

# **FCC Test Report**

Application No.: DNT240894R1387-3135

Applicant: MAX SALES GROUP

Address of Applicant: 15240 East Nelson Ave. City of Industry, CCA 91744 USA

EUT Description: RGB BLUETOOTH SPEAKER WITH ALARM/CLOCK-WHITE

Model No.: NV-08677

FCC ID: 2AZSG-NV-08677

Power Supply: DC 5V From Adapter Input AC 100-240V,50/60Hz

Trade Mark: /

47 CFR Part 15, Subpart C Standards:

ANSI C63.10: 2013

Date of Receipt: 2024/5/8

**Date of Test:** 2024/5/10 to 2024/5/17

**Date of Issue:** 2024/5/20

Test Result: PASS \*

Prepared By: Wanne Jin (Testing Engineer)

Reviewed By: \_\_\_\_\_ (Project Engineer)

Approved By: Manager)

Note: If there is any objection to the results in this report, please submit a written inquiry to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp, and is issued by the company in accordance with the requirements of the "Conditions of Issuance of Test Reports" printed in the attached page. Unless otherwise stated, the results presented in this report only apply to the samples tested this time. Partial reproduction of this report is not allowed unless approved by the company in writing.



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**Report Revise Record** 

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		May.20, 2024	Valid	Original Report



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### 1 Test Summary

Test Item	Test Requirement	Test Method	Test Result	Result
Antenna Requirement	15.203/247(b)		Clause 3.1	PASS
Radiated Spurious emissions	15.247(d); 15.205/15.209	ANSI C63.10 (2013)	Clause 3.2	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 (2013)	Clause 3.3	PASS

#### Note:

1. "N/A" denotes test is not applicable in this test report.



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## 2 General Information

### 2.1 Test Location

Company:	Dongguan DN Testing Co., Ltd
Address:	No. 1, West Fourth Street, South Xinfa Road, Wusha Liwu, Chang ' an Town, Dongguan City, Guangdong P.R.China
Test engineer:	Wayne Lin



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# 2.2 General Description of EUT

Manufacturer:	IDEA PLUS INTERNATIONAL(HK)LTD.				
Address of Manufacturer:	RM-1318-19,HOLLYWOOD PLAZA MONG KOK KOWLOON HK				
Test EUT Description:	RGB BLUETOOTH SPEAKER WITH ALARM/CLOCK-WHITE				
Model No.:	NV-08677				
Additional Model(s):					
Chip Type:	R9609				
Serial number:	PR240894R1387				
Power Supply:	DC 5V From Adapter Input AC 100-240V,50/60Hz				
Output Max Wireless Charge Power;	5W				
Trade Mark:					
Hardware Version:	V1.0				
Software Version:	V1.0				
Operation Frequency:	110.5KHz-205KHz				
Modulation Technique:	FSK				
Sample Type:	☐ Portable Device, ☐ Module, ☒ Mobile Device				
Antenna Type:	Copper inducted coil				

#### Remark:

<sup>\*</sup>Since the above data and/or information is provided by the applicant relevant results or conclusions of this report are only made for these data and/or information , DNT is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.



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## 2.3 Test Environment and Mode

Operating Environment:	
Temperature:	20~25.0 °C
Humidity:	45~56 % RH
Atmospheric Pressure:	101.0~101.30 KPa
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.

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Test Item	Test Mode		
	Wireless Charging with Empty Load		
Radiated Emission	Wireless Charging with Half Load		
70 70 70	Wireless Charging with Full Load		
	Wireless Charging with Empty Load		
AC Power Line Conducted Emissions	Wireless Charging with Half Load		
	Wireless Charging with Full Load		

Note: The Full Load is worst case, will be recorded in the report.



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### 2.4 Description of Support Units

The EUT has been tested independent unit.

### 2.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

Lab A:

• FCC, USA

Designation Number: CN1348

### A2LA (Certificate No. 7050.01)

DONGGUAN DN TESTING CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 7050.01.

#### • Innovation, Science and Economic Development Canada

DONGGUAN DN TESTING CO., LTD. EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

IC#: 31026.



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# 2.6 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty	
1	20dB Emission Bandwidth	±0.0196%	
2	Carrier Frequency Separation	±1.9%	
3	Number of Hopping Channel	±1.9%	
4	Time of Occupancy	±0.028%	
5	Max Peak Conducted Output Power	±0.743 dB	
6	Band-edge Spurious Emission	±1.328 dB	
7	4 - 4 - 4	9KHz-1GHz:±0.746dB	
	Conducted RF Spurious Emission	1GHz-26GHz:±1.328dB	

No.	Item	Measurement Uncertainty	
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)	
	0, 0, 0, 0, 0,	± 4.8dB (Below 1GHz)	
	Dedicted Emission	± 4.8dB (1GHz to 6GHz)	
2	Radiated Emission	± 4.5dB (6GHz to 18GHz)	
		± 5.02dB (Above 18GHz)	



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## 2.7 Equipment List

,	Test Equipment for Conducted Emission					
Description	Description Manufacturer Model Serial Number Cal Date Due Da					
Receiver	R&S	ESCI3	101152	2023-10-24	2024-10-23	
LISN	R&S	ENV216	102874	2023-10-24	2024-10-23	
ISN	R&S	ENY81-CA6	1309.8590.03	2023-10-24	2024-10-23	

Test Ed	quipment for F	Radiated Emis	sion(30MHz	-1000MH	z)
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Receiver	R&S	ESR7	102497	2023-10-24	2024-10-23
Test Software	ETS-LINDGREN	TiLE-FULL	NA <	NA	NA
RF Cable	ETS-LINDGREN	RFC-NMS-100- NMS-350-IN	NA	2023-10-24	2024-10-23
Log periodic antenna	ETS-LINDGREN	VULB 9168	01475	2023-10-24	2024-10-23
Pre-amplifier	Schwarzbeck	BBV9743B	00423	2023-10-24	2024-10-23
Single ring magnetic field ring antenna	ETS-LINDGREN	6502	6502	2023-10-24	2024-10-23

# 2.8 Assistant equipment used for test

Code	Equipment	Manufacturer	Model No.	Equipment No.
<b>1</b> 3	iPhone	Apple	iPhone 14	NA



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### 3 Test results and Measurement Data

### 3.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

15.203 requirement:

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. 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.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.+

The antennas used for this product is Coil antenna.



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# 3.2 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section	n 15.209 and 15.20	05		$\sim$
Test Method:	ANSI C63.10: 2013 Sec	tion 11.12			
Test Site:	Measurement Distance:	3m or 10m (Semi-	Anechoic Ch	amber)	
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.090MHz-0.150MHz	Quasi-peak	300Hz	300Hz	Quasi-peak
	0.150MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
		Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
	Above 1GHz			(DC≥0.98) ≥1/T	
	, ,			(DC<0.98)	,
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measuremen distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	_	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	<	<	30
	1.705MHz-30MHz	30		4	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Remark: 15.35(b),Unless emissions is 20dB above applicable to the equipm emission level radiated by	e the maximum per ent under test. This	mitted avera	ge emission lin	nit

### Restricted frequency band

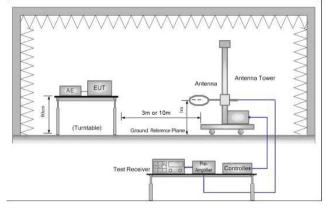
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
<sup>1</sup> 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2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



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#### Test Setup:



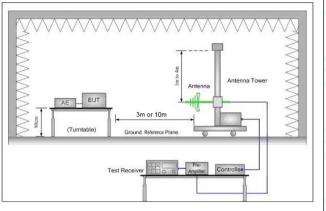


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

#### Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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.
- h. Test the EUT in the lowest channel, the middle channel ,the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- Repeat above procedures until all frequencies measured was complete.

### **Test Configuration:**

Measurements 9K-150KHz

- RBW = 300Hz
- VBW = 300Hz
- Detector = Peak
- Trace mode = max hold

Measurements 150K-30MHz

- RBW = 10KHz
- VBW = 30KHz
- Detector = Peak
- Trace mode = max hold

Dongguan DN Testing Co., Ltd.



Report No.:DNT240894R1387-3135 Date: May 20, 2024 Page: 14/21 Measurements 30 - 1000MHz RBW = 120 kHz VBW = 300 kHz Detector = Peak Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz VBW ≥ 3 MHz Detector = Peak · Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. **Exploratory Test Mode:** Transmitting with all kind of modulations, data rates. Charge+Transmitting mode. Final Test Mode: Pretest the EUT at Transmitting mode. Through Pre-scan, find the worst case of All modulation type. Instruments Used: Refer to section 2.9 for details Test Results: Pass

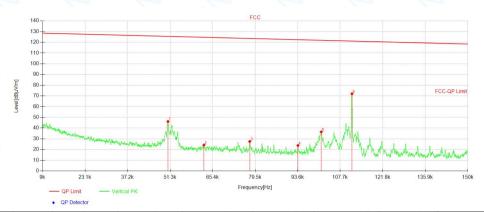


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### Test data

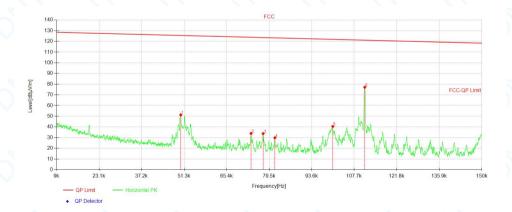
### For 9K-150KHz

Vertical:



NO.	Freq. [MHz]	Reading Level [dBµV]	Correct Factor [dB/m]	Result Level [dBµV/m]	Limit [dBµV/ m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	0.0506	87.08	-40.95	46.13	125.52	79.39	100	16	QP
2	0.0625	65.31	-41.23	24.08	124.66	100.58	100	78	QP
3	0.0777	68.88	-41.41	27.47	123.56	96.09	100	46	QP
4	0.0937	65.12	-41.39	23.73	122.40	98.67	100	51	QP
5	0.1014	77.90	-41.50	36.40	121.85	85.45	100	16	QP
6	0.1116	113.52	-41.57	71.95	121.12	49.17	100	46	QP

### Horizontal:



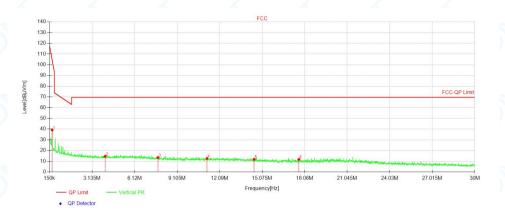
NO.	Freq. [MHz]	Reading Level [dBµV]	Correct Factor [dB/m]	Result Level [dBµV/m]	Limit [dBµV/ m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	0.0502	92.24	-40.94	51.30	125.55	74.25	100	75	QP
2	0.0735	75.29	-41.38	33.91	123.86	89.95	100	156	QP
3	0.0775	75.18	-41.41	33.77	123.58	89.81	100	174	QP
4	0.0814	71.27	-41.41	29.86	123.29	93.43	100	164	QP
5	0.1006	81.93	-41.48	40.45	121.91	81.46	100	63	QP
6	0.1112	118.72	-41.57	77.15	121.14	43.99	100	152	QP



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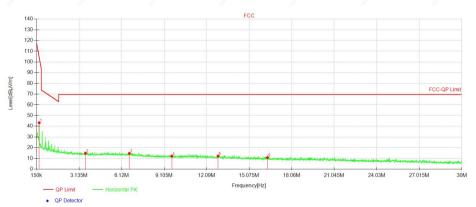
### For 150KHz-30MHz

### Vertical:



NO.	Freq. [MHz]	Reading Level [dBµV]	Correct Factor [dB/m]	Result Level [dBµV/m]	Limit [dBµV/ m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	0.3351	80.87	-41.74	39.13	104.98	65.85	100	32	QP
2	4.0552	56.48	-41.90	14.58	69.54	54.96	100	68	QP
3	7.7573	55.33	-41.93	13.40	69.54	56.14	100	251	QP
4	11.2027	54.67	-42.10	12.57	69.54	56.97	100	264	QP
5	14.5048	54.17	-42.39	11.78	69.54	57.76	100	98	QP
6	17.6516	54.44	-42.74	11.70	69.54	57.84	100	185	QP

### Horizontal:



	NO.	Freq. [MHz]	Reading Level [dBµV]	Correct Factor [dB/m]	Result Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
	1	0.3351	84.98	-41.74	43.24	104.98	61.74	100	127	QP
	2	3.5834	56.71	-41.89	14.82	69.54	54.72	100	95	QP
	3	6.6646	56.63	-41.91	14.72	69.54	54.82	100	81	QP
	4	9.6442	54.12	-41.99	12.13	69.54	57.41	100	245	QP
	5	12.8925	54.49	-42.27	12.22	69.54	57.32	100	265	QP
4	6	16.3558	53.37	-42.58	10.79	69.54	58.75	100	360	QP

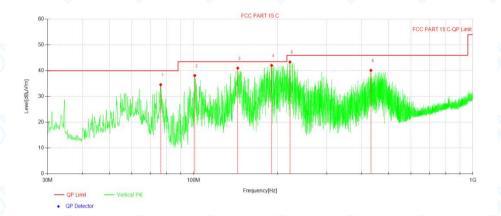


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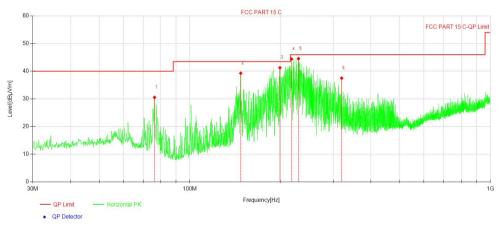
### For 30-1000MHz

Vertical:



	NO.	Freq. [MHz]	Reading Level [dBµV]	Correct Factor [dB/m]	Result Level [dBµV/m]	Limit [dBµV/ m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	1	76.27	46.12	-14.45	31.67	40.00	8.33	100	360	QP
	2	101.01	50.62	-14.56	36.06	43.50	7.44	200	0	QP
	3	143.98	53.23	-10.29	42.94	43.50	0.56	100	39	QP
	4	187.73	57.29	-15.38	41.91	43.50	1.59	100	239.5	QP
	5	227.31	54.40	-13.46	40.94	46.00	5.06	100	51	QP
	6	431.62	43.43	-6.01	37.42	46.00	8.58	200	138	QP

### Horizontal:



NO.	Freq. [MHz]	Reading Level [dBµV]	Correct Factor [dB/m]	Result Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	76.27	42.10	-11.54	30.56	40.00	9.44	100	13	QP
2	147.67	47.29	-8.00	39.29	43.50	4.21	100	138	QP
3	199.37	52.35	-11.08	41.27	43.50	2.23	100	30	QP
4	218.10	55.49	-11.07	44.42	46.00	1.58	200	358	QP
5	229.74	54.97	-10.41	44.56	46.00	1.44	100	0	QP
6	320.05	43.80	-6.29	37.51	46.00	8.49	100	265	QP



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#### Note:

- 1. The Measurement (Result Level) is calculated by Reading Level adding the Correct Factor(maybe including Ant.Factor and the Cable Factor etc.), The basic equation is as follows:
  - Result Level= Reading Level + Correct Factor(including Ant.Factor, Cable Factor etc.)
- 2. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
- 3. The amplitude of 18GHz to 25GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be report.

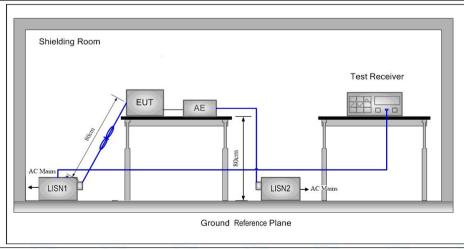


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### 3.3 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section	15.207	
Test Method:	ANSI C63.10: 2013	, ,	, ,
Test Frequency Range:	150kHz to 30MHz		
Limit:		Limit (d	IBuV)
	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 loga	rithm of the frequency.	<i>X X</i>
Test Procedure:	room.  2) The EUT was connect Impedance Stabilization Nimpedance. The power case a second LISN 2, which we plane in the same way as multiple socket outlet stripsingle LISN provided the 3) The tabletop EUT was ground reference plane. Applaced on the horizontal of the EUT shall be 0.4 me vertical ground reference reference plane. The LISI unit under test and bonder mounted on top of the ground the EUT and associated of the EUT and associated of the maximum or the stability of the EUT and associated of the control of the maximum or the stability of the EUT and associated of the control of the maximum or the stability of the stabil	rd with a vertical ground reference the vertical ground reference was bonded to the how 1 was placed 0.8 m from the dot of a ground reference plane. This does not not be under the LISN 1 and the EUT equipment was at least 0.8 m um emission, the relative pointerface cables must be characterical products of the LISN 1 and the EUT equipment was at least 0.8 m um emission, the relative pointerface cables must be characterical to the product of the latterical products of the latterical products of the latterical products of the latterical ground reference to the latterical ground reference plant reference	ugh a LISN 1 (Line 0Ω/50μH + 5Ω linear EUT were connected to ference g measured. A ple power cables to a exceeded. It table 0.8m above the gement, the EUT was become plane. The rear ference plane. The prizontal ground the boundary of the ne for LISNs distance was Γ. All other units of the positions of

Test Setup:



**Exploratory Test Mode:** 

Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.

Charge + Transmitting mode.

Dongguan DN Testing Co., Ltd.

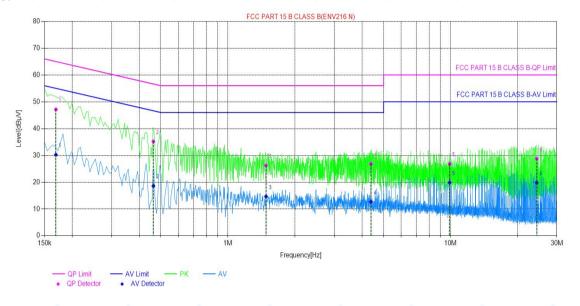
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Final Test Mode:	Through Pre-scan, find the the worst case.
Instruments Used:	Refer to section 2.9 for details
Test Results:	PASS

#### Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

#### Neutral Line:



N	О.	Freq. [MHz]	Correct Factor [dB]	QP Reading Level [dΒμV]	QP Result Level [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading Level [dBµV]	AV Result Level [dBµV]	AV Limit [dΒμV]	AV Margin [dB]
	1	0.168	9.82	37.32	47.14	65.02	17.88	20.4	30.22	55.02	24.80
2	2	0.462	9.77	25.44	35.21	56.65	21.44	8.83	18.60	46.65	28.05
(	3	1.483	9.73	16.52	26.25	56.00	29.75	4.96	14.69	46.00	31.31
4	4	4.384	9.97	16.85	26.82	56.00	29.18	2.7	12.67	46.00	33.33
į	5	9.899	9.81	17.02	26.83	60.00	33.17	10.04	19.85	50.00	30.15
(	6	24.363	10.14	18.61	28.75	60.00	31.25	9.7	19.84	50.00	30.16

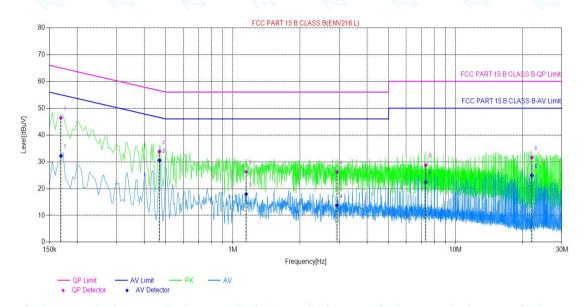


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NO.	Freq. [MHz]	Correct Factor [dB]	QP Reading Level [dΒμV]	QP Result Level [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading Level [dBµV]	AV Result Level [dBµV]	AV Limit [dΒμV]	AV Margin [dB]
1	0.1779	9.91	30.86	40.77	64.58	23.81	16.34	26.25	54.58	28.33
2	0.5884	9.83	23.92	33.75	56.00	22.25	18.56	28.39	46.00	17.61
3	1.7573	9.73	19.79	29.52	56.00	26.48	12.93	22.66	46.00	23.34
4	2.9366	9.74	22.91	32.65	56.00	23.35	17.23	26.97	46.00	19.03
5	9.0486	9.87	16.94	26.81	60.00	33.19	0.7	10.57	50.00	39.43
6	22.119	10.16	12.09	22.25	60.00	37.75	-1.28	8.88	50.00	41.12

### Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. The Measurement (Result Level) is calculated by Reading Level adding the Correct Factor(maybe including LISN Factor and the Cable Factor etc.), The basic equation is as follows:

Result Level= Reading Level + Correct Factor(including LISN Factor, Cable Factor

---END REPORT---