

TEST REPORT

Report No.: BCTC2405788331-4E

Applicant: REOLINK INNOVATION LIMITED

Product Name: WiFi NVR

Test Model: Reolink Home Hub Pro

Tested Date: 2024-05-31 to 2024-07-25

Issued Date: 2024-07-25

Shenzhen BCTC Testing Co., Ltd.



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FCC ID: 2AYHE-2403B

replink Trademark:

Reolink Home Hub Pro Model/Type reference:

Hub P1

Prepared For: REOLINK INNOVATION LIMITED

FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN Address:

STREET MONG KOK KL HONG KONG

Manufacturer: REOLINK INNOVATION LIMITED

FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN Address:

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Factory: Shenzhen Reolink Technology Co., Ltd.

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Prepared By: Shenzhen BCTC Testing Co., Ltd.

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Sample Received Date: 2024-05-31

Sample tested Date: 2024-05-31 to 2024-07-25

Issue Date: 2024-07-25

Report No.: BCTC2405788331-4E

FCC Part15.249 Test Standards: ANSI C63.10-2013

Test Results: **PASS**

Tested by:

Brave Zeng/ Project Handler

Zero Zhou/Reviewer

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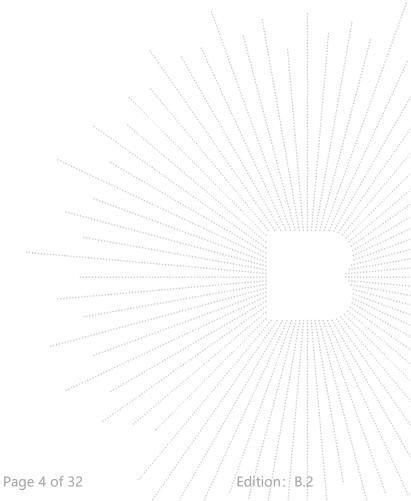
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(Note: N/A means not applicable)



Version 1.

Report No.	Issue Date	Description	Approved
BCTC2405788331-4E	2024-07-25	Original	Valid



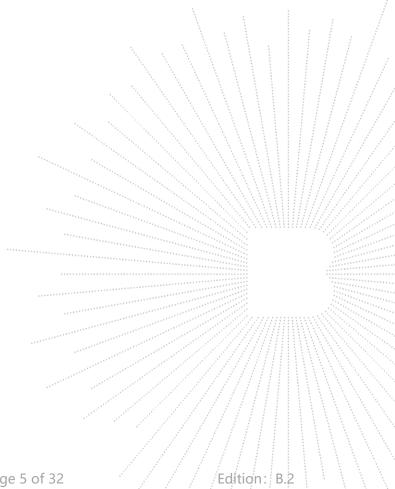
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2. Test Summary

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No.	Results
1	Conducted Emission	15.207	PASS
2	20dB Bandwidth	15.215	PASS
3	Fundamental &Radiated Spurious Emission Measurement	15.249	PASS
4	Band Edge Emission	15.205	PASS
5	Antenna Requirement	15.203	PASS



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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(9kHz-30MHz)	U=3.7dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
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

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4. Product Information And Test Setup

4.1 Product Information

Model/Type reference:	Reolink Home Hub Pro Hub P1
Model differences:	All the model are the same circuit and RF module, except model names.
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	915 MHz
Type of Modulation:	LoRa
Number Of Channel	1CH
Antenna installation:	Internal antenna
Antenna Gain:	 1.59 dBi Remark: The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information. The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.
Ratings:	DC 12V from adapter
Adapter Information:	Model: DCT24W120200US-A0 Input: 100-240V~50/60Hz 0.7A max. Output: DC 12.0V 2.0A

4.2 Test Setup Configuration

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

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4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	WiFi NVR	replink	Reolink Home Hub Pro	N/A	EUT
E-2	keyboard	Logitech	1641MG01DLZ 8	N/A	Auxiliary
E-3	Mouse	Logitech	M-U0026		Auxiliary
E-4	HDMI Cable	Belkin	HDMI2.0		Auxiliary
E-5	Display	ChangHong	55DBK		Auxiliary
E-6	WiFi camera				Auxiliary
E-7	Adapter		DCT24W12020 0US-A0		Auxiliary
E-8	TF card	SanDisk	128G		Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	1M	DC cable unshielded

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

СН	Frequency (MHz)
1	915

4.5 Test Mode

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.

Test Mode	Test mode
1	Transmitting

Note:

(1) Fully-charged battery is used during the test

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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, Zhancheng, 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 A2LA certificate registration number is: CN1212 ISED Registered No.: 23583

ISED CAB identifier: CN0017

5.2 Test Instrument Used

Conducted Emissions Test							
Equipment Manufacturer Model# Serial# Last Cal. Next Ca							
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025		
LISN	R&S	ENV216	101375	May 16, 2024	May 15, 2025		
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\		
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	May 16, 2024	May 15, 2025		

RF Conducted Test						
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.	
Power meter	Keysight	E4419	\	May 16, 2024	May 15, 2025	
Power Sensor (AV)	Keysight	E9300A	\	May 16, 2024	May 15, 2025	
Signal Analyzer20kH z-26.5GHz	Keysight	N9020A	MY49100060	May 16, 2024	May 15, 2025	
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025	

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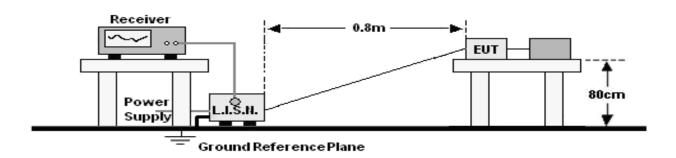
Radiated Emissions Test (966 Chamber02)						
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.	
966 chamber	SKET	966 Room	966	Nov. 02. 2021	Nov. 01.2024	
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025	
Receiver	R&S	ESRI7	100010	Nov. 13. 2023	Nov. 12, 2024	
Amplifier	SKET	LNPA-30M01 G-30	SK2021082004	Nov. 13. 2023	Nov. 12, 2024	
TRILOG Broadband Antenna	Schwarzbeck	VULB9168	1323	May 21, 2024	May 20, 2025	
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 21, 2024	May 20, 2025	
Amplifier	SKET	LAPA_01G18 G-45dB	SK202104090 1	May 16, 2024	May 15, 2025	
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 21, 2024	May 20, 2025	
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 16, 2024	May 15, 2025	
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 21, 2024	May 20, 2025	
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025	
Software	Frad	EZ-EMC	FA-03A2 RE	\	\	
Filter	COM-MW	ZBSF6-C820 -920-4421	01242801	May 16, 2024	May 15, 2025	

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6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

EDECLIENCY (MU-)	Limit	(dBuV)
FREQUENCY (MHz)	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).

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.

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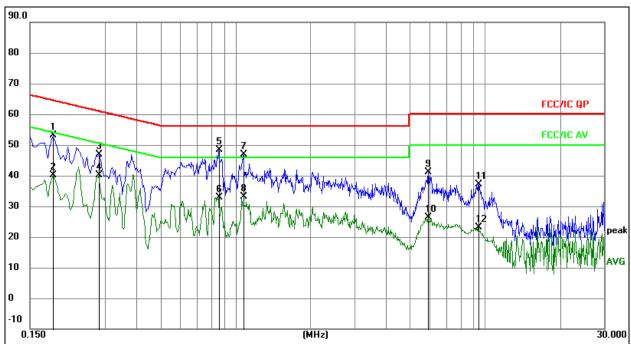
b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.

c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.



6.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	Line
Test Voltage:	AC120V/60Hz	Test Mode:	Mode 1



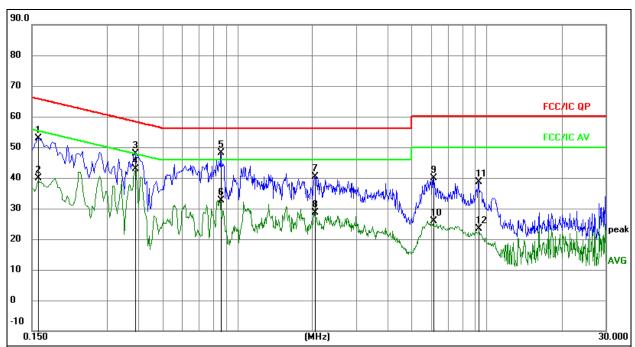
Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.
- 3. Measurement=Reading Level+ Correct Factor
- 4. Over=Measurement-Limit

		_	Reading	Correct	Measure-	Linnit	0,40,5	
No.	Mk.	Freq.	Level	Factor	ment	Limit	Over	
		MHz		dB	dBu∨	dBuV	dB	Detector
1		0.1853	33.32	19.80	53.12	64.24	-11.12	QP
2		0.1853	20.44	19.80	40.24	54.24	-14.00	AVG
3		0.2847	27.17	19.83	47.00	60.68	-13.68	QP
4		0.2847	20.22	19.83	40.05	50.68	-10.63	AVG
5	*	0.8573	28.48	19.90	48.38	56.00	-7.62	QP
6		0.8573	13.09	19.90	32.99	46.00	-13.01	AVG
7		1.0710	26.98	19.95	46.93	56.00	-9.07	QP
8		1.0710	13.14	19.95	33.09	46.00	-12.91	AVG
9		5.9293	21.00	20.21	41.21	60.00	-18.79	QP
10		5.9293	6.08	20.21	26.29	50.00	-23.71	AVG
11		9.4514	17.27	19.89	37.16	60.00	-22.84	QP
12		9.4514	3.17	19.89	23.06	50.00	-26.94	AVG



Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	Neutral
Test Voltage:	AC120V/60Hz	Test Mode:	Mode 1



Remark:

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

- 4. Over= Measurement-Limit

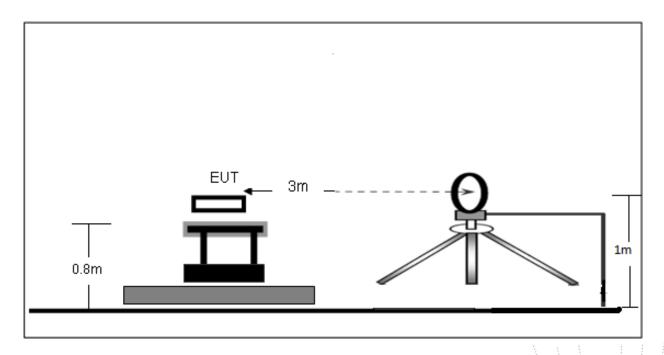
0 10.	wioacare	THORIC LITTIC				<u> </u>	- 	_ : : : :
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz		dB	dBu∨	dBu∀	dB	Detector
1		0.1590	33.23	19.75	52.98	65.52	-12.54	QP
2		0.1590	20.15	19.75	39.90	55.52	-15.62	AVG
3		0.3885	28.00	19.84	47.84	58.10	-10.26	QP
4	*	0.3885	22.94	19.84	42.78	48.10	-5.32	AVG
5		0.8610	28.33	19.90	48.23	56.00	-7.77	QP
6		0.8610	12.68	19.90	32.58	46.00	-13.42	AVG
7		2.0445	20.42	19.97	40.39	56.00	-15.61	QP
8		2.0445	8.59	19.97	28.56	46.00	-17.44	AVG
9		6.0900	19.60	20.17	39.77	60.00	-20.23	QP
10		6.0900	5.69	20.17	25.86	50.00	-24.14	AVG
11		9.2805	18.66	19.90	38.56	60.00	-21.44	QP
12		9.2805	3.41	19.90	23.31	50.00	-26.69	AVG



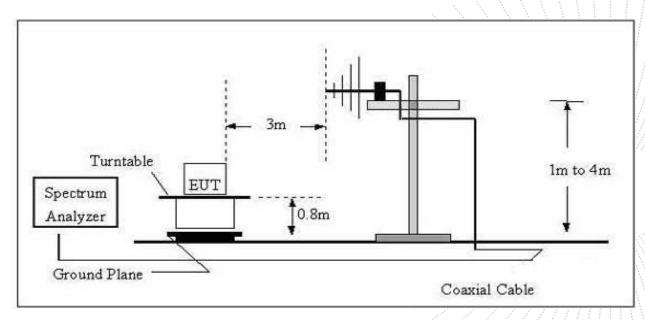
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

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

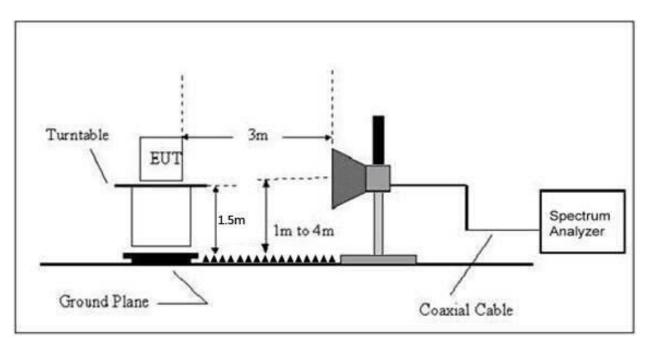


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





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



7.2 Limit

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⁾	

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

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LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)		
FREQUENCY (MH2)	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.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

7.3 Test Procedure

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

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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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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 (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.
- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).
- h. Test the EUT in the lowest channel,the middle 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.

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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.

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.

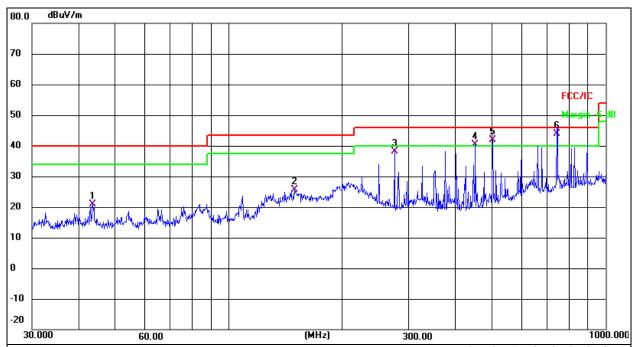
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7.5 Test Result

Between 30MHz - 1GHz

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 1	Test Voltage :	AC 120V/60Hz



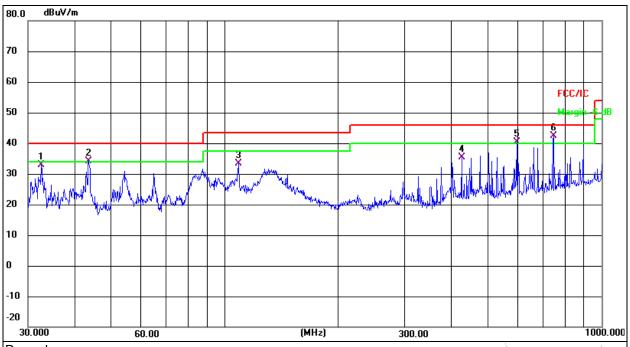
Remark:

- 1. Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. Measurement=Reading Level+ Correct Factor
- 3. Over=Measurement-Limit

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	43.5057	33.09	-12.17	20.92	40.00	-19.08	QP
2	149.4857	36.96	-11.43	25.53	43.50	-17.97	QP
3	275.1570	49.78	-11.69	38.09	46.00	-7.91	QP
4!	451.1350	47.05	-6.71	40.34	46.00	-5.66	QP
5!	501.1790	47.42	-5.51	41.91	46.00	-4.09	QP
6 *	742.5661	44.46	-0.56	43.90	46.00	-2.10	QP



Temperature:	26 ℃	Relative Humidity:	54%	
Pressure:	101KPa	Phase :	Vertical	
Test Mode:	Mode 1	Test Voltage :	AC 120V/60Hz	



Remark:

- 1. Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. Measurement=Reading Level+ Correct Factor
- 3. Over=Measurement-Limit

Į							
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	32.5198	45.45	-12.54	32.91	40.00	-7.09	QP
2!	43.5057	46.37	-12.17	34.20	40.00	-5.80	QP
3	108.6470	47.82	-14.35	33.47	43.50	-10.03	QP
4	425.0280	42.81	-7.33	35.48	46.00	-10.52	QP
5 !	595.1329	43.43	-3.15	40.28	46.00	-5.72	QP
6 *	744.8661	43.00	-0.54	42.46	46.00	-3.54	QP

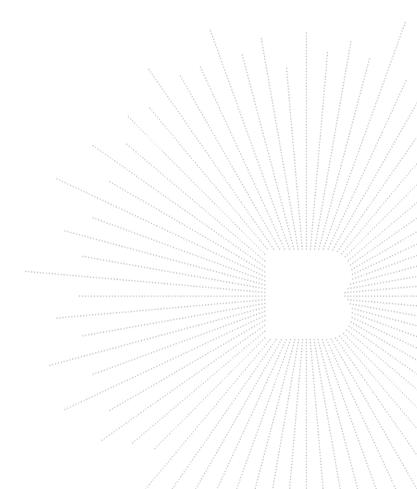


(Above 1000 MHz)

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
			915	MHz			
V	1830.00	80.42	-26.97	53.45	74.00	-20.55	PK
V	1830.00	69.53	-26.97	42.56	54.00	-11.44	AV
V	2745.00	75.55	-24.37	51.18	74.00	-22.82	PK
V	2745.00	66.20	-24.37	41.83	54.00	-12.17	AV
V	3660.00	76.42	-22.28	54.14	74.00	-19.86	PK
V	3660.00	67.19	-22.28	44.91	54.00	-9.09	AV
Н	1830.00	83.09	-26.97	56.12	74.00	-17.88	PK
Н	1830.00	73.52	-26.97	46.55	54.00	-7.45	AV
Н	2745.00	76.22	-24.37	51.85	74.00	-22.15	PK
Н	2745.00	67.86	-24.37	43.49	54.00	-10.51	AV
Н	3660.00	71.04	-22.28	48.76	74.00	-25.24	PK
Н	3660.00	62.39	-22.28	40.11	54.00	-13.89	AV

Remark:

Absolute Level= Reading Level+ Factor, Margin= Limit- Absolute Level Other harmonics emissions are lower than 20dB below the allowable limit.



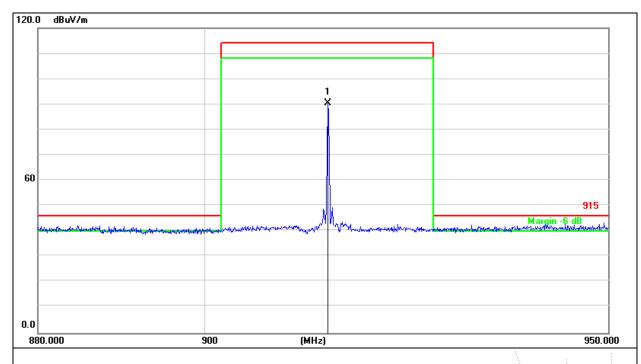
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Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Transmitting		

915 MHz Horizontal

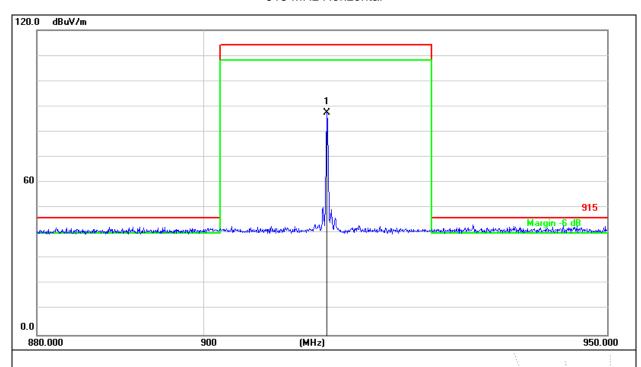


No. N	Иk.	Freq.		Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1 *	* 9 ⁻	15.0000	93.46	-3.07	90.39	94.0	-3.61	QP



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

915 MHz Horizontal

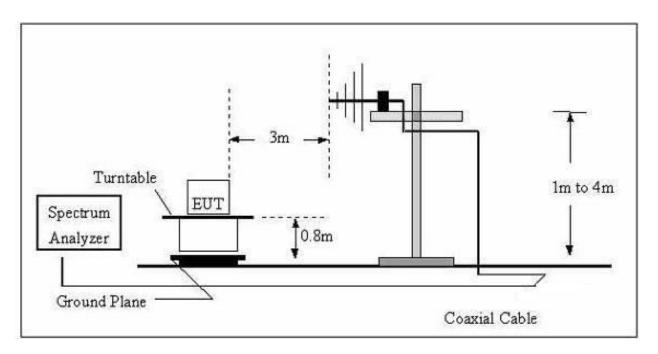


No.	M	k. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	915.0000	90.43	-3.07	87.36	94.0	-6.64	QP



8. 100 KHz Bandwidth Of Frequency Band Edge

8.1 Block Diagram Of Test Setup



8.2 Applicable Standard

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.

8.3 Test Procedure

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range. c.VBW for Peak, Quasi-peak, or Average Detector Function: 3 × RBW
- d. Repeat above procedures until all measured frequencies were complete. 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 tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

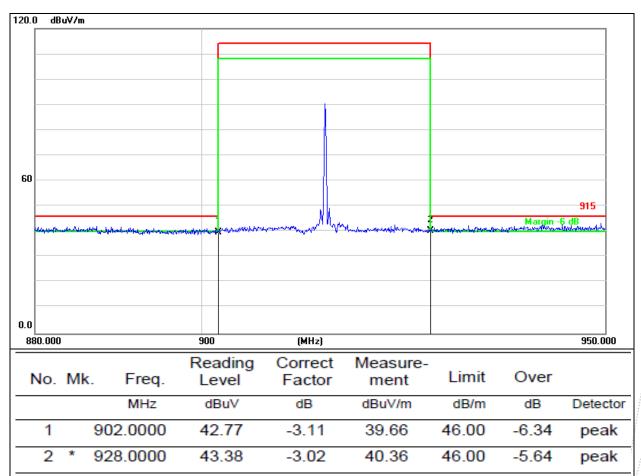
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8.5 Test Result

Temperature: 26 °C		Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Transmitting		

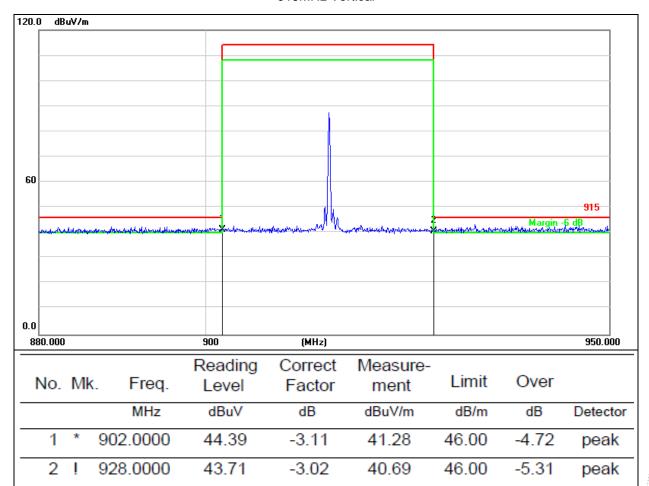
915 MHz Horizontal



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915MHz Vertical





9. 20 Db Bandwidth

9.1 Block Diagram Of Test Setup



9.2 Limit

FCC Part15 (15.249) , Subpart C					
Section	Test Item	Frequency Range (MHz) Result			
15.249	Bandwidth	902~928	PASS		

9.3 Test Procedure

- 1. Set resolution bandwidth (RBW) = 1-5% or DTS BW, not to exceed 100 kHz.
- 2. Set the video bandwidth (VBW) ≥ 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) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

9.4 EUT Operation Conditions

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

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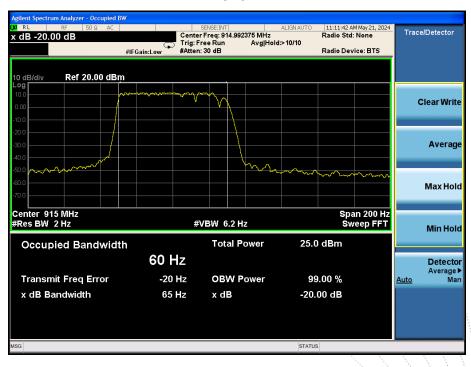
9.5 Test Result

Report No.: BCTC2405788331-4E

Temperature:	26°C	Relative Humidity:	54%
Test Voltage:	AC 120V/60Hz	Remark:	N/A

Channel	Frequency (MHz)	20dB bandwidth (kHz)
01	915	0.065

CH01



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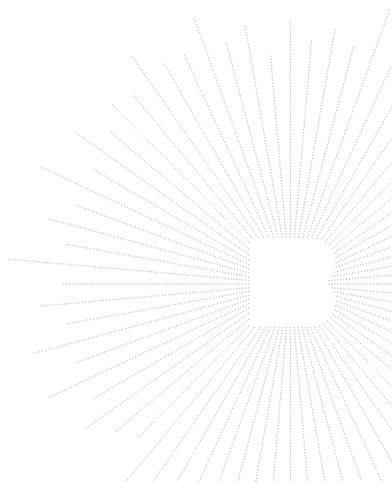
10. Antenna Requirement

10.1 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.

10.2 Test Result

The EUT antenna is Internal antenna, The antenna gain is 1.59 dBi, fulfill the requirement of this section.



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11. EUT Photographs

EUT Photo 1



EUT Photo 2



NOTE: Appendix-Photographs Of EUT Constructional Details

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12. EUT Test Setup Photographs

Conducted Measurement Photo

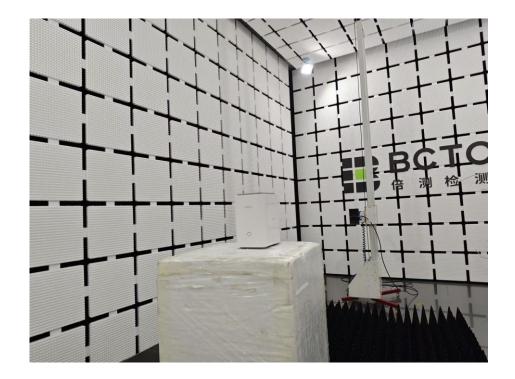


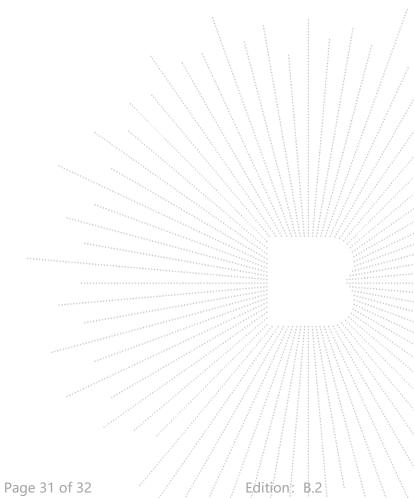
Radiated Measurement Photos



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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 the "special seal for inspection and testing".
- 4. The test report is invalid without the signature of the approver.
- 5. The test process and test result is only related to the Unit Under Test.
- 6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
- 7. The quality system of our laboratory is in accordance with ISO/IEC17025.
- 8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address:

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**** END ****

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