

No.:

FCCSZ2025-0043-RF2

# **TEST REPORT**

FCC ID : 2BPWEX100

NAME OF SAMPLE : Car Infotainment System

APPLICANT : Tongxingzhe CyberAuto (Shenzhen) Co.,Ltd.

CLASSIFICATION OF TEST : N/A

CVC Testing Technology (Shenzhen) Co., Ltd.

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	Name: Tongxingzhe CyberAuto (Shenzhen) Co.,Ltd.							
Applicant		Address: National Engineering Laboratory Building A-13F, Shenzhen, 518000 Guangdong, China						
	Manufactuur		ngzhe CyberA	Auto (S	henzhen) Co.,Ltd.			
Manufacturer					boratory Building A-13F, ngdong, China			
		Product Name	: Car Infotain	ment S	System			
			X100					
		Additional Mo	del Name: N/A	4				
Equipment Under	Test	Brand Name:	Auraai					
			Serial NO.: N/A					
Date of Receipt. May		Sample NO.: 202505222034-5 y. 22, 2025 Date of Testing			May. 22, 2025 ∼ Jul. 18, 2025			
·								
Test Spec	cification	1	Test Result					
FCC Part 15, Subpar	rt C, Sec	tion 15.247 PASS			PASS			
		The equipment under test was found to comply with the						
		requirements of the standards applied.						
Evaluation of Test Resu	lt							
		Seal of CVC						
					Issue Date: Jul. 18, 2025			
Compiled by:		Reviewed by:			Approved by:			
Zhu Yulm	Mi	Mo Xianbiao		M				
Zhu Yulin Mo Xianbiao Dong Sanbi					<b>Dong Sanbi</b> Name Signature			
Name Signatu Other Aspects: NONE.	ii e	Name	Signature		Name Oignature			
Abbreviations:OK, Pass= passed	<u> </u>	Fail = failed	J/A= not applicable		FLIT= equipment_sample/s) under tested			
Abbreviations:OK, Pass= passed	i	ı alı – lalleu li	I/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	
FCCSZ2025-0043-RF2	Original release	Jul. 18, 2025	

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# 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15 Subpart C						
STANDARD SECTION	TEST TYPE AND LIMIT	REMARK				
FCC Part 15.207	AC Power Conducted Emission	N/A	DC power supply			
	Radiated Emission and Restricted bands Measurements	PASS	See section 3.2			
FCC Part 15.247(d) FCC Part 15.209 FCC Part 15.205	Conducted Spurious Emission	PASS	Appendix E of FCCSZ2025-0043-RF2-A1&A2			
	Band Edge Measurements	PASS	Appendix F of FCCSZ2025-0043-RF2-A1&A2			
FCC Part 15.247(a)(2)	6dB Bandwidth Measurement	PASS	Appendix A of FCCSZ2025-0043-RF2-A1&A2			
	Occupied Channel Bandwidth	N/A	Appendix B of FCCSZ2025-0043-RF2-A1&A2 (For reference)			
FCC Part 15.247(b)	Conducted Output power	PASS	Appendix C of FCCSZ2025-0043-RF2-A1&A2			
FCC Part 15.247(e)	Power Spectral Density	PASS	Appendix D of FCCSZ2025-0043-RF2-A1&A2			
FCC Part 15.203 FCC Part 15.247(b)	Antenna Requirement	PASS	See section 3.8			

### 1.1 TEST LOCATION

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

Address: No. 1301-14&16, Guanguang Road, Xinlan Community, Guanlan Subdistrict, Longhua District, Shenzhen, Guangdong, 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)

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# 1.2 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 30	104408	1 year	2026/4/22
#3Shielding room	MORI	443	N/A	3 year	2026/5/16
Wideband radio communication tester	Rohde&Schwarz	CMW 500	168587	1 year	2026/6/5
Analog signal Generator (100kHz ~ 40GHz)	Rohde&Schwarz	SMB 100A	181934	1 year	2026/4/22
Vector signal Generator (9kHz ~ 6GHz)	Rohde&Schwarz	SGT 100A	111724	1 year	2026/4/22
RF control unit(BT/WiFi)	Tonscend	JS0806-2-8CH	CS0300023	1 year	2026/4/22
10db attenuator	JUNKE	SMA-10-18-N	250312743	1 year	2026/6/6
Power splitter	Anritsu	K240CPOWERDIVIDER	012334	1 year	2026/6/6
Temperature and humidity meter	1	C193561457	C193561457	1 year	2026/4/28
Radiation Spurious Test - 3M Cha	amber #2				
Signal&Spectrum Analyzer	Rohde&Schwarz	FSV 40	101898	1 year	2026/4/22
EMI Test Receiver	Rohde&Schwarz	ESR3	102694	1 year	2026/5/21
Antenna(30MHz~1001MHz)	SCHWARZBECK	VULB 9168	01133	1 year	2026/1/22
Horn antenna(1GHz-18GHz)	ETS	3117	227611	1 year	2026/3/28
Horn antenna(18GHz-40GHz)	QMS	QMS-00880	22051	1 year	2026/3/21
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	2026/4/22
Filter group(RSE-Cellular)	Rohde&Schwarz	Cellular Variant 1	100768	1 year	2026/4/22
Preamplifier(10kHz-1GHz)	Rohde&Schwarz	SCU-01F	100299	1 year	2026/4/22
Preamplifier(1GHz-18GHz)	Rohde&Schwarz	SCU-18F	100799	1 year	2026/4/22
Preamplifier(1GHz-18GHz)	Rohde&Schwarz	SCU-18F	100801	1 year	2026/4/22
Preamplifier(18GHz-40GHz)	Rohde&Schwarz	SCU-40A	101209	1 year	2026/4/22
Temperature and humidity meter	1	C193561517	C193561517	1 year	2026/4/28
Radiation Spurious Test - 3M Cha	amber #1				
EMI Test Receiver	Rohde&Schwarz	ESR 26	101718	1 year	2026/5/21
Loop antenna(8.3k~30MHz)	Rohde&Schwarz	HFH2-Z2E	100951	1 year	2026/6/5
Antenna(30MHz~1000MHz)	SCHWARZBECK	VULB 9168	01132	1 year	2026/2/27
Horn antenna(1GHz-18GHz)	SCHWARZBECK	BBHA9120D	02793	1 year	2026/1/20
3m anechoic chamber	MORI	966	N/A	1 year	2026/5/18
Preamplifier(10kHz-1GHz)	Rohde&Schwarz	SCU-01F	100298	1 year	2026/4/22
Preamplifier(1GHz-18GHz)	Rohde&Schwarz	SCU-18F	100799	1 year	2026/4/22
Attenuator	1	SJ-5dB	607684	1 year	2026/2/27
#1 control room	MORI	433	/	1 year	2026/5/16
Temperature and humidity meter	1	C193561473	C193561473	1 year	2026/4/28

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# 1.3 MEASUREMENT UNCERTAINTY

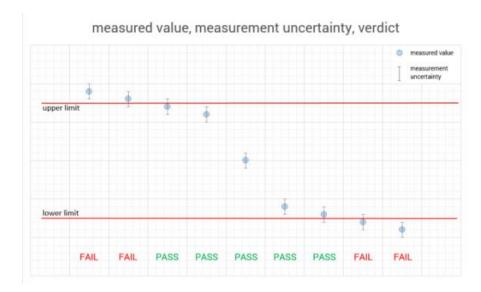
Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

No.	Item	Measurement Uncertainty					
1	Occupied Channel Bandwidth	±1.86 %					
2	RF output power, conducted	±0.9 dB					
3	Power Spectral Density, conducted	±0.8 dB					
4	Conducted emission test	+/-2.7 dB					
	Radiated emission 9kHz-30MHz	+/-5.6 dB					
5	Radiated emission 30MHz-1GHz	+/-4.6 dB					
5	Radiated emission 1GHz-18GHz	+/-4.4 dB					
	Radiated emission 18GHz-40GHz	+/-5.1 dB					
6	Temperature ±0.73 °C						
7	Humidity	±3.90 %					
8	Supply voltages ±0.37 %						
9	Time ±0.27 %						
Remai	rk: 95% Confidence Levels, k=2.						

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

Only the measured values related to their corresponding limits will be used to decide whether the equipment under test meets the requirements of the test standards listed.

The measurement uncertainty is mentioned in this test report, but is not taken into account - neither to the limits nor to the measurement results. Measurement results with a smaller margin to the corresponding limits than the measurement uncertainty have a potential risk of more than 5% that the decision might be wrong.



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# 2 GENERAL INFORMATION

# 2.1 GENERAL PRODUCT INFORMATION

PRODUCT NAME	Car Infotainment System
BRAND NAME	Auraai
MODEL NAME	X100
ADDITIONAL MODEL NAME	N/A
POWER SUPPLY	DC 12V
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM GFSK for DTS
OPERATING FREQUENCY	2412MHz ~ 2462MHz for 802.11b/g/n(HT20) 2422MHz ~ 2452MHz 802.11n(HT40) 2402MHz ~ 2480MHz for BT-LE(1M/2M)
NUMBER OF CHANNEL	802.11b/g/n(HT20): 11 802.11n(HT40): 7 BT-LE (1M/2M): 40
MAXIMUM CONDUCTED POWER	WLAN: 19.80dBm BT-LE: 0.88dBm
ANTENNA TYPE AND GAIN	WiFi 2.4G: External Antenna, with 3.74dBi gain
(Remark 4/5)	BT-LE: External Antenna, with 3.74dBi gain
HARDWARE VERSION:	L880A_VER_G_210503_FR4
SOFTWARE VERSION:	V2.1.03
FIX FREQUENCY SOFTWARE	Pandora
I/O PORTS	Refer to User's Manual
CABLE SUPPLIED	N/A

### Remark:

- 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 for detailed product photo. (Report NO.: FCCSZ2025-0043-EUT)
- 4. Please refer to the antenna report.
- 5. 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.
- 6. The EUT have SISO function, provides 1 completed transmitter and 1 receiver.

# 2.2 DESCRIPTION OF ACCESSORIES

N/A

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# 2.3 OPERATING FREQUENCY OF EACH CHANNEL

			2.4G	WIFI			
			802.11b/	g/n(HT20)			
CHANNEL	FREQ	. (MHz)	(MHz) CHANNEL		FREQ. (MHz) CHAN		FREQ. (MHz)
1	24	112	5	2432		9	2452
2	24	17	6	2437		10	2457
3	24	22	7	2442		11	2462
4	24	27	8	2447			
			802.11	n(HT40)			
CHANNEL	FREQ	. (MHz)	CHANNEL	FREQ. (MH	lz) C	HANNEL	FREQ. (MHz)
3	24	122	6	2437		9	2452
4	24	27	7	2442			
5	24	32	8	2447			
				(1M/2M)			
CHANNEL	FREQ. (MHz)	CHANNE	L FREQ. (MHz)	CHANNEL	FREQ (MHz)	CHANN	IEL FREQ. (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

- 1. The channels which were indicated in bold type of the above channel list were selected as representative test channel. Therefore only the data of the test channels were recorded in this report.
- 2. By means of test software which provided by manufacture, the power levels during the tests were set according to the following codes:

802.	11b	802.11g		802.11n(HT20)		802.11n(HT40)		BT-LE 1M&2M	
FREQUENCY (MHZ)	POWER SETTING								
2412	13	2412	13	2412	10	2412	10	2402	5
2437	13	2437	13	2437	10	2437	10	2440	5
2462	13	2462	13	2462	10	2462	10	2480	5

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# 2.4 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	APF	PLICABLE	TEST ITE	MS	
CONFIGURE MODE	RE<1G	RE≥1G	PLC	APCM	DESCRIPTION
Α	√	$\sqrt{}$	<b>V</b>	<b>V</b>	2.4G WIFI Function
В	√	√	√	$\checkmark$	BT Function

Where **RE < 1G:** Radiated Emission below 1GHz

**RE** ≥ **1G**: Radiated Emission above 1GHz **APCM**: Antenna Port Conducted Measurement

PLC: Power Line Conducted Emission

### **RADIATED EMISSION TEST (BELOW 1 GHz):**

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.

The worst case was found when positioned on x axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
Α	802.11b	1 to 11	1	DSSS	DBPSK	1.0
В	BT-LE	0 to 39	0	DTS	GFSK	1.0

For the test results, only the worst case was shown in test report.

# **POWER LINE CONDUCTED EMISSION TEST:**

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.

Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	TESTED CONDITION
	WiFi (2.4G) + BT-LE Link

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# **RADIATED EMISSION TEST (ABOVE 1 GHz):**

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.

The worst case was found when positioned on x axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE PARAMETER
А	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0 Mbps
А	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0 Mbps
Α	802.11n (HT20)	1 to 11	1, 6, 11	OFDM	BPSK	MCS0
А	802.11n (HT40)	3 to 9	3, 6, 9	OFDM	BPSK	MCS0
В	BT-LE	0 to 39	0,19, 39	DTS	GFSK	1.0 Mbps
В	BT-LE	0 to 39	0,19, 39	DTS	GFSK	2.0 Mbps

### **ANTENNA PORT CONDUCTED MEASUREMENT:**

This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.

Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE PARAMETER
А	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0 Mbps
А	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0 Mbps
А	802.11n (HT20)	1 to 11	1, 6, 11	OFDM	BPSK	MCS0
А	802.11n (HT40)	3 to 9	3, 6, 9	OFDM	BPSK	MCS0
В	BT-LE	0 to 39	0,19, 39	DTS	GFSK	1.0 Mbps
В	BT-LE	0 to 39	0,19, 39	DTS	GFSK	2.0 Mbps

### **TEST CONDITION:**

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE (SYSTEM)	TESTED BY
RE<1G	24.5deg. C, 55%RH	DC 12V	Liu Yuan
RE≥1G	24.5deg. C, 55%RH	DC 12V	Liu Yuan
PLC	25.2deg. C, 53%RH	DC 12V	Zhou Ye
APCM	24.2deg. C, 57%RH	DC 12V	Zhu Yulin

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### 2.5 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 PART 15, Subpart C. Section 15.247 KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10-2020

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

### 2.6 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.

during	the tests.										
	Support Equipment										
NO	NO Description Brand Model No. Serial Number Supplied by								Supplied by		
1	1 PC Lenovo					510Pro-151CK		M70DZ	XR8	Lab	
					Sup	pport Cable					
NO	Quantity Length Detachable Shielded Cores								Supplied by		
1	N/A	N/A N/A		N/A		N/A N/A		N/A	N/A		N/A

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# 3 TEST TYPES AND RESULTS

### 3.1 RADIATED EMISSION AND RESTRICTED BANDS MEASUREMENTS

#### 3.1.1 Limit

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

FREQUENCIES (MHz)	FIELD STRENGTH (Microvolts/Meter)	MEASUREMENT DISTANCE (Meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE: 1. The lower limit shall apply at the transition frequencies.

NOTE: 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

NOTE: 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

### 3.1.2 Measurement procedure

- a. The EUT was placed on the top of a rotating table 1.5 meters(above 1GHz) and 0.8 meters(below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. For below 1GHz was used bilog antenna, and above 1GHz was used horn antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f.For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.
- g. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

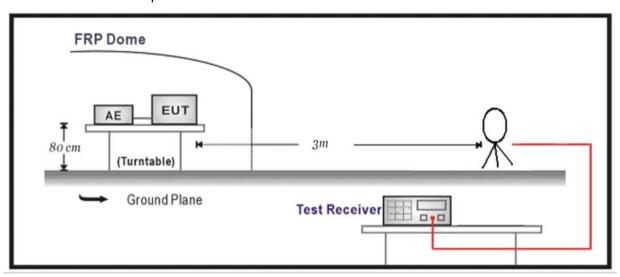
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### NOTE:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.
- 5. The testing of the EUT was performed on all 3 orthogonal axes; the worst-case test configuration was reported on the file test setup photo.

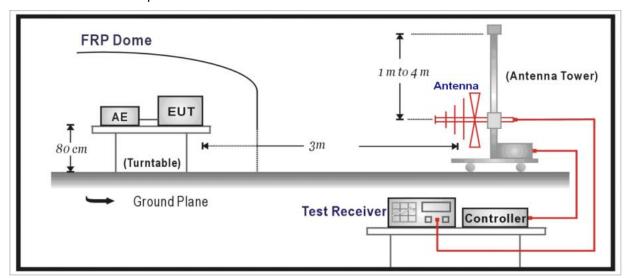
# 3.1.3 Test setup

Below 30MHz Test Setup:

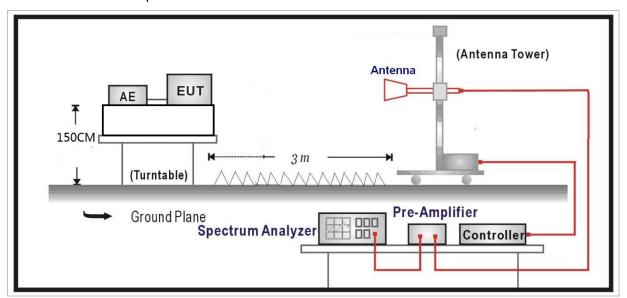


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# Below 1GHz Test Setup:



# Above 1GHz Test Setup:



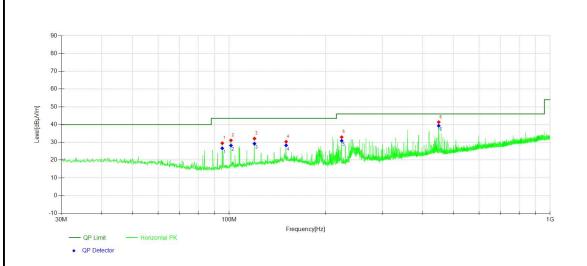
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### 3.1.4 Test results

# **BELOW 1GHz WORST-CASE DATA**

Worst Test Mode	BLE 1M	Channel	CH 0
Frequency Range	9KHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

### Horizontal



NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]
1	95.19	13.52	13.1	26.62	43.50	16.88	100	358
2	101.30	13.98	14.2	28.18	43.50	15.32	100	358
3	119.93	16.13	13.1	29.23	43.50	14.27	100	358
4	150.49	18.99	9.3	28.29	43.50	15.21	100	358
5	224.21	16.35	14.5	30.85	46.00	15.15	100	281
6	449.76	23.03	16.3	39.33	46.00	6.67	100	358

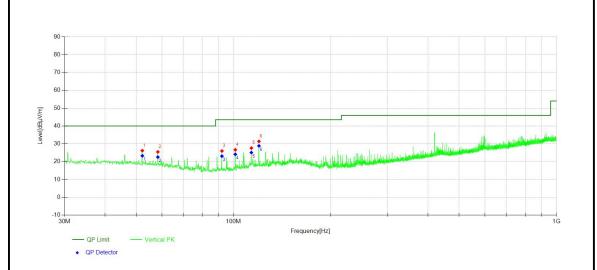
- 2. The emission levels of other frequencies were greater than 20dB margin.
- 3. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
- 4. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 5. Margin(dB) = Limit[dB $\mu$ V/m] Level [dB $\mu$ V/m]



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Worst Test Mode	BLE 1M	Channel	CH 0
Frequency Range	9KHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

### Vertical



NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]
1	52.22	16.69	6.6	23.29	40.00	16.71	100	227
2	58.33	16.27	6.3	22.57	40.00	17.43	100	217
3	92.09	13.29	9.8	23.09	43.50	20.41	100	355
4	101.30	14.42	9.7	24.12	43.50	19.38	100	359
5	113.62	15.69	9.4	25.09	43.50	18.41	100	266
6	119.93	16.44	12.4	28.84	43.50	14.66	100	296

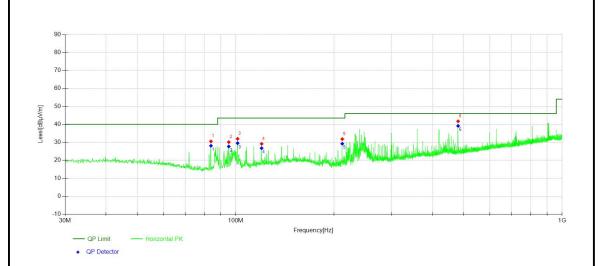
- 2. The emission levels of other frequencies were greater than 20dB margin.
- 3. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
- 4. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 5. Margin(dB) = Limit[dB $\mu$ V/m] Level [dB $\mu$ V/m]



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Worst Test Mode	802.11b CDD	Channel	CH 1
Frequency Range	9KHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

#### Horizontal



NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]
1	83.94	12.25	15.85	28.10	40.00	11.90	100	358
2	95.19	11.30	16.41	27.71	43.50	15.79	100	358
3	101.30	12.63	16.92	29.55	43.50	13.95	100	358
4	120.03	7.75	19.00	26.75	43.50	16.75	100	358
5	211.99	11.52	17.72	29.24	43.50	14.26	100	105
6	480.03	13.61	25.52	39.13	46.00	6.87	100	358

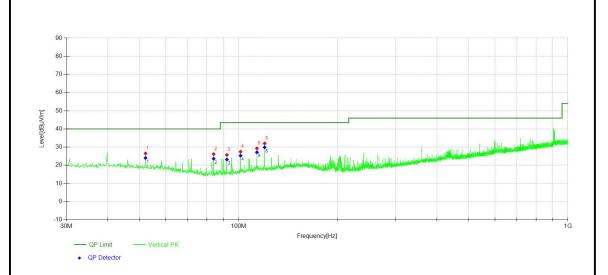
- 2. The emission levels of other frequencies were greater than 20dB margin.
- 3. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
- 4. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 5. Margin(dB) = Limit[dB $\mu$ V/m] Level [dB $\mu$ V/m]



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Worst Test Mode	802.11b CDD	Channel	CH 1
Frequency Range	9KHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

### Vertical



NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]
1	52.12	4.38	19.65	24.03	40.00	15.97	100	196
2	83.94	7.77	15.85	23.62	40.00	16.38	300	265
3	92.09	7.00	16.18	23.18	43.50	20.32	200	358
4	101.30	8.39	16.92	25.31	43.50	18.19	100	2
5	113.62	8.88	18.26	27.14	43.50	16.36	100	284
6	119.93	10.9	18.99	29.89	43.50	13.61	100	324

- 2. The emission levels of other frequencies were greater than 20dB margin.
- 3. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
- 4. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 5. Margin(dB) = Limit[dB $\mu$ V/m] Level [dB $\mu$ V/m]

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### **ABOVE 1GHz DATA**

All modes have been tested, and the worst-case was recorded in this report.

Channel	802.11b CDD CH 1	Frequency	2412MHz
Frequency Range	Above 1G	Detector Function	PK/AV

### Horizontal

NO.	Freq.	Reading	Factor	Level	Limit	Margin	Detector
	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	
1	2373.80	51.13	-1.52	49.61	74.00	24.39	PK
2	2374.29	40.66	-1.52	39.14	54.00	14.86	AV
3	2390.00	39.93	-1.37	38.56	54.00	15.44	AV
4	2390.00	49.17	-1.37	47.80	74.00	26.20	PK
5	2412.86	97.76	-1.19	96.57			PK
6	2413.88	95.64	-1.19	94.45			AV
7	4824.00	43.29	9.58	52.87	74.00	21.13	PK
8	4824.00	34.46	9.58	44.04	54.00	9.96	AV
9	7236.00	21.23	13.96	35.19	54.00	18.81	AV
10	7236.00	30.34	13.96	44.30	74.00	29.70	PK
11	9648.00	27.79	14.33	42.12	74.00	31.88	PK
12	9648.00	20.18	14.33	34.51	54.00	19.49	AV

### Vertical

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector
1	2374.41	51.99	-1.52	50.47	74.00	23.53	PK
2	2383.82	40.90	-1.47	39.43	54.00	14.57	AV
3	2390.00	39.47	-1.37	38.10	54.00	15.90	AV
4	2390.00	49.03	-1.37	47.66	74.00	26.34	PK
5	2412.88	97.46	-1.19	96.27			PK
6	2413.09	95.45	-1.19	94.26			AV
7	4824.00	42.30	9.58	51.88	74.00	22.12	PK
8	4824.00	34.45	9.58	44.03	54.00	9.97	AV
9	7236.00	20.66	13.96	34.62	54.00	19.38	AV
10	7236.00	28.08	13.96	42.04	74.00	31.96	PK
11	9648.00	28.08	14.33	42.41	74.00	31.59	PK
12	9648.00	19.96	14.33	34.29	54.00	19.71	AV

- 2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
- 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 4. Margin(dB) = Limit[dB $\mu$ V/m] Level [dB $\mu$ V/m].



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Channel	802.11b CDD CH 6	Frequency	2437MHz
Frequency Range	Above 1G	Detector Function	PK/AV

### Horizontal

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector
1	4874.00	42.86	9.66	52.52	74.00	21.48	PK
2	4874.00	34.68	9.66	44.34	54.00	9.66	AV
3	7311.00	29.81	12.65	42.46	74.00	31.54	PK
4	7311.00	22.52	12.65	35.17	54.00	18.83	AV
5	9748.00	27.99	14.73	42.72	74.00	31.28	PK
6	9748.00	19.42	14.73	34.15	54.00	19.85	AV

### **Vertical**

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector
1	4874.00	42.55	9.66	52.21	74.00	21.79	PK
2	4874.00	34.35	9.66	44.01	54.00	9.99	AV
3	7311.00	29.24	12.65	41.89	74.00	32.11	PK
4	7311.00	22.11	12.65	34.76	54.00	19.24	AV
5	9748.00	20.01	14.73	34.74	54.00	19.26	AV
6	9748.00	26.66	14.73	41.39	74.00	32.61	PK

- 2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
- 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 4. Margin(dB) = Limit[dB $\mu$ V/m] Level [dB $\mu$ V/m]



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Channel	802.11b CDD CH 11	Frequency	2462MHz
Frequency Range	Above 1G	Detector Function	PK/AV

### Horizontal

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector
1	2462.87	95.69	-1.08	94.61		•	PK
2	2462.93	93.91	-1.08	92.83			AV
3	2483.50	48.30	-1.15	47.15	74.00	26.85	PK
4	2483.50	41.99	-1.15	40.84	54.00	13.16	AV
5	2484.82	47.84	-1.08	46.76	74.00	27.24	PK
6	2485.35	38.29	-1.05	37.24	54.00	16.76	AV
7	4824.00	43.11	10.19	53.30	74.00	20.70	PK
8	4824.00	34.67	10.19	44.86	54.00	9.14	AV
9	7236.00	21.57	11.57	33.14	54.00	20.86	AV
10	7236.00	29.48	11.57	41.05	74.00	32.95	PK
11	9648.00	27.30	14.74	42.04	74.00	31.96	PK
12	9648.00	19.40	14.74	34.14	54.00	19.86	AV

### Vertical

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector
1	2462.89	100.20	-1.08	99.12			PK
2	2463.03	98.41	-1.07	97.34			AV
3	2483.50	39.27	-1.15	38.12	54.00	15.88	AV
4	2483.50	46.23	-1.15	45.08	74.00	28.92	PK
5	2484.47	39.12	-1.09	38.03	54.00	15.97	AV
6	2485.03	48.06	-1.07	46.99	74.00	27.01	PK
7	4924.00	34.46	10.19	44.65	54.00	9.35	AV
8	4924.00	42.36	10.19	52.55	74.00	21.45	PK
9	7386.00	21.53	11.57	33.10	54.00	20.90	AV
10	7386.00	29.05	11.57	40.62	74.00	33.38	PK
11	9848.00	19.49	14.74	34.23	54.00	19.77	AV
12	9848.00	28.19	14.74	42.93	74.00	31.07	PK

- 2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
- 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 4. Margin(dB) = Limit[dB $\mu$ V/m] Level [dB $\mu$ V/m]



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All modes have been tested, and the worst-case was recorded in this report.

Channel	BT-LE(1Mbps) CH0	Frequency	2402MHz
Frequency Range	Above 1G	Detector Function	PK/AV

### Horizontal

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector
1	2361.74	50.84	-1.27	49.57	74.00	24.43	PK
2	2361.79	40.52	-1.27	39.25	54.00	14.75	AV
3	2390.00	48.14	-1.37	46.77	74.00	27.23	PK
4	2390.00	39.56	-1.37	38.19	54.00	15.81	AV
5	2401.46	92.50	-1.26	91.24			PK
6	2401.87	90.51	-1.26	89.25			AV
7	4804.00	42.43	9.19	51.62	74.00	22.38	PK
8	4804.00	34.01	9.19	43.20	54.00	10.80	AV
9	7206.00	28.57	14.32	42.89	74.00	31.11	PK
10	7206.00	20.38	14.32	34.70	54.00	19.30	AV
11	9608.00	29.01	14.44	43.45	74.00	30.55	PK
12	9608.00	20.43	14.44	34.87	54.00	19.13	AV

### Vertical

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector
1	2382.73	41.19	-1.48	39.71	54.00	14.29	AV
2	2385.46	50.81	-1.44	49.37	74.00	24.63	PK
3	2390.00	48.18	-1.37	46.81	74.00	27.19	PK
4	2390.00	39.48	-1.37	38.11	54.00	15.89	AV
5	2401.80	89.82	-1.26	88.56			AV
6	2402.50	92.10	-1.25	90.85			PK
7	4804.00	42.75	9.19	51.94	74.00	22.06	PK
8	4804.00	34.36	9.19	43.55	54.00	10.45	AV
9	7206.00	28.93	14.32	43.25	74.00	30.75	PK
10	7206.00	20.70	14.32	35.02	54.00	18.98	AV
11	9608.00	27.26	14.44	41.70	74.00	32.30	PK
12	9608.00	19.86	14.44	34.30	54.00	19.70	AV

- 2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
- 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 4. Margin(dB) = Limit[dB $\mu$ V/m] Level [dB $\mu$ V/m]



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Channel	BT-LE(1Mbps) CH19	Frequency	2440MHz
Frequency Range	Above 1G	Detector Function	PK/AV

### Horizontal

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector
1	4880.00	42.37	9.75	52.12	74.00	21.88	PK
2	4880.00	34.20	9.75	43.95	54.00	10.05	AV
3	7320.00	21.31	12.66	33.97	54.00	20.03	AV
4	7320.00	30.16	12.66	42.82	74.00	31.18	PK
5	9760.00	27.36	14.77	42.13	74.00	31.87	PK
6	9760.00	19.32	14.77	34.09	54.00	19.91	AV

### Vertical

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector
1	4880.00	42.86	9.75	52.61	74.00	21.39	PK
2	4880.00	34.35	9.75	44.10	54.00	9.90	AV
3	7320.00	29.37	12.66	42.03	74.00	31.97	PK
4	7320.00	21.90	12.66	34.56	54.00	19.44	AV
5	9760.00	27.76	14.77	42.53	74.00	31.47	PK
6	9760.00	19.39	14.77	34.16	54.00	19.84	AV

- 2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
- 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 4. Margin(dB) = Limit[dB $\mu$ V/m] Level [dB $\mu$ V/m]



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Channel	BT-LE(1Mbps) CH39	Frequency	2480MHz
Frequency Range	Above 1G	Detector Function	PK/AV

# Horizontal

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector
1	2479.88	90.61	-1.30	89.31			AV
2	2480.49	92.24	-1.28	90.96			PK
3	2483.50	39.32	-1.15	38.17	54.00	15.83	AV
4	2483.50	45.46	-1.15	44.31	74.00	29.69	PK
5	2494.22	38.11	-0.92	37.19	54.00	16.81	AV
6	2495.01	47.22	-0.94	46.28	74.00	27.72	PK
7	4960.00	42.44	10.78	53.22	74.00	20.78	PK
8	4960.00	34.13	10.78	44.91	54.00	9.09	AV
9	7440.00	21.85	11.55	33.40	54.00	20.60	AV
10	7440.00	30.37	11.55	41.92	74.00	32.08	PK
11	9920.00	28.51	15.37	43.88	74.00	30.12	PK
12	9920.00	19.63	15.37	35.00	54.00	19.00	AV

### Vertical

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector
1	2479.59	96.22	-1.29	94.93			PK
2	2479.81	93.79	-1.30	92.49			AV
3	2483.50	36.84	-1.15	35.69	54.00	18.31	AV
4	2483.50	46.84	-1.15	45.69	74.00	28.31	PK
5	2485.16	48.76	-1.06	47.70	74.00	26.30	PK
6	2487.75	37.82	-0.95	36.87	54.00	17.13	AV
7	4960.00	42.12	10.78	52.90	74.00	21.10	PK
8	4960.00	34.20	10.78	44.98	54.00	9.02	AV
9	7440.00	21.72	11.55	33.27	54.00	20.73	AV
10	7440.00	29.51	11.55	41.06	74.00	32.94	PK
11	9920.00	27.66	15.37	43.03	74.00	30.97	PK
12	9920.00	19.92	15.37	35.29	54.00	18.71	AV

- 2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
- 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 4. Margin(dB) = Limit[dB $\mu$ V/m] Level [dB $\mu$ V/m]

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# 3.2 6dB BANDWIDTH MEASUREMENT

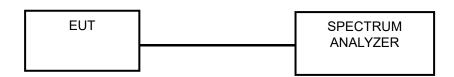
# **3.2.1 Limits**

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

# 3.2.2 Measurement procedure

- a. Set resolution bandwidth (RBW) = 100KHz
- b. Set the video bandwidth (VBW)  $\geq$  3 x RBW, Detector = Peak.
- c. Trace mode = max hold.
- d. Sweep = auto couple.
- e. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

# 3.2.3 Test setup



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# 3.3 CONDUCTED OUTPUT POWER

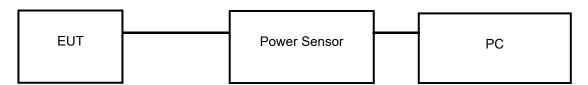
### **3.3.1 Limits**

For systems using digital modulation in the 2400–2483.5 MHz band: 1 Watt (30dBm).

# 3.3.2 Measurement procedure

- a. A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor and set the detector to PEAK. Record the power level.
- b. An average power sensor was used on the output port of the EUT. A power meter was used to read the response of the average power sensor and set the detector to AVERAGE. Record the power level.

# 3.3.3 Test setup



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# 3.4 POWER SPECTRAL DENSITY MEASUREMENT

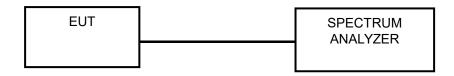
### **3.4.1 Limits**

The Maximum of Power Spectral Density Measurement is 8dBm/3KHz.

# 3.4.2 Measurement procedure

- a. Set instrument center frequency to DTS channel center frequency.
- b. Set the span to 1.5 times the DTS bandwidth.
- c. Set RBW to: 3KHz
- d. Set VBW ≥3 x RBW.
- e. Detector = peak
- f.Ensure that the number of measurement points in the sweep  $\geq 2 \times \text{span/RBW}$ .
- g. Sweep time = auto couple.
- h. Use the peak marker function to determine the maximum amplitude level.

### 3.4.3 Test setup



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# 3.5 OUT OF BAND EMISSION AND BAND EDGE MEASUREMENTS

### **3.5.1 Limits**

Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

# 3.5.2 Measurement procedure

### **Measurement Procedure -Reference Level**

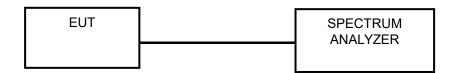
- a. Set the RBW = 100 kHz.
- b. Set the VBW ≥ 300 kHz.
- c. Detector = peak.
- d. Sweep time = auto couple.
- e. Trace mode = max hold.
- f.Allow trace to fully stabilize.
- g. Use the peak marker function to determine the maximum power level in any 100 kHzband segment within the fundamental EBW.

### Measurement Procedure - Unwanted Emission Level

- a. Set RBW = 100 kHz.
- b. Set VBW ≥ 300 kHz.
- c. Set span to encompass the spectrum to be examined
- d. Detector = peak.
- e. Trace Mode = max hold.

f.Sweep = auto couple.

# 3.5.3 Test setup



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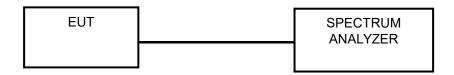
# 3.6 OCCUPIED BANDWIDTH MEASUREMENT

# 3.6.1 Measurement procedure

The transmitter antenna output was connected to the spectrum analyzer through an attenuator. The resolution bandwidth shall be set to the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth.

below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

# 3.6.2 Test setup



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# 3.7 ANTENNA REQUIREMENT

# 3.7.1 LIMITS OF ANTENNA REQUIREMENT

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 3.7.2 ANTENNA ANTI-REPLACEMENT CONSTRUCTION

The antenna used for this product is External antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the external antenna of this product cannot be removed without authorization.

### 3.7.3 ANTENNA GAIN

The maximum peak gain of the transmit antenna is 3.74 dBi.

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# 4 PHOTOGRAPHS OF TEST SETUP

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

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# 5 PHOTOGRAPHS OF THE EUT

----- End of the Report -----

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# **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 tester, reviewer and approver;
- (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 results apply to the samples as received. The sample information is provided by the customer and laboratory is not responsible for its authenticity;
- (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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