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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT





FCC Applicant: Harman Professional, Inc.

8500 Balboa Blvd., Northridge, CA 91329 USA

FCC Manufacturer: Harman Professional, Inc.

8500 Balboa Blvd., Northridge, CA 91329 USA

10 inches Touch Panel **Product Name:**

Brand Name: AMX

Model No.: VARIA-100

Model Difference: N/A

Report Number: TERF2211002140ER

FCC ID 2AUHEVARIA-100

Date of EUT Received: Nov. 02, 2022

Nov. 04, 2022~Nov. 16, 2022 Date of Test:

Issue Date: Mar. 29, 2023

Approved By

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab 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 comply with FCC rule part §15.225.

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Revision History								
Report Number	Revision	Description	Issue Date	Revised By	Remark			
TERF2211002140ER	00	Original.	Nov. 29, 2022	Yami Kuo				
TERF2211002140ER	01	Revise the product name	Mar. 29, 2023	Yami Kuo	*			

Note:

1 The remark "*" indicates modification of the report upon requests from certification body.

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GENERAL INFORMATION

Product Description

Product Name:	10 inches Touch Panel
Brand Name:	AMX
Model No.:	VARIA-100
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	1070PWDV-0004
Power Supply:	100-240V 50/60Hz
Test Software (Name/Version)	Default

1.2 RF specification

Radio Technology:	NFC
Operating Frequency	13.56MHz
Transmit Power	5.90 dBuV/m at 30m.
Number of Channels	1
Modulation Type	ASK
Antenna Type	Loop Antenna

Note: Antenna information is provided by the applicant.

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1.3 Test Methodology

FCC Part 15, Subpart C §15.225 ANSI C63.10:2013.

1.4 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
		SAC 1		
		SAC 2		
		SAC 3		
	No 124 Wu Kung Dood New Toingi	Conduction 1		
	No.134, Wu Kung Road, New Taipei	Conducted 1	TW0027	
	Industrial Park, Wuku District, New Taipei City, Taiwan.	Conducted 2	1 00027	TW3702
		Conducted 3		
		Conducted 4		
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.		Conduction C		
(TAF code 3702)		SAC C		
		SAC D		
		SAC G		
	No 2 Kaii 4at Dd. Cwiahan Diatriat	Conducted A		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conducted B	TW0028	
	ladydaii Oity, iaiwaii 333	Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.5 Special Accessories

There is no other accessory attached. This is the worst case condition.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The Tx frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is a placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table 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 max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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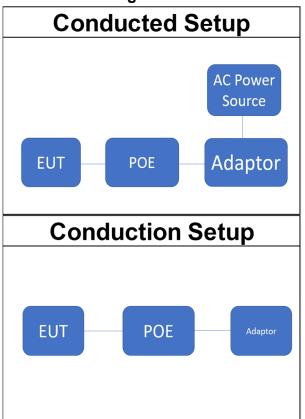
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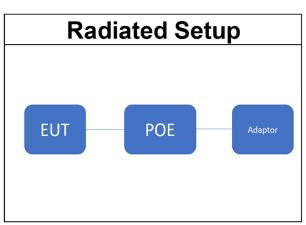
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2.4 Test Configuration





2.5 Control Unit(s)

Conducted Emission Test Site: Conducted 2							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
PoE Injector	tp-link	TL-POE150S	2224368003407	N/A	N/A		
Adaptor	tp-link	T480050-2B1	2232361507	N/A	N/A		
H-Loop Near Field Antenna	EMCI	LF-R 400	02-1637	N/A	N/A		
		Radiated Emission Te	st Site: SAC 1				
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Test Software	Audix	e3	Ver. 9.210322	N.C.R	N.C.R		
PoE Injector	tp-link	TL-POE150S	2224368003407	N/A	N/A		
Adapter	tp-link	T480050-2B1	2232361507	N/A	N/A		
	AC Power-Line Conducted Emission Test Site: Conduction 1						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Test Software	audix	e3	Ver. 9 210322	N.C.R	N.C.R		
PoE Injector	tp-link	TL-POE150S	2224368003407	N/A	N/A		
Adapter	tp-link	T480050-2B1	2232361507	N/A	N/A		

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.225 (a)-(d)	Radiated Emission	Compliant
§15.209	Radiated Emission Limits, general requirement	Compliant
§15.225 (e)	Frequency Stability	Compliant
§2.1049 §15.215 (c)	Emission Bandwidth	Compliant
§15.203	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Channel Details

- 1. The EUT stay in continuous transmission mode.
- 2. The frequency 13.56 MHz is the default channel to test, where it is the only manipulative channel as this application supports.
- 3. Only one configuration is supported/applicable as follows.

RADIATED EMISSION TEST								
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION					
NFC	1	1	ASK					
	FREQUENCY STABILITY							
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION					
NFC	1	1	ASK					
	20dB BANDWIDTH							
MODE	AVAILABLE CHANNEL							
NFC	1	1	ASK					

The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

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5 MEASUREMENT UNCERTAINTY

Test Items	Unc	ertainty	Ī
AC Power Line Conducted Emission	+/-	2.34	dB
Frequency Stability	+/-	1.53	Hz
Emission Bandwidth	+/-	1.53	Hz
Temperature	+/-	0.4	Ô
Humidity	+/-	3.5	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty						
Polarization: Vertical	+/-	2.57	dB	9kHz~30MHz		
	+/-	4.85	dB	30MHz - 1000MHz		
	+/-	4.45	dB	1GHz - 18GHz		
	+/-	4.24	dB	18GHz - 40GHz		
	+/-	2.57	dB	9kHz~30MHz		
Dolovization, Hovizantal	+/-	4.37	dB	30MHz - 1000MHz		
Polarization: Horizontal	+/-	4.45	dB	1GHz - 18GHz		
	+/-	4.24	dB	18GHz - 40GHz		

Note:

- 1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
- 2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction 1								
EQUIPMENT TYPE	EQUIPMENT TYPE MFR MODEL NUMBER SERIAL NUMBER LAST CAL. CAL DUE.							
EMI Test Receiver	eiver R&S ESR 7 102525 02/17/2022 02/16/2023							
LISN	SCHWARZBECK	NSLK 8127	1040	08/23/2022	08/22/2023			
Coaxial Cables	N/A	Coaxial Cable	161207	12/07/2021	12/06/2022			

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted 2								
EQUIPMENT TYPE	MFR MODEL NUMBER SERIAL NUMBER LAST CAL. CAL DUE.							
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60240503	12/09/2021	12/08/2022			
Temperature Chamber	TERCHY	MHG-120LE	1110435	05/27/2022	05/26/2023			
AC Power Source	Gwinstek	APS-7050E	GEV171679	10/05/2022	10/04/2023			
DC Block	Mini-Circuits	BLK-18-S+	1	12/14/2021	12/13/2022			

6.3 Radiated Measurement

Radiated Emission Test Site: SAC 1								
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.			
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/03/2022	01/02/2023			
Site Cal	SGS	SAC 1	N/A	01/01/2022	12/31/2022			
Loop Antenna	ETS.LINDGREN	6502	148045	10/05/2022	10/04/2023			
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/28/2022	10/27/2023			
EMI Test Receiver	R&S	ESCI 7	100759	08/22/2022	08/21/2023			
Pre-Amplifier	HP	8447D	2944A09469	12/16/2021	12/15/2022			
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	12/16/2021	12/15/2022			
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	12/16/2021	12/15/2022			
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	12/16/2021	12/15/2022			

NOTE: N.C.R refers to Not Calibrated Required.

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CONDUCTED EMISSIONS TEST

7.1 Standard Applicable

According to §15.207 and frequency within 150 kHz to 30MHz shall not exceed the limit table as below.

45 25.5				
Frequency range	Limits (dBuV)			
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		

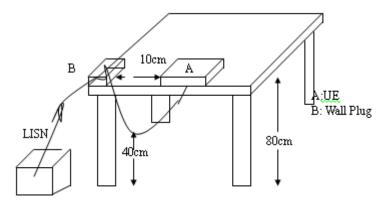
Note

- 1. The lower limit shall apply at the transition frequencies
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

7.2 **EUT Setup**

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.

7.3 Test SET-UP (Block Diagram of Configuration)



7.4 **Measurement Procedure**

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

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7.5 **Measurement Result**

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closest to the limit.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

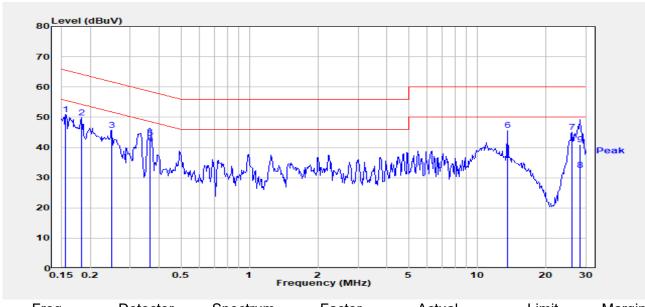
Report Number :TERF2211002140ER Test Site :Conduction 1

Test Mode :NFC Test Date :2022-11-16

:120V/60Hz Temp./Humi. :23.1/68 Power

Probe :L Engineer :GN Lin

Note:



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS		
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.156	Peak	40.70	10.22	50.92	65.68	-14.76
0.183	Peak	39.66	10.22	49.88	64.34	-14.46
0.249	Peak	35.45	10.22	45.67	61.79	-16.12
0.366	Average	31.07	10.22	41.29	48.60	-7.31
0.366	QP	32.95	10.22	43.17	58.60	-15.43
13.560	Peak		10.63	45.82		
26.127	Peak	34.37	10.73	45.10	60.00	-14.90
28.213	Average	21.73	10.74	32.47	50.00	-17.53
28.213	QP	30.27	10.74	41.01	60.00	-18.99

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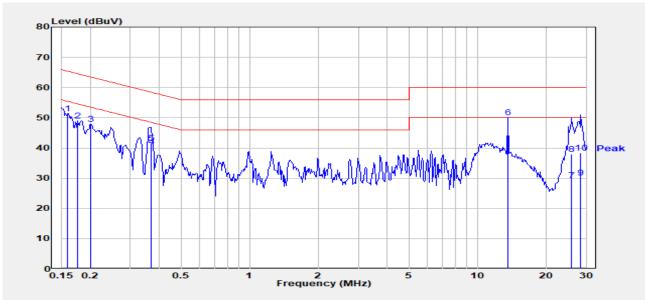
Report Number :TERF2211002140ER **Test Site** :Conduction 1

Test Mode :NFC Test Date :2022-11-16

Power :120V/60Hz Temp./Humi. :23.1/68

Engineer Probe :N :GN Lin

Note:



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.160	Peak	41.12	10.26	51.38	65.49	-14.11
0.176	Peak	38.60	10.32	48.92	64.66	-15.74
0.201	Peak	37.49	10.40	47.89	63.58	-15.69
0.368	Average	30.28	10.24	40.52	48.54	-8.02
0.368	QP	31.49	10.24	41.73	58.54	-16.81
13.560	Peak		10.64	50.06		
25.927	Average	18.47	10.74	29.21	50.00	-20.79
25.927	QP	27.18	10.74	37.92	60.00	-22.08
28.430	Average	19.35	10.74	30.09	50.00	-19.91
28.430	QP	27.59	10.74	38.33	60.00	-21.67

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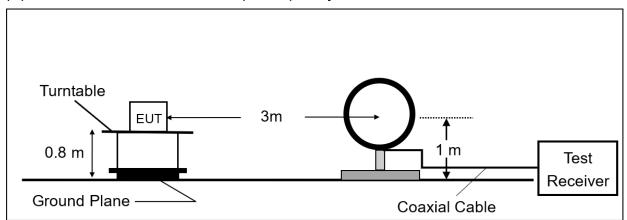


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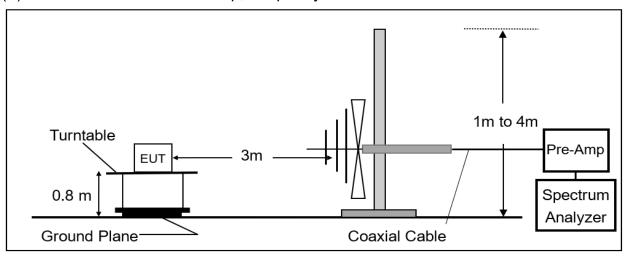
RADIATED EMISSION TEST

8.1 Test SET-UP (Block Diagram of Configuration)

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



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



8.2 **Measurement Procedure**

- 1. Configure the EUT according to ANSI C63.10.
- 2. The EUT was placed on a turn table which is 0.8m above ground plane and been measured in the frequency range between 0.009MHz to 30MHz and 30MHz to 1GHz.
- 3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- 4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission.
- 5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 6. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 7. Repeat above procedures until all default test channel measured were complete.

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8.3 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

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Field Strength of Fundamental Emission

8.4.1 Applicable standard

Rules and specifiactions	CFR 47 Part 15 section 15.225(a)-(d)			
Frequency of Emission (MHz)	Field Strength (µV/m)at 30m	Field Strength (dBµV/m)at 30m		
1.705~13.110	30	29.5		
13.110~13.410	106	40.5		
13.410~13.553	334	50.5		
13.553~13.567	15848	84		
13.567~13.710	334	50.5		
13.710~14.010	106	40.5		
14.010~30.00	30	29.5		

8.4.2 **Distance Extrapolation Factor**

30m to 3m

Distance extrapolation = 40 * log (30/3) = 40 dB

30m to 10m

Distance extrapolation = $40 \cdot \log (30/10) = 19.08 \, dB$

10m to 3m

Distance extrapolation = $40 \cdot \log (10/3) = 20.92 \, dB$

Note:

- Distance extrapolation factor = 40 log (required distance/ test distance) (dB)
- 2. The lower limit shall apply at the transition frequencies.
- KDB 414788 D01 OATS and 3m semi-anechoic chamber Justification: Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. OATS and 3m SAC chamber testing had been performed and 3m SAC measured test result is the worst case test result.

Actual FS(dB μ V/m) = Spectrum. Reading level(dB μ V) + Factor(dB)

Below 30 MHz of Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Distance Factor (dB)

Above 30 MHz of Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre Amp Gain (dB)

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

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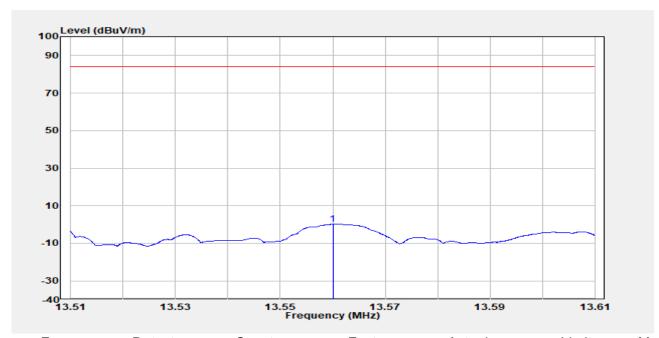
8.4.3 Field Strength of Fundamental Emission Measurement Result

Report Number :TERF2211002140ER Test Site :SAC 1

Operation Mode :NFC Test Date :2022-11-15

Test Frequency :13.56 MHz Temp./Humi. :23.4/65
Test Mode :Main Antenna Pol. :Vertical

EUT Pol :E1 Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμ̈V	dB	dBµV/m	dBµV/m	dB
						_
13.56	Peak	28.37	-28.14	0.24	84.00	-83.76

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss - Pre Amplifier Gain - distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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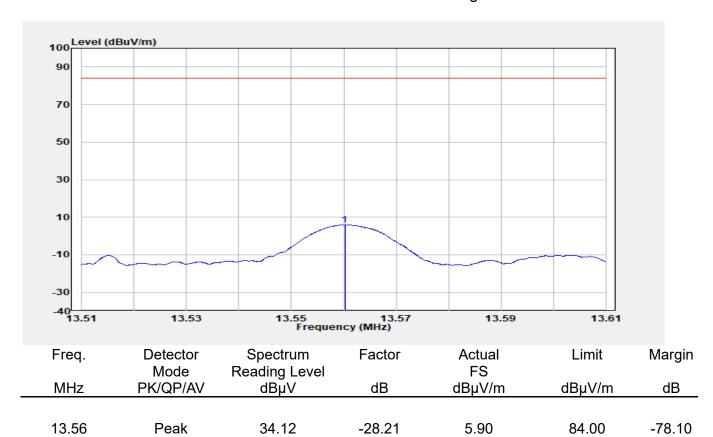
Test Site :SAC 1 Report Number :TERF2211002140ER

Operation Mode :2022-11-15 :NFC **Test Date**

Test Frequency :13.56 MHz Temp./Humi. :23.4/65

Test Mode :Main Antenna Pol. :Horizontal

EUT Pol :E1 Plane Engineer :GN Lin



Actual level = Reading level + Factor

Factor = Antenna factor + cable loss - Pre Amplifier Gain - distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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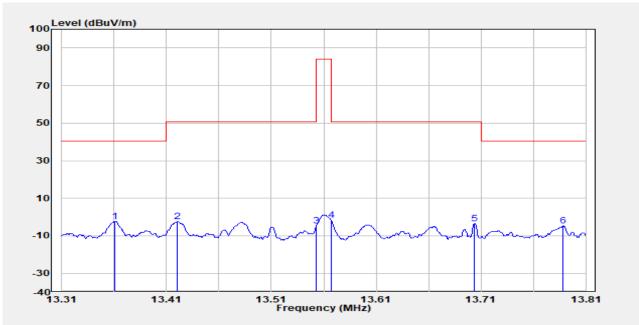
Test Site :SAC 1 Report Number :TERF2211002140ER

Operation Mode Test Date :2022-11-15 :NFC

Test Frequency :13.56 MHz Temp./Humi. :23.4/65

Test Mode :Mask Antenna Pol. :Vertical

EUT Pol :E1 Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
13.36	Peak	25.65	-28.10	-2.45	40.50	-42.95
13.42	Peak	25.53	-28.10	-2.57	50.50	-53.07
13.55	Peak	23.38	-28.11	-4.73	50.50	-55.23
13.57	Peak	26.45	-28.11	-1.66	50.50	-52.16
13.70	Peak	24.59	-28.12	-3.53	50.50	-54.03
13.79	Peak	23.24	-28.13	-4.89	40.50	-45.39

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss - Pre Amplifier Gain - distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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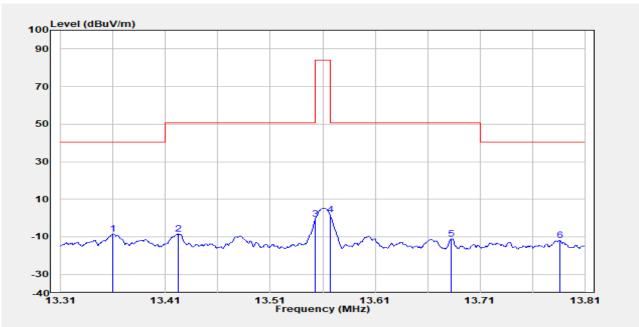
Report Number :TERF2211002140ER Test Site :SAC 1

Operation Mode :NFC Test Date :2022-11-15

Test Frequency :13.56 MHz Temp./Humi. :23.4/65

Test Mode :Mask Antenna Pol. :Horizontal

EUT Pol :E1 Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
13.36	Peak	19.65	-28.20	-8.55	40.50	-49.05
13.42	Peak	19.58	-28.20	-8.63	50.50	-59.13
13.55	Peak	27.69	-28.21	-0.52	50.50	-51.02
13.57	Peak	29.91	-28.21	1.70	50.50	-48.80
13.68	Peak	17.21	-28.22	-11.01	50.50	-61.51
13.79	Peak	16.28	-28.23	-11.95	40.50	-52.45

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss - Pre Amplifier Gain - distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m,within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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Radiated Spurious Emission Measurement

8.5.1 Standard Applicable

The field strength of any emissions appearing outside of the 13.110-14.010 MHz shall not exceed the general radiated emission limits in section 15.209 as below.

Frequency (MHz)	Field strength (μV/m)	Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

- 1. Emission level in $dB\mu V/m=20 \log (\mu V/m)$
- Distance extrapolation factor = 40 log (required distance/ test distance) (dB)
- 3. $20*\log(30uV/m) = 29.54 dBuV/m$
- The lower limit shall apply at the transition frequencies.
- The measurement was undertaken in closer distance at 3m, where extrapolation 5. factor is offset to convert the limit of the measurement.
- 6. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of §15.205.
- 7. The general radiated emission limits in §15.209 apply for the spurious emission generate from UE, except for the fundamental emission where the respective section specifies otherwise.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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8.5.2 Radiated Spurious Emission Measurement Result

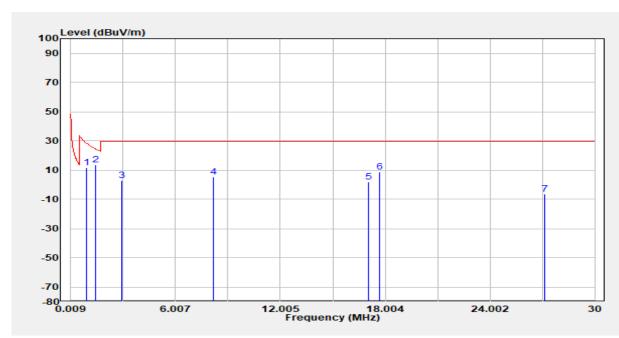
:SAC 1 Report Number :TERF2211002140ER Test Site

Operation Mode :2022-11-15 :NFC Test Date

Test Frequency :13.56 MHz Temp./Humi. :23.4/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :GN Lin :E1 Plane Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
0.91	Peak	40.27	-28.49	11.78	28.44	-16.66
1.42	Peak	42.08	-28.61	13.47	24.57	-11.10
2.95	Peak	31.89	-28.89	3.00	29.54	-26.54
8.20	Peak	33.55	-28.12	5.43	29.54	-24.11
17.07	Peak	30.41	-28.33	2.08	29.54	-27.46
17.70	Peak	36.99	-28.36	8.63	29.54	-20.91
27.12	Peak	23.89	-30.19	-6.30	29.54	-35.84

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss - Pre Amplifier Gain - distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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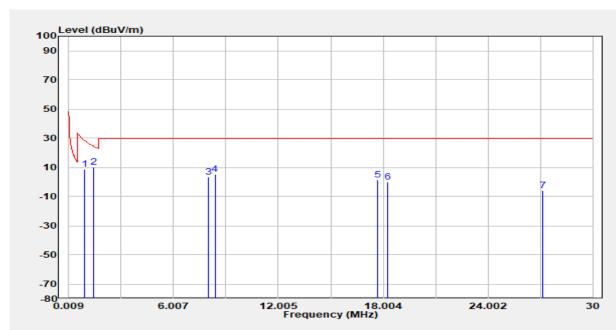
Report Number :TERF2211002140ER Test Site :SAC 1

Operation Mode :NFC Test Date :2022-11-15

Test Frequency :13.56 MHz Temp./Humi. :23.4/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :E1 Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
						_
0.91	Peak	37.26	-28.49	8.77	28.44	-19.67
1.42	Peak	38.94	-28.61	10.34	24.57	-14.23
7.99	Peak	31.79	-28.16	3.63	29.54	-25.91
8.38	Peak	33.33	-28.09	5.24	29.54	-24.30
17.70	Peak	29.73	-28.36	1.37	29.54	-28.17
18.24	Peak	28.64	-28.39	0.24	29.54	-29.30
27.12	Peak	24.20	-30.19	-5.99	29.54	-35.53

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre_Amplifier Gain – distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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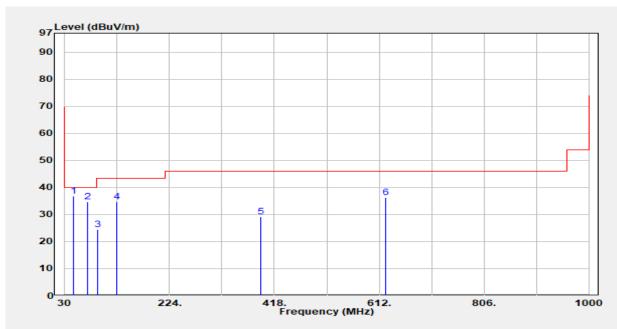
Report Number :TERF2211002140ER Test Site :SAC 1

Operation Mode :NFC Test Date :2022-11-15

Test Frequency :13.56 MHz Temp./Humi. :23.4/65

Test Mode :Tx Antenna Pol. :Vertical

EUT Pol :E1 Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
45.52	QP	50.19	-13.33	36.86	40.00	-3.14
72.68	QP	52.24	-17.54	34.70	40.00	-5.30
91.11	QP	39.62	-15.11	24.51	43.50	-18.99
127.00	QP	46.45	-11.62	34.83	43.50	-8.67
393.75	Peak	36.58	-7.31	29.27	46.00	-16.73
624.61	Peak	39.79	-3.54	36.25	46.00	-9.75

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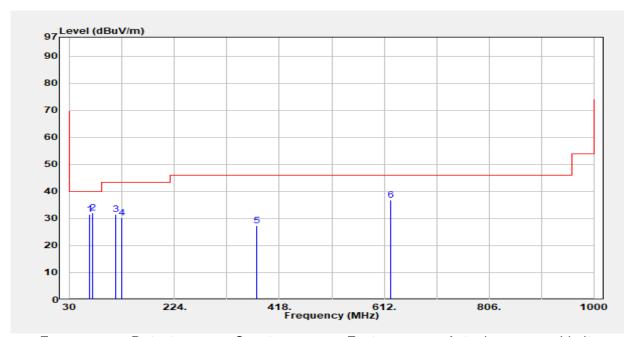
Report Number :TERF2211002140ER Test Site :SAC 1

Operation Mode :NFC Test Date :2022-11-15

Test Frequency :13.56 MHz Temp./Humi. :23.4/65

Test Mode :Tx Antenna Pol. :Horizontal

EUT Pol :E1 Plane Engineer :GN Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
66.86	Peak	49.43	-17.97	31.46	40.00	-8.54
72.68	Peak	49.54	-17.54	32.00	40.00	-8.00
114.39	Peak	43.37	-11.89	31.48	43.50	-12.02
127.00	Peak	41.80	-11.62	30.18	43.50	-13.32
375.32	Peak	35.26	-7.97	27.29	46.00	-18.71
624.61	Peak	40.40	-3.54	36.86	46.00	-9.14

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FREQUENCY STABILITY

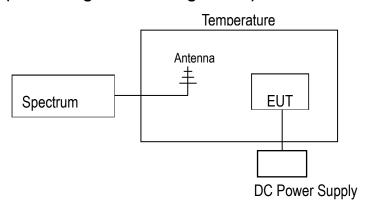
9.1 **Applicable Standard**

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

9.2 **Measurement Procedure**

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set EUT as normal operation
- 3. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10kHz, Span =100kHz.
- 4. Set SPA Max hold. Mark peak.

Test SET-UP (Block Diagram of Configuration) 9.3



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9.4 **Measurement Results**

Startup

A Temperature Variation

A. Temperature variation				
Power Supply	Environment	Frequency		
Vdc	Temperature	(MHz)	Delta (kHz)	Limit (kHz)
	(℃)			
120	-20	13.5599975	-0.00250	+/- 1.356
120	-10	13.5599919	-0.00810	+/- 1.356
120	0	13.5600089	0.00890	+/- 1.356
120	10	13.5600063	0.00630	+/- 1.356
120	20	13.5600026	0.00260	+/- 1.356
120	30	13.5599935	-0.00650	+/- 1.356
120	40	13.559998	-0.00200	+/- 1.356
120	50	13.5600045	0.00450	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency		
Vdc	Temperature (°ℂ)	(MHz)	Delta (kHz)	Limit (kHz)
138	20	13.5600074	0.00740	+/- 1.356
120	20	13.5599953	-0.00470	+/- 1.356
102	20	13.5600054	0.00540	+/- 1.356

2 minutes

A. Temperature Variation

Environment	Frequency		
Temperature $(^{\circ}\mathbb{C})$	(MHz)	Delta (kHz)	Limit (kHz)
-20	13.5600091	0.00910	+/- 1.356
-10	13.5600059	0.00590	+/- 1.356
0	13.5600017	0.00170	+/- 1.356
10	13.5600087	0.00870	+/- 1.356
20	13.5600068	0.00680	+/- 1.356
30	13.5599904	-0.00960	+/- 1.356
40	13.5599988	-0.00120	+/- 1.356
50	13.5599912	-0.00880	+/- 1.356
	Temperature (°C) -20 -10 0 10 20 30 40	Temperature (°C) (MHz) -20 13.5600091 -10 13.5600059 0 13.5600017 10 13.5600087 20 13.5600068 30 13.5599904 40 13.5599912	Temperature (°C) (MHz) Delta (kHz) -20 13.5600091 0.00910 -10 13.5600059 0.00590 0 13.5600017 0.00170 10 13.5600087 0.00870 20 13.5600068 0.00680 30 13.5599904 -0.00960 40 13.5599912 -0.00880

B. Supply Voltage Variation

Power Supply	Environment	Frequency		
Vdc	Temperature (°ℂ)	(MHz)	Delta (kHz)	Limit (kHz)
138	20	13.5599964	-0.00360	+/- 1.356
120	20	13.5600087	0.00870	+/- 1.356
102	20	13.5599932	-0.00680	+/- 1.356

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5 minutes

A. Temperature Variation

7. Temperatare variation				
Power Supply	Environment	Frequency		
Vdc	Temperature	(MHz)	Delta (kHz)	Limit (kHz)
	(℃)	(/		
120	-20	13.5600052	0.00520	+/- 1.356
120	-10	13.5600075	0.00750	+/- 1.356
120	0	13.5599949	-0.00510	+/- 1.356
120	10	13.5599982	-0.00180	+/- 1.356
120	20	13.5599978	-0.00220	+/- 1.356
120	30	13.5600025	0.00250	+/- 1.356
120	40	13.5599971	-0.00290	+/- 1.356
120	50	13.5599979	-0.00210	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency		
Vdc	Temperature	(MHz)	Delta (kHz)	Limit (kHz)
	(℃)	(**** —)		
138	20	13.5599914	-0.00860	+/- 1.356
120	20	13.5599946	-0.00540	+/- 1.356
102	20	13.5599959	-0.00410	+/- 1.356

10 minutes

A. Temperature Variation

Power Supply	Environment	Frequency		
Vdc	Temperature (°ℂ)	(MHz)	Delta (kHz)	Limit (kHz)
120	-20	13.5599989	-0.00110	+/- 1.356
120	-10	13.5600022	0.00220	+/- 1.356
120	0	13.5599986	-0.00140	+/- 1.356
120	10	13.5599921	-0.00790	+/- 1.356
120	20	13.5599923	-0.00770	+/- 1.356
120	30	13.5600036	0.00360	+/- 1.356
120	40	13.5599933	-0.00670	+/- 1.356
120	50	13.5599998	-0.00020	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency		
Vdc	Temperature (°ℂ)	(MHz)	Delta (kHz)	Limit (kHz)
138	20	13.5599996	-0.00040	+/- 1.356
120	20	13.5600095	0.00950	+/- 1.356
102	20	13.5599998	-0.00020	+/- 1.356

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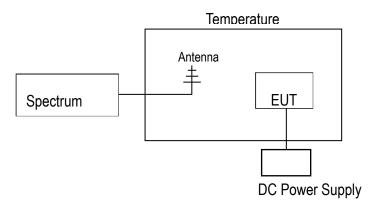
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10 EMISSION BANDWIDTH MEASUREMENT

Applicable Standard:

The 20 dB bandwidth shall be specified in operating frequency band.

10.2 **Test Set-up**



10.3 **Measurement Procedure**

- 1. Placed the EUT on the testing table.
- 2. Set the EUT under transmission condition continuously at specific channel frequency.
- 3. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
- 4. Measured the spectrum width with power higher than 20dB below carrier.

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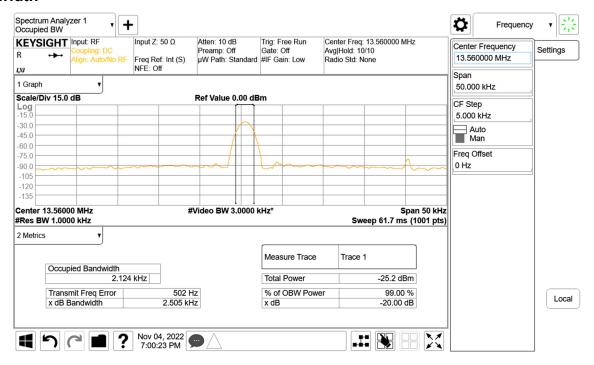
10.4 Measurement Result

FCC

20dB BW (kHz)		
2.505		

Opration range	Frequency (MHz)	Limit (MHz)
Low	13.559400	>13.11
High	13.561550	<14.01

Bandwidth



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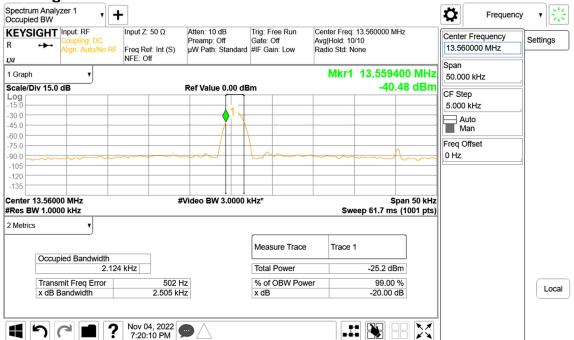
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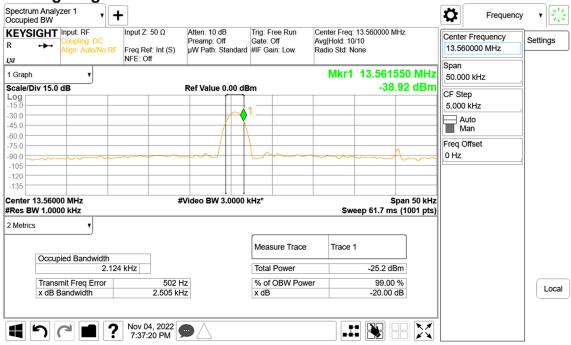


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Operation range low



Operation range High



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11 ANTENNA REQUIREMENT

Standard Applicable:

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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Antenna Connected Construction:

The antenna complies with this requirement and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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