

FCC TEST REPORT

Under
FCC Part 15D for Isochronous UPCS Devices 1920–1930 MHz

PUT_Part 15 Unlicensed PCS portable Tx worn on body

Prepared For:

Aiphone Co., Ltd.

2-18, Jinno-cho, Atsuta-ku, Nagoya, Aichi, 456-8666, Japan

FCC ID: 2ALNEWL1MEE1

EUT: Wireless Video Intercom - Master Station

Model: WL-1ME.E1

July 28, 2018

Issue Date:

Original Report

Report Type:

Test Engineer: Jacky Huang

Review By: Apollo Liu / Manager

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Report Revision History

Report #	Version	Description	Issued Date
KSZ2018062101JFP	Rev.01	Initial issue of report	July 28, 2018

1. General Information

1. 1 Notes

The test results of this report relate exclusively to the test item specified in 1.6. The KMO Lab does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the KMO Lab.

1. 2 Testing Laboratory

Test Firm Name:	Ke Mei Ou Lab Co., Ltd.				
Test Firm Address:	2013-2016, 20th Floor, Business Center, Jiahui Xin Cheng, No 3027, Shen Nan				
Test Firm Address:	Road, Fu Tian, Shen Zhen, Guang Dong, P. R. China				
FCC Designation Number:	CN1532				
Test Firm Registration Number:	344480				
Internet:	www.kmolab.com				
Email:	kmo@kmolab.com				
ANSI-ASQ National Accreditation Board/ACLASS ISO/IEC 17025 Accredited Lab for telecommunication standards. The Registration Number is					
AT-1532. The testing quality system meets with ISO/IEC-17025 requirements, This approval results is accepted by MRA of ILAC.					

1. 3 Details of Applicant

Name: Aiphone Co., Ltd.

Address: 2-18, Jinno-cho, Atsuta-ku, Nagoya, Aichi, 456-8666, Japan

1. 4 Application Details

Date of Receipt of Application:

Date of Receipt of Test Item:

Date of Test:

June 21, 2018

June 21, 2018

June 21, 2018

June 21~July 28, 2018

1. 5 Details of Manufacturer

Name: Shenzhen Guo Wei Electronics Co., Ltd.

Address: No. 3038, Luosha Road, Liantang, Luohu District, Shenzhen, Guangdong, China

1. 6 Test Item

EUT Feature				
EUT Description:	Wireless Video Intercom - Master Station			
Brand Name:	Aiphone			
Model Name:	WL-1ME.E1			
EUT RF Technology:	☑PUT_Part 15 Unlicensed PCS portable Tx worn on body			
HW Version:	REV.0.4			
SW Version:	V6703USD			
EUT Stage:	Identical Prototype			
Note: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for				
more detailed description.				

Standard Product Specification							
Tx/Rx Frequency Range	1921.536~1928.448 MHz						
Number of Channels	5						
Carrier Frequency of Each Channel	0_1928.448; 1_1926.720; 2_1924.992; 3_1923.264; 4_1921.536						
Antenna Type / Gain	Internal Antenna / gain Ant0_ 0dBi Ant1_						
Type of Modulation	GFSK						
FUT O	☐ AC						
EUT Operational Condition	\square DC \rightarrow \square From Battery \rightarrow \square External AC adapter \square POE						

Specification of Accessory						
⊠ Rechargeable Battery(Ni-MH)	Brand Name	N/A	WLW-BT.E			
	Power Rating	2.4V 2000mAh				
⊠AC/DC Adapter (US)	Brand Name	Baolijin Model Name BLJ06W050040P				
	Power Rating	I/P: AC 100-240V~50/60Hz, 0.2; O/P:DC 5.0V /400mA				

1. 7 Applicable Standards

Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

FCC Part 15, Subpart D ANSI C63.17-2013

Note:

- All test items were verified and recorded according to the standards and without any deviation during the test. This EUT has also been tested and complied with the requirements of FCC 15 Part 15, Subpart B, recorded in a separate test report.

2. Technical Test

2. 1 Summary of Test Results

The EUT has been tested according to the following specifications:

FCC Rule FCC Part15, Subpart D	Test Type	Result	Notes
15.19(a)(3)	Labeling requirements	PASS	Complies
15.317, 15.203	Antenna Requirement	PASS	Complies
15.107(a), 15.207(a)	Power Line Conducted Emission	PASS	Complies
15.319(b)	Digital Modulation Techniques	PASS	Complies
15.303	Channel Frequencies	PASS	Complies
15.319(f)	Automatic discontinuation of transmission	PASS	Complies
15.323(f)	Carrier frequency stability	PASS	Complies
15.323(e)	Frame repetition stability	PASS	Complies
15.323(e)	Frame period and jitter	PASS	Complies
15.323(a)	Emission Bandwidth	PASS	Complies
N/A	Occupied Bandwidth	PASS	Complies
15.323(d)	In-band emissions	PASS	Complies
15.323(d)	Out-of-band emissions	PASS	Complies
15.319(c)(e), 15.31(e)	Output Power and Antenna Gain		Complies
15.319(d)	Power Spectral Density	PASS	Complies
15.323(c)(2)(5)(9)	Monitoring threshold, Least interfered channel	PASS	Complies
15.323(c)(1)	Monitoring of intended transmit window and maximum reaction time	PASS	Complies
15.323(c)(7)	Threshold monitoring bandwidth	PASS	Complies
15.323(c)(1)(5)(7)	Reaction time and monitoring interval	PASS	Complies
15.323(c)(4)(6)	Access criteria test interval	PASS	Complies
15.323(c)(4)(6)	Access Criteria functional test	PASS	Complies
15.323(c)(4)	Acknowledgements	PASS	Complies
15.323(c)(3)	Transmission duration	PASS	Complies
15.323(c)(10)	Dual access criteria	PASS	Complies
15.323(c)(11)(12)	Alterative monitoring interval	N/A	N/A, see note 1
15.319(g) 15.109(a), 15.209(a)	Spurious Emissions (Radiated)	PASS	Complies

^{1.} The client declares that the tested equipment does not implement this provision

2. 2 Measurement Uncertainty

Measurement	Measurement Frequency	
Conducted emissions	0.15MHz~30MHz	1.72
Radiated emissions	30MHz ~ 300MHz	3.88
Radiated emissions	300MHz ~1000MHz	3.86
Radiated emissions	>1000MHz	4.42

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

2. 3 Antenna Requirement

According to Section $1\overline{5}.203$, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

The EUT no antenna connector for internal antenna. This is permanently attached antenna and meets the requirements of this section.

2. 4 Description of Tested Device

The EUT is Door Camera PP Unit 1, Monitor FP Unit 1: Type 1 Wireless Video Door Phone

2. 5 EUT Modification

No modification by test lab.

3. Technical Characteristics Test

3. 1 Conducted Emission Test

3.1.1 Test Equipment

Please refer to Section 6 this report.

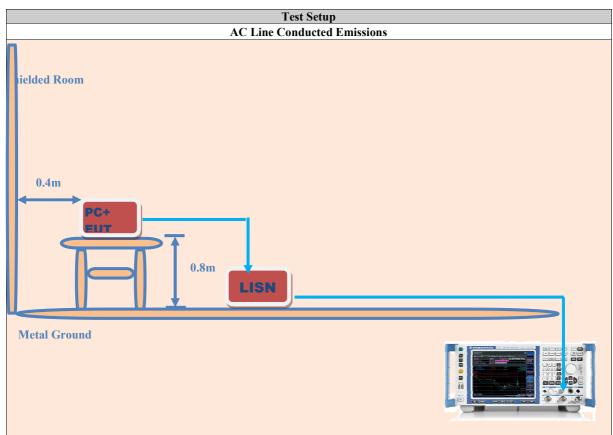
3.1.2 Test Procedure

Test Method

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination.

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission., the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.17:2013 on conducted measurement. Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

3.1.3 Test Setup



This test is applicable for radio equipment and/or ancillary equipment for fixed use powered by the AC mains. This test shall be performed on a representative configuration of the radio equipment, the associated ancillary equipment, or a representative configuration of the combination of radio and ancillary equipment. This test assesses the level of internally generated electrical noise present on the AC power input/output ports.

3.1.4 Configuration of the EUTThe EUT was configured according to ANSI C63.17:2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

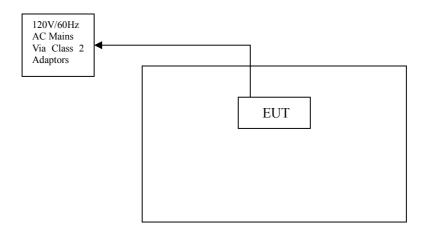
EUT Operation Test Setup							
Pre-Scan has been conducted to determine the worst-case mode from all possible combinations. Only the worst test mode							
data was reported.							
	Pre-Scan Mode						
Test Mode	Operating Description						
1	EUT power by Rechargeable Battery(Ni-MH)						
2	EUT power by AC/DC Adapter (US)						
	AC Conducted Emissions → Final						
Test Mode	Operating Description						
2	EUT power by AC/DC Adapter (US)						
	Conducted Emissions → Final						
Test Mode	Operating Description						
1	EUT power by Rechargeable Battery(Ni-MH)						
	Radiated Emissions → Final						
Test Mode	Operating Description						
1 EUT power by Rechargeable Battery(Ni-MH)							
Note: The test modes were carried out for all operation modes (include link and idle).							
The final test mode of the EUT was the worst test mode for Mode 1, and its test data was reported.							

Support Unit							
Device	Manufacturer	Model # Serial #	FCC ID	Cable			
-	-	-	-	-			

3.1.5 EUT Operating Condition

Operating condition is according to ANSI C63.17:2013.

- A. Setup the EUT and simulators as shown on follow.
- B. Enable RF signal and confirm EUT active.
- A. Modulate output capacity of EUT up to specification.



3.1.6 Conducted Power Line Emission Limits

FCC Part 15.207(a)

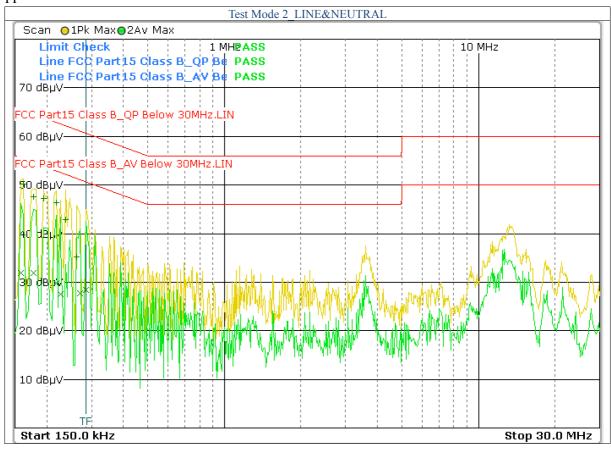
RSS-213 Clause 6.3, RSS-GEN Clause 8.8

Frequency Range (MHz)	Class A QP/AV (dBuV)	Class B QP/AV (dBuV)
0.15 - 0.5	79/66	66 –56/56 –46
0.5 - 5.0	73/60	56/46
5.0 - 30	73/60	60/50

Note: In the above table, the tighter limit applies at the band edges.

3.1.7 Conducted Power Line Test Result

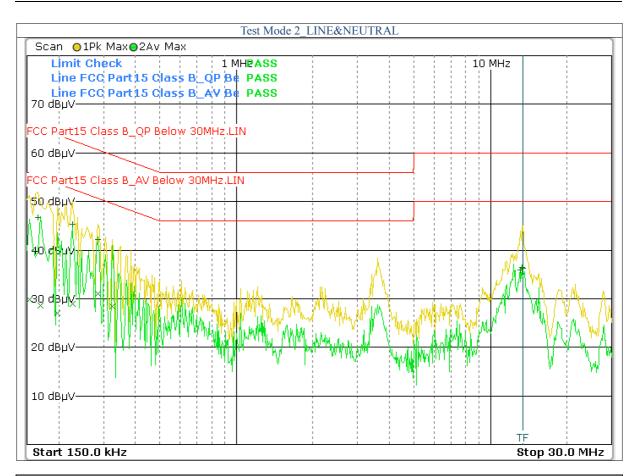
FP



	FCC15									
Frequency	1	el (dBuV)	Factor	1	n (dBuV)	Line/	Limit (1	U	(dBuV)
(MHz)	QP	AV	(dB)	QP	AV	Neutral	QP	AV	QP	AV
0.162	39.91	21.65	10.30	50.21	31.95	Line	65.36	55.36	-15.15	-23.41
0.178	37.23	21.59	10.30	47.53	31.89	Line	64.58	54.58	-17.05	-22.69
0.194	37.01	22.27	10.30	47.31	32.57	Line	63.86	53.86	-16.55	-21.29
0.218	36.00	19.44	10.30	46.30	29.74	Line	62.89	52.89	-16.59	-23.15
0.238	32.61	19.97	10.30	42.91	30.27	Line	62.17	52.17	-19.26	-21.90
0.262	24.92	18.05	10.30	35.22	28.35	Line	61.37	51.37	-26.15	-23.02
					FCC15					

Note:

- 1.Uncertainty in conducted emission measured is <+/ -2dB.
- 2. The emission levels of other frequencies were very low against the limit.
- 3.All Reading Levels are Quasi-Peak and Average value.
- 4.Emission = Meter Reading + Factor; Factor = Insertion Loss + Cable Loss.
- 5.Margin Value= Emission Level Limit Value.



	FCC15									
Frequency	Read Lev	el (dBuV)	Factor	Emissio	n (dBuV)	Line/ Limit (dBuV)		Margin(dBuV)		
(MHz)	QP	AV	(dB)	QP	AV	Neutral	QP	AV	QP	AV
0.166	36.45	19.53	10.30	46.75	29.83	Neutral	65.16	55.16	-18.41	-25.33
0.226	34.98	18.65	10.30	45.28	28.95	Neutral	62.60	52.60	-17.32	-23.65
0.286	31.95	20.75	10.30	42.25	31.05	Neutral	60.64	50.64	-18.39	-19.59
0.326	29.40	18.13	10.30	39.70	28.43	Neutral	59.55	49.55	-19.85	-21.12
13.342	25.67	11.78	10.80	36.47	22.58	Neutral	60.00	50.00	-23.53	-27.42
13.382	25.45	12.65	10.80	36.25	23.45	Neutral	60.00	50.00	-23.75	-26.55
FCC15										

Note:

- 1.Uncertainty in conducted emission measured is <+/ -2dB.
- 2. The emission levels of other frequencies were very low against the limit.
- 3.All Reading Levels are Quasi-Peak and Average value.
- 4.Emission = Meter Reading + Factor; Factor = Insertion Loss + Cable Loss.
- 5.Margin Value= Emission Level Limit Value.

3. 2 Emission Bandwidth & Occupied Bandwidth

3.2.1 Test Equipment

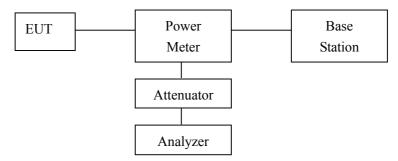
Please refer to section 6 this report.

3.2.2 Test Procedure

The width, in Hz, of the signal between two points, one below the carrier center frequency and one below the carrier center frequency, that is 26 dB down relative to the maximum level of the modulated carrier. It is based on the use of measurement instrumentation employing a peak detector function with an instrument resolution bandwidth approximately equal to 1% of the emission band-width of the device under measurement. [Extraction from 47 CFR 15, subpart D, 15.303 (C)]..

3.2.3 Test Setup

The emission bandwidth is measured in accordance with ANSI C63.17 sub-clause 6.1.3 using the setup below:



3.2.4 Configuration of The EUT

Same as section 3.1.4 of this report

3.2.5 EUT Operating Condition

Same as section 3.1.5 of this report

3.2.6 Limit

Requirements, FCC 15.323(a), RSS-213 Issue 3, clause 5.5:

The Emission Bandwidth B shall be larger than 50 kHz and less than 2.5 MHz.

No requirements for 6 and 12 dB Bandwidth, these values are only used for testing Monitoring Bandwidth if the Simple Compliance test fails (ANSI C63.17, clause 7.4).

RSS-GEN Issue 5, clause 6.7:

Occupied Bandwidth (99%) is measured according to RSS-GEN Issue 5, clause 6.7. No requirement specified.

3.2.7 Emission Bandwidth & Occupied Bandwidth Test Result

Ant 0

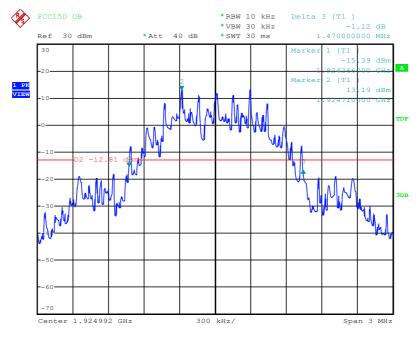
Channel	Center Frequency (MHz)	26 dB Emission Bandwidth (MHz)	Limit
Low	1921.536	1.470	50 kHz < OBW <2.5 MHz
Middle	1924.992	1.470	50 kHz < OBW <2.5 MHz
High	1928.448	1.470	50 kHz < OBW <2.5 MHz

Low Channel



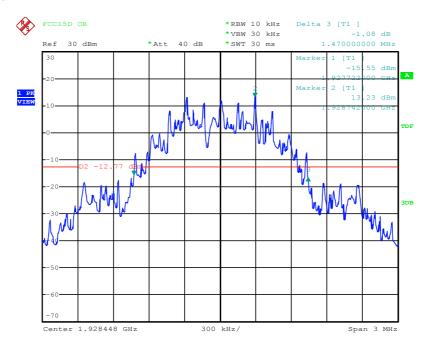
Date: 22.JUL.2018 17:11:15

Mid Channel



Date: 22.JUL.2018 17:27:19

High Channel

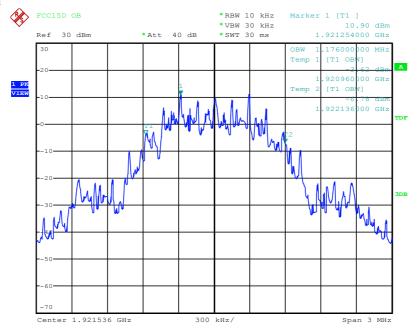


Date: 22.JUL.2018 17:20:28

Channel	Center Frequency (MHz)	99% Occupied Bandwidth (MHz)	Limit
Low	1921.536	1.176	N/A
Middle	1924.992	1.170	N/A
High	1928.448	1.176	N/A

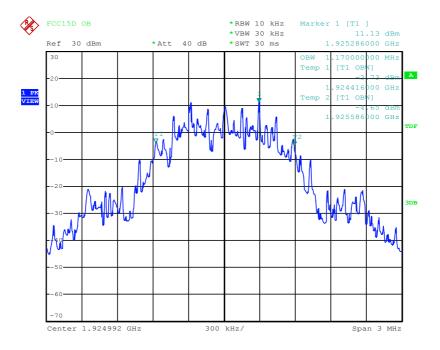
99% Occupied Bandwidth

Low Channel



Date: 22.JUL.2018 17:30:51

Mid Channel



Date: 22.JUL.2018 17:33:41

High Channel

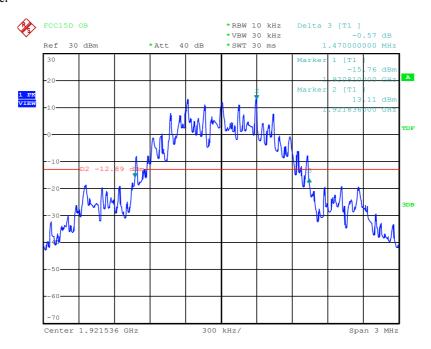


Date: 22.JUL.2018 17:37:16

Ant 1

Channel	Center Frequency (MHz)	26 dB Emission Bandwidth (MHz)	Limit
Low	1921.536	1.470	50 kHz < OBW <2.5 MHz
Middle	1924.992	1.470	50 kHz < OBW <2.5 MHz
High	1928.448	1.470	50 kHz < OBW <2.5 MHz

Low Channel



Date: 22.JUL.2018 17:47:35

Mid Channel



Date: 22.JUL.2018 18:23:25

High Channel

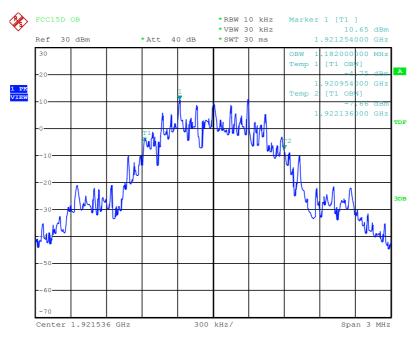


Date: 22.JUL.2018 18:29:18

Channel	Center Frequency (MHz)	99% Occupied Bandwidth (MHz)	Limit
Low	1921.536	1.182	N/A
Middle	1924.992	1.182	N/A
High	1928.448	1.182	N/A

99% Occupied Bandwidth

Low Channel



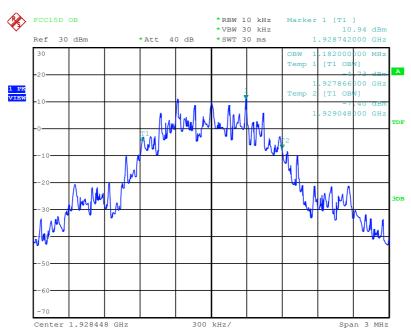
Date: 22.JUL.2018 18:06:46

Mid Channel



Date: 22.JUL.2018 18:09:23

High Channel



Date: 22.JUL.2018 18:12:45

3. 3 RF Output Power

3.3.1 Test Equipment

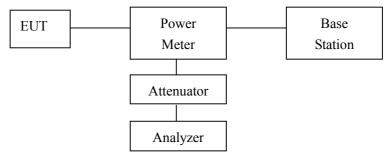
Please refer to section 6 this report.

3.3.2 Test Procedure

The peak power output as measured over an interval of time equal to the frame rate or transmission burst of the device under all conditions of modulation. Usually this parameter is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used [47 CFR 15, subpart D, 15.303].

The peak transmit power is according to ANSI C63.17 §6.1.2

3.3.3 Test Setup



3.3.4 Configuration of The EUT

Same as section 3.1.4 of this report

3.3.5 EUT Operating Condition

Same as section 3.1.5 of this report

3.3.6 Limit

FCC 15.319(c)(e):

Peak transmit power shall not exceed 100 microwatts multiplied by the square root of the Emission Bandwidth in Hertz. RSS-213 Issue 3, clause 5.6:

Peak transmit power shall not exceed 100 microwatts multiplied by the square root of the Occupied Bandwidth in Hertz. FCC 15.319(c)(e); RSS-213 Issue 3, clause 5.6:

The peak transmit power shall be reduced by the amount in decibels that the maximum directional gain of the antenna exceeds 3 dBi.

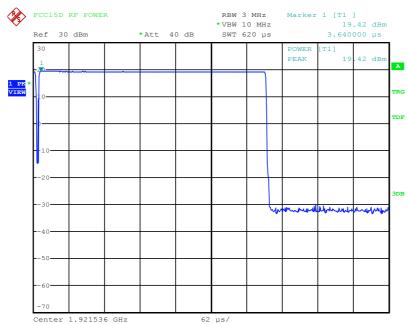
3.3.7 RF Output Power Test Result

FP

Ant0

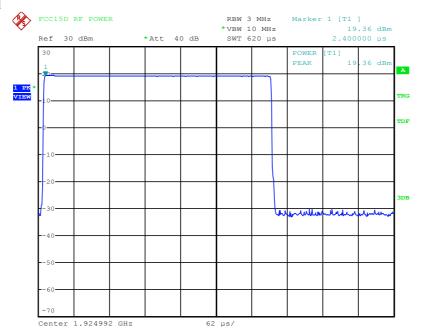
Channel	Frequency (MHz)	Peak Transmit Power (dBm)	FCC/RSS Limit (dBm)
Low	1921.536	19.42	20.84 / 20.35
Middle	1924.992	19.36	20.84 / 20.34
High	1928.448	19.30	20.84 / 20.35
Conducted Peak	Transmit Power Limit: 100 µW × SQRT ((B) where B is measured Emission BW or	Occupied BW in Hz

Low Channel



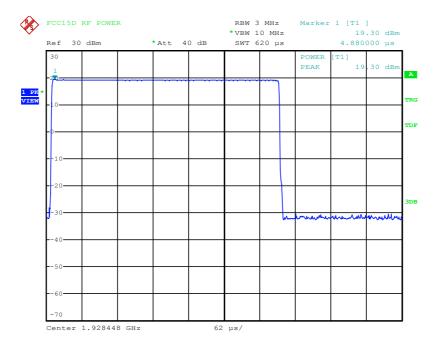
Date: 23.JUL.2018 16:05:14

Mid Channel



Date: 23.JUL.2018 16:06:16

High Channel

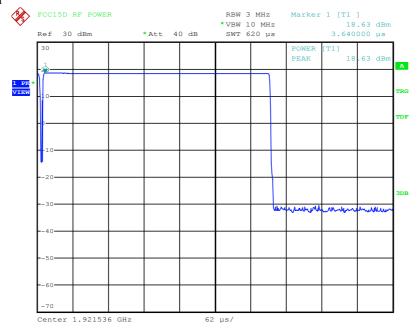


Date: 23.JUL.2018 16:08:01

Ant1

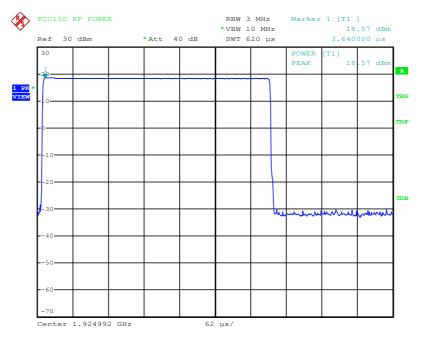
Channel	Frequency (MHz)	Peak Transmit Power (dBm)	FCC/RSS Limit (dBm)		
Low	1921.536	18.63	20.84 / 20.36		
Middle	1924.992	18.57	20.84 / 20.36		
High 1928.448		18.60	20.84 / 20.36		
Conducted Peak Transmit Power Limit: 100 µW × SQRT (B) where B is measured Emission BW or Occupied BW in Hz					

Low Channel



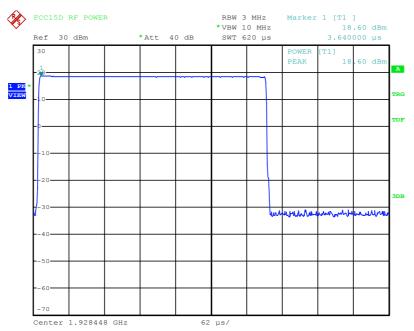
Date: 23.JUL.2018 16:03:38

Mid Channel



Date: 23.JUL.2018 16:12:20

High Channel



Date: 23.JUL.2018 16:01:04

3. 4 Power Spectral Density

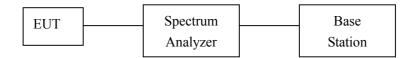
3.4.1 Test Equipment

Please refer to section 6 this report.

3.4.2 Test Procedure

The power spectral density is measured in accordance with ANSI C63.17 Clause 6.1.5.

3.4.3 Test Setup



3.4.4 Configuration of The EUT

Same as section 3.1.4 of this report

3.4.5 EUT Operating Condition

Same as section 3.1.5 of this report

3.4.6 Limit

Requirements, FCC 15.319(d), RSS-213 Issue 3, clause 5.7

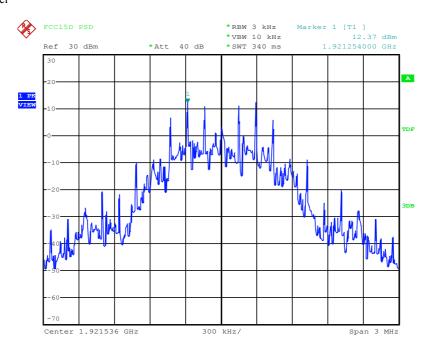
The Power Spectral Density shall be less than 3 mW (4.77 dBm) when averaged over at least 100 sweeps.

3.4.7 Power Spectral Density Test Result

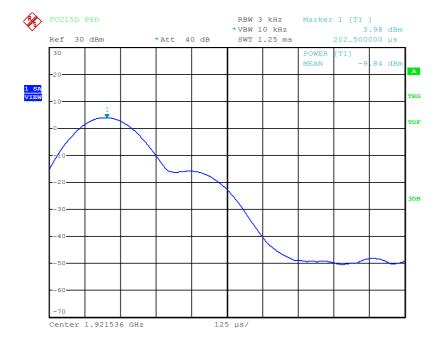
FP Ant0

Channel	Evaguaray (MHz)	Power Spectral Density		Limit(mW/3kHz)	Dogult
Channel	Frequency(MHz)	(dBm/3kHz)	(dBm/3kHz)	Limit(mw/skmz)	Result
Low	1921.536	12.37	-9.84	3mW/4.77dBm	Pass
Middle	1924.992	13.58	-9.76	3mW/4.77dBm	Pass
High	1928.448	12.27	-8.79	3mW/4.77dBm	Pass

Low Channel

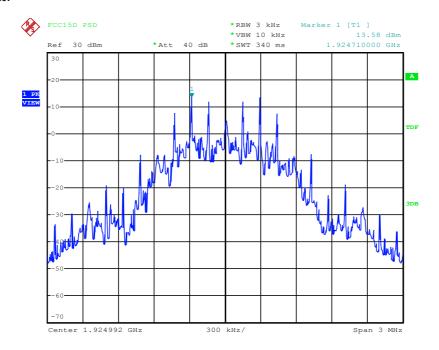


Date: 23.JUL.2018 16:28:03

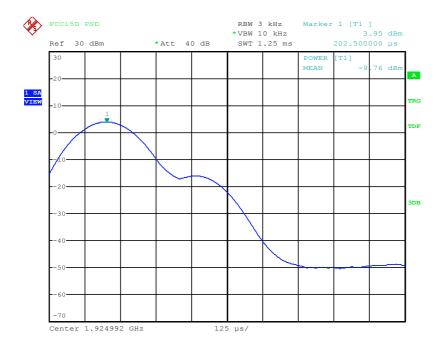


Date: 23.JUL.2018 16:29:10

Mid Channel

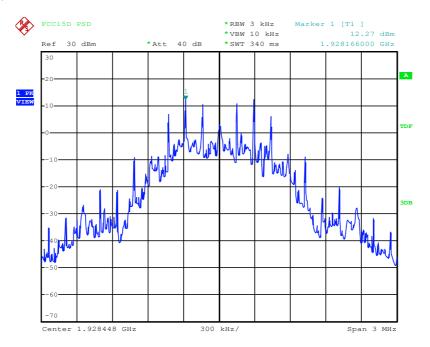


Date: 23.JUL.2018 16:31:28

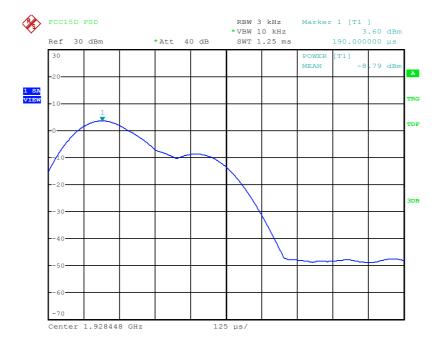


Date: 23.JUL.2018 16:33:11

High Channel



Date: 23.JUL.2018 16:35:38

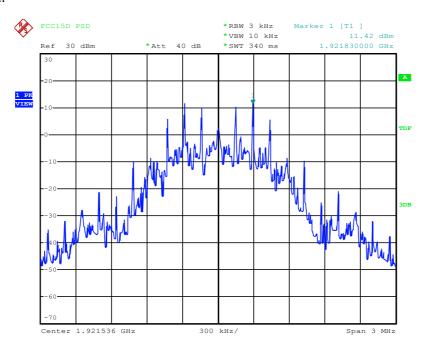


Date: 23.JUL.2018 16:41:59

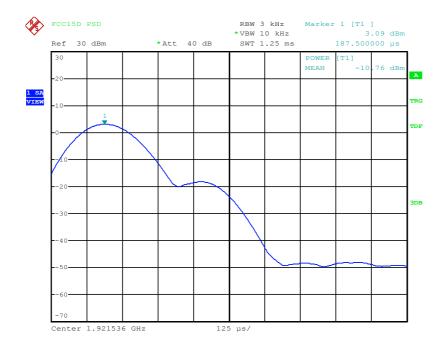
Ant1

Channel	Evacuaray (MHz)	Power Spec	tral Density	Limit(mW/3kHz)	Result
	Frequency(MHz)	(dBm/3kHz)	(dBm/3kHz)	Limit(mw/skriz)	
Low	1921.536	11.42	-10.76	3mW/4.77dBm	Pass
Middle	1924.992	12.62	-9.01	3mW/4.77dBm	Pass
High	1928.448	11.54	-9.57	3mW/4.77dBm	Pass

Low Channel

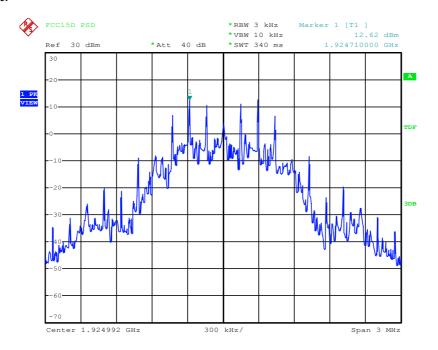


Date: 23.JUL.2018 16:21:54

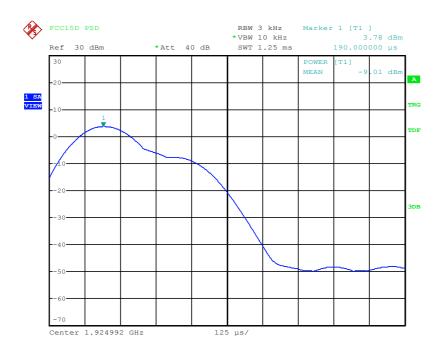


Date: 23.JUL.2018 16:24:35

Mid Channel

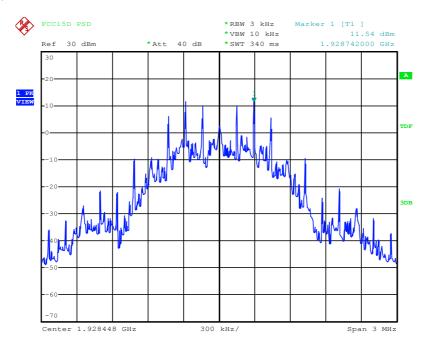


Date: 23.JUL.2018 16:15:29

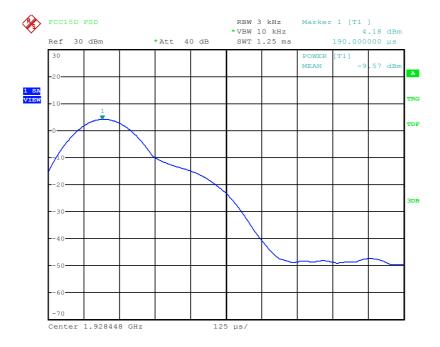


Date: 23.JUL.2018 16:17:02

High Channel



Date: 23.JUL.2018 16:18:47



Date: 23.JUL.2018 16:20:04

3.5 Emission Inside and Outside the Sub-band

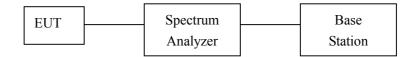
3.5.1 Test Equipment

Please refer to section 6 this report.

3.5.2 Test Procedure

According to ANSI C63.17 Clause 6.1.6.

3.5.3 Test Setup



3.5.4 Configuration of The EUT

Same as section 3.1.4 of this report

3.5.5 EUT Operating Condition

Same as section 3.1.5 of this report

3.5.6 Limit

In-Band Unwanted Emissions, Conducted Requirements, FCC 15.323(d), RSS-213 Issue 3, clause 5.8.2: $B < f \leq 2B$: at least 30 dB below max. permitted peak power $2B < f \leq 3B$: at least 50 dB below max. permitted peak power $3B < f \leq UPCS$ Band Edge: at least 60 dB below max. permitted peak power

Out-of-band Emissions, Conducted Requirements, FCC 15.323(d), RSS-213 Issue 3, clause 5.8.1: $f\leqslant 1.25 MHz$ outside UPCS band : \leqslant -9.5dBm $1.25 MHz\leqslant f\leqslant 2.5MHz$ outside UPCS band : \leqslant -29.5 dBm $f\geqslant 2.5MHz$ outside UPCS band : \leqslant -39.5 dBm

3.5.7 Emission Inside and Outside the Sub-band Test Result