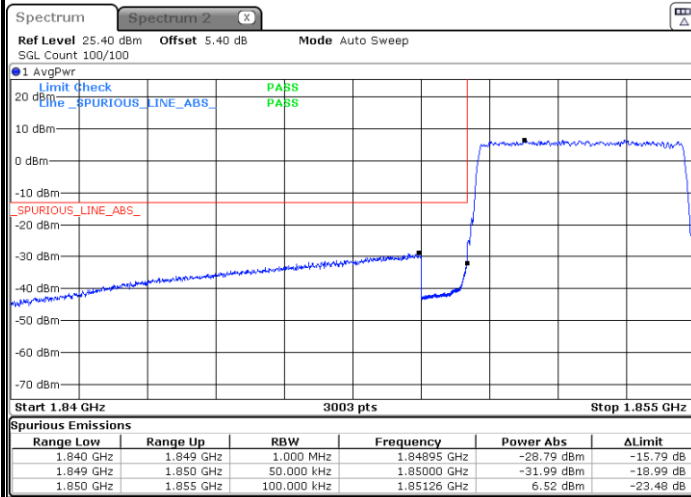
Lowest Band Edge / 1RB



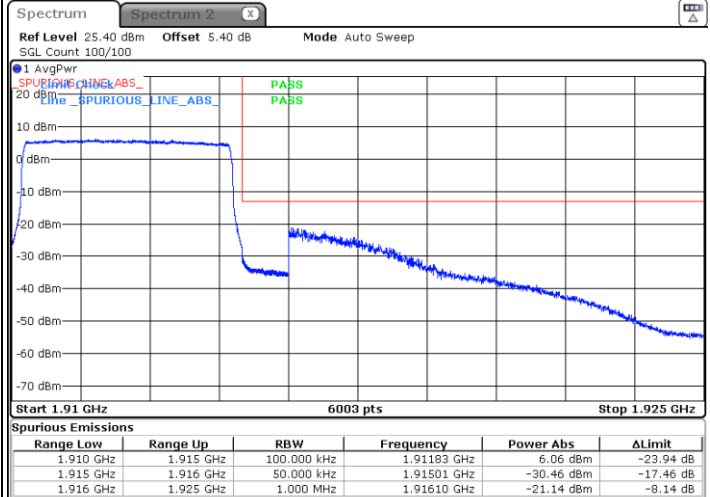
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



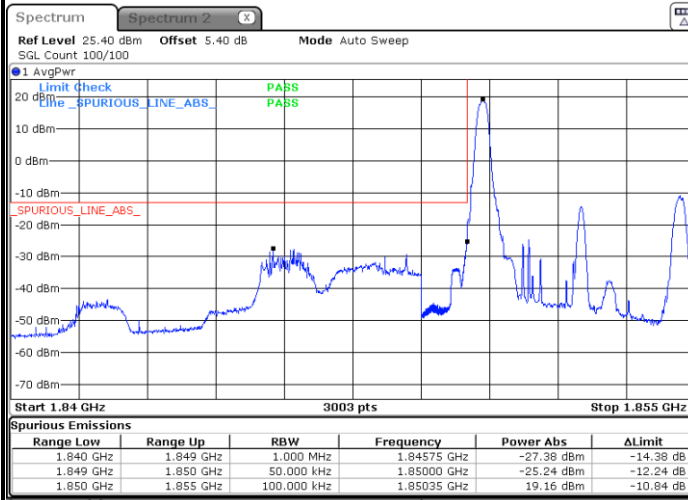
Highest Band Edge / Full RB



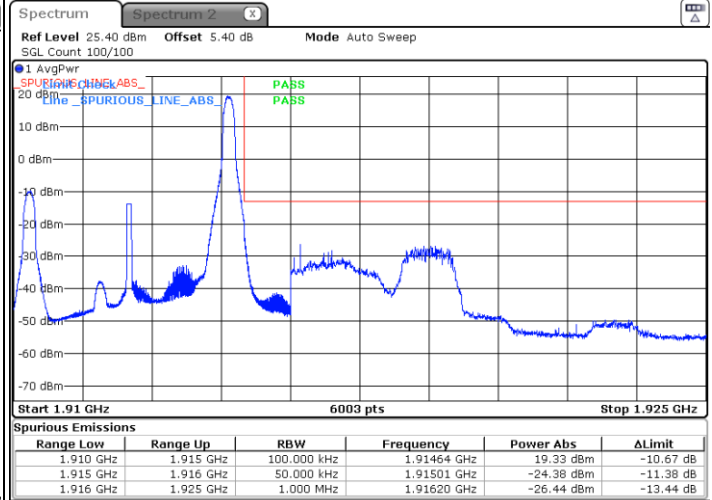


LTE Band 25 / 5MHz / 64QAM

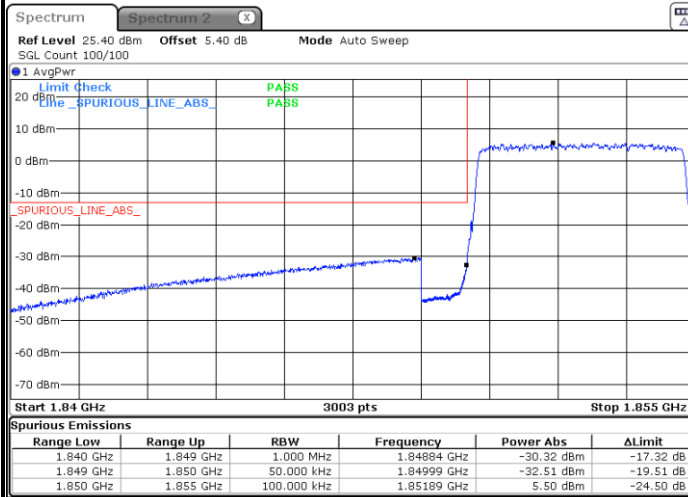
Lowest Band Edge / 1RB



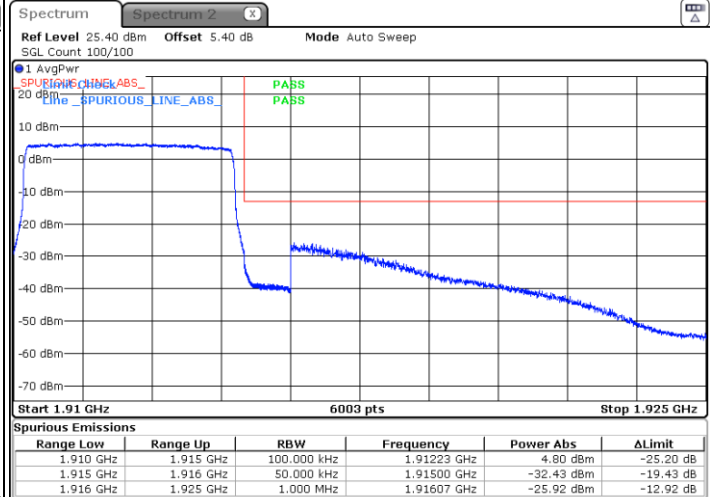
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



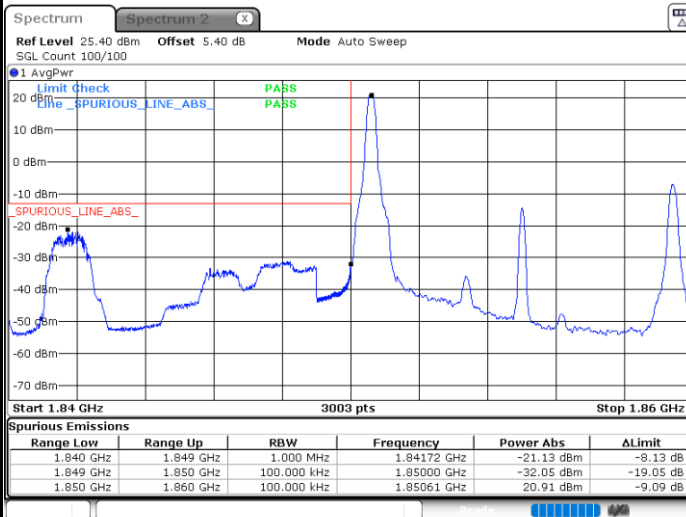
Highest Band Edge / Full RB



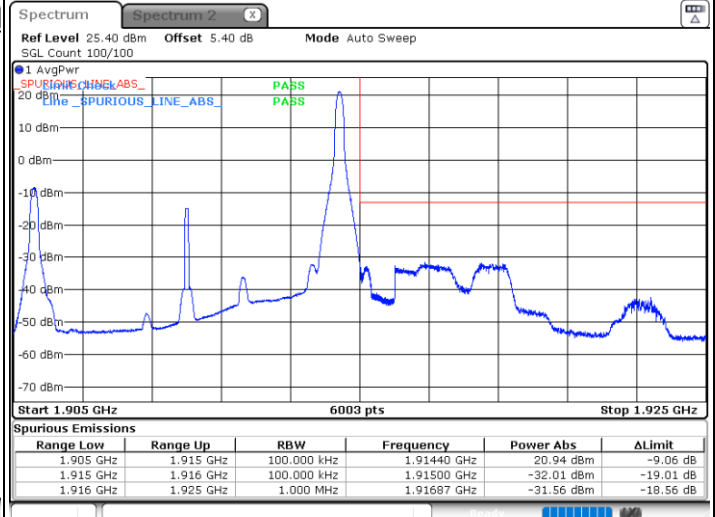


LTE Band 25 / 10MHz / QPSK

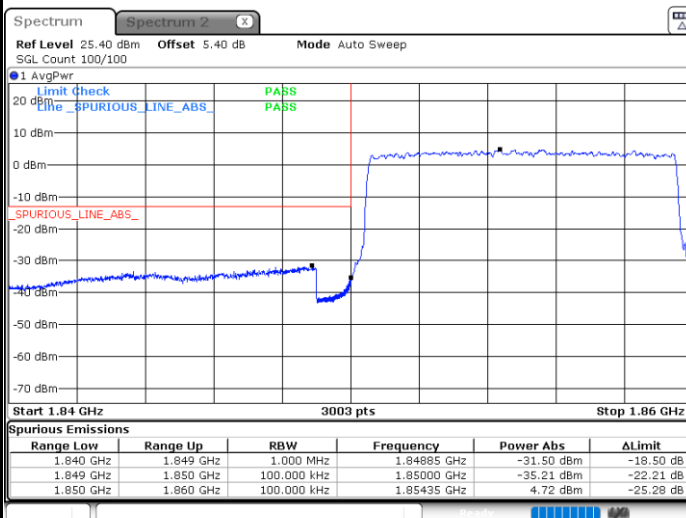
Lowest Band Edge / 1 RB



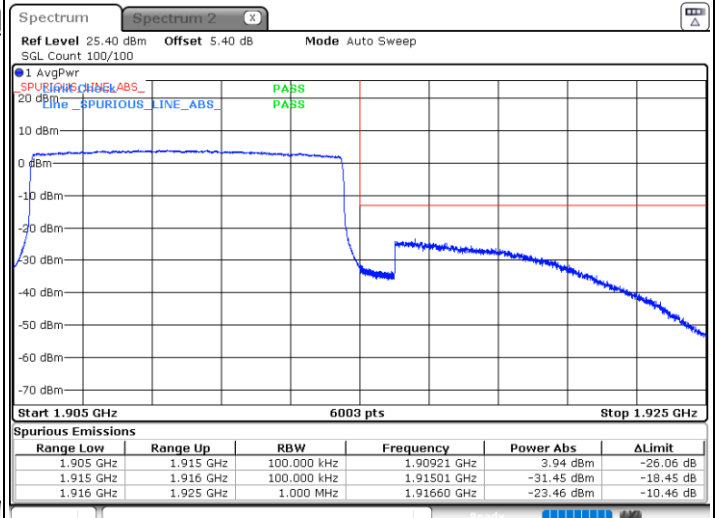
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



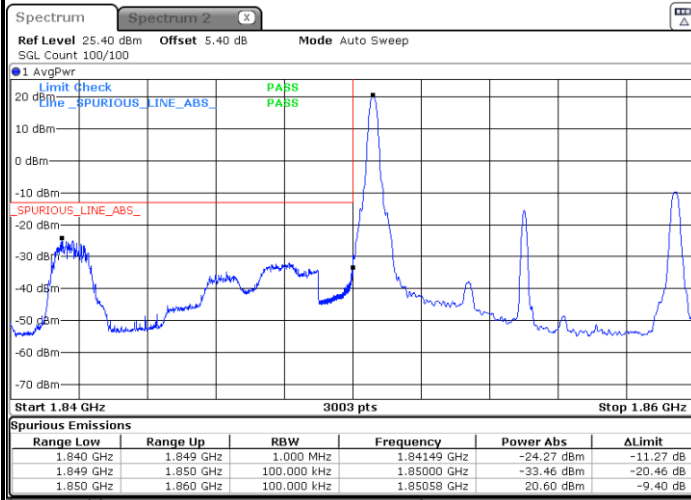
Highest Band Edge / Full RB



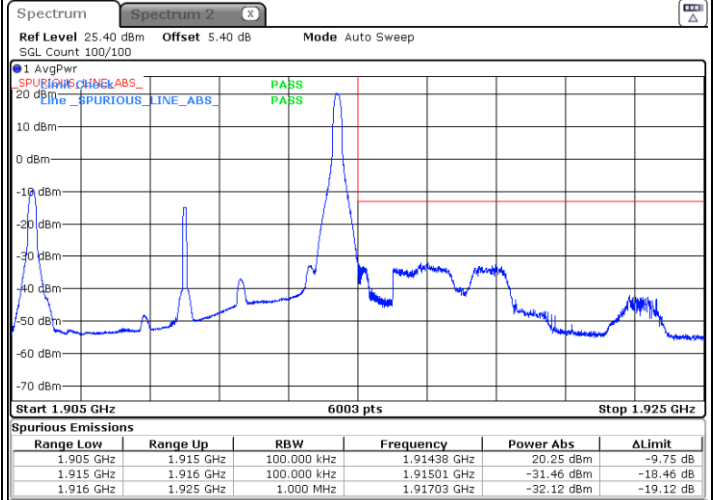


LTE Band 25 / 10MHz / 16QAM

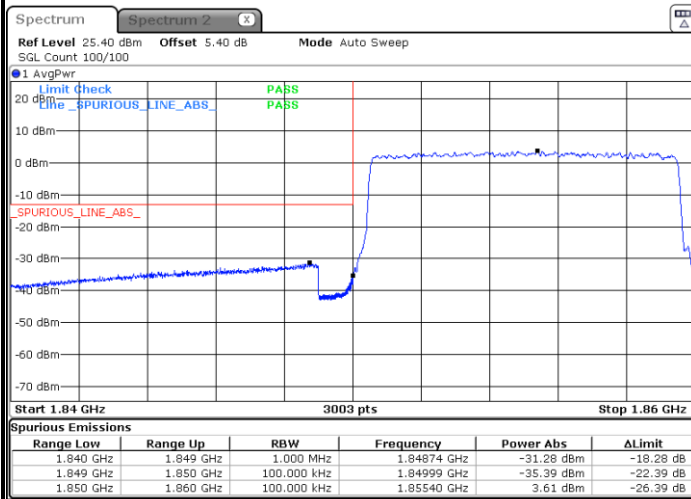
Lowest Band Edge / 1 RB



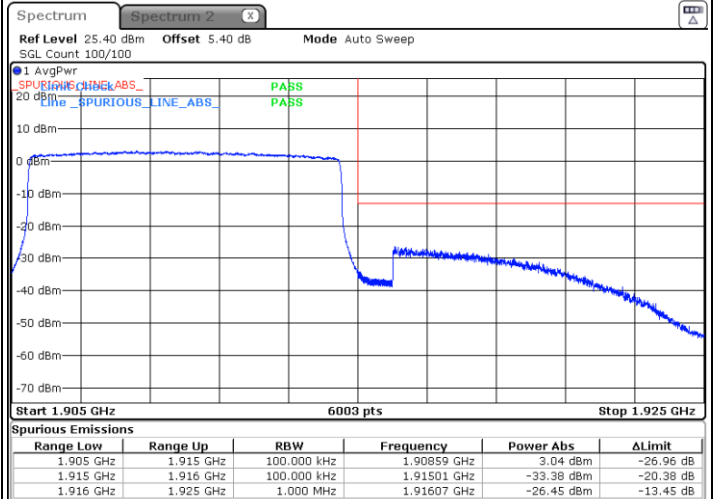
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



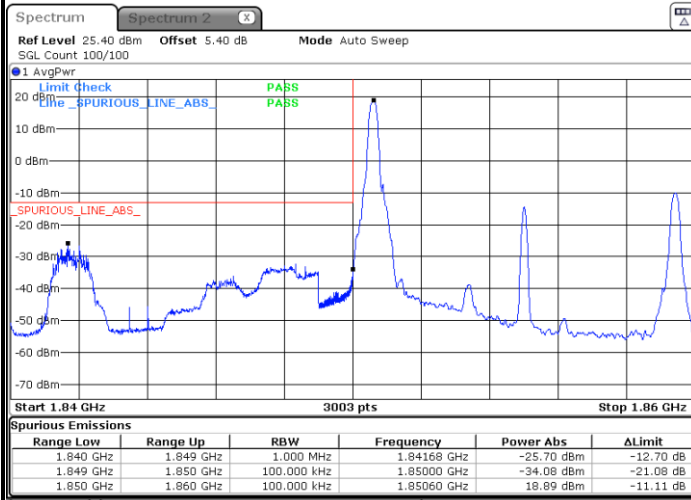
Highest Band Edge / Full RB



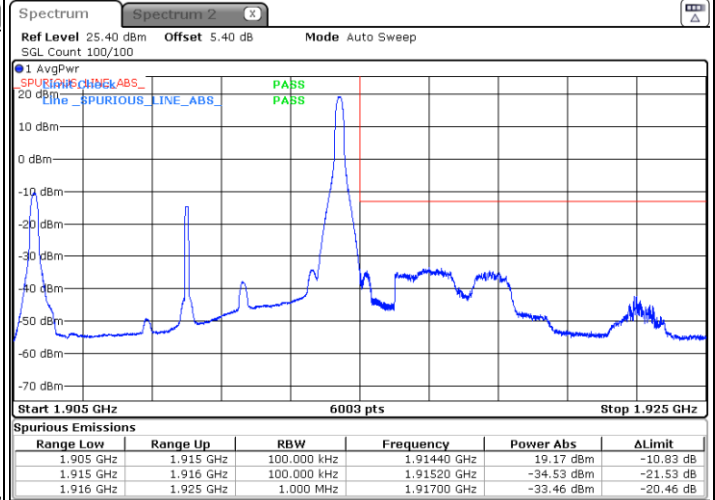


LTE Band 25 / 10MHz / 64QAM

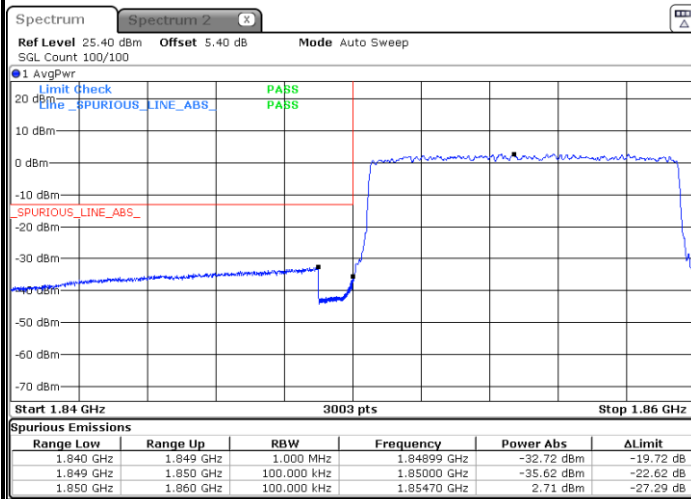
Lowest Band Edge / 1 RB



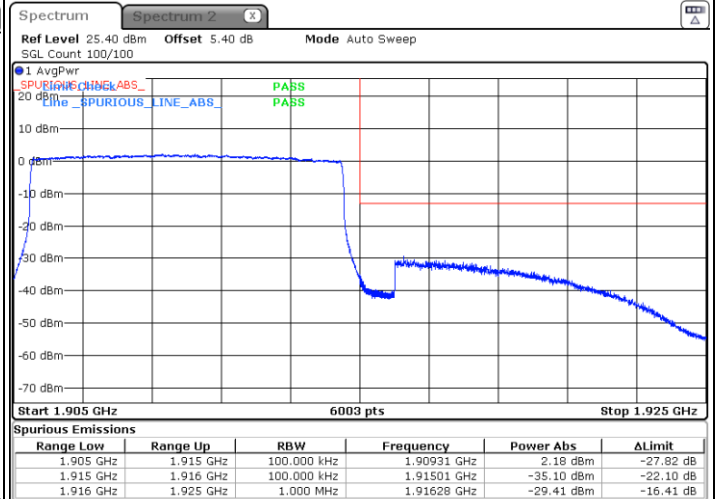
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



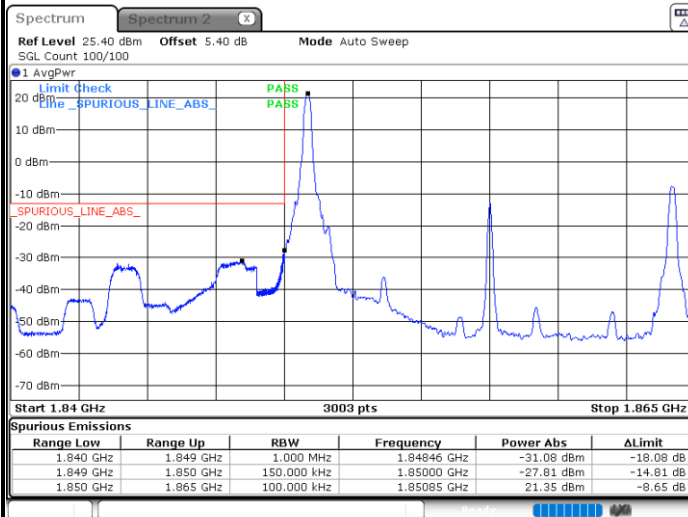
Highest Band Edge / Full RB



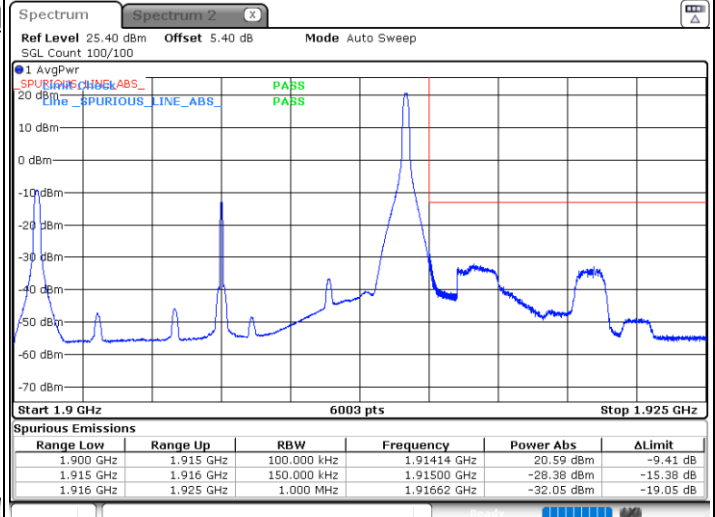


LTE Band 25 / 15MHz / QPSK

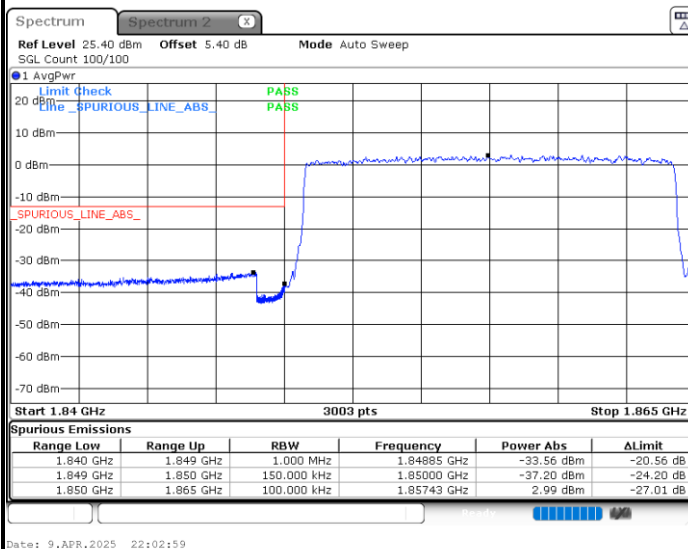
Lowest Band Edge / 1 RB



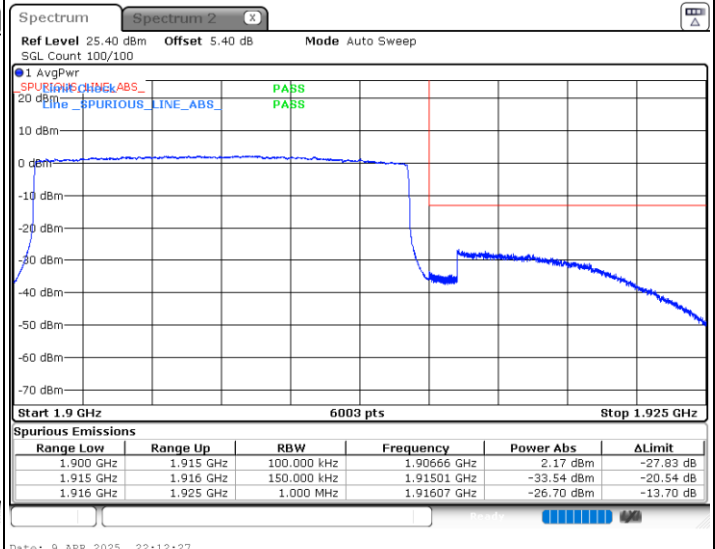
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



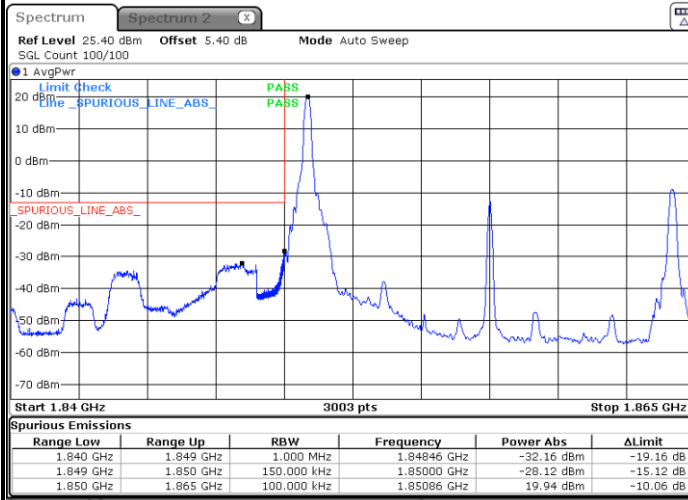
Highest Band Edge / Full RB



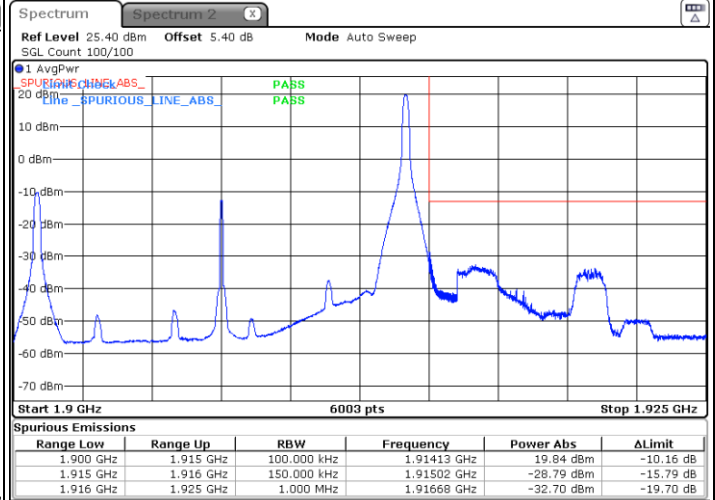


LTE Band 25 / 15MHz / 16QAM

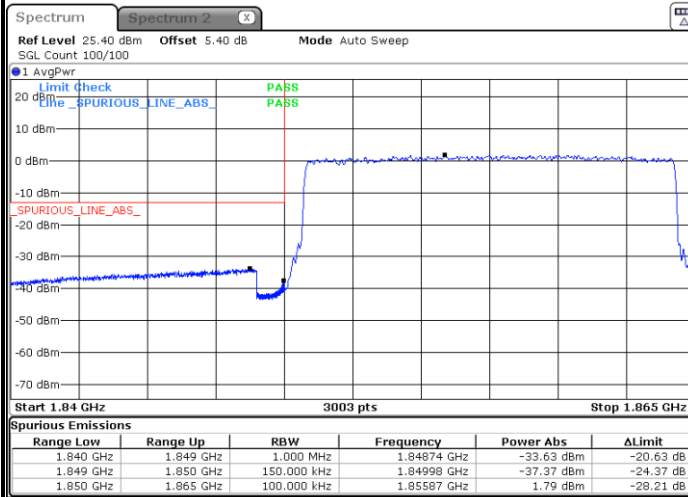
Lowest Band Edge / 1 RB



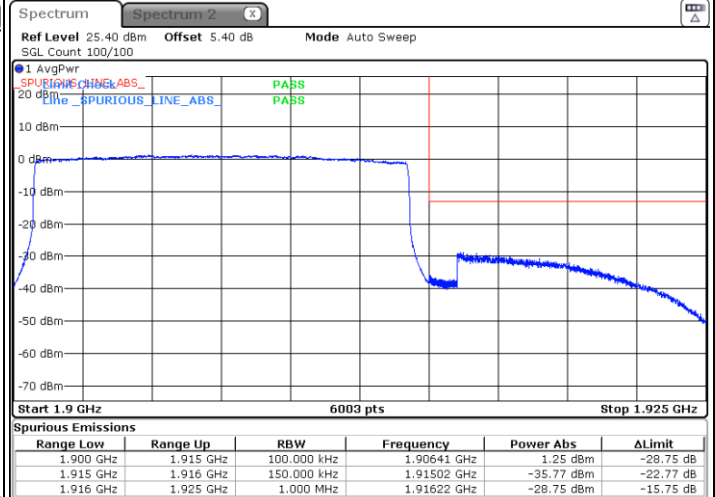
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



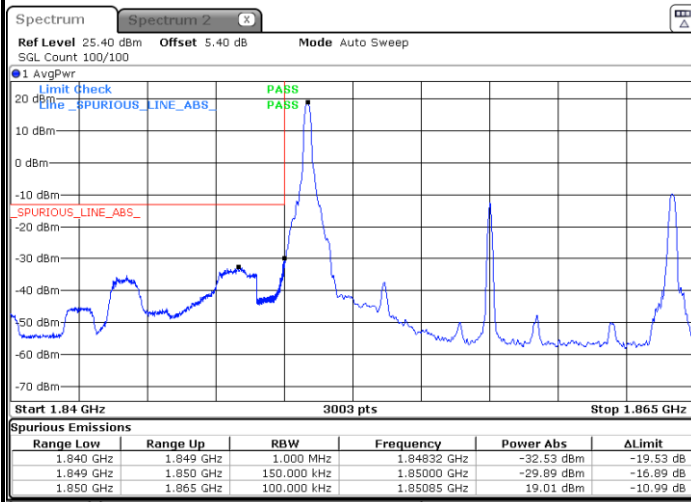
Highest Band Edge / Full RB



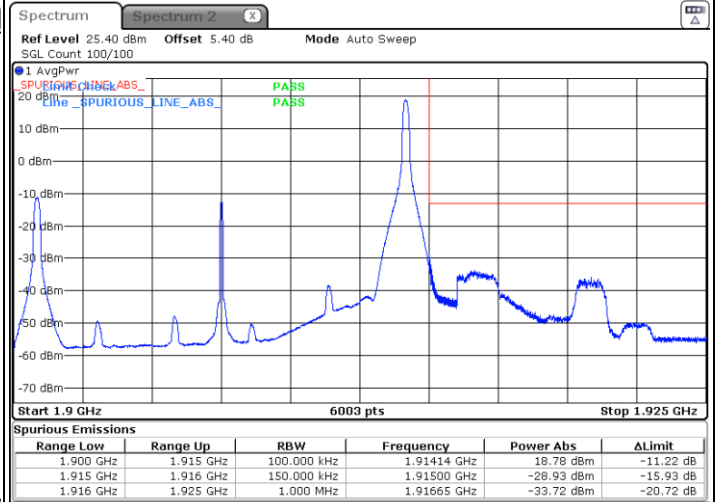


LTE Band 25 / 15MHz / 64QAM

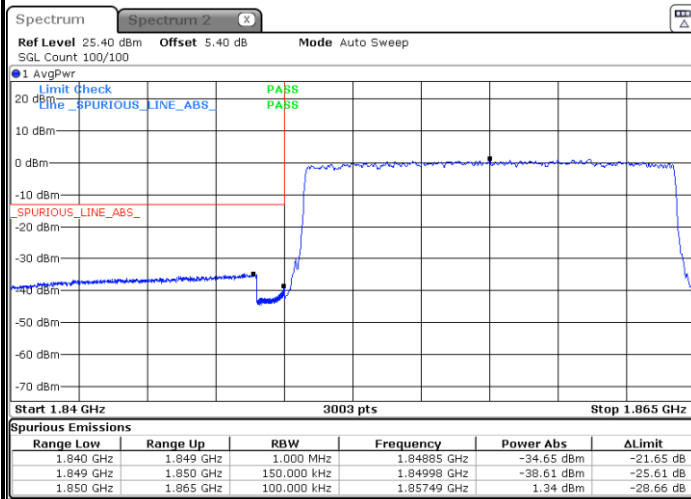
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

