



# FCC Radio Test Report

## FCC ID: ZMOLE270LA

This report concerns: Class II permissive Change

**Project No.** : 2407C095A  
**Equipment** : LTE Module  
**Brand Name** : Fibocom  
**Test Model** : LE270-LA  
**Series Model** : N/A  
**Applicant** : Fibocom Wireless Inc.  
**Address** : 1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China  
**Manufacturer** : Fibocom Wireless Inc.  
**Address** : 1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China  
**Factory** : Fibocom Wireless Inc.  
**Address** : 1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China  
**Date of Receipt** : Aug. 07, 2024  
Mar. 24, 2025  
**Date of Test** : Aug. 09, 2024 ~ Aug. 29, 2024  
Mar. 25, 2025 ~ Apr. 08, 2025  
**Issued Date** : Apr. 17, 2025  
**Report Version** : R00  
**Test Sample** : Engineering Sample No.: SSL2024080742 for conducted, DG2025032449 for radiated.  
**Standard(s)** : 47 CFR FCC Part 24 Subpart E  
47 CFR FCC Part 2

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

Prepared by : Treey Chen  
Treey Chen

Approved by : Steven Lu  
Steven Lu

Room 108-116, 309-310, Building 2, No.1, Yile Road, Songshan Lake Zone, Dongguan City, Guangdong, People's Republic of China.

Tel: +86-769-8318-3000 Web: [www.newbtl.com](http://www.newbtl.com) Service mail: [btl\\_qa@newbtl.com](mailto:btl_qa@newbtl.com)

**Declaration**

**BTL** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

**BTL's** reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. BTL assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by BTL.

The report must not be used by the client to claim product certification, approval, or endorsement by A2LA or any agency of the U.S. Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

**BTL's** laboratory quality assurance procedures are in compliance with the ISO/IEC 17025: 2017 requirements, and accredited by the conformity assessment authorities listed in this test report.

**BTL** is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

**Limitation**

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

<b>Table of Contents</b>	<b>Page</b>
<b>REPORT ISSUED HISTORY</b>	<b>5</b>
<b>1 . APPLICABLE STANDARDS</b>	<b>6</b>
<b>2 . SUMMARY OF TEST RESULTS</b>	<b>6</b>
2.1 TEST FACILITY	7
2.2 MEASUREMENT UNCERTAINTY	7
2.3 TEST ENVIRONMENT CONDITIONS	8
<b>3 . GENERAL INFORMATION</b>	<b>9</b>
3.1 GENERAL DESCRIPTION OF EUT	9
3.2 DESCRIPTION OF TEST MODES	11
3.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	12
3.4 DESCRIPTION OF SUPPORT UNITS	12
<b>4 . TEST RESULT</b>	<b>13</b>
4.1 OUTPUT POWER MEASUREMENT	13
4.1.1 LIMIT	13
4.1.2 TEST PROCEDURE	13
4.1.3 TEST SETUP LAYOUT	13
4.1.4 TEST DEVIATION	13
4.1.5 TEST RESULTS	13
4.2 OCCUPIED BANDWIDTH MEASUREMENT	14
4.2.1 TEST PROCEDURE	14
4.2.2 TEST SETUP LAYOUT	14
4.2.3 TEST DEVIATION	14
4.2.4 TEST RESULTS	14
4.3 CONDUCTED SPURIOUS EMISSIONS MEASUREMENT	15
4.3.1 LIMIT	15
4.3.2 TEST PROCEDURES	15
4.3.3 TEST SETUP LAYOUT	15
4.3.4 TEST DEVIATION	15
4.3.5 TEST RESULTS	15
4.4 RADIATED SPURIOUS EMISSIONS MEASUREMENT	16
4.4.1 LIMIT	16
4.4.2 TEST PROCEDURES	16
4.4.3 TEST SETUP LAYOUT	16
4.4.4 TEST DEVIATION	18
4.4.5 TEST RESULTS (9KHZ TO 30MHZ)	18
4.4.6 TEST RESULTS (30MHZ TO 1000MHZ)	18
4.4.7 TEST RESULTS (ABOVE 1000MHZ)	18
4.5 BAND EDGE MEASUREMENT	19

<b>Table of Contents</b>	<b>Page</b>
4.5.1 LIMIT	19
4.5.2 TEST PROCEDURES	19
4.5.3 TEST SETUP LAYOUT	19
4.5.4 TEST DEVIATION	19
4.5.5 TEST RESULTS	19
4.6 PEAK TO AVERAGE RATIO MEASUREMENT	20
4.6.1 LIMIT	20
4.6.2 TEST PROCEDURES	20
4.6.3 TEST SETUP LAYOUT	20
4.6.4 TEST DEVIATION	20
4.6.5 TEST RESULTS	20
4.7 FREQUENCY STABILITY MEASUREMENT	21
4.7.1 LIMIT	21
4.7.2 TEST PROCEDURES	21
4.7.3 TEST SETUP LAYOUT	21
4.7.4 TEST DEVIATION	21
4.7.5 TEST RESULTS	21
4. LIST OF MEASUREMENT EQUIPMENTS	22
5. EUT TEST PHOTO	25
APPENDIX A - OUTPUT POWER	29
APPENDIX B - OCCUPIED BANDWIDTH	36
APPENDIX C - CONDUCTED SPURIOUS EMISSIONS	43
APPENDIX D - RADIATED SPURIOUS EMISSIONS (9KHZ TO 30MHZ)	45
APPENDIX E - RADIATED SPURIOUS EMISSIONS (30MHZ TO 1000MHZ)	47
APPENDIX F - RADIATED SPURIOUS EMISSIONS (ABOVE 1000MHZ)	50
APPENDIX G - BAND EDGE	53
APPENDIX H - PEAK TO AVERAGE RATIO	60
APPENDIX I - FREQUENCY STABILITY	67

### REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-1-2407C095A	R00	<p>This is a supplementary report to the original test report (BTL-FCCP-2-2407C095).</p> <ol style="list-style-type: none"> <li>Added a new power IC and the location of the capacitor and resistor has changed. The other hardware is completely identical.( There is no change in the RF part.)</li> <li>Changed the software version.</li> <li>Added the seven antennas (Ant.2~8).</li> <li>Changed the EIRP to Max. conducted power in section 3.1.</li> </ol> <p>Based on above changes described, so used the antennas with the highest gain in each frequency band to test radiated spurious emissions and recorded in this report. The conducted power was unchanged, EIRP with worst new antenna was updated. The radiated spurious emissions and EIRP test results of original antenna please refer to original report.</p>	Apr. 17, 2025	Valid

## 1. APPLICABLE STANDARDS

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

ANSI C63.26-2015

The following reference test guidance is not within the scope of accreditation of A2LA:

FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part 24 Subpart E & Part 2			
Standard(s) Section	Test Item	Judgment	Remark
2.1046 24.232(c)	Equivalent Isotropic Radiated Power	PASS	-----
2.1049	Occupied Bandwidth	PASS	-----
2.1051 24.238(a)	Conducted Spurious Emissions	PASS	-----
2.1053 24.238(a)	Radiated Spurious Emissions	PASS	-----
24.238(a)	Band Edge Measurements	PASS	-----
24.232(d)	Peak To Average Ratio	PASS	-----
2.1055 24.235	Frequency Stability	PASS	-----

Note:

(1) "N/A" denotes test is not applicable in this test report.

## 2.1 TEST FACILITY

For Radiated items:

The test facilities used to collect the test data in this report is at the location of 1-2/F, 4/F, Building A, 1-2/F, Building B, 3/F, Building C, No.3, Jinshagang 1st Road, Dalang Town, Dongguan City, Guangdong People's Republic of China.

For other items:

The test facilities used to collect the test data in this report is at the location of Room 108-116, 309-310, Building 2, No.1, Yile Road, Songshan Lake Zone, Dongguan City, Guangdong, People's Republic of China.

BTL's Registration Number for FCC: 747969

BTL's Designation Number for FCC: CN1377

## 2.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated 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))

The BTL measurement uncertainty as below table:

### A. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	$U_i$ (dB)
DG-CB01	CISPR	9kHz ~ 30MHz	2.36

Test Site	Method	Measurement Frequency Range	Ant. H / V	$U_i$ (dB)
DG-CB03 (3m)	CISPR	30MHz ~ 200MHz	V	4.40
		30MHz ~ 200MHz	H	3.62
		200MHz ~ 1,000MHz	V	4.58
		200MHz ~ 1,000MHz	H	3.98

Test Site	Method	Measurement Frequency Range	$U_i$ (dB)
DG-CB03 (3m)	CISPR	1GHz ~ 6GHz	4.08
		6GHz ~ 18GHz	4.62

Test Site	Method	Measurement Frequency Range	$U_i$ (dB)
DG-CB03 (1m)	CISPR	18 ~ 26.5 GHz	3.36

### B. Other Measurement:

Parameter	Uncertainty
Spectrum Bandwidth	±1.74 %
Maximum Output Power	±0.87 dB
Frequency Stability	±53.10Hz
Temperature	±0.47 °C
Time	±1.37%

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

### 2.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By	Test Date
Output Power & EIRP	25.3°C	49%	DC 3.8V	Mark Wu	Aug. 12, 2024~ Aug. 20, 2024
Occupied Bandwidth	25.3°C	49%	DC 3.8V	Mark Wu	Aug. 12, 2024~ Aug. 20, 2024
Conducted Spurious Emissions	25.3°C	49%	DC 3.8V	Mark Wu	Aug. 12, 2024~ Aug. 20, 2024
Radiated Spurious Emissions (9 kHz to 30 MHz)	20°C	50%	DC 3.8V	Zonda Cheng	Apr. 02, 2025
Radiated Spurious Emissions (30 MHz to 1000 MHz)	23°C	42%	DC 3.8V	Calvin Wen	Apr. 04, 2025
Radiated Spurious Emissions (Above 1000 MHz)	23°C	42%	DC 3.8V	Calvin Wen	Apr. 04, 2025
Band Edge	25.3°C	49%	DC 3.8V	Mark Wu	Aug. 12, 2024~ Aug. 20, 2024
Peak to Average Ratio	25.3°C	49%	DC 3.8V	Mark Wu	Aug. 12, 2024~ Aug. 20, 2024
Frequency Stability	Normal & Extreme	49%	Normal & Extreme	Mark Wu	Aug. 12, 2024~ Aug. 20, 2024

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	LTE Module			
Brand Name	Fibocom			
Test Model	LE270-LA			
Series Model	N/A			
Model Difference(s)	N/A			
Hardware Version	V1.2			
Software Version	12007.7001.00.04.46.01			
Power Source	DC voltage supplied from external power supply.			
Power Rating	DC 3.4V - 4.5V, Typical: 3.8V			
IMEI No.	Conducted	868317070000764		
	Radiated	868317070010060		
Modulation Type	LTE	UL: QPSK, 16QAM DL: QPSK, 16QAM, 64QAM		
Max. conducted power	LTE	Channel Bandwidth (MHz)	QPSK (dBm)	16QAM (dBm)
	Band 2	1.4	23.92	23.27
		3	23.95	23.30
		5	24.43	23.85
		10	24.38	23.64
		15	24.16	23.80
		20	24.25	23.94





Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

#### 2. Channel List:

LTE Band 2(UL:1850-1910MHz, DL:1930-1990MHz)					
Test Frequency ID	Bandwidth (MHz)	N <sub>UL</sub>	Frequency of Uplink (MHz)	N <sub>DL</sub>	Frequency of Downlink (MHz)
Low Range	1.4	18607	1850.7	607	1930.7
	3	18615	1851.5	615	1931.5
	5	18625	1852.5	625	1932.5
	10	18650	1855	650	1935
	15	18675	1857.5	675	1937.5
	20	18700	1860	700	1940
Mid Range	1.4/3/5/10/15/20	18900	1880	900	1960
High Range	1.4	19193	1909.3	1193	1989.3
	3	19185	1908.5	1185	1988.5
	5	19175	1907.5	1175	1987.5
	10	19150	1905	1150	1985
	15	19125	1902.5	1125	1982.5
	20	19100	1900	1100	1980

## 3. Table for Filed Antenna:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)	Note
1		GHT-019A	Dipole	SMA Male J	2.85	LTE Band 2
2		F-0Y-31-0116-001-K0	FPC	IPEX	3.13	LTE Band 2
3		F-0Y-31-0116-002-K0	FPC	IPEX	1.48	LTE Band 2
4	Kenbotong	TQX-071427HK22	Dipole	IPEX-1	5.41	LTE Band 2
5	Kenbotong	KIT-HK23-PT24-4G	Dipole	IPEX-1	4.57	LTE Band 2
6		F-0Y-31-0166-001-K0	FPC	IPEX	3.75	LTE Band 2
7	Kenbotong	TQX-071427HK22-L	Dipole	IPEX-1	3.48	LTE Band 2
8	HEDA	HD0255-02-A01	FPC	IPEX-1	1.1	LTE Band 2

Note:

- (1) The antenna gain is provided by the manufacturer.
- (2) The antennas are not attached when sales.

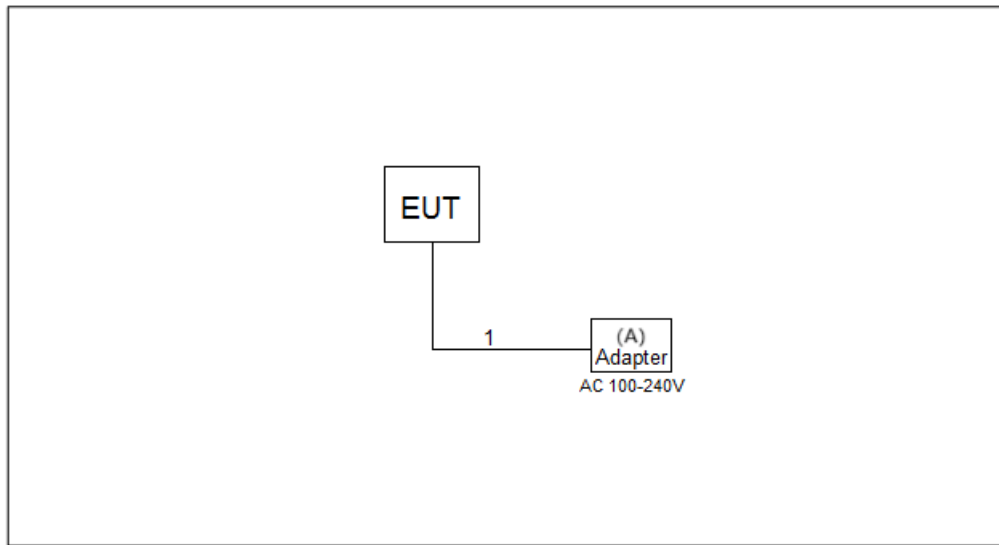
4. The UE capability is category 1, and the maximum RB Number is 27 when the modulation is 16QAM, so for the bandwidth of 10MHz, 15MHz and 20MHz only tested to 27 RB when the modulation is 16QAM.

### 3.2 DESCRIPTION OF TEST MODES

Following mode(s) is (were) found to be the worst case(s) and selected for the final test.

LTE BAND 2 MODE					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	1RB/3RB/6RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	1RB/8RB/15RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1RB/12RB/25RB
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK	1RB/25RB/50RB
				16QAM	1RB/25RB/27RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK	1RB/36RB/75RB
				16QAM	1RB/27RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK	1RB/50RB/100RB
				16QAM	1RB/27RB
Occupied Bandwidth	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	6RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	15RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	25RB
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK	50RB
				16QAM	27RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK	75RB
				16QAM	27RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK	100RB
				16QAM	27RB
Conducted Spurious Emissions	18607 to 19193	18900	1.4 MHz	QPSK	1RB
	18625 to 19175	18900	5MHz	QPSK	1RB
	18700 to 19100	18900	20MHz	QPSK	1RB
Radiated Spurious Emissions	18607 to 19193	18900	1.4 MHz	QPSK	1RB
	18625 to 19175	18900	5MHz	QPSK	1RB
	18700 to 19100	18900	20MHz	QPSK	1RB
Band Edge	18607 to 19193	18607, 19193	1.4MHz	QPSK	1RB/6RB
	18615 to 19185	18615, 19185	3MHz	QPSK	1RB/15RB
	18625 to 19175	18625, 19175	5MHz	QPSK	1RB/25RB
	18650 to 19150	18650, 19150	10MHz	QPSK	1RB/50RB
				16QAM	1RB/27RB
	18675 to 19125	18675, 19125	15MHz	QPSK	1RB/75RB
				16QAM	1RB/27RB
	18700 to 19100	18700, 19100	20MHz	QPSK	1RB/100RB
				16QAM	1RB/27RB
Peak To Average Ratio	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	1RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	1RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1RB
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	1RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	1RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1RB
Frequency Stability	18700 to 19100	18700, 19100	20MHz	QPSK	100RB

### 3.3 BLOCKDIGRAMSHOWINGTHECONFIGURATIONOFSYSTEMTESTED



### 2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.
A	Adapter	HUAWEI	HW-050100C01	H779KBJ5W03843

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	USB cable	Yes	No	1m

## 4. TEST RESULT

### 4.1 OUTPUT POWER MEASUREMENT

#### 4.1.1 LIMIT

Mobile / Portable stations are limited to 2 watts e.i.r.p.

#### 4.1.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 5 or ANSI C63.26-2015 Section 5.2.

#### EIRP:

$EIRP = \text{Output Power} + \text{Antenan gain}$

#### Output Power:

The EUT was set up for the maximum power with GSM, GPRS, EDGE, WCDMA and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

#### 4.1.3 TEST SETUP LAYOUT

##### Output Power Measurement



#### 4.1.4 TEST DEVIATION

No deviation.

#### 4.1.5 TEST RESULTS

Please refer to the APPENDIX A.

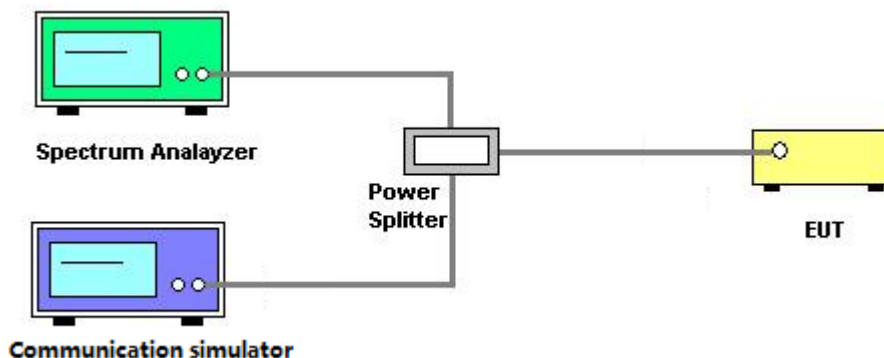
## 4.2 OCCUPIED BANDWIDTH MEASUREMENT

### 4.2.1 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 4 or ANSI C63.26-2015 Section 5.4.

1. The EUT makes a call to the communication simulator. All 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. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth and 26dB bandwidth.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3.  $RBW = (1\% \sim 5\%) * EBW$   
 $VBW \geq 3 * RBW$
4. Set spectrum analyzer with Peak detector.

### 4.2.2 TEST SETUP LAYOUT



### 4.2.3 TEST DEVIATION

No deviation.

### 4.2.4 TEST RESULTS

Please refer to the APPENDIX B.

### 4.3 CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

#### 4.3.1 LIMIT

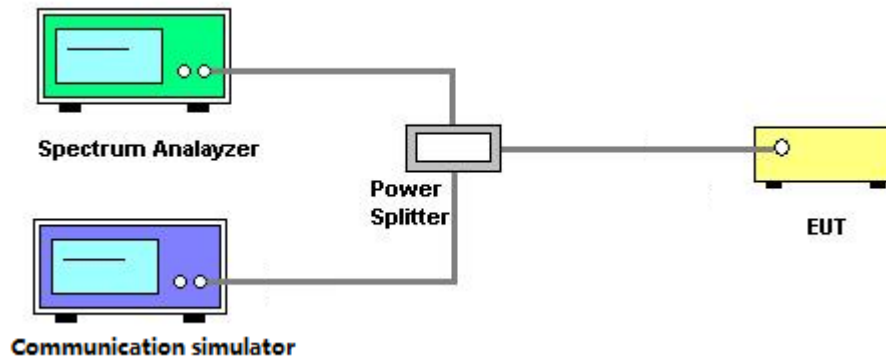
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. The emission limit equal to -13dBm.

#### 4.3.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6 or ANSI C63.26-2015 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. Set RBW  $\geq 1\%$  EBW in the 1MHz band immediately outside and adjacent to the band edge.
3. Set spectrum analyzer with Peak or RMS detector.
4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

#### 4.3.3 TEST SETUP LAYOUT



#### 4.3.4 TEST DEVIATION

No deviation.

#### 4.3.5 TEST RESULTS

Please refer to the APPENDIX C.

## 4.4 RADIATED SPURIOUS EMISSIONS MEASUREMENT

### 4.4.1 LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. The emission limit equal to -13dBm.

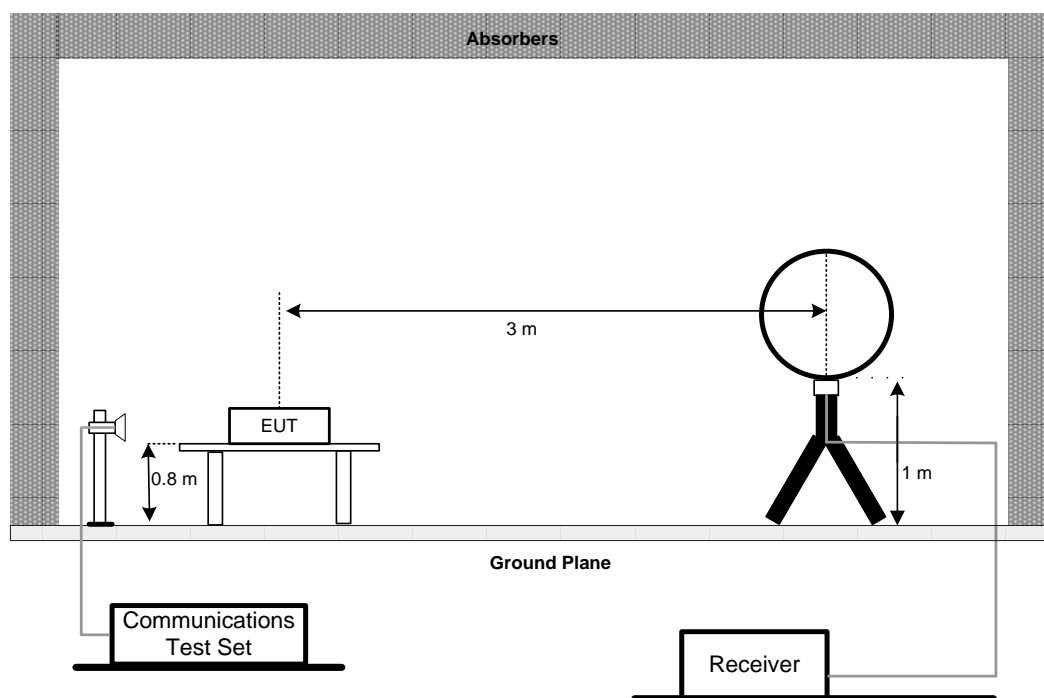
### 4.4.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.2 or ANSI C63.26-2015 Section 5.5.

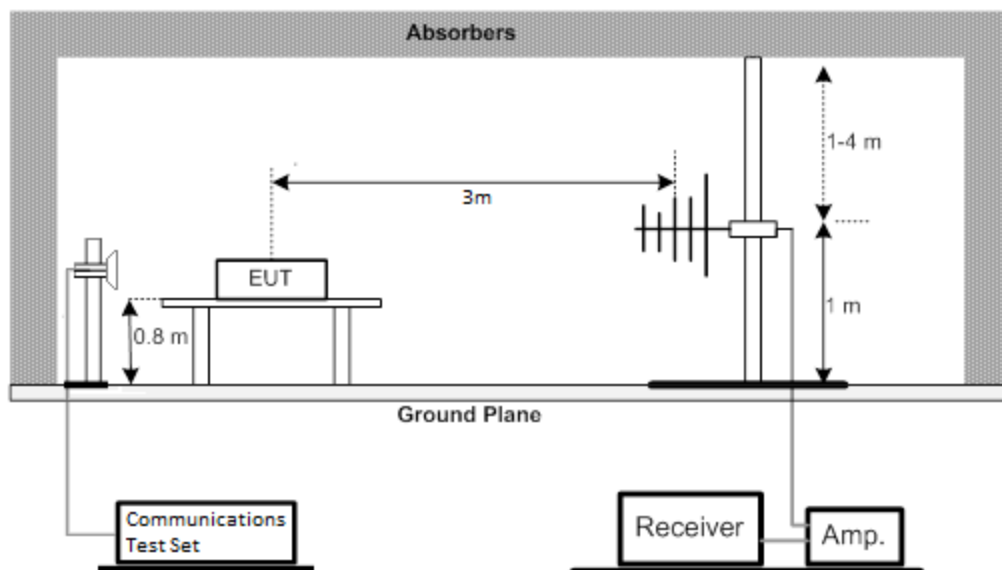
1. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
3. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
4. Start the test, rotate the table  $360^\circ$  to find the worst Angle, maintain the worst Angle, raise the antenna to 1-4m to find the worst height, maintain the worst height, then rotate the table to determine the final worst Angle, grab the spectrum diagram.
5. EUT shall be placed in accordance with X,Y,Z as required by Figure 5 in ANSI C63.26.  
Repeat Step 5 above to find the worst placement. Test all bands according to the worst placement.
6. Then EIRP is then converted to field strength as follows in Equation
7.  $E \text{ (dBuV/m)} = \text{EIRP (dBm)} - 20\log(D) + 104.8$ ; where D is the measurement distance (in the far field region) in m. The emission limit equal to 82.26dBuV/m.

### 4.4.3 TEST SETUP LAYOUT

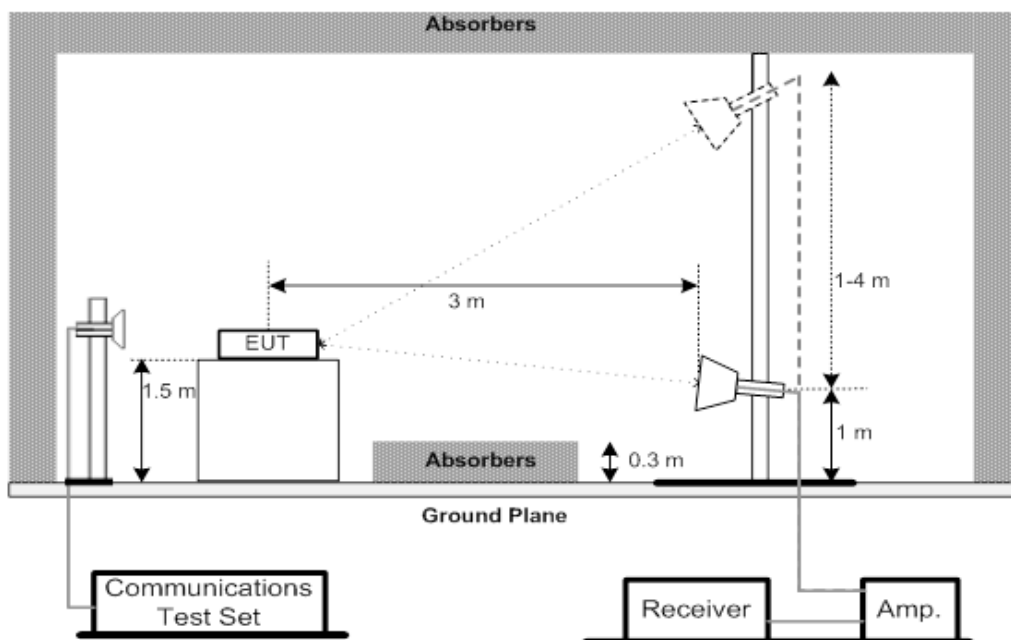
#### Below 30MHz

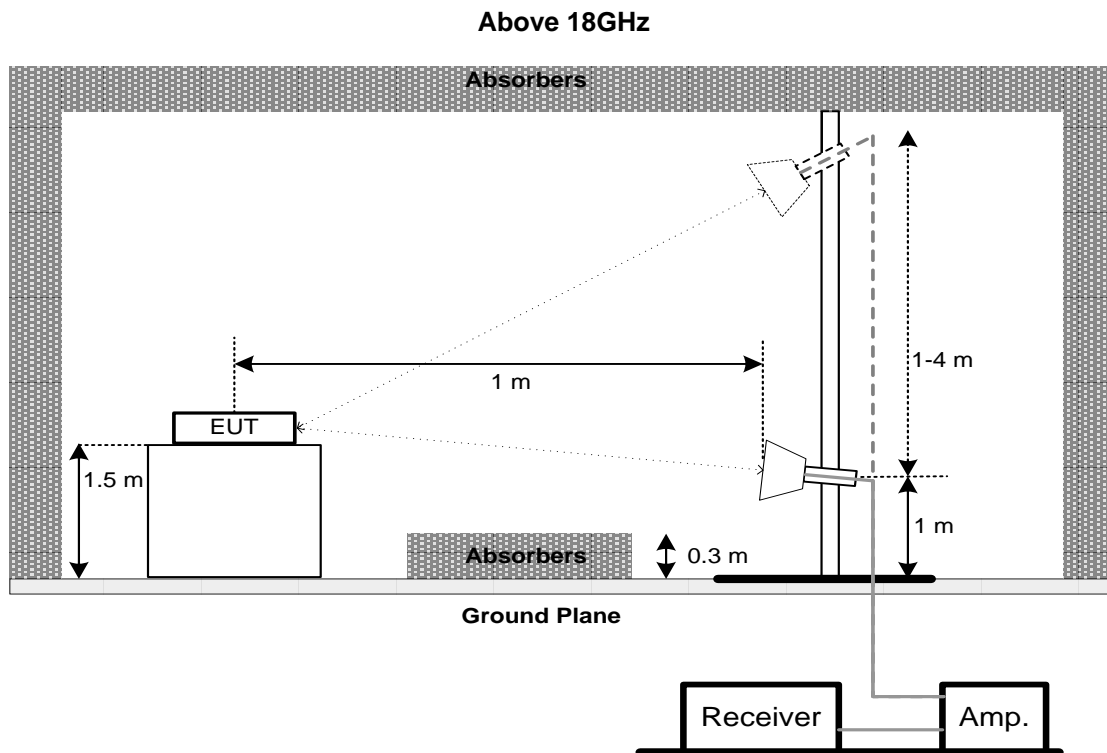


### 30MHz to 1000MHz



### 1GHz to 18GHz





#### 4.4.4 TEST DEVIATION

No deviation.

#### 4.4.5 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the APPENDIX D.

#### 4.4.6 TEST RESULTS (30MHZ TO 1000MHZ)

Please refer to the APPENDIX E.

#### 4.4.7 TEST RESULTS (ABOVE 1000MHZ)

Please refer to the APPENDIX F.

## 4.5 BAND EDGE MEASUREMENT

### 4.5.1 LIMIT

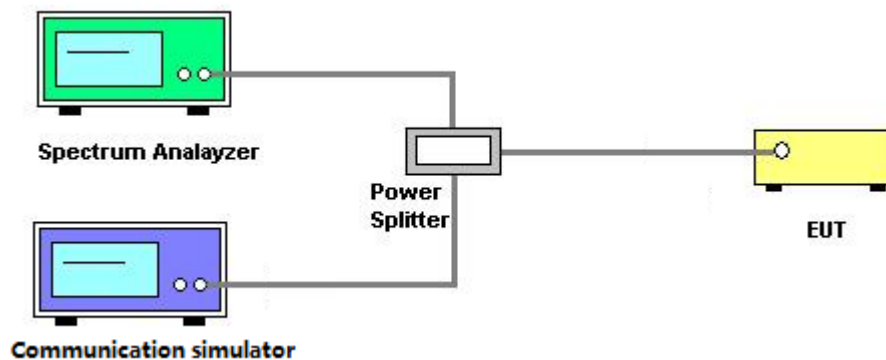
A Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

### 4.5.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6 or ANSI C63.26-2015 Section 5.7.

1. All measurements were done at low and high operational frequency range.
2. Record the max trace plot into the test report.

### 4.5.3 TEST SETUP LAYOUT



### 4.5.4 TEST DEVIATION

No deviation.

### 4.5.5 TEST RESULTS

Please refer to the APPENDIX G.

## 4.6 PEAK TO AVERAGE RATIO MEASUREMENT

### 4.6.1 LIMIT

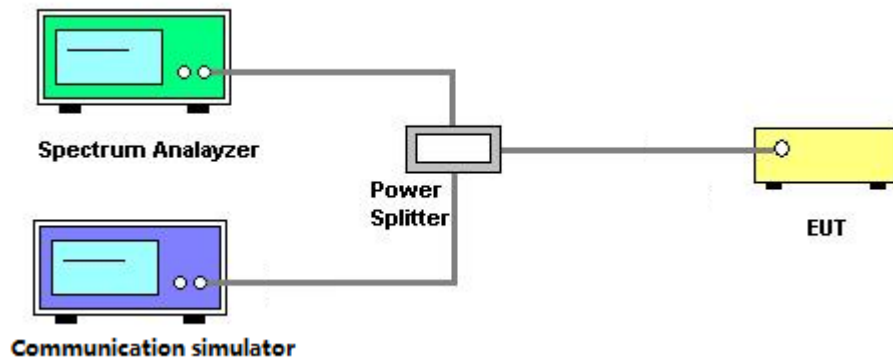
In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

### 4.6.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 5.7 or ANSI C63.26-2015 Section 5.2.6.

1. Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

### 4.6.3 TEST SETUP LAYOUT



### 4.6.4 TEST DEVIATION

No deviation.

### 4.6.5 TEST RESULTS

Please refer to the APPENDIX H.

## 4.7 FREQUENCY STABILITY MEASUREMENT

### 4.7.1 LIMIT

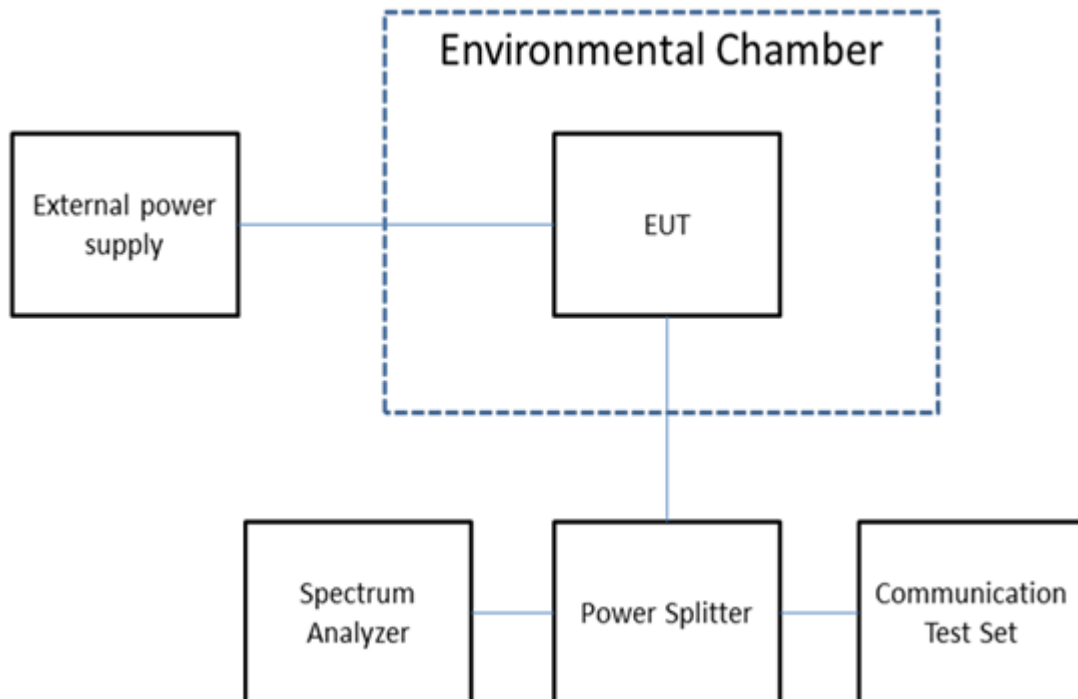
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

### 4.7.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 9 or ANSI C63.26-2015 Section 5.6.

1. A reference point shall be established at the applicable unwanted emissions limit using a RBW equal to the RBW required by the unwantedemissions specification of the applicable regulatory standard. These reference points measuredusing the lowest and highest channel of operation shall be identified as f L and f H respectively. The worst-case frequency offset determined in the above methods shall be added or subtracted from the values of f L and f H and the resulting frequencies must remain within the band.
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.

### 4.7.3 TEST SETUP LAYOUT



### 4.7.4 TEST DEVIATION

No deviation.

### 4.7.5 TEST RESULTS

Please refer to the APPENDIX I.

#### 4. LIST OF MEASUREMENT EQUIPMENTS

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Active Loop Antenna	Schwarzbeck	FMZB 1513-60	00025	Mar. 01, 2026
2	MXE EMI Receiver	Keysight	N9038A	MY56400091	Dec. 06, 2025
3	Cable	N/A	RW4950-3.8A-NM SM-1.5	N/A	Nov. 12, 2025
4	Cable	N/A	LMR400-NMNM-8 M	N/A	Nov. 12, 2025
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	966 Chamber room	CM	9*6*6	N/A	May 16, 2025

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	01462	Dec. 14, 2025
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AT-06009	Dec. 14, 2025
3	Preamplifier	EMC INSTRUMENT	EMC001330	980998	May 31, 2025
4	Cable	RegalWay	LMR400-NMNM -12.5m	N/A	Jun. 06, 2025
5	Cable	RegalWay	LMR400-NMNM -3m	N/A	Jun. 06, 2025
6	Cable	RegalWay	LMR400-NMNM -0.5m	N/A	Jun. 06, 2025
7	Receiver	Agilent	N9038A	MY52130039	Jan. 10, 2026
8	Positioning Controller	MF	MF-7802	N/A	N/A
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
10	wideband radio communication tester	R&S	CMW500	152372	Dec. 06, 2025
11	966 Chamber room	CM	9*6*6	N/A	May 16, 2025

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Multi-Device Controller	ETS-Lindgren	N/A	N/A	N/A
2	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
3	966 Chamber room	CM	9*6*6	N/A	Dec. 28, 2025
4	Cable	RegalWay	RWLP50-4.0A-SMS M-12.5M	N/A	Jul. 03, 2025
5	Cable	RegalWay	RWLP50-4.0A-NM RASM-2.5M	N/A	Jul. 03, 2025
6	Cable	RegalWay	RWLP50-4.0A-NM RASMRA-0.8M	N/A	Jul. 03, 2025
7	Receiver	Agilent	N9038A	MY52130039	Jan.10, 2026
8	Double Ridged Guide Antenna	ETS	3115	75846	Mar. 02, 2026
9	Preamplifier	EMC INSTRUMENT	EMC118A45SE	980888	Oct. 29, 2025
10	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
11	Filter	STI	STI15-9912	N/A	May 31, 2025

Radiated Emissions - Above 18 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Keysight	N9010A	MY55150209	Aug. 20, 2025
2	Preamplifier	EMC INSTRUMENT	EMC184045SE	980905	Oct. 29, 2025
3	Cable	RegalWay	RWLP50-2.6A-2.92 M2.92M-1.1M	N/A	Jul. 25, 2025
4	Cable	Tonscend	HF160-KMKM-3M	N/A	Jul. 25, 2025
5	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170(3m)	9170-319	Jun.16, 2025
6	966 Chamber room	CM	9*6*6	N/A	Dec. 28, 2025
7	Positioning Controller	MF	MF-7802	N/A	N/A
8	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
9	wideband radio communication tester	R&S	CMW500	152372	Dec. 06, 2025

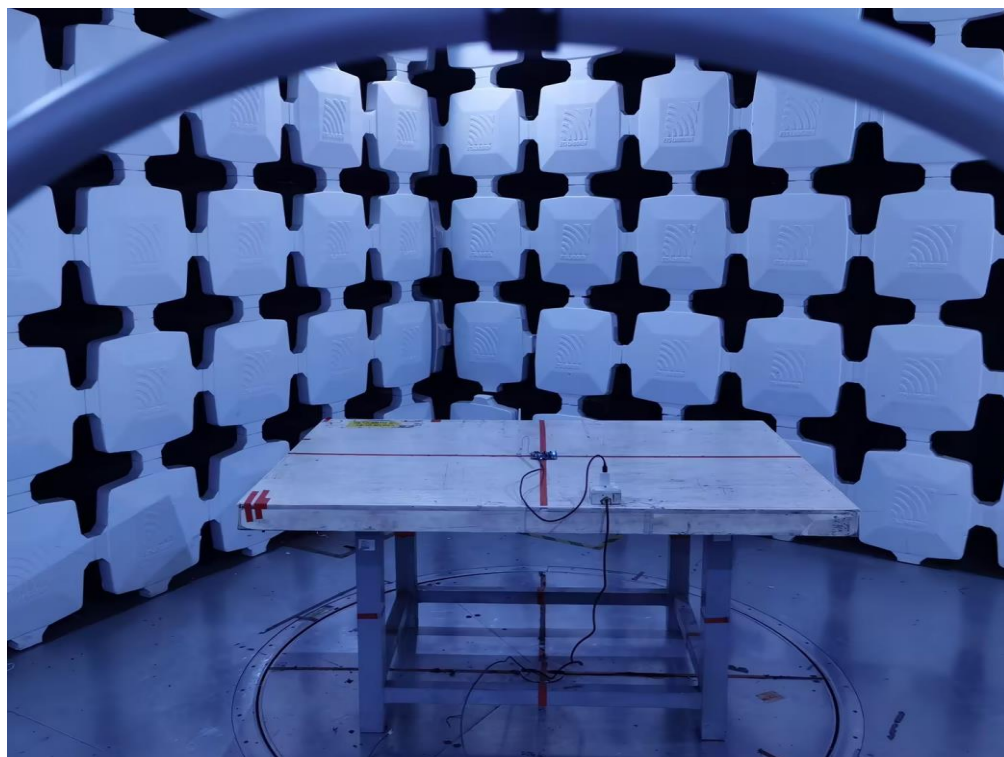
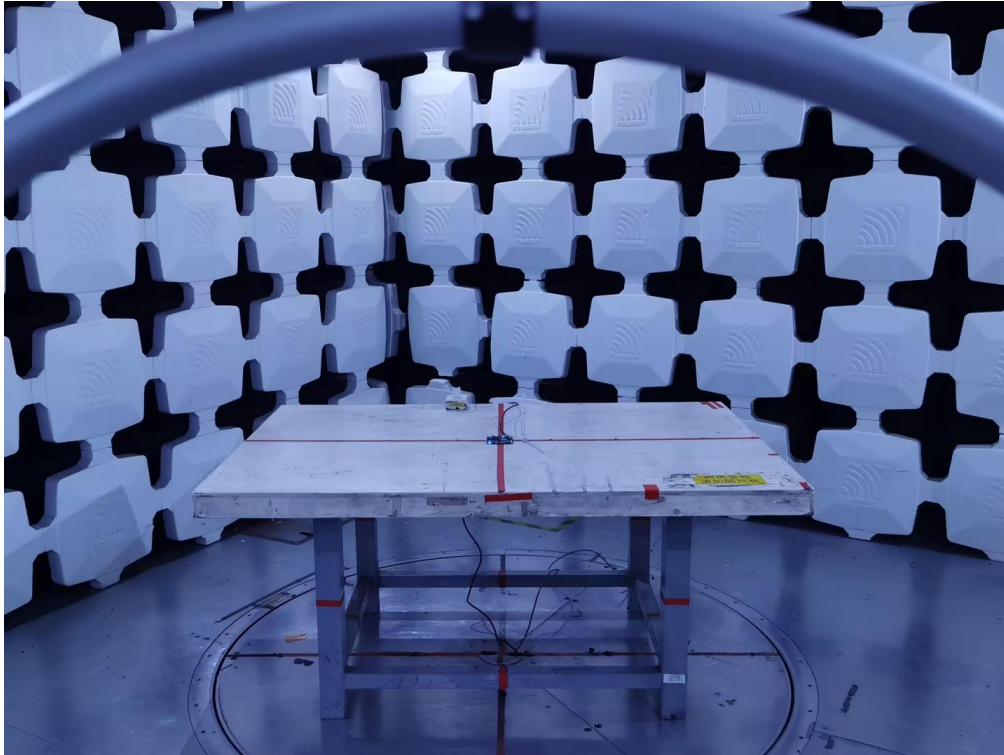
Conducted Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	MXA Signal Analyzer	Agilent Technologies	N9020A	MY49100060	Jun. 28, 2025
2	Wideband Radio Communication Tester	R&S	CWM 500	131463	Jan. 19, 2025
3	DC Source meter	Iteck	IT6154	006104126768201001	Jun. 28, 2025
4	Temperature Chamber	ESPEC	SU-242	93018786	Jun. 28, 2025

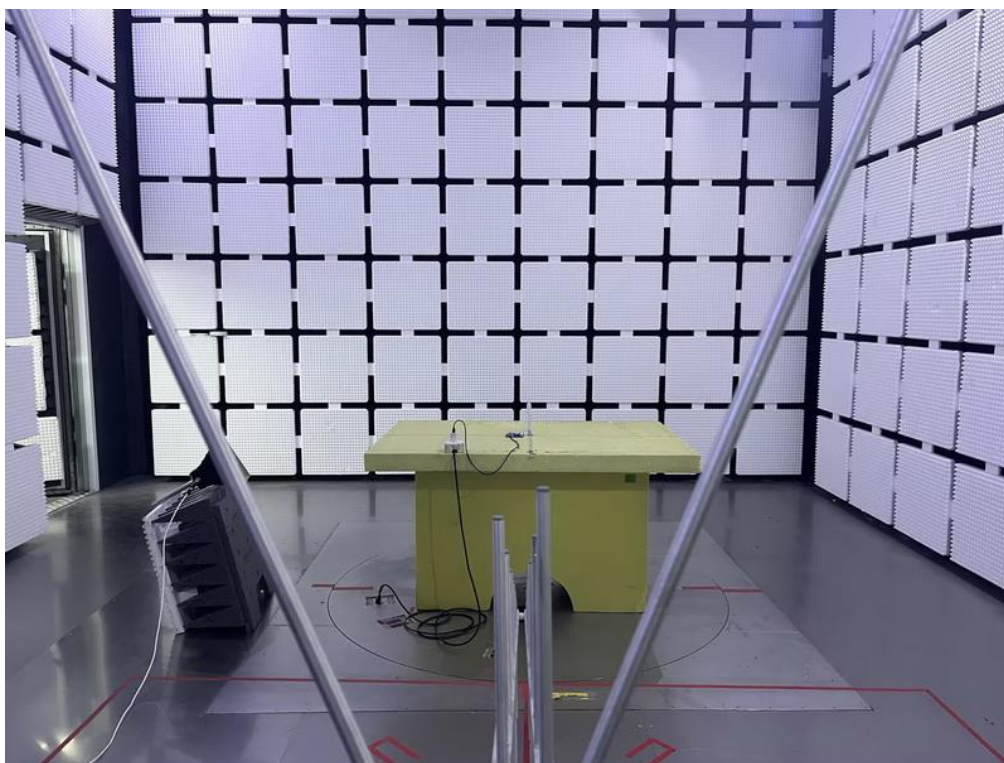
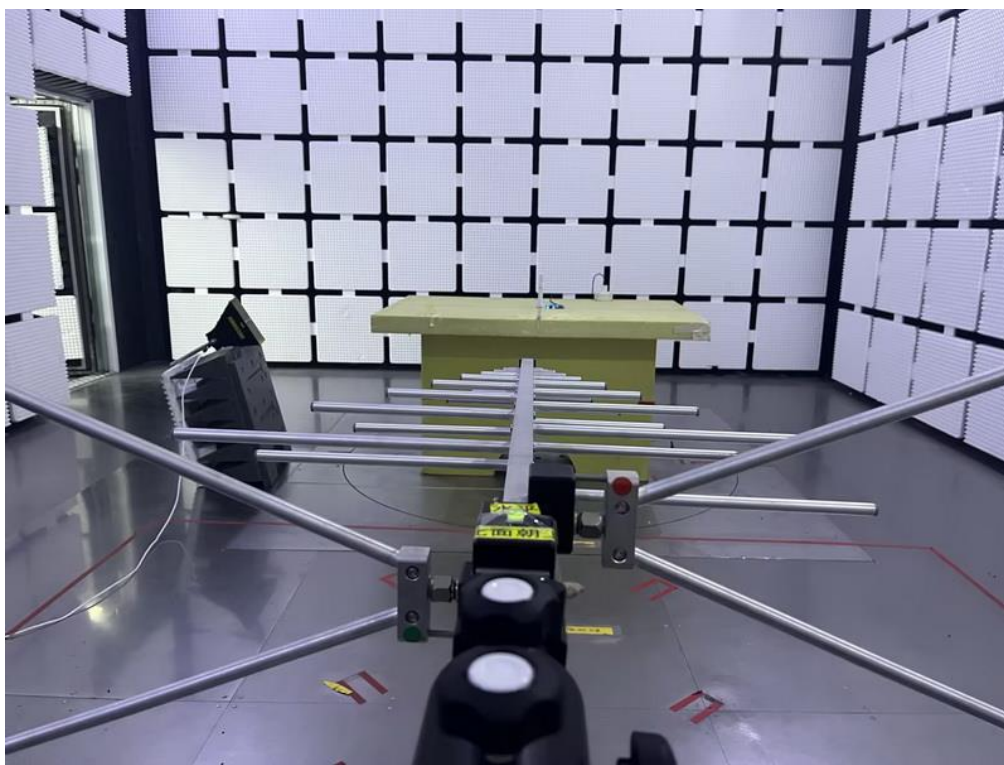
Remark: "N/A" denotes no model name, serial no. or calibration specified.  
All calibration period of equipment list is one year.

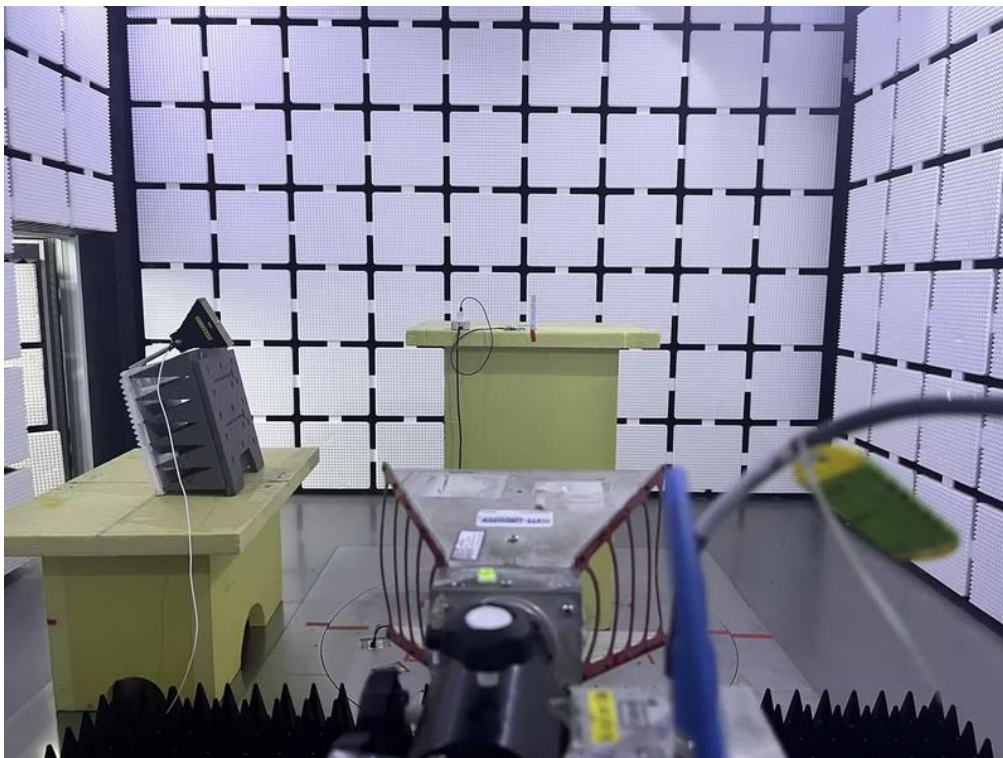
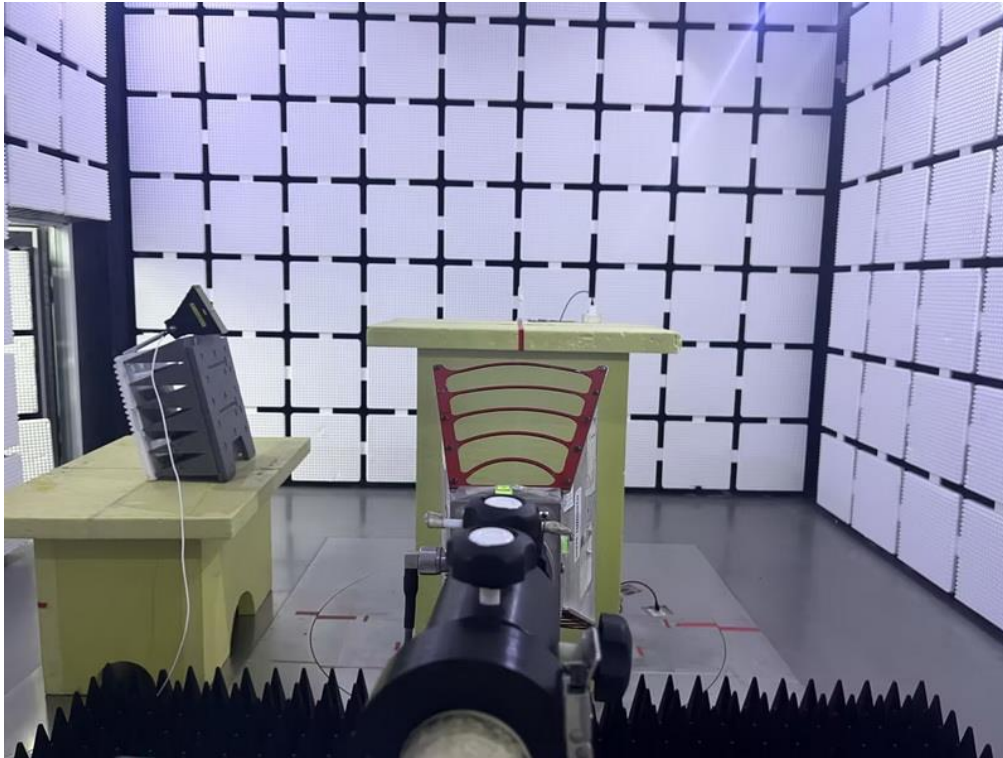
## 5. EUT TEST PHOTO

### Radiated Emissions Test Photos

9 kHz to 30 MHz

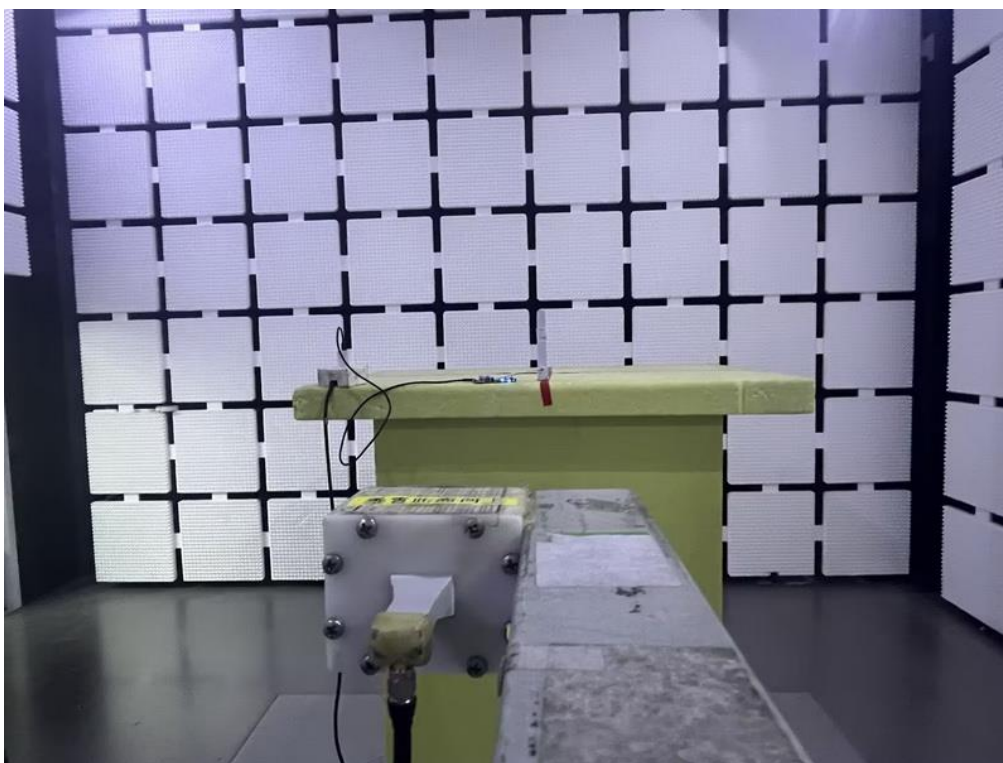
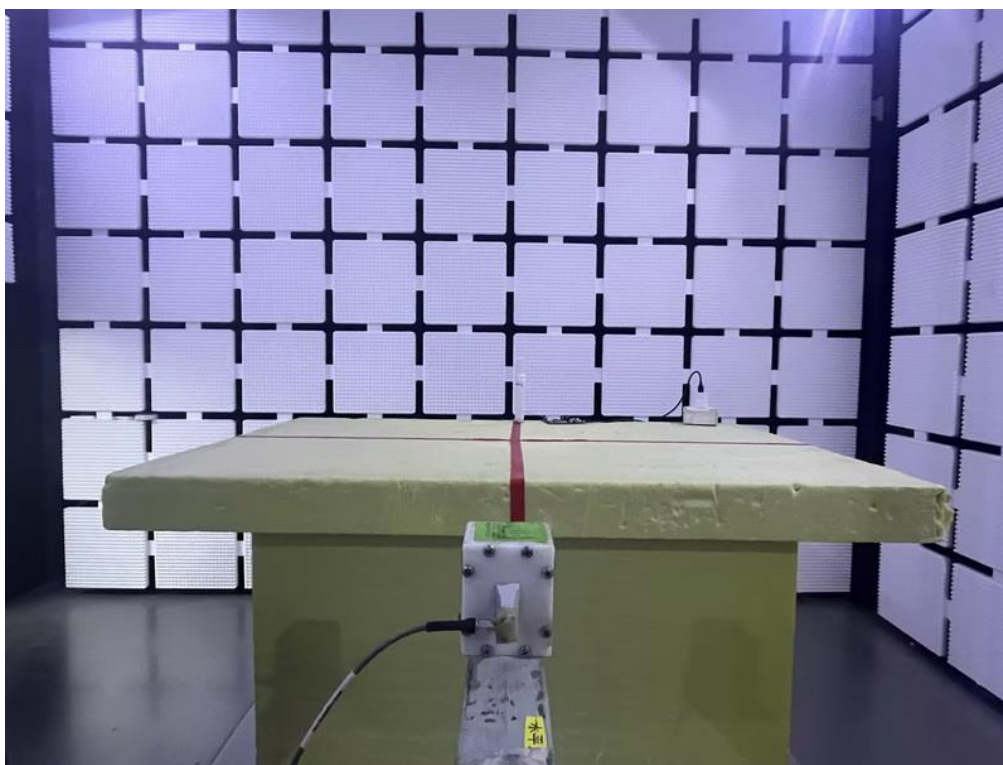


**Radiated Emissions Test Photos****30 MHz to 1 GHz**

**Radiated Emissions Test Photos****1 GHz to 18 GHz**

# Radiated Emissions Test Photos

Above 18 GHz



## APPENDIX A - OUTPUT POWER

### Output Power (dBm)

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18607CH	18900CH	19193CH
				1850.7MHz	1880MHz	1909.3MHz
2 / 1.4MHz	QPSK	1	0	23.79	23.74	23.76
		1	2	23.92	23.71	23.80
		1	5	23.90	23.78	23.67
		3	0	23.82	23.76	23.64
		3	1	23.85	23.79	23.62
		3	2	23.87	23.82	23.62
		6	0	23.09	23.11	23.02
	16QAM	1	0	23.14	23.20	23.22
		1	2	23.19	23.21	23.18
		1	5	23.24	23.27	23.21
		3	0	23.02	23.14	23.21
		3	1	23.04	23.13	23.20
		3	2	23.04	23.10	23.14
		6	0	22.19	22.23	22.47

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18615CH	18900CH	19185CH
				1851.5MHz	1880MHz	1908.5MHz
2 / 3MHz	QPSK	1	0	23.69	23.61	23.76
		1	7	23.95	23.81	23.89
		1	14	23.81	23.70	23.63
		8	0	23.11	23.01	23.11
		8	4	23.21	23.05	23.14
		8	7	23.22	23.06	23.12
		15	0	23.17	23.01	23.09
	16QAM	1	0	22.91	23.10	23.15
		1	7	23.21	23.24	23.30
		1	14	23.30	23.10	23.15
		8	0	22.25	22.13	22.42
		8	4	22.33	22.18	22.48
		8	7	22.35	22.28	22.45
		15	0	22.09	22.17	22.36

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18625CH	18900CH	19175CH
				1852.5MHz	1880MHz	1907.5MHz
2 / 5MHz	QPSK	1	0	24.06	23.92	24.06
		1	13	24.05	23.92	23.91
		1	24	24.43	24.15	23.96
		12	0	23.32	23.19	23.14
		12	6	23.36	23.18	23.17
		12	11	23.43	23.26	23.21
		25	0	23.38	23.27	23.22
	16QAM	1	0	23.52	23.54	23.46
		1	13	23.65	23.44	23.33
		1	24	23.85	23.75	23.50
		12	0	22.27	22.44	22.56
		12	6	22.28	22.43	22.54
		12	11	22.40	22.51	22.56
		25	0	22.37	22.43	22.54

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18650CH	18900CH	19150CH
				1855MHz	1880MHz	1905MHz
2 / 10MHz	QPSK	1	0	24.05	23.86	24.22
		1	25	24.26	23.82	23.93
		1	49	24.38	24.20	24.02
		25	0	23.29	23.14	23.30
		25	13	23.44	23.20	23.17
		25	25	23.44	23.35	23.24
		50	0	23.46	23.12	23.29
	16QAM	1	0	23.24	23.18	23.61
		1	25	23.48	23.24	23.37
		1	49	23.64	23.58	23.49
		25	0	22.38	22.22	22.53
		25	13	22.43	22.29	22.43
		25	25	22.49	22.44	22.46
		27	0	22.32	22.34	22.46

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18675CH	18900CH	19125CH
				1857.5MHz	1880MHz	1902.5MHz
2 / 15MHz	QPSK	1	0	23.55	23.52	24.08
		1	38	24.06	23.93	24.07
		1	74	23.75	24.05	23.80
		36	0	23.86	23.95	24.16
		36	18	23.84	23.93	24.14
		36	39	23.98	23.89	24.14
		75	0	23.96	23.87	24.16
	16QAM	1	0	22.96	23.00	23.72
		1	38	23.52	23.39	23.80
		1	74	23.20	23.41	23.46
		27	0	22.33	22.21	22.18

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18700CH	18900CH	19100CH
				1860MHz	1880MHz	1900MHz
2 / 20MHz	QPSK	1	0	23.58	23.59	23.92
		1	50	24.11	23.84	24.25
		1	99	23.69	23.98	23.74
		50	0	23.72	23.92	24.04
		50	25	23.75	23.90	24.02
		50	50	23.30	23.47	24.00
		100	0	23.80	23.92	24.09
	16QAM	1	0	22.96	22.96	23.61
		1	50	23.51	23.22	23.94
		1	99	23.09	23.41	23.44
		27	0	22.12	22.07	22.01

### EIRP (dBm)

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18607CH	18900CH	19193CH
				1850.7MHz	1880MHz	1909.3MHz
2 / 1.4MHz	QPSK	1	0	29.20	29.15	29.17
		1	2	29.33	29.12	29.21
		1	5	29.31	29.19	29.08
		3	0	29.23	29.17	29.05
		3	1	29.26	29.20	29.03
		3	2	29.28	29.23	29.03
		6	0	28.50	28.52	28.43
	16QAM	1	0	28.55	28.61	28.63
		1	2	28.60	28.62	28.59
		1	5	28.65	28.68	28.62
		3	0	28.43	28.55	28.62
		3	1	28.45	28.54	28.61
		3	2	28.45	28.51	28.55
		6	0	27.60	27.64	27.88

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18615CH	18900CH	19185CH
				1851.5MHz	1880MHz	1908.5MHz
2 / 3MHz	QPSK	1	0	29.10	29.02	29.17
		1	7	29.36	29.22	29.30
		1	14	29.22	29.11	29.04
		8	0	28.52	28.42	28.52
		8	4	28.62	28.46	28.55
		8	7	28.63	28.47	28.53
		15	0	28.58	28.42	28.50
	16QAM	1	0	28.32	28.51	28.56
		1	7	28.62	28.65	28.71
		1	14	28.71	28.51	28.56
		8	0	27.66	27.54	27.83
		8	4	27.74	27.59	27.89
		8	7	27.76	27.69	27.86
		15	0	27.50	27.58	27.77

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18625CH	18900CH	19175CH
				1852.5MHz	1880MHz	1907.5MHz
2 / 5MHz	QPSK	1	0	29.47	29.33	29.47
		1	13	29.46	29.33	29.32
		1	24	29.84	29.56	29.37
		12	0	28.73	28.60	28.55
		12	6	28.77	28.59	28.58
		12	11	28.84	28.67	28.62
		25	0	28.79	28.68	28.63
	16QAM	1	0	28.93	28.95	28.87
		1	13	29.06	28.85	28.74
		1	24	29.26	29.16	28.91
		12	0	27.68	27.85	27.97
		12	6	27.69	27.84	27.95
		12	11	27.81	27.92	27.97
		25	0	27.78	27.84	27.95

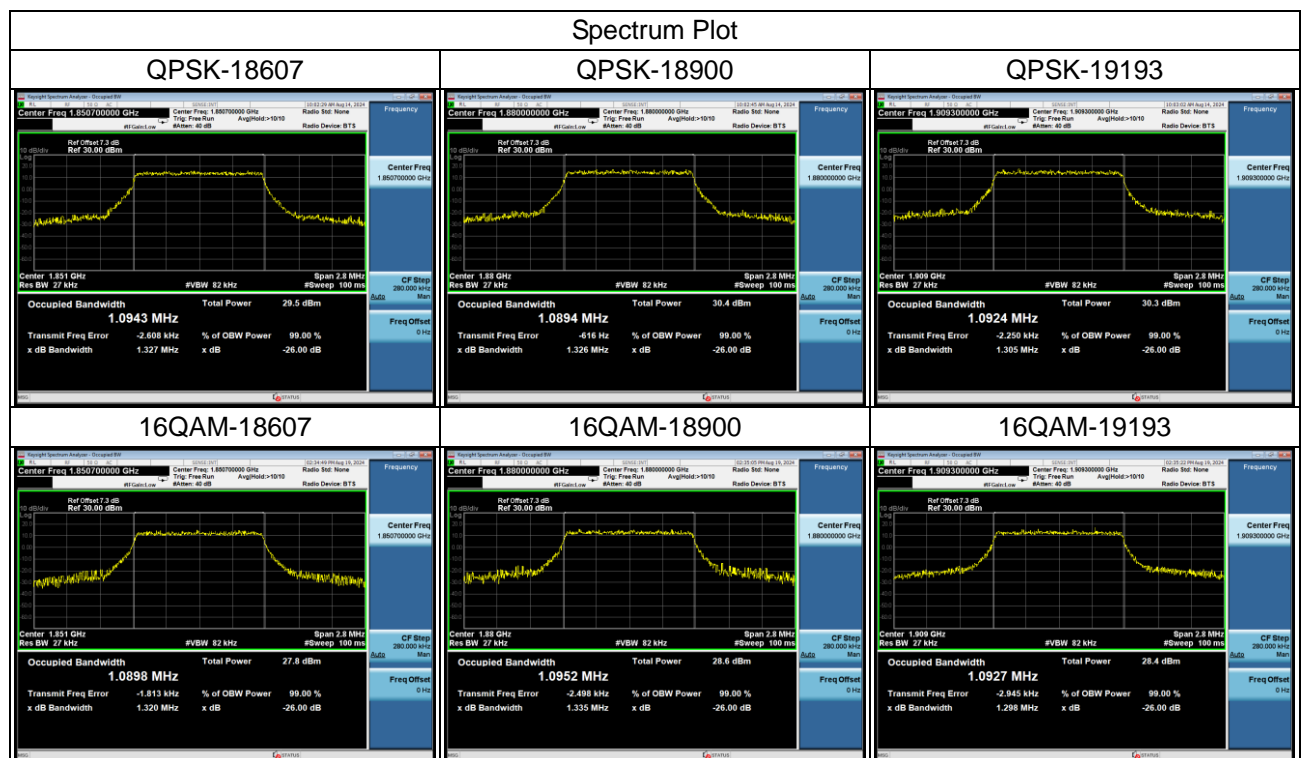
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18650CH	18900CH	19150CH
				1855MHz	1880MHz	1905MHz
2 / 10MHz	QPSK	1	0	29.46	29.27	29.63
		1	25	29.67	29.23	29.34
		1	49	29.79	29.61	29.43
		25	0	28.70	28.55	28.71
		25	13	28.85	28.61	28.58
		25	25	28.85	28.76	28.65
		50	0	28.87	28.53	28.70
	16QAM	1	0	28.65	28.59	29.02
		1	25	28.89	28.65	28.78
		1	49	29.05	28.99	28.90
		25	0	27.79	27.63	27.94
		25	13	27.84	27.70	27.84
		25	25	27.90	27.85	27.87
		27	0	27.73	27.75	27.87

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18675CH	18900CH	19125CH
				1857.5MHz	1880MHz	1902.5MHz
2 / 15MHz	QPSK	1	0	28.96	28.93	29.49
		1	38	29.47	29.34	29.48
		1	74	29.16	29.46	29.21
		36	0	29.27	29.36	29.57
		36	18	29.25	29.34	29.55
		36	39	29.39	29.30	29.55
		75	0	29.37	29.28	29.57
	16QAM	1	0	28.37	28.41	29.13
		1	38	28.93	28.80	29.21
		1	74	28.61	28.82	28.87
		27	0	27.74	27.62	27.59

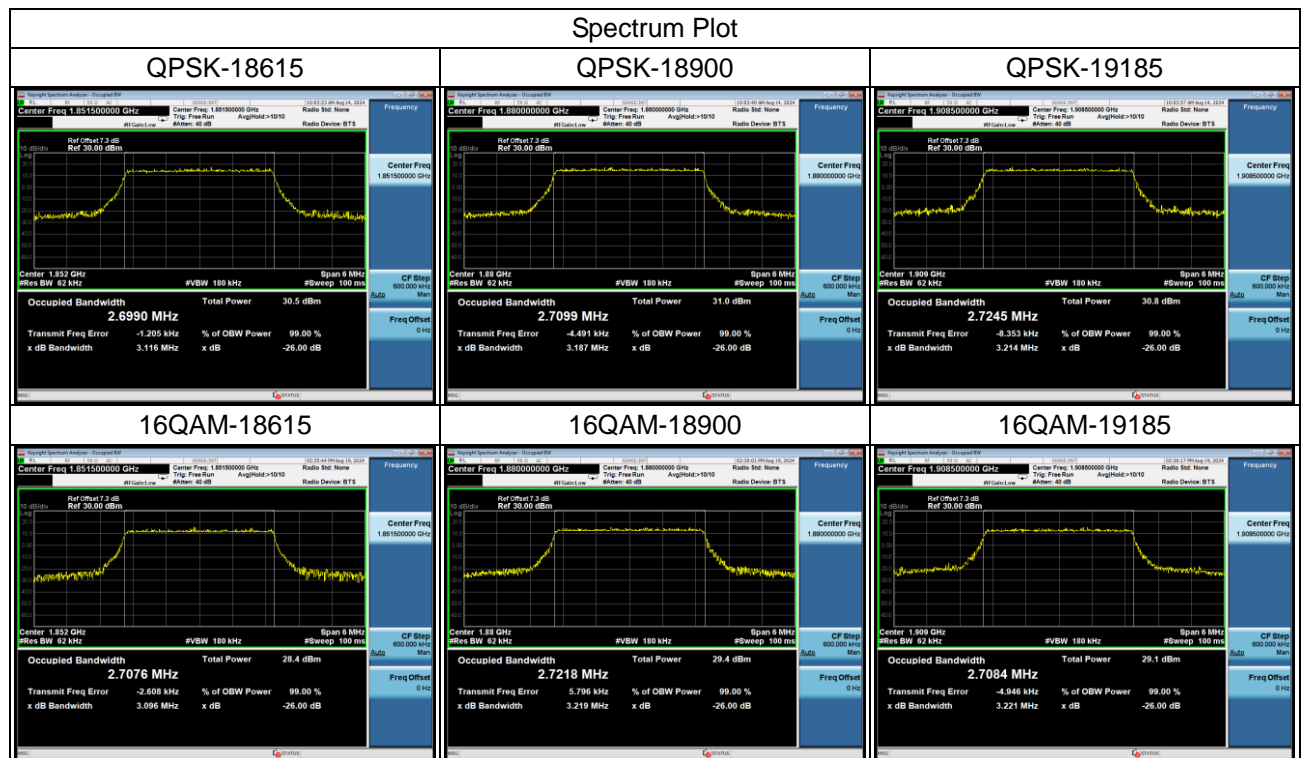
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				18700CH	18900CH	19100CH
				1860MHz	1880MHz	1900MHz
2 / 20MHz	QPSK	1	0	28.99	29.00	29.33
		1	50	29.52	29.25	29.66
		1	99	29.10	29.39	29.15
		50	0	29.13	29.33	29.45
		50	25	29.16	29.31	29.43
		50	50	28.71	28.88	29.41
		100	0	29.21	29.33	29.50
	16QAM	1	0	28.37	28.37	29.02
		1	50	28.92	28.63	29.35
		1	99	28.50	28.82	28.85
		27	0	27.53	27.48	27.42

## APPENDIX B - OCCUPIED BANDWIDTH

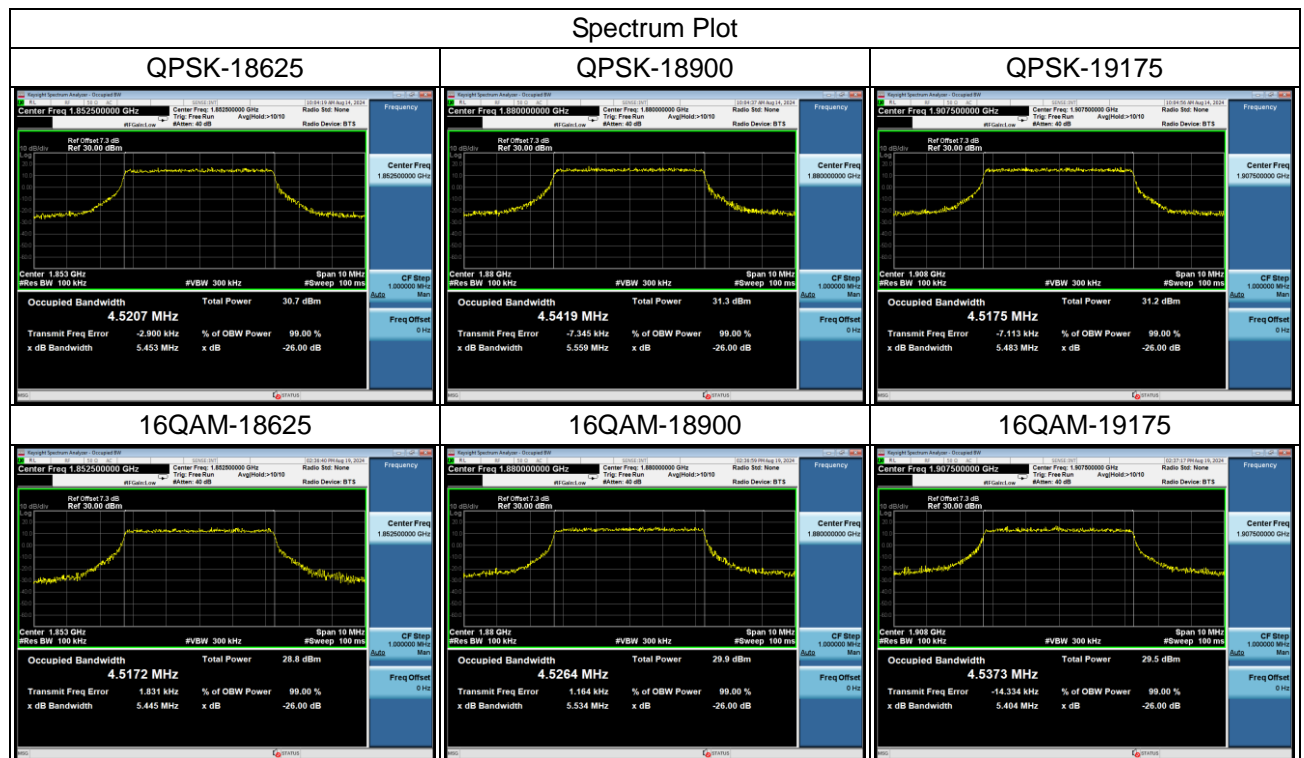
LTE Band 2_1.4MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
18607	1850.7	1.0943	1.0898	1.327	1.320
18900	1880	1.0894	1.0952	1.326	1.335
19193	1909.3	1.0924	1.0927	1.305	1.298



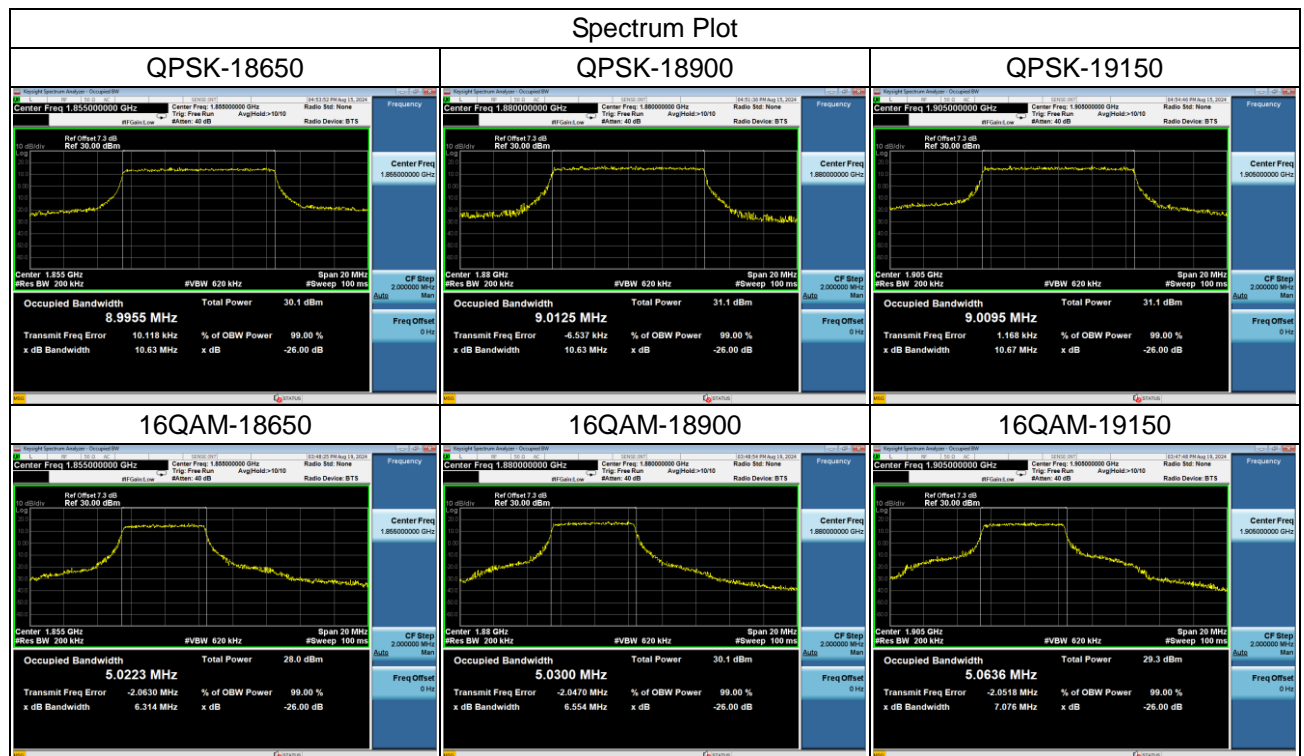
LTE Band 2_3MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
18615	1851.5	2.6990	2.7076	3.116	3.096
18900	1880	2.7099	2.7218	3.187	3.219
19185	1908.5	2.7245	2.7084	3.214	3.221



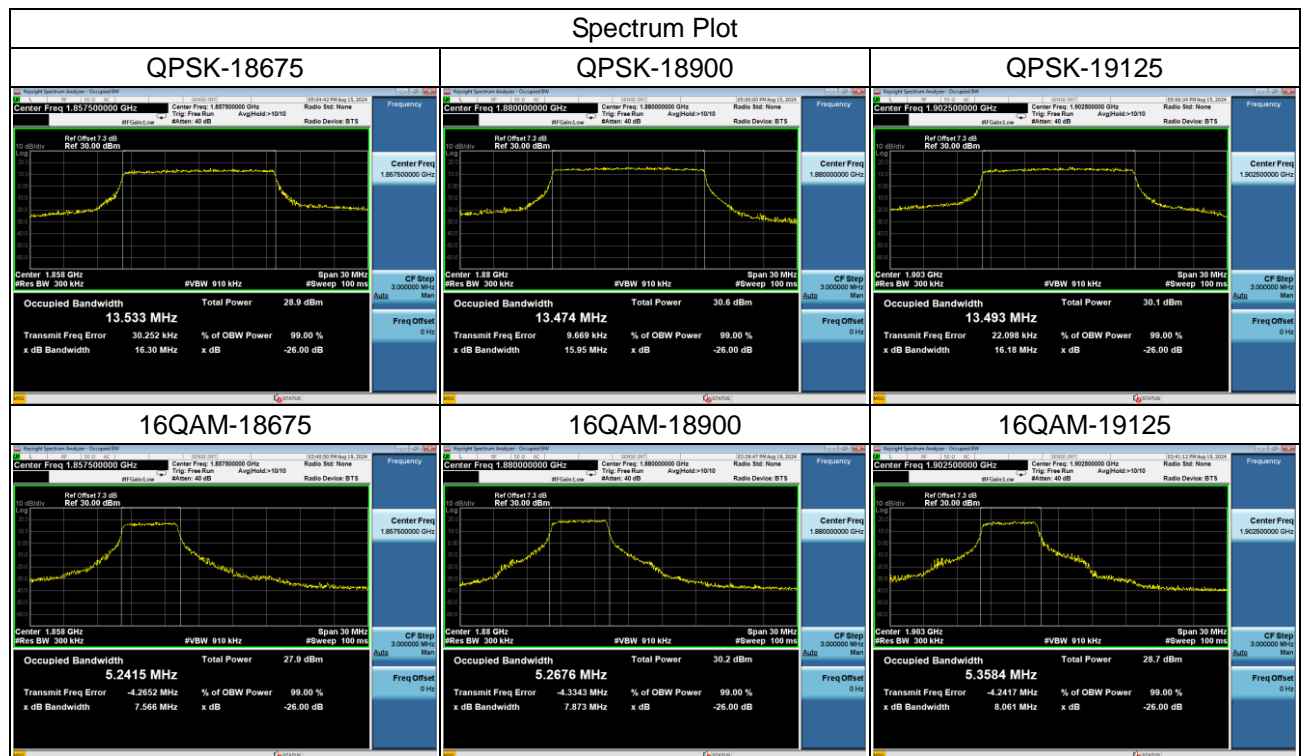
LTE Band 2_5MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
18625	1852.5	4.5207	4.5172	5.453	5.445
18900	1880	4.5419	4.5264	5.559	5.534
19175	1907.5	4.5175	4.5373	5.483	5.404



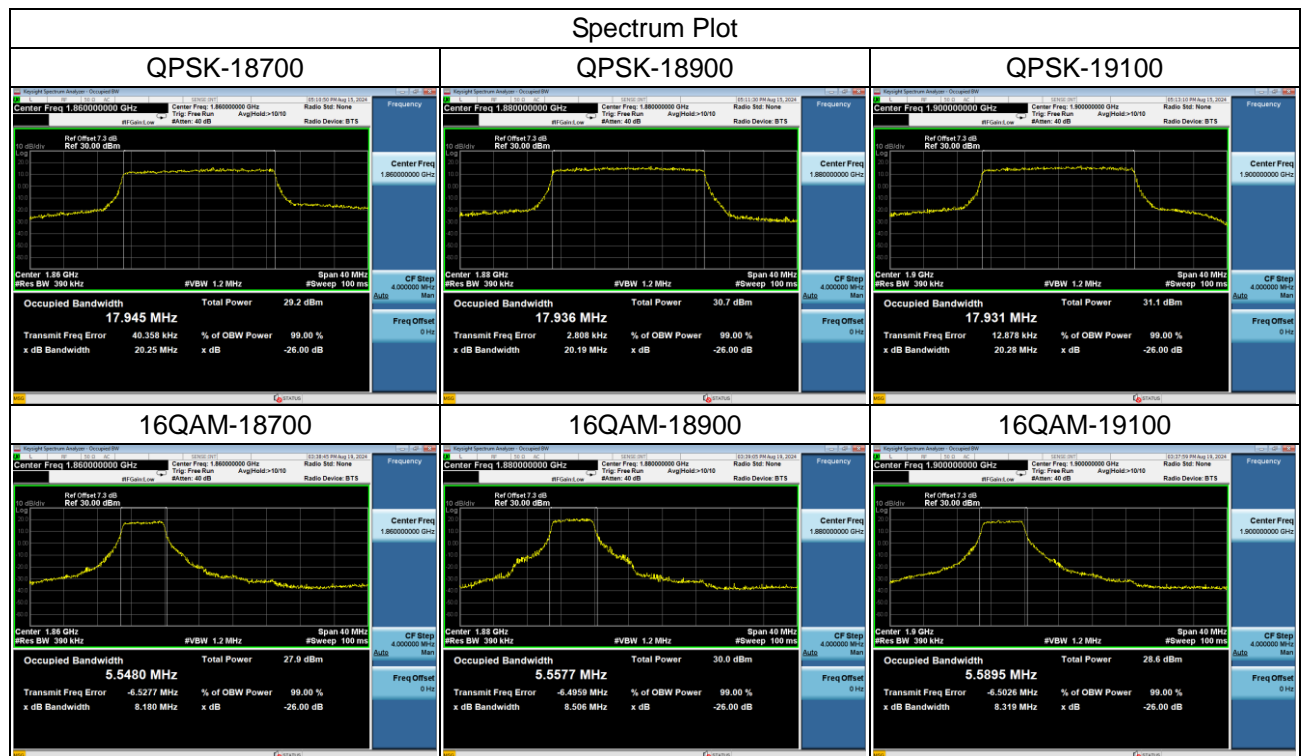
LTE Band 2_10MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
18650	1855	8.9955	5.0223	10.63	6.314
18900	1880	9.0125	5.0300	10.63	6.554
19150	1905	9.0095	5.0636	10.67	7.076



LTE Band 2_15MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
18675	1857.5	13.533	5.2415	16.30	7.566
18900	1880	13.474	5.2676	15.95	7.873
19125	1902.5	13.493	5.3584	16.18	8.061

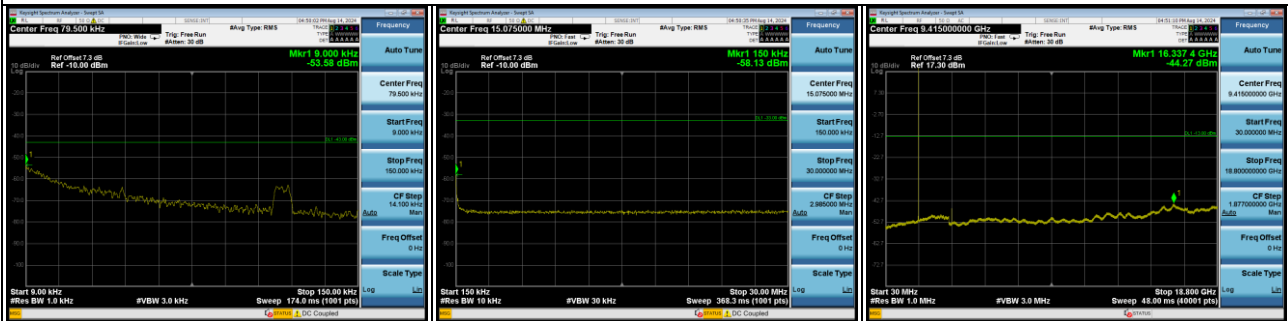


LTE Band 2_20MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
18700	1860	17.945	5.5480	20.25	8.180
18900	1880	17.936	5.5577	20.19	8.506
19100	1900	17.931	5.5895	20.28	8.319

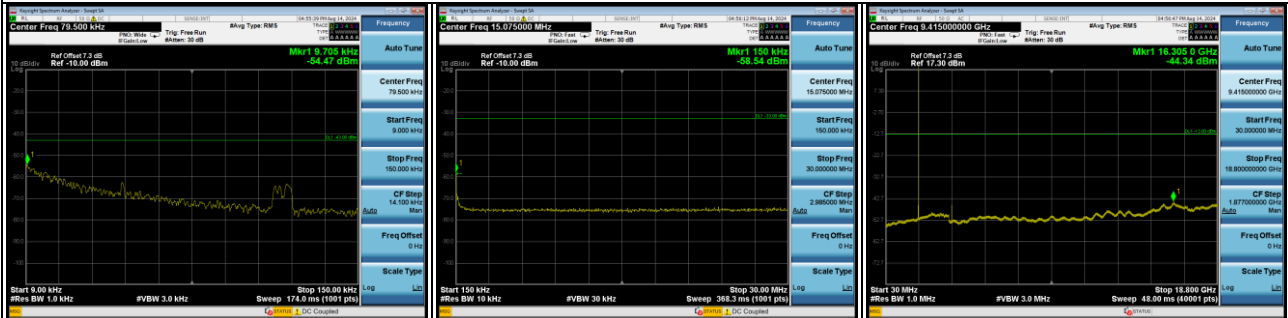


## **APPENDIX C - CONDUCTED SPURIOUS EMISSIONS**

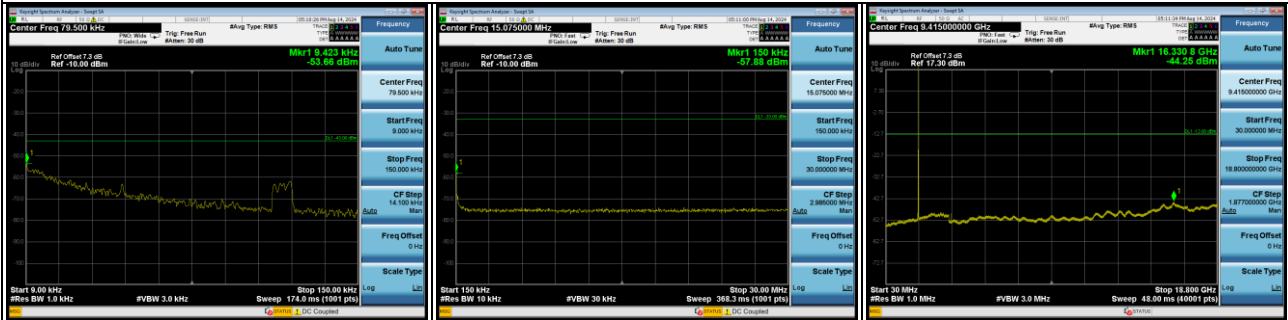
LTE Band 2\_1.4MHz\_CH18900 Spectrum Plot



LTE Band 2\_5MHz\_CH18900 Spectrum Plot



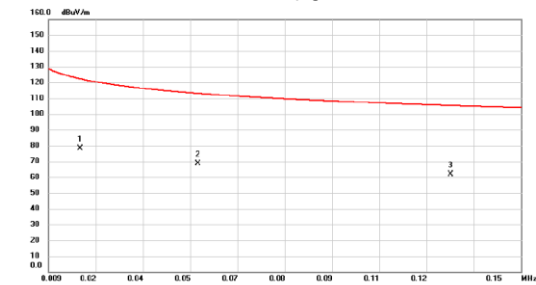
LTE Band 2\_20MHz\_CH18900 Spectrum Plot



## **APPENDIX D - RADIATED SPURIOUS EMISSIONS (9KHZ TO 30MHZ)**

Test Mode : TX Mode

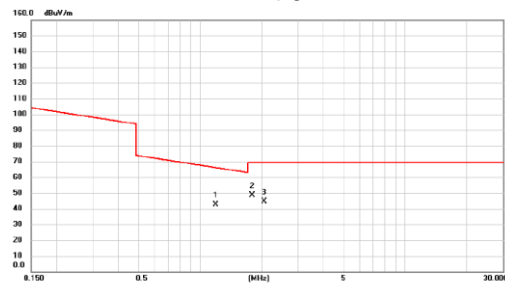
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.018	57.24	20.79	78.03	122.31	-44.28	AVG	
2		0.054	47.31	21.25	68.56	113.01	-44.45	AVG	
3 *		0.129	40.53	21.30	61.83	105.39	-43.56	QP	

Test Mode : TX Mode

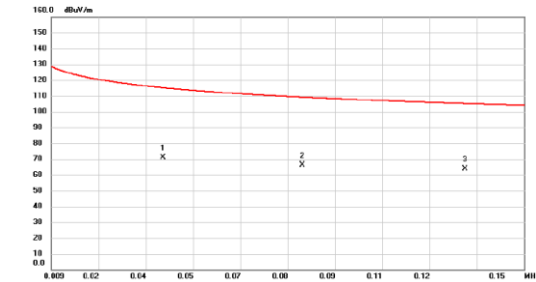
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		1.195	21.43	21.18	42.61	66.06	-23.45	QP	
2 *		1.792	27.61	21.13	48.74	69.54	-20.80	QP	
3		2.060	23.33	21.11	44.44	69.54	-25.10	QP	

Test Mode : TX Mode

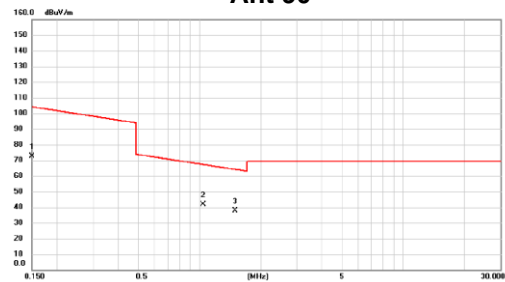
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.042	49.85	21.20	71.05	115.08	-44.03	AVG	
2		0.084	44.68	21.34	66.02	109.12	-43.10	AVG	
3 *		0.132	42.63	21.29	63.92	105.17	-41.25	QP	

Test Mode : TX Mode

Ant 90°

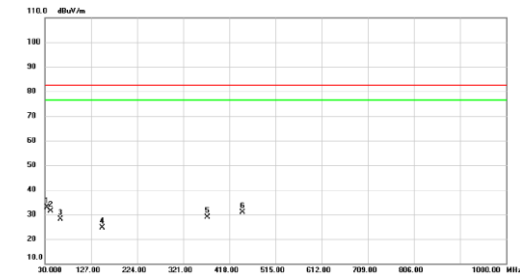


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.150	51.34	21.27	72.61	104.09	-31.48	AVG	
2 *		1.046	20.63	21.20	41.83	67.22	-25.39	QP	
3		1.493	16.52	21.15	37.67	64.12	-26.45	QP	

## **APPENDIX E - RADIATED SPURIOUS EMISSIONS (30MHZ TO 1000MHZ)**

Test Mode : LTE Band 2\_TX CH18900\_1.4MHz

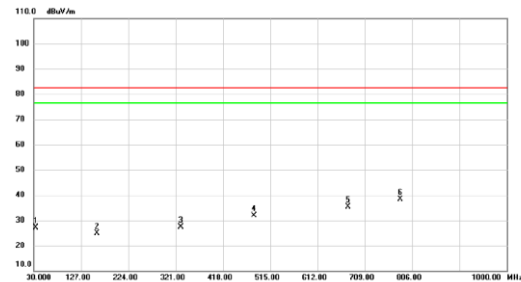
## Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	34.850	45.29	-12.40	32.89	82.30	-49.41	peak	
2		42.610	42.91	-11.59	31.32	82.30	-50.98	peak	
3		62.980	40.26	-12.25	28.01	82.30	-54.29	peak	
4		151.250	35.84	-11.10	24.74	82.30	-57.56	peak	
5		371.440	37.58	-8.76	28.82	82.30	-53.48	peak	
6		446.130	37.62	-8.70	30.92	82.30	-51.38	peak	

Test Mode : LTE Band 2\_TX CH18900\_1.4MHz

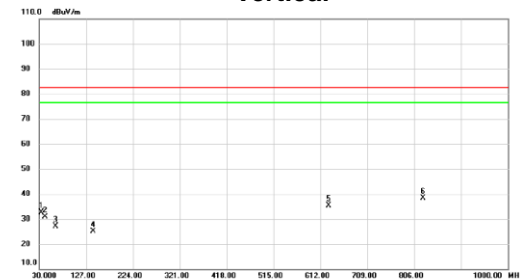
## Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		33.880	39.56	-12.51	27.05	82.30	-55.25	peak	
2		159.980	35.85	-11.02	24.83	82.30	-57.47	peak	
3		331.670	36.86	-9.50	27.36	82.30	-54.94	peak	
4		482.020	38.05	-6.10	31.95	82.30	-50.35	peak	
5		675.050	37.82	-2.56	35.26	82.30	-47.04	peak	
6	*	781.750	39.33	-0.85	38.48	82.30	-43.82	peak	

Test Mode : LTE Band 2\_TX CH18900\_5MHz

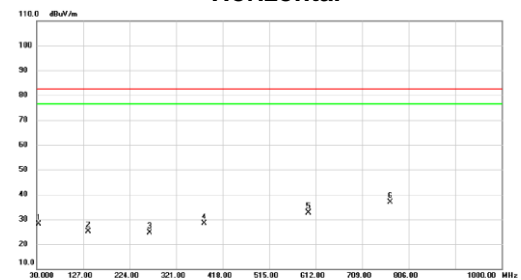
## Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		34.850	45.08	-12.40	32.68	82.30	-49.62	peak	
2		41.640	42.44	-11.67	30.77	82.30	-51.53	peak	
3		63.950	39.57	-12.38	27.19	82.30	-55.11	peak	
4		141.550	36.63	-11.58	25.05	82.30	-57.25	peak	
5		629.460	38.29	-3.02	35.27	82.30	-47.03	peak	
6	*	824.430	39.10	-0.68	38.42	82.30	-43.88	peak	

Test Mode : LTE Band 2\_TX CH18900\_5MHz

## Horizontal

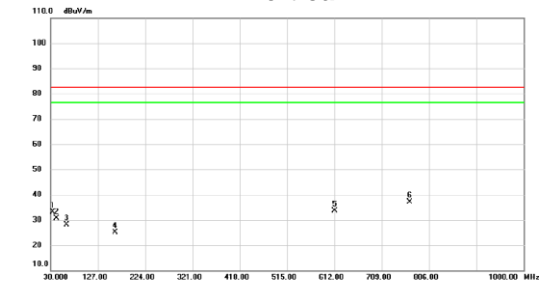


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		33.880	40.64	-12.51	28.13	82.30	-54.17	peak	
2		138.640	36.88	-11.78	25.10	82.30	-57.20	peak	
3		265.710	36.37	-11.72	24.65	82.30	-57.65	peak	
4		379.200	36.86	-8.51	28.35	82.30	-53.95	peak	
5		596.480	36.48	-3.76	32.72	82.30	-49.58	peak	
6	*	768.170	37.69	-0.84	36.85	82.30	-45.45	peak	

Test Mode : LTE Band 2\_TX CH18900\_20MHz

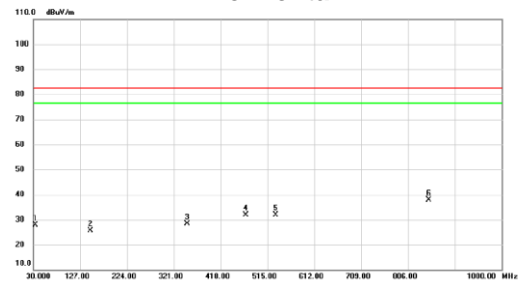
Test Mode : LTE Band 2\_TX CH18900\_20MHz

## Vertical



No.	Mk.	Freq. (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measurement (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1		34.850	45.56	-12.40	33.16	82.30	-49.14	peak	
2		42.610	42.10	-11.59	30.51	82.30	-51.79	peak	
3		62.980	40.40	-12.25	28.15	82.30	-54.15	peak	
4		161.920	36.33	-11.11	25.22	82.30	-57.08	peak	
5		612.000	37.08	-3.41	33.67	82.30	-48.63	peak	
6	*	766.230	37.95	-0.84	37.11	82.30	-45.19	peak	

## Horizontal

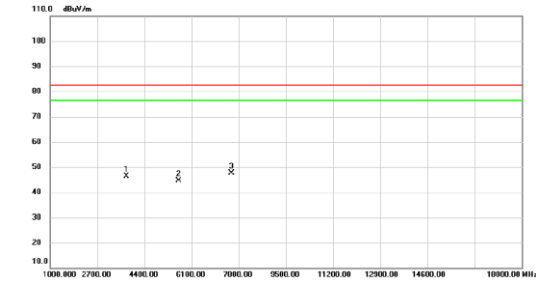


No.	Mk.	Freq. (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measurement (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1		34.850	40.31	-12.40	27.91	82.30	-54.39	peak	
2		148.340	36.73	-11.20	25.53	82.30	-56.77	peak	
3		349.130	37.70	-9.38	28.32	82.30	-53.98	peak	
4		470.380	38.04	-6.28	31.76	82.30	-50.54	peak	
5		532.460	37.14	-5.23	31.91	82.30	-50.39	peak	
6	*	848.680	38.27	-0.50	37.77	82.30	-44.53	peak	

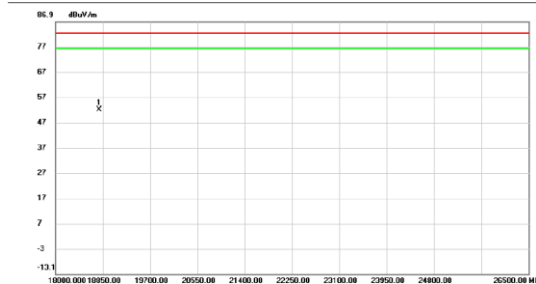
## **APPENDIX F - RADIATED SPURIOUS EMISSIONS (ABOVE 1000MHZ)**

Test Mode : LTE Band 2\_TX CH18900\_1.4MHz

## Vertical



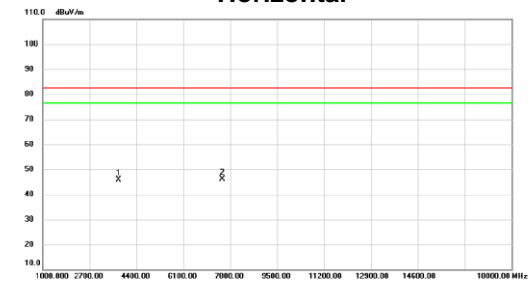
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		3754.000	45.19	1.30	46.49	82.30	-35.81	peak	
2		5641.000	39.79	4.81	44.60	82.30	-37.70	peak	
3 *		7528.000	39.28	8.43	47.71	82.30	-34.59	peak	



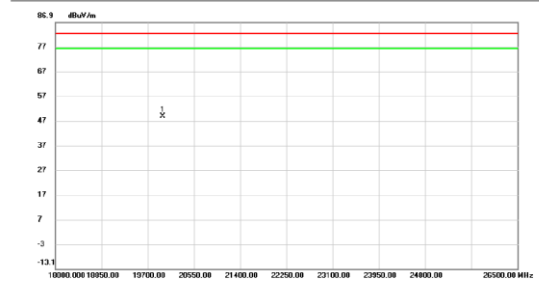
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *		18782.000	53.52	-1.50	52.02	82.30	-30.28	peak	

Test Mode : LTE Band 2\_TX CH18900\_1.4MHz

## Horizontal



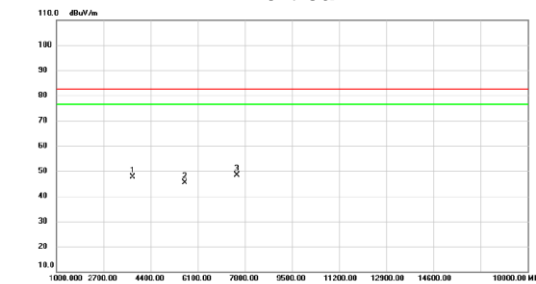
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		3754.000	44.61	1.30	45.91	82.30	-36.39	peak	
2 *		7511.000	37.74	8.45	46.19	82.30	-36.11	peak	



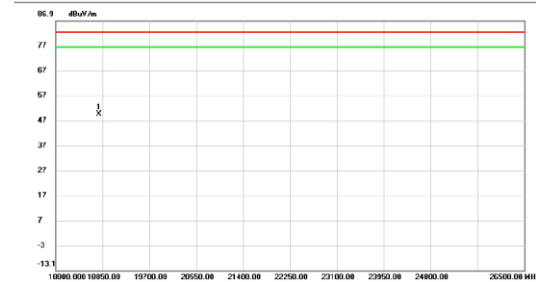
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *		19980.500	49.56	-0.89	48.67	82.30	-33.63	peak	

Test Mode : LTE Band 2\_TX CH18900\_5MHz

## Vertical



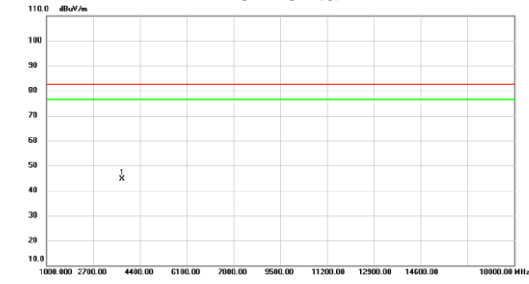
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		3754.000	46.41	1.30	47.71	82.30	-34.59	peak	
2		5641.000	40.62	4.81	45.43	82.30	-36.87	peak	
3 *		7511.000	39.93	8.45	48.38	82.30	-33.92	peak	



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *		18782.000	51.06	-1.50	49.56	82.30	-32.74	peak	

Test Mode : LTE Band 2\_TX CH18900\_5MHz

## Horizontal



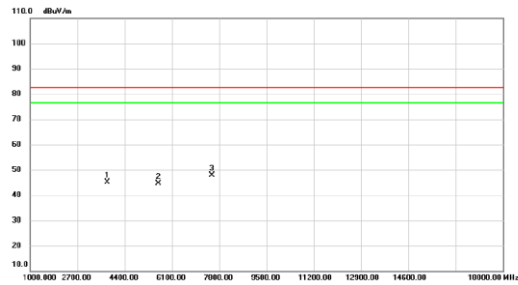
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *		3754.000	43.29	1.30	44.59	82.30	-37.71	peak	



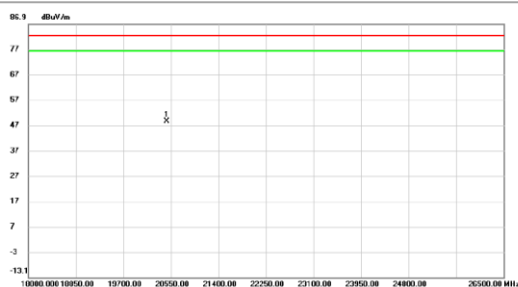
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *		20533.000	50.04	-0.44	49.60	82.30	-32.70	peak	

Test Mode : LTE Band 2\_TX CH18900\_20MHz

## Vertical



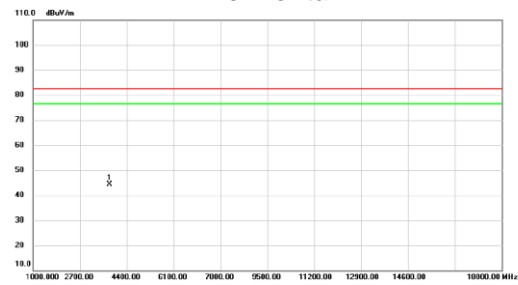
No. Mk.	Freq. MHz	Reading Level dBμV	Correct Factor dB	Measurement dBμV/m	Limit dBμV/m	Margin dB	Detector	Comment
1	3771.000	43.81	1.35	45.16	82.30	-37.14	peak	
2	5607.000	40.05	4.67	44.72	82.30	-37.58	peak	
3 *	7545.000	39.52	8.39	47.91	82.30	-34.39	peak	



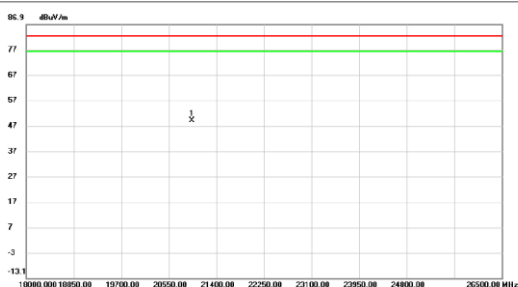
No. Mk.	Freq. MHz	Reading Level dBμV	Correct Factor dB	Measurement dBμV/m	Limit dBμV/m	Margin dB	Detector	Comment
1 *	20473.500	48.99	-0.49	48.50	82.30	-33.80	peak	

Test Mode : LTE Band 2\_TX CH18900\_20MHz

## Horizontal



No. Mk.	Freq. MHz	Reading Level dBμV	Correct Factor dB	Measurement dBμV/m	Limit dBμV/m	Margin dB	Detector	Comment
1 *	3771.000	43.12	1.35	44.47	82.30	-37.83	peak	



No. Mk.	Freq. MHz	Reading Level dBμV	Correct Factor dB	Measurement dBμV/m	Limit dBμV/m	Margin dB	Detector	Comment
1 *	20958.000	49.00	-0.08	48.92	82.30	-33.38	peak	

## APPENDIX G - BAND EDGE