

FCC RF Test Report

FCC ID : UZ7ET401EB
EQUIPMENT : Enterprise Tablet
BRAND NAME : Zebra
Model Name : ET401EB
APPLICANT : Zebra Technologies Corporation
3 Overlook Point, Lincolnshire, IL 60069 USA
MANUFACTURER : Zebra Technologies Corporation
3 Overlook Point, Lincolnshire, IL 60069 USA
STANDARD : 47 CFR Part 27
CLASSIFICATION : PCS Licensed Transmitter (PCB)
TEST DATE(S) : Oct. 16, 2025 ~ Dec. 01, 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



Sporton International Inc. (ShenZhen)

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People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG591015V	Rev. 01	Initial issue of report	Dec. 31, 2025

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	—	PASS	-
3.5	§ 27.1507(d)	Peak-to-Average Ratio (PAR)	< 13 dB	PASS	-
3.6	§ 27.1507(d)	ERP	< 3W	PASS	-
3.7	§2.1049	Occupied Bandwidth	—	PASS	-
3.8	§2.1051 §27.1509 (a)	Conducted Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.9	§2.1051 §27.1509 (a)	Conducted Spurious Emission	< 43+10log10(P[Watts])	PASS	-
3.10	§2.1055	Frequency Stability Temperature & Voltage	Within the band	PASS	-
4.4	§2.1053 §27.1509 (a)	Radiated Spurious Emission	< 43+10log10(P[Watts])	PASS	Under limit 26.26 dB at 2692.950 MHz

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/manufacture 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 Product Feature of Equipment Under Test

Product Feature	
Equipment	Enterprise Tablet
Brand Name	Zebra
Model Name	ET401EB
FCC ID	UZ7ET401EB
IMEI Code	Conducted: 356424630002295 356424630002303 Radiation: 356424630012724/356424630012740 for Sample 1 356424630014761/356424630014779 for Sample 2
HW Version	EV2
SW Version	qssi_64-userdebug 15 15-11-10.00-VG-U00-PRD-ERS-04 777 release-keys
MFD	13SEP2025
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are two types of EUT: Sample 1 without Scanner and Sample 2 with Scanner. According to the difference, we evaluated Sample 1 to perform full test and Sample 2 is verified the worse cases of Sample 1 for RSE test.

Specification of Accessory				
Battery	Brand Name	Zebra	Model	BT-000528

Supported Unit used in test configuration and system				
AC Adapter 1 (TYPE C Wall Charger 1)	Brand Name	Zebra	Part Number	PWR-WUA5V45W1US
Earphone 1 (Wired headset USB-C)	Brand Name	Zebra	Part Number	HDST-USBC-PTT 1-01
Earphone 2 (Rugged Bluetooth Headset)	Brand Name	Zebra	Part Number	HS3100-0TH
Earphone 3 (3.5mm PTT Headset)	Brand Name	Zebra	Part Number	HDST-35MM-PTT 1-02
Earphone 4 (Rugged Headset)	Brand Name	Zebra	Part Number	HS2100-0TH
Type C-Audio Cable (Type C to 3.5mm)	Brand Name	Zebra	Part Number	ADP-USBC-35MM1-01
3.5mm to 3.5mm audio connector	Brand Name	Zebra	Part Number	CBL-HS2100-3MS1-01
USB Cable 1 (USB-C to C Cable)	Brand Name	Zebra	Part Number	CBL-EC5X-USBC3A-01
USB Cable 3 (USB-C to C Cable)	Brand Name	Zebra	Part Number	CBL-TN28-USBC2C-01

1.2 Product Specification of Equipment Under Test

Product Feature	
Tx Frequency	LTE Band 106 : 897.5 MHz ~ 900.5 MHz
Rx Frequency	LTE Band 106 : 936.5 MHz ~ 939.5 MHz
Bandwidth	1.4MHz / 3MHz
Maximum Output Power to Antenna	23.48 dBm
Antenna Gain	ANT8: 0.15 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

1.3 Modification of EUT

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

1.4 Maximum ERP Power and Emission Designator

LTE Band 106		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
1.4	898.2 ~ 899.8	0.1393	1M10G7D	0.1132	1M09W7D
3	899	0.1406	2M73G7D	0.1054	2M70W7D

1.5 Testing Site

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

1.6 Test Software

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

1.7 Applied Standards

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

- ♦ 47 CFR Part 27 Subpart P
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 Power Meas License Digital Systems D01 v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦

Remark:

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

2 Test Configuration of Equipment Under Test

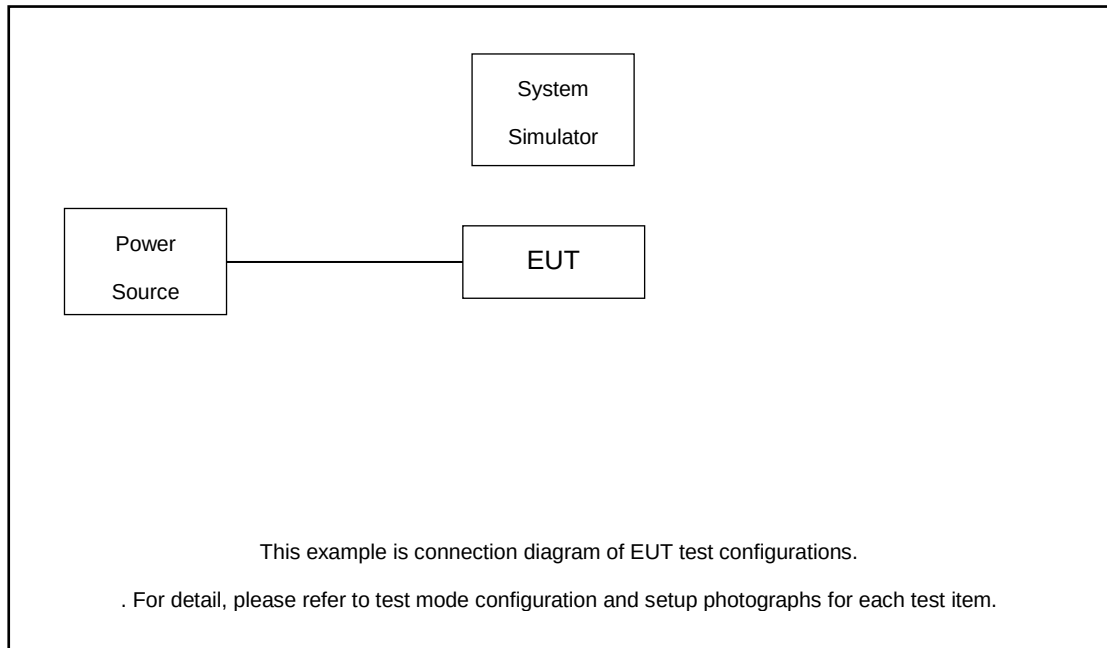
2.1 Test Mode

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

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

Conducted Test Cases	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	106	V		-	-	-	-	V	V	V		V	V	V	V	V	V
			V	-	-	-	-	V	V	V		V	V	V		V	
Peak-to-Average Ratio	106		V	-	-	-	-	V	V	V		V		V		V	
E.R.P	106	V		-	-	-	-	V	V	V		V	V	V	V	V	V
			V	-	-	-	-	V	V	V		V	V	V		V	
26dB and 99% Bandwidth	106	V		-	-	-	-	V	V					V	V	V	V
			V	-	-	-	-	V	V					V		V	
Conducted Band Edge	106	V		-	-	-	-	V	V	V		V		V	V		V
			V	-	-	-	-	V	V	V		V		V		V	
Conducted Spurious Emission	106	V		-	-	-	-	V	V	V		V			V	V	V
			V	-	-	-	-	V	V	V		V				V	
Frequency Stability	106		V	-	-	-	-	V						V		V	
Radiated Spurious Emission	106	V		-	-	-	-	V				V			V	V	V
			V	-	-	-	-	V				V				V	
Note	- The mark "v " means that this configuration is chosen for testing - The mark "- " means that this bandwidth is not supported. - The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.																

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss 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 :

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 4.0 + 10 = 14.0 \text{ (dB)}
 \end{aligned}$$

2.5 Frequency List of Low/Middle/High Channels

LTE Band 106 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
3	Channel	-	134322	-
	Frequency	-	899	-
1.4	Channel	134314	134322	134330
	Frequency	898.2	899	899.8

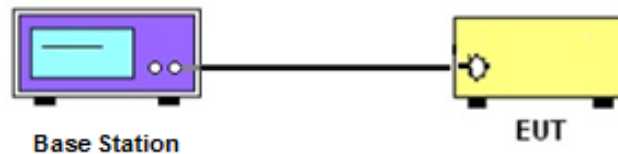
3 Conducted Test Items

3.1 Measuring Instruments

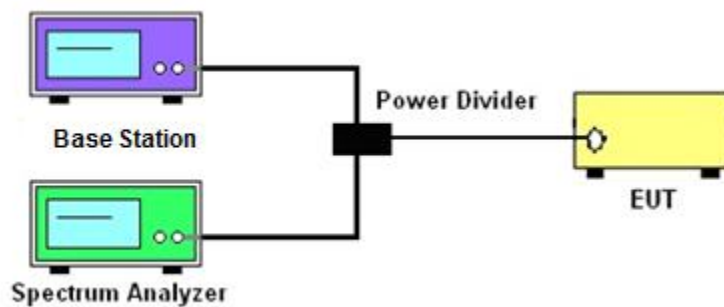
See list of measuring instruments of this test report.

3.2 Test Setup

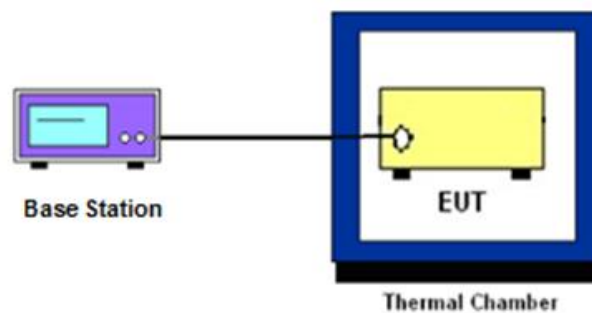
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied / 26dB Bandwidth ,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 Measurement

3.4.1 Description of the Conducted Output Power Measurement

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

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 Effective Radiated Power Limits

3.6.1 Description of ERP

Portable stations must not exceed 3 watts ERP.

3.6.2 Test Procedures

1. According to KDB 412172 D01 Power Approach,
2. $EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, 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

3.7 Occupied Bandwidth

3.7.1 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.

3.7.2 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.

3.8 Conducted Band Edge Measurement

3.8.1 Description of Conducted Band Edge Measurement

27.1509:

The power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) in watts by at least the following amounts:

For 900 MHz broadband operations in 897.5-900.5 MHz band by at least $43 + 10 \log (P)$ dB.

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 band edges of low and high channels for the highest RF powers were measured.
4. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used and the measured power was integrated over the full required measurement bandwidth of 1 MHz.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

Example:

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

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

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

3.9 Conducted Spurious Emission Measurement

3.9.1 Description of Conducted Spurious Emission Measurement

27.1509:

The power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) in watts by at least the following amounts:

For 900 MHz broadband operations in 897.5-900.5 MHz band by at least $43 + 10 \log (P)$ dB.

3.9.2 Test Procedures

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

3.10 Frequency Stability Measurement

3.10.1 Description of Frequency Stability Measurement

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

3.10.2 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.

3.10.3 Test Procedures for Voltage Variation

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

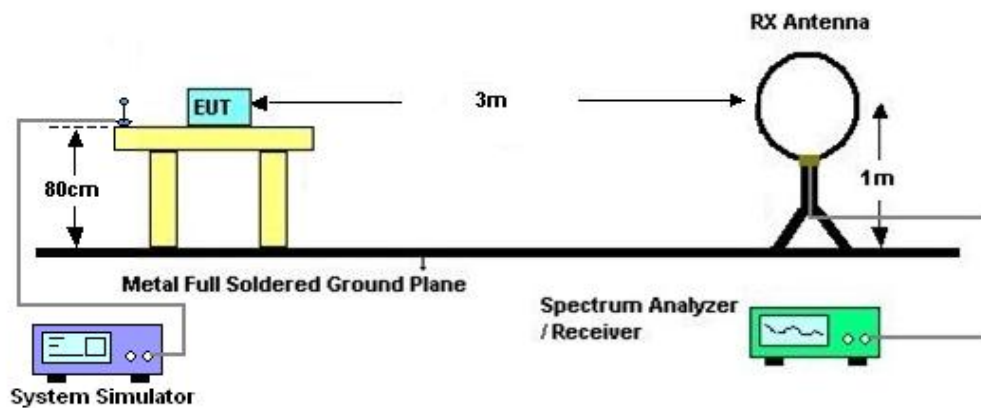
4 Radiated Test Items

4.1 Measuring Instruments

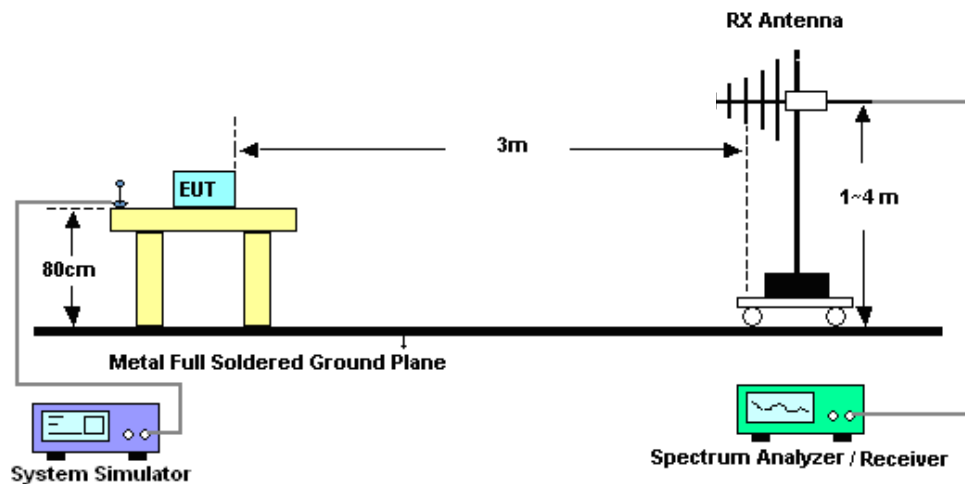
See list of measuring instruments of this test report.

4.2 Test Setup

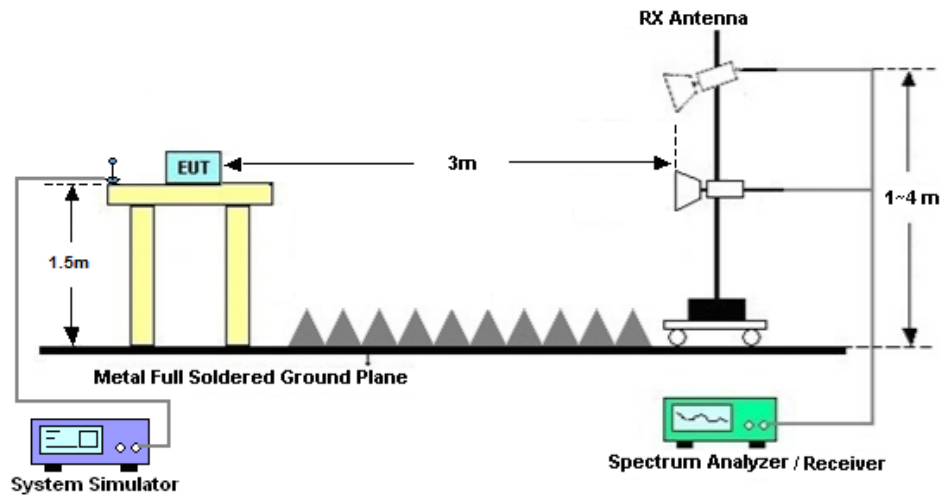
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.

4.4 Radiated Spurious Emission Measurement

4.4.1 Description of Radiated Spurious Emission

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

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

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.

$$\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$$

$$\text{ERP (dBm)} = \text{EIRP} - 2.15$$

10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

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

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

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

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

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 02, 2025	Oct. 16, 2025	Apr. 01, 2026	Conducted (TH01-SZ)
Power Divider	Titan	P02N005180	923402	0.4GHz~26.5GHz	Nov. 08, 2024	Oct. 16, 2025	Nov. 07, 2025	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 02, 2025	Oct. 16, 2025	Jul. 01, 2026	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2025	Dec. 01, 2025	Jul. 02, 2026	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Dec. 01, 2025	Dec. 27, 2025	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Oct. 24, 2025	Dec. 01, 2025	Oct. 23, 2027	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2025	Dec. 01, 2025	Jul. 04, 2026	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2025	Dec. 01, 2025	Jul. 03, 2026	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz~40GHz	Apr. 03, 2025	Dec. 01, 2025	Apr. 02, 2027	Radiation (03CH02-SZ)
LF Amplifier	EM Electronics	EM330	060788	20MHz~3GHz	Dec. 25, 2024	Dec. 01, 2025	Dec. 24, 2025	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 14, 2025	Dec. 01, 2025	Oct. 13, 2026	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Oct. 18, 2025	Dec. 01, 2025	Oct. 17, 2026	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Dec. 01, 2025	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Dec. 01, 2025	NCR	Radiation (03CH02-SZ)

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% ($U = 2Uc(y)$)	2.47dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.31dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

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

Appendix A. Test Results of Conducted Test

Test Engineer :	Khan Zhen	Temperature :	22~23°C
		Relative Humidity :	40~42%

Conducted Output Power(Average power) and ERP

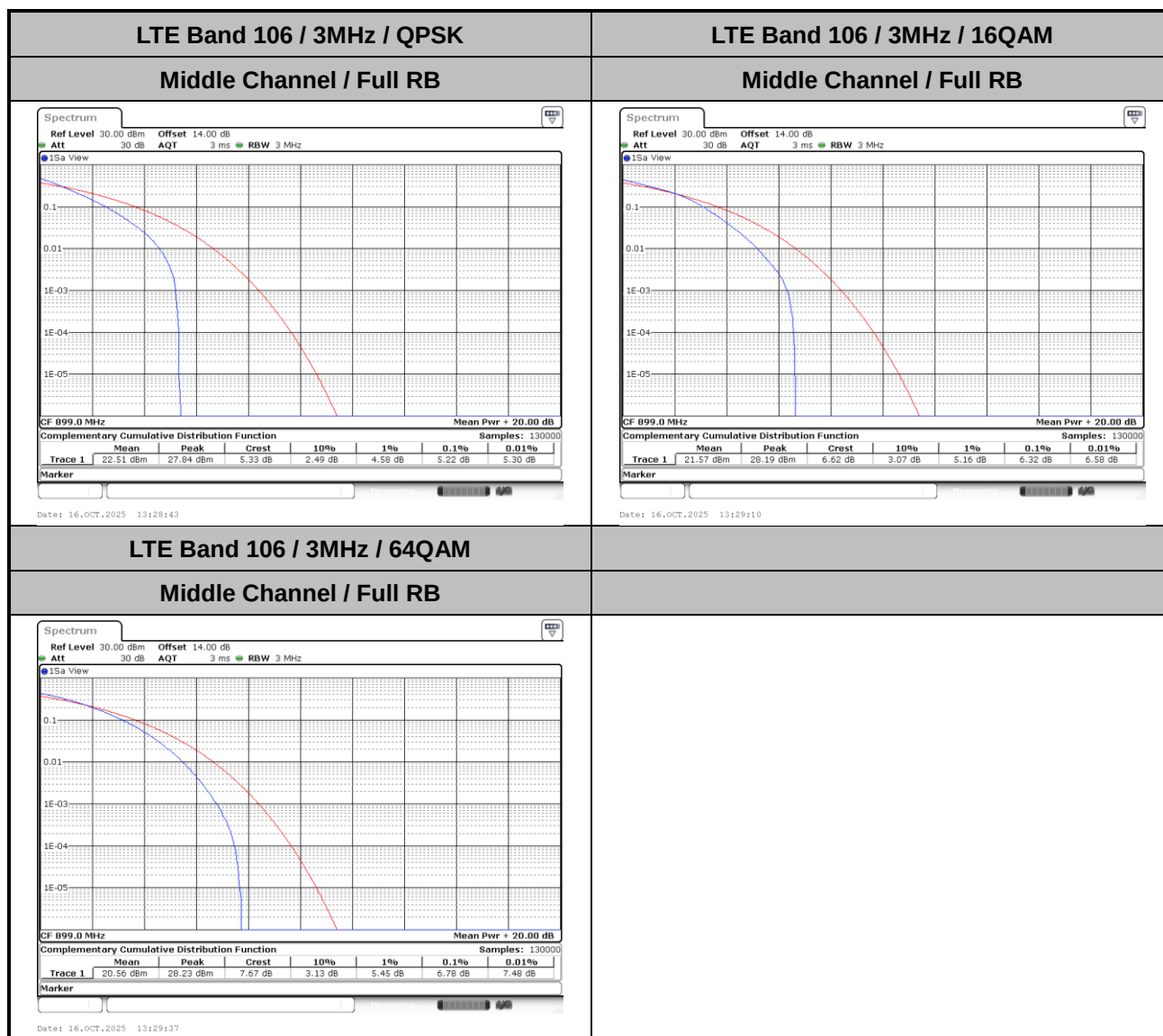
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel					134322				
Frequency (MHz)					899		L	M	H
3	QPSK	1	0		23.48			0.1406	
3	QPSK	1	8		23.45			0.1396	
3	QPSK	1	14		23.44			0.1393	
3	QPSK	8	0		22.23			0.1054	
3	QPSK	8	4		22.30			0.1072	
3	QPSK	8	7		22.35			0.1084	
3	QPSK	15	0		22.27			0.1064	
3	16QAM	1	0		22.13			0.1030	
3	16QAM	1	8		22.10			0.1023	
3	16QAM	1	14		22.23			0.1054	
3	16QAM	8	0		21.23			0.0838	
3	16QAM	8	4		21.37			0.0865	
3	16QAM	8	7		21.38			0.0867	
3	16QAM	15	0		21.28			0.0847	
3	64QAM	1	0		21.29			0.0849	
3	64QAM	1	8		21.48			0.0887	
3	64QAM	1	14		21.45			0.0881	
3	64QAM	8	0		20.25			0.0668	
3	64QAM	8	4		20.34			0.0682	
3	64QAM	8	7		20.38			0.0689	
3	64QAM	15	0		21.46			0.0883	
3	256QAM	1	0		18.25			0.0422	
3	256QAM	1	8		18.23			0.0420	
3	256QAM	1	14		18.28			0.0425	
3	256QAM	8	0		18.25			0.0422	
3	256QAM	8	4		18.21			0.0418	
3	256QAM	8	7		18.28			0.0425	
3	256QAM	15	0		18.23			0.0420	
Channel				134314	134322	134330	ERP(W)		
Frequency (MHz)				898.2	899	899.8	L	M	H
1.4	QPSK	1	0	23.35	23.33	23.44	0.1365	0.1358	0.1393
1.4	QPSK	1	3	23.43	23.44	23.44	0.1390	0.1393	0.1393

1.4	QPSK	1	5	23.42	23.34	23.41	0.1387	0.1361	0.1384
1.4	QPSK	3	0	23.34	23.43	23.42	0.1361	0.1390	0.1387
1.4	QPSK	3	1	23.43	23.42	23.42	0.1390	0.1387	0.1387
1.4	QPSK	3	3	23.40	23.36	23.41	0.1380	0.1368	0.1384
1.4	QPSK	6	0	22.51	22.49	22.46	0.1125	0.1119	0.1112
1.4	16QAM	1	0	22.49	22.46	22.53	0.1119	0.1112	0.1130
1.4	16QAM	1	3	22.53	22.52	22.49	0.1130	0.1127	0.1119
1.4	16QAM	1	5	22.48	22.45	22.43	0.1117	0.1109	0.1104
1.4	16QAM	3	0	22.53	22.54	22.48	0.1130	0.1132	0.1117
1.4	16QAM	3	1	22.51	22.47	22.53	0.1125	0.1114	0.1130
1.4	16QAM	3	3	22.53	22.46	22.47	0.1130	0.1112	0.1114
1.4	16QAM	6	0	21.48	21.50	21.46	0.0887	0.0891	0.0883
1.4	64QAM	1	0	21.47	21.54	21.43	0.0885	0.0899	0.0877
1.4	64QAM	1	3	21.55	21.52	21.48	0.0902	0.0895	0.0887
1.4	64QAM	1	5	21.50	21.52	21.43	0.0891	0.0895	0.0877
1.4	64QAM	3	0	21.52	21.49	21.43	0.0895	0.0889	0.0877
1.4	64QAM	3	1	21.47	21.52	21.51	0.0885	0.0895	0.0893
1.4	64QAM	3	3	21.47	21.50	21.47	0.0885	0.0891	0.0885
1.4	64QAM	6	0	20.49	20.52	20.54	0.0706	0.0711	0.0714
1.4	256QAM	1	0	18.53	18.51	18.46	0.0450	0.0448	0.0443
1.4	256QAM	1	3	18.52	18.50	18.46	0.0449	0.0447	0.0443
1.4	256QAM	1	5	18.52	18.48	18.44	0.0449	0.0445	0.0441
1.4	256QAM	3	0	18.45	18.43	18.53	0.0442	0.0440	0.0450
1.4	256QAM	3	1	18.52	18.51	18.50	0.0449	0.0448	0.0447
1.4	256QAM	3	3	18.51	18.54	18.50	0.0448	0.0451	0.0447
1.4	256QAM	6	0	18.48	18.44	18.48	0.0445	0.0441	0.0445

LTE Band 106

Peak-to-Average Ratio

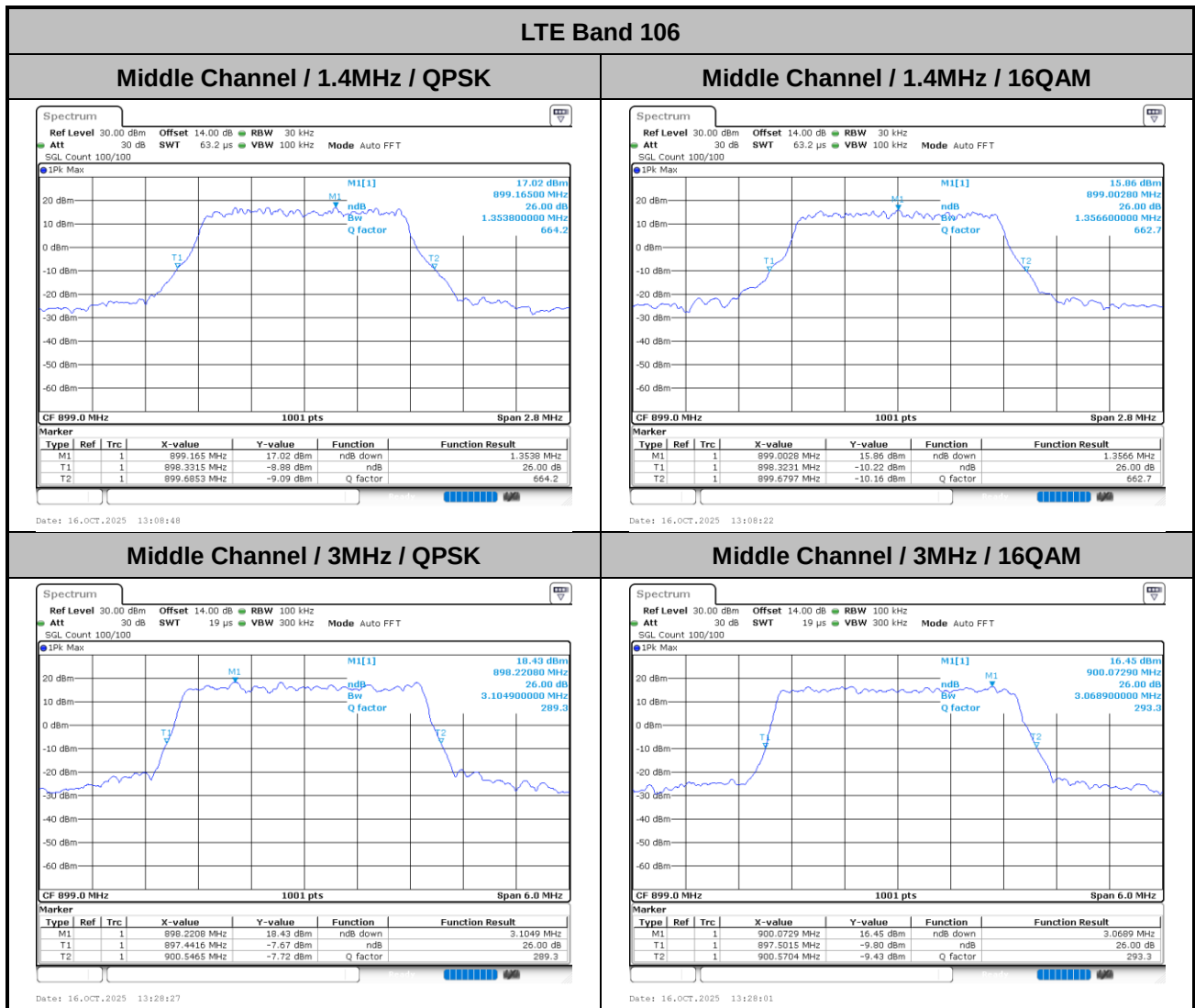
Mode	LTE Band 106 / 3MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.22	6.32	6.78	PASS





26dB Bandwidth

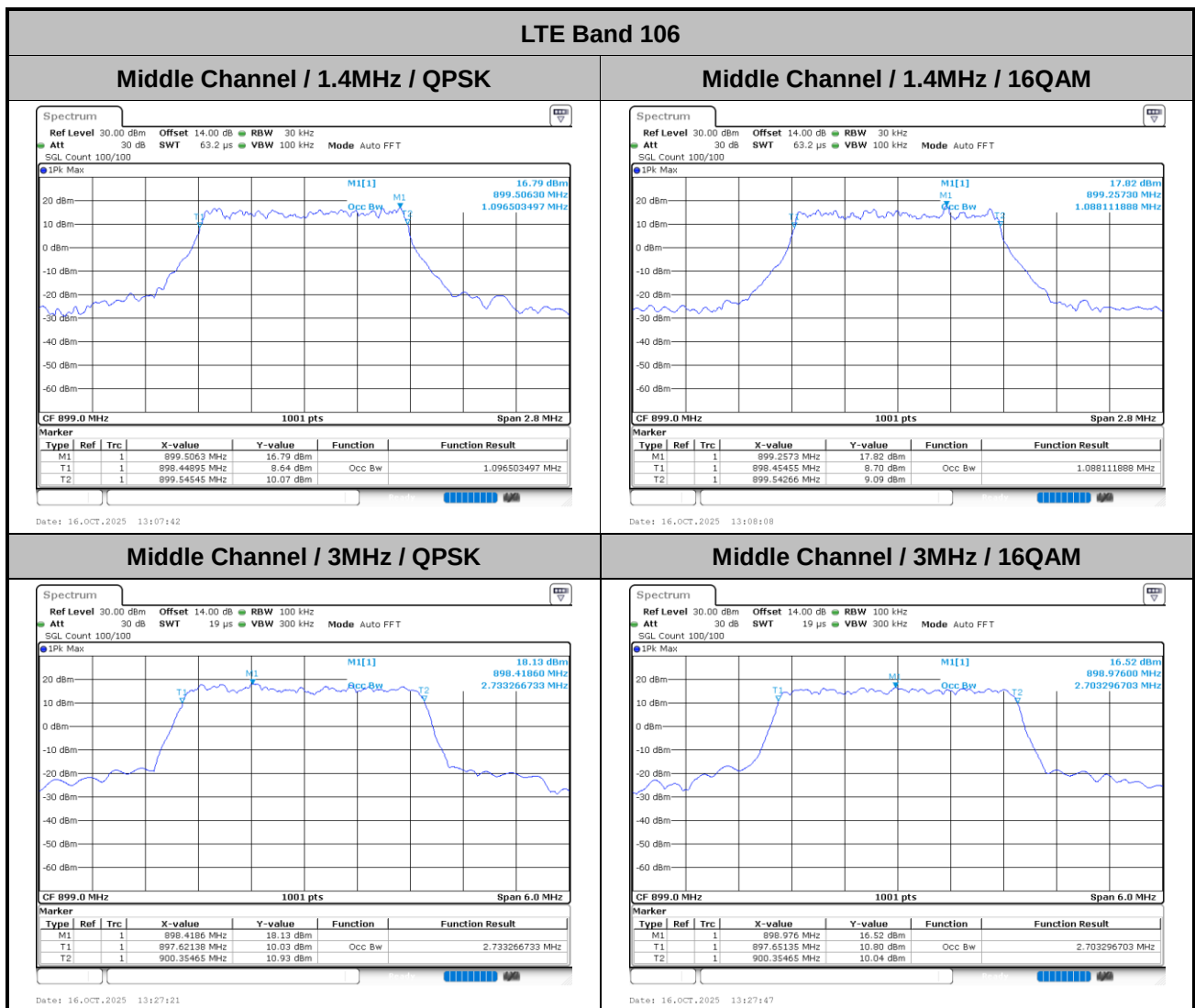
Mode	LTE Band 106 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.35	1.36	3.10	3.07	-	-	-	-	-	-	-	-





Occupied Bandwidth

Mode	LTE Band 106 : 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	1.10	1.09	2.73	2.70	-	-	-	-	-	-	-	-

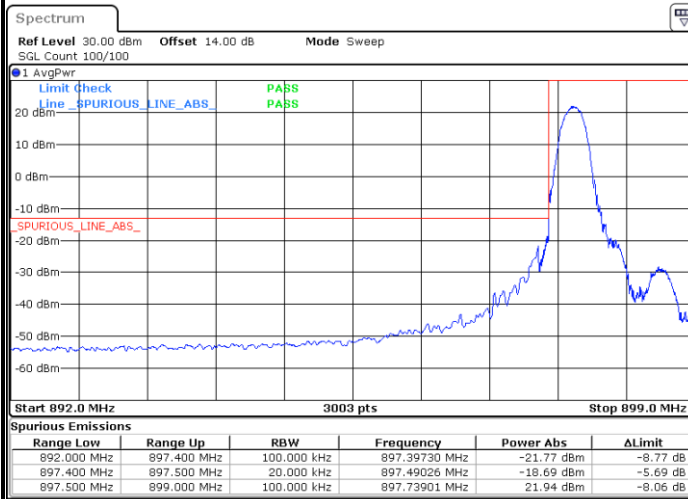




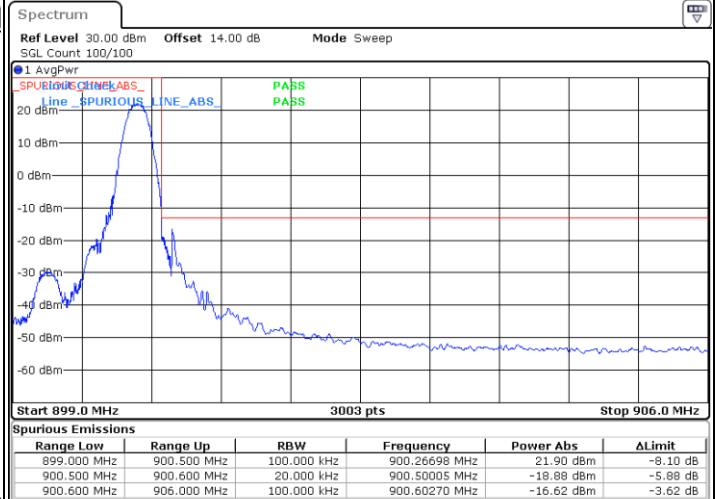
Conducted Band Edge

LTE Band 106 / 1.4MHz / QPSK

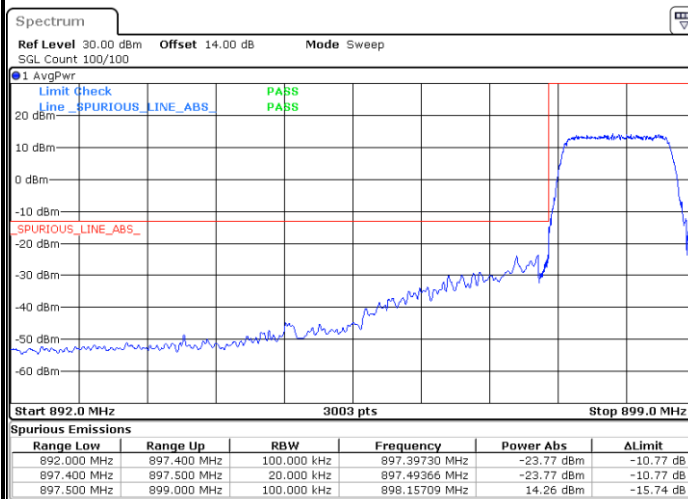
Lowest Band Edge / 1RB



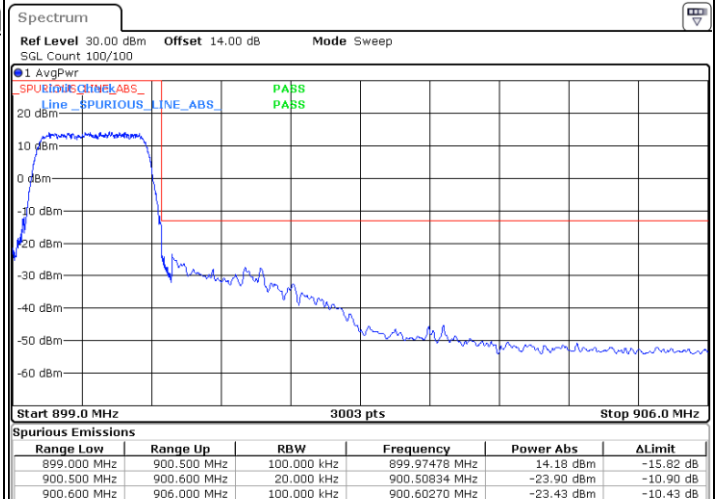
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



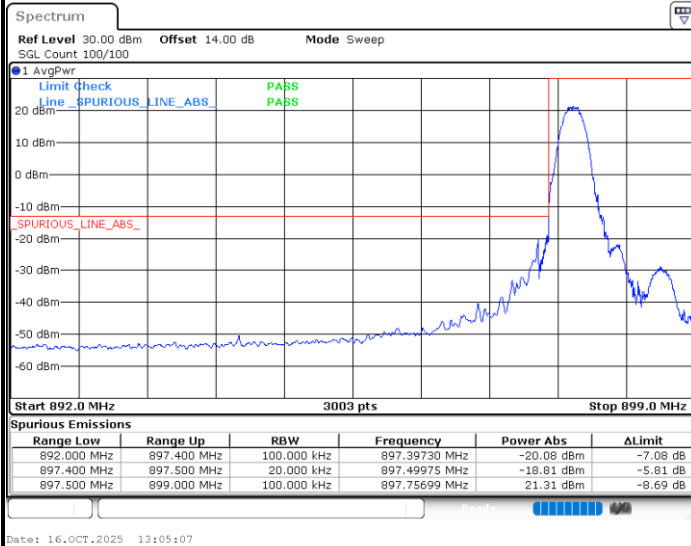
Highest Band Edge / Full RB



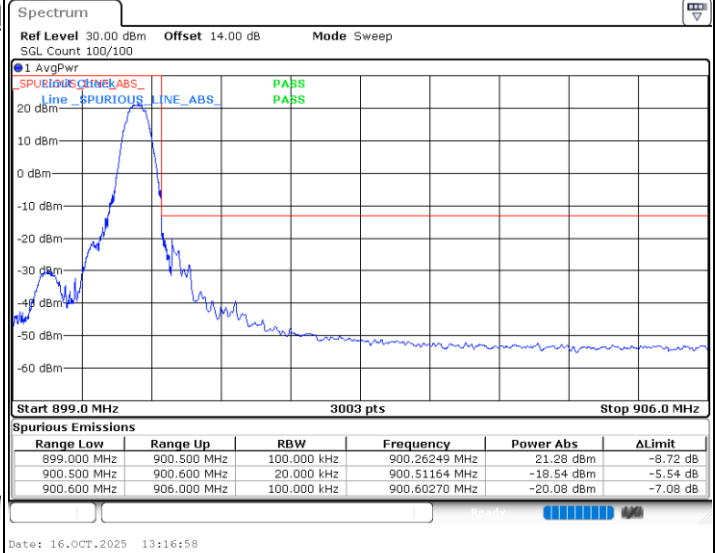


LTE Band 106 / 1.4MHz / 16QAM

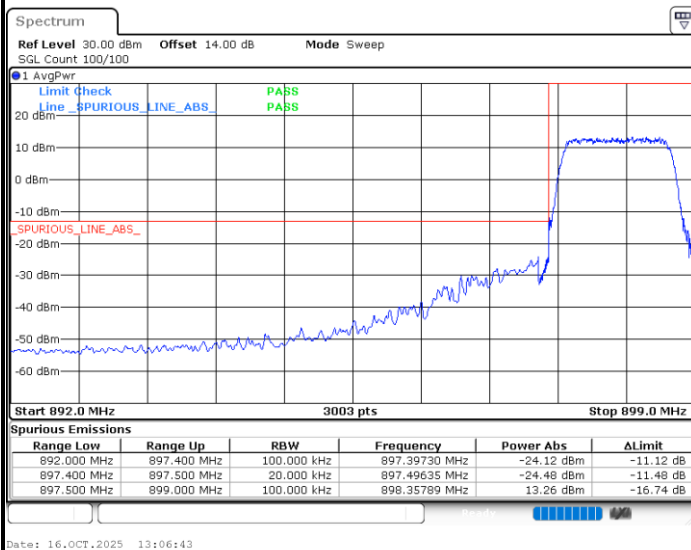
Lowest Band Edge / 1 RB



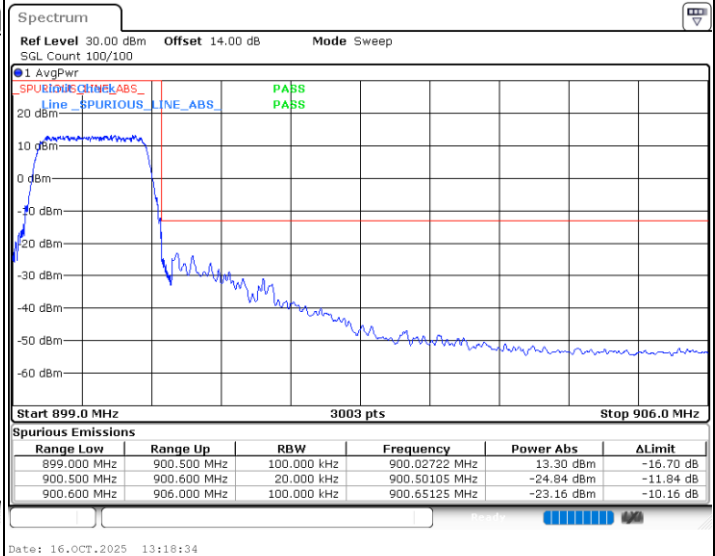
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



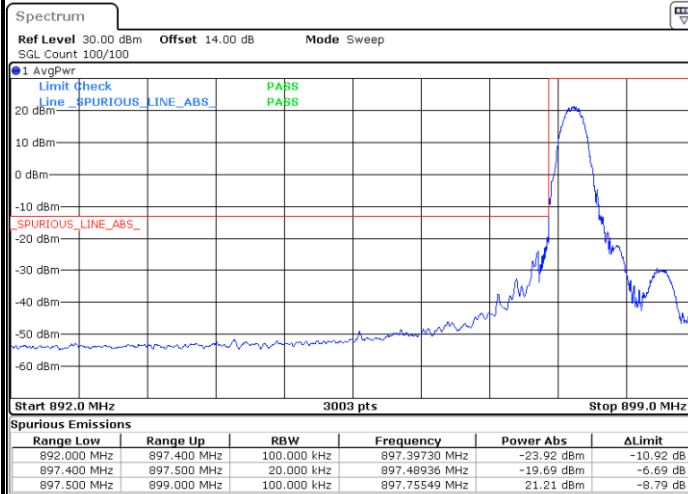
Highest Band Edge / Full RB





LTE Band 106 / 1.4MHz / 64QAM

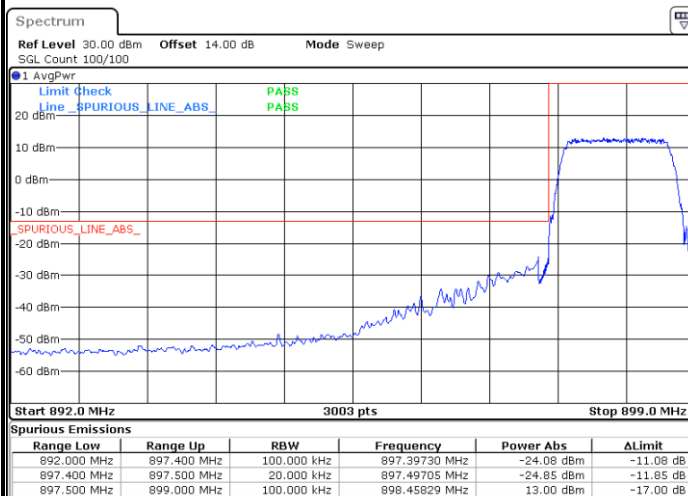
Lowest Band Edge / 1 RB



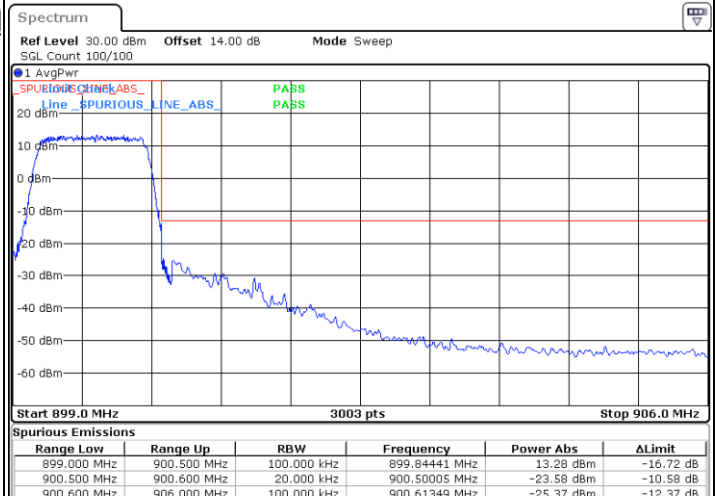
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



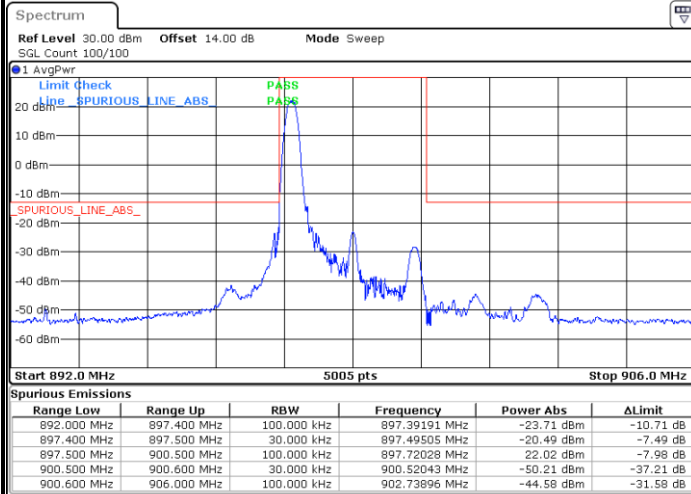
Highest Band Edge / Full RB





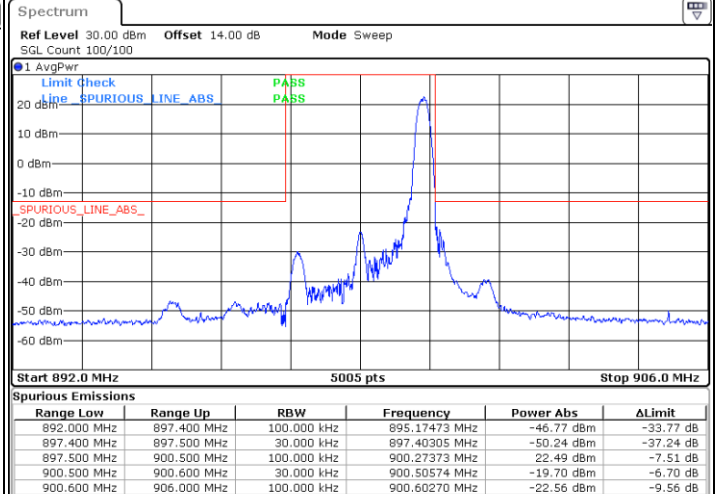
LTE Band 106 / 3MHz / QPSK

Middle Band Edge / 1RB



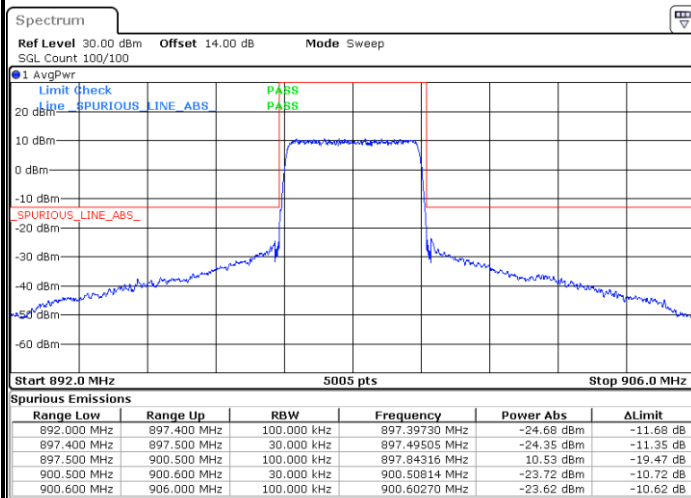
Date: 16.OCT.2025 13:24:36

Middle Band Edge / 1RB



Date: 16.OCT.2025 13:25:50

Middle Band Edge / Full RB

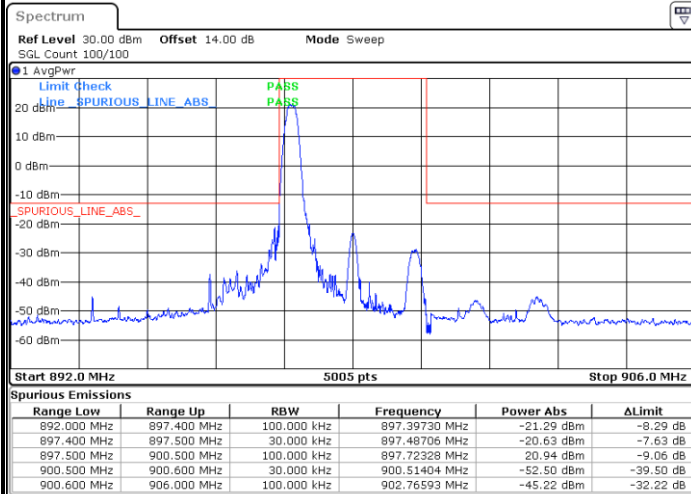


Date: 16.OCT.2025 13:21:57



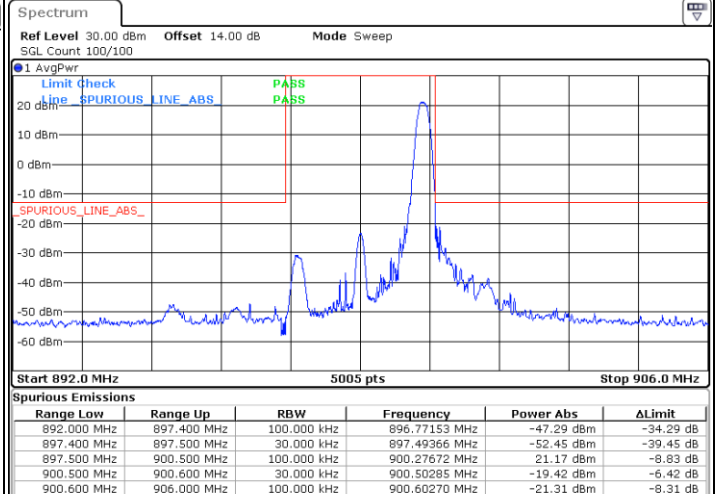
LTE Band 106 / 3MHz / 16QAM

Middle Band Edge / 1 RB



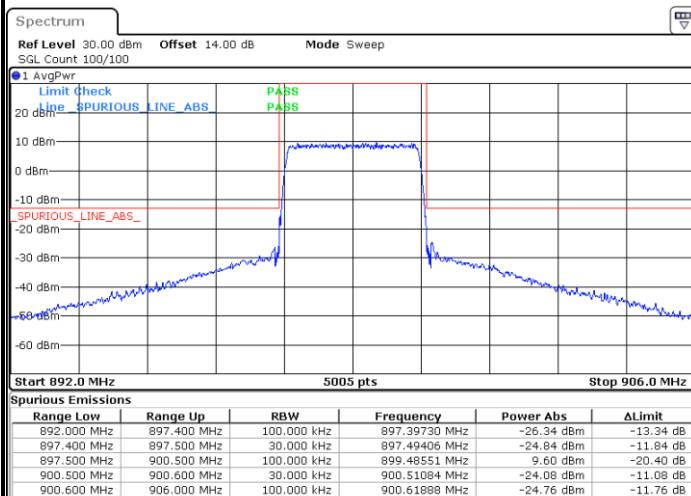
Date: 16.OCT.2025 13:24:05

Middle Band Edge / 1 RB



Date: 16.OCT.2025 13:26:22

Middle Band Edge / Full RB

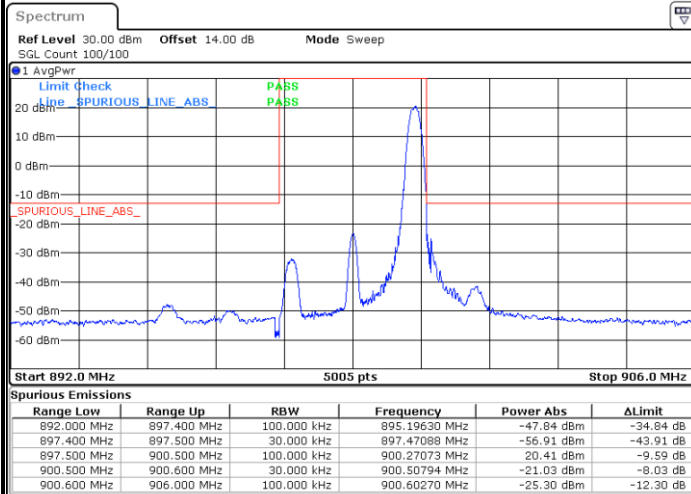


Date: 16.OCT.2025 13:22:29



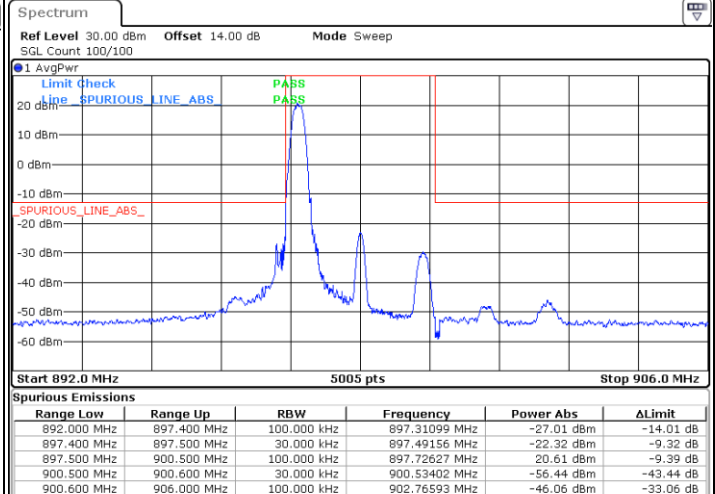
LTE Band 106 / 3MHz / 64QAM

Middle Band Edge / 1 RB



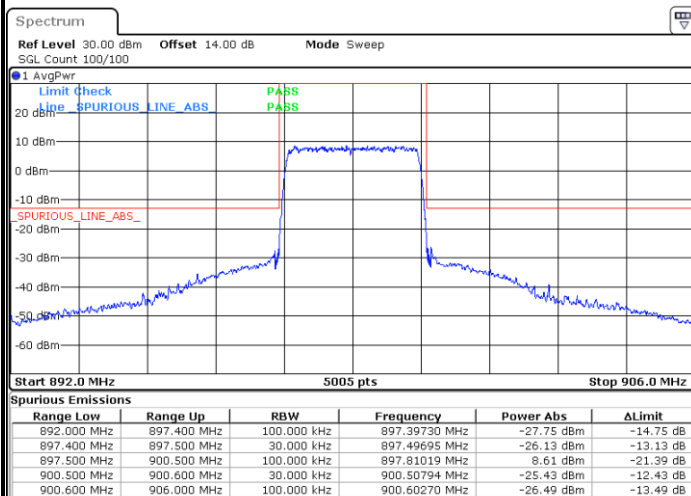
Date: 16.OCT.2025 13:26:54

Middle Band Edge / 1 RB



Date: 16.OCT.2025 13:23:33

Middle Band Edge / Full RB



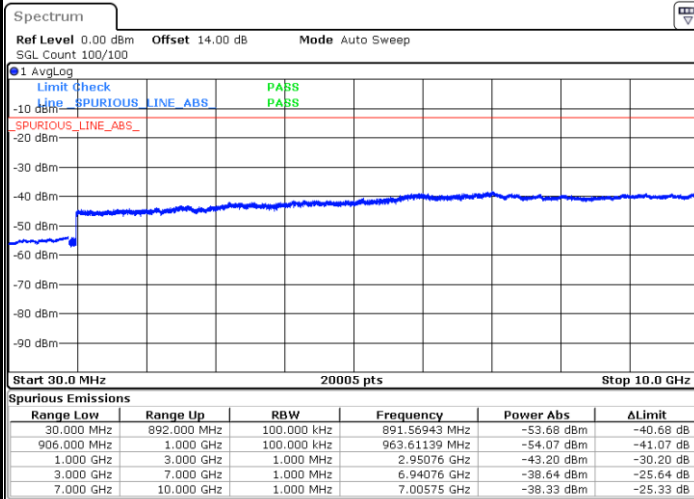
Date: 16.OCT.2025 13:23:01



Conducted Spurious Emission

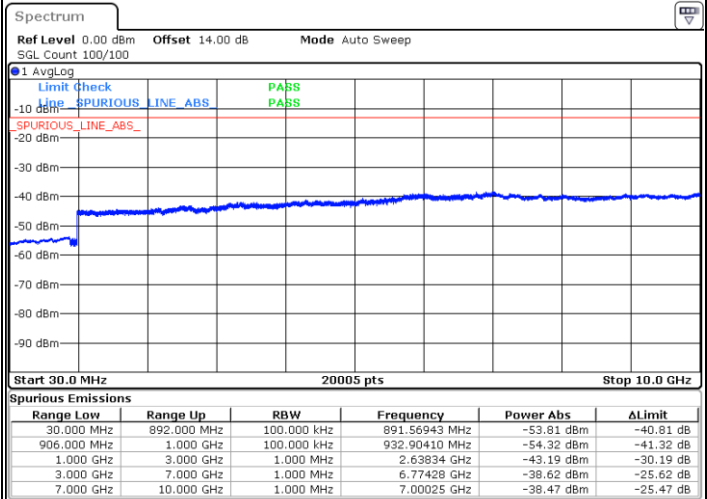
LTE Band 106 / 1.4MHz

Lowest Channel / QPSK



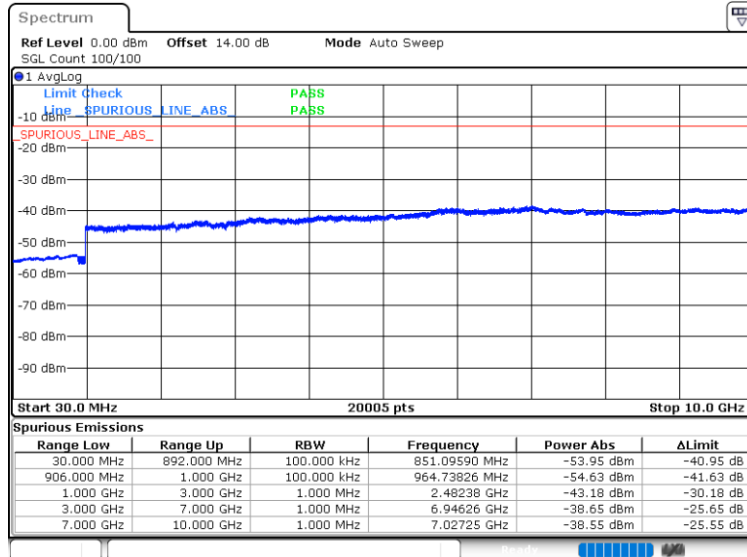
Date: 16.OCT.2025 12:00:00

Middle Channel / QPSK



Date: 16.OCT.2025 13:09:52

Highest Channel / QPSK

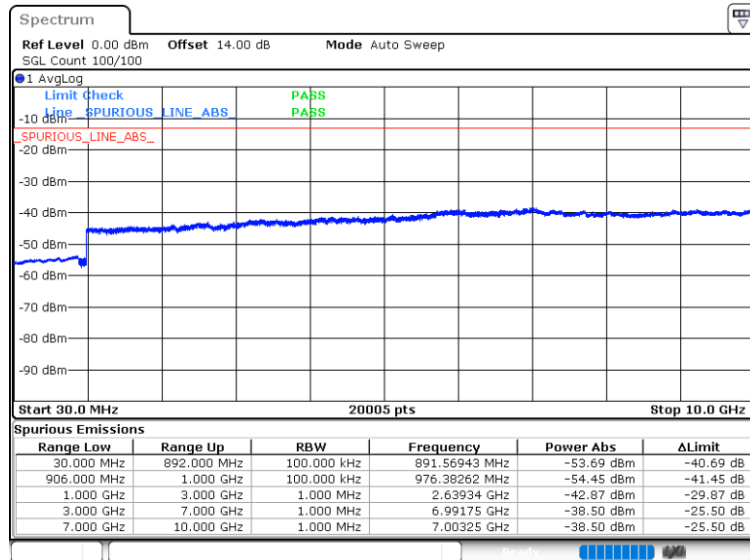


Date: 16.OCT.2025 13:15:55



LTE Band 106 / 3MHz

Middle Channel / QPSK



Date: 16.OCT.2025 13:25:19

Frequency Stability

Test Conditions		LTE Band 106 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 1.4MHz	Note 2.
		Frequency Offset (Δf) (Hz)	Result
50	Normal Voltage	1.6	PASS
40	Normal Voltage	1.9	
30	Normal Voltage	2	
20(Ref.)	Normal Voltage	2.4	
10	Normal Voltage	-3.1	
0	Normal Voltage	2.2	
-10	Normal Voltage	-1.6	
-20	Normal Voltage	3.2	
-30	Normal Voltage	1.9	
20	Maximum Voltage	3.1	
20	Normal Voltage	2.4	
20	Battery End Point	-2.3	

Note:

1. Normal Voltage = 3.91 V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage = 4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	LiangPingZhou	Temperature :	22~23°C
		Relative Humidity :	40~42%

LTE Band 106 / 1.4MHz / QPSK for Sample 1									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1792.14	-66.02	-13	-53.02	-76.10	-69.25	3.98	9.36	H
	2688.21	-42.65	-13	-29.65	-57.22	-46.20	4.85	10.55	H
	3584.28	-60.89	-13	-47.89	-78.57	-65.82	5.50	12.58	H
	1792.14	-66.64	-13	-53.64	-76.33	-69.87	3.98	9.36	V
	2688.21	-51.82	-13	-38.82	-66.41	-55.37	4.85	10.55	V
	3584.28	-61.42	-13	-48.42	-78.94	-66.35	5.50	12.58	V
Middle	1796.74	-65.70	-13	-52.70	-75.78	-68.95	4.00	9.40	H
	2695.11	-42.34	-13	-29.34	-57.00	-45.91	4.88	10.60	H
	3593.48	-61.05	-13	-48.05	-78.88	-65.98	5.52	12.60	H
	1796.74	-66.15	-13	-53.15	-75.84	-69.40	4.00	9.40	V
	2695.11	-50.79	-13	-37.79	-65.49	-54.36	4.88	10.60	V
	3593.48	-61.38	-13	-48.38	-79.02	-66.31	5.52	12.60	V
High	1799.34	-66.13	-13	-53.13	-76.21	-69.30	4.10	9.42	H
	2699.01	-41.99	-13	-28.99	-56.66	-45.57	4.90	10.63	H
	3598.68	-61.03	-13	-48.03	-78.86	-65.95	5.55	12.62	H
	1799.34	-66.46	-13	-53.46	-76.15	-69.63	4.10	9.42	V
	2699.01	-50.17	-13	-37.17	-64.88	-53.75	4.90	10.63	V
	3598.68	-61.28	-13	-48.28	-78.92	-66.20	5.55	12.62	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 106 / 3MHz / QPSK for Sample 1									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1795.3	-62.77	-13	-49.77	-72.85	-66.02	4.00	9.40	H
	2692.95	-39.26	-13	-26.26	-53.92	-42.83	4.88	10.60	H
	3590.6	-60.39	-13	-47.39	-78.08	-65.32	5.52	12.60	H
	1795.3	-66.16	-13	-53.16	-75.85	-69.41	4.00	9.40	V
	2692.95	-49.40	-13	-36.40	-64.10	-52.97	4.88	10.60	V
	3590.6	-61.13	-13	-48.13	-78.66	-66.06	5.52	12.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 106 / 1.4MHz / QPSK for Sample 2									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1792.14	-65.73	-13	-52.73	-75.81	-68.96	3.98	9.36	H
	2688.21	-47.86	-13	-34.86	-62.43	-51.41	4.85	10.55	H
	3584.28	-60.78	-13	-47.78	-78.46	-65.71	5.50	12.58	H
	1792.14	-66.24	-13	-53.24	-75.93	-69.47	3.98	9.36	V
	2688.21	-54.93	-13	-41.93	-69.52	-58.48	4.85	10.55	V
	3584.28	-61.00	-13	-48.00	-78.52	-65.93	5.50	12.58	V
Middle	1796.74	-65.76	-13	-52.76	-75.84	-69.01	4.00	9.40	H
	2695.11	-48.92	-13	-35.92	-63.58	-52.49	4.88	10.60	H
	3593.48	-60.66	-13	-47.66	-78.49	-65.59	5.52	12.60	H
	1796.74	-66.26	-13	-53.26	-75.95	-69.51	4.00	9.40	V
	2695.11	-54.24	-13	-41.24	-68.94	-57.81	4.88	10.60	V
	3593.48	-61.14	-13	-48.14	-78.78	-66.07	5.52	12.60	V
High	1799.34	-65.66	-13	-52.66	-75.74	-68.83	4.10	9.42	H
	2699.01	-48.15	-13	-35.15	-62.82	-51.73	4.90	10.63	H
	3598.68	-60.67	-13	-47.67	-78.50	-65.59	5.55	12.62	H
	1799.34	-66.14	-13	-53.14	-75.83	-69.31	4.10	9.42	V
	2699.01	-53.92	-13	-40.92	-68.63	-57.50	4.90	10.63	V
	3598.68	-60.74	-13	-47.74	-78.38	-65.66	5.55	12.62	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 106 / 3MHz / QPSK for Sample 2									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1795.3	-64.78	-13	-51.78	-74.86	-68.03	4.00	9.40	H
	2692.95	-40.05	-13	-27.05	-54.71	-43.62	4.88	10.60	H
	3590.6	-60.00	-13	-47.00	-77.69	-64.93	5.52	12.60	H
	1795.3	-65.01	-13	-52.01	-74.70	-68.26	4.00	9.40	V
	2692.95	-58.42	-13	-45.42	-73.12	-61.99	4.88	10.60	V
	3590.6	-60.21	-13	-47.21	-77.74	-65.14	5.52	12.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.