

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC179895

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FCC Radio Test Report FCC ID: 2AXWO-M900

Report No. : TB-FCC179895

Applicant Doors Korea Co., Ltd

Equipment Under Test (EUT)

Miracle, m M900 UHF 2channal wireless microphone **EUT Name**

Model No. M900

Serial Model No. M920, M930

Brand Name 10 Miracle, m

20210409-31-01 & 20210409-31-02 Sample ID

2021-04-19 **Receipt Date**

Test Date 2021-04-20 to 2021-06-15

Issue Date 2021-06-22

Standards FCC Part 15, Subpart C 15.249

ANSI C63.10: 2013 **Test Method**

Conclusions **PASS**

In the configuration tested, the EUT complied with the standards specified above,

The EUT technically complies with the FCC requirements

Warle-W

Test/Witness Engineer

IVAN SV Laydai. **Engineer Supervisor**

Approved & Authorized

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TB-RF-074-1.0



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Revision History

Report No.	Version	Description	Issued Date
TB-FCC179895	Rev.01	Initial issue of report	2021-06-22
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1. General Information about EUT

1.1 Client Information

Applicant		Doors Korea Co., Ltd
Address	:	1F, 27, Mangu-ro 81-gil, Jungnang-gu, Seoul, South Korea
Manufacturer	:	DONGGUAN TUCCI ELECTRONIC TECHNOLOGY CO., LTD
Address		4th FL,A BLD, No 7,Longtian Road, Qinghutou Community, Tangxia Town, Dongguan City, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	Miracle,m M900 UHF 2channal wireless microphone					
Model No.)	M900, M920, M930	M900, M920, M930				
Model Difference : All these models are identical in the same PCB, layout a circuit, the only difference is model name.							
4000		Operation Frequency:	905.1~924.9 MHz				
		Number of Channel:	Please see the note (2)				
Product Description	:	Output power:	80.01 dBuV/m@3m Peak				
Description		Antenna Gain:	-0.96dBi Internal Antenna				
		Modulation Type:	FSK				
Power Rating	:	Input: 2*1.5 AA Battery					
Software Version		V1.2					
Hardware Version		V2.0					
Connecting I/O Port(S)	:	Please refer to the User's Manual					

Note:

(2) Channel List:

⁽¹⁾ For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



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Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	905.1	15	918.4
02	905.6	16	918.9
03	906.1	17	919.4
04	906.6	18	919.9
05	907.1	19	920.4
06	907.6	20	920.9
07	908.1	21	921.4
08	908.6	22	921.9
09	909.1	23	922.4
10	909.6	24	922.9
11	910.1	25	923.4
12	910.6	26	923.9
13	911.1	27	924.4
14	911.6	28	924.9





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1.3 Block Diagram Showing the Configuration of System Tested

TX Mode

EUT	

1.4 Description of Support Units

	Equipment Information						
Name	Model	FCC ID/SDOC Manufacturer		Used "√"			
	(U) 777	Williams.	J Am				



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1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

zepesare.j.							
For Conducted Test							
Final Test Mode	Description						
	For Radiated Test						
Final Test Mode	Final Test Mode Description						
Mode 1	Mode 1 TX Mode(905.1MHz/918.4MHz/924.9MHz)						

Note:

For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

- (1) According to ANSI C63.10 standards, the measurements are performed at the highest, middle, lowest available channels.
- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a portable unit; it was pre-tested on the positioned of each 3 axis, X-plane, Y-plane and Z-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

1.6 Description of Test Software Setting

During testing channel & Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of RF mode.

Test Software Version	Control by pressing the button			
Frequency	905.1 MHz	918.4MHz	924.9MHz	
FM	2	2	2	



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1.7 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty (U _{Lab})
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	±3.50 dB ±3.10 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	±4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	±4.50 dB
Radiated Emission	Level Accuracy: Above 1000MHz	±4.20 dB

1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1/F.,Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.FCC Accredited Test Site Number: 854351. Designation Number: CN1223.

IC Registration No.: (11950A)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A. CAB identifier: CN0056.



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2. Test Summary

FCC Part 15 Subpart C (15.249)					
Standard Section	Test Item	Judgment	Remark		
15.203	Antenna Requirement	PASS	N/A		
15.205	Restricted Bands	PASS	N/A		
15.207	AC Power Conducted Emission	N/A	N/A		
15.249 &15.209	Radiated Spurious Emission	PASS	N/A		
15.215(C)	20dB Bandwidth	PASS	N/A		



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3. Test Equipment

Conducted Emission	Test				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 06, 2020	Jul. 05, 2021
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 06, 2020	Jul. 05, 2021
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 06, 2020	Jul. 05, 2021
LISN	Rohde & Schwarz	ENV216	101131	Jul. 06, 2020	Jul. 05, 2021
Radiation Emission T	est				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 06, 2020	Jul. 05, 2021
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 06, 2020	Jul. 05, 2021
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jul. 06, 2020	Jul. 05, 2021
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar.01, 2020	Feb. 28, 2022
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.01, 2020	Feb. 28, 2022
Horn Antenna	ETS-LINDGREN	BBHA 9170	BBHA9170582	Mar.01, 2020	Feb. 28, 202
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jul. 07, 2020	Jul. 06, 2021
Pre-amplifier	Sonoma	310N	185903	Feb. 25, 2021	Feb. 24, 2022
Pre-amplifier	HP	8449B	3008A00849	Feb. 25, 2021	Feb. 24, 2022
Cable	HUBER+SUHNER	100	SUCOFLEX	Feb. 25, 2021	Feb. 24, 2022
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 06, 2020	Jul. 05, 2021
Antenna Conducted I	Emission				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 06, 2020	Jul. 05, 2021
Spectrum Analyzer	Rohde & Schwarz	ESPI	100010/007	Jul. 06, 2020	Jul. 05, 2021
MXA Signal Analyzer	Agilent	N9020A	MY49100060	Sep. 11, 2020	Sep. 10, 202
Vector Signal Generator	Agilent	N5182A	MY50141294	Sep. 11, 2020	Sep. 10, 202
Analog Signal Generator	Agilent	N5181A	MY50141953	Sep. 11, 2020	Sep. 10, 202
THE PARTY OF THE P	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO26	Sep. 11, 2020	Sep. 10, 202
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO29	Sep. 11, 2020	Sep. 10, 202
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO31	Sep. 11, 2020	Sep. 10, 202
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO33	Sep. 11, 2020	Sep. 10, 202



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4. Conducted Emission Test

4.1 Test Standard and Limit

4.1.1Test Standard FCC Part 15.207

4.1.2 Test Limit

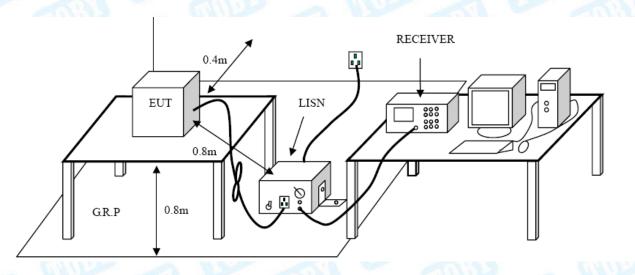
Conducted Emission Test Limit

Fraguenov	Maximum RF Line	e Voltage (dBμV)
Frequency	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2 Test Setup



4.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/50uH of coupling impedance for the measuring instrument.

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.



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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.

LISN is at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

4.4 EUT Operating Mode

Please refer to the description of test mode.

4.5 Test Data

The EUT is powered by AA battery, no requirement for this test item.

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5. Radiated Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard FCC Part 15.209

5.1.2 Test Limit

Radiated Emission Limit (9kHz~1000MHz)

Frequency (MHz	Field Strength (microvolt/meter)	Measurement 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

Radiated Emission Limit (Above 1000MHz)

Frequency	(dBuV/m)(at 3 M)					
(MHz)	Peak	Average				
Above 1000	74	54				

Note:

(1) The tighter limit applies at the band edges.

(2) Emission Level(dBuV/m)=20log Emission Level(Uv/m)

Limits of radiated emission measurement (15.249)

FCC Part 15 (15.2	49), Subpart C
Limit	Frequency Range (MHz)
Field strength of fundamental 50000 μV/m (94 dBμV/m) @ 3 m	902.1~927.9
Field strength of harmonics 500 μV/m (54 dBμV/m) @ 3 m	Below 902 and Above 928

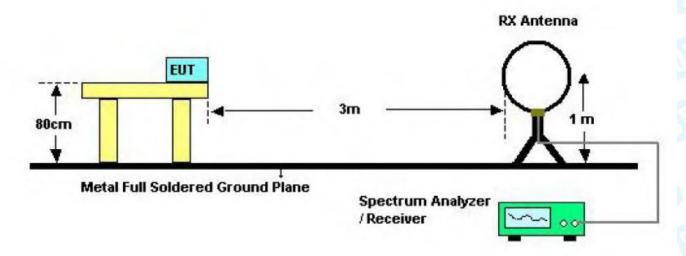
Restricted bands requirement for equipment operating in 902MHz to 928 MHz (15.249)



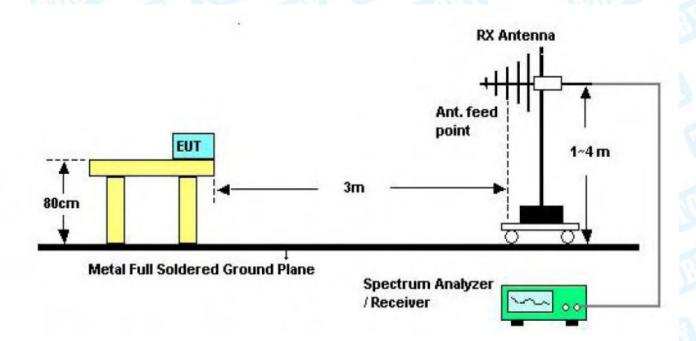
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Restricted Frequency Band (MHz)	(dBuV/m)(at 3 M)
902~928	Attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in 15.209, whichever is the lesser attenuation

5.2 Test Setup



Bellow 30MHz Test Setup

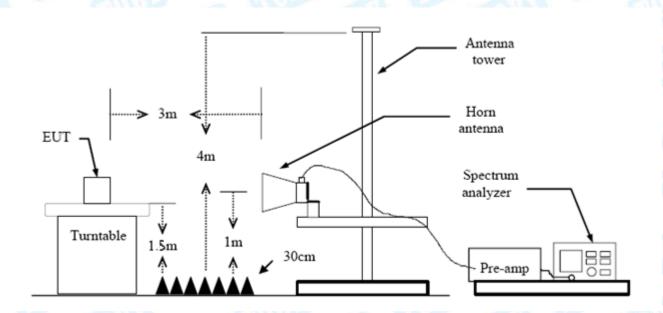


Below 1000MHz Test Setup





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Above 1GHz Test Setup

5.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) 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.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.



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5.4 EUT Operating Condition

The EUT was set to Continual Transmitting in maximum power, and new batteries are used during testing.

5.5 Test Data

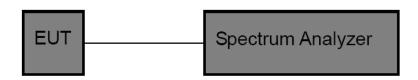
Please refer to the Attachment A.



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6. Bandwidth Test

6.1 Test Setup



6.2 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting:

Bandwidth: RBW=100 kHz, VBW=300kHz.

(3) The bandwidth is measured at an amplitude level reduced 20dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst –case (i.e the widest) bandwidth.

6.3 EUT Operating Condition

The EUT was set to continuously transmitting for the Bandwidth Test.

6.4 Test Data

Please refer to the Attachment B.



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7. Antenna Requirement

7.1 Standard Requirement

7.1.1 Standard FCC Part 15.203

7.1.2 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. 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.

7.2 Antenna Connected Construction

The gains of the antenna used for transmitting is 2 dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

7.3 Result

The EUT antenna is a Dipole Antenna. It complies with the standard requirement.

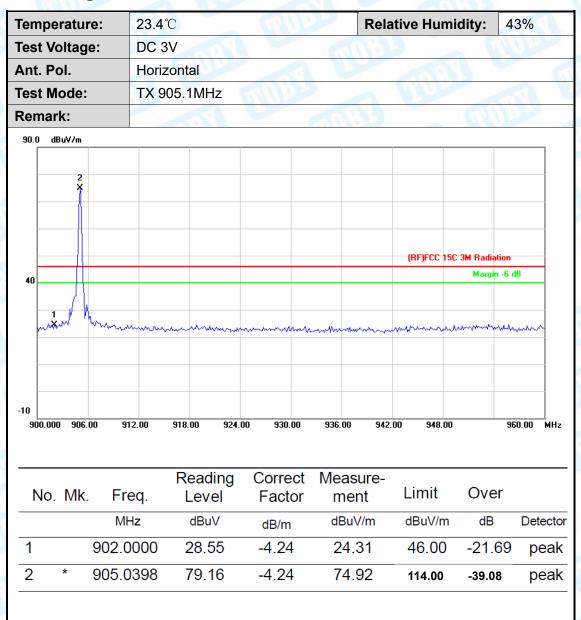
	Antenna Type
	⊠Permanent attached antenna
The same	☐Unique connector antenna
The state of the s	☐Professional installation antenna



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Attachment A-- Radiated Emission Test Data

Field Strength of the Fundamental







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	perature	: 23.4°	C		Rela	ative Hum	idity: 4	13%
Гest	t Voltage:	DC 3	V	133			~A '	مروا
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			Reading	Correct	Measure-			
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Temperature:			23.4	$^{\circ}\mathbb{C}$						Rela	ative F	lumi	dity:	43%	
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				Re	adir	ng	Corre	ct	Mea	sure					
No.	Mk.	Fre	eq.	L	eve	Ī	Facto	or	me	ent	Lir	nit	Over	•	
		MH	z	C	dBuV	,	dB/m		dBı	uV/m	dB	uV/m	dB	Det	ecto
			400	7	1.99		-4.26		67	7.73	11	14.00	-46.27	p	eak
1	*	918.4	400	- 1	1.33										
1	*	918.4	400		1.98										
1	*	918.4	400		1.33										
1	*	918.4	400	- 1	1.33										





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emperature:	23.4℃		Relat	ive Humid	ity:	13%
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	1					
	×					
				(RF)FCC 150	3M Radiation	
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0						
897.200 903.20	909.20 915.20 92	1.20 927.20	933.20 939	945.20	!	957.20 MI
	Dooding	Correct	Measure-			
No. Mk. F	Reading req. Level	Factor	ment	Limit	Over	
N	1Hz dBuV	dB/m	dBuV/m	dBuV/m	dB	Detecto
1 * 918.	3200 76.75	-4.26	72.49	114.00	-41.51	peak





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Tem	peratu	re:	23.4	\mathcal{C}		a N	1	F	Relati	ve Hu	ımid	ity:	43%	
Test	t Voltag	je:	DC	3V		33		6		1300		A	103	
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Rem	nark:			611			_ 1	117		2		x A	1777	
90.0	dBuV/m													_
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												Ĭ		
										(RF)F	CC 150	3M Radi		
40												Margi	in -6 dB	\dashv
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N	o. Mk	. Fr	eq.	Lev	el e	Facto	r	men	t	Lim	it	Ove	er	
		MI	Ηz	dBı	ιV	dB/m	(dBuV	/m	dBu\	//m	dB	De	etecto
1	*	924.8	3799	72.	60	-4.25		68.3	5	114	4.00	-45.6	55 F	eak
2		928.0	0000	26.	45	-4.26		22.1	9	46.	00	-23.	81 p	eak
Emi	ssion l	_evel=	Read	Level-	- Corr	ect Fact	tor							





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Ten	mperature: 23.4°C Relative Humid					idity:	43%	
Tes	t Volta	ge: DC	C 3V			1	A	All h
4nt	t. Pol.	Ve	rtical		NI	Pira I	W	
Tes	t Mode	: TX	(924.9MHz	I PHILL				ARY.
Rer	mark:		(Inter-		TO THE		a W	
90.0) dBuV/m							
							1 ¥	
						(BE)ECC 1	5C 3M Radiati	ion
40						(111)	Margin	
40								
							ul II	2
	humm	man	Manneyman	Manyon	more and the second	man many	remode 1	M. Harry
-10								
- L	71.600 877	.60 883.60	889.60 89	901.60	907.60 91	3.60 919.60	0	931.60 MH
			Reading	Correct	Measure-			
Ν	lo. Mk.	Freq.	Level	Factor	ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detecto
1	*	924.8799		-4.25	66.94	114.00	-47.06	peak
								•
2		928.0000	26.54	-4.26	22.28	46.00	-23.72	2 peak





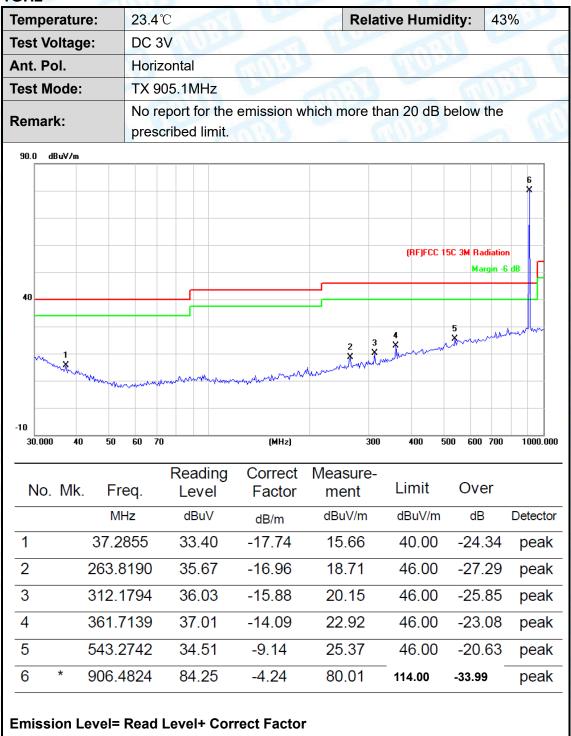
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9 KHz to 30 MHz

From 9 KHz to 30 MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

30MHz-1GHz







Page: 26 of 39

Temperature:	23.4℃		Relativ	ve Humidity:	43%
Test Voltage:	DC 3V				
Ant. Pol.	Vertical				
Test Mode:	TX 905.1MHz	eanly))	- CIND	
Remark:	No report for the	emission whi	ch more tha	n 20 dB below	the
Neiliai K.	prescribed limit.		William		China Control
90.0 dBuV/m					
					6 X
				(RF)FCC 15C 3M R	adiation
				м	argin -6 dB
40					
			•		
1 X 2 2					emmendance.
M			mm Xmmm	White was the same of the same	
. why	hamman mana mana	May phonon	Suc. x		
-10					
30.000 40	50 60 70 80	(MHz)	300	400 500 600	700 1000.00
	Reading		/leasure-	Limit On	
No. Mk.	Freq. Level	Factor	ment	Limit Ov	er
	MHz dBuV	dB/m	dBuV/m	dBuV/m d	B Detecto
1 3	1.2893 38.54	-13.91	24.63	40.00 -15	i.37 peak
2 3	7.5479 37.22	-17.85	19.37	40.00 -20).63 peak
3 4	5.0583 39.35	-21.44	17.91	40.00 -22	
	8.3264 34.14	-17.07	17.07		3.93 peak
	0.9737 33.98	-8.42	25.56).44 peak
6 * 90	6.4824 76.08	-4.24	71.84	114.00 -42.	
					•
	el= Read Level+ Cor		71.04		рсс





Page: 27 of 39

Tem	nper	atuı	re:		23.4	1 ℃							Re	lativ	ve I	lum	idit	y:	43	%		
Test	t Vo	ltag	e:		DC	3V													7	AT	N	
4nt	. Po	I.			Hor	izor	ntal	an'		9			D	W		7		a				
Test	t Mo	de:			TX !	918	3.4N	1Hz		1						67	N					
Ren	nark				No	rep	ort f	for th	e em	nissior	า whi	ch n	nore	tha	n 2	0 dE	be	low	the			j
IVEII	iiai n				pres	scril	bed	limit									A					
90.0	dBu	V/m																		_		
																					6 X	
															0	RF)FCC	15C	3M R	adiatio	n		
-																		Ma	argin -(i dB	H	
40				<u> </u>	 							_									Ш	
-																						
	1												3	4 ×	5 X		www.	~~~	www	WY.	,,,,,,,	
~	mx	huma									40.00	2 X,	Ž.	Jhr.	سماله	~~~~						
		-	March	who	mym	~~~	mayor	My	Www	Manney	7 W V V											
-																						
-10 30	.000	40		50	60 7	70				(MHz	1			300		00	500	600	700	10	000.0	nn
																						_
	اما	N ALC		_r_	~	F		ding		orred			sure	9-	Lir	nit		Ove	or.			
	۱o.	IVIK.		Fre	•			vel		Facto)f		ent									
				MH				₿uV		dB/m			ıV/m			uV/n		dE		Det		
1			35	5.00	148		34	.22	'	16.67	<i>'</i>	17	.55		4(0.00		-22	.45	р	ea	k
2			21	6.78	328		33	.90		19.04	ļ	14	.86		46	3.00		-31	.14	p	ea	k
3			26	3.8	190		35	.80		16.96	}	18	.84		46	5.00		-27	.16	р	ea	k
4			31	2.17	794		37	.34		15.88	3	21	.46		46	3.00		-24	.54	р	ea	k
5			36	1.7	139		37	.02		14.09)	22	.93		46	5.00) .	-23	.07	р	ea	k
		t	91					.14		4.25		78				.00		35.1 ⁻			ea	L





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Ten	nperatur	e:	23.4°	°C	V.		B	Relati	ve Hum	idity:	439	%	
Tes	t Voltage	e:	DC 3	V		a W					1	AM!	
Ant	. Pol.		Vertic	cal	100			a_{MD}	1	-		منول	
Tes	t Mode:		TX 9	18.4N	lHz		V)		GI.				
Rer	nark:			eport f		emission w	hich m	ore tha	n 20 dB	below	the	Br	
90.0) dBu∀/m												
40	1 1	Mandan	numan		Low-Market Market Marke	2	3	Market	(RF)FCC	15C 3M F M	adiation	dB	
-10 30	0.000 40	50	60 70	80		(MHz)		300	400	500 60	0 700	1000.0)00
	No. Mk	. Fr	eq.		ding vel	Correct Factor	Mea me		Limit	Ov	er		_
		MI	Ηz	dE	₿uV	dB/m	dΒι	ıV/m	dBuV/n	n d	В	Detect	or
1		31.7	313	38	.32	-14.25	24	.07	40.00	-15	5.93	peal	K
2		176.8	3878	34	.20	-20.23	13	.97	43.50	-29	9.53	peal	k
3	1	232.5	5318	34	.05	-18.17	15	.88	46.00	-30).12	peal	k
4		550.9	9480	33	.41	-8.93	24	.48	46.00	-21	1.52	peal	k
5		670.4	1893	33	.39	-7.48	25	.91	46.00	-20	0.09	peal	K
6	*	919.2	2866	74	.38	-4.25	70	.13	114.00	-43.8	37	peal	K
Em	ission L	evel=	Read	Level	+ Corr	ect Factor							_





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Ter	npei	ratur	e:		23.4	1 ℃				M	Relat	tive Hu	midi	ty:	439	%	
Tes	t Vo	ltag	e:	Ā	DC	3V			a W			540	V			TO	
An	t. Po	ol.		1	Hori	izor	ntal	M			e_{H_I}			1	1		
Tes	t Mo	ode:			TX 9	924	.9N	1Hz				R	177				
Rei	marl	K :				-		or the	emission w	/hich r	nore th	an 20 c	IB be	low t	he		3
90.0) dB	uV/m															7
																6	
																×	
												(RF)F	CC 15C	3M Rac	liation		
														Mar	gin -6	dB []
40							_ţ										-
							4									بالس	
	1 X										3 4 X	5 }	word	mm	Madu"	~~	
	agend in	ward and	- A.				2		a month	mmma	Dwd.	Maria					
			on o	*****	want	_A N pad from		/ may do has									
10																	1
-10 30	0.000	40	50	0 (60 7	0 8	0		(MHz)		300	400	500	600	700	1000.	_ .00
_							202	ading	Correct	Mes	asure-						
١	No.	Mk.		Fre	q.			vel	Factor		ent	Limi	t	Ove	er		
_				MH	z		dE	BuV	dB/m	dB	uV/m	dBu√	//m	dB		Dete	cto
1			31	.28	93		33	.56	-13.91	19	9.65	40.0	00	-20.	35	pe	al
2			92	2.13	88		34	.01	-21.88	12	2.13	43.5	50	-31.	37	pe	al
3			263	3.8	190		36	.13	-16.96	19	9.17	46.0	00	-26.	83	pe	ał
4			312	2.17	794		37	.11	-15.88	2′	1.23	46.0	00	-24.	77	pe	aŀ
5			36	1.7	139		36	.66	-14.09	22	2.57	46.0	00	-23.	43	pe	ał
_		*			563			.34	-4.25	70	3.09	114.00		35.91	_	pe	ام





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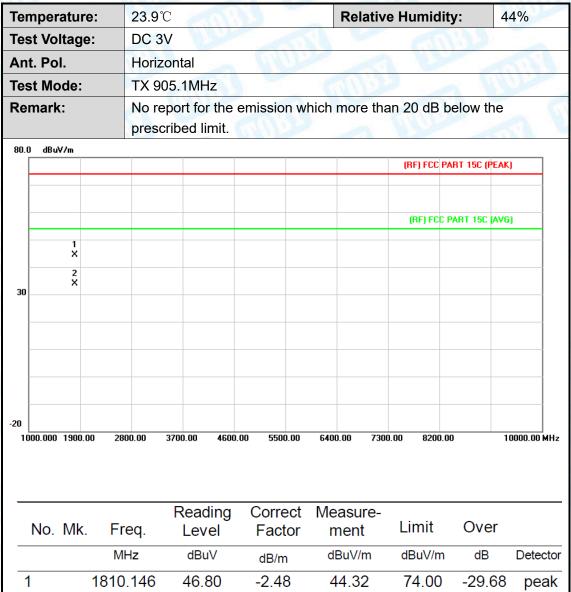
Tempera	ature:		23.4°C					Relati	ve Humi	dity: 4	3%
Test Vol	tage:	6	DC 3\	/		a W			MIL		AN!
Ant. Pol			Vertic	al	Tn,	33	_	a_{HD}	1300	1	The same
Test Mo	de:		TX 92	4.9M	Hz	100			6711	193	
Remark	:		No re			emission w	/hich m	nore tha	an 20 dB	below the	9
90.0 dBu\	//m										
1	2	www.			hadyn	3 M.X	4 Marian	Manual	(RF)FCC 1	5C 3M Radial Margin	
-10 30.000			60 70			(MHz)		300	400 5	500 600 70	0 1000.00
					ding	Correct	Mea	sure-	1		
No.	Mk.	Fre	q.	Le	vel	Factor	me	ent	Limit	Over	
<u> </u>		МН	Z	dB	uV	dB/m	dBı	uV/m	dBuV/m	dB	Detecto
1	3	31.73	313	39	.81	-14.25	25	5.56	40.00	-14.4	4 peak
2	4	4.43	308	35	.50	-21.15	14	1.35	40.00	-25.6	5 peak
3	1;	37.42	202	33	.93	-22.37	11	.56	43.50	-31.9	4 peak
4	22	21.39	921	33	.13	-18.78	14	.35	46.00	-31.6	
5	4!	52.7°	197	33	.90	-11.85	22	2.05	46.00	-23.9	5 peak
6	* 92	25.7	563	73	.58	-4.25	60	9.33	114.00	-44.67	peak





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Radiated Spurious Emission (Above 1 GHz)



	No.	Mk.	Freq.			ment	Limit	Over	
			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
	1		1810.146	46.80	-2.48	44.32	74.00	-29.68	peak
•	2	*	1810.174	36.44	-2.48	33.96	54.00	-20.04	AVG





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Ter	nperature:	23.9℃	Relative Humidity: 44%
Tes	t Voltage:	DC 3V	THE PARTY OF THE P
٩n	t. Pol.	Vertical	TO THE MAN TO THE PARTY OF THE
Гes	t Mode:	TX 905.1MHz	
Re	mark:	No report for the emissi prescribed limit.	on which more than 20 dB below the
80.0) dBuV/m		(RF) FCC PART 15C (PEAK)
			(iii) i de l'aiti i de (i Enty)
			(RF) FCC PART 15C (AVG)
	1 X		
	2 X		
30			

	No.	Mk.	Freq.			Measure- ment	Limit	Over	
			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	1		1810.078	45.46	-2.48	42.98	74.00	-31.02	peak
2	2	*	1810.204	35.92	-2.48	33.44	54.00	-20.56	AVG

Emission Level= Read Level+ Correct Factor





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Гen	nperature:	23.9℃	<i>ا</i> ر الأ	A HILL	Relative Humidity:	44%
Гes	t Voltage:	DC 3V	Mann.	3	CALL TO THE PARTY OF THE PARTY	a W
4nt	. Pol.	Horizo	ntal)
Гes	t Mode:	TX 918	3.4MHz	MINO		- ARM
Rer	nark:		ort for the e	mission whic	h more than 20 dB bel	ow the
80.0	dBuV/m				(05) 500 0403	150 (051)
					(RF) FCC PART	TOU (PEAK)
-	1				(RF) FCC PAF	IT 15C (AVG)
ŀ	ž					
-						
30						
20						
10	00.000 1900.00	2800.00 3	700.00 4600.00	5500.00 6	5400.00 7300.00 8200.00	10000.00 MF

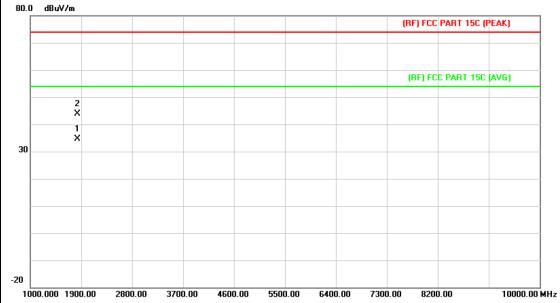
No	o. Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		1836.694	49.37	-2.28	47.09	74.00	-26.91	peak
2	*	1836.746	44.68	-2.28	42.40	54.00	-11.60	AVG





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23.9℃	Relative Humidity:	44%
DC 3V	THE PROPERTY OF THE PARTY OF TH	
Vertical) _
TX 918.4MHz		
No report for the emissiprescribed limit.	sion which more than 20 dB below	the
	DC 3V Vertical TX 918.4MHz No report for the emiss	DC 3V Vertical TX 918.4MHz No report for the emission which more than 20 dB below



No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	1836.758	36.79	-2.28	34.51	54.00	-19.49	AVG
2		1836.934	46.08	-2.28	43.80	74.00	-30.20	peak





2

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Temp	eratu	re:	23.9	°C		1	MA	R	elat	ive Humi	dity:	44%
Test \	/oltag	je:	DC 3	SV		33		. 0		Land of the land		A STATE
Ant. F	ol.		Horiz	zontal						670	116757	
Test N	/lode:	•	TX 9	24.9MF	łz	1111	الإرا			1 163		A MORE
Rema	rk:			eport for		emissio	n whi	ch mor	e th	an 20 dB	below the	
80.0 d	BuV/m											
_										(RF) FCC	PART 15C (PEA	ıK)
	2									(RF) FCL	PART 15C (A)	/GJ
	¥ ×											
30												
-20												
1000.0	00 1900	0.00 28	00.00	3700.00	4600	0.00 5500	0.00	6400.00	730	0.00 8200	.00	10000.00 MHz
				Readi		Correc	et N	leasur	e-			
No.	Mk.	Fre	q.	Leve	el	Facto	r	ment		Limit	Over	
		MH	Z	dBu∖	/	dB/m		dBuV/n	n	dBuV/m	dB	Detector
1	*	1849.	740	46.1	6	-2.18		43.98	}	54.00	-10.02	AVG

74.00

47.91

-26.09

peak

Emission Level= Read Level+ Correct Factor

50.09

-2.18

1849.912





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Temperature:	23.9℃	Relative Humidity:	44%			
Test Voltage:	DC 3V	- Group				
Ant. Pol.	Vertical	COLUMN CO				
Test Mode:	TX 924.9MHz					
Remark:	No report for the emiss prescribed limit.	sion which more than 20 dB below	the			
80.0 dBuV/m		(RF) FCC PART 15C	(PEAK)			
		(11)10011111110	(i Erit)			
		(RF) FCC PART 150	CIAVGI			
2						
×						
30 ×						
20						
1000.000 1900.00	2800.00 3700.00 4600.00 !	5500.00 6400.00 7300.00 8200.00	10000.0			

No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	1849.806	37.32	-2.18	35.14	54.00	-18.86	AVG
2		1849.980	45.65	-2.18	43.47	74.00	-30.53	peak

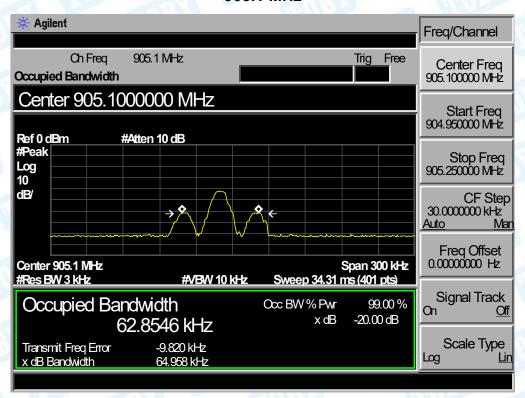


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Attachment B--Bandwidth Data

Low Channel Frequency (MHz)	20dB Bandwidth (kHz)
905.1	64.958

905.1 MHz





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MID Channel Frequency (MHz)	20dB Bandwidth (kHz)
918.4	67.523

918.4 MHz

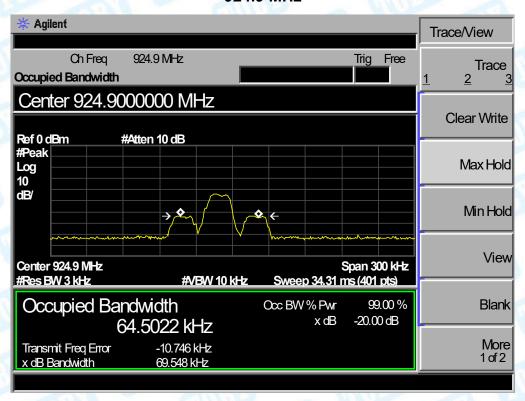




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HIGH Channel Frequency (MHz)	20dB Bandwidth (kHz)
924.9	69.548

924.9 MHz



----End of Report----