




Prüfbericht-Nr.: <i>Test Report No.:</i>	50161317 001	Auftrags-Nr.: <i>Order No.:</i>	144189242	Seite 1 von 21 <i>Page 1 of 21</i>	
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	28.06.2018		
Auftraggeber: <i>Client:</i>	INNOVATIVE TECHNOLOGY ELECTRONICS LLC				
Prüfgegenstand: <i>Test item:</i>	Retro Bluetooth Radio				
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	VRS-2800				
Auftrags-Inhalt: <i>Order content:</i>	FCC Certification and IC Certification				
Prüfgrundlage: <i>Test specification:</i>	FCC Part 15 Subpart C RSS-247 Issue 2 ANSI C63.10-2013				
Wareneingangsdatum: <i>Date of receipt:</i>	15.06.2018				
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000759716-001				
Prüfzeitraum: <i>Testing period:</i>	19.07.2018 - 07.08.2018				
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland Hong Kong Ltd.				
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland Hong Kong Ltd.				
Prüfergebnis*: <i>Test result*:</i>	Pass				
geprüft von / tested by:		kontrolliert von / reviewed by:			
 Benny Lau Senior Project Manager		 Sharon Li Senior Unit Manager			
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>
03.09.2018	Benny Lau Senior Project Manager		03.09.2018	Sharon Li Senior Unit Manager	
Sonstiges / Other:	FCC ID: 2AFHW-VRS2800 IC: 9577A-VRS2800				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>				
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend N/A = nicht anwendbar	4 = ausreichend N/A = nicht anwendbar	5 = mangelhaft N/T = nicht getestet
Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory N/A = not applicable	4 = sufficient N/A = not applicable	5 = poor N/T = not tested
<p>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</p> <p><i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p>					

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Product information

Manufacturers declarations

	Transmitter
Operating frequency range	2402 - 2480 MHz
Type of modulation	GFSK; Pi/4 DQPSK; 8 DPSK
Number of channels	79
Channel separation	1 MHz
Type of antenna	PCB Antenna
Antenna gain (dBi)	0 dBi
Power level	fix
Type of equipment	stand alone radio device
Connection to public utility power line	Yes
Nominal voltage	120 VAC
Independent Operation Modes	Transmitting

Product function and intended use

The equipment under test (EUT) is a AM/ FM radio with Bluetooth connectivity . It is powered by 120 VAC.

FCC ID: 2AFHW-VRS2800/ IC: 9577A-VRS2800

Models	Product description
VRS-2800	Retro Bluetooth Radio

Submitted documents

Circuit Diagram
 Block Diagram
 Technical Description
 User manual
 Label

Independent Operation Modes

The basic operation modes are:

- Transmitting mode.
- Normal operation mode

For further information refer to User Manual

Related Submittal(s) Grants

This is a single application for certification of the Bluetooth transmitter.
 The FM radio function is authorized under SDOC procedure (refer to test report 50161318 001)

Remark

The test results in this test report are only relevant to the tested sample and does not involve any assessment in the production.

Test Set-up and Operation Mode

Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Test Operation and Test Software

Test operation should refer to test methodology.

- During test, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power was selected according to the instruction given by the manufacturer. The setting of the RF output power expected by the customer shall be fixed on the firmware of the final end product.

Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

- NIL

Countermeasures to achieve EMC Compliance

- NIL

Test Methodology

Radiated Emission

The radiated emission measurements of the transmitter part were performed according to the procedures in ANSI C63.10-2013.

For measurement below 1GHz - the equipment under test (EUT) was placed at the middle of the 80 cm height turntable. For measurement above 1GHz - the EUT was placed at the middle of the 1.5 m height turntable and RF absorbing material was placed on ground plane between turntable and measuring antenna. During the testing, the EUT was operated standalone and arranged for maximum emissions. The EUT was tested in three orthogonal planes.

The investigation is performed with the EUT rotated 360°, the antenna height scanned between 1m and 4m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations. Repeat the measurement steps until the maximum emissions were obtained.

All radiated tests were performed at an antenna to EUT with 3 meters distance, unless stated otherwise in particular parts of this test report.

Field Strength Calculation

The field strength at 3 m was established by adding the meter reading of the spectrum analyzer to the factors associated with antenna correction factor, cable loss, preamplifiers and filter attenuation.

The equation is expressed as follow:

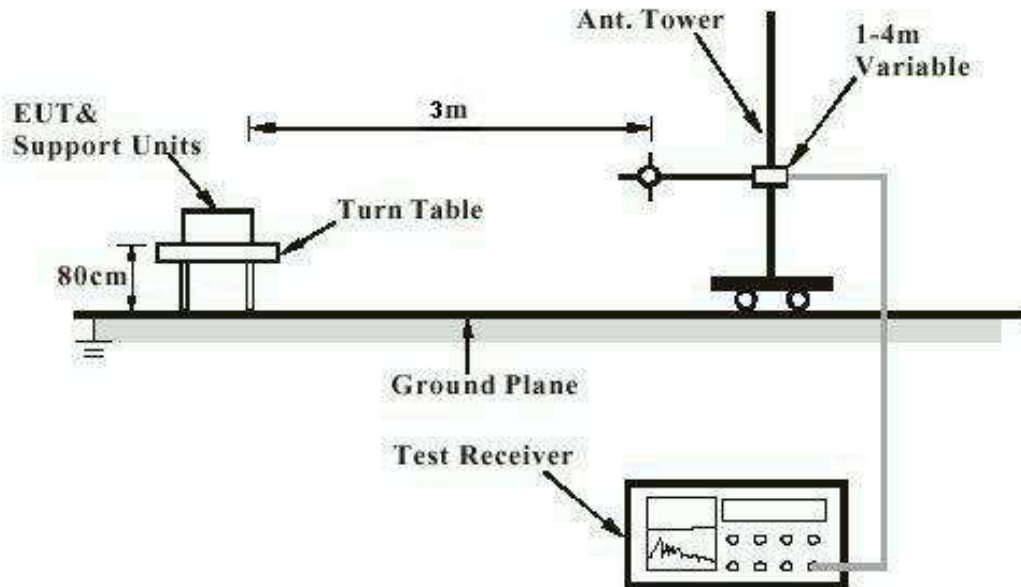
$$FS = R + AF + CF + FA - PA$$

Where FS = Field Strength in dBuV/m at 3 meters.
R = Reading of Spectrum Analyzer in dBuV.
AF = Antenna Factor in dB.
CF = Cable Attenuation Factor in dB.
FA = Filter Attenuation Factor in dB.
PA = Preamplifier Factor in dB.

FA and PA are only be used for the measuring frequency above 1 GHz.

Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test



Note: Measurements above 1 GHz are done with a table height of 1.5m. In addition, there is RF absorbing material on the floor of the test site for above 1GHz measurement.

Diagram of Measurement Equipment Configuration for Mains Conduction Measurement (if applicable)

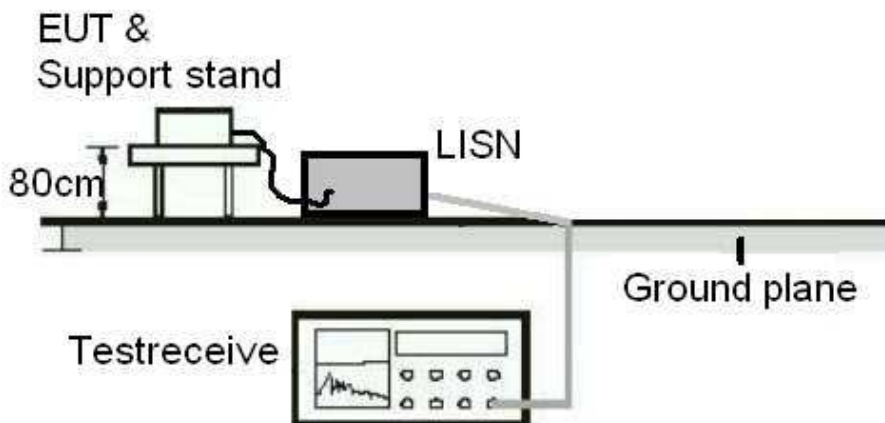
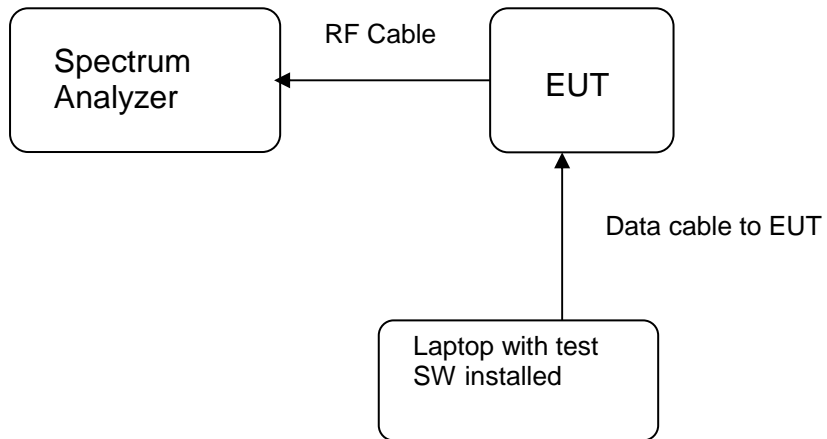


Diagram of Equipment Configuration for Antenna-port Conducted Measurement (if applicable)



Test Facility

Test Laboratory Information

TÜV Rheinland Hong Kong Ltd.

Address: 3-4, 11/F., Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, N.T., Hong Kong

Tel.: +852 2192 1000

Fax: +852 2192 1001

Email service-gc@tuv.com

Web: www.tuv.com

The test facility is recognized or accredited by the following organizations:

FCC

Type	: Accredited Test Firm
Designation Number	: HK0013
Test Firm Registration Number	: 371735
Scope	: Intentional Radiators

Industry Canada

The 10m Semi-anechoic chamber used by TÜV Rheinland Hong Kong Ltd at Hong Kong Productivity Council has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

Test Site Registration Number : 4780A-1

List of Test and Measurement Instruments

Radiated Emission

Equipment	Manufacturer	Type	Cal. Date	Due Date
Semi-anechoic Chamber	Frankonia	Nil	23-Apr-18	23-Apr-19
Test Receiver	R & S	ESU40	12-Jun-18	12-Jun-19
Active Loop Antenna	EMCO	6502	30-Oct-17	30-Oct-18
Bi-conical Antenna	R & S	HK116	21-Mar-18	21-Mar-20
Log Periodic Antenna	R & S	HL223	22-Mar-18	22-Mar-20
Horn Antenna	EMCO	3115	28-Mar-18	28-Mar-20
Coaxial cable	Huber+Suhner	CNM-NMCMILX800-473	11-Dec-17	11-Dec-19
High Frequency Cable	Huber+Suhner	CNM-NMCMILX800-473	11-Dec-17	11-Dec-19
Microwave amplifier 0.5-26.5GHz, 25dB gain	HP	83017A	18-Jul-17	18-Jul-19
Preamplifier 18GHz to 40GHz with cable	A.H. Systems, Inc.	PAM-1840VH	29-Jan-18	29-Jan-19
High Pass Filter (cutoff freq. =1000MHz)	Trilithic	23042	30-Oct-17	30-Oct-19

AC Mains Conducted Emission

Equipment	Manufacturer	Type	Cal. Date	Due Date
Test Receiver	R & S	ESCS30	27 Sep 17	27 Sep 18
LISN	R & S	ESH3-Z5	03 Jan 18	03 Jan 19
Coaxial Cable	Teseq	RG223	01 Nov 17	01 Nov 18

Radio Test

Equipment	Manufacturer	Type	Cal. Date	Due Date
Spectrum Analyzer	R & S	FSP30	03-May-18	02-May-19

Measurement Uncertainty

The estimated combined standard uncertainty for power-line conducted emissions measurements is ± 2.42 dB.

The estimated combined standard uncertainty for radiated emissions measurements is ± 4.81 dB (9kHz to 30MHz) and ± 4.62 dB (30MHz to 200MHz) and ± 5.67 dB (200MHz to 1000MHz) and is ± 5.07 dB (1GHz to 8.2GHz) and ± 4.58 dB (8.2GHz to 12.4GHz) and ± 4.78 dB (12.4GHz to 18GHz)

The estimated combined standard uncertainty for antenna conducted emission is ± 2.1 dB

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of $k=2$, which for the level of confidence is approximately 95%.

Results FCC Part 15 – Subpart C/ RSS-247 Issue 2

FCC 15.203 – Antenna Requirement 1		Pass
FCC Requirement:	No antenna other than that furnished by the responsible party shall be used with the device	
Results:	a) Antenna type:	Fixed Integral PCB antenna
	b) Manufacturer and model no:	F-6888
	c) Peak Gain:	0 dBi
Verdict:	Pass	

FCC 15.204 – Antenna Requirement 2		Pass
FCC Requirement:	An intentional radiator may be operated only with the antenna with which it is authorized. If an antenna is marketed with the intentional radiator, it shall be of a type which is authorized with the intentional radiator.	
Results:	Only one integral antenna can be used.	
Verdict:	N/A	

RSS-Gen 6.3 – External Control		Pass
IC Requirement:	The device shall not have any external controls accessible to the user that enable it to be adjusted, selected or programmed to operate in violation of the limits prescribed in the applicable RSS.	
Results:	The device does not have any transmitter external controls accessible to the user that can be adjusted and operated in violation of the limits of this standard.	
Verdict:	Pass	

RSS-Gen 8.3 – Antenna Requirement		Pass
IC Requirement:	When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device’s antenna shall be stated, based on measurement or on data from the antenna manufacturer.	
Results:	a) Antenna type:	Fixed Integral PCB antenna
	b) Manufacturer	Shenzhen Shi Xin Zhong Xin
	c) model no	F-6888
	d) Gain with reference to an isotropic radiator:	0 dBi
Verdict:	Pass	

FCC 15.207/ RSS-Gen 8.8 – Conducted Emission on AC Mains							Pass
Test Specification : ANSI C63.10-2013 Test date : 23.07.2018 Mode of operation : TX mode Supply voltage : 120Vac 60Hz Temperature : 23°C Humidity : 50%							
Requirement: 15.207(a)/ RSS-Gen 8.8							
Results: Pass							
Live measurement							
Frequency range (MHz)	Frequency (MHz)	Quasi-peak dBµV	Average dBµV	Limit QP (dBµV)	Limit AV (dBµV)	Verdict	
0,15 – 0,5	No peak found	---	---	66 - 56	56 - 46	Pass	
> 0,5 - 5	No peak found	---	---	56	46	Pass	
> 5 - 30	No peak found	---	---	60	50	Pass	
Neutral measurement							
Frequency range (MHz)	Frequency (MHz)	Quasi-peak dBµV	Average dBµV	Limit QP (dBµV)	Limit AV (dBµV)	Verdict	
0,15 – 0,5	No peak found	---	---	66 - 56	56 - 46	Pass	
> 0,5 - 5	No peak found	---	---	56	46	Pass	
> 5 - 30	No peak found	---	---	60	50	Pass	
Results: Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and data rate. The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150kHz to 30MHz does not exceed the limits. For test Results plots refer to Appendix 1							

FCC 15.247 (b)(1)/ RSS-247 5.4 – Peak Output Power				Pass
Test Specification : ANSI C63.10 – 2013 Test date : 02.08.2018 Mode of operation : Tx mode Port of testing : Temporary antenna port Supply voltage : 120VAC Temperature : 23°C Humidity : 50%				
FCC/ IC Requirement : For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 Watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 Watts.				
Results: For test protocols please refer to Appendix 1.				
Frequency (MHz)	Cable loss (dB)	Maximum peak output power (dBm)	Limit (W/dBm)	Verdict
2402	0.5	-0.35	0.125 / 21.0	Pass
2441	0.5	-1.11	0.125 / 21.0	Pass
2480	0.5	-1.99	0.125 / 21.0	Pass

FCC 15.247 (a)/ RSS-247 5.1 – 20 dB Bandwidth				Pass
FCC/ IC Requirement : N/A				
Test Specification : ANSI C63.10 – 2013 Test date : 02.08.2018 Mode of operation : Tx mode Port of testing : Temporary antenna port Supply voltage : 120VAC Temperature : 23°C Humidity : 50%				
Results: Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and packet types. For test protocols refer to Appendix 1.				
Frequency (MHz)	20 dB left (MHz)	20 dB right (MHz)	20dB bandwidth (MHz)	
2402	2401.346	2402.678	1.332	
2441	2440.346	2441.678	1.332	
2480	2479.346	2480.678	1.332	

RSS-Gen 6.6 – Occupied Bandwidth			Pass
FCC/ IC Requirement : N/A			
Test Specification : RSS-Gen Test date : 07.08.2018 Mode of operation : Tx mode Port of testing : Temporary antenna port Supply voltage : 120VAC Temperature : 23°C Humidity : 50%			
Results: Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and packet types. For test protocols refer to Appendix 1.			
Frequency (MHz)	Left (MHz)	Right (MHz)	99% bandwidth (MHz)
2402	2401.250	2402.660	1.41
2441	2440.250	2441.660	1.41
2480	2479.260	2480.660	1.40

FCC 15.247(a)(1)/ RSS-247 5.1 – Carrier Frequency Separation			Pass
FCC/ IC Requirement:			
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25kHz or the 2/3*20dB bandwidth of the hopping channel, whichever is greater.			
Test Specification : ANSI C63.10 – 2013 Test date : 02.08.2018 Mode of operation : Tx mode (hopping on) Port of testing : Temporary antenna port Supply voltage : 120VAC Temperature : 23°C Humidity : 50%			
Results: Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and packet types. For test Results plots refer to Appendix 1.			
Channel Separation (kHz)	Limit (kHz)	Verdict	
1000	888	Pass	

FCC 15.247 (a)(1)(iii)/ RSS-247 5.1 – Number of hopping channels		Pass
FCC/ IC Requirement:		
Frequency hopping systems operating in the 2400MHz-2483.5MHz bands shall use at least 15 hopping frequencies.		
Test Specification : ANSI C63.10 – 2013 Test date : 02.08.2018 Mode of operation : Tx mode (hopping on) Port of testing : Temporary antenna port Supply voltage : 120VAC Temperature : 23°C Humidity : 50%		
Results: For test Results plots refer to Appendix 1.		
No. of hopping channels	Limit	Verdict
79	15	Pass

FCC 15.247 (a)(1)(iii)/ RSS-247 5.1 – Time of Occupancy (Dwell Time)		Pass
FCC/ IC Requirement:		
Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.		
Test Specification : ANSI C63.10 – 2013 Test date : 02.08.2018 Mode of operation : Tx mode (hopping on) Port of testing : Temporary antenna port Supply voltage : 120VAC Temperature : 23°C Humidity : 50%		
Results:		
Time period calculation = $0.4 \times 79 = 31.6s$ Dwell time = $112 \times 2.93 \times 10^{-3} = 0.328 s$ $\leq 0.4 s$		
For test protocols please refer to Appendix 1.		
Verdict: Pass		

FCC 15.247 (a) – Hopping Sequence	Pass
<p>FCC Requirement: The system radio frequency (RF) bandwidth is equal to the channel bandwidth multiplied by the number of channels in the hopset. The hopset shall be such that the near-term distribution of frequencies appears random, with sequential hops randomly distributed in both direction and magnitude of change in the hopset, while the long-term distribution appears evenly distributed.</p>	
<p>Refer to Bluetooth Specification</p>	

FCC 15.247 (a) – Equal Hopping Frequency Use	Pass
<p>FCC Requirement: Each of the transmitter’s hopping channels is used equally on average.</p> <p>The system radio frequency (RF) bandwidth is equal to the channel bandwidth multiplied by the number of channels in the hopset. The hopset shall be such that the near-term distribution of frequencies appears random, with sequential hops randomly distributed in both direction and magnitude of change in the hopset, while the long-term distribution appears evenly distributed.</p>	
<p>Refer to Bluetooth Specification</p>	

FCC 15.247 (a) – Receiver Input Bandwidth	Pass
<p>FCC Requirement: The associated receiver(s) complies with the requirement that its input bandwidth matches the bandwidth of the transmitted signal.</p>	
<p>Refer to Bluetooth Specification</p>	

FCC 15.247 (a) – Receiver Hopping Capability	Pass
<p>FCC Requirement: The associated receiver has the ability to shift frequencies in synchronisation with the transmitted signals.</p>	
<p>Refer to Bluetooth Specification</p>	

FCC 15.247 (d)/ RSS-247 5.5 – Spurious Conducted Emissions					Pass
Test Specification : ANSI C63.10 – 2013 Test date : 02.08.2018 Mode of operation : Tx mode Port of testing : Temporary antenna port Supply voltage : 120VAC Temperature : 23 °C Humidity : 50 %					
FCC Requirement: 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.					
Results: Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and packet types. There is no peak found outside any 100kHz bandwidth of the operating frequency band in the three transmit frequency. All three transmit frequency modes comply with the limit stated in subclause 15.247(d). For test protocols refer to Appendix 1.					
Operating frequency (MHz)	Spurious frequency (MHz)	Spurious Level (dBm)	Reference value (dBm)	Delta (dB)	Verdict
2402	2399.920	-31.98	-2.79	29.18	Pass
2441	2340.000	-46.75	-3.40	43.35	Pass
2480	2484.820	-36.05	-3.66	32.05	Pass

FCC 15.205/ RSS-Gen 8.9 – Radiated Emissions in Restricted Frequency Bands		Pass
Test Specification : ANSI C63.10 – 2013 Test Date : 02.08.2018 Mode of operation : Tx mode Port of testing : Enclosure Frequency range : 9kHz – 25GHz Supply voltage : 120VAC Temperature : 23°C Humidity : 50%		
FCC Requirement: In any 100kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in section 15.205(a), must also comply with the radiated emission limits specified in section 15.205(c).		
IC Requirement: Spurious emissions from licence-exempt transmitters shall comply with the field strength limits shown in RSS-Gen table 5. Unwanted emissions falling into restricted bands of Table 3 shall comply with the limits specified in RSS-Gen. Unwanted emissions not falling within restricted frequency bands shall either comply with the limits specified in the applicable RSS, or with those specified in RSS-Gen.		
Results: Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and data rate. All three transmit frequency modes comply with the field strength within the restricted bands. There is no spurious found below 30MHz.		
Mode: 2402 MHz TX		Vertical Polarization
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
2390.000	46.4	74.0 / PK
2390.000	31.9	54.0 / AV
4804.012	54.3	74.0 / PK
4804.012	49.4	54.0 / AV
7206.000	46.8	74.0 / PK
7206.000	33.5	54.0 / AV
Mode: 2402 MHz TX		Horizontal Polarization
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
2390.000	52.1	74.0 / PK
2390.000	37.9	54.0 / AV
4804.012	51.4	74.0 / PK
4804.012	45.9	54.0 / AV
7206.000	46.4	74.0 / PK
7206.000	33.1	54.0 / AV
Mode: 2441 MHz TX		Vertical Polarization
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
4882.419	54.6	74.0 / PK
4882.419	47.6	54.0 / AV
9764.439	48.9	74.0 / PK

9764.439	35.2	54.0 / AV
Mode: 2441 MHz TX Horizontal Polarization		
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
4881.650	52.6	74.0 / PK
4881.650	45.1	54.0 / AV
9763.669	49.4	74.0 / PK
9763.669	35.1	54.0 / AV
Mode: 2480 MHz TX Vertical Polarization		
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
2483.500	57.9	74.0 / PK
2483.500	44.1	54.0 / AV
4959.650	52.7	74.0 / PK
4959.650	44.8	54.0 / AV
7439.900	48.3	74.0 / PK
7439.900	35.3	54.0 / AV
Mode: 2480 MHz TX Horizontal Polarization		
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
2483.500	61.9	74.0 / PK
2483.500	47.4	54.0 / AV
4960.429	51.4	74.0 / PK
4960.429	42.5	54.0 / AV
7440.435	47.3	74.0 / PK
7440.435	33.7	54.0 / AV