



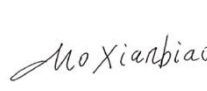
Test Report No.:
FCCSZ2024-0064-RF5

RF Test Report

FCC ID : 2BHTA-AIR2453
EUT : iFLYTEK AI Recorder S6
MODEL : AIR2453
BRAND NAME : iFLYTEK
APPLICANT : SYNLAN TECHNOLOGY PTE. LTD.
Classification Of Test : Commission Test

CVC Testing Technology Co., Ltd.



Applicant		Name: SYNLAN TECHNOLOGY PTE. LTD. Address: 7 TEMASEK BOULEVARD #29-01D SUNTEC TOWER ONE SINGAPORE (038987)	
Manufacturer		Name: SYNLAN TECHNOLOGY PTE. LTD. Address: 7 TEMASEK BOULEVARD #29-01D SUNTEC TOWER ONE SINGAPORE (038987)	
Equipment Under Test		Product Name: iFLYTEK AI Recorder S6 Model/Type: AIR2453 Brand Name: iFLYTEK Serial NO.: 7-1 Sample NO.: N/A	
Date of Receipt.	2024-08-26	Date of Testing	2024-08-26 ~ 2024-09-29
Test Specification		Test Result	
47 CFR Part 2, 22, 24, 27 27 ANSI C63.26-2015		PASS	
Evaluation of Test Result		The equipment under test was found to comply with the requirements of the standards applied. Seal of CVC Issue Date: 2024-09-30	
Compiled by:  <u>Liang Jiatong</u> Name Signature	Reviewed by:  <u>Mo Xianbiao</u> Name Signature	Approved by:  <u>Dong Sanbi</u> Name Signature	
Other Aspects: NONE.			
Abbreviations: OK, Pass= passed Fail = failed N/A= not applicable EUT= equipment, sample(s) under tested			

This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FCCSZ2024-0064-RF5	Original release	2024-09-30



1 SUMMARY OF TEST RESULTS AND LIMIT

1.1 NR N2

FCC PART SECTION	TEST TYPE AND LIMIT	LIMIT	Report Section	RESULT
§2.1046	Conducted power output	---	Annex A of FCCSZ2024-0064-RF5-A1	Report Only
§24.232(c)	Equivalent Isotropic Radiated Power	EIRP < 2Watt	Annex A of FCCSZ2024-0064-RF5-A1	PASS
§2.1049	Occupied Bandwidth	---	Annex C of FCCSZ2024-0064-RF5-A1	Report Only
---	Peak-to-Average Power Ratio	<13 dB	Annex B of FCCSZ2024-0064-RF5-A1	PASS
§2.1055 24.235	Frequency Stability	Within authorized bands of operation/frequency block.	Annex F of FCCSZ2024-0064-RF5-A1	PASS
§2.1051 §24.238(a)	Band Edge Compliance	< 43+10log10(P[Watts])	Annex D of FCCSZ2024-0064-RF5-A1	PASS
§2.1051 §24.238(a)	Conducted Spurious Emission	< 43+10log10(P[Watts])	Annex E of FCCSZ2024-0064-RF5-A1	PASS
§2.1051 §24.238(a)	Radiates Spurious Emission	< 43+10log10(P[Watts])	See section 3.1	PASS

1.2 NR N5

FCC PART SECTION	TEST TYPE AND LIMIT	LIMIT	Report Section	RESULT
§2.1046	Conducted power output	---	Annex A of FCCSZ2024-0064-RF5-A2	Report Only
§22.913(a)(5)	Equivalent Radiated Power	ERP < 7Watt	Annex A of FCCSZ2024-0064-RF5-A2	PASS
§2.1049	Occupied Bandwidth	---	Annex C of FCCSZ2024-0064-RF5-A2	Report Only
---	Peak-to-Average Power Ratio	<13 dB	Annex B of FCCSZ2024-0064-RF5-A2	PASS
§2.1055 §22.355	Frequency Stability	< 2.5 ppm	Annex F of FCCSZ2024-0064-RF5-A2	PASS
§2.1051 §22.917	Band Edge Compliance	< 43+10log10(P[Watts])	Annex D of FCCSZ2024-0064-RF5-A2	PASS
§2.1051 §22.917	Conducted Spurious Emission	< 43+10log10(P[Watts])	Annex E of FCCSZ2024-0064-RF5-A2	PASS
§2.1051 §22.917	Radiates Spurious Emission	< 43+10log10(P[Watts])	See section 3.1	PASS



1.3 NR N7

FCC PART SECTION	TEST TYPE AND LIMIT	LIMIT	Report Section	RESULT
§2.1046	Conducted power output	---	Annex A of FCCSZ2024-0064-RF5-A3	Report Only
§27.50(h)(2)	Equivalent Isotropic Radiated Power	EIRP < 2Watt	Annex A of FCCSZ2024-0064-RF5-A3	PASS
§2.1049	Occupied Bandwidth	>1MHz	Annex C of FCCSZ2024-0064-RF5-A3	PASS
---	Peak-to-Average Power Ratio	<13 dB	Annex B of FCCSZ2024-0064-RF5-A3	PASS
§2.1055 §27.54	Frequency Stability	Within authorized bands of operation/frequency block.	Annex F of FCCSZ2024-0064-RF5-A3	PASS
§2.1051 §27.53(m4)	Band Edge Compliance	For mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least: (i) 40 + 10 log ₁₀ p from the channel edges to 5 MHz away (ii) 43 + 10 log ₁₀ p between 5 MHz and X MHz from the channel edges, and (iii) 55 + 10 log ₁₀ p at X MHz and beyond from the channel edges In addition, the attenuation shall not be less than 43 + 10 log(p) on all frequencies between 2490.5 MHz and 2496 MHz, and 55 + 10 log ₁₀ p at or below 2490.5 MHz	Annex D of FCCSZ2024-0064-RF5-A3	PASS
§2.1051 §27.53(m4)	Conducted Spurious Emission		Annex E of FCCSZ2024-0064-RF5-A3	PASS
§2.1051 §27.53(m4)	Radiates Spurious Emission		See section 3.1	PASS



1.4 NR N38

FCC PART SECTION	TEST TYPE AND LIMIT	LIMIT	Report Section	RESULT
§2.1046	Conducted power output	---	Annex A of FCCSZ2024-0064-RF5-A4	Report Only
§27.50(h)(2)	Equivalent Isotropic Radiated Power	EIRP < 2Watt	Annex A of FCCSZ2024-0064-RF5-A4	PASS
§2.1049	Occupied Bandwidth	>1MHz	Annex C of FCCSZ2024-0064-RF5-A4	PASS
---	Peak-to-Average Power Ratio	<13 dB	Annex B of FCCSZ2024-0064-RF5-A4	PASS
§2.1055 §27.54	Frequency Stability	Within authorized bands of operation/frequency block.	Annex F of FCCSZ2024-0064-RF5-A4	PASS
§2.1051 §27.53(m4)	Band Edge Compliance	For mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least: (i) 40 + 10 log ₁₀ p from the channel edges to 5 MHz away (ii) 43 + 10 log ₁₀ p between 5 MHz and X MHz from the channel edges, and (iii) 55 + 10 log ₁₀ p at X MHz and beyond from the channel edges In addition, the attenuation shall not be less than 43 + 10 log(p) on all frequencies between 2490.5 MHz and 2496 MHz, and 55 + 10 log ₁₀ p at or below 2490.5 MHz	Annex D of FCCSZ2024-0064-RF5-A4	PASS
§2.1051 §27.53(m4)	Conducted Spurious Emission		Annex E of FCCSZ2024-0064-RF5-A4	PASS
§2.1051 §27.53(m4)	Radiates Spurious Emission		See section 3.1	PASS



1.5 NR N41

FCC PART SECTION	TEST TYPE AND LIMIT	LIMIT	Report Section	RESULT
§2.1046	Conducted power output	---	Annex A of FCCSZ2024-0064-RF5-A5	Report Only
§27.50(h)(2)	Equivalent Isotropic Radiated Power	EIRP < 2Watt	Annex A of FCCSZ2024-0064-RF5-A5	PASS
§2.1049	Occupied Bandwidth	>1MHz	Annex C of FCCSZ2024-0064-RF5-A5	PASS
---	Peak-to-Average Power Ratio	<13 dB	Annex B of FCCSZ2024-0064-RF5-A5	PASS
§2.1055 §27.54	Frequency Stability	Within authorized bands of operation/frequency block.	Annex F of FCCSZ2024-0064-RF5-A5	PASS
§2.1051 §27.53(m4)	Band Edge Compliance	For mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least: (i) 40 + 10 log ₁₀ p from the channel edges to 5 MHz away (ii) 43 + 10 log ₁₀ p between 5 MHz and X MHz from the channel edges, and (iii) 55 + 10 log ₁₀ p at X MHz and beyond from the channel edges In addition, the attenuation shall not be less than 43 + 10 log(p) on all frequencies between 2490.5 MHz and 2496 MHz, and 55 + 10 log ₁₀ p at or below 2490.5 MHz	Annex D of FCCSZ2024-0064-RF5-A5	PASS
§2.1051 §27.53(m4)	Conducted Spurious Emission		Annex E of FCCSZ2024-0064-RF5-A5	PASS
§2.1051 §27.53(m4)	Radiates Spurious Emission		See section 3.1	PASS



1.6 NR N77(3450~3550MHZ)

FCC PART SECTION	TEST TYPE AND LIMIT	LIMIT	Report Section	RESULT
§2.1046	Conducted power output	---	Annex A of FCCSZ2024-0064-RF5-A6	Report Only
§27.50(k)(3)	Equivalent Isotropic Radiated Power	EIRP < 1Watt	Annex A of FCCSZ2024-0064-RF5-A6	PASS
§2.1049	Occupied Bandwidth	---	Annex C of FCCSZ2024-0064-RF5-A6	Report Only
---	Peak-to-Average Power Ratio	<13 dB	Annex B of FCCSZ2024-0064-RF5-A6	PASS
§2.1055 §27.54	Frequency Stability	Within authorized bands of operation/frequency block.	Annex F of FCCSZ2024-0064-RF5-A6	PASS
§2.1051 §27.50(n)(2)	Band Edge Compliance	< 43+10log10(P[Watts])	Annex D of FCCSZ2024-0064-RF5-A6	PASS
§2.1051 §27.50(n)(2)	Conducted Spurious Emission	< 43+10log10(P[Watts])	Annex E of FCCSZ2024-0064-RF5-A6	PASS
§2.1051 §27.50(n)(2)	Radiates Spurious Emission	< 43+10log10(P[Watts])	See section 3.1	PASS

1.7 NR N77(3700~3980MHZ)

FCC PART SECTION	TEST TYPE AND LIMIT	LIMIT	Report Section	RESULT
§2.1046	Conducted power output	---	Annex A of FCCSZ2024-0064-RF5-A7	Report Only
§27.50(j)(3)	Equivalent Isotropic Radiated Power	EIRP < 1Watt	Annex A of FCCSZ2024-0064-RF5-A7	PASS
§2.1049	Occupied Bandwidth	---	Annex C of FCCSZ2024-0064-RF5-A7	Report Only
---	Peak-to-Average Power Ratio	<13 dB	Annex B of FCCSZ2024-0064-RF5-A7	PASS
§2.1055 §27.54	Frequency Stability	Within authorized bands of operation/frequency block.	Annex F of FCCSZ2024-0064-RF5-A7	PASS
§2.1051 §27.53(l)(2)	Band Edge Compliance	< 43+10log10(P[Watts])	Annex D of FCCSZ2024-0064-RF5-A7	PASS
§2.1051 §27.53(l)(2)	Conducted Spurious Emission	< 43+10log10(P[Watts])	Annex E of FCCSZ2024-0064-RF5-A7	PASS
§2.1051 §27.53(l)(2)	Radiates Spurious Emission	< 43+10log10(P[Watts])	See section 3.1	PASS

**1.8 NR N78(3450~3550MHZ)**

FCC PART SECTION	TEST TYPE AND LIMIT	LIMIT	Report Section	RESULT
§2.1046	Conducted power output	---	Annex A of FCCSZ2024-0064-RF5-A8	Report Only
§27.50(k)(3)	Equivalent Isotropic Radiated Power	EIRP < 1Watt	Annex A of FCCSZ2024-0064-RF5-A8	PASS
§2.1049	Occupied Bandwidth	---	Annex C of FCCSZ2024-0064-RF5-A8	Report Only
---	Peak-to-Average Power Ratio	<13 dB	Annex B of FCCSZ2024-0064-RF5-A8	PASS
§2.1055 §27.54	Frequency Stability	Within authorized bands of operation/frequency block.	Annex F of FCCSZ2024-0064-RF5-A8	PASS
§2.1051 §27.50(n)(2)	Band Edge Compliance	< 43+10log10(P[Watts])	Annex D of FCCSZ2024-0064-RF5-A8	PASS
§2.1051 §27.50(n)(2)	Conducted Spurious Emission	< 43+10log10(P[Watts])	Annex E of FCCSZ2024-0064-RF5-A8	PASS
§2.1051 §27.50(n)(2)	Radiates Spurious Emission	< 43+10log10(P[Watts])	See section 3.1	PASS

1.9 NR N78(3700~3800MHZ)

FCC PART SECTION	TEST TYPE AND LIMIT	LIMIT	Report Section	RESULT
§2.1046	Conducted power output	---	Annex A of FCCSZ2024-0064-RF5-A9	Report Only
§27.50(j)(3)	Equivalent Isotropic Radiated Power	EIRP < 1Watt	Annex A of FCCSZ2024-0064-RF5-A9	PASS
§2.1049	Occupied Bandwidth	---	Annex C of FCCSZ2024-0064-RF5-A9	Report Only
---	Peak-to-Average Power Ratio	<13 dB	Annex B of FCCSZ2024-0064-RF5-A9	PASS
§2.1055 §27.54	Frequency Stability	Within authorized bands of operation/frequency block.	Annex F of FCCSZ2024-0064-RF5-A9	PASS
§2.1051 §27.53(l)(2)	Band Edge Compliance	< 43+10log10(P[Watts])	Annex D of FCCSZ2024-0064-RF5-A9	PASS
§2.1051 §27.53(l)(2)	Conducted Spurious Emission	< 43+10log10(P[Watts])	Annex E of FCCSZ2024-0064-RF5-A9	PASS
§2.1051 §27.53(l)(2)	Radiates Spurious Emission	< 43+10log10(P[Watts])	See section 3.1	PASS



2 GENERAL INFORMATION

2.1 GENERAL PRODUCT INFORMATION

PRODUCT	iFLYTEK AI Recorder S6			
BRAND	iFLYTEK			
TEST MODEL	AIR2453			
ADDITIONAL MODEL	N/A			
POWER SUPPLY	DC 5V From Adapter or DC 3.87V From Battery			
MODULATION TYPE	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM			
OPERATING FREQUENCY and MAXIMUM OUTPUT POWER	Band	TX(MHz)	RX(MHz)	Maximum Output Power to Antenna (dBm)
	NR N2	1850 ~ 1910	1930 ~ 1990	20.99
	NR N5	824 ~ 849	869 ~ 894	22.66
	NR N7	2500 ~ 2570	2620 ~ 2690	20.99
	NR N38	2570 ~ 2620	2570 ~ 2620	24.50
	NR N41	2496 ~ 2690	2496 ~ 2690	24.04
	NR N77	3450 ~ 3550	3450 ~ 3550	23.59
		3700 ~ 3980	3700 ~ 3980	23.54
	NR N78	3450 ~ 3550	3450 ~ 3550	23.50
		3700 ~ 3800	3700 ~ 3800	23.43
ANTENNA TYPE(Note 4)	See section 2.2			
I/O PORTS	Refer to user's manual			
CABLE SUPPLIED	USB line, 1.0Meter, Shielded without ferrite			

Note:

1. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
3. Please refer to the EUT photo document (Reference No.: FCCSZ2024-0064-EUT) for detailed product photo.
4. Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, CVC is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.



2.2 ANTENNA TYPE

ANTENNA TYPE	Band	TX(MHz)	RX(MHz)	Antenna Type	Antenna Port	Antenna Gain
	NR N2	1850 ~ 1910	1930 ~ 1990	PIFA Antenna	2	-0.7
	NR N5	824 ~ 849	869 ~ 894	PIFA Antenna	1	-1.0
	NR N7	2500 ~ 2570	2620 ~ 2690	PIFA Antenna	3	0.1
	NR N38	2570 ~ 2620	2570 ~ 2620	PIFA Antenna	3	0.1
	NR N41	2496 ~ 2690	2496 ~ 2690	PIFA Antenna	3	0.1
	NR N77	3450 ~ 3550	3450 ~ 3550	PIFA Antenna	2	-6.0
		3700 ~ 3980	3700 ~ 3980	PIFA Antenna	2	-6.0
	NR N78	3450 ~ 3550	3450 ~ 3550	PIFA Antenna	2	-6.0
		3700 ~ 3800	3700 ~ 3800	PIFA Antenna	2	-6.0

2.3 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports.

EUT CONFIGURE MODE	DESCRIPTION
-	EUT + Adapter + with LTE link



Test modes are chosen as the worst case configuration below for NR

Test items	5G NR	Bandwidth (MHz)									Modulation					RB		Test Channel		
		5	10	15	20	25	30	40	50 to 90	100	PI/2 BPSK	QPSK	16 QAM	64 QAM	256 QAM	1%	100%	L	M	H
RF Output Power	2	O	O	O	O	O	O	O	-	-	O	O	O	O	O	O	O	O	O	O
	5	O	O	O	O	-	-	-	-	-	O	O	O	O	O	O	O	O	O	O
	7	O	O	O	O	O	O	O	-	-	O	O	O	O	O	O	O	O	O	O
	38	O	O	O	O	-	O	O	-	-	O	O	O	O	O	O	O	O	O	O
	41	-	-	-	O	-	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	77	-	O	O	O	-	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	78	-	O	O	O	-	O	O	O	O	O	O	O	O	O	O	O	O	O	O
ERP/ EIRP	2	O	O	O	O	-	-	-	-	-	O	O	O	O	O	O	O	O	O	O
	5	O	O	O	O	-	-	-	-	-	O	O	O	O	O	O	O	O	O	O
	7	O	O	O	O	O	O	O	-	-	O	O	O	O	O	O	O	O	O	O
	38	O	O	O	O	-	O	O	-	-	O	O	O	O	O	O	O	O	O	O
	41	-	-	-	O	-	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	77	-	O	O	O	-	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	78	-	O	O	O	-	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Note1: The mark “O” means that this configuration is chosen for testing. Note2: The mark “-” means that this configuration is not testing. Note3: Only the worst case was shown in test report																				



Test items	5G NR	Bandwidth (MHz)									Modulation					RB		Test Channel		
		5	10	15	20	25	30	40	50 to 90	100	PI/2 BPSK	QPSK	16 QAM	64 QAM	256 QAM	1%	100%	L	M	H
Occupied Bandwidth	2	O	O	O	O	O	O	O	-	-	O	O	O	O	O	-	O	O	O	O
	5	O	O	O	O	-	-	-	-	-	O	O	O	O	O	-	O	O	O	O
	7	O	O	O	O	O	O	O	-	-	O	O	O	O	O	-	O	O	O	O
	38	O	O	O	O	-	O	O	-	-	O	O	O	O	O	-	O	O	O	O
	41	-	-	-	O	-	O	O	O	O	O	O	O	O	O	-	O	O	O	O
	77	-	O	O	O	-	O	O	O	O	O	O	O	O	O	-	O	O	O	O
	78	-	O	O	O	-	O	O	O	O	O	O	O	O	O	-	O	O	O	O
Band Edge Compliance	2	O	-	O	O	-	-	-	-	-	O	O	-	-	-	O	O	O	-	O
	5	O	-	O	O	-	-	-	-	-	O	O	-	-	-	O	O	O	-	O
	7	O	-	O	-	-	-	O	-	-	O	O	-	-	-	O	O	O	-	O
	38	O	-	-	O	-	-	O	-	-	O	O	-	-	-	O	O	O	-	O
	41	-	-	-	O	-	-	-	O	O	O	O	-	-	-	O	O	O	-	O
	77	-	O	-	-	-	-	-	O	O	O	O	-	-	-	O	O	O	-	O
	78	-	O	-	-	-	-	-	O	O	O	O	-	-	-	O	O	O	-	O
Note1: The mark “O” means that this configuration is chosen for testing. Note2: The mark “-” means that this configuration is not testing. Note3: Only the worst case was shown in test report																				



Test items	5G NR	Bandwidth (MHz)									Modulation					RB		Test Channel		
		5	10	15	20	25	30	40	50 to 90	100	PI/2 BPSK	QPSK	16 QAM	64 QAM	256 QAM	1%	100%	L	M	H
Peak-to-Average Power Ratio	2	-	-	-	-	-	-	O	-	-	O	O	-	-	-	-	O	O	O	O
	5	-	-	-	O	-	-	-	-	-	O	O	-	-	-	-	O	O	O	O
	7	-	-	-	-	-	-	O	-	-	O	O	-	-	-	-	O	O	O	O
	38	-	-	-	-	-	-	O	-	-	O	O	-	-	-	-	O	O	O	O
	41	-	-	-	-	-	-	-	-	O	O	O	-	-	-	-	O	O	O	O
	77	-	-	-	-	-	-	-	-	O	O	O	-	-	-	-	O	O	O	O
	78	-	-	-	-	-	-	-	-	O	O	O	-	-	-	-	O	O	O	O
Frequency Stability	2	-	-	-	O	-	-	-	-	-	O	O	-	-	-	-	O	O	O	O
	5	-	-	-	O	-	-	-	-	-	O	O	-	-	-	-	O	O	O	O
	7	-	-	-	-	-	-	O	-	-	O	O	-	-	-	-	O	O	O	O
	38	-	-	-	-	-	-	O	-	-	O	O	-	-	-	-	O	O	O	O
	41	-	-	-	-	-	-	-	-	O	O	O	-	-	-	-	O	O	O	O
	77	-	-	-	-	-	-	-	-	O	O	O	-	-	-	-	O	O	O	O
	78	-	-	-	-	-	-	-	-	O	O	O	-	-	-	-	O	O	O	O
Note1: The mark “O” means that this configuration is chosen for testing. Note2: The mark “-” means that this configuration is not testing. Note3: Only the worst case was shown in test report																				



Test items	5G NR	Bandwidth (MHz)										Modulation					RB		Test Channel		
		5	10	15	20	25	30	40	50 to 90	100		PI/2 BPSK	QPSK	16 QAM	64 QAM	256 QAM	1%	100%	L	M	H
Conducted Spurious Emission	2	O	-	-	O	-	-	O	-	-		O	O	-	-	-	O	-	O	O	O
	5	O	-	O	O	-	-	-	-	-		O	O	-	-	-	O	-	O	O	O
	7	O	-	O	-	-	-	O	-	-		O	O	-	-	-	O	-	O	O	O
	38	O	-	-	O	-	-	O	-	-		O	O	-	-	-	O	-	O	O	O
	41	-	-	-	O	-	-	-	O	O		O	O	-	-	-	O	-	O	O	O
	77	-	O	-	-	-	-	-	O	O		O	O	-	-	-	O	-	O	O	O
	78	-	O	-	-	-	-	-	O	O		O	O	-	-	-	O	-	O	O	O
Radiates Spurious Emission	2	O	-	-	O	-	-	O	-	-		O	O	-	-	-	O	-	O	O	O
	5	O	-	O	O	-	-	-	-	-		O	O	-	-	-	O	-	O	O	O
	7	O	-	O	-	-	-	O	-	-		O	O	-	-	-	O	-	O	O	O
	38	O	-	-	O	-	-	O	-	-		O	O	-	-	-	O	-	O	O	O
	41	-	-	-	O	-	-	-	O	O		O	O	-	-	-	O	-	O	O	O
	77	-	O	-	-	-	-	-	O	O		O	O	-	-	-	O	-	O	O	O
	78	-	O	-	-	-	-	-	O	O		O	O	-	-	-	O	-	O	O	O

Note1: The mark “O” means that this configuration is chosen for testing.
Note2: The mark “-” means that this configuration is not testing.
Note3: Only the worst case was shown in test report

Test CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RF power output	22deg. C, 65%RH	DC 3.87V From Battery	Liang Jiatong
Effective Radiated Power	22deg. C, 65%RH	DC 3.87V From Battery	Liang Jiatong
Equivalent Isotropic Radiated Power	22deg. C, 65%RH	DC 3.87V From Battery	Liang Jiatong
Frequency Stability	22deg. C, 65%RH	DC 3.87V From Battery	Liang Jiatong
Occupied Bandwidth	22deg. C, 65%RH	DC 3.87V From Battery	Liang Jiatong
Band Edge Compliance	22deg. C, 65%RH	DC 3.87V From Battery	Liang Jiatong
Conducted Spurious Emission	22deg. C, 65%RH	DC 3.87V From Battery	Liang Jiatong
Radiates Spurious Emission	23deg. C, 63%RH	DC 3.87V From Battery	Liu Yuan
Peak-to-Average Power Ratio	22deg. C, 65%RH	DC 3.87V From Battery	Liang Jiatong



2.4 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

FCC 47 CFR PART 2

FCC 47 CFR PART 22

FCC 47 CFR PART 24

FCC 47 CFR PART 27

KDB 971168 D01 POWER MEAS LICENSE DIGITAL SYSTEMS V03R01

ANSI/TIA-603-E

ANSI C63.26-2015

ANSI C63.4-2014

Note: All test items have been performed and recorded as per the above standards

2.5 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.

Support Equipment							
NO	Description	Brand		Model No.	Serial Number		Supplied by
N/A	N/A	N/A		N/A	N/A		N/A
Support Cable							
NO	Description	Quantity (Number)	Length (cm)	Detachable (Yes/ No)	Shielded (Yes/ No)	Cores (Number)	Supplied by
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



2.6 LIST OF TEST AND MEASUREMENT INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial Number	Cal. interval	Cal. Due
Antenna Port Conducted Test					
Signal&Spectrum Analyzer	Rohde&Schwarz	FSV 3044	104408	1 year	2025.5.21
#4Shielding room	MORI	443	N/A	3 year	2026.5.16
Wideband radio communication tester	Rohde&Schwarz	CMW 500	168588	1 year	2025.5.25
Analog signal Generator(100kHz~12.75GHz)	Rohde&Schwarz	SMB 100A	181882	1 year	2025.5.21
Vector signal Generator(8kHz~6GHz)	Rohde&Schwarz	SMBV 100B	101846	1 year	2025.5.21
DC power supply	Rohde&Schwarz	HMC8041-G	101203	1 year	2025.5.21
RF control unit(2/3/4/5G)	Tonscend	JS0806-1	CS0300027	1 year	2025.5.21
Automatic filter bank(2/3/4G)	Tonscend	JS0806-F	CS0300028	1 year	2025.5.21
Automatic filter bank(5G)	Tonscend	JS0806-F-5G NR	N/A	1 year	2025.5.21
Temperature and humidity meter	UNI-T	A10T	C193561464	1 year	2025.5.21
Radio Communication Analyzer	Anritsu	MT8821C	6272374548	1 year	2025.1.09
Constant temperature humidity chamber	TEELONG	TL-HW-225B	20220518-01	1 year	2025.5.25
Radio Communication Test Station	Anritsu	MT8000A	6272354169	1 year	2025.1.09

Radiated Spurious Emission Test - 3M Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. interval	Cal. Due
Signal&Spectrum Analyzer	Rohde&Schwarz	FSV 40	101898	1 year	2025.5.21
EMI Test Receiver	Rohde&Schwarz	ESR3	102693	1 year	2025.5.25
Antenna(30MHz~1001MHz)	SCHWARZBECK	VULB 9168	01133	1 year	2025.2.21
Horn antenna(1GHz-18GHz)	ETS	3117	227611	1 year	2025.3.25
Horn antenna(18GHz-40GHz)	QMS	QMS-00880	22051	1 year	2025.3.25
3m anechoic chamber	MORI	966	CS0300011	3 year	2026.5.18
Filter group(RSE-BT/WiFi)	Rohde&Schwarz	WiFi /BT Variant 1	100820	1 year	2025.4.28
Filter group(RSE-Cellular)	Rohde&Schwarz	Cellular Variant 1	100768	1 year	2025.4.28
Preamplifier(1GHz-18GHz)	Rohde&Schwarz	SCU-18F	100799	1 year	2025.4.28
Preamplifier(1GHz-18GHz)	Rohde&Schwarz	SCU-18F	100801	1 year	2025.4.28
Preamplifier(18Gz-40GHz)	Rohde&Schwarz	SCU-40A	101209	1 year	2025.4.28
#2 control room	MORI	433	CS0300028	3 year	2026.5.16
Temperature and humidity meter	/	C193561517	C193561517	1 year	2025.4.28



2.7 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	UNCERTAINTY
Maximum Peak Output Power	$\pm 0.9\text{dB}$
Frequency Stability	$\pm 76.97\text{Hz}$
Radiated emissions (30MHz~1GHz)	$\pm 5.0\text{dB}$
Radiated emissions (1GHz ~18GHz)	$\pm 4.8\text{dB}$
Radiated emissions (18GHz ~40GHz)	$\pm 5.1\text{dB}$
Conducted emissions	$\pm 2.7\text{dB}$
Occupied Channel Bandwidth	$\pm 43.58\text{KHz}$
Band Edge Measurements	$\pm 2.7\text{dB}$
Peak to average ratio	$\pm 0.76\text{dB}$

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

2.8 TEST LOCATION

The tests and measurements refer to this report were performed by EMC testing Lab. of CVC Testing Technology (Shenzhen) Co., Ltd.

Lab Address: No. 1301-14,16, Guanguang Road, Xinlan Community, Guanlan Street, Longhua District, Shenzhen, Guangdong, 518110, P. R. China

Post Code: 518110 Tel: 0755-23763060-8805

Fax: 0755-23763060 E-mail: sz-kf@cvc.org.cn

FCC(Test firm designation number: CN1363)

IC(Test firm CAB identifier number: CN0137)

CNAS(Test firm designation number: L16091)



3 TEST TYPES AND DESCRIPTION

3.1 RADIATED EMISSION MEASUREMENT

3.1.1 TEST PROCEDURES

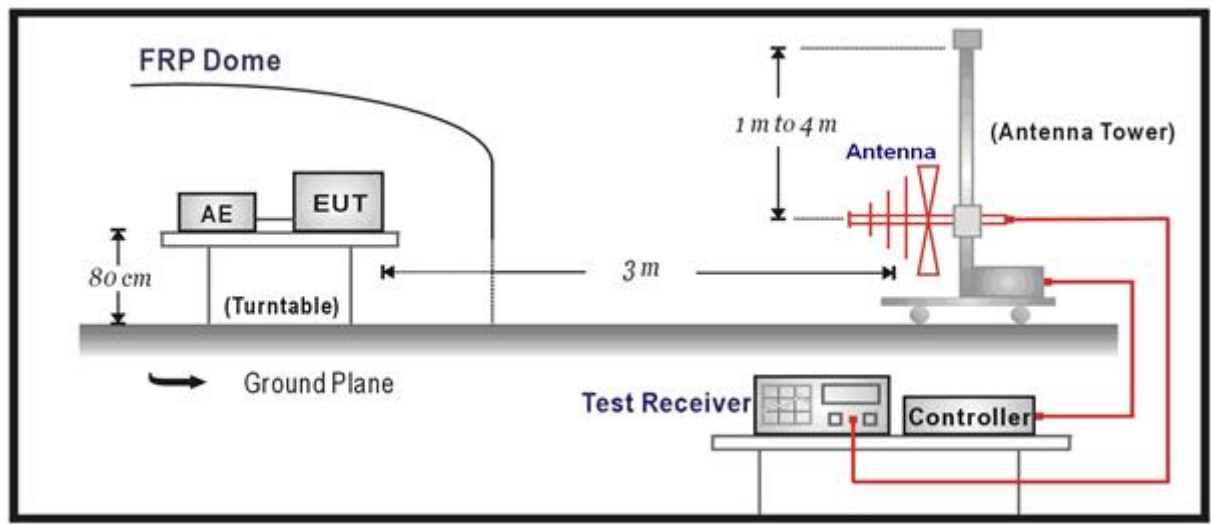
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step a. Record the power level of S.G
- c. $EIRP(dBm) = S.G.POWER - TX \text{ cable loss} + \text{Antenna gain}.$
- d. $E.R.P(dBm) = E.I.P.R - 2.15dB_i.$

NOTE:

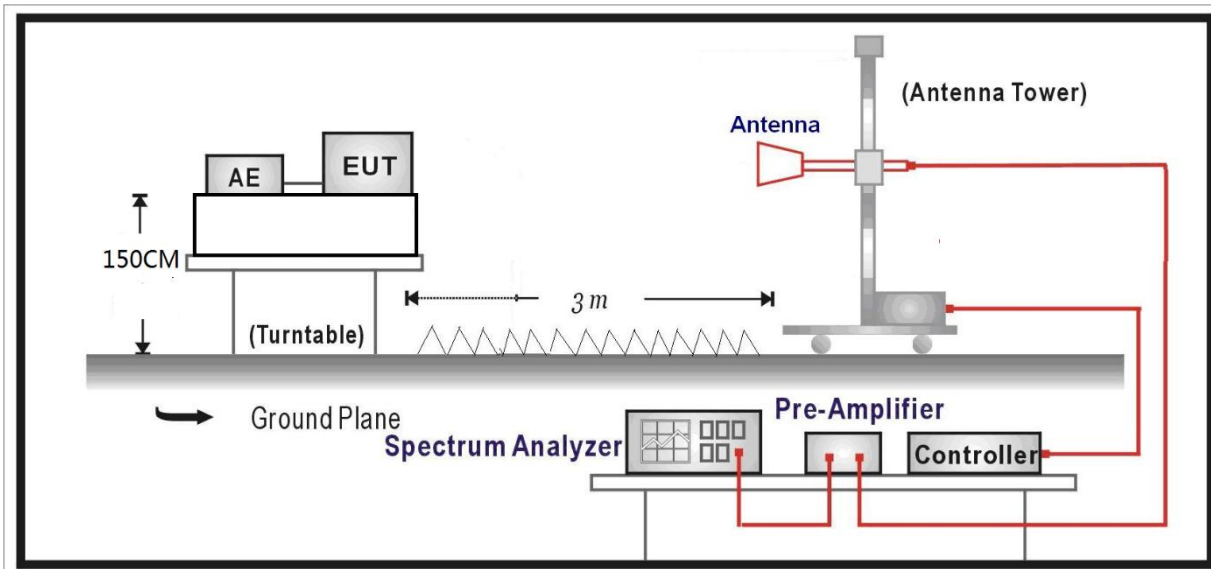
- 1.The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.
- 2.Only the worst case was shown in test report

3.1.2 TEST SETUP

Below 1GHz Test Setup:



Above 1GHz Test Setup:



Note: Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

For the actual test configuration, please refer to the attached file (Test Setup Photo).



3.1.3 TEST RESULTS

Test Mode		NR N2-SCS_15kHz-BW_15MHz-DFT-PI2BPSK-1RB-low channel					
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	47.9778	-98.61	-71.63	-13.00	58.63	26.98	234
2	119.996	-95.89	-72.63	-13.00	59.63	23.26	234
3	334.4454	-99.84	-72.50	-13.00	59.50	27.34	296
4	1066.6127	-97.75	-58.72	-13.00	45.72	39.03	172
5	3859.4059	-70.97	-55.92	-13.00	42.92	15.05	195
6	10931.3231	-83.62	-60.78	-13.00	47.78	22.84	298
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	48.5129	-100.72	-72.27	-13.00	59.27	28.45	132
2	155.9516	-97.80	-72.56	-13.00	59.56	25.24	253
3	484.9025	-99.50	-68.57	-13.00	55.57	30.93	253
4	1689.4979	-66.49	-60.65	-13.00	47.65	5.84	253
5	5965.3465	-71.59	-51.59	-13.00	38.59	20.00	235
6	13187.3087	-85.31	-58.92	-13.00	45.92	26.39	133



Test Mode		NR N5-SCS_15kHz-BW_20MHz-DFT-QPSK-1RB-low channel					
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	37.0627	-100.75	-74.96	-13.00	61.96	25.79	235
2	79.0109	-100.19	-77.88	-13.00	64.88	22.31	108
3	179.3869	-99.96	-74.91	-13.00	61.91	25.05	174
4	522.8913	-98.66	-67.78	-13.00	54.78	30.88	0
5	1834.3869	-61.55	-57.58	-13.00	44.58	3.97	174
6	4671.0342	-72.03	-55.17	-13.00	42.17	16.86	0
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	38.7749	-100.28	-73.04	-13.00	60.04	27.24	108
2	84.1474	-99.90	-80.11	-13.00	67.11	19.79	294
3	239.634	-99.41	-75.18	-13.00	62.18	24.23	294
4	711.4441	-95.41	-60.79	-13.00	47.79	34.62	0
5	2473.0746	-58.08	-49.28	-13.00	36.28	8.80	294
6	6071.1542	-73.26	-52.72	-13.00	39.72	20.54	108



Test Mode		NR N7-SCS_15kHz-BW_20MHz-DFT-PI2BPSK-1RB-low channel					
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	47.9778	-99.93	-72.95	-25.00	47.95	26.98	201
2	140.007	-100.78	-74.91	-25.00	49.91	25.87	12
3	516.0426	-99.84	-69.06	-25.00	44.06	30.78	323
4	2166.4933	-61.82	-53.08	-25.00	28.08	8.74	75
5	6150.165	-71.82	-51.48	-25.00	26.48	20.34	235
6	17198.4698	-89.03	-54.77	-25.00	29.77	34.26	133
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	37.0627	-101.56	-75.27	-25.00	50.27	26.29	296
2	103.7304	-100.91	-80.09	-25.00	55.09	20.82	173
3	286.6117	-99.30	-73.67	-25.00	48.67	25.63	111
4	1034.1884	-98.12	-59.61	-25.00	34.61	38.51	0
5	6057.4257	-71.97	-51.71	-25.00	26.71	20.26	360
6	16391.0891	-88.07	-53.61	-25.00	28.61	34.46	44



Test Mode		NR N38-SCS_15kHz-BW_40MHz-DFT-PI2BPSK-1RB-mid channel					
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	47.9778	-99.31	-72.33	-25.00	47.33	26.98	113
2	138.7229	-99.71	-74.18	-25.00	49.18	25.53	113
3	467.0317	-99.76	-69.77	-25.00	44.77	29.99	0
4	1298.0196	-62.57	-57.99	-25.00	32.99	4.58	357
5	5499.3399	-71.56	-52.35	-25.00	27.35	19.21	360
6	16959.766	-89.85	-55.31	-25.00	30.31	34.54	0
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	47.4427	-100.49	-72.28	-25.00	47.28	28.21	198
2	119.996	-96.77	-75.26	-25.00	50.26	21.51	258
3	414.4894	-99.58	-71.64	-25.00	46.64	27.94	12
4	1290.038	-62.84	-58.89	-25.00	33.89	3.95	360
5	6242.9043	-71.76	-51.69	-25.00	26.69	20.07	176
6	16389.919	-88.21	-53.60	-25.00	28.60	34.61	360



Test Mode		NR N41-SCS_30kHz-BW_100MHz-DFT-PI2BPSK-1RB-mid channel					
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	47.9778	-99.72	-72.74	-25.00	47.74	26.98	194
2	142.1472	-99.52	-74.28	-25.00	49.28	25.24	10
3	458.7919	-99.18	-69.15	-25.00	44.15	30.03	360
4	1296.1192	-62.62	-58.02	-25.00	33.02	4.60	360
5	5073.5974	-71.46	-53.39	-25.00	28.39	18.07	295
6	16960.9361	-89.60	-55.12	-25.00	30.12	34.48	12
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	40.8081	-100.04	-73.26	-25.00	48.26	26.78	357
2	113.2543	-100.16	-78.10	-25.00	53.10	22.06	0
3	330.5931	-99.19	-71.83	-25.00	46.83	27.36	0
4	1069.716	-97.98	-59.00	-25.00	34.00	38.98	297
5	4941.2541	-71.88	-53.44	-25.00	28.44	18.44	256
6	16389.919	-88.07	-53.46	-25.00	28.46	34.61	357



Test Mode		NR N77-SCS_30kHz-BW_40MHz-DFT-QPSK-1RB-high channel					
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	47.9778	-99.41	-72.43	-25.00	47.43	26.98	171
2	139.0439	-100.08	-74.41	-25.00	49.41	25.67	171
3	575.5406	-99.37	-67.46	-25.00	42.46	31.91	294
4	1836.5873	-57.06	-53.07	-25.00	28.07	3.99	46
5	4804.6205	-71.45	-53.82	-25.00	28.82	17.63	195
6	11222.6823	-79.56	-56.78	-25.00	31.78	22.78	56
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	49.4759	-100.99	-72.59	-25.00	47.59	28.40	133
2	160.7671	-100.94	-74.93	-25.00	49.93	26.01	133
3	637.3927	-98.61	-65.63	-25.00	40.63	32.98	258
4	1835.4471	-56.11	-50.22	-25.00	25.22	5.89	197
5	6064.3564	-72.04	-51.58	-25.00	26.58	20.46	111
6	11222.6823	-68.65	-46.16	-25.00	21.16	22.49	360



Test Mode		NR N78-SCS_30kHz-BW_40MHz-DFT-PI2BPSK1RB-mid channel					
Horizontal							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	47.9778	-98.85	-71.87	-25.00	46.87	26.98	360
2	119.996	-98.25	-74.99	-25.00	49.99	23.26	257
3	394.1574	-100.17	-71.24	-25.00	46.24	28.93	257
4	1300.3001	-62.65	-58.10	-25.00	33.10	4.55	73
5	4802.9703	-71.38	-53.78	-25.00	28.78	17.60	111
6	11222.6823	-77.37	-54.59	-25.00	29.59	22.78	360
Vertical							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	50.6531	-100.31	-72.33	-25.00	47.33	27.98	112
2	158.8409	-100.12	-73.76	-25.00	48.76	26.36	0
3	512.9393	-99.27	-68.04	-25.00	43.04	31.23	0
4	1594.0988	-62.26	-58.41	-25.00	33.41	3.85	112
5	5209.571	-71.46	-53.33	-25.00	28.33	18.13	360
6	11222.6823	-68.23	-45.74	-25.00	20.74	22.49	295



3.2 OUT POWER MEASUREMENT

3.2.1 TEST PROCEDURES

Subclause 5.6 of Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$ERP = PT + GT - LC$, $ERP = EIRP - 2.15dB$, where

PT = transmitter output power dBm;

GT = gain of the transmitting antenna dBi;

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

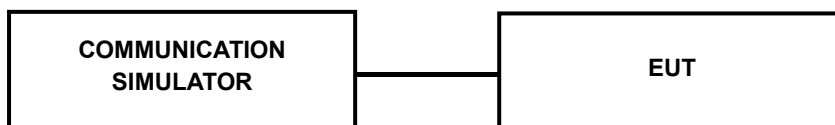
CONDUCTED POWER MEASUREMENT:

The EUT was set up for the maximum power with 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.

3.2.2 TEST SETUP

EIRP / ERP Measurement:

CONDUCTED POWER MEASUREMENT:



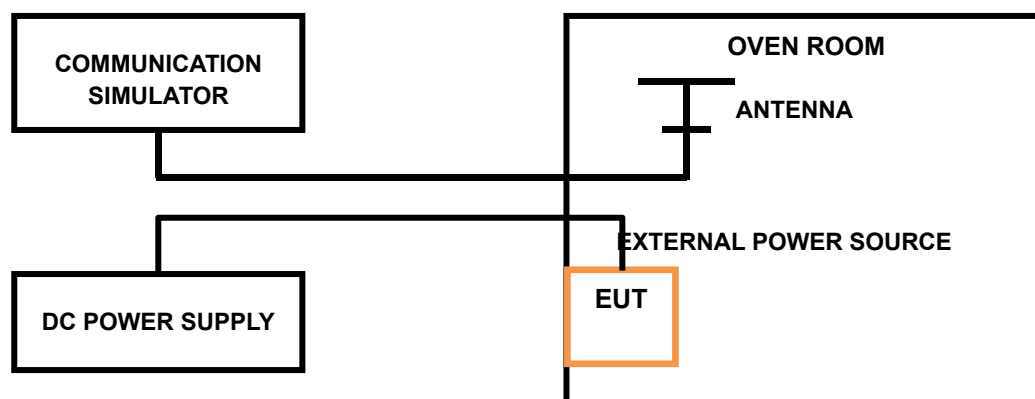
3.3 FREQUENCY STABILITY

3.3.1 TEST PROCEDURE

- Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

3.3.2 TEST SETUP

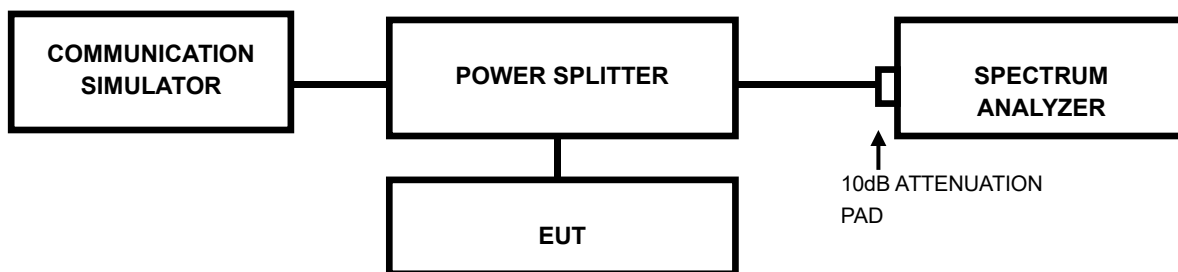


3.4 OCCUPIED BANDWIDTH MEASUREMENT

3.4.1 TEST PROCEDURES

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.

3.4.2 TEST SETUP



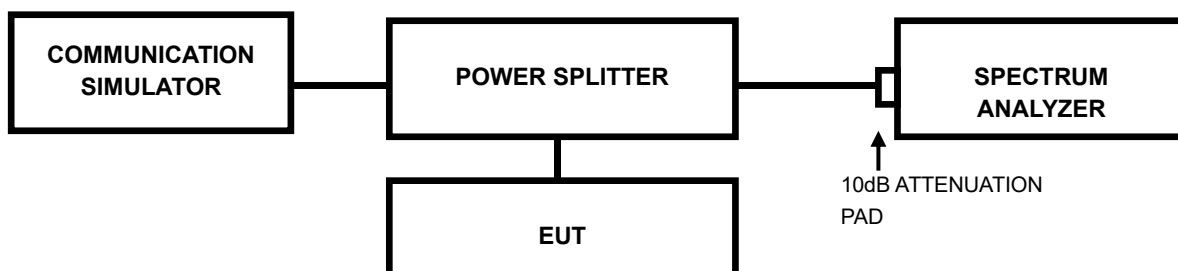


3.5 BAND EDGE MEASUREMENT

3.5.1 TEST PROCEDURES

- a. All measurements were done at low and high operational frequency range.
- b. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 30kHz and VBW of the spectrum is 100kHz. (LTE bandwidth 1.4MHz).
- c. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 30kHz and VBW of the spectrum is 100kHz. (LTE bandwidth 3MHz).
- d. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 100kHz and VBW of the spectrum is 300kHz. (LTE bandwidth 5MHz).
- e. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 100kHz and VBW of the spectrum is 300kHz. (LTE bandwidth 10MHz).
- f. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 200kHz and VBW of the spectrum is 600kHz. (LTE bandwidth 15MHz).
- g. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 300kHz and VBW of the spectrum is 1000kHz. (LTE bandwidth 20MHz).
- h. Set the spectrum with RMS detector.
- i. Record the AVG trace plot into the test report.

3.5.2 TEST SETUP

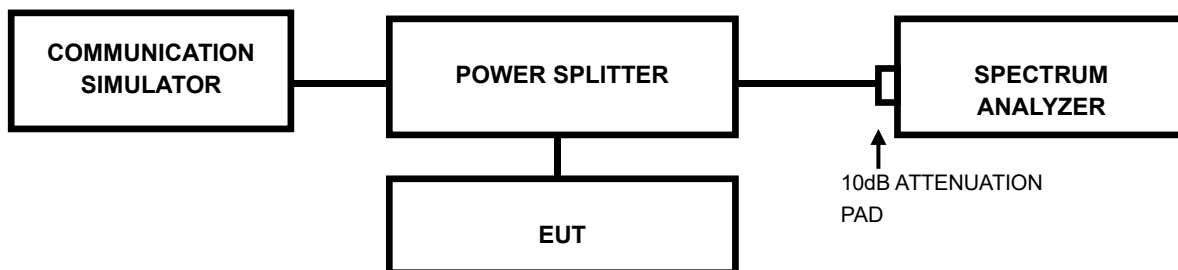


3.6 CONDUCTED SPURIOUS EMISSIONS

3.6.1 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- b. Measuring frequency range is from 30 MHz up to a frequency including its 10th harmonic. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

3.6.2 TEST SETUP



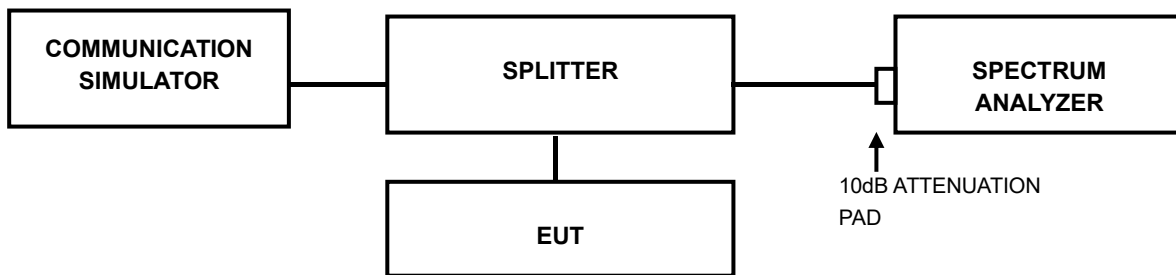


3.7 PEAK TO AVERAGE RATIO

3.7.1 TEST PROCEDURES

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%.

3.7.2 TEST SETUP





4 PHOTOGRAPHS OF TEST SETUP

Please refer to the attached file (Test Setup Photo).



5 PHOTOGRAPHS OF THE EUT

Please refer to the attached file (External Photos report and Internal Photos).



Important

- (1) The test report is invalid without the official stamp of CVC;
- (2) Any part photocopies of the test report are forbidden without the written permission from CVC;
- (3) The test report is invalid without the signatures of Approval and Reviewer;
- (4) The test report is invalid if altered;
- (5) Objections to the test report must be submitted to CVC within 15 days.
- (6) Generally, commission test is responsible for the tested samples only.
- (7) As for the test result “-” or “N” means “not applicable”, “/” means “not test”, “P” means “pass” and “F” means “fail”

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