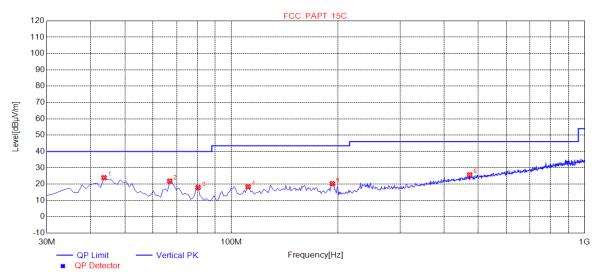


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EUT	VAVA Remote Control	Model Name	VA-SP005
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
	[IVII 12]	[GDH V/III]	[ub]	[GDP V/III]	[GD]	[Citi]	LJ	
1	43.5936	23.93	11.84	40.00	16.07	100	120	Vertical
2	66.8969	21.83	9.75	40.00	18.17	100	130	Vertical
3	80.4905	17.92	7.15	40.00	22.08	100	290	Vertical
4	111.5616	18.29	12.59	43.50	25.21	100	280	Vertical
5	193.1231	20.28	12.38	43.50	23.22	100	70	Vertical
6	472.7628	25.71	21.48	46.00	20.29	100	270	Vertical

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Over=Measurement-Limit.



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Radiated emission above 1GHz

EUT	VAVA Remote Control	Model Name	VA-SP005
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	\/alua Tima
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4804.000	43.41	0.08	43.49	74	-30.51	peak
4804.000	37.94	0.08	38.02	54	-15.98	AVG
7206.000	39.7	2.21	41.91	74	-32.09	peak
7206.000	35.19	2.21	37.4	54	-16.6	AVG
Remark:						
-actor = Anter	nna Factor + Cabl	<u>e Loss – Pre-</u>	amplifier.			

EUT	VAVA Remote Control	Model Name	VA-SP005
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	\/alva Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4804.000	45.76	0.08	45.84	74	-28.16	peak
4804.000	36.27	0.08	36.35	54	-17.65	AVG
7206.000	42.64	2.21	44.85	74	-29.15	peak
7206.000	34.12	2.21	36.33	54	-17.67	AVG
Remark:						
	na Factor + Cabl	a Loss — Pra-	amplifier			



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EUT	VAVA Remote Control	Model Name	VA-SP005
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	\/alua Tima	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type	
4880.000	44.05	0.14	44.19	74	-29.81	peak	
4880.000	38.62	0.14	38.76	54	-15.24	AVG	
7320.000	41.67	2.36	44.03	74	-29.97	peak	
7320.000	35.43	2.36	37.79	54	-16.21	AVG	
Remark:							
Factor = Anter	Factor = Antenna Factor + Cable Loss - Pre-amplifier.						

EUT	VAVA Remote Control	Model Name	VA-SP005
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	\/alica Tima
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4880.000	45.87	0.14	46.01	74	-27.99	peak
4880.000	38.76	0.14	38.9	54	-15.1	AVG
7320.000	42.62	2.36	44.98	74	-29.02	peak
7320.000	36.37	2.36	38.73	54	-15.27	AVG
emark:						



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EUT	VAVA Remote Control	Model Name	VA-SP005
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4960.000	43.52	0.22	43.74	74	-30.26	peak
4960.000	35.73	0.22	35.95	54	-18.05	AVG
7440.000	40.25	2.64	42.89	74	-31.11	peak
7440.000	33.11	2.64	35.75	54	-18.25	AVG
Remark:						
Factor = Anter	nna Factor + Cabl	e Loss – Pre-	amplifier.			

EUT	VAVA Remote Control	Model Name	VA-SP005
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	\/alua Tima
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4960.000	44.67	0.22	44.89	74	-29.11	peak
4960.000	36.26	0.22	36.48	54	-17.52	AVG
7440.000	41.97	2.64	44.61	74	-29.39	peak
7440.000	34.72	2.64	37.36	54	-16.64	AVG
emark:						

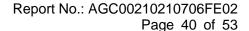
RESULT: PASS

Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin=Emission Level-Limit.

The "Factor" value can be calculated automatically by software of measurement system.



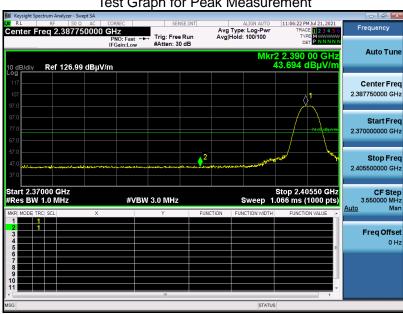
Auto Tune



Test result for band edge emission at restricted bands

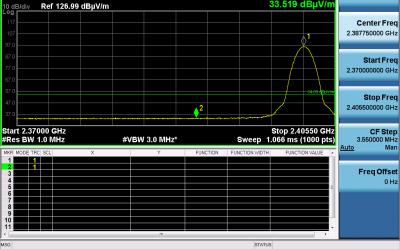
EUT	VAVA Remote Control	Model Name	VA-SP005
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement

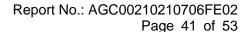




RESULT: PASS

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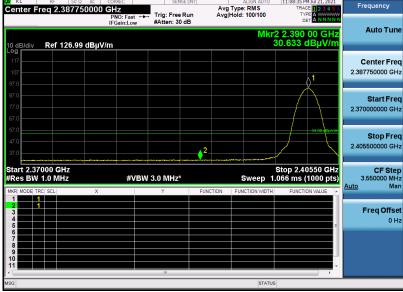


EUT VAVA Remote Control Model Name VA-SP005 25° C **Temperature Relative Humidity** 55.4% 960hPa **Test Voltage** Normal Voltage **Pressure Test Mode** Mode 1 **Antenna** Vertical

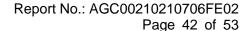
Test Graph for Peak Measurement







RESULT: PASS

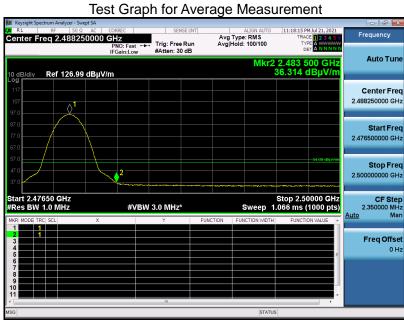




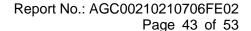
EUT VAVA Remote Control Model Name VA-SP005 25° C **Temperature Relative Humidity** 55.4% 960hPa **Test Voltage** Normal Voltage **Pressure Test Mode** Mode 3 **Antenna** Horizontal

Test Graph for Peak Measurement





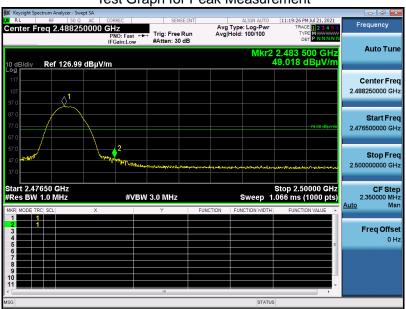
RESULT: PASS

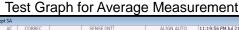




EUT VAVA Remote Control VA-SP005 **Model Name** 25° C **Temperature Relative Humidity** 55.4% 960hPa Normal Voltage **Pressure Test Voltage Test Mode** Mode 3 **Antenna** Vertical

Test Graph for Peak Measurement







RESULT: PASS

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer.



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12. LINE CONDUCTED EMISSION TEST

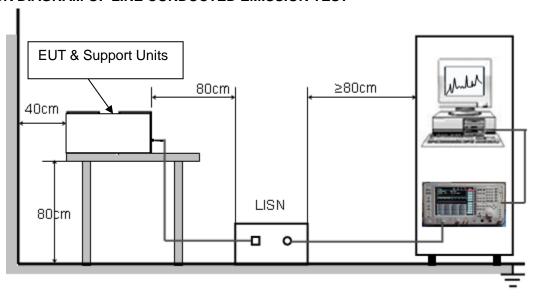
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Francisco	Maximum RF Line Voltage		
Frequency	Q.P.(dBuV)	Average(dBuV)	
150kHz~500kHz	66-56	56-46	
500kHz~5MHz	56	46	
5MHz~30MHz	60	50	

Note: 1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range $0.15\,\mathrm{MHz}$ to $0.50\,\mathrm{MHz}$.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST





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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipment received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 5V power from adapter which received AC120V/60Hz power from a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

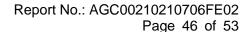
12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less 2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

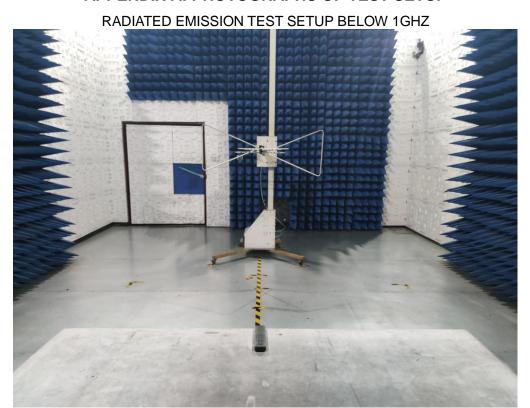
N/A

Note: The EUT is battery powered.

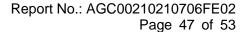




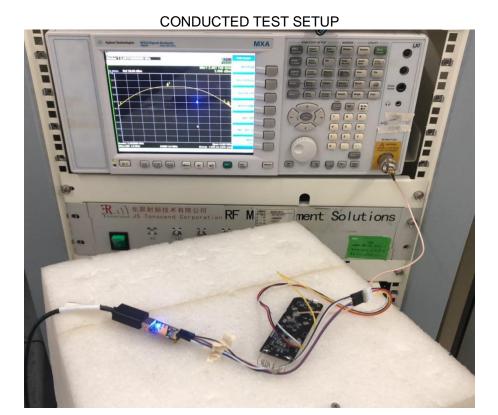
APPENDIX A: PHOTOGRAPHS OF TEST SETUP

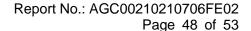












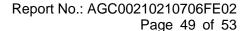


APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT







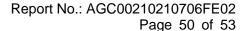


FRONT VIEW OF EUT









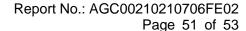


LEFT VIEW OF EUT

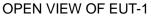




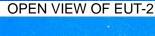








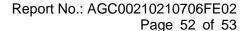






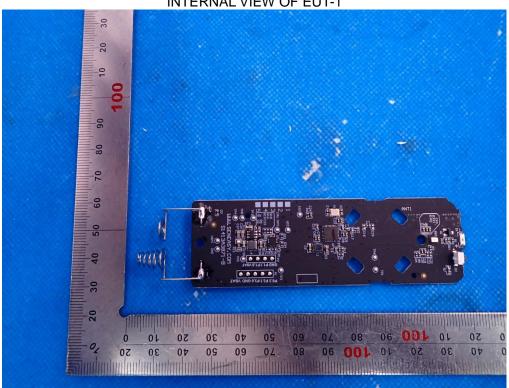
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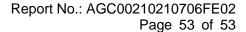




INTERNAL VIEW OF EUT-2 20 0 0 0 08 07 09 10 50 0,9 09 08 06 001 01

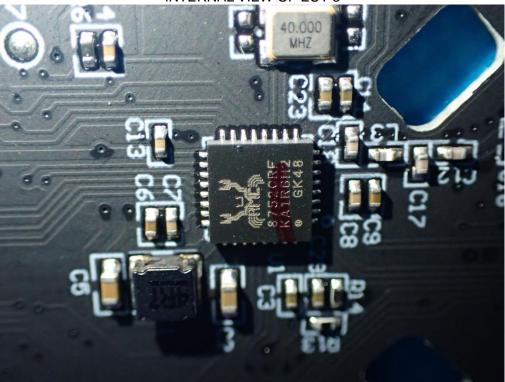
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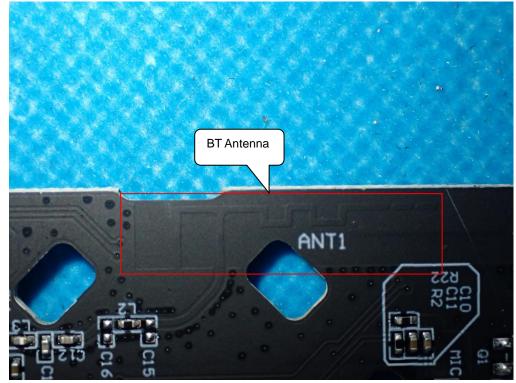




INTERNAL VIEW OF EUT-3



INTERNAL VIEW OF EUT-4



----END OF REPORT----

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- 7.Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
- 8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
- 9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.