

Test Report

Report No.:	MTi230804004-01E1
Date of issue:	2023-08-18
Applicant:	Anker Innovations Limited
Product:	Anker MagGo Wireless Charger (15W, Pad)
Model(s):	A25M0
FCC ID:	2AOKB-A25M0

Shenzhen Microtest Co., Ltd. http://www.mtitest.com

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Test Result Certification					
Applicant:	Applicant: Anker Innovations Limited				
Address:	Room 1318-19, Hollywood Plaza 610 Nathan Road, Mongkok, Kowloon, Hong Kong				
Manufacturer:	Anker Innovations Limited				
Address:	Room 1318-19, Hollywood Plaza 610 Nathan Road, Mongkok, Kowloon, Hong Kong				
Product description					
Product name:	Anker MagGo Wireless Charger (15W, Pad)				
Trademark:	ANKER				
Model name:	A25M0				
Series Model:	N/A				
Standards:	FCC 47 CFR Part 15 Subpart C				
Test method:	ANSI C63.10-2013				
Date of Test					
Date of test:	2023-08-08 to 2023-08-18				
Test result:	Pass				

Test Engineer	:	Yamice Xie		
		(Yanice.Xie)		
Reviewed By	:	leor chen		
		(Leon Chen)		
Approved By	:	Tom Kne		
		(Tom Xue)		



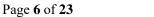
1 General Description

1.1 Description of the EUT

Product name:	Anker MagGo Wireless Charger (15W, Pad)			
Model name:	A25M0			
Series Model:	N/A			
Model difference:	N/A			
Electrical rating:	Input:9V=2.5A Output:15W Max/7.5W/5W			
Accessories:	N/A			
Hardware version:	V2.0.5			
Software version:	V1.1			
RF specification	RF specification			
Operation frequency:	115 kHz – 205 kHz			
Modulation type:	ASK			
Antenna type:	Coil Antenna			

1.2 Description of test modes

No.	Emission test modes			
Mode1	Wireless output(5W)			
Mode2	Wireless output(7.5W)			
Mode3	Wireless output(15W)			
Mode4	stand by			





1.3 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C ~ 35°C
Humidity:	20% RH ~ 75% RH
Atmospheric pressure:	98 kPa ~ 101 kPa

1.4 Description of support units

Support equipment list						
Description	Model	Serial No.	Manufacturer			
Load	1	1	/			
HUAWEI QUICK CHARGE(65W) HW-200200ZP1		JN67LSN7N03451	HUAWEI			
Support cable list						
Description	То					
1	1	1	/			

1.5 Measurement uncertainty

Measurement	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.1dB
Occupied channel bandwidth	±3 %
Radiated spurious emissions (9kHz~30MHz)	4.3dB
Radiated spurious emissions (30MHz~1GHz)	4.7dB
Temperature	±1 °C
Humidity	± 5 %

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



2 Summary of Test Result

No.	Item	Standard	Requirement	Result
1	Antenna requirement	47 CFR Part 15.209	Part 15.203	Pass
2	Conducted Emission at AC power line	47 CFR Part 15.209	47 CFR 15.207(a)	Pass
3	20dB Occupied Bandwidth	47 CFR Part 15.209	47 CFR 15.215(c)	Pass
4	Emissions in frequency bands (below 30MHz)	47 CFR Part 15.209	47 CFR 15.209	Pass
5	Emissions in frequency bands (30MHz - 1GHz)	47 CFR Part 15.209	47 CFR 15.209	Pass



3 Test Facilities and accreditations

3.1 Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.	
Test site location: 101, No.7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xin Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China		
Telephone:	(86-755)88850135	
Fax:	(86-755)88850136	
CNAS Registration No.:	CNAS L5868	
FCC Registration No.:	448573	
IC Registration No.:	21760	
CABID:	CN0093	



4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due		
Conducted Emission at AC power line								
1	EMI Test Receiver	Rohde&schwarz	ESCI3	101368	2023-04-26	2024-04-25		
2	Artificial mains network	Schwarzbeck	NSLK 8127	183	2023-05-05	2024-05-04		
3	Artificial Mains Network	Schwarzbeck	NSLK 8127	1001	2023-05-06	2024-05-05		
		20dB Oc	cupied Bandwid	th	·			
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2023-04-26	2024-04-25		
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051240	2023-04-25	2024-04-24		
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2023-04-25	2024-04-24		
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2023-04-25	2024-04-24		
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2023-04-26	2024-04-25		
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2023-04-26	2024-04-25		
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2023-05-05	2024-05-04		
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2023-04-25	2024-04-24		
9	DC Power Supply	Agilent	E3632A	MY40027695	2023-05-05	2024-05-04		
		Emissions in frequ	ency bands (bel	ow 30MHz)				
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2023-04-26	2024-04-25		
2	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2023-06-11	2025-06-10		
3	Amplifier	Hewlett-Packard	8447F	3113A06184	2023-04-26	2024-04-25		
	Emissions in frequency bands (30MHz - 1GHz)							
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2023-04-26	2024-04-25		
2	TRILOG Broadband Antenna	schwarabeck	VULB 9163	9163-1338	2023-06-11	2025-06-10		
3	Amplifier	Hewlett-Packard	8447F	3113A06184	2023-04-26	2024-04-25		
4	Multi-device Controller	TuoPu	TPMDC	1	1	/		



5 Evaluation Results (Evaluation)

5.1 Antenna requirement

Test Requirement:	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.
Description of the antenna of EUT:	The antenna of the EUT is permanently attached.
Conclusion:	The EUT complies with the requirement of FCC PART 15.203.

6 Radio Spectrum Matter Test Results (RF)

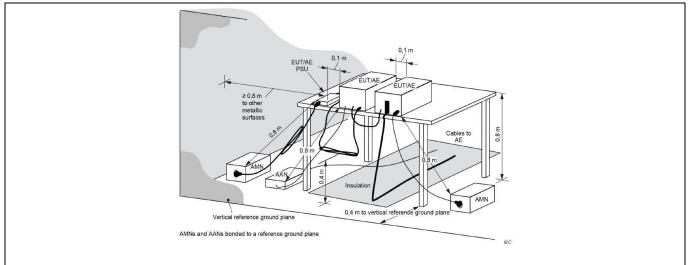
6.1 Conducted Emission at AC power line

Test Requirement:	Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).					
Test Limit:	Frequency of emission (MHz) Conducted limit (dBµV)					
		Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	*Decreases with the logarithm of the frequency.					
Test Method:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power- line conducted emissions from unlicensed wireless devices					

6.1.1 E.U.T. Operation:

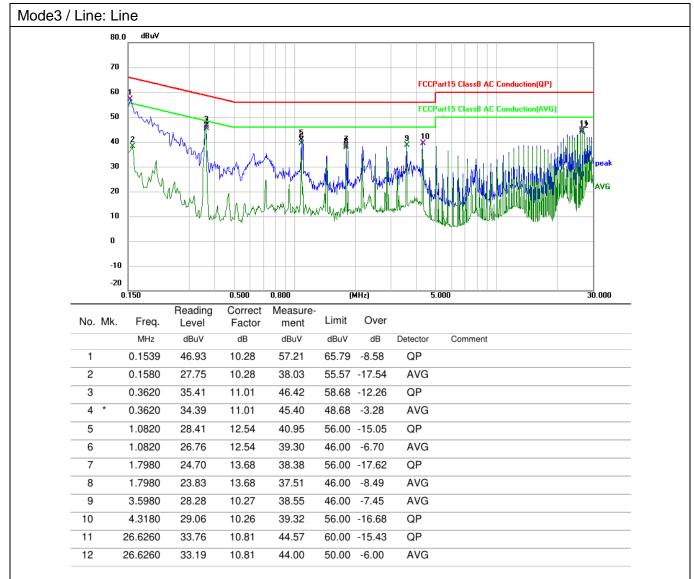
Operating Environment:						
Temperature:	26 °C		Humidity:	41 %	Atmospheric Pressure:	98 kPa
Test mode: Mode1, Mode2, Mode3, Mode4						
Final test mode: All of the listed pre-test mode were tested, only the data of the worst mode (Mode3) is recorded in the report						

6.1.2 Test Setup Diagram:

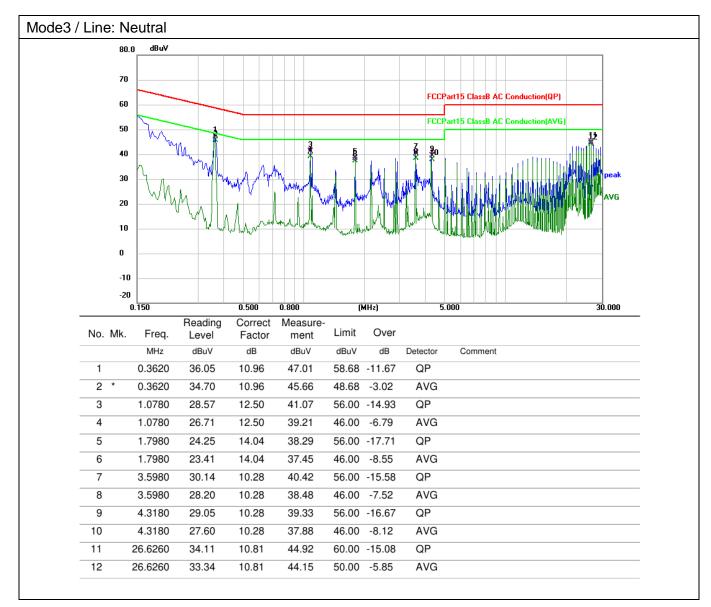




6.1.3 Test Data:









6.2 20dB Occupied Bandwidth

Test Requirement:	Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Limit:	Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	Occupied bandwidth—relative measurement procedure
Procedure:	 a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2. d) Steps a) through c) might require iteration to adjust within the specified tolerances. e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target "-xx dB down" requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value. f) Set detection mode to peak and trace mode to max hold. g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer to the highest level of the displayed trace (this is the reference value). h) Determine the "-xx dB down amplitude" using [(reference value) - xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument. j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-xx dB down amplitude" value, then it shall be as close as possible to this value. The occupied bandwidth using the use of neal plane to the marker is at or slightly below the "-xx dB down amplitude" determined in st
	amplitude. The marker-delta frequency reading at this point is the specified

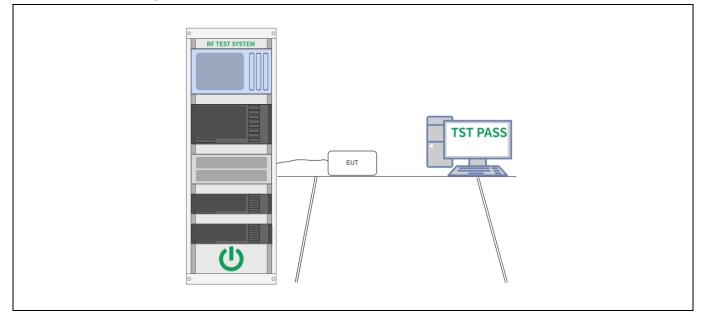


emission bandwidth.
k) The occupied bandwidth shall be reported by providing plot(s) of the
measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the
plot(s).

6.2.1 E.U.T. Operation:

Operating Environment:						
Temperature:	e: 26.7 °C Humidity: 43 % Atmospheric Pressure: 100 kPa					
Test mode: Mode1, Mode2			e1, Mode2, I	Mode3		
Final test mode: All of the listed pre-test mode were tested, only the data of the worst mode (Mode3) is recorded in the report				of the worst mode		

6.2.2 Test Setup Diagram:





6.2.3 Test Data:

Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.

Frequency kHz	20 dB occupied bandwidth Hz	99% occupied bandwidth Hz
127.955	749	636
Argient Spectrum Analyzer - Occupied BW OM RL RF S0.9 DC Center Freq 127.955 kHz 10 dB/div Ref -20.00 dBm Log -300 -400 -500 -600 -600 -600 -700 -600 -700 -600 -700 -600 -700 -600 -700 -600 -700 -600 -700 -600 -700 -7	SENSE:INT Center Free; 127.955 kHz Trig: Free Run #Atten: 6 dB #Gain:Low #Atten: 6 dB #WBW 1 kHz States States S	Freq Offset 0 % 0 Hz



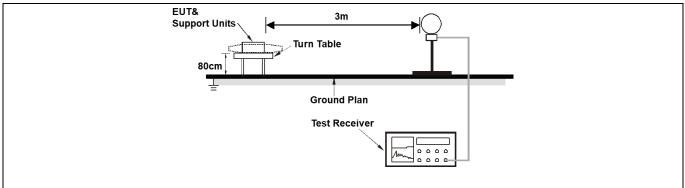
6.3 Emissions in frequency bands (below 30MHz)

Test Requirement:	47 CFR 15.209		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measuremen t distance (meters)
	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
	Above 960	500	3
	sections of this part, e.g §§ 15.231 and 15.241. As shown in § 15.35(b) limits in paragraphs (a) However, the peak field maximum permitted av any condition of modula (b)of this section, the p	hin these frequency bands is g., , for frequencies above 1000 and (b)of this section are bas I strength of any emission sh erage limits specified above ation. For point-to-point opera eak field strength shall not ex ters along the antenna azimu) MHz, the field strength sed on average limits. hall not exceed the by more than 20 dB under ation under paragraph xceed 2500
Test Method:	Radiated emissions tes	•	
Procedure:	ANSI C63.10-2013 sec	tion 6.6.4	

6.3.1 E.U.T. Operation:

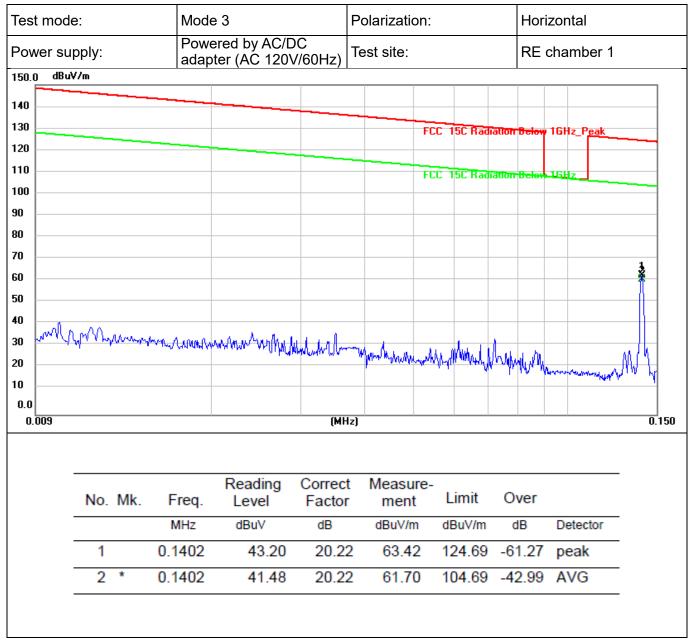
Operating Environment:							
Temperature:	23.8 °C		Humidity:	59 %		Atmospheric Pressure:	100 kPa
Test mode: Mode1, Mode2, Mode3, Mode4							
Final test mode	Final test mode: All of the listed pre-test mode were tested, only the data of the worst mode (Mode3) is recorded in the report					of the worst mode	

6.3.2 Test Setup Diagram:





6.3.3 Test Data:





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Test mode: Power supply:		Mode	Mode 3		Polarization:			Vertical		
		Powe adap	ered by AC/D oter (AC 120\)C //60Hz) Te	est site:		RE d	hamber 1		
140.0 dE	3uV/m		,	, i						
130										
120										
10										
00										
o										
o										
D					FC	C 15C Radia	ation Below	IGHz_Peak		
ם										
	hunder and the second	A 3	4 5 × 1	c						
	A CONTRACTOR OF A	man manufally and the state	The market of the second se	WANN ANTHINK	4. Monthly to also allow	Mannahl	nu h			
				1 1 1 1 1 1	W		- How and a start	why why have	worked proved	
10										
0.150		0.500	0.800	(MHz)		5.000			30.0	
			Reading	Correct	Measure-					
	No. Mk.	Freq.	Level	Factor	ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector		
	1	0.2986	19.34	20.31	39.65	118.11	-78.46	peak		
	2	0.2986	17.29	20.31	37.60	98.11	-60.51	AVG		
	3	0.5611	15.54	20.39	35.93	72.63	-36.70	QP		
	4	0.6973	15.34	20.45	35.79	70.74	-34.95	QP		
	5 *	0.9891	17.33	20.57	37.90	67.72	-29.82	QP		
	6	1.7437	9.75	20.63	30.38	69.50	-39.12	QP		
	0									



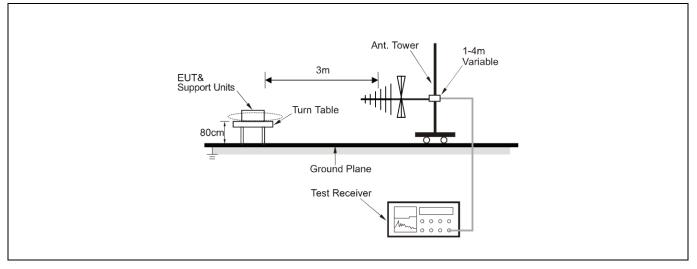
6.4 Emissions in frequency bands (30MHz - 1GHz)

Test Requirement:	47 CFR 15.209					
Test Limit:	Frequency (MHz)	Field strength	Measuremen			
		(microvolts/meter)	t distance			
	0.009-0.490		(meters) 300			
	0.490-1.705	2400/F(kHz)	30			
	1.705-30.0	24000/F(kHz) 30	30			
	30-88	100 **	3			
	88-216	150 **	3			
	216-960	200 **	3			
	Above 960	500	3			
		n paragraph (g), fundamenta				
	sections of this part, e.g §§ 15.231 and 15.241. As shown in § 15.35(b) limits in paragraphs (a) However, the peak field maximum permitted av any condition of modula	, for frequencies above 1000 and (b)of this section are bas I strength of any emission sh erage limits specified above ation. For point-to-point opera) MHz, the field strength sed on average limits. all not exceed the by more than 20 dB under ation under paragraph			
	(b)of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.					
Test Method:	Radiated emissions tes	sts				
Procedure:	ANSI C63.10-2013 sec	tion 6.6.4				

6.4.1 E.U.T. Operation:

Operating Environment:						
Temperature:	22.5 °C		Humidity:	43 %	Atmospheric Pressure:	99 kPa
Test mode: Mode1, Mode2, Mode3, Mode4						
Final test mode:All of the listed pre-test mode were tested, only the data of the worst mode (Mode3) is recorded in the report				of the worst mode		

6.4.2 Test Setup Diagram:





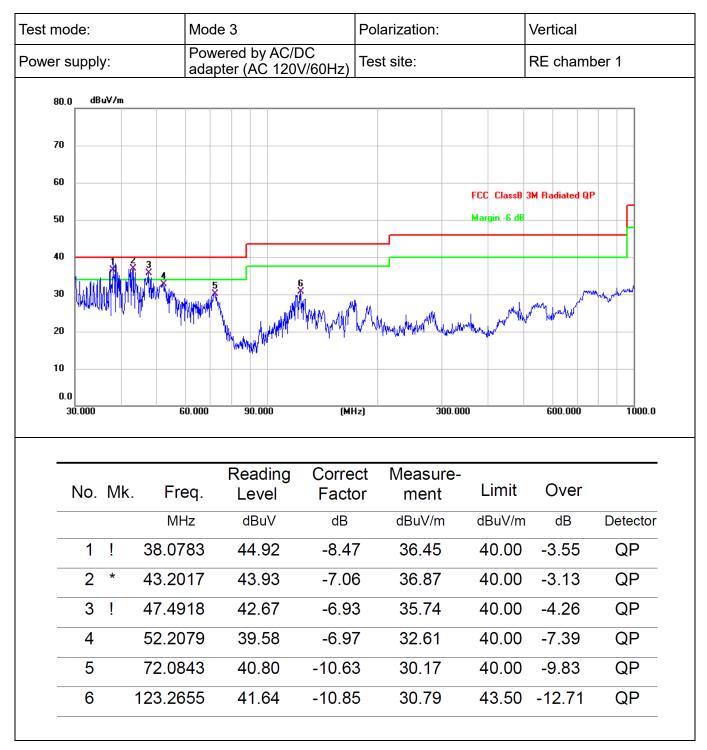
6.4.3 Test Data:

Test mode:	Mode	3	Polarization	Polarization: Test site:		Horizontal RE chamber 1	
Power supply:	Power adapte	ed by AC/DC er (AC 120V/60H	Iz) Test site:				
80.0 dBu∀/m							
70							
60				FCC ClassB	3M Radiated QP		
50				Margin -6 dB			
40					6 ×		
30 1 2	3			5		moning	
20	My Handrey Mar 2	where a server the the server of	MM Mutant	have the the have we have	North New Aur		
10	v	AMANALY TO CONTRACT Y					
0.0 30.000	60.000	90.000	(MHz)	300.000	600.000	1000.0	
No. Mk.	Freq.	•	rrect Measu actor men	1	Over		
No. Mk.		Level Fa		t Limit		Detector	
	Freq.	Level Fa	actor men	t Limit m dBuV/m		Detector QP	
1 38	Freq. MHz	Level Fa dBuV c 37.31 -8	actor men dB dBuV/r	t Limit m dBuV/m 4 40.00	dB -11.16		
1 38 2 4	Freq. MHz 8.0782	Level Fa dBuV c 37.31 -8 35.22 -6	actor men dB dBuV/r 8.47 28.84	t Limit m dBuV/m 4 40.00 2 40.00	dB -11.16	QP	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Freq. MHz 8.0782 7.1598	Level Fa dBuV c 37.31 -8 35.22 -6 38.82 -10	actor men dB dBuV/r 8.47 28.84 6.90 28.32	t Limit m dBuV/m 4 40.00 2 40.00 5 40.00	dB -11.16 -11.68	QP QP	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Freq. MHz 8.0782 7.1598 2.5916	Level Fa dBuV c 37.31 -8 35.22 -6 38.82 -10 41.15 -9	actor men dB dBuV/r 3.47 28.84 5.90 28.32 0.77 28.05	t Limit m dBuV/m 4 40.00 2 40.00 5 40.00 9 43.50	dB -11.16 -11.68 -11.95	QP QP QP	



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Photographs of the test setup

Refer to Appendix – Test setup Photos



Photographs of the EUT

Refer to Appendix - EUT Photos

----End of Report----