

Dongguan Flyfire Technology Co.,Ltd.

TEST REPORT

SCOPE OF WORK EMC TESTING-RCOWL

REPORT NUMBER 210406158GZU-001

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Intertek Report No:	:	210406158GZU-001
FCC ID:		2AZKZ-FLRFOP9K20

Test standards

47 CFR PART 15 Subpart C: 2019 section 15.247

Sample Description

Product	:	Remote controller
Model No.	:	RCOWL
Electrical Rating	:	DC5V
Serial No.	:	Not Labeled
Date Received	:	27 April 2021
Date Test	:	06 May 2021-24 September 2021
Conducted		

Prepared and Checked By

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Elena Lei Engineer Approved By:

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Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Room 02, & 101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2. Caipin Road, Science City, GETDD, Guangzhou, Guangdong, China

Version: 10 June 2019

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1.0 **TEST RESULT SUMMARY**

Test Item	Test Requirement	Test Method	Result
Antenna Requirement	FCC PART 15 C section 15.247 (c) and Section 15.203	FCC PART 15 C section 15.247 (c) and Section 15.203	PASS
6 dB Bandwidth (DTS bandwidth)	FCC PART 15 C section 15.247 (a)(2)	ANSI C63.10: Clause 11.8	PASS
Maximum Peak Conducted Output Power	FCC PART 15 C section 15.247(b)(3)	ANSI C63.10: Clause 11.9.1.1	PASS
Peak Power Spectral Density	FCC PART 15 C section 15.247(e)	ANSI C63.10: Clause 11.10.2	PASS
Out of Band Conducted Emissions	FCC PART 15 C section 15.209 &15.247(d)	ANSI C63.10: Clause 11.11	PASS
Out of Band Radiated Emission	FCC PART 15 C section 15.209 &15.247(d)	ANSI C63.10: Clause 11.11, 6.4, 6.5 and 6.6	N/A
Radiated Emissions in Restricted Bands	FCC PART 15 C section 15.209 &15.247(d)	ANSI C63.10: Clause 11.12.1, 6.4, 6.5 and 6.6	PASS
Band Edges Measurement	FCC PART 15 C section 15.247 (d) &15.205	ANSI C63.10: Clause 11.11 and 11.13	PASS
Conducted Emissions at Mains Terminals	FCC PART 15 C section 15.207	ANSI C63.10: Clause 6.2	PASS
Remark: N/A: not applicable. Refer to	the relative section for the	details	

N/A: not applicable. Refer to the relative section for the details. EUT: In this whole report EUT means Equipment Under Test.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radio Frequency.

ANSI C63.10: the detail version is ANSI C63.10:2013 in the whole report



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2.0 General Description

2.1 Product Description

Operating	909.125 MHz to 911.125 MHz
Frequency:	
Type of Modulation:	LORA
Number of Channels	3
Channel Separation:	1 MHz
Antenna Type	FPC integrate
Function:	Remote control for OWL
EUT Power Supply:	DC 5V
Power cord:	Standard USB-A to USB-C

EUT channels and frequencies list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	909.125	3	911.125
2	910.125		

2.2 Related Submittal(s) Grants

This is an application for certification of: DTS- Part 15 Digital Transmission Systems

Remaining portions are subject to the following procedures: 1. Receiver portion: subjected to SDoC.

2.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10. Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans and final tests were performed in the semi-anechoic chamber to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise.



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2.4 Test Facility

All tests were performed at:

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Room102/104, No 203, KeZhu Road, Science City, GETDD Guangzhou, China Except Conducted Emissions was performed at: Room 02, & 101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2. Caipin Road, Science City, GETDD, Guangzhou, Guangdong, China

A2LA Certificate Number 0078.10

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch is accredited by A2LA and Listed in FCC website. FCC accredited test labs may perform both Certification testing under Parts 15 and 18 and Declaration of Conformity testing.

3.0 System Test Configuration

3.1 Justification

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, AC power line was manipulated to produce worst case emissions. It was powered by AC 120V supply.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. The spurious emissions more than 20 dB below the permissible value are not reported.

For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in the following table:

Lowest frequency generated in the device	Upper frequency range of measurement	
9 kHz to below 10 GHz	10th harmonic of highest fundamental frequency or to	
	40 GHz, whichever is lower	
At or above 10 GHz to below	5th harmonic of highest fundamental frequency or to	
30 GHz	100 GHz, whichever is lower	
	5th harmonic of highest fundamental frequency or to	
At or above 30 GHz	200 GHz, whichever is lower, unless otherwise	
	specified	

Frequency range of radiated emission measurements



Number of fundamental frequencies to be tested in EUT transmit band

Frequency range in which device	Number of	Location in frequency
operates	frequencies	range of operation
1 MHz or less	1	Middle
1 MHz to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom

3.2 EUT Exercising Software

Switch frequency points by the remote control button.

3.3 Special Accessories

No special accessories used.

3.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	6dB Bandwidth	2.3%
2	Carrier Frequencies Separated	2.3%
3	Dwell Time	1.2%
4	Maximum Peak Conducted Output Power	1.5dB
5	Peak Power Spectral Density	1.5dB
6	Out of Band Conducted Emissions	1.5dB
7	Band edges measurement	1.5dB
		4.7 dB (25 MHz-1 GHz)
8	Radiated Emissions	4.8 dB (1 GHz-18 GHz)
0		5.21dB (18GZH-26GHz)
9	Conducted Emissions at Mains Terminals	2.58dB
10	Temperature	0.5 °C
11	Humidity	0.4 %
12	Time	1.2%

The measurement uncertainty describes the overall uncertainty of the given measured value during the operation of the EUT.

Measurement uncertainty is calculated in accordance with ETSI TR 100 028-2001. The measurement uncertainty is given with a confidence of 95%, k=2.



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When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

Uncertainty and Compliance – Unless the standard specifically states that measured values are to be extended by the measurement uncertainty in determining compliance, all compliance determinations are based on the actual measured value

3.5 Equipment Modification

Any modifications installed previous to testing by Dongguan Flyfire Technology Co.,Ltd. will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Guangzhou Branch.

3.6 Support Equipment List and Description

This product was tested with corresponding support equipment as below:

Support Equipment

Description	Manufacturer	Model No.	SN/Version	Supplied by
Adapter	apple	A1401	100-240~, 50/60Hz, 0.5A	Intertek

Cable

Description	Model No.	Connector type	Cable length/type	Supplied by
Antenna cable	RF-01	SMA	0.2 m	Intertek
USB extension cord	USB-01	USB	1.0 m	WIK

Remark:

USB cable is used for power supply.



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4.0 Measurement Results

4.1 Antenna Requirement

Standard requirement:

15.203 requirement:

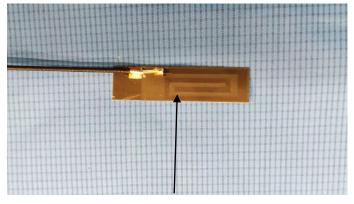
For intentional device. According to 15.203 an intentional radiator shall be designed to Ensure that no antenna other than that furnished by the responsible party shall be used with the device.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz bands that are used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna

The antenna is an integral antenna and no consideration of replacement. The best case gain of the antenna is 3 dBi as declared by applicant.

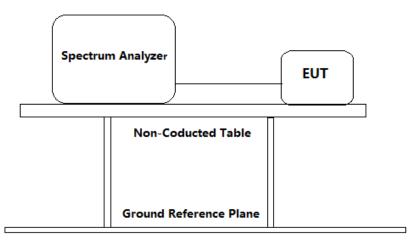




4.2 6 dB Bandwidth (DTS bandwidth)

Test Requirement: Test Method:	FCC Part 15 C section 15.247 (a)(2)Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5MHz, and 5725- 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10: Clause 11.8
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

- 1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable (cable loss =1dB, with a 10dB attenuator) from the antenna port to the spectrum.
- 2. Set the spectrum analyzer:
 - a) Set RBW = 100 kHz
 - b) Set the VBW \geq [3 × RBW]
 - c) Detector = peak.
 - d) Trace mode = max hold.
 - e) Sweep = auto couple
 - f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

- h) Span=2*BW~5*BW
- 3. Repeat until all the test status is investigated.



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4. Report the worst case.

Used Test Equipment List

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

Channel No.	Frequency (MHz)	Data Rate	Measured 6dB bandwidth (MHz)	Limit	Result
1	909.125	9.6Kbps	0.6339		Pass
2	910.125	9.6Kbps	0.6281	≥500KHz	Pass
3	911.125	9.6Kbps	0.6281		Pass

Test result: The unit does meet the FCC requirements.



Result plot as follows:

Channel 1: 909.125 MHz

Spectrum	Sp	ectrum 2	×						
Ref Level	21.00 dBm	Offset 1	1.00 dB 🧃	• RBW 100 kH	Iz				
🛢 Att	20 dB	SWT	18.9 µs 🧉	• VBW 300 kH	z Mode	Auto F	FT		
⊖1Pk Max									
					M1	1[1]		909	11.62 dBm 25240 MHz
10 dBm			-T1/		<u> </u>	IB V	2	505.	6.00 dB
			7		В	× 1	ζ	633.9000	000000 kHz
0 dBm			<u> </u>		Q	factor	\sum_{i}	1	1434.5
-10 dBm		/							
-20 dBm									
-30 dBm		_							
	~								
-40 dBm									
-50 dBm									
-60 dBm									
-70 dBm									
-70 0011									
CF 909.125	MHz			691	ots		1	Spa	n 2.0 MHz
Marker									
Type Ref	Trc	X-value		Y-value	Func	tion	Fun	ction Result	r
M1	1	909.252	4 MHz	11.62 dBr	n ndB	down			633.9 kHz
T1	1	908.809		5.74 dBr		ndB			6.00 dB
T2	1	909.443	4 MHz	5.44 dBr	n Q	factor			1434.5

Channel 2: 910.125 MHz

Spectru	m s	pectrum 2	×						
Ref Leve	el 21.00 dB	m Offset 1	.1.00 dB 🔵	RBW 100 kH	z				
🗎 Att	20 0	ib SWT	18.9 µs 👄	VBW 300 kH	z Mode	Auto F	FT		
⊖1Pk Max									
			M1		M	1[1]			11.56 dBm
								909.	88770 MHz
10 dBm					no	<u>v</u>	2		6.00 dB
					B			628.1000	000000 kHz
0 dBm					Q	factor	$\sum_{i=1}^{n}$	1	1448.7
							X		
-10 dBm—									
00 JD									
-20 dBm—									
-30 dBm—								\sim	
-30 uBm—									
-40 dBm-									<u> </u>
-40 uBm—									
-50 dBm									
-30 ubiii—									
-60 dBm									
-00 0011									
-70 dBm—									
-) o abiii									
CF 910.12				(01)				0	
	zəmitz			691 p	nts –			spa	n 2.0 MHz
Marker	ef Trc	X-value	. 1	Y-value	Func	tion 1	E.m.	ction Result	
Type Ro M1	er Irc 1	<u>x-value</u> 909.883		<u>11.56</u> dBn		down	Fund	LOON RESULT	628.1 kHz
T1	1	909.815		5.44 dBn		ndB			6.00 dB
T2	1	910.443		5.42 dBn		factor			1448.7



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Channel 3:911.125 MHz

Spectr	um	S	pectrum 2	×								
Ref Le	vel 2	21.00 dB	m Offset 1	.1.00 dB 🔵	RBW 100 k	Hz						
🛢 Att		20 c	IB SWT	18.9 µs 👄	VBW 300 k	Hz	Mode	Auto F	FT			
⊖1Pk Ma	х											
							M	1[1]				11.68 dBm
				M1							910.	.89060 MHz
10 dBm-				71			n	IB V	2			6.00 dB
				7			By	v Ì	$\langle -$		628.1000	000000 kHz
0 dBm			-	-/			Q	factor	\mathbf{X}			1450.3
-10 dBm-	_			/					-			
				í l						\searrow		
-20 dBm-										\rightarrow		
											h	
-30 dBm-											<u> </u>	
	-											~~~~~
-40 dBm-												
-50 dBm-												
-60 dBm-												
-70 dBm-												
70 abin												
												L
CF 911.	125	MHZ			691	pts					Spa	n 2.0 MHz
Marker												
	Ref	Trc	X-value		Y-value		Func			Fund	ction Result	
M1		1	910.890		11.68 dB		ndB	down				628.1 kHz
T1		1	910.815		5.67 dB			ndB				6.00 dB
T2		1	911.443	34 MHz	5.50 dB	Sm	Qt	actor				1450.3

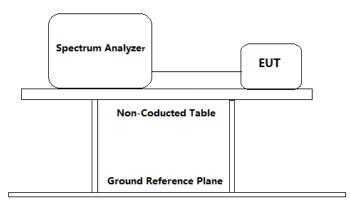


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4.4 Maximum Average Conducted Output Power

Test Requirement:	FCC Part 15 C section 15.247
	(b)(3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.
	Except as shown in paragraph (c) of this section, if transmitting
	antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be
	reduced below the stated values in paragraphs (b) (1), (b) (2), and
	(b) (3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
Test Method:	ANSI C63.10: Clause 11.9.1.1(RBW \geq DTS bandwidth)
Test Status:	Pre-Scan has been conducted to determine the worst-case mode
	from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity
	architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

- 1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable (cable loss =1 dB, with a 10dB attenuator) from the antenna port to the spectrum.
- 2. Set the spectrum analyzer:
 - a) Set the RBW = 2 MHz (RBW \geq DTS bandwidth).

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b) Set the VBW≥[3 × RBW].
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- c) Set the span \geq 10 MHz[3 × RBW].
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.
- 3. Repeat until all the test status is investigated.
- 4. Report the worst case.



Used Test Equipment List

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

Test result:

Channel No.	Frequency (MHz)	Data Rate	Measured Channel Power (dBm)	Limit	Result
1	909.125	9.6kbps	9.01	1W	Pass
2	910.125	9.6kbps	8.28	(30dBm)	Pass
3	911.125	9.6kbps	8.39		Pass

The unit does meet the FCC requirements.

Result plot as follows:

909.125 MHz:

Spectrum	Spectrun	n 2 🗶 🏹 Si	bectrum 3	×				
Ref Level 21.0		et 11.00 dB 👄						
Att	20 dB SW 1	F 1 ms 👄	VBW 10 MHz	Mode	Auto Sweep			
1Pk Max								
				M	1[1]			9.01 dBn
			м	1	1		909	9.2550 MH: I
10 dBm					L			
						<u> </u>		
0 dBm								
-10 dBm								
-20 dBm								
-20 ubiii								
-30 dBm								
-40 dBm								
-50 dBm								
-60 dBm								
00 40								
70 d0								
-70 dBm								
CF 909.125 MHz	2		691 p	ts			Span	10.0 MHz

910.125 MHz:



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Spectrun	n Spe	ctrum 2	× Sp	bectrum 3	X				
	l 21.00 dBm		1.00 dB 😑						
Att	20 dB	SWT	1 ms 😑	VBW 10 MH	Iz Mode	Auto Sweep	1		
●1Pk Max									
					м	1[1]		910	8.28 dBm).3280 MHz
10 dBm					M1				
					_				
0 dBm								<u> </u>	
-10 dBm									
-20 dBm									
-20 ubiii									
-30 dBm									
-40 dBm									
-50 dBm									
oo abiii									
-60 dBm									
-70 dBm									
CF 910.12	5 MHz			691	nts	I	I	Span	10.0 MHz
					<u> </u>			- 241	

911.125 MHz:

-10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm	Spectrum								
IPk Max M1[1] 8.39 dBm 0 dBm M1 911.2840 MHz 0 dBm M1 911.2840 MHz 10 dBm M1 911.2840 MHz -10 dBm M1 911.2840 MHz -20 dBm M1 M1 -30 dBm M1 M1 -70 dBm M1 M1									
M1[1] 9.39 dBm 10 dBm M1 0 dBm M1 -10 dBm -0 -20 dBm -0 -30 dBm -0 -30 dBm -0 -70 dBm -0		20 dB SWT	1 ms 👄	VBW 10 MH	z Mode	Auto Sweep			
911.2840 MHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -70	●1Pk Max								
10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -70 dBm -70 dBm -70 dBm					м	1[1]		911	
0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -60 dBm -70 dBm -70 dBm	10 dBm				M1				
-10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm	10 0.0						_		
-20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm	0 dBm		-						
-20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm									
-30 dBm	-10 dBm							~	
-30 dBm	20 dBm								- John Start
-40 dBm	-20 ubiii								
-50 dBm	-30 dBm								
-50 dBm									
-60 dBm	-40 dBm								
-60 dBm									
-70 dBm	-50 dBm								
	-60 dBm								
	-70 dBm								
CF 911.125 MHz 691 pts Span 10.0 MHz	CF 911.125 MI	Hz		691	pts			 Span	10.0 MHz

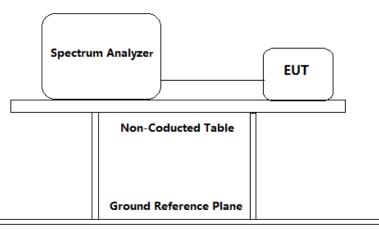


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4.5 Peak Power Spectral Density

Test Requirement:	FCC Part 15 C section 15.247 (e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with
Test Method:	the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density. ANSI C63.10: Clause 11.10.2
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Followin1g channel(s) was (were) selected for the final test as listed below.
Test Configurations	

Test Configuration:



Test Procedure:

- 1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable(cable loss =1dB, with a 10dB attenuator) from the antenna port to the spectrum analyzer or power meter.
- 2. Set the spectrum analyzer:
 - a) Set analyzer center frequency to DTS channel center frequency.
 - b) Set the span= 1.5 × DTS bandwidth.
 - c) Set the RBW to 3 kHz \leqslant RBW \leqslant 100 kHz.
 - d) Set the VBW \geq [3 × RBW].
 - e) Detector = peak.
 - f) Sweep time = auto couple.
 - g) Trace mode = max hold.
 - h) Allow trace to fully stabilize.
 - i) Use the peak marker function to determine the maximum amplitude level within



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the RBW.

- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.
- 3. Measure the Power Spectral Density of the test frequency with special test status.
- 4. Repeat until all the test status is investigated.
- 5. Report the worst case.

Used Test Equipment List

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

Test result:

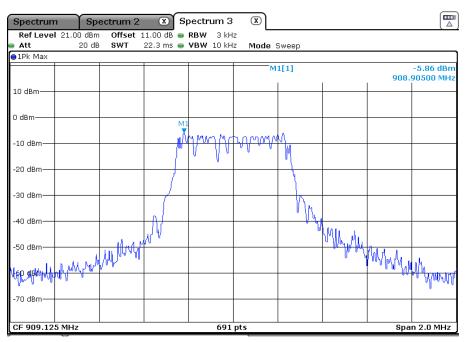
Channel No.	Frequency (MHz)	Data Rate	Measured Peak Power Spectral Density (dBm/3kHz)	Limit	Result
1	909.125	9.6kbps	-5.86		Pass
2	910.125	9.6kbps	-3.97	8dBm/	Pass
3	911.125	9.6kbps	-4.05	3 KHz	Pass



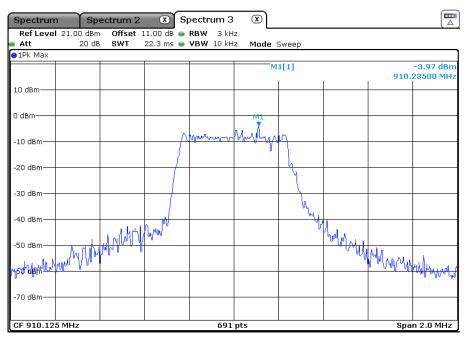
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Result plot as follows:

909.125 MHz:



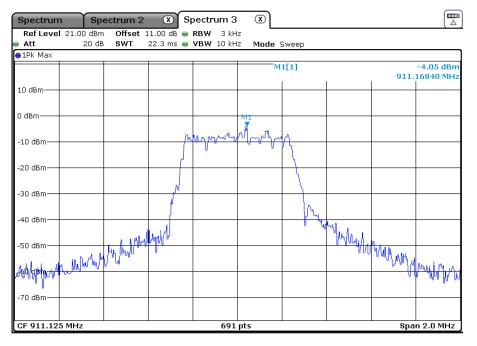
910.125 MHz:





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911.125 MHz:

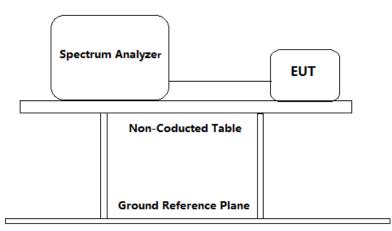


4.6 Out of Band Conducted Emissions

	(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating. The radio frequency power that is produced by the intentional radiator shall be at least 20 dB 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. Provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30dB instead of 20dB.
Test Method:	ANSI C63.10: Clause 11.11
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:





Test Procedure:

- Remove the antenna from the EUT and then connect a low RF cable (cable loss =1dB, with a 10dB attenuator) from the antenna port to the spectrum analyzer or power meter.
- 2. Establish a reference level by using the following procedure:
 - a) Set instrument center frequency to DTS channel center frequency.
 - b) Set the span to \geq 1.5 imes DTS bandwidth.
 - c) Set the RBW = 100 kHz.
 - d) Set the VBW \geq [3 × RBW].
 - e) Detector = peak.
 - f) Sweep time = auto couple.
 - g) Trace mode = max hold.
 - h) Allow trace to fully stabilize.
 - i) Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level

3. Emission level measurement

a) Set the center frequency and span to encompass frequency range to be measured.

- b) Set the RBW = 100 kHz.
- c) Set the VBW \geq [3 × RBW].
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.
- 4. Measure the Conducted unwanted Emissions of the test frequency with special test status.
- 5. Repeat until all the test status is investigated.
- 6. Report the worst case.

Used Test Equipment List

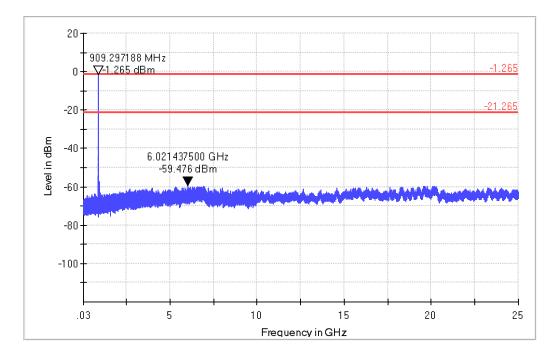
Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

Result plot as follows:

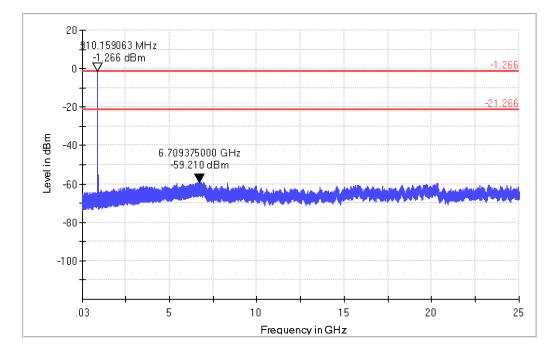
Channel 1: 909.125 MHz

Version: 10 June 2019





In any 100kHz bandwidth, the Conducted Spurious Emissions from 30 MHz to 25 GHz were greater than 20dB below the peak emission within the band that contains the highest level of the desired power.



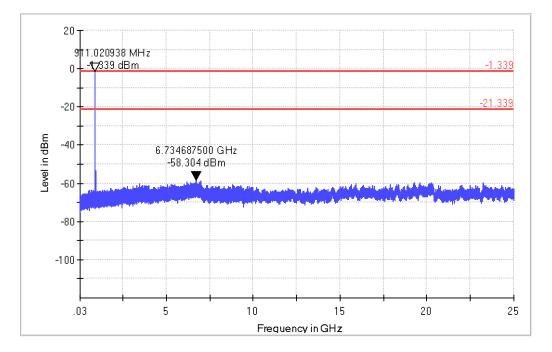
Channel 2: 910.125 MHz

In any 100kHz bandwidth, the Conducted Spurious Emissions from 30 MHz to 25 GHz were greater than 20dB below the peak emission within the band that contains the highest level of the desired power.



TEST REPORT

Channel 3: 911.125 MHz



In any 100kHz bandwidth, the Conducted Spurious Emissions from 30 MHz to 25 GHz were greater than 20dB below the peak emission within the band that contains the highest level of the desired power.



TEST REPORT

4.7 Out of Band Radiated Emissions

For out of band radiated emissions into Non-Restricted Frequency Bands were performed at a 3m separation distance to determine whether these emissions complied with the 20dB attenuation requirement.

- [×] Not required, since all emissions are more than 20dB below fundamental
- [] See attached data sheet

4.8 Radiated Emissions in Restricted Bands

Test Requirement:	FCC Part 15 C section 15.247	
	(d) In addition, radiated emissions which fall bands, as defined in Section 15.205(a), must radiated emission limits specified in Section 2 Section 15.205(c)).	also comply with the
Test Method:	ANSI C63.10: Clause 11.12.1, 6.4, 6.5 and 6.6	
Test Status:	Pre-Scan has been conducted to determine t from all possible combinations between avai data rates and antenna ports (if EUT with and architecture). Following channel(s) was (were final test as listed below.	lable modulations, tenna diversity
Test site:	Measurement Distance: 3m (Semi-Anechoic	Chamber)
Limit:	40.0 dB μ V/m between 30MHz & 88MHz;	
	43.5 dB μ V/m between 88MHz & 216MHz;	
	46.0 dB μ V/m between 216MHz & 960MHz;	
	54.0 dBμV/m above 960MHz.	
Detector:	For Peak and Quasi-Peak value: RBW =	
	1 MHz for $f \ge 1$ GHz,	
	200 Hz for 9 kHz to 150 kHz 9 kHz for 150 kHz to 30 MHz	
	120 kHz for 30 MHz to 1GHz	
	$VBW \ge RBW$	
	Sweep = auto	
	Detector function = peak for $f \ge 1$ GHz, QP fo	r f < 1 GHz
	Trace = max hold	
	For AV value:	
	RBW = 1 MHz for $f \ge 1$ GHz, 100 kHz for $f < 1$ VBW=10 Hz	UTZ
	Sweep = auto	
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	-	



TEST REPORT

	Trace = max hold
Field Strength Calculation:	The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below: FS = RA + AF + CF - AG + PD + AV FS = RA + Correct Factor + AV
Where:	FS = Field Strength in dBμV/m RA = Receiver Amplitude (including preamplifier) in dBμV AF = Antenna Factor in dB CF = Cable Attenuation Factor in dB AG = Amplifier Gain in dB
	PD = Pulse Desensitization in dB
	AV = Average Factor in –dB
	Correct Factor = AF + CF – AG + PD
	In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows: FS = RA + AF + CF - AG + PD + AV
	Assume a receiver reading of 62.0 dBµV is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB, and the resultant average factor was -10 dB. The net field strength for comparison to the
	appropriate emission limit is 32 dB μ V/m. RA = 62.0 dB μ V AF = 7.4 dB
	CF = 1.6 dB AG = 29.0 dB PD = 0 dB
	AV = -10 dB Correct Factor = 7.4 + 1.6 – 29.0 + 0 = -20 dB FS = 62 + (-20) + (-10) = 32 dBμV/m

Section 15.205 Restricted bands of operation.

(a) Except as shown in paragraph (d) of this section. Only spurious emissions are permitted in any of the frequency bands listed below:

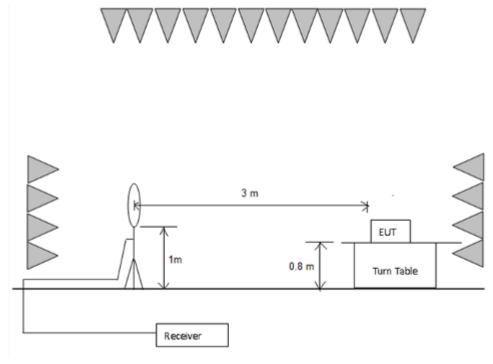


TEST REPORT

MHz	MHz	MHz	GHz
$\begin{array}{c} 0.090 - 0.110 \\ 10.495 - 0.505 \\ 2.1735 - 2.1905 \\ 4.125 - 4.128 \\ 4.17725 - 4.17775 \\ 4.20725 - 4.20775 \\ 6.215 - 6.218 \\ 6.26775 - 6.26825 \\ 6.31175 - 6.31225 \\ 8.291 - 8.294 \\ 8.362 - 8.366 \\ 8.37625 - 8.38675 \\ 8.41425 - 8.41475 \\ 12.29 - 12.293 \\ 12.51975 - 12.52025 \\ 12.57675 - 12.57725 \\ 13.36 - 13.41 \\ \end{array}$	$\begin{array}{c} 16.42 - 16.423 \\ 16.69475 - 16.69525 \\ 16.80425 - 16.80475 \\ 25.5 - 25.67 \\ 37.5 - 38.25 \\ 73 - 74.6 \\ 74.8 - 75.2 \\ 108 - 121.94 \\ 123 - 138 \\ 149.9 - 150.05 \\ 156.52475 - \\ 156.52525 \\ 156.7 - 156.9 \\ 162.0125 - 167.17 \\ 167.72 - 173.2 \\ 240 - 285 \\ 322 - 335.4 \end{array}$	399.9 - 410 608 - 614 960 - 1240 1300 - 1427 1435 - 1626.5 1645.5 - 1646.5 1660 - 1710 1718.8 - 1722.2 2200 - 2300 2310 - 2390 2483.5 - 2500 2655 - 2900 3260 - 3267 3332 - 3339 3345.8 - 3358 3600 - 4400	$\begin{array}{c} 4.5 - 5.15 \\ 5.35 - 5.46 \\ 7.25 - 7.75 \\ 8.025 - 8.5 \\ 9.0 - 9.2 \\ 9.3 - 9.5 \\ 10.6 - 12.7 \\ 13.25 - 13.4 \\ 14.47 - 14.5 \\ 15.35 - 16.2 \\ 17.7 - 21.4 \\ 22.01 - 23.12 \\ 23.6 - 24.0 \\ 31.2 - 31.8 \\ 36.43 - 36.5 \end{array}$

Test Configuration:

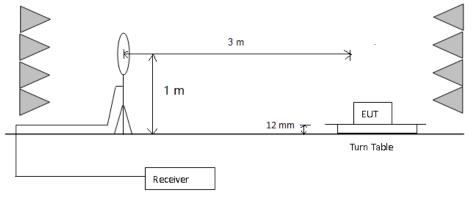
1) 9 kHz to 30 MHz emissions:





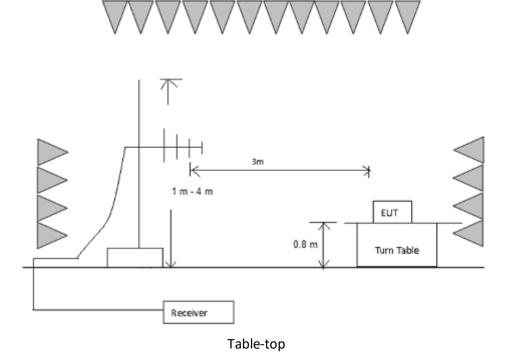


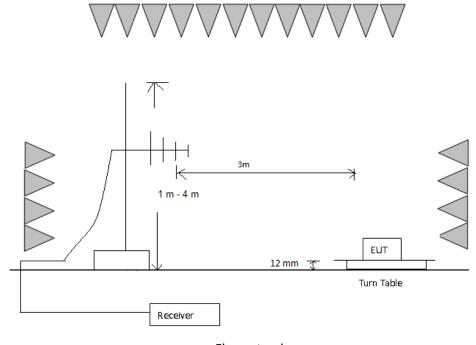






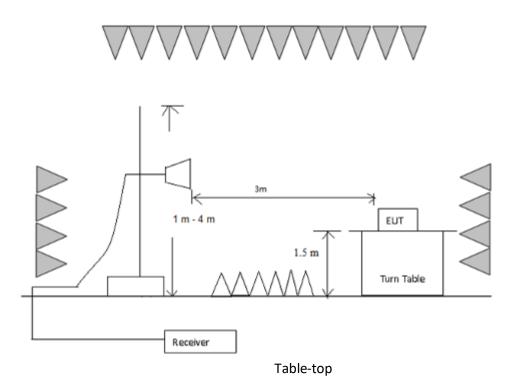
2) 30 MHz to 1 GHz emissions:



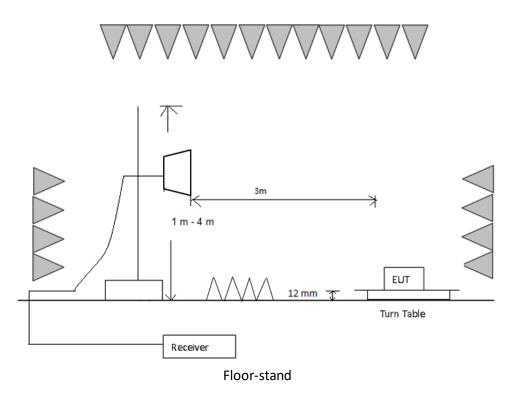


Floor-stand

3) 1 GHz to 40 GHz emissions:







Test Procedure:

Test site with RF absorbing material covering the ground plane that met the site validation criterion called out in CISPR 16-1-4:2010 was used to perform radiated emission test above 1 GHz.

The receiver was scanned from 9 kHz to 25 GHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported.

Used Test Equipment List:

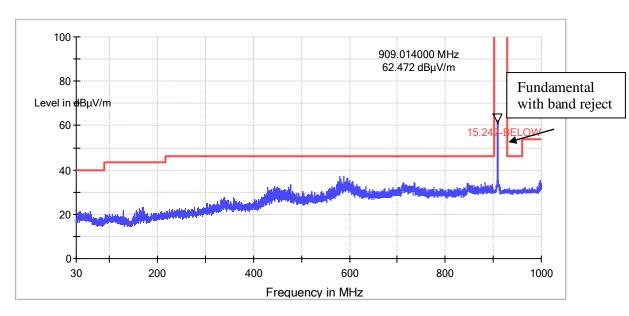
3m Semi-Anechoic Chamber, EMI Test Receiver (9 kHz~7 GHz), Signal and Spectrum Analyzer (10 Hz~40 GHz), Loop antenna (9 kHz-30 MHz). TRILOG Super Broadband test Antenna(30 MHz-3 GHz) (RX), Bouble-Ridged Waveguide Horn Antenna (800 MHz-18 GHz)(RX) and High Frequency Antenna & preamplifier(18 GHz~26.5 GHz) (RX). Refer to Clause 5 Test Equipment List for details.

9 kHz~30 MHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement The measurements with active loop antenna were greater than 30dB below the limit, so the test data were not recorded in the test report.



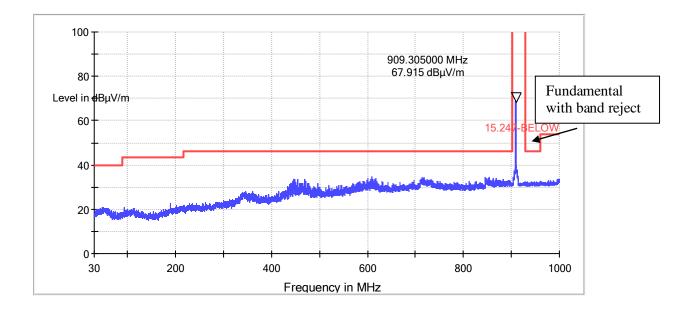
TEST REPORT

Test at Channel 1 (909.125MHz) in transmitting status 30 MHz~1 GHz Spurious Emissions .Quasi-Peak Measurement Vertical:



All emission levels are more than 6 dB below the limit.

Horizontal:



All emission levels are more than 6 dB below the limit.



1~25 GHz Radiated Emissions.

PK Measurement:

Frequency (MHz)	PK Reading Level (dBμV)	Correction factors (dB/m)	PK Emission Level (dBμV/m)	PK Limit (dBμV/m)	Antenna polarization
1818.3	60.9	-10.4	50.5	74	V
6364.1	61.4	1.2	62.6	74	V
7273.0	51.5	2.4	53.9	74	V
1818.3	64.8	-10.4	54.4	74	Н
6363.5	59.6	1.2	60.8	74	Н

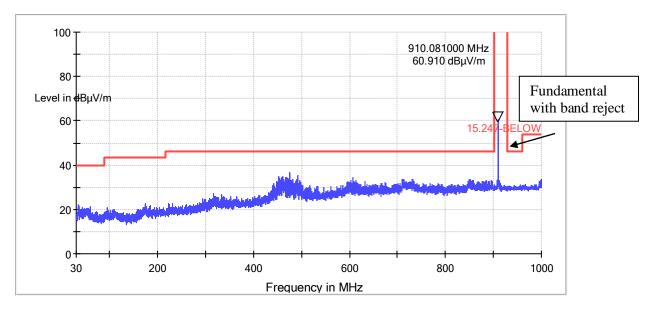
AV Measurement:

Frequency (MHz)	AV Correction Reading factors Level (dB/m) (dBμV)		AV Emission Level (dBμV/m)	AV Limit (dBμV/m)	Antenna polarization
1818.3	-	-10.4	-	54	V
6364.1	44.2	1.2	45.4	54	V
7273.0	40.9	2.4	43.3	54	V
1818.3	61.5	-10.4	51.1	54	Н
6363.5	46.6	1.2	47.8	54	Н

Remark: When Peak emission level was below AV limit, the AV emission level did not be recorded.

Test at Channel 2 (910.125MHz) in transmitting status 30 MHz~1 GHz Radiated Emissions .Quasi-Peak Measurement

Vertical:

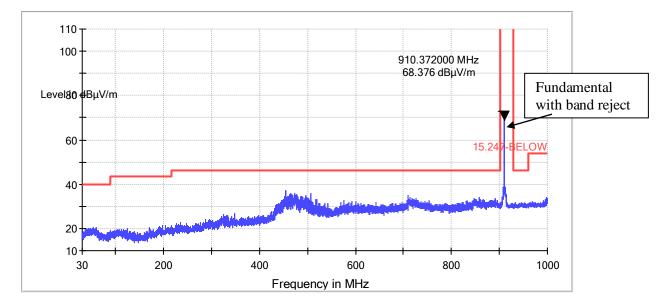


All emission levels are more than 6 dB below the limit.



TEST REPORT

Horizontal:



All emission levels are more than 6 dB below the limit.

1~25 GHz Radiated Emissions.

PK Measurement:

Frequency (MHz)	PK Reading Level (dBμV)	Correction factors (dB/m)	PK Emission Level (dBµV/m)	PK Limit (dBμV/m)	Antenna polarization
1820.5	58.1	-10.4	47.7	74	V
2730.0	69.2	-6.9	62.3	74	V
1820.0	65.1	-10.4	54.7	74	Н
6370.9	59.9	1.3	61.2	74	Н

AV Measurement:

Frequency (MHz)	AVReading Level (dBμV)	Correction factors (dB/m)	AV Emission Level (dBμV/m)	AV Limit (dBμV/m)	Antenna polarization
1820.5	-	-10.4	-	54	V
2730.0	54.9	-6.9	48.0	54	V
1820.0	58.5	-10.4	48.1	54	Н
6370.9	44.1	1.3	45.4	54	Н

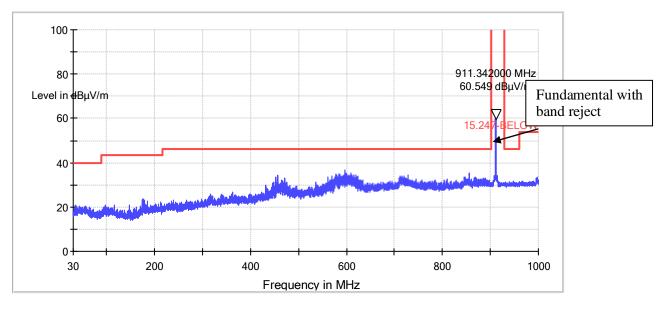
Remark: When Peak emission level was below AV limit, the AV emission level did not be recorded



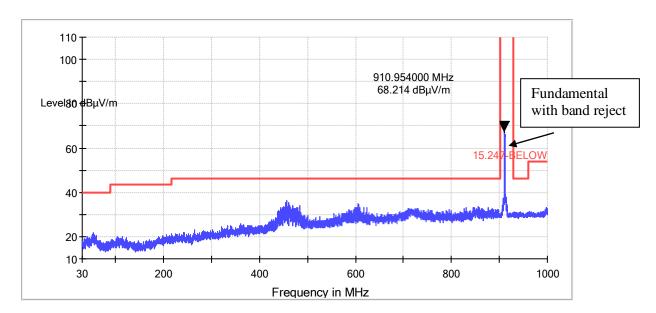
TEST REPORT

Test at Channel 3 (911.125MHz) in transmitting status 30 MHz~1 GHz Radiated Emissions .Quasi-Peak Measurement

Vertical:



All emission levels are more than 6 dB below the limit.



Horizontal:

All emission levels are more than 6 dB below the limit.



1~25 GHz Radiated Emissions. Peak & Average Measurement

PK Measurement:

Frequency (MHz)	PK Reading Level (dBμV)	Correction factors (dB/m)	PK Emission Level (dBμV/m)	PK Limit (dBμV/m)	Antenna polarization
2733.4	59.2	-6.9	52.3	74	V
6377.1	57.2	1.3	58.5	74	V
1821.7	62.5	-10.4	52.1	74	Н
6378.8	57.3	1.3	58.6	74	Н

AV Measurement:

Frequency (MHz)	AV Reading Level (dBμV)	Correction factors (dB/m)	AV Emission Level (dBμV/m)	AV Limit (dBμV/m)	Antenna polarization
2733.4	-	-6.9	-	54	V
6377.1	45.2	1.3	46.5	54	V
1821.7	-	-10.4	-	54	Н
6378.8	47.6 1.3		48.9	54	Н

Remark: When Peak emission level was below AV limit, the AV emission level did not be recorded.

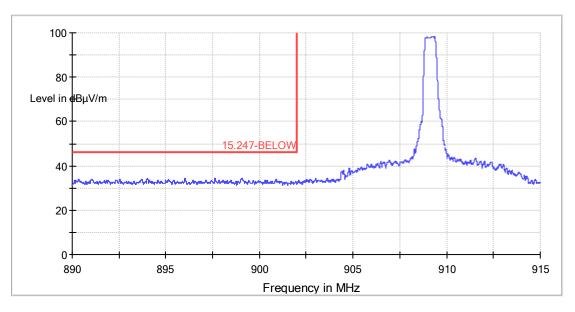


TEST REPORT

Band Edges:

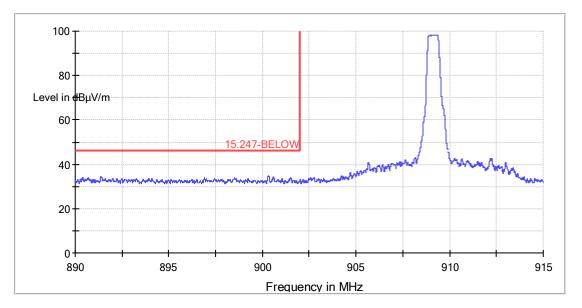
Test at Channel 1 (909.125MHz) in transmitting status

Vertical:



All emission levels are more than 6 dB below the limit.

Remark: When Peak emission level was below AV limit, the QP emission level did not be record.



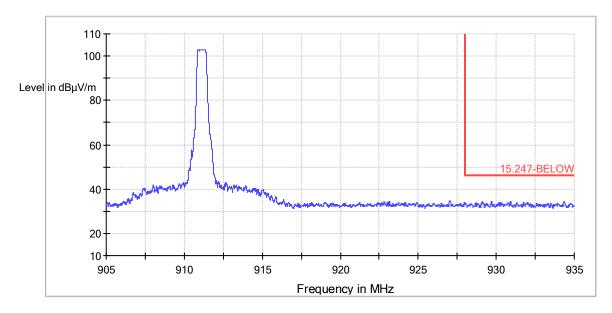
Horizontal:

All emission levels are more than 6 dB below the limit.

Remark: When Peak emission level was below AV limit, the QP emission level did not be record.



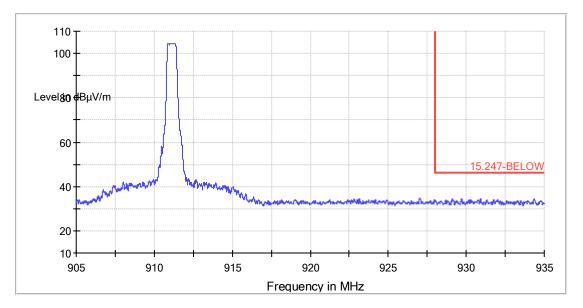
TEST REPORT



Test at Channel 3 (911.125MHz) in transmitting status **Vertical:**

All emission levels are more than 6 dB below the limit.

Remark: When Peak emission level was below AV limit, the QP emission level did not be record.



Horizontal:

All emission levels are more than 6 dB below the limit.

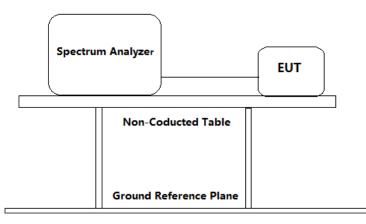
Remark: When Peak emission level was below AV limit, the QP emission level did not be record.



TEST REPORT

4.9 Band Edges Requirement

Test Requirement:	FCC Part 15 C section 15.247
	(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating. The radio frequency power that is produced by the intentional radiator shall be at least 20 dB 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. Provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30dB instead of 20dB.
Frequency Band:	902 MHz to 928 MHz
Test Method:	ANSI C63.10: Clause 11.11 and 11.13
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Test Configuration:	For Band Edges Emission in Radiated mode, Please refer to clause 4.7



Test Procedure:

For Band Edges Emission in Radiated mode, Please refer to clause 4.7

Remove the antenna from the EUT and then connect a low RF cable(cable loss =1dB, with a 10dB attenuator) from the antenna port to the spectrum analyzer.
 a) Set instrument center frequency to the frequency of the emission to be measured (must be within 2 MHz of the authorized band edge).
 b) Set the center frequency and span to encompass frequency range to be measured.



- c) RBW = 100 kHz.
 d) VBW ≥ [3 × RBW].
 e) Detector = Rms.
 f) Sweep time = auto.
- g) Trace mode = max hold.

h) Allow sweep to continue until the trace stabilizes (required measurement time may increase for low-duty-cycle applications).

i) For radiated Band-edge emissions within a restricted band and within 2 MHz of an authorized band edge, integration method is considered.

- 2. Repeat until all the test status is investigated.
- 3. Report the worst case.

Used Test Equipment List:

3m Semi-Anechoic Chamber, EMI Test Receiver (9 kHz~7 GHz), Signal and Spectrum Analyzer (10 Hz~40 GHz), Loop antenna (9 kHz-30 MHz). TRILOG Super Broadband test Antenna(30 MHz-3 GHz) (RX), Bouble-Ridged Waveguide Horn Antenna (800 MHz-18 GHz)(RX) and High Frequency Antenna & preamplifier(18 GHz~26.5 GHz) (RX). Refer to Clause 5 Test Equipment List for details.

Test result with plots as follows:

For conduct mode:

The band edges was measured and recorded Result:

The Lower Edges attenuated more than 20dB.

The Upper Edges attenuated more than 20dB.

Result plots as follows:

Channel1: 909.125 MHz

Spectrum	١	Ύ.	Sp	ect	rum	2		X	s	pectr	um 3	X	s	pectrum	4		×		
Ref Leve	21	.00 d	Bm	1	Offse	et 🗄	11.0	00 dB		RBW	100 k	Hz					-		
Att		20	dB	. :	SWT		75	.9 µs		VBW	300 k	Hz Moo	le	Auto FFT					
⊖1Pk Max																			
													M:	2[1]		M1			57.43 dBm 1317 MHz
10 dBm	·D1	12.75	00	dBm									M	1[1]	1				12.75 dBm .9030 MHz
0 dBm													_			F			
-10 dBm		-D2	-7.:	250	dBm-														
-20 dBm—																	$\left \right $		
-30 dBm										-					/		┦		
-40 dBm										-			مر	month	av		L	Murallan V	
-50 dBm											M2	mbr							huy h
∿60.d&m h≁.	لىسى مەربى	مريد الولب ا	فرمها	m	₩₩₩		ne.	ماكسره له	de Ma	Mar	in	<u></u>	_						nah
-70 dBm																			
CF 902.0 N	1Hz						-				691	pts			-			Span	30.0 MHz



TEST REPORT

Channel 3:911.125 MHz

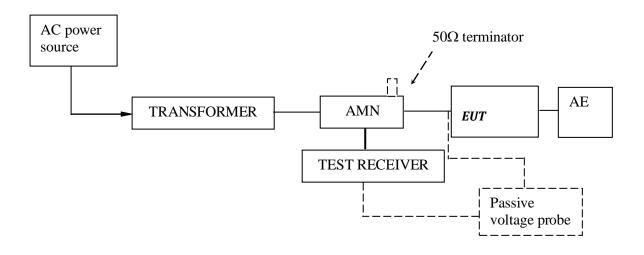
Spectrun	ı	Sp	ectrum 2	2 X S	pectrum 3	× × 5	Spectrum 4	4 🗴			
Ref Leve	21.00) dBm		11.00 dB 👄				_			
Att		20 dB	SWT	113.8 µs 👄	VBW 300 k	Hz Mode	Auto FFT				
●1Pk Max											
	M	н				М	2[1]			57.72 dBm	
	D1 12		l dBm							8.5065 MHz	
10 dBm						N	1[1]		12.54 dBm 910.9230 MHz		
							1		910	.9200 MI12	
0 dBm				_							
-10 dBm	D	2 -7.4	460 dBm								
10 00111											
-20 dBm—											
-30 dBm											
	art	પ	mu								
40 dBm	M.		When I	_							
م م			~								
-50 d <mark>8</mark> m			4								
00 00			1			M2					
-60 dBm				muchan	a seconda da	Δ.					
-во авт				- 0° - 000	Annon Marked Marked	the standard of the second sec	for the part	Valler - July	Martin and the second	www.ma	
-70 dBm											
CF 928.0 N	l 1Hz				691	pts			Span	50.0 MHz	
					500						



TEST REPORT

4.10 Conducted Emission Test

Test Configuration:



Test Setup and Procedure:

Test was performed according to ANSI C63.10 Clause 6.2. The EUT was set to achieve the maximum emission level. The mains terminal disturbance voltage was measured with the EUT in a shielded room. The EUT was connected to AC power source through an Artificial Mains Network which provides a 50Ω linear impedance Artificial hand is used if appropriate (for handheld apparatus). The load/control terminal disturbance voltage was measured with passive voltage probe if appropriate.

The table-top EUT was placed on a 0.8m high non-metallic table above earthed ground plane (Ground Reference Plane). And for floor standing EUT, was placed on a 0.1m high non-metallic supported on GRP. The EUT keeps a distance of at least 0.8m from any other of the metallic surface. The Artificial Mains Network is situated at a distance of 0.8m from the EUT.

During the test, mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m

The bandwidth of test receiver was set at 9 kHz. The frequency range from 150 kHz to 30MHz was checked.



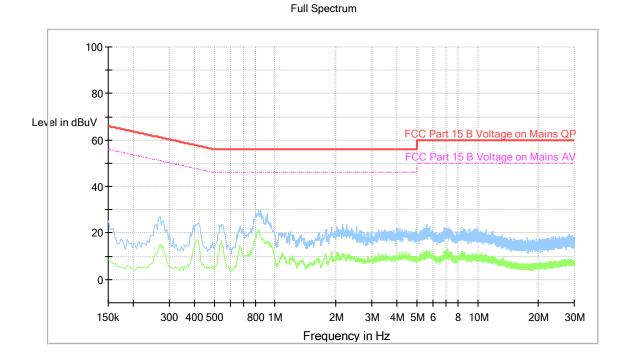
TEST REPORT

Test Data and Curve

At main terminal: Pass

Tested Wire: Live

Operation Mode: transmitting mode



All emission levels are more than 10 dB below the limit.

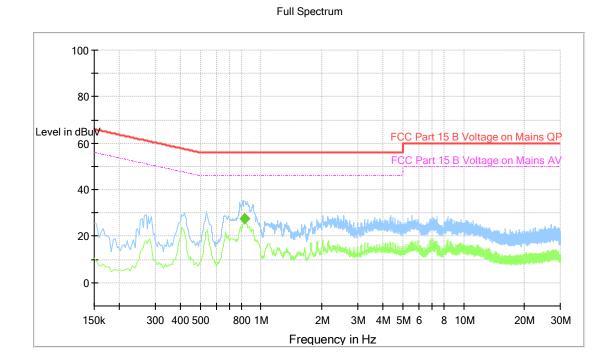
Version: 10 June 2019



TEST REPORT

Tested Wire: Neutral

Operation Mode: transmitting mode



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.830000		27.53	46.00	18.47	1000.0	9.000	Ν	ON	9.7

Remark:

- 1. Corr. (dB) = LISN Factor (dB) + Cable Loss (dB)
- 2. Level (dB μ V) = Corr. (dB) + Read Level (dB μ V)
- 3. Delta Limit (dB) = Level (dBµV)-Limit (dBµV)



TEST REPORT

5.0 Test Equipment List

Radiated Emission/Radio

Equipment No.	Equipment	Model	Manufacturer	Cal. Due date (YYYY-MM-DD)	Calibration Interval
EM030-04	3m Semi-Anechoic Chamber	9×6×6 m ³	ETS · LINDGREN	2022-04-06	1Y
EM031-02	EMI Test Receiver (9 kHz~7 GHz)	R&S ESR7	R&S	2022-09-02	1Y
EM031-03	Signal and Spectrum Analyzer (10 Hz~40 GHz)	R&S FSV40	R&S	2021-11-10	1Y
EM011-04	Loop antenna (9 kHz-30 MHz)	HFH2-Z2	R&S	2022-06-25	1Y
EM061-03	TRILOG Super Broadband test Antenna (30 MHz-1.5 GHz) (TX)	VULB 9161	SCHWARZBECK	2022-06-18	1Y
EM033-01	TRILOG Super Broadband test Antenna(30 MHz-3 GHz) (RX)	VULB 9163	SCHWARZBECK	2021-09-18	1Y
EM033-02	Bouble-Ridged Waveguide Horn Antenna (800 MHz-18 GHz)(RX)	R&S HF907	R&S	2022-06-18	1Y
EM033-03	High Frequency Antenna & preamplifier(18 GHz~26.5 GHz) (RX)	R&S SCU-26	R&S	2022-04-22	1Y
EM033-04	High Frequency Antenna & preamplifier (26 GHz-40 GHz)	R&S SCU-40	R&S	2022-04-22	1Y
EM031-02-01	Coaxial cable(9 kHz-1 GHz)	N/A	R&S	2022-04-05	1Y
EM033-02-02	Coaxial cable(1 GHz-18 GHz)	N/A	R&S	2022-04-05	1Y
EM033-04-02	Coaxial cable(18 GHz~40 GHz)	N/A	R&S	2022-04-23	1Y
EM031-01	Signal Generator (9 kHz~6 GHz)	SMB100A	R&S	2022-07-19	1Y
EM040-01	Band Reject/Notch Filter	WRHFV	Wainwright	N/A	1Y
EM040-02	Band Reject/Notch Filter	WRCGV	Wainwright	N/A	1Y
EM040-03	Band Reject/Notch Filter	WRCGV	Wainwright	N/A	1Y
EM022-03	2.45 GHz Filter	BRM50702	Micro-Tronics	2022-05-11	1Y
SA016-29	Climatic Test Chamber	MHU-80L	JIANQIAO	2022-02-04	1Y
SA012-74	Digital Multimeter	FLUKE175	FLUKE	2022-10-09	1Y
EM010-01	Regulated DC Power supply	PAB-3003A	GUANHUA	N/A	1Y
SA040-22	Regulated DC Power supply	IT6721	ITECH	2022-09-01	1Y
EM084-06	Audio Analyzer	8903B	HP	2022-04-11	1Y
EM046-05	Power meter	NPR6A	R&S	2022-03-11	1Y
EM046-06	Power meter	NPR6A	R&S	2022-03-11	1Y
EM045-01-01	EMC32 software (RE/RS)	V10.01.00	R&S	N/A	N/A
EM045-01-09	EMC32 software (328/893)	V9.26.01	R&S	N/A	N/A
Conducted emis	sion at the mains terminals				
E	Eminment	Madal	Manufacture	Cal. Due date	Calibration

Equipment No.	Equipment	Model	Manufacturer	Cal. Due date	Calibration
-1-1-1	-1-1-1			(YYYY-MM-DD)	Interval
EM080-05	EMI receiver	ESCI	R&S	2022-07-15	1Y
EM006-05	LISN	ENV216	R&S	2022-06-06	1Y
EM006-06	LISN	ENV216	R&S	2022-09-03	1Y
EM006-06-01	Coaxial cable	/	R&S	2022-04-05	1Y
EM004-04	EMC shield Room	8m×3m×3m	Zhongyu	2022-01-21	1Y