



FCC Radio Test Report

FCC ID: 2A33X-QYXPRO

This report concerns: Original Grant

Project No. : 2409C081
System Name : QYX Pro
Brand Name : Qianxun SI
System Model Name : QYX Pro
Equipment : Automated Steering System
Test Model : QYX Pro receiver
Series Model : N/A
Applicant : Qianxun Spatial Intelligence(Zhejiang) Inc.
Address : No.1,Building12,Area C,Deqing Geographic Info Town,Wuyang Street,Deqing County,Huzhou City,Zhejiang Province,China
Manufacturer : Qianxun Spatial Intelligence(Zhejiang) Inc.
Address : No.1,Building12,Area C,Deqing Geographic Info Town,Wuyang Street,Deqing County,Huzhou City,Zhejiang Province,China
Date of Receipt : Sep. 24, 2024
Date of Test : Nov. 08, 2024 ~ Nov. 29, 2024
Issued Date : Dec. 02, 2024
Report Version : R00
Test Sample : Engineering Sample No.: DG2024092420, DG2024092421, DG2024092422 for radiated, DG2024092420 for conducted.
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.

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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.

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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.

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-4-2409C081	R00	Original Report.	Dec. 02, 2024	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 spurious emissions item:

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 , (dB)
DG-CB01	CISPR	9kHz ~ 30MHz	2.36

Test Site	Method	Measurement Frequency Range	Ant. H / V	U , (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 , (dB)
DG-CB03 (3m)	CISPR	1GHz ~ 6GHz	4.08
		6GHz ~ 18GHz	4.62

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

B. Other Measurement:

Parameter	Uncertainty
Spectrum Bandwidth	±1.74 dB
Maximum Output Power	±0.87 dB
Frequency Stability	±53.10Hz
Conducted Spurious Emissions	2.71 dB
Temperature	±0.48 °C
Humidity	±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	23°C	42%	DC 12V	Gavin Ge	Nov. 08, 2024 ~ Nov. 25, 2024
Occupied Bandwidth	23°C	42%	DC 12V	Gavin Ge	Nov. 08, 2024 ~ Nov. 25, 2024 Nov. 29, 2024
Conducted Spurious Emissions	23°C	42%	DC 12V	Gavin Ge	Nov. 08, 2024 ~ Nov. 25, 2024
Radiated Spurious Emissions (9 kHz to 30 MHz)	26°C	47%	AC 120V/60Hz	Hayden Chen	Nov. 18, 2024
Radiated Spurious Emissions (30 MHz to 1000 MHz)	22°C	50%	AC 120V/60Hz	Allen Tong	Nov. 19, 2024
	21°C	53%	AC 120V/60Hz	Allen Tong	Nov. 25, 2024
Radiated Spurious Emissions (Above 1000 MHz)	21-22°C	50-53%	AC 120V/60Hz	Allen Tong	Nov. 19, 2024 Nov. 22, 2024 ~ Nov. 26, 2024
Band Edge	23°C	42%	DC 12V	Gavin Ge	Nov. 08, 2024 ~ Nov. 25, 2024
Peak to Average Ratio	23°C	42%	DC 12V	Gavin Ge	Nov. 08, 2024 ~ Nov. 25, 2024 Nov. 28, 2024
Frequency Stability	Normal & Extreme	42%	Normal & Extreme	Gavin Ge	Nov. 08, 2024 ~ Nov. 25, 2024

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

System Name	QYX Pro			
Brand Name	Qianxun SI			
System Model Name	QYX Pro			
Equipment	Automated Steering System			
Test Model	QYX Pro receiver			
Series Model	N/A			
Model Difference(s)	N/A			
Power Source	DC Power Supply.			
Power Rating	DC 9V-36V			
LTE Category	Category 1			
IMEI No.	Radiated	863111060113389, 863111060112456, 863111060113330		
	Conducted	863111060113389		
Modulation Type	LTE		UL: QPSK,16QAM DL: QPSK,16QAM,64QAM	
Max. EIRP	LTE	Channel Bandwidth (MHz)	QPSK (dBm)	16QAM (dBm)
	Band 2	1.4	27.00	25.89
		3	27.08	26.28
		5	26.99	26.42
		10	27.00	26.13
		15	26.94	25.94
		20	26.63	26.11
	Band 25	1.4	26.08	25.36
		3	26.39	25.53
		5	26.12	25.59
		10	26.46	25.72
		15	26.91	26.11
		20	27.11	26.42

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 _{UL}	Frequency of Uplink (MHz)	N _{DL}	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

LTE Band 25(UL:1850-1915MHz, DL:1930-1995MHz)					
Test Frequency ID	Bandwidth (MHz)	N _{UL}	Frequency of Uplink (MHz)	N _{DL}	Frequency of Downlink (MHz)
Low Range	1.4	26047	1850.7	8047	1930.7
	3	26055	1851.5	8055	1931.5
	5	26065	1852.5	8065	1932.5
	10	26090	1855	8090	1935
	15	26115	1857.5	8115	1937.5
	20	26140	1860	8140	1940
Mid Range	1.4/3/5/10/15/20	26365	1882.5	8365	1962.5
High Range	1.4	26683	1914.3	8683	1994.3
	3	26675	1913.5	8675	1993.5
	5	26665	1912.5	8665	1992.5
	10	26640	1910	8640	1990
	15	26615	1907.5	8615	1987.5
	20	26590	1905	8590	1985

3. Table for Filed Antenna:

Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)	Note
Shanghai Saintenna Wireless Technology Co., Ltd.	QX-A960	PIFA	N/A	2	LTE Band 2
				2	LTE Band 25

Note: The antenna gain is provided by the manufacturer.

Equipment RF specification	Automated Steering System (Model: QYX Pro receiver)	Tablet (Model: S11)	Electric steering wheel (Model: ESW1)
GPS	support	/	/
Bluetooth(BT+BLE)	/	BT+BLE	BLE
WIFI	2.4G	2.4G	/
GSM	/	/	/
WCDMA	/	Band 2, 4, 5	/
LTE	Band 2, 4, 5, 7, 12, 13, 25, 26, 38, 41, 66	Band 2, 4, 5, 7, 12, 13, 25, 26, 38, 41	/

Note: The system (QYX Pro) consists of three parts, automated steering system (Model: QYX Pro receiver), electric steering wheel (Model: ESW1) and tablet (Model: S11).

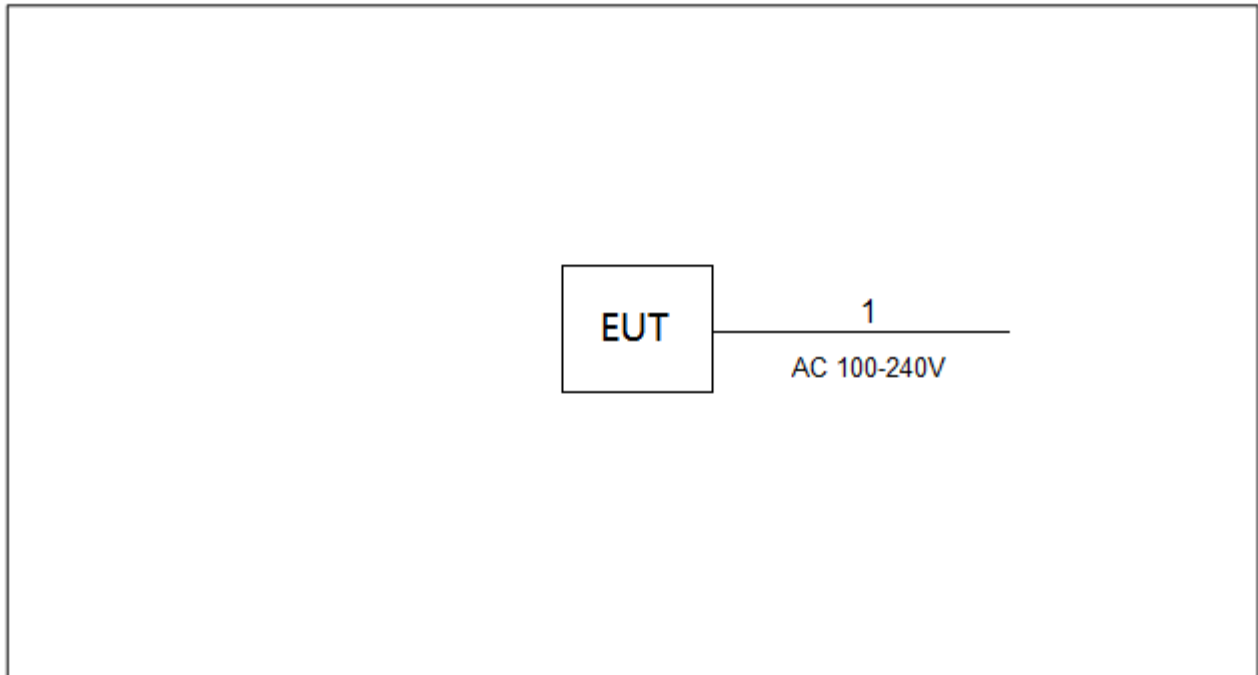
3.2 DESCRIPTION OF TEST MODES

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
	18675 to 19125	18675, 19125	15MHz	QPSK	1RB/75RB
	18700 to 19100	18700, 19100	20MHz	QPSK	1RB/100RB
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

LTE BAND 25 MODE					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & EIRP	26047 to 26683	26047, 26365, 22683	1.4MHz	QPSK, 16QAM	1RB/3RB/6RB
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM	1RB/8RB/15RB
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	1RB/12RB/25RB
	26090 to 26640	26090, 26365, 26640	10MHz	QPSK	1RB/25RB/50RB
				16QAM	1RB/25RB/27RB
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK	1RB/36RB/75RB
				16QAM	1RB/27RB
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK	1RB/50RB/100RB
				16QAM	1RB/27RB
Occupied Bandwidth	26047 to 26683	26047, 26365, 22683	1.4MHz	QPSK, 16QAM	6RB
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM	15RB
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	25RB
	26090 to 26640	26090, 26365, 26640	10MHz	QPSK	50RB
				16QAM	27RB
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK	75RB
				16QAM	27RB
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK	100RB
				16QAM	27RB
Conducted Spurious Emissions	26047 to 26683	26365	1.4MHz	QPSK	1RB
	26065 to 26665	26365	5MHz	QPSK	1RB
	26140 to 26590	26365	20MHz	QPSK	1RB
Radiated Spurious Emissions	26047 to 26683	26365	1.4MHz	QPSK	1RB
	26065 to 26665	26365	5MHz	QPSK	1RB
	26140 to 26590	26365	20MHz	QPSK	1RB
Band Edge	26047 to 26683	26047, 26683	1.4MHz	QPSK	1RB/6RB
	26055 to 26675	26055, 26675	3MHz	QPSK	1RB/15RB
	26065 to 26665	26065, 26665	5MHz	QPSK	1RB/25RB
	26090 to 26640	26090, 26640	10MHz	QPSK	1RB/50RB
	26115 to 26615	26115, 26615	15MHz	QPSK	1RB/75RB
	26140 to 26590	26140, 26590	20MHz	QPSK	1RB/100RB
Peak To Average Ratio	26047 to 26683	26047, 26365, 22683	1.4MHz	QPSK, 16QAM	1RB
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM	1RB
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	1RB
	26090 to 26640	26090, 26365, 26640	10MHz	QPSK, 16QAM	1RB
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM	1RB
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	1RB
Frequency Stability	26140 to 26590	26140, 26590	20MHz	QPSK	100RB

3.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



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.
-	-	-	-	-

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	AC Cable	NO	NO	0.67m

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.

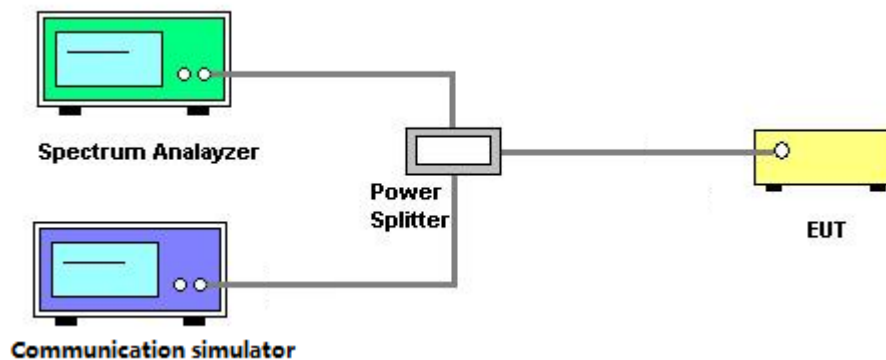
4.2 OCCUPIED BANDWIDTH MEASUREMENT

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. $RBW = (1\% \sim 5\%) \cdot EBW$
 $VBW \geq 3 \cdot RBW$
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

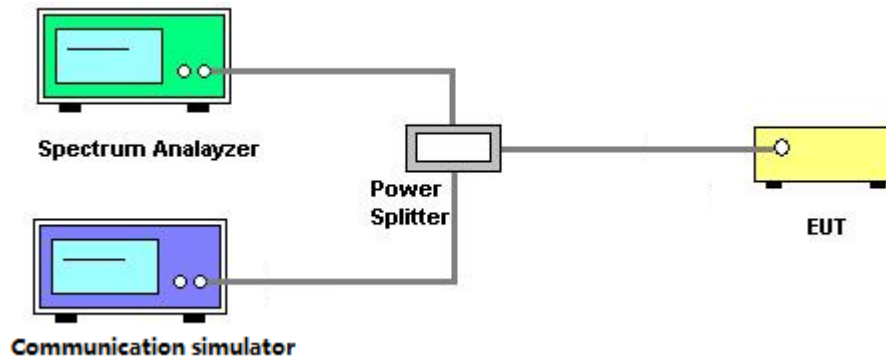
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm.

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.

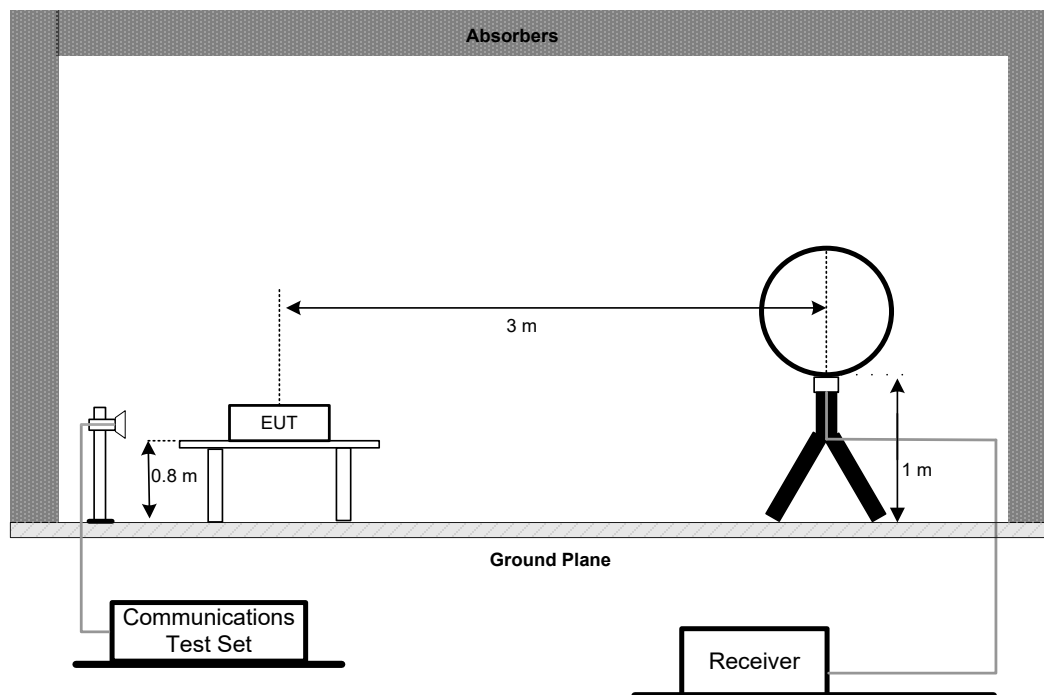
4.4.2 TEST PROCEDURES

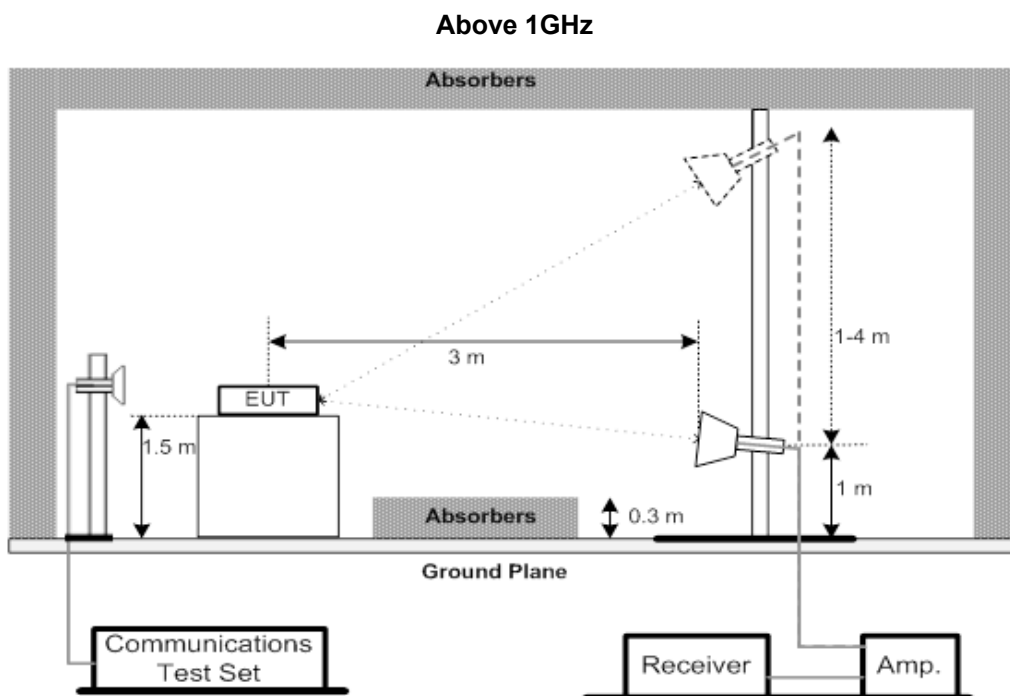
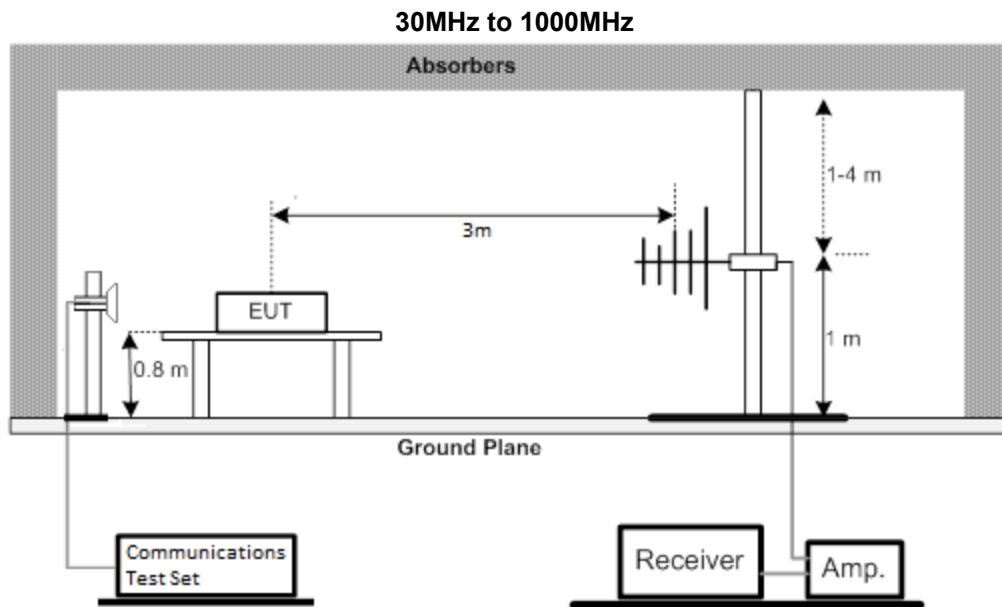
The testing follows FCC KDB 971168 v03r01 Section 6.2 or ANSI C63.26-2015 Section 5.5.

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° 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





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

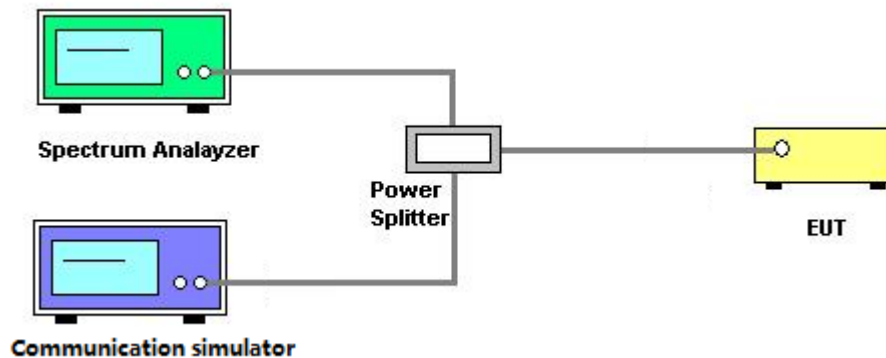
A Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the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

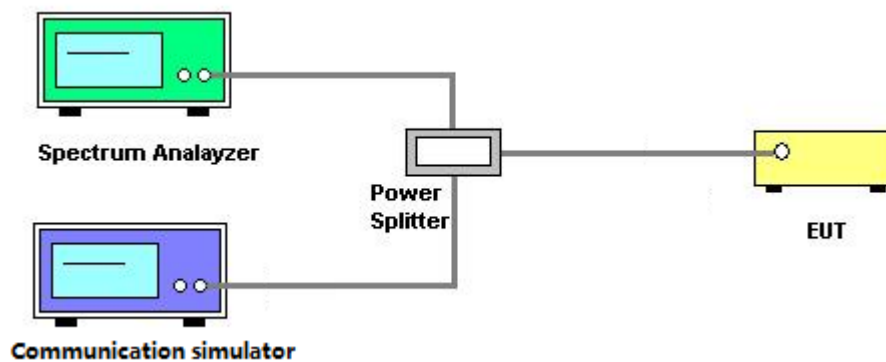
In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

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

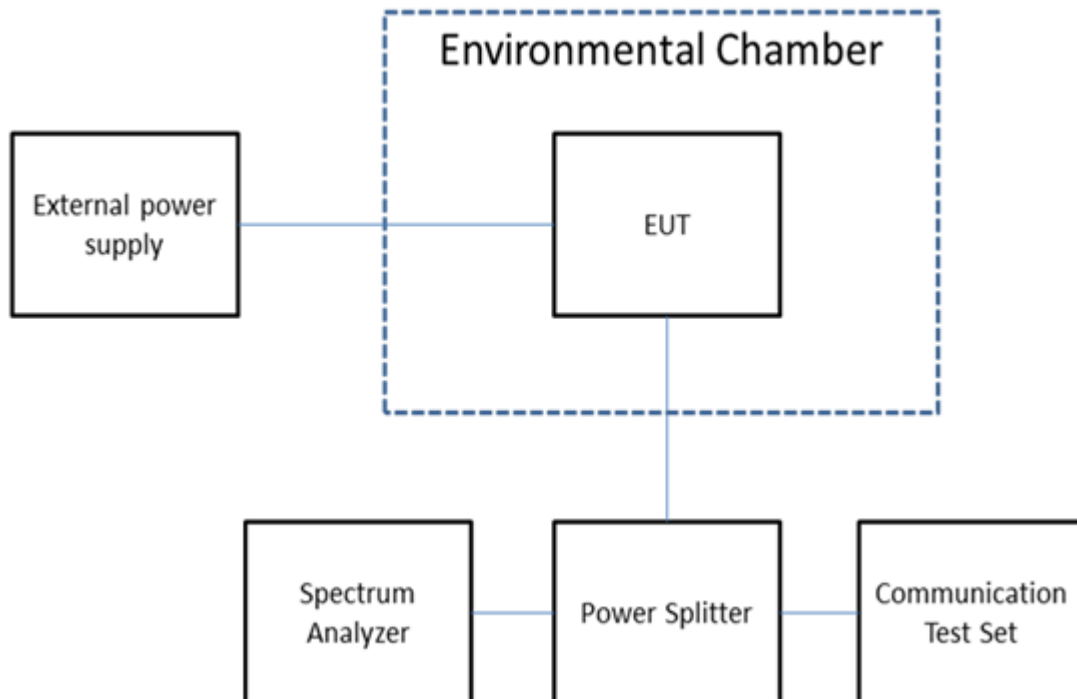
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

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 unwanted emissions specification of the applicable regulatory standard. These reference points measured using 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 1513-60B	1513-60 B-034	Mar. 30, 2025
2	MXE EMI Receiver	Keysight	N9038A	MY56400091	Dec. 22, 2024
3	Cable	N/A	RW4950-3.8A-N MSM-1.5	N/A	Nov. 12, 2025
4	Cable	N/A	LMR400-NMNM -8M	N/A	Nov. 12, 2025
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	966 Chamber room	ETS	9*6*6	N/A	May 16, 2025
7	wideband radio communication tester	R&S	CMW500	152372	Dec. 22, 2024

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. 13, 2024
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AT-06009	Dec. 13, 2024
3	Preamplifier	EMC INSTRUMENT	EMC001330	980998	May 31, 2025
4	Cable	RegalWay	LMR400-NMNM-12.5 m	N/A	Jun. 06, 2025
5	Cable	RegalWay	LMR400-NMNM-3m	N/A	Jun. 06, 2025
6	Cable	RegalWay	LMR400-NMNM-0.5 m	N/A	Jun. 06, 2025
7	Receiver	Agilent	N9038A	MY52130039	Dec. 22, 2024
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	966 Chamber room	CM	9*6*6	N/A	May 16, 2025
11	Broadband double ridged horn antenna	Regalway	RW10180-N	1911004	N/A
12	wideband radio communication tester	R&S	CMW500	152372	Dec. 22, 2024

Radiated Emissions - 1 GHz to 18GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Preamplifier	EMC INSTRUMENT	EMC118A45SE	980888	Oct.29,2025
2	Double Ridged Guide Antenna	ETS	3115	75789	Jun. 15, 2025
3	Cable	RegalWay	RWLP50-4.0A-SMS M-12.5M	N/A	Jul. 03, 2025
4	Cable	RegalWay	RWLP50-4.0A-NM RASM-2.5M	N/A	Jul. 03, 2025
5	Cable	RegalWay	RWLP50-4.0A-NM RASMRA-0.8M	N/A	Jul. 03, 2025
6	966 Chamber room	CM	9*6*6	N/A	May 19,2025
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	Filter	STI	STI15-9912	N/A	May 31, 2025
10	Broadband double ridged horn antenna	Regalway	RW10180-N	1911004	N/A
11	wideband radio communication tester	R&S	CMW500	152372	Dec. 22, 2024

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	May 19, 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	Broadband double ridged horn antenna	Regalway	RW10180-N	1911004	N/A
10	wideband radio communication tester	R&S	CMW500	152372	Dec. 22, 2024

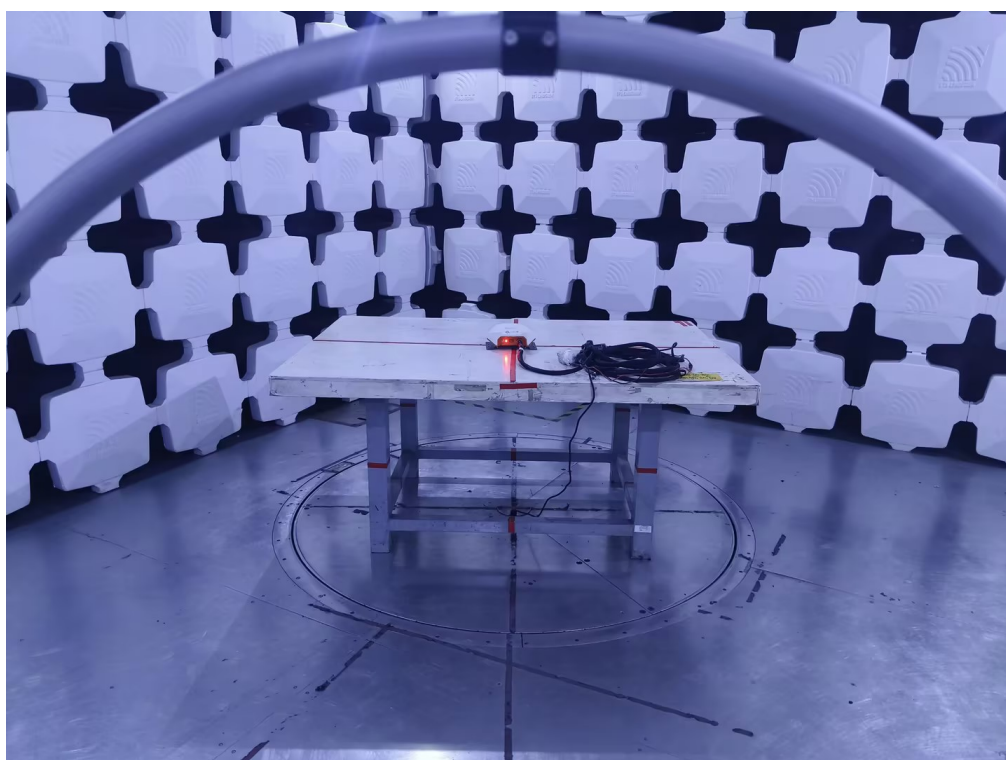
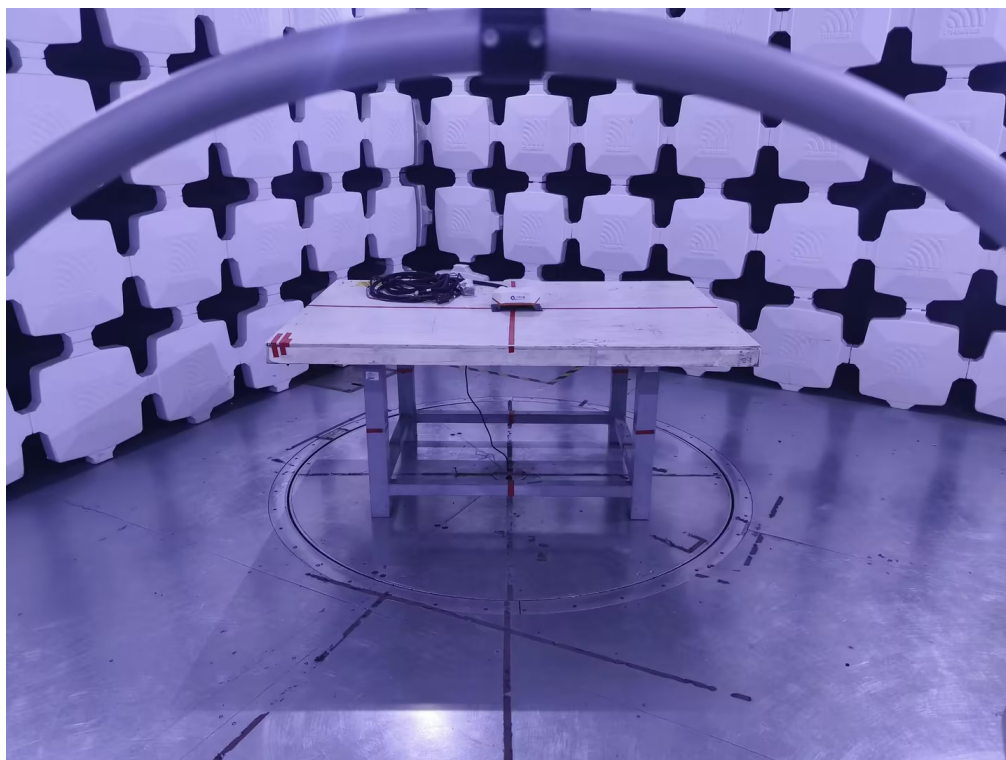
Conducted Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Temperature Chamber	ESPEC	SU-242	93018786	Jun. 28, 2025
2	Wideband Radio Communication Tester	R&S	CWM 500	165578	Jan. 19, 2025
3	MXA Signal Analyzer	Agilent Technologies	N9020A	MY49100060	Jun. 28, 2025
4	OUTPUT DC POWER SUPPLY	NA	IT6332C	803416011767330025	Jan. 19, 2025

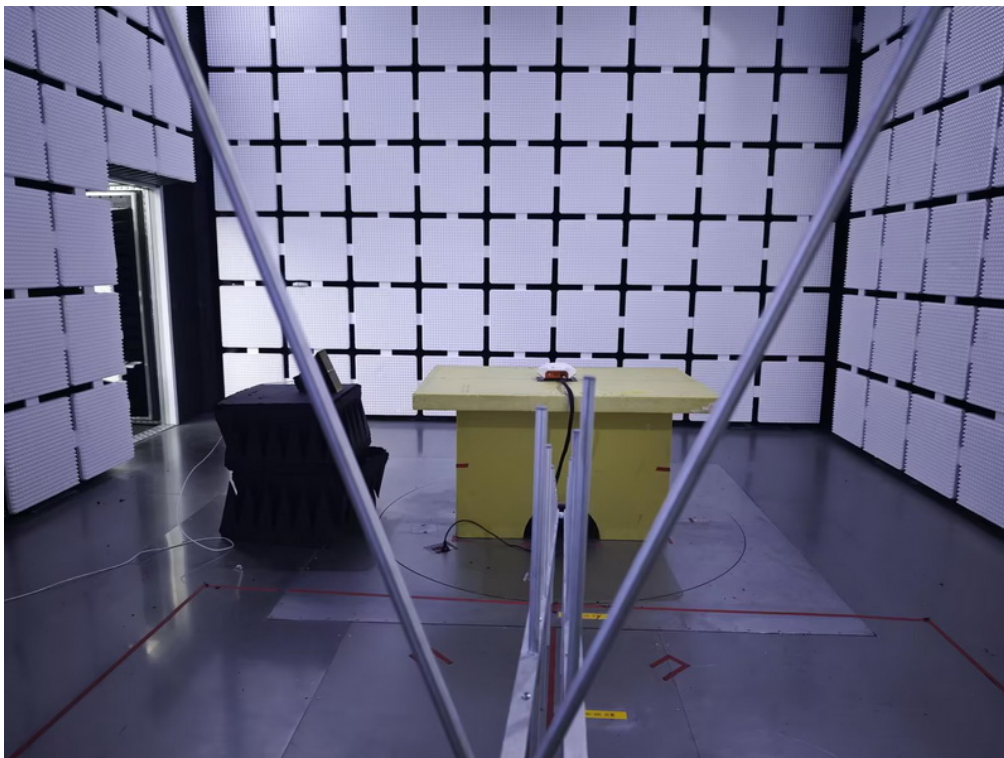
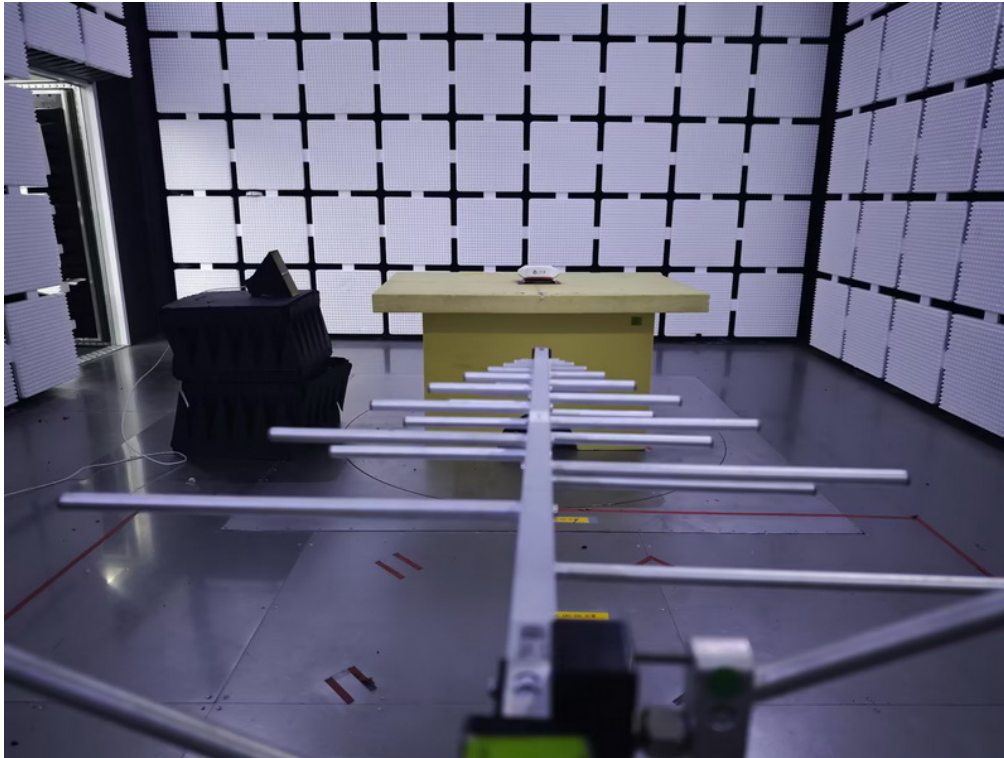
Remark: "N/A" denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

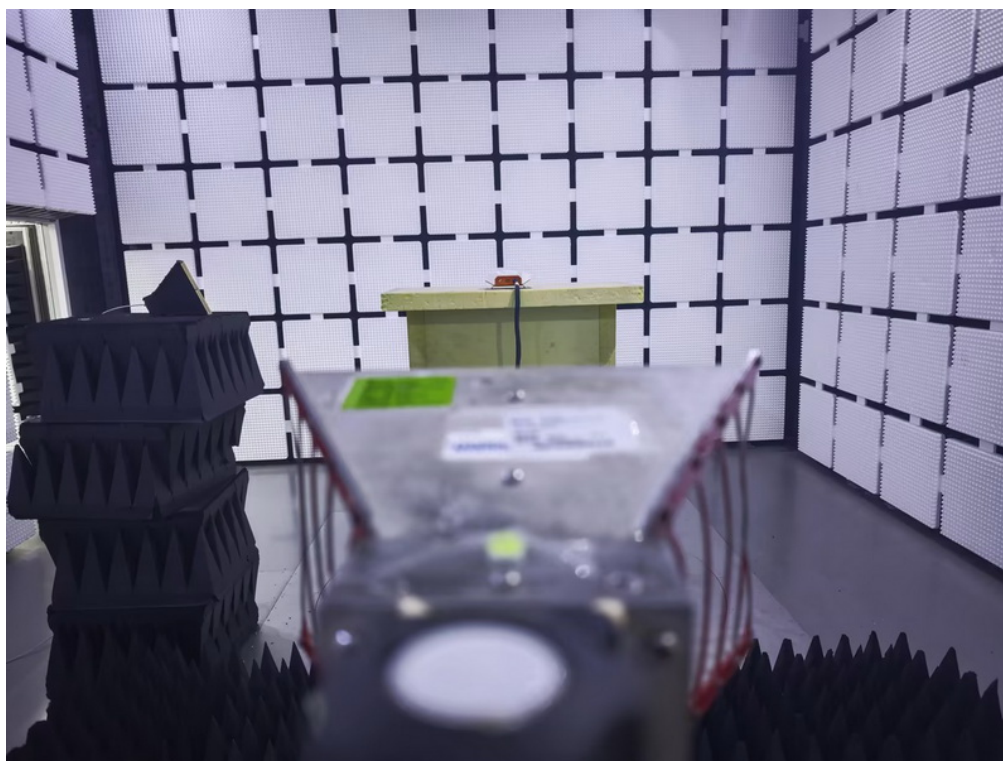
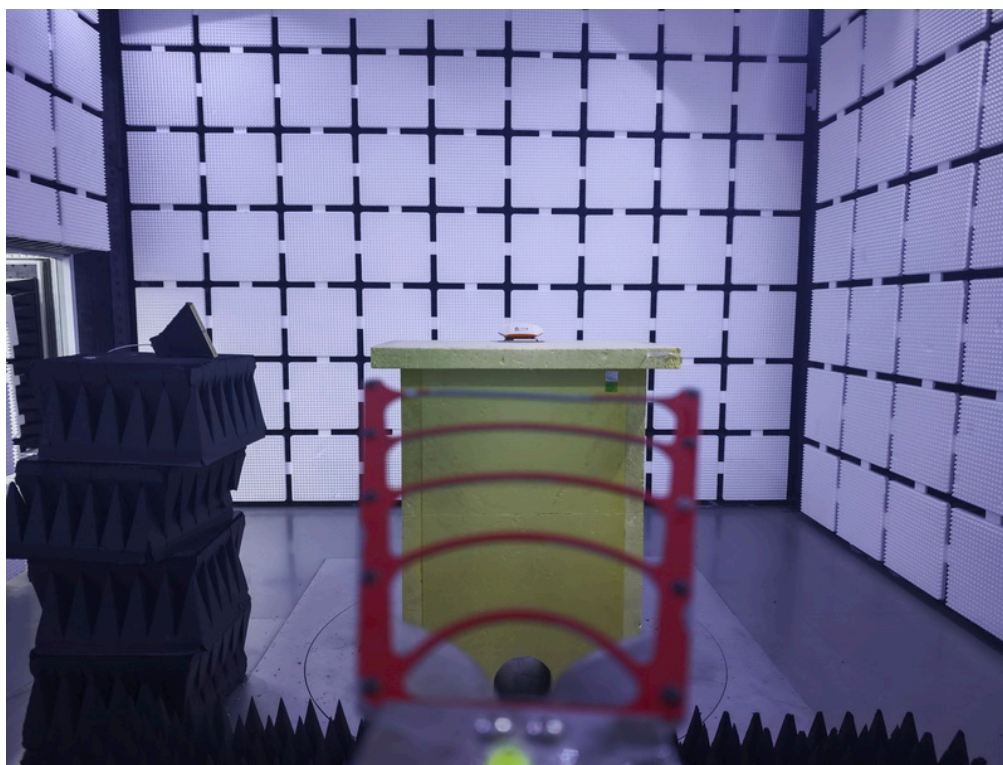
5. EUT TEST PHOTO

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 18GHz**

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	23.40	24.24	24.28
		1	2	23.81	25.00	24.63
		1	5	23.26	24.69	23.95
		3	0	23.76	24.53	24.54
		3	1	23.96	24.71	24.72
		3	2	23.27	24.66	24.22
		6	0	22.50	23.93	23.51
	16QAM	1	0	22.56	23.13	23.44
		1	2	22.92	23.88	23.68
		1	5	22.42	23.59	23.17
		3	0	22.71	23.52	23.73
		3	1	22.92	23.73	23.89
		3	2	22.24	23.74	23.16
		6	0	21.43	23.04	22.64

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	23.64	24.29	24.41
		1	7	24.07	25.08	24.91
		1	14	23.01	24.17	23.83
		8	0	22.21	23.64	23.46
		8	4	22.48	23.74	23.60
		8	7	22.22	23.44	23.24
		15	0	22.57	23.93	23.67
	16QAM	1	0	22.56	23.47	23.64
		1	7	22.84	24.28	23.89
		1	14	22.06	23.43	23.02
		8	0	21.31	22.77	22.55
		8	4	21.58	22.86	22.71
		8	7	21.28	22.54	22.34
		15	0	21.58	22.98	22.69

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	24.11	24.40	24.43
		1	13	23.88	24.99	24.72
		1	24	23.65	24.55	24.31
		12	0	22.68	23.40	23.41
		12	6	22.69	23.11	23.50
		12	11	22.72	24.01	23.90
		25	0	22.79	23.99	23.65
	16QAM	1	0	23.41	23.76	23.72
		1	13	22.91	24.42	23.87
		1	24	22.94	24.13	23.42
		12	0	21.74	22.57	22.59
		12	6	21.74	22.28	22.61
		12	11	21.80	23.20	22.93
		25	0	21.81	23.11	22.69

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	24.53	24.23	23.80
		1	25	24.37	25.00	23.90
		1	49	23.54	24.64	24.08
		25	0	23.67	23.49	23.06
		25	13	23.70	23.09	23.28
		25	25	22.78	23.82	23.63
		50	0	23.08	23.94	22.86
	16QAM	1	0	23.65	23.44	22.76
		1	25	23.43	24.13	23.02
		1	49	22.65	24.02	23.17
		25	0	22.64	22.67	22.30
		25	13	22.71	22.18	22.44
		25	25	21.91	22.89	22.79
		27	0	22.19	22.50	21.94

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	24.40	24.58	24.11
		1	38	24.12	24.94	24.30
		1	74	23.88	24.49	24.47
		36	0	23.70	23.78	22.99
		36	18	23.96	23.66	23.24
		36	39	23.24	23.52	23.98
		75	0	22.47	24.32	23.08
	16QAM	1	0	23.84	23.52	23.54
		1	38	23.32	23.93	23.66
		1	74	23.06	23.51	23.94
		27	0	22.55	22.90	22.05

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	24.55	24.35	24.61
		1	50	23.58	24.39	24.00
		1	99	24.18	24.63	24.42
		50	0	23.92	23.67	23.45
		50	25	23.73	23.49	23.26
		50	50	23.51	23.72	23.90
		100	0	22.01	23.24	24.51
	16QAM	1	0	24.06	23.76	23.97
		1	50	23.05	23.82	23.47
		1	99	23.51	24.11	23.90
		27	0	22.78	22.74	22.52

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26047CH	18900CH	26683CH
				1850.7MHz	1882.5MHz	1914.3MHz
25 / 1.4MHz	QPSK	1	0	23.56	23.75	22.57
		1	2	24.02	23.93	22.89
		1	5	23.23	23.29	22.40
		3	0	23.84	23.90	22.77
		3	1	24.05	24.08	22.92
		3	2	23.41	23.28	22.39
		6	0	22.59	22.85	21.84
	16QAM	1	0	22.73	22.80	21.68
		1	2	23.17	22.98	22.02
		1	5	22.53	22.36	21.56
		3	0	22.95	23.16	21.79
		3	1	23.17	23.36	21.96
		3	2	22.60	22.58	21.44
		6	0	21.56	22.11	21.06

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26055CH	18900CH	26675CH
				1851.5MHz	1882.5MHz	1913.5MHz
25 / 3MHz	QPSK	1	0	23.86	24.00	23.16
		1	7	24.39	24.15	23.34
		1	14	23.20	23.46	22.36
		8	0	22.53	22.66	21.81
		8	4	22.79	22.77	21.97
		8	7	22.52	22.47	21.59
		15	0	22.75	22.96	22.12
	16QAM	1	0	22.86	23.25	22.36
		1	7	23.24	23.53	22.38
		1	14	22.25	22.76	21.48
		8	0	21.65	21.78	20.97
		8	4	21.91	21.89	21.12
		8	7	21.63	21.58	20.75
		15	0	21.76	22.02	21.21

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26065CH	18900CH	26665CH
				1852.5MHz	1882.5MHz	1912.5MHz
25 / 5MHz	QPSK	1	0	24.09	24.12	24.02
		1	13	23.97	23.72	23.27
		1	24	23.74	24.07	23.05
		12	0	22.77	22.87	22.66
		12	6	22.77	22.57	22.21
		12	11	22.70	22.93	22.26
		25	0	22.75	22.79	22.34
	16QAM	1	0	23.26	23.53	23.27
		1	13	23.01	23.28	22.35
		1	24	22.97	23.59	22.22
		12	0	21.84	22.08	21.85
		12	6	21.86	21.79	21.40
		12	11	21.78	22.16	21.45
		25	0	21.77	21.94	21.45

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26090CH	18900CH	26640CH
				1855MHz	1882.5MHz	1910MHz
25 / 10MHz	QPSK	1	0	24.46	23.66	24.42
		1	25	24.18	23.75	24.46
		1	49	23.52	23.62	23.12
		25	0	23.66	22.20	23.62
		25	13	23.70	21.63	22.97
		25	25	22.97	22.52	23.17
		50	0	23.16	22.89	23.77
	16QAM	1	0	23.43	22.99	23.68
		1	25	23.03	23.11	23.72
		1	49	22.31	22.93	22.23
		25	0	22.49	21.28	22.81
		25	13	22.55	20.71	22.19
		25	25	22.00	21.62	22.22
		27	0	22.16	21.96	22.75

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26115CH	18900CH	26615CH
				1857.5MHz	1882.5MHz	1907.5MHz
25 / 15MHz	QPSK	1	0	24.62	23.26	23.86
		1	38	24.30	23.89	24.91
		1	74	23.95	23.78	23.31
		36	0	23.76	22.39	23.71
		36	18	24.01	21.87	23.93
		36	39	23.30	23.03	23.81
		75	0	22.66	23.96	23.62
	16QAM	1	0	24.11	22.72	22.93
		1	38	23.44	23.42	24.00
		1	74	23.17	23.24	22.45
		27	0	22.65	21.48	22.88

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26140CH	18900CH	26590CH
				1860MHz	1882.5MHz	1905MHz
25 / 20MHz	QPSK	1	0	24.65	23.44	24.43
		1	50	23.77	23.88	25.11
		1	99	24.12	23.80	23.42
		50	0	24.04	22.70	23.58
		50	25	24.10	21.83	24.05
		50	50	23.55	23.25	24.25
		100	0	23.37	23.38	22.84
	16QAM	1	0	24.12	22.94	23.76
		1	50	23.25	23.39	24.42
		1	99	23.56	23.26	23.01
		27	0	22.97	21.81	22.70

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	25.40	26.24	26.28
		1	2	25.81	27.00	26.63
		1	5	25.26	26.69	25.95
		3	0	25.76	26.53	26.54
		3	1	25.96	26.71	26.72
		3	2	25.27	26.66	26.22
		6	0	24.50	25.93	25.51
	16QAM	1	0	24.56	25.13	25.44
		1	2	24.92	25.88	25.68
		1	5	24.42	25.59	25.17
		3	0	24.71	25.52	25.73
		3	1	24.92	25.73	25.89
		3	2	24.24	25.74	25.16
		6	0	23.43	25.04	24.64

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	25.64	26.29	26.41
		1	7	26.07	27.08	26.91
		1	14	25.01	26.17	25.83
		8	0	24.21	25.64	25.46
		8	4	24.48	25.74	25.60
		8	7	24.22	25.44	25.24
		15	0	24.57	25.93	25.67
	16QAM	1	0	24.56	25.47	25.64
		1	7	24.84	26.28	25.89
		1	14	24.06	25.43	25.02
		8	0	23.31	24.77	24.55
		8	4	23.58	24.86	24.71
		8	7	23.28	24.54	24.34
		15	0	23.58	24.98	24.69

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	26.11	26.40	26.43
		1	13	25.88	26.99	26.72
		1	24	25.65	26.55	26.31
		12	0	24.68	25.40	25.41
		12	6	24.69	25.11	25.50
		12	11	24.72	26.01	25.90
		25	0	24.79	25.99	25.65
	16QAM	1	0	25.41	25.76	25.72
		1	13	24.91	26.42	25.87
		1	24	24.94	26.13	25.42
		12	0	23.74	24.57	24.59
		12	6	23.74	24.28	24.61
		12	11	23.80	25.20	24.93
		25	0	23.81	25.11	24.69

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	26.53	26.23	25.80
		1	25	26.37	27.00	25.90
		1	49	25.54	26.64	26.08
		25	0	25.67	25.49	25.06
		25	13	25.70	25.09	25.28
		25	25	24.78	25.82	25.63
		50	0	25.08	25.94	24.86
	16QAM	1	0	25.65	25.44	24.76
		1	25	25.43	26.13	25.02
		1	49	24.65	26.02	25.17
		25	0	24.64	24.67	24.30
		25	13	24.71	24.18	24.44
		25	25	23.91	24.89	24.79
		27	0	24.19	24.50	23.94

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	26.40	26.58	26.11
		1	38	26.12	26.94	26.30
		1	74	25.88	26.49	26.47
		36	0	25.70	25.78	24.99
		36	18	25.96	25.66	25.24
		36	39	25.24	25.52	25.98
		75	0	24.47	26.32	25.08
	16QAM	1	0	25.84	25.52	25.54
		1	38	25.32	25.93	25.66
		1	74	25.06	25.51	25.94
		27	0	24.55	24.90	24.05

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	26.55	26.35	26.61
		1	50	25.58	26.39	26.00
		1	99	26.18	26.63	26.42
		50	0	25.92	25.67	25.45
		50	25	25.73	25.49	25.26
		50	50	25.51	25.72	25.90
		100	0	24.01	25.24	26.51
	16QAM	1	0	26.06	25.76	25.97
		1	50	25.05	25.82	25.47
		1	99	25.51	26.11	25.90
		27	0	24.78	24.74	24.52

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26047CH	18900CH	26683CH
				1850.7MHz	1882.5MHz	1914.3MHz
25 / 1.4MHz	QPSK	1	0	25.56	25.75	24.57
		1	2	26.02	25.93	24.89
		1	5	25.23	25.29	24.4
		3	0	25.84	25.9	24.77
		3	1	26.05	26.08	24.92
		3	2	25.41	25.28	24.39
		6	0	24.59	24.85	23.84
	16QAM	1	0	24.73	24.8	23.68
		1	2	25.17	24.98	24.02
		1	5	24.53	24.36	23.56
		3	0	24.95	25.16	23.79
		3	1	25.17	25.36	23.96
		3	2	24.6	24.58	23.44
		6	0	23.56	24.11	23.06

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26055CH	18900CH	26675CH
				1851.5MHz	1882.5MHz	1913.5MHz
25 / 3MHz	QPSK	1	0	25.86	26	25.16
		1	7	26.39	26.15	25.34
		1	14	25.2	25.46	24.36
		8	0	24.53	24.66	23.81
		8	4	24.79	24.77	23.97
		8	7	24.52	24.47	23.59
		15	0	24.75	24.96	24.12
	16QAM	1	0	24.86	25.25	24.36
		1	7	25.24	25.53	24.38
		1	14	24.25	24.76	23.48
		8	0	23.65	23.78	22.97
		8	4	23.91	23.89	23.12
		8	7	23.63	23.58	22.75
		15	0	23.76	24.02	23.21

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26065CH	18900CH	26665CH
				1852.5MHz	1882.5MHz	1912.5MHz
25 / 5MHz	QPSK	1	0	26.09	26.12	26.02
		1	13	25.97	25.72	25.27
		1	24	25.74	26.07	25.05
		12	0	24.77	24.87	24.66
		12	6	24.77	24.57	24.21
		12	11	24.7	24.93	24.26
		25	0	24.75	24.79	24.34
	16QAM	1	0	25.26	25.53	25.27
		1	13	25.01	25.28	24.35
		1	24	24.97	25.59	24.22
		12	0	23.84	24.08	23.85
		12	6	23.86	23.79	23.4
		12	11	23.78	24.16	23.45
		25	0	23.77	23.94	23.45

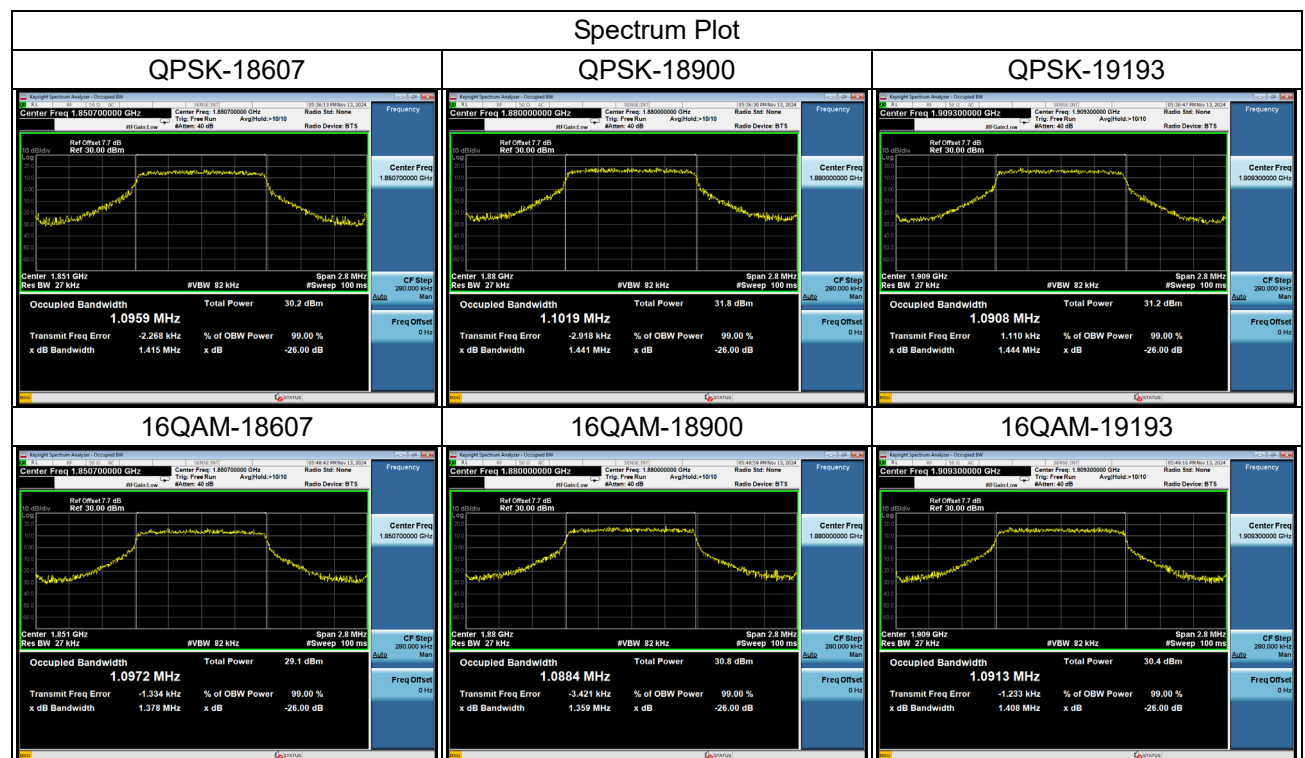
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26090CH	18900CH	26640CH
				1855MHz	1882.5MHz	1910MHz
25 / 10MHz	QPSK	1	0	26.46	25.66	26.42
		1	25	26.18	25.75	26.46
		1	49	25.52	25.62	25.12
		25	0	25.66	24.2	25.62
		25	13	25.7	23.63	24.97
		25	25	24.97	24.52	25.17
		50	0	25.16	24.89	25.77
	16QAM	1	0	25.43	24.99	25.68
		1	25	25.03	25.11	25.72
		1	49	24.31	24.93	24.23
		25	0	24.49	23.28	24.81
		25	13	24.55	22.71	24.19
		25	25	24	23.62	24.22
		27	0	24.16	23.96	24.75

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26115CH	18900CH	26615CH
				1857.5MHz	1882.5MHz	1907.5MHz
25 / 15MHz	QPSK	1	0	26.62	25.26	25.86
		1	38	26.3	25.89	26.91
		1	74	25.95	25.78	25.31
		36	0	25.76	24.39	25.71
		36	18	26.01	23.87	25.93
		36	39	25.3	25.03	25.81
		75	0	24.66	25.96	25.62
	16QAM	1	0	26.11	24.72	24.93
		1	38	25.44	25.42	26
		1	74	25.17	25.24	24.45
		27	0	24.65	23.48	24.88

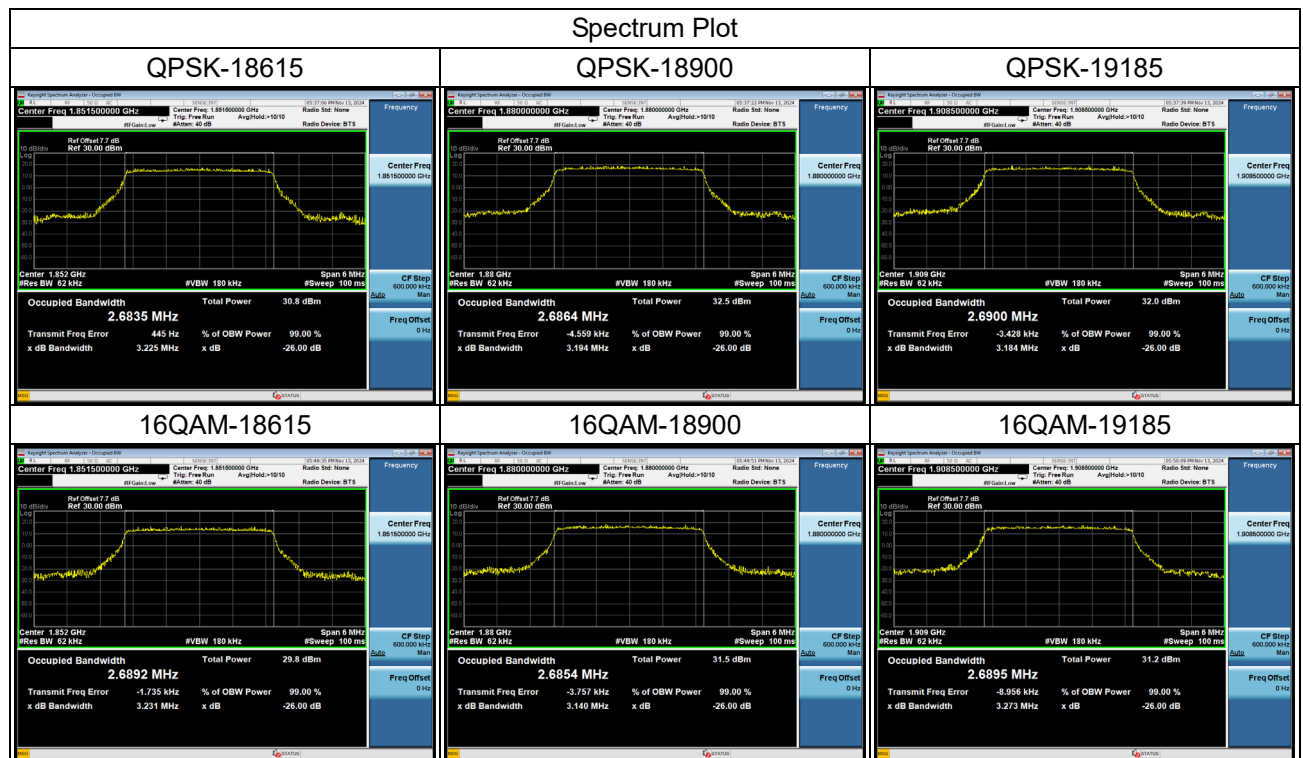
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26140CH	18900CH	26590CH
				1860MHz	1882.5MHz	1905MHz
25 / 20MHz	QPSK	1	0	26.65	25.44	26.43
		1	50	25.77	25.88	27.11
		1	99	26.12	25.8	25.42
		50	0	26.04	24.7	25.58
		50	25	26.1	23.83	26.05
		50	50	25.55	25.25	26.25
		100	0	25.37	25.38	24.84
	16QAM	1	0	26.12	24.94	25.76
		1	50	25.25	25.39	26.42
		1	99	25.56	25.26	25.01
		27	0	24.97	23.81	24.7

APPENDIX B - OCCUPIED BANDWIDTH

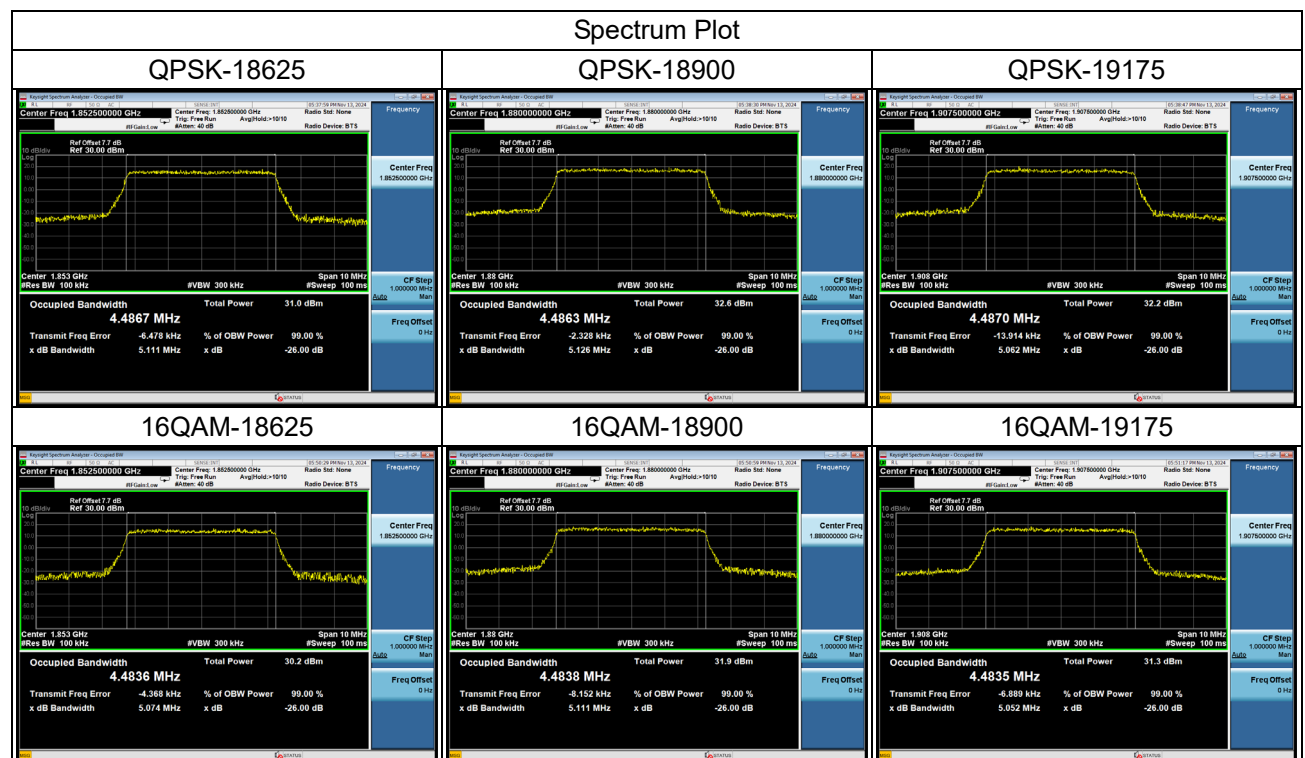
LTE Band 2_1.4MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
18607	1850.7	1.0959	1.0972	1.415	1.378
18900	1880	1.1019	1.0884	1.441	1.359
19193	1909.3	1.0908	1.0913	1.444	1.408



LTE Band 2_3MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
18615	1851.5	2.6835	2.6892	3.225	3.231
18900	1880	2.6864	2.6854	3.194	3.140
19185	1908.5	2.6900	2.6895	3.184	3.273



LTE Band 2_5MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
18625	1852.5	4.4867	4.4836	5.111	5.074
18900	1880	4.4863	4.4838	5.126	5.111
19175	1907.5	4.4870	4.4835	5.062	5.052



LTE Band 2_10MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
18650	1855	8.9390	5.1248	9.644	9.083
18900	1880	8.9292	5.1334	9.677	7.515
19150	1905	8.9102	4.4954	9.638	5.388

