Testing Laboratory
3024

Test Report No:
2570279R-RFUSV24S-A

TEST REPORT
FCC Rules&Regulations

Product Name	Pyxis Duo
Brand Name	UBIIK
Model No.	Pyxis Duo RB701D, Pyxis Duo RB016
FCC ID	2AXTDRB016
Applicant´s Name / Address	Ubiik Inc. 19F., No. 17, Sec. 1, Chengde Rd., Datong Dist., Taipei City 103, Taiwan (R.O.C.)
Manufacturer's Name / Address	Ubiik Inc. 19F., No. 17, Sec. 1, Chengde Rd., Datong Dist., Taipei City 103, Taiwan (R.O.C.)
Test Method Requested, Standard	FCC CFR Title 47 Part 27 Subpart P ANSI/TIA-603-E-2016 ANSI C63.26-2015
Verdict Summary	IN COMPLIANCE
Documented By	Jennie She Jennie She
Approved By	Allen Lin Allen Lin
Date of Receipt	Jul. 09, 2025
Date of Issue	Oct. 08, 2025
Report Version	V1.0

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Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.
In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

General Conditions

1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Oct. 08, 2025

Summary of Test Result

Report Clause	Test Items	Band	Ref Std. Clause	Limit	Result (PASS/FAIL)	Remark
3	RF Output Power	106	§2.1046 §27.1507	Mobile stations < 10 Watts ERP Power	PASS	-
4	Occupied Bandwidth	106	§2.1049	N/A	PASS	-
5	Peak to Average Power Ratio	106	§27.1507	≦ 13 dB	PASS	-
6	Spurious Emission	106	§2.1053 §27.1509	< -13 dBm	PASS	-
7	Conducted Band Edge	106	§2.1051 §27.1509	< -13 dBm	PASS	-
8	Frequency Stability	106	§2.1055 §27.54	± 2.5 ppm	PASS	-
Note: For model Pyxis Duo RB701D, it contains a certified WWAN module (model: GCM4701NA, FCC ID: 2BGOOGCM4701NA).						

Comments and Explanations
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Comments and Remarks

The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

1. General Information

1.1. EUT Description

Uplink Frequency Range (MHz)	LTE Band 106: 897.5 ~ 900.5
Downlink Frequency Range (MHz)	LTE Band 106: 936.5 ~ 939.5
Bandwidth (MHz)	LTE Band 106: 1.4
Type of Modulation	QPSK / 16QAM

Accessories Information					
No.	Equipment Name	Brand Name	Model No.	Rating	Remark
1	Power Adapter	Ktec	KSA-36W-120300D5	INPUT: 100-240V, 1A, 50-60Hz OUTPUT: 12V, 3A, 36W	With power cable: Non-Shielded, 1.5m
No.	Equipment Name	Brand Name	Model No.	Description	
2	Ethernet Cable	NIENYI	0572-1150000002	Non-Shielded, 1.5m	
3	GPIO and Power Cable	U-MEDIA	0573-1200090003	Non-Shielded, 2m	

The difference for each model is shown as below:

Model No.	Description
Pyxis Duo RB701D	Contain a certified WWAN module. The details are provided below. Brand Name: CM PARTNER; Model No.: GCM4701NA; FCC ID: 2BGOOGCM4701NA; Bands: LTE Band 48, LTE Band 54
Pyxis Duo RB016	Identical except without the WWAN module.

From the above models, model: Pyxis Duo RB701D was selected as representative model for the test, and its data was recorded in this report.

For SRD / WWAN Function:

<For Model: Pyxis Duo RB701D>

Antenna Information							
Ant.	Brand Name	Model No.	Type	Antenna Gain (dBi)	Cable Loss (dB)	Actual Gain (dBi)	Remark
1	Dawn Communication Co., Ltd.	DB-896-960V-13-75-NV2	Panel	13	0.39	12.61	with cable , Not included with the product
2	JOYMAX ELECTRONICS CO., LTD.	ZWX-715BSA5B-1264	Dipole	1.2	-	-	Included with the product, 3 pcs

Note:

1. The EUT supports the 1TX function.
2. The EUT has 2 antennas, and only Ant. 1 is the highest gain and be evaluated.
3. Although the antenna 1 is not included in the shipment, it has been documented in this report as per the manufacturer's request.

For SRD / WWAN Function:

<For Model: Pyxis Duo RB016>

Antenna Information							
Ant.	Brand Name	Model No.	Type	Antenna Gain (dBi)	Cable Loss (dB)	Actual Gain (dBi)	Remark
1	Dawn Communication Co., Ltd.	DB-896-960V-13-75-NV2	Panel	13	0.39	12.61	with cable , Not included with the product
2	JOYMAX ELECTRONICS CO., LTD.	ZWX-715BSA5B-1264	Dipole	1.2	-	-	Included with the product, 1 pcs

Note:

1. The EUT supports the 1TX function.
2. The EUT has 2 antennas, and only Ant. 1 is the highest gain and be evaluated.

Although the antenna 1 is not included in the shipment, it has been documented in this report as per the manufacturer's request.

For WiFi 2.4G Function:

Antenna Information					
Ant.	Brand Name	Model No.	Type	Antenna Gain (dBi)	Remark
1	JOYMAX ELECTRONICS CO., LTD.	IWX-1511RSJX-999	Dipole	5	Included with the product

For GNSS Function:

Antenna Information					
Ant.	Brand Name	Model No.	Type	Antenna Gain (dBi)	Remark
1	Jinchang	JCA211Magnet	RHCP	2	Included with the product
2	INPAQ	ENS000041280	RHCP	4.87	Not included with the product

Note:

Although the antenna 1 is not included in the shipment, it has been documented in this report as per the manufacturer's request.

1.2. EUT Information

EUT Power Type	From Adapter / DC Power	
EUT Function	☐	Base and repeater stations
	☒	Mobile, control and auxiliary test stations
	☐	Portable stations

1.3. Testing Applied Standards

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

- FCC CFR Title 47 Part 27 Subpart P
- FCC CFR Title 47 Part 2
- ANSI/TIA-603-E (2016)
- ANSI C63.26-2015
- FCC KDB 971168 D01 v03r01

The following reference test guidance is not within the scope of accreditation of TAF.

- FCC KDB 412172 D01 v01r01

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

1.4. Testing Location Information

Testing Location Information		
Test Laboratory：DEKRA Testing and Certification Co., Ltd.		
	1 (TAF: 3024)	ADD: No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC. Conformity Assessment Body Identifier (CABID) TW3024 with ISED.
	2 (TAF: 3024)	ADD: No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC. Conformity Assessment Body Identifier (CABID) TW3024 with ISED.
Test site number for address 1 includes HC-SR02 and HC-CB10. Test site number for address 2 includes HC-CB02, HC-CB03, HC-CB04, HC-SR10 and HC-SR12.		

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted Emission	HC-SR12	Max Chang	24 / 61	2025/09/04
Radiated Emission	HC-CB02	Brook Cheng Scott Chang	21~24 / 55~68	2025/08/25~2025/09/30

1.5. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2).

Test Item	Uncertainty
RF Output Power	± 1.16 dB
Occupied Bandwidth	± 217.9 Hz
Peak to Average Power Ratio	± 2.47 dB
Spurious Emissions	± 3.52 dB below 1 GHz ± 3.56 dB above 1 GHz
Conducted Band Edge	± 2.47 dB
Frequency Stability	± 217.9 Hz

1.6. List of Test Equipment

HC-SR12

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
Wireless Conn. Tester	R&S	CMW500	157118	Simulator	2025/07/01	2026/06/30

HC-CB02

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
Wideband Radio Communication Tester	R&S	CMW500	106071	LTE 4G	2025/01/16	2026/01/15

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2. Test Configuration of EUT

2.1. Test Condition

EUT Operational Condition			
For Frequency Stability test:			
Testing Voltage	Vnom (AC 120V/60Hz)	Vmax (AC 138V/60Hz)	Vmin (AC 102V/60Hz)
Operational Climatic	Tnom (25℃)	Tmax (65℃)	Tmin (-40℃)
For other test items:			
Testing Voltage	Vnom (AC 120V/60Hz)		
Operational Climatic	Tnom (25℃)		

2.2. The Worst Case Measurement Configuration

Test Mode	Mode 1 : Power Adapter Mode 2 : GPIO and Power Cable

Note:
1. Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The device was tested under all bandwidths, RB configurations and modulations.
   The worst case was found in “QPSK” and show in “Conducted Band Edge”.
   The worst case was found in “QPSK / 1RB” and show in “Spurious Emission”.
3. The EUT was performed at X axis, Y axis and Z axis position for radiated spurious emission test.
   The worst case was found at X axis, so the measurement will follow this same test configuration.
4. The EUT could be applied with WiFi 2.4 GHz, LTE B106, SRD and LTE certified module functions; therefore Co-location Maximum Permissible Exposure (please refer to DEKRA Test Report No.: 2570279R-RFUSV17S-A).

2.3. Tested System Details

Test Mode: Mode 1

No.	Equipment	Brand Name	Model No.	Serial No.
1	Base Station	R&S	CMW500	157118
2	2Way Divider	Marvelous Microwave	-	-
3	50 ohm	-	-	-

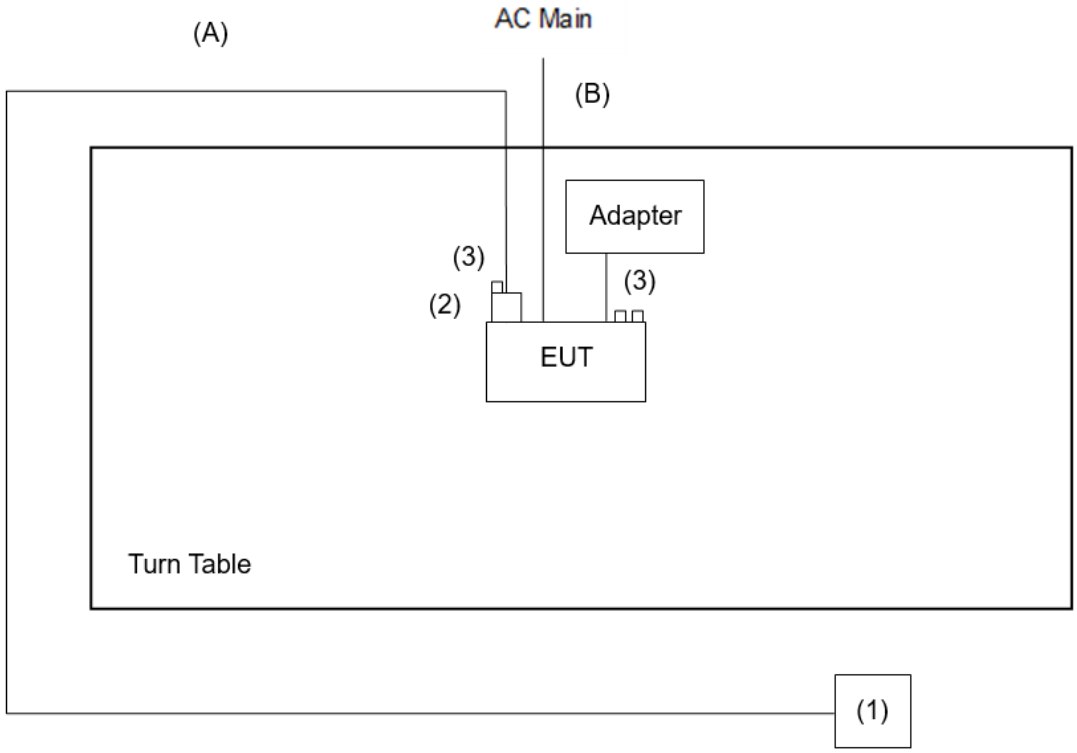
Test Mode: Mode 2

No.	Equipment	Brand Name	Model No.	Serial No.
1	Base Station	R&S	CMW500	157118
2	2Way Divider	Marvelous Microwave	-	-
3	50 ohm	-	-	-
4	Power Supply	Topward	6303D	809497

2.4. Configuration of Tested System

Test Mode: Mode 1

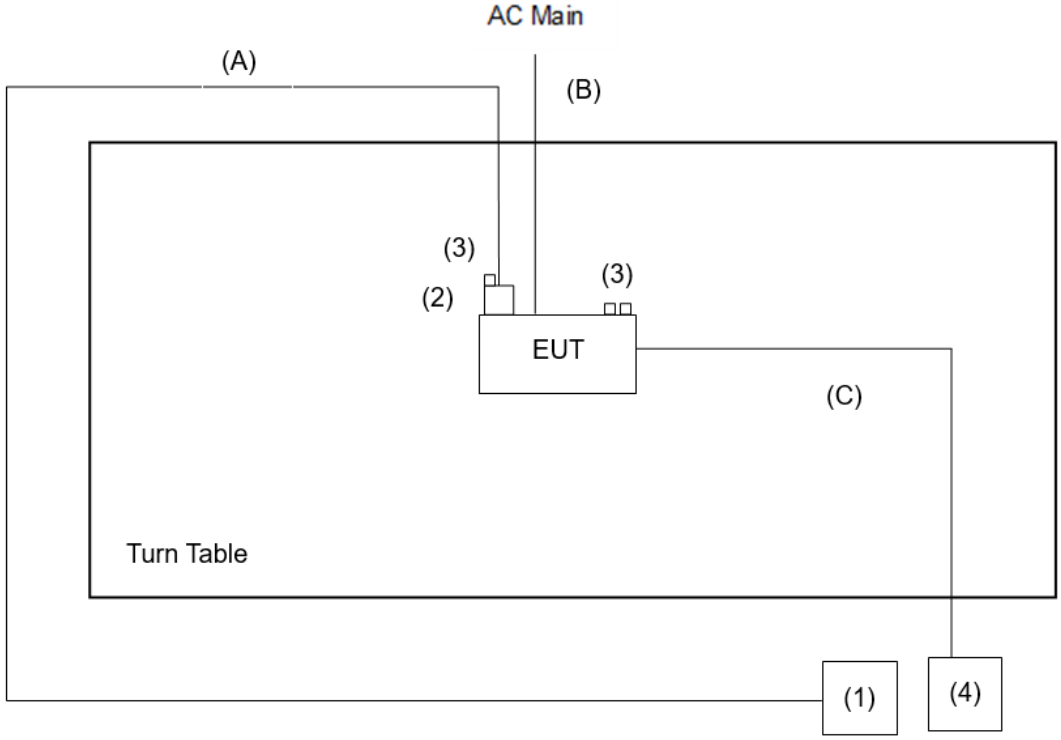
Connection Diagram - EUT + 50Ω termination matching



Signal Cable Type		Signal cable Description
A	Antenna Cable	Non-Shielded, 6m
B	GND Cable	Non-Shielded, 2.5m

Test Mode: Mode 2

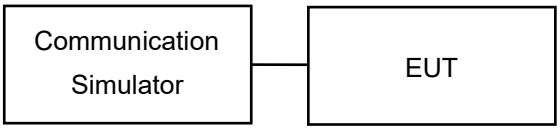
Connection Diagram - EUT + 50Ω termination matching



Signal Cable Type		Signal cable Description
A	Ethernet Cable	Non-Shielded, 10m
B	GND Cable	Non-Shielded, 2.5m
C	GPIO and Power Cable	Non-Shielded, 2m

3. RF Output Power

3.1. Test Setup



3.2. Test Procedure

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum conducted RF output power under transmission mode and specific channel frequency. The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP or EIRP} = P_{Meas} + G_T - L_C$$

where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

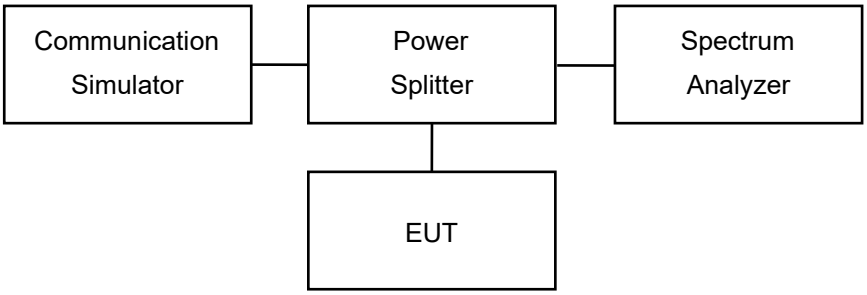
L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB

3.3. Test Result of RF Output Power

Refer as Appendix A

4. Occupied Bandwidth

4.1. Test Setup



4.2. Test Procedures

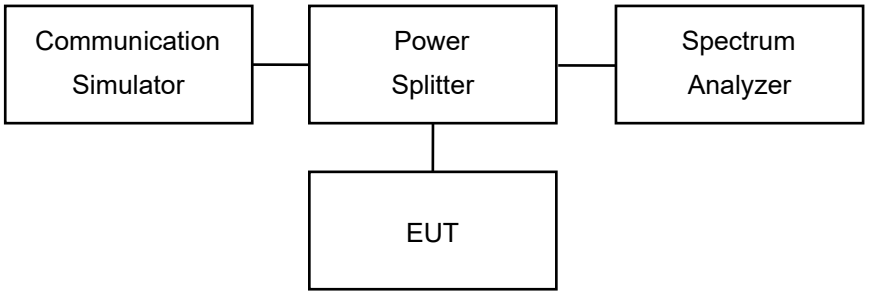
The EUT makes a call to the communication simulator. The 26dB bandwidth and 99% occupied bandwidth measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. The path loss was compensated to the results for each measurement.

4.3. Test Result of Occupied Bandwidth

Refer as Appendix B

5. Peak to Average Power Ratio

5.1. Test Setup



5.2. Test Procedure

1. The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. The path loss was compensated to the results for each measurement.
2. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth.
3. Set the number of counts to a value that stabilizes the measured CCDF curve.
4. Record the maximum PAPR level associated with a probability of 0.1 %.

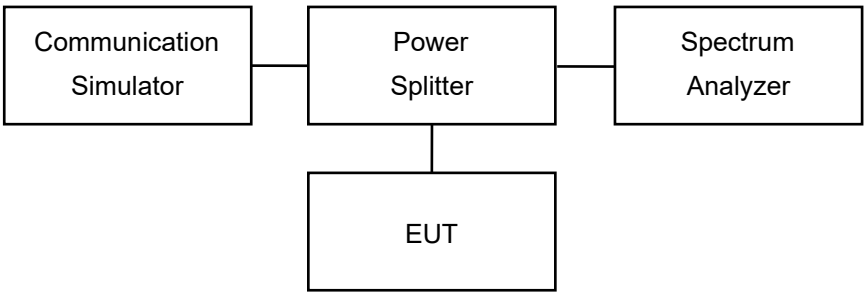
5.3. Test Result of Peak to Average Power Ratio

Refer as Appendix C

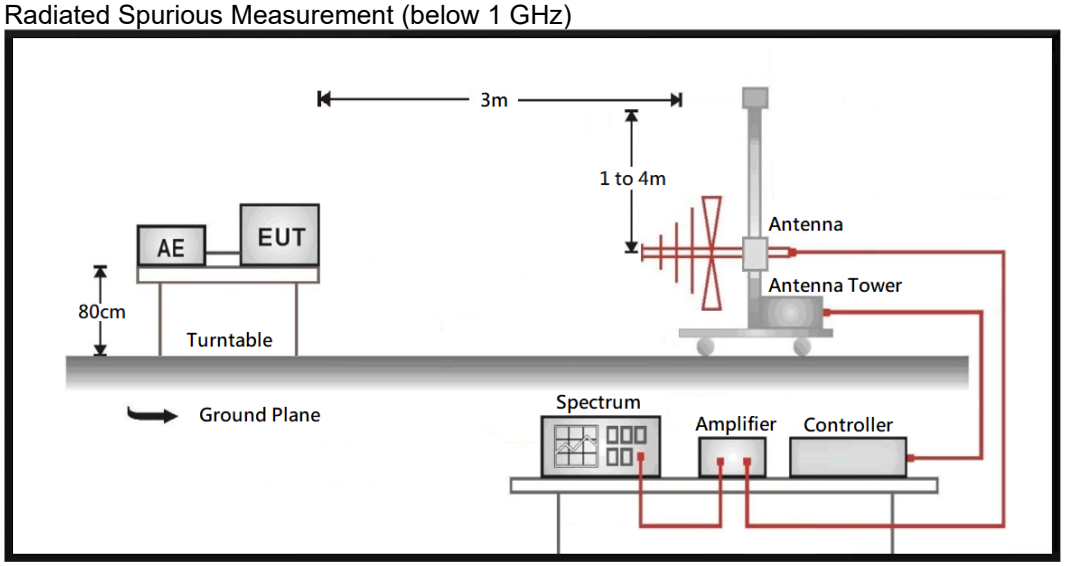
6. Spurious Emission

6.1. Test Setup

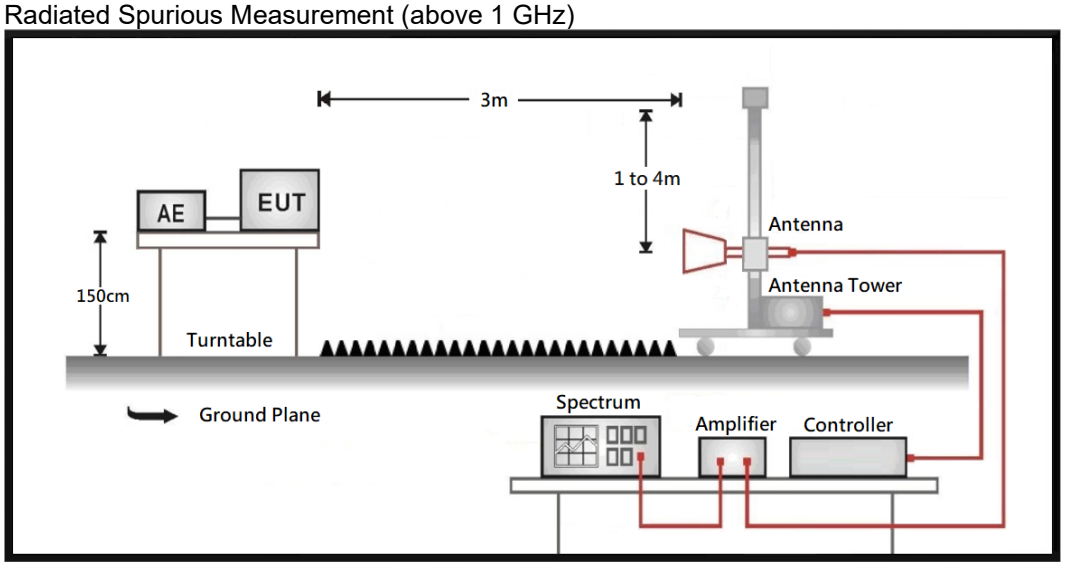
Conducted Spurious Measurement



Radiated Spurious Measurement (below 1 GHz)



Radiated Spurious Measurement (above 1 GHz)



6.2. Test Procedure

Conducted Spurious Measurement:

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. The path loss was compensated to the results for each measurement. The resolution bandwidth of the spectrum analyzer was set at 1 MHz, sufficient scans were taken to show the out of band Emission if any up to 10^{th} harmonic.

Radiated Spurious Measurement:

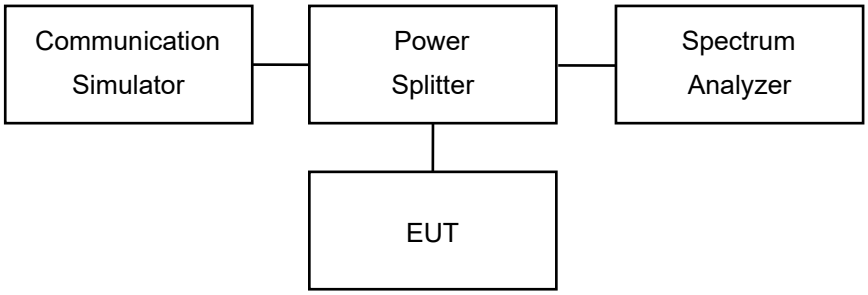
The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations. The resolution bandwidth of the spectrum analyzer was set at 1 MHz, sufficient scans were taken to show the out of band Emission if any up to 10th harmonic. Taking the record of maximum spurious emission.

6.3. Test Result of Spurious Emission

Refer as Appendix D

7. Conducted Band Edge

7.1. Test Setup



7.2. Test Procedure

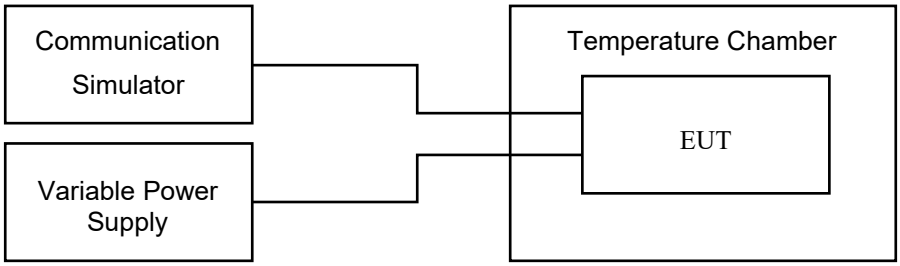
1. The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. The path loss was compensated to the results for each measurement.
2. In the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.

7.3. Test Result of Conducted Band Edge

Refer as Appendix E

8. Frequency Stability

8.1. Test Setup



8.2. Test Procedures

Frequency Stability under Temperature Variations:

The EUT under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a communication simulator. The EUT was placed inside the temperature chamber. Set the EUT 20℃ operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30℃. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10℃ increased per stage until the highest temperature of +50℃ reached.

Frequency Stability under Voltage Variations:

Set chamber temperature to 20℃. Use a variable AC or DC power supply to power the EUT and set the voltage to rated voltage. Reduce the input voltage to specify extreme voltage variation (±15%) and endpoint, record the maximum frequency change.

8.3. Test Result of Frequency Stability

Refer as Appendix F

Appendix A. Test Result of RF Output Power

Mode					Conducted Power		ERP Power		Limit
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	QPSK ERP(W)	16-QAM ERP(W)	Limit ERP(W)
1.4	70678	898.2	1	0	22.20	21.22	1.845	1.472	10
1.4	70678	898.2	6	0	21.08	20.30	1.426	1.191	10
1.4	70686	899	1	0	22.01	20.77	1.766	1.327	10
1.4	70686	899	6	0	21.03	20.04	1.409	1.122	10
1.4	70694	899.8	1	5	22.01	21.08	1.766	1.426	10
1.4	70694	899.8	6	0	21.03	20.02	1.409	1.117	10

Note:

1. ERP (W) = Conducted Output Power (dBm) + Antenna Gain (dBi)

2. ERP (W) = $(10^{(Power(dBm)/10)})*10^{-3}$

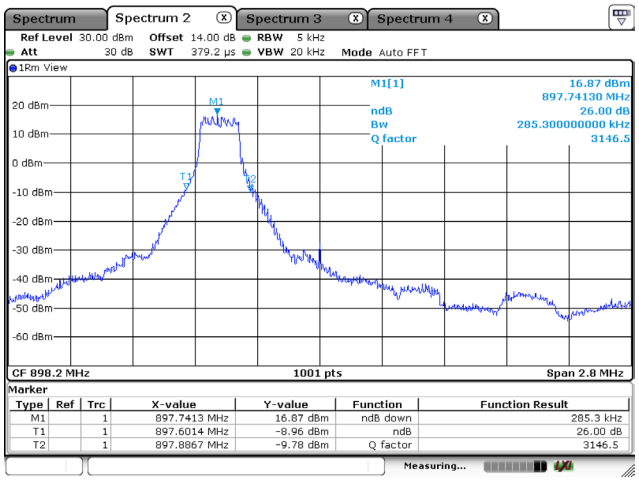
Appendix B. Test Result of Occupied Bandwidth

1RB

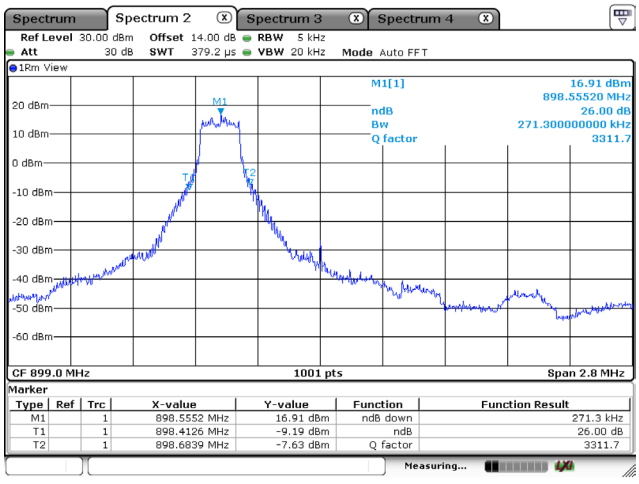
Bandwidth (MHz)	Modulation	Frequency (MHz)	Measure Level (kHz)		Limit (MHz)
			26dB BW	99% BW	
1.4M	QPSK	898.2	285.300	201.398	N/A
		899.0	271.300	201.398	N/A
		899.8	285.300	201.398	N/A
	16QAM	898.2	302.100	206.993	N/A
		899.0	285.300	204.195	N/A
		899.8	274.100	204.195	N/A

For 26dB BW

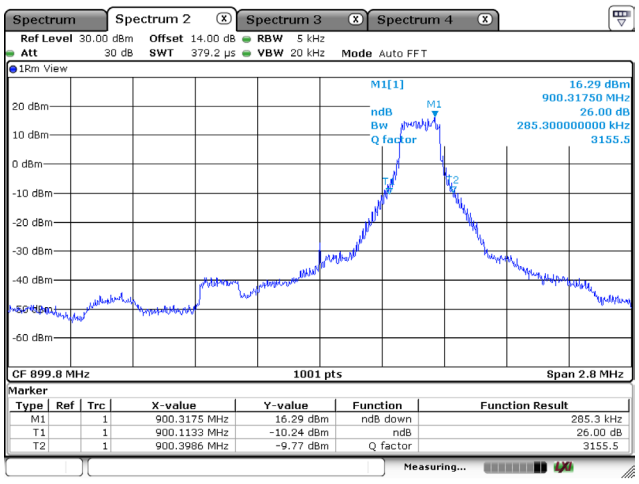
LTE Band 106 / QPSK / 1.4MHz / 898.2 MHz



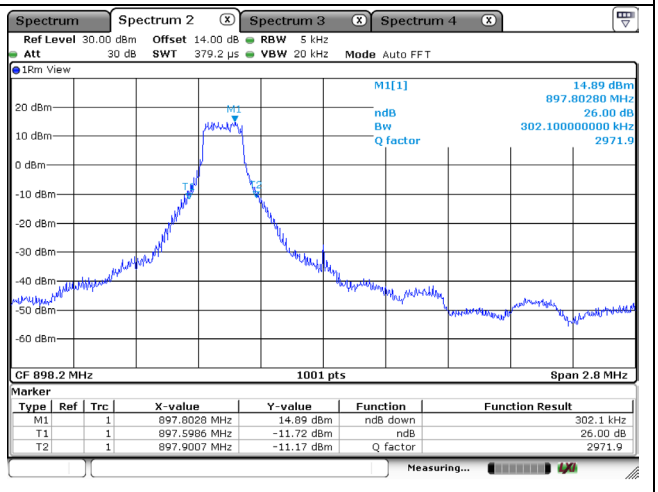
LTE Band 106 / QPSK / 1.4MHz / 899.0MHz



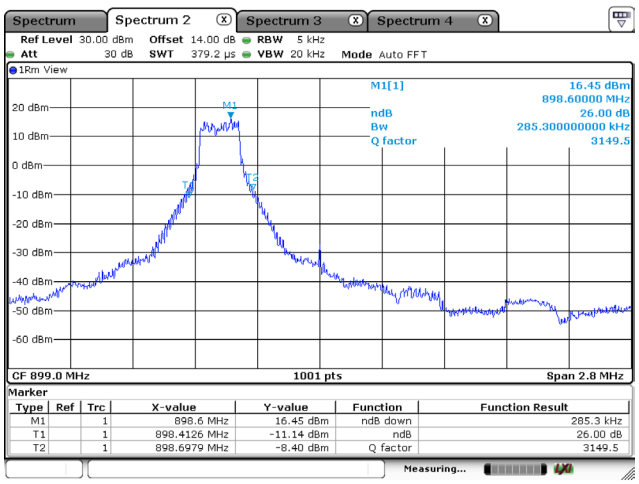
LTE Band 106 / QPSK / 1.4MHz / 899.8 MHz



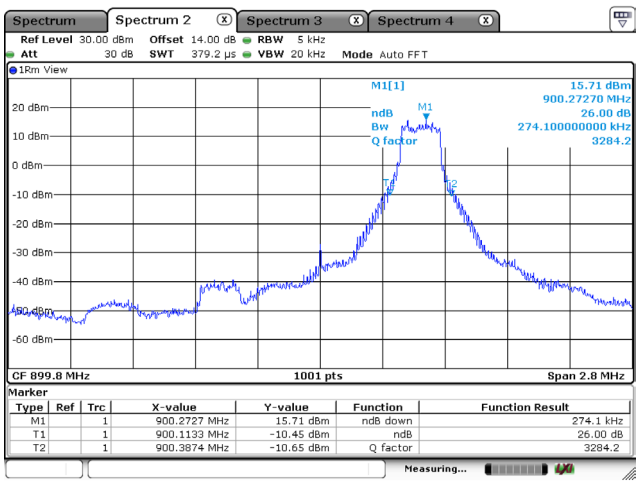
LTE Band 106 / 16QAM / 1.4MHz / 898.2 MHz



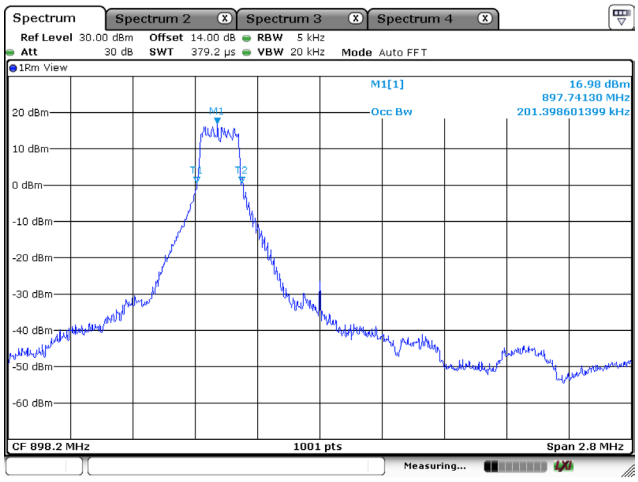
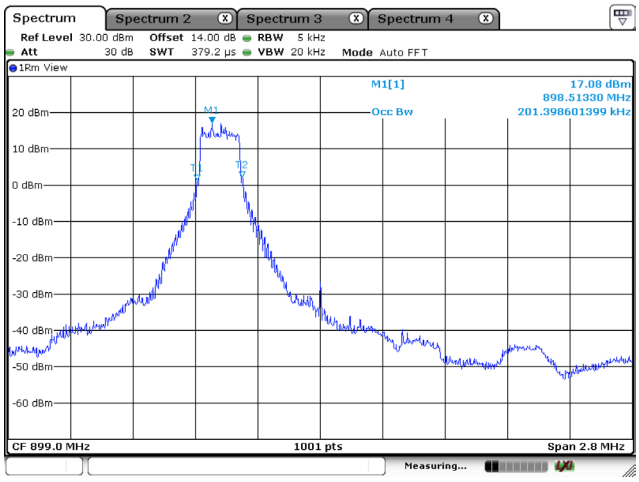
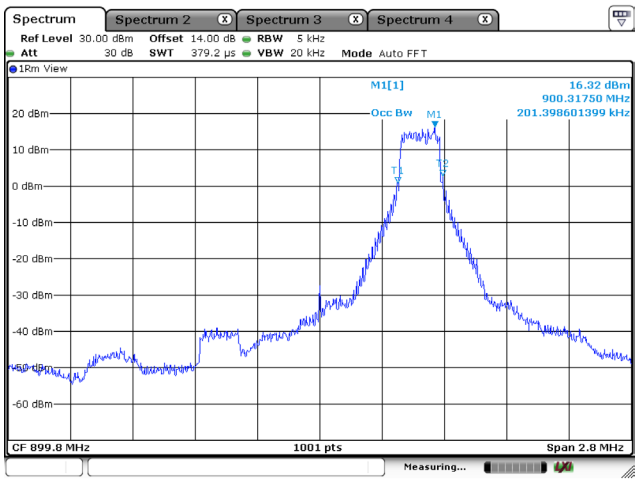
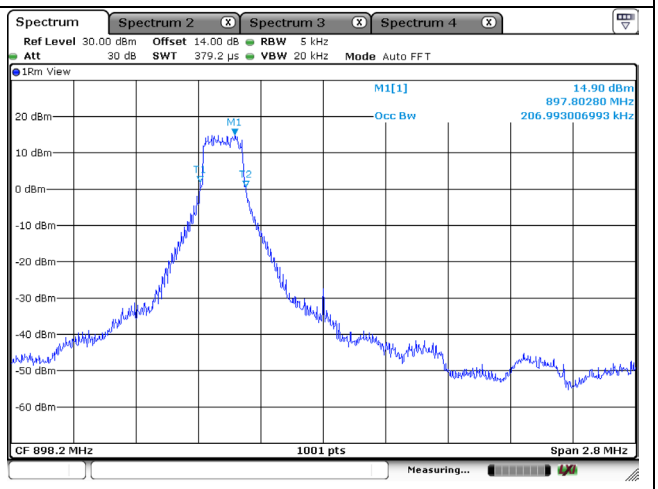
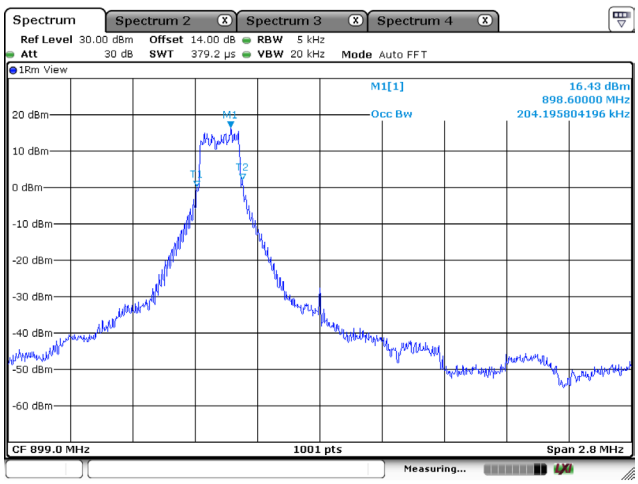
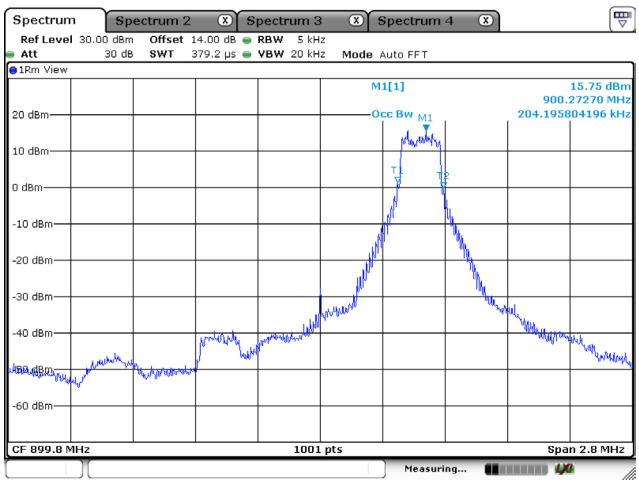
LTE Band 106 / 16QAM / 1.4MHz / 899.0 MHz



LTE Band 106 / 16QAM / 1.4MHz / 899.8 MHz



For 99% BW

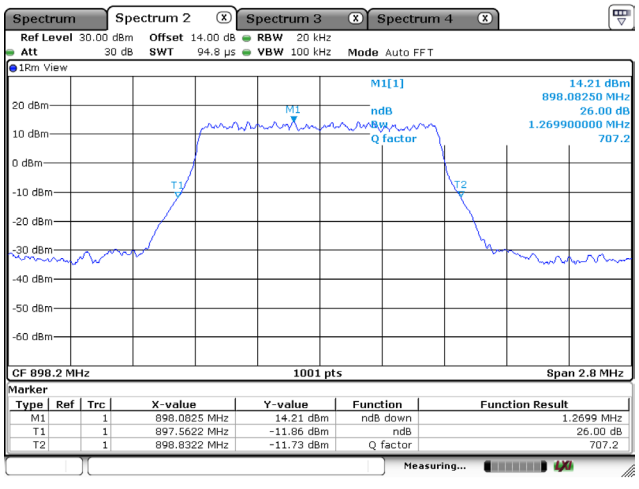
LTE Band 106 / QPSK / 1.4MHz / 898.2 MHz	LTE Band 106 / QPSK / 1.4MHz / 899.0MHz
	
LTE Band 106 / QPSK / 1.4MHz / 899.8 MHz	LTE Band 106 / 16QAM / 1.4MHz / 898.2 MHz
	
LTE Band 106 / 16QAM / 1.4MHz / 899.0 MHz	LTE Band 106 / 16QAM / 1.4MHz / 899.8 MHz
	

FRB

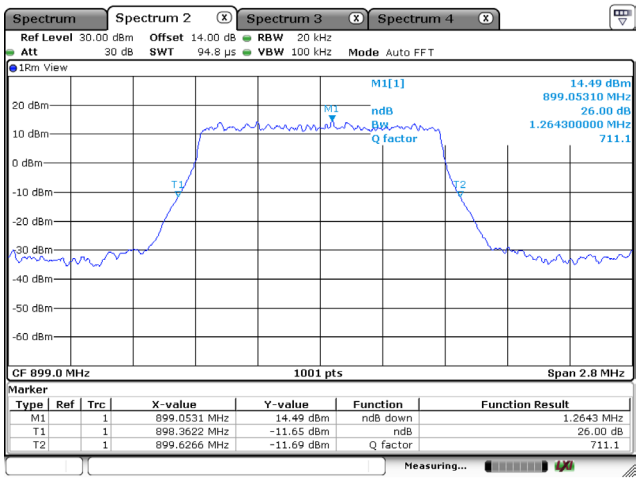
Bandwidth (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
1.4M	QPSK	898.2	1.269	1.079	N/A
		899.0	1.264	1.082	N/A
		899.8	1.253	1.079	N/A
	16QAM	898.2	1.255	1.082	N/A
		899.0	1.278	1.082	N/A
		899.8	1.275	1.082	N/A

For 26dB BW

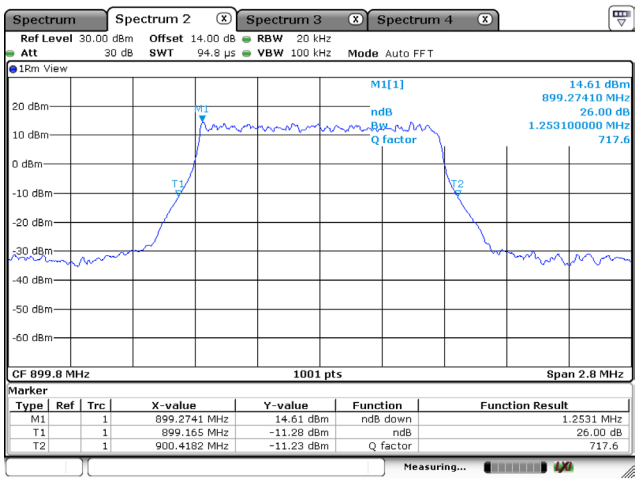
LTE Band 106 / QPSK / 1.4MHz / 898.2 MHz



LTE Band 106 / QPSK / 1.4MHz / 899.0MHz

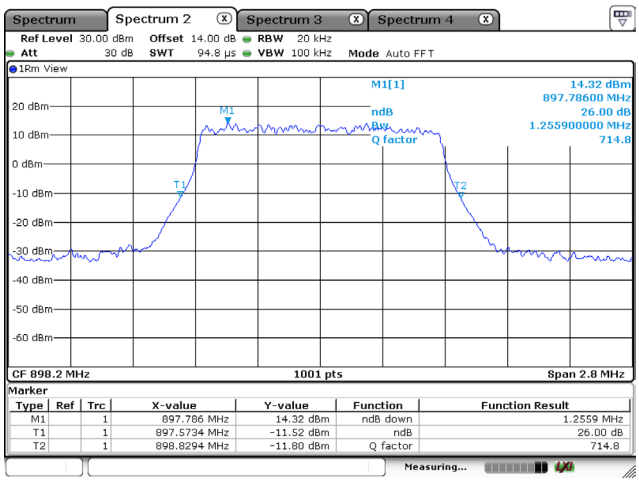


LTE Band 106 / QPSK / 1.4MHz / 899.8 MHz

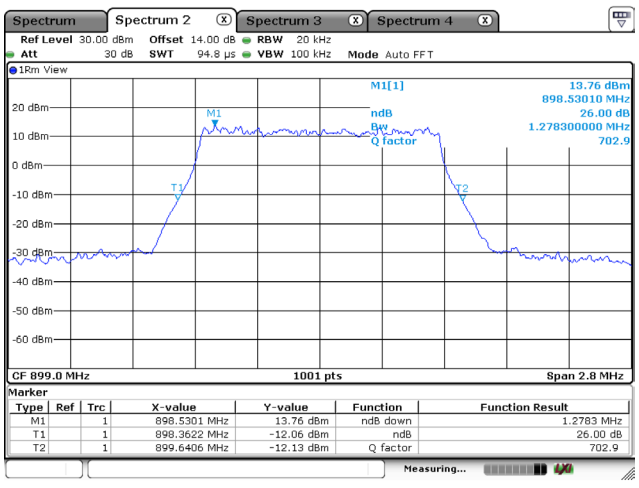


LTE Band 106 / 16QAM / 1.4MHz / 898.2 MHz

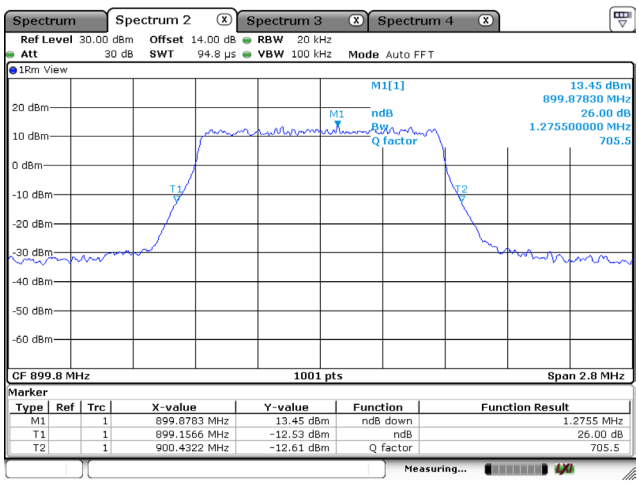
-



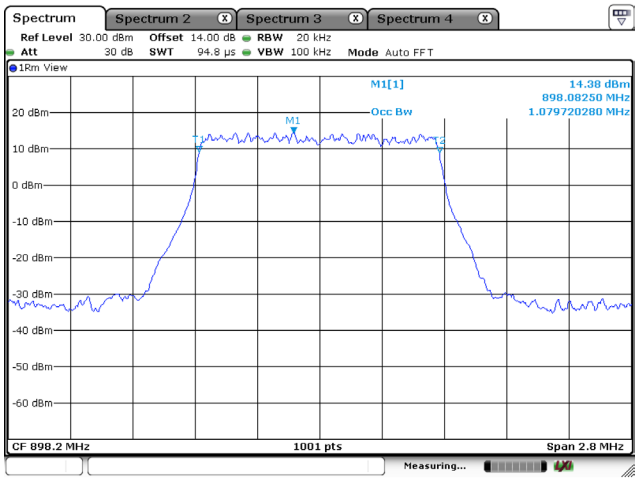
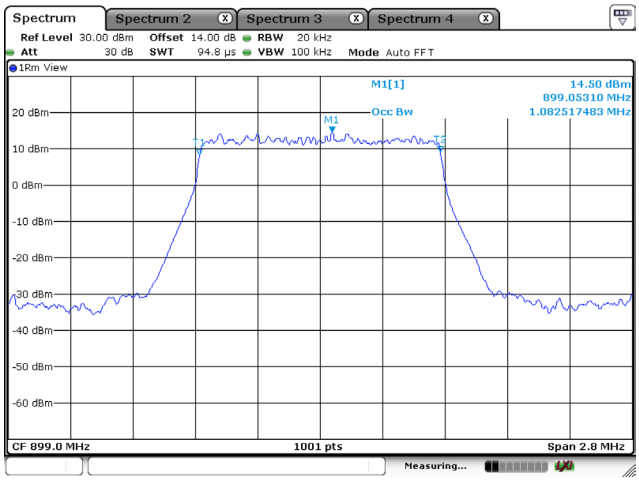
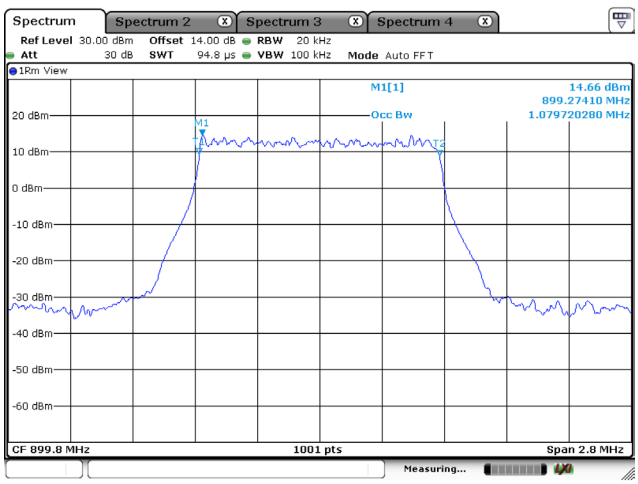
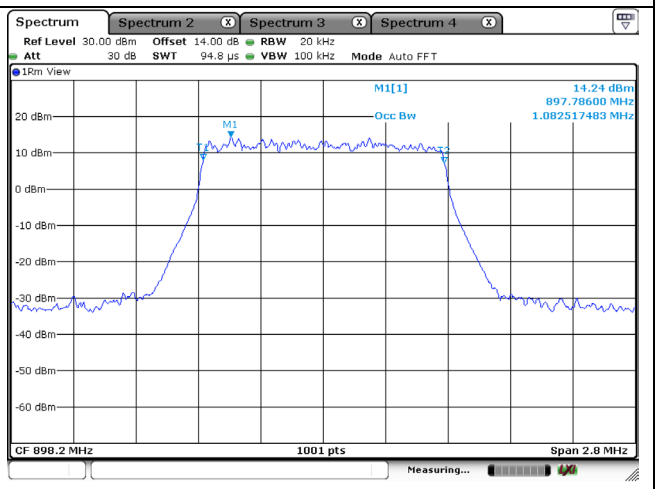
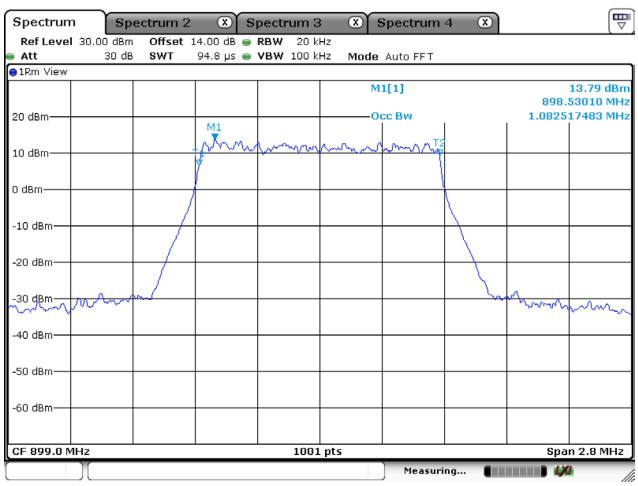
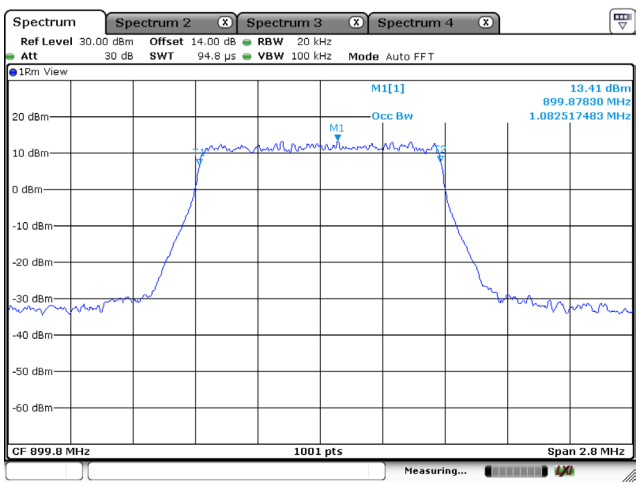
LTE Band 106 / 16QAM / 1.4MHz / 899.0 MHz



LTE Band 106 / 16QAM / 1.4MHz / 899.8 MHz

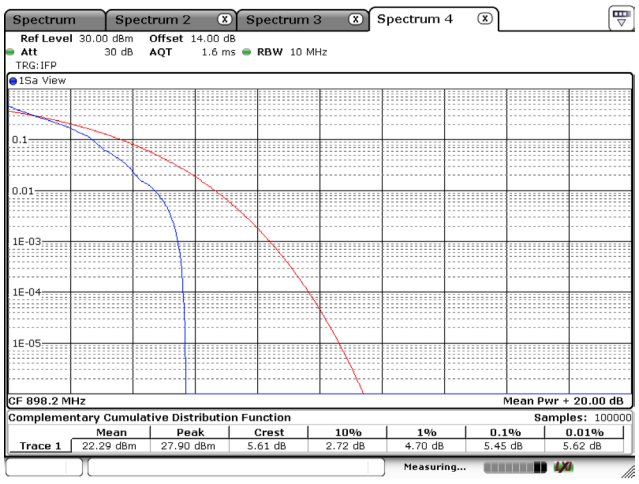


For 99% BW

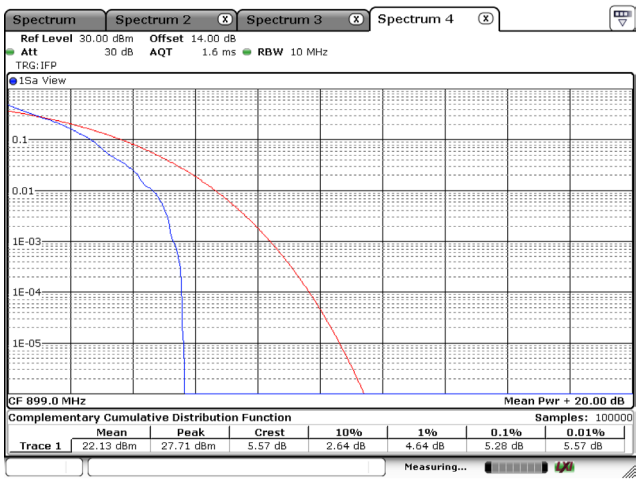
LTE Band 106 / QPSK / 1.4MHz / 898.2 MHz	LTE Band 106 / QPSK / 1.4MHz / 899.0MHz
	
LTE Band 106 / QPSK / 1.4MHz / 899.8 MHz	**LTE Band 106 / 16QAM / 1.4MHz / 898.2 MHz**
	
LTE Band 106 / 16QAM / 1.4MHz / 899.0 MHz	**LTE Band 106 / 16QAM / 1.4MHz / 899.8 MHz**
	

Appendix C. Test Result of Peak to Average Power Ratio

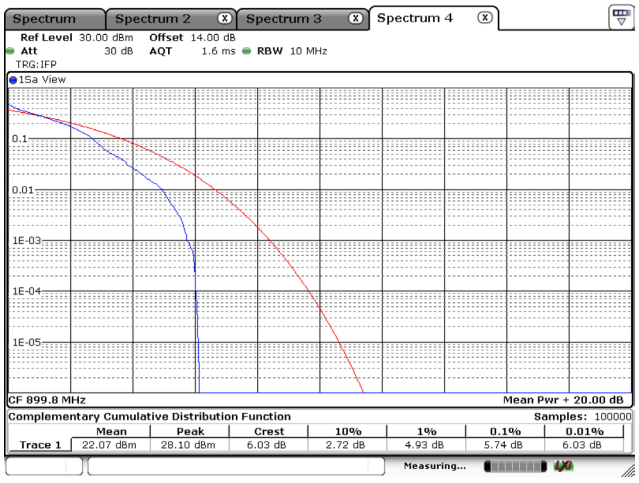
LTE Band 106_QPSK_1.4MHz_898.2 MHz



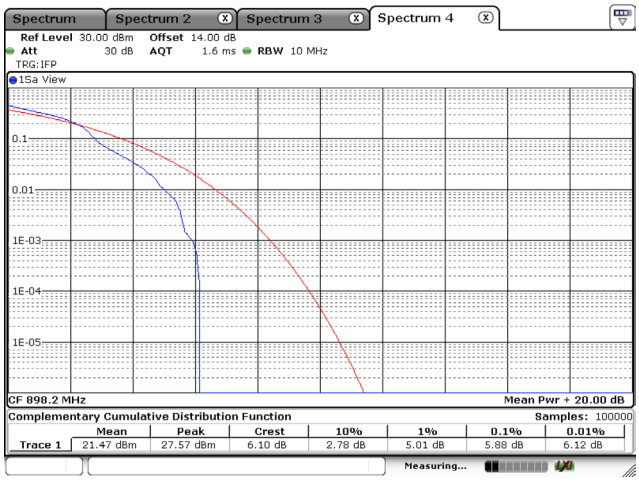
LTE Band 106_QPSK_1.4MHz_899.0 MHz



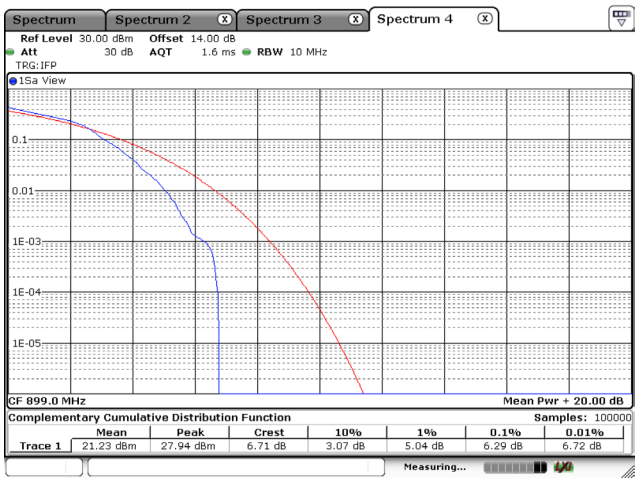
LTE Band 106_QPSK_1.4MHz_899.8 MHz



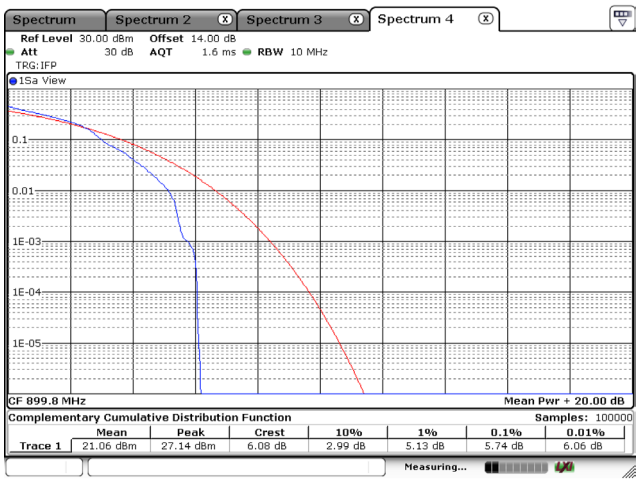
LTE Band 106_QPSK_1.4MHz_898.2 MHz



LTE Band 106_QPSK_1.4MHz_899.0 MHz

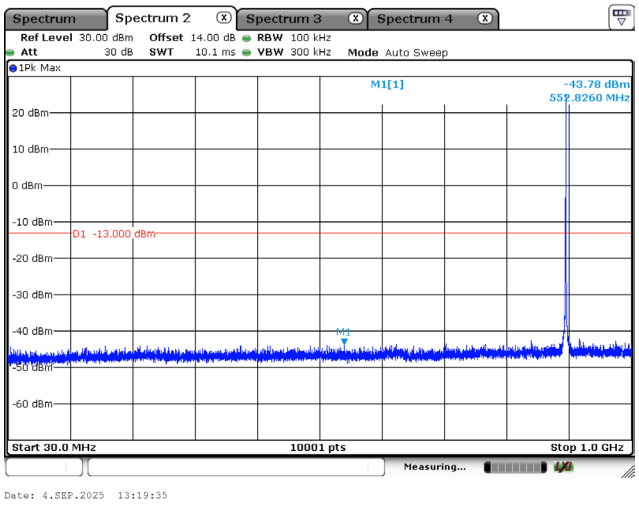


LTE Band 106_QPSK_1.4MHz_899.8 MHz

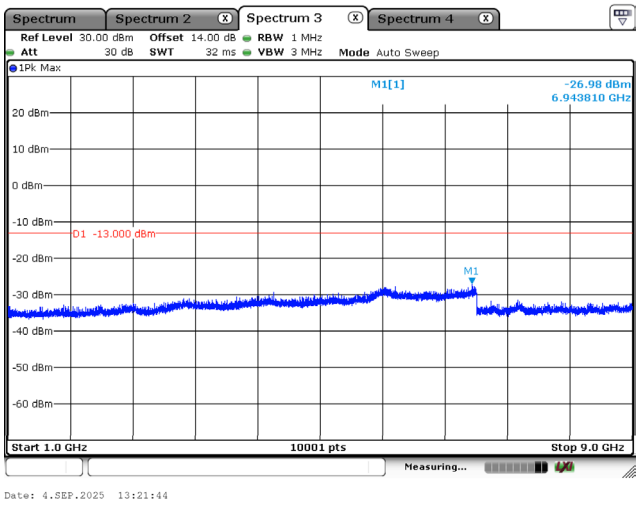


Appendix D.1 Test Result of Conducted Spurious Emission

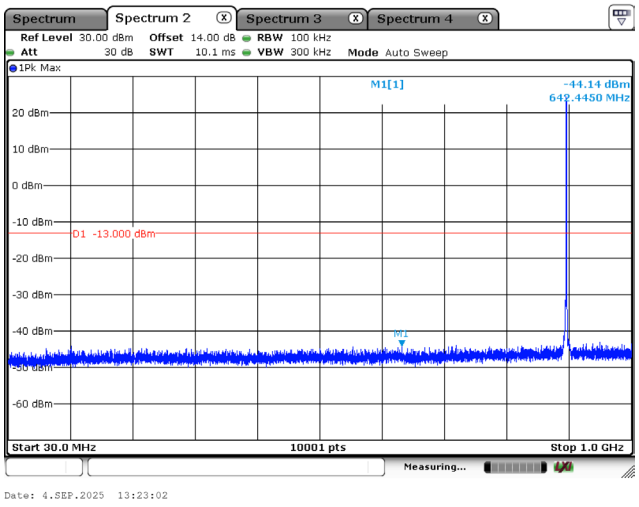
LTE Band 106_1.4M_QPSK_898.2 MHz_Below 1GHz



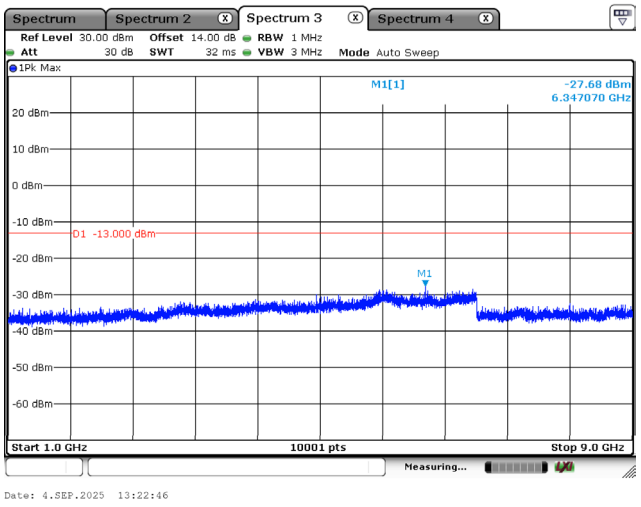
LTE Band 106_1.4M_QPSK_898.2 MHz_Above 1GHz



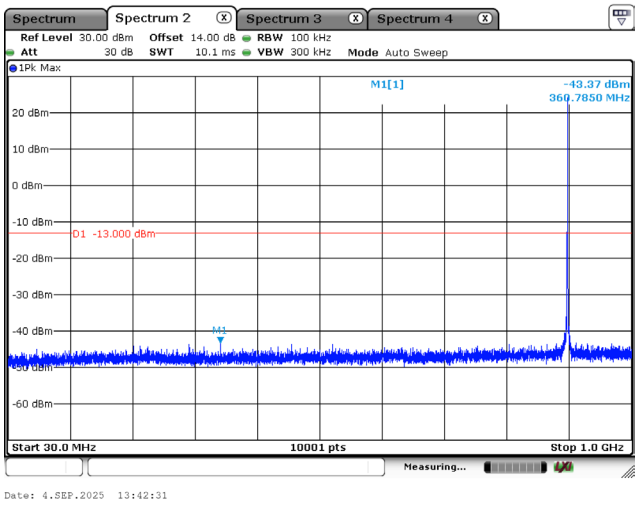
LTE Band 106_1.4M_QPSK_899.0 MHz_Below 1GHz



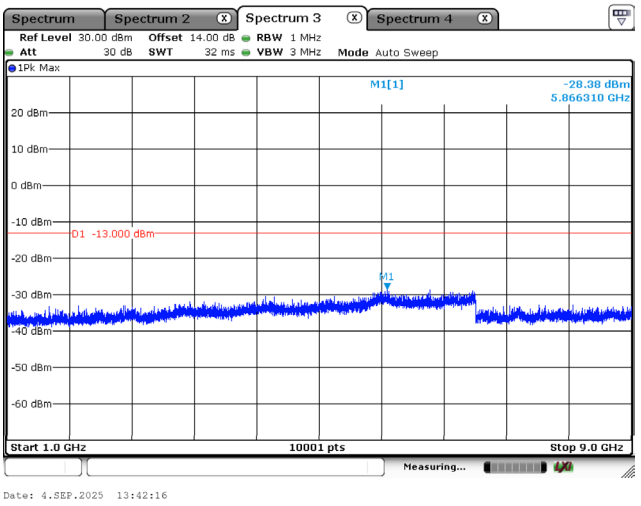
LTE Band 106_1.4M_QPSK_899.0 MHz_Above 1GHz



LTE Band 106_1.4M_QPSK_899.8 MHz_Below 1GHz



LTE Band 106_1.4M_QPSK_899.8 MHz_Above 1GHz

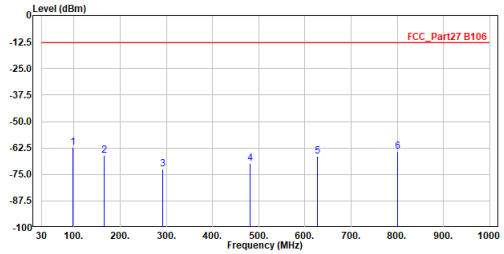


Appendix D.2 Test Result of Radiated Spurious Emission

30 MHz ~ 1GHz

Test Mode: Mode 1

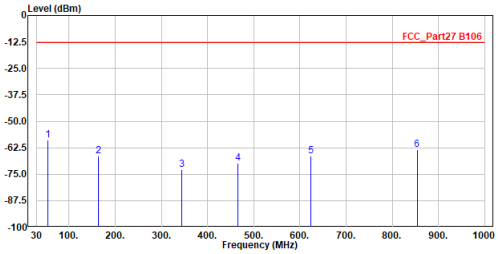
Site :HC-CB02
Condition :3m Horizontal
Mode :LTE_B106_898.2MHz_LF
Test By :Brook Cheng



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	96.833	-62.32	-13.00	-49.32	-68.35	6.03	Peak
2	165.218	-65.89	-13.00	-52.89	-76.32	10.43	Peak
3	291.318	-72.44	-13.00	-59.44	-83.09	10.65	Peak
4	481.826	-69.94	-13.00	-56.94	-84.92	14.98	Peak
5	627.229	-66.24	-13.00	-53.24	-84.13	17.89	Peak
6	801.053	-64.24	-13.00	-51.24	-84.70	20.46	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :LTE_B106_898.2MHz_LF
Test By :Brook Cheng

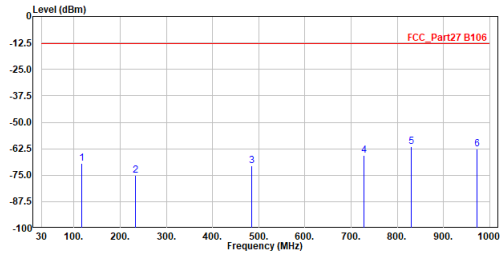


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	54.153	-59.03	-13.00	-46.03	-70.82	11.79	Peak
2	163.666	-66.30	-13.00	-53.30	-76.86	10.56	Peak
3	343.892	-72.66	-13.00	-59.66	-84.43	11.77	Peak
4	465.627	-69.63	-13.00	-56.63	-84.55	14.92	Peak
5	624.319	-66.49	-13.00	-53.49	-84.36	17.87	Peak
6	853.627	-63.44	-13.00	-50.44	-84.48	21.04	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Test Mode: Mode 2

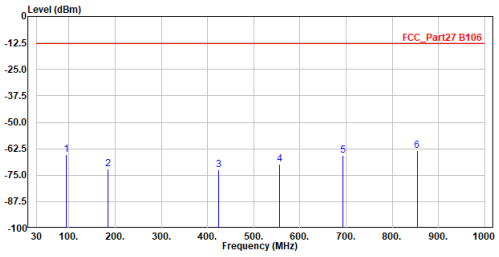
Site :HC-CB02
Condition :3m Horizontal
Mode :LTE_B106_LF
Test By :Brook Cheng



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	115.845	-69.50	-13.00	-56.50	-77.53	8.03	Peak
2	233.409	-74.93	-13.00	-61.93	-83.30	8.37	Peak
3	484.057	-70.45	-13.00	-57.45	-85.47	15.02	Peak
4	728.303	-65.69	-13.00	-52.69	-85.20	19.51	Peak
5	829.862	-61.34	-13.00	-48.34	-81.94	20.60	Peak
6	972.937	-62.81	-13.00	-49.81	-85.06	22.25	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :LTE_B106_LF
Test By :Brook Cheng

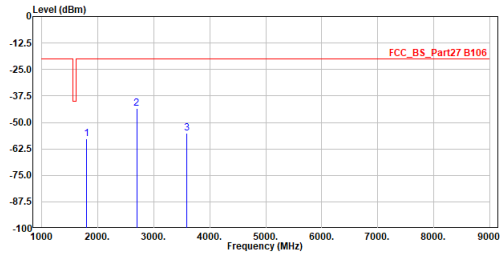


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	94.117	-65.29	-13.00	-52.29	-70.87	5.58	Peak
2	184.327	-71.93	-13.00	-58.93	-80.50	8.57	Peak
3	424.014	-72.62	-13.00	-59.62	-86.27	13.65	Peak
4	556.225	-69.95	-13.00	-56.95	-86.18	16.23	Peak
5	693.577	-65.72	-13.00	-52.72	-84.57	18.85	Peak
6	853.627	-63.44	-13.00	-50.44	-84.48	21.04	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Above 1 GHz

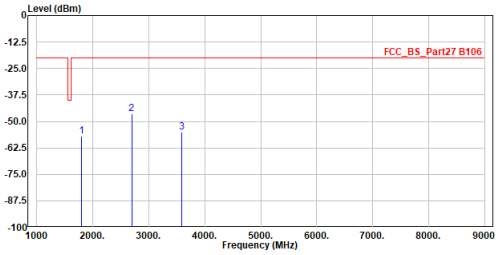
Site :HC-CB02
Condition :3m Horizontal
Mode :LTE_B106_898.2MHz
Test By :Brook Cheng



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1796.400	-57.70	-20.00	-37.70	-43.57	-14.13	Peak
2	2694.600	-43.51	-20.00	-23.51	-32.16	-11.35	Peak
3	3592.800	-55.04	-20.00	-35.04	-47.20	-7.84	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

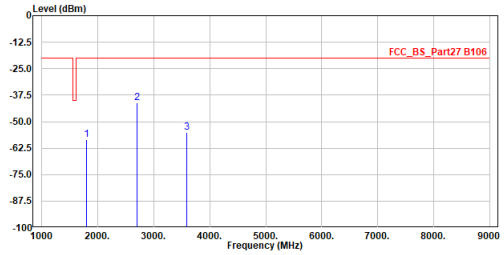
Site :HC-CB02
Condition :3m Vertical
Mode :LTE_B106_898.2MHz
Test By :Brook Cheng



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1796.400	-56.96	-20.00	-36.96	-42.83	-14.13	Peak
2	2694.600	-46.55	-20.00	-26.55	-35.20	-11.35	Peak
3	3592.800	-55.01	-20.00	-35.01	-47.17	-7.84	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

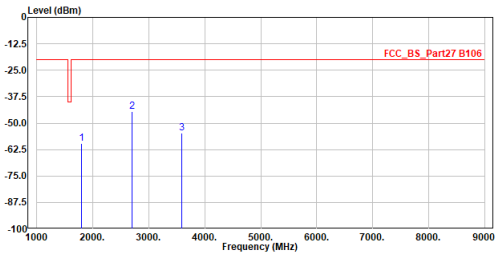
Site :HC-CB02
Condition :3m Horizontal
Mode :LTE_B106_899MHz
Test By :Brook Cheng



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1798.000	-58.62	-20.00	-38.62	-44.49	-14.13	Peak
2	2697.000	-41.06	-20.00	-21.06	-29.72	-11.34	Peak
3	3596.000	-55.10	-20.00	-35.10	-47.27	-7.83	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

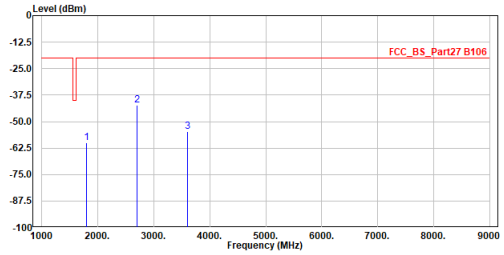
Site :HC-CB02
Condition :3m Vertical
Mode :LTE_B106_899MHz
Test By :Brook Cheng



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1798.000	-59.57	-20.00	-39.57	-45.44	-14.13	Peak
2	2697.000	-44.44	-20.00	-24.44	-33.10	-11.34	Peak
3	3596.000	-54.86	-20.00	-34.86	-47.03	-7.83	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) – 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

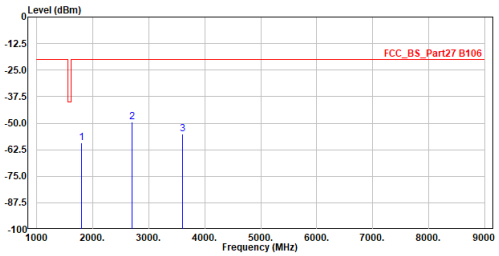
Site :HC-CB02
Condition :3m Horizontal
Mode :LTE_B106_899.8MHz
Test By :Brook Cheng



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1799.600	-59.92	-20.00	-39.92	-45.80	-14.12	Peak
2	2699.400	-42.27	-20.00	-22.27	-30.94	-11.33	Peak
3	3599.200	-54.69	-20.00	-34.69	-46.88	-7.81	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) - 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :LTE_B106_899.8MHz
Test By :Brook Cheng

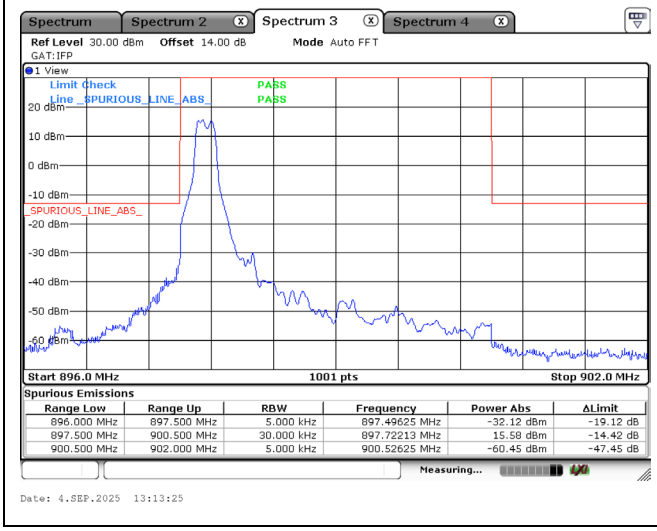
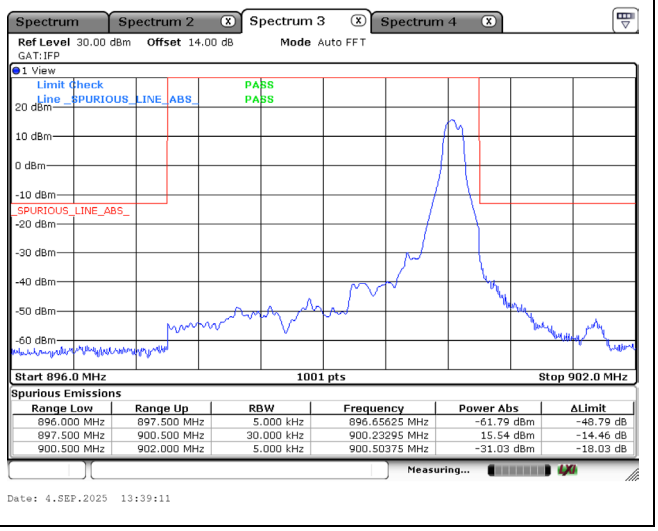


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1799.600	-59.08	-20.00	-39.08	-44.96	-14.12	Peak
2	2699.400	-49.46	-20.00	-29.46	-38.13	-11.33	Peak
3	3599.200	-55.05	-20.00	-35.05	-47.24	-7.81	Peak

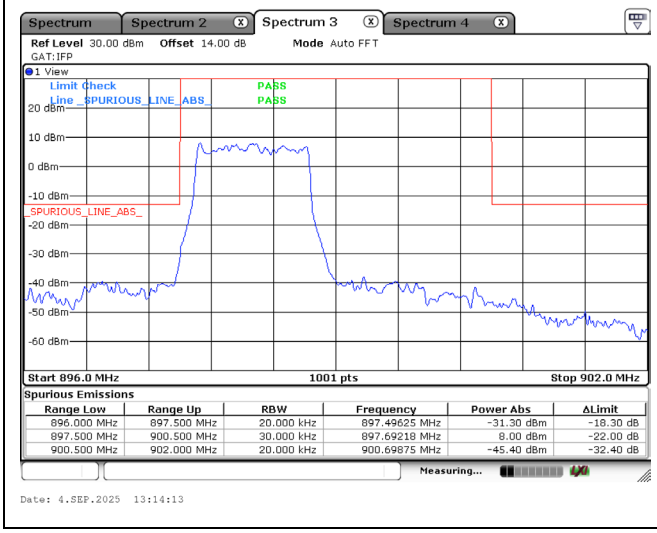
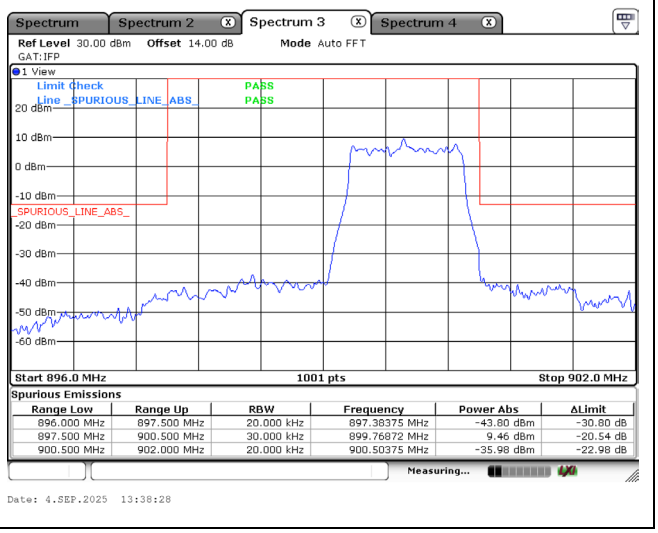
Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) - 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Appendix E. Test Result of Conducted Band Edge

1RB

LTE Band 106_898.2 MHz_1.4M_QPSK	LTE Band 106_899.8 MHz_1.4M_QPSK
	

FRB

LTE Band 106_898.2 MHz_1.4M_16QAM	LTE Band 106_899.8 MHz_1.4M_16QAM
	

Appendix F. Test Result of Frequency Stability

LTE Band 106 / 1.4 MHz / 898.2 MHz

Voltage (VAC)	Frequency Stability (Hz)	Frequency Stability (ppm)
138.00	-3.72	-0.0041
120.00	-2.60	-0.0029
102.00	-3.10	-0.0035

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	-3.30	-0.0037
-30	-3.32	-0.0037
-20	-2.80	-0.0031
-10	-3.19	-0.0036
0	-2.75	-0.0031
10	-2.88	-0.0032
20	-3.29	-0.0037
30	-4.08	-0.0045
40	-2.65	-0.0030
50	-2.65	-0.0030
60	-3.68	-0.0041
65	-2.69	-0.0030

LTE Band 106 / 1.4 MHz / 899.0 MHz

Voltage (VAC)	Frequency Stability (Hz)	Frequency Stability (ppm)
138.00	-4.09	-0.0045
120.00	-2.70	-0.0030
102.00	-4.37	-0.0049

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	-3.14	-0.0035
-30	-2.54	-0.0028
-20	-2.09	-0.0023
-10	-3.50	-0.0039
0	-3.31	-0.0037
10	-2.99	-0.0033
20	-2.45	-0.0027
30	-3.66	-0.0041
40	-3.33	-0.0037
50	-3.59	-0.0040
60	-3.20	-0.0036
65	-2.89	-0.0032

LTE Band 106 / 1.4 MHz / 899.8 MHz

Voltage (VAC)	Frequency Stability (Hz)	Frequency Stability (ppm)
138.00	-5.88	-0.0065
120.00	-5.10	-0.0057
102.00	-6.05	-0.0067

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	-5.51	-0.0061
-30	-5.75	-0.0064
-20	-6.15	-0.0068
-10	-4.83	-0.0054
0	-5.00	-0.0056
10	-5.98	-0.0066
20	-5.12	-0.0057
30	-6.26	-0.0070
40	-5.90	-0.0066
50	-6.36	-0.0071
60	-4.97	-0.0055
65	-6.02	-0.0067