



FCC RF Test Report

APPLICANT : VeriFone, Inc.
EQUIPMENT : Point of Sale Terminal
BRAND NAME : Verifone or VERIFONE or verifone
MODEL NAME : UX600-4G-A, UX600-T-A
FCC ID : B32UX6004GA
STANDARD : 47 CFR Part 27(F), 27(H), 27(M), 27(N)
CLASSIFICATION : PCS Licensed Transmitter (PCB)
TEST DATE(S) : Mar. 27, 2025 ~ Apr. 03, 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.

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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)

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG522406B	Rev. 01	Initial issue of report	May 23, 2025

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	Report Only	-
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (Band 12) (Band 13) (Band 17) (Band 71)	ERP < 3 Watt		-
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 7) (Band 41)	EIRP < 2Watt		-
3.5	N/A	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	-	Report Only	-
3.7	§2.1051 §27.53(c)(2)(4) §27.53(g)	Conducted Band Edge Measurement (Band 12) (Band 13) (Band 17) (Band 71)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7) (Band 41)	§27.53(m)(4)		
3.8	§2.1051 §27.53(c)(2) §27.53(g)	Conducted Spurious Emission (Band 12) (Band 13) (Band 17) (Band 71)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7) (Band 41)	< 55+10log ₁₀ (P[Watts])		
3.9	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(c)(2) §27.53(f) §27.53(g)	Radiated Spurious Emission (Band 12) (Band 13) (Band 17) (Band 71)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 17.23 dB at 1560.00 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7) (Band 41)	< 55+10log ₁₀ (P[Watts])		

Conformity Assessment Condition:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/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	UX600-4G-A, UX600-T-A
FCC ID	B32UX6004GA
SN Code	Conducted: E14K5BC06000028 Radiation: E14K5BC06000096 for Sample 1 E14K5BR100000022 for Sample 2
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are two samples under test: Sample 1(UX600-4G-A) supports PSCR, Sample 2(UX600-T-A) doesn't support. According to the difference, we evaluate Sample 1 to perform full test, and Sample 2 to verify the worse cases of RSE and test results shown in this report.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 7 : 2500 MHz ~ 2570 MHz LTE Band 12 : 699 MHz ~ 716 MHz LTE Band 13 : 777 MHz ~ 787 MHz LTE Band 17 : 704 MHz ~ 716 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz LTE Band 71: 663 MHz ~ 698 MHz
Rx Frequency	LTE Band 7 : 2620 MHz ~ 2690 MHz LTE Band 12 : 729 MHz ~ 746 MHz LTE Band 13 : 746 MHz ~ 756 MHz LTE Band 17 : 734 MHz ~ 746 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz LTE Band 71: 617 MHz ~ 652 MHz
Bandwidth	LTE Band 7 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13 : 5MHz / 10MHz LTE Band 17 : 5MHz / 10MHz LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 71 : 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 7 : 22.33 dBm LTE Band 12 : 23.23 dBm LTE Band 13 : 23.03 dBm LTE Band 17 : 22.97 dBm LTE Band 41 : 22.28 dBm LTE Band 71 : 23.02 dBm
Antenna Gain	LTE Band 7 : 2.6 dBi LTE Band 12 : 2.3 dBi LTE Band 13 : 2.8 dBi LTE Band 17 : 2.3 dBi LTE Band 41 : 5.2 dBi LTE Band 71 : 2.3 dBi
Type of Modulation	QPSK / 16QAM

1.5 Modification of EUT

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



1.6 Maximum ERP/EIRP Power and Emission Designator

LTE Band 7		QPSK		16QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2502.5 ~ 2567.5	0.3112	4M49G7D	0.2254	4M49W7D
10	2505.0 ~ 2565.0	0.2958	9M01G7D	0.2259	8M95W7D
15	2507.5 ~ 2562.5	0.2951	13M4G7D	0.2323	13M4W7D
20	2510.0 ~ 2560.0	0.2897	17M9G7D	0.2286	17M8W7D
LTE Band 12		QPSK		16QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
1.4	699.7 ~ 715.3	0.1950	1M08G7D	0.1618	1M09W7D
3	700.5 ~ 714.5	0.2000	2M71G7D	0.1500	2M70W7D
5	701.5 ~ 713.5	0.2178	4M49G7D	0.1629	4M48W7D
10	704.0 ~ 711.0	0.2123	9M03G7D	0.1542	8M95W7D
LTE Band 13		QPSK		16QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
5	779.5 ~ 784.5	0.2333	4M50G7D	0.1905	4M49W7D
10	782.0	0.2223	8M99G7D	0.1795	8M93W7D
LTE Band 17		QPSK		16QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
5	706.5 ~ 713.5	0.2051	4M49G7D	0.1483	4M48W7D
10	709.0 ~ 711.0	0.2000	9M03G7D	0.1545	8M95W7D
LTE Band 41		QPSK		16QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2498.5 ~ 2687.5	0.5508	4M46G7D	0.3837	4M47W7D
10	2501.0 ~ 2685.0	0.5598	9M05G7D	0.4111	9M03W7D
15	2503.5 ~ 2682.5	0.5445	13M3G7D	0.4150	13M5W7D
20	2506.0 ~ 2680.0	0.5408	17M8G7D	0.3999	17M8W7D



LTE Band 71		QPSK		16QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
5	665.5 ~ 695.5	0.2075	4M50G7D	0.1459	4M47W7D
10	668.0 ~ 693.0	0.2051	9M01G7D	0.1603	8M99W7D
15	670.5 ~ 690.5	0.2061	13M4G7D	0.1698	13M4W7D
20	673.0 ~ 688.0	0.2018	17M9G7D	0.1409	17M8W7D

Note: LTE Band 12 overlaps the entire frequency range of LTE Band 17. Therefore, the test results provided in this report covers Band 12 as well as Band 17.

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	CN1257	314309

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ	CN1256	421272

Test data subcontracted: Conducted test case in section 3.4~3.9 of this report.



1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH04-KS	AUDIX	E3	210616

1.9 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

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

Remark:

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



2 Test Configuration of Equipment Under Test

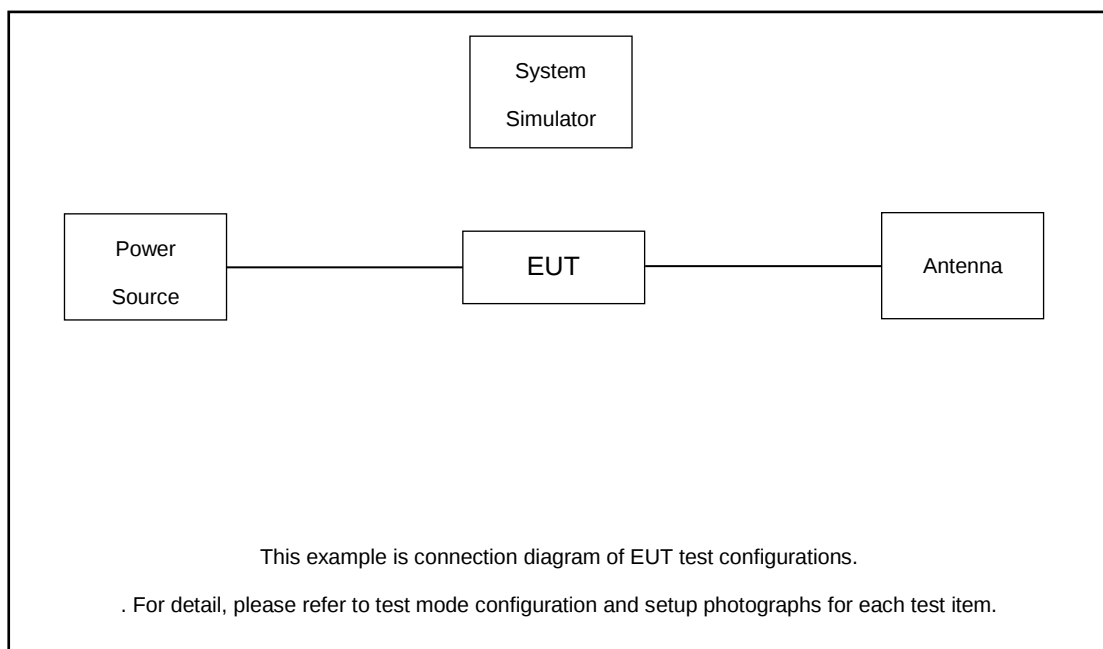
2.1 Test Mode

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

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

	13	-	-	v		-	-	v		-	-			v		v	
	41	-	-	v				v		-	-			v		v	
	71	-	-	v				v		-	-			v		v	
E.R.P / E.I.R.P	7	-	-	v	v	v	v	v	v	-	-	v	v	v	v	v	v
	12	v	v	v	v	-	-	v	v	-	-	v	v	v	v	v	v
	13	-	-	v	v	-	-	v	v	-	-	v	v	v	v	v	v
	17	-	-	v	v	-	-	v	v	-	-	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	-	-	v	v	v	v	v	v
	71	-	-	v	v	v	v	v	v	-	-	v	v	v	v	v	v
Radiated Spurious Emission	7	Worst Case													v	v	v
	12	Worst Case													v	v	v
	13	Worst Case													v	v	v
	41	Worst Case													v	v	v
	71	Worst Case													v	v	v
Note	1. The mark "v " means that this configuration is chosen for testing 2. The mark "- " means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.																

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	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 and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 5.0 dB and 10dB attenuator.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 5.0 + 10 = 15.0 \text{ (dB)} \end{aligned}$$

2.5 Frequency List of Low/Middle/High Channels

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



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

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

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



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

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

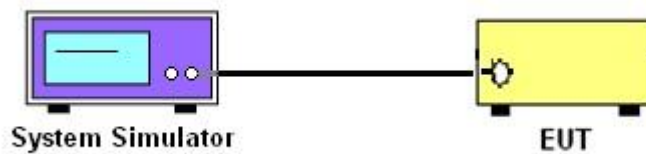
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.2 Test Setup

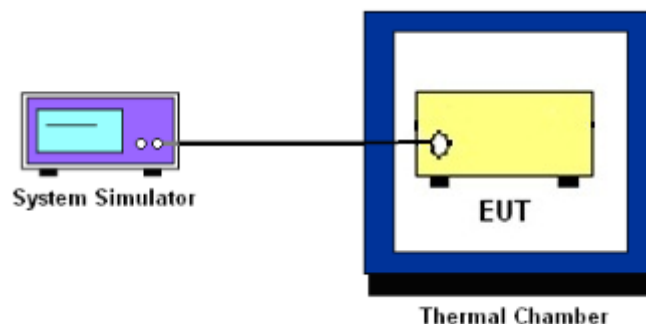
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

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

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

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

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

According to KDB 412172 D01 Power Approach,

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

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.4.2 Test Procedures

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



3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

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

3.5.2 Test Procedures

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

3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

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

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

3.6.2 Test Procedures

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

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

27.53 (c)

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

27.53 (g)

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

27.53(m)(4)

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

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW $\geq 1\%$ / 2% EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
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. For LTE Band 7, 41, the other 40 dB, and 55 dB have additionally applied same calculation above.
9. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 7,41:

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

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

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13$ dBm.
11. For Band 7, 41
The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [55 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[55 + 10\log(P)]$ (dB)
 $= -25$ dBm.

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block.

3.9.2 Test Procedures for Temperature Variation

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

3.9.3 Test Procedures for Voltage Variation

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

4 Radiated Test Items

4.1 Measuring Instruments

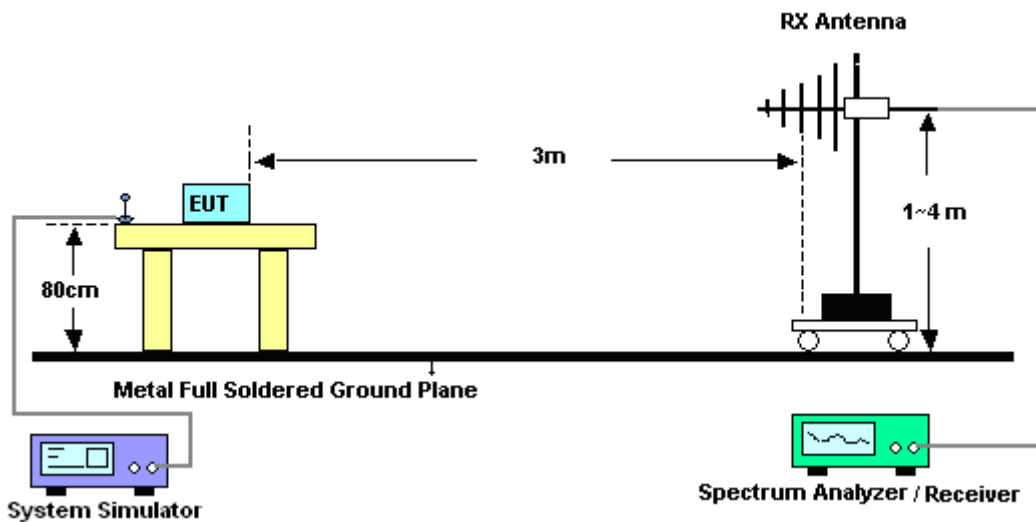
See list of measuring instruments of this test report.

4.2 Test Setup

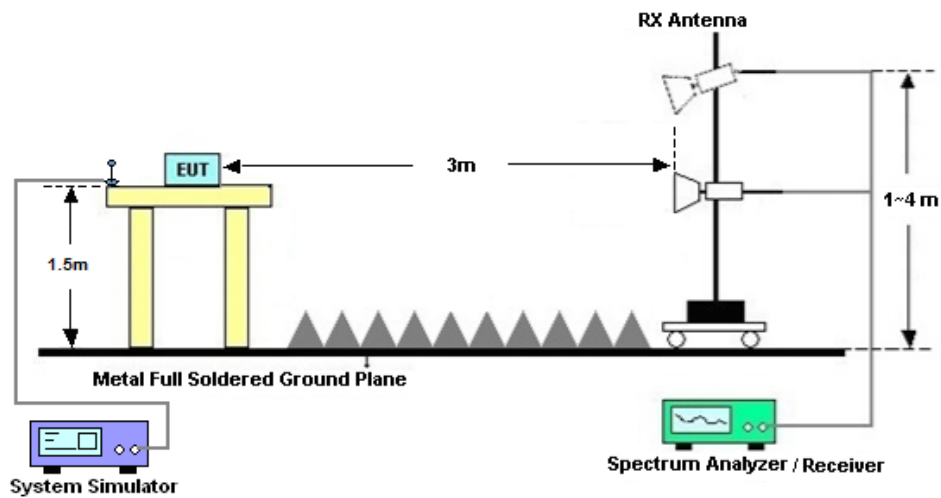
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.



4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

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

For Band 7, 41

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

For LTE Band 13

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

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

4.4.2 Test Procedures

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

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

13. For Band 7, 41:

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



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 03, 2024	Mar. 27, 2025~ Apr. 01, 2025	Apr. 02, 2025	Conducted (TH01-SZ)
Power Divider	Titan	P02N005180	923402	0.4GHz~26.5GHz	Nov. 08, 2024	Mar. 27, 2025~ Apr. 01, 2025	Nov. 07, 2025	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 03, 2024	Mar. 27, 2025~ Apr. 01, 2025	Jul. 02, 2025	Conducted (TH01-SZ)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44G,MAX 30dB	Oct. 11, 2024	Apr. 03, 2025	Oct. 10, 2025	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Apr. 03, 2025	Sep. 07, 2025	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Nov. 23, 2024	Apr. 03, 2025	Nov. 22, 2025	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00227860	1GHz~18GHz	Aug. 16, 2024	Apr. 03, 2025	Aug. 15, 2025	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101116	18GHz~40GHz	Oct. 22, 2024	Apr. 03, 2025	Oct. 21, 2025	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	380826	9KHz-1GHz	Jul. 03, 2024	Apr. 03, 2025	Jul. 02, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM18G40G A	060852	18~40GHz	Jan. 03, 2025	Apr. 03, 2025	Jan. 02, 2026	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz-18Ghz	Oct. 09, 2024	Apr. 03, 2025	Oct. 08, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM01G18G A	060892	1Ghz-18Ghz	Oct. 09, 2024	Apr. 03, 2025	Oct. 08, 2025	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Apr. 03, 2025	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Apr. 03, 2025	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Apr. 03, 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	± 1.34 dB
Occupied Channel Bandwidth	± 0.012 MHz
Conducted Power	± 1.34 dB
Peak to Average Ratio	± 1.34 dB
Frequency Stability	± 1.3 Hz

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 :	Nina Cheng	Temperature :	24~26°C
		Relative Humidity :	50~53%

Conducted Output Power(Average power) and ERP/EIRP

LTE Band 7:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP	EIRP	EIRP
Channel				20850	21100	21350	20850	21100	21350
Frequency (MHz)				2510	2535	2560	2510	2535	2560
20	QPSK	1	0	21.93	21.88	21.83	0.2838	0.2805	0.2773
20	QPSK	1	49	21.94	22.02	21.95	0.2844	0.2897	0.2851
20	QPSK	1	99	21.92	21.98	21.95	0.2831	0.2871	0.2851
20	QPSK	50	0	20.71	20.75	20.81	0.2143	0.2163	0.2193
20	QPSK	50	24	20.66	20.72	20.75	0.2118	0.2148	0.2163
20	QPSK	50	50	20.39	20.43	20.51	0.1991	0.2009	0.2046
20	QPSK	100	0	20.77	20.87	20.74	0.2173	0.2223	0.2158
20	16QAM	1	0	20.60	20.69	20.74	0.2089	0.2133	0.2158
20	16QAM	1	49	20.91	20.97	20.99	0.2244	0.2275	0.2286
20	16QAM	1	99	20.52	20.47	20.55	0.2051	0.2028	0.2065
20	16QAM	50	0	20.71	20.63	20.74	0.2143	0.2104	0.2158
20	16QAM	50	24	19.84	19.91	19.99	0.1754	0.1782	0.1816
20	16QAM	50	50	19.85	19.78	19.81	0.1758	0.1730	0.1742
20	16QAM	100	0	19.86	19.81	19.86	0.1762	0.1742	0.1762
Channel				20825	21100	21375	20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5	2507.5	2535	2562.5
15	QPSK	1	0	22.01	21.94	22.02	0.2891	0.2844	0.2897
15	QPSK	1	37	22.03	21.79	22.10	0.2904	0.2748	0.2951
15	QPSK	1	74	21.77	21.81	21.92	0.2735	0.2761	0.2831
15	QPSK	36	0	20.86	20.82	20.90	0.2218	0.2198	0.2239
15	QPSK	36	20	20.77	20.70	20.81	0.2173	0.2138	0.2193
15	QPSK	36	39	20.66	20.72	20.76	0.2118	0.2148	0.2168
15	QPSK	75	0	20.83	20.75	20.83	0.2203	0.2163	0.2203
15	16QAM	1	0	20.81	20.74	20.82	0.2193	0.2158	0.2198
15	16QAM	1	37	20.89	20.95	21.06	0.2234	0.2265	0.2323
15	16QAM	1	74	20.53	20.43	20.52	0.2056	0.2009	0.2051
15	16QAM	36	0	19.88	19.77	19.85	0.1770	0.1726	0.1758
15	16QAM	36	20	19.82	19.71	19.83	0.1746	0.1702	0.1750
15	16QAM	36	39	19.86	19.75	19.79	0.1762	0.1718	0.1734
15	16QAM	75	0	19.91	19.87	19.95	0.1782	0.1766	0.1799
Channel				20800	21100	21400	20800	21100	21400
Frequency (MHz)				2505	2535	2565	2505	2535	2565



10	QPSK	1	0	21.93	22.03	22.09	0.2838	0.2904	0.2944
10	QPSK	1	25	21.96	22.02	22.11	0.2858	0.2897	0.2958
10	QPSK	1	49	21.96	21.90	21.96	0.2858	0.2818	0.2858
10	QPSK	25	0	20.84	20.79	20.88	0.2208	0.2183	0.2228
10	QPSK	25	12	20.83	20.79	20.92	0.2203	0.2183	0.2249
10	QPSK	25	25	20.79	20.71	20.76	0.2183	0.2143	0.2168
10	QPSK	50	0	20.77	20.72	20.75	0.2173	0.2148	0.2163
10	16QAM	1	0	20.81	20.73	20.81	0.2193	0.2153	0.2193
10	16QAM	1	25	20.94	20.87	20.94	0.2259	0.2223	0.2259
10	16QAM	1	49	20.76	20.68	20.73	0.2168	0.2128	0.2153
10	16QAM	25	0	19.81	19.70	19.79	0.1742	0.1698	0.1734
10	16QAM	25	12	19.85	19.75	19.85	0.1758	0.1718	0.1758
10	16QAM	25	25	19.84	19.76	19.81	0.1754	0.1722	0.1742
10	16QAM	50	0	19.71	19.77	19.64	0.1702	0.1726	0.1675
Channel				20775	21100	21425	20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5	2502.5	2535	2567.5
5	QPSK	1	0	21.85	21.66	21.82	0.2786	0.2667	0.2767
5	QPSK	1	12	22.23	22.04	22.33	0.3041	0.2911	0.3112
5	QPSK	1	24	21.75	21.82	21.76	0.2723	0.2767	0.2729
5	QPSK	12	0	20.85	20.72	20.76	0.2213	0.2148	0.2168
5	QPSK	12	7	20.71	20.75	20.81	0.2143	0.2163	0.2193
5	QPSK	12	13	20.76	20.72	20.84	0.2168	0.2148	0.2208
5	QPSK	25	0	20.81	20.75	20.85	0.2193	0.2163	0.2213
5	16QAM	1	0	20.66	20.57	20.69	0.2118	0.2075	0.2133
5	16QAM	1	12	20.93	20.89	20.93	0.2254	0.2234	0.2254
5	16QAM	1	24	20.64	20.55	20.49	0.2109	0.2065	0.2037
5	16QAM	12	0	19.89	19.81	19.77	0.1774	0.1742	0.1726
5	16QAM	12	7	19.88	19.82	19.85	0.1770	0.1746	0.1758
5	16QAM	12	13	19.86	19.80	19.89	0.1762	0.1738	0.1774
5	16QAM	25	0	19.71	19.63	19.71	0.1702	0.1671	0.1702



LTE Band 12:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP	ERP	ERP
Channel				23060	23095	23130	23060	23095	23130
Frequency (MHz)				704	707.5	711	704	707.5	711
10	QPSK	1	0	22.79	22.69	22.98	0.1968	0.1923	0.2056
10	QPSK	1	25	22.85	23.12	22.88	0.1995	0.2123	0.2009
10	QPSK	1	49	22.75	22.75	22.57	0.1950	0.1950	0.1871
10	QPSK	25	0	21.53	21.76	21.55	0.1472	0.1552	0.1479
10	QPSK	25	12	21.65	21.69	21.63	0.1514	0.1528	0.1507
10	QPSK	25	25	21.66	21.50	21.59	0.1517	0.1462	0.1493
10	QPSK	50	0	21.57	21.53	21.62	0.1486	0.1472	0.1503
10	16QAM	1	0	21.39	21.39	21.53	0.1426	0.1426	0.1472
10	16QAM	1	25	21.73	21.60	21.70	0.1542	0.1496	0.1531
10	16QAM	1	49	21.17	21.34	21.38	0.1355	0.1409	0.1422
10	16QAM	25	0	20.59	20.58	20.59	0.1186	0.1183	0.1186
10	16QAM	25	12	20.62	20.53	20.79	0.1194	0.1169	0.1242
10	16QAM	25	25	20.59	20.57	20.47	0.1186	0.1180	0.1153
10	16QAM	50	0	20.62	20.55	20.49	0.1194	0.1175	0.1159
Channel				23035	23095	23155	23035	23095	23155
Frequency (MHz)				701.5	707.5	713.5	701.5	707.5	713.5
5	QPSK	1	0	22.74	22.89	22.80	0.1945	0.2014	0.1972
5	QPSK	1	12	23.23	23.12	23.22	0.2178	0.2123	0.2173
5	QPSK	1	24	22.63	22.63	22.64	0.1897	0.1897	0.1901
5	QPSK	12	0	21.56	21.80	21.60	0.1483	0.1567	0.1496
5	QPSK	12	7	21.53	21.69	21.64	0.1472	0.1528	0.1510
5	QPSK	12	13	21.46	21.49	21.75	0.1449	0.1459	0.1549
5	QPSK	25	0	21.49	21.61	21.55	0.1459	0.1500	0.1479
5	16QAM	1	0	21.43	21.64	21.56	0.1439	0.1510	0.1483
5	16QAM	1	12	21.72	21.97	21.62	0.1538	0.1629	0.1503
5	16QAM	1	24	21.40	21.28	21.94	0.1429	0.1390	0.1618
5	16QAM	12	0	20.43	20.73	21.43	0.1143	0.1225	0.1439
5	16QAM	12	7	20.74	20.60	20.78	0.1227	0.1189	0.1239
5	16QAM	12	13	20.55	20.56	20.70	0.1175	0.1178	0.1216
5	16QAM	25	0	20.44	20.81	20.52	0.1146	0.1247	0.1167
Channel				23025	23095	23165	23025	23095	23165
Frequency (MHz)				700.5	707.5	714.5	700.5	707.5	714.5
3	QPSK	1	0	22.74	22.80	22.86	0.1945	0.1972	0.2000
3	QPSK	1	8	22.76	22.81	22.59	0.1954	0.1977	0.1879
3	QPSK	1	14	22.59	22.72	22.76	0.1879	0.1936	0.1954
3	QPSK	8	0	21.74	21.82	21.96	0.1545	0.1574	0.1626
3	QPSK	8	4	21.61	21.71	21.83	0.1500	0.1535	0.1578
3	QPSK	8	7	21.69	21.70	21.63	0.1528	0.1531	0.1507
3	QPSK	15	0	21.47	21.70	21.64	0.1452	0.1531	0.1510
3	16QAM	1	0	21.52	21.54	21.39	0.1469	0.1476	0.1426
3	16QAM	1	8	21.39	21.53	21.61	0.1426	0.1472	0.1500



3	16QAM	1	14	21.18	21.26	21.34	0.1358	0.1384	0.1409
3	16QAM	8	0	20.66	20.75	20.72	0.1205	0.1230	0.1222
3	16QAM	8	4	20.57	20.70	20.63	0.1180	0.1216	0.1197
3	16QAM	8	7	20.71	20.80	20.71	0.1219	0.1245	0.1219
3	16QAM	15	0	20.59	20.66	20.71	0.1186	0.1205	0.1219
Channel				23017	23095	23173	23017	23095	23173
Frequency (MHz)				699.7	707.5	715.3	699.7	707.5	715.3
1.4	QPSK	1	0	22.57	22.75	22.53	0.1871	0.1950	0.1854
1.4	QPSK	1	3	22.61	22.59	22.63	0.1888	0.1879	0.1897
1.4	QPSK	1	5	2.49	22.58	22.73	0.0018	0.1875	0.1941
1.4	QPSK	3	0	22.71	22.63	22.45	0.1932	0.1897	0.1820
1.4	QPSK	3	1	22.45	22.59	22.65	0.1820	0.1879	0.1905
1.4	QPSK	3	3	22.45	22.59	22.63	0.1820	0.1879	0.1897
1.4	QPSK	6	0	21.57	21.64	21.71	0.1486	0.1510	0.1535
1.4	16QAM	1	0	21.43	21.50	21.61	0.1439	0.1462	0.1500
1.4	16QAM	1	3	21.74	21.83	21.86	0.1545	0.1578	0.1589
1.4	16QAM	1	5	21.43	21.55	21.64	0.1439	0.1479	0.1510
1.4	16QAM	3	0	21.72	21.78	21.94	0.1538	0.1560	0.1618
1.4	16QAM	3	1	21.79	21.88	21.93	0.1563	0.1596	0.1614
1.4	16QAM	3	3	21.80	21.89	21.94	0.1567	0.1600	0.1618
1.4	16QAM	6	0	20.63	20.72	21.69	0.1197	0.1222	0.1528

LTE Band 13:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP	ERP	ERP
Channel				23230			23230		
Frequency (MHz)				782			782		
10	QPSK	1	0		22.76			0.2193	
10	QPSK	1	25		22.70			0.2163	
10	QPSK	1	49		22.82			0.2223	
10	QPSK	25	0		21.58			0.1671	
10	QPSK	25	12		21.56			0.1663	
10	QPSK	25	25		21.59			0.1675	
10	QPSK	50	0		21.50			0.1641	
10	16QAM	1	0		21.89			0.1795	
10	16QAM	1	25		21.56			0.1663	
10	16QAM	1	49		21.36			0.1589	
10	16QAM	25	0		20.68			0.1358	
10	16QAM	25	12		20.55			0.1318	
10	16QAM	25	25		20.61			0.1337	
10	16QAM	50	0		20.65			0.1349	
Channel				23205	23230	23255	23205	23230	23255
Frequency (MHz)				779.5	782	784.5	779.5	782	784.5
5	QPSK	1	0	22.52	22.82	22.61	0.2075	0.2223	0.2118
5	QPSK	1	12	23.03	22.97	22.67	0.2333	0.2301	0.2148
5	QPSK	1	24	22.59	22.57	22.60	0.2109	0.2099	0.2113



5	QPSK	12	0	21.50	21.68	21.50	0.1641	0.1710	0.1641
5	QPSK	12	7	21.57	21.59	21.58	0.1667	0.1675	0.1671
5	QPSK	12	13	21.55	21.55	21.54	0.1660	0.1660	0.1656
5	QPSK	25	0	21.64	21.51	21.52	0.1694	0.1644	0.1648
5	16QAM	1	0	21.85	21.37	21.64	0.1778	0.1592	0.1694
5	16QAM	1	12	21.83	21.26	22.15	0.1770	0.1552	0.1905
5	16QAM	1	24	21.35	21.37	21.45	0.1585	0.1592	0.1622
5	16QAM	12	0	20.57	20.76	20.57	0.1324	0.1384	0.1324
5	16QAM	12	7	20.65	20.78	20.53	0.1349	0.1390	0.1312
5	16QAM	12	13	20.58	20.64	20.52	0.1327	0.1346	0.1309
5	16QAM	25	0	20.47	20.70	20.57	0.1294	0.1365	0.1324

LTE Band 17:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP (W)		
Channel				23780	23790	23800	L	M	H
Frequency (MHz)				709	710	711			
10	QPSK	1	0	22.86	22.82	22.78	0.2000	0.1982	0.1963
10	QPSK	1	25	22.80	22.72	22.79	0.1972	0.1936	0.1968
10	QPSK	1	49	22.71	22.65	22.71	0.1932	0.1905	0.1932
10	QPSK	25	0	21.69	21.66	21.70	0.1528	0.1517	0.1531
10	QPSK	25	12	21.70	21.66	21.69	0.1531	0.1517	0.1528
10	QPSK	25	25	21.69	21.62	21.54	0.1528	0.1503	0.1476
10	QPSK	50	0	21.60	21.53	21.60	0.1496	0.1472	0.1496
10	16QAM	1	0	21.55	21.45	21.53	0.1479	0.1445	0.1472
10	16QAM	1	25	21.71	21.67	21.74	0.1535	0.1521	0.1545
10	16QAM	1	49	21.46	21.40	21.47	0.1449	0.1429	0.1452
10	16QAM	25	0	20.81	20.70	20.79	0.1247	0.1216	0.1242
10	16QAM	25	12	20.72	20.61	20.70	0.1222	0.1191	0.1216
10	16QAM	25	25	20.55	20.47	20.53	0.1175	0.1153	0.1169
10	16QAM	50	0	20.59	20.52	20.49	0.1186	0.1167	0.1159
Channel				23755	23790	23825	L	M	H
Frequency (MHz)				706.5	710	713.5			
5	QPSK	1	0	22.76	22.74	22.61	0.1954	0.1945	0.1888
5	QPSK	1	12	22.83	22.97	22.81	0.1986	0.2051	0.1977
5	QPSK	1	24	22.68	22.54	22.70	0.1919	0.1858	0.1928
5	QPSK	12	0	21.74	21.84	21.62	0.1545	0.1581	0.1503
5	QPSK	12	7	21.83	21.78	21.57	0.1578	0.1560	0.1486
5	QPSK	12	13	21.69	21.75	21.58	0.1528	0.1549	0.1489
5	QPSK	25	0	21.92	21.80	21.62	0.1611	0.1567	0.1503
5	16QAM	1	0	21.56	21.50	21.43	0.1483	0.1462	0.1439
5	16QAM	1	12	21.53	21.49	21.36	0.1472	0.1459	0.1416
5	16QAM	1	24	21.11	21.33	21.52	0.1337	0.1406	0.1469
5	16QAM	12	0	20.50	20.44	20.67	0.1161	0.1146	0.1208



5	16QAM	12	7	20.59	20.55	20.70	0.1186	0.1175	0.1216
5	16QAM	12	13	20.53	20.51	20.53	0.1169	0.1164	0.1169
5	16QAM	25	0	20.63	20.56	20.77	0.1197	0.1178	0.1236

LTE Band 41:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP	EIRP	EIRP
Channel				39750	40620	41490	39750	40620	41490
Frequency (MHz)				2506	2593	2680	2506	2593	2680
20	QPSK	1	0	21.64	21.63	21.21	0.4831	0.4819	0.4375
20	QPSK	1	49	22.13	21.85	21.13	0.5408	0.5070	0.4295
20	QPSK	1	99	21.81	21.87	20.77	0.5023	0.5093	0.3954
20	QPSK	50	0	20.83	20.67	20.64	0.4009	0.3864	0.3837
20	QPSK	50	24	20.91	20.79	20.22	0.4083	0.3972	0.3483
20	QPSK	50	50	20.87	20.86	20.02	0.4046	0.4036	0.3327
20	QPSK	100	0	20.97	20.90	20.46	0.4140	0.4074	0.3681
20	16QAM	1	0	20.56	20.29	20.25	0.3767	0.3540	0.3508
20	16QAM	1	49	20.58	20.46	20.01	0.3784	0.3681	0.3319
20	16QAM	1	99	20.31	20.82	19.62	0.3556	0.3999	0.3034
20	16QAM	50	0	19.94	19.83	19.26	0.3266	0.3184	0.2793
20	16QAM	50	24	19.95	19.83	19.12	0.3273	0.3184	0.2704
20	16QAM	50	50	20.06	19.84	19.28	0.3357	0.3192	0.2805
20	16QAM	100	0	19.96	19.74	19.47	0.3281	0.3119	0.2931
Channel				39725	40620	41515	39725	40620	41515
Frequency (MHz)				2503.5	2593	2682.5	2503.5	2593	2682.5
15	QPSK	1	0	22.05	21.68	21.38	0.5309	0.4875	0.4550
15	QPSK	1	37	22.01	21.74	21.11	0.5260	0.4943	0.4276
15	QPSK	1	74	22.16	21.75	20.80	0.5445	0.4955	0.3981
15	QPSK	36	0	20.72	20.79	20.35	0.3908	0.3972	0.3589
15	QPSK	36	20	20.89	20.74	20.18	0.4064	0.3926	0.3451
15	QPSK	36	39	20.98	20.84	20.31	0.4150	0.4018	0.3556
15	QPSK	75	0	20.87	20.78	20.38	0.4046	0.3963	0.3614
15	16QAM	1	0	20.86	20.82	20.02	0.4036	0.3999	0.3327
15	16QAM	1	37	20.87	20.75	19.75	0.4046	0.3936	0.3126
15	16QAM	1	74	20.98	20.89	19.62	0.4150	0.4064	0.3034
15	16QAM	36	0	19.88	19.76	19.46	0.3221	0.3133	0.2924
15	16QAM	36	20	19.93	19.70	19.08	0.3258	0.3090	0.2679
15	16QAM	36	39	19.75	19.70	18.95	0.3126	0.3090	0.2600
15	16QAM	75	0	19.65	19.94	19.28	0.3055	0.3266	0.2805
Channel				39700	40620	41540	39700	40620	41540
Frequency (MHz)				2501	2593	2685	2501	2593	2685
10	QPSK	1	0	21.79	21.98	21.35	0.5000	0.5224	0.4519
10	QPSK	1	25	21.92	21.95	21.22	0.5152	0.5188	0.4385
10	QPSK	1	49	22.28	21.92	21.03	0.5598	0.5152	0.4198
10	QPSK	25	0	20.85	20.83	20.25	0.4027	0.4009	0.3508
10	QPSK	25	12	20.94	20.76	20.18	0.4111	0.3945	0.3451



10	QPSK	25	25	20.99	20.78	20.09	0.4159	0.3963	0.3381
10	QPSK	50	0	20.70	20.74	20.33	0.3890	0.3926	0.3573
10	16QAM	1	0	20.44	20.82	20.16	0.3664	0.3999	0.3436
10	16QAM	1	25	20.48	20.90	19.90	0.3698	0.4074	0.3236
10	16QAM	1	49	20.83	20.94	19.74	0.4009	0.4111	0.3119
10	16QAM	25	0	20.21	19.79	19.42	0.3475	0.3155	0.2897
10	16QAM	25	12	20.01	20.03	19.41	0.3319	0.3334	0.2891
10	16QAM	25	25	20.32	20.03	19.16	0.3565	0.3334	0.2729
10	16QAM	50	0	19.78	19.88	19.04	0.3148	0.3221	0.2655
Channel				39675	40620	41565	39675	40620	41565
Frequency (MHz)				2498.5	2593	2687.5	2498.5	2593	2687.5
5	QPSK	1	0	21.64	21.26	21.04	0.4831	0.4426	0.4207
5	QPSK	1	12	22.19	21.84	21.45	0.5483	0.5058	0.4624
5	QPSK	1	24	22.21	21.85	21.31	0.5508	0.5070	0.4477
5	QPSK	12	0	20.65	20.82	20.09	0.3846	0.3999	0.3381
5	QPSK	12	7	20.97	20.81	20.00	0.4140	0.3990	0.3311
5	QPSK	12	13	20.82	20.83	19.98	0.3999	0.4009	0.3296
5	QPSK	25	0	20.96	20.82	20.17	0.4130	0.3999	0.3443
5	16QAM	1	0	20.44	20.51	19.94	0.3664	0.3724	0.3266
5	16QAM	1	12	20.59	20.64	19.90	0.3793	0.3837	0.3236
5	16QAM	1	24	20.49	20.55	19.75	0.3707	0.3758	0.3126
5	16QAM	12	0	19.97	20.05	18.93	0.3289	0.3350	0.2588
5	16QAM	12	7	19.90	19.88	19.07	0.3236	0.3221	0.2673
5	16QAM	12	13	19.98	20.01	19.02	0.3296	0.3319	0.2642
5	16QAM	25	0	20.29	20.34	19.15	0.3540	0.3581	0.2723

LTE Band 71:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP	ERP	ERP
Channel				133222	133322	133372	133222	133322	133372
Frequency (MHz)				673	683	688	673	683	688
20	QPSK	1	0	22.45	22.58	22.62	0.1820	0.1875	0.1892
20	QPSK	1	49	22.78	22.90	22.65	0.1963	0.2018	0.1905
20	QPSK	1	99	22.42	22.30	22.41	0.1807	0.1758	0.1803
20	QPSK	50	0	21.55	21.56	22.41	0.1479	0.1483	0.1803
20	QPSK	50	24	21.61	21.56	21.49	0.1500	0.1483	0.1459
20	QPSK	50	50	21.41	21.44	21.33	0.1432	0.1442	0.1406
20	QPSK	100	0	21.52	21.47	21.53	0.1469	0.1452	0.1472
20	16QAM	1	0	21.34	21.15	21.25	0.1409	0.1349	0.1380
20	16QAM	1	49	21.33	21.25	21.31	0.1406	0.1380	0.1400
20	16QAM	1	99	21.21	21.14	21.25	0.1368	0.1346	0.1380
20	16QAM	50	0	20.44	20.46	20.55	0.1146	0.1151	0.1175
20	16QAM	50	24	20.54	20.58	20.63	0.1172	0.1183	0.1197
20	16QAM	50	50	20.41	20.33	20.42	0.1138	0.1117	0.1140
20	16QAM	100	0	20.44	20.49	20.55	0.1146	0.1159	0.1175
Channel				133197	133297	133397	133197	133297	133397
Frequency (MHz)				670.5	680.5	690.5	670.5	680.5	690.5



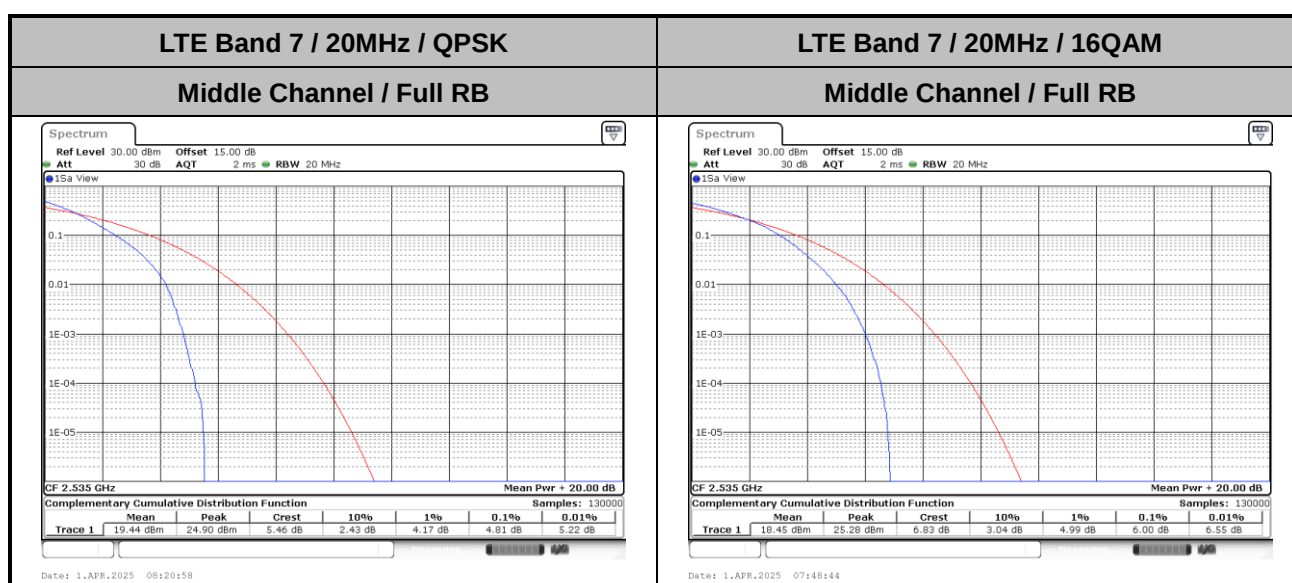
15	QPSK	1	0	22.76	22.51	22.62	0.1954	0.1845	0.1892
15	QPSK	1	37	22.79	22.99	22.57	0.1968	0.2061	0.1871
15	QPSK	1	74	22.42	22.49	22.43	0.1807	0.1837	0.1811
15	QPSK	36	0	21.54	21.60	21.50	0.1476	0.1496	0.1462
15	QPSK	36	20	21.52	21.62	21.54	0.1469	0.1503	0.1476
15	QPSK	36	39	21.43	21.50	21.53	0.1439	0.1462	0.1472
15	QPSK	75	0	21.47	21.47	21.55	0.1452	0.1452	0.1479
15	16QAM	1	0	22.02	21.21	21.15	0.1648	0.1368	0.1349
15	16QAM	1	37	21.45	22.15	21.28	0.1445	0.1698	0.1390
15	16QAM	1	74	20.84	21.26	21.03	0.1256	0.1384	0.1312
15	16QAM	36	0	20.61	20.66	20.36	0.1191	0.1205	0.1125
15	16QAM	36	20	20.61	20.65	20.50	0.1191	0.1202	0.1161
15	16QAM	36	39	20.40	20.53	20.47	0.1135	0.1169	0.1153
15	16QAM	75	0	20.63	20.50	20.58	0.1197	0.1161	0.1183
Channel				133172	133272	133422	133172	133272	133422
Frequency (MHz)				668	678	693	668	678	693
10	QPSK	1	0	22.90	22.63	22.52	0.2018	0.1897	0.1849
10	QPSK	1	25	22.63	22.97	20.59	0.1897	0.2051	0.1186
10	QPSK	1	49	22.57	22.60	22.46	0.1871	0.1884	0.1824
10	QPSK	25	0	21.41	21.43	21.46	0.1432	0.1439	0.1449
10	QPSK	25	12	21.54	21.62	21.54	0.1476	0.1503	0.1476
10	QPSK	25	25	21.59	21.66	21.53	0.1493	0.1517	0.1472
10	QPSK	50	0	21.66	21.61	21.72	0.1517	0.1500	0.1538
10	16QAM	1	0	21.18	21.32	21.29	0.1358	0.1403	0.1393
10	16QAM	1	25	21.63	21.56	21.48	0.1507	0.1483	0.1455
10	16QAM	1	49	21.31	21.27	21.34	0.1400	0.1387	0.1409
10	16QAM	25	0	20.32	20.39	20.44	0.1114	0.1132	0.1146
10	16QAM	25	12	21.76	21.90	21.86	0.1552	0.1603	0.1589
10	16QAM	25	25	20.39	20.49	20.54	0.1132	0.1159	0.1172
10	16QAM	50	0	20.71	20.68	20.64	0.1219	0.1211	0.1199
Channel				133147	133247	133447	133147	133247	133447
Frequency (MHz)				665.5	675.5	695.5	665.5	675.5	695.5
5	QPSK	1	0	22.64	22.59	22.51	0.1901	0.1879	0.1845
5	QPSK	1	12	22.95	23.02	22.89	0.2042	0.2075	0.2014
5	QPSK	1	24	22.56	22.64	22.51	0.1866	0.1901	0.1845
5	QPSK	12	0	21.56	21.44	21.52	0.1483	0.1442	0.1469
5	QPSK	12	7	21.48	21.60	21.53	0.1455	0.1496	0.1472
5	QPSK	12	13	21.55	21.60	21.48	0.1479	0.1496	0.1455
5	QPSK	25	0	21.62	21.59	21.63	0.1503	0.1493	0.1507
5	16QAM	1	0	21.09	21.12	21.02	0.1330	0.1340	0.1309
5	16QAM	1	12	21.43	21.49	21.39	0.1439	0.1459	0.1426
5	16QAM	1	24	21.25	21.34	21.30	0.1380	0.1409	0.1396
5	16QAM	12	0	20.39	20.46	20.44	0.1132	0.1151	0.1146
5	16QAM	12	7	20.24	20.36	20.31	0.1094	0.1125	0.1112
5	16QAM	12	13	20.39	20.47	20.52	0.1132	0.1153	0.1167
5	16QAM	25	0	20.53	20.46	20.51	0.1169	0.1151	0.1164



LTE Band 7

Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.81	6.00	-	PASS





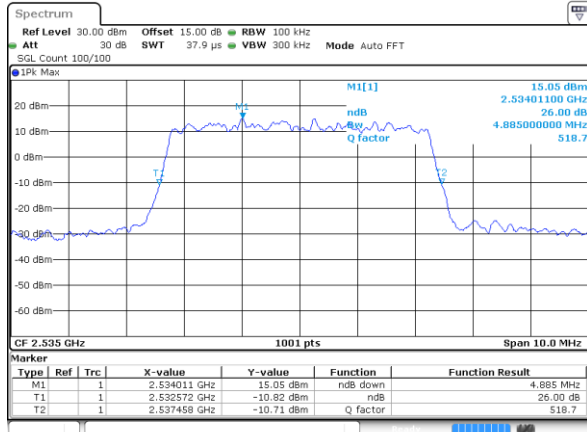
26dB Bandwidth

Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.89	4.98	9.67	10.05	14.42	14.45	19.14	18.90



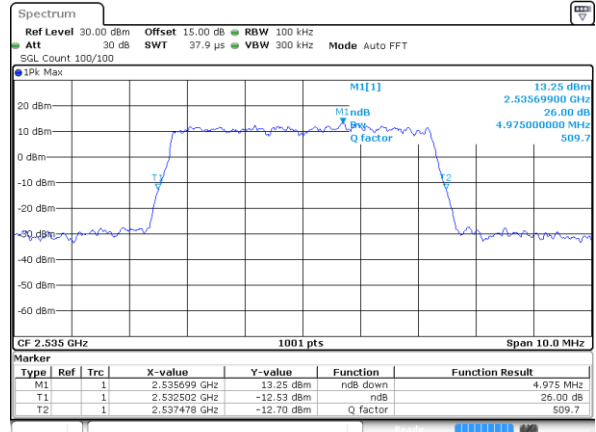
LTE Band 7

Middle Channel / 5MHz / QPSK



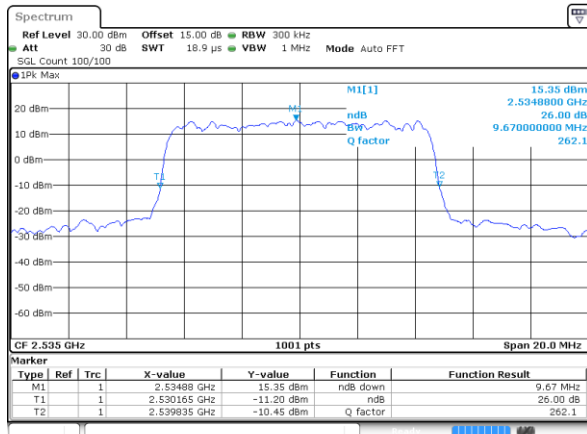
Date: 27 MAR 2025 13:39:39

Middle Channel / 5MHz / 16QAM



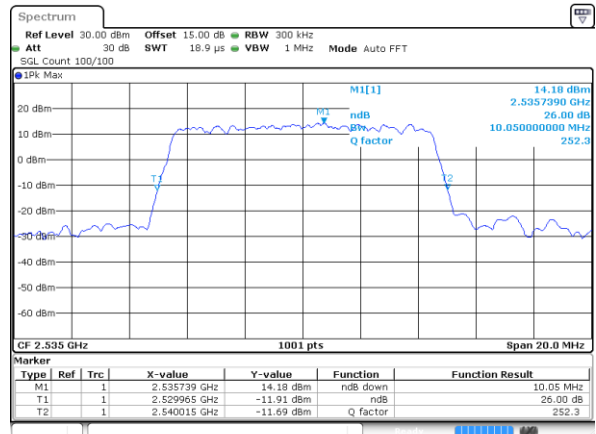
Date: 27 MAR 2025 13:40:26

Middle Channel / 10MHz / QPSK



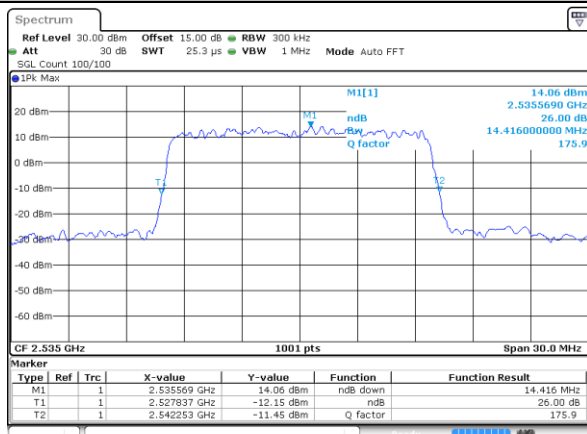
Date: 27 MAR 2025 13:50:11

Middle Channel / 10MHz / 16QAM



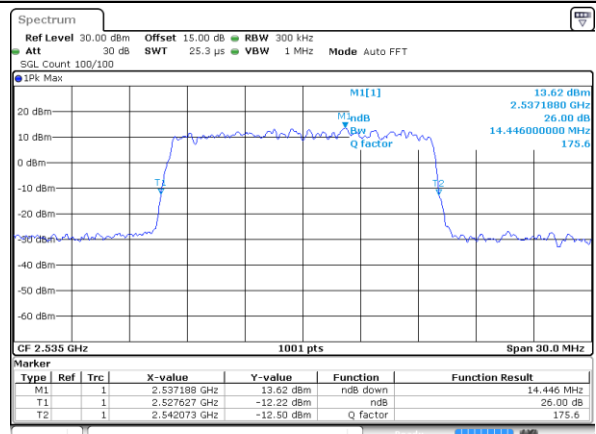
Date: 27 MAR 2025 13:50:50

Middle Channel / 15MHz / QPSK



Date: 27 MAR 2025 13:59:47

Middle Channel / 15MHz / 16QAM

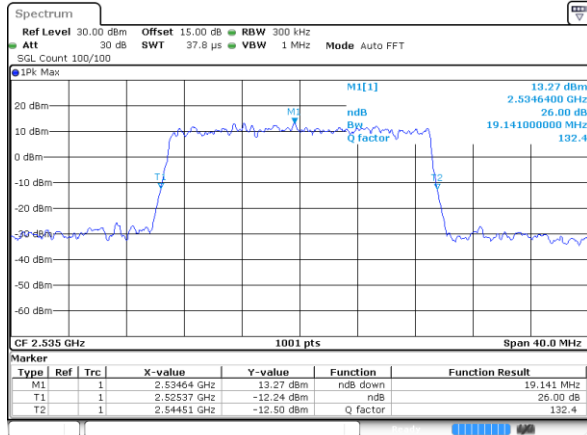


Date: 27 MAR 2025 14:00:26



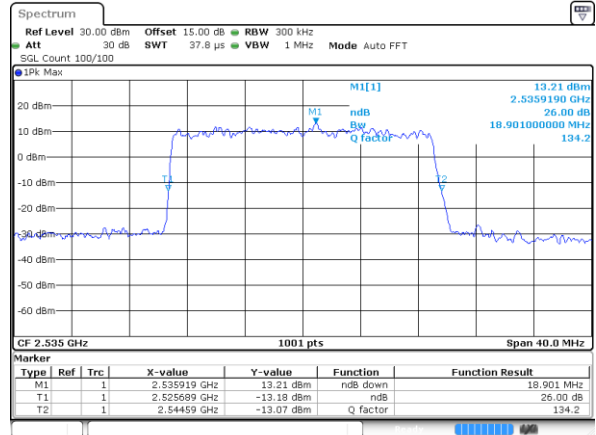
LTE Band 7

Middle Channel / 20MHz / QPSK



Date: 27 MAR 2025 14:10:37

Middle Channel / 20MHz / 16QAM



Date: 27 MAR 2025 14:11:19



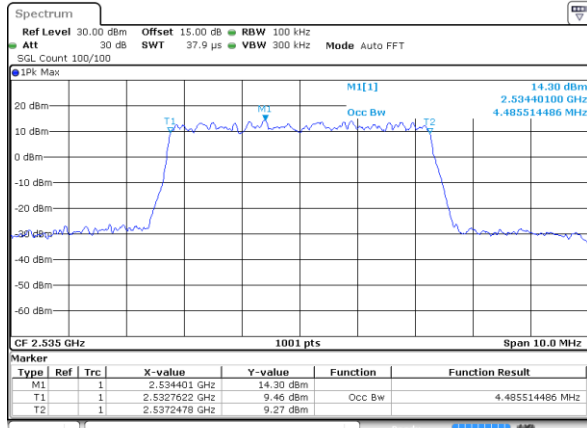
Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.49	4.49	9.01	8.95	13.43	13.43	17.90	17.82



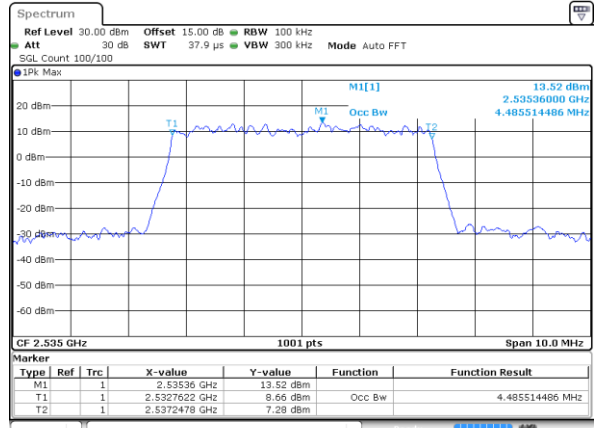
LTE Band 7

Middle Channel / 5MHz / QPSK



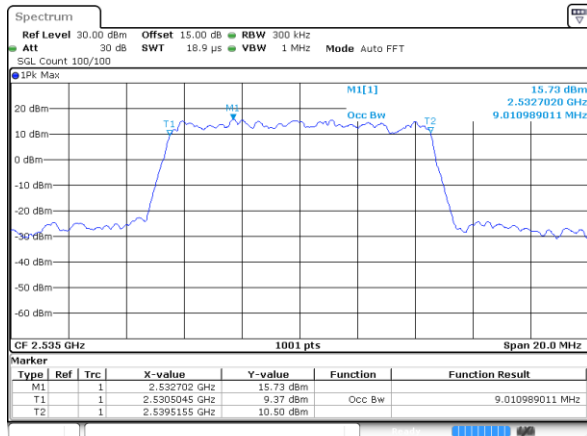
Date: 27 MAR 2025 13:39:25

Middle Channel / 5MHz / 16QAM



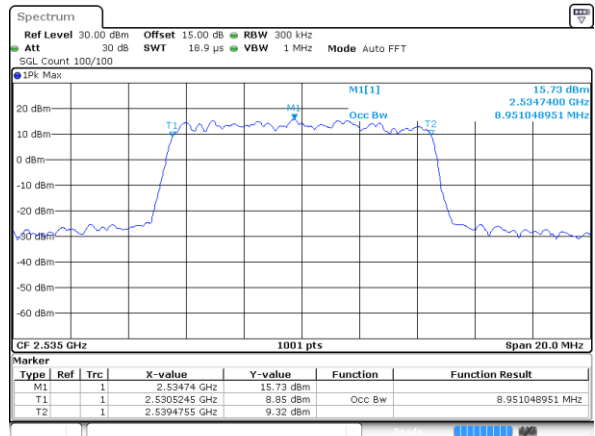
Date: 27 MAR 2025 13:40:08

Middle Channel / 10MHz / QPSK



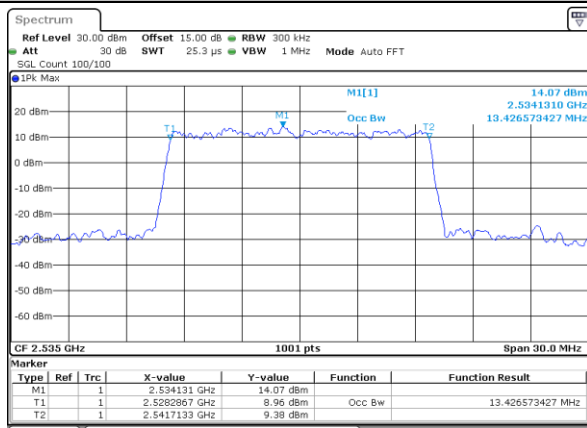
Date: 27 MAR 2025 13:49:57

Middle Channel / 10MHz / 16QAM



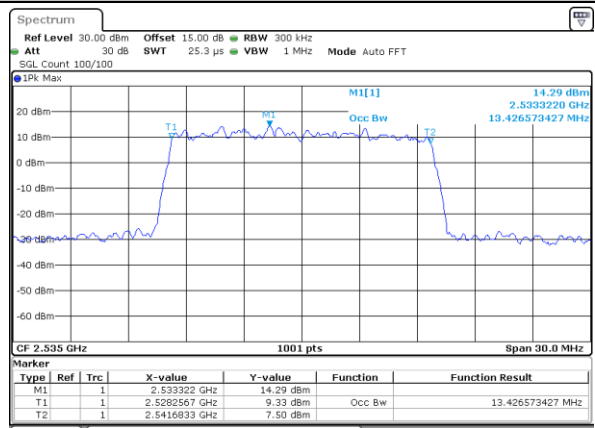
Date: 27 MAR 2025 13:50:37

Middle Channel / 15MHz / QPSK



Date: 27 MAR 2025 13:59:33

Middle Channel / 15MHz / 16QAM

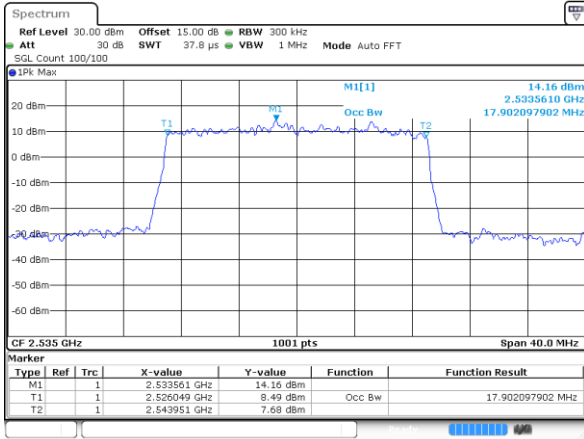


Date: 27 MAR 2025 14:00:12



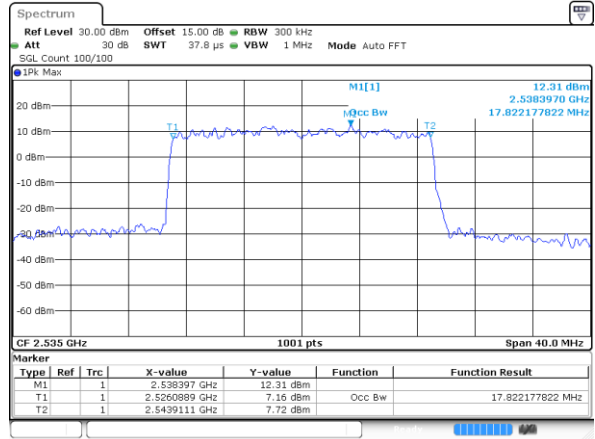
LTE Band 7

Middle Channel / 20MHz / QPSK



Date: 27 MAR 2025 14:10:23

Middle Channel / 20MHz / 16QAM



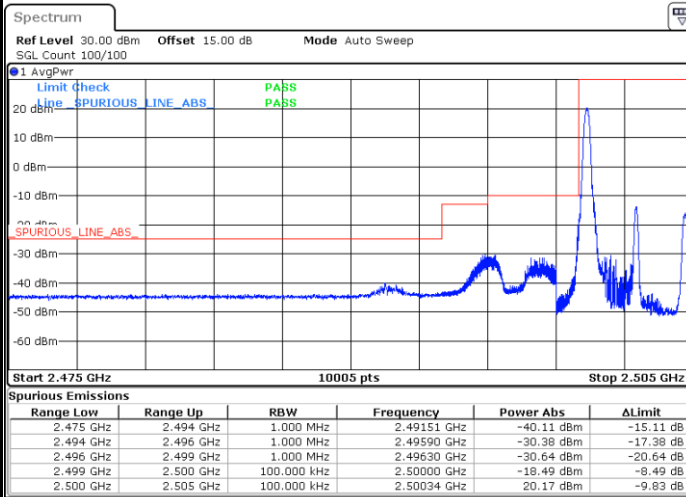
Date: 27 MAR 2025 14:11:05



Conducted Band Edge

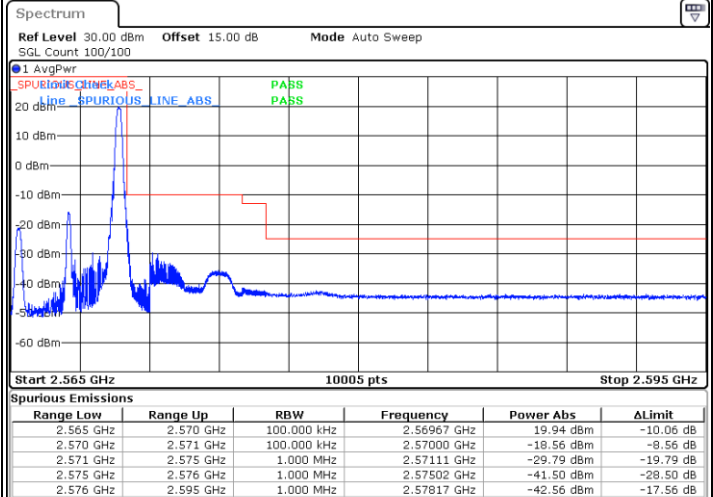
LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB



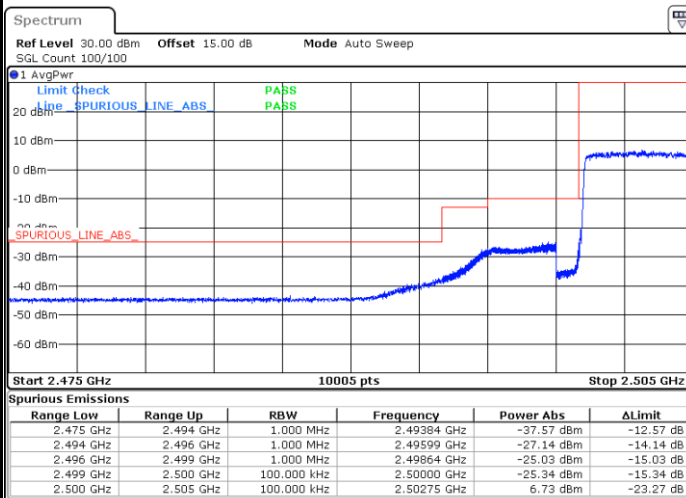
Date: 27 MAR 2025 13:36:04

Highest Band Edge / 1 RB



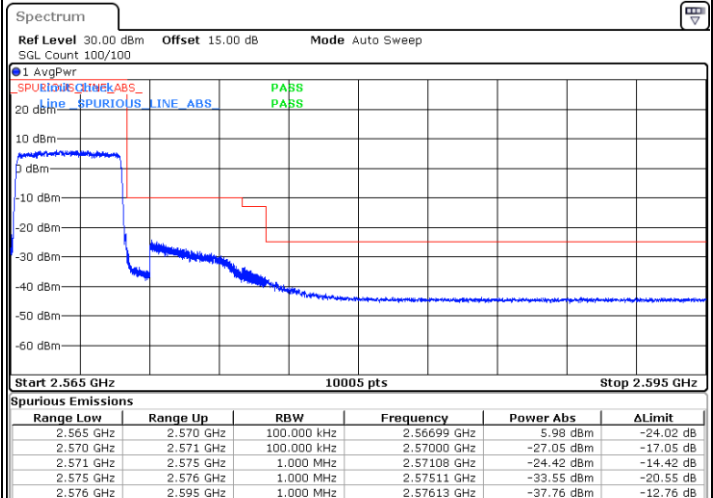
Date: 27 MAR 2025 13:40:58

Lowest Band Edge / Full RB



Date: 27 MAR 2025 13:37:50

Highest Band Edge / Full RB

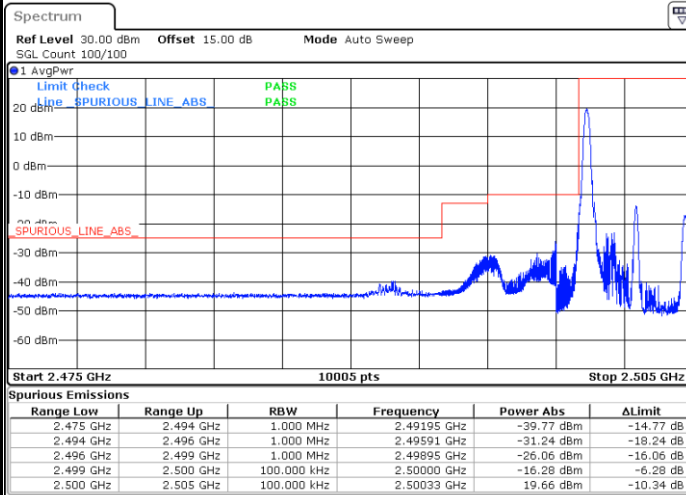


Date: 27 MAR 2025 13:42:41



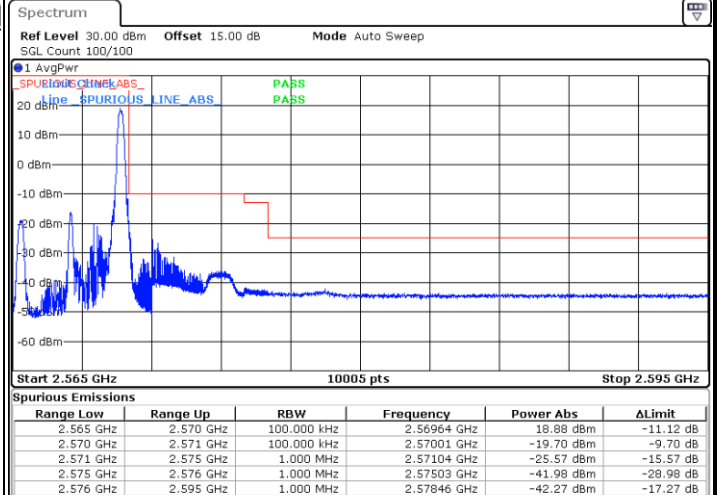
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



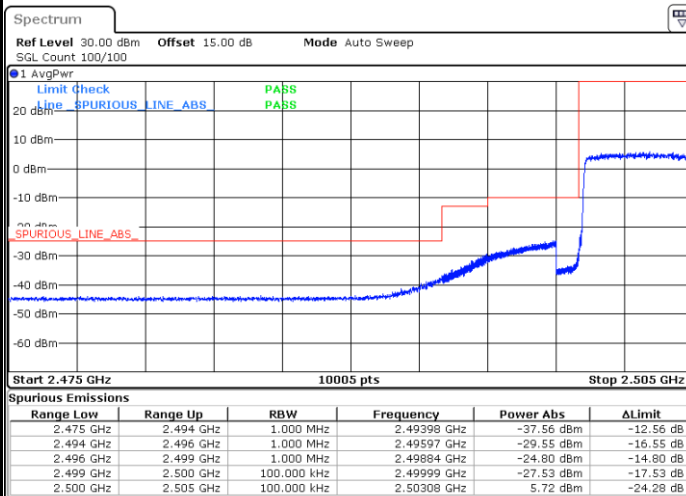
Date: 27 MAR 2025 13:36:40

Highest Band Edge / 1 RB



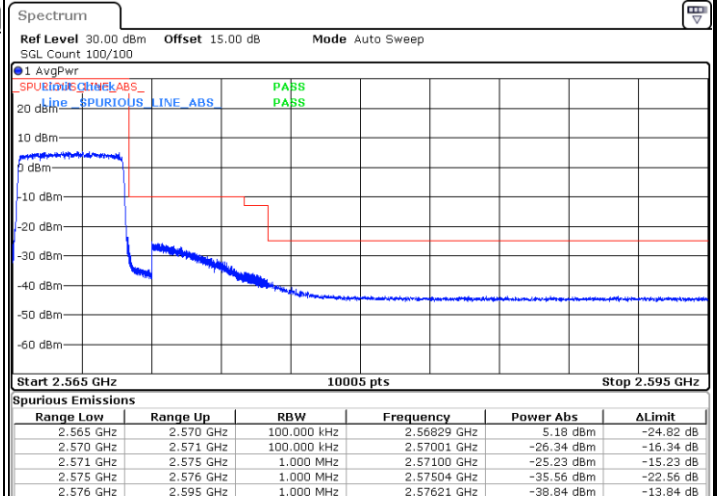
Date: 27 MAR 2025 13:41:32

Lowest Band Edge / Full RB



Date: 27 MAR 2025 13:38:26

Highest Band Edge / Full RB

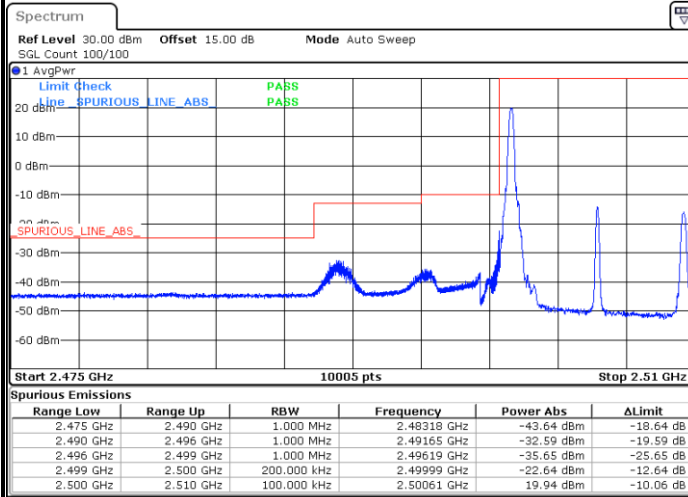


Date: 27 MAR 2025 13:43:14



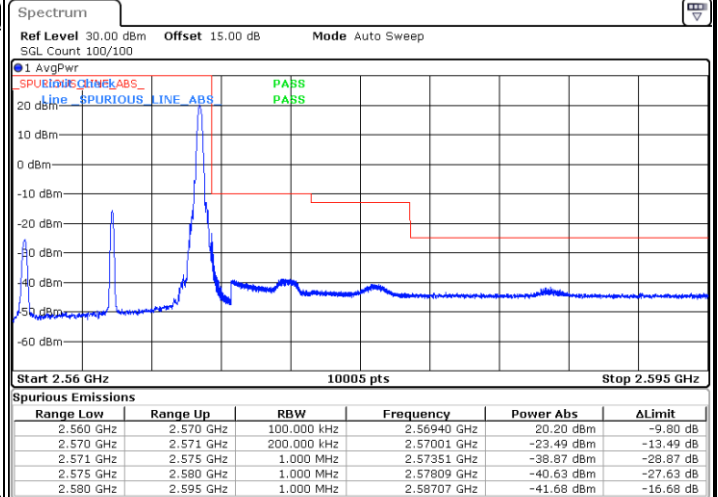
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



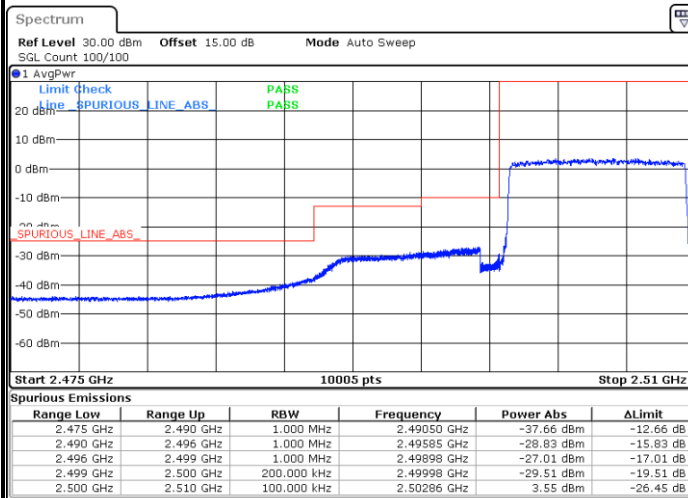
Date: 27 MAR 2025 13:46:44

Highest Band Edge / 1 RB



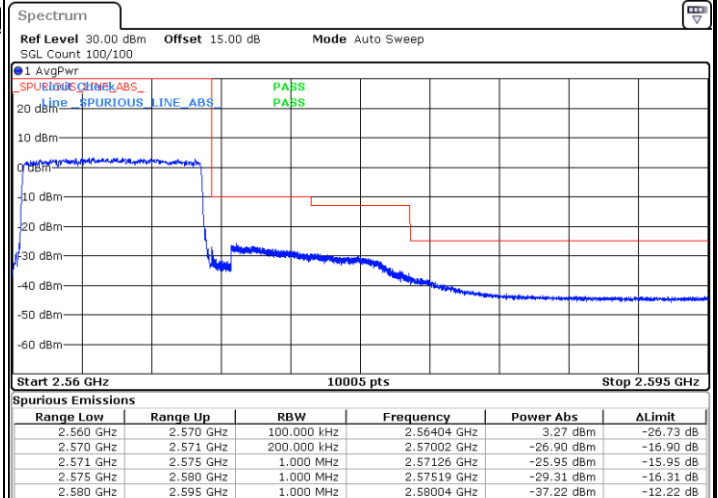
Date: 27 MAR 2025 13:51:23

Lowest Band Edge / Full RB



Date: 27 MAR 2025 13:48:25

Highest Band Edge / Full RB

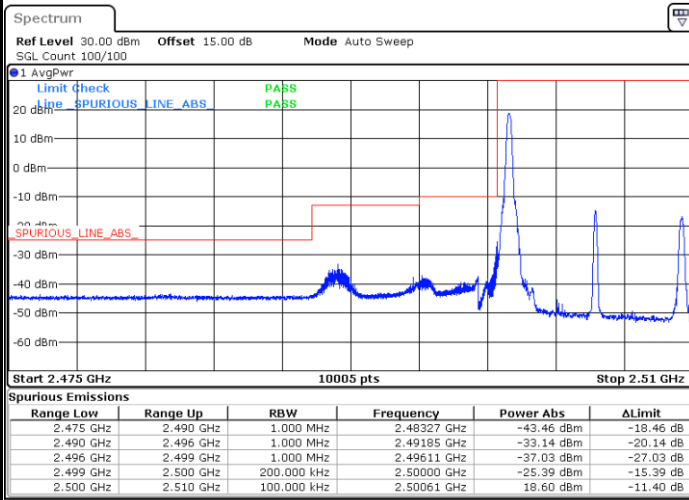


Date: 27 MAR 2025 13:53:03

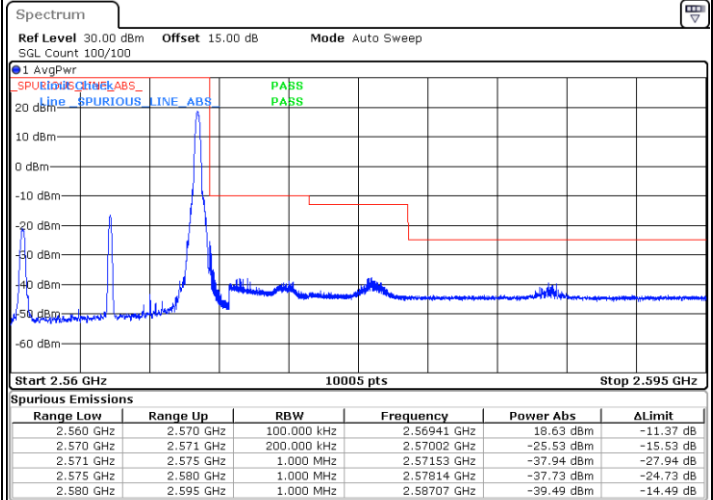


LTE Band 7 / 10MHz / 16QAM

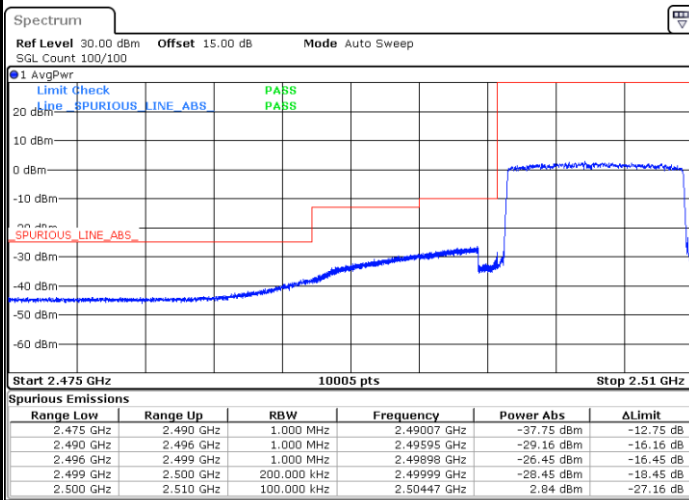
Lowest Band Edge / 1RB



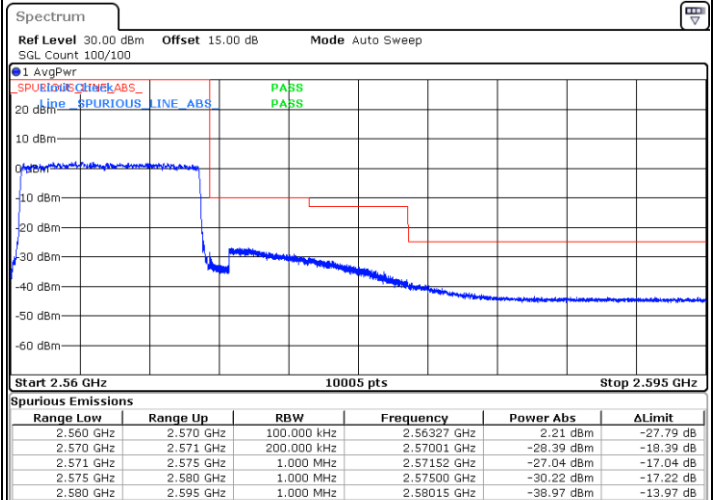
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



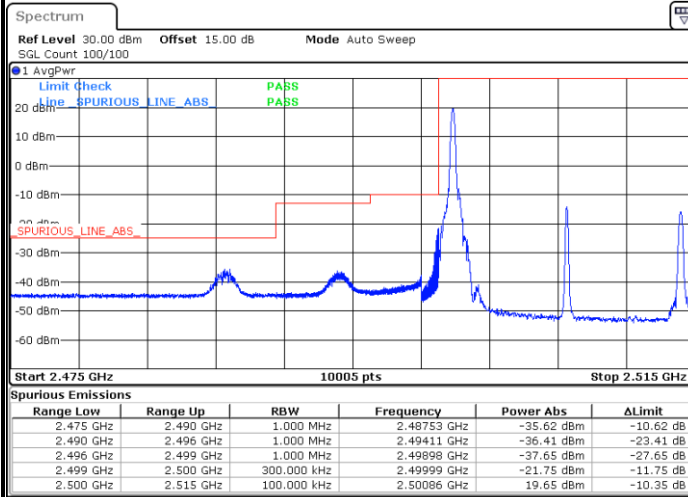
Highest Band Edge / Full RB





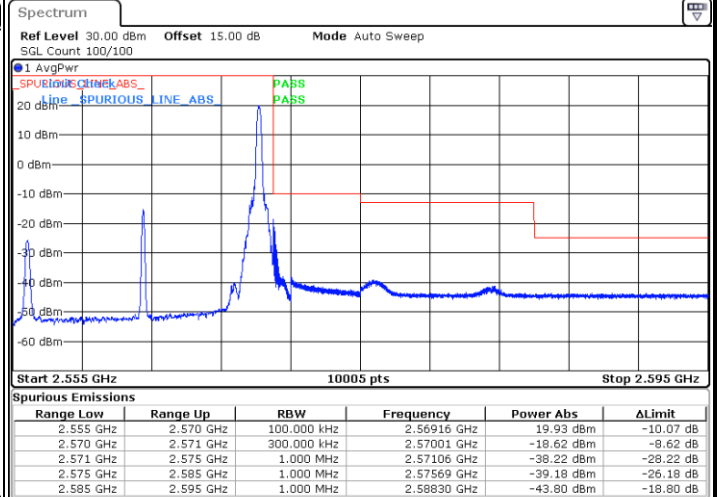
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



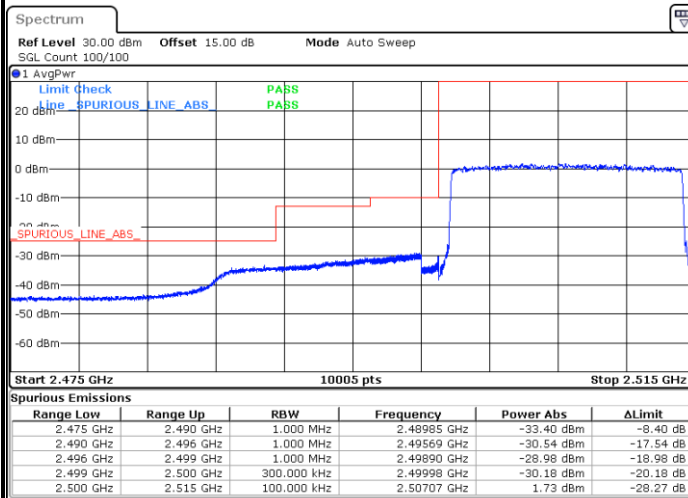
Date: 27 MAR 2025 13:56:20

Highest Band Edge / 1 RB



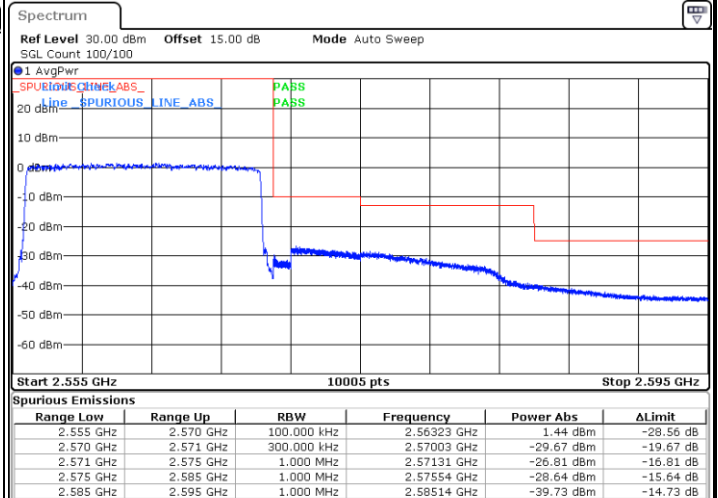
Date: 27 MAR 2025 14:00:59

Lowest Band Edge / Full RB



Date: 27 MAR 2025 13:58:00

Highest Band Edge / Full RB

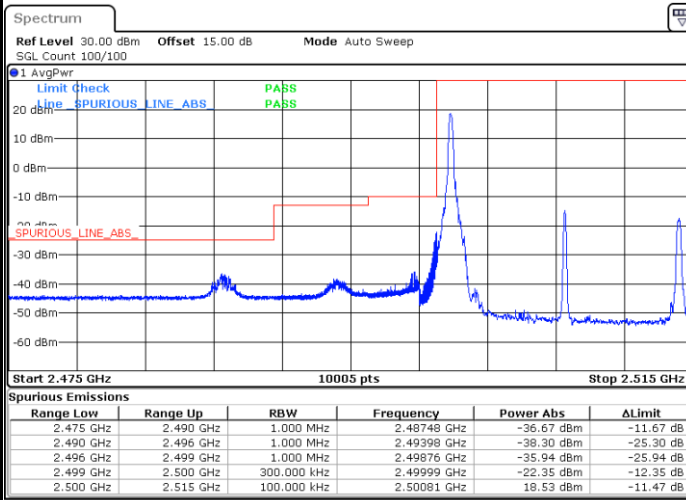


Date: 27 MAR 2025 14:02:39

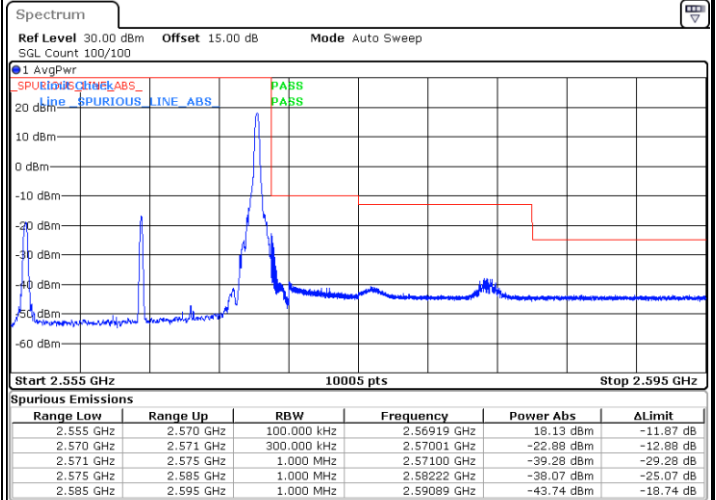


LTE Band 7 / 15MHz / 16QAM

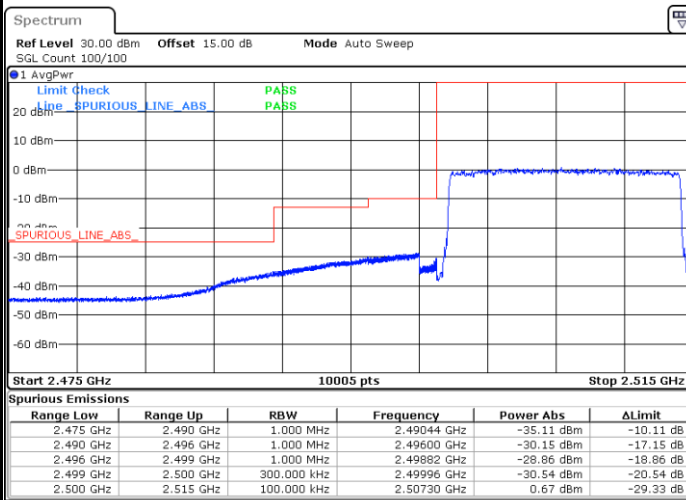
Lowest Band Edge / 1RB



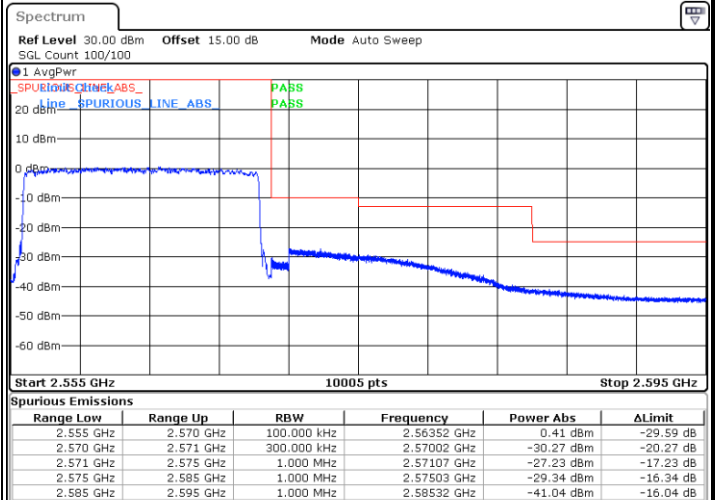
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



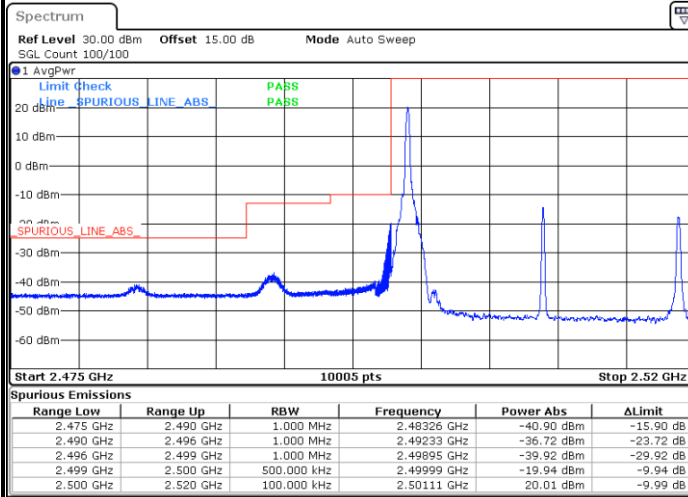
Highest Band Edge / Full RB





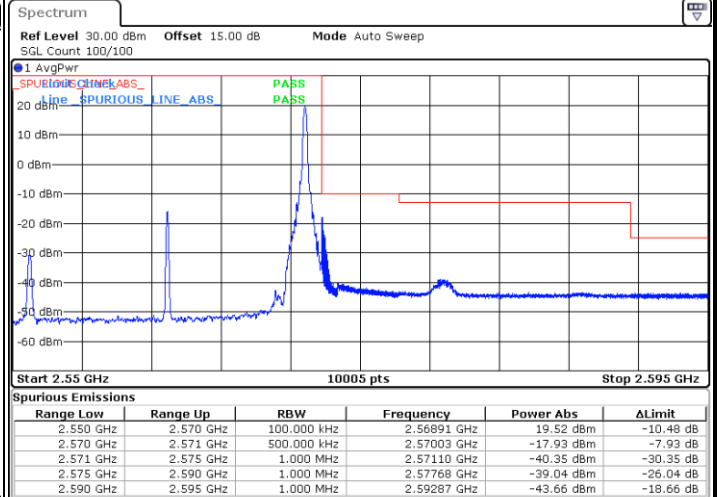
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



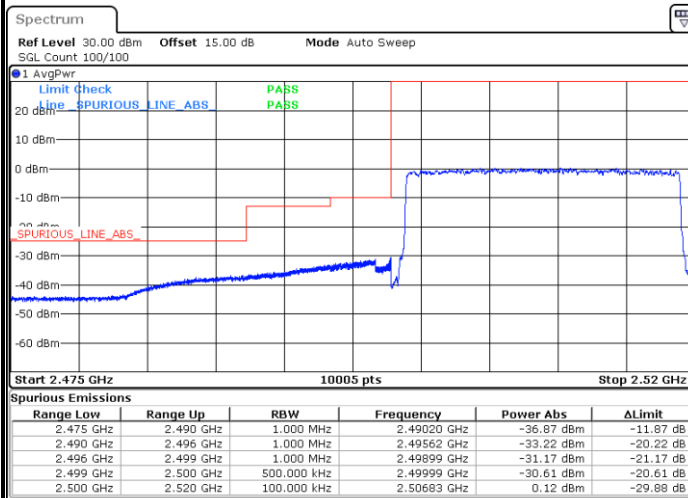
Date: 27 MAR 2025 14:07:06

Highest Band Edge / 1 RB



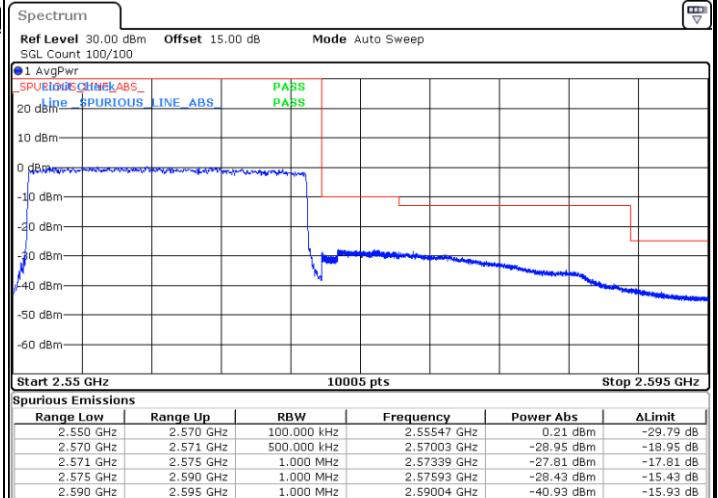
Date: 27 MAR 2025 14:11:55

Lowest Band Edge / Full RB



Date: 27 MAR 2025 14:08:47

Highest Band Edge / Full RB

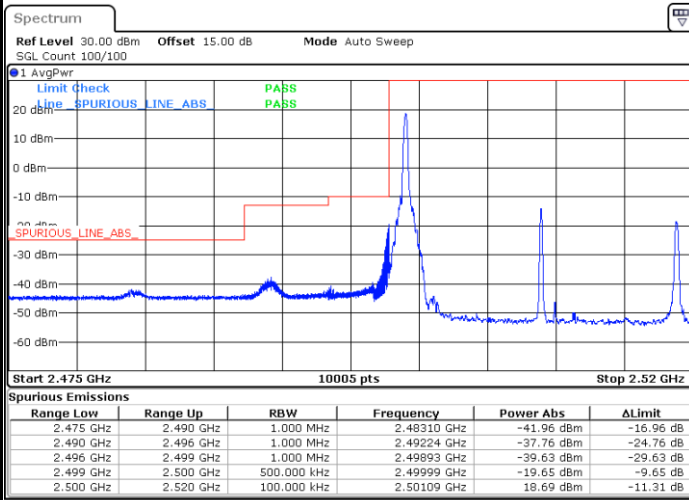


Date: 27 MAR 2025 14:13:47

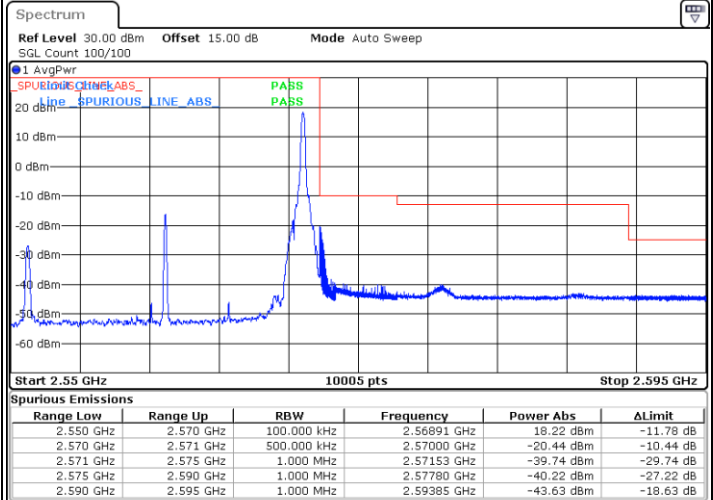


LTE Band 7 / 20MHz / 16QAM

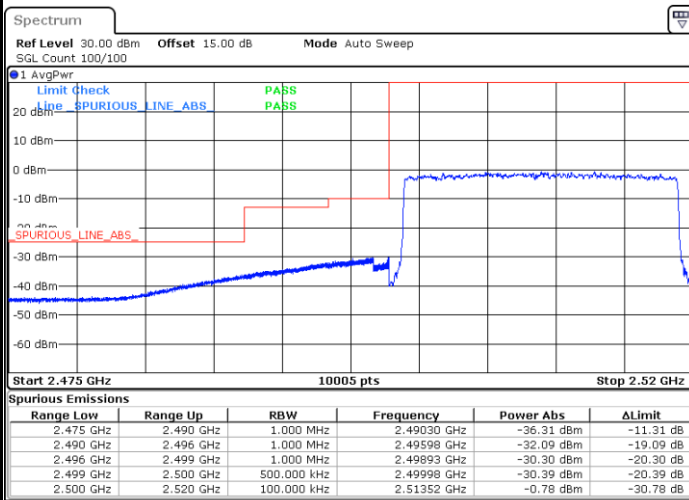
Lowest Band Edge / 1RB



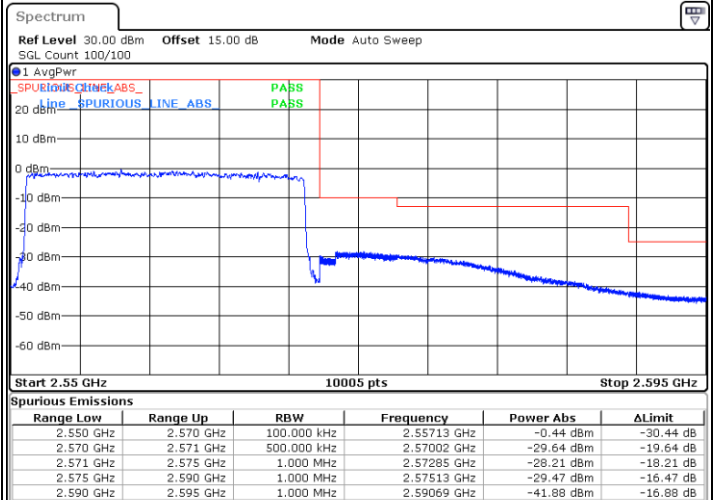
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

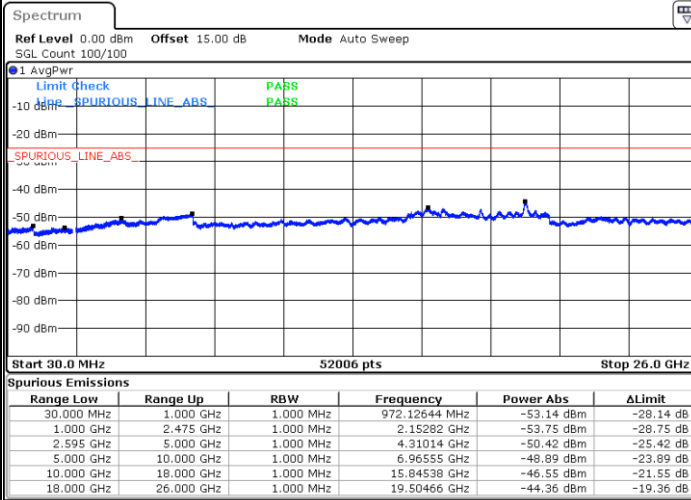




Conducted Spurious Emission

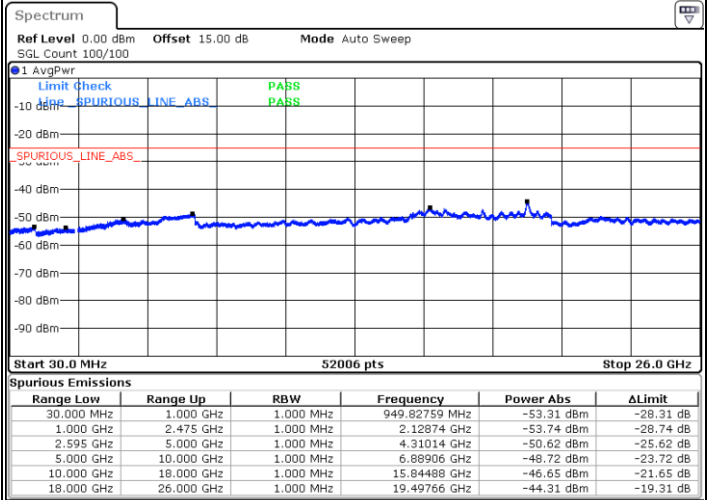
LTE Band 7 / 5MHz

Lowest Channel / QPSK



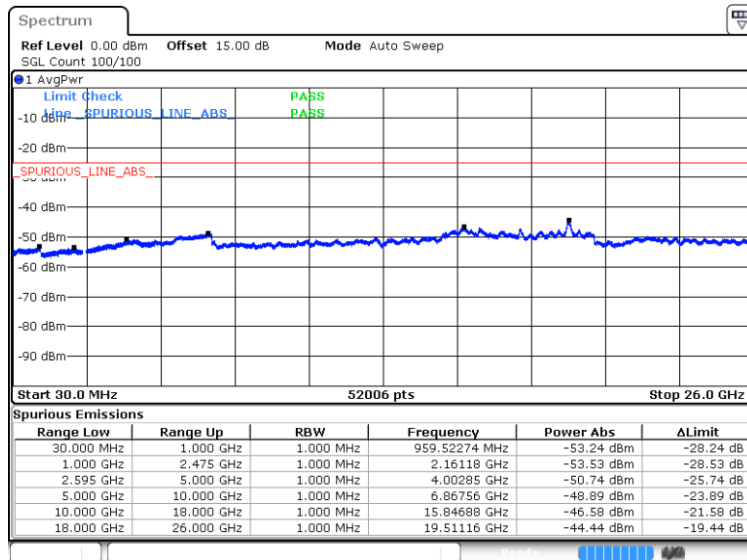
Date: 31.MAR.2025 19:26:59

Middle Channel / QPSK



Date: 31.MAR.2025 19:29:48

Highest Channel / QPSK

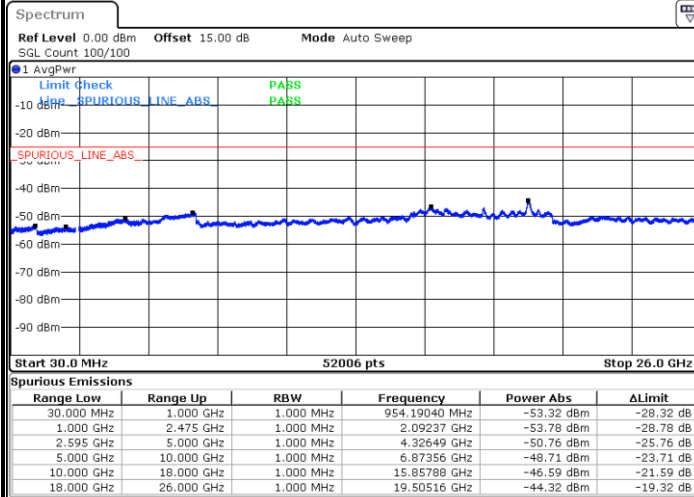


Date: 31.MAR.2025 19:28:07



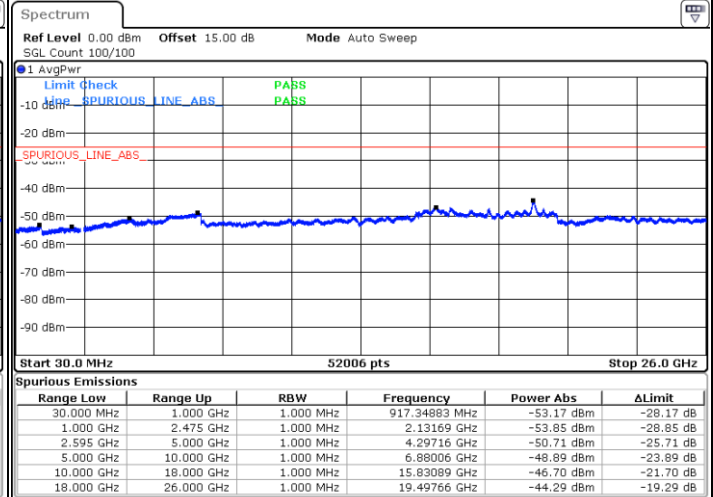
LTE Band 7 / 10MHz

Lowest Channel / QPSK



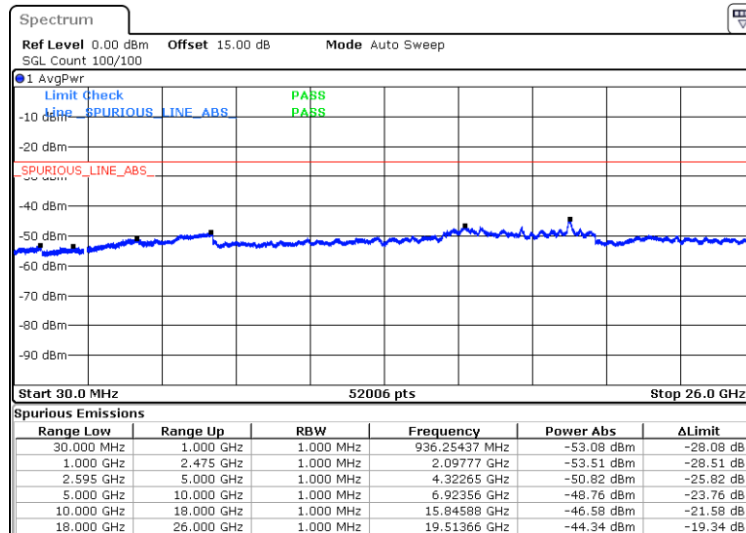
Date: 31.MAR.2025 19:31:20

Middle Channel / QPSK



Date: 31.MAR.2025 19:32:27

Highest Channel / QPSK

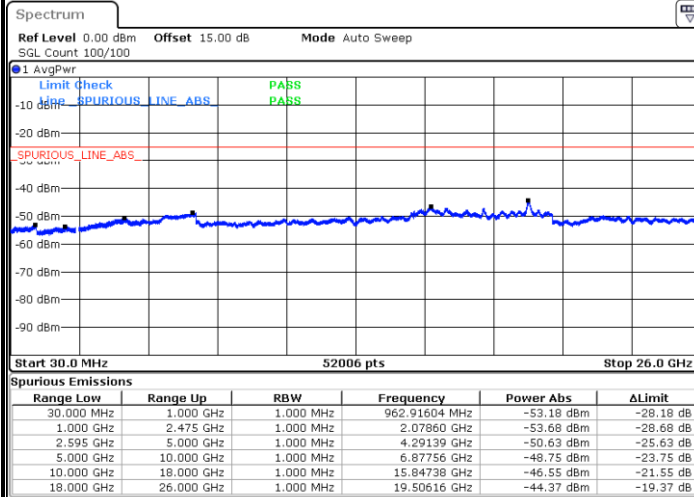


Date: 31.MAR.2025 19:33:33



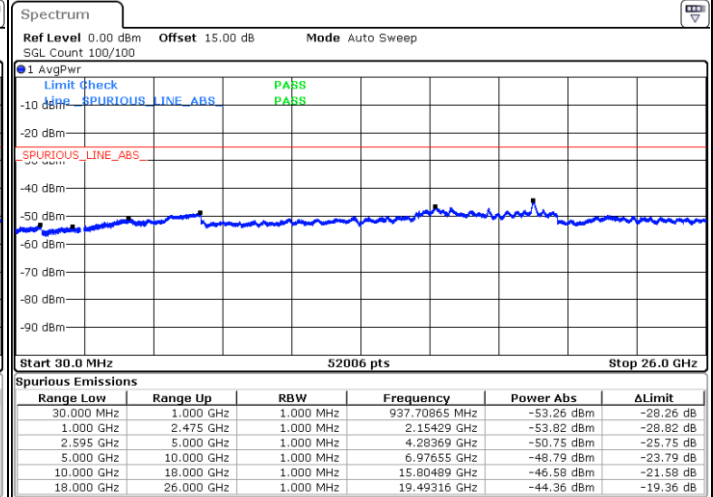
LTE Band 7 / 15MHz

Lowest Channel / QPSK



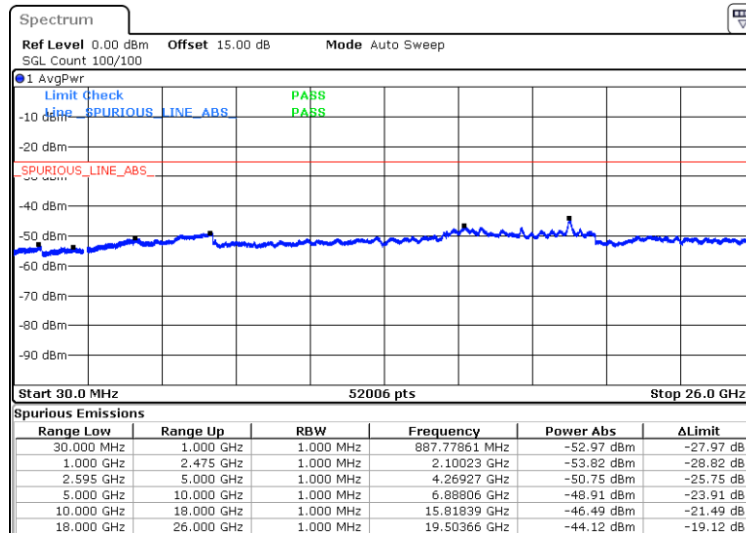
Date: 31.MAR.2025 19:39:36

Middle Channel / QPSK



Date: 31.MAR.2025 19:40:43

Highest Channel / QPSK

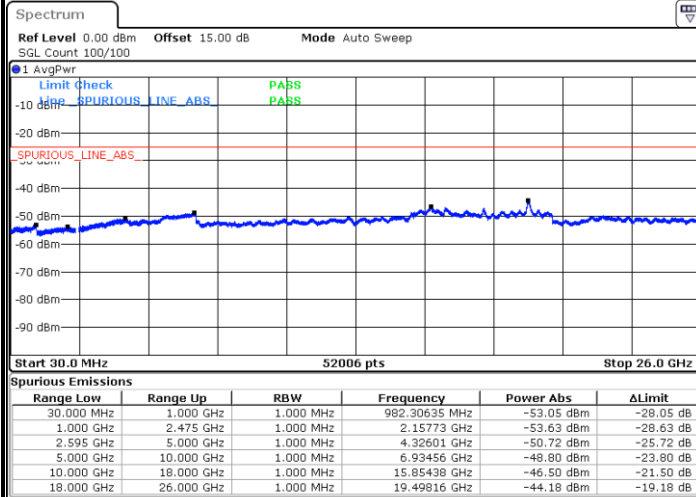


Date: 31.MAR.2025 19:41:49



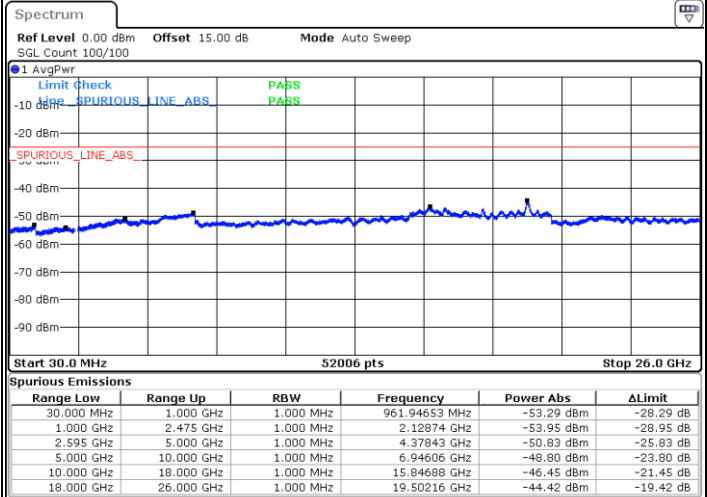
LTE Band 7 / 20MHz

Lowest Channel / QPSK



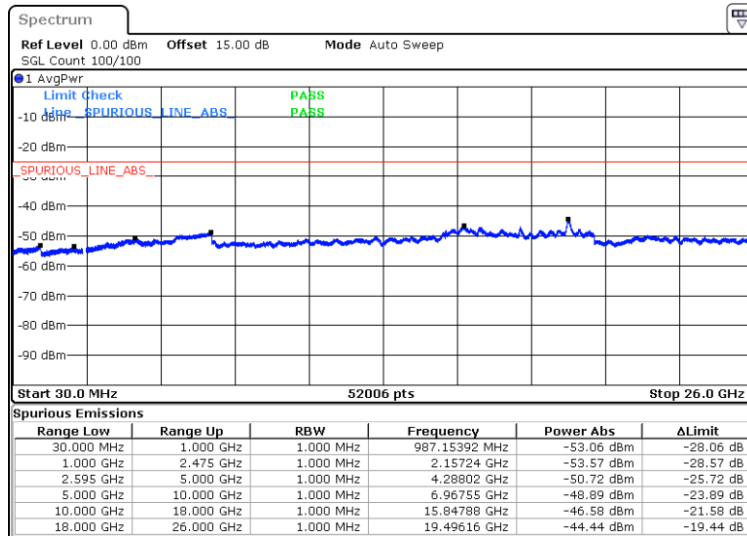
Date: 31.MAR.2025 19:43:39

Middle Channel / QPSK



Date: 31.MAR.2025 19:44:45

Highest Channel / QPSK



Date: 31.MAR.2025 19:45:52

Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	Note 2.
		Frequency Offset (Δf) (Hz)	Result
50	Normal Voltage	4.1	PASS
40	Normal Voltage	3.5	
30	Normal Voltage	3.3	
20(Ref.)	Normal Voltage	2.8	
10	Normal Voltage	-2.6	
0	Normal Voltage	2.2	
-10	Normal Voltage	1.2	
-20	Normal Voltage	3.1	
-30	Normal Voltage	1.9	
20	Maximum Voltage	2.4	
20	Normal Voltage	2.8	
20	Minimum Voltage	-2.6	

Note:

1. Normal Voltage = 12 V.; Minimum Voltage = 9 V.; Maximum Voltage = 43 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

$$|\text{MAX}(\Delta f)| = 4.1\text{Hz}$$

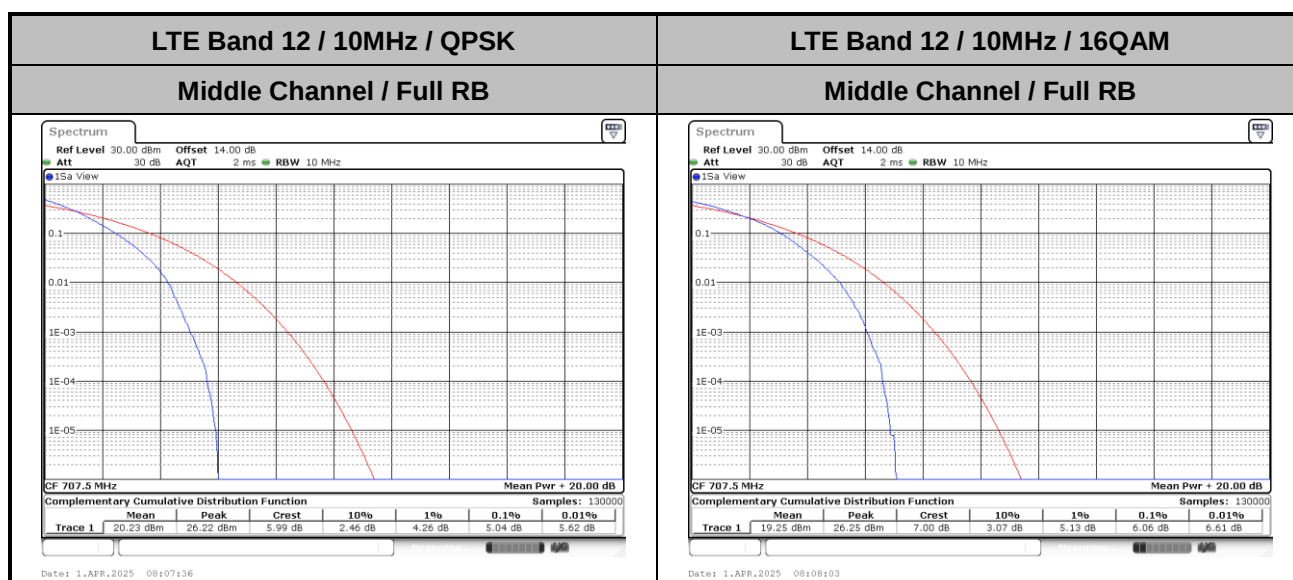
Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	2500.242296	$\geq 2500 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	2569.737804	$\leq 2570 \text{ MHz}$	



LTE Band 12

Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.04	6.06	-	PASS





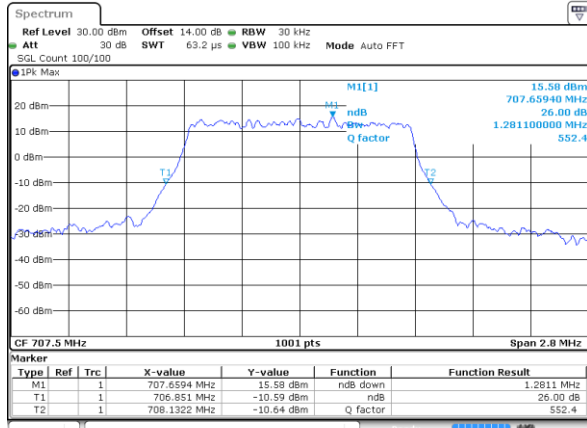
26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.28	1.29	3.00	2.96	5.00	4.94	9.71	9.93	-	-	-	-



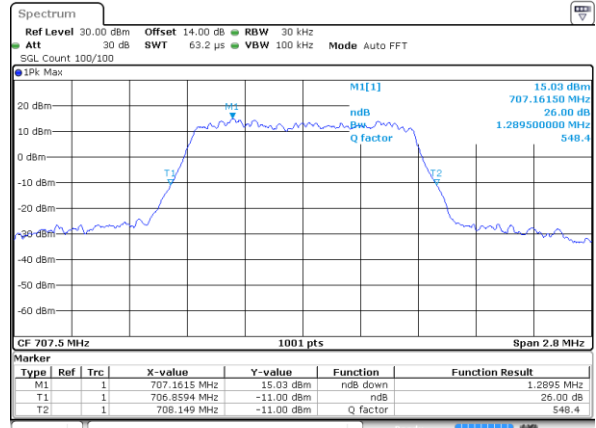
LTE Band 12

Middle Channel / 1.4MHz / QPSK



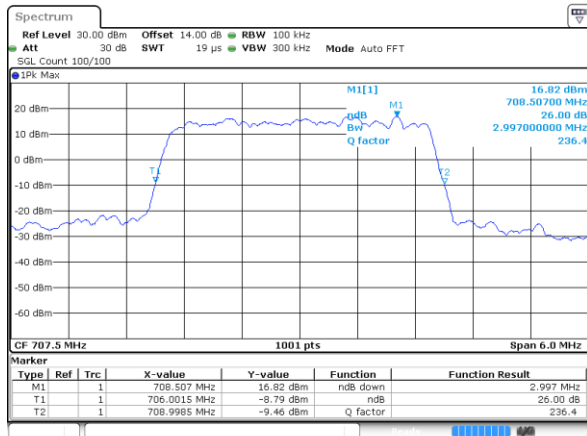
Date: 31 MAR 2025 15:23:31

Middle Channel / 1.4MHz / 16QAM



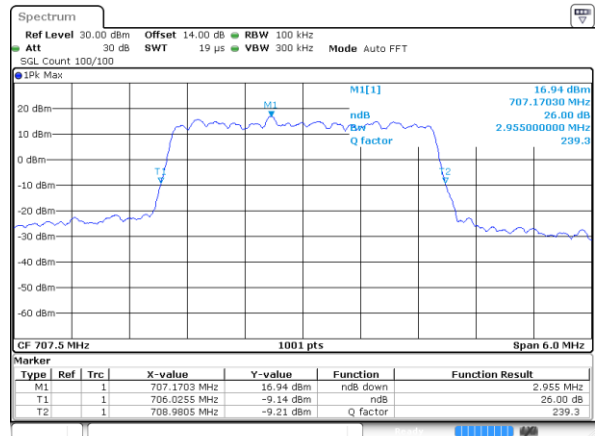
Date: 31 MAR 2025 15:24:13

Middle Channel / 3MHz / QPSK



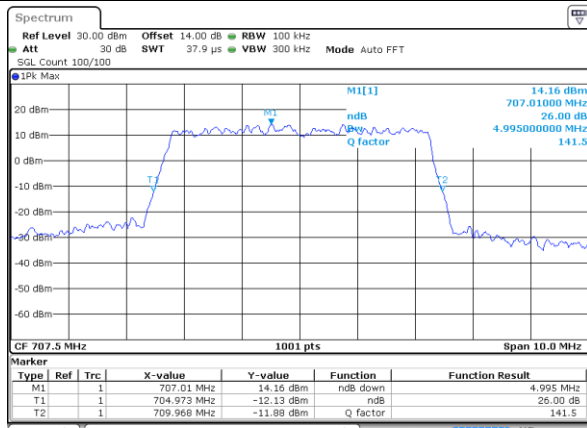
Date: 31 MAR 2025 15:34:47

Middle Channel / 3MHz / 16QAM



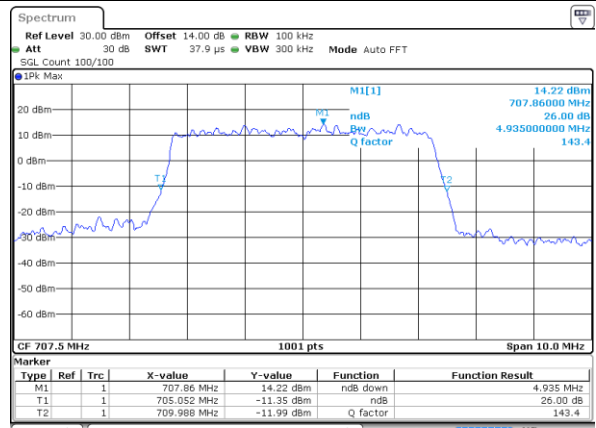
Date: 31 MAR 2025 15:35:29

Middle Channel / 5MHz / QPSK



Date: 31 MAR 2025 15:46:07

Middle Channel / 5MHz / 16QAM

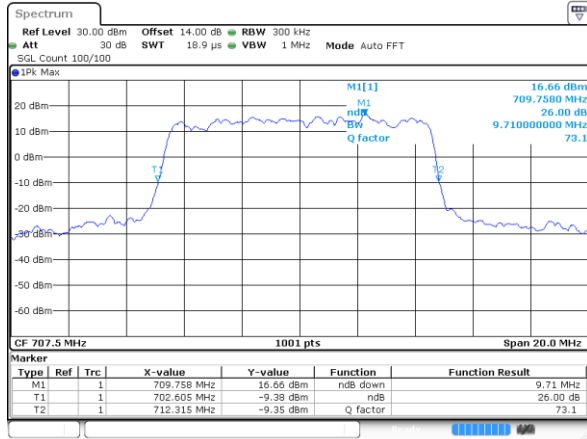


Date: 31 MAR 2025 15:46:49



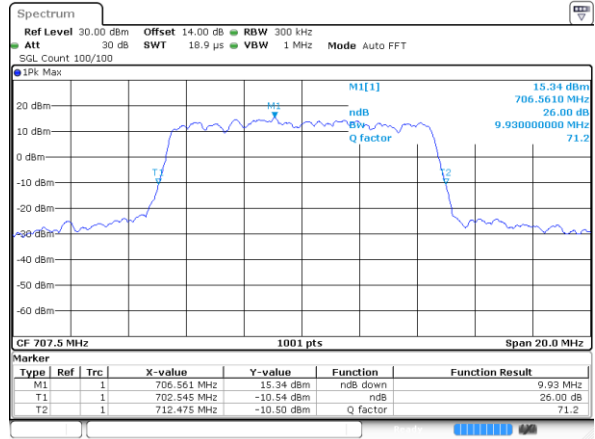
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 31 MAR 2025 15:57:32

Middle Channel / 10MHz / 16QAM



Date: 31 MAR 2025 15:58:15



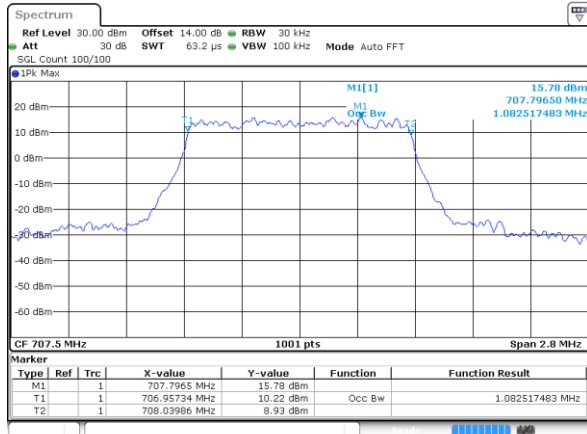
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.08	1.09	2.71	2.70	4.49	4.48	9.03	8.95	-	-	-	-

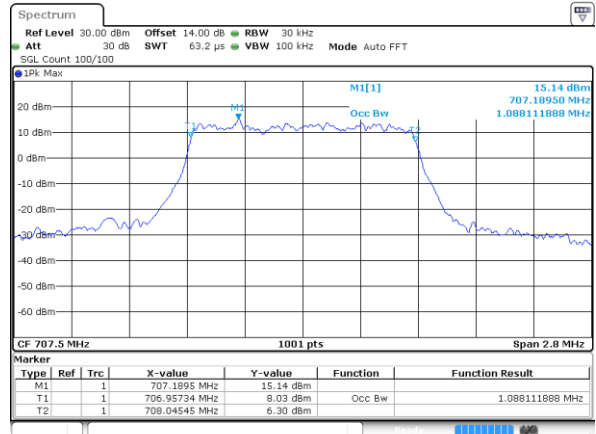


LTE Band 12

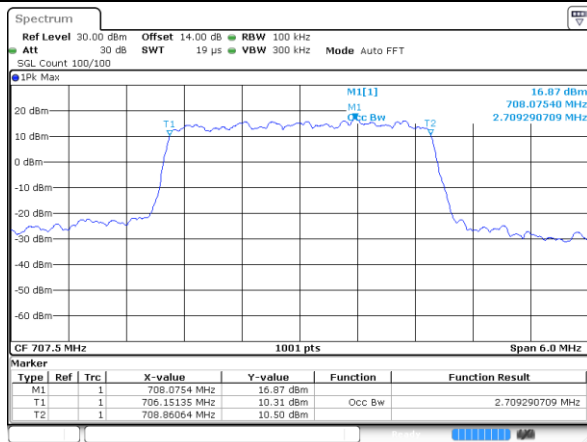
Middle Channel / 1.4MHz / QPSK



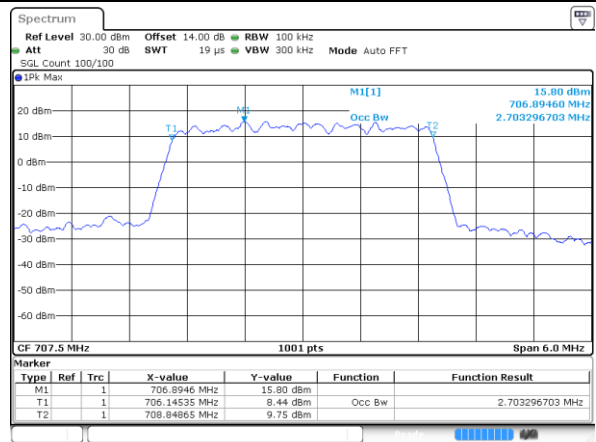
Middle Channel / 1.4MHz / 16QAM



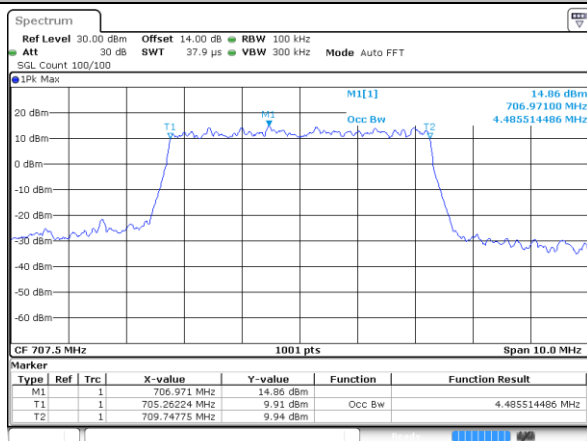
Middle Channel / 3MHz / QPSK



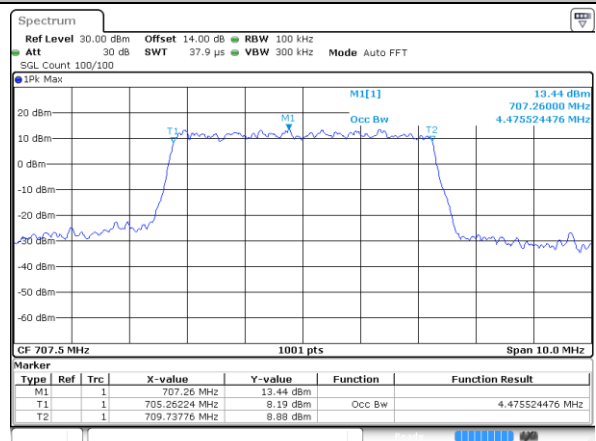
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



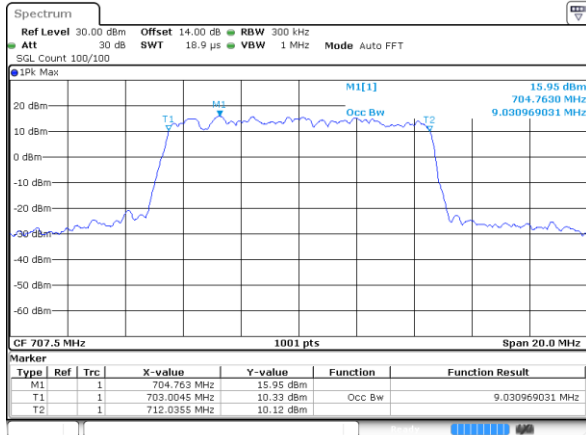
Middle Channel / 5MHz / 16QAM





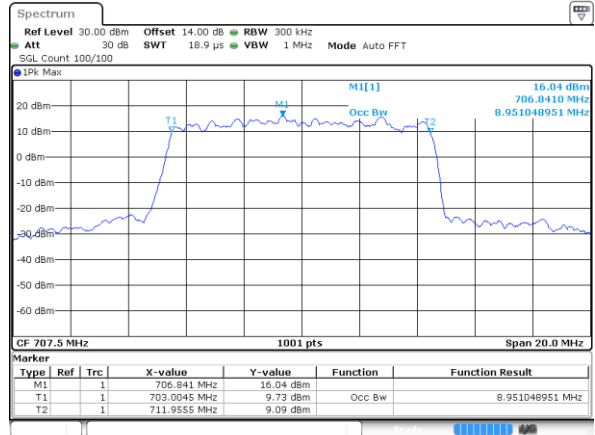
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 31 MAR 2025 15:57:18

Middle Channel / 10MHz / 16QAM



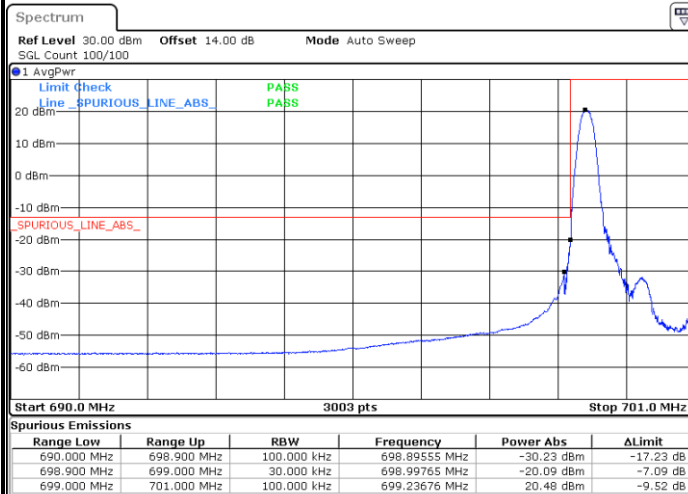
Date: 31 MAR 2025 15:58:01



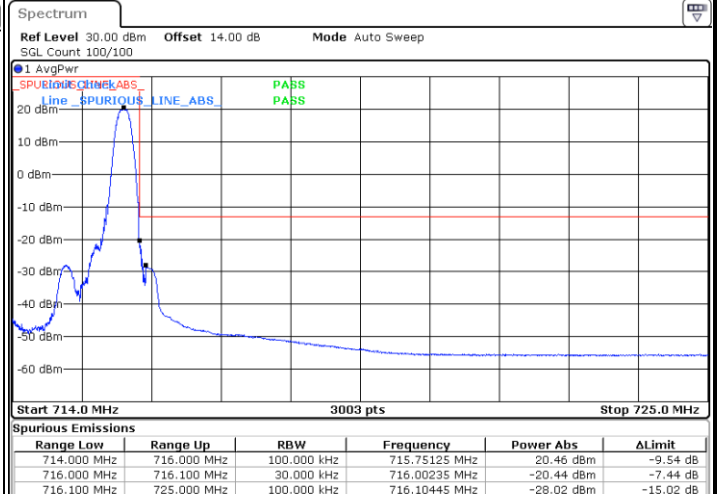
Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

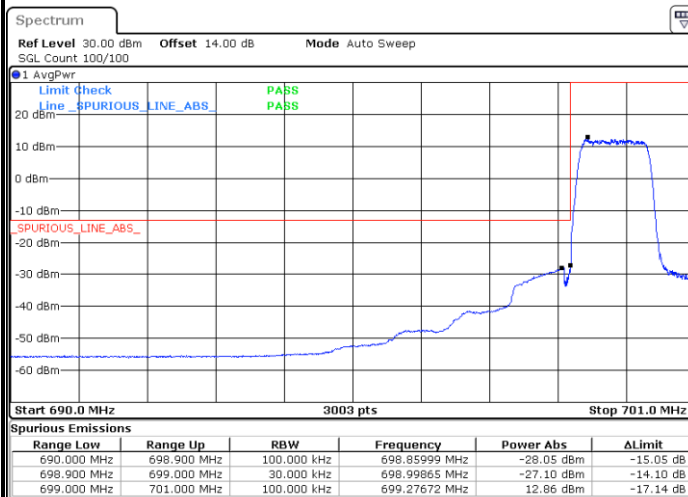
Lowest Band Edge / 1RB



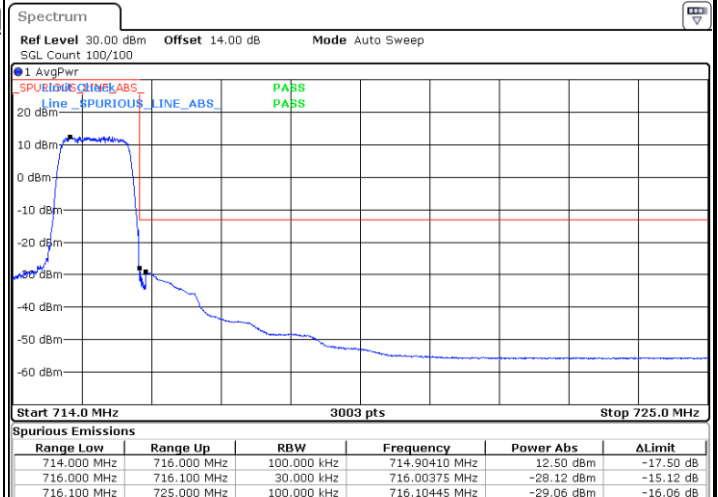
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



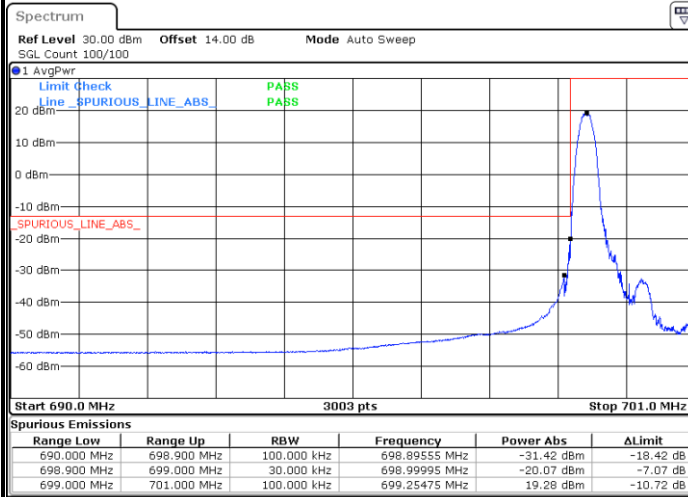
Highest Band Edge / Full RB



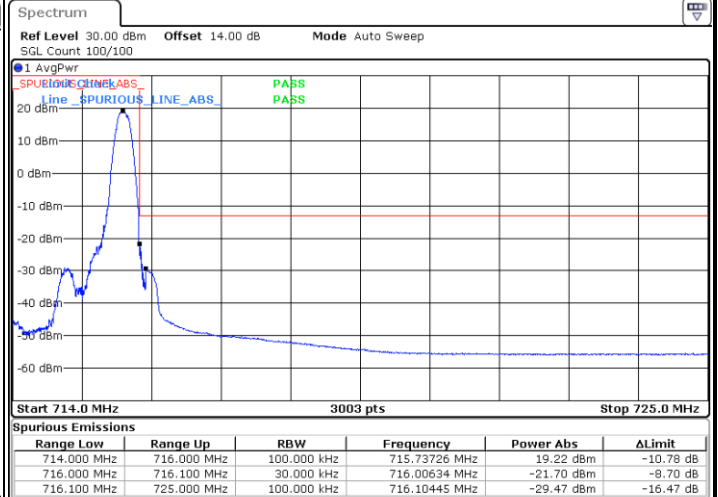


LTE Band 12 / 1.4MHz / 16QAM

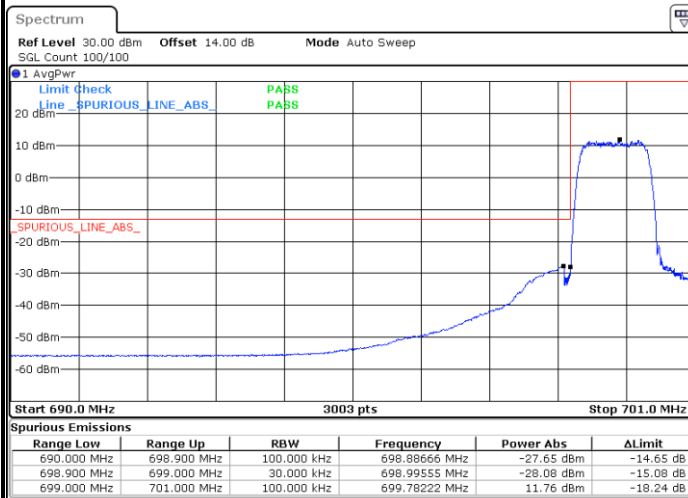
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

