FCC PART 15 SUBPART C TEST REPORT

for

915Mz Transceiver Module

Model No.: PN17TR

FCC ID: 2ACT2-PN17TR

of

Applicant: Inventis Technology Pty Ltd

Address: Unit 4, 2 Southridge Street Eastern Creek NSW 2766 Australia

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: TW1477, TW0020, TW1072

Industry Canada filed test laboratory Reg. No. 20037

A2LA Accredited No.: 2732.01





Report No.: W6M21911-19492-C-1

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1 General Information

1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has passed all the relevant tests conforms to a specification.

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems. The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that is performance generally conforms to representative cases of communications equipment.

The test results of this test report relate exclusively to the item tested as specified in 1.5.

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1	Castare	
	ester	

January 31, 2020		Kent Lin	Kent Lin	
Date	WTS-Lab.	Name	Signature	

Technical responsibility for area of testing:

January 31, 2020		Kevin Wang	Kevin Wang
Date	WTS	Name	Signature

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1.2 Testing laboratory

1.2.1 Location

OATS

No.5-1, Lishui, Shuang Sing Village, Wanli Dist., New Taipei City 207,

Taiwan (R.O.C.)

3 meter semi-anechoic chamber

No.35, Aly. 21, Ln. 228, Ankang Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

TEL:886-2-6613-0228 FAX:886-2-2791-5046

Company

Worldwide Testing Services(Taiwan) Co., Ltd. 6F, NO. 58, LANE 188, RUEY-KUANG RD.

NEIHU, TAIPEI 114, TAIWAN R.O.C.

Tel : 886-2-66068877 Fax : 886-2-66068879

1.2.2 Details of accreditation status

Accredited testing laboratory

A2LA accredited number: 2732.01

FCC filed test laboratory Reg. No. TW1477, TW0020, TW1072

Industry Canada filed test laboratory Reg. No. 20037

Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd.:

Name:	./.
Accredited number:	./.
Street:	./.
Town:	./.
Country:	./.
Telephone:	./.
Fax:	./.

1.3 Details of approval holder

Name: Inventis Technology Pty Ltd Street: Unit 4, 2 Southridge Street Town: Eastern Creek NSW 2766

Country: Australia

Telephone: +61 2 8088 0400 Fax: +61 2 9620 1582



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1.4	Ap	plication	on de	tails

Date of receip	pt of test item:	December 31, 2019	December 31, 2019			
Date of test:		from January 02, 2020 to January 30,	, 2020			
1.5 Gene	eral information o	f Test item				
Type of test i	tem:	915Mz Transceiver Module				
Model Numb	er:	PN17TR				
Brand Name:		Inventis WiLAS				
Multi-listing	model number:	./.				
Photos:		see Appendix				
Technical da	nta					
Frequency ba	and:	915 MHz				
Modulation T	Type:	2-FSK				
Fixed point-to	o-point operation:	☐ Yes / 🔀 No				
Type of Ante	nna:	Dipole Antenna				
		Helical Antenna				
Antenna gain	:	Dipole Antenna: 5 dBi				
		Helical Antenna: 2.15 dBi				
Power supply	<i>'</i> :	Adaptor (I/P: 100-240VAC, 50/60Hz, 0.8A;				
		O/P: 24V, 1.5A, 36W MAX.)			
		Battery 12V, 12.0Ah/20HR				
Emission des	ignator:	Helical Antenna: 1M11G1D				
**		Dipole Antenna: 1M11G1D				
Host device:		none				
Classification			<u> </u>			
	Fixed Device					
	Mobile Device (Hu	man Body distance > 20cm)				
	Portable Device (H	uman Body distance < 20cm)				
	Modular Radio Dev	vice				
Tuanamittau		Unam				
Transmitter		<u>Unom</u>				
Dipole Anter Power:	ша	Conducted: 8.57 dBm				
Helical Ante	nna					
Downer		Conducted: 9 15 dDm				

Power: Conducted: 8.45 dBm



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Manufacturer: (if applicable)

Name: /.
Street: /.
Town: /.
Country: /.
Additional information: /.

1.6 Test standards

Technical standard: FCC RULES SUBPART C § 15.247 (2018-10)

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2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course

X

of the tests performed.

or

The deviations were ascertained in the course of the tests performed.

 \Box .

2.2 Test environment

Relative humidity content: 20 ... 75 %

Air pressure: 86 ... 103 kPa

Power supply: Adaptor (I/P: 100-240VAC, 50/60Hz, 0.8A;

O/P: 24V, 1.5A, 36W MAX.)

Battery 12V, 12.0Ah/20HR

Extreme conditions parameters: ./.

Test item Name	Uncertainty		
Estimation Result of Uncertainty of Conducted Emission	Expanded Uncertainty: AMN: 1.30 dB Voltage probe: 1.36 dB		
Estimation Result of Uncertainty of Radiated Emission(3M)	Expanded Uncertainty: 0.009-30 MHz: 2.02 dB 30-1000 MHz: 3.49 dB 1-18 GHz: 3.01 dB 18-40 GHz: 2.43 dB		
Estimation Result of Uncertainty of Bandwidth Measurement 20 dB Bandwidth, Occupied bandwidth, Channel bandwidth, Necessary Bandwidth	Expanded Uncertainty: 0.45 kHz		
Estimation Result of Uncertainty of Conducted Output Power Measurement Output power	Expanded Uncertainty: 1.72 dB		
Estimation Result of Uncertainty of Power Density Measurement Power density	Expanded Uncertainty: 1.73 dB		
Estimation Result of Uncertainty of Band Edge Measurement	Expanded Uncertainty: 0.98 dBc		

The decision rule is: Measurement uncertainty is not taken into account.



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Test Equipment List

No.	Test equipment	Туре	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2019/6/4	2020/6/3
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Functi	on Test
ETSTW-CE 004	ZWEILEITER-V- NETZNACHBILDUNG TWO-LINE V-NETWORK	ESH3-Z5	840731/011	R&S	2019/11/1	2020/10/31
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2019/9/24	2020/9/23
ETSTW-CE 008	HF-EICHLEITUNG RF STEP ATTENUATOR 139dB DPSP	334.6010.02	844581/024	R&S	Functi	on Test
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2019/7/23	2020/7/22
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2019/10/3	2020/10/2
ETSTW-CE 028	MXE EMI Receiver	N9038A	MY53220110	Agilent	2019/7/18	2020/7/17
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2019/6/4	2020/6/3
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2019/5/29	2020/5/28
ETSTW-RE 012	TUNABLE BANDREJECT FILTER	D.C 0309	146	K&L	Function	on Test
ETSTW-RE 013	TUNABLE BANDREJECT FILTER	D.C 0336	397	K&L	Function	on Test
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2019/7/25	2020/7/24
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2019/7/22	2020/7/21
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	ETS-Lindgren	2019/4/2	2020/4/1
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2020/1/23	2021/1/22
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2019/4/23	2020/4/22
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2019/5/13	2020/5/12
ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-te	st Use
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2019/2/27	2020/2/26
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2019/2/27	2020/2/26
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2019/2/27	2020/2/26
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2019/3/5	2020/3/4
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2019/2/27	2020/2/26
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2019/5/16	2020/5/15
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu	Functi	on Test
ETSTW-RE 069	Double-Ridged Guide Horn Antenna	3117	00069377	ETS-Lindgren	Functi	on Test
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2019/9/23	2020/9/22
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2019/9/18	2020/9/17
ETSTW-RE 091	Match Pad	MDCS1500	None	WOKEN	2019/5/9	2020/5/8
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2019/2/22	2020/2/21
ETSTW-RE 112	AC POWER SOURCE	TFC-1005	T-0A023536	T-Power	Functi	on test
ETSTW-RE 115	2.4GHz Notch Filter	N0124411	473874	MICROWAVE CIRCUITS	2020/1/13	2021/1/12



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ETSTW-RE 120 RF Player MP9200 MP9210-111022 ADIVIC Function test						
ETSTW-RE 122	SIGNAL GENERATOR	SMF100A 5NSL11-	102149	R&S	2019/6/3	2020/6/2
ETSTW-RE 125	5GHz Notch filter	5200/E221.3-O/O	1	K&L Microwave	2019/8/8	2020/8/7
ETSTW-RE 126	5GHz Notch filter	5NSL12- 5800/E221.3-O/O	1	K&L Microwave	2019/8/8	2020/8/7
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2019/2/26	2020/2/25
ETSTW-RE 128	5.3GHz Notch filter	N0153001	SN487233	Microwave Circuits	2019/8/8	2020/8/7
ETSTW-RE 129	5.5GHz Notch filter	N0555984	SN487234	Microwave Circuits	2019/8/8	2020/8/7
ETSTW-RE 130	Handheld RF Spectrum Analyzer	N9340A	CN0147000204	Agilent	Pre-te	st Use
ETSTW-RE 142	Amplifier	8447D	2805A03378	Agilent	2019/5/16	2020/5/15
ETSTW-RE 147	Bi-log Hybrid Antenna	MCTD 2786B	BLB16M04005	ETC	2019/4/2	2020/4/1
ETSTW-RF 002	Electromagnetic field probe	LF-30	K-0007	STT	2019/5/27	2020/5/26
ETSTW-EMI 011	USB Compact Modulator	SFC-U	101689	R&S	2019/5/16	2020/5/15
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2019/3/5	2020/3/4
ETSTW-GSM 003	Radio Communication Analyzer	MT8820C	6201342073	Anritsu	2019/3/26	2020/3/25
ETSTW-GSM 004	Wideband Radio Communication Tester	CMW500	128092	R&S	2019/10/25	2020/10/24
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849- 822/851-40 /12+9SS	3	WI	2020/1/13	2021/1/12
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748- 1743/1752-32/5SS	1	WI	2020/1/13	2021/1/12
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5 -1875.5/1884.5- 32/5SS	3	WI	2020/1/13	2021/1/12
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1- 904.25-50/8SS	1	WI	2020/1/13	2021/1/12
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2019/9/12	2020/9/11
ETSTW-GSM 024	Radio Communication Analyzer	MT8821C	None	Anritsu	2019/3/5	2020/3/4
ETSTW-GSM 025	Band Reject Filter	BRM19835	001	Micro-Tronics	2019/8/9	2020/8/8
ETSTW-Cable 011	SMA to N type Cable	RGU-400	None	THERMAX	Pre-test I	Jse NCR
ETSTW-Cable 016	BNC Cable	Switch Box	B Cable 1	Schwarz beck	2019/2/21	2020/2/20
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2019/2/21	2020/2/20
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2019/2/21	2020/2/20
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2019/2/21	2020/2/20
ETSTW-Cable 020	N TYPE Cable	OATS Cable 1	N30N30-L335-15M	JYE BAO CO.,LTD.	2019/7/2	2020/7/1
ETSTW-Cable 026	Microwave Cable	SUCOFLEX 104	279075	HUBER+SUHNER	2019/2/25	2020/2/24
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2019/5/14	2020/5/13
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2019/9/18	2020/9/17
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2019/9/18	2020/9/17
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2019/2/25	2020/2/24
ETSTW-Cable 043	Microwave Cable	SUCOFLEX 104	317576	HUBER+SUHNER	2019/5/16	2020/5/15
ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2019/6/6	2020/6/5
ETSTW-Cable 064	Microwave Cable	SUCOFLEX 104	MY28891	HUBER+SUHNER	2019/5/16	2020/5/15



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ETSTW-Cable 066	SMA type cable	32022	None	ASTROLAB 2019/9/24		2020/9/23
ETSTW-Cable 071	N TYPE CABLE	EMCCFD400-NM- NM-25000	170239	EMCI	2019/6/6	2020/6/5
ETSTW-Cable 072	SMA type cable (8m)	SUCOFLEX 104	805800/4	HUBER+SUHNER	2019/5/16	2020/5/15
ETSTW-Cable 074	SMA type cable (2m)	SUCOFLEX 104	802563/4	HUBER+SUHNER	2019/5/16	2020/5/15
WTSTW-SW 002	EMI TEST SOFTWARE	EZ_EMC	None	Farad	Version ETS-03A1	
WTSTW-SW 006	EMI TEST SOFTWARE	e3	None	AUDIX	Version 9.161014	
WTSTW-SW 008	TSTW-SW 008 Signal studio Ag		None	AUDIX	Version	2.0.0.1
ETSTW-TH 001	Thermohygrometer	608-H1	45204316	Testo	2019/9/9	2020/9/8
ETSTW-TH 002	Thermohygrometer	608-H1	45204317	Testo	2019/9/9	2020/9/8

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2.4 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.10-2013 5.2 using a 50μH LISN (if necessary). Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

RADIATION INTERFERENCE: The test procedure used was according to ANSI STANDARD C63.10-2013 6.4 employing a spectrum analyzer. For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 100kHz respectively with an appropriate sweep speed. For investigated frequency is above 1GHz, both of RBW and VBW of the spectrum analyzer were 1 MHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of $dB\mu V$) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB.

Example:

Freq (MHz) METER READING + ACF + CABLE LOSS (to the receiver) = FS

33 $20 \text{ dB}\mu\text{V} + 10.36 \text{ dB} + 6 \text{ dB} = 36.36 \text{ dB}\mu\text{V/m} \text{ (a)3m}$

The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m (non metallic table) and arranged according to ANSI C63.10-2013 6.3.1. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

- (1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- (2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
- (3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.
- (4) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a)(1)-(a)(3) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this Section, whichever is the higher frequency range of investigation.

For hand-held devices, a exploratory test was performed with three (3) orthogonal planes to determine the highest emissions.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

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When the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.

The formula is as follows:

Average = Peak + Duty Factor

Duty Factor = 20 log (dwell time/T)

T = 100ms when the pulse train period is over 100 ms or the period of the pulse train.

Modified Limits for peak according to 15.35 (b) = Max Permitted average Limits + 20dB

ANSI STANDARD C63.10-2013 B.2.7: Any measurements that utilize special test software shall be indicated and referenced in the test report. During testing, test software 'EZ EMC' was used for setting up different operation modes.

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3 Test results (enclosure)

TEST CASE	Para. Number	Required	Test passed	Test failed
Peak Output Power	15.247(b)	×	×	
Equivalent isotropically radiated Power	15.247(b)	×	×	
Spurious Emissions radiated – Transmitter operating	15.247(d):	×	×	
	15.209			
Band Edge Measurement	15.247(d)	×	×	
Minimum 6 dB Bandwidth	15.247(a)(2)	×	×	
Peak Power Spectral Density	15.247(e)	×	×	
Radiated Emission from Receiver part	15.109			
Power Line Conducted Emission	15.207			

The following is intentionally left blank.

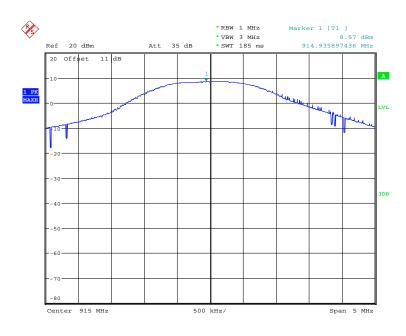
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3.1 Peak Output Power (transmitter)

FCC Rule: 15.247(b)(3)

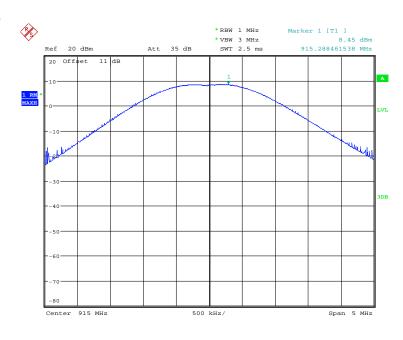
This measurement applies to equipment with an integral antenna and to equipment with an antenna connector and equipped with an antenna as declared by the applicant.

Dipole Antenna



MAX OUTPUT POWER 915MHZ
Date: 9.JAN.2020 15:54:11

Helical Antenna



MAX OUTPUT POWER 915MHZ
Date: 22.JAN.2020 14:37:19



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Limits:

Frequency	Power
MHz	dBm
902 - 928	30
2400 – 2483.5	30
5725 – 5850	30

In case of employing transmitter antennas having antenna gain > 6 dBi and using fixed point-to point operation consider \$15.247 (b)(4)

Test equipment used: ETSTW-RE 055, ETSTW-RE 050, ETSTW-RE 064

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3.2 Equivalent Isotropic Radiated Power (EIRP)

FCC Rule: 15.247(b)(3)

Dipole Antenna

EIRP = max. conducted output power + antenna gain

EIRP = 8.57 dBm + (5 dBi [antenna gain claimed by manufacturer] = 13.57 dBm = 22.75 mW

Helical Antenna

EIRP = max. conducted output power + antenna gain

EIRP = 8.45 dBm + (2.15 dBi [antenna gain claimed by manufacturer] = 10.60 dBm = 11.48 mW

Test equipment used: ETSTW-RE 055

3.3 Exemption Limits for Routine Evaluation according to47 CFR FCC Part 2 Subpart J, section 2.1091

FCC OET Bulletin 65 Edition 97.01 determines the equations for predicting RF fields and applicable limits.

The prediction for power density in the far-field but will over-predict power density in the near field, where it could be used for walking a "worst case" or conservative prediction.

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 20 cm normally can be maintained between the user and the device.

MPE Calculation Method

(A) Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)	
0.3-3.0	614	1.63	(100)*	6	
3.0-30	1842/f	4.89/f	(900/f ²)*	6	
30-300	61.4	0.163	1.0	6	
300-1500			f/300	6	
1500-100,000			5	6	

(B) Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)	
0.3-1.34	614	1.63	(100)*	30	
1.34-30	824/f	2.19/f	$(180/f^2)*$	30	
30-300	27.5	0.073	0.2	30	
300-1500			f/1500	30	
1500-100,000			1.0	30	

f = frequency in MHz

^{*}Plane-wave equivalent power density



Registration number: W6M21911-19492-C-1

FCC ID: 2ACT2-PN17TR

E = Electric field (V/m) P = output power (W) G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

Pd •
$$\frac{30 \times P \times G}{377 \times d^2}$$
 mW/cm².

Master Device

Established separation distance is 20 cm. Operating frequency band: 915 MHz

The product meets RF exposure requirement.

Because the power density of 0.0045 mW/cm² at 915 MHz is below the power density limit of 0.61 mW/cm².

PN15RC

Established separation distance is 20 cm. Operating frequency band: 915 MHz

The product meets RF exposure requirement.

Because the power density of 0.0023 mW/cm² at 915 MHz is below the power density limit of 0.61 mW/cm².

Limits:

Limit for General Population / Uncontrolled Exposure							
Frequency (MHz)	Power Density (mW/cm ²)						
915	0.61						

FCC ID: 2ACT2-PN17TR

3.4 Transmitter Radiated Emissions in Restricted Bands

FCC Rules: 15.247 (d), 15.205, 15.209, 15.35

Radiated emission measurements were performed from 30 MHz to 26500 MHz.

For radiated emission tests, the analyzer setting was as followings:

Frequency \leq 1 GHz, RBW:100 kHz, VBW: 100 kHz (Peak measurements) Frequency > 1 GHz, RBW: 1 MHz, VBW: 1 MHz (Peak measurements) Frequency > 1 GHz, RBW:1 MHz, VBW: 10 Hz (Average measurements)

Limits.

For frequencies below 1GHz:

Frequency of Emission	Field strength	Field Strength
(MHz)	(microvolts/meter)	(dB microvolts/meter)
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above	500	54.0

For frequencies above 1GHz (Average measurements).

Guidance on Measurement of Digit Transmission Systems:

"If the emission is pulsed, modify the unit for continuous operation, use the setting shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation."

The correction factor, based on the total channel dwell time in a 100 ms period, may be mathematically applied to a measurement made with an average detector, to further reduce the value.

Duty cycle correction = 20 log (dwell time/ 100ms)

Note: No duty cycle correction was added to the reading of this EUT.

Explanation: See attached diagrams in Appendix.

FCC ID: 2ACT2-PN17TR

3.5 Spurious Emissions (tx)

Spurious emission was measured with modulation (declared by manufacturer).

In any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c))

FCC Rule: 15.247(d), 15.35

For out of band emissions that are close to or that exceed the 20 dB attenuation requirement described in the specification, radiated measurements were performed at a 3 m separation distance to determine whether these emissions complied with the general radiated emission requirement.

Limits:

For frequencies above 1GHz (Peak measurements). Modified Limit for peak according to 15.35 (b) = Max Permitted average Limits + 20dB

For frequencies above 1GHz (Average measurements).

Max. reading – 20dB

Max. reading – 20 dB

Guidance on Measurement of Digit Transmission Systems:

"If the emission is pulsed, modify the unit for continuous operation, use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation."

The correction factor, based on the total channel dwell time in a 100 ms period, may be mathematically applied to a measurement made with an average detector, to further reduce the value.

Duty Cycle correction = 20 log (dwell time/100ms)

Note: No duty cycle correction was added to the reading of EUT.



FCC ID: 2ACT2-PN17TR

SAMPLE CALCULATION OF LIMIT. All results will be updated by an automatic measuring system in accordance with point 2.3.

Calculation of test results:

Such factors like antenna correction, cable loss, external attenuation etc. are already included in the provided measurement results. This is done by using validated test software and calibrated test system according the accreditation requirements.

The peak and average spurious emission plots was measured with the average limits. In the Table being listed the critical peak and average value and exhibit the compliance with the above calculated Limits.

If in the column's correction factor states a value then the max. Field strength in the same row is corrected by a value gained from the "Correction Factor".

Summary table with radiated data of the test plots

Model: Mode: Polarization:		PN17TR		Date: Temperature: Humidity:		°C %	Engineer:	
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)

Frequency		ding	Factor	Result				Margin		Ant.
	(dE	BuV)	(dB)	(dBu'	(dBuV/m)		(dBuV/m)		Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(m)
						1	1		1	
						1	1		1	
						1	1		-	

Note

- 1. Correction Factor = Antenna factor + Cable loss Preamplifier
- 2. The formula of measured value as: Test Result = Reading + Correction Factor
- 3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
- 4. All not in the table noted test results are more than 20 dB below the relevant limits.
- 5. After evaluated, the test result in this report adopt the worst case to measure, please see attached diagrams in appendix.

TEST RESULT (Transmitter): The unit DOES meet the FCC requirements.

Test equipment used: ETSTW-RE 030, ETSTW-RE 111, ETSTW-RE 088, ETSTW-RE 018, ETSTW-RE 064

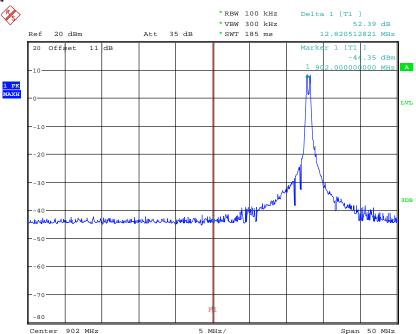
FCC ID: 2ACT2-PN17TR

3.6 Radiated Emission on the band edge

According to FCC rules part 15 subpart C §15.247(d) in any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required.

In addition radiated emission which fall in the restricted bands, as defined in section 15.205(a), must also with the radiated emission limits.

Dipole Antenna



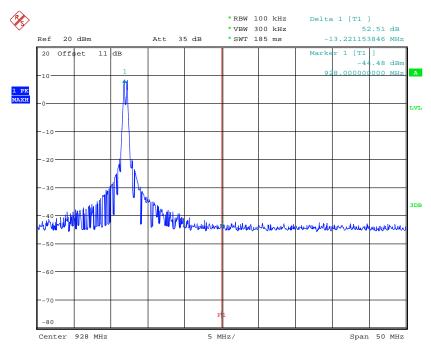
BANDEDGE 915MHZ

Date: 9.JAN.2020 16:00:46



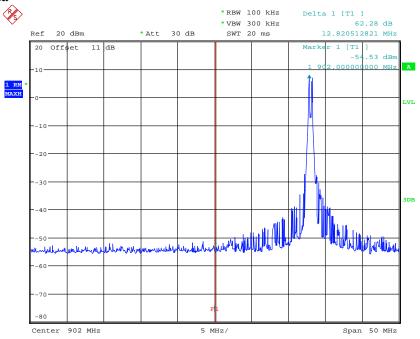
Registration number: W6M21911-19492-C-1

FCC ID: 2ACT2-PN17TR



BANDEDGE 915MHZ
Date: 9.JAN.2020 16:01:15

Helical Antenna



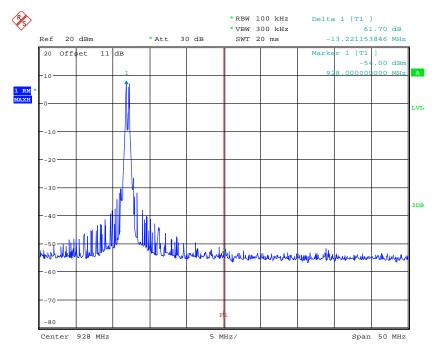
BANDEDGE 915MHZ

Date: 22.JAN.2020 14:40:06



Registration number: W6M21911-19492-C-1

FCC ID: 2ACT2-PN17TR



BANDEDGE 915MHZ

Date: 22.JAN.2020 14:40:32

Limit:

Frequency Range / MHz	Limit
902 –928	
2400 – 2483.5	- 20 dB
5725 - 5850	

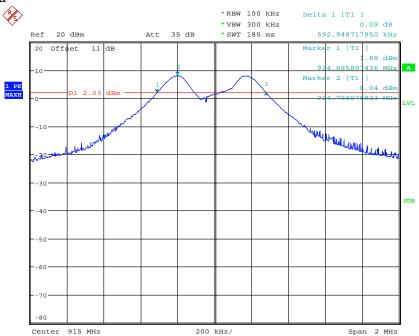
Test equipment used: ETSTW-RE 055, ETSTW-RE 050, ETSTW-RE 064

FCC ID: 2ACT2-PN17TR

3.7 Minimum 6 dB Bandwidth

The analyzer ResBW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK reading was taken, two markers were set 6 dB below the maximum level on the right and the left side of the emission. The 6 dB bandwidth is the frequency difference between the two markers.

Dipole Antenna



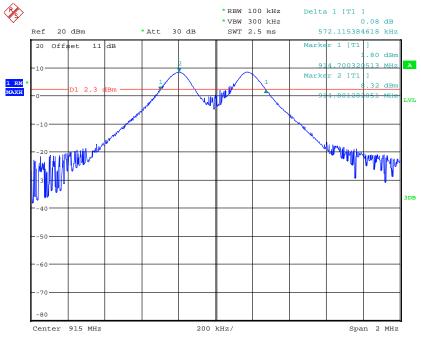
6DB BANDWIDTH 915MHZ
Date: 9.JAN.2020 15:52:49



Registration number: W6M21911-19492-C-1

FCC ID: 2ACT2-PN17TR

Helical Antenna



6DB BANDWIDTH 915MHZ

Date: 22.JAN.2020 14:39:16

Limits:

Frequency Range MHz	Limits
902-928	min 500 kHz
2400-2483.5	min 500 kHz
5725-5850	min 500 kHz

Test equipment used: ETSTW-RE 055, ETSTW-RE 050

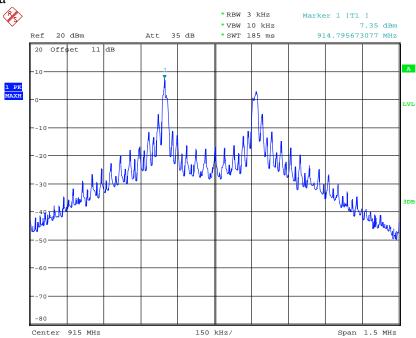
FCC ID: 2ACT2-PN17TR

3.8 Peak Power Spectral Density

Peak Power Spectral density is a measured at low, middle and high channel.

The peak output power is measured with a measurement bandwidth of 10 MHz and displayed on diagram together with Peak Power Spectral Density result which was measured with a bandwidth of 3 kHz, appreciate frequency span and sweep time.

Dipole Antenna



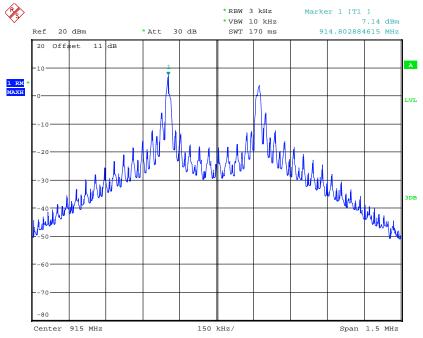
POWER DENSITY 915MHZ
Date: 9.JAN.2020 15:58:19



Registration number: W6M21911-19492-C-1

FCC ID: 2ACT2-PN17TR

Helical Antenna



POWER DENSITY 915MHZ
Date: 22.JAN.2020 14:38:15

Limits:

Frequency Range	dBm
MHz	
902-928	8
2400-2483.5	8
5725-5850	8

Test equipment used: ETSTW-RE 055, ETSTW-RE 050



Registration number: W6M21911-19492-C-1

FCC ID: 2ACT2-PN17TR

3.9 Radiated Emission from Receiver Part

Model: PN17TR Date: --

Mode: -- Temperature: -- °C Engineer: --

Polarization: -- Humidity: -- %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)

Frequency		ding BuV)	Factor (dB)			Limit (dBuV/m)		Margin	Table Degree	Ant. High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(m)
		-							-	
		1				1			1	
		1				-			1	

Note

- 1. Correction Factor = Antenna factor + Cable loss Preamplifier
- 2. The formula of measured value as: Test Result = Reading + Correction Factor
- 3. Detector function in the form: PK = Peak, QP = Quasi Peak, AV = Average
- 4. All not in the table noted test results are more than 20 dB below the relevant limits.
- 5. Please refer to separated test report no.: W6M21911-19492-P-15B.



FCC ID: 2ACT2-PN17TR

3.10 Power Line Conducted Emission

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the table bellows with this provision shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminals.

This measurement was transact first with instrumentation using an average and peak detector and a 10 kHz bandwidth. If the peak detector achieves a calculated level, the measurement is repeated by an instrumentation using a quasi-peak detector.

Model: PN17TR Mode: Polarization: N			ΓR	Date Tempera Humidi	ture:		Er	ngineer:	
F	Frequency	Reading (dBuV)		Factor (dB)				nit uV)	Margin
	(MHz)	QP	Ave.	Corr.	QP	Ave.	QP	Ave.	(dB)
			1	1	1	1		1	
			1	1	1	1		1	
			1		1	-		1	
			1	1	1	1		1	
			-						
			-	-				-	

Polarization: L1

Internation.												
Frequency	Reading (dBuV)		Factor (dB)	(dB	sult uV)	(dB	nit uV)	Margin				
(MHz)	QP	Ave.	Corr.	QP	Ave.	QP	Ave.	(dB)				
	-						-					
	-						-					

Note: 1. The formula of measured value as: Test Result = Reading + Correction Factor

- 2. The Correction Factor = Cable Loss + LISN Insertion Loss + Pulse Limit Loss
- 3. Detector function in the form: PK = Peak, QP = Quasi Peak, AV = Average
- 4. All not in the table noted test results are more than 20 dB below the relevant limits.
- 5. Up Line: QP Limit Line, Down Line: Ave Limit Line.
- 6. This test is required.

Limits:

Frequency of Emission (MHz)	Conducted Limit (dBuV)				
	Quasi Peak	Average			
0.15-0.5	66 to 56	56 to 46			
0.5-5	56	46			
5-30	60	50			

Test equipment used: ETSTW-CE 001, ETSTW-CE 016, ETSTW-RE 045.

FCC ID: 2ACT2-PN17TR

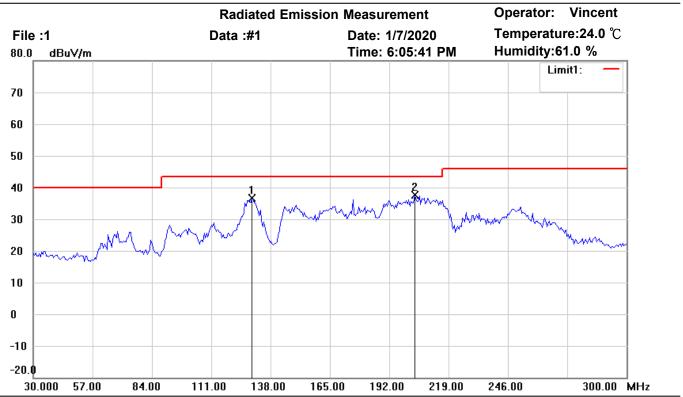
Appendix

Measurement diagrams

Spurious Emissions radiated_TX



Tel:+886-2-6606-8877 Fax:+886-2-6606-8879



Site: Chamber

Condition: FCC_part 15 RE-Class C_30-1000MHz Polarization: Horizontal

EUT: W6M21911-19492 Power: 120 Va.c.

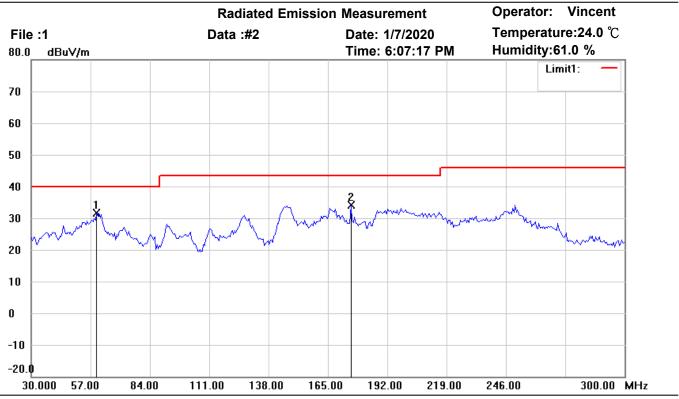
M/N: Distance: 3m

Test Mode: TX 915MHz

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	129.5591	42.85	peak	-6.30	36.55	43.50	100	65	-6.95	
*	203.6874	48.48	peak	-10.88	37.60	43.50	100	290	-5.90	



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Site: Chamber

Condition: FCC_part 15 RE-Class C_30-1000MHz Polarization: Vertical

EUT: W6M21911-19492 Power: 120 Va.c.

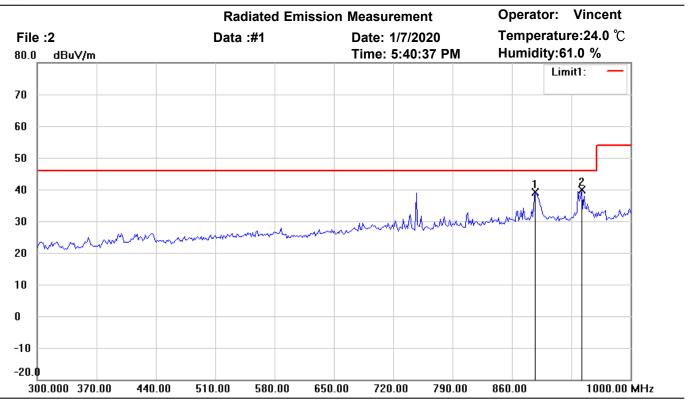
M/N: Distance: 3m

Test Mode: TX 915MHz

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	59.7595	43.37	peak	-11.72	31.65	40.00	100	220	-8.35	
	175.5511	44.79	peak	-10.67	34.12	43.50	100	135	-9.38	



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Site: Chamber

Condition: FCC_part 15 RE-Class C_30-1000MHz Polarization: Horizontal

EUT: W6M21911-19492 Power: 120 Va.c.

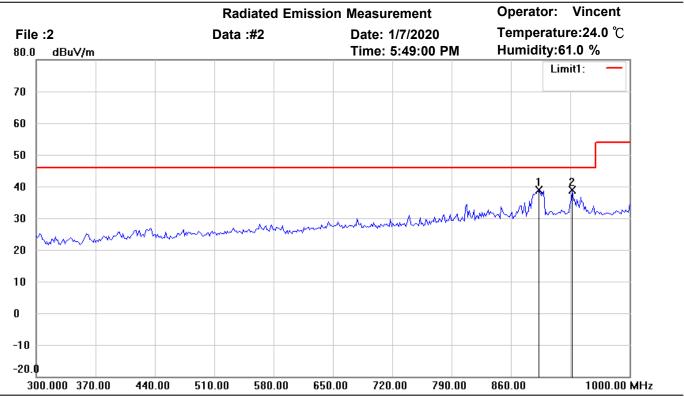
M/N: Distance: 3m

Test Mode: TX 915MHz

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	887.7756	36.04	peak	3.07	39.11	46.00	100	255	-6.89	
*	942.4850	35.79	peak	4.07	39.86	46.00	100	130	-6.14	



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Site: Chamber

Condition: FCC_part 15 RE-Class C_30-1000MHz Polarization: Vertical

EUT: W6M21911-19492 Power: 120 Va.c.

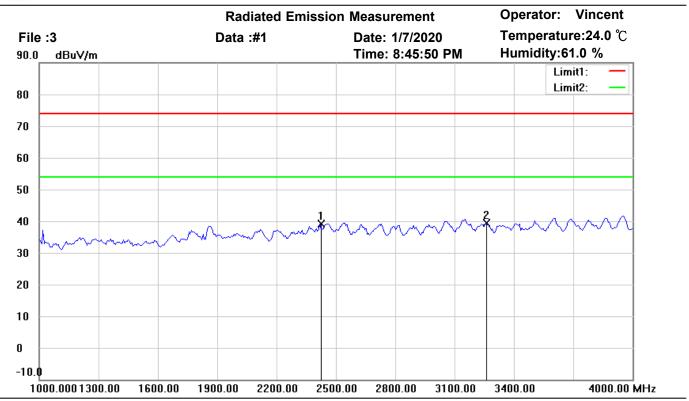
M/N: Distance: 3m

Test Mode: TX 915MHz

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	893.3867	35.83	peak	3.13	38.96	46.00	100	60	-7.04	
	932.6653	34.93	peak	3.87	38.80	46.00	100	270	-7.20	



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Site: Chamber

Condition: FCC_part 15 RE-Class C_Above 1GHz_PK Polarization: Horizontal

EUT: W6M21911-19492 Power: 120 Va.c.

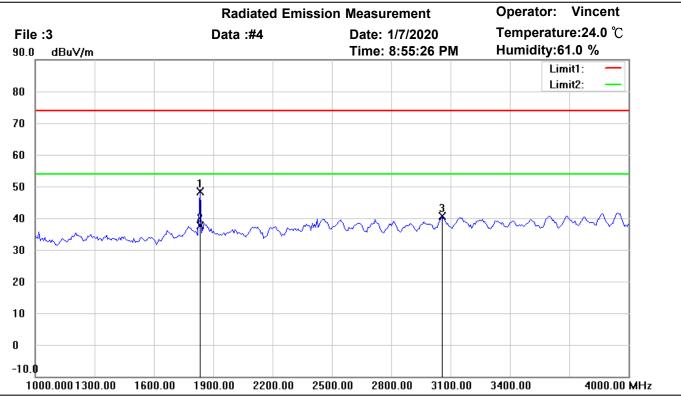
M/N: Distance: 3m

Test Mode: TX 915MHz

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2418.838	44.49	peak	-5.44	39.05	74.00	150	280	-34.95	
*	3260.521	43.01	peak	-3.71	39.30	74.00	150	110	-34.70	



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Site: Chamber

Condition: FCC_part 15 RE-Class C_Above 1GHz_PK Polarization: Vertical

EUT: W6M21911-19492 Power: 120 Va.c.

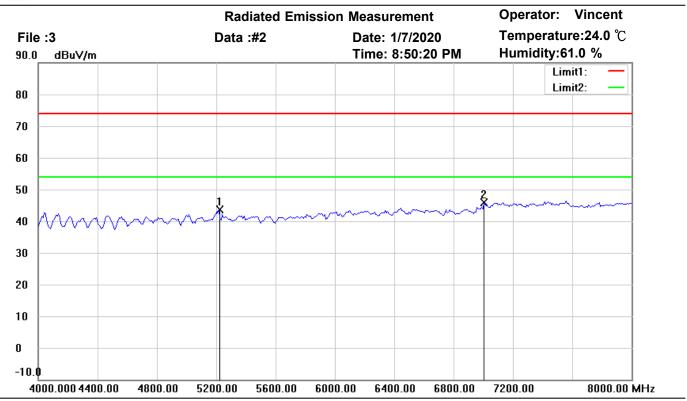
M/N: Distance: 3m

Test Mode: TX 915MHz

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	1830.047	56.06	peak	-7.63	48.43	74.00	150	78	-25.57	
*	1830.047	45.32	AVG	-7.63	37.69	54.00	150	78	-16.31	
	3056.112	44.63	peak	-4.10	40.53	74.00	150	305	-33.47	



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Site: Chamber

Condition: FCC_part 15 RE-Class C_Above 1GHz_PK Polarization: Horizontal

EUT: W6M21911-19492 Power: 120 Va.c.

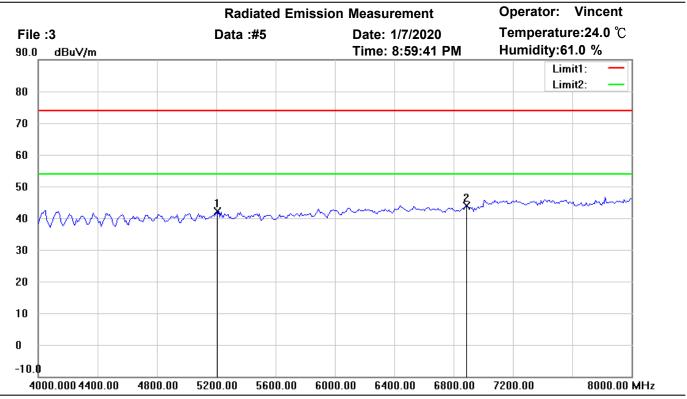
M/N: Distance: 3m

Test Mode: TX 915MHz

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	5218.437	44.22	peak	-0.55	43.67	74.00	150	140	-30.33	
*	7006.012	42.42	peak	3.57	45.99	74.00	150	65	-28.01	



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Site: Chamber

Condition: FCC_part 15 RE-Class C_Above 1GHz_PK Polarization: Vertical

EUT: W6M21911-19492 Power: 120 Va.c.

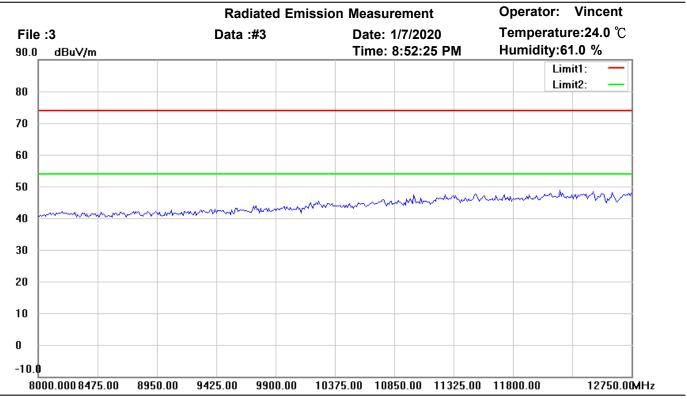
M/N: Distance: 3m

Test Mode: TX 915MHz

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	5202.405	42.75	peak	-0.57	42.18	74.00	150	60	-31.82	
*	6885.771	40.92	peak	2.91	43.83	74.00	150	235	-30.17	



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Site: Chamber

Condition: FCC_part 15 RE-Class C_Above 1GHz_PK Polarization: Horizontal

EUT: W6M21911-19492 Power: 120 Va.c.

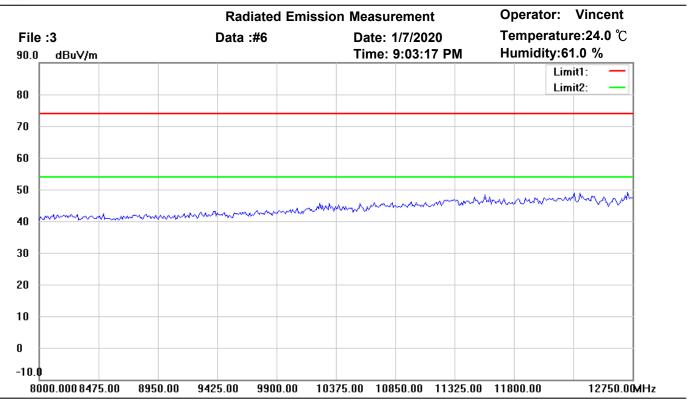
M/N: Distance: 3m

Test Mode: TX 915MHz

	Frequency	Reading	Detector	Corr. factor	Result	Limit	Ant.Pos	Tab.Pos	Margin	Comment	l
Mk.	(MHz)	(dBuV)		(dB/m)	(dBuV/m)	(dBuV/m)	(cm)	(deg.)	(dB)		



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Site: Chamber

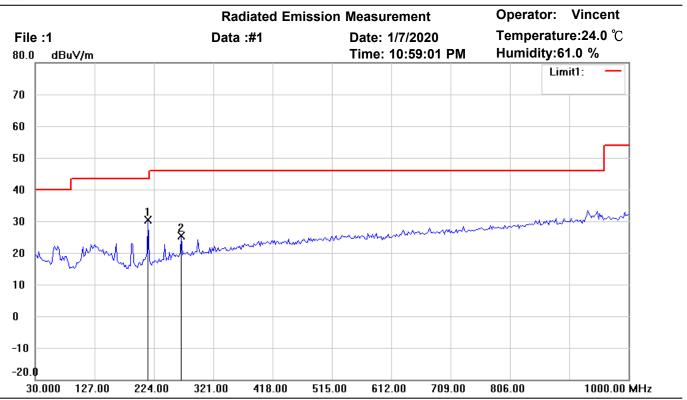
Condition: FCC_part 15 RE-Class C_Above 1GHz_PK Polarization: Vertical

Test Mode: TX 915MHz

	Frequency	Reading	Detector	Corr. factor	Result	Limit	Ant.Pos	Tab.Pos	Margin	Comment
Mk.	(MHz)	(dBuV)		(dB/m)	(dBuV/m)	(dBuV/m)	(cm)	(deg.)	(dB)	



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Site: Chamber

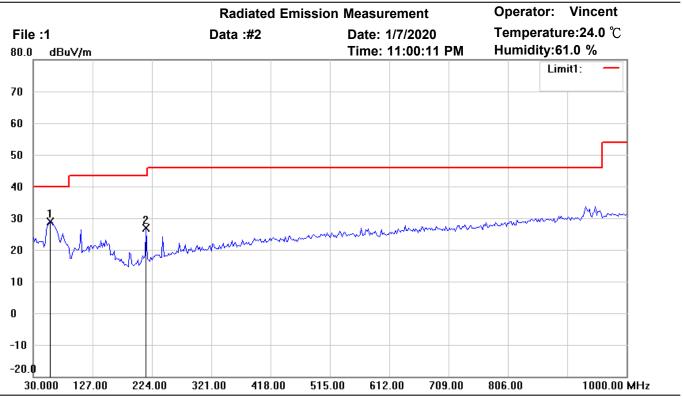
Condition: FCC_part 15 RE-Class C_30-1000MHz Polarization: Horizontal

Test Mode: TX 915MHz

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	214.6693	40.99	peak	-10.49	30.50	43.50	100	55	-13.00	
	269.0982	32.17	peak	-6.79	25.38	46.00	100	120	-20.62	



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Site: Chamber

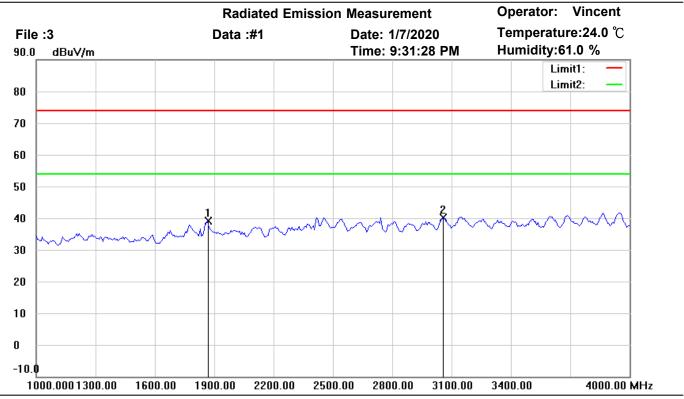
Condition: FCC_part 15 RE-Class C_30-1000MHz Polarization: Vertical

Test Mode: TX 915MHz

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	57.2144	40.26	peak	-11.30	28.96	40.00	100	255	-11.04	
	214.6693	37.30	peak	-10.49	26.81	43.50	100	120	-16.69	



Tel:+886-2-6606-8877 Fax:+886-2-6606-8879



Site: Chamber

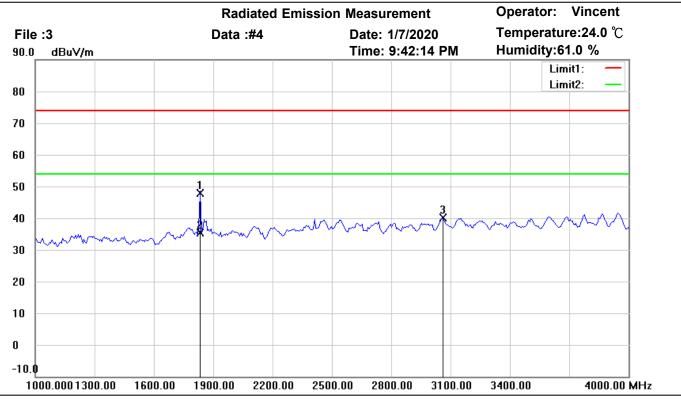
Condition: FCC_part 15 RE-Class C_Above 1GHz_PK Polarization: Horizontal

Test Mode: TX 915MHz

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	1865.732	46.88	peak	-7.63	39.25	74.00	150	280	-34.75	
*	3056.112	44.33	peak	-4.10	40.23	74.00	150	110	-33.77	



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Site: Chamber

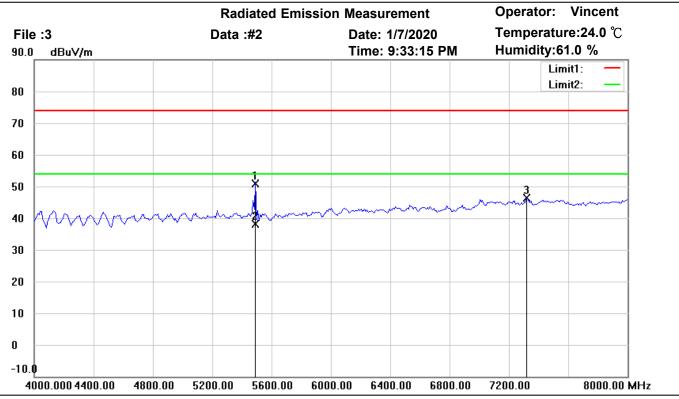
Condition: FCC_part 15 RE-Class C_Above 1GHz_PK Polarization: Vertical

Test Mode: TX 915MHz

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	1830.007	55.62	peak	-7.63	47.99	74.00	150	20	-26.01	
*	1830.007	43.12	AVG	-7.63	35.49	54.00	150	20	-18.51	
	3062.124	44.06	peak	-4.05	40.01	74.00	150	270	-33.99	



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Site: Chamber

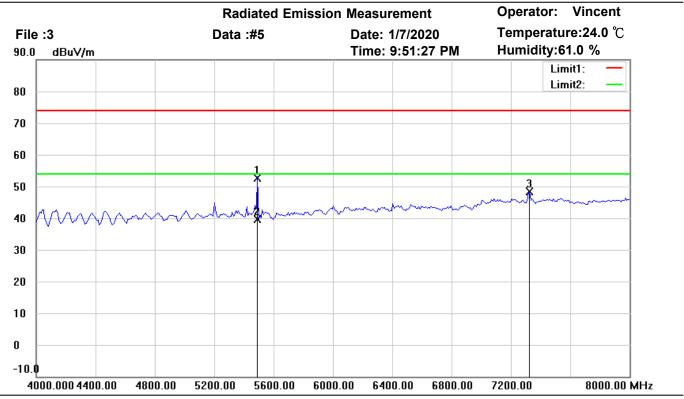
Condition: FCC_part 15 RE-Class C_Above 1GHz_PK Polarization: Horizontal

Test Mode: TX 915MHz

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	5488.878	51.02	peak	-0.15	50.87	74.00	150	185	-23.13	
*	5488.878	38.33	AVG	-0.15	38.18	54.00	150	185	-15.82	
	7318.637	42.91	peak	3.45	46.36	74.00	150	315	-27.64	



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Site: Chamber

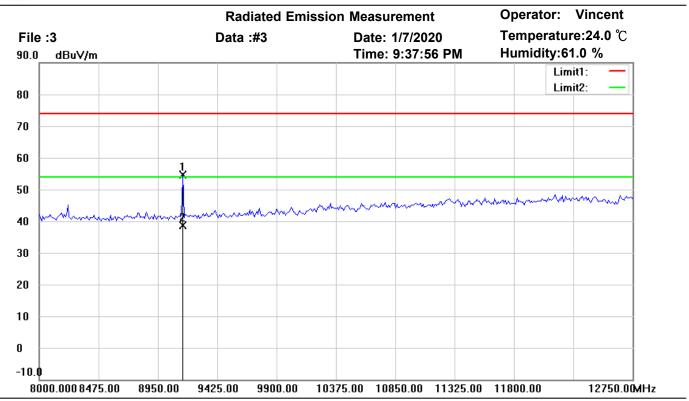
Condition: FCC_part 15 RE-Class C_Above 1GHz_PK Polarization: Vertical

Test Mode: TX 915MHz

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	5488.838	52.86	peak	-0.15	52.71	74.00	150	148	-21.29	
*	5488.838	39.82	AVG	-0.15	39.67	54.00	150	148	-14.33	
	7326.653	44.94	peak	3.48	48.42	74.00	150	110	-25.58	



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Site: Chamber

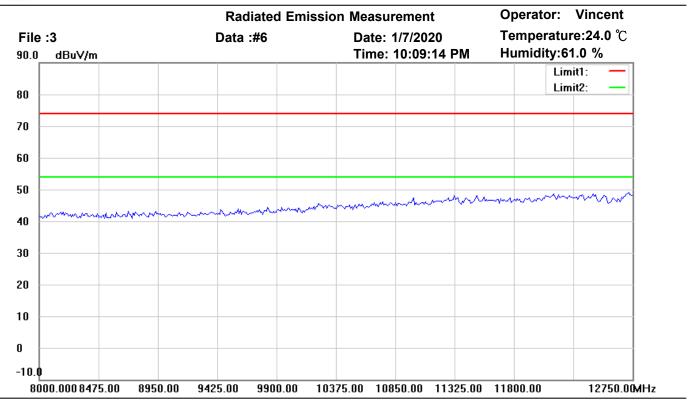
Condition: FCC_part 15 RE-Class C_Above 1GHz_PK Polarization: Horizontal

Test Mode: TX 915MHz

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9148.031	49.22	peak	5.51	54.73	74.00	150	232	-19.27	
*	9148.031	33.12	AVG	5.51	38.63	54.00	150	232	-15.37	



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Site: Chamber

Condition: FCC_part 15 RE-Class C_Above 1GHz_PK Polarization: Vertical

Test Mode: TX 915MHz

	Frequency	Reading	Detector	Corr. factor	Result	Limit	Ant.Pos	Tab.Pos	Margin	Comment
Mk.	(MHz)	(dBuV)		(dB/m)	(dBuV/m)	(dBuV/m)	(cm)	(deg.)	(dB)	