



FCC 47 CFR PART 15 SUBPART C ISED RSS-210 ISSUE 10

CERTIFICATION TEST REPORT

For

Smart Payment Terminal

MODEL NUMBER: A8700

REPORT NUMBER: 4791162494.3-RF-5

ISSUE DATE: March 4, 2024

FCC ID: V5PA8700 IC: 11689A-A8700

Prepared for

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Prepared by

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Revision History

Rev.Issue DateRevisionsRevised ByV0March 4, 2024Initial Issue



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Summary of Test Results Clause Test Items **FCC Rules Test Results** RSS-Gen 6.7/ Transmitter 99% Emission 1 **PASS** Part 15.215 (c) Bandwidth / 20dB Bandwidth CFR 47 FCC §15.225(e) Transmitter Frequency ISED RSS-Gen Clause 6.11 2 **PASS** Stability (Temperature ISED RSS-210 Annex B.6 & Voltage Variation) CFR 47 FCC §5.225(a)(b)(c)(d) ISED RSS-Gen Clause 6.12 3 **PASS** Fundamental Field Strength ISED RSS-210 Annex B.6 CFR 47 FCC§15.209(a) CFR 47 FCC§15.225(d) **PASS** 4 Radiated Emissions ISED RSS-Gen Clause 6.13 ISED RSS-210 Annex B.6 CFR 47 FCC §15.209(a) CFR 47 FCC §15.225(c)(d) Band Edge Radiated 5 **PASS** ISED RSS-Gen Clause 6.13 **Emissions** ISED RSS-210 Annex B.6 CFR 47 FCC §15.207 Conducted Emission Test for 6 **PASS AC Power Port** ISED RSS-Gen Clause 8.8 CFR 47 FCC §15.203 7 Antenna Requirement Pass ISED RSS-Gen Clause 6.8

Note 1: This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

Note 2: The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 15 SUBPART C, ISED RSS-210 Issue 10 and ISED RSS-GEN Issue 5 > when <Accuracy Method> decision rule is applied.



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: PAX Technology Limited

Address: Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road,

Wanchai, Hong Kong 518057 China

Manufacturer Information

Company Name: PAX Computer Technology (Shenzhen) Co., Ltd.

Room 701, PAX Technology Building, Shanxia Community, Address:

Pinghu Sub-district, Longgang District, Shenzhen, China

EUT Information

EUT Name: Smart Payment Terminal

Model: A8700 Brand: PAX

Sample Received Date: January 18, 2024

Sample Status: Normal Sample ID: 6847696

Date of Tested: January 24, 2024 to March 4, 2024

APPLICABLE STANDARDS			
STANDARD	TEST RESULTS		
CFR 47 FCC PART 15 SUBPART C	PASS		
ISED RSS-210 Issue 10	PASS		
ISED RSS-GEN Issue 5	PASS		

Prepared By: Tammy . Huang	Checked By:		
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Approved By:			

Stephen Guo

Operations Manager

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 414788 D01 Radiated Test Site v01r01, FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2013, ISED RSS-210 Issue 10 and RSS-GEN Issue 5.

3. FACILITIES AND ACCREDITATION

	A2LA (Certificate No.: 4102.01)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with A2LA.
	FCC (FCC Designation No.: CN1187)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	Has been recognized to perform compliance testing on equipment subject
	to the Commission's Delcaration of Conformity (DoC) and Certification rules
	ISED (Company No.: 21320)
A a a ra ditation	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
Accreditation	has been registered and fully described in a report filed with ISED.
Certificate	The Company Number is 21320 and the test lab Conformity Assessment
	Body Identifier (CABID) is CN0046.
	VCCI (Registration No.: G-20192, C-20153, T-20155 and R-20202)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with VCCI, the
	Membership No. is 3793.
	Facility Name:
	Chamber D, the VCCI registration No. is G-20192 and R-20202
	Shielding Room B, the VCCI registration No. is C-20153 and T-20155

Note:

- All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China
- 2. The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.
- 3. For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz had been correlated to measurements performed on an OFS.

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4. CALIBRATION AND UNCERTAINTY

4.1. **MEASURING INSTRUMENT CALIBRATION**

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognize national standards.

4.2. **MEASUREMENT UNCERTAINTY**

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Conduction emission	3.62 dB
Radiation Emission test (include Fundamental emission) (9KHz-30MHz)	2.2 dB
Radiation Emission test (include Fundamental emission) (30MHz-1GHz)	4.00 dB
Radiation Emission test	5.78 dB (1 GHz-18 GHz)
(1GHz to 26GHz) (include Fundamental emission)	5.23 dB (18 GHz-26 GHz)

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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5. EQUIPMENT UNDER TEST

DESCRIPTION OF EUT 5.1.

EUT Name	Smart Payment Terminal
Model	A8700
Operation Frequency	13.56MHz
Modulation	ASK
Normal Test Voltage:	AC 120 V, 60 Hz

5.2. **MAXIMUM FIELD STRENGTH**

Frequency (MHz)	Max Peak field strength (dBµV/m)		
13.56	13.29		

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

Frequency (MHz)	Antenna Type	Antenna Gain (dBi)
13.56	Cable antenna	0

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5.4. TEST ENVIRONMENT

Environment Parameter	Selected Values During Tests		
Relative Humidity	55 ~ 65%		
Atmospheric Pressure:	1025Pa		
Temperature	TN	23 ~ 28°C	
	VL	AC 108 V	
Voltage:	VN	AC 120 V	
	VH	AC 132 V	

Note: VL= Lower Extreme Test Voltage

VN= Nominal Voltage

VH= Upper Extreme Test Voltage

TN= Normal Temperature

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5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
1	Laptop	Lenovo	E14	1
2	Card	/	/	1

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB 1	Type C	/	1.0	/
2	USB 2	/	/	1.0	/
3	RS232 Cable	/	/	2.0	/
4	RS232 Cable	/	/	2.0	/

ACCESSORIES

Item	Equipment	Brand Name	Model Name	Remarks
1	Adapter	HONOTO	ADS-65HI-19A-3	Input: 100-240V~, 50/60Hz, 1.5A max Output: DC 24V 2.7A 64.8W
2	Adapter	Sorghum	G065A1-240002700	Input: 100-240V~, 50/60Hz, 1.5A max Output: DC 24V 2.7A 64.8W
3	AC Cable	N/A	N/A	UnShielded, No Ferrite Core, 1.8m

Note: Two adapters have been tested, but only worst data recorded in the report.

TEST SETUP

The EUT can transmit the NFC signal through Swiping card (NFC)

NFC support both ISO /IEC 14443A and ISO /IEC 14443B. All lowest and highest data rates as per the standards are supported - 106 kbps, 212 kbps, 424 kbps and 848 kbps, all the modes had been tested, but only the worst data (ISO 14443A 106 kbps) was recorded in the report.

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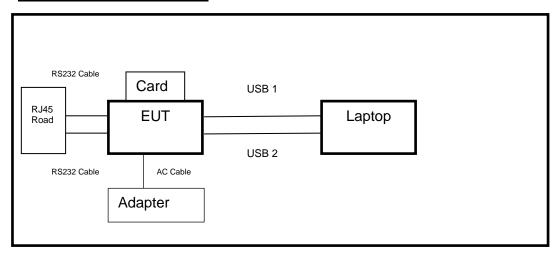
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SETUP DIAGRAM FOR TESTS



Note: Test was performed with tag and without tag, but only the worst-case data (with tag) was recorded in the report.



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5.6. MEASURING INSTRUMENT AND SOFTWARE USED

Conducted Emissions							
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date		
EMI Test Receiver	R&S	ESR3	101961	Oct.13, 2023	Oct.12, 2024		
Two-Line V- Network	R&S	ENV216	101983	Oct.13, 2023	Oct.12, 2024		
Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Oct.13, 2023	Oct.12, 2024		
Software							
Description			Manufacturer	Name	Version		
Test Software	for Conducted	Emissions	Farad	EZ-EMC	Ver. UL-3A1		

R&S TS 8997 Test System									
Equipment		Manufacturer		Model No.		Serial No.	Last Cal.		Due. Date
Power sensor, Power M	leter	R&S	3	OSP1	20	100921	Mar.31	,2023	Mar.30,2024
Vector Signal Genera	tor	R&S	3	SMBV1	00A	261637	Oct.12,	2023	Oct.11, 2024
Signal Generator		R&S	3	SMB10	00A	178553	Oct.12,	2023	Oct.11, 2024
Signal Analyzer		R&S	3	FSV4	10	101118	Oct.12,	2023	Oct.11, 2024
			•	Softwa	re				
Description		N	Manufa	acturer		Name		Version	
For R&S TS 8997 Test System Ro		m Ro	hde & Schwarz		EMC	32		10.60.10	
		То	nsen	d RF Te	st S	ystem			
Equipment	Manı	ufacturer	Mod	lel No.	S	erial No.	Last (Cal.	Due. Date
Wideband Radio Communication Tester	F	R&S	CM	W500		155523	Oct.12,	2023	Oct.11, 2024
Wireless Connectivity Tester	F	R&S	CM'	W270	120	1.0002N75- 102	Sep.25,	2023	Sep.24, 2024
PXA Signal Analyzer	Ke	ysight	N9(030A	MY	′55410512	Oct.12,	2023	Oct.11, 2024
MXG Vector Signal Generator	Ke	ysight	N5	182B	MY	′56200284	Oct.12,	2023	Oct.11, 2024
MXG Vector Signal Generator	Ke	Keysight N		172B	MY	′56200301	Oct.12,	2023	Oct.11, 2024
DC power supply	Ke	Keysight E		642A	MY	′55159130	Oct.12,	2023	Oct.11, 2024
Temperature & Humidity Chamber	SAN	SANMOOD S		0-CC-2		2088	Oct.12,	2023	Oct.11, 2024
Attenuator	A	glient	84	95B	28	14a12853	Oct.12,	2023	Oct.11, 2024



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RF Control Unit	Tonscend	JS0806-2	23B80620666	April 18,	2023	April 17, 2024
Software						
Description	Manufact	Manufacturer Name				Version
Tonsend SRD Test Syste	m Tonsei	nd JS1	JS1120-3 RF Test System			V3.2.22

	Radiated Emissions							
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date			
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Oct.12, 2023	Oct.11, 2024			
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Aug.02, 2021	Aug.01, 2024			
Preamplifier	HP	8447D	2944A09099	Oct.12, 2023	Oct.11, 2024			
EMI Measurement Receiver	R&S	ESR26	101377	Oct.12, 2023	Oct.11, 2024			
Horn Antenna	TDK	HRN-0118	130940	July 20, 2021	July 19, 2024			
Preamplifier	TDK	PA-02-0118	TRS-305- 00067	Oct.12, 2023	Oct.11, 2024			
Horn Antenna	Schwarzbeck	BBHA9170	697	July 20, 2021	July 19, 2024			
Preamplifier	TDK	PA-02-2	TRS-307- 00003	Oct.12, 2023	Oct.11, 2024			
Preamplifier	TDK	PA-02-3	TRS-308- 00002	Oct.12, 2023	Oct.11, 2024			
Loop antenna	Schwarzbeck	1519B	00008	Dec.14, 2021	Dec.13, 2024			
Preamplifier	TDK	PA-02-001- 3000	TRS-302- 00050	Oct.12, 2023	Oct.11, 2024			
		Sc	ftware					
Description			Manufacturer	Name	Version			
Test Software	for Radiated E	missions	Farad	EZ-EMC	Ver. UL-3A1			

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6. ANTENNA PORT TEST RESULTS

6.1. 99% & 20dB BANDWIDTH

LIMITS

Section	Test Item	Limit		
ANSI C63.10 Section 6.9.2	20dB% Bandwidth	For reporting purposes only.		
ISED RSS-Gen Clause 6.7 Issue 5	99 % Occupied Bandwidth	For reporting purposes only.		

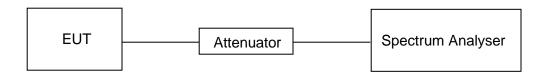
TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The RBW is set to 1 kHz. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

Note: Because the measured signal is CW or CW-like adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

The type of band for the signal is narrowband.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.5°C	Relative Humidity	58%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz

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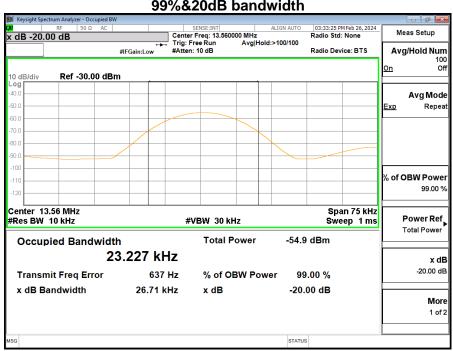
.



RESULTS

Frequency (MHz)	99% Occupied Bandwidth (kHz)	20dB bandwidth (kHz)
13.56	23.227	26.71







6.2. TRANSMITTER FREQUENCY STABILITY

LIMITS

CFR 47 FCC §15.225(e) ISED RSS-210 Annex B B.6

The frequency tolerance of the carrier signal shall be maintained within ±0.01% of the operating frequency over a temperature variation of -10 degrees to + 45 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.

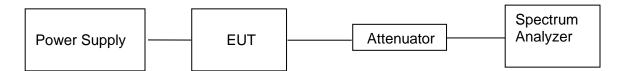
TEST SETUP AND PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	PEAK
RBW	10KHz
VBW	≥3 × RBW
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

Allow the trace to stabilize, find the peak value of the power envelope and record the frequency, then calculated the frequency drift.

TEST SETUP



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TEST RESULTS

Maximum frequency error of the EUT with variations in ambient temperature

_ (2.2)	Time after Start-up				
Temperature (°C)	0 minutes	2 minutes	5 minutes	10 minutes	
-10	13.5602	13.5607	13.5608	13.5611	
0	13.5605	13.5609	13.5604	13.5607	
10	13.5610	13.5612	13.5609	13.5603	
20	13.5611	13.5608	13.5605	13.5605	
30	13.5606	13.5603	13.5602	13.5606	
40	13.5607	13.5610	13.5609	13.5609	
45	13.5603	13.5609	13.5605	13.5610	
Maximum frequency error	0.0081%	0.0088%	0.0066%	0.0081%	
Limit	0.01%				
Result	Pass	Pass	Pass	Pass	

Maximum frequency error of the EUT with variations in nominal operating voltage at an ambient 20 degrees C temperature.

•	Time after Start-up					
Supply Voltage (V)	0 minutes	2 minutes	5 minutes	10 minutes		
AC 102 V	13.5609	13.5602	13.5603	13.5610		
AC 120 V	13.5605	13.5611	13.5607	13.5608		
AC 138 V	13.5610	13.5603	13.5610	13.5608		
Maximum frequency error	0.0074%	0.0081%	0.0074%	0.0081%		
Limit	0.01%					
Result	Pass	Pass	Pass	Pass		

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7. RADIATED EMISSION TEST RESULTS

LIMITS

Fundamental field strength

FCC Reference:	Part 15.225(a)(b)(c)(d) & 15.209(a)
ISED Canada Reference:	RSS-Gen 6.13 & RSS-210 B.6 & RSS-GEN Clause 8.9
Test Method Used:	ANSI C63.10 Sections 6.3, 6.4 and 6.5

Frequency (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measured Distance (Meters)
13.553-13.567	15848	84	30
13.410-13.553/13.567-13.710	334	50.47	30
13.110-13.410/13.710-14.010	106	40.51	30

Note(s):

- 1. The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in §15.209.
- 2. The limit is specified at a test distance of 30 meters. However, as specified by FCC Section 15.31 (f)(2), measurements may be performed at a closer distance and the measured level corrected to the specified measurement distance by using the square of an inverse linear distance extrapolation factor (40dB/decade).

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Radiation Disturbance Test Limit for FCC (Class B) (9KHz-1GHz)

Frequency (MHz)		
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

ISED General field strength limits at frequencies below 30 MHz

Table 6 – General field strength limits at frequencies below 30 MHz						
Frequency	Magnetic field strength (H-Field) (μA/m)	Measurement distance (m)				
9 - 490 kHz ^{Note 1}	6.37/F (F in kHz)	300				
490 - 1705 kHz	63.7/F (F in kHz)	30				
1.705 - 30 MHz	0.08	30				

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

Note: 1) At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

(2) At frequencies below 30 MHz, 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. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). This paragraph (f) shall not apply to Access BPL devices operating below 30MHz.

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Restricted bands of operation

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	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	(²)
13.36-13.41			

Note: 1 Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. 2 Above 38.6c



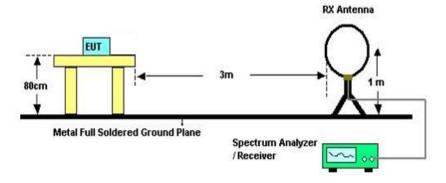
Table 7 – Restricted frequency bands ^{kos 1}						
MHz	MHz	GHz				
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2				
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5				
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7				
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4				
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5				
4.17725 - 4.17775	240 - 285	15.35 - 16.2				
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4				
5.677 - 5.683	399.9 - 410	22.01 - 23.12				
6.215 - 6.218	608 - 614	23.6 - 24.0				
6.26775 - 6.26825	960 - 1427	31.2 - 31.8				
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5				
8.291 - 8.294	1645.5 - 1646.5	Above 38.6				
8.362 - 8.366	1660 - 1710					
8.37625 - 8.38675	1718.8 - 1722.2					
8.41425 - 8.41475	2200 - 2300					
12.29 - 12.293	2310 - 2390					
12.51975 - 12.52025	2483.5 - 2500					
12.57675 - 12.57725	2655 - 2900					
13.36 - 13.41	3260 - 3267					
16.42 - 16.423	3332 - 3339					
16.69475 - 16.69525	3345.8 - 3358					
16.80425 - 16.80475	3500 - 4400					
25.5 - 25.67	4500 - 5150					
37.5 - 38.25	5350 - 5460					
73 - 74.6	7250 - 7750					
74.8 - 75.2	8025 - 8500					
108 – 138						

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.



TEST SETUP AND PROCEDURE

Below 30MHz



The setting of the spectrum analyser

RBW	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)
VBW	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)
Sweep	Auto
Detector	Peak/QP/ Average
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013.
- 2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80cm meter above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1m height antenna tower.
- 5. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- 6. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 7. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
- 8. Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30m open field site. Therefore, the sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

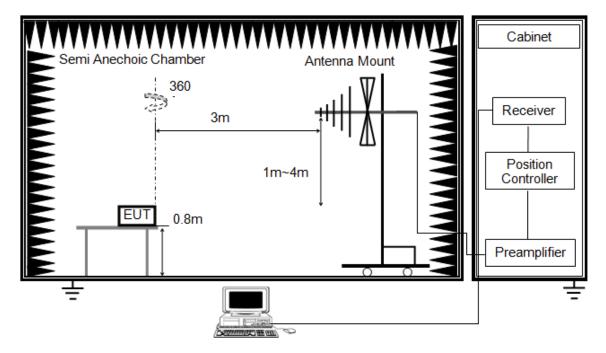
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Below 1G



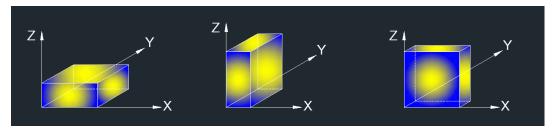
The setting of the spectrum analyser

RBW	120K
VBW	300K
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80cm above ground.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 7. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.



X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

TEST ENVIRONMENT

Temperature	24.8 °C	Relative Humidity	61 %
Atmosphere Pressure	101kPa	Test Voltage	DC 5 V

RESULTS

Note:

Simultaneously transmission condition:

Condition	Technology				
1	NFC	BLE			
2	NFC	BT			
3	NFC	WIFI2.4G			
4	NFC	WIFI5G			

Note:

- 1. The emission of the simultaneous operation has been evaluated and no non-compliance was found.
- 2. We have pre-tested condition 3, and no worst emissions were found.
- 3. Consider the NFC frequency band is far from BT/WIFI frequency band, only the NFC test data recorded in the report.

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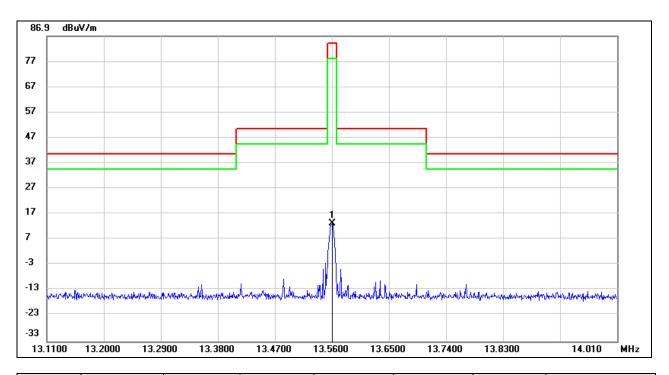
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7.1. FIELD STRENGTH OF INTENTIONAL EMISSIONS

FIELD STRENGTH OF INTENTIONAL EMISSIONS (LOOP ANTENNA FACE ON TO THE EUT)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	13.5609	60.72	-47.43	13.29	84.00	-70.71	peak

Note: 1. Result Level = Read Level + Correct Factor.

2. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

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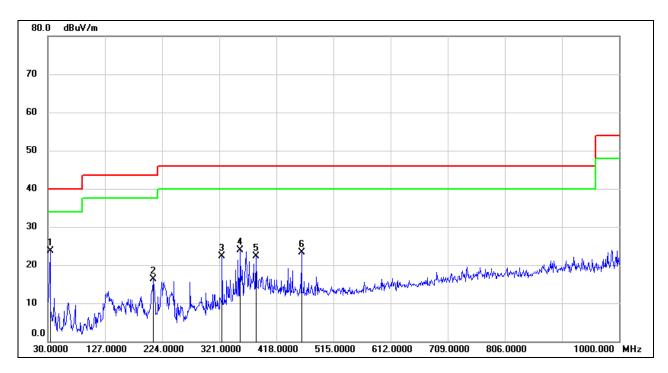
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7.2. SPURIOUS EMISSIONS BELOW 1GHz AND ABOVE 30MHz

SPURIOUS EMISSIONS (HORIZONTAL)

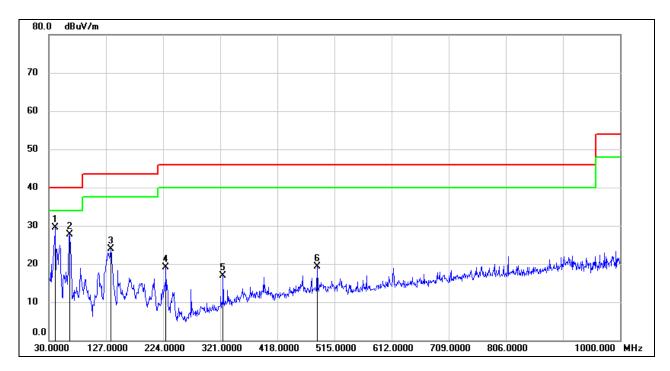


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	33.8800	42.15	-18.37	23.78	40.00	-16.22	QP
2	208.4800	32.56	-16.22	16.34	43.50	-27.16	QP
3	325.8500	35.86	-13.61	22.25	46.00	-23.75	QP
4	356.8900	36.31	-12.45	23.86	46.00	-22.14	QP
5	384.0500	34.79	-12.49	22.30	46.00	-23.70	QP
6	460.6800	34.49	-11.14	23.35	46.00	-22.65	QP

Note: 1. Result Level = Read Level + Correct Factor.

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HARMONICS AND SPURIOUS EMISSIONS (VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	40.6699	48.93	-19.41	29.52	40.00	-10.48	QP
2	64.9200	47.64	-20.01	27.63	40.00	-12.37	QP
3	134.7600	42.62	-18.65	23.97	43.50	-19.53	QP
4	228.8500	36.37	-17.25	19.12	46.00	-26.88	QP
5	325.8500	30.53	-13.61	16.92	46.00	-29.08	QP
6	485.9000	29.90	-10.67	19.23	46.00	-26.77	QP

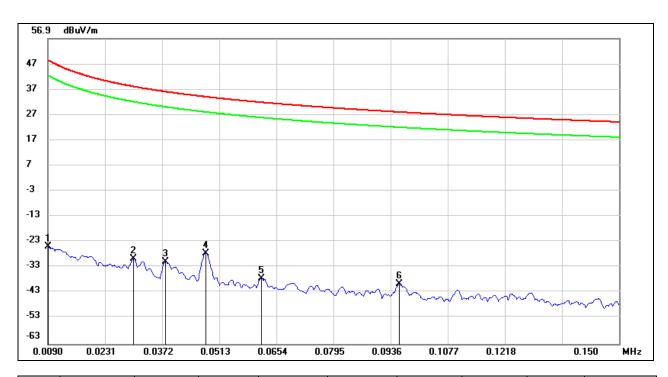
Note: 1. Result Level = Read Level + Correct Factor.

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7.3. SPURIOUS EMISSIONS BELOW 30MHz

SPURIOUS EMISSIONS (LOOP ANTENNA FACE ON TO THE EUT)

9 kHz~ 150 kHz



No.	Frequency	Reading	Correct	FCC	FCC Limit	ISED	ISED	Margin	Remark
				Result		Result	Limit		
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.0090	62.57	-87.36	-24.79	48.43	-76.29	-3.07	-73.22	peak
2	0.0301	58.58	-88.23	-29.65	38.03	-81.15	-13.47	-67.68	peak
3	0.0380	57.62	-88.38	-30.76	36.01	-82.26	-15.49	-66.77	peak
4	0.0479	61.04	-88.56	-27.52	33.99	-79.02	-17.51	-61.51	peak
5	0.0616	50.98	-88.37	-37.39	31.81	-88.89	-19.69	-69.20	peak
6	0.0957	48.89	-88.43	-39.54	27.98	-91.04	-23.52	-67.52	peak

Note: 1. Measurement = Reading Level + Correct Factor (dBuA/m= dBuV/m- 20Log10[120 π] = dBuV/m- 51.5).

- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

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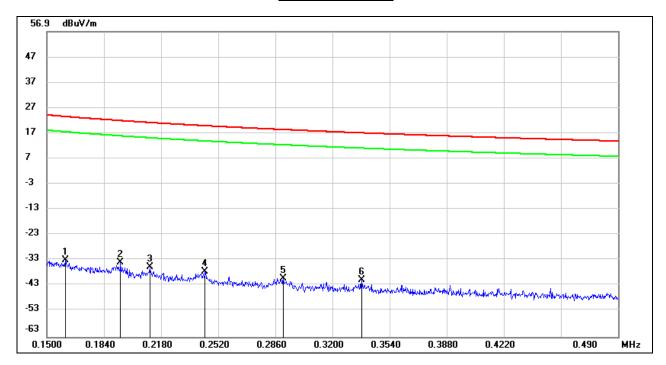
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150 kHz ~ 490 kHz



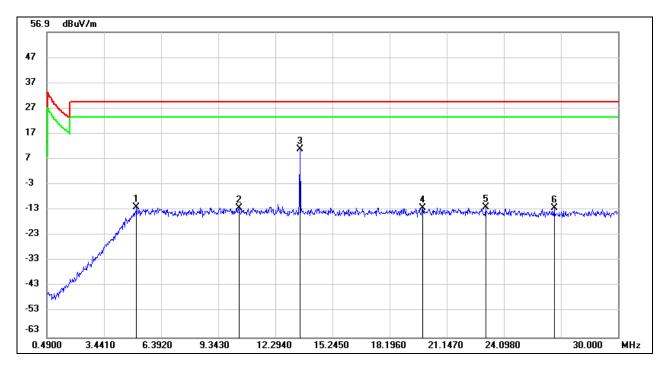
No.	Frequency	Reading	Correct	FCC	FCC Limit	ISED	ISED	Margin	Remark
				Result		Result	Limit		
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.1612	56.10	-89.09	-32.99	23.46	-84.49	-28.04	-56.45	peak
2	0.1938	55.28	-89.06	-33.78	21.86	-85.28	-29.64	-55.64	peak
3	0.2111	53.31	-89.04	-35.73	21.11	-87.23	-30.39	-56.84	peak
4	0.2441	51.62	-89.01	-37.39	19.85	-88.89	-31.65	-57.24	peak
5	0.2907	48.97	-88.98	-40.01	18.33	-91.51	-33.17	-58.34	peak
6	0.3373	48.20	-88.97	-40.77	17.04	-92.27	-34.46	-57.81	peak

Note: 1. Measurement = Reading Level + Correct Factor (dBuA/m= dBuV/m- $20Log10[120\pi] = dBuV/m- 51.5$).

- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

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490kHz ~ 30MHz



No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	5.1230	36.76	-48.58	-11.82	29.54	-63.32	-21.96	-41.36	peak
2	10.4053	35.19	-47.41	-12.22	29.54	-63.72	-21.96	-41.76	peak
3	13.5629	58.42	-47.43	10.99	/	-40.51	/	/	fundamental
4	19.9075	34.47	-46.81	-12.34	29.54	-63.84	-21.96	-41.88	peak
5	23.1536	34.77	-46.71	-11.94	29.54	-63.44	-21.96	-41.48	peak
6	26.6948	34.43	-46.53	-12.10	29.54	-63.60	-21.96	-41.64	peak

Note: 1. Measurement = Reading Level + Correct Factor (dBuA/m= dBuV/m- $20Log10[120\pi] = dBuV/m- 51.5$).

- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
 - 4. About the Fundamental emission test result please refer to section 7.1.

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8. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

Please refer to CFR 47 FCC §15.207 (a).

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

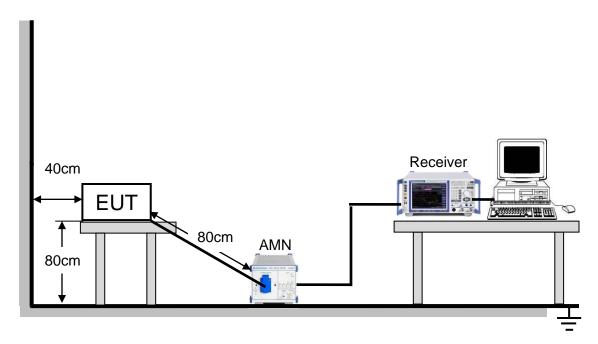
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TEST SETUP AND PROCEDURE



The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

- 1. The testing follows the guidelines in ANSI C63.10-2013.
- 2. The EUT was placed on the top of a rotating table 0.8 meters above the horizontal ground plane and being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- 3. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- 4. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 5. LISN at least 80 cm from nearest part of EUT chassis.
- 6. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.
- 7. The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

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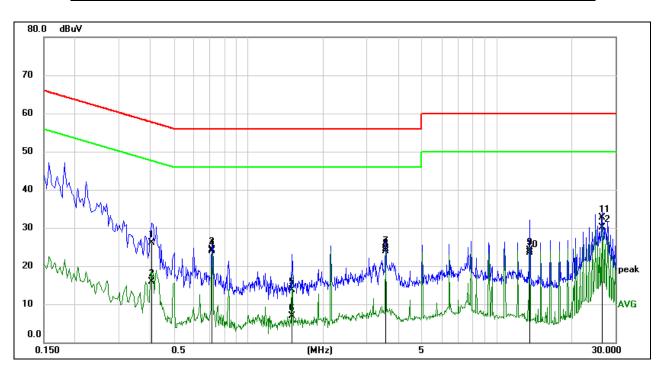


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TEST ENVIRONMENT

Temperature	22.4°C	Relative Humidity	46%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V_60Hz

LINE N RESULTS with modified sample (transmitter terminated into a dummy load)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.4085	16.63	9.53	26.16	57.68	-31.52	QP
2	0.4085	6.35	9.53	15.88	47.68	-31.80	AVG
3	0.7149	14.73	9.50	24.23	56.00	-31.77	QP
4	0.7149	14.47	9.50	23.97	46.00	-22.03	AVG
5	1.5011	4.05	9.57	13.62	56.00	-42.38	QP
6	1.5011	-2.68	9.57	6.89	46.00	-39.11	AVG
7	3.5790	14.92	9.61	24.53	56.00	-31.47	QP
8	3.5790	14.27	9.61	23.88	46.00	-22.12	AVG
9	13.5995	14.48	9.66	24.14	60.00	-35.86	QP
10	13.5995	13.92	9.66	23.58	50.00	-26.42	AVG
11	26.4836	23.07	9.70	32.77	60.00	-27.23	QP
12	26.4836	20.41	9.70	30.11	50.00	-19.89	AVG

Note: 1. Result = Reading +Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

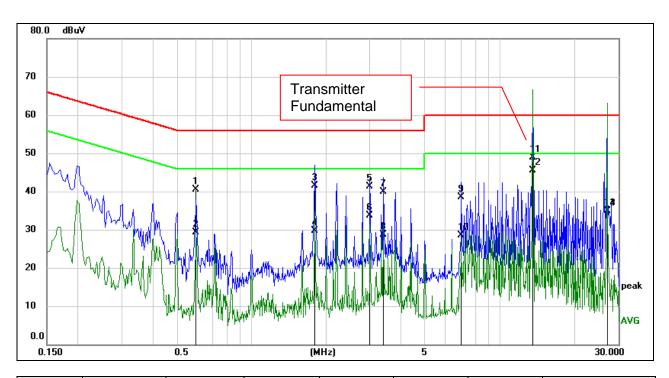
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LINE N RESULTS with unmodified sample (antenna present)



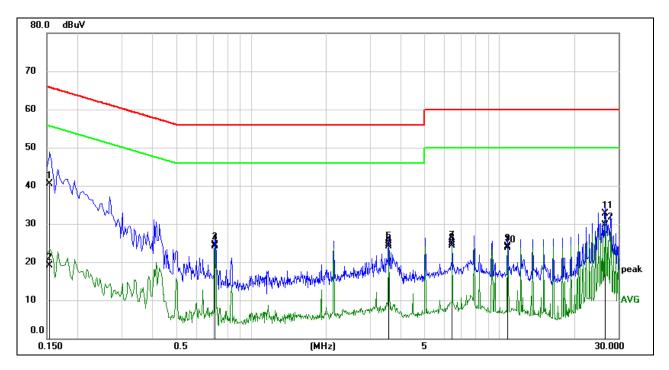
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.6004	30.91	9.50	40.41	56.00	-15.59	QP
2	0.6004	19.72	9.50	29.22	46.00	-16.78	AVG
3	1.8001	31.83	9.60	41.43	56.00	-14.57	QP
4	1.8001	20.05	9.60	29.65	46.00	-16.35	AVG
5	3.0026	31.63	9.62	41.25	56.00	-14.75	QP
6	3.0026	24.05	9.62	33.67	46.00	-12.33	AVG
7	3.4008	30.38	9.61	39.99	56.00	-16.01	QP
8	3.4008	19.10	9.61	28.71	46.00	-17.29	AVG
9	7.0017	28.89	9.63	38.52	60.00	-21.48	QP
10	7.0017	18.86	9.63	28.49	50.00	-21.51	AVG
11	13.5603	39.20	9.66	48.86	60.00	-11.14	QP
12	13.5603	35.77	9.66	45.43	50.00	-4.57	AVG
13	27.1206	25.22	9.71	34.93	60.00	-25.07	QP
14	27.1206	25.14	9.71	34.85	50.00	-15.15	AVG

Note: 1. Result = Reading +Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

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LINE L RESULTS with modified sample (transmitter terminated into a dummy load)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1539	30.84	9.59	40.43	65.79	-25.36	QP
2	0.1539	9.50	9.59	19.09	55.79	-36.70	AVG
3	0.7167	14.82	9.60	24.42	56.00	-31.58	QP
4	0.7167	14.59	9.60	24.19	46.00	-21.81	AVG
5	3.5793	15.08	9.69	24.77	56.00	-31.23	QP
6	3.5793	14.38	9.69	24.07	46.00	-21.93	AVG
7	6.4422	15.07	9.74	24.81	60.00	-35.19	QP
8	6.4422	14.49	9.74	24.23	50.00	-25.77	AVG
9	10.7374	14.42	9.73	24.15	60.00	-35.85	QP
10	10.7374	14.03	9.73	23.76	50.00	-26.24	AVG
11	26.4853	23.04	9.73	32.77	60.00	-27.23	QP
12	26.4853	19.98	9.73	29.71	50.00	-20.29	AVG

Note: 1. Result = Reading +Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

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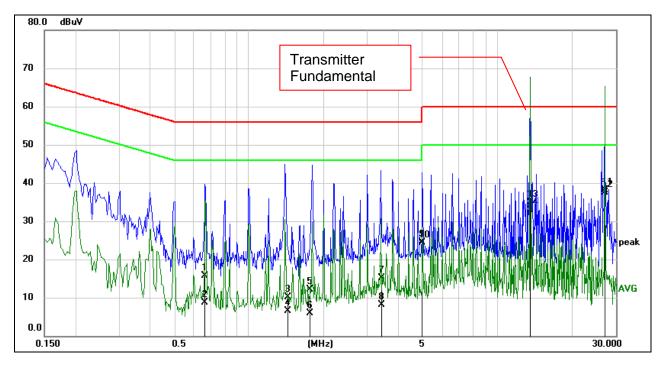
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LINE L RESULTS with unmodified sample (antenna present)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.6654	6.15	9.60	15.75	56.00	-40.25	QP
2	0.6654	-0.84	9.60	8.76	46.00	-37.24	AVG
3	1.4347	0.43	9.62	10.05	56.00	-45.95	QP
4	1.4347	-3.19	9.62	6.43	46.00	-39.57	AVG
5	1.7529	2.55	9.62	12.17	56.00	-43.83	QP
6	1.7529	-3.70	9.62	5.92	46.00	-40.08	AVG
7	3.4437	5.33	9.68	15.01	56.00	-40.99	QP
8	3.4437	-1.66	9.68	8.02	46.00	-37.98	AVG
9	4.9979	14.81	9.72	24.53	56.00	-31.47	QP
10	4.9979	14.50	9.72	24.22	46.00	-21.78	AVG
11	27.1206	28.38	9.74	38.12	60.00	-21.88	QP
12	27.1206	27.78	9.74	37.52	50.00	-12.48	AVG
13	13.5603	25.22	9.76	34.98	60.00	-25.02	QP
14	13.5603	23.17	9.76	32.93	50.00	-17.07	AVG

Note: 1. Result = Reading +Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

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9. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §15.203

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.

RESULTS	
Complies	
	END OF REPORT