

TEST REPORT

Report No.: BCTC2108406800E

Applicant: Shenzhen Creality 3D Technology Co., Ltd.

Product Name: 3D Printer

Model/Type reference: HALOT-LITE

Tested Date: 2021-08-10 to 2021-08-23

Issued Date: 2021-08-23



Shenzhen BC Testing Co., Ltd.

No.: BCTC/RF-EMC-005 Page: 1 of 60 / / / / / Edition: A.



FCC ID: 2AXH6HALOT-LITE

Product Name: 3D Printer

Trademark: CREALITY

Model/Type Ref.: HALOT-LITE

Prepared For: Shenzhen Creality 3D Technology Co., Ltd.

Address: 18F, JinXiuHongDu Building, Meilong Blvd., Longhua Dist.,

Shenzhen, China 518131

Manufacturer: Shenzhen Creality 3D Technology Co., Ltd.

Address: 18F, JinXiuHongDu Building, Meilong Blvd., Longhua Dist.,

Shenzhen, China 518131

Prepared By: Shenzhen BCTC Testing Co., Ltd.

1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan

Address: 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District,

Shenzhen, Guangdong, China

Sample Received Date: 2021-08-10

Sample tested Date: 2021-08-10 to 2021-08-23

Issue Date: 2021-08-23

Report No.: BCTC2108406800E

Test Standards FCC Part15.247
ANSI C63.10-2013

Test Results PASS

Remark: This is WIFI-2.4GHz band radio test report.

Tested by:

Willem Wong

Willem Wang/Project Handler

Approved by:

Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

No.: BCTC/RF-EMC-005 Page: 2 of 60 / / / / / / Édition: A:3



TABLE OF CONTENT

Test I	Report Declaration	Page
1.	VERSION	5
2.	TEST SUMMARY	6
3.	MEASUREMENT UNCERTAINTY	
4.	PRODUCT INFORMATION AND TEST SETUP	
4.1	Product Information	8
4.2	Test Setup Configuration	8
4.3	Support Equipment	9
4.4	Channel List	
4.5	Test Mode	10
4.6	table of parameters of text software setting	10
5.	TEST FACILITY AND TEST INSTRUMENT USED	11
5.1	Test Facility	11
5.2	Test Instrument Used	
6.	CONDUCTED EMISSIONS	13
6.1	Block Diagram Of Test Setup	13
6.2	Limit	13
6.3	Test procedure	13
6.4	EUT operating Conditions	13
6.5	Test Result	14
7.	RADIATED EMISSIONS	16
7.1	Block Diagram Of Test Setup	
7.2	Limit	
7.3	Test procedure	
7.4	EUT operating Conditions	
7.5	Test Result	
8.	RADIATED BAND EMISSION MEASUREMENT AND RESTRICTED BAN	
	OPERATION	
8.1	Block Diagram Of Test Setup	
8.2	<u>Limit</u>	26
8.3	Test procedure	27
8.4	EUT operating Conditions Test Result	27
8.5	Test Result	28
9.	POWER SPECTRAL DENSITY TEST	29
9.1	Block Diagram Of Test Setup	29
9.2	Limit	29
9.3	Test procedure	
9.4	EUT operating Conditions	
9.5	Test Result	30
10.	BANDWIDTH TEST	36

No.: BCTC/RF-EMC-005 Page: 3 of 60 / / / / Edition: A



	Report No.:	BCTC2108406800F
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10.1	Block Diagram Of Test Setup	. 36
10.2		
10.3	Test procedure	. 36
10.4		
10.5		. 37
11.	PEAK OUTPUT POWER TEST	. 43
11.1	Block Diagram Of Test Setup	
11.2	Limit	. 43
11.3	Test procedure	. 43
11.4	EUT operating Conditions	. 43
11.5		
12.	100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE	. 45
12.1	Block Diagram Of Test Setup	. 45
12.2	Limit	. 45
12.3	Test procedure	. 45
12.4	EUT operating Conditions	. 45
12.5	Test Result	. 46
13.	DUTY CYCLE OF TEST SIGNAL	. 52
13.1	Standard requirement	
13.2	Formula	. 52
13.3		
13.4	Test Result	. 52
14.	ANTENNA REQUIREMENT	. 55
14.1	Limit	
14.1	Test Result	
15.	EUT PHOTOGRAPHS	. 56
16	ELIT TEST SETUD DUOTOCDADUS	5 0

(Note: N/A means not applicable)

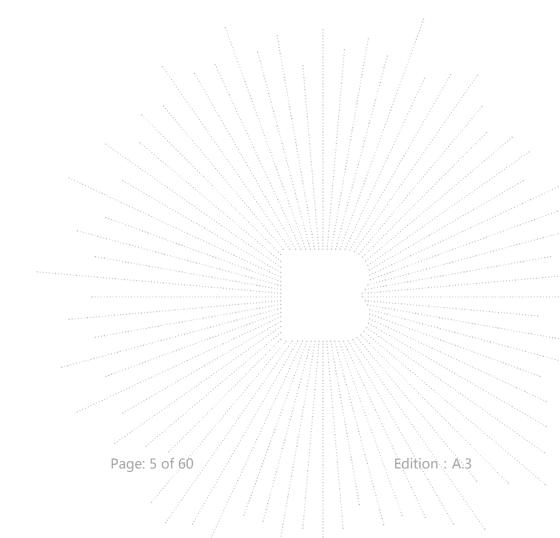
No.: BCTC/RF-EMC-005 Page: 4 of 60

Edition: A.3



1. VERSION

Report No.	Issue Date	Description	Approved
BCTC2108406800E	2021-08-23	Original	Valid



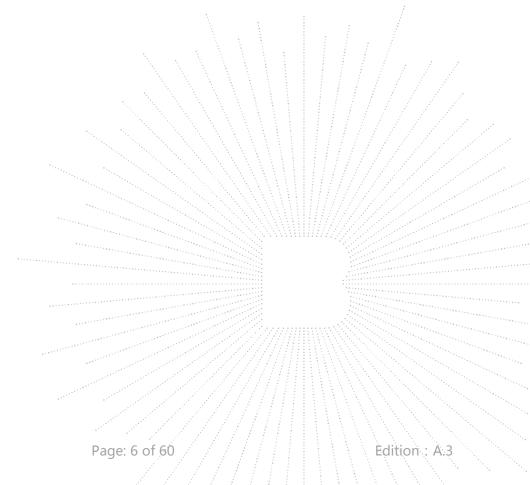
No.: BCTC/RF-EMC-005



2. TEST SUMMARY

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No	Results
1	Conducted Emission	15.207	PASS
2	6dB Bandwidth	15.247 (a)(2)	PASS
3	Peak Output Power	15.247 (b)	PASS
4	Radiated Spurious Emission	15.247 (d)	PASS
5	Power Spectral Density	15.247 (e)	PASS
6	Restricted Band of Operation	15.205	PASS
7	Band Edge (Out of Band Emissions)	15.247 (d)	PASS
8	Antenna Requirement	15.203	PASS



No.: BCTC/RF-EMC-005



3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
2	3m chamber Radiated spurious emission(9KHz-30MHz)	U=3.7dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
5	Conducted Emission (150kHz-30MHz)	U=3.20dB
6	Conducted Adjacent channel power	U=1.38dB
7	Conducted output power uncertainty Above 1G	U=1.576dB
8	Conducted output power uncertainty below 1G	U=1.28dB
9	humidity uncertainty	U=5.3%
10	Temperature uncertainty	U=0.59°C

No.: BCTC/RF-EMC-005 Page: 7 of 60 / / / / Edition: A.



4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model/Type Ref.: HALOT-LITE

Model differences: N/A
Hardware Version: N/A
Software Version: N/A

Operation Frequency: 802.11b/g/n20MHz:2412~2462 MHz

Bit Rate of Transmitter 802.11b:11/5.5/2/1 Mbps

802.11g:54/48/36/24/18/12/9/6Mbps

802.11n Up to 75Mbps

Type of Modulation: WIFI: OFDM/DSSS

Number Of Channel 802.11b/g/n20MHz:11 CH

Antenna installation: WIFI: FPCB antenna

Antenna Gain: WIFI: 2.54dBi

Ratings: AC 100-240V 50/60Hz

4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

Conducted Emission:

E-1 AC EUT

Radiated Spurious Emission

E-1 AC EUT

No.: BCTC/RF-EMC-005 Page: 8 of 60 / / / / / Édition: A:3



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Data Cable	Remark
E-1	3D Printer	CREALITY	HALOT- LITE	N/A	EUT	E-1

Notes:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Channel List

	Channel List for 802.11b/g/n(20)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)			
01	2412	02	2417	03	2422			
04	2427	05	2432	06	2437			
07	2442	08	2447	09	2452			
10	2457	11	2462	1	· · /			

No.: BCTC/RF-EMC-005 Page: 9 of 60 / / / Edition: A.



4.5 Test Mode

Report No.: BCTC2108406800E

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description	
Mode 1	802.11b CH1/ CH6/ CH11	
Mode 2	802.11g CH1/ CH6/ CH11	
Mode 3	802.11n20 CH1/ CH6/ CH11	
Mode 4	Link Mode	

Radiated Emission			
Final Test Mode Description			
Mode 4	Link Mode		

For Radiated Emission				
Final Test Mode Description				
Mode 1	802.11b CH1/ CH6/ CH11			
Mode 2 802.11g CH1/ CH6/ CH11				
Mode 3	802.11n20 CH1/ CH6/ CH11			

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

4.6 table of parameters of text software setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Test software Version		CMD	
Frequency	2412 MHz	2437 MHz	2462 MHz
Parameters	DEF	DEF	DEF

No. : BCTC/RF-EMC-005 Page: 10 of 60 / / / / Edition : A.



5. TEST FACILITY AND TEST INSTRUMENT USED

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address:1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

IC Registered No.: 23583

5.2 Test Instrument Used

Conducted emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 28, 2021	May 27, 2022
LISN	R&S	ENV216	101375	May 28, 2021	May 27, 2022
ISN	HPX	ISN T800	S1509001	May 28, 2021	May 27, 2022
Software	Frad	EZ-EMC	EMC-CON 3A1	<u>, </u>	/ \

RF conducted test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Metter	Keysight	E4419B		May 28, 2021	May 27, 2022
Power Sensor (AV)	Keysight	E9 300A		May 28, 2021	May 27, 2022
Signal Analyzer 20kHz-26.5GHz	KEYSIGHT	N9020A	MY4910006 0	May 28, 2021	May 27, 2022
Spectrum Analyzer 9kHz-40GHz	R&S	FSP40	100363	May 28, 2021	May 27, 2022

No.: BCTC/RF-EMC-005 Page: 11 of 60 / / / Edition: A.



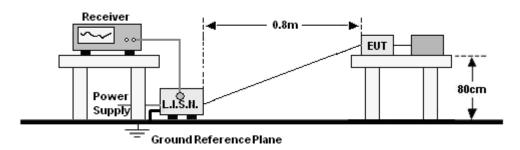
Radiated emissions Test (966 chamber)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023
Receiver	R&S	ESR3	102075	May 28, 2021	May 27, 2022
Receiver	R&S	ESRP	101154	May 28, 2021	May 27, 2022
Amplifier	Schwarzbeck	BBV9718	9718-309	May 28, 2021	May 27, 2022
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 28, 2021	May 27, 2022
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	VULB9163 -942	Jun. 01, 2021	May 31, 2022
Horn Antenna	SCHWARZBE CK	BBHA9120 D	1541	Jun. 02, 2021	Jun. 01, 2022
Horn Antenna (18GHz-40 GHz)	SCHWARZBE CK	BBHA9170	822	Jun. 15, 2021	Jun. 14, 2022
Amplifier (18GHz-40 GHz)	MITEQ	TTA1840-3 5-HG	2034381	May 28, 2021	May 27, 2022
Loop Antenna (9KHz-30M Hz)	SCHWARZBE CK	FMZB1519 B	014	Jun. 02, 2021	Jun. 01, 2022
RF cables1 (9kHz-30MH z)	Huber+Suhnar	9kHz-30M Hz	B1702988- 0008	May 28, 2021	May 27, 2022
RF cables2 (30MHz-1G Hz)	Huber+Suhnar	30MHz-1G Hz	1486150	May 28, 2021	May 27, 2022
RF cables3 (1GHz-40G Hz)	Huber+Suhnar	1GHz-40G Hz	1607106	May 28, 2021	May 27, 2022
Power Metter	Keysight	E4419B		May 28, 2021	May 27, 2022
Power Sensor (AV)	Keysight	E9 300A		May 28, 2021	May 27, 2022
Signal Analyzer 20kHz-26.5 GHz	KEYSIGHT	N9020A	MY491000 60	May 28, 2021	May 27, 2022
Spectrum Analyzer 9kHz-40G Hz	R&S	FSP40	100363	May 28, 2021	May 27, 2022
Software	Frad	EZ-EMC	FA-03A2 RE		1

No.: BCTC/RF-EMC-005 Page: 12 of 60 / / / Edition: A.



6. CONDUCTED EMISSIONS

6.1 Block Diagram Of Test Setup



6.2 Limit

FREQUENCY (MHz)	Limit (dBuV)		
TREGOLINGT (IVII 12)	Quas-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	
5.0 -30.0	60.00	50.00	

Notes:

- 1. *Decreasing linearly with logarithm of frequency.
- 2. The lower limit shall apply at the transition frequencies.

6.3 Test procedure

Receiver Parameters	Setting
Attenuation	10 dB / / / /
Start Frequency	\ \ \ \ \ 0.15 MHz / / / /
Stop Frequency	30 MHz////////////////////////////////////
IF Bandwidth	9 kHz / / / / / / / / / / / / / / / / / / /

- a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

6.4 EUT operating Conditions

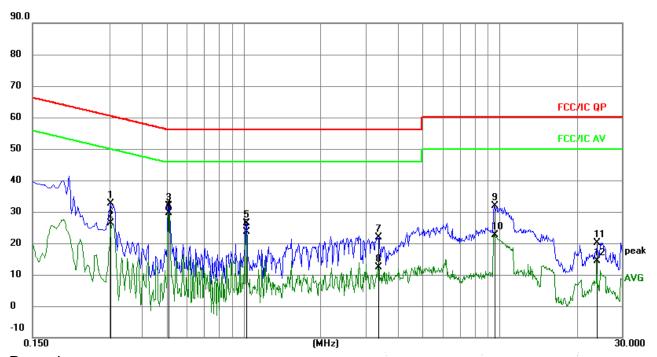
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

No.: BCTC/RF-EMC-005 Page: 13 of 60 / / / Edition: A.3



6.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	AC120V/60Hz	Test Mode:	Mode 4



Remark:

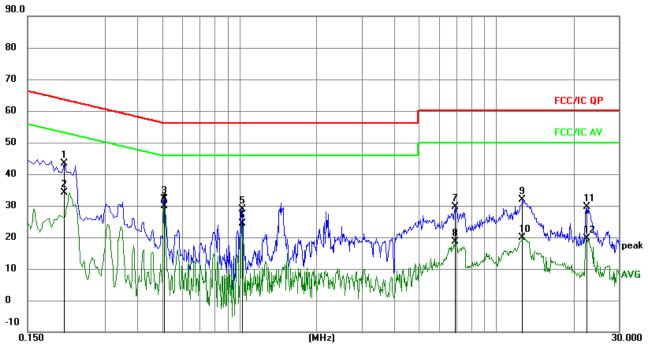
All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz		dB	dBuV	dBu∀	dB	Detector
1	0.3030	22.90	9.61	32.51	60.16	-27.65	QP
2	0.3030	16.85	9.61	26.46	50.16	-23.70	AVG
3	0.5100	22.36	9.62	31.98	56.00	-24.02	QP
4 *	0.5100	19.89	9.62	29.51	46.00	-16.49	AVG
5	1.0230	16.75	9.63	26.38	56.00	-29.62	QP
6	1.0230	13.90	9.63	23.53	46.00	-22.47	AVG
7	3.3630	12.33	9.67	22.00	56.00	-34.00	QP
8	3.3630	2.62	9.67	12.29	46.00	-33.71	AVG
9	9.5055	22.10	9.79	31.89	60.00	-28.11	QP
10	9.5055	12.78	9.79	22.57	50.00	-27.43	AVG
11	24.0000	10.36	9.74	20.10	60.00	-39.90	QP
12	24.0000	4.68	9.74	14.42	50.00	-35.58	AVG

Page: 14 of 60 No.: BCTC/RF-EMC-005 Edition: A.3



Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage :	AC120V/60Hz	Test Mode:	Mode 4



Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz		dB	dBu∀	dBu∀	dB	Detector
1	0.2083	33.65	9.61	43.26	63.27	-20.01	QP
2	0.2083	24.50	9.61	34.11	53.27	-19.16	AVG
3	0.5074	22.43	9.62	32.05	56.00	-23.95	QP
4 *	0.5074	20.26	9.62	29.88	46.00	-16.12	AVG
5	1.0211	19.16	9.63	28.79	56.00	-27.21	QP
6	1.0211	14.78	9.63	24.41	46.00	-21.59	AVG
7	6.9141	19.96	9.74	29.70	60.00	-30.30	QP
8	6.9141	8.79	9.74	18.53	50.00	-31.47	AVG
9	12.6489	22.19	9.79	31.98	60.00	-28.02	QP
10	12.6489	10.10	9.79	19.89	50.00	-30.11	AVG
11	22.5353	19.81	9.74	29.55	60.00	-30.45	QP
12	22.5353	9.92	9.74	19.66	50.00	-30.34	AVG

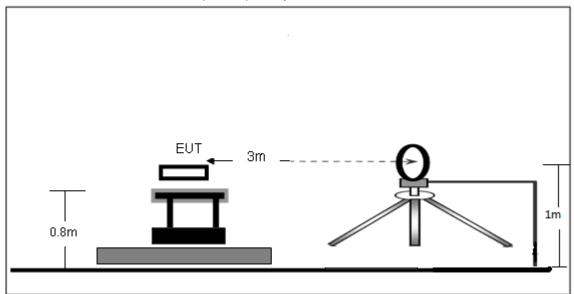
No.: BCTC/RF-EMC-005



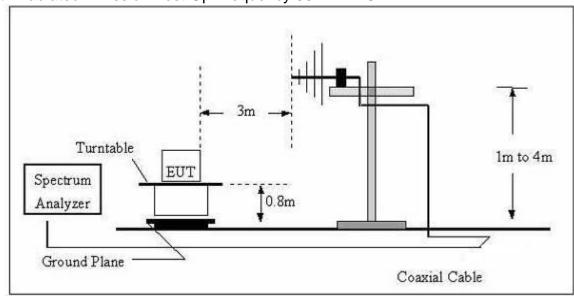
7. RADIATED EMISSIONS

7.1 Block Diagram Of Test Setup

(A) Radiated Emission Test-Up Frequency Below 30MHz



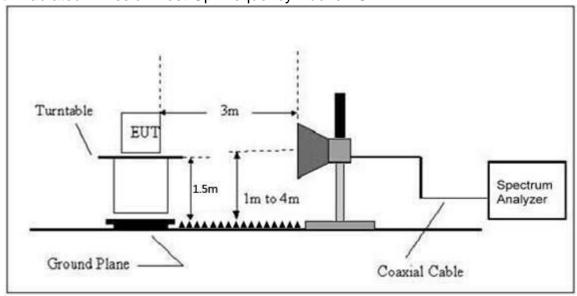
(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



No.: BCTC/RF-EMC-005 Page: 16 of 60 / / / Edition: A



(C) Radiated Emission Test-Up Frequency Above 1GHz



7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency	Field Strength	Distance	Field Strength Limit at 3m Distance		
(MHz)	uV/m	(m)	uV/m	dBuV/m	
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	20log ^{(2400/F(kHz))} + 80	
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	20log ^{(24000/F(kHz))} + 40	
1.705 ~ 30	30	30	100 * 30	20log ⁽³⁰⁾ + 40	
30 ~ 88	100	3	100	20log ⁽¹⁰⁰⁾	
88 ~ 216	150	3	150	20log ⁽¹⁵⁰⁾	
216 ~ 960	200	3	200	20log ⁽²⁰⁰⁾	
Above 960	500	3	500	20log ⁽⁵⁰⁰⁾	

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENC	Limit (dBuV/m) (at 3M)			, , ,
Y (MHz)	PEAK	A۷	'ERAGE	
Above 1000	74		54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

No.: BCTC/RF-EMC-005 Page: 17 of 60 / / / / Edition: A.



FREQUENCY RANGE OF RADIATED MEASUREMENT

(a) For an intentional radiator

the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in this paragraph:

- (1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- (2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
- (3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.
- (4) If the intentional radiator operates at or above 95 GHz: To the third harmonic of the highest fundamental frequency or to 750 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.
- (5) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a) (1)through (4) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this section, whichever is the higher frequency range of investigation.

7.3 Test procedure

Receiver Parameter	Setting
Attenuation	Auto :
9kHz~150kHz	RBW 200Hz for QP
150kHz~30MHz	RBW 9kHz for QP
30MHz~1000MHz	RBW 120kHz for QP

Spectrum Parameter	Setting
1-25GHz	RBW 1 MHz /VBW 1 MHz for Peak, RBW 1 MHz / VBW 10Hz for Average

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. 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. The antenna 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.

No. : BCTC/RF-EMC-005 Page: 18 of 60 / / / / / Edition : A.



- 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. 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. The antenna 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 rota 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. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g.Test the EUT in the lowest channel, the middlest channel, the Highest channel.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

7.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

No. : BCTC/RF-EMC-005 Page: 19 of 60 / / / / / Edition : A.



Below 30MHz

Temperature:	26 ℃	Relative Humidtity:	24%
Pressure:	101 kPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 4	Polarization :	

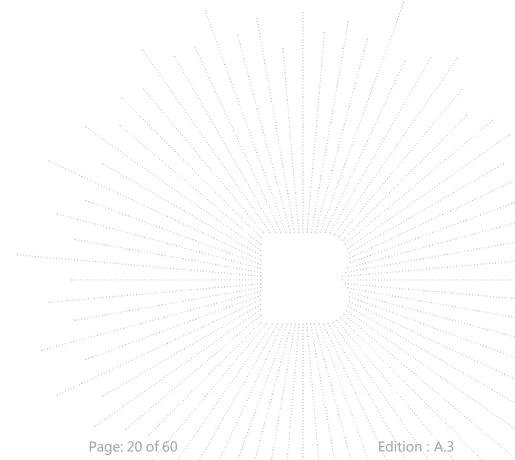
Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

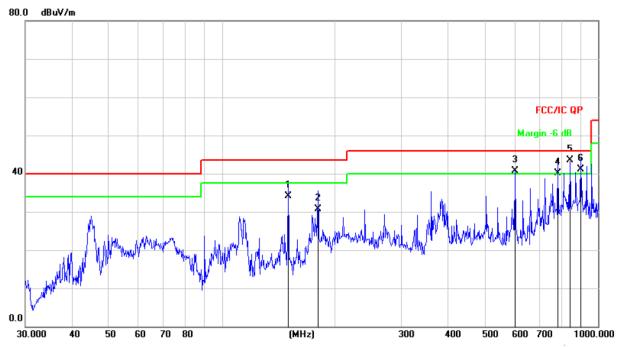


No.: BCTC/RF-EMC-005



Between 30MHz - 1GHz

Temperature:	26℃	Relative Humidtity:	54%
Pressure:	101 kPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 4	Polarization:	Horizontal



Remark:

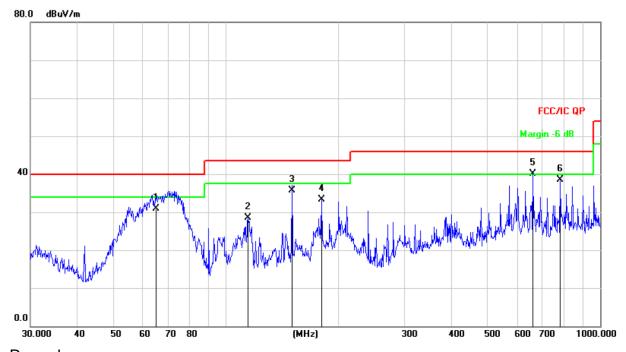
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mł	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB	dBu∀/m	dB/m	dB	Detector
1		149.9708	53.57	-19.49	34.08	43.50	-9.42	QP
2		179.9765	47.81	-17.07	30.74	43.50	-12.76	QP
3	ļ	601.4265	46.59	-5.98	40.61	46.00	-5.39	QP
4	ļ	780.0273	42.39	-2.31	40.08	46.00	-5.92	QP
5	*	840.0116	44.60	-1.02	43.58	46.00	-2.42	QP
6	ļ	900.0074	40.74	0.46	41.20	46.00	-4.80	QP

No.: BCTC/RF-EMC-005 Page: 21 of 60 / / / / Edition: A.3



Temperature:	26 ℃	Relative Humidtity:	54%
Pressure:	101 kpa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 4	Polarization :	Vertical



Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mł	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB	dBu∀/m	dB/m	dB	Detector
1		64.8997	48.16	-17.35	30.81	40.00	-9.19	QP
2		114.5146	45.61	-17.11	28.50	43.50	-15.00	QP
3		150.0108	55.19	-19.49	35.70	43.50	-7.80	QP
4		180.0165	50.44	-17.06	33.38	43.50	-10.12	QP
5	*	661.1505	44.71	-4.55	40.16	46.00	-5.84	QP
6		782.3453	40.77	-2.27	38.50	46.00	-7.50	QP

No.: BCTC/RF-EMC-005 Page: 22 of 60 / / / Edition: A.



Between 1GHz – 25GHz **802.11b**

Polar	Frequency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	Туре
		Low	v channel:2	412MHz			
V	4824.00	53.33	-0.43	52.90	74.00	-21.10	PK
V	4824.00	44.40	-0.43	43.97	54.00	-10.03	AV
V	7236.00	45.73	8.31	54.04	74.00	-19.96	PK
V	7236.00	35.81	8.31	44.12	54.00	-9.88	AV
Н	4804.00	51.43	-0.43	51.00	74.00	-23.00	PK
Н	4804.00	41.85	-0.43	41.42	54.00	-12.58	AV
Н	7236.00	43.76	8.31	52.07	74.00	-21.93	PK
Н	7236.00	35.17	8.31	43.48	54.00	-10.52	AV
			le channel:	2437MHz			_
V	4874.00	50.55	-0.38	50.17	74.00	-23.83	PK
V	4874.00	42.26	-0.38	41.88	54.00	-12.12	AV
V	7311.00	43.15	8.83	51.98	74.00	-22.02	PK
V	7311.00	34.94	8.83	43.77	54.00	-10.23	AV
Н	4874.00	46.27	-0.38	45.89	74.00	-28.11	PK
Н	4874.00	35.68	-0.38	35.30	54.00	-18.70	AV
Н	7311.00	40.70	8.83	49.53	74.00	-24.47	PK
Η	7311.00	33.33	8.83	42.16	54.00	-11.84	AV
			n channel:2		:		/
V	4924.00	51.69	-0.32	51.37	74.00	-22.63	PK
V	4924.00	42.45	-0.32	42.13	54.00	-11.87	AV
V	7386.00	42.71	9.35	52.06	74.00	-21.94	PK
V	7386.00	32.83	9.35	42.18	54.00	-11.82	AV
Н	4924.00	50.65	-0.32	50.33	74.00	-23.67	PK
Н	4924.00	40.29	-0.32	39.97	54.00	-14.03	AV
Н	7386.00	41.36	9.35	50.71	74.00	-23.29	PK
Н	7386.00	34.17	9.35	43.52	54.00	-10.48	AV

Remark:

1.Emission Level = Meter Reading + Factor,

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Over= Emission Level - Limit

- 2.If peak below the average limit, the average emission was no test.
- 3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB
- 4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 5.All the Modulation are test, the worst mode is 802.11b, the data recording in the report.

No.: BCTC/RF-EMC-005 Page: 23 of 60 / / / / Edition: A.3



802.11g

Polar	Frequency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	Туре
		Lov	v channel:2	412MHz			
V	4824.00	54.65	-0.43	54.22	74.00	-19.78	PK
V	4824.00	43.73	-0.43	43.30	54.00	-10.70	AV
V	7236.00	47.19	8.31	55.50	74.00	-18.50	PK
V	7236.00	36.45	8.31	44.76	54.00	-9.24	AV
Н	4804.00	51.39	-0.43	50.96	74.00	-23.04	PK
Н	4804.00	41.04	-0.43	40.61	54.00	-13.39	AV
Н	7236.00	45.44	8.31	53.75	74.00	-20.25	PK
Н	7236.00	38.19	8.31	46.50	54.00	-7.50	AV
			le channel:	2437MHz			
V	4874.00	53.20	-0.38	52.82	74.00	-21.18	PK
V	4874.00	45.89	-0.38	45.51	54.00	-8.49	AV
V	7311.00	45.29	8.83	54.12	74.00	-19.88	PK
V	7311.00	35.91	8.83	44.74	54.00	-9.26	AV
Н	4874.00	48.69	-0.38	48.31	74.00	-25.69	PK
Н	4874.00	38.07	-0.38	37.69	54.00	-16.31	AV
Н	7311.00	44.16	8.83	52.99	74.00	-21.01	PK
Н	7311.00	36.98	8.83	45.81	54.00	-8.19	AV
			n channel:2		:		/
V	4924.00	55.02	-0.32	54.70	74.00	-19.30	PK
V	4924.00	45.04	-0.32	44.72	54.00	-9.28	AV
V	7386.00	48.91	9.35	58.26	74.00	-15.74	PK
V	7386.00	38.73	9.35	48.08	54.00	-5.92	AV
Н	4924.00	53.94	-0.32	53.62	74.00	-20.38	PK
Н	4924.00	44.48	-0.32	44.16	54.00	-9.84	AV
Н	7386.00	47.28	9.35	56.63	74.00	-17.37	PK
Н	7386.00	38.98	9.35	48.33	54.00	-5.67	AV

Remark:

1.Emission Level = Meter Reading + Factor,

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Over= Emission Level - Limit

- 2.If peak below the average limit, the average emission was no test.
- 3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB
- 4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 5.All the Modulation are test, the worst mode is 802.11b, the data recording in the report.

No.: BCTC/RF-EMC-005 Page: 24 of 60 / / / Edition: A.3



802.11n20

	002.111120						
Polar	Frequency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	Туре
		Low	/ channel:2	412MHz			
V	4824.00	52.01	-0.43	51.58	74.00	-22.42	PK
V	4824.00	43.61	-0.43	43.18	54.00	-10.82	AV
V	7236.00	41.65	8.31	49.96	74.00	-24.04	PK
V	7236.00	30.70	8.31	39.01	54.00	-14.99	AV
Н	4804.00	48.57	-0.43	48.14	74.00	-25.86	PK
Н	4804.00	37.82	-0.43	37.39	54.00	-16.61	AV
Н	7236.00	40.38	8.31	48.69	74.00	-25.31	PK
Н	7236.00	32.40	8.31	40.71	54.00	-13.29	AV
		Midd	le channel:	2437MHz			
V	4874.00	48.24	-0.38	47.86	74.00	-26.14	PK
V	4874.00	41.64	-0.38	41.26	54.00	-12.74	AV
V	7311.00	38.16	8.83	46.99	74.00	-27.01	PK
V	7311.00	28.58	8.83	37.41	54.00	-16.59	AV
Н	4874.00	47.01	-0.38	46.63	74.00	-27.37	PK
Н	4874.00	37.97	-0.38	37.59	54.00	-16.41	AV
Н	7311.00	36.49	8.83	45.32	74.00	-28.68	PK
Н	7311.00	27.77	8.83	36.60	54.00	-17.40	AV
		Higl	n channel:2	462MHz			
V	4924.00	49.72	-0.32	49.40	74.00	-24.60	PK
V	4924.00	41.32	-0.32	41.00	54.00	-13.00	AV
V	7386.00	40.95	9.35	50.30	74.00	-23.70	PK
V	7386.00	31.90	9.35	41.25	54.00	-12.75	AV
Н	4924.00	48.01	-0.32	47.69	74.00	-26.31	PK
Н	4924.00	37.22	-0.32	36.90	54.00	-17.10	AV
Н	7386.00	38.03	9.35	47.38	74.00	-26.62	PK
Н	7386.00	29.40	9.35	38.75	54.00	-15.25	AV

Remark:

1.Emission Level = Meter Reading + Factor,

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Over= Emission Level - Limit

- 2.If peak below the average limit, the average emission was no test.
- 3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB
- 4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 5.All the Modulation are test, the worst mode is 802.11b, the data recording in the report.

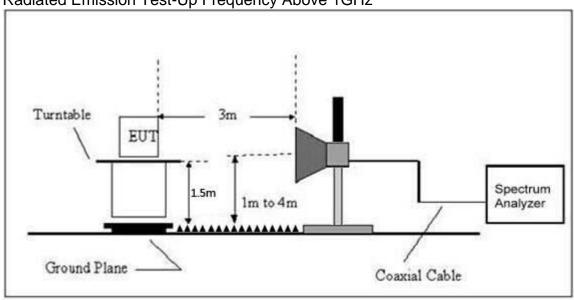
No.: BCTC/RF-EMC-005 Page: 25 of 60 / / / / Edition: A.3



8. RADIATED BAND EMISSION MEASUREMENT AND RESTRICTED BANDS OF OPERATION

8.1 Block Diagram Of Test Setup

Radiated Emission Test-Up Frequency Above 1GHz



8.2 Limit

FCC Part15 C Section 15.209 and 15.205

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENC	Limit (dBuV/m) (at 3M)			
Y (MHz)	PEAK	AVERAGE		
Above 1000	74	54		

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

No.: BCTC/RF-EMC-005 Page: 26 of 60 / / / / Edition: A.3



(3)Emission level (dBuV/m)=20log Emission level (uV/m).

8.3 Test procedure

Receiver Parameter	Setting
Attenuation	Auto
Start Frequency	2300MHz
Stop Frequency	2520
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Above 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. 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.The antenna 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 rota 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. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g.Test the EUT in the lowest channel, the Highest channel.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

8.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

No. : BCTC/RF-EMC-005 Page: 27 of 60 / / / / Edition : A.



8.5 Test Result

Report No.: BCTC2108406800E

	Polar (H/V)	Frequency (MHz)	Reading Level	Correct Factor	Measure- ment (dBuV/m)	Lim (dBu		Result
	()	((dBuV/m)	(dB)	PK	PK	AV	
			Low	Channel 2	2412MHz			
	Н	2390.00	56.73	-6.70	50.03	74.00	54.00	PASS
	Н	2400.00	48.38	-6.71	41.67	74.00	54.00	PASS
	V	2390.00	57.65	-6.70	50.95	74.00	54.00	PASS
802.11b	V	2400.00	50.61	-6.71	43.90	74.00	54.00	PASS
002.110				Channel 2	2462MHz			
	Н	2483.50	56.25	-6.79	49.46	74.00	54.00	PASS
	Н	2485.00	49.46	-6.81	42.65	74.00	54.00	PASS
	V	2483.50	57.03	-6.79	50.24	74.00	54.00	PASS
	V	2485.00	49.87	-6.81	43.06	74.00	54.00	PASS
		,		Channel 2	2412MHz			
	Н	2390.00	56.48	-6.70	49.78	74.00	54.00	PASS
	Н	2400.00	48.03	-6.71	41.32	74.00	54.00	PASS
	V	2390.00	55.85	-6.70	49.15	74.00	54.00	PASS
802.11g	V	2400.00	47.50	-6.71	40.79	74.00	54.00	PASS
002.119		,		Channel 2				
	Н	2483.50	56.91	-6.79	50.12	74.00	54.00	PASS
	Н	2485.00	47.97	-6.81	41.16	74.00	54.00	PASS
	V	2483.50	54.32	-6.79	47.53	74.00	54.00	PASS
	V	2485.00	46.54	-6.81	39.73	74.00	54.00	PASS
				Channel 2				
	Н	2390.00	56.45	-6.70	49.75	74.00	54.00	PASS
	Н	2400.00	48.20	-6.71	41.49	74.00	54.00	PASS
	V	2390.00	56.73	-6.70	50.03	74.00	54.00	PASS
802.11	V	2400.00	48.89	-6.71	42.18	74.00	54.00	PASS
n20		<u> </u>		Channel 2			1///	
	Н	2483.50	54.78	-6.79	47.99	74.00	54.00	PASS
	Н	2500.00	48.78	-6.81	41.97	74.00	54.00	PASS
	V	2483.50	56.56	-6.79	49.77	74.00	54.00	PASS
Damanla	V	2500.00	47.90	-6.81	41.09	74.00	54.00	PASS

Remark:

1. Emission Level = Meter Reading + Factor,

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Over= Emission Level - Limit

- 2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
- 3 In restricted bands of operation, The spurious emissions below the permissible value more than 20dB
- 4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

No.: BCTC/RF-EMC-005 Page: 28 of 60 / / / Edition: A.3



9. POWER SPECTRAL DENSITY TEST

9.1 Block Diagram Of Test Setup

EUT	SPECTRUM
	ANALYZER

9.2 Limit

FCC Part15 (15.247) , Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS	

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

9.3 Test procedure

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS bandwidth.
- 3. Set the RBW to: 3 kHz
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

9.4 EUT operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

No. : BCTC/RF-EMC-005 Page: 29 of 60 / / / / Edition : A.3



9.5 Test Result

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX b Mode		

Frequency	Power Spectral Density(dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-11.198	8	PASS
2437 MHz	-8.811	8	PASS
2462 MHz	-10.247	8	PASS

TX CH01



No.: BCTC/RF-EMC-005 Page: 30 of 60 / / / / Edition: A.3



TX CH06



TX CH11

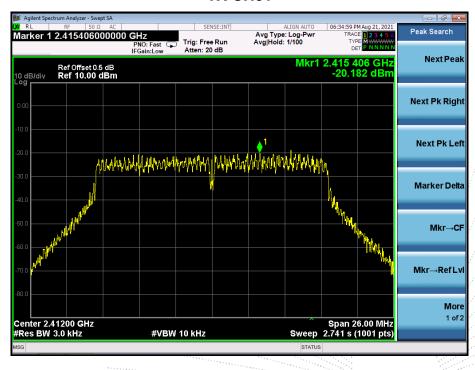




Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX g Mode		

Frequency	Power Spectral Density(dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-20.182	8	PASS
2437 MHz	-17.354	8	PASS
2462 MHz	-16.971	8	PASS

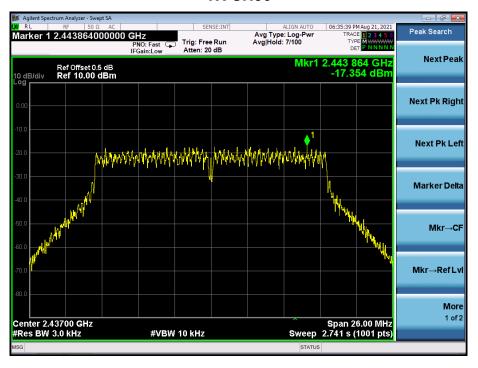
TX CH01



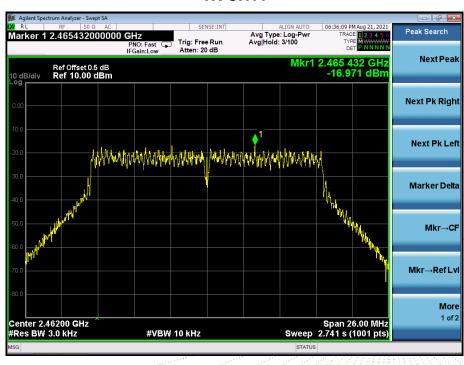
No. : BCTC/RF-EMC-005 Page: 32 of 60 / / / / Edition : A.3



TX CH06



TX CH11



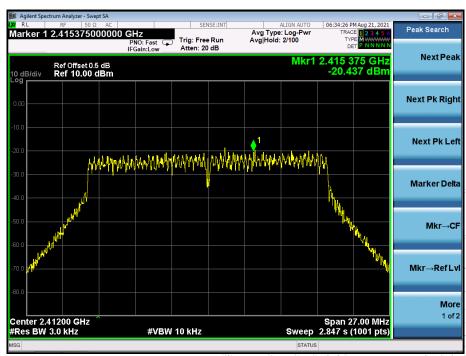
No. : BCTC/RF-EMC-005 Page: 33 of 60 / / / / Edition : A.3



Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX n Mode(20M)		

Frequency	Power Spectral Density(dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-20.437	8	PASS
2437 MHz	-17.116	8	PASS
2462 MHz	-15.754	8	PASS

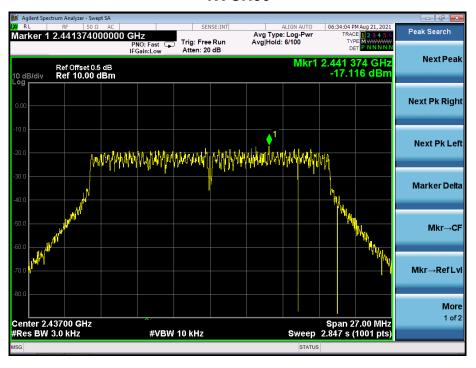
TX CH01



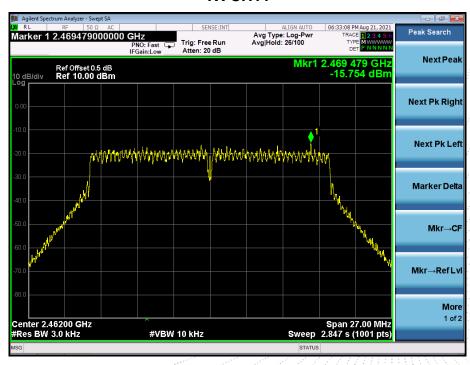
No. : BCTC/RF-EMC-005 Page: 34 of 60 / / / / Edition : A.3



TX CH06



TX CH11



No. : BCTC/RF-EMC-005 Page: 35 of 60 / / / / Edition : A.3



10. BANDWIDTH TEST

10.1 Block Diagram Of Test Setup

EUT	SPECTRUM
	ANALYZER

10.2 Limit

	FCC Part15 (15.247), Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS		

10.3 Test procedure

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) \geq 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

10.4 EUT operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

No.: BCTC/RF-EMC-005 Page: 36 of 60 / / / / Edition: A.3

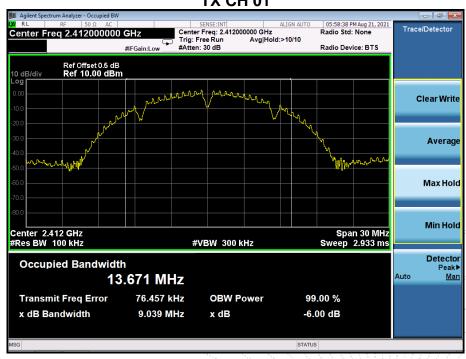


10.5 Test Result

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX b Mode		

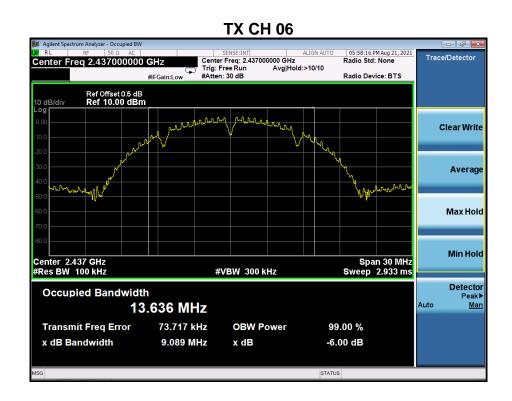
Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
2412	9.04	500	Pass
2437	9.09	500	Pass
2462	8.59	500	Pass

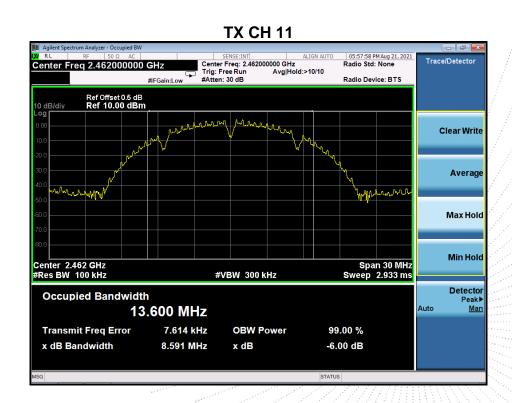
TX CH 01



No.: BCTC/RF-EMC-005 Page: 37 of 60 / / / / | Edition: A.3







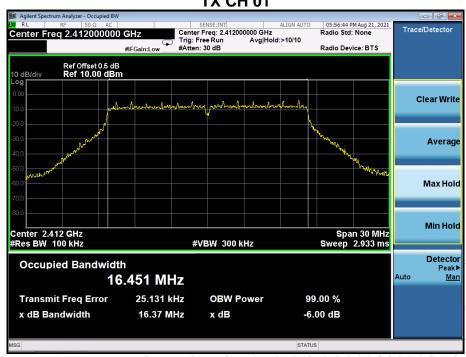
No. : BCTC/RF-EMC-005 Page: 38 of 60 / / / / Edition : A.3



Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX g Mode		

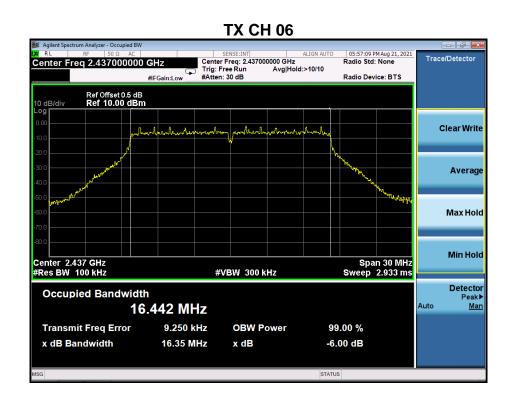
Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
2412	16.37	500	Pass
2437	16.35	500	Pass
2462	16.37	500	Pass

TX CH 01



No.: BCTC/RF-EMC-005 Page: 39 of 60 Edition: A.3





TX CH 11 | SENSE:INT | ALIGN AUTO | Center Freq: 2.462000000 GHz | Trig: Free Run | Avg|Hold:>10/10 | #Atten: 30 dB 05:57:41 PM Aug 21, 2021 Radio Std: None Trace/Detecto #IFGain:Low Radio Device: BTS Clear Write Average Max Hold Min Hold Span 30 MHz Sweep 2.933 ms Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz **Occupied Bandwidth** Auto Man 16.440 MHz **OBW Power** -10.696 kHz **Transmit Freq Error** 99.00 % x dB Bandwidth -6.00 dB 16.37 MHz x dB

No. : BCTC/RF-EMC-005 Page: 40 of 60 / / / / Edition : A.3



Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX n Mode(20M)		

Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
2412	17.34	500	Pass
2437	17.29	500	Pass
2462	17.57	500	Pass

TX CH 01

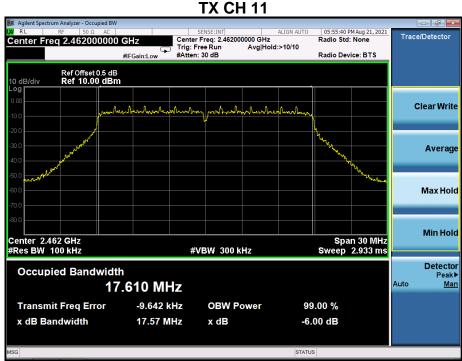


No. : BCTC/RF-EMC-005 Page: 41 of 60 / / / / / Edition : A.3



TX CH 06







11. PEAK OUTPUT POWER TEST

11.1 Block Diagram Of Test Setup

POWER METER

11.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

11.3 Test procedure

a. The EUT was directly connected to the Power meter

11.4 EUT operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

No. : BCTC/RF-EMC-005 Page: 43 of 60 / / / Edition : A.



11.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage :	AC 120V/60Hz

Test Mode	Frequency	Maximum Conducted Output Power(PK)	LIMIT
	(MHz)	(dBm)	dBm
	2412	11.848	30
802.11b	2437	13.818	30
	2462	13.643	30
	2412	10.430	30
802.11g	2437	12.337	30
	2462	12.049	30
	2412	10.026	30
802.11n20	2437	12.741	30
	2462	12.635	30

No.: BCTC/RF-EMC-005 Page: 44 of 60 / / Edition: A.



12. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE

12.1 Block Diagram Of Test Setup

EUT	SPECTRUM
	ANALYZER

12.2 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

12.3 Test procedure

Using the following spectrum analyzer setting:

- a) Set the RBW = 100KHz.
- b) Set the VBW = 300KHz.
- c) Sweep time = auto couple.
- d) Detector function = peak.
- e) Trace mode = max hold.
- f) Allow trace to fully stabilize..

12.4 EUT operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

No.: BCTC/RF-EMC-005 Page: 45 of 60 / / / Edition: A.3



12.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage :	AC 120V/60Hz

802.11b: Band Edge, Left Side



802.11b: Band Edge, Right Side



No.: BCTC/RF-EMC-005 Page: 46 of 60 / / / / Edition: A.3



802.11g: Band Edge, Left Side



802.11g: Band Edge, Right Side





802.11n-HT20: Band Edge, Left Side



802.11n-HT20: Band Edge, Right Side





CONDUCTED EMISSION MEASUREMENT

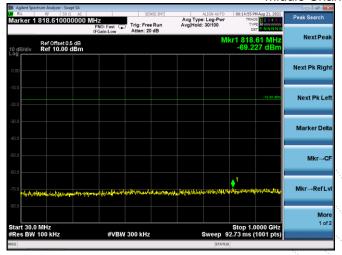
802.11b

Low Channel 2412MHz



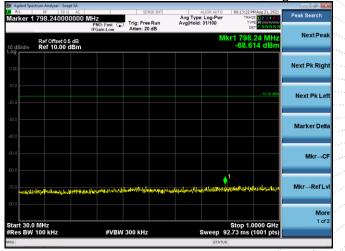


Middle Channel 2437MHz





High Channel 2462MHz



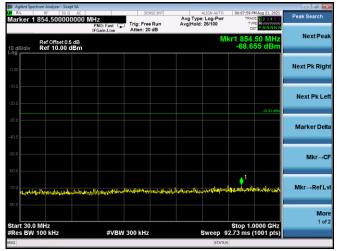


No. : BCTC/RF-EMC-005 Page: 49 of 60 / / / / Edition : A.3



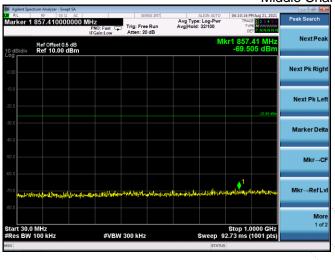
802.11g

Low Channel 2412MHz



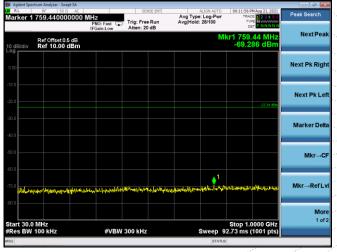


Middle Channel 2437MHz





High Channel 2462MHz





No. : BCTC/RF-EMC-005 Page: 50 of 60 / / / / Edition : A.3



802.11n20





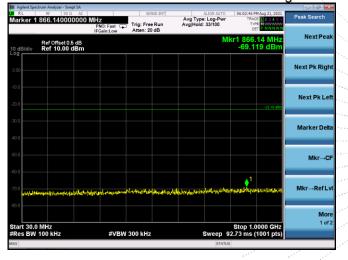


Middle Channel 2437MHz





High Channel 2462MHz





No. : BCTC/RF-EMC-005 Page: 51 of 60 / / / / Edition : A.3



13. DUTY CYCLE OF TEST SIGNAL

13.1 Standard requirement

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

13.2 Formula

Duty Cycle = Ton / (Ton+Toff)

13.3 Test procedure

- 1.Set span = Zero
- 2. RBW = 8MHz
- 3. VBW = 8MHz,
- 4. Detector = Peak

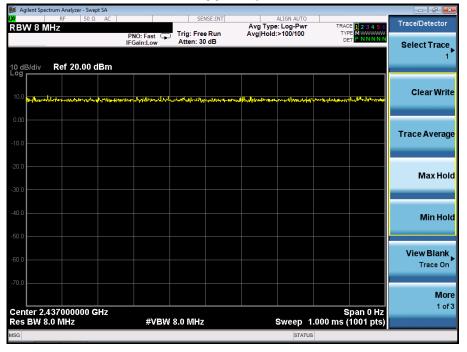
13.4 Test Result

	Duty Cycle	Duty Fator (dB)
802.11b	1 \ \ \	0
802.11g	, 1 , \ \	0
802.11n(HT20)	1, 1, 1, 1	0

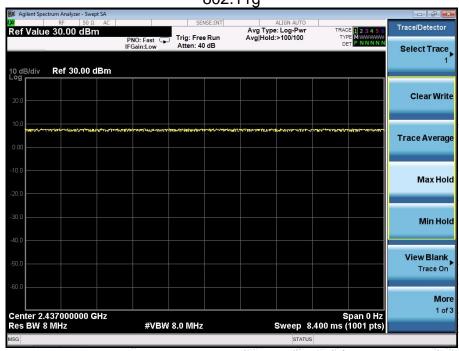
No. : BCTC/RF-EMC-005 Page: 52 of 60 / / / / / Edition : A



802.11b

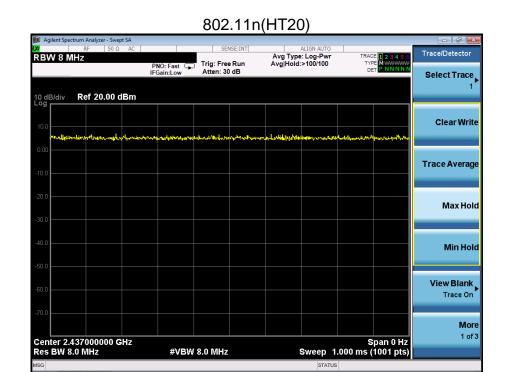






No. : BCTC/RF-EMC-005 Page: 53 of 60 / / / / Edition : A.3









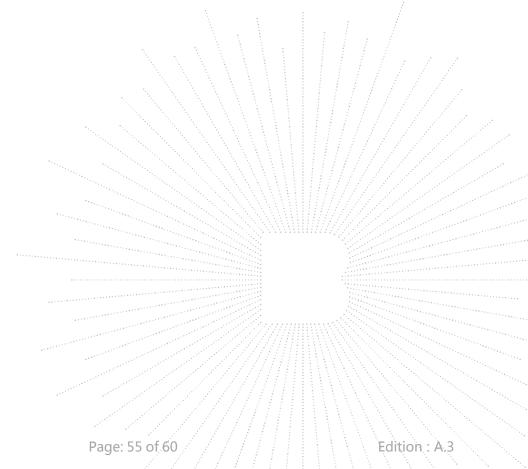
14. ANTENNA REQUIREMENT

14.1 Limit

15.203 requirement: For intentional device, according to 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.

14.1 Test Result

The EUT antenna is FPCB antenna, The antenna gain is 2.54dBi,fulfill the requirement of this section.

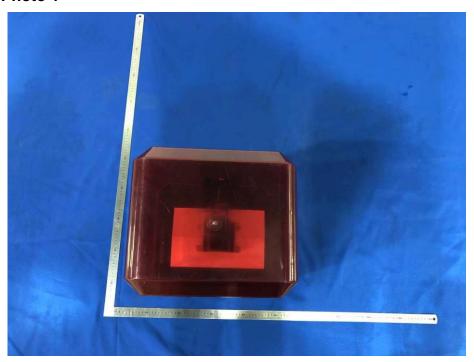


No.: BCTC/RF-EMC-005



15. EUT PHOTOGRAPHS

EUT Photo 1



EUT Photo 2



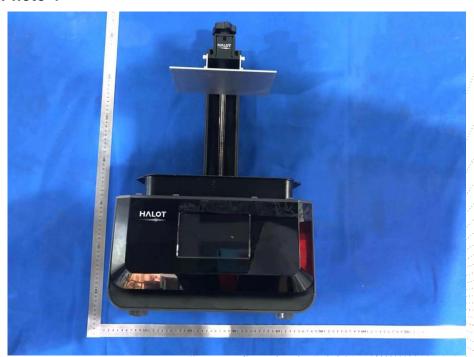
No.: BCTC/RF-EMC-005 Page: 56 of 60 / / / Edition: A.



EUT Photo 3



EUT Photo 4

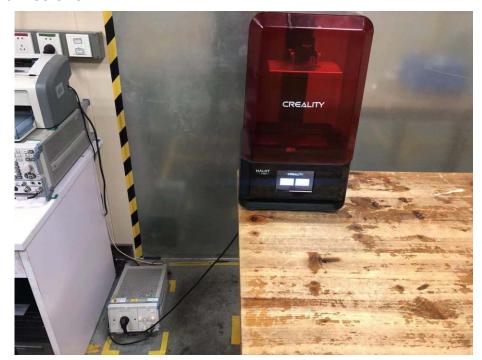


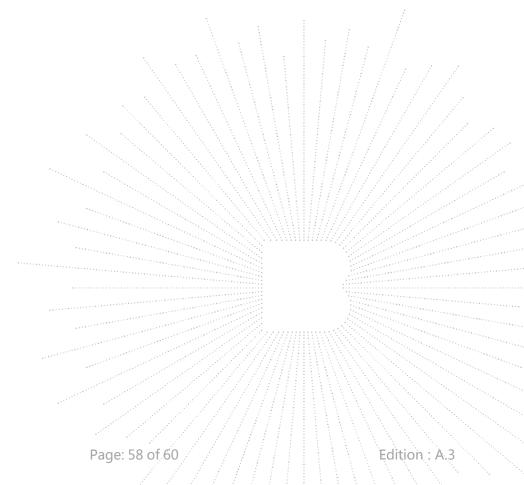
No.: BCTC/RF-EMC-005 Page: 57 of 60 / / / Edition: A.



16. EUT TEST SETUP PHOTOGRAPHS

Conducted emissions

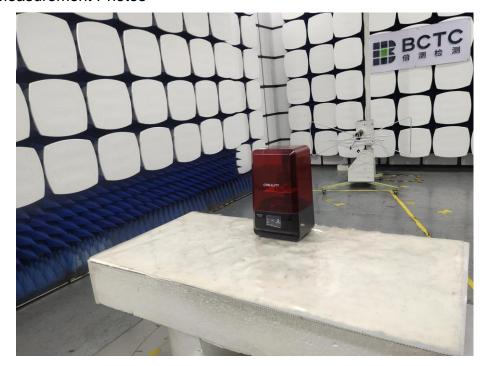




No.: BCTC/RF-EMC-005



Radiated Measurement Photos





No.: BCTC/RF-EMC-005 Page: 59 of 60 / / Edition: A.3



STATEMENT

- 1. The equipment lists are traceable to the national reference standards.
- 2. The test report can not be partially copied unless prior written approval is issued from our lab.
- 3. The test report is invalid without stamp of laboratory.
- 4. The test report is invalid without signature of person(s) testing and authorizing.
- 5. The test process and test result is only related to the Unit Under Test.
- 6. The quality system of our laboratory is in accordance with ISO/IEC17025.
- 7.If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address:

1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

TEL: 400-788-9558

P.C.: 518103

FAX: 0755-33229357

Website: http://www.chnbctc.com

E-Mail: bctc@bctc-lab.com.cn

**** END ****

No. : BCTC/RF-EMC-005 Page: 60 of 60 / / / / / Edition : A.