FCC RF Test Report

APPLICANT	:	Motorola Mobility LLC
EQUIPMENT	:	Mobile Cellular Phone
BRAND NAME	:	Motorola
MODEL NAME	:	XT2523-11
FCC ID	:	IHDT56AT5
STANDARD	:	47 CFR Part 22(H), 27(M)
CLASSIFICATION	:	Licensed Non-Broadcast Transmitter Held to Ear(TNE)
TEST DATE(S)	:	May 09, 2025 ~ May 21, 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.

Fly Liang

Approved by: Fly Liang

ACCREDITED
Cert #5145.01

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People's Republic of China

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APPENDIX A. TEST RESULTS OF CONDUCTED TEST

APPENDIX B. TEST RESULTS OF RADIATED TEST

APPENDIX C. TEST SETUP PHOTOGRAPHS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG480701-15B	Rev. 01	Initial issue of report	Jun. 03, 2025

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	Report Only	-
	§22.913(a)(5)	Effective Radiated Power (Band 5)	ERP < 7 Watt	PASS	-
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 7) (Band 38) (Band 41)	EIRP < 2Watt		-
3.5	N/A	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	-	Report Only	-
3.7	§2.1051 §22.917(a)	Conducted Band Edge Measurement (Band 5)	< 43+10log10(P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41)	§27.53(m)(4)		
3.8	§2.1051 §22.917(a)	Conducted Spurious Emission (Band 5)	< 43+10log10(P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7) (Band 38) (Band 41)	< 55+10log$_{10}$(P[Watts])		
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	-
	§2.1055 §27.54		Within Authorized Band		
4.4	§2.1053 §22.917(a)	Radiated Spurious Emission (Band 5)	< 43+10log$_{10}$(P[Watts])	PASS	Under limit 24.64 dB at 10104.00 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7) (Band 38) (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	XT2523-11
FCC ID	IHDT56AT5
IMEI Code	Conducted: 350191670020455/350191670020463 Radiation: 350191670020158/350191670020166 for Sample 1 350191670020257/350191670020265 for Sample 2 350191670020356/350191670020364 for Sample 3
HW Version	PVT
SW Version	VVTA35.51
EUT Stage	Identical Prototype

Remark: There are four types of EUT, the differences between them could be referred to the XT2523-11_Operational Description of Product Equality Declaration which is exhibit separately. After evaluation, Sample 1 was chose to perform full test and Sample 2/3 are verified the Radiation worst case of Sample 1 among the Part22/27 WWAN reports. The difference of Sample 4 does not affect the RF performance.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 5 : 824 MHz ~ 849 MHz LTE Band 7 : 2500 MHz ~ 2570 MHz LTE Band 38 : 2570 MHz ~ 2620 MHz LTE Band 41 : 2535 MHz ~ 2655 MHz
Rx Frequency	LTE Band 5 : 869 MHz ~ 894 MHz LTE Band 7 : 2620 MHz ~ 2690 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41 : 2535 MHz ~ 2655 MHz
Bandwidth	LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 7 : 5MHz/ 10MHz / 15MHz / 20MHz LTE Band 38 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	<ANT0>: LTE Band 5 : 23.23 dBm LTE Band 7 : 22.75 dBm LTE Band 38 : 23.04 dBm LTE Band 41 : 23.07 dBm <ANT3>: LTE Band 5 : 23.12 dBm LTE Band 7 : 22.50 dBm LTE Band 38 : 22.61 dBm LTE Band 41 : 22.75 dBm
Antenna Gain	<ANT0>: LTE Band 5 : -4.2 dBi LTE Band 7 : -2.5 dBi LTE Band 38 : -2.7 dBi LTE Band 41 : -2.6 dBi <ANT3>: LTE Band 5 : -4.1 dBi LTE Band 7 : -3.2 dBi LTE Band 38 : -2.6 dBi LTE Band 41 : -2.6 dBi
Type of Modulation	QPSK / 16QAM / 64QAM

Note: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 Band5/7/38/41 are shown in the report.

1.5 Modification of EUT

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

1.6 Maximum ERP/EIRP Power and Emission Designator

LTE Band 5		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
1.4	824.7 ~ 848.3	0.0472	1M08G7D	0.0379	1M09W7D
3	825.5 ~ 847.5	0.0478	2M71G7D	0.0390	2M70W7D
5	826.5 ~ 846.5	0.0478	4M48G7D	0.0390	4M49W7D
10	829.0 ~ 844.0	0.0488	9M07G7D	0.0406	9M05W7D
LTE Band 7		**QPSK**		**16QAM/64QAM**	
BW (MHz)	**Frequency Range (MHz)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**
5	2502.5 ~ 2567.5	0.1042	4M50G7D	0.0912	4M50W7D
10	2505.0 ~ 2565.0	0.1045	9M09G7D	0.0916	9M05W7D
15	2507.5 ~ 2562.5	0.1035	13M4G7D	0.0916	13M5W7D
20	2510.0 ~ 2560.0	0.1059	17M9G7D	0.0912	17M9W7D
LTE Band 38		**QPSK**		**16QAM/64QAM**	
BW (MHz)	**Frequency Range (MHz)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**
5	2572.5 ~ 2617.5	0.1069	4M86G7D	0.0877	4M84W7D
10	2575.0 ~ 2615.0	0.1074	9M65G7D	0.0877	9M73W7D
15	2577.5 ~ 2612.5	0.1067	14M1G7D	0.0883	14M2W7D
20	2580.0 ~ 2610.0	0.1081	18M7G7D	0.0887	18M8W7D
LTE Band 41		**QPSK**		**16QAM/64QAM**	
BW (MHz)	**Frequency Range (MHz)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**
5	2537.5 ~ 2652.5	0.1086	4M86G7D	0.0877	4M84W7D
10	2540.0 ~ 2650.0	0.1112	9M65G7D	0.0869	9M73W7D
15	2542.5 ~ 2647.5	0.1086	14M1G7D	0.0887	14M2W7D
20	2545.0 ~ 2645.0	0.1114	18M7G7D	0.0895	18M8W7D

Note:

1. LTE Band 41 overlaps the entire frequency range of LTE Band 38. Therefore, the test results provided in this report covers Band 41 as well as Band 38.
2. 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	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	TH01-SZ 03CH02-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a

1.9 Applicable Standards

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

- 47 CFR Part 22(H), 27(M)
- 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(AOHAI)	**Model Name**	MC-101
AC Adapter 1(EU)	**Brand Name**	Motorola(AOHAI)	**Model Name**	MC-102
AC Adapter 1(UK)	**Brand Name**	Motorola(AOHAI)	**Model Name**	MC-103
AC Adapter 1(IN)	**Brand Name**	Motorola(AOHAI)	**Model Name**	MC-104
AC Adapter 1(AU)	**Brand Name**	Motorola(AOHAI)	**Model Name**	MC-105
AC Adapter 1(AR)	**Brand Name**	Motorola(AOHAI)	**Model Name**	MC-106
AC Adapter 2(US)	**Brand Name**	Motorola(CHENYANG)	**Model Name**	MC-101
AC Adapter 2(EU)	**Brand Name**	Motorola(CHENYANG)	**Model Name**	MC-102
AC Adapter 2(UK)	**Brand Name**	Motorola(CHENYANG)	**Model Name**	MC-103
AC Adapter 2(AU)	**Brand Name**	Motorola(CHENYANG)	**Model Name**	MC-105
AC Adapter 2(AR)	**Brand Name**	Motorola(CHENYANG)	**Model Name**	MC-106
AC Adapter 2(BR)	**Brand Name**	Motorola(CHENYANG)	**Model Name**	MC-107
AC Adapter 2(PRC)	**Brand Name**	Motorola(CHENYANG)	**Model Name**	MC-108
AC Adapter 3(CHILE)	**Brand Name**	Motorola(SALCOMP)	**Model Name**	MC-109
Battery 1	**Brand Name**	Motorola(ATL)	**Model Name**	RL52
Battery 2	**Brand Name**	Motorola(Jiade)	**Model Name**	RL52
Battery 3	**Brand Name**	Motorola(Sunwoda)	**Model Name**	RL52
USB Cable 1	**Brand Name**	Motorola(Yihuaxing)	**Model Name**	T365-020 T365-020-01 T365-020-02
USB Cable 2	**Brand Name**	Motorola(WASHIN)	**Model Name**	HX-TL-01 HX-TL-08 HX-TL-07
USB Cable 3	**Brand Name**	Motorola(Juwei)	**Model Name**	JWUB1614-T03H JWUB1705-T03H JWUB1856-T03H
USB Cable 4	**Brand Name**	Motorola(I-SHENG)	**Model Name**	SC18D38574

2 Test Configuration of Equipment Under Test

2.1 Test Mode

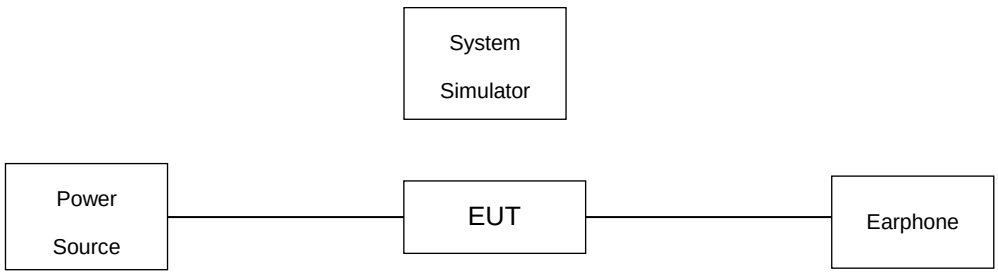
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

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

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	5	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v
	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	38	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	5				v	-	-	v	v	v			v		v	
	7	-	-				v	v	v	v			v		v	
	41	-	-				v	v	v	v			v		v	
26dB and 99% Bandwidth	5	v	v	v	v	-	-	v	v				v		v	
	7	-	-	v	v	v	v	v	v				v		v	
	41	-	-	v	v	v	v	v	v				v		v	
Conducted Band Edge	5	v	v	v	v	-	-	v	v	v	v		v	v		v
	7	-	-	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	5	v	v	v	v	-	-	v			v			v	v	v
	7	-	-	v	v	v	v	v			v			v	v	v
	41	-	-	v	v	v	v	v			v			v	v	v
Frequency Stability	5				v	-	-	v					v		v	
	7	-	-		v			v					v		v	
	41	-	-		v			v					v		v	
E.R.P / E.I.R.P	5	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v
	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	38	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	5	Worst Case													v	
	7	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.

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
3.	Earphone 1	N/A	MH202	N/A	N/A	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.0 dB and 10dB attenuator.

Example :

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

= 4.0 + 10 = 14.0 (dB)

2.5 Frequency List of Low/Middle/High Channels

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

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

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

LTE Band 41 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
20	Channel	40140	40640	41140
	Frequency	2545	2595	2645
15	Channel	40115	40640	41165
	Frequency	2542.5	2595	2647.5
10	Channel	40090	40640	41190
	Frequency	2540	2595	2650
5	Channel	40065	40640	41215
	Frequency	2537.5	2595	2652.5

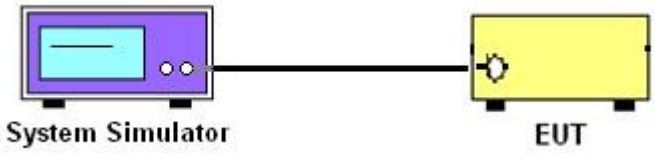
3 Conducted Test Items

3.1 Measuring Instruments

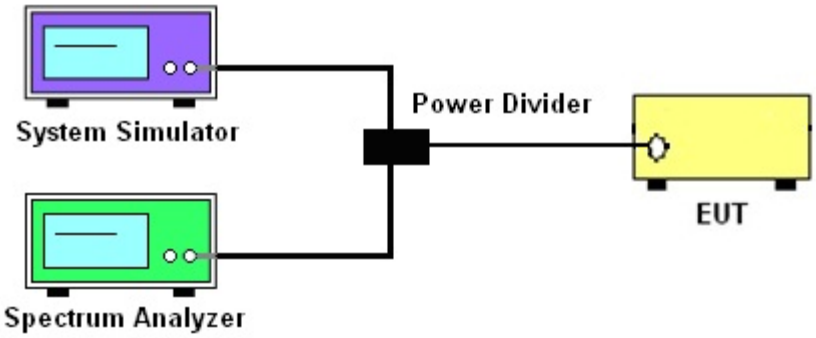
See list of measuring instruments of this test report.

3.2 Test Setup

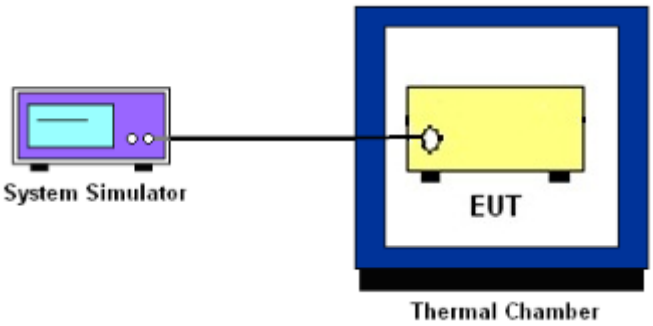
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

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

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

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

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

According to KDB 412172 D01 Power Approach,

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

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.4.2 Test Procedures

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

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

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

3.5.2 Test Procedures

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

3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

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

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

3.6.2 Test Procedures

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

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

22.917(a)

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

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
1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
5. Set spectrum analyzer with RMS detector.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. Checked that all the results comply with the emission limit line.

   Example:

   The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

   = P(W)- [43 + 10log(P)] (dB)

   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.
8. For LTE Band 7, 38, 41, the other 40 dB, and 55 dB have additionally applied same calculation above.
9. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

For Band 7,38,41:

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

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

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.
11. For Band 7, 38, 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. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

3.9.2 Test Procedures for Temperature Variation

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

3.9.3 Test Procedures for Voltage Variation

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

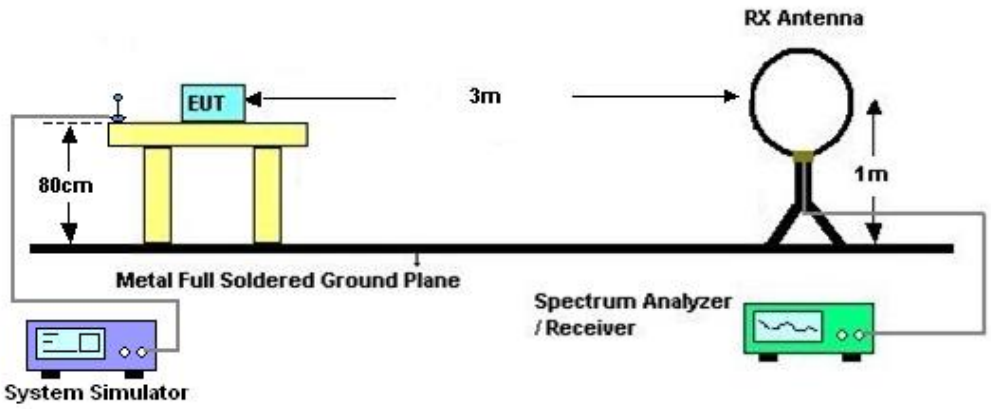
4 Radiated Test Items

4.1 Measuring Instruments

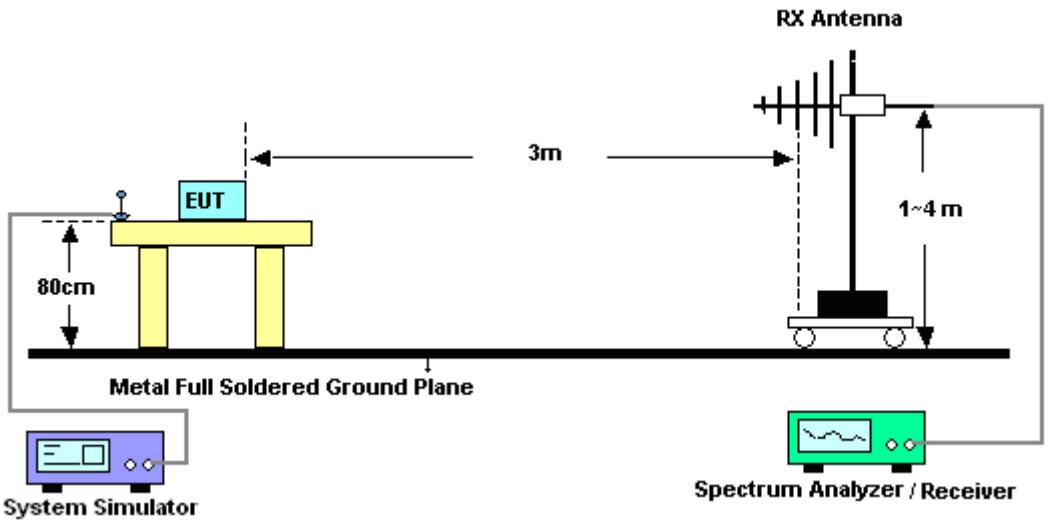
See list of measuring instruments of this test report.

4.2 Test Setup

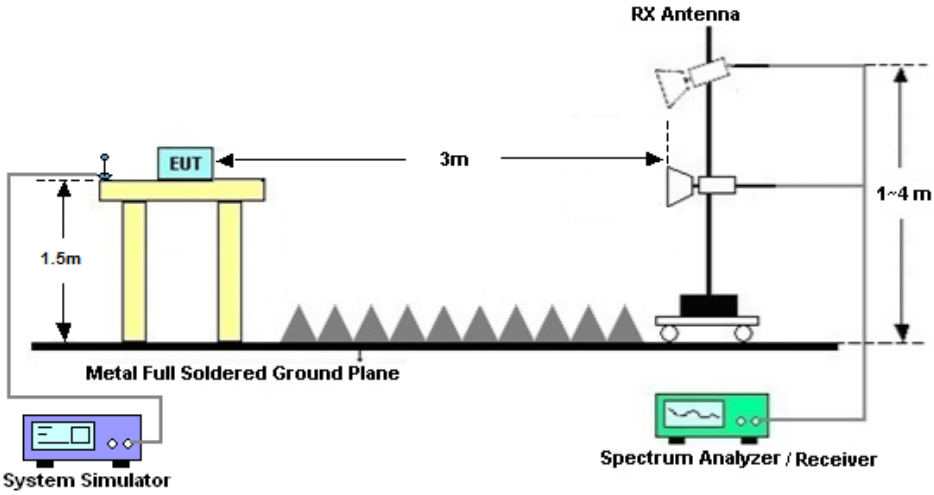
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

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

For Band 7, 38, 41

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

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 7, 38, 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. 02, 2025	May 09, 2025~ May 10, 2025	Apr. 01, 2026	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V，3A	Oct. 14, 2024	May 09, 2025~ May 10, 2025	Oct. 13, 2025	Conducted (TH01-SZ)
Power Divider	Titan	P02N005180	923402	0.4GHz~26.5GHz	Nov. 08, 2024	May 09, 2025~ May 10, 2025	Nov. 07, 2025	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 03, 2024	May 09, 2025~ May 10, 2025	Jul. 02, 2025	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2024	May 21, 2025	Jul. 02, 2025	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	May 21, 2025	Dec. 27, 2025	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Oct. 24, 2023	May 21, 2025	Oct. 23, 2025	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	May 21, 2025	Jul. 04, 2025	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2024	May 21, 2025	Jul. 03, 2025	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 03, 2025	May 21, 2025	Apr. 02, 2027	Radiation (03CH02-SZ)
LF Amplifier	EM Electronics	EM330	060788	20MHz-3GHz	Dec. 25, 2024	May 21, 2025	Dec. 24, 2025	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 14, 2024	May 21, 2025	Oct. 13, 2025	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Oct. 18, 2024	May 21, 2025	Oct. 17, 2025	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	May 21, 2025	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	May 21, 2025	NCR	Radiation (03CH02-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))	2.47 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.31 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.72 dB

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

Appendix A. Test Results of Conducted Test

Test Engineer :	Nina Cheng	Temperature :	24~26℃
		Relative Humidity :	50~53%

Conducted Output Power(Average power) and ERP/EIRP

LTE Band 5_ANT0:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				20450	20525	20600			
Frequency (MHz)				829	836.5	844	L	M	H
10	QPSK	1	0	23.03	23.18	23.07	0.0466	0.0482	0.0470
10	QPSK	1	25	23.20	23.23	23.16	0.0484	0.0488	0.0480
10	QPSK	1	49	22.84	22.98	22.87	0.0446	0.0460	0.0449
10	QPSK	25	0	22.28	22.29	22.24	0.0392	0.0393	0.0388
10	QPSK	25	12	22.22	22.28	22.20	0.0386	0.0392	0.0385
10	QPSK	25	25	22.10	22.13	22.03	0.0376	0.0378	0.0370
10	QPSK	50	0	22.23	22.28	22.13	0.0387	0.0392	0.0378
10	16QAM	1	0	22.25	22.36	22.25	0.0389	0.0399	0.0389
10	16QAM	1	25	22.34	22.40	22.32	0.0397	0.0403	0.0395
10	16QAM	1	49	22.35	22.44	22.30	0.0398	0.0406	0.0394
10	16QAM	25	0	21.16	21.23	21.20	0.0303	0.0308	0.0305
10	16QAM	25	12	21.24	21.27	21.17	0.0308	0.0310	0.0303
10	16QAM	25	25	21.18	21.25	21.15	0.0304	0.0309	0.0302
10	16QAM	50	0	21.18	21.19	21.10	0.0304	0.0305	0.0299
10	64QAM	1	0	21.30	21.32	21.22	0.0313	0.0314	0.0307
10	64QAM	1	25	21.27	21.34	21.25	0.0310	0.0316	0.0309
10	64QAM	1	49	21.06	21.21	21.17	0.0296	0.0306	0.0303
10	64QAM	25	0	20.15	20.26	20.13	0.0240	0.0246	0.0239
10	64QAM	25	12	20.22	20.32	20.18	0.0244	0.0249	0.0242
10	64QAM	25	25	20.22	20.23	20.16	0.0244	0.0244	0.0240
10	64QAM	50	0	20.18	20.30	20.21	0.0242	0.0248	0.0243
Channel				20425	20525	20625	ERP(W)		
Frequency (MHz)				826.5	836.5	846.5	L	M	H
5	QPSK	1	0	22.95	22.95	22.95	0.0457	0.0457	0.0457
5	QPSK	1	12	23.14	23.14	23.14	0.0478	0.0478	0.0478
5	QPSK	1	24	22.79	22.79	22.79	0.0441	0.0441	0.0441
5	QPSK	12	0	22.20	22.20	22.20	0.0385	0.0385	0.0385
5	QPSK	12	7	22.19	22.19	22.19	0.0384	0.0384	0.0384
5	QPSK	12	13	22.00	22.00	22.00	0.0367	0.0367	0.0367
5	QPSK	25	0	22.03	22.03	22.03	0.0370	0.0370	0.0370

5	16QAM	1	0	22.19	22.19	22.19	0.0384	0.0384	0.0384
5	16QAM	1	12	22.26	22.26	22.26	0.0390	0.0390	0.0390
5	16QAM	1	24	22.26	22.26	22.26	0.0390	0.0390	0.0390
5	16QAM	12	0	21.15	21.15	21.15	0.0302	0.0302	0.0302
5	16QAM	12	7	21.14	21.14	21.14	0.0301	0.0301	0.0301
5	16QAM	12	13	21.14	21.14	21.14	0.0301	0.0301	0.0301
5	16QAM	25	0	21.00	21.00	21.00	0.0292	0.0292	0.0292
5	64QAM	1	0	21.11	21.11	21.11	0.0299	0.0299	0.0299
5	64QAM	1	12	21.13	21.13	21.13	0.0301	0.0301	0.0301
5	64QAM	1	24	21.05	21.05	21.05	0.0295	0.0295	0.0295
5	64QAM	12	0	20.05	20.05	20.05	0.0234	0.0234	0.0234
5	64QAM	12	7	20.13	20.13	20.13	0.0239	0.0239	0.0239
5	64QAM	12	13	20.09	20.09	20.09	0.0237	0.0237	0.0237
5	64QAM	25	0	20.06	20.06	20.06	0.0235	0.0235	0.0235
Channel				20415	20525	20635	ERP(W)		
Frequency (MHz)				825.5	836.5	847.5	L	M	H
3	QPSK	1	0	22.95	22.95	22.95	0.0457	0.0457	0.0457
3	QPSK	1	8	23.14	23.14	23.14	0.0478	0.0478	0.0478
3	QPSK	1	14	22.79	22.79	22.79	0.0441	0.0441	0.0441
3	QPSK	8	0	22.20	22.20	22.20	0.0385	0.0385	0.0385
3	QPSK	8	4	22.19	22.19	22.19	0.0384	0.0384	0.0384
3	QPSK	8	7	22.00	22.00	22.00	0.0367	0.0367	0.0367
3	QPSK	15	0	22.03	22.03	22.03	0.0370	0.0370	0.0370
3	16QAM	1	0	22.19	22.19	22.19	0.0384	0.0384	0.0384
3	16QAM	1	8	22.26	22.26	22.26	0.0390	0.0390	0.0390
3	16QAM	1	14	22.26	22.26	22.26	0.0390	0.0390	0.0390
3	16QAM	8	0	21.15	21.15	21.15	0.0302	0.0302	0.0302
3	16QAM	8	4	21.14	21.14	21.14	0.0301	0.0301	0.0301
3	16QAM	8	7	21.14	21.14	21.14	0.0301	0.0301	0.0301
3	16QAM	15	0	21.00	21.00	21.00	0.0292	0.0292	0.0292
3	64QAM	1	0	21.11	21.11	21.11	0.0299	0.0299	0.0299
3	64QAM	1	8	21.13	21.13	21.13	0.0301	0.0301	0.0301
3	64QAM	1	14	21.05	21.05	21.05	0.0295	0.0295	0.0295
3	64QAM	8	0	20.05	20.05	20.05	0.0234	0.0234	0.0234
3	64QAM	8	4	20.13	20.13	20.13	0.0239	0.0239	0.0239
3	64QAM	8	7	20.09	20.09	20.09	0.0237	0.0237	0.0237
3	64QAM	15	0	20.06	20.06	20.06	0.0235	0.0235	0.0235
Channel				20407	20525	20643	ERP(W)		
Frequency (MHz)				824.7	836.5	848.3	L	M	H
1.4	QPSK	1	0	22.94	22.94	22.94	0.0456	0.0456	0.0456
1.4	QPSK	1	3	23.06	23.06	23.06	0.0469	0.0469	0.0469
1.4	QPSK	1	5	22.87	22.87	22.87	0.0449	0.0449	0.0449
1.4	QPSK	3	0	22.86	22.86	22.86	0.0448	0.0448	0.0448
1.4	QPSK	3	1	23.09	23.09	23.09	0.0472	0.0472	0.0472
1.4	QPSK	3	3	23.00	23.00	23.00	0.0462	0.0462	0.0462
1.4	QPSK	6	0	21.99	21.99	21.99	0.0366	0.0366	0.0366
1.4	16QAM	1	0	22.14	22.14	22.14	0.0379	0.0379	0.0379

1.4	16QAM	1	3	22.07	22.07	22.07	0.0373	0.0373	0.0373
1.4	16QAM	1	5	22.10	22.10	22.10	0.0376	0.0376	0.0376
1.4	16QAM	3	0	22.12	22.12	22.12	0.0378	0.0378	0.0378
1.4	16QAM	3	1	21.99	21.99	21.99	0.0366	0.0366	0.0366
1.4	16QAM	3	3	22.13	22.13	22.13	0.0378	0.0378	0.0378
1.4	16QAM	6	0	20.95	20.95	20.95	0.0288	0.0288	0.0288
1.4	64QAM	1	0	21.11	21.11	21.11	0.0299	0.0299	0.0299
1.4	64QAM	1	3	21.01	21.01	21.01	0.0292	0.0292	0.0292
1.4	64QAM	1	5	20.88	20.88	20.88	0.0284	0.0284	0.0284
1.4	64QAM	3	0	20.99	20.99	20.99	0.0291	0.0291	0.0291
1.4	64QAM	3	1	21.02	21.02	21.02	0.0293	0.0293	0.0293
1.4	64QAM	3	3	21.00	21.00	21.00	0.0292	0.0292	0.0292
1.4	64QAM	6	0	19.97	19.97	19.97	0.0230	0.0230	0.0230

LTE Band 7_ANT0:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				20850	20850	21350			
Frequency (MHz)				2510	2535	2560	L	M	H
20	QPSK	1	0	22.32	22.40	22.27	0.0959	0.0977	0.0948
20	QPSK	1	49	22.74	22.75	22.69	0.1057	0.1059	0.1045
20	QPSK	1	99	22.34	22.39	22.37	0.0964	0.0975	0.0971
20	QPSK	50	0	22.00	22.12	22.00	0.0891	0.0916	0.0891
20	QPSK	50	24	21.95	22.07	21.95	0.0881	0.0906	0.0881
20	QPSK	50	50	21.95	22.05	21.97	0.0881	0.0902	0.0885
20	QPSK	100	0	22.00	22.10	21.93	0.0891	0.0912	0.0877
20	16QAM	1	0	21.78	21.89	21.85	0.0847	0.0869	0.0861
20	16QAM	1	49	22.05	22.06	22.10	0.0902	0.0904	0.0912
20	16QAM	1	99	22.08	21.92	22.00	0.0908	0.0875	0.0891
20	16QAM	50	0	20.90	20.97	20.94	0.0692	0.0703	0.0698
20	16QAM	50	24	20.93	21.06	20.92	0.0697	0.0718	0.0695
20	16QAM	50	50	21.00	21.09	20.92	0.0708	0.0723	0.0695
20	16QAM	100	0	20.97	21.04	20.88	0.0703	0.0714	0.0689
20	64QAM	1	0	20.73	20.80	20.72	0.0665	0.0676	0.0664
20	64QAM	1	49	20.83	20.86	20.83	0.0681	0.0685	0.0681
20	64QAM	1	99	20.74	20.77	20.65	0.0667	0.0671	0.0653
20	64QAM	50	0	19.86	19.95	19.83	0.0545	0.0556	0.0541
20	64QAM	50	24	19.88	19.98	19.91	0.0547	0.0560	0.0551
20	64QAM	50	50	19.90	20.00	19.89	0.0550	0.0562	0.0548
20	64QAM	100	0	19.88	19.97	19.88	0.0547	0.0558	0.0547
Channel				20825	21100	21375	EIRP(W)		
Frequency (MHz)				2507.5	2535	2562.5	L	M	H
15	QPSK	1	0	22.22	22.28	22.26	0.0938	0.0951	0.0946
15	QPSK	1	37	22.62	22.64	22.65	0.1028	0.1033	0.1035
15	QPSK	1	74	22.21	22.30	22.25	0.0935	0.0955	0.0944

15	QPSK	36	0	21.92	22.06	21.88	0.0875	0.0904	0.0867
15	QPSK	36	20	21.93	21.95	21.84	0.0877	0.0881	0.0859
15	QPSK	36	39	21.97	22.11	21.97	0.0885	0.0914	0.0885
15	QPSK	75	0	21.79	21.96	21.92	0.0849	0.0883	0.0875
15	16QAM	1	0	21.78	21.81	21.67	0.0847	0.0853	0.0826
15	16QAM	1	37	22.06	21.98	22.12	0.0904	0.0887	0.0916
15	16QAM	1	74	22.03	21.92	21.82	0.0897	0.0875	0.0855
15	16QAM	36	0	20.90	20.88	20.88	0.0692	0.0689	0.0689
15	16QAM	36	20	20.90	20.95	20.90	0.0692	0.0700	0.0692
15	16QAM	36	39	20.93	21.01	20.82	0.0697	0.0710	0.0679
15	16QAM	75	0	20.85	20.91	20.88	0.0684	0.0693	0.0689
15	64QAM	1	0	20.66	20.76	20.65	0.0655	0.0670	0.0653
15	64QAM	1	37	20.77	20.72	20.76	0.0671	0.0664	0.0670
15	64QAM	1	74	20.70	20.75	20.55	0.0661	0.0668	0.0638
15	64QAM	36	0	19.64	19.76	19.72	0.0518	0.0532	0.0527
15	64QAM	36	20	19.77	19.87	19.80	0.0533	0.0546	0.0537
15	64QAM	36	39	19.89	19.83	19.86	0.0548	0.0541	0.0545
15	64QAM	75	0	19.86	19.94	19.80	0.0545	0.0555	0.0537
Channel				20800	21100	21400	EIRP(W)		
Frequency (MHz)				2505	2535	2565	L	M	H
10	QPSK	1	0	22.16	22.27	22.26	0.0925	0.0948	0.0946
10	QPSK	1	25	22.69	22.67	22.62	0.1045	0.1040	0.1028
10	QPSK	1	49	22.25	22.29	22.24	0.0944	0.0953	0.0942
10	QPSK	25	0	21.90	22.07	22.04	0.0871	0.0906	0.0899
10	QPSK	25	12	21.95	22.00	21.93	0.0881	0.0891	0.0877
10	QPSK	25	25	21.88	22.04	21.95	0.0867	0.0899	0.0881
10	QPSK	50	0	21.85	21.91	21.90	0.0861	0.0873	0.0871
10	16QAM	1	0	21.68	21.86	21.78	0.0828	0.0863	0.0847
10	16QAM	1	25	21.96	22.00	22.12	0.0883	0.0891	0.0916
10	16QAM	1	49	22.05	21.86	21.92	0.0902	0.0863	0.0875
10	16QAM	25	0	20.88	20.85	20.80	0.0689	0.0684	0.0676
10	16QAM	25	12	20.90	21.01	20.88	0.0692	0.0710	0.0689
10	16QAM	25	25	21.00	21.01	20.93	0.0708	0.0710	0.0697
10	16QAM	50	0	20.85	20.99	20.93	0.0684	0.0706	0.0697
10	64QAM	1	0	20.66	20.76	20.67	0.0655	0.0670	0.0656
10	64QAM	1	25	20.80	20.83	20.63	0.0676	0.0681	0.0650
10	64QAM	1	49	20.65	20.72	20.52	0.0653	0.0664	0.0634
10	64QAM	25	0	19.79	19.81	19.71	0.0536	0.0538	0.0526
10	64QAM	25	12	19.81	19.87	19.80	0.0538	0.0546	0.0537
10	64QAM	25	25	19.74	19.90	19.86	0.0530	0.0550	0.0545
10	64QAM	50	0	19.83	19.93	19.83	0.0541	0.0553	0.0541
Channel				20775	21100	21425	EIRP(W)		
Frequency (MHz)				2502.5	2535	2567.5	L	M	H
5	QPSK	1	0	22.21	22.26	22.22	0.0935	0.0946	0.0938
5	QPSK	1	12	22.68	22.67	22.62	0.1042	0.1040	0.1028
5	QPSK	1	24	22.19	22.33	22.25	0.0931	0.0962	0.0944
5	QPSK	12	0	21.90	22.08	21.95	0.0871	0.0908	0.0881

5	QPSK	12	7	21.96	22.04	21.97	0.0883	0.0899	0.0885
5	QPSK	12	13	21.86	22.11	21.89	0.0863	0.0914	0.0869
5	QPSK	25	0	21.79	21.91	21.84	0.0849	0.0873	0.0859
5	16QAM	1	0	21.69	21.73	21.78	0.0830	0.0838	0.0847
5	16QAM	1	12	21.99	22.02	22.10	0.0889	0.0895	0.0912
5	16QAM	1	24	21.91	21.93	21.89	0.0873	0.0877	0.0869
5	16QAM	12	0	20.84	20.94	20.81	0.0682	0.0698	0.0678
5	16QAM	12	7	20.89	20.99	20.89	0.0690	0.0706	0.0690
5	16QAM	12	13	20.91	20.88	20.86	0.0693	0.0689	0.0685
5	16QAM	25	0	20.90	21.01	20.93	0.0692	0.0710	0.0697
5	64QAM	1	0	20.64	20.84	20.64	0.0652	0.0682	0.0652
5	64QAM	1	12	20.74	20.68	20.77	0.0667	0.0658	0.0671
5	64QAM	1	24	20.61	20.65	20.51	0.0647	0.0653	0.0632
5	64QAM	12	0	19.74	19.91	19.81	0.0530	0.0551	0.0538
5	64QAM	12	7	19.82	19.81	19.79	0.0540	0.0538	0.0536
5	64QAM	12	13	19.94	19.93	19.87	0.0555	0.0553	0.0546
5	64QAM	25	0	19.82	19.97	19.76	0.0540	0.0558	0.0532

LTE Band 38_ANT0:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610	L	M	H
20	QPSK	1	0	22.65	22.56	22.51	0.0989	0.0968	0.0957
20	QPSK	1	49	23.00	23.04	23.02	0.1072	0.1081	0.1076
20	QPSK	1	99	22.66	22.60	22.69	0.0991	0.0977	0.0998
20	QPSK	50	0	22.27	22.29	22.26	0.0906	0.0910	0.0904
20	QPSK	50	24	22.18	22.20	22.22	0.0887	0.0891	0.0895
20	QPSK	50	50	22.25	22.25	22.16	0.0902	0.0902	0.0883
20	QPSK	100	0	22.21	22.26	22.25	0.0893	0.0904	0.0902
20	16QAM	1	0	22.08	22.00	21.99	0.0867	0.0851	0.0849
20	16QAM	1	49	22.13	22.18	22.17	0.0877	0.0887	0.0885
20	16QAM	1	99	22.07	22.11	22.14	0.0865	0.0873	0.0879
20	16QAM	50	0	21.23	21.17	21.19	0.0713	0.0703	0.0706
20	16QAM	50	24	21.33	21.20	21.24	0.0729	0.0708	0.0714
20	16QAM	50	50	21.32	21.33	21.33	0.0728	0.0729	0.0729
20	16QAM	100	0	21.35	21.26	21.33	0.0733	0.0718	0.0729
20	64QAM	1	0	20.85	20.77	20.76	0.0653	0.0641	0.0640
20	64QAM	1	49	20.99	20.93	21.03	0.0675	0.0665	0.0681
20	64QAM	1	99	20.84	20.75	20.82	0.0652	0.0638	0.0649
20	64QAM	50	0	20.28	20.15	20.21	0.0573	0.0556	0.0564
20	64QAM	50	24	20.29	20.17	20.26	0.0574	0.0558	0.0570
20	64QAM	50	50	20.25	20.17	20.31	0.0569	0.0558	0.0577
20	64QAM	100	0	20.29	20.22	20.29	0.0574	0.0565	0.0574
Channel				37825	38000	38175	EIRP(W)		
Frequency (MHz)				2577.5	2595	2612.5	L	M	H

15	QPSK	1	0	22.58	22.39	22.48	0.0973	0.0931	0.0951
15	QPSK	1	37	22.91	22.98	22.88	0.1050	0.1067	0.1042
15	QPSK	1	74	22.61	22.50	22.64	0.0979	0.0955	0.0986
15	QPSK	36	0	22.18	22.14	22.19	0.0887	0.0879	0.0889
15	QPSK	36	20	22.13	22.10	22.14	0.0877	0.0871	0.0879
15	QPSK	36	39	22.06	22.20	22.15	0.0863	0.0891	0.0881
15	QPSK	75	0	22.18	22.21	22.16	0.0887	0.0893	0.0883
15	16QAM	1	0	21.93	21.96	21.99	0.0838	0.0843	0.0849
15	16QAM	1	37	21.98	22.13	22.16	0.0847	0.0877	0.0883
15	16QAM	1	74	22.08	21.99	22.09	0.0867	0.0849	0.0869
15	16QAM	36	0	21.28	21.05	21.13	0.0721	0.0684	0.0697
15	16QAM	36	20	21.23	21.15	21.26	0.0713	0.0700	0.0718
15	16QAM	36	39	21.18	21.18	21.20	0.0705	0.0705	0.0708
15	16QAM	75	0	21.27	21.17	21.20	0.0719	0.0703	0.0708
15	64QAM	1	0	20.80	20.71	20.64	0.0646	0.0632	0.0622
15	64QAM	1	37	20.92	20.93	20.93	0.0664	0.0665	0.0665
15	64QAM	1	74	20.74	20.70	20.70	0.0637	0.0631	0.0631
15	64QAM	36	0	20.10	20.10	20.14	0.0550	0.0550	0.0555
15	64QAM	36	20	20.11	20.09	20.08	0.0551	0.0548	0.0547
15	64QAM	36	39	20.14	20.03	20.22	0.0555	0.0541	0.0565
15	64QAM	75	0	20.14	20.12	20.17	0.0555	0.0552	0.0558
Channel				37800	38000	38200	EIRP(W)		
Frequency (MHz)				2575	2595	2615	L	M	H
10	QPSK	1	0	22.54	22.46	22.52	0.0964	0.0946	0.0959
10	QPSK	1	25	22.94	23.01	22.99	0.1057	0.1074	0.1069
10	QPSK	1	49	22.55	22.63	22.64	0.0966	0.0984	0.0986
10	QPSK	25	0	22.11	22.19	22.13	0.0873	0.0889	0.0877
10	QPSK	25	12	22.13	22.12	22.12	0.0877	0.0875	0.0875
10	QPSK	25	25	22.20	22.20	22.11	0.0891	0.0891	0.0873
10	QPSK	50	0	22.02	22.09	22.12	0.0855	0.0869	0.0875
10	16QAM	1	0	21.99	21.89	21.94	0.0849	0.0830	0.0839
10	16QAM	1	25	22.01	22.09	22.13	0.0853	0.0869	0.0877
10	16QAM	1	49	22.01	21.95	22.06	0.0853	0.0841	0.0863
10	16QAM	25	0	21.13	21.12	21.12	0.0697	0.0695	0.0695
10	16QAM	25	12	21.27	21.05	21.23	0.0719	0.0684	0.0713
10	16QAM	25	25	21.22	21.28	21.28	0.0711	0.0721	0.0721
10	16QAM	50	0	21.33	21.14	21.22	0.0729	0.0698	0.0711
10	64QAM	1	0	20.76	20.66	20.57	0.0640	0.0625	0.0612
10	64QAM	1	25	20.84	20.87	20.97	0.0652	0.0656	0.0671
10	64QAM	1	49	20.64	20.64	20.64	0.0622	0.0622	0.0622
10	64QAM	25	0	20.19	20.04	20.05	0.0561	0.0542	0.0543
10	64QAM	25	12	20.20	20.05	20.08	0.0562	0.0543	0.0547
10	64QAM	25	25	20.19	20.11	20.23	0.0561	0.0551	0.0566
10	64QAM	50	0	20.20	20.19	20.20	0.0562	0.0561	0.0562
Channel				37775	38000	38225	EIRP(W)		
Frequency (MHz)				2572.5	2595	2617.5	L	M	H
5	QPSK	1	0	22.60	22.39	22.42	0.0977	0.0931	0.0938
5	QPSK	1	12	22.94	22.99	22.94	0.1057	0.1069	0.1057

5	QPSK	1	24	22.59	22.57	22.64	0.0975	0.0971	0.0986
5	QPSK	12	0	22.22	22.14	22.12	0.0895	0.0879	0.0875
5	QPSK	12	7	22.11	22.13	22.11	0.0873	0.0877	0.0873
5	QPSK	12	13	22.13	22.28	22.15	0.0877	0.0908	0.0881
5	QPSK	25	0	22.08	22.19	22.18	0.0867	0.0889	0.0887
5	16QAM	1	0	22.00	21.94	21.93	0.0851	0.0839	0.0838
5	16QAM	1	12	22.01	22.11	22.13	0.0853	0.0873	0.0877
5	16QAM	1	24	22.02	22.07	21.99	0.0855	0.0865	0.0849
5	16QAM	12	0	21.18	21.09	21.06	0.0705	0.0690	0.0685
5	16QAM	12	7	21.27	21.15	21.18	0.0719	0.0700	0.0705
5	16QAM	12	13	21.25	21.18	21.17	0.0716	0.0705	0.0703
5	16QAM	25	0	21.25	21.23	21.25	0.0716	0.0713	0.0716
5	64QAM	1	0	20.78	20.59	20.60	0.0643	0.0615	0.0617
5	64QAM	1	12	20.87	20.86	20.95	0.0656	0.0655	0.0668
5	64QAM	1	24	20.73	20.67	20.72	0.0635	0.0627	0.0634
5	64QAM	12	0	20.20	20.05	20.18	0.0562	0.0543	0.0560
5	64QAM	12	7	20.23	20.17	20.09	0.0566	0.0558	0.0548
5	64QAM	12	13	20.09	20.15	20.23	0.0548	0.0556	0.0566
5	64QAM	25	0	20.23	20.23	20.11	0.0566	0.0566	0.0551

LTE Band 41_ANT0:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Low Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				40140	40640	41140			
Frequency (MHz)				2545	2595	2645	L	M	H
20	QPSK	1	0	22.68	22.86	22.79	0.1019	0.1062	0.1045
20	QPSK	1	49	22.85	23.07	22.97	0.1059	0.1114	0.1089
20	QPSK	1	99	22.63	22.78	22.66	0.1007	0.1042	0.1014
20	QPSK	50	0	21.85	21.98	21.92	0.0841	0.0867	0.0855
20	QPSK	50	24	21.84	21.93	21.80	0.0839	0.0857	0.0832
20	QPSK	50	50	21.73	21.92	21.80	0.0818	0.0855	0.0832
20	QPSK	100	0	21.86	21.99	21.90	0.0843	0.0869	0.0851
20	16QAM	1	0	21.89	21.98	21.85	0.0849	0.0867	0.0841
20	16QAM	1	49	22.01	22.12	21.99	0.0873	0.0895	0.0869
20	16QAM	1	99	22.03	22.04	21.95	0.0877	0.0879	0.0861
20	16QAM	50	0	20.95	21.00	20.91	0.0684	0.0692	0.0678
20	16QAM	50	24	20.94	20.99	20.95	0.0682	0.0690	0.0684
20	16QAM	50	50	20.72	20.93	20.85	0.0649	0.0681	0.0668
20	16QAM	100	0	20.94	20.98	20.92	0.0682	0.0689	0.0679
20	64QAM	1	0	20.27	20.48	20.29	0.0585	0.0614	0.0587
20	64QAM	1	49	20.50	20.57	20.43	0.0617	0.0627	0.0607
20	64QAM	1	99	20.31	20.52	20.40	0.0590	0.0619	0.0603
20	64QAM	50	0	19.88	19.94	19.90	0.0535	0.0542	0.0537
20	64QAM	50	24	19.94	20.06	19.98	0.0542	0.0557	0.0547
20	64QAM	50	50	19.95	19.96	19.82	0.0543	0.0545	0.0527
20	64QAM	100	0	20.01	19.97	19.91	0.0551	0.0546	0.0538

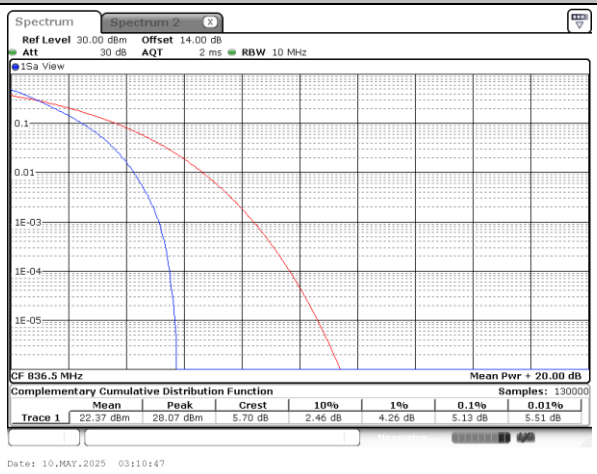
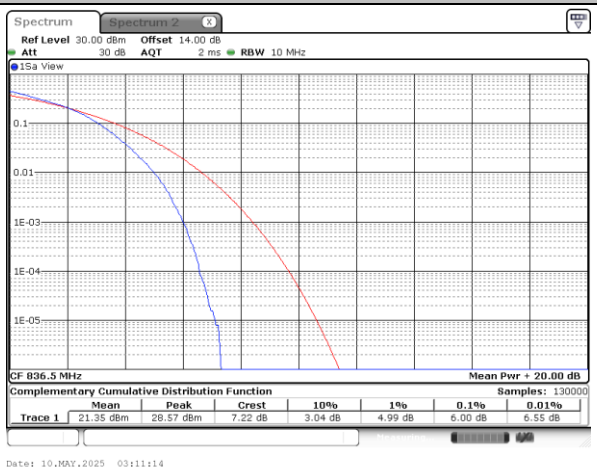
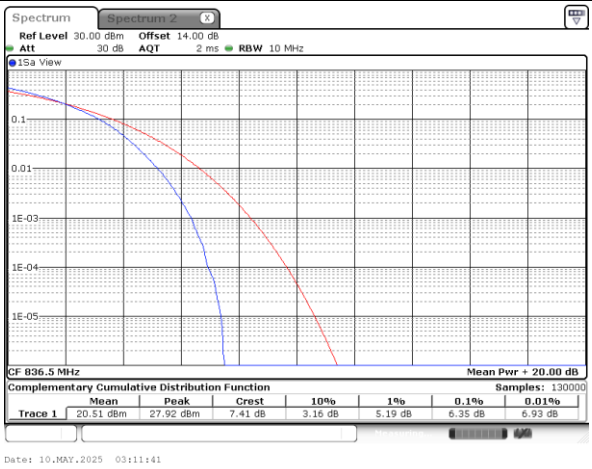
Channel				40115	40640	41165	EIRP(W)		
Frequency (MHz)				2542.5	2595	2647.5	L	M	H
15	QPSK	1	0	22.60	22.82	22.77	0.1000	0.1052	0.1040
15	QPSK	1	37	22.86	22.96	22.87	0.1062	0.1086	0.1064
15	QPSK	1	74	22.56	22.73	22.60	0.0991	0.1030	0.1000
15	QPSK	36	0	21.80	21.93	21.91	0.0832	0.0857	0.0853
15	QPSK	36	20	21.73	21.89	21.69	0.0818	0.0849	0.0811
15	QPSK	36	39	21.61	21.74	21.71	0.0796	0.0820	0.0815
15	QPSK	75	0	21.80	21.88	21.87	0.0832	0.0847	0.0845
15	16QAM	1	0	21.75	21.87	21.77	0.0822	0.0845	0.0826
15	16QAM	1	37	21.98	22.08	21.82	0.0867	0.0887	0.0836
15	16QAM	1	74	21.98	21.98	21.89	0.0867	0.0867	0.0849
15	16QAM	36	0	20.86	20.94	20.83	0.0670	0.0682	0.0665
15	16QAM	36	20	20.79	20.87	20.94	0.0659	0.0671	0.0682
15	16QAM	36	39	20.67	20.83	20.74	0.0641	0.0665	0.0652
15	16QAM	75	0	20.90	20.81	20.76	0.0676	0.0662	0.0655
15	64QAM	1	0	20.22	20.31	20.14	0.0578	0.0590	0.0568
15	64QAM	1	37	20.36	20.50	20.32	0.0597	0.0617	0.0592
15	64QAM	1	74	20.28	20.37	20.35	0.0586	0.0598	0.0596
15	64QAM	36	0	19.79	19.96	19.84	0.0524	0.0545	0.0530
15	64QAM	36	20	19.81	19.86	19.94	0.0526	0.0532	0.0542
15	64QAM	36	39	19.88	19.88	19.84	0.0535	0.0535	0.0530
15	64QAM	75	0	19.86	19.87	19.81	0.0532	0.0533	0.0526
Channel				40090	40640	41190	EIRP(W)		
Frequency (MHz)				2540	2595	2650	L	M	H
10	QPSK	1	0	22.73	22.88	22.70	0.1030	0.1067	0.1023
10	QPSK	1	25	22.76	23.06	22.93	0.1038	0.1112	0.1079
10	QPSK	1	49	22.57	22.60	22.62	0.0993	0.1000	0.1005
10	QPSK	25	0	21.75	21.88	21.84	0.0822	0.0847	0.0839
10	QPSK	25	12	21.71	21.92	21.71	0.0815	0.0855	0.0815
10	QPSK	25	25	21.58	21.94	21.69	0.0791	0.0859	0.0811
10	QPSK	50	0	21.77	21.91	21.80	0.0826	0.0853	0.0832
10	16QAM	1	0	21.72	21.98	21.76	0.0817	0.0867	0.0824
10	16QAM	1	25	21.88	21.99	21.86	0.0847	0.0869	0.0843
10	16QAM	1	49	21.95	21.94	21.90	0.0861	0.0859	0.0851
10	16QAM	25	0	20.82	20.85	20.84	0.0664	0.0668	0.0667
10	16QAM	25	12	20.80	21.00	20.81	0.0661	0.0692	0.0662
10	16QAM	25	25	20.65	20.80	20.81	0.0638	0.0661	0.0662
10	16QAM	50	0	20.79	20.82	20.75	0.0659	0.0664	0.0653
10	64QAM	1	0	20.18	20.37	20.20	0.0573	0.0598	0.0575
10	64QAM	1	25	20.42	20.51	20.47	0.0605	0.0618	0.0612
10	64QAM	1	49	20.26	20.41	20.24	0.0583	0.0604	0.0581
10	64QAM	25	0	19.82	19.97	19.84	0.0527	0.0546	0.0530
10	64QAM	25	12	19.88	19.93	19.88	0.0535	0.0541	0.0535
10	64QAM	25	25	19.87	19.85	19.82	0.0533	0.0531	0.0527
10	64QAM	50	0	19.98	19.98	19.85	0.0547	0.0547	0.0531
Channel				40065	40640	41215	EIRP(W)		
Frequency (MHz)				2537.5	2595	2652.5	L	M	H

5	QPSK	1	0	22.68	22.92	22.78	0.1019	0.1076	0.1042
5	QPSK	1	12	22.79	22.96	22.89	0.1045	0.1086	0.1069
5	QPSK	1	24	22.58	22.77	22.64	0.0995	0.1040	0.1009
5	QPSK	12	0	21.73	21.89	21.88	0.0818	0.0849	0.0847
5	QPSK	12	7	21.68	21.89	21.76	0.0809	0.0849	0.0824
5	QPSK	12	13	21.70	21.84	21.80	0.0813	0.0839	0.0832
5	QPSK	25	0	21.79	21.88	21.87	0.0830	0.0847	0.0845
5	16QAM	1	0	21.67	22.02	21.85	0.0807	0.0875	0.0841
5	16QAM	1	12	21.85	22.03	21.82	0.0841	0.0877	0.0836
5	16QAM	1	24	21.91	21.95	21.93	0.0853	0.0861	0.0857
5	16QAM	12	0	20.84	20.93	20.79	0.0667	0.0681	0.0659
5	16QAM	12	7	20.89	20.92	20.76	0.0675	0.0679	0.0655
5	16QAM	12	13	20.65	20.84	20.78	0.0638	0.0667	0.0658
5	16QAM	25	0	20.81	20.93	20.73	0.0662	0.0681	0.0650
5	64QAM	1	0	20.17	20.46	20.24	0.0571	0.0611	0.0581
5	64QAM	1	12	20.39	20.54	20.35	0.0601	0.0622	0.0596
5	64QAM	1	24	20.18	20.42	20.31	0.0573	0.0605	0.0590
5	64QAM	12	0	19.91	19.84	19.79	0.0538	0.0530	0.0524
5	64QAM	12	7	19.92	19.95	19.94	0.0540	0.0543	0.0542
5	64QAM	12	13	19.82	19.96	19.71	0.0527	0.0545	0.0514
5	64QAM	25	0	19.98	19.87	19.94	0.0547	0.0533	0.0542

LTE Band 5

Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.13	6.00	6.35	PASS

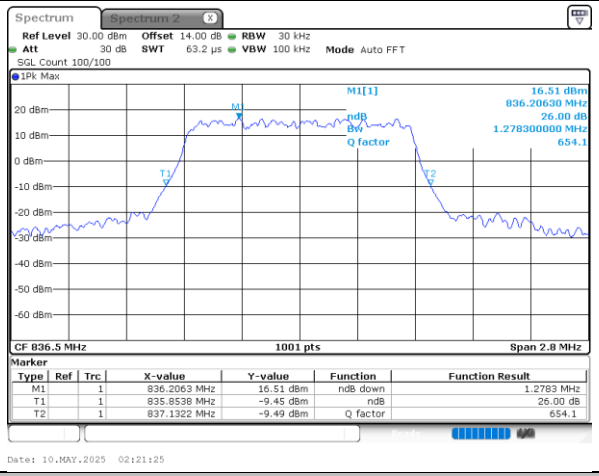
LTE Band 5 / 10MHz / QPSK	LTE Band 5 / 10MHz / 16QAM
Middle Channel / Full RB	**Middle Channel / Full RB**
	
LTE Band 5 / 10MHz / 64QAM	
Middle Channel / Full RB	
	

26dB Bandwidth

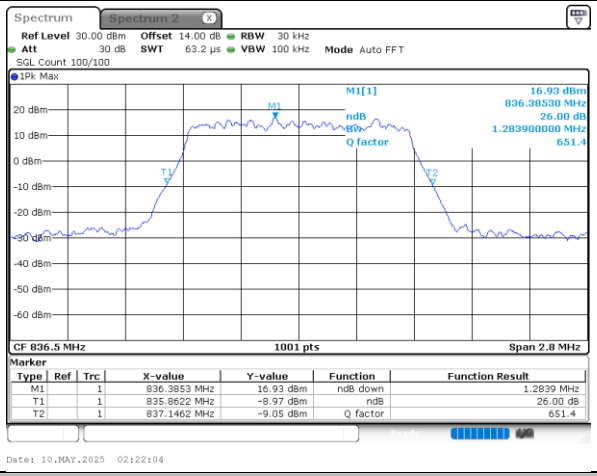
Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.28	1.28	2.93	2.94	4.85	4.82	9.67	9.81	-	-	-	-

LTE Band 5

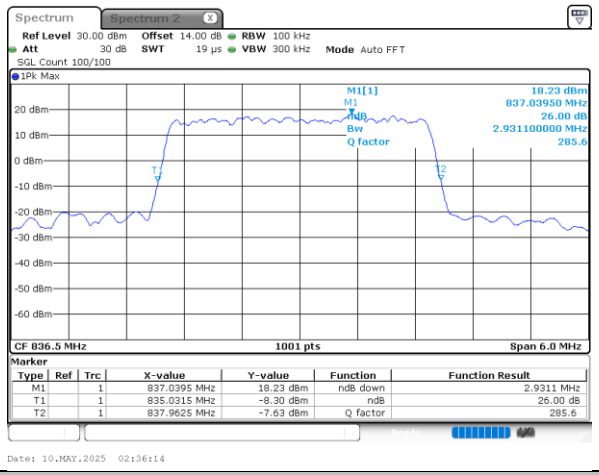
Middle Channel / 1.4MHz / QPSK



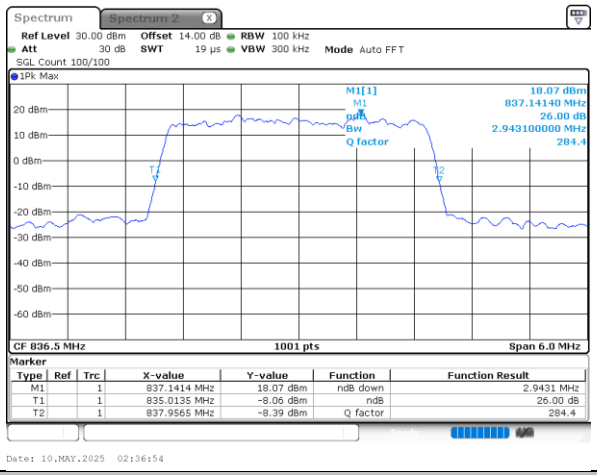
Middle Channel / 1.4MHz / 16QAM



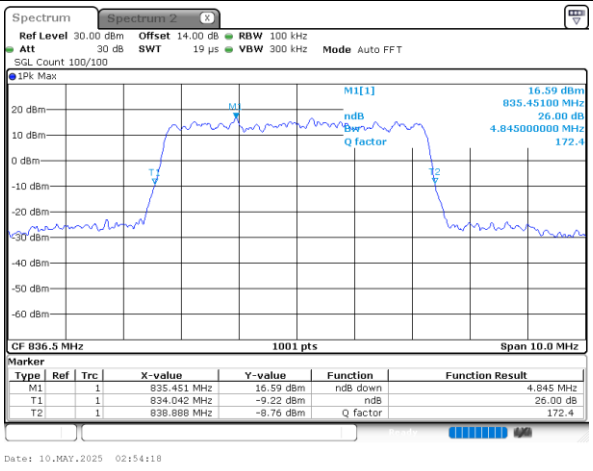
Middle Channel / 3MHz / QPSK



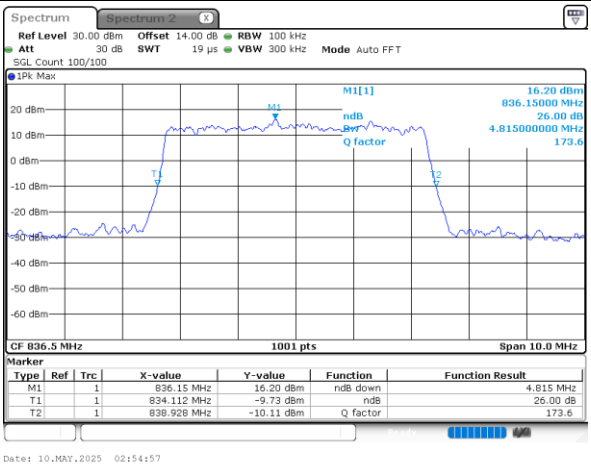
Middle Channel / 3MHz / 16QAM



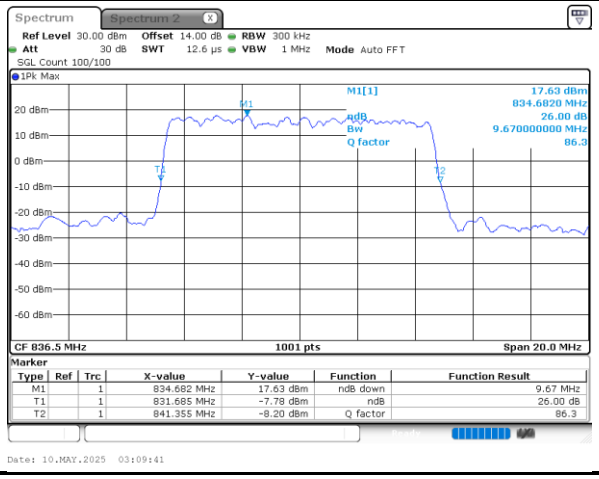
Middle Channel / 5MHz / QPSK

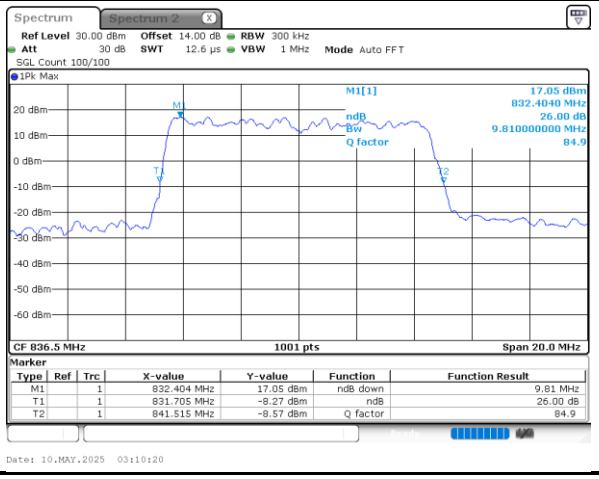


Middle Channel / 5MHz / 16QAM



LTE Band 5	
Middle Channel / 10MHz / QPSK	**Middle Channel / 10MHz / 16QAM**



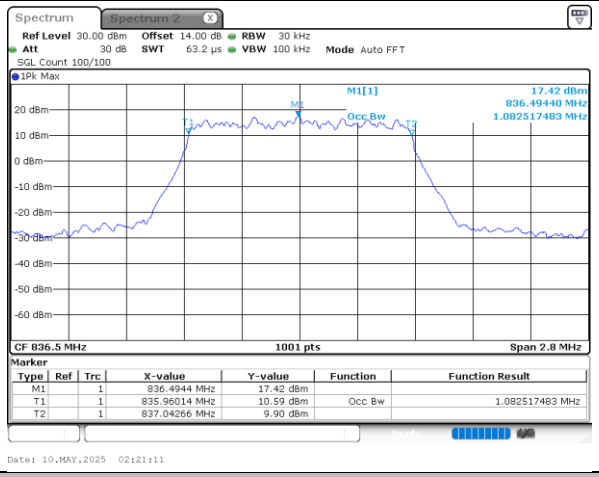


Occupied Bandwidth

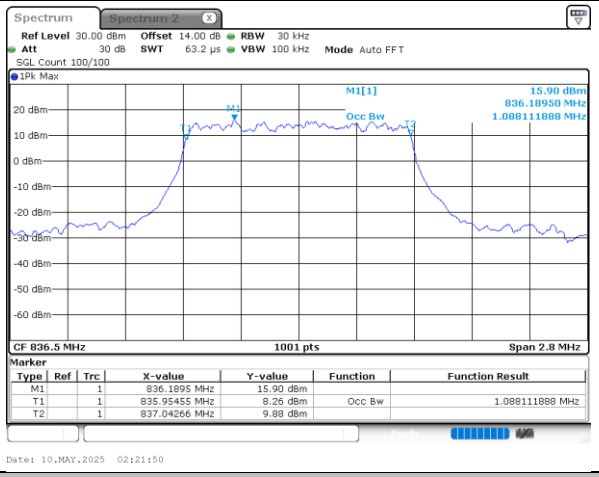
Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.08	1.09	2.71	2.70	4.48	4.49	9.07	9.05	-	-	-	-

LTE Band 5

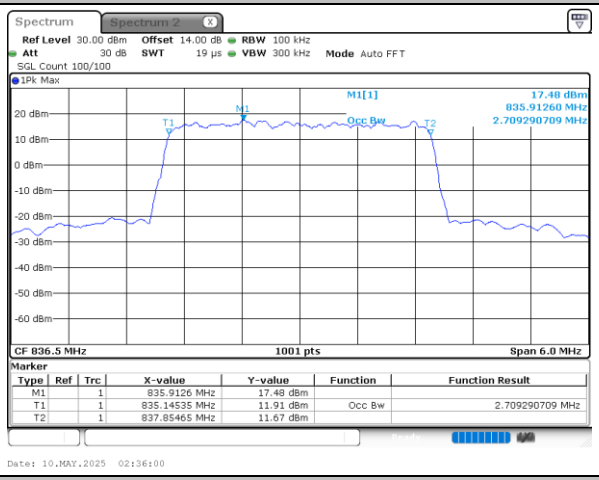
Middle Channel / 1.4MHz / QPSK



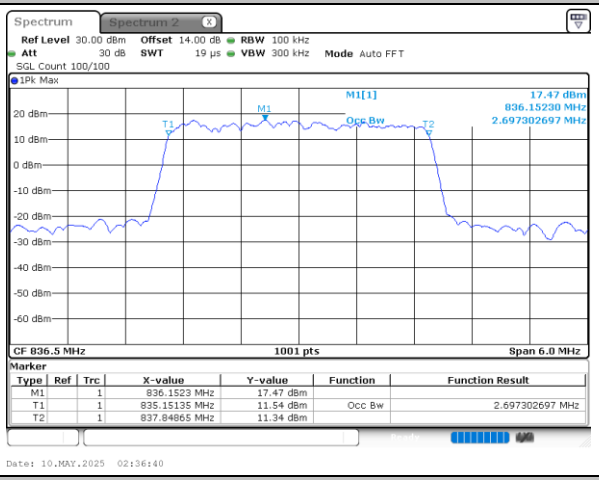
Middle Channel / 1.4MHz / 16QAM



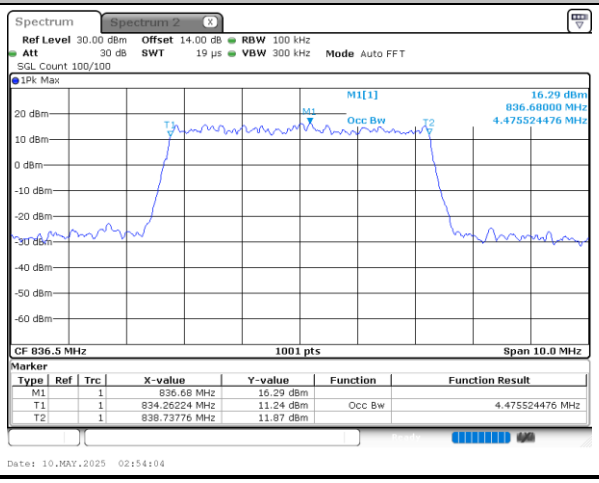
Middle Channel / 3MHz / QPSK



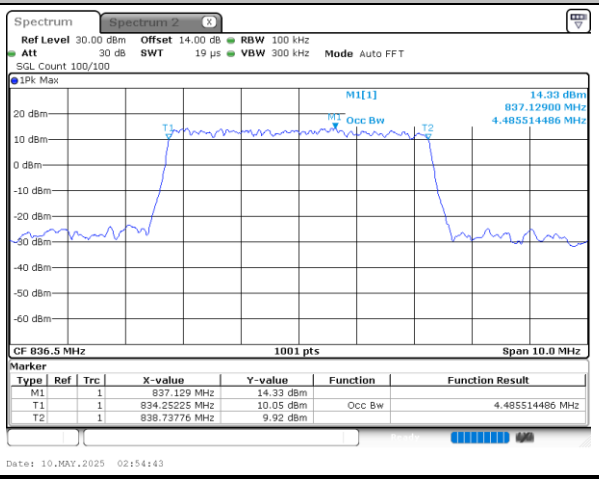
Middle Channel / 3MHz / 16QAM

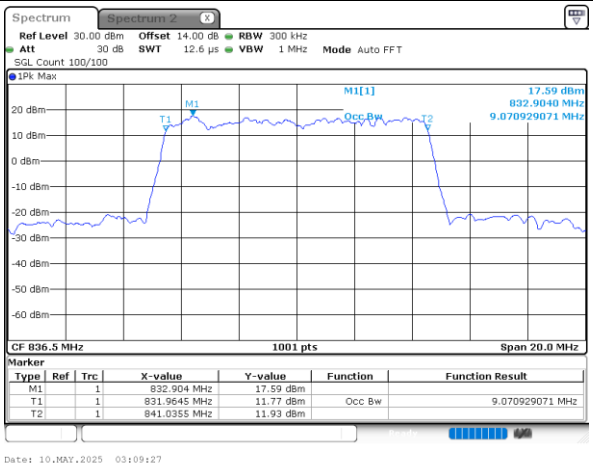
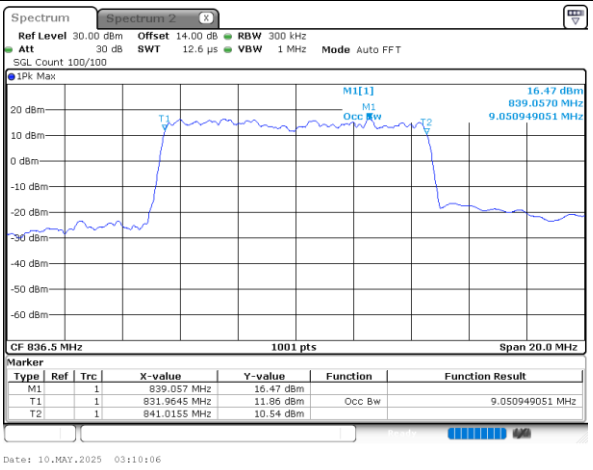


Middle Channel / 5MHz / QPSK



Middle Channel / 5MHz / 16QAM

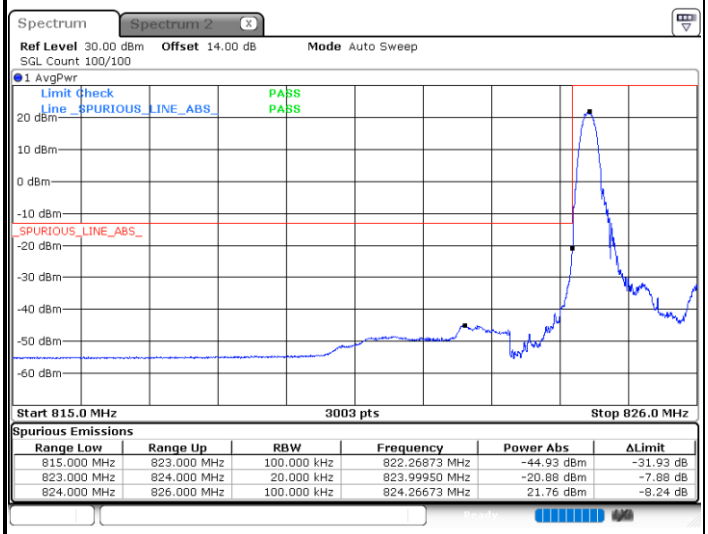


LTE Band 5	
Middle Channel / 10MHz / QPSK	**Middle Channel / 10MHz / 16QAM**
	

Conducted Band Edge

LTE Band 5 / 1.4MHz / QPSK

Lowest Band Edge / 1RB

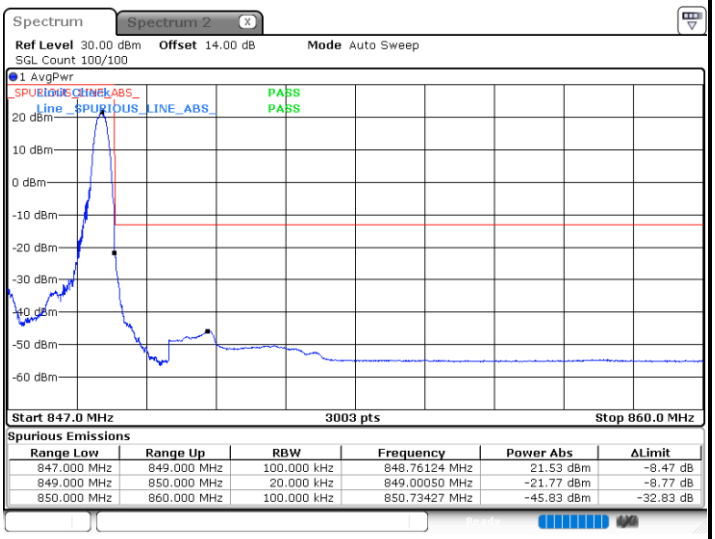


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.26873 MHz	-44.93 dBm	-31.93 dB
823.000 MHz	824.000 MHz	20.000 kHz	823.99950 MHz	-20.88 dBm	-7.88 dB
824.000 MHz	826.000 MHz	100.000 kHz	824.26673 MHz	21.76 dBm	-8.24 dB

Date: 10.MAY.2025 07:10:40

Highest Band Edge / 1RB

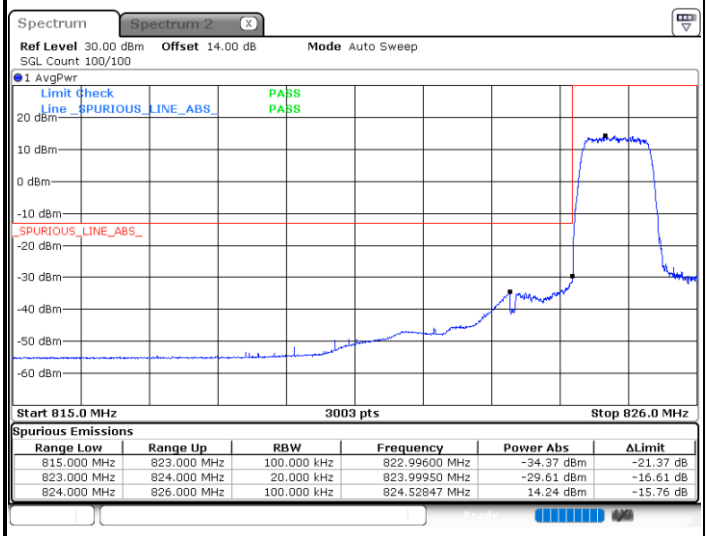


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
847.000 MHz	849.000 MHz	100.000 kHz	848.76124 MHz	21.53 dBm	-8.47 dB
849.000 MHz	850.000 MHz	20.000 kHz	849.00050 MHz	-21.77 dBm	-8.77 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.73427 MHz	-45.83 dBm	-32.83 dB

Date: 10.MAY.2025 07:17:46

Lowest Band Edge / Full RB

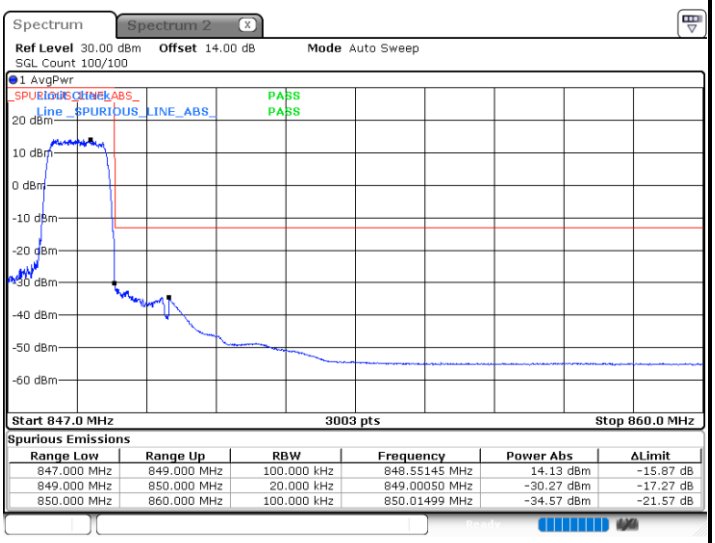


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.99600 MHz	-34.37 dBm	-21.37 dB
823.000 MHz	824.000 MHz	20.000 kHz	823.99950 MHz	-29.61 dBm	-16.61 dB
824.000 MHz	826.000 MHz	100.000 kHz	824.52847 MHz	14.24 dBm	-15.76 dB

Date: 10.MAY.2025 07:13:13

Highest Band Edge / Full RB



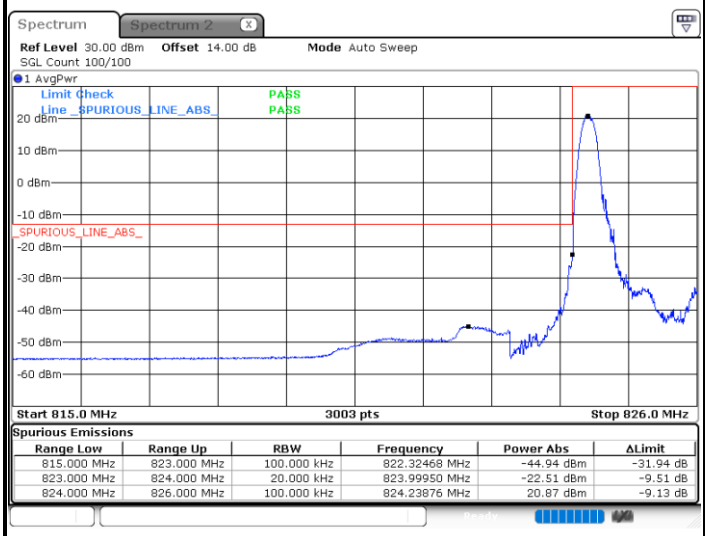
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
847.000 MHz	849.000 MHz	100.000 kHz	848.55145 MHz	14.13 dBm	-15.87 dB
849.000 MHz	850.000 MHz	20.000 kHz	849.00050 MHz	-30.27 dBm	-17.27 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.01499 MHz	-34.57 dBm	-21.57 dB

Date: 10.MAY.2025 07:20:19

LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

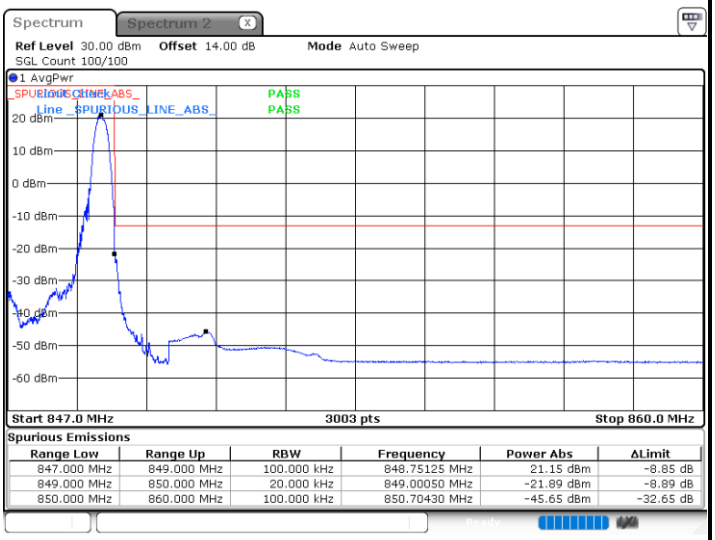


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.32468 MHz	-44.94 dBm	-31.94 dB
823.000 MHz	824.000 MHz	20.000 kHz	823.99950 MHz	-22.51 dBm	-9.51 dB
824.000 MHz	826.000 MHz	100.000 kHz	824.23876 MHz	20.87 dBm	-9.13 dB

Date: 10.MAY.2025 07:11:31

Highest Band Edge / 1 RB

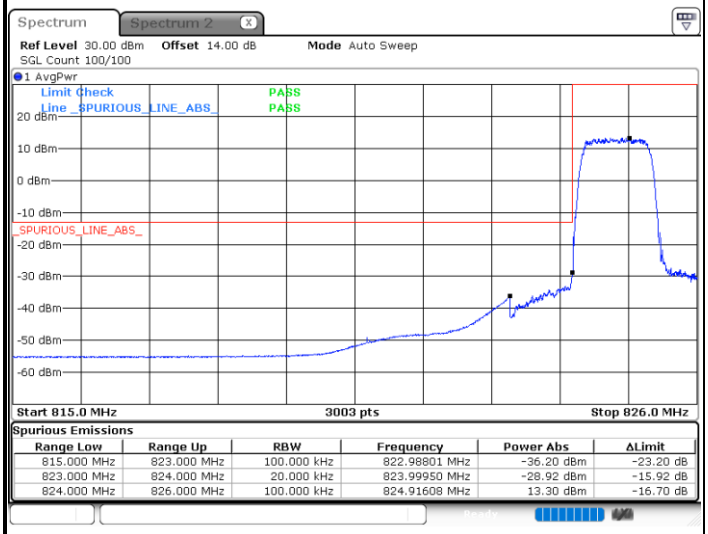


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
847.000 MHz	849.000 MHz	100.000 kHz	848.75125 MHz	21.15 dBm	-8.85 dB
849.000 MHz	850.000 MHz	20.000 kHz	849.00050 MHz	-21.89 dBm	-8.89 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.70430 MHz	-45.65 dBm	-32.65 dB

Date: 10.MAY.2025 07:18:37

Lowest Band Edge / Full RB

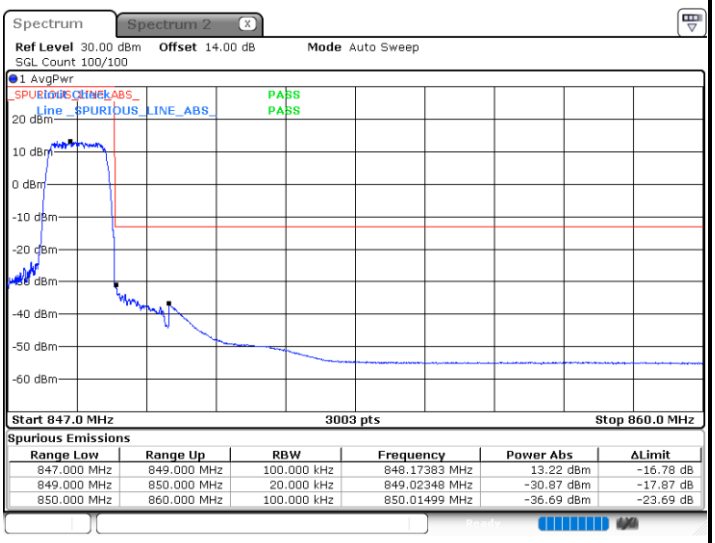


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.98801 MHz	-36.20 dBm	-23.20 dB
823.000 MHz	824.000 MHz	20.000 kHz	823.99950 MHz	-28.92 dBm	-15.92 dB
824.000 MHz	826.000 MHz	100.000 kHz	824.91608 MHz	13.30 dBm	-16.70 dB

Date: 10.MAY.2025 07:14:04

Highest Band Edge / Full RB



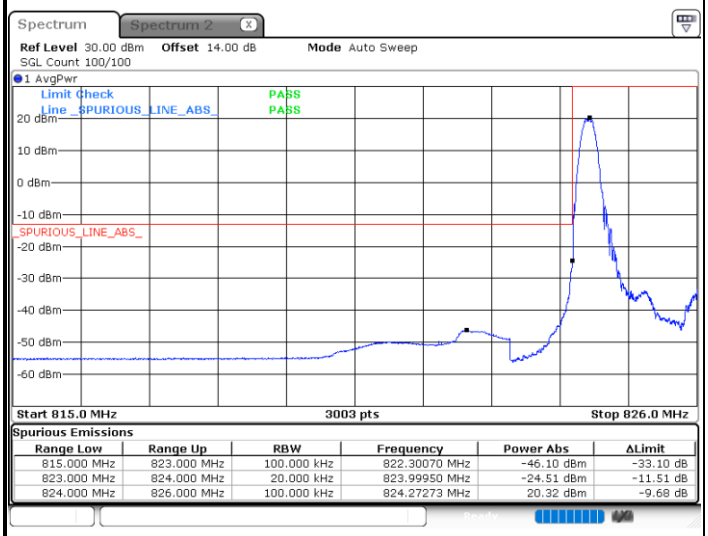
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
847.000 MHz	849.000 MHz	100.000 kHz	848.17383 MHz	13.22 dBm	-16.78 dB
849.000 MHz	850.000 MHz	20.000 kHz	849.02348 MHz	-30.87 dBm	-17.87 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.01499 MHz	-36.69 dBm	-23.69 dB

Date: 10.MAY.2025 07:21:10

LTE Band 5 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB

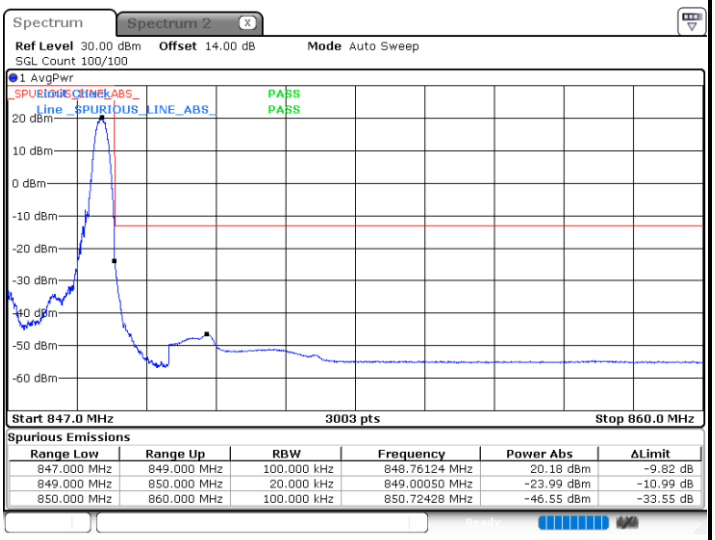


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.30070 MHz	-46.10 dBm	-33.10 dB
823.000 MHz	824.000 MHz	20.000 kHz	823.99950 MHz	-24.51 dBm	-11.51 dB
824.000 MHz	826.000 MHz	100.000 kHz	824.27273 MHz	20.32 dBm	-9.68 dB

Date: 10.MAY.2025 07:12:22

Highest Band Edge / 1 RB

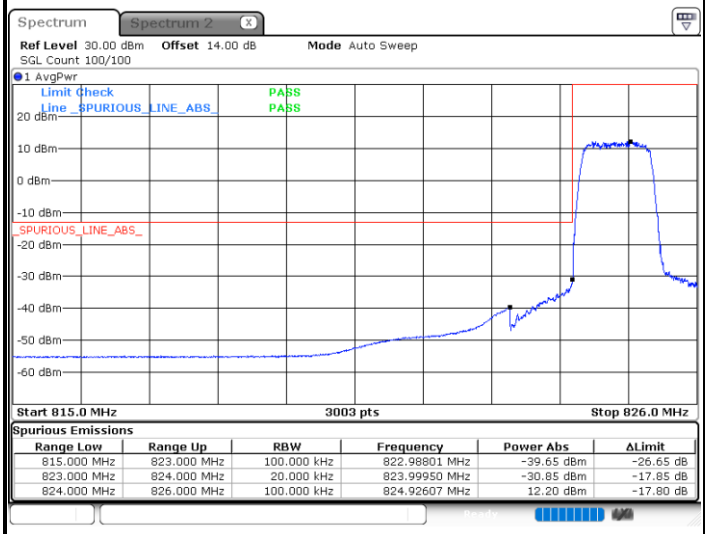


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
847.000 MHz	849.000 MHz	100.000 kHz	848.76124 MHz	20.18 dBm	-9.82 dB
849.000 MHz	850.000 MHz	20.000 kHz	849.00050 MHz	-23.99 dBm	-10.99 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.72428 MHz	-46.55 dBm	-33.55 dB

Date: 10.MAY.2025 07:19:28

Lowest Band Edge / Full RB

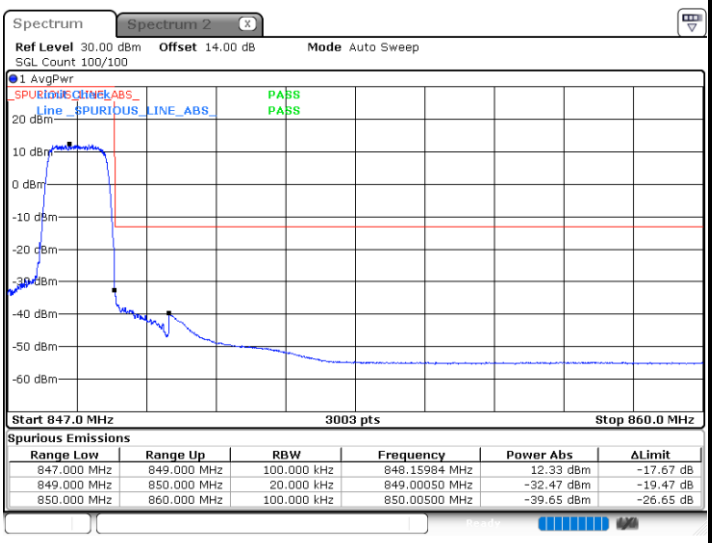


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.98801 MHz	-39.65 dBm	-26.65 dB
823.000 MHz	824.000 MHz	20.000 kHz	823.99950 MHz	-30.85 dBm	-17.85 dB
824.000 MHz	826.000 MHz	100.000 kHz	824.92607 MHz	12.20 dBm	-17.80 dB

Date: 10.MAY.2025 07:14:55

Highest Band Edge / Full RB



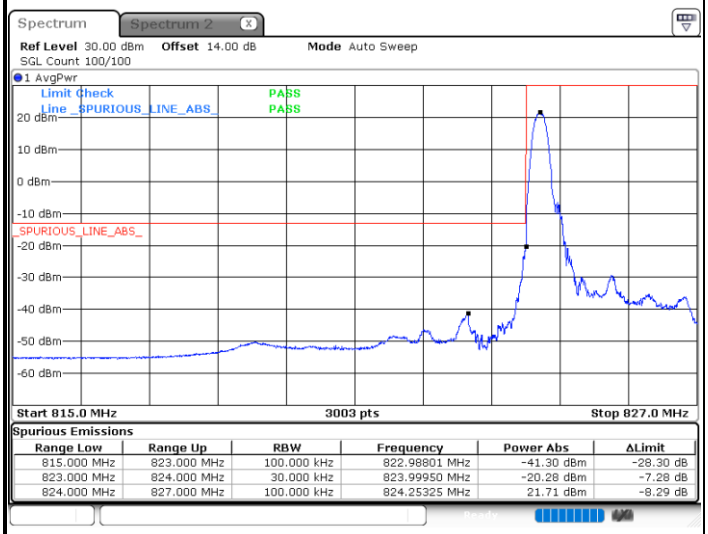
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
847.000 MHz	849.000 MHz	100.000 kHz	848.15984 MHz	12.33 dBm	-17.67 dB
849.000 MHz	850.000 MHz	20.000 kHz	849.00050 MHz	-32.47 dBm	-19.47 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.00500 MHz	-39.65 dBm	-26.65 dB

Date: 10.MAY.2025 07:22:01

LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB

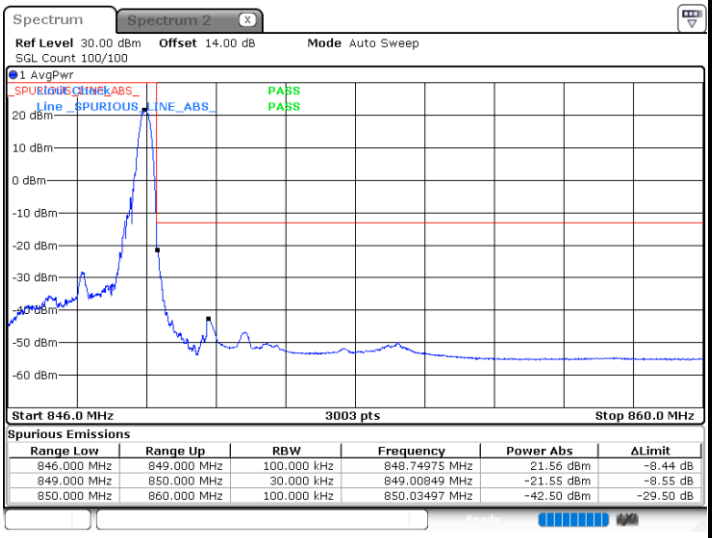


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.98801 MHz	-41.30 dBm	-28.30 dB
823.000 MHz	824.000 MHz	30.000 kHz	823.99950 MHz	-20.28 dBm	-7.28 dB
824.000 MHz	827.000 MHz	100.000 kHz	824.25325 MHz	21.71 dBm	-8.29 dB

Date: 10.MAY.2025 07:24:35

Highest Band Edge / 1RB

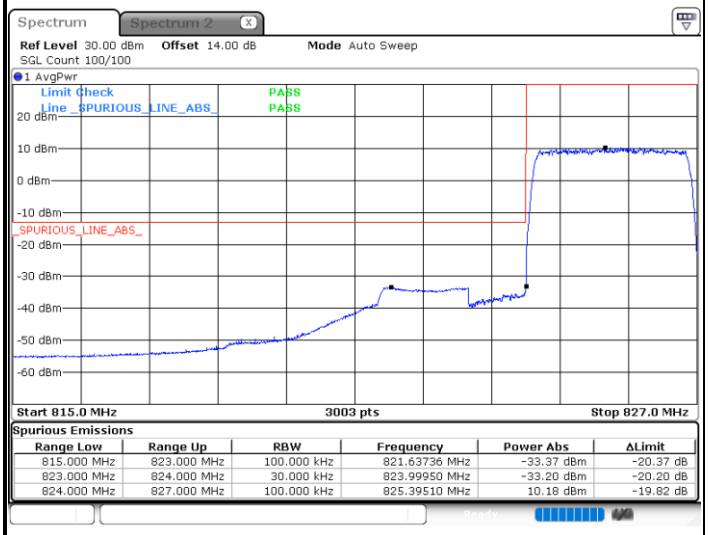


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
846.000 MHz	849.000 MHz	100.000 kHz	848.74975 MHz	21.56 dBm	-8.44 dB
849.000 MHz	850.000 MHz	30.000 kHz	849.00849 MHz	-21.55 dBm	-8.55 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.03497 MHz	-42.50 dBm	-29.50 dB

Date: 10.MAY.2025 07:31:41

Lowest Band Edge / Full RB

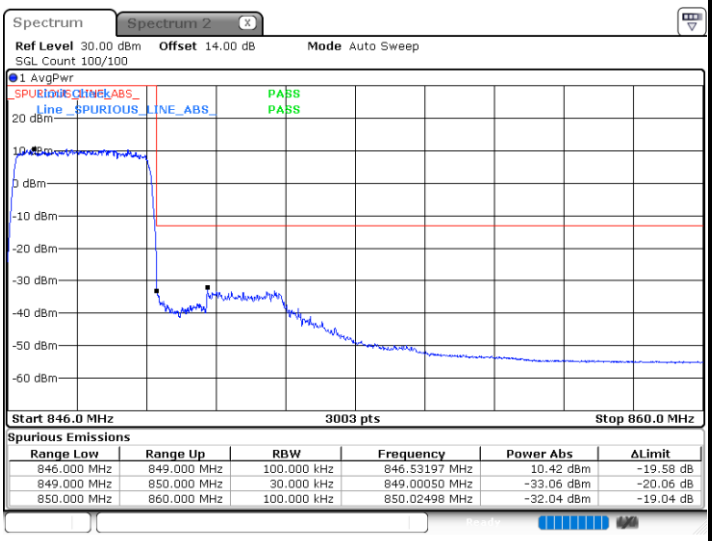


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	821.63736 MHz	-33.37 dBm	-20.37 dB
823.000 MHz	824.000 MHz	30.000 kHz	823.99950 MHz	-33.20 dBm	-20.20 dB
824.000 MHz	827.000 MHz	100.000 kHz	825.39510 MHz	10.18 dBm	-19.82 dB

Date: 10.MAY.2025 07:27:08

Highest Band Edge / Full RB



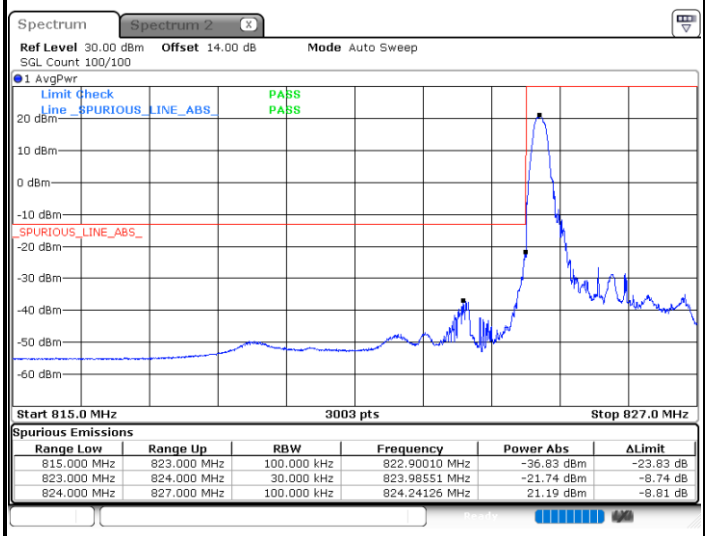
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
846.000 MHz	849.000 MHz	100.000 kHz	846.53197 MHz	10.42 dBm	-19.58 dB
849.000 MHz	850.000 MHz	30.000 kHz	849.00050 MHz	-33.06 dBm	-20.06 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.02498 MHz	-32.04 dBm	-19.04 dB

Date: 10.MAY.2025 07:34:14

LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB

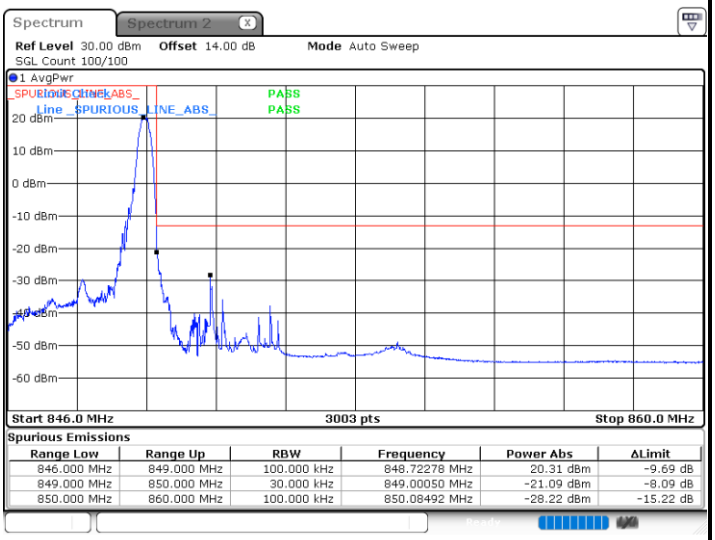


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.90010 MHz	-36.83 dBm	-23.83 dB
823.000 MHz	824.000 MHz	30.000 kHz	823.98551 MHz	-21.74 dBm	-8.74 dB
824.000 MHz	827.000 MHz	100.000 kHz	824.24126 MHz	21.19 dBm	-8.81 dB

Date: 10.MAY.2025 07:25:26

Highest Band Edge / 1 RB

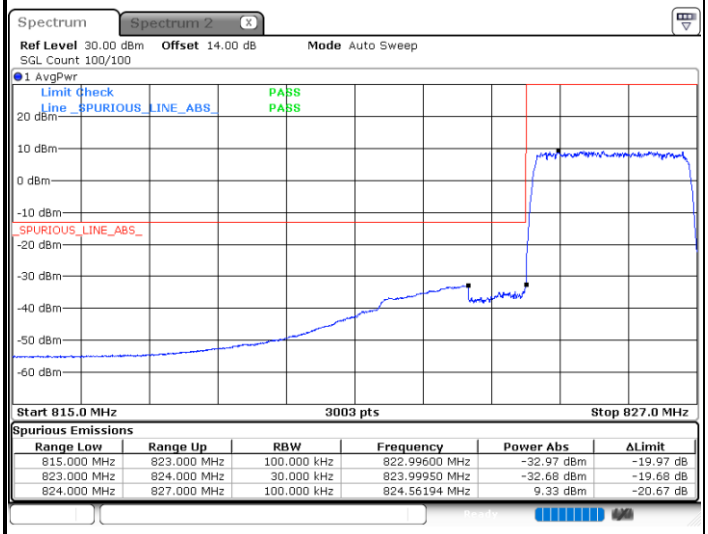


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
846.000 MHz	849.000 MHz	100.000 kHz	848.72278 MHz	20.31 dBm	-9.69 dB
849.000 MHz	850.000 MHz	30.000 kHz	849.00050 MHz	-21.09 dBm	-8.09 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.08492 MHz	-28.22 dBm	-15.22 dB

Date: 10.MAY.2025 07:32:32

Lowest Band Edge / Full RB

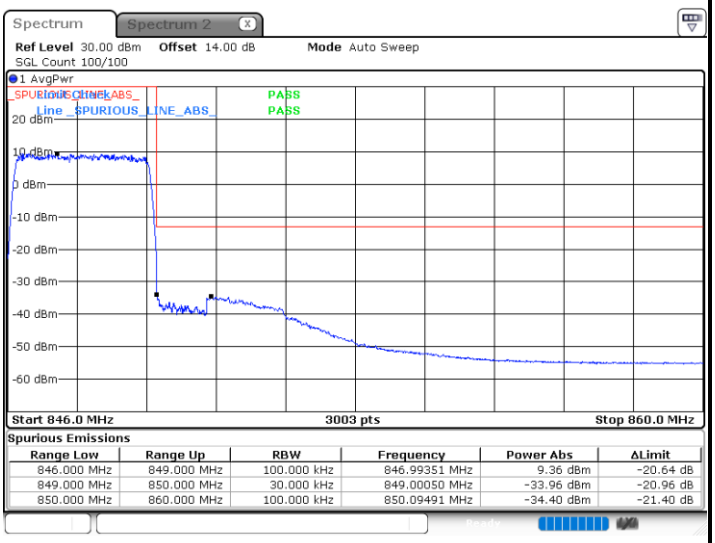


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.99600 MHz	-32.97 dBm	-19.97 dB
823.000 MHz	824.000 MHz	30.000 kHz	823.99950 MHz	-32.68 dBm	-19.68 dB
824.000 MHz	827.000 MHz	100.000 kHz	824.56194 MHz	9.33 dBm	-20.67 dB

Date: 10.MAY.2025 07:27:59

Highest Band Edge / Full RB



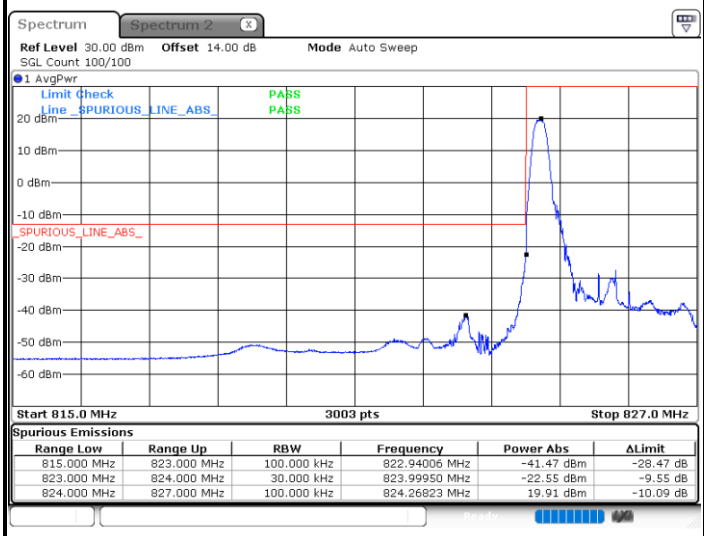
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
846.000 MHz	849.000 MHz	100.000 kHz	846.99351 MHz	9.36 dBm	-20.64 dB
849.000 MHz	850.000 MHz	30.000 kHz	849.00050 MHz	-33.96 dBm	-20.96 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.09491 MHz	-34.40 dBm	-21.40 dB

Date: 10.MAY.2025 07:35:05

LTE Band 5 / 3MHz / 64QAM

Lowest Band Edge / 1 RB

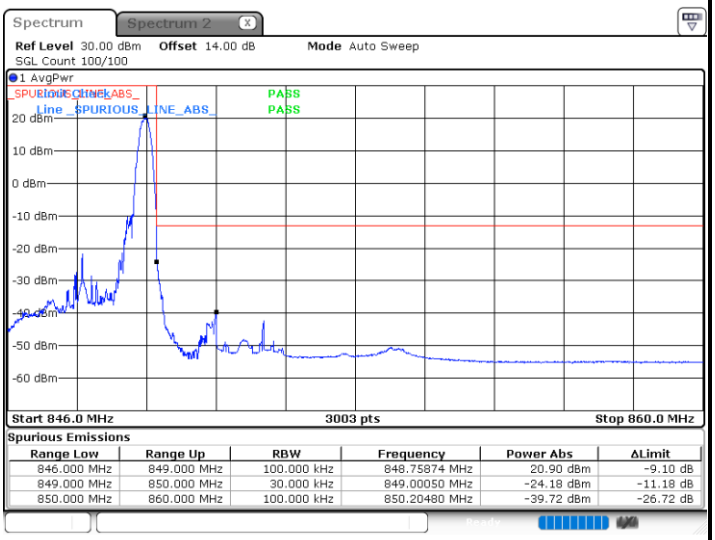


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.94006 MHz	-41.47 dBm	-28.47 dB
823.000 MHz	824.000 MHz	30.000 kHz	823.99950 MHz	-22.55 dBm	-9.55 dB
824.000 MHz	827.000 MHz	100.000 kHz	824.26823 MHz	19.91 dBm	-10.09 dB

Date: 10.MAY.2025 07:26:17

Highest Band Edge / 1 RB

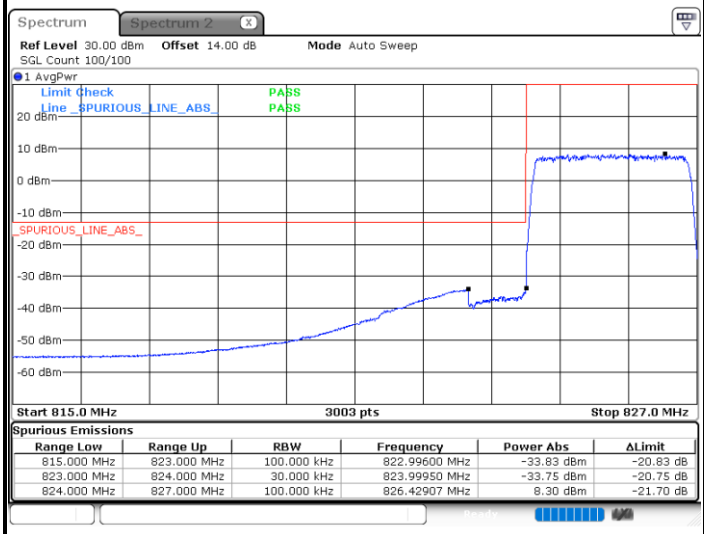


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
846.000 MHz	849.000 MHz	100.000 kHz	848.75874 MHz	20.90 dBm	-9.10 dB
849.000 MHz	850.000 MHz	30.000 kHz	849.00050 MHz	-24.18 dBm	-11.18 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.20480 MHz	-39.72 dBm	-26.72 dB

Date: 10.MAY.2025 07:33:23

Lowest Band Edge / Full RB

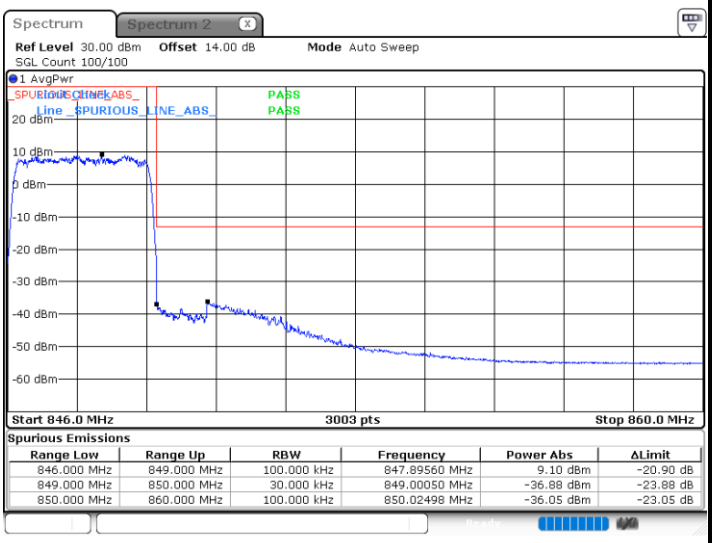


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.99600 MHz	-33.83 dBm	-20.83 dB
823.000 MHz	824.000 MHz	30.000 kHz	823.99950 MHz	-33.75 dBm	-20.75 dB
824.000 MHz	827.000 MHz	100.000 kHz	826.42907 MHz	8.30 dBm	-21.70 dB

Date: 10.MAY.2025 07:28:50

Highest Band Edge / Full RB



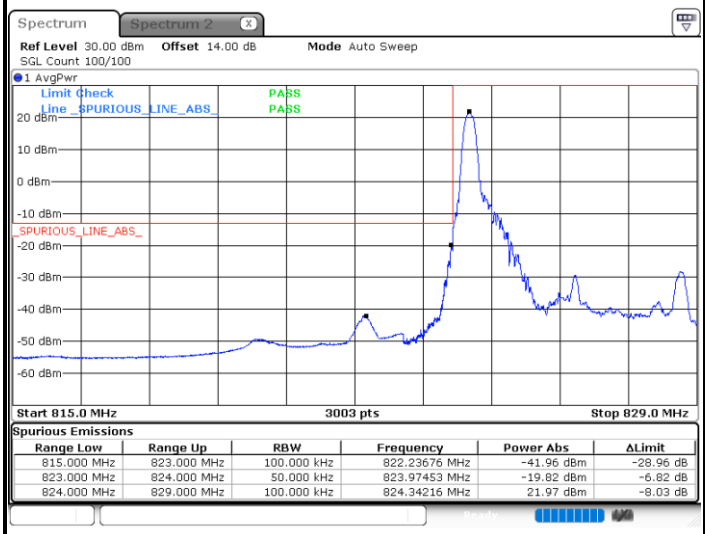
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
846.000 MHz	849.000 MHz	100.000 kHz	847.89560 MHz	9.10 dBm	-20.90 dB
849.000 MHz	850.000 MHz	30.000 kHz	849.00050 MHz	-36.88 dBm	-23.88 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.02498 MHz	-36.05 dBm	-23.05 dB

Date: 10.MAY.2025 07:35:56

LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1RB

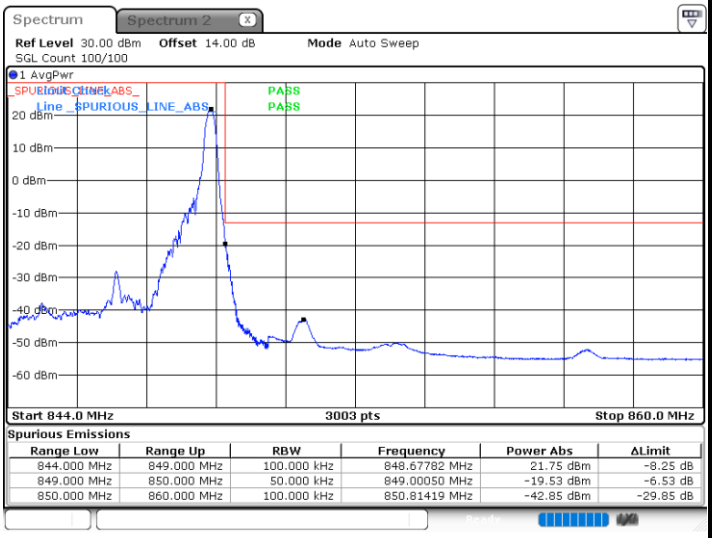


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.23676 MHz	-41.96 dBm	-28.96 dB
823.000 MHz	824.000 MHz	50.000 kHz	823.97453 MHz	-19.82 dBm	-6.82 dB
824.000 MHz	829.000 MHz	100.000 kHz	824.34216 MHz	21.97 dBm	-8.03 dB

Date: 10.MAY.2025 07:38:30

Highest Band Edge / 1RB

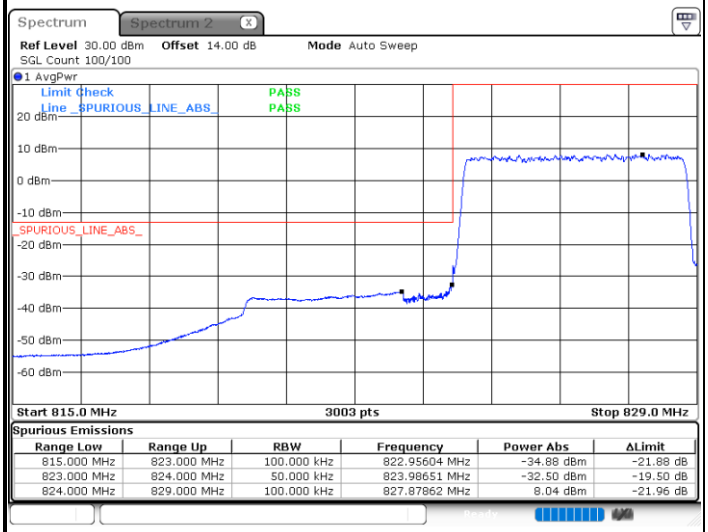


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
844.000 MHz	849.000 MHz	100.000 kHz	848.67782 MHz	21.75 dBm	-8.25 dB
849.000 MHz	850.000 MHz	50.000 kHz	849.00050 MHz	-19.53 dBm	-6.53 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.81419 MHz	-42.85 dBm	-29.85 dB

Date: 10.MAY.2025 07:45:36

Lowest Band Edge / Full RB

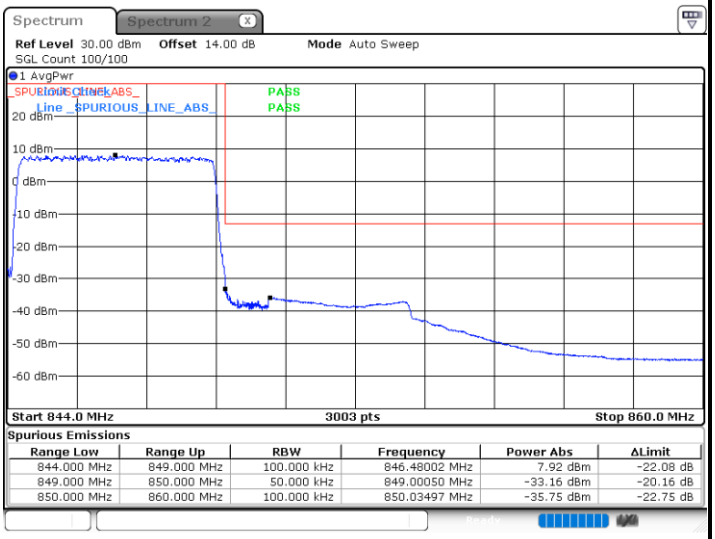


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.95604 MHz	-34.88 dBm	-21.88 dB
823.000 MHz	824.000 MHz	50.000 kHz	823.98651 MHz	-32.50 dBm	-19.50 dB
824.000 MHz	829.000 MHz	100.000 kHz	827.87862 MHz	8.04 dBm	-21.96 dB

Date: 10.MAY.2025 07:41:03

Highest Band Edge / Full RB



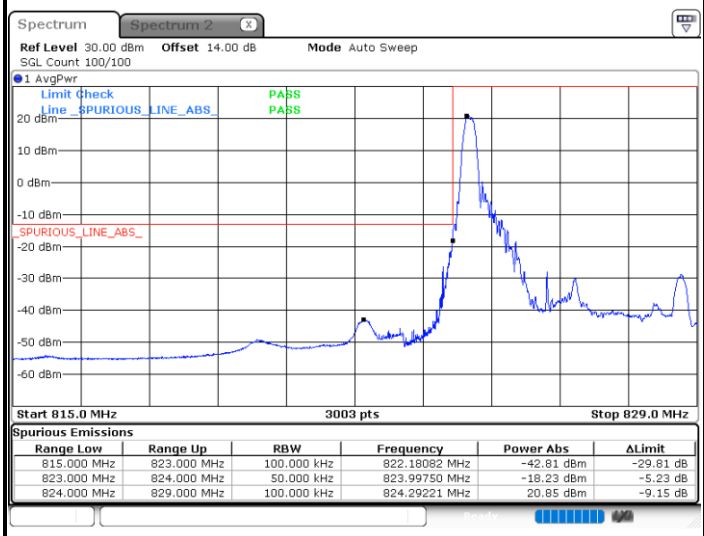
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
844.000 MHz	849.000 MHz	100.000 kHz	846.48002 MHz	7.92 dBm	-22.08 dB
849.000 MHz	850.000 MHz	50.000 kHz	849.00050 MHz	-33.16 dBm	-20.16 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.03497 MHz	-35.75 dBm	-22.75 dB

Date: 10.MAY.2025 07:48:10

LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.18082 MHz	-42.81 dBm	-29.81 dB
823.000 MHz	824.000 MHz	50.000 kHz	823.99750 MHz	-18.23 dBm	-5.23 dB
824.000 MHz	829.000 MHz	100.000 kHz	824.29221 MHz	20.85 dBm	-9.15 dB

Date: 10.MAY.2025 07:39:21

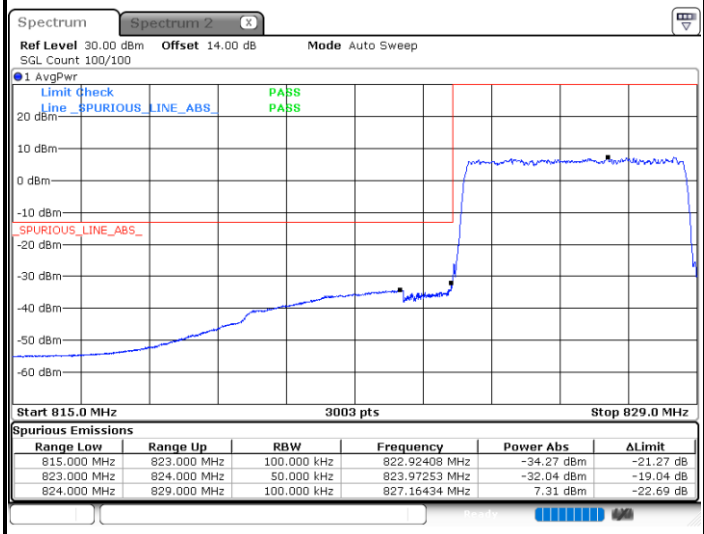
Highest Band Edge / 1 RB

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
844.000 MHz	849.000 MHz	100.000 kHz	848.66783 MHz	20.49 dBm	-9.51 dB
849.000 MHz	850.000 MHz	50.000 kHz	849.00150 MHz	-19.55 dBm	-6.55 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.72428 MHz	-43.20 dBm	-30.20 dB

Date: 10.MAY.2025 07:46:27

Lowest Band Edge / Full RB

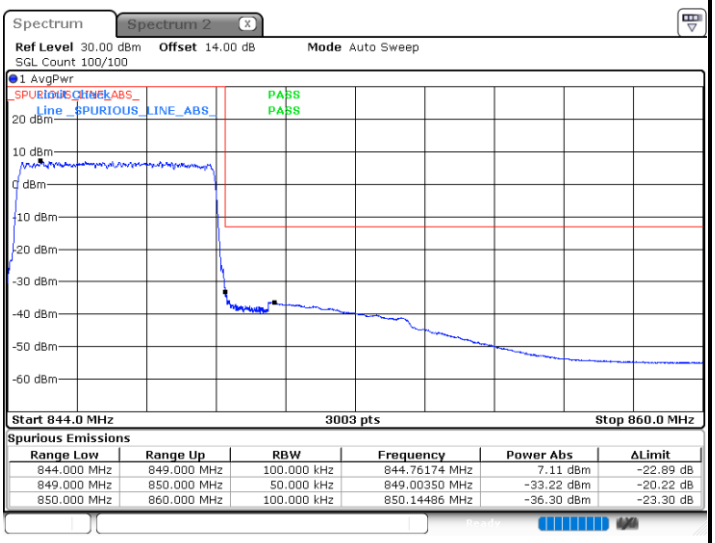


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.92408 MHz	-34.27 dBm	-21.27 dB
823.000 MHz	824.000 MHz	50.000 kHz	823.97253 MHz	-32.04 dBm	-19.04 dB
824.000 MHz	829.000 MHz	100.000 kHz	827.16434 MHz	7.31 dBm	-22.69 dB

Date: 10.MAY.2025 07:41:54

Highest Band Edge / Full RB



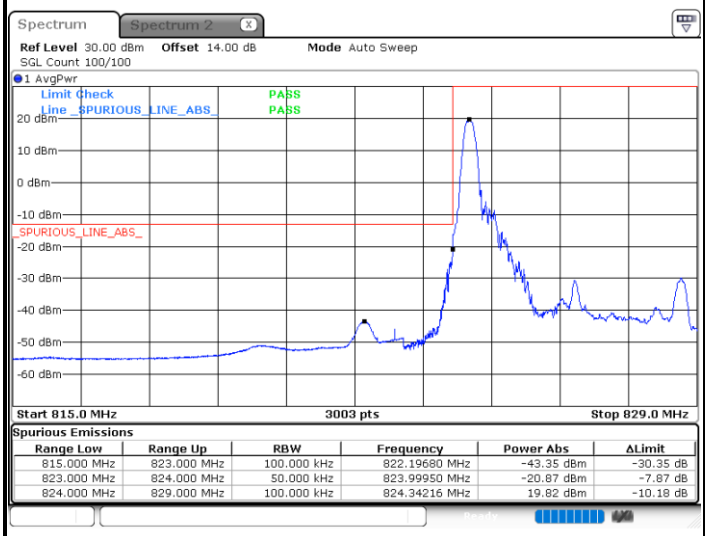
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
844.000 MHz	849.000 MHz	100.000 kHz	844.76174 MHz	7.11 dBm	-22.89 dB
849.000 MHz	850.000 MHz	50.000 kHz	849.00350 MHz	-33.22 dBm	-20.22 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.14486 MHz	-36.30 dBm	-23.30 dB

Date: 10.MAY.2025 07:49:02

LTE Band 5 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

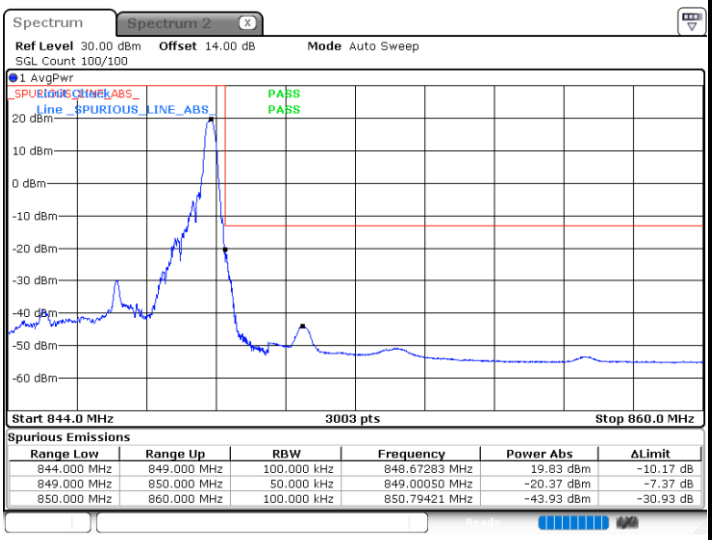


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.19680 MHz	-43.35 dBm	-30.35 dB
823.000 MHz	824.000 MHz	50.000 kHz	823.99950 MHz	-20.87 dBm	-7.87 dB
824.000 MHz	829.000 MHz	100.000 kHz	824.34216 MHz	19.82 dBm	-10.18 dB

Date: 10.MAY.2025 07:40:11

Highest Band Edge / 1 RB

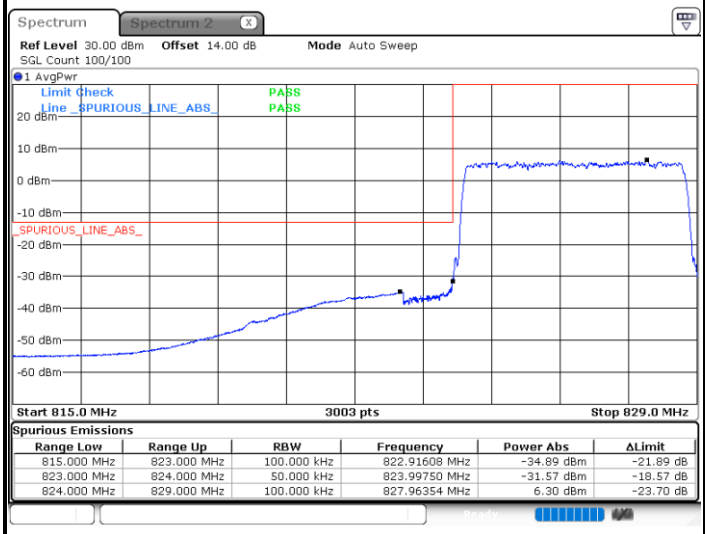


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
844.000 MHz	849.000 MHz	100.000 kHz	848.67283 MHz	19.83 dBm	-10.17 dB
849.000 MHz	850.000 MHz	50.000 kHz	849.00050 MHz	-20.37 dBm	-7.37 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.79421 MHz	-43.93 dBm	-30.93 dB

Date: 10.MAY.2025 07:47:19

Lowest Band Edge / Full RB

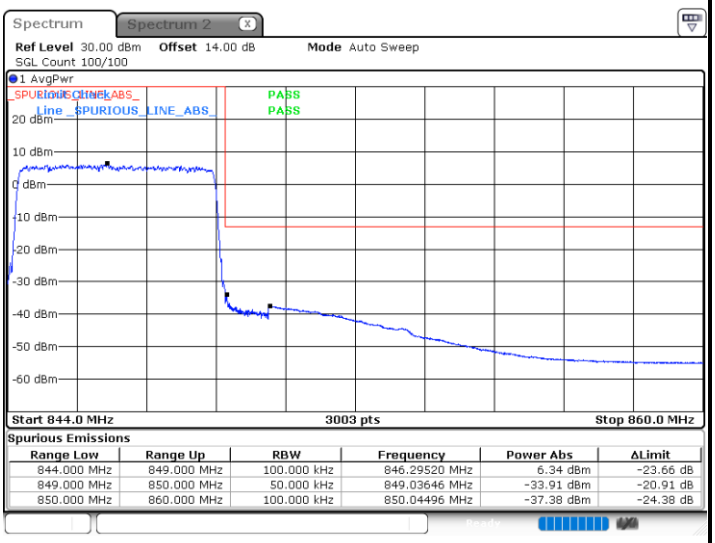


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.91608 MHz	-34.89 dBm	-21.89 dB
823.000 MHz	824.000 MHz	50.000 kHz	823.99750 MHz	-31.57 dBm	-18.57 dB
824.000 MHz	829.000 MHz	100.000 kHz	827.96354 MHz	6.30 dBm	-23.70 dB

Date: 10.MAY.2025 07:42:45

Highest Band Edge / Full RB



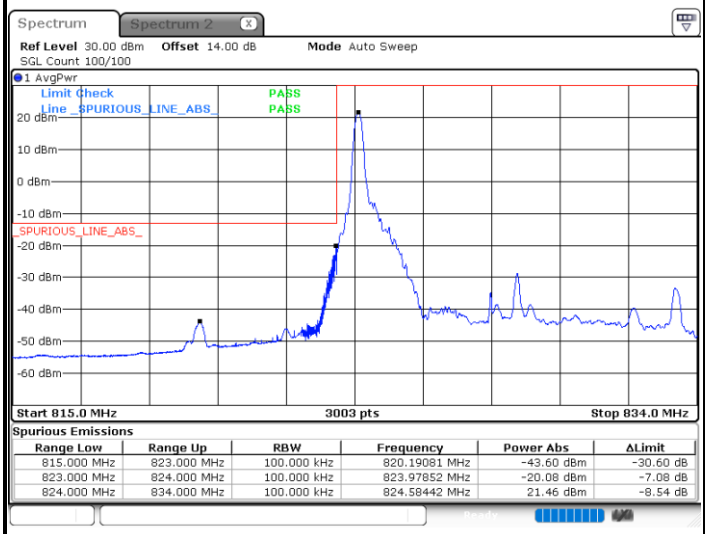
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
844.000 MHz	849.000 MHz	100.000 kHz	846.29520 MHz	6.34 dBm	-23.66 dB
849.000 MHz	850.000 MHz	50.000 kHz	849.03646 MHz	-33.91 dBm	-20.91 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.04496 MHz	-37.38 dBm	-24.38 dB

Date: 10.MAY.2025 07:49:53

LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1RB

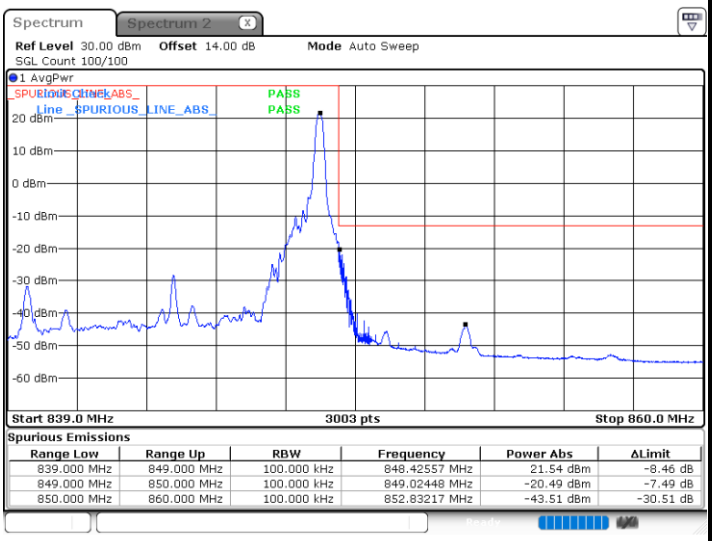


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	820.19081 MHz	-43.60 dBm	-30.60 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.97852 MHz	-20.08 dBm	-7.08 dB
824.000 MHz	834.000 MHz	100.000 kHz	824.58442 MHz	21.46 dBm	-8.54 dB

Date: 10.MAY.2025 07:52:27

Highest Band Edge / 1RB

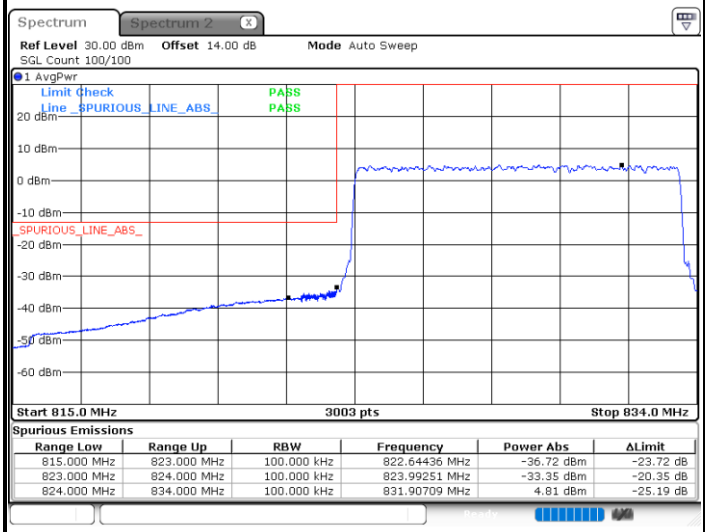


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
839.000 MHz	849.000 MHz	100.000 kHz	848.42557 MHz	21.54 dBm	-8.46 dB
849.000 MHz	850.000 MHz	100.000 kHz	849.02448 MHz	-20.49 dBm	-7.49 dB
850.000 MHz	860.000 MHz	100.000 kHz	852.83217 MHz	-43.51 dBm	-30.51 dB

Date: 10.MAY.2025 07:59:33

Lowest Band Edge / Full RB

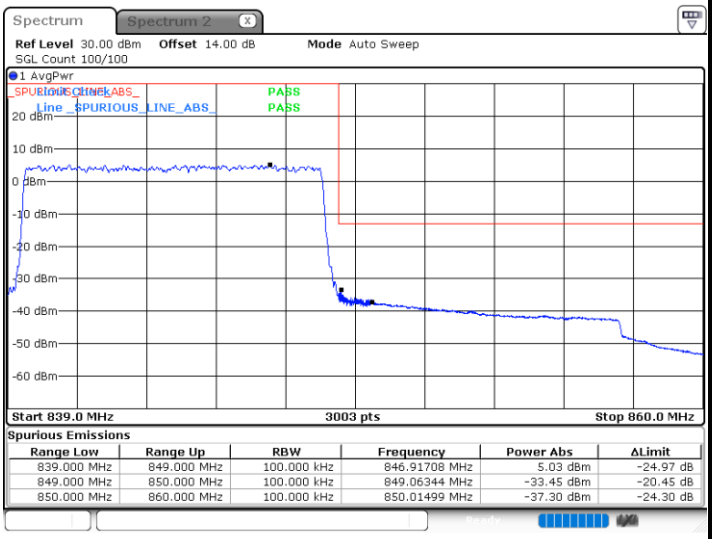


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.64436 MHz	-36.72 dBm	-23.72 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.99251 MHz	-33.35 dBm	-20.35 dB
824.000 MHz	834.000 MHz	100.000 kHz	831.90709 MHz	4.81 dBm	-25.19 dB

Date: 10.MAY.2025 07:55:00

Highest Band Edge / Full RB



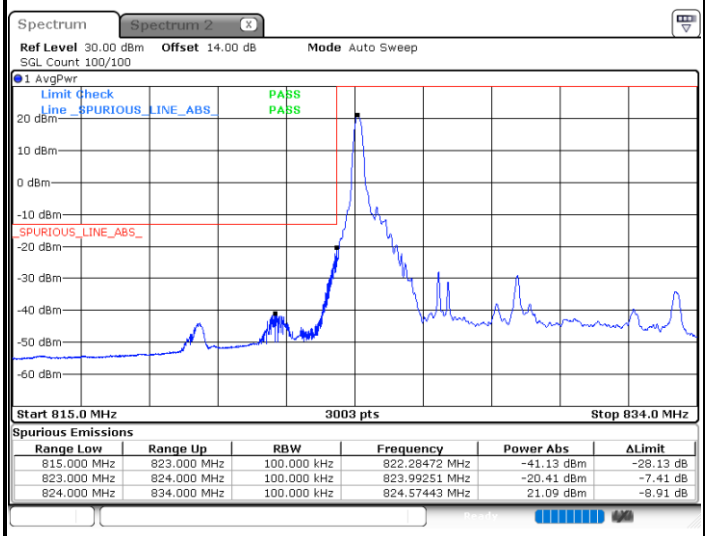
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
839.000 MHz	849.000 MHz	100.000 kHz	846.91708 MHz	5.03 dBm	-24.97 dB
849.000 MHz	850.000 MHz	100.000 kHz	849.06344 MHz	-33.45 dBm	-20.45 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.01499 MHz	-37.30 dBm	-24.30 dB

Date: 10.MAY.2025 08:02:05

LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

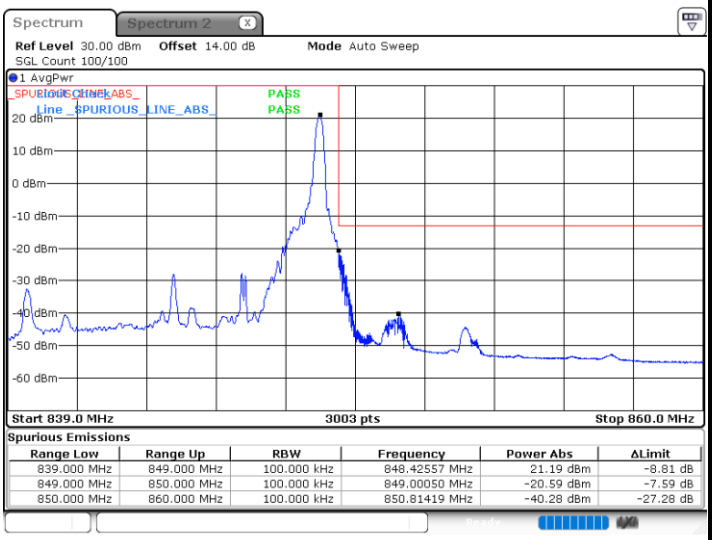


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.28472 MHz	-41.13 dBm	-28.13 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.99251 MHz	-20.41 dBm	-7.41 dB
824.000 MHz	834.000 MHz	100.000 kHz	824.57443 MHz	21.09 dBm	-8.91 dB

Date: 10.MAY.2025 07:53:18

Highest Band Edge / 1 RB

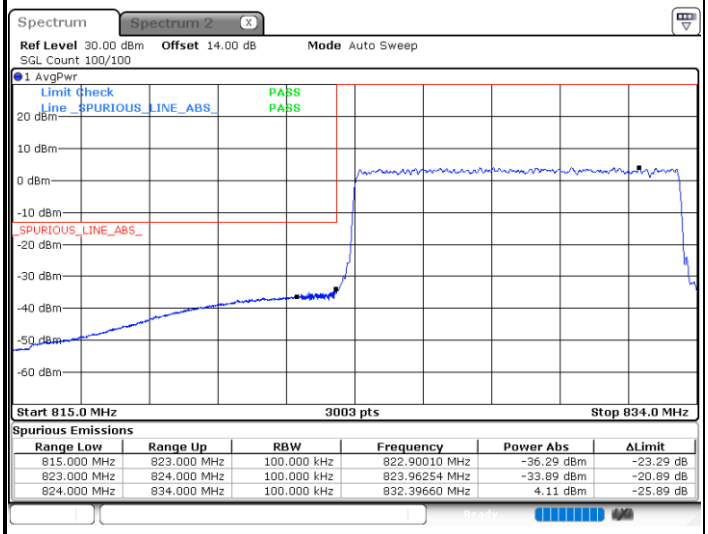


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
839.000 MHz	849.000 MHz	100.000 kHz	848.42557 MHz	21.19 dBm	-8.81 dB
849.000 MHz	850.000 MHz	100.000 kHz	849.00050 MHz	-20.59 dBm	-7.59 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.81419 MHz	-40.28 dBm	-27.28 dB

Date: 10.MAY.2025 08:00:23

Lowest Band Edge / Full RB

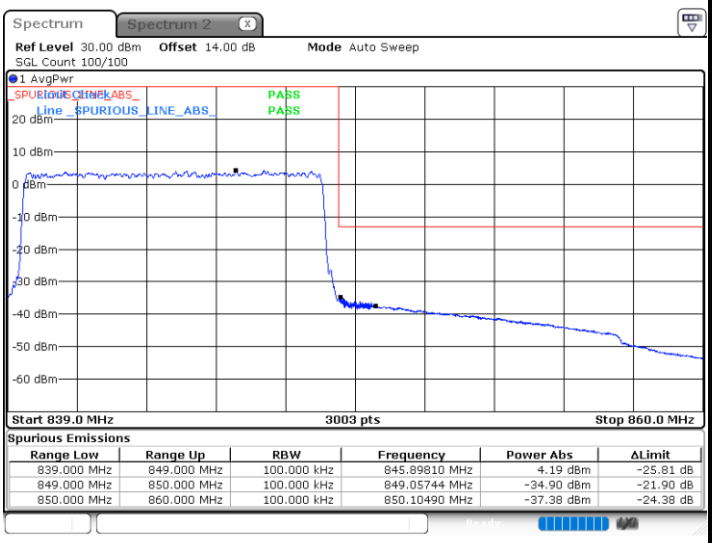


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.90010 MHz	-36.29 dBm	-23.29 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.96254 MHz	-33.89 dBm	-20.89 dB
824.000 MHz	834.000 MHz	100.000 kHz	832.39660 MHz	4.11 dBm	-25.89 dB

Date: 10.MAY.2025 07:55:51

Highest Band Edge / Full RB



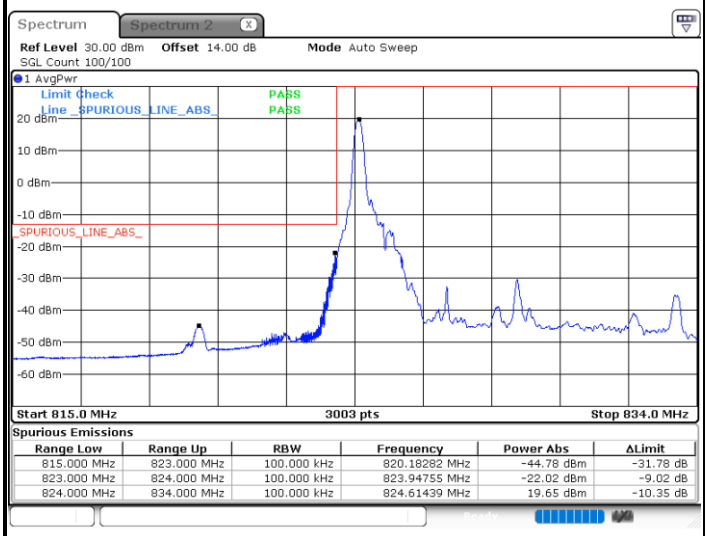
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
839.000 MHz	849.000 MHz	100.000 kHz	845.89810 MHz	4.19 dBm	-25.81 dB
849.000 MHz	850.000 MHz	100.000 kHz	849.05744 MHz	-34.90 dBm	-21.90 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.10490 MHz	-37.38 dBm	-24.38 dB

Date: 10.MAY.2025 08:02:56

LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

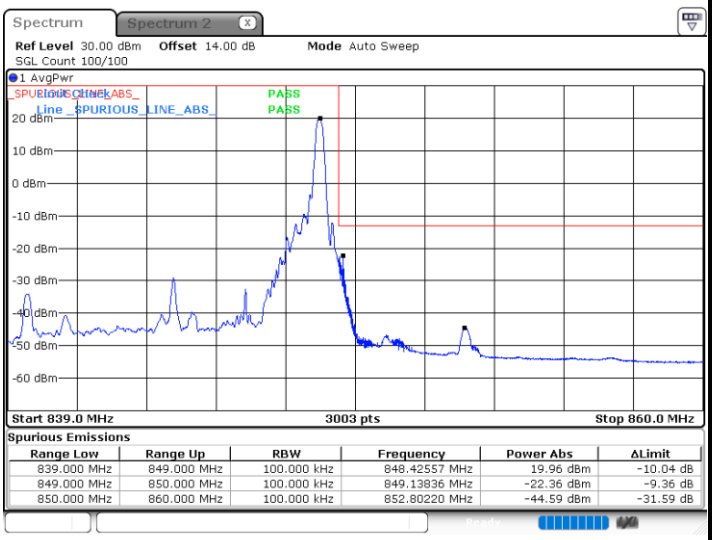


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	820.18282 MHz	-44.78 dBm	-31.78 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.94755 MHz	-22.02 dBm	-9.02 dB
824.000 MHz	834.000 MHz	100.000 kHz	824.61439 MHz	19.65 dBm	-10.35 dB

Date: 10.MAY.2025 07:54:09

Highest Band Edge / 1 RB

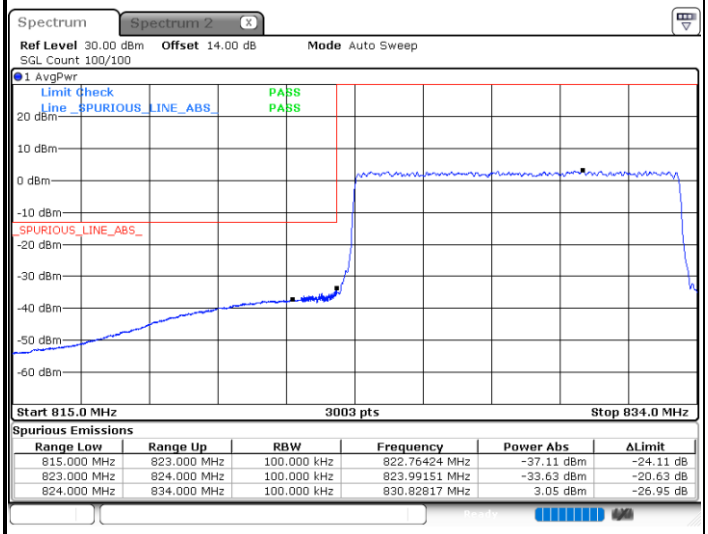


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
839.000 MHz	849.000 MHz	100.000 kHz	848.42557 MHz	19.96 dBm	-10.04 dB
849.000 MHz	850.000 MHz	100.000 kHz	849.13836 MHz	-22.36 dBm	-9.36 dB
850.000 MHz	860.000 MHz	100.000 kHz	852.80220 MHz	-44.59 dBm	-31.59 dB

Date: 10.MAY.2025 08:01:14

Lowest Band Edge / Full RB

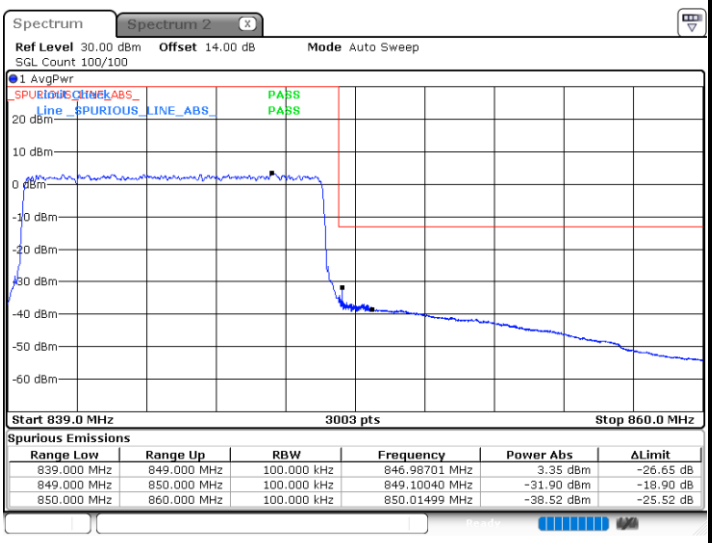


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.76424 MHz	-37.11 dBm	-24.11 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.99151 MHz	-33.63 dBm	-20.63 dB
824.000 MHz	834.000 MHz	100.000 kHz	830.82817 MHz	3.05 dBm	-26.95 dB

Date: 10.MAY.2025 07:56:42

Highest Band Edge / Full RB



Spurious Emissions

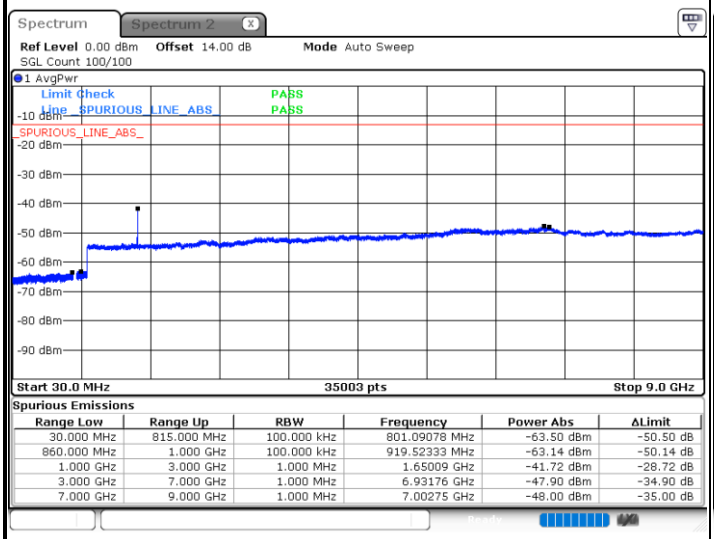
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
839.000 MHz	849.000 MHz	100.000 kHz	846.98701 MHz	3.35 dBm	-26.65 dB
849.000 MHz	850.000 MHz	100.000 kHz	849.10040 MHz	-31.90 dBm	-18.90 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.01499 MHz	-38.52 dBm	-25.52 dB

Date: 10.MAY.2025 08:03:47

Conducted Spurious Emission

LTE Band 5 / 1.4MHz

Lowest Channel / QPSK

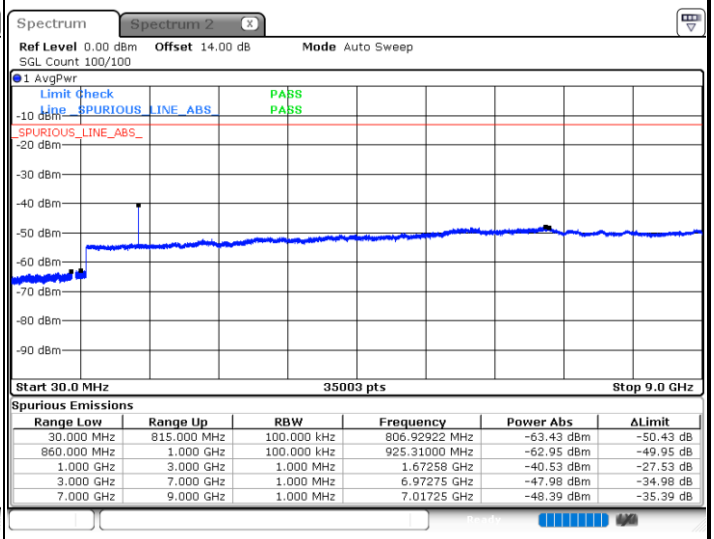


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	801.09078 MHz	-63.50 dBm	-50.50 dB
860.000 MHz	1.000 GHz	100.000 kHz	919.52333 MHz	-63.14 dBm	-50.14 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.65009 GHz	-41.72 dBm	-28.72 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.93176 GHz	-47.90 dBm	-34.90 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.00275 GHz	-48.00 dBm	-35.00 dB

Date: 10.MAY.2025 07:15:55

Middle Channel / QPSK

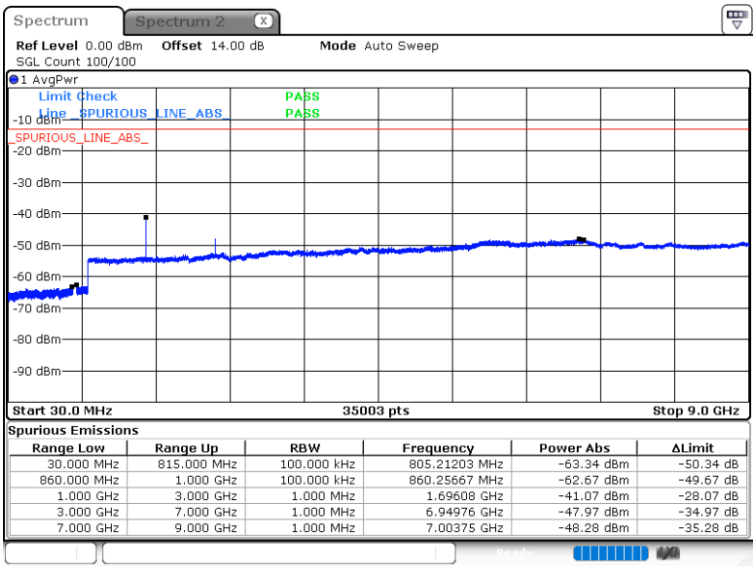


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	806.92922 MHz	-63.43 dBm	-50.43 dB
860.000 MHz	1.000 GHz	100.000 kHz	925.31000 MHz	-62.95 dBm	-49.95 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.67258 GHz	-40.53 dBm	-27.53 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.97275 GHz	-47.98 dBm	-34.98 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.01725 GHz	-48.39 dBm	-35.39 dB

Date: 10.MAY.2025 07:16:55

Highest Channel / QPSK



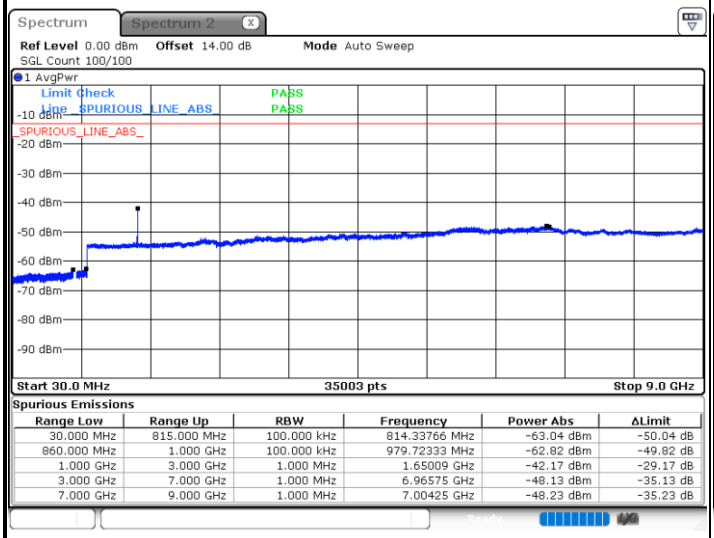
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	805.21203 MHz	-63.34 dBm	-50.34 dB
860.000 MHz	1.000 GHz	100.000 kHz	860.25667 MHz	-62.67 dBm	-49.67 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.69608 GHz	-41.07 dBm	-28.07 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94976 GHz	-47.97 dBm	-34.97 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.00375 GHz	-48.28 dBm	-35.28 dB

Date: 10.MAY.2025 07:23:01

LTE Band 5 / 3MHz

Lowest Channel / QPSK

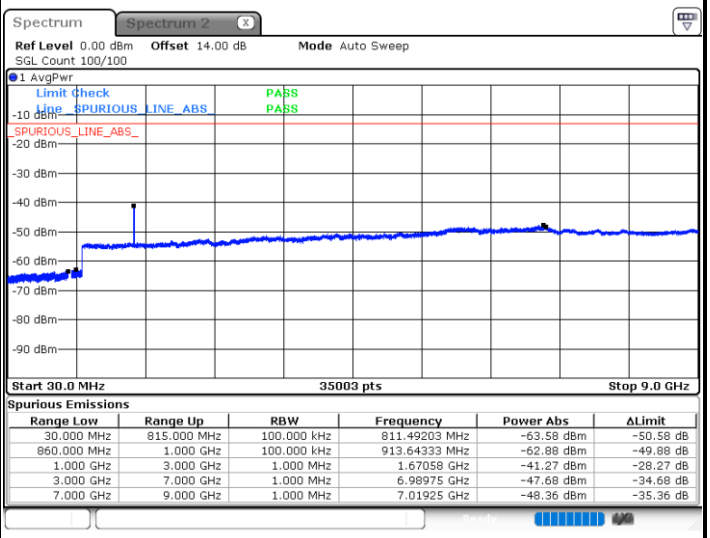


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	814.33766 MHz	-63.04 dBm	-50.04 dB
860.000 MHz	1.000 GHz	100.000 kHz	979.72333 MHz	-62.82 dBm	-49.82 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.65009 GHz	-42.17 dBm	-29.17 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96575 GHz	-48.13 dBm	-35.13 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.00425 GHz	-48.23 dBm	-35.23 dB

Date: 10.MAY.2025 07:29:51

Middle Channel / QPSK

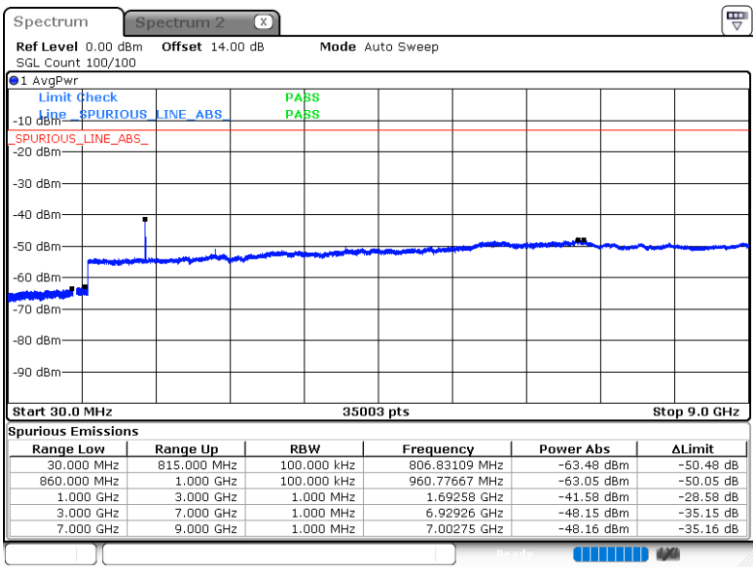


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	811.49203 MHz	-63.58 dBm	-50.58 dB
860.000 MHz	1.000 GHz	100.000 kHz	913.64333 MHz	-62.88 dBm	-49.88 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.67058 GHz	-41.27 dBm	-28.27 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98975 GHz	-47.68 dBm	-34.68 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.01925 GHz	-48.36 dBm	-35.36 dB

Date: 10.MAY.2025 07:30:51

Highest Channel / QPSK



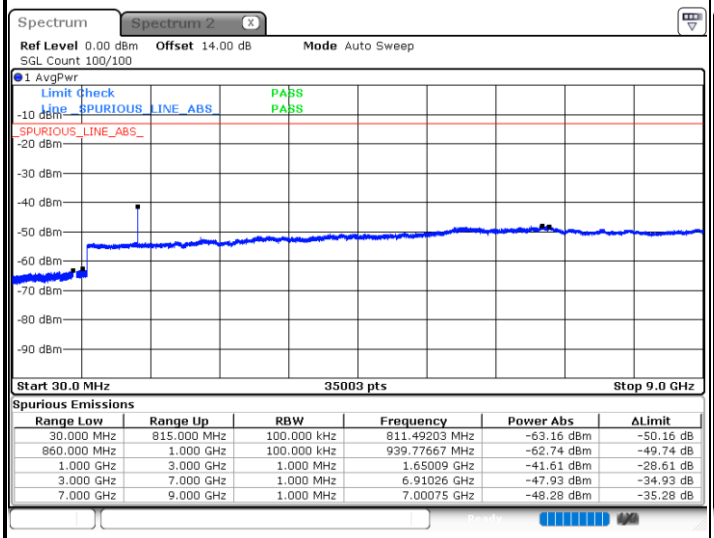
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	806.83109 MHz	-63.48 dBm	-50.48 dB
860.000 MHz	1.000 GHz	100.000 kHz	960.77667 MHz	-63.05 dBm	-50.05 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.69258 GHz	-41.58 dBm	-28.58 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92926 GHz	-48.15 dBm	-35.15 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.00275 GHz	-48.16 dBm	-35.16 dB

Date: 10.MAY.2025 07:36:56

LTE Band 5 / 5MHz

Lowest Channel / QPSK

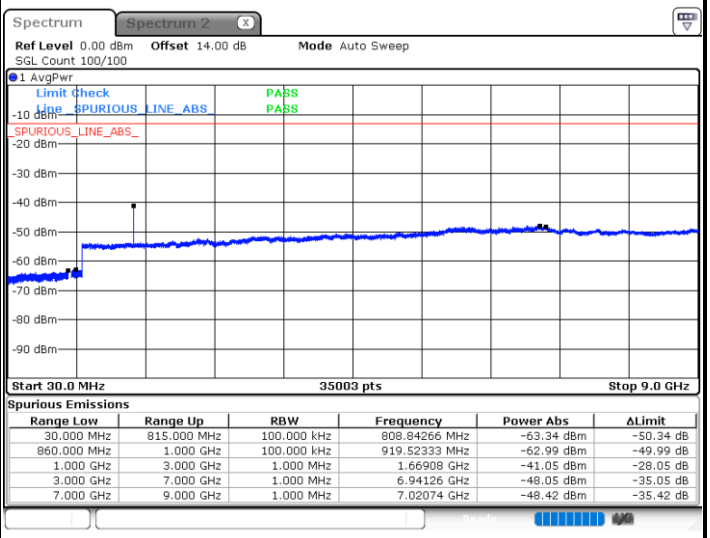


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	811.49203 MHz	-63.16 dBm	-50.16 dB
860.000 MHz	1.000 GHz	100.000 kHz	939.77667 MHz	-62.74 dBm	-49.74 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.65009 GHz	-41.61 dBm	-28.61 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91026 GHz	-47.93 dBm	-34.93 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.00075 GHz	-48.28 dBm	-35.28 dB

Date: 10.MAY.2025 07:43:46

Middle Channel / QPSK

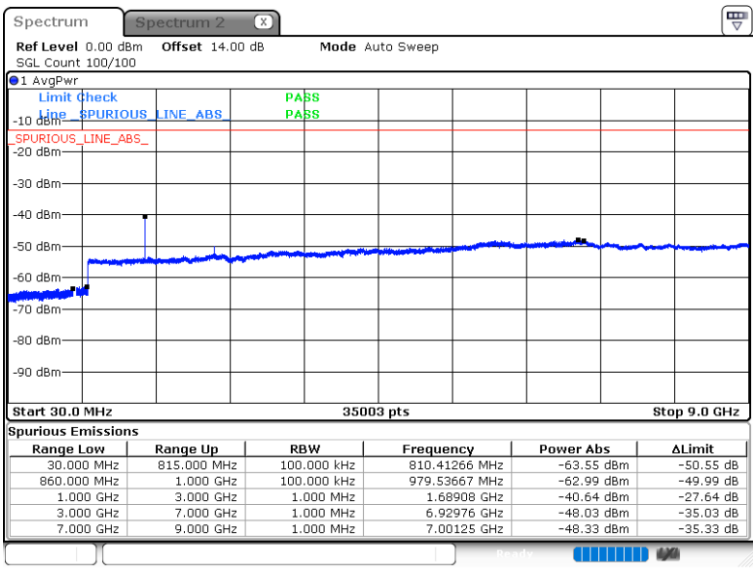


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	808.84266 MHz	-63.34 dBm	-50.34 dB
860.000 MHz	1.000 GHz	100.000 kHz	919.52333 MHz	-62.99 dBm	-49.99 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.66908 GHz	-41.05 dBm	-28.05 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94126 GHz	-48.05 dBm	-35.05 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.02074 GHz	-48.42 dBm	-35.42 dB

Date: 10.MAY.2025 07:44:46

Highest Channel / QPSK



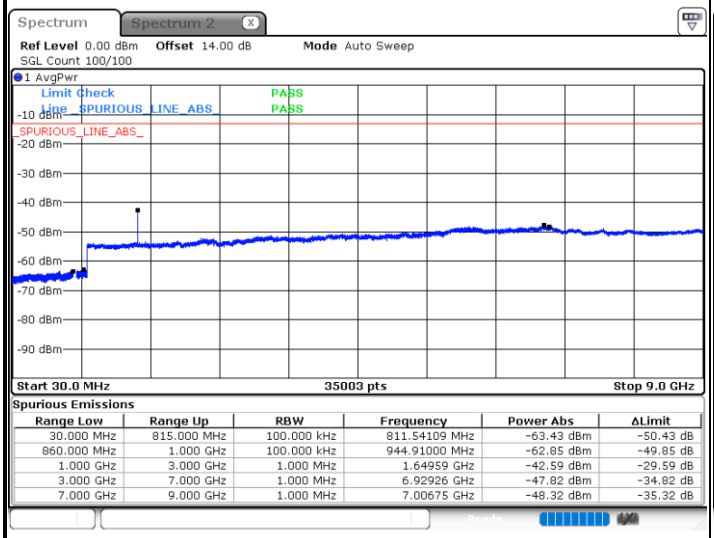
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	810.41266 MHz	-63.55 dBm	-50.55 dB
860.000 MHz	1.000 GHz	100.000 kHz	979.53667 MHz	-62.99 dBm	-49.99 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.68908 GHz	-40.64 dBm	-27.64 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92976 GHz	-48.03 dBm	-35.03 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.00125 GHz	-48.33 dBm	-35.33 dB

Date: 10.MAY.2025 07:50:53

LTE Band 5 / 10MHz

Lowest Channel / QPSK

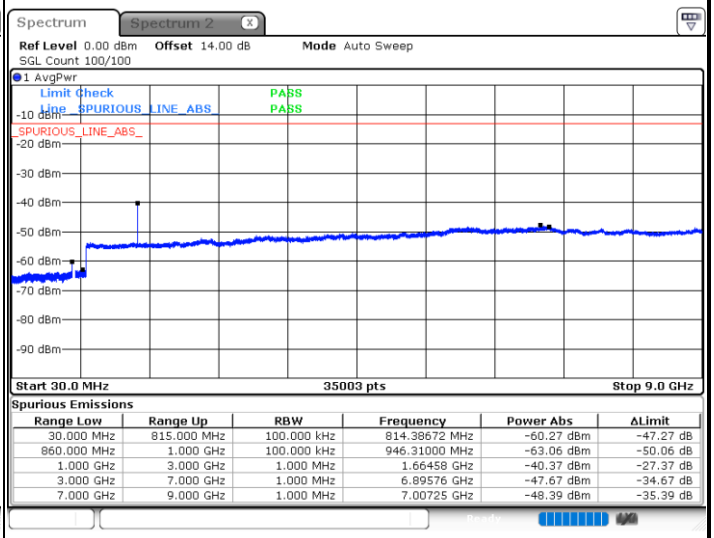


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	811.54109 MHz	-63.43 dBm	-50.43 dB
860.000 MHz	1.000 GHz	100.000 kHz	944.91000 MHz	-62.85 dBm	-49.85 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64959 GHz	-42.59 dBm	-29.59 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92926 GHz	-47.82 dBm	-34.82 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.00675 GHz	-48.32 dBm	-35.32 dB

Date: 10.MAY.2025 07:57:42

Middle Channel / QPSK

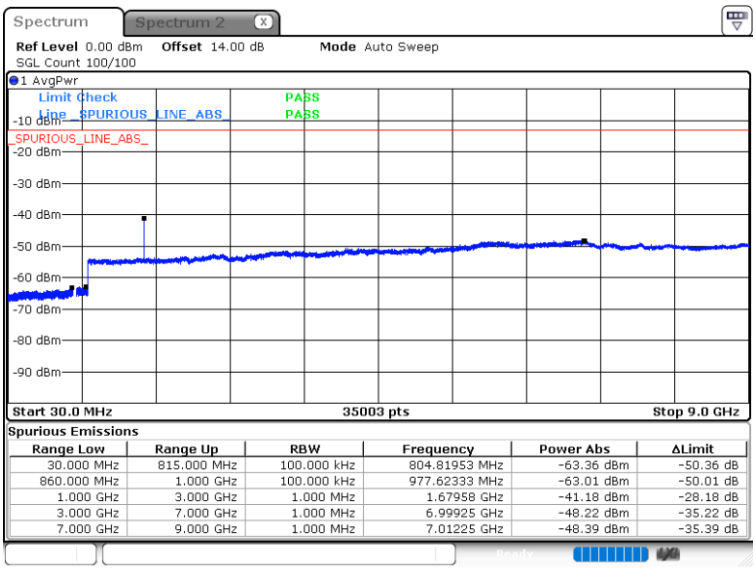


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	814.38672 MHz	-60.27 dBm	-47.27 dB
860.000 MHz	1.000 GHz	100.000 kHz	946.31000 MHz	-63.06 dBm	-50.06 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.66458 GHz	-40.37 dBm	-27.37 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.89576 GHz	-47.67 dBm	-34.67 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.00725 GHz	-48.39 dBm	-35.39 dB

Date: 10.MAY.2025 07:58:42

Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	804.81953 MHz	-63.36 dBm	-50.36 dB
860.000 MHz	1.000 GHz	100.000 kHz	977.62333 MHz	-63.01 dBm	-50.01 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.67958 GHz	-41.18 dBm	-28.18 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99925 GHz	-48.22 dBm	-35.22 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.01225 GHz	-48.39 dBm	-35.39 dB

Date: 10.MAY.2025 08:04:49

Frequency Stability

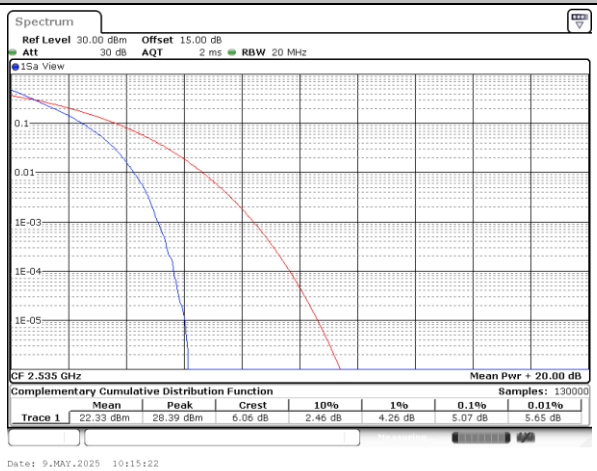
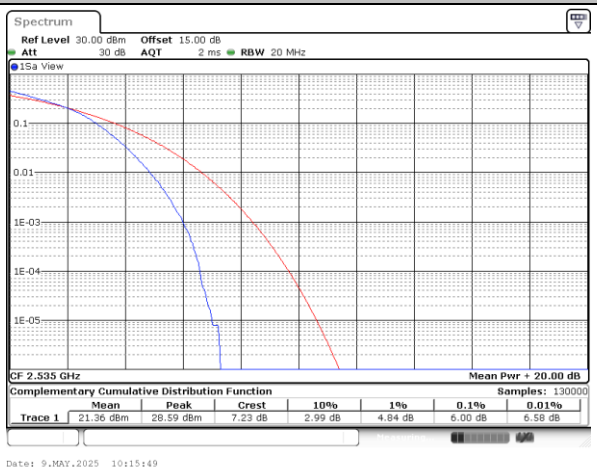
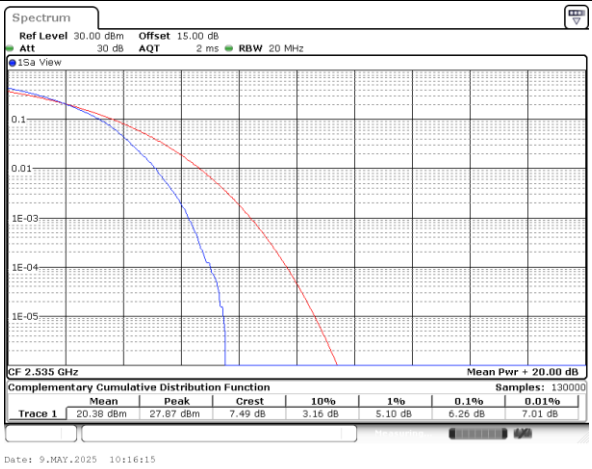
Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	≤2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0043	PASS
40	Normal Voltage	0.0035	
30	Normal Voltage	0.0037	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0033	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0032	
-20	Normal Voltage	0.0029	
-30	Normal Voltage	0.0044	
20	Maximum Voltage	0.0041	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0047	

Note: Normal Voltage = 3.91 V.；Battery End Point (BEP) = 3.5 V.；Maximum Voltage = 4.45 V.

LTE Band 7

Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.07	6.00	6.26	PASS

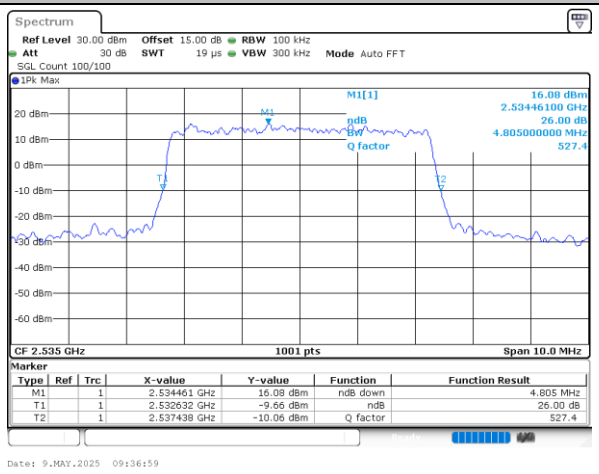
LTE Band 7 / 20MHz / QPSK	LTE Band 7 / 20MHz / 16QAM
Middle Channel / Full RB	**Middle Channel / Full RB**
	
LTE Band 7 / 20MHz / 64QAM	
Middle Channel / Full RB	
	

26dB Bandwidth

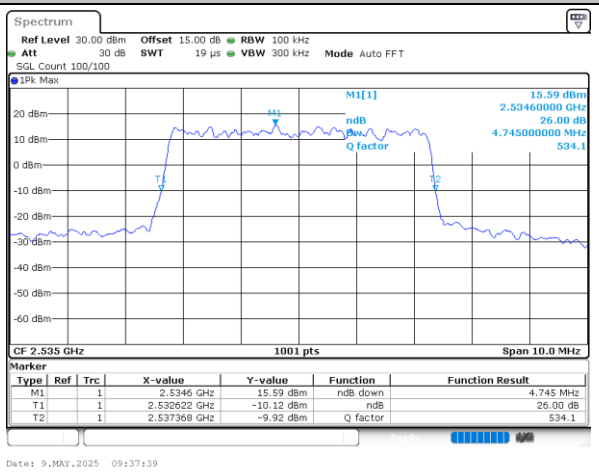
Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.81	4.75	9.89	9.67	14.48	14.51	18.82	18.86

LTE Band 7

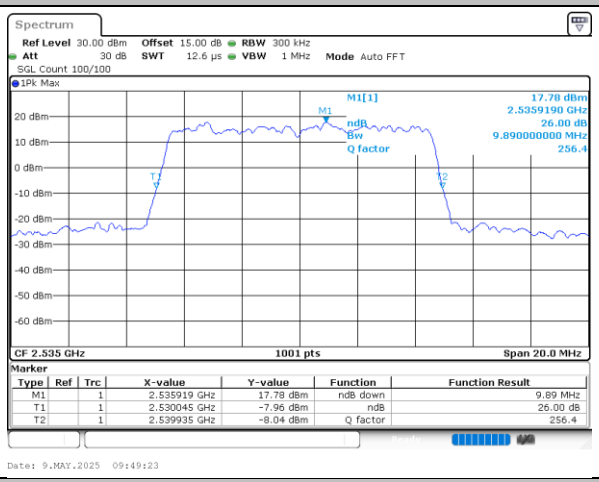
Middle Channel / 5MHz / QPSK



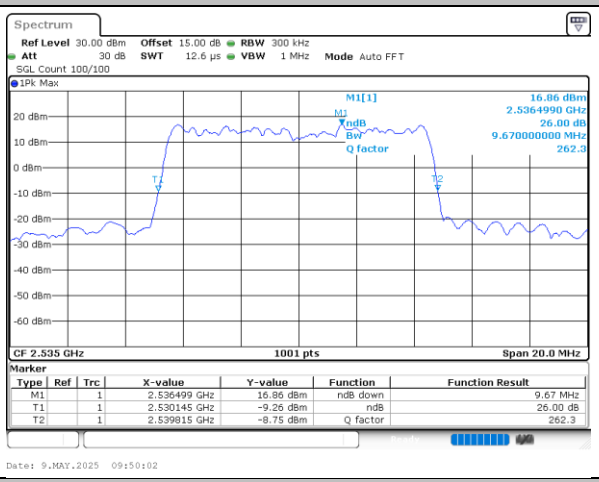
Middle Channel / 5MHz / 16QAM



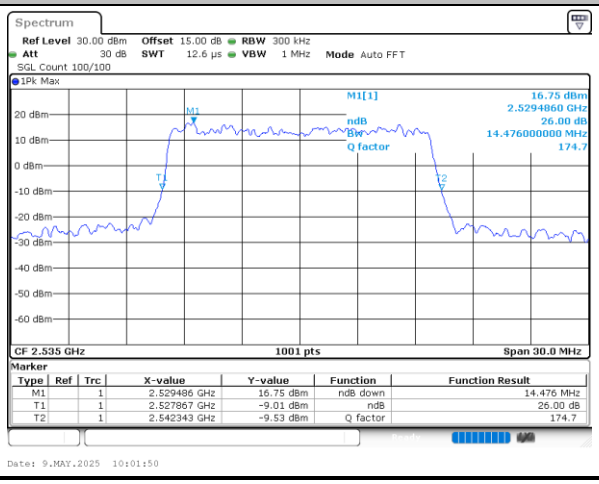
Middle Channel / 10MHz / QPSK



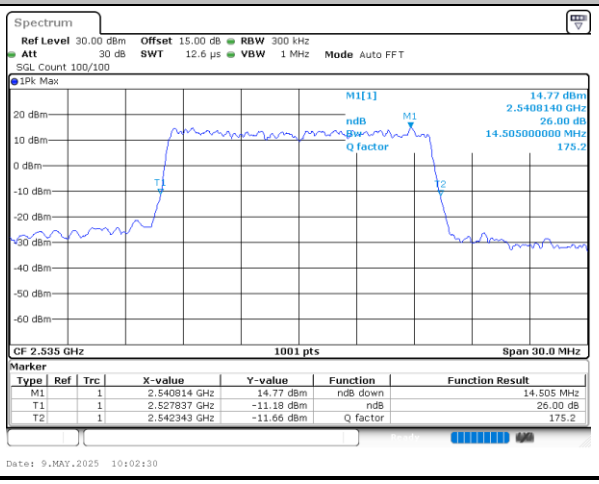
Middle Channel / 10MHz / 16QAM

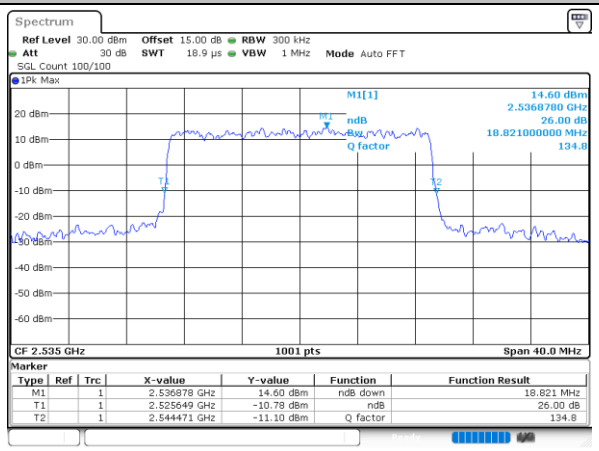
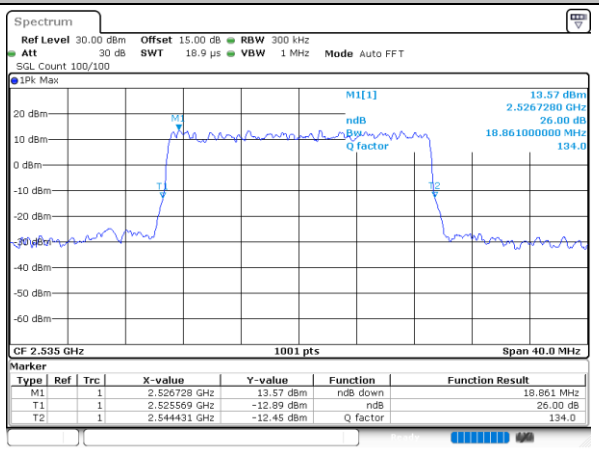


Middle Channel / 15MHz / QPSK



Middle Channel / 15MHz / 16QAM



LTE Band 7	
Middle Channel / 20MHz / QPSK	**Middle Channel / 20MHz / 16QAM**
	

Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.50	4.50	9.09	9.05	13.43	13.46	17.86	17.94