FCC RF Test Report

APPLICANT	:	**Motorola Mobility LLC**
EQUIPMENT	:	**Mobile Cellular Phone**
BRAND NAME	:	**Motorola**
MODEL NAME	:	**XT2503-4, XT2505-1**
FCC ID	:	**IHDT56AU8**
STANDARD	:	**47 CFR Part 27(M), 27(N)**
CLASSIFICATION	:	**PCS Licensed Transmitter Held to Ear (PCE)**
TEST DATE(S)	:	**Dec. 29, 2024 ~ Jan. 23, 2025**

We, Sporton International Inc. (Shenzhen), 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. (Shenzhen), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia

ACCREDITED Cert #5145.01

Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG4D1311-01A	Rev. 01	Initial issue of report	Feb. 07, 2025
FG4D1311-01A	Rev. 02	1. Remove test data of B41 other PA & B38/38C. 2. Update the note information on Page 6.	Feb. 10, 2025

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	Report Only	-
	§27.50(c)(10)	Effective Radiated Power (Band 71)	ERP < 3 Watt	PASS	
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (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(g)	Conducted Band Edge Measurement (Band 71)	< 43+10log10(P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 41)	§27.53(m)(4)		
3.8	§2.1051 §27.53(g)	Conducted Spurious Emission (Band 71)	< 43+10log10(P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (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(g)	Radiated Spurious Emission (Band 71)	< 43+10log$_{10}$(P[Watts])	PASS	Under limit 25.53 dB at 10372.000 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 41)	< 55+10log$_{10}$(P[Watts])		

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. 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

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2503-4, XT2505-1
FCC ID	IHDT56AU8
IMEI Code	Conducted/Radiation: 357706750006133/357706750006141
HW Version	DVT2
SW Version	V2VC35.13
EUT Stage	Identical Prototype

Note: There are two types of EUT, model name: XT2503-4 is sample 1 and model name: XT2505-1 is sample 2, the differences could be referred to the XT2503-4, XT2505-1_Operational Description of Product Equality Declaration which is exhibit separately. According to the difference, for RF report, we choose sample 1 to full test

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 41 : 2496 MHz ~ 2690 MHz LTE Band 71: 663 MHz ~ 698 MHz
Rx Frequency	LTE Band 41 : 2496 MHz ~ 2690 MHz LTE Band 71: 617 MHz ~ 652 MHz
Bandwidth	LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 71 : 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	<Ant0> LTE Band 41 : 22.89 dBm LTE CA_41C : 22.88 dBm LTE Band 71 : 22.56 dBm <Ant1> LTE Band 41 : 24.59 dBm LTE CA_41C : 24.59 dBm LTE Band 71 : 21.72 dBm <Ant2> LTE Band 41 : 25.56 dBm LTE CA_41C : 25.52 dBm <Ant9> LTE Band 41 : 25.60 dBm LTE CA_41C : 25.52 dBm
Antenna Gain	<Ant0> LTE Band 41 : -3.9 dBi LTE Band 71 : -9.7 dBi <Ant1> LTE Band 41 : -1.3 dBi LTE Band 71 : -9.2 dBi <Ant2> LTE Band 41 : -2.4 dBi <Ant9> LTE Band 41 : -6.1 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

Note:

1. The maximum ERP/EIRP is calculated from max output power and max antenna gain, so only the maximum ERP/EIRP of Antenna 0 for LTE Band 71 and Antenna 1 for LTE Band41/41C are shown in the report.
2. LTE Band 41 supports HPUE mode.

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 41		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2498.5 ~ 2687.5	0.2128	4M49G7D	0.1799	4M48W7D
10	2501.0 ~ 2685.0	0.2109	9M11G7D	0.1824	9M01W7D
15	2503.5 ~ 2682.5	0.2123	13M5G7D	0.1803	13M6W7D
20	2506.0 ~ 2680.0	0.2133	17M9G7D	0.1791	17M9W7D
LTE Band 41 CA		QPSK		16QAM/64QAM/256QAM	
BW (MHz)		Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5MHz+20MHz		0.1982	23M1G7D	0.1614	23M1W7D
10MHz+20MHz		0.1972	28M1G7D	0.1589	28M0W7D
10MHz+15MHz		0.1945	23M5G7D	0.1581	23M4W7D
15MHz+15MHz		0.1963	28M5G7D	0.1567	28M5W7D
15MHz+20MHz		0.1919	32M9G7D	0.1596	33M0W7D
15MHz+10MHz		0.1928	23M4G7D	0.1589	23M6W7D
20MHz+5MHz		0.1977	23M4G7D	0.1589	23M3W7D
20MHz+10MHz		0.1941	28M0G7D	0.1600	27M8W7D
20MHz+15MHz		0.1945	32M9G7D	0.1581	32M7W7D
20MHz+20MHz		0.2133	37M8G7D	0.1714	37M6W7D
LTE Band 71		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
5	665.5 ~ 695.5	0.0116	4M50G7D	0.0099	4M47W7D
10	668.0 ~ 693.0	0.0115	9M05G7D	0.0100	9M03W7D
15	670.5 ~ 690.5	0.0116	13M5G7D	0.0101	13M5W7D
20	673.0 ~ 688.0	0.0118	17M9G7D	0.0102	17M9W7D

Note: 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. (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	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	TH01-SZ	CN1256	421272

Test Firm	Sporton International 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.**
	03CH01-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH01-SZ	AUDIX	E3	6.2009-8-24

1.9 Applicable Standards

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

- 47 CFR Part 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.

1.10 Specification of Accessory

Accessories Information				
AC Adapter 1(US)	**Brand Name**	Motorola(Chenyang)	**Model Name**	MC-681N
AC Adapter 1(EU)	**Brand Name**	Motorola(Chenyang)	**Model Name**	MC-682N
AC Adapter 1(UK)	**Brand Name**	Motorola(Chenyang)	**Model Name**	MC-683N
AC Adapter 1(AU)	**Brand Name**	Motorola(Chenyang)	**Model Name**	MC-685N
AC Adapter 1(AR)	**Brand Name**	Motorola(Chenyang)	**Model Name**	MC-686N
AC Adapter 1(BR)	**Brand Name**	Motorola(Chenyang)	**Model Name**	MC-687N
AC Adapter 1(CHILE)	**Brand Name**	Motorola(Chenyang)	**Model Name**	MC-689N
AC Adapter 2(US)	**Brand Name**	Motorola(Acbel)	**Model Name**	MC-681N
AC Adapter 2(EU)	**Brand Name**	Motorola(Acbel)	**Model Name**	MC-682N
AC Adapter 2(UK)	**Brand Name**	Motorola(Acbel)	**Model Name**	MC-683N
AC Adapter 2(AU)	**Brand Name**	Motorola(Acbel)	**Model Name**	MC-685N
AC Adapter 2(AR)	**Brand Name**	Motorola(Acbel)	**Model Name**	MC-686N
AC Adapter 2(BR)	**Brand Name**	Motorola(Acbel)	**Model Name**	MC-687N
AC Adapter 2(CHILE)	**Brand Name**	Motorola(Acbel)	**Model Name**	MC-689N
Battery 1	**Brand Name**	Motorola(ATL)	**Model Name**	RM52
Battery 2	**Brand Name**	Motorola(Cosmx)	**Model Name**	RM52
Earphone	**Brand Name**	Motorola(Lyand)	**Model Name**	MI181C
USB Cable 1	**Brand Name**	Motorola(saibao)	**Model Name**	SC18D71644
USB Cable 2	**Brand Name**	Motorola(Luxshare)	**Model Name**	SC18E08104
USB Cable 3	**Brand Name**	Motorola(saibao)	**Model Name**	SC18D86731
USB Cable 4	**Brand Name**	Motorola(Luxshare)	**Model Name**	SC18E08103

2 Test Configuration of Equipment Under Test

2.1 Test Mode

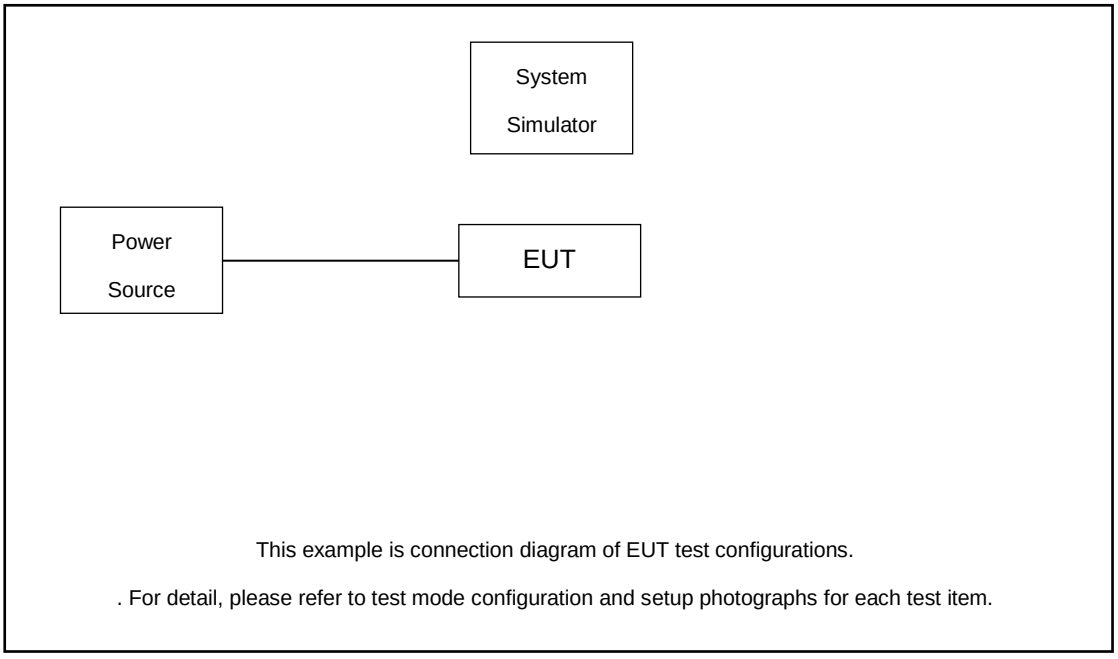
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes for Adapter mode and Earphone mode to find the maximum emission. (Y Plane)

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	71	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	71	-	-				v	v	v	v				v		v	
	41	-	-				v	v	v	v				v		v	
26dB and 99% Bandwidth	71	-	-	v	v	v	v	v	v					v		v	
	41	-	-	v	v	v	v	v	v					v		v	
Conducted Band Edge	71	-	-	v	v	v	v	v	v	v		v		v	v		v
	41	-	-	v	v	v	v	v	v	v		v		v	v		v
Conducted Spurious Emission	71	-	-	v	v	v	v	v				v			v	v	v
	41	-	-	v	v	v	v	v				v			v	v	v
Frequency Stability	71	-	-		v			v						v		v	
	41	-	-		v			v						v		v	
E.R.P/E.I.R.P	71	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	71	Worst Case														v	
	41	Worst Case														v	
Note	1. The mark "**v** " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. For QAM modulation mode, the whole testing has assessed 16QAM&64QAM mode by referring to the higher conducted power																

Test Items	Band	Bandwidth (MHz)										Modulation				RB #			Test Channel		
		20+20	20+15	15+20	20+10	10+20	20+5	5+20	15+15	15+10	10+15	QPSK	16 QAM	64 QAM	256 QAM	1	Half	Full	L	M	H
Max. Output Power	41C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v			v	v	v
26dB and 99% Bandwidth	41C_CA	v	v	v	v	v	v	v	v	v	v	v	v					v		v	
Conducted Band Edge	41C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v		v		v	v		v
Conducted Spurious Emission	41C_CA	v	v	v	v	v	v	v	v	v	v	v				v			v	v	v
E.I.R.P.	41C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	41C_CA	Worst Case																		v	
Note	1. The mark "**v** " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. For QAM modulation mode, the whole testing has assessed 16QAM&64QAM mode by referring to the higher conducted power																				

2.2 Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

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 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 :

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 5.0 + 10 = 15.0 (dB)

2.5 Frequency List of Low/Middle/High Channels

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

LTE Band 41C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	39750	40521	41292
		Frequency	2506.0	2583.1	2660.2
	SCC	Channel	39948	40719	41490
		Frequency	2525.8	2602.9	2680.0
20 + 15	PCC	Channel	39750	40546	41341
		Frequency	2506.0	2585.6	2665.1
	SCC	Channel	39921	40717	41512
		Frequency	2523.1	2602.7	2682.2
15 + 20	PCC	Channel	39728	40523	41319
		Frequency	2503.8	2593.3	2662.9
	SCC	Channel	39899	40694	41490
		Frequency	2520.9	2600.4	2680.0
20 + 10	PCC	Channel	39750	40571	41391
		Frequency	2506.0	2588.1	2670.1
	SCC	Channel	39894	40715	41535
		Frequency	2520.4	2602.5	2684.5
10 + 20	PCC	Channel	39705	40526	41346
		Frequency	2501.5	2583.6	2665.6
	SCC	Channel	39849	40670	41490
		Frequency	2515.9	2598.0	2680.0

LTE Band 41C_CA Channel and Frequency List					
20 + 5	PCC	Channel	39750	40595	41440
		Frequency	2506.0	2590.5	2675.0
	SCC	Channel	39867	40712	41557
		Frequency	2517.7	2602.2	2686.7
5 + 20	PCC	Channel	39683	40528	41373
		Frequency	2499.3	2583.8	2668.3
	SCC	Channel	39800	40645	41490
		Frequency	2511.0	2595.5	2680.0
15 + 15	PCC	Channel	39725	40545	41365
		Frequency	2503.5	2585.5	2667.5
	SCC	Channel	39875	40695	41515
		Frequency	2518.5	2600.5	2682.5
10 + 15	PCC	Channel	39703	40549	41395
		Frequency	2501.3	2585.9	2670.5
	SCC	Channel	39823	40669	41515
		Frequency	2513.3	2597.9	2682.5
15 + 10	PCC	Channel	39725	40571	41417
		Frequency	2503.5	2588.1	2672.7
	SCC	Channel	39845	40691	41537
		Frequency	2515.5	2600.1	2684.7

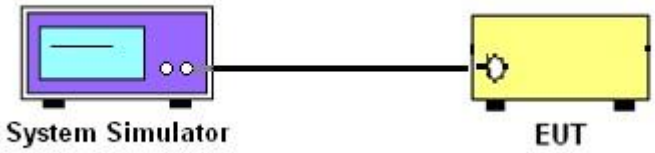
3 Conducted Test Items

3.1 Measuring Instruments

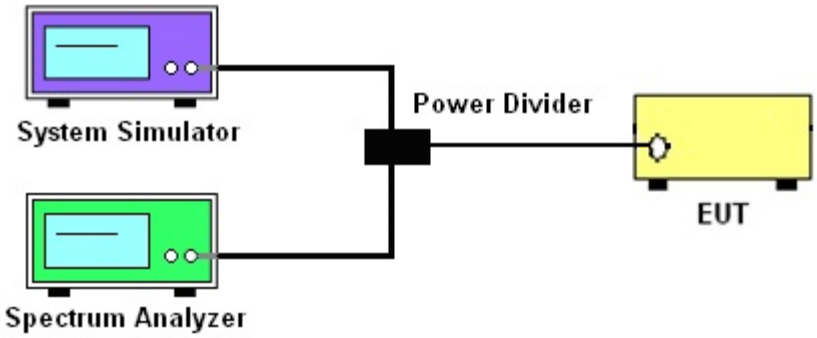
See list of measuring instruments of this test report.

3.2 Test Setup

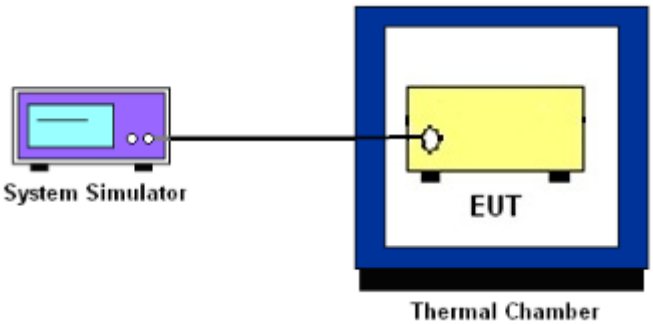
3.2.1 Conducted Output Power



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

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 71.

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

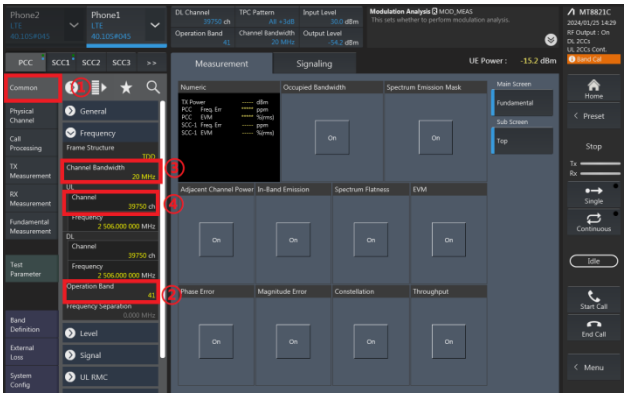
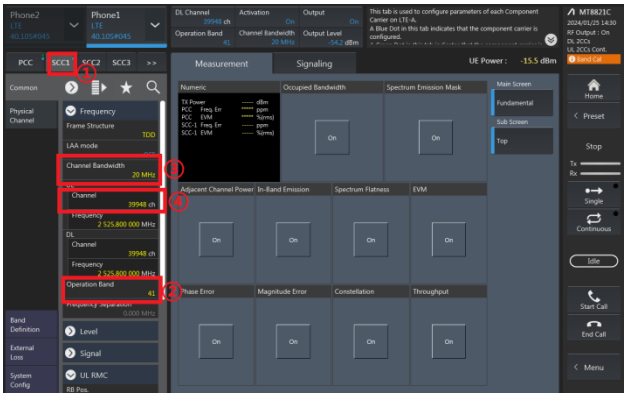
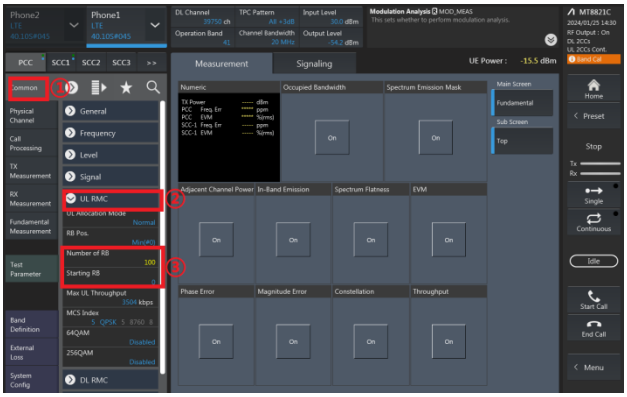
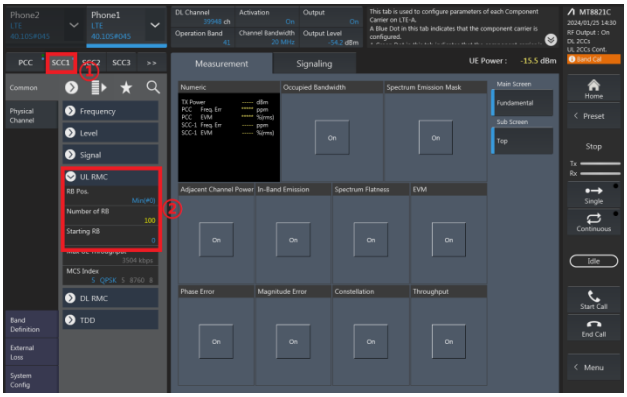
L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

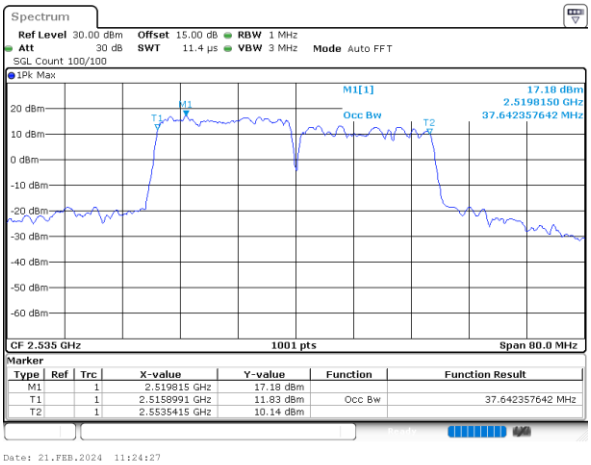
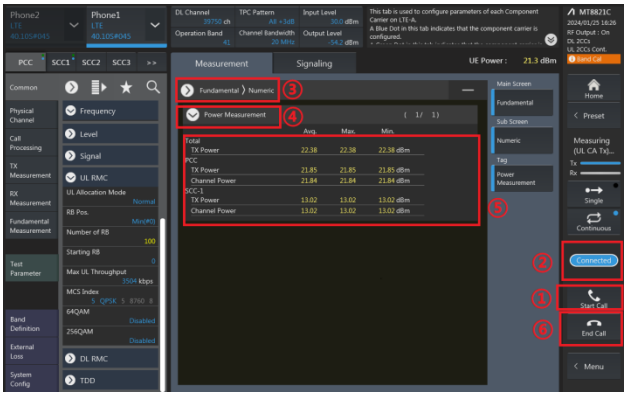
1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from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

3.4.3 Test Procedures for LTE ULCA

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter PCC & SCC output ports were connected to the system simulator.
3. Set EUT at maximum power, set the PCC/SCC CA band, channel, bandwidth and RB config.

PCC config_(Channel Bandwidth / Channel / Band)	SCC config_(Channel Bandwidth / Channel / Band)
	
PCC config_(Number of RB / Starting RB)	**SCC config_(Number of RB / Starting RB)**
	

4. Select lowest, middle, and highest channels for each ULCA band and different modulation.
5. Check the ULCA spectrum and record the total power from the system simulator.

Check the ULCA spectrum (eg. 20M+20M)	Read the Total UL CA output power (PCC+SCC)
	

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 (g)

For operations in the 600MHz band and 698 -746 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(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 that 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
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW >= 1%/2% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
6. Set spectrum analyzer with RMS detector.
7. Offset has included the duty factor for LTE Band 41. Duty factor =10 log (1/x), where x is the measured duty cycle
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. Checked that all the results comply with the emission limit line.
   Example:
   The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [43 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.
10. For LTE Band 41, the other 40 dB, and 55 dB have additionally applied same calculation above.
11. 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 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 10^{th} harmonic.

3.8.2 Test Procedures

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

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.

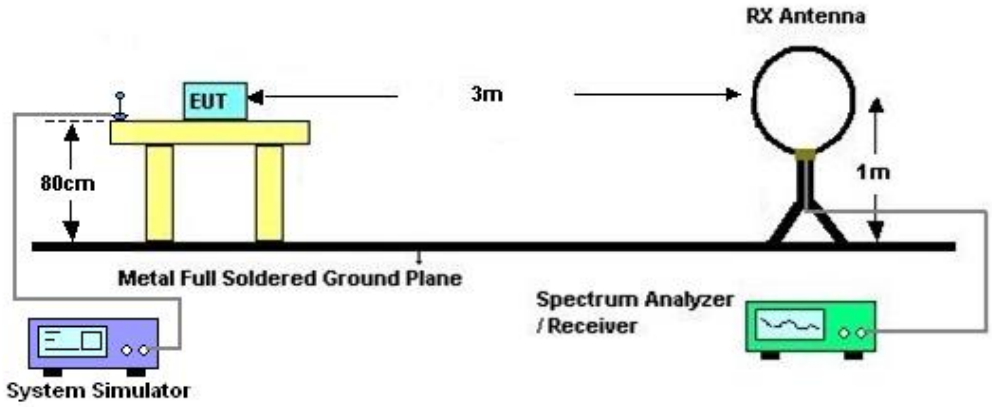
4 Radiated Test Items

4.1 Measuring Instruments

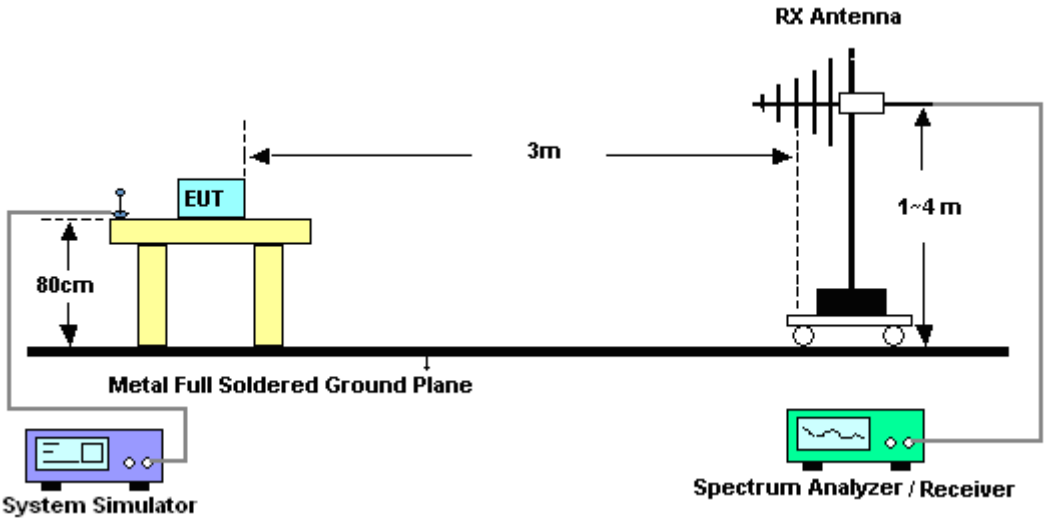
See list of measuring instruments of this test report.

4.2 Test Setup

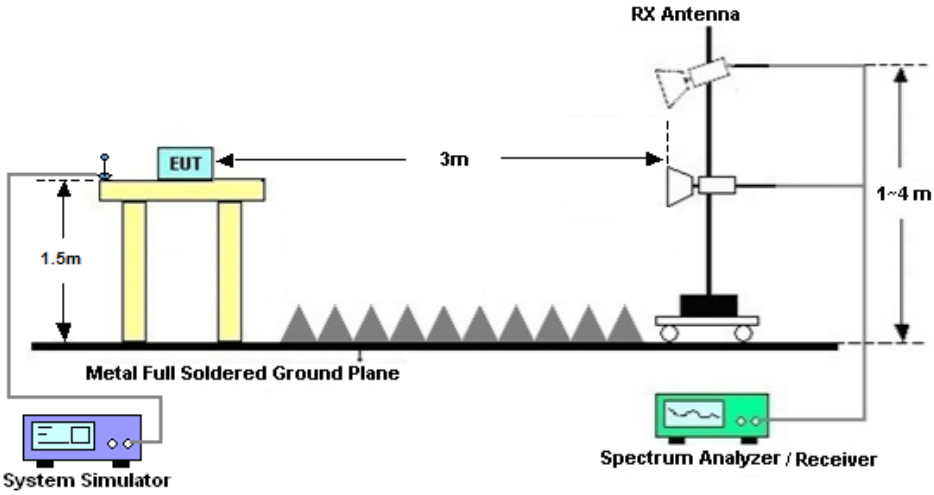
4.2.1 For radiated test below 30MHz



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 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.

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 (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
11. ERP (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 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.
13. For Band 41:
    The limit line is derived from 55 + 10log(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. 09, 2024	Jan. 07, 2025~ Jan. 23, 2025	Apr. 08, 2025	Conducted (TH01-SZ)
Power Divider	Titan	P02N005180	923402	0.4GHz~26.5GHz	Nov. 08, 2024	Jan. 07, 2025~ Jan. 23, 2025	Nov. 07, 2025	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 03, 2024	Jan. 07, 2025~ Jan. 23, 2025	Jul. 02, 2025	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 26, 2024	Dec. 29, 2024	Dec. 25, 2025	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Dec. 29, 2024	Dec. 27, 2025	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 14, 2024	Dec. 29, 2024	Oct. 13, 2025	Radiation (03CH01-SZ
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Oct. 24, 2023	Dec. 29, 2024	Oct. 23, 2025	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Dec. 29, 2024	Jul. 03, 2025	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 09 ,2024	Dec. 29, 2024	Apr. 08, 2025	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 09, 2024	Dec. 29, 2024	Apr. 08, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-1	1943528	1GHz~18GHz	Oct. 14, 2024	Dec. 29, 2024	Oct. 13, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2024	Dec. 29, 2024	Jul. 02, 2025	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	Oct. 14, 2024	Dec. 29, 2024	Oct. 13, 2025	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Dec. 29, 2024	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Dec. 29, 2024	NCR	Radiation (03CH01-SZ)

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))	2.48 dB

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.53 dB

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.02 dB

---------- THE END ----------

Appendix A. Test Results of Conducted Test

Test Engineer :	Fly	Temperature :	22~23℃
		Relative Humidity :	40~42%

Conducted Output Power(Average power) and EIRP

LTE Band71_Ant0:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				133222	133322	133372			
Frequency (MHz)				673	683	688	L	M	H
20	QPSK	1	0	22.46	22.56	22.53	0.0115	0.0118	0.0117
20	QPSK	1	49	22.35	22.46	22.41	0.0112	0.0115	0.0114
20	QPSK	1	99	22.36	22.39	22.35	0.0112	0.0113	0.0112
20	QPSK	50	0	21.47	21.49	21.45	0.0092	0.0092	0.0091
20	QPSK	50	24	21.38	21.38	21.27	0.0090	0.0090	0.0087
20	QPSK	50	50	21.26	21.36	21.38	0.0087	0.0089	0.0090
20	QPSK	100	0	21.43	21.45	21.42	0.0091	0.0091	0.0091
20	16QAM	1	0	21.72	21.74	21.74	0.0097	0.0097	0.0097
20	16QAM	1	49	21.82	21.93	21.81	0.0099	0.0102	0.0099
20	16QAM	1	99	21.80	21.83	21.69	0.0099	0.0100	0.0096
20	16QAM	50	0	20.37	20.51	20.40	0.0071	0.0073	0.0072
20	16QAM	50	24	20.34	20.40	20.33	0.0071	0.0072	0.0070
20	16QAM	50	50	20.41	20.34	20.40	0.0072	0.0071	0.0072
20	16QAM	100	0	20.41	20.39	20.41	0.0072	0.0071	0.0072
20	64QAM	1	0	20.57	20.57	20.45	0.0074	0.0074	0.0072
20	64QAM	1	49	20.51	20.48	20.49	0.0073	0.0073	0.0073
20	64QAM	1	99	20.45	20.55	20.64	0.0072	0.0074	0.0076
20	64QAM	50	0	19.46	19.35	19.37	0.0058	0.0056	0.0056
20	64QAM	50	24	19.29	19.46	19.50	0.0055	0.0058	0.0058
20	64QAM	50	50	19.45	19.37	19.35	0.0058	0.0056	0.0056
20	64QAM	100	0	19.37	19.39	19.36	0.0056	0.0057	0.0056
20	256QAM	1	0	17.49	17.54	17.49	0.0037	0.0037	0.0037
20	256QAM	1	49	17.46	17.62	17.55	0.0036	0.0038	0.0037
20	256QAM	1	99	17.46	17.46	17.44	0.0036	0.0036	0.0036
20	256QAM	50	0	17.45	17.50	17.50	0.0036	0.0037	0.0037
20	256QAM	50	24	17.40	17.54	17.37	0.0036	0.0037	0.0036
20	256QAM	50	50	17.42	17.53	17.41	0.0036	0.0037	0.0036
20	256QAM	100	0	17.53	17.56	17.45	0.0037	0.0037	0.0036
Channel				133197	133297	133397	EIRP(W)		
Frequency (MHz)				670.5	680.5	690.5	L	M	H
15	QPSK	1	0	22.43	22.46	22.51	0.0114	0.0115	0.0116

15	QPSK	1	37	22.26	22.34	22.29	0.0110	0.0112	0.0111
15	QPSK	1	74	22.31	22.27	22.26	0.0111	0.0110	0.0110
15	QPSK	36	0	21.40	21.41	21.33	0.0090	0.0090	0.0089
15	QPSK	36	20	21.37	21.32	21.26	0.0090	0.0089	0.0087
15	QPSK	36	39	21.24	21.32	21.28	0.0087	0.0089	0.0088
15	QPSK	75	0	21.32	21.33	21.37	0.0089	0.0089	0.0090
15	16QAM	1	0	21.70	21.70	21.68	0.0097	0.0097	0.0096
15	16QAM	1	37	21.73	21.91	21.72	0.0097	0.0101	0.0097
15	16QAM	1	74	21.69	21.76	21.63	0.0096	0.0098	0.0095
15	16QAM	36	0	20.34	20.39	20.33	0.0071	0.0071	0.0070
15	16QAM	36	20	20.24	20.30	20.21	0.0069	0.0070	0.0069
15	16QAM	36	39	20.34	20.31	20.31	0.0071	0.0070	0.0070
15	16QAM	75	0	20.32	20.30	20.28	0.0070	0.0070	0.0070
15	64QAM	1	0	20.56	20.52	20.41	0.0074	0.0074	0.0072
15	64QAM	1	37	20.47	20.46	20.36	0.0073	0.0073	0.0071
15	64QAM	1	74	20.38	20.48	20.61	0.0071	0.0073	0.0075
15	64QAM	36	0	19.43	19.25	19.35	0.0057	0.0055	0.0056
15	64QAM	36	20	19.28	19.42	19.39	0.0055	0.0057	0.0057
15	64QAM	36	39	19.41	19.27	19.23	0.0057	0.0055	0.0055
15	64QAM	75	0	19.25	19.30	19.32	0.0055	0.0056	0.0056
15	256QAM	1	0	17.43	17.49	17.41	0.0036	0.0037	0.0036
15	256QAM	1	37	17.40	17.58	17.47	0.0036	0.0037	0.0036
15	256QAM	1	74	17.44	17.35	17.35	0.0036	0.0035	0.0035
15	256QAM	36	0	17.42	17.37	17.42	0.0036	0.0036	0.0036
15	256QAM	36	20	17.34	17.51	17.30	0.0035	0.0037	0.0035
15	256QAM	36	39	17.31	17.41	17.32	0.0035	0.0036	0.0035
15	256QAM	75	0	17.41	17.51	17.41	0.0036	0.0037	0.0036
Channel				133172	133272	133422	EIRP(W)		
Frequency (MHz)				668	678	693	L	M	H
10	QPSK	1	0	22.35	22.46	22.41	0.0112	0.0115	0.0114
10	QPSK	1	25	22.31	22.39	22.37	0.0111	0.0113	0.0113
10	QPSK	1	49	22.24	22.35	22.22	0.0109	0.0112	0.0109
10	QPSK	25	0	21.35	21.41	21.36	0.0089	0.0090	0.0089
10	QPSK	25	12	21.37	21.33	21.14	0.0090	0.0089	0.0085
10	QPSK	25	25	21.23	21.32	21.33	0.0087	0.0089	0.0089
10	QPSK	50	0	21.37	21.37	21.31	0.0090	0.0090	0.0088
10	16QAM	1	0	21.64	21.71	21.71	0.0095	0.0097	0.0097
10	16QAM	1	25	21.76	21.84	21.68	0.0098	0.0100	0.0096
10	16QAM	1	49	21.69	21.77	21.60	0.0096	0.0098	0.0094
10	16QAM	25	0	20.32	20.44	20.31	0.0070	0.0072	0.0070
10	16QAM	25	12	20.27	20.34	20.25	0.0070	0.0071	0.0069
10	16QAM	25	25	20.39	20.30	20.29	0.0071	0.0070	0.0070
10	16QAM	50	0	20.33	20.35	20.40	0.0070	0.0071	0.0072
10	64QAM	1	0	20.46	20.53	20.39	0.0073	0.0074	0.0071
10	64QAM	1	25	20.48	20.35	20.38	0.0073	0.0071	0.0071

10	64QAM	1	49	20.35	20.47	20.62	0.0071	0.0073	0.0075
10	64QAM	25	0	19.33	19.29	19.32	0.0056	0.0055	0.0056
10	64QAM	25	12	19.23	19.37	19.41	0.0055	0.0056	0.0057
10	64QAM	25	25	19.42	19.26	19.30	0.0057	0.0055	0.0056
10	64QAM	50	0	19.30	19.34	19.33	0.0056	0.0056	0.0056
10	256QAM	1	0	17.45	17.48	17.36	0.0036	0.0037	0.0036
10	256QAM	1	25	17.39	17.58	17.51	0.0036	0.0037	0.0037
10	256QAM	1	49	17.36	17.36	17.35	0.0036	0.0036	0.0035
10	256QAM	25	0	17.37	17.41	17.38	0.0036	0.0036	0.0036
10	256QAM	25	12	17.28	17.47	17.32	0.0035	0.0036	0.0035
10	256QAM	25	25	17.31	17.45	17.31	0.0035	0.0036	0.0035
10	256QAM	50	0	17.44	17.43	17.37	0.0036	0.0036	0.0036
Channel				133147	133247	133447	EIRP(W)		
Frequency (MHz)				665.5	675.5	695.5	L	M	H
5	QPSK	1	0	22.34	22.43	22.50	0.0112	0.0114	0.0116
5	QPSK	1	12	22.33	22.44	22.33	0.0112	0.0115	0.0112
5	QPSK	1	24	22.27	22.29	22.30	0.0110	0.0111	0.0111
5	QPSK	12	0	21.35	21.45	21.33	0.0089	0.0091	0.0089
5	QPSK	12	7	21.28	21.28	21.15	0.0088	0.0088	0.0085
5	QPSK	12	13	21.18	21.33	21.37	0.0086	0.0089	0.0090
5	QPSK	25	0	21.39	21.38	21.33	0.0090	0.0090	0.0089
5	16QAM	1	0	21.68	21.70	21.64	0.0096	0.0097	0.0095
5	16QAM	1	12	21.77	21.82	21.70	0.0098	0.0099	0.0097
5	16QAM	1	24	21.72	21.78	21.60	0.0097	0.0098	0.0094
5	16QAM	12	0	20.28	20.40	20.29	0.0070	0.0072	0.0070
5	16QAM	12	7	20.31	20.34	20.29	0.0070	0.0071	0.0070
5	16QAM	12	13	20.38	20.24	20.31	0.0071	0.0069	0.0070
5	16QAM	25	0	20.34	20.32	20.31	0.0071	0.0070	0.0070
5	64QAM	1	0	20.54	20.52	20.37	0.0074	0.0074	0.0071
5	64QAM	1	12	20.45	20.43	20.40	0.0072	0.0072	0.0072
5	64QAM	1	24	20.41	20.50	20.54	0.0072	0.0073	0.0074
5	64QAM	12	0	19.43	19.32	19.33	0.0057	0.0056	0.0056
5	64QAM	12	7	19.28	19.44	19.46	0.0055	0.0057	0.0058
5	64QAM	12	13	19.32	19.24	19.32	0.0056	0.0055	0.0056
5	64QAM	25	0	19.31	19.38	19.29	0.0056	0.0057	0.0055
5	256QAM	1	0	17.41	17.42	17.40	0.0036	0.0036	0.0036
5	256QAM	1	12	17.36	17.58	17.53	0.0036	0.0037	0.0037
5	256QAM	1	24	17.37	17.35	17.42	0.0036	0.0035	0.0036
5	256QAM	12	0	17.36	17.42	17.41	0.0036	0.0036	0.0036
5	256QAM	12	7	17.36	17.43	17.24	0.0036	0.0036	0.0035
5	256QAM	12	13	17.34	17.41	17.38	0.0035	0.0036	0.0036
5	256QAM	25	0	17.50	17.50	17.37	0.0037	0.0037	0.0036

LTE Band41_Ant1:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				39750	40620	41490			
Frequency (MHz)				2506	2593	2680	L	M	H
20	QPSK	1	0	24.50	24.59	24.52	0.2089	0.2133	0.2099
20	QPSK	1	49	24.42	24.49	24.36	0.2051	0.2084	0.2023
20	QPSK	1	99	24.32	24.53	24.35	0.2004	0.2104	0.2018
20	QPSK	50	0	23.47	23.55	23.41	0.1648	0.1679	0.1626
20	QPSK	50	24	23.33	23.31	23.25	0.1596	0.1589	0.1567
20	QPSK	50	50	23.29	23.37	23.32	0.1581	0.1611	0.1592
20	QPSK	100	0	23.51	23.53	23.42	0.1663	0.1671	0.1629
20	16QAM	1	0	23.63	23.71	23.58	0.1710	0.1742	0.1690
20	16QAM	1	49	23.62	23.82	23.72	0.1706	0.1786	0.1746
20	16QAM	1	99	23.72	23.83	23.71	0.1746	0.1791	0.1742
20	16QAM	50	0	22.28	22.37	22.27	0.1253	0.1279	0.1250
20	16QAM	50	24	22.12	22.40	22.14	0.1208	0.1288	0.1213
20	16QAM	50	50	22.35	22.39	22.32	0.1274	0.1285	0.1265
20	16QAM	100	0	22.25	22.42	22.22	0.1245	0.1294	0.1236
20	64QAM	1	0	22.45	22.49	22.41	0.1303	0.1315	0.1291
20	64QAM	1	49	22.49	22.51	22.58	0.1315	0.1321	0.1343
20	64QAM	1	99	22.47	22.69	22.46	0.1309	0.1377	0.1306
20	64QAM	50	0	21.47	21.46	21.42	0.1040	0.1038	0.1028
20	64QAM	50	24	21.43	21.45	21.37	0.1030	0.1035	0.1016
20	64QAM	50	50	21.36	21.47	21.35	0.1014	0.1040	0.1012
20	64QAM	100	0	21.16	21.33	21.22	0.0968	0.1007	0.0982
20	256QAM	1	0	19.39	19.53	19.44	0.0644	0.0665	0.0652
20	256QAM	1	49	19.32	19.48	19.28	0.0634	0.0658	0.0628
20	256QAM	1	99	19.38	19.46	19.37	0.0643	0.0655	0.0641
20	256QAM	50	0	19.24	19.29	19.26	0.0622	0.0630	0.0625
20	256QAM	50	24	19.14	19.33	19.13	0.0608	0.0635	0.0607
20	256QAM	50	50	19.16	19.39	19.20	0.0611	0.0644	0.0617
20	256QAM	100	0	19.29	19.41	19.30	0.0630	0.0647	0.0631
Channel				39725	40620	41515	EIRP(W)		
Frequency (MHz)				2503.5	2593	2682.5	L	M	H
15	QPSK	1	0	24.46	24.50	24.46	0.2070	0.2089	0.2070
15	QPSK	1	37	24.34	24.57	24.38	0.2014	0.2123	0.2032
15	QPSK	1	74	24.31	24.54	24.34	0.2000	0.2109	0.2014
15	QPSK	36	0	23.45	23.41	23.37	0.1641	0.1626	0.1611
15	QPSK	36	20	23.29	23.40	23.35	0.1581	0.1622	0.1603
15	QPSK	36	39	23.27	23.42	23.23	0.1574	0.1629	0.1560
15	QPSK	75	0	23.33	23.46	23.40	0.1596	0.1644	0.1622
15	16QAM	1	0	23.58	23.71	23.61	0.1690	0.1742	0.1702
15	16QAM	1	37	23.64	23.86	23.68	0.1714	0.1803	0.1730
15	16QAM	1	74	23.78	23.85	23.79	0.1770	0.1799	0.1774

15	16QAM	36	0	22.33	22.42	22.27	0.1268	0.1294	0.1250
15	16QAM	36	20	22.19	22.45	22.13	0.1227	0.1303	0.1211
15	16QAM	36	39	22.33	22.35	22.39	0.1268	0.1274	0.1285
15	16QAM	75	0	22.30	22.38	22.29	0.1259	0.1282	0.1256
15	64QAM	1	0	22.46	22.57	22.52	0.1306	0.1340	0.1324
15	64QAM	1	37	22.51	22.56	22.52	0.1321	0.1337	0.1324
15	64QAM	1	74	22.36	22.62	22.47	0.1276	0.1355	0.1309
15	64QAM	36	0	21.38	21.48	21.47	0.1019	0.1042	0.1040
15	64QAM	36	20	21.43	21.47	21.38	0.1030	0.1040	0.1019
15	64QAM	36	39	21.33	21.45	21.31	0.1007	0.1035	0.1002
15	64QAM	75	0	21.13	21.27	21.14	0.0962	0.0993	0.0964
15	256QAM	1	0	19.43	19.51	19.38	0.0650	0.0662	0.0643
15	256QAM	1	37	19.31	19.43	19.36	0.0632	0.0650	0.0640
15	256QAM	1	74	19.42	19.51	19.43	0.0649	0.0662	0.0650
15	256QAM	36	0	19.29	19.26	19.35	0.0630	0.0625	0.0638
15	256QAM	36	20	19.19	19.36	19.17	0.0615	0.0640	0.0612
15	256QAM	36	39	19.25	19.39	19.20	0.0624	0.0644	0.0617
15	256QAM	75	0	19.20	19.50	19.30	0.0617	0.0661	0.0631
Channel				39700	40620	41540	EIRP(W)		
Frequency (MHz)				2501	2593	2685	L	M	H
10	QPSK	1	0	24.50	24.54	24.54	0.2089	0.2109	0.2109
10	QPSK	1	25	24.40	24.47	24.38	0.2042	0.2075	0.2032
10	QPSK	1	49	24.33	24.54	24.37	0.2009	0.2109	0.2028
10	QPSK	25	0	23.46	23.44	23.43	0.1644	0.1637	0.1633
10	QPSK	25	12	23.33	23.30	23.29	0.1596	0.1585	0.1581
10	QPSK	25	25	23.30	23.33	23.27	0.1585	0.1596	0.1574
10	QPSK	50	0	23.38	23.44	23.34	0.1614	0.1637	0.1600
10	16QAM	1	0	23.61	23.72	23.61	0.1702	0.1746	0.1702
10	16QAM	1	25	23.64	23.91	23.74	0.1714	0.1824	0.1754
10	16QAM	1	49	23.73	23.79	23.76	0.1750	0.1774	0.1762
10	16QAM	25	0	22.23	22.42	22.22	0.1239	0.1294	0.1236
10	16QAM	25	12	22.21	22.48	22.23	0.1233	0.1312	0.1239
10	16QAM	25	25	22.35	22.38	22.37	0.1274	0.1282	0.1279
10	16QAM	50	0	22.30	22.33	22.29	0.1259	0.1268	0.1256
10	64QAM	1	0	22.42	22.54	22.50	0.1294	0.1330	0.1318
10	64QAM	1	25	22.60	22.49	22.51	0.1349	0.1315	0.1321
10	64QAM	1	49	22.40	22.65	22.35	0.1288	0.1365	0.1274
10	64QAM	25	0	21.41	21.49	21.43	0.1026	0.1045	0.1030
10	64QAM	25	12	21.43	21.41	21.40	0.1030	0.1026	0.1023
10	64QAM	25	25	21.37	21.38	21.38	0.1016	0.1019	0.1019
10	64QAM	50	0	21.20	21.36	21.16	0.0977	0.1014	0.0968
10	256QAM	1	0	19.38	19.51	19.36	0.0643	0.0662	0.0640
10	256QAM	1	25	19.26	19.50	19.32	0.0625	0.0661	0.0634
10	256QAM	1	49	19.46	19.41	19.39	0.0655	0.0647	0.0644
10	256QAM	25	0	19.35	19.29	19.25	0.0638	0.0630	0.0624

10	256QAM	25	12	19.12	19.38	19.21	0.0605	0.0643	0.0618
10	256QAM	25	25	19.19	19.37	19.14	0.0615	0.0641	0.0608
10	256QAM	50	0	19.21	19.42	19.31	0.0618	0.0649	0.0632
Channel				39675	40620	41565	EIRP(W)		
Frequency (MHz)				2498.5	2593	2687.5	L	M	H
5	QPSK	1	0	24.48	24.58	24.51	0.2080	0.2128	0.2094
5	QPSK	1	12	24.41	24.46	24.43	0.2046	0.2070	0.2056
5	QPSK	1	24	24.34	24.52	24.32	0.2014	0.2099	0.2004
5	QPSK	12	0	23.42	23.48	23.38	0.1629	0.1652	0.1614
5	QPSK	12	7	23.28	23.36	23.29	0.1578	0.1607	0.1581
5	QPSK	12	13	23.32	23.33	23.22	0.1592	0.1596	0.1556
5	QPSK	25	0	23.33	23.43	23.35	0.1596	0.1633	0.1603
5	16QAM	1	0	23.63	23.74	23.66	0.1710	0.1754	0.1722
5	16QAM	1	12	23.72	23.85	23.63	0.1746	0.1799	0.1710
5	16QAM	1	24	23.78	23.79	23.79	0.1770	0.1774	0.1774
5	16QAM	12	0	22.33	22.38	22.33	0.1268	0.1282	0.1268
5	16QAM	12	7	22.21	22.47	22.16	0.1233	0.1309	0.1219
5	16QAM	12	13	22.32	22.44	22.41	0.1265	0.1300	0.1291
5	16QAM	25	0	22.31	22.40	22.23	0.1262	0.1288	0.1239
5	64QAM	1	0	22.42	22.48	22.46	0.1294	0.1312	0.1306
5	64QAM	1	12	22.54	22.56	22.58	0.1330	0.1337	0.1343
5	64QAM	1	24	22.46	22.70	22.42	0.1306	0.1380	0.1294
5	64QAM	12	0	21.43	21.42	21.42	0.1030	0.1028	0.1028
5	64QAM	12	7	21.44	21.49	21.37	0.1033	0.1045	0.1016
5	64QAM	12	13	21.39	21.41	21.31	0.1021	0.1026	0.1002
5	64QAM	25	0	21.22	21.29	21.21	0.0982	0.0998	0.0979
5	256QAM	1	0	19.38	19.49	19.40	0.0643	0.0659	0.0646
5	256QAM	1	12	19.34	19.51	19.31	0.0637	0.0662	0.0632
5	256QAM	1	24	19.44	19.46	19.44	0.0652	0.0655	0.0652
5	256QAM	12	0	19.34	19.21	19.29	0.0637	0.0618	0.0630
5	256QAM	12	7	19.17	19.30	19.14	0.0612	0.0631	0.0608
5	256QAM	12	13	19.19	19.37	19.25	0.0615	0.0641	0.0624
5	256QAM	25	0	19.26	19.51	19.27	0.0625	0.0662	0.0627

LTE CA_41C_Ant1:

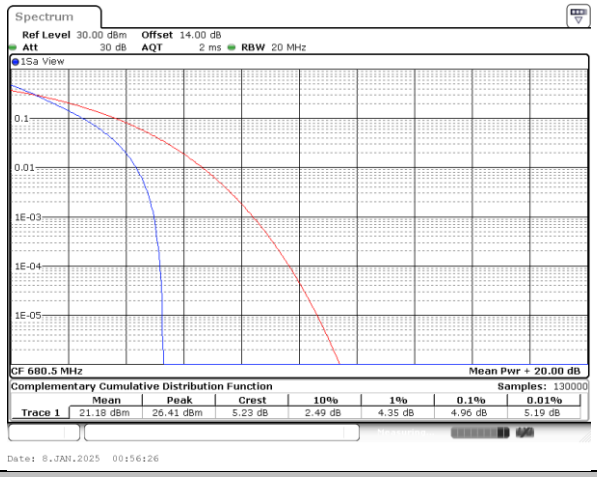
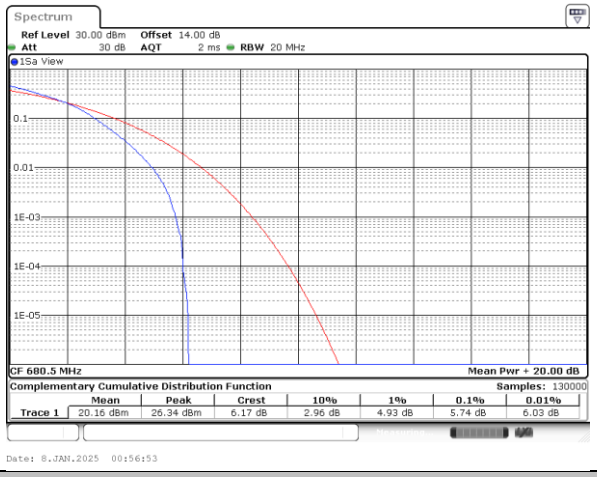
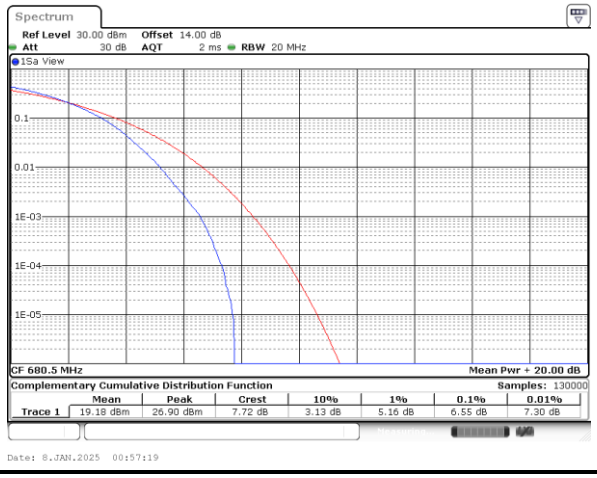
Combination 20MHz+20MHz (100RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	24.45	0.2065
M	QPSK	1	Max	1	0	24.59	0.2133
H	QPSK	1	Max	1	0	24.47	0.2075
L	16QAM	1	Max	1	0	23.49	0.1656
M	16QAM	1	Max	1	0	23.64	0.1714
H	16QAM	1	Max	1	0	23.60	0.1698
L	64QAM	1	Max	1	0	22.30	0.1259
M	64QAM	1	Max	1	0	22.40	0.1288
H	64QAM	1	Max	1	0	22.47	0.1309
L	256QAM	1	Max	1	0	19.36	0.0640
M	256QAM	1	Max	1	0	19.34	0.0637
H	256QAM	1	Max	1	0	19.28	0.0628
Combination 20MHz+15MHz (100RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	24.19	0.1945
M	16QAM	1	Max	1	0	23.29	0.1581
Combination 15MHz+20MHz (75RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	24.13	0.1919
M	16QAM	1	Max	1	0	23.33	0.1596
Combination 15MHz+15MHz (75RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	24.23	0.1963
M	16QAM	1	Max	1	0	23.25	0.1567
Combination 20MHz+10MHz (100RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	24.18	0.1941
M	16QAM	1	Max	1	0	23.34	0.1600
Combination 10MHz+20MHz (50RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	24.25	0.1972
M	16QAM	1	Max	1	0	23.31	0.1589
Combination 15MHz+10MHz (75RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	24.15	0.1928

M	16QAM	1	Max	1	0	23.31	0.1589
Combination 10MHz+15MHz (50RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	24.19	0.1945
M	16QAM	1	Max	1	0	23.29	0.1581
Combination 20MHz+5MHz (100RB+25RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	24.26	0.1977
M	16QAM	1	Max	1	0	23.31	0.1589
Combination 5MHz+20MHz (25RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	24.27	0.1982
M	16QAM	1	Max	1	0	23.38	0.1614

LTE Band 71

Peak-to-Average Ratio

Mode	LTE Band 71 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.19	5.74	6.55	PASS

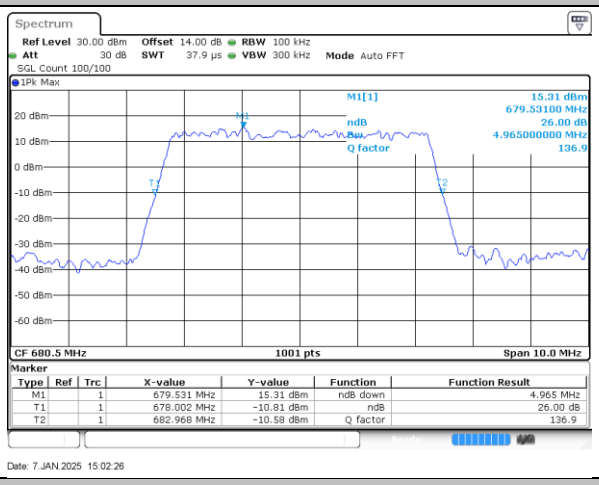
LTE Band 71 / 20MHz / QPSK	LTE Band 71 / 20MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	
LTE Band 71 / 20MHz / 64QAM	
Middle Channel / Full RB	
	

26dB Bandwidth

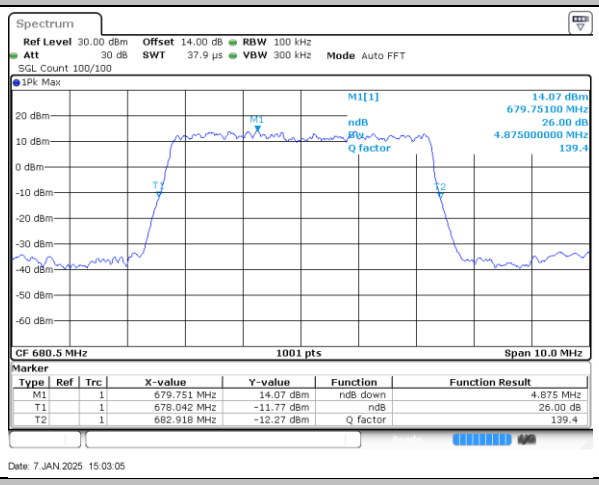
Mode	LTE Band 71 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.97	4.88	9.71	9.91	14.27	14.39	19.06	18.98

LTE Band 71

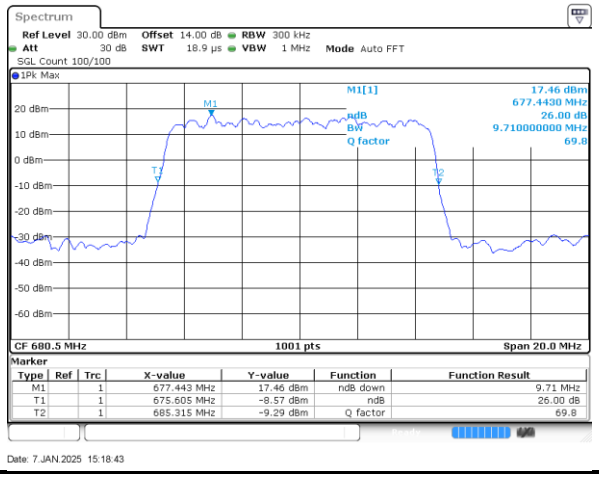
Middle Channel / 5MHz / QPSK



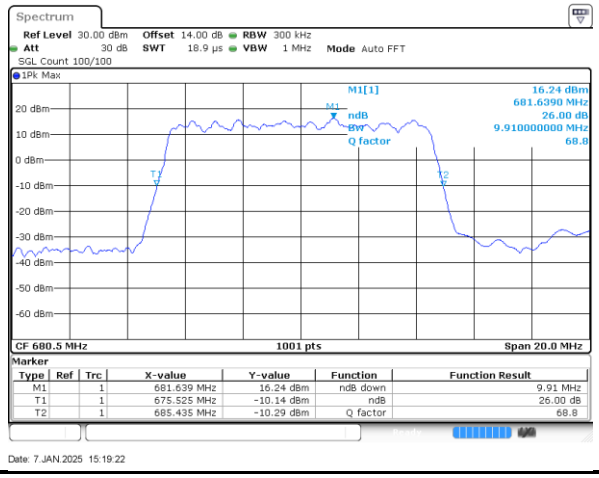
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK

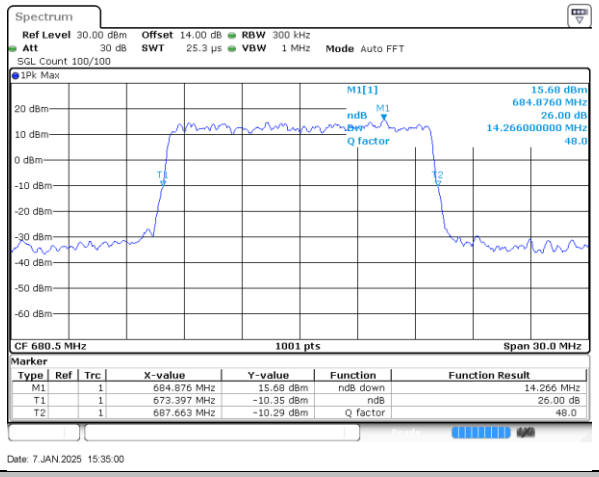


Middle Channel / 10MHz / 16QAM

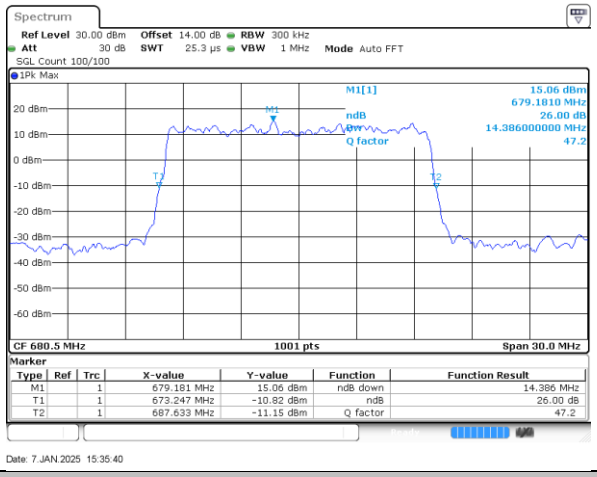


LTE Band 71

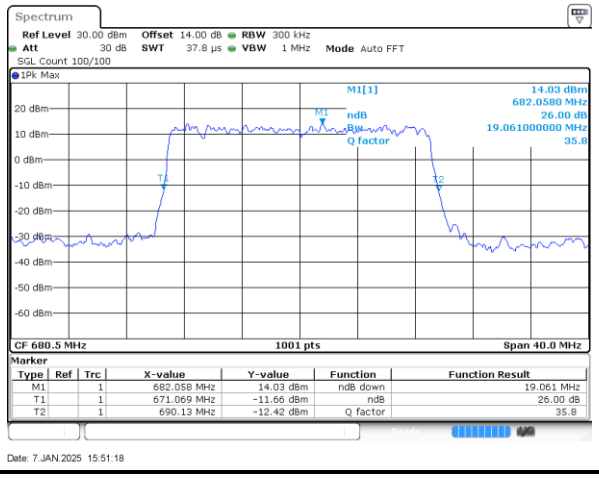
Middle Channel / 15MHz / QPSK



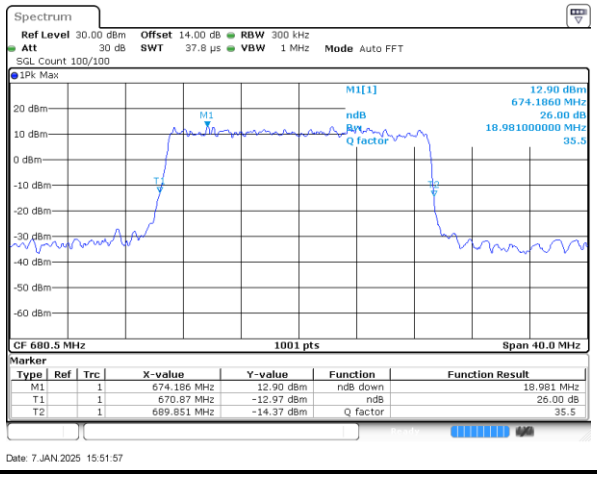
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

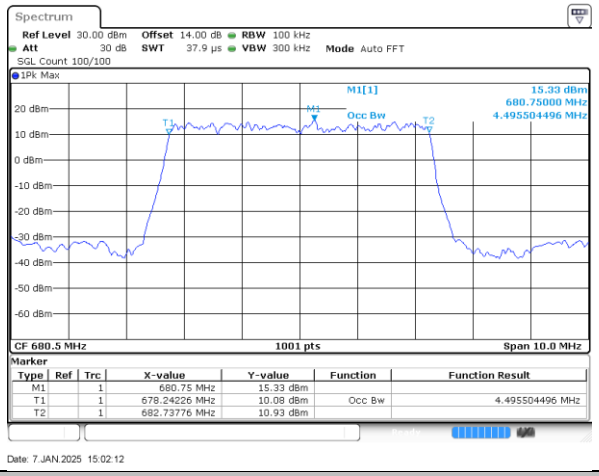


Occupied Bandwidth

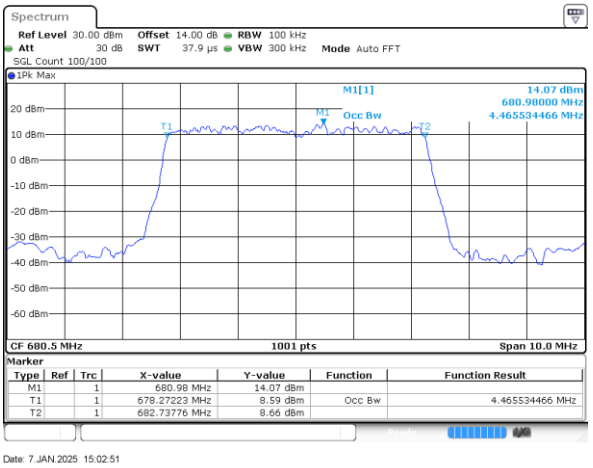
Mode	LTE Band 71 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.50	4.47	9.05	9.03	13.52	13.49	17.90	17.86

LTE Band 71

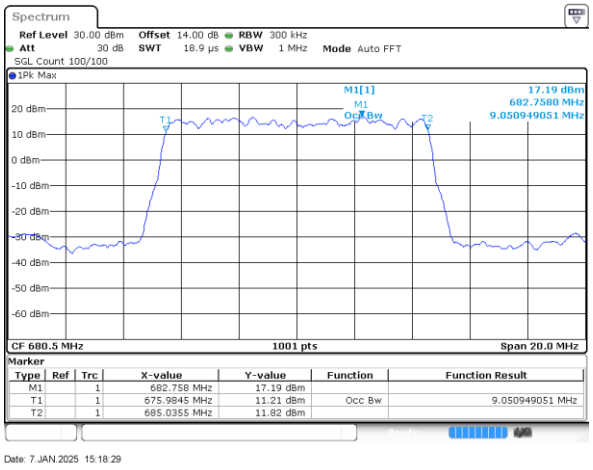
Middle Channel / 5MHz / QPSK



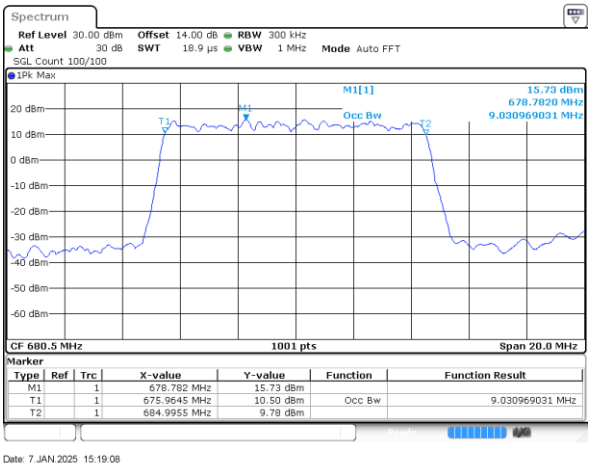
Middle Channel / 5MHz / 16QAM

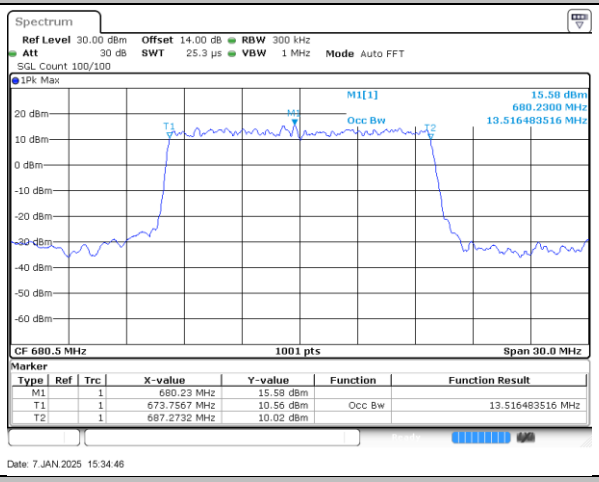
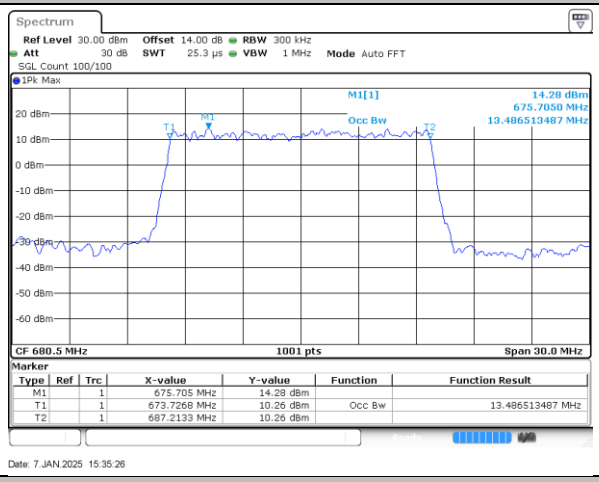
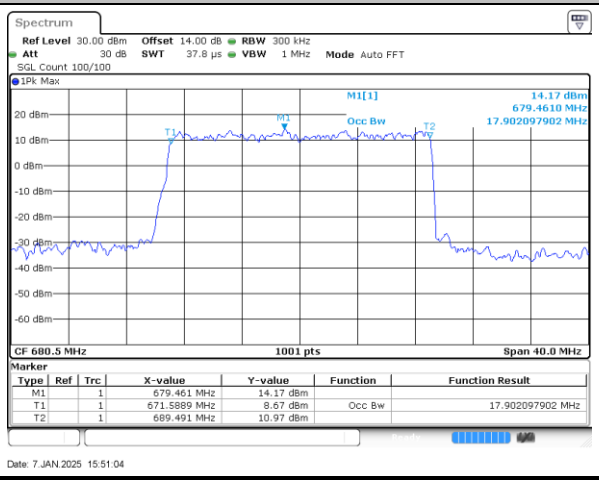
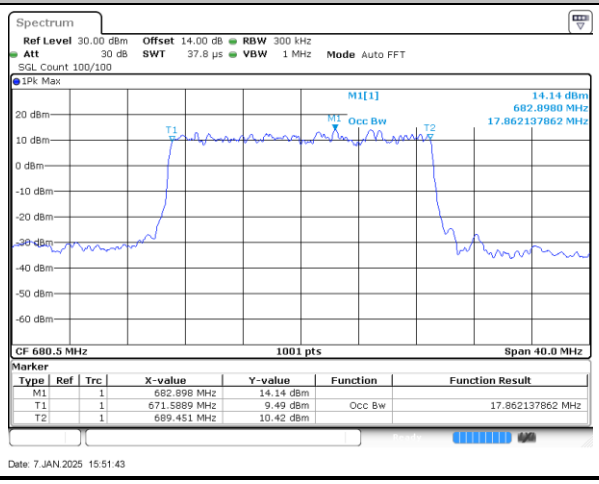


Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

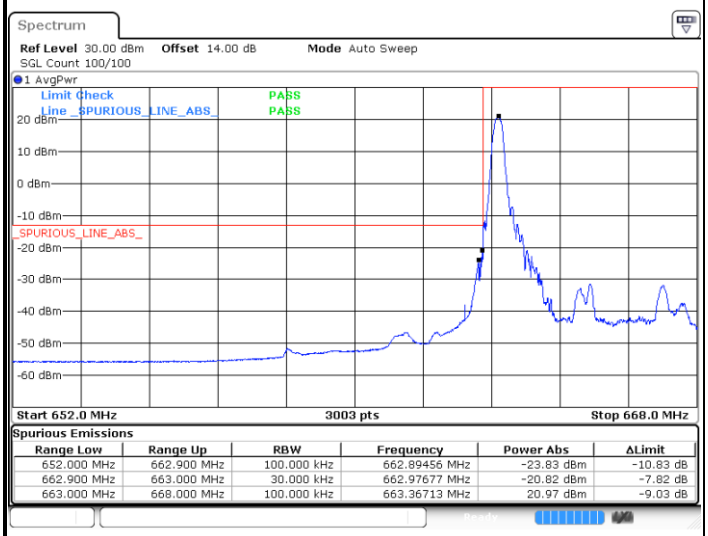


LTE Band 71	
Middle Channel / 15MHz / QPSK	**Middle Channel / 15MHz / 16QAM**
	
Middle Channel / 20MHz / QPSK	**Middle Channel / 20MHz / 16QAM**
	

Conducted Band Edge

LTE Band 71 / 5MHz / QPSK

Lowest Band Edge / 1 RB

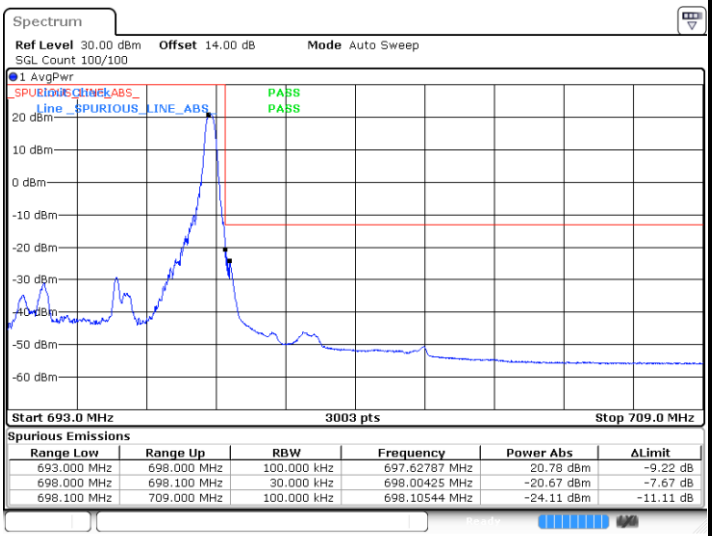


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
652.000 MHz	662.900 MHz	100.000 kHz	662.89456 MHz	-23.83 dBm	-10.83 dB
662.900 MHz	663.000 MHz	30.000 kHz	662.97677 MHz	-20.82 dBm	-7.82 dB
663.000 MHz	668.000 MHz	100.000 kHz	663.36713 MHz	20.97 dBm	-9.03 dB

Date: 7.JAN.2025 14:55:01

Highest Band Edge / 1 RB

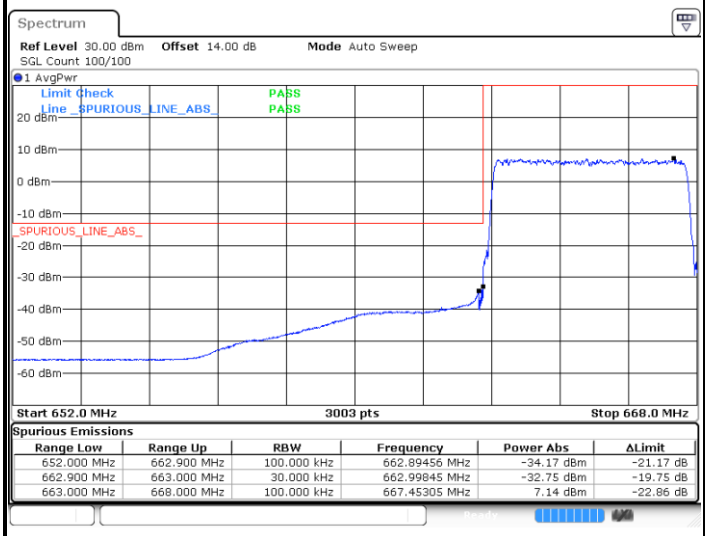


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
693.000 MHz	698.000 MHz	100.000 kHz	697.62787 MHz	20.78 dBm	-9.22 dB
698.000 MHz	698.100 MHz	30.000 kHz	698.00425 MHz	-20.67 dBm	-7.67 dB
698.100 MHz	709.000 MHz	100.000 kHz	698.10544 MHz	-24.11 dBm	-11.11 dB

Date: 7.JAN.2025 15:03:59

Lowest Band Edge / Full RB

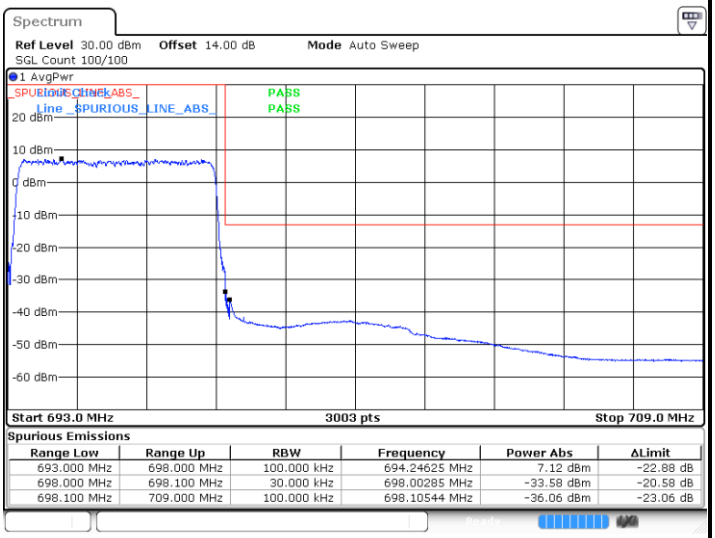


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
652.000 MHz	662.900 MHz	100.000 kHz	662.89456 MHz	-34.17 dBm	-21.17 dB
662.900 MHz	663.000 MHz	30.000 kHz	662.99845 MHz	-32.75 dBm	-19.75 dB
663.000 MHz	668.000 MHz	100.000 kHz	667.45305 MHz	7.14 dBm	-22.86 dB

Date: 7.JAN.2025 14:57:47

Highest Band Edge / Full RB



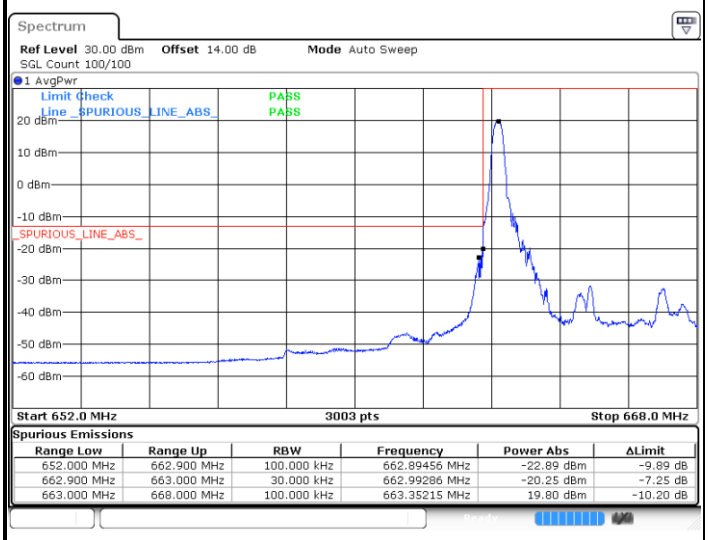
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
693.000 MHz	698.000 MHz	100.000 kHz	694.24625 MHz	7.12 dBm	-22.88 dB
698.000 MHz	698.100 MHz	30.000 kHz	698.00285 MHz	-33.58 dBm	-20.58 dB
698.100 MHz	709.000 MHz	100.000 kHz	698.10544 MHz	-36.06 dBm	-23.06 dB

Date: 7.JAN.2025 15:06:45

LTE Band 71 / 5MHz / 16QAM

Lowest Band Edge / 1RB

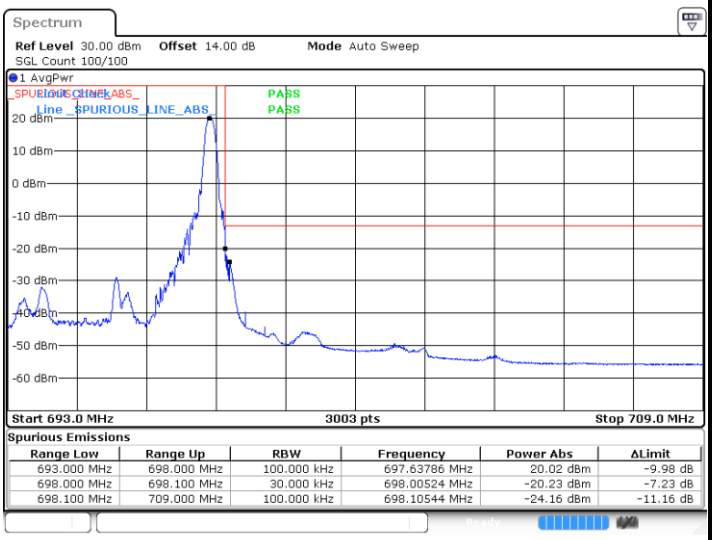


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
652.000 MHz	662.900 MHz	100.000 kHz	662.89456 MHz	-22.89 dBm	-9.89 dB
662.900 MHz	663.000 MHz	30.000 kHz	662.99286 MHz	-20.25 dBm	-7.25 dB
663.000 MHz	668.000 MHz	100.000 kHz	663.35215 MHz	19.80 dBm	-10.20 dB

Date: 7.JAN.2025 14:55:56

Highest Band Edge / 1 RB

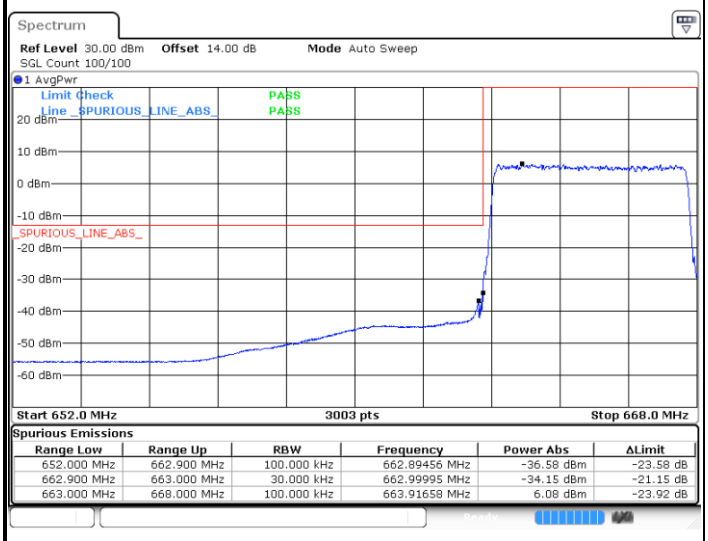


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
693.000 MHz	698.000 MHz	100.000 kHz	697.63786 MHz	20.02 dBm	-9.98 dB
698.000 MHz	698.100 MHz	30.000 kHz	698.00524 MHz	-20.23 dBm	-7.23 dB
698.100 MHz	709.000 MHz	100.000 kHz	698.10544 MHz	-24.16 dBm	-11.16 dB

Date: 7.JAN.2025 15:04:55

Lowest Band Edge / Full RB

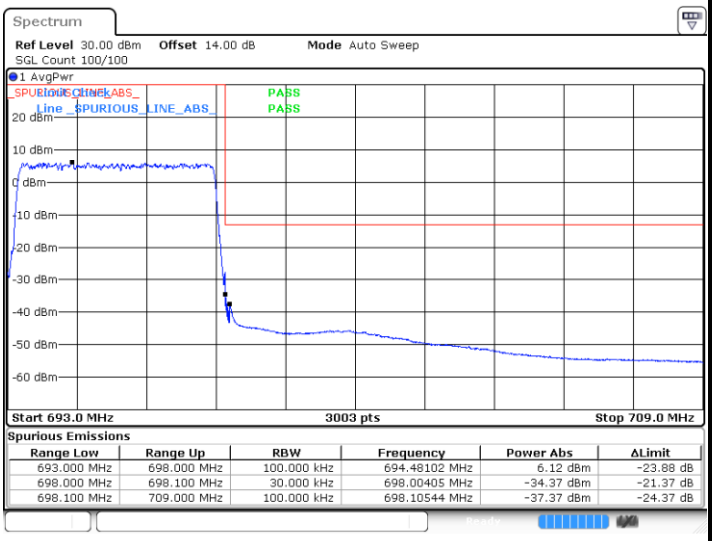


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
652.000 MHz	662.900 MHz	100.000 kHz	662.89456 MHz	-36.58 dBm	-23.58 dB
662.900 MHz	663.000 MHz	30.000 kHz	662.99995 MHz	-34.15 dBm	-21.15 dB
663.000 MHz	668.000 MHz	100.000 kHz	663.91658 MHz	6.08 dBm	-23.92 dB

Date: 7.JAN.2025 14:58:42

Highest Band Edge / Full RB



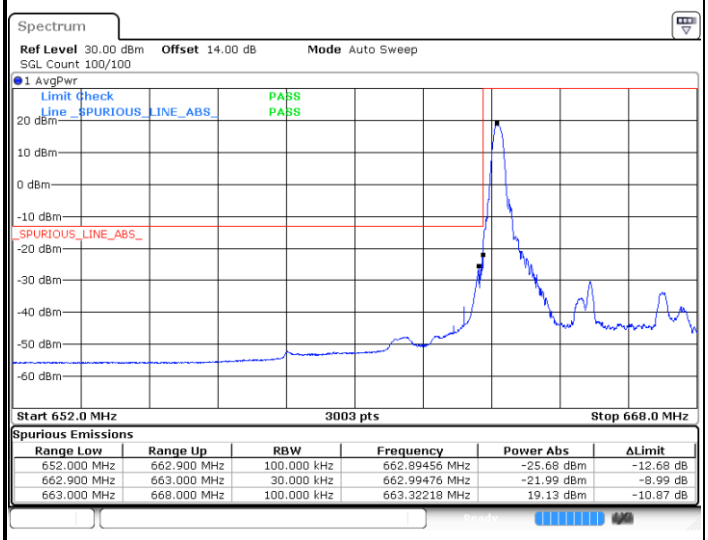
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
693.000 MHz	698.000 MHz	100.000 kHz	694.48102 MHz	6.12 dBm	-23.88 dB
698.000 MHz	698.100 MHz	30.000 kHz	698.00405 MHz	-34.37 dBm	-21.37 dB
698.100 MHz	709.000 MHz	100.000 kHz	698.10544 MHz	-37.37 dBm	-24.37 dB

Date: 7.JAN.2025 15:07:40

LTE Band 71 / 5MHz / 64QAM

Lowest Band Edge / 1RB

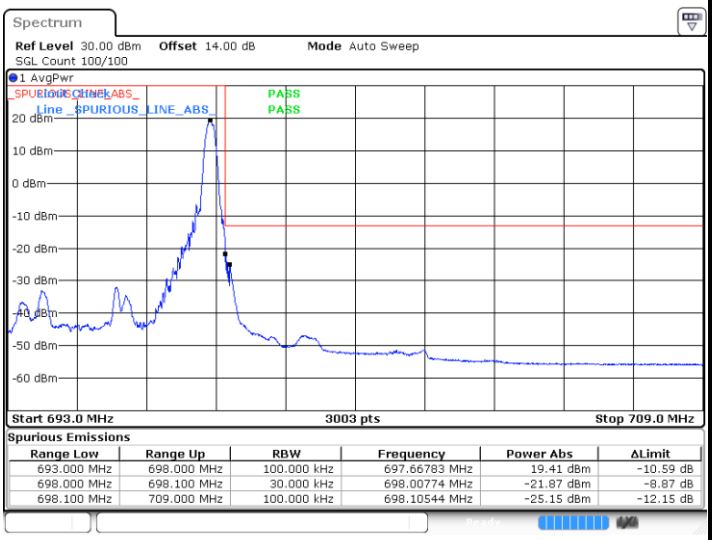


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
652.000 MHz	662.900 MHz	100.000 kHz	662.89456 MHz	-25.68 dBm	-12.68 dB
662.900 MHz	663.000 MHz	30.000 kHz	662.99476 MHz	-21.99 dBm	-8.99 dB
663.000 MHz	668.000 MHz	100.000 kHz	663.32218 MHz	19.13 dBm	-10.87 dB

Date: 7.JAN.2025 14:56:52

Highest Band Edge / 1 RB

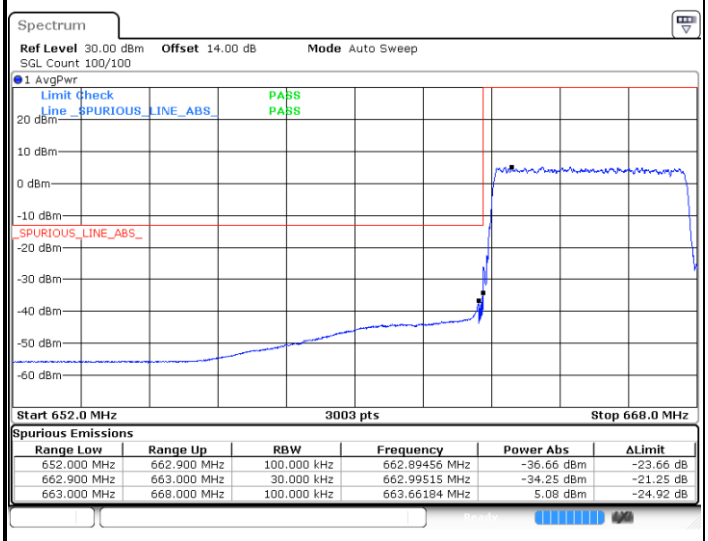


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
693.000 MHz	698.000 MHz	100.000 kHz	697.66783 MHz	19.41 dBm	-10.59 dB
698.000 MHz	698.100 MHz	30.000 kHz	698.00774 MHz	-21.87 dBm	-8.87 dB
698.100 MHz	709.000 MHz	100.000 kHz	698.10544 MHz	-25.15 dBm	-12.15 dB

Date: 7.JAN.2025 15:05:50

Lowest Band Edge / Full RB

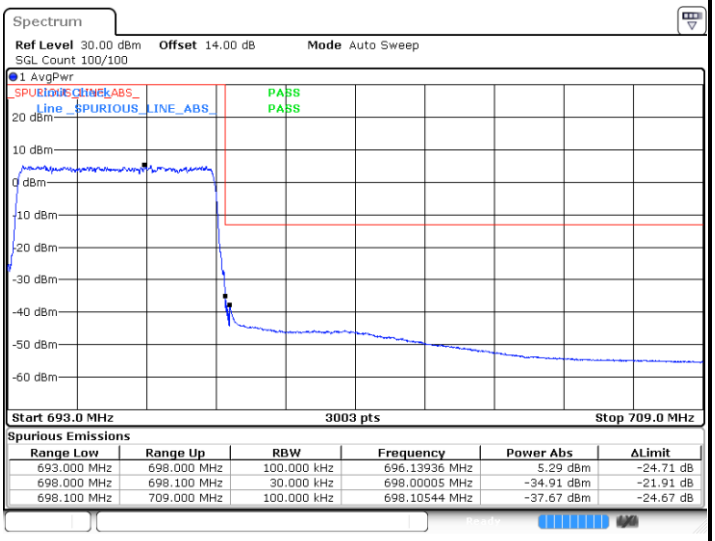


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
652.000 MHz	662.900 MHz	100.000 kHz	662.89456 MHz	-36.66 dBm	-23.66 dB
662.900 MHz	663.000 MHz	30.000 kHz	662.99515 MHz	-34.25 dBm	-21.25 dB
663.000 MHz	668.000 MHz	100.000 kHz	663.66184 MHz	5.08 dBm	-24.92 dB

Date: 7.JAN.2025 14:59:37

Highest Band Edge / Full RB



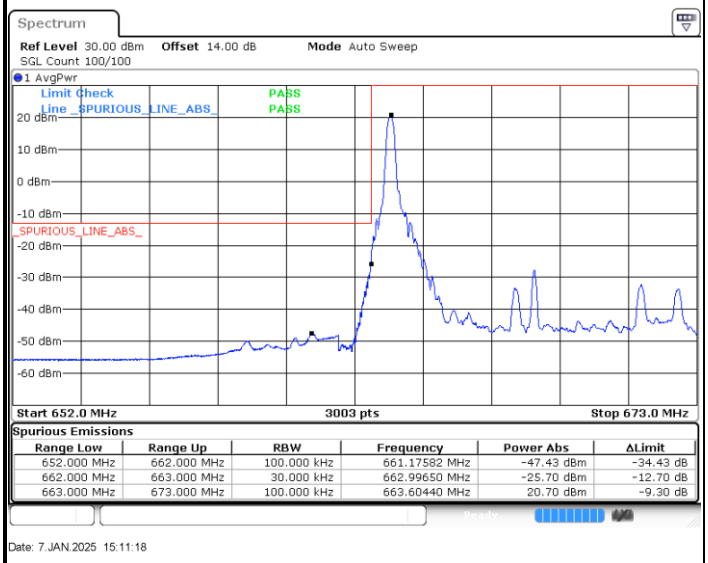
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
693.000 MHz	698.000 MHz	100.000 kHz	696.13936 MHz	5.29 dBm	-24.71 dB
698.000 MHz	698.100 MHz	30.000 kHz	698.00005 MHz	-34.91 dBm	-21.91 dB
698.100 MHz	709.000 MHz	100.000 kHz	698.10544 MHz	-37.67 dBm	-24.67 dB

Date: 7.JAN.2025 15:08:35

LTE Band 71 / 10MHz / QPSK

Lowest Band Edge / 1 RB

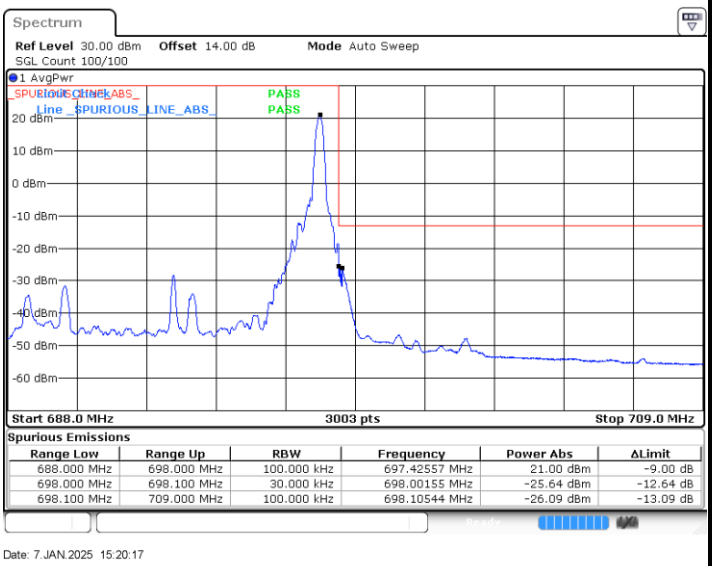


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
652.000 MHz	662.000 MHz	100.000 kHz	661.17582 MHz	-47.43 dBm	-34.43 dB
662.000 MHz	663.000 MHz	30.000 kHz	662.99650 MHz	-25.70 dBm	-12.70 dB
663.000 MHz	673.000 MHz	100.000 kHz	663.60440 MHz	20.70 dBm	-9.30 dB

Date: 7.JAN.2025 15:11:18

Highest Band Edge / 1 RB

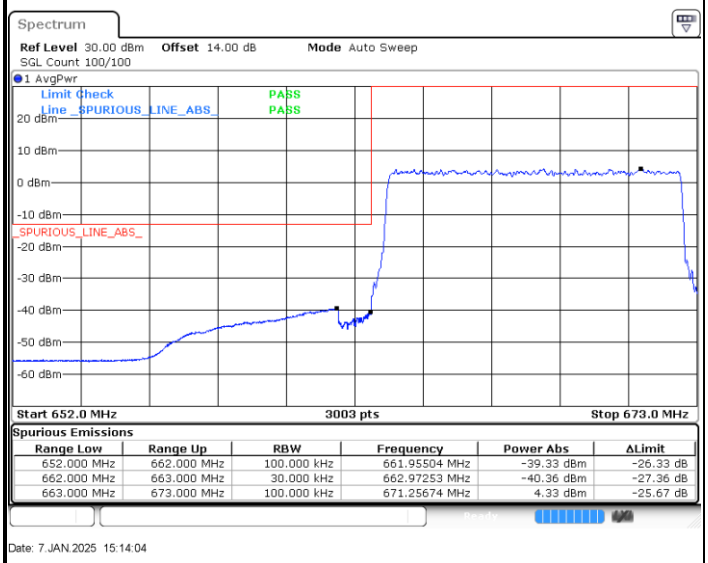


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
688.000 MHz	698.000 MHz	100.000 kHz	697.42557 MHz	21.00 dBm	-9.00 dB
698.000 MHz	698.100 MHz	30.000 kHz	698.00155 MHz	-25.64 dBm	-12.64 dB
698.100 MHz	709.000 MHz	100.000 kHz	698.10544 MHz	-26.09 dBm	-13.09 dB

Date: 7.JAN.2025 15:20:17

Lowest Band Edge / Full RB

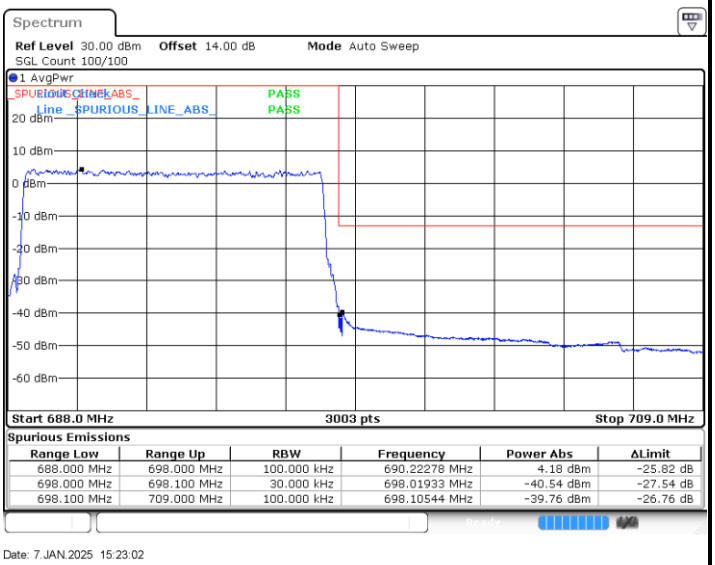


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
652.000 MHz	662.000 MHz	100.000 kHz	661.95504 MHz	-39.33 dBm	-26.33 dB
662.000 MHz	663.000 MHz	30.000 kHz	662.97253 MHz	-40.36 dBm	-27.36 dB
663.000 MHz	673.000 MHz	100.000 kHz	671.25674 MHz	4.33 dBm	-25.67 dB

Date: 7.JAN.2025 15:14:04

Highest Band Edge / Full RB



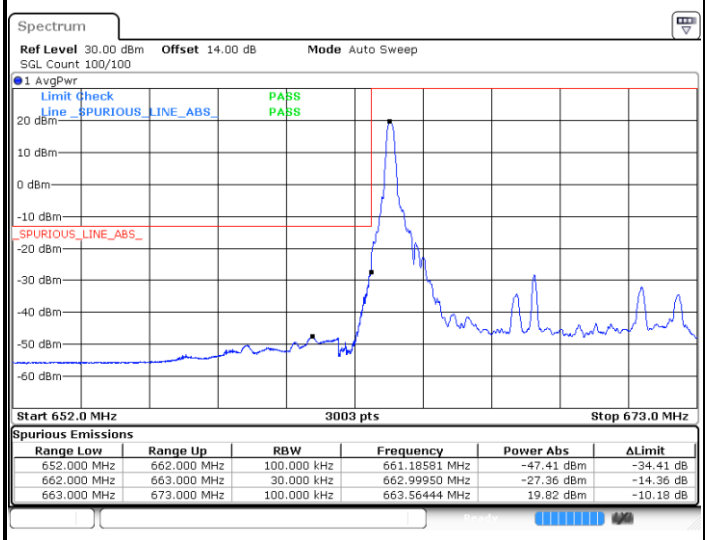
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
688.000 MHz	698.000 MHz	100.000 kHz	690.22278 MHz	4.18 dBm	-25.82 dB
698.000 MHz	698.100 MHz	30.000 kHz	698.01933 MHz	-40.54 dBm	-27.54 dB
698.100 MHz	709.000 MHz	100.000 kHz	698.10544 MHz	-39.76 dBm	-26.76 dB

Date: 7.JAN.2025 15:23:02

LTE Band 71 / 10MHz / 16QAM

Lowest Band Edge / 1RB

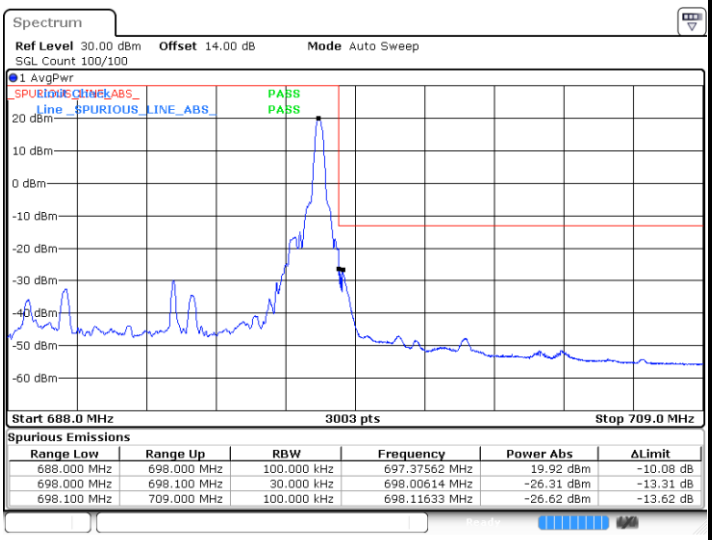


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
652.000 MHz	662.000 MHz	100.000 kHz	661.18581 MHz	-47.41 dBm	-34.41 dB
662.000 MHz	663.000 MHz	30.000 kHz	662.99950 MHz	-27.36 dBm	-14.36 dB
663.000 MHz	673.000 MHz	100.000 kHz	663.56444 MHz	19.82 dBm	-10.18 dB

Date: 7.JAN.2025 15:12:13

Highest Band Edge / 1 RB

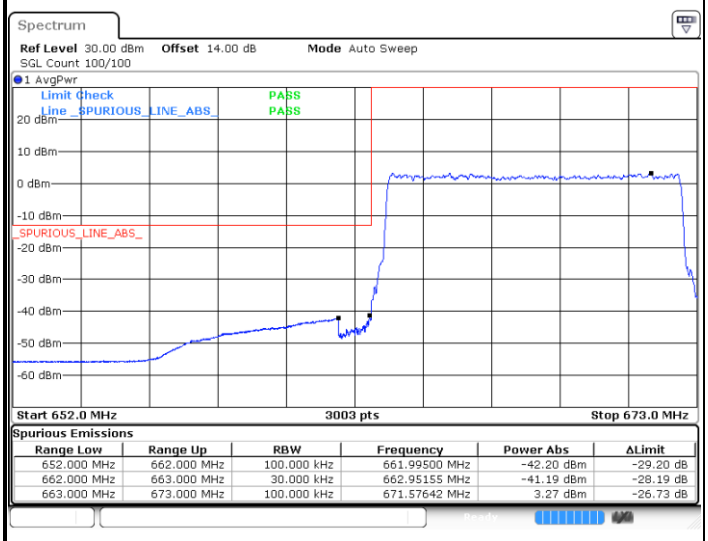


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
688.000 MHz	698.000 MHz	100.000 kHz	697.37562 MHz	19.92 dBm	-10.08 dB
698.000 MHz	698.100 MHz	30.000 kHz	698.00614 MHz	-26.31 dBm	-13.31 dB
698.100 MHz	709.000 MHz	100.000 kHz	698.11633 MHz	-26.62 dBm	-13.62 dB

Date: 7.JAN.2025 15:21:12

Lowest Band Edge / Full RB

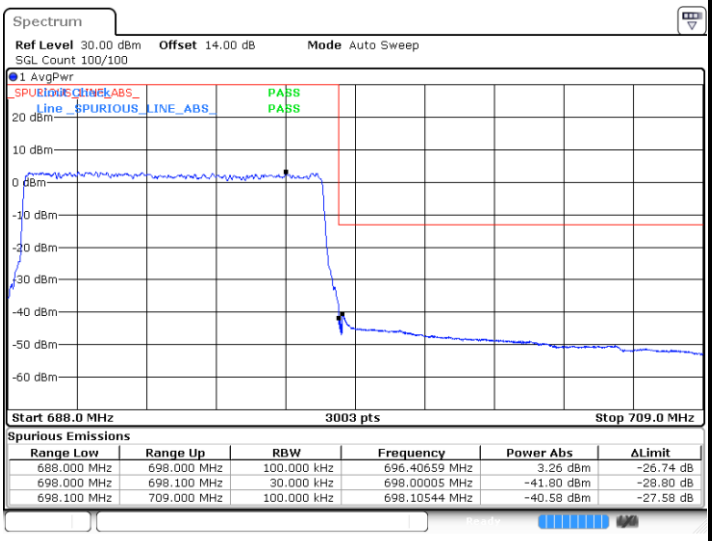


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
652.000 MHz	662.000 MHz	100.000 kHz	661.99500 MHz	-42.20 dBm	-29.20 dB
662.000 MHz	663.000 MHz	30.000 kHz	662.95155 MHz	-41.19 dBm	-28.19 dB
663.000 MHz	673.000 MHz	100.000 kHz	671.57642 MHz	3.27 dBm	-26.73 dB

Date: 7.JAN.2025 15:14:59

Highest Band Edge / Full RB



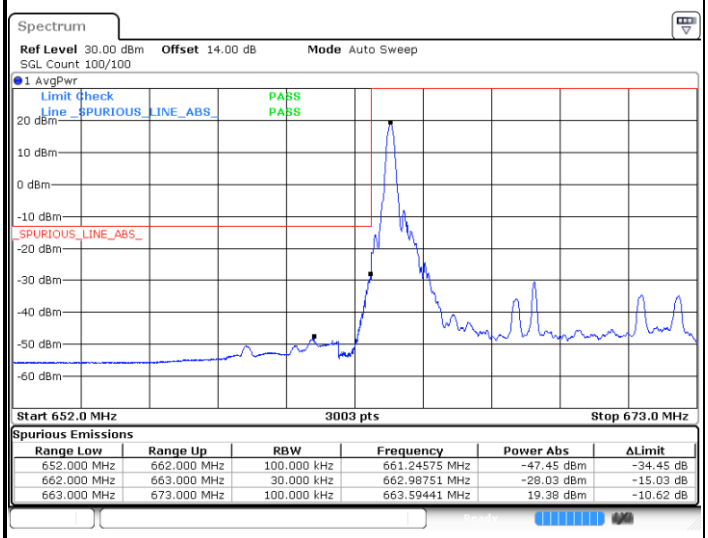
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
688.000 MHz	698.000 MHz	100.000 kHz	696.40659 MHz	3.26 dBm	-26.74 dB
698.000 MHz	698.100 MHz	30.000 kHz	698.00005 MHz	-41.80 dBm	-28.80 dB
698.100 MHz	709.000 MHz	100.000 kHz	698.10544 MHz	-40.58 dBm	-27.58 dB

Date: 7.JAN.2025 15:23:58

LTE Band 71 / 10MHz / 64QAM

Lowest Band Edge / 1RB

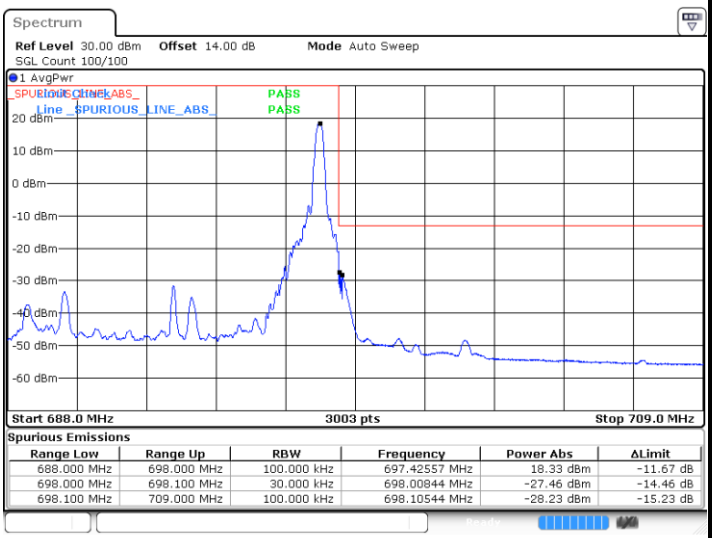


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
652.000 MHz	662.000 MHz	100.000 kHz	661.24575 MHz	-47.45 dBm	-34.45 dB
662.000 MHz	663.000 MHz	30.000 kHz	662.98751 MHz	-28.03 dBm	-15.03 dB
663.000 MHz	673.000 MHz	100.000 kHz	663.59441 MHz	19.38 dBm	-10.62 dB

Date: 7.JAN.2025 15:13:08

Highest Band Edge / 1 RB

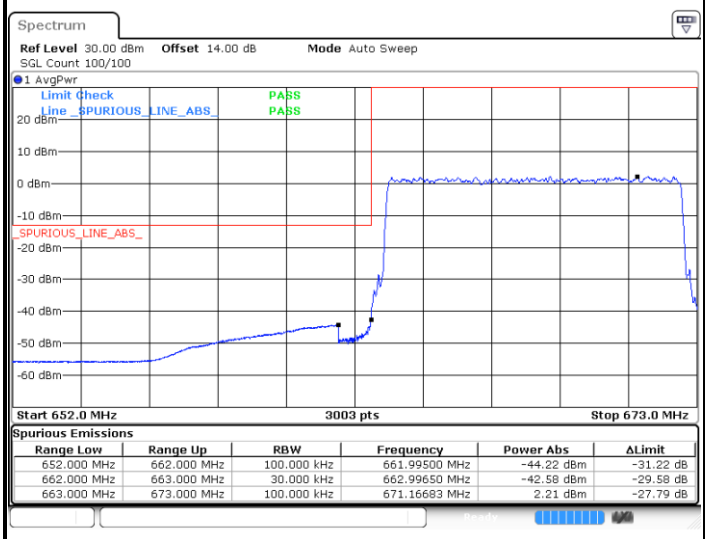


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
688.000 MHz	698.000 MHz	100.000 kHz	697.42557 MHz	18.33 dBm	-11.67 dB
698.000 MHz	698.100 MHz	30.000 kHz	698.00844 MHz	-27.46 dBm	-14.46 dB
698.100 MHz	709.000 MHz	100.000 kHz	698.10544 MHz	-28.23 dBm	-15.23 dB

Date: 7.JAN.2025 15:22:07

Lowest Band Edge / Full RB

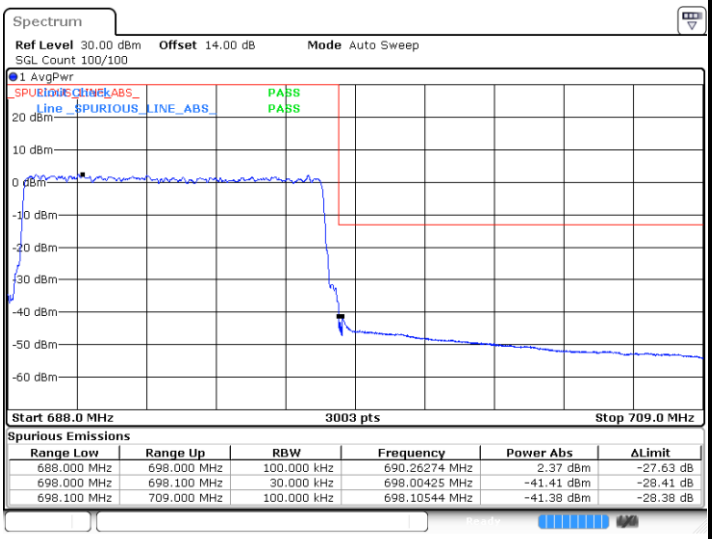


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
652.000 MHz	662.000 MHz	100.000 kHz	661.99500 MHz	-44.22 dBm	-31.22 dB
662.000 MHz	663.000 MHz	30.000 kHz	662.99650 MHz	-42.58 dBm	-29.58 dB
663.000 MHz	673.000 MHz	100.000 kHz	671.16683 MHz	2.21 dBm	-27.79 dB

Date: 7.JAN.2025 15:15:54

Highest Band Edge / Full RB



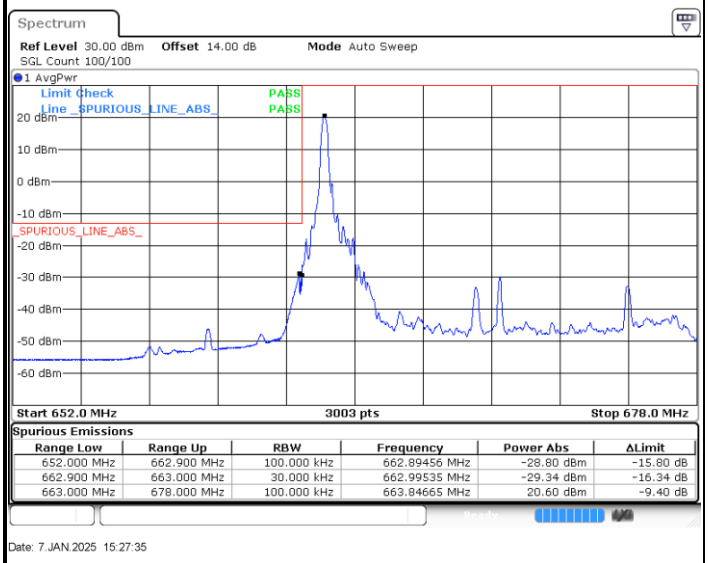
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
688.000 MHz	698.000 MHz	100.000 kHz	690.26274 MHz	2.37 dBm	-27.63 dB
698.000 MHz	698.100 MHz	30.000 kHz	698.00425 MHz	-41.41 dBm	-28.41 dB
698.100 MHz	709.000 MHz	100.000 kHz	698.10544 MHz	-41.38 dBm	-28.38 dB

Date: 7.JAN.2025 15:24:53

LTE Band 71 / 15MHz / QPSK

Lowest Band Edge / 1 RB

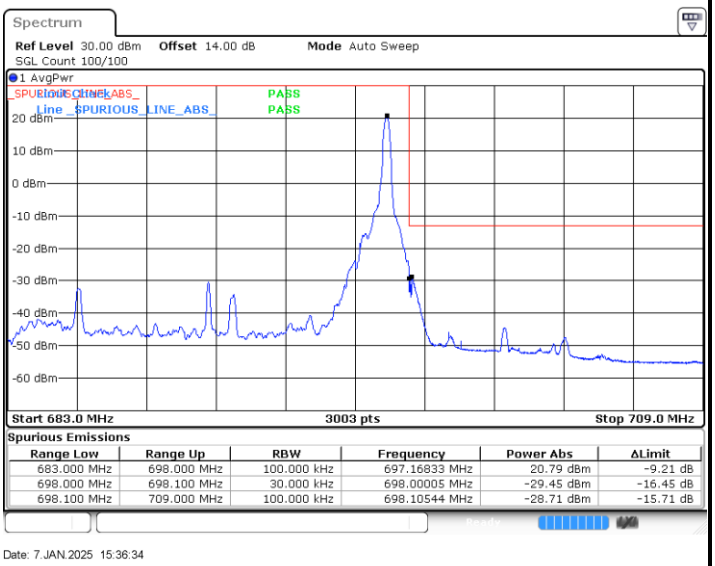


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
652.000 MHz	662.900 MHz	100.000 kHz	662.89456 MHz	-28.80 dBm	-15.80 dB
662.900 MHz	663.000 MHz	30.000 kHz	662.99535 MHz	-29.34 dBm	-16.34 dB
663.000 MHz	678.000 MHz	100.000 kHz	663.84665 MHz	20.60 dBm	-9.40 dB

Date: 7.JAN.2025 15:27:35

Highest Band Edge / 1 RB

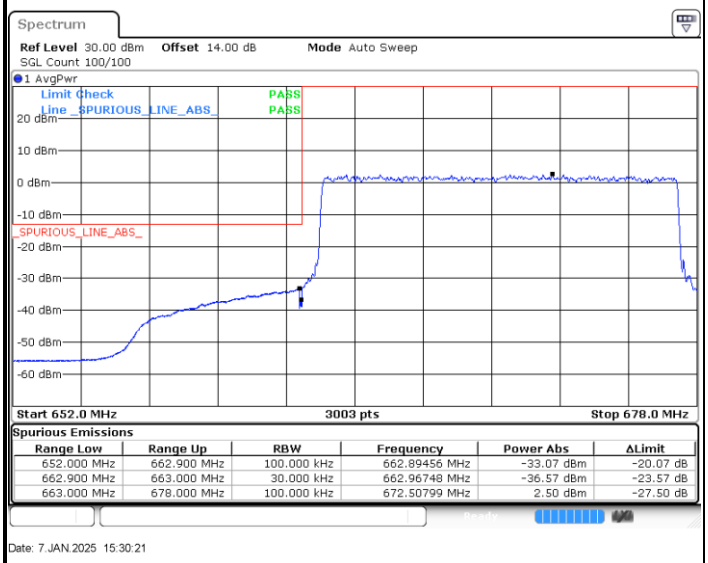


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
683.000 MHz	698.000 MHz	100.000 kHz	697.16833 MHz	20.79 dBm	-9.21 dB
698.000 MHz	698.100 MHz	30.000 kHz	698.00005 MHz	-29.45 dBm	-16.45 dB
698.100 MHz	709.000 MHz	100.000 kHz	698.10544 MHz	-28.71 dBm	-15.71 dB

Date: 7.JAN.2025 15:36:34

Lowest Band Edge / Full RB

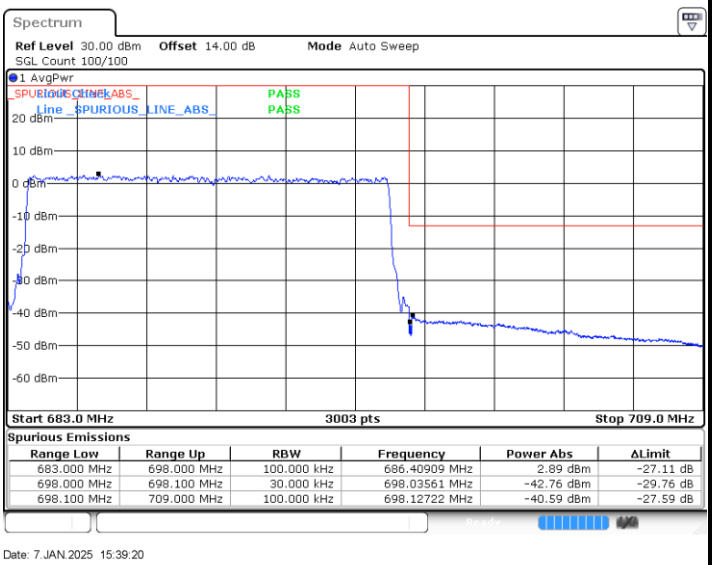


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
652.000 MHz	662.900 MHz	100.000 kHz	662.89456 MHz	-33.07 dBm	-20.07 dB
662.900 MHz	663.000 MHz	30.000 kHz	662.96748 MHz	-36.57 dBm	-23.57 dB
663.000 MHz	678.000 MHz	100.000 kHz	672.50799 MHz	2.50 dBm	-27.50 dB

Date: 7.JAN.2025 15:30:21

Highest Band Edge / Full RB



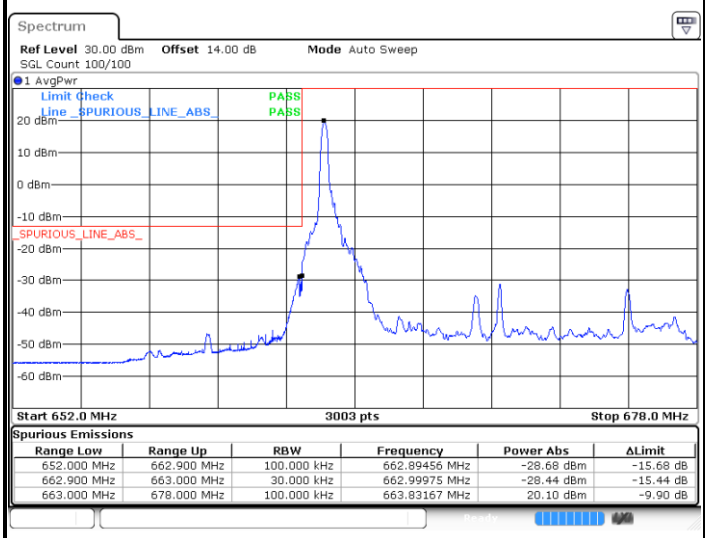
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
683.000 MHz	698.000 MHz	100.000 kHz	686.40909 MHz	2.89 dBm	-27.11 dB
698.000 MHz	698.100 MHz	30.000 kHz	698.03561 MHz	-42.76 dBm	-29.76 dB
698.100 MHz	709.000 MHz	100.000 kHz	698.12722 MHz	-40.59 dBm	-27.59 dB

Date: 7.JAN.2025 15:39:20

LTE Band 71 / 15MHz / 16QAM

Lowest Band Edge / 1RB

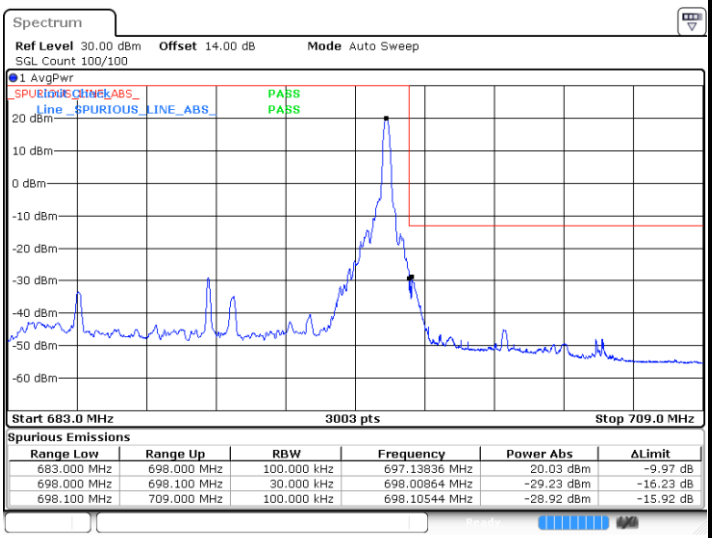


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
652.000 MHz	662.900 MHz	100.000 kHz	662.89456 MHz	-28.68 dBm	-15.68 dB
662.900 MHz	663.000 MHz	30.000 kHz	662.99975 MHz	-28.44 dBm	-15.44 dB
663.000 MHz	678.000 MHz	100.000 kHz	663.83167 MHz	20.10 dBm	-9.90 dB

Date: 7.JAN.2025 15:28:30

Highest Band Edge / 1 RB

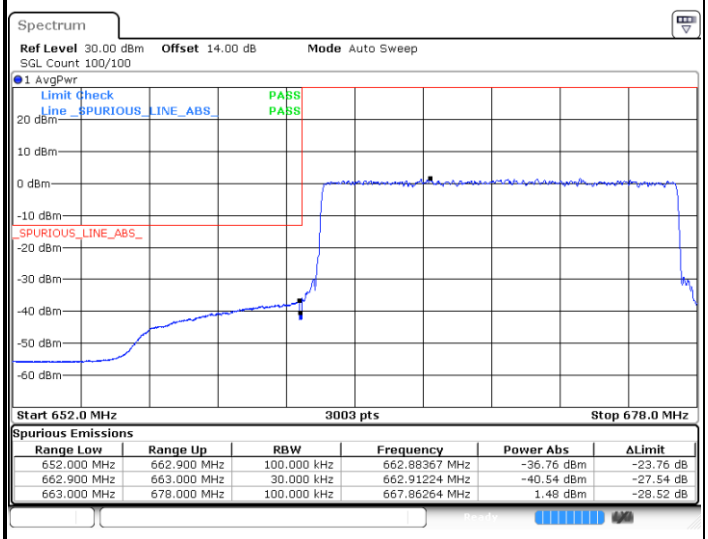


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
683.000 MHz	698.000 MHz	100.000 kHz	697.13836 MHz	20.03 dBm	-9.97 dB
698.000 MHz	698.100 MHz	30.000 kHz	698.00864 MHz	-29.23 dBm	-16.23 dB
698.100 MHz	709.000 MHz	100.000 kHz	698.10544 MHz	-28.92 dBm	-15.92 dB

Date: 7.JAN.2025 15:37:29

Lowest Band Edge / Full RB

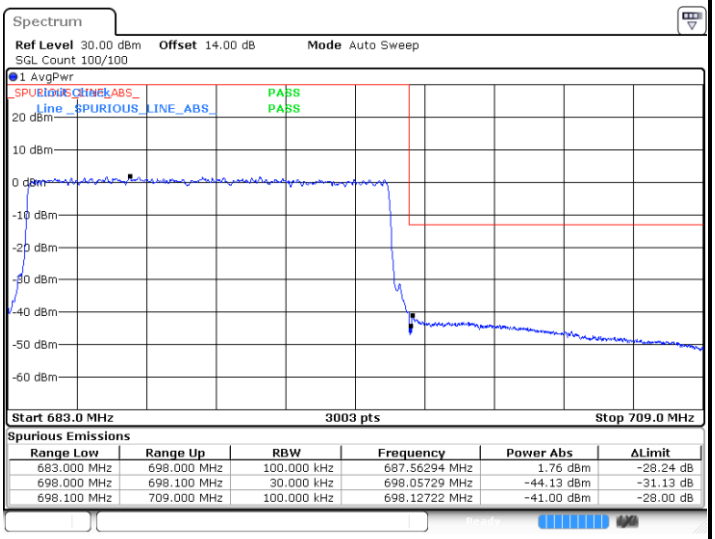


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
652.000 MHz	662.900 MHz	100.000 kHz	662.88367 MHz	-36.76 dBm	-23.76 dB
662.900 MHz	663.000 MHz	30.000 kHz	662.91224 MHz	-40.54 dBm	-27.54 dB
663.000 MHz	678.000 MHz	100.000 kHz	667.86264 MHz	1.48 dBm	-28.52 dB

Date: 7.JAN.2025 15:31:16

Highest Band Edge / Full RB



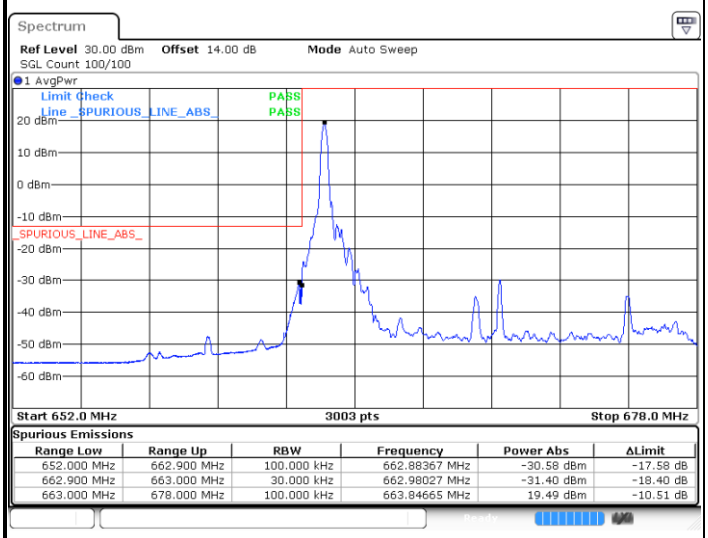
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
683.000 MHz	698.000 MHz	100.000 kHz	687.56294 MHz	1.76 dBm	-28.24 dB
698.000 MHz	698.100 MHz	30.000 kHz	698.05729 MHz	-44.13 dBm	-31.13 dB
698.100 MHz	709.000 MHz	100.000 kHz	698.12722 MHz	-41.00 dBm	-28.00 dB

Date: 7.JAN.2025 15:40:15

LTE Band 71 / 15MHz / 64QAM

Lowest Band Edge / 1RB

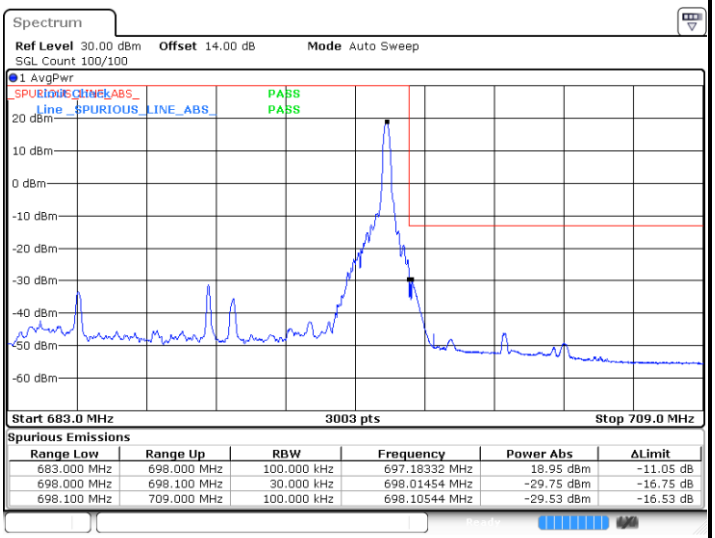


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
652.000 MHz	662.900 MHz	100.000 kHz	662.88367 MHz	-30.58 dBm	-17.58 dB
662.900 MHz	663.000 MHz	30.000 kHz	662.98027 MHz	-31.40 dBm	-18.40 dB
663.000 MHz	678.000 MHz	100.000 kHz	663.84665 MHz	19.49 dBm	-10.51 dB

Date: 7.JAN.2025 15:29:26

Highest Band Edge / 1 RB

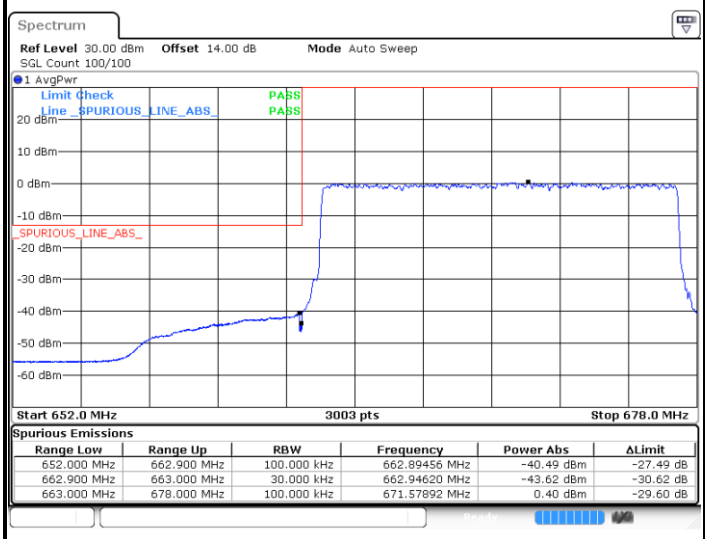


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
683.000 MHz	698.000 MHz	100.000 kHz	697.18332 MHz	18.95 dBm	-11.05 dB
698.000 MHz	698.100 MHz	30.000 kHz	698.01454 MHz	-29.75 dBm	-16.75 dB
698.100 MHz	709.000 MHz	100.000 kHz	698.10544 MHz	-29.53 dBm	-16.53 dB

Date: 7.JAN.2025 15:38:25

Lowest Band Edge / Full RB

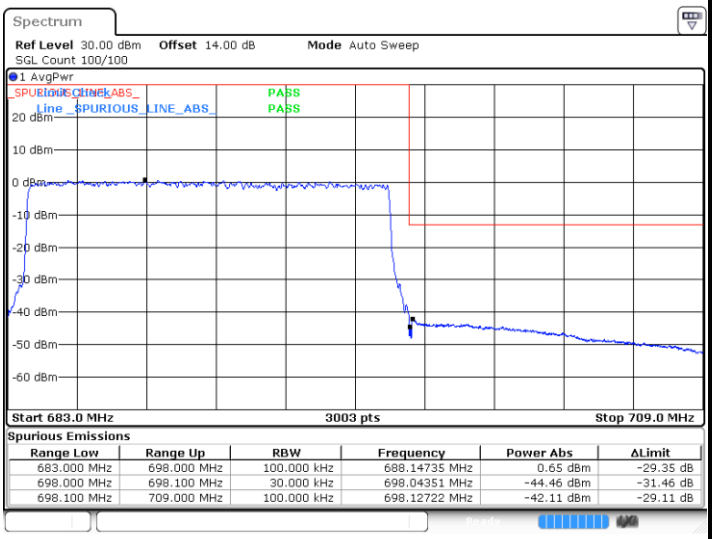


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
652.000 MHz	662.900 MHz	100.000 kHz	662.89456 MHz	-40.49 dBm	-27.49 dB
662.900 MHz	663.000 MHz	30.000 kHz	662.94620 MHz	-43.62 dBm	-30.62 dB
663.000 MHz	678.000 MHz	100.000 kHz	671.57892 MHz	0.40 dBm	-29.60 dB

Date: 7.JAN.2025 15:32:12

Highest Band Edge / Full RB



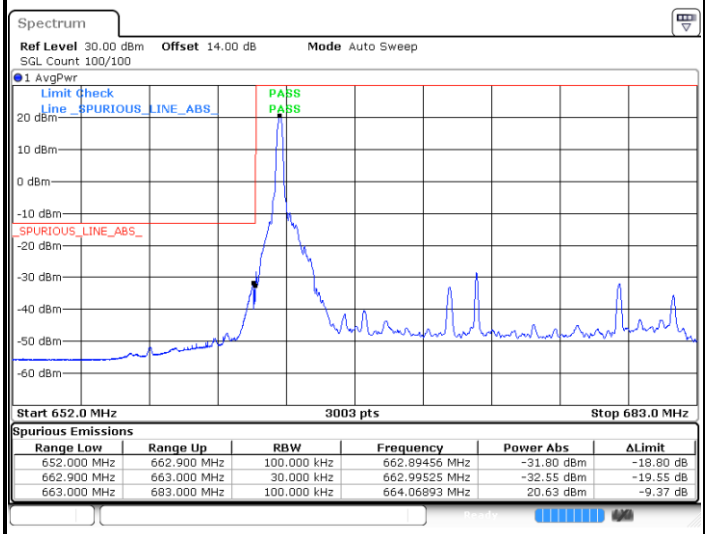
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
683.000 MHz	698.000 MHz	100.000 kHz	688.14735 MHz	0.65 dBm	-29.35 dB
698.000 MHz	698.100 MHz	30.000 kHz	698.04351 MHz	-44.46 dBm	-31.46 dB
698.100 MHz	709.000 MHz	100.000 kHz	698.12722 MHz	-42.11 dBm	-29.11 dB

Date: 7.JAN.2025 15:41:11

LTE Band 71 / 20MHz / QPSK

Lowest Band Edge / 1 RB

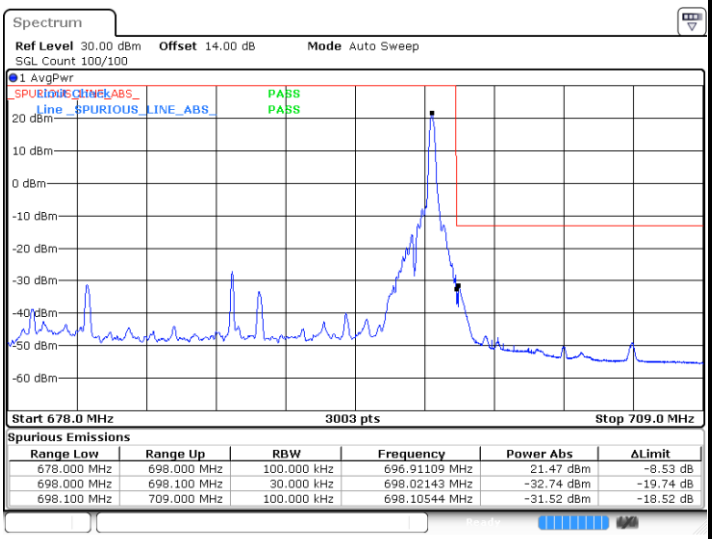


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
652.000 MHz	662.900 MHz	100.000 kHz	662.89456 MHz	-31.80 dBm	-18.80 dB
662.900 MHz	663.000 MHz	30.000 kHz	662.99525 MHz	-32.55 dBm	-19.55 dB
663.000 MHz	683.000 MHz	100.000 kHz	664.06893 MHz	20.63 dBm	-9.37 dB

Date: 7.JAN.2025 15:43:53

Highest Band Edge / 1 RB

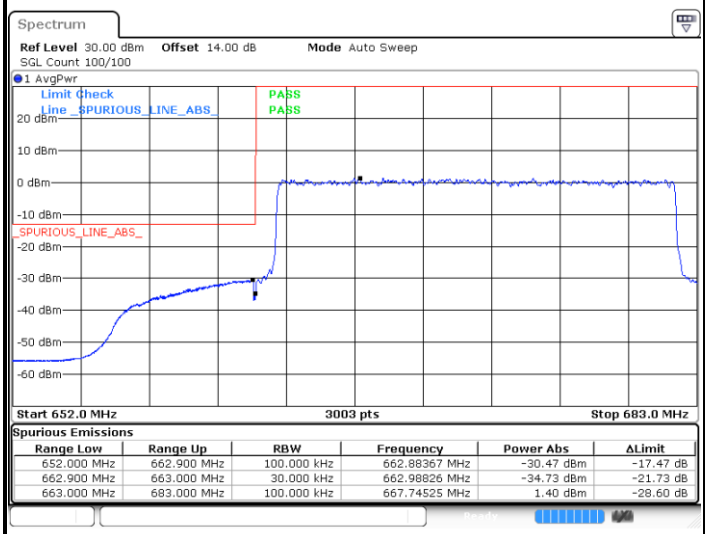


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
678.000 MHz	698.000 MHz	100.000 kHz	696.91109 MHz	21.47 dBm	-8.53 dB
698.000 MHz	698.100 MHz	30.000 kHz	698.02143 MHz	-32.74 dBm	-19.74 dB
698.100 MHz	709.000 MHz	100.000 kHz	698.10544 MHz	-31.52 dBm	-18.52 dB

Date: 7.JAN.2025 15:54:12

Lowest Band Edge / Full RB

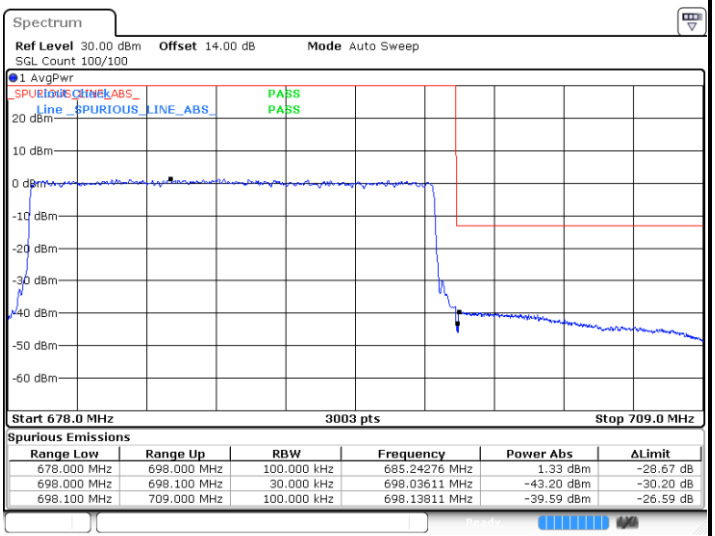


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
652.000 MHz	662.900 MHz	100.000 kHz	662.88367 MHz	-30.47 dBm	-17.47 dB
662.900 MHz	663.000 MHz	30.000 kHz	662.98826 MHz	-34.73 dBm	-21.73 dB
663.000 MHz	683.000 MHz	100.000 kHz	667.74525 MHz	1.40 dBm	-28.60 dB

Date: 7.JAN.2025 15:46:39

Highest Band Edge / Full RB



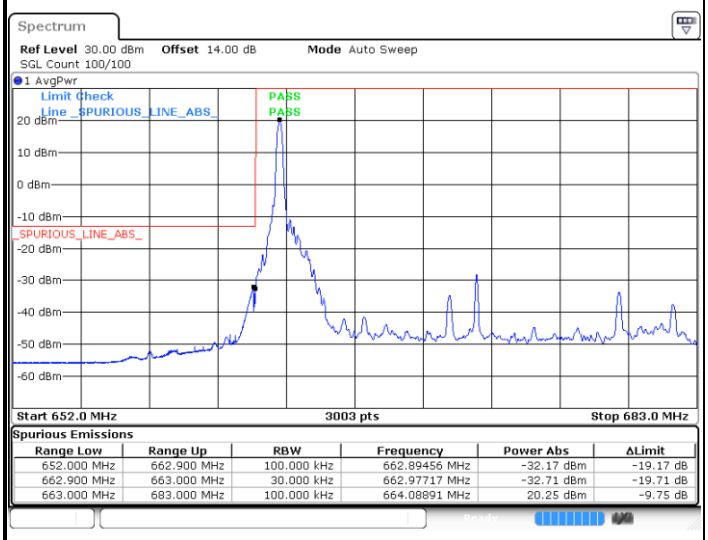
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
678.000 MHz	698.000 MHz	100.000 kHz	685.24276 MHz	1.33 dBm	-28.67 dB
698.000 MHz	698.100 MHz	30.000 kHz	698.03611 MHz	-43.20 dBm	-30.20 dB
698.100 MHz	709.000 MHz	100.000 kHz	698.13811 MHz	-39.59 dBm	-26.59 dB

Date: 7.JAN.2025 15:56:58

LTE Band 71 / 20MHz / 16QAM

Lowest Band Edge / 1RB

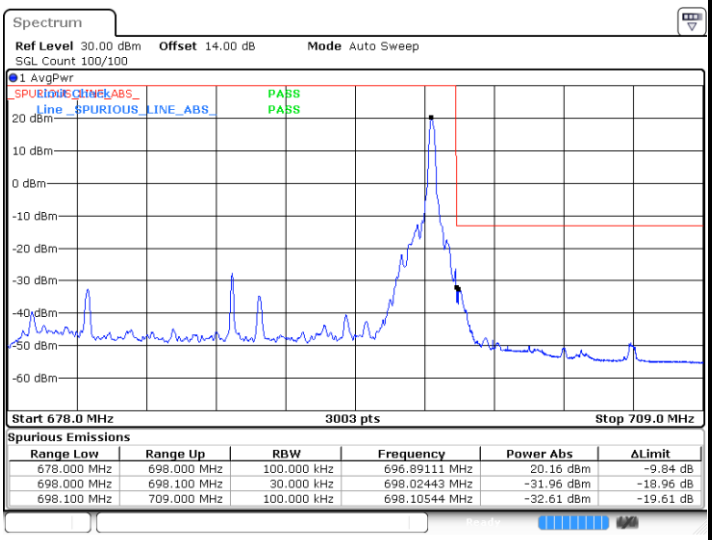


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
652.000 MHz	662.900 MHz	100.000 kHz	662.89456 MHz	-32.17 dBm	-19.17 dB
662.900 MHz	663.000 MHz	30.000 kHz	662.97717 MHz	-32.71 dBm	-19.71 dB
663.000 MHz	683.000 MHz	100.000 kHz	664.08891 MHz	20.25 dBm	-9.75 dB

Date: 7.JAN.2025 15:44:48

Highest Band Edge / 1 RB

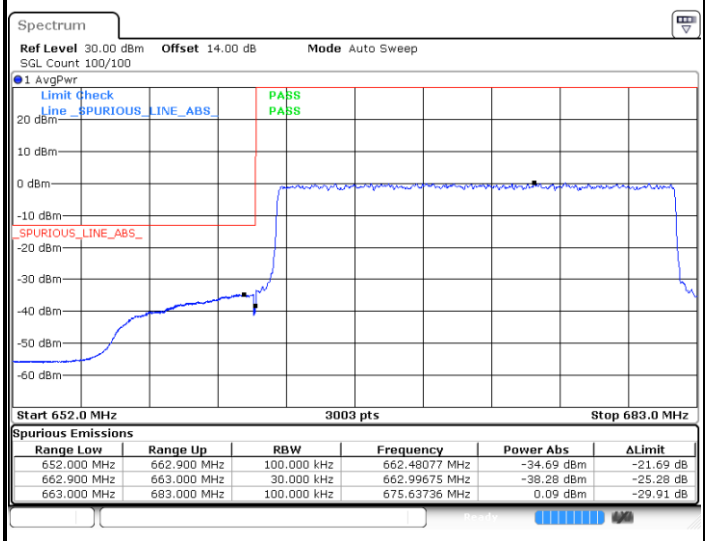


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
678.000 MHz	698.000 MHz	100.000 kHz	696.89111 MHz	20.16 dBm	-9.84 dB
698.000 MHz	698.100 MHz	30.000 kHz	698.02443 MHz	-31.96 dBm	-18.96 dB
698.100 MHz	709.000 MHz	100.000 kHz	698.10544 MHz	-32.61 dBm	-19.61 dB

Date: 7.JAN.2025 15:55:07

Lowest Band Edge / Full RB

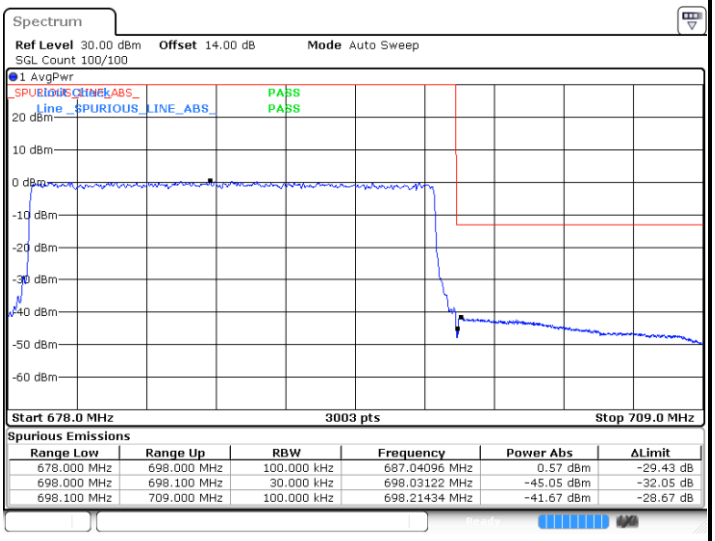


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
652.000 MHz	662.900 MHz	100.000 kHz	662.48077 MHz	-34.69 dBm	-21.69 dB
662.900 MHz	663.000 MHz	30.000 kHz	662.99675 MHz	-38.28 dBm	-25.28 dB
663.000 MHz	683.000 MHz	100.000 kHz	675.63736 MHz	0.09 dBm	-29.91 dB

Date: 7.JAN.2025 15:47:34

Highest Band Edge / Full RB



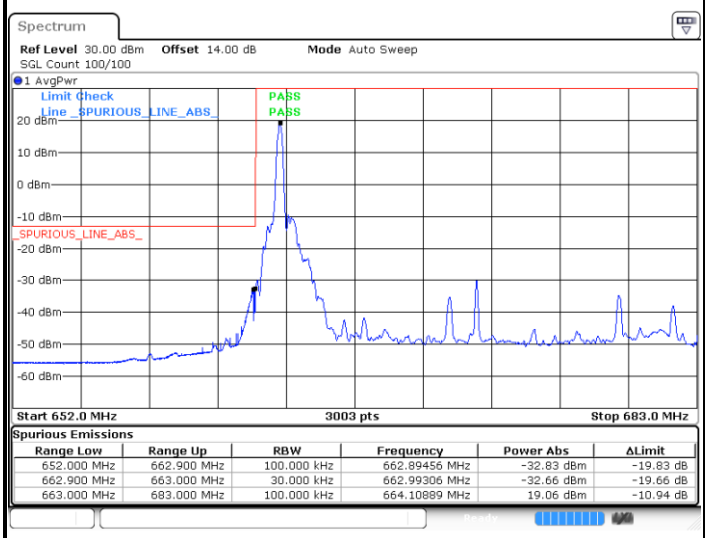
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
678.000 MHz	698.000 MHz	100.000 kHz	687.04096 MHz	0.57 dBm	-29.43 dB
698.000 MHz	698.100 MHz	30.000 kHz	698.03122 MHz	-45.05 dBm	-32.05 dB
698.100 MHz	709.000 MHz	100.000 kHz	698.21434 MHz	-41.67 dBm	-28.67 dB

Date: 7.JAN.2025 15:57:53

LTE Band 71 / 20MHz / 64QAM

Lowest Band Edge / 1RB

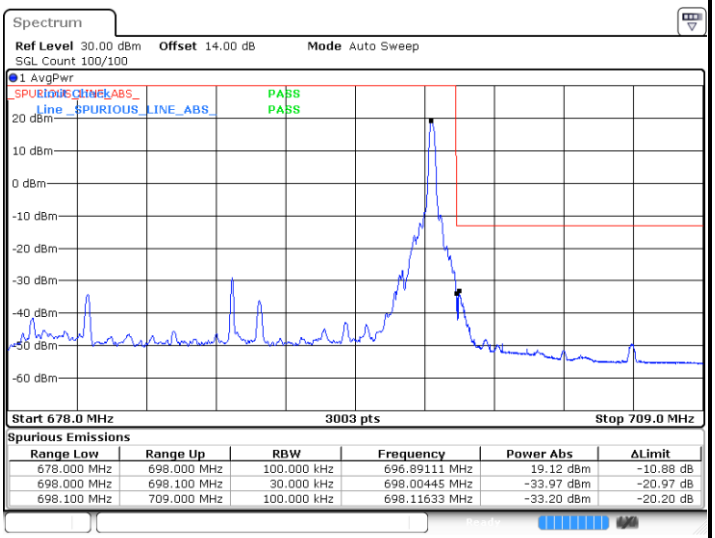


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
652.000 MHz	662.900 MHz	100.000 kHz	662.89456 MHz	-32.83 dBm	-19.83 dB
662.900 MHz	663.000 MHz	30.000 kHz	662.99306 MHz	-32.66 dBm	-19.66 dB
663.000 MHz	683.000 MHz	100.000 kHz	664.10889 MHz	19.06 dBm	-10.94 dB

Date: 7.JAN.2025 15:45:44

Highest Band Edge / 1 RB

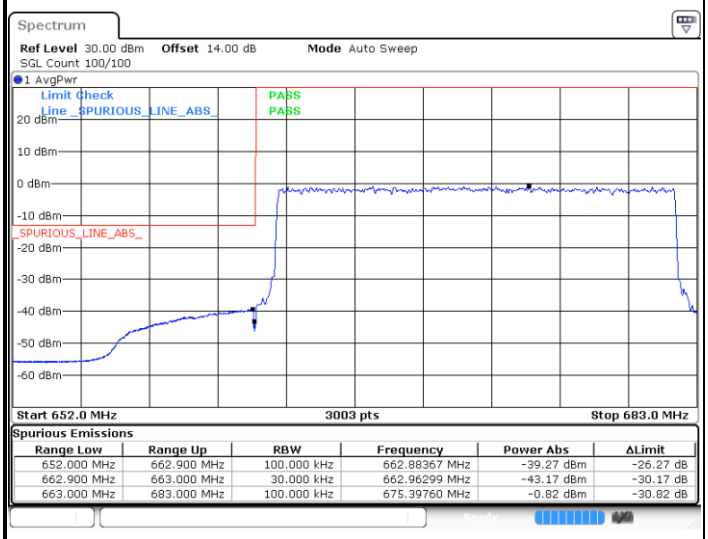


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
678.000 MHz	698.000 MHz	100.000 kHz	696.89111 MHz	19.12 dBm	-10.88 dB
698.000 MHz	698.100 MHz	30.000 kHz	698.00445 MHz	-33.97 dBm	-20.97 dB
698.100 MHz	709.000 MHz	100.000 kHz	698.11633 MHz	-33.20 dBm	-20.20 dB

Date: 7.JAN.2025 15:56:02

Lowest Band Edge / Full RB

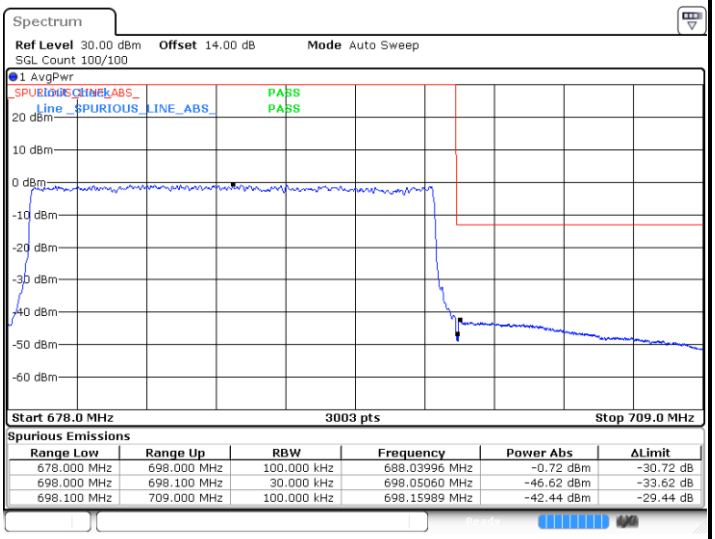


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
652.000 MHz	662.900 MHz	100.000 kHz	662.88367 MHz	-39.27 dBm	-26.27 dB
662.900 MHz	663.000 MHz	30.000 kHz	662.96299 MHz	-43.17 dBm	-30.17 dB
663.000 MHz	683.000 MHz	100.000 kHz	675.39760 MHz	-0.82 dBm	-30.82 dB

Date: 7.JAN.2025 15:48:29

Highest Band Edge / Full RB



Spurious Emissions

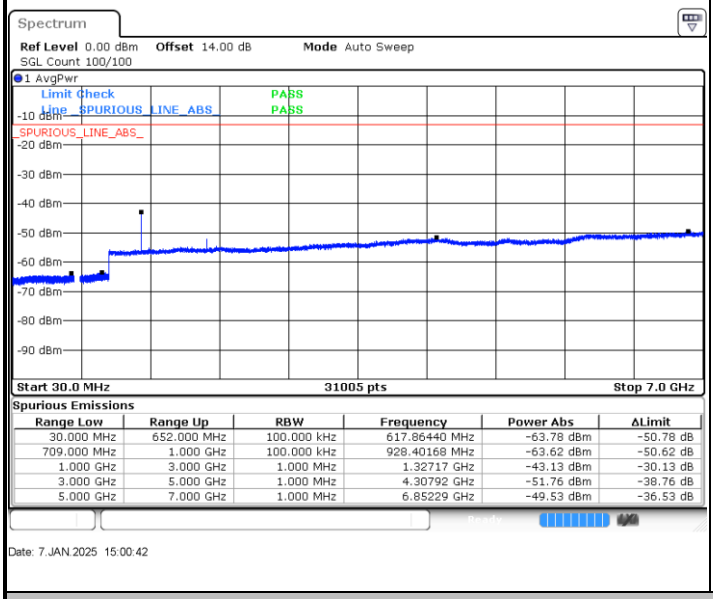
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
678.000 MHz	698.000 MHz	100.000 kHz	688.03996 MHz	-0.72 dBm	-30.72 dB
698.000 MHz	698.100 MHz	30.000 kHz	698.05060 MHz	-46.62 dBm	-33.62 dB
698.100 MHz	709.000 MHz	100.000 kHz	698.15989 MHz	-42.44 dBm	-29.44 dB

Date: 7.JAN.2025 15:58:48

Conducted Spurious Emission

LTE Band 71 / 5MHz

Lowest Channel / QPSK

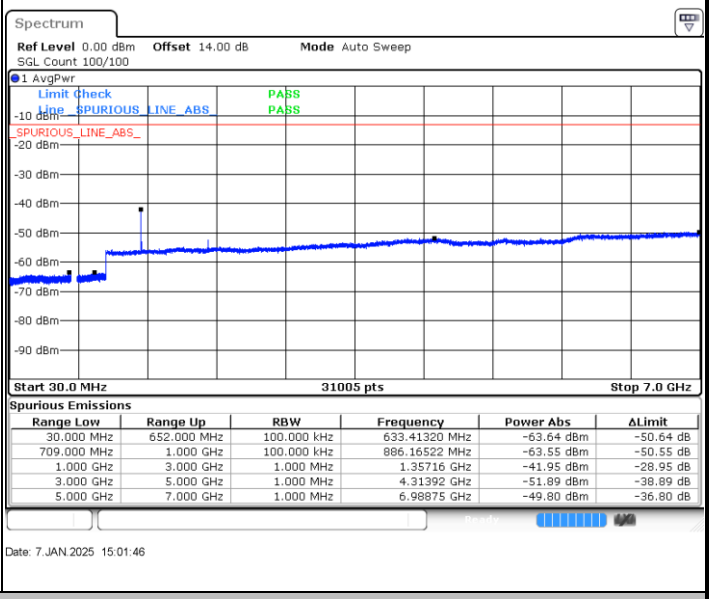


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	652.000 MHz	100.000 kHz	617.86440 MHz	-63.78 dBm	-50.78 dB
709.000 MHz	1.000 GHz	100.000 kHz	928.40168 MHz	-63.62 dBm	-50.62 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.32717 GHz	-43.13 dBm	-30.13 dB
3.000 GHz	5.000 GHz	1.000 MHz	4.30792 GHz	-51.76 dBm	-38.76 dB
5.000 GHz	7.000 GHz	1.000 MHz	6.85229 GHz	-49.53 dBm	-36.53 dB

Date: 7.JAN.2025 15:00:42

Middle Channel / QPSK

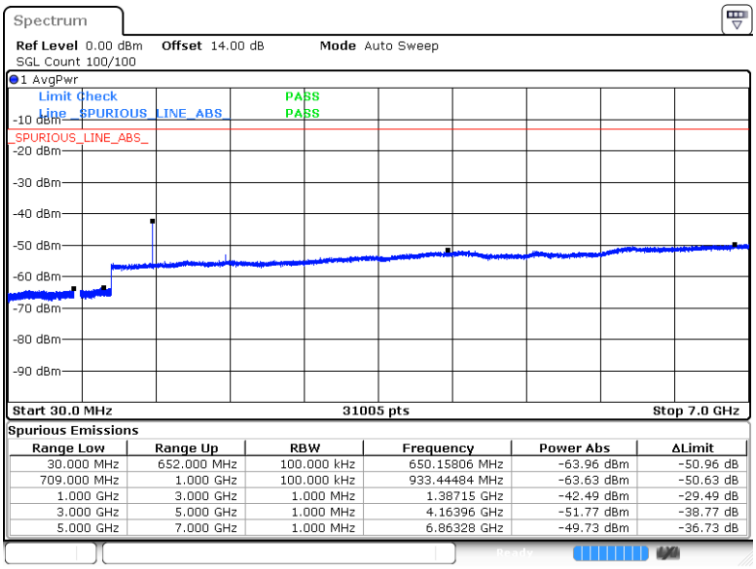


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	652.000 MHz	100.000 kHz	633.41320 MHz	-63.64 dBm	-50.64 dB
709.000 MHz	1.000 GHz	100.000 kHz	886.16522 MHz	-63.55 dBm	-50.55 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.35716 GHz	-41.95 dBm	-28.95 dB
3.000 GHz	5.000 GHz	1.000 MHz	4.31392 GHz	-51.89 dBm	-38.89 dB
5.000 GHz	7.000 GHz	1.000 MHz	6.98875 GHz	-49.80 dBm	-36.80 dB

Date: 7.JAN.2025 15:01:46

Highest Channel / QPSK



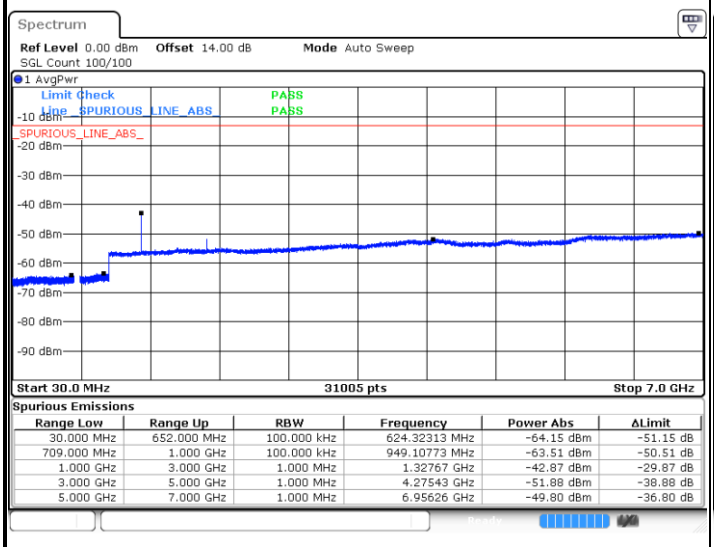
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	652.000 MHz	100.000 kHz	650.15806 MHz	-63.96 dBm	-50.96 dB
709.000 MHz	1.000 GHz	100.000 kHz	933.44484 MHz	-63.63 dBm	-50.63 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.38715 GHz	-42.49 dBm	-29.49 dB
3.000 GHz	5.000 GHz	1.000 MHz	4.16396 GHz	-51.77 dBm	-38.77 dB
5.000 GHz	7.000 GHz	1.000 MHz	6.86328 GHz	-49.73 dBm	-36.73 dB

Date: 7.JAN.2025 15:09:40

LTE Band 71 / 10MHz

Lowest Channel / QPSK

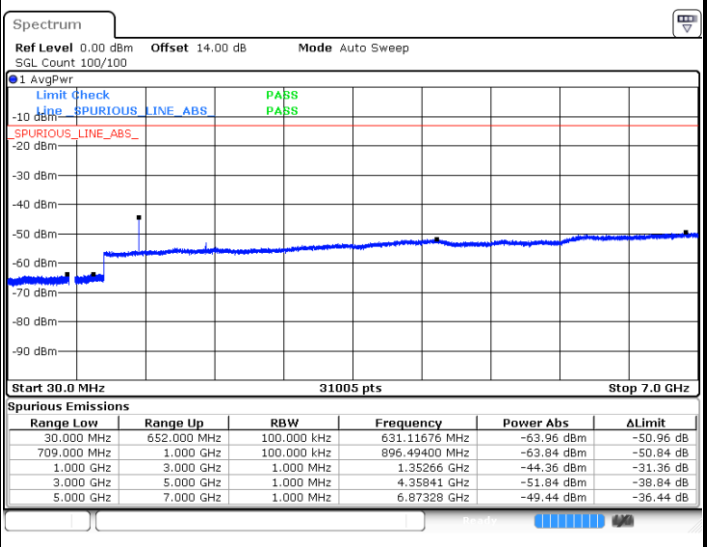


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	652.000 MHz	100.000 kHz	624.32313 MHz	-64.15 dBm	-51.15 dB
709.000 MHz	1.000 GHz	100.000 kHz	949.10773 MHz	-63.51 dBm	-50.51 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.32767 GHz	-42.87 dBm	-29.87 dB
3.000 GHz	5.000 GHz	1.000 MHz	4.27543 GHz	-51.88 dBm	-38.88 dB
5.000 GHz	7.000 GHz	1.000 MHz	6.95626 GHz	-49.80 dBm	-36.80 dB

Date: 7.JAN.2025 15:16:59

Middle Channel / QPSK

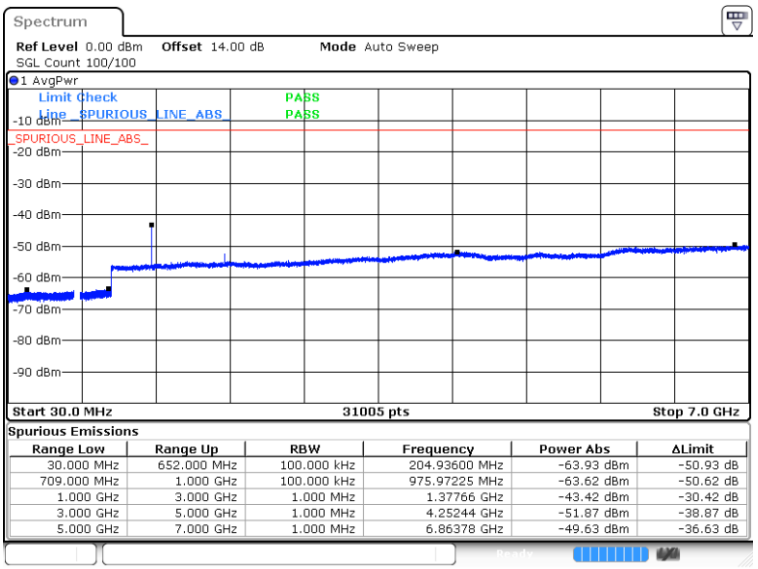


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	652.000 MHz	100.000 kHz	631.11676 MHz	-63.96 dBm	-50.96 dB
709.000 MHz	1.000 GHz	100.000 kHz	896.49400 MHz	-63.84 dBm	-50.84 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.35266 GHz	-44.36 dBm	-31.36 dB
3.000 GHz	5.000 GHz	1.000 MHz	4.35841 GHz	-51.84 dBm	-38.84 dB
5.000 GHz	7.000 GHz	1.000 MHz	6.87328 GHz	-49.44 dBm	-36.44 dB

Date: 7.JAN.2025 15:18:03

Highest Channel / QPSK



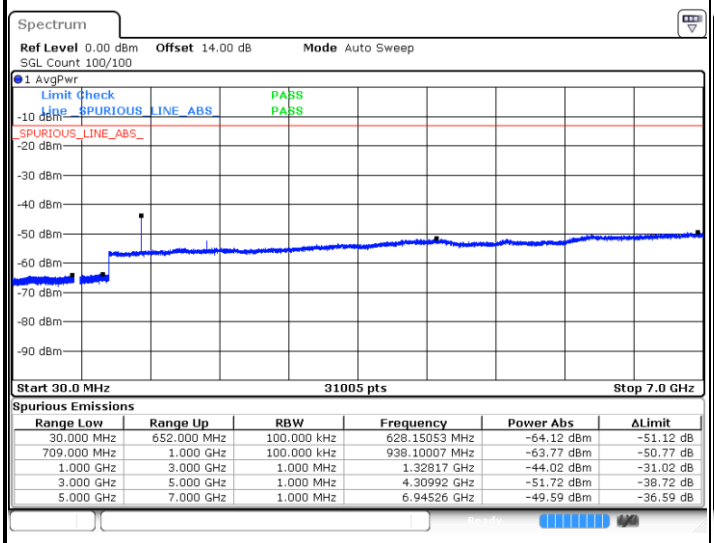
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	652.000 MHz	100.000 kHz	204.93600 MHz	-63.93 dBm	-50.93 dB
709.000 MHz	1.000 GHz	100.000 kHz	975.97225 MHz	-63.62 dBm	-50.62 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.37766 GHz	-43.42 dBm	-30.42 dB
3.000 GHz	5.000 GHz	1.000 MHz	4.25244 GHz	-51.87 dBm	-38.87 dB
5.000 GHz	7.000 GHz	1.000 MHz	6.86378 GHz	-49.63 dBm	-36.63 dB

Date: 7.JAN.2025 15:25:58

LTE Band 71 / 15MHz

Lowest Channel / QPSK

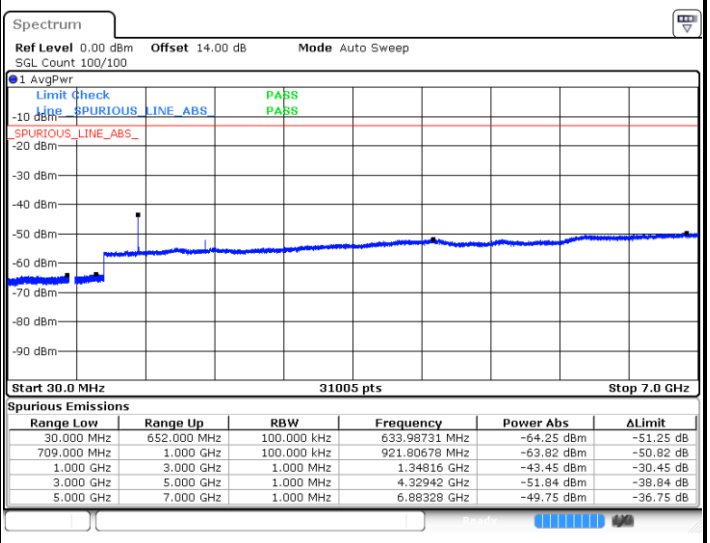


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	652.000 MHz	100.000 kHz	628.15053 MHz	-64.12 dBm	-51.12 dB
709.000 MHz	1.000 GHz	100.000 kHz	938.10007 MHz	-63.77 dBm	-50.77 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.32817 GHz	-44.02 dBm	-31.02 dB
3.000 GHz	5.000 GHz	1.000 MHz	4.30992 GHz	-51.72 dBm	-38.72 dB
5.000 GHz	7.000 GHz	1.000 MHz	6.94526 GHz	-49.59 dBm	-36.59 dB

Date: 7.JAN.2025 15:33:16

Middle Channel / QPSK

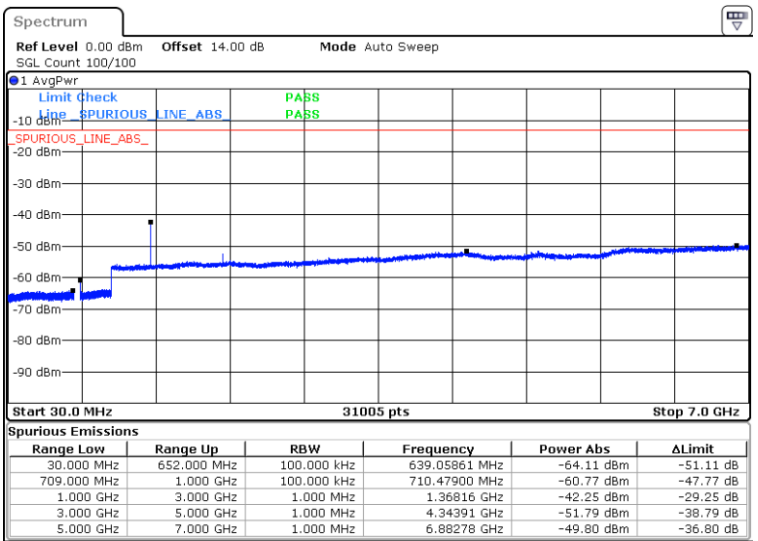


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	652.000 MHz	100.000 kHz	633.98731 MHz	-64.25 dBm	-51.25 dB
709.000 MHz	1.000 GHz	100.000 kHz	921.80678 MHz	-63.82 dBm	-50.82 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.34816 GHz	-43.45 dBm	-30.45 dB
3.000 GHz	5.000 GHz	1.000 MHz	4.32942 GHz	-51.84 dBm	-38.84 dB
5.000 GHz	7.000 GHz	1.000 MHz	6.88328 GHz	-49.75 dBm	-36.75 dB

Date: 7.JAN.2025 15:34:20

Highest Channel / QPSK



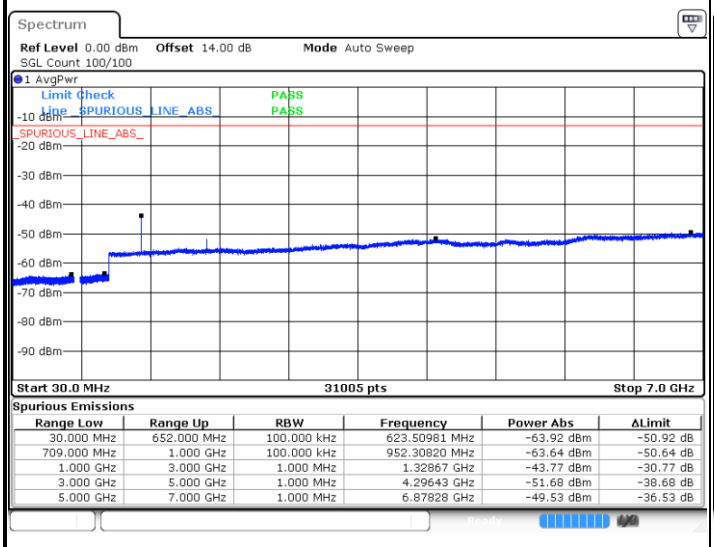
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	652.000 MHz	100.000 kHz	639.05861 MHz	-64.11 dBm	-51.11 dB
709.000 MHz	1.000 GHz	100.000 kHz	710.47900 MHz	-60.77 dBm	-47.77 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.36816 GHz	-42.25 dBm	-29.25 dB
3.000 GHz	5.000 GHz	1.000 MHz	4.34391 GHz	-51.79 dBm	-38.79 dB
5.000 GHz	7.000 GHz	1.000 MHz	6.88278 GHz	-49.80 dBm	-36.80 dB

Date: 7.JAN.2025 15:42:16

LTE Band 71 / 20MHz

Lowest Channel / QPSK

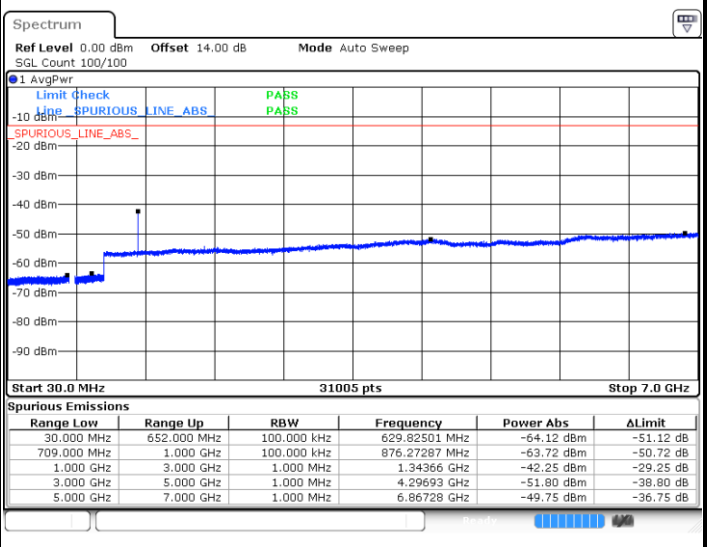


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	652.000 MHz	100.000 kHz	623.50981 MHz	-63.92 dBm	-50.92 dB
709.000 MHz	1.000 GHz	100.000 kHz	952.30820 MHz	-63.64 dBm	-50.64 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.32867 GHz	-43.77 dBm	-30.77 dB
3.000 GHz	5.000 GHz	1.000 MHz	4.29643 GHz	-51.68 dBm	-38.68 dB
5.000 GHz	7.000 GHz	1.000 MHz	6.87828 GHz	-49.53 dBm	-36.53 dB

Date: 7.JAN.2025 15:49:34

Middle Channel / QPSK

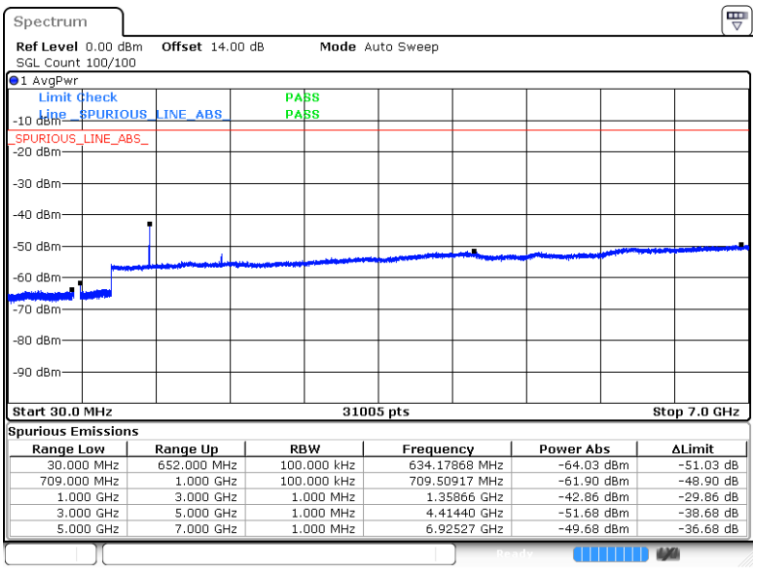


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	652.000 MHz	100.000 kHz	629.82501 MHz	-64.12 dBm	-51.12 dB
709.000 MHz	1.000 GHz	100.000 kHz	876.27287 MHz	-63.72 dBm	-50.72 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.34366 GHz	-42.25 dBm	-29.25 dB
3.000 GHz	5.000 GHz	1.000 MHz	4.29693 GHz	-51.80 dBm	-38.80 dB
5.000 GHz	7.000 GHz	1.000 MHz	6.86728 GHz	-49.75 dBm	-36.75 dB

Date: 7.JAN.2025 15:50:38

Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	652.000 MHz	100.000 kHz	634.17868 MHz	-64.03 dBm	-51.03 dB
709.000 MHz	1.000 GHz	100.000 kHz	709.50917 MHz	-61.90 dBm	-48.90 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.35866 GHz	-42.86 dBm	-29.86 dB
3.000 GHz	5.000 GHz	1.000 MHz	4.41440 GHz	-51.68 dBm	-38.68 dB
5.000 GHz	7.000 GHz	1.000 MHz	6.92527 GHz	-49.68 dBm	-36.68 dB

Date: 7.JAN.2025 15:59:53

Frequency Stability

Test Conditions		LTE Band 71 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0009	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0003	

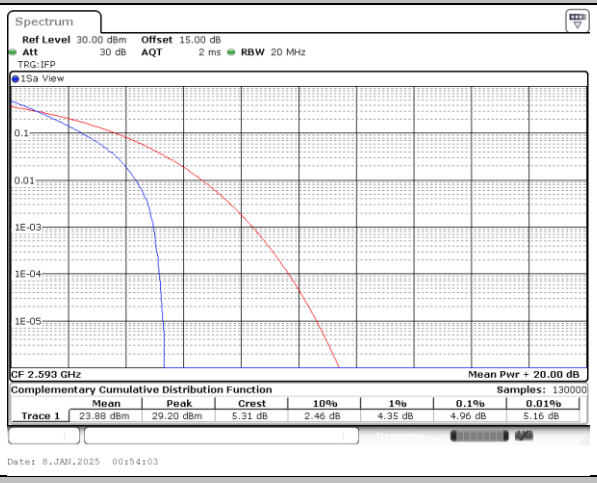
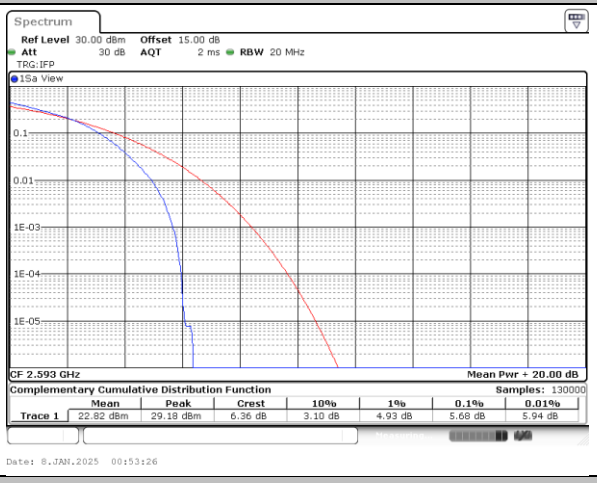
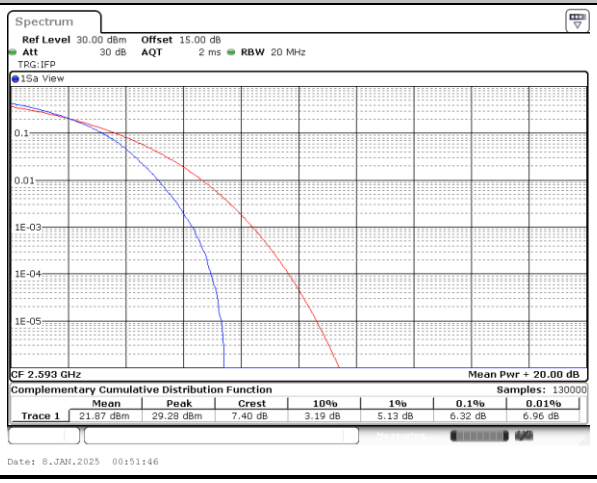
Note:

1. Normal Voltage = 3.91 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.5 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 41

Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.96	5.68	6.32	PASS

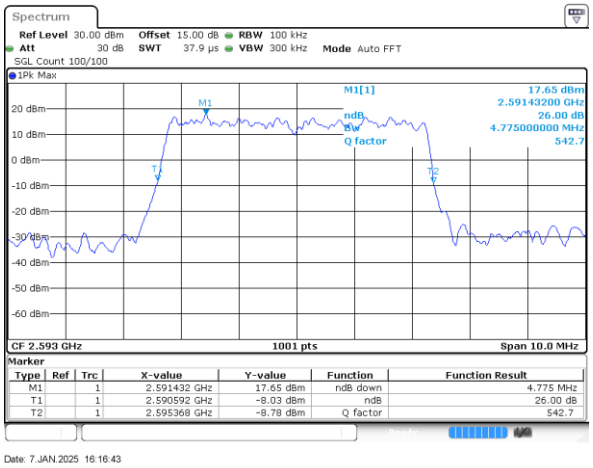
LTE Band 41 / 20MHz / QPSK	LTE Band 41 / 20MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	
LTE Band 41 / 20MHz / 64QAM	
Middle Channel / Full RB	
	

26dB Bandwidth

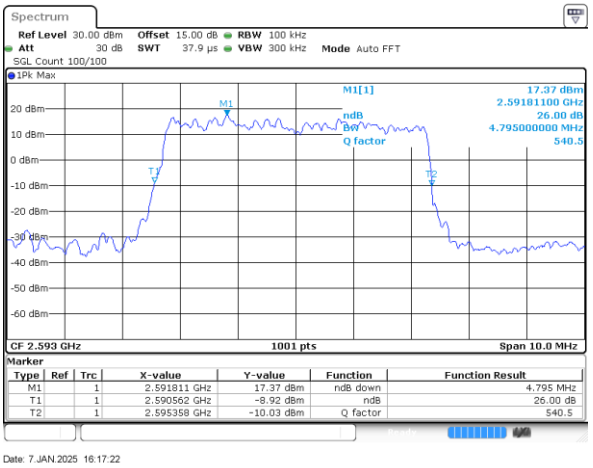
Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.78	4.80	9.63	9.73	14.18	14.57	18.90	18.78

LTE Band 41

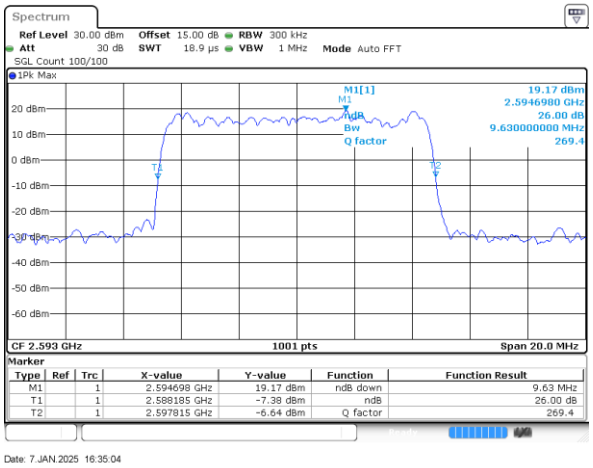
Middle Channel / 5MHz / QPSK



Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM