



# FCC Test Report

<b>Application No.:</b>	DNT2501090144R0283-00672
<b>Applicant:</b>	Shenzhen Manyi Technology Co.,Ltd.
<b>Address of Applicant:</b>	444, Section 1, Building 25, Keyuan West, 5 Kezhi West Road, Science and Technology Park Community, Yuehai Sub-district, Nanshan District, Shenzhen
<b>EUT Description:</b>	Monitor Stand
<b>Model No.:</b>	ZGJ221,ZGJ222, ZGJ121, ZGJ122, ZGB061, ZGB062, ZGB321, ZGB322, ZG6031, ZG6032, ZGC441, ZGC442
<b>FCC ID:</b>	2BNG6-ZGJ221
<b>Power Supply:</b>	DC 12V/2A From Adapter Input AC 100-240V,50/60Hz
<b>Trade Mark:</b>	meatanty
<b>Standards:</b>	47 CFR Part 15, Subpart C ANSI C63.10: 2013
<b>Date of Receipt:</b>	2025/01/12
<b>Date of Test:</b>	2025/01/13 to 2025/02/02
<b>Date of Issue:</b>	2025/02/06
<b>Test Result:</b>	<b>PASS *</b>

**Prepared By:** Wayne Lin (Testing Engineer)



**Reviewed By:** Pengils Chen (Project Engineer)

**Approved By:** Wayne Chen (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.

**Dongguan DN Testing Co., Ltd.**

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**Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Feb.06, 2025	Valid	Original Report



## 1 Test Summary

Test Item	Test Requirement	Test Method	Test Result	Result
Antenna Requirement	15.203	--	Clause 3.1	PASS
Radiated Spurious emissions	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 Xingfa Road, Wusha Liwu, Chang 'an Town, Dongguan City, Guangdong P.R.China
Test engineer:	Wayne Lin



## 2.2 General Description of EUT

Manufacturer:	Shenzhen Manyi Technology Co.,Ltd.
Address of Manufacturer:	444, Section 1, Building 25, Keyuan West, 5 Kezhi West Road, Science and Technology Park Community, Yuehai Sub-district, Nanshan District, Shenzhen
Test EUT Description:	Monitor Stand
Model No.:	ZGJ221
Additional Model(s):	ZGJ222, ZGJ121, ZGJ122, ZGB061, ZGB062, ZGB321, ZGB322, ZG6031, ZG6032, ZGC441, ZGC442
Chip Type:	IP6808
Serial number:	PR2501090144R0283
Power Supply:	DC 12V/2A From Adapter Input AC 100-240V,50/60Hz
Output Max Wireless Charge Power:	15W
Trade Mark:	meatanty
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	110.5KHz-205KHz
Modulation Technique:	FSK
Sample Type:	<input type="checkbox"/> Portable Device, <input type="checkbox"/> Module, <input checked="" type="checkbox"/> Mobile Device
Antenna Type:	Copper inducted coil

Remark:

\*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.

\*All models are just color differences, motherboard, PCB circuit board, chip, electronic components, appearance all the same.



## 2.3 Test Environment and Mode

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

Test Item	Test Mode
Radiated Emission	Wireless Charging
AC Power Line Conducted Emissions	Wireless Charging

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



## 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. CAB identifier is CN0149.

IC#: 30755.



## 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	Conducted RF Spurious Emission	9KHz-1GHz:±0.746dB 1GHz-26GHz:±1.328dB

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



## 2.7 Equipment List

Test Equipment for Conducted Emission					
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Receiver	R&S	ESCI3	101152	2024-10-23	2025-10-22
LISN	R&S	ENV216	102874	2024-10-23	2025-10-22
ISN	R&S	ENY81-CA6	1309.8590.03	2024-10-23	2025-10-22

Test Equipment for Radiated Emission(30MHz-1000MHz)					
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Receiver	R&S	ESR7	102497	2024-10-23	2025-10-22
Test Software	ETS-LINDGREN	TiLE-FULL	NA	NA	NA
RF Cable	ETS-LINDGREN	RFC-NMS-100-NMS-350-IN	NA	2024-10-23	2025-10-22
Log periodic antenna	ETS-LINDGREN	VULB 9168	01475	2022-11-28	2025-11-27
Pre-amplifier	Schwarzbeck	BBV9743B	00423	2024-10-23	2025-10-22
Single ring magnetic field ring antenna	ETS-LINDGREN	6502	6502	2024-10-23	2025-10-22

## 2.8 Assistant equipment used for test

Code	Equipment	Manufacturer	Model No.	Equipment No.
1	iPhone	Apple	MQ8A3CH/A	/
2	Adapter	Guo Ao Tong	GA-1202000C	/



### 3 Test results and Measurement Data

#### 3.1 Antenna Requirement

<b>Standard requirement:</b>	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.	

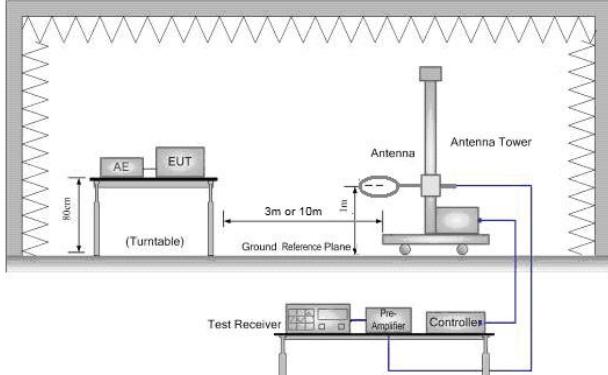
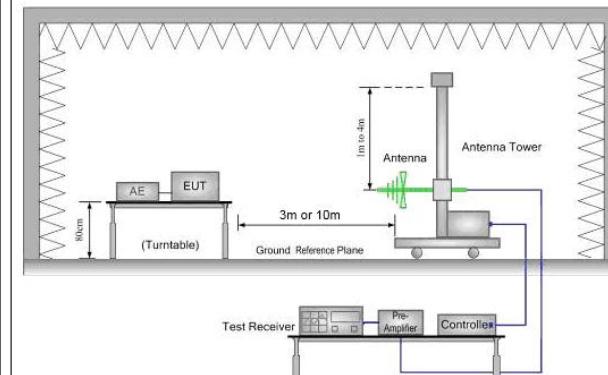


### 3.2 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10: 2013 Section 11.12				
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)				
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
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz (DC $\geq$ 0.98) $\geq$ 1/T (DC<0.98)	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	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 otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.				

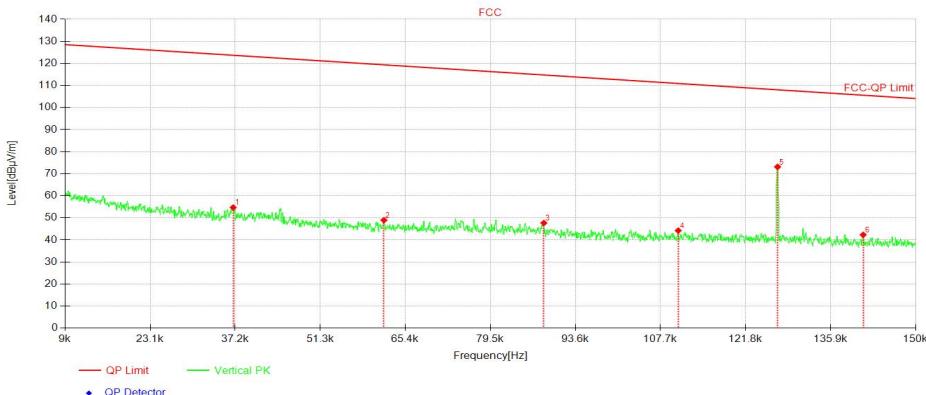
#### Restricted frequency band

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> )

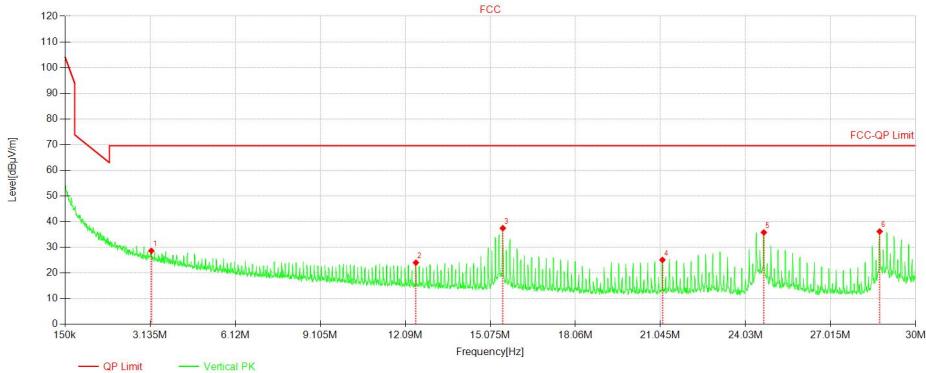
Test Setup:	
	
	
Test Procedure:	<ol style="list-style-type: none"> <li>For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>For 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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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.</li> <li>Test the EUT in the lowest channel, the middle channel ,the Highest channel.</li> <li>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.</li> <li>Repeat above procedures until all frequencies measured was complete.</li> </ol>
Test Configuration:	<p>Measurements 9K-150KHz</p> <ul style="list-style-type: none"> <li>RBW = 300Hz</li> <li>VBW = 300Hz</li> <li>Detector = Peak</li> <li>Trace mode = max hold</li> </ul> <p>Measurements 150K-30MHz</p> <ul style="list-style-type: none"> <li>RBW = 10KHz</li> <li>VBW = 30KHz</li> <li>Detector = Peak</li> <li>Trace mode = max hold</li> </ul>



	<p>Measurements 30 - 1000MHz</p> <ul style="list-style-type: none"><li>• RBW = 120 kHz</li><li>• VBW = 300 kHz</li><li>• Detector = Peak</li><li>• Trace mode = max hold</li></ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"><li>• RBW = 1 MHz</li><li>• VBW <math>\geq 3</math> MHz</li><li>• Detector = Peak</li><li>• Sweep time = auto</li><li>• Trace mode = max hold</li></ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"><li>• RBW = 1 MHz</li><li>• VBW = 10 Hz, when duty cycle is no less than 98 percent.</li><li>• VBW <math>\geq 1/T</math>, 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.</li></ul>
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

**Test data****For 9K-150KHz**

NO.	Freq. [MHz]	Reading Level [dB $\mu$ V]	Correct Factor [dB/m]	Result Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	0.036	42.54	12.16	54.70	123.69	68.99	100	97	QP
2	0.061	37.68	11.28	48.96	119.36	70.40	100	66	QP
3	0.088	36.65	11.03	47.68	114.76	67.08	100	107	QP
4	0.110	33.32	10.91	44.23	110.90	66.67	100	159	QP
5	0.127	62.27	10.84	73.11	108.05	34.94	100	92	QP
6	0.141	31.50	10.83	42.33	105.59	63.26	100	117	QP

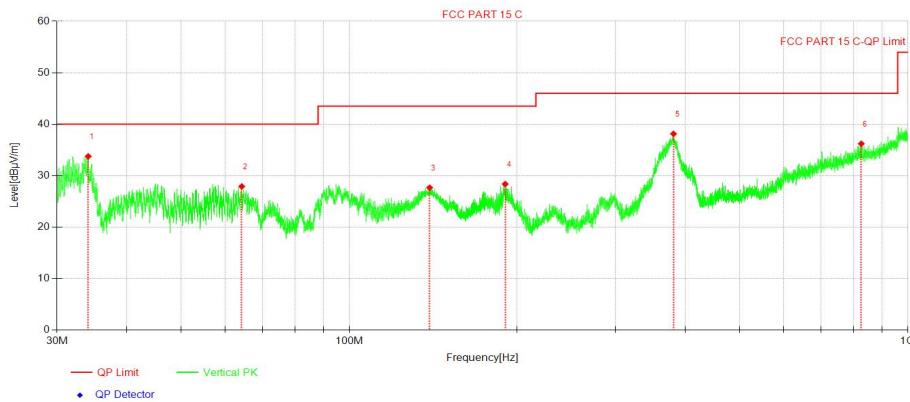
**For 150KHz-30MHz**

NO.	Freq. [MHz]	Reading Level [dB $\mu$ V]	Correct Factor [dB/m]	Result Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	3.17	18.05	10.60	28.65	69.54	40.89	100	88	QP
2	12.46	13.75	10.28	24.03	69.54	45.51	100	43	QP
3	15.51	27.43	10.02	37.45	69.54	32.09	100	280	QP
4	21.11	15.87	9.24	25.11	69.54	44.43	100	2	QP
5	24.67	27.21	8.60	35.81	69.54	33.73	100	190	QP
6	28.74	28.46	7.72	36.18	69.54	33.36	100	288	QP



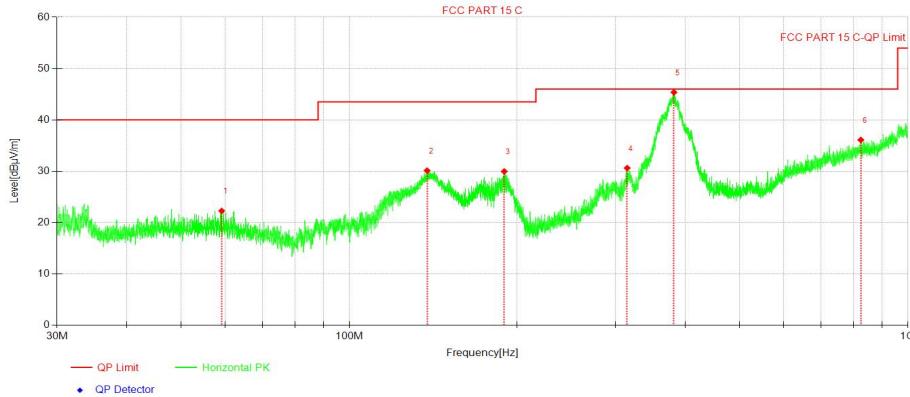
## For 30-1000MHz

Vertical:



NO.	Freq. [MHz]	Reading Level [dB $\mu$ V]	Correct Factor [dB/m]	Result Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	34.10	43.15	-9.39	33.76	40.00	6.24	100	82	PK
2	64.23	37.16	-9.24	27.92	40.00	12.08	100	360	PK
3	139.36	36.23	-8.55	27.68	43.50	15.82	100	287	PK
4	190.33	38.93	-10.55	28.38	43.50	15.12	100	262	PK
5	380.98	42.92	-4.78	38.14	46.00	7.86	100	267	PK
6	826.33	31.35	4.87	36.22	46.00	9.78	100	143	PK

Horizontal :



NO.	Freq. [MHz]	Reading Level [dB $\mu$ V]	Correct Factor [dB/m]	Result Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	59.12	30.96	-8.67	22.29	40.00	17.71	100	328	PK
2	137.90	38.81	-8.68	30.13	43.50	13.37	100	320	PK
3	189.60	40.47	-10.49	29.98	43.50	13.52	100	312	PK
4	314.70	37.13	-6.49	30.64	46.00	15.36	100	296	PK
5	381.64	50.13	-4.76	45.37	46.00	0.63	100	301	PK
6	824.59	31.25	4.86	36.11	46.00	9.89	100	307	PK



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.

### 3.3 AC Power Line Conducted Emissions



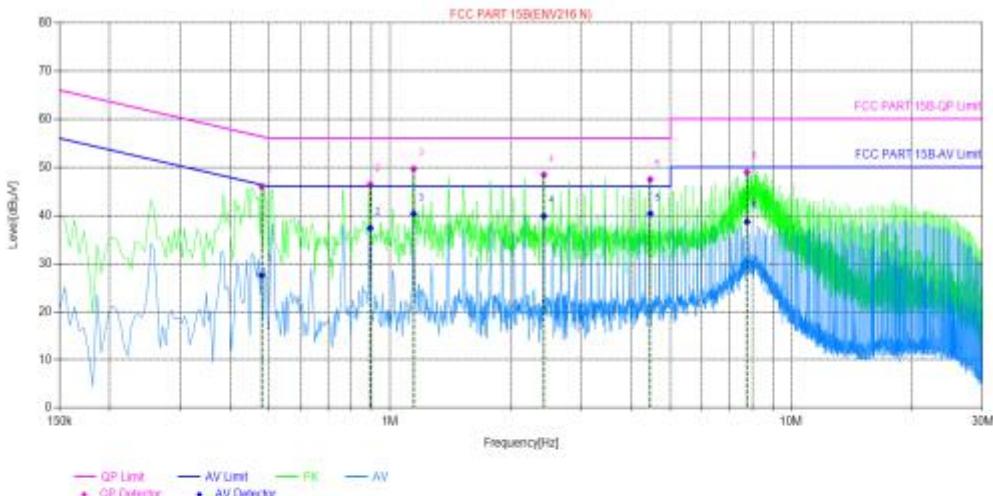
Final Test Mode:	Through Pre-scan, find the the worst case.
Instruments Used:	Refer to section 2.9 for details
Test Results:	PASS

### 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.

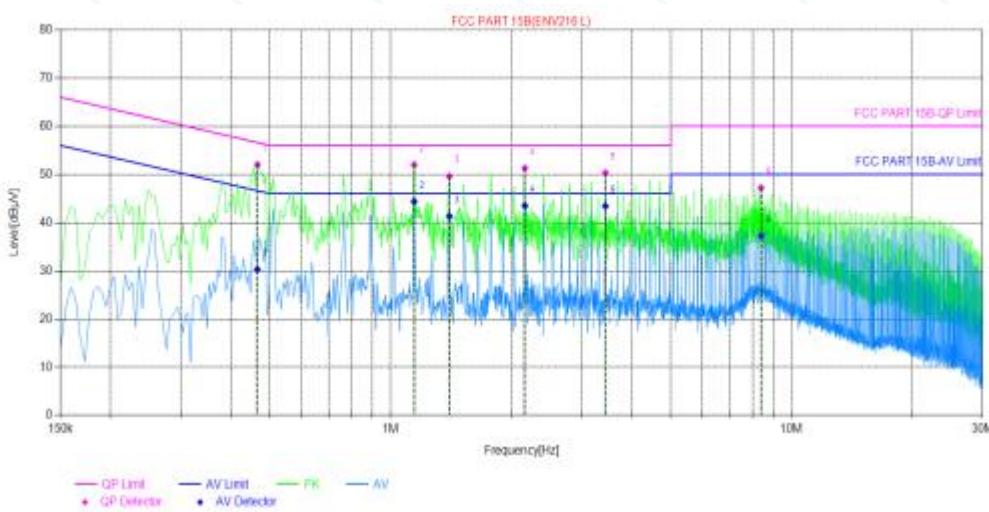
Neutral Line:



Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBuV]	QP Limit [dBuV]	QP Margin [dB]	AV Value [dBuV]	AV Limit [dBuV]	AV Margin [dB]	Verdict
1	0.4785	9.74	46.00	56.37	10.37	27.52	46.37	18.85	PASS
2	0.8925	9.75	46.36	56.00	9.64	37.35	46.00	8.65	PASS
3	1.1445	9.70	49.67	56.00	6.33	40.31	46.00	5.69	PASS
4	2.418	9.81	48.43	56.00	7.57	39.87	46.00	6.13	PASS
5	4.452	9.97	47.47	56.00	8.53	40.37	46.00	5.63	PASS
6	7.7595	9.94	48.96	60.00	11.04	38.65	50.00	11.35	PASS



Live Line:



### Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBuV]	QP Limit [dBuV]	QP Margin [dB]	AV Value [dBuV]	AV Limit [dBuV]	AV Margin [dB]	Verdict
1	0.465	9.84	52.02	56.00	4.58	30.27	46.60	16.33	PASS
2	1.1445	9.72	52.00	56.00	4.00	44.35	46.00	1.65	PASS
3	1.401	9.73	49.59	56.00	6.41	41.32	46.00	4.68	PASS
4	2.1615	9.73	51.28	56.00	4.72	43.50	46.00	2.50	PASS
5	3.435	9.75	50.29	56.00	5.71	43.42	46.00	2.58	PASS
6	8.394	9.87	47.22	60.00	12.78	37.26	50.00	12.74	PASS

### 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---