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FCC 47 CFR PART 15 SUBPART C ANSI C63.10: 2013

TEST REPORT

For

Door/Window Sensor

Model: ZD2106US-7

Data Applies To: N/A



Test Report Number: T210503N04-RP1

Issued to:

Vision Automobile Electronics Industrial Co Ltd

No.78, Gongye 3rd Rd., Technology Industrial Park, Tainan Taiwan 70955

Issued by:

Compliance Certification Services Inc.

Tainan Lab.

No.8, Jiucengling, Xinhua Dist., Tainan City , Taiwan

Issued Date: May 27, 2021

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REVISION HISTORY

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	May 20, 2021	Initial Issue	ALL	Gina Lin
01	May 27, 2021	See the following note rev.01	Page 5~6	Gina Lin

Note:

- Rev.00 Issue Date: May 20, 2021 Original Report
- Rev.01 Issue Date: May 27, 2021
 Revise EUT description & general test procedures.



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1. TEST RESULT CERTIFICATION

Product: Door/Window Sensor

Model: ZD2106US-7

Data Applies To: N/A

Brand Name:



Applicant:Vision Automobile Electronics Industrial Co LtdNo.78, Gongye 3rd Rd., Technology Industrial Park, Tainan Taiwan 70955Manufacture:Vision Automobile Electronics Industrial Co LtdNo.78, Gongye 3rd Rd., Technology Industrial Park, Tainan Taiwan 70955Testee:May 10, 2021 ~ May 11, 2021

APPLICABLE STANDARDS		
STANDARD	TEST RESULT	
FCC 47 CFR Part 15 Subpart C ANSI C63.10: 2013	No non-compliance noted	

Statements of Conformity

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

FCC Standard Section	Report Section	Test Item	Result
15.215(c)	7.1	20dB BANDWIDTH	Pass
-	7.3	DUTY CYCLE	-
15.249(a)	7.4	SPURIOUS EMISSION	Pass
15.207(a)	7.5	POWERLINE CONDUCTED EMISSIONS	N/A

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10: 2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements emission limits of FCC Rules Part 15.107, 15.109,15.207, 15.209 and 15.249.

The test results of this report relate only to the tested sample identified in this report.

Approved by:

Eric Huang Section Manager

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2. EUT DESCRIPTION

Product	Door/Window Sensor
Model Number	ZD2106US-7
Data Applies To	N/A
Brand Name	VISION
Received Date	May 03, 2021
Reported Date	May 13, 2021
Operation Frequency	908.42MHz/9.6Kbps, 908.40MHz/40Kbps, 916.00MHz/100Kbps
Transmit Peak Power	81.830dBuV/m
Transmit Data Rate	9.6Kbps, 40Kbps, 100Kbps,
Type of Modulation	FSK
Number of Channels	1 Channel
Power Supply	DC 3.5V
Antenna Type	Type: Chip Antenna Model: ANT1204F007R0915A Manufacturer: Yageo Gain: 1.59 dBi
RF Module Brand /Model	Silicon Labs / ZGM130S
Hardware Version	Rev.0
Software Version	Rev.0
Temperature Range	-15°C ~ +60°C

Remark:

1. Client consigns only one model sample to test (Model Number: **ZD2106US-7**). Therefore, the testing Lab. just guarantees the unit, which has been tested.

2. This submittal(s) (test report) is intended for FCC ID: **KFR-ZD2106US-7** filing to comply with Section 15.207, 15.209, 15.249.

3. For more details, please refer to the User's manual of the EUT.



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3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10 and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, 15.207, 15.209 and 15.249.

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209, 15.249 under the FCC Rules Part 15 Subpart C.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2.2 of ANSI C63.10 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m and 1.5 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.5.4 and Section 6.6.4.2 of ANSI C63.10.



3.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

1. 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 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	(2)
13.36 - 13.41	322 - 335.4		

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

2. Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

3.5 DESCRIPTION OF TEST MODES

The EUT (**Model: ZD2106US-7**) had been tested under engineering test mode condition and the EUT staying in continuous transmitting mode.

Note :

The field strength of spurious emission was measured in the following position:

1) The field strength of spurious emission was measured in the following position: EUT stand-up position (Y axis), lie-down position (X, Z axis). The worst emission was found in lie-down position (X axis) and the worst case was recorded.



4. INSTRUMENT CALIBRATION

4.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

4.2 MEASUREMENT EQUIPMENT USED

Chamber Room #966							
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due		
Active Loop Antenna	ETS-LINDREN	6502	8905-2356	08/02/2019	08/01/2021		
Bilog Antenna With 6dB Attenator	SUNOL SCIENCES & EMCI	JB1 & AT-N0681	A070506-1 & AT-N0681	09/14/2020	09/13/2021		
Cable	Suhner	SUCOFLEX1 04PEA	20520/4PEA&O 6	01/29/2021	01/28/2022		
Double Ridged Guide Horn Antenna	ETS-LINDGREN	3116	00078900	03/30/2021	03/29/2022		
EMI Test Receiver	R&S	ESCI	100960	02/05/2021	02/04/2022		
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY54430216	07/20/2020	07/19/2021		
Horn Antenna	Com-Power	AH-118	071032	05/04/2021	05/03/2022		
Pre-Amplifier	EMCI	EMC012645	980098	01/29/2021	01/28/2022		
Pre-Amplifier	HP	8447F	2443A01683	01/19/2021	01/18/2022		
Pre-Amplifier	Com-Power	PAM-840A	461378	07/20/2020	07/19/2021		
Type N coaxial cable	Suhner	CHA9513	6	01/19/2021	01/18/2022		
Notch Filter	MICRO-TRONIC S	BRM50702-01	018	N.C.R	N.C.R		
Software	E	Excel(ccs-o6-2	2020 v1.1),e3	(v6.101222)			

Equipment Used for Emissions Measurement

Remark: Each piece of equipment is scheduled for calibration once a year.



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4.3 MEASUREMENT UNCERTAINTY

Parameter	Uncertainty
Radiated Emission, 30 to 200 MHz Test Site : CB966	±3.1dB
Radiated Emission, 200 to 1000 MHz Test Site : CB966	±2.7dB
Radiated Emission, 1 to 6 GHz	± 2.7dB
Radiated Emission, 6 to 18 GHz	± 2.7dB
Radiated Emission, 18 to 26.5 GHz	± 2.7dB
Radiated Emission, 26 to 40 GHz	± 3.7dB
Power Line Conducted Emission	± 2.0dB

Uncertainty figures are valid to a confidence level of 95%, k=2



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5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

⊠ No.8, Jiucengling, Xinhua Dist., Tainan City 712, Taiwan (R.O.C.)

The sites are constructed in conformance with the requirements of ANSI C63.7:1992, ANSI C63.10: 2013 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.3 LABORATORY ACCREDITATIONS LISTING

The test facilities used to perform radiated and conducted emissions tests are accredited by Taiwan Accreditation Foundation for the specific scope of accreditation under Lab Code: 1109 to perform Electromagnetic Interference tests according to FCC PART 15 AND CISPR 22 requirements. No part of this report may be used to claim or imply product endorsement by TAF or any agency of the Government. In addition, the test facilities are listed with Federal Communications Commission (registration no: TW1109).



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5.4 TABLE OF ACCREDITATIONS AND LISTINGS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

Taiwan TAF

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada	Industry Canada
Germany	TUV NORD
Taiwan	BSMI
USA	FCC
Japan	VCCI

Copies of granted accreditation certificates are available for downloading from our web site, http://www.ccsrf.com



6. SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

6.2 SUPPORT EQUIPMENT

[RF]

No.	Product	Manufacturer	Model No.	Certify No.	Signal cable		
1	N/A	N/A	N/A	N/A	N/A		
No.	No. Signal cable description						

[EMC]

No.	Product	Manufacturer	Model No.	Certify No.	Signal cable	
1	N/A	N/A	N/A	N/A	N/A	
No.	No. Signal cable description					
А	A N/A					

Remark:

- 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.



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6.3 CONFIGURATION OF SYSTEM UNDER TEST

[RF]



6.4 EUT OPERATING CONDITION

RF Setup

- 1. Set up a whole system as the setup diagram.
- 2. Turn on power.



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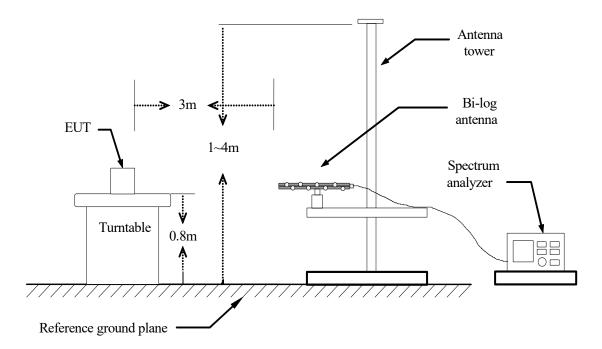
7. FCC PART 15.249 REQUIREMENTS

7.1 20 dB BANDWIDTH

LIMIT

None; for reporting purposes only.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Set the spectrum analyzer in the following setting as: RBW is set to 3 kHz and VBW is set 10kHz.



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TEST RESULTS

No non-compliance noted.

TEST DATA

Operation Mode:	ТХ	Test Date:	5/11/2021
Temperature:	26.5°C	Tested by:	Ted Huang
Humidity:	43% RH	Polarity:	Ver. / Hor.

Data Rate (Kbps)	Frequency (MHz)	20 dB Bandwidth (kHz)
9.6	908.42	98.40
40	908.4	93.52
100	916	122.90



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TEST PLOT

	908	3.42MHz/9	.6Kbps		
Keysight Spectrum Analyzer - Occupied I	w		- T	-	
X RL RF 50 Ω DC Center Freq 908.420000	MHz C	SENSE:INT enter Freq: 908.420000	ALIGN AUTO	11:53:43 AM May 10, 2021 Radio Std: None	Trace/Detector
		rig: Free Run Ar Atten: 10 dB	/g Hold:>10/10	Radio Device: BTS	
10 dB/div Ref 101.99 d	ЗµV				
-09 15.0 25.0					Clear Write
15.0			<u></u>		
55.0					Average
5.0					Max Hol
95.0					
enter 908.4 MHz Res BW 3 kHz		#VBW 10 kHz		Span 200 kHz Sweep 21.13 ms	Min Hol
Occupied Bandwid		Total Pow	er 77.6	i dBμV	
ę	0.211 kHz				Detecto Peak
Transmit Freq Error	-1.171 kHz	OBW Pow	er 99	9.00 %	Auto <u>Ma</u>
x dB Bandwidth	98.40 kHz	x dB	-20	.00 dB	
6G			STATU	IS	

	908.4	40MHz/40ł	K bps		
Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω DC Center Freq 908.400000 N	IHz Center Trig: F	SENSE:INT Freq: 908.400000 MHz free Run Avg Hol : 10 dB	Radio St ld:>10/10	AM May 10, 2021 d: None evice: BTS	Trace/Detector
10 dB/div Ref 101.99 dB Log -15.0 -25.0	Vi				Clear Write
-35.0 -45.0 -55.0 -66.0					Average
-75.0 -85.0 -95.0					Max Hold
Center 908.4 MHz #Res BW 3 kHz	#	VBW 10 kHz		in 200 kHz 21.13 ms	Min Hold
Occupied Bandwidti 9(ո).844 kHz	Total Power	75.1 dΒµV	I	Detector Peak▶
Transmit Freq Error x dB Bandwidth	-2.036 kHz 93.52 kHz	OBW Power x dB	99.00 % -20.00 dB		Auto <u>Man</u>
MSG			STATUS		



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Keysight Spectrum Analyzer - Occupie RL RF 50 Ω D0 pan 300.00 kHz		Trig: F	SENSE:INT r Freq: 916.00 Free Run h: 10 dB	0000 MHz Avg Hol	ALIGN AUTO	11:58:46 A Radio Std Radio Dev			/Detector
0 dB/div Ref 101.99	dBµV								
25.0								с —	lear Writ
5.0	w/								Averag
5.0	7						www.		Max Hol
center 916 MHz Res BW 3 kHz		#	VBW 10 ki	Hz			n 300 kHz 31.67 ms		Min Hol
Occupied Bandwi	dth		Total F	ower	79.5	dBµV			
	113.73 k	Hz							Detecto
Transmit Freq Error	-92	3 Hz	OBW F	ower	99	9.00 %		Auto	Ma
x dB Bandwidth	122.9	kHz	x dB		-20.	00 dB			



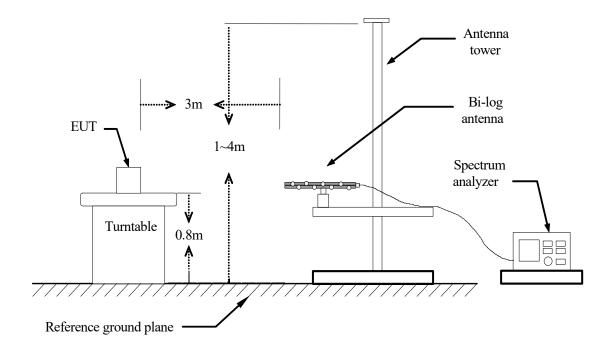
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7.2 DUTY CYCLE

<u>LIMIT</u>

Nil (No dedicated limit specified in the Rules)

TEST CONFIGURATION



TEST PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Set center frequency of spectrum analyzer = operating frequency.
- 3. Set the spectrum analyzer as RBW=1MHz, VBW=3MHz, Span = 0Hz, a suitable Sweep Time.
- 4. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

No non-compliance noted.



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TEST DATA

Operation Mode:	ТХ
Temperature:	26.5°C
Humidity:	43% RH

Test Date: 5/11/2021 Tested by: Ted Huang Polarity: Ver. / Hor.

908 MHz

	us	Times	Ton	Total Ton time(ms)
Ton1	11400	1	11400	11.40
Ton2		0	0	
Ton3		0	0	
Тр				100.00

Ton	11.40
Tp(Ton+Toff)	100.00
Duty Cycle	0.11
Duty Factor	-18.86

11.4 %



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TEST PLOT

			ç	908 N	lHz			
📕 Keysight Sp	ectrum Analyzer - Swe	pt SA						
enter F	RF 50 Ω req 908.420		Trig Delay	SE:INT /-2.000 ms o	ALIGN #Avg Type: RM Avg Hold: 2/10	AS .	56:30 AM May 11, 2021 TRACE 1 2 3 4 5 6 TYPE M WM WWW	Frequency
0 dB/div	Ref 106.99	IFGain:Lo) dB		ΔMk	r1 11.40 ms 0.037 dB	Auto Tun
.°g								Center Fre
97.0								908.420000 MH
87.0	¹ ∆2 ¹ ∆2 ¹							Start Fre 908.420000 M⊦
77.0							TRIG LVL	
67.0								Stop Fre 908.420000 M⊦
47.0								CF Ste 1.000000 MH Auto Ma
27.0	เขาตางงารับประวังสา	h laine like for barres	inverses and a start when the	hunganthing	mhriddfyddiadawndiddord	mmunulup	Manaliante, of the low provident a	Freq Offso 0 ⊦
17.0								
Center 90 Res BW 1)8.420000 MH 1.0 MHz		VBW 3.0 MHz		Swe	ep 150.0	Span 0 Hz ms (1001 pts)	
SG						STATUS		



7.3 SPURIOUS EMISSION

<u>LIMIT</u>

1. In the section 15.249(a):

Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental Field Strength (mV/m)	Field Strength of Harmonics (µV/m)
902-928 MHz	50	500
2400 - 2483.5 MHz	50	500
5725 - 5875 MHz	50	500
24.0 - 24.25 GHz	250	2500

2. Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (µV/m)	Measurement Distance (m)
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

3. In the above emission table, the tighter limit applies at the band edges.

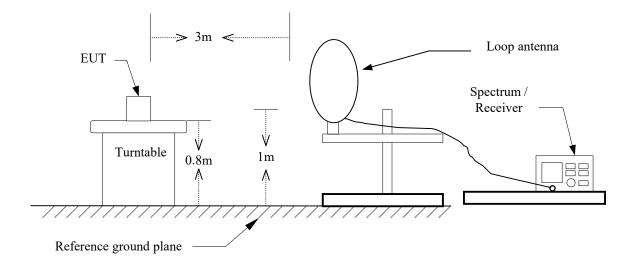
Frequency (MHz)	Field Strength (µV/m at 3-meter)	Field Strength (dBµV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54



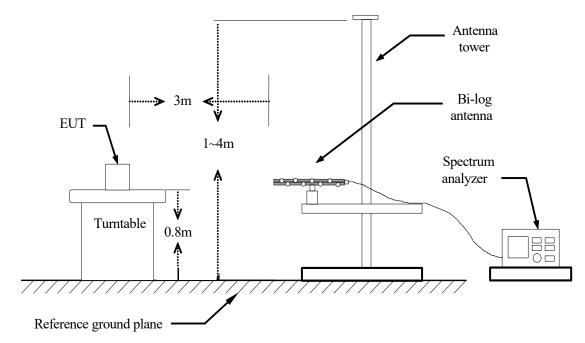
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TEST CONFIGURATION

9kHz ~ 30MHz

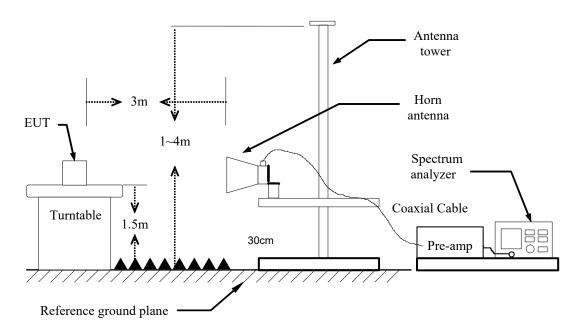


$30MHz \sim 1GHz$





Above 1 GHz



TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8/1.5m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Set the spectrum analyzer in the following setting as: Below 1GHz:

RBW=100kHz / VBW=300kHz / Sweep=AUTO

Above 1GHz:

- (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
- (b) AVERAGE: Peak Level + Duty Factor
- 7. Repeat above procedures until the measurements for all frequencies are complete.



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Test Date: 5/10/2021

Tested by: Ted Huang

Ver. / Hor.

Polarity:

Report No.:	T210503N04-RP1
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<u>Below 1 GHz</u>

Operation Mode: TX Temperature: 26.4°C

Humidity: 42% RH

Vertical

Level(dBuV/m) 80 70 60 50 40 30 5 6 20 10 0 273 30 150 395 515 638 760 880 1000 Frequency(MHz) Freq-**Meter Reading** Antenna Cable Emission Detector Limits Margin No. Uency at 3 m Level Factor Loss at 3 m Level Mode (MHz) (dBµV) (dB/m)(dB) $(dB\mu V/m)$ $(dB\mu V/m)$ (dB)PK/QP 1 34.85 2.35 23.62 0.81 26.78 40.00 -13.22 OP 2 68.80 15.24 13.95 1.15 30.34 40.00 -9.66 **OP** -17.04 3 100.32 8.78 16.38 1.30 26.46 43.50 QP 160.95 4 4.28 18.35 1.81 24.44 43.50 -19.06 QP 5 199.75 2.68 18.87 1.97 23.51 43.50 -19.99 QP 291.90 1.48 18.89 2.72 23.09 46.00 6 -22.91 OP

Remark:

1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).

2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.

3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.

4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

5. Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).

6. That the limit for signals below 1GHz is a QP limit and peak readings are below the QP limit.

7. The fundamental signal is not shown in the test data because measurements at fundamental frequency are shown separately and were ignored during the 30 – 1000 MHz scan.



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Oper	ation M	ode:	ТΧ					Tes	st Date	: 5/	10/2021			
Гетр	erature	:	26.4°C						Tested by: Ted Huang					
lumi	dity:		42% F	RH				Pol	arity:	Ve	r. / Hor.			
Horiz	ontal								•					
Level(dBuV/m)														
80														
70														
60														
50														
40												-6dB		
	1													
30	2 3	4	5	6										
20														
10														
0	30	150	ר י	73 39	95 5	15	63	38	76	0	880	1000		
	50	150	L	15 53				00	70	U	880	1000		
					Frequer	icy(M	Hz)							
	Freq-		Reading	Antenna	Cable		Emissio		Limi	ts	Margin	Detector		
No.	Uency		Level	Factor	Loss		at 3 m L					Mode		
	(MHz)	(dB	βµV)	(dB/m)	(dB)		(dBµV/	m)	(dBµV	/m)	(dB)	PK/QP		
1	39.70	11	.52	19.83	0.87		32.22		40.0	0	-7.78	QP		
2	61.52	9.	68	13.66	1.13		24.47		40.0	0	-15.53	QP		
3	100.32	8.	52	16.38	1.30		26.20		43.5	0	-17.30	QP		
4	134.27	3.	25	19.37	1.54		24.17		43.5	0	-19.33	QP		
5	199.75	2.	48	18.87	1.97		23.31		43.5	0	-20.19	QP		
6	301.60	2.	25	19.24	2.78		24.26		46.0	0	-21.74	QP		

Remark:

1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).

2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.

3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.

4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

5. Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).

6. That the limit for signals below 1GHz is a QP limit and peak readings are below the QP limit.

7. The fundamental signal is not shown in the test data because measurements at fundamental frequency are shown separately and were ignored during the 30 – 1000 MHz scan.



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The fundamental signal

Operation Mode:	TX CH Low	Test Date: 5/11/2021
Temperature:	26.5°C	Tested by: Ted Huang
Humidity:	43% RH	Polarity: Ver. / Hor.

Horizontal

908.42MHz/9.6Kbps

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)
908.420	47.250	28.985	5.595	0.000	0.000	81.830	114.000	-32.170	Р
908.420	46.800	28.985	5.595	0.000	0.000	81.380	94.000	-12.620	Q

Vertical

908.42MHz/9.6Kbps

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)
908.420	38.520	28.985	5.595	0.000	0.000	73.100	114.000	-40.900	Р
908.420	38.260	28.985	5.595	0.000	0.000	72.840	94.000	-21.160	Q

Remark:

Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).



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Report No.: T210503N04-RP1

Operation Mode:	TX CH Low
Temperature:	26.5°C
Humidity:	43% RH

Test Date: 5/11/2021 Tested by: Ted Huang Polarity: Ver. / Hor.

Horizontal

908.40MHz/40Kbps

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)
908.40	46.73	28.98	5.60	0.00	0.00	81.31	114.00	-32.69	Р
908.40	46.50	28.98	5.60	0.00	0.00	81.08	94.00	-12.92	Q

Vertical

908.40MHz/40Kbps

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)
908.40	38.84	28.98	5.60	0.00	0.00	73.42	114.00	-40.58	Р
908.40	38.44	28.98	5.60	0.00	0.00	73.02	94.00	-20.98	Q

Remark:

Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).



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Report No.: T210503N04-RP1

Operation Mode:	TX CH Low
Temperature:	26.5°C
Humidity:	43% RH

Test Date: 5/11/2021 Tested by: Ted Huang Polarity: Ver. / Hor.

Horizontal

916.00MHz/100Kbps

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)
916.00	46.36	29.03	5.62	0.00	0.00	81.02	114.00	-32.98	Р
916.00	46.05	29.03	5.62	0.00	0.00	80.71	94.00	-13.29	Q

Vertical

916.00MHz/100Kbps

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)
916.00	38.84	29.03	5.62	0.00	0.00	73.50	114.00	-40.50	Р
916.00	38.42	29.03	5.62	0.00	0.00	73.08	94.00	-20.92	Q

Remark:

Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).



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Report No.: T210503N04-RP1

Above 1 GHz

Operation Mode:	TX CH Low				
Temperature:	26.5°C				
Humidity:	43% RH				

Test Date:5/11/2021Tested by:Ted HuangPolarity:Ver. / Hor.

Horizontal

908.42MHz/9.6Kbps

	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)
	1816.84	70.59	29.13	3.48	44.31	0.56	59.47	74.00	-14.53	Р
	1816.84	-	-	-	-	-	40.61	54.00	-13.39	А
*	2725.70	56.38	30.14	4.10	43.51	0.35	47.46	74.00	-26.54	Р
*	2725.70	-	-	-	-	-	28.60	54.00	-25.40	А
*	3633.60	56.72	30.56	4.65	42.91	0.26	49.29	74.00	-24.71	Р
*	3633.60	-	-	-	-	-	30.43	54.00	-23.57	А
*	4842.08	56.66	33.19	5.48	42.61	0.37	53.10	74.00	-20.90	Р
*	4842.08	-	-	-	-	-	34.24	54.00	-19.76	А

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m). Peak detector mode and average detector mode of the emission shown in Result column.
- 7. Average level=Peak level + Duty factor.
- 8. *=Restricted bands of operation



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Operation Mode:	TX CH Low
Temperature:	26.5°C
Humidity:	43% RH

Test Date: 5/11/2021 Tested by: Ted Huang Polarity: Ver. / Hor.

Vertical

908.42MHz/9.6Kbps

	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)
	1816.85	72.81	29.13	3.48	44.31	0.56	61.69	74.00	-12.31	Р
	1816.85	-	-	-	-	-	42.83	54.00	-11.17	А
*	2725.29	55.92	30.14	4.10	43.51	0.35	47.00	74.00	-27.00	Р
*	2725.29	-	-	-	-	-	28.13	54.00	-25.87	А
*	3634.34	56.93	30.56	4.66	42.91	0.26	49.50	74.00	-24.50	Р
*	3634.34	-	-	-	-	-	30.64	54.00	-23.36	А
*	4541.65	56.48	32.23	5.26	42.64	0.30	51.64	74.00	-22.36	Р
*	4541.65	-	-	-	-	-	32.77	54.00	-21.23	А

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.

- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m). Peak detector mode and average detector mode of the emission shown in Result column.
- 7. Average level=Peak level + Duty factor.
- 8. *=Restricted bands of operation



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Test Date: 5/11/2021

Tested by: Ted Huang Polarity: Ver. / Hor.

Operation Mode:	TX CH Low	1
Temperature:	26.5°C	
Humidity:	43% RH	

Horizontal

908.40MHz/40Kbps

	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)
	1816.72	71.18	29.13	3.48	44.31	0.56	60.06	74.00	-13.94	Р
	1816.72	-	-	-	-	-	41.19	54.00	-12.81	А
*	2725.06	56.66	30.14	4.10	43.51	0.35	47.73	74.00	-26.27	Р
*	2725.06	-	-	-	-	-	28.87	54.00	-25.13	А
*	3633.55	57.76	30.56	4.65	42.91	0.26	50.32	74.00	-23.68	Р
*	3633.55	-	-	-	-	-	31.46	54.00	-22.54	А
*	4542.06	57.12	32.23	5.26	42.64	0.30	52.28	74.00	-21.72	Р
*	4542.06	-	-	-	-	-	33.42	54.00	-20.58	А

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m). Peak detector mode and average detector mode of the emission shown in Result column.
- 7. Average level=Peak level + Duty factor.

8. *=Restricted bands of operation



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Operation Mode:	TX CH Low
Temperature:	26.5°C
Humidity:	43% RH

Test Date: 5/11/2021 Tested by: Ted Huang Polarity: Ver. / Hor.

Vertical

908.40MHz/40Kbps

	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)
	1816.34	71.71	29.13	3.48	44.31	0.56	60.58	74.00	-13.42	Р
	1816.34	-	-	-	-	-	41.72	54.00	-12.28	А
*	2725.52	56.64	30.14	4.10	43.51	0.35	47.71	74.00	-26.29	Р
*	2725.52	-	-	-	-	-	28.85	54.00	-25.15	А
*	3633.75	57.46	30.56	4.65	42.91	0.26	50.02	74.00	-23.98	Р
*	3633.75	-	-	-	-	-	31.16	54.00	-22.84	А
*	4541.78	56.71	32.23	5.26	42.64	0.30	51.87	74.00	-22.13	Р
*	4541.78	-	-	-	-	-	33.01	54.00	-20.99	А

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.

- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m). Peak detector mode and average detector mode of the emission shown in Result column.
- 7. Average level=Peak level + Duty factor.
- 8. *=Restricted bands of operation



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5/11/2021

Ted Huang Ver. / Hor.

Operation Mode:	TX CH Low	Test Date:
Temperature:	26.5°C	Tested by:
Humidity:	43% RH	Polarity:

Horizontal

916.00MHz/100Kbps

	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)
	1832.36	69.86	29.26	3.50	44.28	0.55	58.89	74.00	-15.11	Р
	1832.36	-	-	-	-	-	40.03	54.00	-13.97	А
*	2747.83	57.28	30.15	4.12	43.49	0.34	48.40	74.00	-25.60	Р
*	2747.83	-	-	-	-	-	29.53	54.00	-24.47	А
*	3664.20	58.06	30.60	4.67	42.89	0.27	50.71	74.00	-23.29	Р
*	3664.20	-	-	-	-	-	31.85	54.00	-22.15	А
*	4580.54	57.03	32.36	5.29	42.63	0.31	52.35	74.00	-21.65	Р
*	4580.54	-	-	-	-	-	33.49	54.00	-20.51	А

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m). Peak detector mode and average detector mode of the emission shown in Result column.
- 7. Average level=Peak level + Duty factor.

8. *=Restricted bands of operation



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Operation Mode:	TX CH Low
Temperature:	26.5°C
Humidity:	43% RH

Test Date:5/11/2021Tested by:Ted HuangPolarity:Ver. / Hor.

Vertical

916.00MHz/100Kbps

	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)
	1832.36	69.62	29.26	3.50	44.28	0.55	58.65	74.00	-15.35	Р
	1832.36	-	-	-	-	-	39.78	54.00	-14.22	А
*	2747.40	56.27	30.15	4.12	43.49	0.34	47.38	74.00	-26.62	Р
*	2747.40	-	-	-	-	-	28.52	54.00	-25.48	А
*	3664.14	56.99	30.60	4.67	42.89	0.27	49.63	74.00	-24.37	Р
*	3664.14	-	-	-	-	-	30.77	54.00	-23.23	А
*	4579.78	57.10	32.36	5.29	42.63	0.31	52.42	74.00	-21.58	Р
*	4579.78	-	-	-	-	-	33.56	54.00	-20.44	А

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.

- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m). Peak detector mode and average detector mode of the emission shown in Result column.
- 7. Average level=Peak level + Duty factor.
- 8. *=Restricted bands of operation



7.4 POWERLINE CONDUCTED EMISSIONS

<u>LIMIT</u>

According to §15.207(a), except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range	Limits (dBµV)				
(MHz)	Quasi-peak	Average			
0.15 to 0.50	66 to 56	56 to 46			
0.50 to 5	56	46			
5 to 30	60	50			

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

MEASUREMENT EQUIPMENT USED

Conducted Emission room #1									
Name of Equipment	Manufacturer	Manufacturer Model Serial Calibration Calibrat Number Date Due							
-	-	-	-	-	-				
-	-	-	-	-	-				
-	-	-	-	-	-				
-	-	-	-	-	-				
-	-	-	-	-	-				
Test S/W			-	L					

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST RESULTS

※ This EUT is not connected to AC Source directly. No applicability for this test.

===End of Test Report===