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Order No: 10140639

Report No: 13-10140639-FCC

Date: December 30, 2013

Model No: AMM215MPWTD

# **Electromagnetic Compatibility Test Report**

**For**

## **LCD Color Medical Monitor**

**ADVAN INT'L CORP**

**47817 Fremont Blvd., Fremont, CA 94538 U.S.A.**

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### **Summary of Test Results:**

The following tests were performed on a sample submitted for evaluation of compliance 47 CFR Part 15.107 (a) / 47 CFR Part 15.109 (a) Class B.				
Test #	Test Name Test Requirement/Specification	Compliant	Not Compliant	See Remark
1	AC Power line Conducted Emission Test	X	-	-
2	Radiated Emission Test	X	-	-
<b>*Note:</b> No modifications were made to the EUT in order to achieve and maintain compliance to the standards described in this report.				

### **Conclusion:**

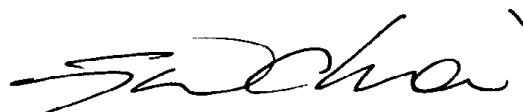
The tests listed in the Summary of Testing section of this report have been performed as a witness testing and the results recorded by UL Korea Ltd. in accordance with the procedures stated in each test requirement and specification. The test list was determined by the Applicant as being applicable to the Equipment Under Test. As a result, the subject product has been verified to comply or not comply as noted in the Summary of Testing with each test specification. The test results relate only to the items tested.

The equipment under test has

- ☐ Met the technical requirements  
☒ Met the technical requirements under the limited condition  
☐ Not met the technical requirements



Witnessed by  
Changmin, Kim, WiSE Engineer  
UL Verification Services – 3014ASEO  
UL Korea Ltd.  
December 30, 2013



Reviewed by  
Jeawoon, Choi, WiSE Operations Manager  
UL Verification Services- 3014ASEO  
UL Korea Ltd.  
December 30, 2013

Order Number: 10140639  
Model Number: AMM215MPWTD  
Client Name: ADVAN INT'L CORP.

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### **Test Report Details**

Test report No: 13-10140639-FCC  
Witnessed By: UL Korea Ltd.  
33<sup>rd</sup> FL. GFC Bldg. 737 Yeoksam-dong, Kangnam-ku, Seoul, 135-984, Korea  
Test Site: EMC Compliance Ltd.  
480-5 Sin-dong, Yeongtong-gu, Suwon-city, Gyeonggi-do, 443-390, Korea  
Applicant: ADVAN INT'L CORP  
47817 Fremont Blvd., Fremont, CA 94538 U.S.A.  
Manufacturer: ADVAN INT'L CORP  
47817 Fremont Blvd., Fremont, CA 94538 U.S.A.  
Factory: D&T Inc.  
(JANG-DONG, (DAEDEOK VALLEY))  
26-121 GAJEONGBUK-RO, YUSEONG-GU, DAEJEON 305-343, KOREA  
Applicant Contact: Jun Ho Jang  
Phone: 82-70-7842-8018  
E-mail: andyjang@advancorp.com  
Product Type: LCD Color Medical Monitor  
Model Number: AMM215MPWTD  
Multi-listing model number: N/A  
The manufacturer has declared to all the multiple model names into the basic model without any further evaluation by UL.  
FCC ID: QVXAMM215MPWTD  
Trademark: N/A  
Product standards: FCC Part 15 Subpart B  
Test Procedure: ANSI C63.4 : 2003  
Sample Serial Number: N/A  
Sample Receive Date: December 03, 2013  
Testing Start Date: December 06, 2013  
Date Testing Complete: December 26, 2013

**Overall Results: Pass**

UL Korea Ltd. reports apply only to the specific samples tested under stated test conditions. All samples tested were in good operating condition throughout the entire test program. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. UL Korea Ltd. shall have no liability for any deductions, inferences or generalizations drawn by the client or others from UL Korea Ltd. issued reports.

## REPORT DIRECTORY

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Model Number: AMM215MPWTD  
Client Name: ADVAN INT'L CORP.

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## 1. GENERAL PRODUCT DESCRIPTION

### 1.1 Report Revision History:

Revision Date	Description	Remarks
-	Original	-

### 1.2 Equipment Description:

Description:
Auto - Scanning with digital control LCD color medical monitor

### 1.3 Details of Equipment Under Test (EUT):

Equipment Configuration:				
No.	Product Type	Manufacturer	Model	Comments
1	LCD Color Medical Monitor	ADVAN Int'l Corp.	AMM215MPWTD	-
2	AC/DC Adapter	Bridgepower	JMW1100KB1800F02	1 EA
3	DC Extension Cable		CB-47D2001P50MF	5 ft
4	DC Extension Cable		CB-47D2004P57MF	15 ft
5	DC Extension Cable		CB-47D2022P86MF	75 ft
6	DVI-D cable	-	-	1 EA
7	HD15 VGA cable	-	-	1 EA
8	Hospital-grade AC power cord	-	-	1 EA

#### 1.4 Technical Data:

<b>Model</b>	AMM215MPWTD
<b>Client</b>	
Processor	TERA2321 PCoIP Client Processor
Memory	512MB DDR3
<b>LCD Panel</b>	
Description	a-Si TFT Active Matrix, LED Backlight
Active Screen Size	21.46 inches (545.22mm) diagonal
Resolution	1920 (H) x 1080 (V) @60Hz
Pixel Pitch	0.2475 mm
Display Color	16.7M colors
Color Tone	Up to 256 color tone
Response Time	<25ms (Typ.)
Face Finishing	Protective Filter with Anti-Reflected Hard Coated
Viewing Angle	R/L 178°, U/D 178° (CR > 10)
Brightness**	250 cd/m2 (Typ.)
Contrast Ratio	1000:1 (Typ.)
<b>Input</b>	
VGA	15pin D-Sub x 1 R/G/B : 0.7 ± 0.1 Vp-p H/V Sync : TTL Level (V high ≥2.3V, V low ≤0.5V)
DVI1	DVI-I x 1
DVI2 / Optional Input	DVI-I x 1
Remote Input	9-pin D-Sub (RS-232C) x 1
Audio In	Stereo Phone Jack 20~20,000hz Audio signal, Max 1 Vrms stereo signal
MIC In	Stereo Phone Jack 20~20,000hz Audio signal
USB In	A-type USB Receptacle. x 4 USB 2.0 Interface, support up to 500mA per USB port.
Ethernet	RJ45 x 1
Scanning Frequency	Horizontal : 31.47~80.0Khz Vertical : 50~85Hz
<b>Output</b>	
DVI	DVI-I x 1
Headphone	Stereo Phone Jack 60mW at 32 ohm head phone load
Speaker	Dynamic Speaker x 2 1.3W (Max)/8ohm
<b>General</b>	
Power Adaptor	AC 100 ~ 240V 50-60Hz, 2.0A DC 13V, 6.92A
Power Consumption	60W
Dimension	523 (W) x 321 (H) x 110 (D) mm
Weight	Monitor: 5.42Kg (Approximately) AC adaptor: 720g
VESA Mounting	100mm x 100mm
<b>Operating/Storage Environment</b>	
Operating Temperature	32° ~ 95°F (0° - 35°C)
Operating Humidity	20% ~ 80%, non-condensing
Storage Temperature	-4° ~ 140°F (-20° - 60°C)
Storage Humidity	10 ~ 85%RH (without condensation)
<b>Compliance &amp; Certification</b>	
Safety	UL (UL60601-1), cUL (CAN/CSA-C22.2 No.6011-M90), CE (EN60601-1), AS/NZS 3200-1-0, CCC (GB4943-2001), CB-ITE (IEC60950-1), IP23 Compliance
EMC	FCC (Part 15 Class B), CE (EN60601-1-2), AS/NZS 3200-1-2, VCCI (Class B), CCC (GB9254, GB17625.1)
<b>Optional Module</b>	
DC Extension Cable	5ft, 15ft, 75ft length
Base Stand	Adjustable high, swivel and tilt base stand

\* All contents are subject to change without notice.

### 1.5 EUT Internal Operating Frequency

Frequency (MHz)	Description	Frequency (MHz)	Description
192.38 MHz	Memory Clock	27.000 MHz	System Clock
142 MHz	Display Clock	28.322 MHz	System Clock
25 MHz	LAN chip Clock		

### 1.6 Technical descriptions and documents:

No.	Document Title and Description
1	AMM215MPWTD User manual
<b>*Note:</b> The manufacturer provided the following document.	

### 1.7 Detail information of Multi-listing model:

-	Model	Description	Comment
1	-	-	-
<b>*Note:</b> The manufacturer has declared to all the multiple model names into the basic model without any further evaluation by UL.			

Order Number: 10140639  
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## 1.8 Equipment Marking Plate of Product:

Product Label	
<b>ADVAN</b>	
产品名称 / Product Name : 液晶彩色显示器 / LCD Color Display	
产品商标 / Trademark : ADVAN	
产品型号 / Model No. AMM215MPWTD	
Part Name :	
Rating : DC 13V $\equiv$ 6.92A FCC ID : QVXAMM215MPWTD	
<div>This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.</div>	
<div>AC/DC Adapter 交流/直流 适配器 Adaptateur AC/DC Model / 型号: JMW1100KB1300F02 (Bridgepower)</div>	
<div>CAUTION - ELECTRIC SHOCK 注意触电危险 "To avoid electrical shock, do not open the cabinet, Refer servicing to qualified personnel only." "请不要打开机箱, 以防触电, 维修需通过专业人员进行."</div>	
<div>ATTENTION-CHOC ÉLECTRIQUE "Pour éviter tout choc électrique, ne pas ouvrir l'armoire. Confiez l'entretien au personnel qualifié uniquement."</div>	
<div>UL Korea, Ltd. 33<sup>rd</sup> FL, Gangnam Finance Center, 737 Yeoksam-dong, Gangnam-gu, Seoul 135-984 Korea Tel: +82.2.2009.9000, Fax: +82.2.2009.9405</div>	
<div>Only those products bearing the UL Mark should be considered as being covered by UL.</div>	



## 2. TEST CONDITION

### 2.1 Equipment Used During Test:

Use*	Product Type	Manufacturer	Model	Certify No.	Comments
EUT	LCD Color Medical Monitor	ADVAN Int'l Corp.	AMM215MPWTD	-	-
EUT	AC/DC Adapter	Bridge power	JMW1100KB1300F02	-	-
EUT	DC Extension Cable	-	CB-47D2001P50MF	-	5 ft
EUT	DC Extension Cable	-	CB-47D2004P57MF	-	15 ft
EUT	DC Extension Cable	-	CB-47D2022P86MF	-	75 ft
AE	PC 1	SAMSUNG	DM-V600	FCC DoC	-
AE	PC 2	SAMSUNG	DB-A150	FCC DoC	-
AE	Monitor	HP	HSTND-2681-W	FCC DoC	-
AE	USB Mouse #1	Microsoft	1088	FCC DoC	-
AE	USB Mouse #2	Microsoft	1088	FCC DoC	-
AE	USB Mouse #3	Microsoft	1088	FCC DoC	-
AE	USB Mouse #4	Microsoft	1088	FCC DoC	-
AE	USB Keyboard #1	SAMSUNG	SKG-3000UB	FCC DoC	-
AE	USB Keyboard #2	SAMSUNG	SKG-3000UB	FCC DoC	-
AE	Headset #1	SAMSUNG	SHS-250V	FCC DoC	-
AE	Headset #2	SAMSUNG	SHS-250V	FCC DoC	-
AE	HUB	-	-	FCC DoC	-
<p><b>*Note:</b> EUT - Equipment Under Test,            AE - Auxiliary/Associated Equipment,            SIM - Simulator (Not Subjected to Test)</p>					

## 2.2 Input/Output Ports:

Port #	Name	Type*	Cable Max. >3m	Cable Shielded	Comments
1	A.C. input port	AC	1.8	Unshielded	A.C. Power Cord
2	Audio In	I/O	1.2	Unshielded	Connected to the PC 2
3	DVI In	I/O	1.0	shielded	Connected to the PC 2
4	D-SUB In	I/O	1.0	shielded	Connected to the PC 2
5	DVI Out #1	I/O	1.5	shielded	Connected to the Monitor
6	USB#1~#3	I/O	1.5	shielded	Connected to the USB Mouse#1~#3
7	USB	I/O	1.7	shielded	Connected to the USB Keyboard #1
8	LAN(RJ-45)	TP	3.0	Shielded(FTP)	Connected to the HUB
9	Audio In/Out	I/O	1.8	Unshielded	Connected to the Headset #1
10	RS-232	-	-	-	Not user port
11	DVI IN #2	I/O	1.5	Shielded	Open
12	LAN(RJ-45)	TP	3.0	shielded	Connected to the PC #1, HUB
<b>Note:</b> *AC= AC Power Port, DC = DC Power Port, N/E = Non-Electrical, I/O= Signal Input or Output Port (Not Involved in Process Control), TP= Telecommunication Ports, * RS-232 port is used for service purpose only. No user interface port.					

## 2.3 Power Interface:

Mode #	Voltage (V)	Current (A)	Power (W)	Frequency (DC/AC-Hz)	Comments
Rated	AC 100-240 V	2 A	-	50-60Hz	Rated of Power Supply
1	AC 120 V	-	-	60Hz	-

## 2.4 Test Operating Mode:

Mode #	Mode	Comments
1	DVI Mode #1,#2	-
2	PCoIP	Worst case condition
3	VGA Mode	Worst case condition
* Note: EUT have been performed under continuous displaying "H" Patten for configuration Modes of 1 to 3.		

## 2.5 Modes of Video Resolution:

Mode #		Resolution	Comments
1	VGA Mode	640 x 350 @70Hz	-
2		1024 x 768 @75Hz	-
3		1920 x 1080@60Hz	Worst case condition (Range of Brightness: 100, Range of contrast: 100 And range of backlight: 100.
4	DVI Mode	640 x 350 @70Hz	-
5		1024 x 768 @75Hz	-
6		1920 x 1080@60Hz	Worst case condition (Range of Brightness: 100, Range of contrast: 100 And range of backlight: 100.
7	PCoIP Mode	640 x 350 @70Hz	-
8		1024 x 768 @75Hz	-
9		1920 x 1080@60Hz	Worst case condition (Range of Brightness: 100, Range of contrast: 100 And range of backlight: 100.
* <b>Note:</b> Video resolution where it refers from above is representative worst case.			

## 2.6 Used D.C. Extension Cable for Test:

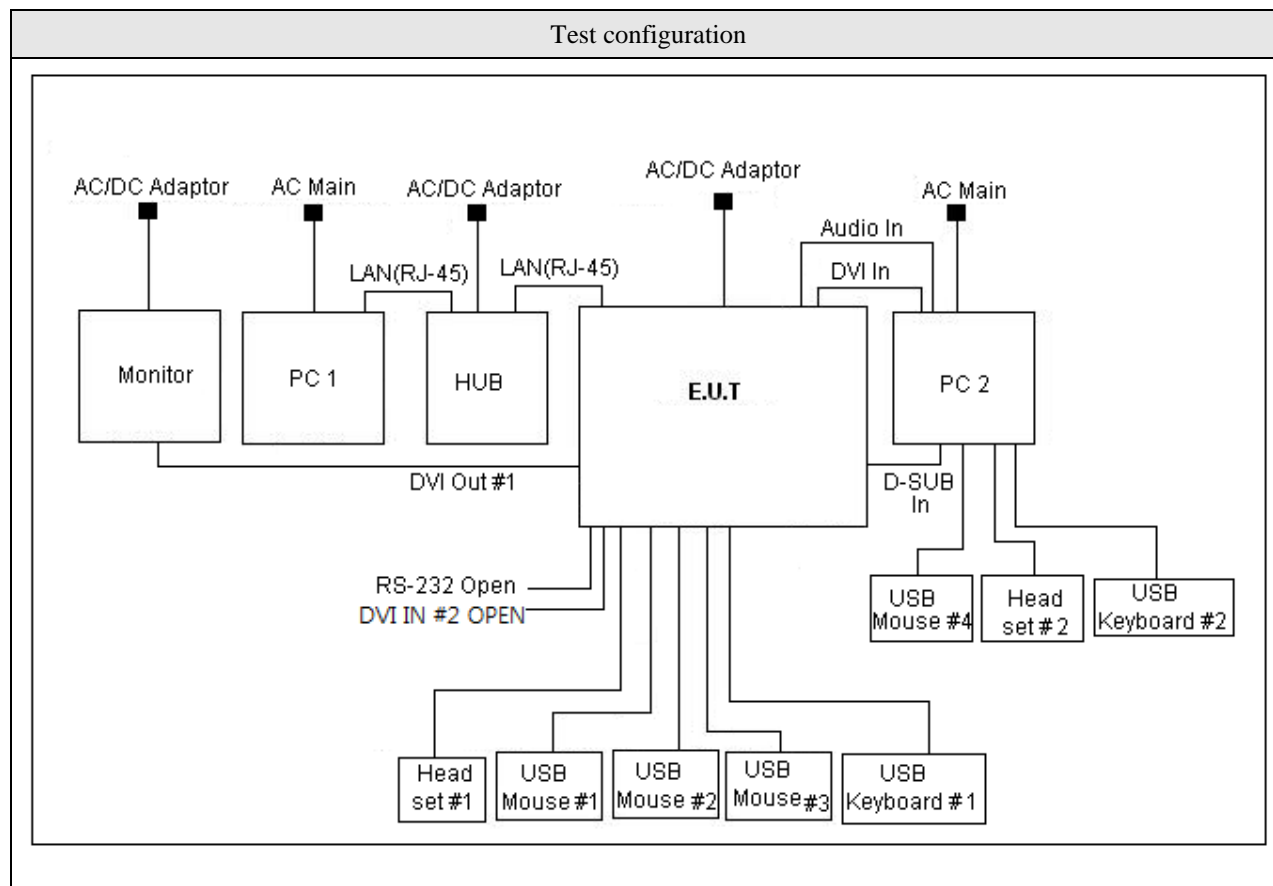
No.	Cable Length	Preliminary Test	Comment
1	5ft	DVI, PCoIP, VGA Mode.	-
2	15ft		-
3	75ft		Worst case condition

**\* Note:** Radiated emission and conducted emission test were performed for all extension power cable during the preliminary testing and selected worst-case condition (75ft) for final measurements.

Diagram illustrating the test setup for radiated emission and conducted emission testing:

- Hospital-grade power cord** is connected to the **Power Supply** (Model No: JMW1100KB1300F02).
- The **Power Supply** is connected to the **Extension power cord (optional)** (Manufacturer: Bridgepower, Part No: CB-47D2001P50MF (5ft) or CB-47D2004P57MF (15ft) or CB-47D2022P86MF (75ft)).
- The **Extension power cord** is connected to the **AMM215MPWTD** device.

## 2.7 Test Configuration:



## 2.8 Result of Testing:

No	Test requirements	Standard	Results	Verdict
1	AC Power line Conducted Emission Test	47 CFR Part 15.107(a) / 47 CFR Part 15.109(a) Class B	Met limit Class B	<b>Complied</b>
2	Radiated Emission Test		Met limit Class B	<b>Complied</b>

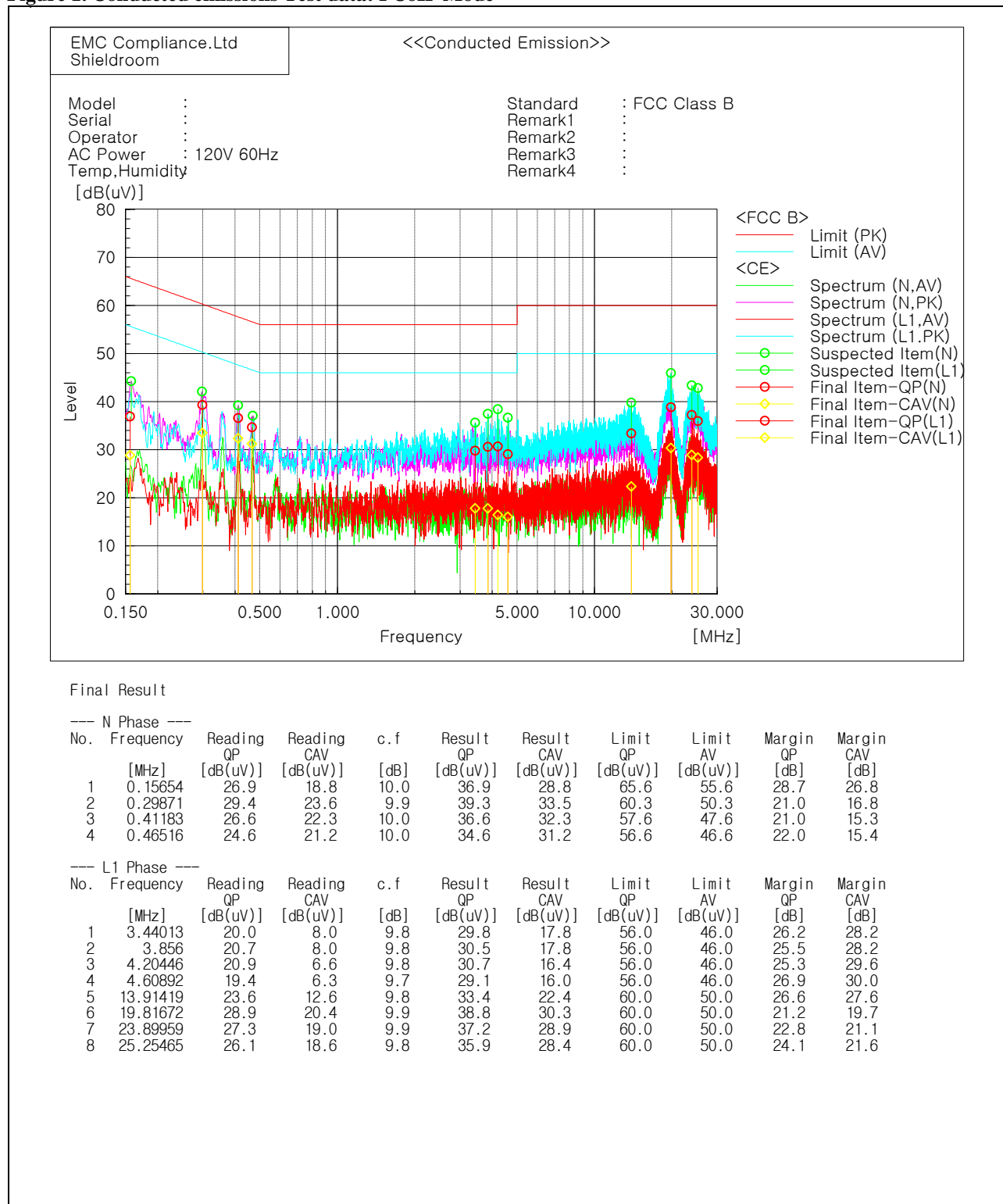
**\* Note:** This product has been tested in accordance with the measurement procedures specified 47 CFR Part 15.107 (a) / 47 CFR Part 15.109 (a) Class B at the EMC Compliance Laboratory and the test results has been shown to be complied with the EMC requirements specified in the standard above.

### 3. TEST CONDITION AND RESULTS

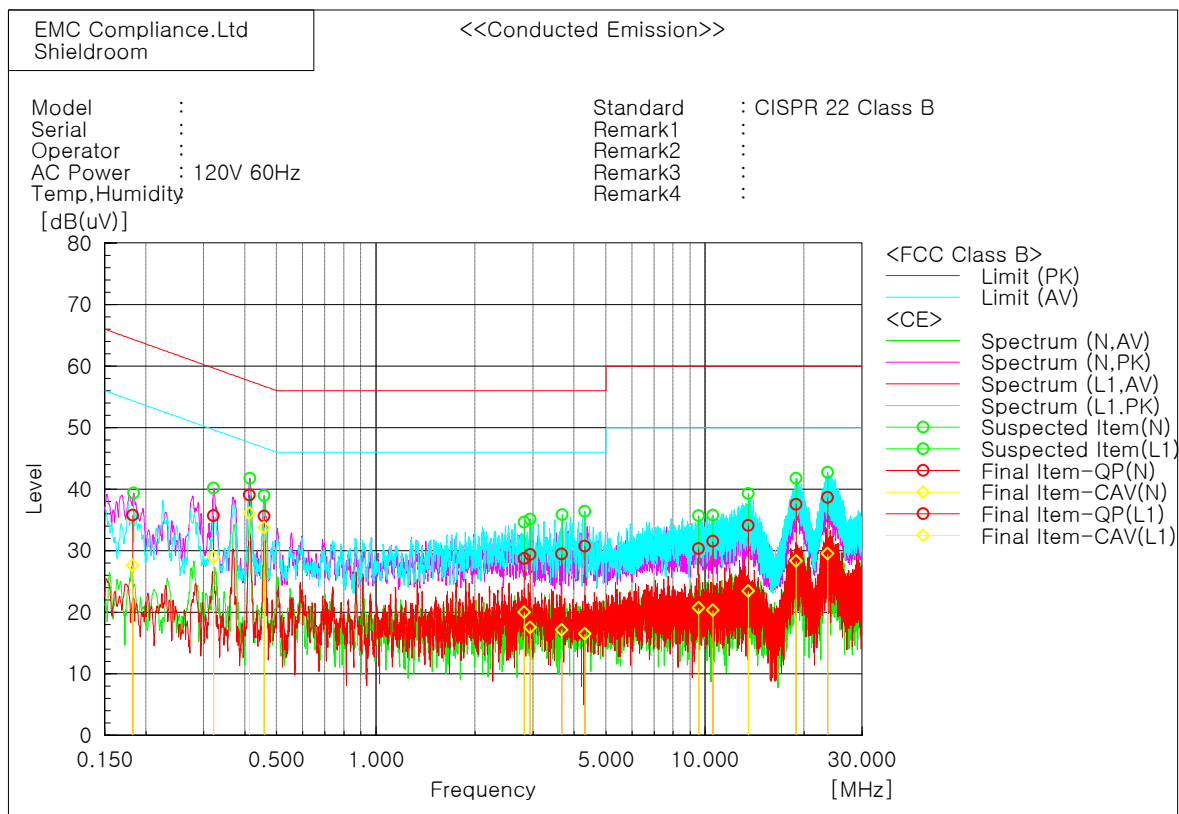
#### 3.1 MAINS TERMINAL DISTURBANCE VOLTAGE TEST

TEST: Limits of mains terminal disturbance voltage					
Method	Measurements were made on a ground plane that extends 1-meter minimum beyond all sides of the system under test. All power was connected to the system through Artificial Mains Network (AMN). Conducted voltage measurements on mains lines were made at the output of the AMN.				
Basic Standard		FCC Part 15			
Parameters recorded during the test	Laboratory Ambient Temperature			20.4 °C	
	Relative Humidity			22.9 %	
-	Frequency range on each side of line			Measurement Point	
Fully configured sample scanned over the following frequency range	150 kHz to 30 MHz			AC Input port of EUT	
Limits - Class B					
Frequency (MHz)	Limit (dBµV)				
	Quasi-Peak	Result	Average	Result	
0.15 to 0.50	66 to 56	Pass	56 to 46	Pass	
0.50 to 5	56	Pass	46	Pass	
5 to 30	60	Pass	50	Pass	
EUT Configuration Settings:					
Power Interface Mode # (See Section 2.3)		EUT Operation Mode # (See 2.4)		EUT Configurations Mode # (See Section 2.7)	
1		2, 3		1	
Conducted Emissions Test Equipment used:					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
EMI Test Receiver	R&S	ESCI	100001	2013.07.25	2014.07.25
LISN	R&S	ENV216	101358	2013.10.04	2014.10.04
LISN	R&S	ESH3-Z5	100267	2013.07.08	2014.07.08

**Figure 1. Conducted emissions Test data: PCoIP Mode**



**Figure 2. Conducted emissions Test data: VGA Mode**



Final Result

--- N Phase ---

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.18256	25.8	17.6	10.0	35.8	27.6	64.4	54.4	28.6	26.8
2	0.32086	25.7	18.9	10.0	35.7	28.9	59.7	49.7	24.0	20.8
3	0.41288	29.0	26.1	10.0	39.0	36.1	57.6	47.6	18.6	11.5
4	0.45768	25.6	23.8	10.0	35.6	33.8	56.7	46.7	21.1	12.9

--- L1 Phase ---

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	2.82749	18.9	10.2	9.8	28.7	20.0	56.0	46.0	27.3	26.0
2	2.94119	19.5	7.7	9.8	29.3	17.5	56.0	46.0	26.7	28.5
3	3.67474	19.7	7.3	9.8	29.5	17.1	56.0	46.0	26.5	28.9
4	4.31115	21.0	6.7	9.8	30.8	16.5	56.0	46.0	25.2	29.5
5	9.55446	20.7	11.1	9.7	30.4	20.8	60.0	50.0	29.6	29.2
6	10.56447	21.8	10.6	9.7	31.5	20.3	60.0	50.0	28.5	29.7
7	13.53606	24.3	13.7	9.8	34.1	23.5	60.0	50.0	25.9	26.5
8	18.90541	27.6	18.4	9.9	37.5	28.3	60.0	50.0	22.5	21.7
9	23.58821	28.7	19.6	9.9	38.6	29.5	60.0	50.0	21.4	20.5



### 3.2 RADIATED DISTURBANCE

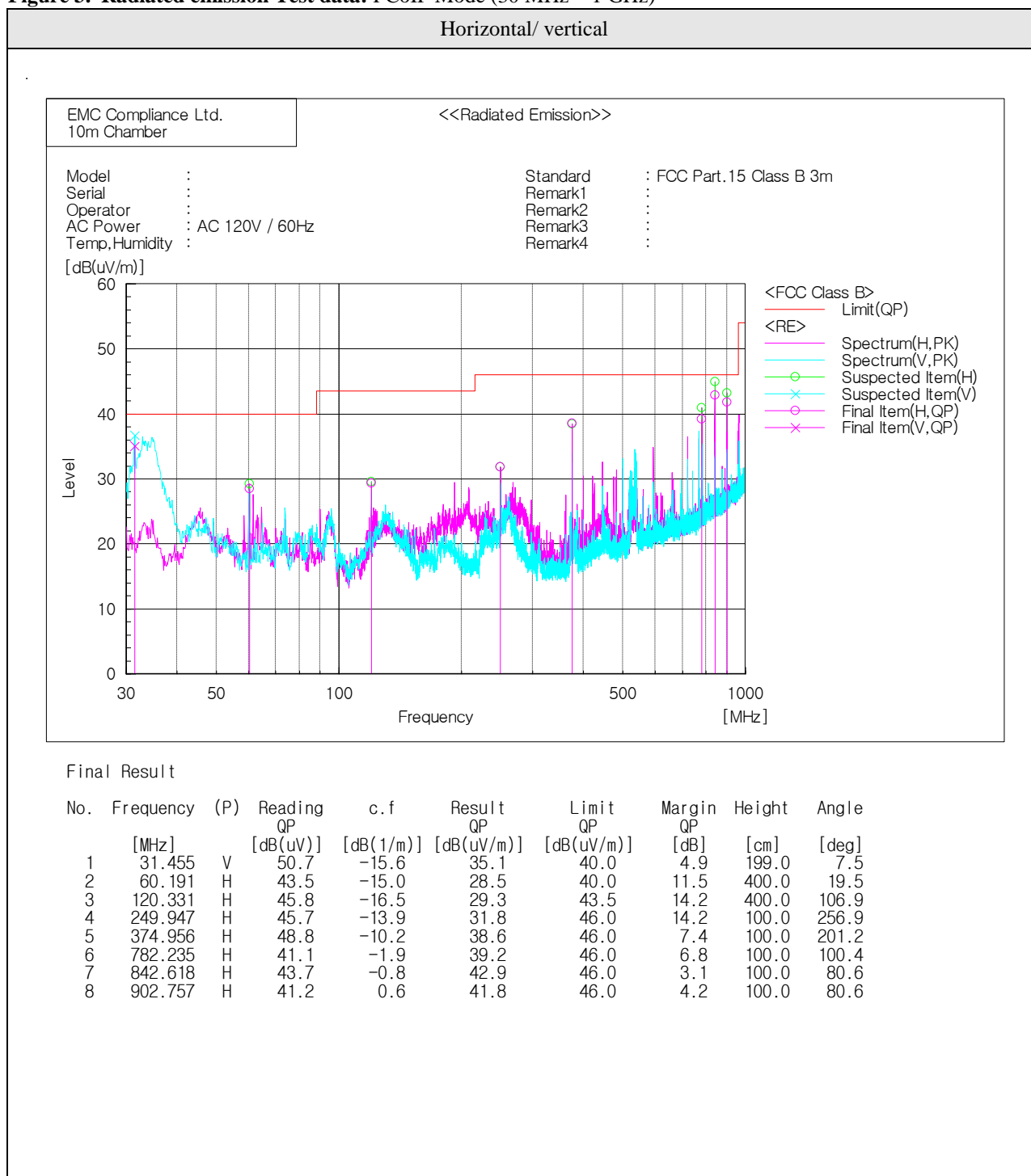
TEST: Limits for radiated disturbance			
Method	Frequency scans were conducted with a peak detector with horizontal and vertical polarization of the antenna. Measurements were done in the frequency range 30-1000 MHz. The main test was then conducted by measurements at each frequency found in the pretest. These measurements were done at an open area test site at 3m distances, with a quasi-peak detector. EUT was positioned on a wooden table 0.8m above the floor, at the edge of the turntable. Cables connected to EUT were fixed to cause maximum emission. A maximum emitting point for each frequency was found by turning EUT 0-360 degrees, and adjust the antenna height between 1-4m. A quasi-peak detector measurement was then done at the maximum emitting point.		
	The measurements (above 1 GHz) were made 3 m distance test site. The EUT was placed on a non-conductive turntable approximately 0.8 m above the ground plane. The turntable with EUT was rotated 360°, and the antenna was varied in height between 1.0 m and 4.0 m in order to determine the maximum emission levels.		
	This procedure was performed for both horizontal and vertical polarization of the receiving antenna.		
	The measurements were conducted with Average and Peak value.		
Basic Standards		FCC Part 15	
Parameters recorded during the test	Laboratory Ambient Temperature		18.0 °C
	Relative Humidity		23.2 %
-	Frequency range		Measurement Point
Fully configured sample scanned over the following frequency range	30 MHz – 1.0 GHz		3 meter measurement distance
	1.0 GHz ~ 6.0 GHz		3 meter measurement distance
Limits – Class B			
Frequency (MHz)	Limit (dBµV/m)		
	Quasi-Peak		Results
30 to 88	40.00		Pass
88 to 216	43.52		Pass
216 to 960	46.02		Pass
960 to 1000	53.97		Pass
-	Average	Peak	-
Above 1000	54	74	Pass
EUT Configuration Settings:			
Power Interface Mode # (See Section 2.3)	EUT Operation Mode # (See 2.4)		EUT Configurations Mode # (See Section 2.7)
1	2, 3		1

Order Number: 10140639  
Model Number: AMM215MPWTD  
Client Name: ADVAN INT'L CORP.

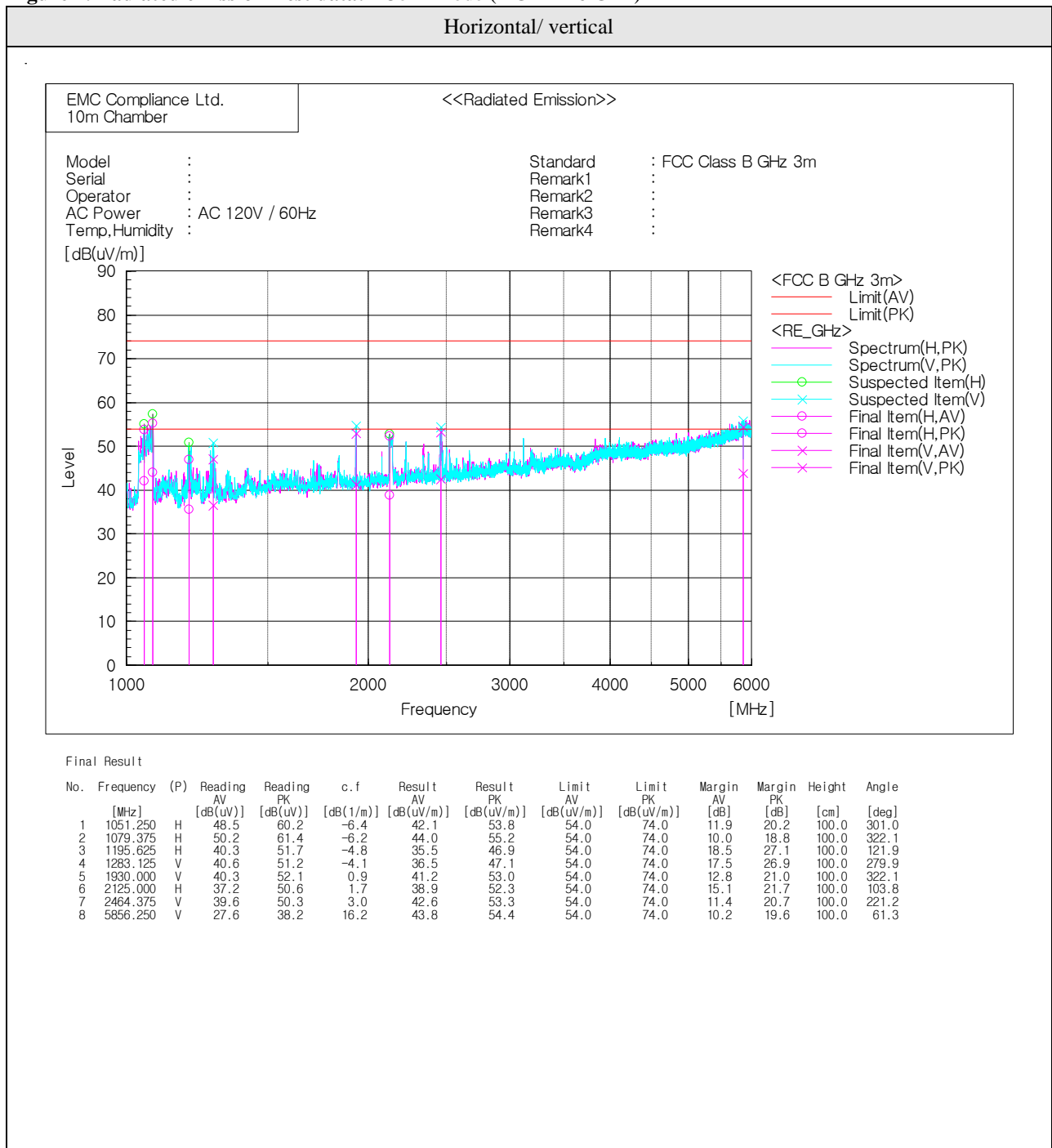
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Radiated Emissions Test Equipment:					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Test Receiver	R&S	ESCI7	100732	2013.02.18	2014.02.18
Bi-Log Antenna	SCHWARZBECK	VULB 9168	440	2013.10.16	2015.10.16
Amplifier	SONOMA INSTRUMENT	310N	293004	2013.10.31	2014.10.31
3 dB Attenuator	HP	8491B	22981	2013.03.19	2014.03.19
Antenna Mast	Innco Systems	MA4000-EP	303	-	-
Turn Table	Innco Systems	DT2000S-1t	079	-	-
Amplifier	AGILENT	8449B	3008A02343	2013.10.31	2014.10.31
Horn ANT	3115	00155772	ETS	2013.03.20	2014.03.20

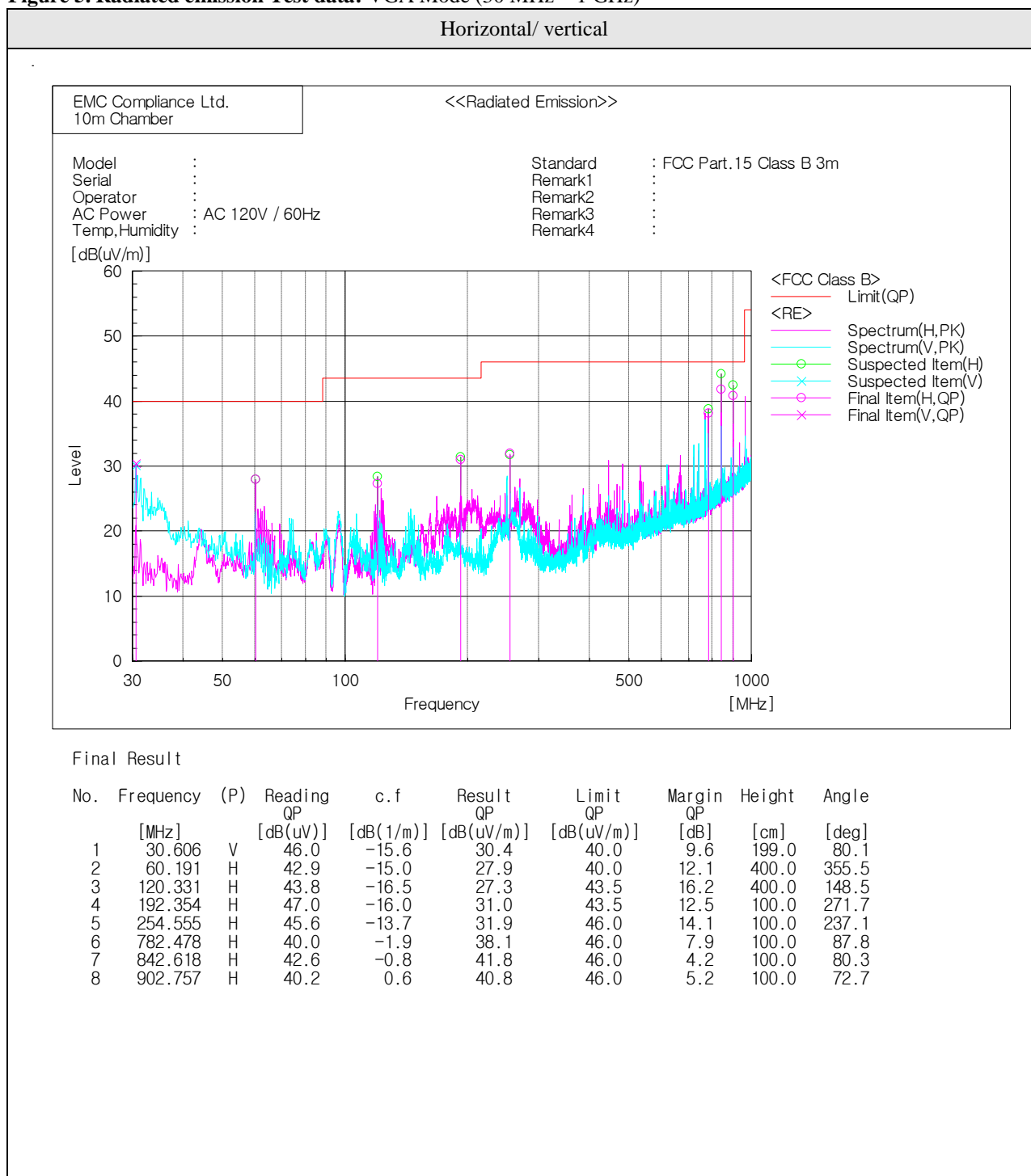
**Figure 3. Radiated emission Test data: PCoIP Mode (30 MHz ~ 1 GHz)**



**Figure 4. Radiated emission Test data: PCoIP Mode (1 GHz ~ 6 GHz)**



**Figure 5. Radiated emission Test data: VGA Mode (30 MHz ~ 1 GHz)**



**Figure 6. Radiated emission Test data: VGA Mode (1 GHz ~ 6 GHz)**

