

TEST REPORT

Report No.	CISRR240911088
Project No.	CISR240911088
FCC ID	2BK56-C2
Applicant	shenzhen Huahai Hi-Tech Technology Co., Ltd
Address	Room301,BuildingE,Mingguang Zhichuang Park Plant, Jutang Community, Fucheng Street, Shenzhen, China
Manufacturer	shenzhen Huahai Hi-Tech Technology Co., Ltd
Address	Room301,BuildingE,Mingguang Zhichuang Park Plant, Jutang Community, Fucheng Street, Shenzhen, China
Product Name	security camera indoor
Trade Mark	-
Model/Type reference	C2
Listed Model(s)	-
Standard	Part 15 Subpart C Section 15.247
Test date	September 11, 2024 ~ September 19, 2024
Issue date	September 27, 2024
Test result	Complied

Kory Huang

Prepared by: Rory Huang

GenryLong

Approved by: Genry Long

The test results relate only to the tested samples.

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Contents

2. SUMMARY OF TEST RESULT 4 3. SUMMARY 5 3. SUMMARY 5 3.1. Product Description 5 3.2. Radio Specification Description 5 3.3. Modification of EUT 6 3.4. Testing Site 6 3.4. Testing Site 6 3.6. DISTURBANCE Calculation 6 3.6. DISTURBANCE Calculation 7 4. TEST CONFIGURATION 7 4.1. Test frequency list 7 4.2. Test mode 7 4.3. Support unit used in test configuration and system 7 4.3. Support unit used in test configuration and system 7 4.4. Test sample information 8 4.5. Testmode 7 4.5. Statement of the measurement uncertainty 8 4.6. Statement of the measurement uncertainty 8 5.7. EXT CONDITIONS AND RESULTS 10 5.1. Antenna Requirement 10 5.2. AC Conducted Bandwidth 16 5.6. S9% Occupied Bandwidth 16 5.6. S9% Occupied Bandwidth 16 5.8. Rediated Band edge and Spurious Emission 11 5.9. Redi	1. REPORT VERSION	3
3.1. Product Description 5 3.2. Radio Specification Description 5 3.3. Modification of EUT 6 3.4. Testing Site 6 3.5. Field Strength Calculation 6 3.6. DISTURBANCE Calculation 6 4. TEST CONFIGURATION 7 4.1. Test frequency list 7 4.2. Test mode 7 4.3. Support unit used in test configuration and system 7 4.4. Test sample information 8 4.5. Testing environmental condition 8 4.6. Statement of the measurement uncertainty 8 4.7. Equipment Used during the Test 9 5. TEST CONDITIONS AND RESULTS 10 5.1. Antenna Requirement 10 5.2. AC Conducted Emission 11 5.3. Peak Output Power 14 5.4. 6 dB Bandwidth 15 5.6. 99W Occupied Bandwidth 16 5.7. Conducted Band edge and Spurious Emission 21 5.8. Radiated Band edge Emission 21 5.9. Radiated Band edge Emission 21 5.1. On Uty Cycle Correction Factor (DCCF) 26 6. TEST SETUP PHOTOS 27<	2. SUMMARY OF TEST RESULT	4
3.2 Radio Specification Description 5 3.3 Modification of EUT 6 3.4 Testing Site 6 3.5 Field Strength Calculation 6 3.6 DISTURBANCE Calculation 6 4. TEST CONFIGURATION 7 4.1 Test frequency list 7 4.2 Test mode 7 4.3 Support unit used in test configuration and system 7 4.4. Test sample information 8 4.5 Testing environmental condition 8 4.6 Statement of the measurement uncertainty 8 4.7 Equipment Used during the Test 9 5. TEST CONDITIONS AND RESULTS 10 5.1 Antenna Requirement 11 5.3 Peak Output Power 14 5.4 Gel Bandwidth 15 5.7 Occupied Bandwidth 16 5.8 Radiated Band edge and Spurious Emission 17 5.7 Conducted Emission 11 5.8 Radiated Spurious Emission 21 5.9 Rowice Structure Emission 21 5.1 Duty Cycle Correction Factor (DCCF) 26 6. TEST SETUP PHOTOS 27 7. EXTERNAL AND INTERNAL PHOTOS 27	3. SUMMARY	5
3.3. Modification of EUT 6 3.4. Testing Site 6 3.5. Field Strength Calculation 6 3.6. DISTURBANCE Calculation 6 4. TEST CONFIGURATION 7 4.1. Test frequency list 7 4.2. Test mode 7 4.3. Support unit used in test configuration and system 7 4.4. Test sample information 8 4.5. Testing environmental condition 8 4.6. Statement of the measurement uncertainty 8 4.7. Equipment Used during the Test 9 5. TEST CONDITIONS AND RESULTS 10 5.1. Antenna Requirement 11 5.3. Peak Output Power 14 5.4. 6 dB Bandwidth 15 5.5. 99% Occupied Bandwidth 16 5.6. Power spectral density 17 5.7. Conducted Band edge and Spurious Emission 11 5.8. Radiated Band edge and Spurious Emission 11 5.9. Radiated Band edge Emission 21 5.10. Duty Cycle Correction Factor (DCCF) 26 6. TEST SETUP PHOTOS 27 7. EXTERNAL AND INTERNAL PHOTOS 27 7.1. External Photos <	3.1. Product Description	5
3.4. Testing Site 6 3.5. Field Strength Calculation 6 3.6. DISTURBANCE Calculation 6 4. TEST CONFIGURATION 7 4.1. Test frequency list 7 4.2. Test mode 7 4.3. Support unit used in test configuration and system 7 4.4. Test sample information 8 4.5. Testing environmental condition 8 4.6. Statement of the measurement uncertainty 8 4.7. Equipment Used during the Test 9 5. TEST CONDITIONS AND RESULTS 10 5.1. Antenna Requirement 10 5.2. AC conducted Emission 11 5.3. Peak Output Power 14 5.4. 6 B Bandwidth 15 5.7. 7. Ouducted Band edge and Spurious Emission 18 5.8. Radiated Band edge and Spurious Emission 19 5.9. Radiated Band edge and Spurious Emission 21 5.10. Duty Cycle Correction Factor (DCCF) 26 6. TEST SETUP PHOTOS 27 7. EXTERNAL AND INTERNAL PHOTOS 27		
3.5. Field Štrength Calculation 6 3.6. DISTURBANCE Calculation 6 4. TEST CONFIGURATION 7 4.1. Test frequency list 7 4.1. Test mode 7 4.2. Test mode 7 4.3. Support unit used in test configuration and system 7 4.4. Test sample information 8 4.5. Testing environmental condition 8 4.6. Statement of the measurement uncertainty 8 4.7. Equipment Used during the Test 9 5. TEST CONDITIONS AND RESULTS 10 5.1. Antenna Requirement 10 5.2. AC Conducted Emission 11 5.3. Peak Output Power 14 5.4. GB Bandwidth 15 5.5. 99% Occupied Bandwidth 16 5.8. Radiated Band edge and Spurious Emission 18 5.8. Radiated Band edge and Spurious Emission 18 5.9. Radiated Band edge Emission 12 5.10. Duty Cycle Correction Factor (DCCF) 26 6. TEST SETUP PHOTOS 27 7. EXTERNAL AND INTERNAL PHOTOS 27 7.1. External Photos 27		
3.6. DISTURBANCE Calculation 6 4. TEST CONFIGURATION 7 4.1. Test frequency list 7 4.2. Test mode 7 4.3. Support unit used in test configuration and system 7 4.4. Test sample information 8 4.5. Testing environmental condition 8 4.6. Statement of the measurement uncertainty 8 4.7. Equipment Used during the Test 9 5. TEST CONDITIONS AND RESULTS 10 5.1. Antenna Requirement 10 5.2. AC Conducted Emission 11 5.3. Peak Output Power 14 5.4. 6 dB Bandwidth 15 5.5. 99% Occupied Bandwidth 16 5.6. Power spectral density 17 5.7. Conducted Band edge and Spurious Emission 18 5.8. Radiated Band edge Emission 19 5.9. Record and edge Emission 21 5.10. Duty Cycle Correction Factor (DCCF) 26 6. TEST SETUP PHOTOS 27 7. EXTERNAL AND INTERNAL PHOTOS 27 7.1. External Photos 27		
4. TEST CONFIGURATION 7 4.1. Test frequency list 7 4.2. Test mode 7 4.3. Support unit used in test configuration and system 7 4.4. Test sample information 8 4.5. Testing environmental condition 8 4.6. Statement of the measurement uncertainty 8 4.7. Equipment Used during the Test 9 5. TEST CONDITIONS AND RESULTS 10 5.1. Antenna Requirement 10 5.2. AC Conducted Emission 11 5.3. Peak Output Power 14 5.4. G B Bandwidth 15 5.5. 99% Occupied Bandwidth 16 5.6. Power spectral density 17 5.7. Conducted Emission 18 5.8. Radiated Band edge Emission 19 5.9. Radiated Spurious Emission 12 5.10. Duty Cycle Correction Factor (DCCF) 26 6. TEST SETUP PHOTOS 27 7. EXTERNAL AND INTERNAL PHOTOS 27 7.1. External Photos 27		
4.1. Test frequency list 7 4.2. Test mode 7 4.3. Support unit used in test configuration and system 7 4.4. Test sample information 8 4.5. Testing environmental condition 8 4.6. Statement of the measurement uncertainty 8 4.7. Equipment Used during the Test 9 5. TEST CONDITIONS AND RESULTS 10 5.1. Antenna Requirement 10 5.2. AC Conducted Emission 11 5.3. Peak Output Power 14 5.4.4.6 6B Bandwidth 15 5.5. 99% Occupied Bandwidth 16 5.6. Radiated Band edge and Spurious Emission 18 5.8. Radiated Band edge and Spurious Emission 19 5.9. Radiated Spurious Emission 21 5.10. Duty Cycle Correction Factor (DCCF) 26 6. TEST SETUP PHOTOS 27 7. EXTERNAL AND INTERNAL PHOTOS 27 7.1. External Photos 27	3.6. DISTURBANCE Calculation	6
42. Test mode 7 43. Support unit used in test configuration and system 7 44. Test sample information 8 45. Testing environmental condition 8 46. Statement of the measurement uncertainty 8 47. Equipment Used during the Test 9 5. TEST CONDITIONS AND RESULTS 10 51. Antenna Requirement 10 52. AC Conducted Emission 11 53. Peak Output Power 14 54. 6 dB Bandwidth 15 55. 99% Occupied Bandwidth 16 56. Power spectral density 17 57. Conducted Band edge and Spurious Emission 18 58. Radiated Band edge Emission 18 59. Radiated Spurious Emission 21 51. Outy Cycle Correction Factor (DCCF) 26 6. TEST SETUP PHOTOS 27 7. EXTERNAL AND INTERNAL PHOTOS 27 71. External Photos 27	4. TEST CONFIGURATION	7
4.3. Support unit used in test configuration and system 7 4.4. Test sample information 8 4.5. Testing environmental condition 8 4.6. Statement of the measurement uncertainty 8 4.7. Equipment Used during the Test 9 5. TEST CONDITIONS AND RESULTS 10 5.1. Antenna Requirement 10 5.2. AC Conducted Emission 11 5.3. Peak Output Power 14 5.4. 6 dB Bandwidth 15 5.5. 99% Occupied Bandwidth 16 5.6. Power spectral density 17 5.7. Conducted Band edge and Spurious Emission 18 5.8. Radiated Band edge Emission 18 5.8. Radiated Band edge Emission 21 5.10. Duty Cycle Correction Factor (DCCF) 26 6. TEST SETUP PHOTOS 27 7. EXTERNAL AND INTERNAL PHOTOS 27 7.1. External Photos 27		
44. Test sample information 8 45. Testing environmental condition 8 45. Statement of the measurement uncertainty 8 46. Statement of the measurement uncertainty 8 47. Equipment Used during the Test 9 5. TEST CONDITIONS AND RESULTS 10 51. Antenna Requirement 10 52. AC Conducted Emission 11 53. Peak Output Power 14 54. 6 dB Bandwidth 15 55. 99% Occupied Bandwidth 16 56. Power spectral density 17 57. Conducted Band edge and Spurious Emission 18 58. Radiated Band edge Emission 19 59. Radiated Spurious Emission 21 510. Duty Cycle Correction Factor (DCCF) 26 6. TEST SETUP PHOTOS 27 7. EXTERNAL AND INTERNAL PHOTOS 27 71. External Photos 27		
4.5. Testing environmental condition 8 4.6. Statement of the measurement uncertainty 8 4.7. Equipment Used during the Test 9 5. TEST CONDITIONS AND RESULTS 10 5.1. Antenna Requirement 10 5.2. AC Conducted Emission 11 5.3. Peak Output Power 14 5.4.6 dB Bandwidth 15 5.5. 99% Occupied Bandwidth 16 5.6. Power spectral density 17 5.7. Conducted Band spurious Emission 18 5.8. Radiated Band edge Emission 19 5.9. Radiated Band edge Emission 21 5.10. Duty Cycle Correction Factor (DCCF) 26 6. TEST SETUP PHOTOS 27 7. EXTERNAL AND INTERNAL PHOTOS 27 7.1. External Photos 27		
4.6. Statement of the measurement uncertainty 8 4.7. Equipment Used during the Test 9 5. TEST CONDITIONS AND RESULTS 10 5. TEST CONDITIONS AND RESULTS 10 5. AC Conducted Emission 11 5. Peak Output Power 14 5.4.6 dB Bandwidth 15 5.5 99% Occupied Bandwidth 16 6.6. Power spectral density 17 5.7. Conducted Band edge and Spurious Emission 18 5.8. Radiated Band edge Emission 19 5.9. Radiated Spurious Emission 21 5.10. Duty Cycle Correction Factor (DCCF) 26 6. TEST SETUP PHOTOS 27 7. EXTERNAL AND INTERNAL PHOTOS 27 7.1. External Photos 27		
4.7. Equipment Used during the Test 9 5. TEST CONDITIONS AND RESULTS 10 5.1. Antenna Requirement 10 5.2. AC Conducted Emission 11 5.3. Peak Output Power 14 5.4. 6 dB Bandwidth 15 5.5 99% Occupied Bandwidth 16 6.6. Power spectral density 17 7.7. Conducted Band edge and Spurious Emission 18 5.8. Radiated Band edge Emission 19 5.9. Radiated Spurious Emission 21 5.10. Duty Cycle Correction Factor (DCCF) 26 6. TEST SETUP PHOTOS 27 7. EXTERNAL AND INTERNAL PHOTOS 27 7.1. External Photos 27		
5. TEST CONDITIONS AND RESULTS 10 5.1. Antenna Requirement 10 5.2. AC Conducted Emission 11 5.3. Peak Output Power 11 5.5. 99% Occupied Bandwidth 14 5.6. Power spectral density 17 5.7. Conducted Band edge and Spurious Emission 18 5.8. Radiated Band edge Emission 19 5.9. Radiated Spurious Emission 21 5.10. Duty Cycle Correction Factor (DCCF) 26 6. TEST SETUP PHOTOS 27 7. EXTERNAL AND INTERNAL PHOTOS 27 7.1. External Photos 27		
5.1. Antenna Requirement 10 5.2. AC Conducted Emission 11 5.3. Peak Output Power 14 5.4. 6 dB Bandwidth 15 5.5. 99% Occupied Bandwidth 16 5.6. Power spectral density 17 5.7. Conducted Band edge and Spurious Emission 18 5.8. Radiated Band edge Emission 19 5.9. Radiated Spurious Emission 21 5.10. Duty Cycle Correction Factor (DCCF) 26 6. TEST SETUP PHOTOS 27 7. EXTERNAL AND INTERNAL PHOTOS 27 7.1. External Photos 27	4.7. Equipment Used during the Test	9
5.2. AC Conducted Emission 11 5.3. Peak Output Power 14 5.4. 6 dB Bandwidth 15 5.5. 99% Occupied Bandwidth 16 5.6. Power spectral density 17 5.7. Conducted Band edge and Spurious Emission 18 5.8. Radiated Band edge Emission 19 5.9. Radiated Spurious Emission 21 5.10. Duty Cycle Correction Factor (DCCF) 26 6. TEST SETUP PHOTOS 27 7. EXTERNAL AND INTERNAL PHOTOS 27 7.1. External Photos 27	5. TEST CONDITIONS AND RESULTS	10
5.3. Peak Output Power 14 5.4. 6 dB Bandwidth 15 5.5. 99% Occupied Bandwidth 16 5.6. Power spectral density 17 5.7. Conducted Band edge and Spurious Emission 18 5.8. Radiated Band edge Emission 19 5.9. Radiated Spurious Emission 21 5.10. Duty Cycle Correction Factor (DCCF) 26 6. TEST SETUP PHOTOS 27 7. EXTERNAL AND INTERNAL PHOTOS 27 7.1. External Photos 27		
5.4. 6 dB Bandwidth 15 5.5. 99% Occupied Bandwidth 16 5.6. Power spectral density 17 5.7. Conducted Band edge and Spurious Emission 18 5.8. Radiated Band edge Emission 19 5.9. Radiated Spurious Emission 21 5.10. Duty Cycle Correction Factor (DCCF) 26 6. TEST SETUP PHOTOS 27 7. EXTERNAL AND INTERNAL PHOTOS 27 7.1. External Photos 27		
5.5. 99% Occupied Bandwidth 16 5.6. Power spectral density 17 5.7. Conducted Band edge and Spurious Emission 18 5.8. Radiated Band edge Emission 19 5.9. Radiated Spurious Emission 21 5.10. Duty Cycle Correction Factor (DCCF) 26 6. TEST SETUP PHOTOS 27 7. EXTERNAL AND INTERNAL PHOTOS 27 7.1. External Photos 27		
5.6. Power spectral density 17 5.7. Conducted Band edge and Spurious Emission 18 5.8. Radiated Band edge Emission 19 5.9. Radiated Spurious Emission 21 5.10. Duty Cycle Correction Factor (DCCF) 26 6. TEST SETUP PHOTOS 27 7. EXTERNAL AND INTERNAL PHOTOS 27 7.1. External Photos 27		
5.7. Conducted Band edge and Spurious Emission 18 5.8. Radiated Band edge Emission 19 5.9. Radiated Spurious Emission 21 5.10. Duty Cycle Correction Factor (DCCF) 26 6. TEST SETUP PHOTOS 27 7. EXTERNAL AND INTERNAL PHOTOS 27 7.1. External Photos 27		
5.8. Radiated Band edge Emission 19 5.9. Radiated Spurious Emission 21 5.10. Duty Cycle Correction Factor (DCCF) 26 6. TEST SETUP PHOTOS 27 7. EXTERNAL AND INTERNAL PHOTOS 27 7.1. External Photos 27		
5.9. Radiated Spurious Emission 21 5.10. Duty Cycle Correction Factor (DCCF) 26 6. TEST SETUP PHOTOS 27 7. EXTERNAL AND INTERNAL PHOTOS 27 7.1. External Photos 27		
 5.10. Duty Cycle Correction Factor (DCCF)		
6. TEST SETUP PHOTOS 27 7. EXTERNAL AND INTERNAL PHOTOS 27 7.1. External Photos 27		
7. EXTERNAL AND INTERNAL PHOTOS	5.10. Duty Cycle Correction Factor (DCCF)	. 26
7.1. External Photos	6. TEST SETUP PHOTOS	27
	7. EXTERNAL AND INTERNAL PHOTOS	27
7.2. Internal photos		
	7.2. Internal photos	27



1. <u>REPORT VERSION</u>

Version No.	Issue date	Description
00	September 27, 2024	Original



2. SUMMARY OF TEST RESULT

Report clause	Test Item	Standard Requirement	Result
5.1	Antenna Requirement	15.203/15.247 (c)	PASS
5.2	AC Conducted Emission	15.207	PASS
5.3	Peak Output Power	15.247 (b)(3)	PASS
5.4	6 dB Bandwidth	15.247 (a)(2)	PASS
5.5	99% Occupied Bandwidth	-	PASS ^{*1}
5.6	Power spectral density	15.247 (e)	PASS
5.7	Conducted Band Edge and Spurious Emission	15.247(d)/15.205	PASS
5.8	Radiated Band Edge Emission	15.205/15.209	PASS
5.9	Radiated Spurious Emission	15.247(d)/15.205/15.209	PASS
5.10	Duty Cycle Correction Factor	-	PASS ^{*1}

Note:

- The measurement uncertainty is not included in the test result.

- *1: No requirement on standard, only report these test data.



3. <u>SUMMARY</u>

3.1. Product Description

Main unit information:	
Product Name:	security camera indoor
Trade Mark:	
Model No.:	C2
Listed Model(s):	
Power supply:	Input: DC 5V
Hardware version:	V1.0
Software version:	V1.0

3.2. Radio Specification Description

Technology:	802.11b/802.11g/802.11n(HT20/HT40)
	802.11b: DSSS
Modulation:	802.11g/802.11n(HT20/HT40): OFDM
	002.11g/002.111(1120/1140). 01 DW
	802.11b/802.11g/802.11n(HT20): 2412MHz~2462MHz
Operation frequency:	802.11n(HT40): 2422MHz~2452MHz
	802.11b/802.11g/802.11n(HT20): 11
Channel number:	802.11n(HT40): 9
Channel separation:	5MHz
Antonna tuno:	FPC Antenna
Antenna type:	
Antenna gain:	4.87dBi
L č	

Channel List:

2.4GWIFI :

802.11b: DSSS, 802.11g/802.11n(HT20/HT40): OFDM: OFDMA

CH01	2412 MHz	CH07	2442MHz
CH02	2417 MHz	CH08	
CH03	2422 MHz	CH09	2452 MHz
CH04		CH10	
CH05		CH11	2462 MHz
CH06	2437MHz		



3.3. Modification of EUT

No modifications are made to the EUT during all test items.

3.4. Testing Site

Laboratory Name	Shenzhen Bangce Testing Technology Co., Ltd.
Laboratory Location	101, building 10, Yunli Intelligent Park, Shutianpu community, Matian Street, Guangming District, Shenzhen, Guangdong, China
FCC registration number	736346

3.5. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS (dBuV/m) = RA (dBuV) + AF (dB/m) + CL (dB) - AG (dB)

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

3.6. DISTURBANCE Calculation

The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

CD (dBuV) = RA (dBuV) + PL (dB) + CL (dB)

Where CD = Conducted Disturbance	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	PL = 10 dB Pulse Limiter Factor

4. TEST CONFIGURATION

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

4.1. Test frequency list

Channel	Frequen	Frequency (MHz)	
Channel	802.11b/g/n(HT20)	802.11/n(HT40)	
CH-L	2412	2422	
CH-M	2437	2437	
СН-Н	2462	2452	

4.2. Test mode

e engineering test program was nsmitting.Power setting Default.	provided(SecureCRTchs) and e	enabled to make EUT continuous
Test Item	Test Mode	Modulation
	TX CH-L	802.11b/g/n(HT20/HT40)
	TX CH-M	802.11b/g/n(HT20/HT40)
Conducted test item	TX CH-H	802.11b/g/n(HT20/HT40)
	Normal link	
	Charging	
	TX CH-L	802.11b/g/n(HT20/HT40)
	TX CH-M	802.11b/g/n(HT20/HT40)
Radiated test item	TX CH-H	802.11b/g/n(HT20/HT40)
	Normal link	
	Charging	

 The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.All patterns have predictions, and the report only shows the worst pattern data.

4.3. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Item	Equipment name	Trade Name	Model No.
1	Adapter	Huawei	HW-05002000C
2	Phone	Huawei	MLD-AL00



4.4. Test sample information

Туре	sample no.
Engineer sample	CISR240911088-S01
Normal sample	CISR240911088-S02

4.5. Testing environmental condition

Туре	Requirement	Actual
Temperature:	15~35°C	25°C
Relative Humidity:	25~75%	50%
Air Pressure:	860~1060mbar	1000mbar

4.6. Statement of the measurement uncertainty

No.	Test Items	Measurement Uncertainty
1	AC Conducted Emission	1.63dB
2	Peak Output Power	1.34dB
3	Power Spectral Density	1.34dB
4	6dB Bandwidth	0.002%
5	99% Occupied Bandwidth	0.002%
6	Conducted Band Edge and Spurious Emission	1.93dB
7	Radiated Band Edge Emission	3.76dB for 30MHz-1GHz
1		3.80dB for above 1GHz
8	Radiated Spurious Emission	3.76dB for 30MHz-1GHz
0		3.80dB for above 1GHz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.



4.7. Equipment Used during the Test

Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
9*6*6 anechoic chamber	SKET	9.3*6.3*6	N/A	2021.10.15	3Year
Spectrum analyzer	Agilent	N9020A	MY50530263	2024.01.08	1Year
Receiver	ROHDE&SCHWARZ	ESCI	100853	2024.01.08	1Year
Spectrum analyzer	R&S	FSV-40N	/	2024.01.08	1Year
Bilog Antenna	Schwarzbeck	VULB 9163	1463	2023.01.09	2Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	2487	2023.01.09	2Year
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	1	2023.01.09	2Year
RF Cable	Tonscend	Cable 1	/	2024.01.08	1Year
RF Cable	Tonscend	Cable 2	/	2024.01.08	1Year
RF Cable	SKET	Cable 3	/	2024.01.08	1Year
Pre-amplifier	Tonscend	TAP9K3G32	AP21G806153	2024.01.08	1Year
Pre-amplifier	Tonscend	TAP01018050	AP22E806229	2024.01.08	1Year
L.I.S.N.#1	Schwarzbeck	NSLK8127	/	2024.01.08	1Year
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	/	2024.01.08	1 Year
Horn Antenna	SCHWARZBECK	BBHA9170	1130	2023.01.09	2 Year
Preamplifier	Tonscend	TAP18040048	AP21C806126	2024.01.08	1 Year
variable-frequency power source	Pinhong	PH1110	/	2024.01.08	1 Year
6dB Attenuator	SKET	DC-6G	/	N/A	N/A
Artificial power network	Schwarzbeck	NSLK8127	8127-01096	2024.01.08	1 Year
EMI Test Receiver	Rohde&schwarz	ESCI7	100853	2024.01.08	1 Year
8-wire Impedance Stabilization Network	Schwarzbeck	NTFM 8158	8158-00337	2024.01.08	1 Year
Artificial power network	Schwarzbeck	ENV216	/	2024.01.08	1 Year
Antenna tower	SKET	Bk-4AT-BS	AT2021040101- V1	N/A	N/A
Power Meter	WCS	WCS-PM	WCSPM230405 A	2024.01.08	1 Year



5. TEST CONDITIONS AND RESULTS

5.1. Antenna Requirement

Standard Applicable:	FCC CFR Title 47 Part 15 Subpart C Section 15.203:
	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the response-ble party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
	FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1) (I):
	(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively
	for fixed. Point-to-point operations may employ transmitting antennas with
	directional gain greater than 6dBi provided the maximum conducted output
	power of the intentional radiator is reduced by 1 dB for every 3 dB that the
	directional gain of the antenna exceeds 6dBi.
<u>Description</u>	The EUT antenna is FPC Antenna (4.87dBi), the directional gain of the antenna less than 6dBi. It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used.Antenna structure please refer to the EUT internal photographs antenna photo.

Remark: The antenna gain is provided by the customer , if the data provided by the customer is not accurate, Shenzhen Bangce Testing Technology Co., Ltd. does not assume any responsibility.

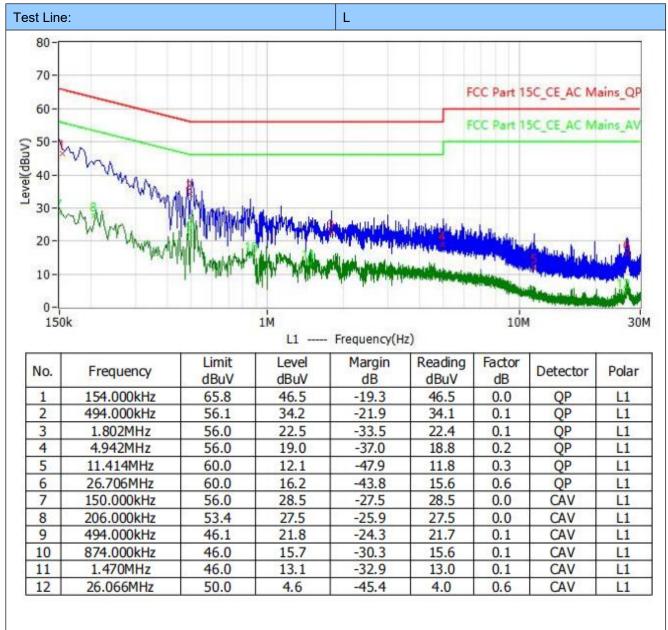
5.2. AC Conducted Emission

Limit:	FCC CFR Title 47 Part 15 Subpart C Section 15.207		
		Limit (dBuV)	
	Frequency range (MHz)	Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the logarith	m of the frequency.	
Test configuration:	GR P 0.8m	RECEIVER	
<u>Test procedure:</u>	 The EUT was setup according to the EUT was placed on raised 80 cm above the conducting plane was loce surfaces of EUT were at conducting surface. The EUT and simulators line impedances stabilization ohm /50uH coupling impedances 	a platform of nominal conducting ground pla cated 40 cm to the rea least 80 cm from any are connected to the ttion network (LISN).	size, 1 m by 1.5 m, ane. The vertical ar of the EUT. All othe other grounded main power through a The LISN provides a
	 The peripheral devices a LISN. (Refer to the block Each current-carrying co ground (safety) conductor 	re also connected to < diagram of the test s nductor of the EUT p	the main power throug setup and photograph ower cord, except the
	to the input power source6. The excess length of the receptacle were folded by bundle not exceeding 40	e. power cord between ack and forth at the c	the EUT and the LISI
	7. Conducted emissions we 0.15MHz to 30MHz using	ere investigated over	
	8. During the above scan manipulation.		
Test mode:	Refer to the clause 4.2		
Result:	Passed		

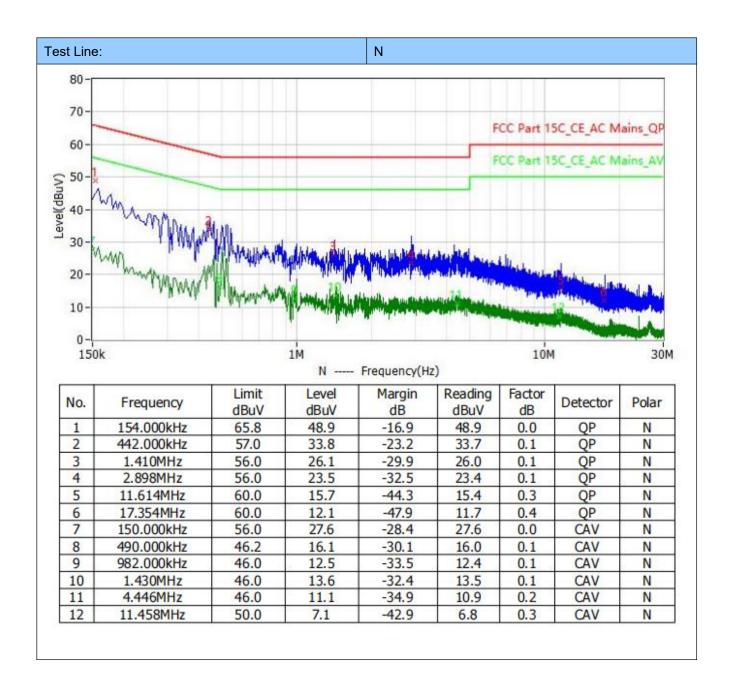
- 1. Factor = LISN Factor + Cable Factor
- 2. Level= Reading + Factor 3. Margin= Level Limit



Test Mode: Charging









5.3. Peak Output Power

<u>Limit:</u>	FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3): For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is de ned as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.	
Test configuration:	EUT POWER METER	
Test procedure:	 The EUT is configured to transmit continuously. At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level. The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five 	
Test mode:	Refer to the clause 4.2	
<u>Test data:</u>	Refer to the Appendix A	
<u>Result:</u>	Passed	



5.4. 6 dB Bandwidth

Limit:	
<u>Test configuration:</u>	Spectrum Analyzer EUT Non-Conducted Table Ground Reference Plane
Test procedure:	 Connect EUT RF Output port to the Spectrum Analyzer through an RF attenuator. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB. The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. Spectrum Setting: 6dB bandwidth: (1) Set RBW = 100 kHz. (2) Set the video bandwidth (VBW) ≥ 3 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.
Test mode:	Refer to the clause 4.2
Test data:	Refer to the Appendix A
Result:	Passed



5.5. 99% Occupied Bandwidth

Limit:	-
Test configuration:	Spectrum Analyzer
	EUT
	Non-Conducted Table
	Ground Reference Plane
Test procedure:	 Connect the antenna port(s) to the spectrum analyzer input. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output andthe spectrum analyzer). Center Frequency =channel center frequency Span≥1.5 x OBW RBW = 1%~5%OBW, VBW ≥ 3 × RBW
	Sweep time= auto couple Detector = Peak, Trace mode = max hold 3. Place the radio in continuous transmit mode, allow the trace to stabilize,
	view the transmitter waveform on the spectrum analyzer.
<u>Test mode:</u>	Refer to the clause 4.2
<u>Test data:</u>	Refer to the Appendix A
Result:	Passed



5.6. Power spectral density

<u>Limit:</u>	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.
<u>Test configuration:</u>	Spectrum Analyzer EUT Non-Conducted Table Ground Reference Plane
<u>Test procedure:</u>	 Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance. Set the RBW ≥ 3 kHz. Set the VBW ≥ 3 × RBW. Set the span to 1.5 times the DTS channel bandwidth. Detector = peak. Sweep time = auto couple. Trace mode = max hold. Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat. The resulting peak PSD level must be 8dBm.
Test mode:	Refer to the clause 4.2
<u>Test data:</u>	Refer to the Appendix A
<u>Result:</u>	Passed



5.7. Conducted Band edge and Spurious Emission

Limit: FCC CFR Title 47 Part 15 Subpart C Section15.247 (d): 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. Test configuration: Spectrum Analyzer Image: Connect the antenna port(s) to the spectrum analyzer input. 1. Connect the antenna port(s) to the spectrum analyzer input. 2. Emission level measurement Set the center frequency and span to encompass frequency range to be measured RBW = 100 kHz, VBW ≥ 3 x RBW Detector = peak, Sweep time = auto couple, Trace mode = max hold Allow trace to fully stabilize Use the peak marker function to determine the maximum amplitude level. 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer. 4. Ensure that the amplitude of all unwanted emission outside of the authorized frequency band excluding restricted frequency band excluding restricted frequency band excluding restricted frequency band stabilize, view the transmitter waveform on the spectrum analyzer. Test procedure: REW = 100 kHz, VBW ≥ 3 x RBW Detector = peak, Sweep time = auto couple, Trace mode = max hold Allow trace to fully stabilize Use the peak marker function to determi		
Test procedure: Connect the antenna port(s) to the spectrum analyzer input. E mission level measurement Set the center frequency and span to encompass frequency range to be measured. RBW = 100 kHz, VBW ≥ 3 x RBW Detector = peak, Sweep time = auto couple, Trace mode = max hold Allow trace to fully stabilize. Use the peak marker function to determine the maximum amplitude level. Test mode: Refer to the clause 4.2 Test data: Refer to the Appendix A Test data: Refer to the Appendix A	<u>Limit:</u>	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
Test procedure:1. Connect the antenna port(s) to the spectrum analyzer input.2. Emission level measurement Set the center frequency and span to encompass frequency range to be measured RBW = 100 kHz, VBW ≥ 3 x RBW Detector = peak, Sweep time = auto couple, Trace mode = max hold Allow trace to fully stabilize Use the peak marker function to determine the maximum amplitude level.3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.4. Ensure that the amplitude of all unwanted emission outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emission relative to the limit.Test mode: Test data:Refer to the clause 4.2Refer to the Appendix A	Test configuration:	EUT Non-Coaducted Table
2. Emission level measurement Set the center frequency and span to encompass frequency range to be measured RBW = 100 kHz, VBW ≥ 3 x RBW Detector = peak, Sweep time = auto couple, Trace mode = max hold Allow trace to fully stabilize Use the peak marker function to determine the maximum amplitude level. 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer. 4. Ensure that the amplitude of all unwanted emission outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emission relative to the limit. Test mode: Refer to the clause 4.2 Refer to the Appendix A Refer to the Appendix A		Ground Reference Plane
Test data: Refer to the Appendix A	<u>Test procedure:</u>	 Emission level measurement Set the center frequency and span to encompass frequency range to be measured RBW = 100 kHz, VBW ≥ 3 x RBW Detector = peak, Sweep time = auto couple, Trace mode = max hold Allow trace to fully stabilize Use the peak marker function to determine the maximum amplitude level. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer. Ensure that the amplitude of all unwanted emission outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report
	Test mode:	Refer to the clause 4.2
Result: Passed	<u>Test data:</u>	Refer to the Appendix A
	Result:	Passed



5.8. Radiated Band edge Emission

Limit:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d): In any 100 kHz bandwidth outside the frequency band in which the spread						
	spectrum or digitally modulated intentional radiator is operating, Radiated Emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the Radiated Emissions limits specified in §15.209(a) (see §15.205(c)).						
<u>Test configuration:</u>	EUT 1 ~ 4m 1.5m 30cm 4dm 5pectrum analyzer Pre-amp 0 0 0 0 0 0 0 0 0 0 0 0 0						
<u>Test procedure:</u>	 The EUT was setup and tested according to ANSI C63.10 . The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. Thisis repeated for both horizontal and vertical polarization of the antenna. In order to find themaximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement. Use the following spectrum analyzer settings: a) Span shall wide enough to fully capture the emission being measured b) Set RBW=100kHz for <1GHz, VBW=3*RBW, Sweep time=auto, Detector=peak, Trace=max hold c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement d) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=Average, Trace=RMS for Average measurement 						
<u>Test mode:</u>	Refer to the clause 4.2						
<u>Result:</u>	Passed						

Note:

- 1) Level= Reading + Factor; Factor = Antenna Factor+ Cable Loss- Preamp Factor
- 2) Margin = Limit Level
- 3) Average measurement was not performed if peak level is lower than average limit
- 4) The other emission levels were very low against the limit.





Have pre-scan all test channel, found 11B mode which it was worst case, so only show the worst case's data on this report.

Test channel:CH1										
Freq. (MHz)	Reading (dBuv)	Ant. Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correc tion Factor (dB/m)	Level (dBuv)	Limit (dBu V/m)	Margin (dB)	Remark	Polarity
2390.00	69.89	28.62	4.08	38.62	-5.92	63.97	74	10.03	Peak	Horizontal
2390.00	51.01	28.62	4.08	38.62	-5.92	45.09	54	8.91	Average	Horizontal
2390.00	69.31	28.62	4.08	38.62	-5.92	63.39	74	10.61	Peak	Vertical
2390.00	50.25	28.62	4.08	38.62	-5.92	44.33	54	9.67	Average	Vertical

Test channel:CH11										
Freq. (MHz)	Reading (dBuv)	Ant. Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correc tion Factor (dB/m)	Level (dBuv)	Limit (dBu V/m)	Margin (dB)	Remark	Polarity
2483.50	70.19	29.45	3.91	40.17	-6.81	63.38	74	10.62	Peak	Horizontal
2483.50	50.26	29.45	3.91	40.17	-6.81	43.45	54	10.55	Average	Horizontal
2483.50	68.60	29.45	3.91	40.17	-6.81	61.79	74	12.21	Peak	Vertical
2483.50	51.04	29.45	3.91	40.17	-6.81	44.23	54	9.77	Average	Vertical

5.9. Radiated Spurious Emission

Limit:

FCC CFR Title 47 Part 15 Subpart C Section 15.209

Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

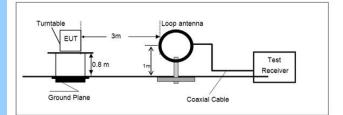
Limit dBuV/m @3m = Limit dBuV/m @300m + 40*log(300/3

Limit dBuV/m @3m = Limit dBuV/m @30m +40*log(30/3)

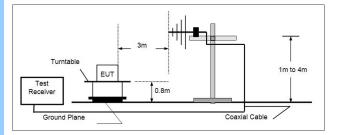
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
Above IGHZ	74.00	Peak

Test configuration:

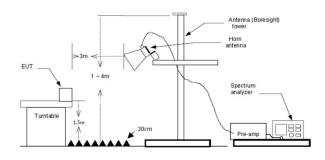
9kHz~30MHz



30 MHz ~ 1 GHz



Above 1 GHz



Test procedure:	1. The EUT was setup and tested according to ANSI C63.10.
	2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
	 The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
	4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
	5. Set to the maximum power setting and enable the EUT transmit continuously.
	6. Use the following spectrum analyzer settings
	 a) Span shall wide enough to fully capture the emission being measured;
	b) Below 1 GHz:
	RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;
	If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
	 c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement
	 d) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=Average, Trace=RMS for Average measurement
Test mode:	Refer to the clause 4.2
Result:	Passed
I COURT	

Note:

- 1) Level= Reading + Factor/Transd; Factor/Transd =Antenna Factor+ Cable Loss- Preamp Factor
- 2) Margin = Limit Level
- Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.
- 4) The other emission levels were very low against the limit.
- 5) This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position.

For 9 kHz ~ 30 MHz

The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.



For 30 MHz ~ 1000 MHz

Have pre-scan all test channel, found 11B mode CH01 which it was worst case, so only show the worst case's data on this report.









For 1 GHz ~ 25 GHz

Have pre-scan all test channel, found 11B mode which it was worst case, so only show the worst case's data on this report.

Test chan	Test channel:CH01									
Freq. (MHz)	Reading (dBuv)	Ant. Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correc tion Factor (dB/m)	Level (dBuv)	Limit (dBu V/m)	Margin (dB)	Remark	Polarity
4824.00	69.53	31.33	4.23	38.62	-3.06	66.47	74	7.53	Peak	Horizontal
4824.00	49.24	31.33	4.23	38.62	-3.06	46.18	54	7.82	Average	Horizontal
4824.00	65.34	31.33	4.23	38.62	-3.06	62.28	74	11.72	Peak	Vertical
4824.00	51.30	31.33	4.23	38.62	-3.06	48.24	54	5.76	Average	Vertical

Test channel:CH06										
Freq. (MHz)	Reading (dBuv)	Ant. Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correc tion Factor (dB/m)	Level (dBuv)	Limit (dBu V/m)	Margin (dB)	Remark	Polarity
4874.00	70.19	30.26	4.09	38.29	-3.94	66.25	74	7.75	Peak	Horizontal
4874.00	50.29	30.26	4.09	38.29	-3.94	46.35	54	7.65	Average	Horizontal
4874.00	67.35	30.26	4.09	38.29	-3.94	63.41	74	10.59	Peak	Vertical
4874.00	51.01	30.26	4.09	38.29	-3.94	47.07	54	6.93	Average	Vertical

Test channel:CH11										
Freq. (MHz)	Reading (dBuv)	Ant. Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correc tion Factor (dB/m)	Level (dBuv)	Limit (dBu V/m)	Margin (dB)	Remark	Polarity
4924.00	63.94	31.97	4.11	38.47	-2.39	61.55	74	12.45	Peak	Horizontal
4924.00	50.13	31.97	4.11	38.47	-2.39	47.74	54	6.26	Average	Horizontal
4924.00	67.78	31.97	4.11	38.47	-2.39	65.39	74	8.61	Peak	Vertical
4924.00	50.71	31.97	4.11	38.47	-2.39	48.32	54	5.68	Average	Vertical



5.10. Duty Cycle Correction Factor (DCCF)

Limit:	
Test configuration:	Spectrum Analyzer EUT Non-Conducted Table
	Ground Reference Plane
<u>Test procedure:</u>	 The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel, RBW= 10 MHz, VBW ≥ RBW, Sweep = as necessary to capture the entire dwell time channel Detector function = RMS, Trigger mode Measure and record the duty cycle data
<u>Test mode:</u>	Refer to the clause 4.2
<u>Test data:</u>	Refer to the Appendix A
<u>Result:</u>	Passed



6. TEST SETUP PHOTOS

Please refer to separated files for Test Setup Photos of the EUT.

7. EXTERNAL AND INTERNAL PHOTOS

7.1. External Photos

Please refer to separated files for External Photos of the EUT.

7.2. Internal photos

Please refer to separated files for Internal Photos of the EUT.

-----End of the report-----