

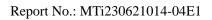
Test Report

- **Report No.:** MTi230621014-04E1
- Date of issue: 2023-07-17
- Applicant: Titan Company Limited
- Product: SMART WATCH
- **Model(s):** 38112
- **FCC ID:** 2AK9F-38112

Shenzhen Microtest Co., Ltd. http://www.mtitest.com

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	-	phs of the test setup	
	-	phs of the EUT	
		A: 20dB Emission Bandwidth	
		B: Maximum conducted output power	
		C: Carrier frequency separation	
		D: Time of occupancy	
		E: Number of hopping channels	
		F: Band edge measurements	
Арр	pendix	G: Conducted Spurious Emission	71



	Test Result Certification				
Applicant:	Titan Company Limited				
Address:	Integrity, #193, Veerasandra, Electronics City P.O., Off Hosur Main Road, Bangalore, India.				
Manufacturer:	FUHONGDA Technology Co. Ltd.				
Address:	No. 222, 1st Floor, Building A, South Gate, Wanliye Science and Technology Park, No. 4, Fuyong Chongqing Road, Baoan District, Shenzhen, Guangdong, China.				
Product description					
Product name:	SMART WATCH				
Trademark:	FASTRACK				
Model name:	38112				
Series Model:	N/A				
Standards:	FCC 47 CFR Part 15 Subpart C				
Test method:	ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02				
Date of Test					
Date of test:	2023-06-30 to 2023-07-10				
Test result:	Pass				

Test Engineer	:	Marleer Deny
		(Maleah Deng)
Reviewed By	•	(cov chen
		(Leon Chen)
Approved By	•••	Tom Kne
		(Tom Xue)



1 General Description

1.1 Description of the EUT

Product name:SMART WATCHModel name:38112Series Model:N/AModel difference:N/AElectrical rating:Input: DC 5V 240Ma Battery: DC 3.8V 300mAhAccessories:Cable: USB-A to Magnetic cable 0.58mHardware version:Cable: USB-A to Magnetic cable 0.58mSoftware version:6.3.370T.XTest sample(s) number:MTi230621014-04S1001RF specificationV5.3Bluetooth version:V5.3Operating frequency range:2402-2480 MhzChannel number:79Modulation type:GFSK,π/4-DQPSK,8DPSKAntenna(s) type:Wire AntennaAntenna(s) gain:-2.54 dBi	•	
Series Model:N/AModel difference:N/AElectrical rating:Input: DC 5V 240Ma Battery: DC 3.8V 300mAhAccessories:Cable: USB-A to Magnetic cable 0.58mHardware version:V1.1Software version:6.3.370T.XTest sample(s) number:MTi230621014-04S1001 RF specification V5.3Bluetooth version:V5.3Operating frequency range:2402-2480 MhzChannel number:79Modulation type:GFSK,π/4-DQPSK,8DPSKAntenna(s) type:Wire Antenna	Product name:	SMART WATCH
Model difference:N/AElectrical rating:Input: DC 5V 240Ma Battery: DC 3.8V 300mAhAccessories:Cable: USB-A to Magnetic cable 0.58mHardware version:V1.1Software version:6.3.370T.XTest sample(s) number:MTi230621014-04S1001 RF specification V5.3Bluetooth version:V5.3Operating frequency range:2402-2480 MhzChannel number:79Modulation type:GFSK,π/4-DQPSK,8DPSKAntenna(s) type:Wire Antenna	Model name:	38112
Electrical rating:Input: DC 5V 240Ma Battery: DC 3.8V 300mAhAccessories:Cable: USB-A to Magnetic cable 0.58mHardware version:V1.1Software version:6.3.370T.XTest sample(s) number:MTi230621014-04S1001 RF specification V5.3Bluetooth version:V5.3Operating frequency range:2402-2480 MhzChannel number:79Modulation type:GFSK,π/4-DQPSK,8DPSKAntenna(s) type:Wire Antenna	Series Model:	N/A
Electrical rating:Battery: DC 3.8V 300mAhAccessories:Cable: USB-A to Magnetic cable 0.58mHardware version:V1.1Software version:6.3.370T.XTest sample(s) number:MTi230621014-04S1001 RF specification V5.3Bluetooth version:V5.3Operating frequency range:2402-2480 MhzChannel number:79Modulation type:GFSK,π/4-DQPSK,8DPSKAntenna(s) type:Wire Antenna	Model difference:	N/A
Hardware version:V1.1Software version:6.3.370T.XTest sample(s) number:MTi230621014-04S1001 RF specification US.3Bluetooth version:V5.3Operating frequency range:2402-2480 MhzChannel number:79Modulation type:GFSK,π/4-DQPSK,8DPSKAntenna(s) type:Wire Antenna	Electrical rating:	
Software version:6.3.370T.XTest sample(s) number:MTi230621014-04S1001 RF specification V5.3Bluetooth version:V5.3Operating frequency range:2402-2480 MhzChannel number:79Modulation type:GFSK,π/4-DQPSK,8DPSKAntenna(s) type:Wire Antenna	Accessories:	Cable: USB-A to Magnetic cable 0.58m
Test sample(s) number:MTi230621014-04S1001 RF specification Bluetooth version:V5.3Operating frequency range:2402-2480 MhzChannel number:79Modulation type:GFSK,π/4-DQPSK,8DPSKAntenna(s) type:Wire Antenna	Hardware version:	V1.1
RF specificationBluetooth version:V5.3Operating frequency range:2402-2480 MhzChannel number:79Modulation type:GFSK,π/4-DQPSK,8DPSKAntenna(s) type:Wire Antenna	Software version:	6.3.370T.X
Bluetooth version:V5.3Operating frequency range:2402-2480 MhzChannel number:79Modulation type:GFSK,π/4-DQPSK,8DPSKAntenna(s) type:Wire Antenna	Test sample(s) number:	MTi230621014-04S1001
Operating frequency range:2402-2480 MhzChannel number:79Modulation type:GFSK,π/4-DQPSK,8DPSKAntenna(s) type:Wire Antenna	RF specification	
range:2402-2400 Mil2Channel number:79Modulation type:GFSK,π/4-DQPSK,8DPSKAntenna(s) type:Wire Antenna	Bluetooth version:	V5.3
Modulation type:GFSK,π/4-DQPSK,8DPSKAntenna(s) type:Wire Antenna		2402-2480 Mhz
Antenna(s) type: Wire Antenna	Channel number:	79
	Modulation type:	GFSK,π/4-DQPSK,8DPSK
Antenna(s) gain: -2.54 dBi	Antenna(s) type:	Wire Antenna
	Antenna(s) gain:	-2.54 dBi

1.2 Description of test modes

All the test modes were carried out with the EUT in normal operation, the final test mode of the EUT was the worst test mode for emission test, which was shown in this report and defined as:

No.	Emission test modes
Mode1	TX- GFSK(CH00, CH39, CH78)
Mode2	TX-π/4-DQPSK (CH00, CH39, CH78)
Mode3	TX- 8DPSK (CH00, CH39, CH78)



1.2.1 Operation channel list

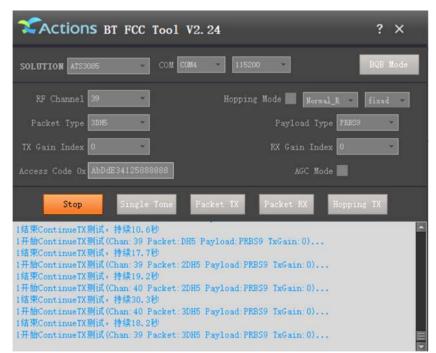
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461	-	-

Note: The test software provided by manufacturer is used to control EUT for working in engineering mode, that enables selectable channel, and capable of continuous transmitting mode.

Mode	Test Software	BT-FCC TOOL V2.24				
Mode	Channel	2402MHz	2441MHz	2480MHz		
GFSK		0	0	0		
π/4-DQPSK	Power setting	0	0	0		
8DPSK		0	0	0		



The test software:





1.3 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C ~ 35°C
Humidity:	20% RH ~ 75% RH
Atmospheric pressure:	98 kPa ~ 101 kPa

1.4 Description of support units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support equipment list							
Description	Model	Serial No.	Manufacturer				
HUAWEI CHARGE (10W)	HW-050200C02	K95212KA103561	HUAWEI				
Support cable list	Support cable list						
Description	Length (m)	From	То				
/	/	/	1				

1.5 Measurement uncertainty

Measurement	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.1dB
Occupied channel bandwidth	±3 %
RF output power, conducted	±1 dB
Time	±1 %
Unwanted Emissions, conducted	±1 dB
Radiated spurious emissions (1GHz~26GHz)	5.3dB
Radiated spurious emissions (9kHz~30MHz)	4.3dB
Radiated spurious emissions (30MHz~1GHz)	4.7dB
Temperature	±1 °C
Humidity	± 5 %

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





2 Summary of Test Result

No.	Item	Standard	Requirement	Result
1	Antenna requirement	47 CFR Part 15.247	47 CFR 15.203	Pass
2	Conducted Emission at AC power line	47 CFR Part 15.247	47 CFR 15.207(a)	Pass
3	Occupied Bandwidth	47 CFR Part 15.247	47 CFR 15.215(c)	Pass
4	Maximum Conducted Output Power	47 CFR Part 15.247	47 CFR 15.247(b)(1)	Pass
5	Channel Separation	47 CFR Part 15.247	47 CFR 15.247(a)(1)	Pass
6	Number of Hopping Frequencies	47 CFR Part 15.247	47 CFR 15.247(a)(1)(iii)	Pass
7	Dwell Time	47 CFR Part 15.247	47 CFR 15.247(a)(1)(iii)	Pass
8	Emissions in non-restricted frequency bands	47 CFR Part 15.247	47 CFR 15.247(d)	Pass
9	Band edge emissions (Radiated)	47 CFR Part 15.247	47 CFR 15.247(d)	Pass
10	Emissions in restricted frequency bands (below 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d)	Pass
11	Emissions in restricted frequency bands (above 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d)	Pass



3 Test Facilities and accreditations

3.1 Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.				
Test site location:	101, No.7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China				
Telephone:	(86-755)88850135				
Fax:	(86-755)88850136				
CNAS Registration No.:	CNAS L5868				
FCC Registration No.:	448573				



4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due		
	Conducted Emission at AC power line							
1	EMI Test Receiver	Rohde&schwarz	ESCI3	101368	2023-04-26	2024-04-25		
2	Artificial mains network	Schwarzbeck	NSLK 8127	183	2023-05-05	2024-05-04		
3	Artificial Mains Network	Schwarzbeck	NSLK 8127	1001	2023-05-06	2024-05-05		
		Occuj	pied Bandwidth		L			
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2023-04-26	2024-04-25		
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051240	2023-04-25	2024-04-24		
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2023-04-25	2024-04-24		
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2023-04-25	2024-04-24		
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2023-04-26	2024-04-25		
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2023-04-26	2024-04-25		
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2023-05-05	2024-05-04		
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2023-04-25	2024-04-24		
9	DC Power Supply	Agilent	E3632A MY40027695		2023-05-05	2024-05-04		
		Maximum Co	nducted Output	Power				
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	CMW500 149155		2024-04-25		
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051240	2023-04-25	2024-04-24		
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2023-04-25	2024-04-24		
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2023-04-25	2024-04-24		
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2023-04-26	2024-04-25		
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2023-04-26	2024-04-25		
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2023-05-05	2024-05-04		
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2023-04-25	2024-04-24		
9	DC Power Supply	Agilent	E3632A	MY40027695	2023-05-05	2024-05-04		
	Channel Separation							
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2023-04-26	2024-04-25		
2	ESG Series Analog Ssignal Generator	Agilent	ilent E4421B GB40051240		2023-04-25	2024-04-24		
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2023-04-25	2024-04-24		
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2023-04-25	2024-04-24		



No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2023-04-26	2024-04-25
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2023-04-26	2024-04-25
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2023-05-05	2024-05-04
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2023-04-25	2024-04-24
9	DC Power Supply	Agilent	E3632A	MY40027695	2023-05-05	2024-05-04
		Number of	Hopping Freque	ncies		
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2023-04-26	2024-04-25
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051240	2023-04-25	2024-04-24
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2023-04-25	2024-04-24
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2023-04-25	2024-04-24
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2023-04-26	2024-04-25
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2023-04-26	2024-04-25
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2023-05-05	2024-05-04
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2023-04-25	2024-04-24
9	DC Power Supply	Agilent	E3632A	MY40027695	2023-05-05	2024-05-04
		C	Dwell Time			
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2023-04-26	2024-04-25
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051240	2023-04-25	2024-04-24
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2023-04-25	2024-04-24
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2023-04-25	2024-04-24
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2023-04-26	2024-04-25
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2023-04-26	2024-04-25
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2023-05-05	2024-05-04
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2023-04-25	2024-04-24
9	DC Power Supply	Agilent	E3632A	MY40027695	2023-05-05	2024-05-04
		Emissions in non-	-restricted freque	ency bands		
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2023-04-26	2024-04-25
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051240	2023-04-25	2024-04-24
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2023-04-25	2024-04-24
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2023-04-25	2024-04-24



No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
5	MXA Signal Analyzer Agilent		N9020A	MY50143483	2023-04-26	2024-04-25
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2023-04-26	2024-04-25
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2023-05-05	2024-05-04
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2023-04-25	2024-04-24
9	DC Power Supply	Agilent	E3632A	MY40027695	2023-05-05	2024-05-04
		Band edge	emissions (Radi	ated)		
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2023-04-26	2024-04-25
2	Double Ridged Broadband Horn Antenna	schwarabeck	BBHA 9120 D	2278	2023-05-26	2024-05-25
3	Amplifier Agilent		8449B	3008A01120	2023-05-26	2024-05-25
4	Multi-device Controller	TuoPu	TPMDC	/	/	/
5	MXA signal analyzer	Agilent	N9020A	MY54440859	2023-05-05	2024-05-04
	Em	issions in restricted	I frequency band	ls (below 1GHz)		
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2023-04-26	2024-04-25
2	TRILOG Broadband Antenna	schwarabeck	VULB 9163	9163-1338	2023-06-11	2025-06-10
3	Amplifier	Hewlett-Packard	8447F	3113A06184	2023-04-26	2024-04-25
4	Multi-device Controller	TuoPu	TPMDC	/	/	/
	Em	issions in restricted	frequency band	s (above 1GHz)		
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2023-04-26	2024-04-25
2	Double Ridged Broadband Horn Antenna	schwarabeck	BBHA 9120 D	2278	2023-05-26	2024-05-25
3	Amplifier	Agilent	8449B	3008A01120	2023-05-26	2024-05-25
4	Multi-device Controller	TuoPu	TPMDC	1	/	/
5	MXA signal analyzer	Agilent	N9020A	MY54440859	2023-05-05	2024-05-04



5 Evaluation Results (Evaluation)

5.1 Antenna requirement

Test Requirement:	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.
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6 Radio Spectrum Matter Test Results (RF)

6.1 Conducted Emission at AC power line

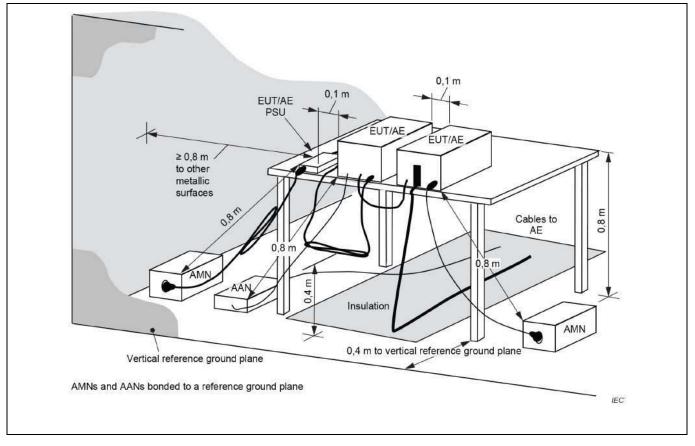
Test Requirement:	Except as shown in paragraphs (radiator that is designed to be co the radio frequency voltage that i any frequency or frequencies, wi exceed the limits in the following line impedance stabilization netw	nnected to the public ut is conducted back onto thin the band 150 kHz to table, as measured using	ility (AC) power line the AC power line c o 30 MHz, shall not	on t	
Test Limit:	Frequency of emission (MHz)	Conducted limit (dBµ\	/)		
		Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	*Decreases with the logarithm of	the frequency.			
Test Method:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power- line conducted emissions from unlicensed wireless devices				

6.1.1 E.U.T. Operation:

Operating Envi	Operating Environment:						
Temperature:	25.6 °C		Humidity:	61 %		Atmospheric Pressure:	101 kPa
Pre test mode: Mo		Mode	e1, Mode2,	Mode3			
Final test mode: Mod		Mode	e1				

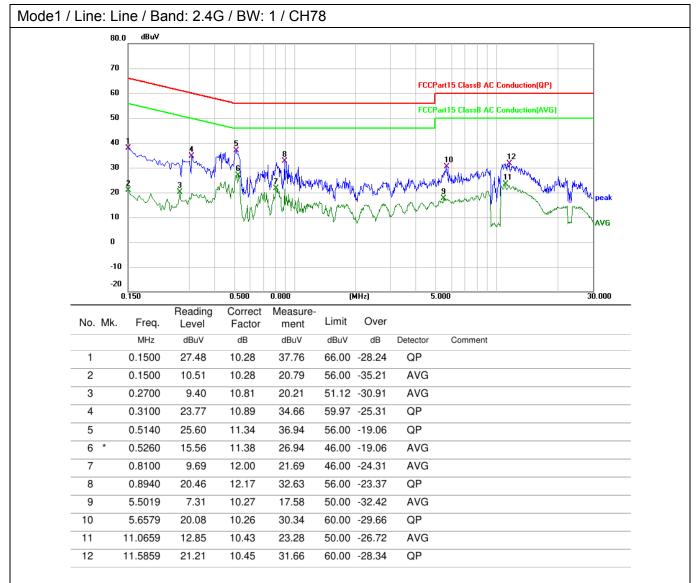


6.1.2 Test Setup Diagram:

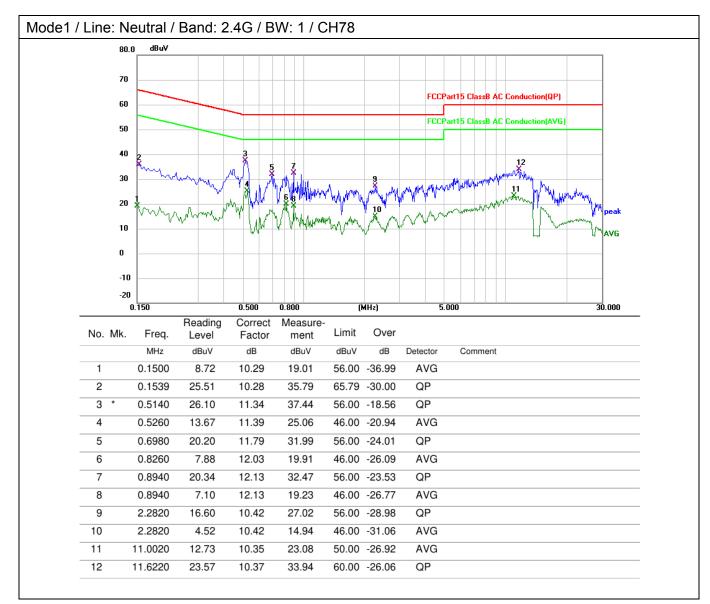




6.1.3 Test Data:









6.2 Occupied Bandwidth

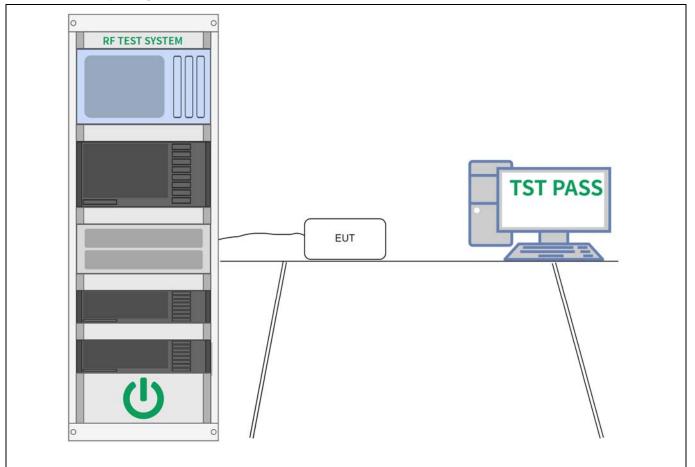
-	
Test Requirement:	Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Limit:	Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	Occupied bandwidth—relative measurement procedure
Procedure:	 a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2. d) Steps a) through c) might require iteration to adjust within the specified tolerances. e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target "-xx dB down" requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value. f) Set detection mode to peak and trace mode to max hold. g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value). h) Determine the "-xx dB down amplitude" using [(reference value) - xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument. i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j). j) Place two markers, one at the lowest frequency and the other at the highest frequency of the enve



6.2.1 E.U.T. Operation:

Operating Environment:							
Temperature:	26 °C		Humidity:	57 %		Atmospheric Pressure:	101 kPa
Pre test mode: Mod		e1, Mode2,	Mode3				
Final test mode: Mod		Mode	e1, Mode2, I	Mode3			

6.2.2 Test Setup Diagram:



6.2.3 Test Data:

Please Refer to Appendix for Details.



6.3 Maximum Conducted Output Power

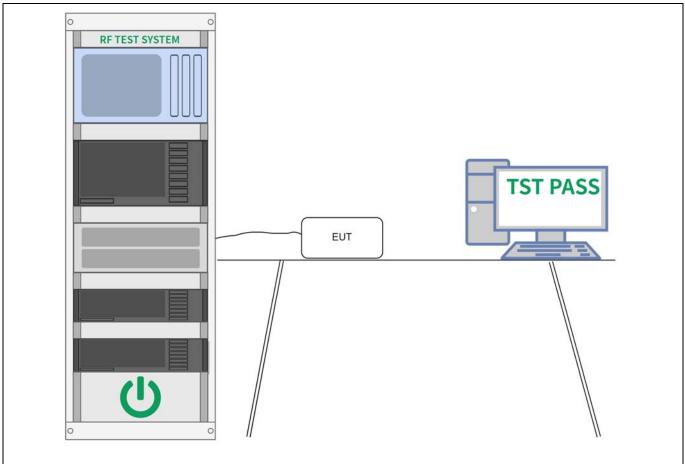
devices		
In the indicated level is the peak output power, after any corrections for explanation. employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts. Test Method: Output power test procedure for frequency-hopping spread-spectrum (FHSS) devices Procedure: This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test: a) Use the following spectrum analyzer settings: 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. 2) RBW > 20 dB bandwidth of the emission being measured. 3) VBW >= RBW. 4) Sweep: Auto. 5) Detector function: Peak. 6) Trace: Max hold. b) Allow trace to stabilize. c) Use the marker-to-peak function to set the marker to the peak of the emission. d) The indicated level is the peak output power, after any corrections for external attenuators and cables. e) A plot of the test results and setup description shall be included in the test report. NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum 		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
Test Method: devices Procedure: This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test: a) Use the following spectrum analyzer settings: 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. 2) RBW > 20 dB bandwidth of the emission being measured. 3) VBW >= RBW. 4) Sweep: Auto. 5) Detector function: Peak. 6) Trace: Max hold. b) Allow trace to stabilize. c) Use the marker-to-peak function to set the marker to the peak of the emission. d) The indicated level is the peak output power, after any corrections for external attenuators and cables. e) A plot of the test results and setup description shall be included in the test report. NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum 	Test Limit:	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
 direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test: a) Use the following spectrum analyzer settings: 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. 2) RBW > 20 dB bandwidth of the emission being measured. 3) VBW >= RBW. 4) Sweep: Auto. 5) Detector function: Peak. 6) Trace: Max hold. b) Allow trace to stabilize. c) Use the marker-to-peak function to set the marker to the peak of the emission. d) The indicated level is the peak output power, after any corrections for external attenuators and cables. e) A plot of the test results and setup description shall be included in the test report. NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum 	Test Method:	Output power test procedure for frequency-hopping spread-spectrum (FHSS) devices
	Procedure:	 and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test: a) Use the following spectrum analyzer settings: 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. 2) RBW > 20 dB bandwidth of the emission being measured. 3) VBW >= RBW. 4) Sweep: Auto. 5) Detector function: Peak. 6) Trace: Max hold. b) Allow trace to stabilize. c) Use the marker-to-peak function to set the marker to the peak of the emission. d) The indicated level is the peak output power, after any corrections for external attenuators and cables. e) A plot of the test results and setup description shall be included in the test report. NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum

6.3.1 E.U.T. Operation:

Operating Environment:							
Temperature:	26 °C		Humidity:	57 %		Atmospheric Pressure:	101 kPa
Pre test mode: Mod		e1, Mode2,	Mode3				
Final test mode: Mod		e1, Mode2,	Mode3				



6.3.2 Test Setup Diagram:



6.3.3 Test Data:

Please Refer to Appendix for Details.



6.4 Channel Separation

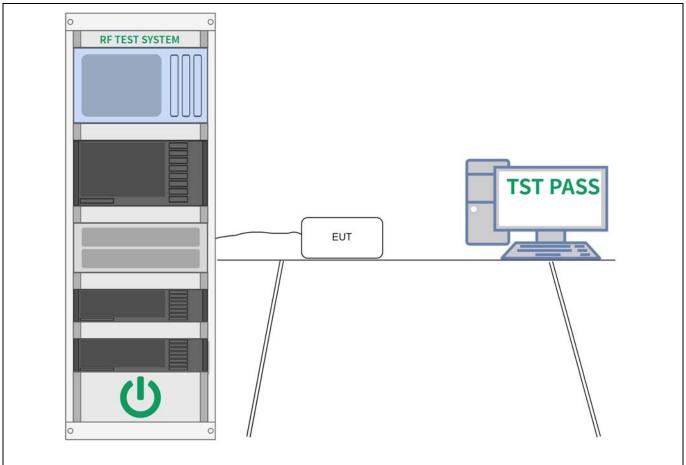
Test Requirement:	Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
Test Limit:	Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
Test Method:	Carrier frequency separation
Procedure:	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Wide enough to capture the peaks of two adjacent channels. b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel. c) Video (or average) bandwidth (VBW) ≥ RBW. d) Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A plot of the data shall be included in the test report.

6.4.1 E.U.T. Operation:

Operating Envi	ironment:					
Temperature:	26 °C		Humidity:	57 %	Atmospheric Pressure:	101 kPa
Pre test mode:		Mode	e1, Mode2,	Mode3		
Final test mode	e:	Mode	e1, Mode2,	Mode3		



6.4.2 Test Setup Diagram:



6.4.3 Test Data:

Please Refer to Appendix for Details.



6.5 Number of Hopping Frequencies

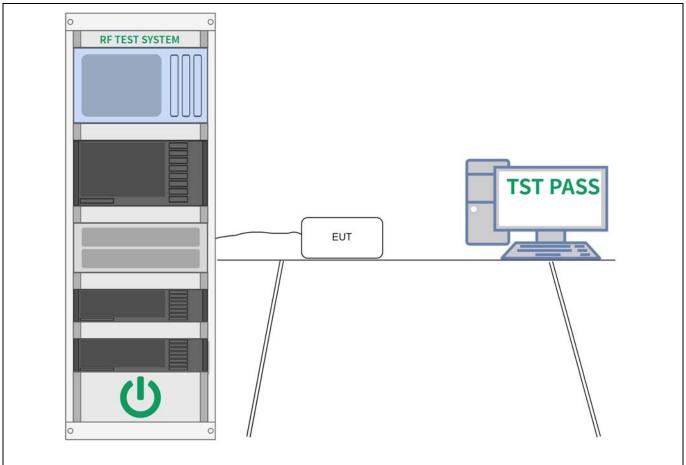
Test Requirement:	Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Limit:	Fequency 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. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	Number of hopping frequencies
Procedure:	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen. b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. c) VBW ≥ RBW. d) Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize. It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.

6.5.1 E.U.T. Operation:

Operating Envi	ironment:					
Temperature:	26 °C		Humidity:	57 %	Atmospheric Pressure:	101 kPa
Pre test mode:		Mode	e1, Mode2, I	Mode3		
Final test mode	e:	Mode	e1, Mode2, I	Mode3		



6.5.2 Test Setup Diagram:



6.5.3 Test Data:

Please Refer to Appendix for Details.



6.6 Dwell Time

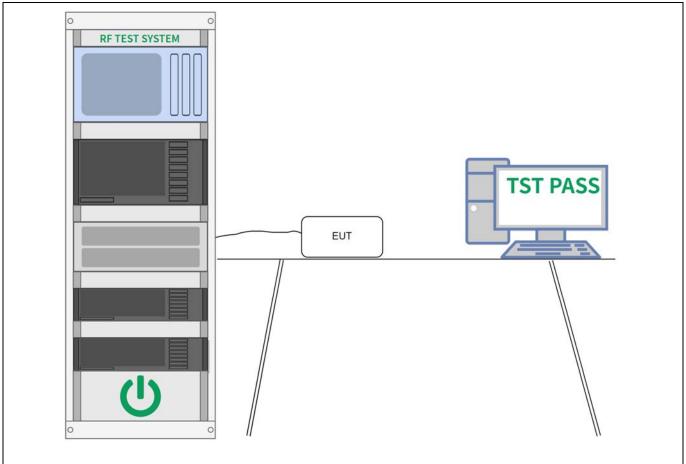
Test Requirement:	Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Limit:	Fequency 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. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	Time of occupancy (dwell time)
Procedure:	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Zero span, centered on a hopping channel. b) RBW shall be <= channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel. c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel. d) Detector function: Peak. e) Trace: Max hold. Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation: (Number of hops on spectrum analyzer) × (period specified in the requirements / analyzer sweep time) The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation. The measured transmit time and time between hops shall be consistent with the values described in the operational description for the EUT.

6.6.1 E.U.T. Operation:

Operating Envi	ronment:					
Temperature:	26 °C		Humidity:	57 %	Atmospheric Pressure:	101 kPa
Pre test mode:		Mode	e1, Mode2,	Mode3		
Final test mode	e:	Mode	e1, Mode2,	Mode3		



6.6.2 Test Setup Diagram:



6.6.3 Test Data:

Please Refer to Appendix for Details.



6.7 Emissions in non-restricted frequency bands

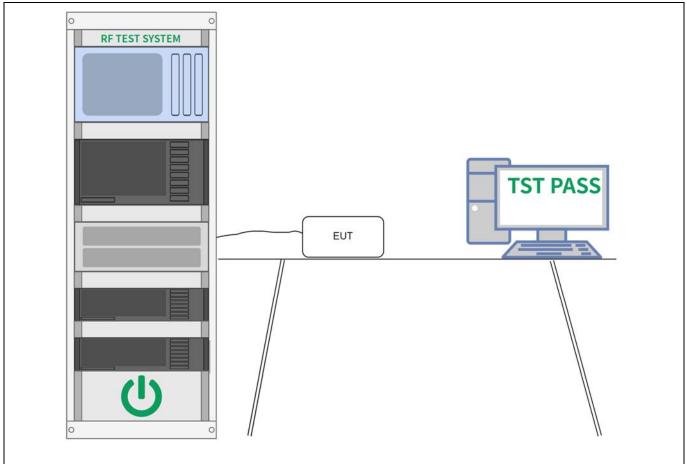
Test Requirement:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, 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 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Limit:	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 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	Conducted spurious emissions test methodology
Procedure:	Conducted spurious emissions shall be measured for the transmit frequency, per 5.5 and 5.6, and at the maximum transmit powers. Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The instrument shall span 30 MHz to 10 times the operating frequency in GHz, with a resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector. The band 30 MHz to the highest frequency may be split into smaller spans, as long as the entire spectrum is covered.

6.7.1 E.U.T. Operation:

Operating Envi	ronment:					
Temperature:	26 °C		Humidity:	57 %	Atmospheric Pressure:	101 kPa
Pre test mode:		Mode	e1, Mode2, I	Mode3		
Final test mode	e:	Mode	e1, Mode2, I	Mode3		



6.7.2 Test Setup Diagram:



6.7.3 Test Data:

Please Refer to Appendix for Details.



6.8 Band edge emissions (Radiated)

Test Requirement:		nissions which fall in the rest comply with the radiated em 5(c)).`	-
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measuremen t distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
	intentional radiators op frequency bands 54-72	n paragraph (g), fundamenta erating under this section sh MHz, 76-88 MHz, 174-216 hin these frequency bands is g.,	all not be located in the MHz or 470-806 MHz.
Test Method:	Radiated emissions tes	sts	
Procedure:	ANSI C63.10-2013 sec	tion 6.10	

6.8.1 E.U.T. Operation:

Operating Envi	ronment:					
Temperature:	25 °C		Humidity:	58 %	Atmospheric Pressure:	101 kPa
Pre test mode:		Mode	e1, Mode2,	Mode3		
Final test mode	e:	Mode	e1			



6.8.2 Test Data:

Mode1 / Po	olarizat	tion:	Horizontal	/ Band: 2.4	IG / BW: 1	/ CH00			
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1		2310.000	47.36	-8.08	39.28	74.00	-34.72	peak
	2		2310.000	37.35	-8.08	29.27	54.00	-24.73	AVG
	3		2390.000	47.86	-7.71	40.15	74.00	-33.85	peak
	4	*	2390.000	37.64	-7.71	29.93	54.00	-24.07	AVG



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No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	47.29	-8.08	39.21	74.00	-34.79	peak
2		2310.000	37.13	-8.08	29.05	54.00	-24.95	AVG
3		2390.000	48.87	-7.71	41.16	74.00	-32.84	peak
4	*	2390.000	37.85	-7.71	30.14	54.00	-23.86	AVG



No	M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	47.22	-7.24	39.98	74.00	-34.02	peak
2		2483.500	37.59	-7.24	30.35	54.00	-23.65	AVG
3		2500.000	47.07	-7.17	39.90	74.00	-34.10	peak
4	*	2500.000	37.85	-7.17	30.68	54.00	-23.32	AVG



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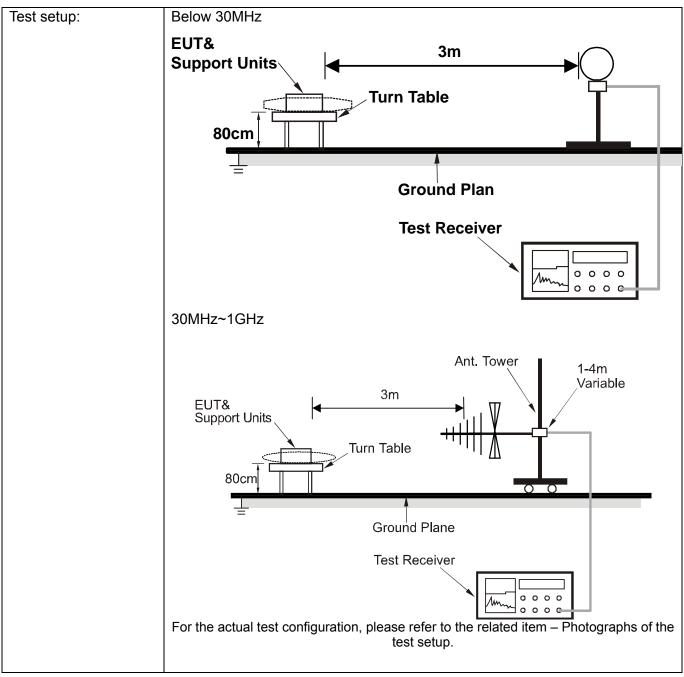
No.	М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	47.91	-7.24	40.67	74.00	-33.33	peak
2	*	2483.500	37.84	-7.24	30.60	54.00	-23.40	AVG
3		2500.000	47.10	-7.17	39.93	74.00	-34.07	peak
4		2500.000	37.77	-7.17	30.60	54.00	-23.40	AVG



6.9 Emissions in restricted frequency bands (below 1GHz)

Test Requirement:		nissions which fall in the rest comply with the radiated em 5(c)).`					
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measuremen t distance (meters)				
	0.009-0.490	2400/F(kHz)	300				
	0.490-1.705	24000/F(kHz)	30				
	1.705-30.0	30	30				
	30-88	100 **	3				
	88-216	150 **	3				
	216-960	200 **	3				
	Above 960	500	3				
	 ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. 						
Test Method:	Radiated emissions tests						
Procedure:	ANSI C63.10-2013 section 6.6.4						





6.9.1 E.U.T. Operation:

Operating Environment:								
Temperature:	26 °C		Humidity:	54 %		Atmospheric Pressure:	101 kPa	
Pre test mode:		Mode1, Mode2, Mode3						
Final test mode:		Mode1						

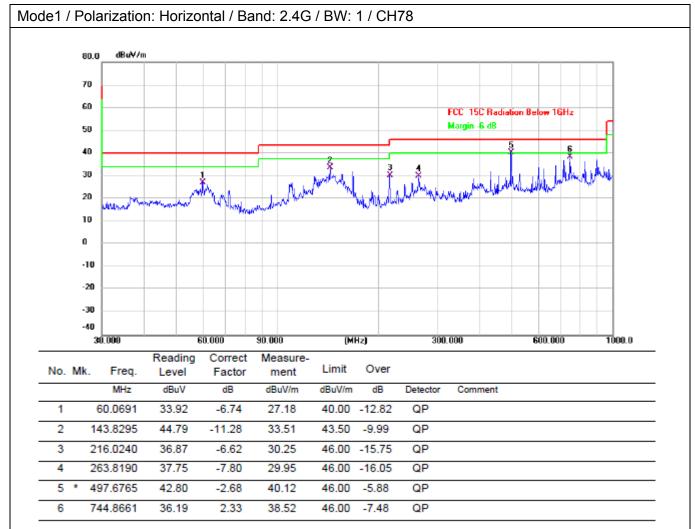
Note:

The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.

All modes of operation of the EUT were investigated, and only the worst-case results are reported. There were no emissions found below 30MHz within 20dB of the limit.

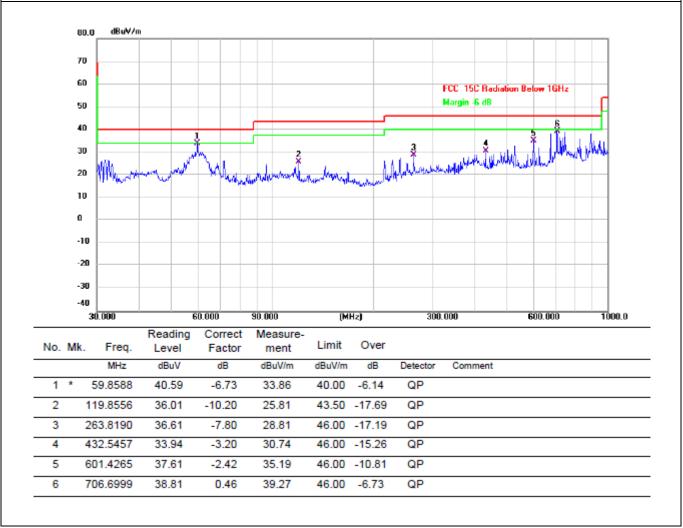


6.9.2 Test Data:





Mode1 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH78





6.10 Emissions in restricted frequency bands (above 1GHz)

Test Requirement:		issions which fall in the rest comply with the radiated em (c)).`	
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measuremen t distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
	frequency bands 54-72 However, operation with sections of this part, e.g §§ 15.231 and 15.241.		MHz or 470-806 MHz.
Test Method:	Radiated emissions test	S	
Procedure:	ANSI C63.10-2013 sect	ion 6.6.4	
Test setup:	Above 1GHz	Ground Plane Spectrum analyzer	o c
	For the actual test configu test setup.	Mm 0 0	0 0

6.10.1 E.U.T. Operation:

Operating Environment:									
Temperature:	emperature: 26 °C Humidity: 54 % Atmospheric Pressure: 101 kPa								
Pre test mode: Mode1, Mode2, Mode3									
Final test mode: Mode1									
Note: Test frequency are from 1GHz to 25GHz, the amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported. All modes of operation of the EUT were investigated, and only the worst-case results are reported.									

Address: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, ChinaTel: (86-755)88850135Fax: (86-755) 88850136Web: www.mtitest.comE-mail: mti@51mti.com



6.10.2 Test Data:

Mode1 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH00 Reading Correct Measure-Limit Over No. Mk. Freq. Level Factor ment dB MHz dBuV dBuV/m dBuV/m dB Detector 4804.000 40.58 0.74 41.32 74.00 -32.68 1 peak 2 4804.000 34.40 0.74 35.14 54.00 -18.86 AVG 3 7206.000 40.96 46.98 6.02 74.00 -27.02 peak 7206.000 34.21 40.23 54.00 -13.77 4 6.02 AVG 5 9608.000 40.92 5.88 46.80 74.00 -27.20 peak 6 * 9608.000 34.45 5.88 40.33 54.00 -13.67 AVG



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No.	Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4804.000	40.45	0.74	41.19	74.00	-32.81	peak
2		4804.000	34.37	0.74	35.11	54.00	-18.89	AVG
3		7206.000	39.68	6.02	45.70	74.00	-28.30	peak
4		7206.000	33.19	6.02	39.21	54.00	-14.79	AVG
5		9608.000	41.19	5.88	47.07	74.00	-26.93	peak
6	*	9608.000	35.13	5.88	41.01	54.00	-12.99	AVG



Mode1 / Po	olariza	rization: Horizontal / Band: 2.4G / BW: 1 / CH39									
	No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector		
	1		4882.000	40.59	1.05	41.64	74.00	-32.36	peak		
	2		4882.000	34.17	1.05	35.22	54.00	-18.78	AVG		
	3		7323.000	40.82	5.94	46.76	74.00	-27.24	peak		
	4		7323.000	34.27	5.94	40.21	54.00	-13.79	AVG		
	5		9764.000	40.69	6.55	47.24	74.00	-26.76	peak		
	6	*	9764.000	34.63	6.55	41.18	54.00	-12.82	AVG		



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Mode1 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH39

No. M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	4882.000	40.01	1.05	41.06	74.00	-32.94	peak
2	4882.000	33.97	1.05	35.02	54.00	-18.98	AVG
3	7323.000	39.99	5.94	45.93	74.00	-28.07	peak
4	7323.000	33.28	5.94	39.22	54.00	-14.78	AVG
5	9764.000	40.19	6.55	46.74	74.00	-27.26	peak
6 *	9764.000	33.86	6.55	40.41	54.00	-13.59	AVG



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Mode1 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH78

MHz 1 4960.000 2 4960.000 3 7440.000		dB 1.50	dBuV/m 43.10	dBuV/m 74.00	dB -30.90	Detector peak
2 4960.000				74.00	-30.90	peak
	25.55	4.50				
3 7440.000	30.00	1.50	37.05	54.00	-16.95	AVG
	39.97	5.61	45.58	74.00	-28.42	peak
4 7440.000	33.54	5.61	39.15	54.00	-14.85	AVG
5 9920.000	40.87	6.10	46.97	74.00	-27.03	peak
6 * 9920.000	34,45	6.10	40.55	54.00	-13.45	AVG



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No.	M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4960.000	40.79	1.50	42.29	74.00	-31.71	peak
2		4960.000	34.65	1.50	36.15	54.00	-17.85	AVG
3		7440.000	39.93	5.61	45.54	74.00	-28.46	peak
4		7440.000	33.60	5.61	39.21	54.00	-14.79	AVG
5		9920.000	40.59	6.10	46.69	74.00	-27.31	peak
6	*	9920.000	34.12	6.10	40.22	54.00	-13.78	AVG



Photographs of the test setup

Refer to Appendix - Test Setup Photos



Photographs of the EUT

Refer to Appendix - EUT Photos



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Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]
		2402	0.966
DH5	Ant1	2441	0.954
		2480	0.963
		2402	1.272
2DH5	Ant1	2441	1.290
		2480	1.284
		2402	1.203
3DH5	Ant1	2441	1.209
		2480	1.263



Test Graphs





