

TEST REPORT

FCC ID: 2AKIN-CNMD0016

Product: CINEMOOD STORYTELLER

Model No.: CNMD0016

Additional Model No.: CNMD0016XX

Trade Mark: CINEMOOD

Report No.: TCT180628E028

Issued Date: Jul. 06, 2018

Issued for:

CINEMOOD Trendsetters co.
2711 Centerville Road, Suite 400, Wilmington, New Castle County, Delaware,
19808 United States

Issued By:

Shenzhen Tongce Testing Lab.

1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

TEL: +86-755-27673339 FAX: +86-755-27673332

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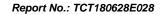




TABLE OF CONTENTS

1.	Test Certification	3
2.	Test Result Summary	4
3.	EUT Description	5
4.	Genera Information	
	4.1. Test environment and mode	7
	4.2. Description of Support Units	8
5.	Facilities and Accreditations	
	5.1. Facilities	9
	5.2. Location	9
	5.3. Measurement Uncertainty	9
6.	Test Results and Measurement Data	
	6.1. Antenna requirement	10
	6.2. Conducted Emission	11
	6.3. Maximum Conducted (Average) Output Power	
	6.4. Emission Bandwidth	16
	6.5. Power Spectral Density	17
	6.6. Conducted Band Edge and Spurious Emission Measurement	
	6.7. Radiated Spurious Emission Measurement	20
Α	ppendix A: Test Result of Conducted Test	
Α	ppendix B: Photographs of Test Setup	
Α	ppendix C: Photographs of EUT	



1. Test Certification

Product:	CINEMOOD STORYTELLER					
Model No.:	CNMD0016					
Additional Model:	CNMD0016XX					
Trade Mark:	CINEMOOD					
Applicant:	CINEMOOD Trendsetters co.					
Address: 2711 Centerville Road, Suite 400, Wilmington, New Castle Delaware, 19808 United States						
Manufacturer:	Jiuzhou Group(Hong Kong)Holdings Limited					
Address:	Jiuzhou Industrial Park, Gongming, Guangming New District, Shenzhen, China					
Date of Test:	Jun. 29, 2018 – Jul. 05, 2018					
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 KDB 558074 D01 DTS Meas Guidance v04					

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By: Jul. 05, 2018

Jin Wang

Reviewed By: Jul. 06, 2018

Beryl Zhao

Approved By: Jul. 06, 2018

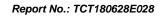
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2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247 (b)(3) §2.1046	PASS
6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	1§5.247(d) §2.1051, §2.1057	PASS
Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	PASS

- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.





3. EUT Description

Product:	CINEMOOD STORYTELLER
Model No.:	CNMD0016
Additional Model:	CNMD0016XX: XX – It's regional code like US/RU/EU, etc.
Trade Mark:	CINEMOOD
Hardware Version:	Main Board: V1.6.2 Key Board: V1.3
Software Version:	1239
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40))
Channel Separation:	5MHz
Number of Channel:	11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)
Modulation Technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation Technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps
Data speed (IEEE 802.11n):	Up to 150Mbps
Antenna Type:	Internal Antenna
Antenna Gain:	2dBi
Power Supply:	Rechargeable Li-ion battery DC 3.7V
AC adapter:	Adapter Information: MODEL: KA1517-0502000USU INPUT: AC 100-240V, 50/60Hz, 0.35A OUTPUT: 5V, 2.0A
Remark:	All models above are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement.



Operation Frequency each of channel For 802.11b/g/n(HT20)

	1 1 1 1 1 1 1 1 1	7		9	9.1.(/		
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		$(^{\times}C_{7})$

Operation Frequency each of channel For 802.11n (HT40)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
	80	4	2427MHz	7	2442MHz	(S-1)	-
	-	5	2432MHz	8	2447MHz		1
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/802.11g/802.11n (HT20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

802.11n (HT40)

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz





4. Genera Information

4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%)

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. For the full battery state and The output power to the maximum state.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps
802.11n(H40)	13.5Mbps
Final Test Mede.	

Final Test Mode:

Operation mode:	Keep the EUT in continuous transmitting		
	with modulation		

- 1. For WIFI function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.
- 2. According to ANSI C63.10 standards, the test results are both the "worst case" and



"worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20), 13.5Mbps for 802.11(H40). Duty cycle setting during the transmission is 98.5% with maximum power setting for all modulations.

4.2. 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.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	1	/	1	/

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



Page 8 of 76



5. Facilities and Accreditations

5.1. Facilities

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

• FCC - Registration No.: 645098

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

• IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District,

Shenzhen, Guangdong, China

TEL: +86-755-27673339

5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1G)	±3.92dB
5	All emissions, radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%



6. Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

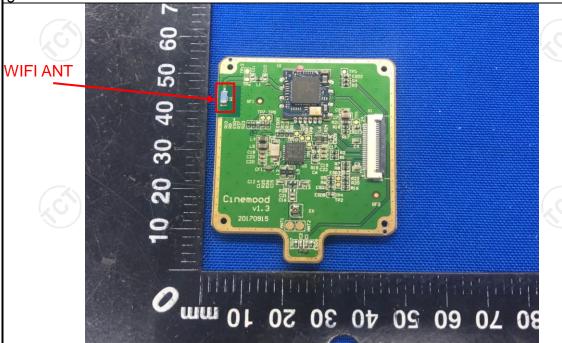
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

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

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi 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 6dBi.

E.U.T Antenna:

The WIFI antenna is internal antenna which permanently attached, and the best case gain of the antenna is 2dBi.



Page 10 of 76



6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	FCC Part15 C Section 15.207						
Test Method:	ANSI C63.10:2013	ANSI C63.10:2013						
Frequency Range:	150 kHz to 30 MHz							
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	=auto					
	Frequency range	Frequency range Limit (dBuV)						
	(MHz)	Quasi-peak	Áverage					
Limits:	0.15-0.5	66 to 56*	56 to 46*					
	0.5-5	56	46					
	5-30	60	50					
	Reference	ce Plane						
Test Setup:	EMI Receiver	— AC power						
Test Mode:	Charging + transmittin	Charging + transmitting with modulation						
Test Procedure:	line impedance star provides a 50ohm/s measuring equipme 2. The peripheral device power through a L coupling impedance refer to the block photographs). 3. Both sides of A.C. conducted interfered emission, the relative the interface cables	 The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 						
Test Result:	PASS							



6.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)							
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
Test Receiver	R&S	ESPI	101401	Sep. 27, 2018			
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 27, 2018			
Coax cable (9KHz-30MHz)	тст	CE-05	N/A	Sep. 27, 2018			
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

Page 12 of 76

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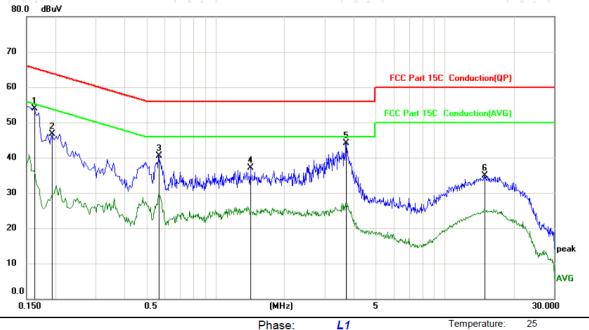




6.2.3. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Limit: FCC Part 15C Conduction(QP)

Power: AC 120V/60Hz

Humidity: 55 %

Reading Correct Measure-Limit Over No. Mk. Freq. Level Factor ment dB dBuV MHz dBuV dBuV dB Detector Comment 52.46 0.1620 1.49 53.95 65.36 -11.41 peak 2 0.1940 45.27 1.47 46.74 63.86 -17.12 peak 39.23 1.29 56.00 -15.48 3 0.5660 40.52 peak 1.4220 35.65 1.42 37.07 56.00 -18.93 4 peak 5 3.7060 43.07 1.08 44.15 56.00 -11.85 peak 14.8780 33.29 1.70 34.99 60.00 -25.01 6 peak

Note:

Site

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement ($dB\mu V$) = Reading level ($dB\mu V$) + Corr. Factor (dB)

Limit (dBμV) = Limit stated in standard

Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)

Q.P. =Quasi-Peak

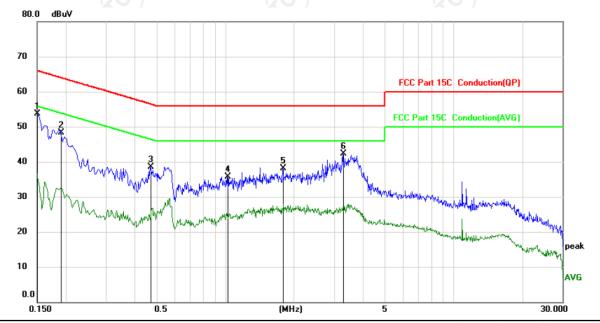
AVG =average

^{*} is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.





Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Site Phase: N Temperature: 25

Limit: FCC Part 15C Conduction(QP) Power: AC 120V/60Hz Humidity: 55 %

	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
_	1	*	0.1500	52.22	1.50	53.72	66.00	-12.28	peak	
_	2		0.1904	46.80	1.47	48.27	64.02	-15.75	peak	
_	3		0.4700	37.23	1.32	38.55	56.51	-17.96	peak	
_	4		1.0260	34.56	1.22	35.78	56.00	-20.22	peak	
_	5		1.7860	36.50	1.59	38.09	56.00	-17.91	peak	
_	6		3.2900	41.10	1.24	42.34	56.00	-13.66	peak	

Note:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)

 $Limit (dB\mu V) = Limit stated in standard$

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak

AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

Page 14 of 76





6.3. Maximum Conducted (Average) Output Power

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)					
Test Method:	KDB 558074					
Limit:	30dBm					
Test Setup:	Spectrum Analyzer EUT					
Test Mode:	Transmitting mode with modulation					
Test Procedure:	 The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Measure the conducted output power and record the results in the test report. 					
Test Result:	PASS					

6.3.2. Test Instruments

RF Test Room							
Equipment Manufacturer Model Serial Number Calibration Du							
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018			
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018			
Antenna Connector	тст	RFC-01	N/A	Sep. 27, 2018			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

Page 15 of 76



6.4. Emission Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)				
Test Method:	KDB 558074				
Limit:	>500kHz				
Test Setup:	EUT.				
	Spectrum Analyzer				
Test Mode:	Transmitting mode with modulation				
Test Procedure:	 The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v04. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report. 				
Test Result:	PASS				

6.4.2. Test Instruments

RF Test Room							
Equipment Manufacturer Model Serial Number Calibra							
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018			
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018			
Antenna Connector	тст	RFC-01	N/A	Sep. 27, 2018			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

Page 16 of 76



6.5. Power Spectral Density

6.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)				
Test Method:	KDB 558074				
Limit:	The average power spectral density shall not be greated than 8dBm in any 3kHz band at any time interval continuous transmission.				
Test Setup:	Spectrum Analyzer EUT				
Test Mode:	Transmitting mode with modulation				
Test Procedure:	 The testing follows Measurement Procedure 10.3 Method AVGPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the span to at least 1.5 times the OBW. Detector = RMS, Sweep time = auto couple. Employ trace averaging (RMS) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report. 				
Test Result:	PASS				

6.5.2. Test Instruments

RF Test Room							
Equipment Manufacturer Model Serial Number Calibration D							
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018			
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018			
Antenna Connector	TCT	RFC-01	N/A	Sep. 27, 2018			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



6.6. Conducted Band Edge and Spurious Emission Measurement

6.6.1. Test Specification

FCC Part15 C Section 15.247 (d)					
KDB558074					
In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and 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 15.209(a).					
Spectrum Analyzer EUT					
Transmitting mode with modulation					
 The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. 					
PASS					



6.6.2. Test Instruments

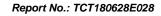
RF Test Room							
Equipment Manufacturer Model Serial Number Calibration Du							
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018			
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018			
Antenna Connector	TCT	RFC-01	N/A	Sep. 27, 2018			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



Page 19 of 76

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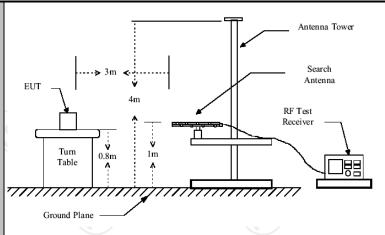


6.7. Radiated Spurious Emission Measurement

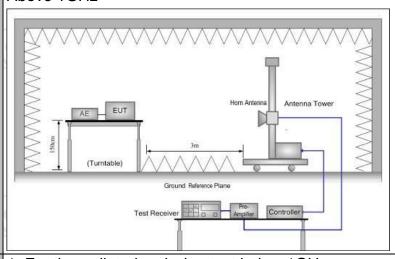
6.7.1. Test Specification

Test Method:	Test Requirement:	FCC Part15	C Section	n 15.209					
Measurement Distance: 3 m Horizontal & Vertical	Test Method:	ANSI C63.10	D: 2013	(0)		((C)		
Antenna Polarization: Horizontal & Vertical	Frequency Range:	9 kHz to 25 (GHz						
Part	Measurement Distance:	3 m							
Frequency	Antenna Polarization:	Horizontal &	Vertical		(,C)				
Receiver Setup: SkHz- 150kHz	Operation mode:	Transmitting	mode wi	th modulat	ion				
150kHz-30MHz						Oua			
30MHz-1GHz	Receiver Setup:	150kHz-							
Receiver Peak 1MHz 10Hz Average Value	·	30MHz-1GHz	Quasi-pea	k 100KHz		1			
Frequency		Above 1GHz							
Computer Computer			Peak	1MHz	10Hz	Ave	erage Value		
D.490-1.705 24000/F(KHz) 30		Frequen	псу		-				
1.705-30 30 30 30 30 30 30-88 100 3 88-216 150 3 216-960 200 3 Above 960 500 3 Above 960 500 3 Average Above 1GHz 500 3 Average 5000 3 Peak Test setup:		0.009-0.490		2400/F(I	KHz)				
Section Sect									
Receiver Receiver					<u> </u>				
Limit: 216-960									
Above 960 500 3 Frequency Field Strength (microvolts/meter) Detector (meters) Above 1GHz 500 3 Average 5000 3 Peak For radiated emissions below 30MHz Test setup:	Limit:								
Frequency Field Strength (microvolts/meter) Distance (meters) Above 1GHz 500 3 Average 5000 3 Peak For radiated emissions below 30MHz Test setup:									
Frequency Field Strength (microvolts/meter) Distance (meters) Above 1GHz 500 3 Average 5000 3 Peak For radiated emissions below 30MHz Test setup:					(,C)				
Above 1GHz 500 3 Average 5000 3 Peak For radiated emissions below 30MHz Distance = 3m Computer Pre - Amplifier Receiver		Frequency		-	Distan	се	Detector		
For radiated emissions below 30MHz Distance = 3m Computer Pre - Amplifier Receiver Ground Plane		Above 1CH:	-	500		,	Average		
Test setup: Distance = 3m		Above IGH	_	5000	3		Peak		
	Test setup:	For radiated emissions below 30MHz Distance = 3m Computer Pre - Amplifier Receiver							





Above 1GHz



Test Procedure:

1. For the radiated emission test below 1GHz: The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level. For the radiated emission test above 1GHz: Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for





Test results:	For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. PASS
	 measurement will be repeated using the quasi-peak detector and reported. 5. Use the following spectrum analyzer settings: Span shall wide enough to fully capture the emission being measured; Set RBW=100 kHz for f < 1 GHz; VBW RBW; Sweep = auto; Detector function = peak; Trace = max hold; Set RBW = 1 MHz, VBW= 3MHz for f □ 1 GHz for peak measurement.
	receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. 3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 4. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission





6.7.2. Test Instruments

	Radiated Em	ission Test Si	te (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Sep. 27, 2018
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ	200061	Sep. 27, 2018
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 27, 2018
Pre-amplifier	HP	8447D	2727A05017	Sep. 27, 2018
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 27, 2018
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 27, 2018
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 27, 2018
Horn Antenna	Schwarzbeck	BBH 9170	582	Sep. 27, 2018
Antenna Mast	Keleto	CC-A-4M	N/A	N/A
Coax cable (9KHz-1GHz)	тст	RE-low-01	N/A	Sep. 27, 2018
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Sep. 27, 2018
Coax cable (9KHz-1GHz)	тст	RE-low-03	N/A	Sep. 27, 2018
Coax cable (9KHz-40GHz)	TCT	RE-high-04	N/A	Sep. 27, 2018
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



6.7.3. Test Data

Please refer to following diagram for individual Below 1GHz

Horizontal:

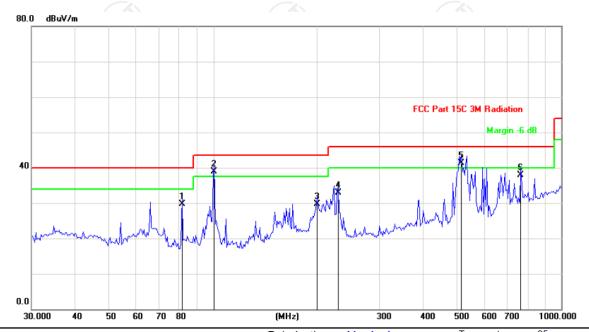


Site Polarization: Horizontal Temperature: 25
Limit: FCC Part 15C 3M Radiation Power: AC 120V/60Hz Humidity: 55 %

	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
_			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
-	1	*	100.4711	50.90	-11.91	38.99	43.50	-4.51	QP			
_	2		202.8745	41.90	-12.62	29.28	43.50	-14.22	QP			
-	3		217.6434	39.40	-12.05	27.35	46.00	-18.65	QP			
-	4		381.8519	33.90	-6.32	27.58	46.00	-18.42	QP			
-	5		498.7302	37.90	-3.13	34.77	46.00	-11.23	QP			
_	6		754.9628	31.80	1.04	32.84	46.00	-13.16	QP			



Vertical:



Site Polarization: Vertical Temperature: 25
Limit: FCC Part 15C 3M Radiation Power: AC 120V/60Hz Humidity: 55 %

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1		81.3739	46.50	-16.80	29.70	40.00	-10.30	QP			
2	*	100.4711	50.90	-11.91	38.99	43.50	-4.51	QP			
3		198.6424	42.60	-12.83	29.77	43.50	-13.73	QP			
4		228.6173	44.50	-11.63	32.87	46.00	-13.13	QP			
5	İ	516.5651	44.10	-2.71	41.39	46.00	-4.61	QP			
6		765.6480	36.60	1.24	37.84	46.00	-8.16	QP			

Note: 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

2. Measurements were conducted in all three channels (high, middle, low) and all modulation(802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)), and the worst case Mode (Middle channel and 802.11b) was submitted only.



Test Result of Radiated Spurious at Band edges Modulation Type: 802.11b

		[, (, i)	Modu	idilori i ypc. oo	2.110		
/							
	Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)
	2310	Н	45.03	-4.20	40.83	74.00	54.00
	2377.38	Н	48.65	-4.10	44.55	74.00	54.00
	2390	Н	53.38	-3.94	49.44	74.00	54.00
	2310	V	44.17	-4.20	39.97	74.00	54.00
	2377.38	V	54.54	-4.10	50.44	74.00	54.00
	2390	V	55.26	-3.94	51.32	74.00	54.00

Modulation Type: 802.11b

		IVIOUU	iation Type. 60	2.110							
	High channel: 2462 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)					
2483.5	Н	51.98	-3.60	48.38	74.00	54.00					
2487.09	Н	47.47	-3.50	43.97	74.00	54.00					
2500	Н	45.12	-3.34	41.78	74.00	54.00					
2483.5	V	54.63	-3.60	51.03	74.00	54.00					
2487.09	V	47.10	-3.50	43.60	74.00	54.00					
2500	V	42.83	-3.34	39.49	74.00	54.00					

Modulation Type: 802.11g

	Low channel: 2412 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)				
2310	Н	43.31	-4.20	39.11	74.00	54.00				
2388.96	Н	50.03	-4.12	45.91	74.00	54.00				
2390	Н	53.15	-3.94	49.21	74.00	54.00				
2310	V	45.87	-4.20	41.67	74.00	54.00				
2388.96	V	49.59	-4.12	45.47	74.00	54.00				
2390	V	54.41	-3.94	50.47	74.00	54.00				

Modulation Type: 802.11g

_	Weddidion Type: 602.11g									
	High channel: 2462 MHz									
	Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)			
	2483.5	Н	52.43	-3.60	48.83	74.00	54.00			
	2487.59	Н	50.52	-3.52	47.00	74.00	54.00			
	2500	Н	46.13	-3.34	42.79	74.00	54.00			
	2483. 5	V	51.04	-3.60	47.44	74.00	54.00			
	2487.59	V	47.36	-3.52	43.84	74.00	54.00			
	2500	V	47.56	-3.34	44.22	74.00	54.00			



Modulation Type: 802.11n(20MHz)

	Low channel: 2412 MHz									
	Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)			
Ī	2310	Н	46.02	-4.20	41.82	74.00	54.00			
	2388.01	Н	53.46	-4.10	49.36	74.00	54.00			
	2390	Н	54.53	-3.94	50.59	74.00	54.00			
Ī	2310	V	48.69	-4.20	44.49	74.00	54.00			
	2388.01	V	54.12	-4.10	50.02	74.00	54.00			
ſ	2390	V	55.35	-3.94	51.41	74.00	54.00			

Modulation Type: 802.11n(20MHz)

	High channel: 2462 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)				
2483.5	Н	52.36	-3.60	48.76	74.00	54.00				
2392.55	Н	51.74	-3.50	48.24	74.00	54.00				
2500	Н	47.48	-3.34	44.14	74.00	54.00				
2483. 5	V	53.06	-3.60	49.46	74.00	54.00				
2392.55	V	50.37	-3.50	46.87	74.00	54.00				
2500	V	48.19	-3.34	44.85	74.00	54.00				

Modulation Type: 802.11n(40MHz)

			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(
	Low channel: 2422 MHz								
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)			
2310	Н	50.38	-4.20	46.18	74.00	54.00			
2387.85	Н	55.70	-4.10	51.60	74.00	54.00			
2390	Н	52.36	-3.94	48.42	74.00	54.00			
2310	V	51.94	-4.20	47.74	74.00	54.00			
2389.98	V	50.17	-4.10	46.07	74.00	54.00			
2390	V	49.68	-3.94	45.74	74.00	54.00			

Modulation Type: 802.11n(40MHz)

		111	1 1 0 1 5 0	N 41 1		
		High	channel: 2452	MHZ		
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)
2483.5	Н	52.65	-3.60	49.05	74.00	54.00
2493.51	Н	54.42	-3.50	50.92	74.00	54.00
2500	Н	49.96	-3.34	46.62	74.00	54.00
2493.51	V	54.62	-3.60	51.02	74.00	54.00
2489.36	V	52.18	-3.46	48.72	74.00	54.00
2500	V	50.67	-3.34	47.33	74.00	54.00

- 1. Peak Final Emission Level=Peak Reading + Correction Factor;
- 2. Correction Factor= Antenna Factor + Cable loss Pre-amplifier





Above 1GHz

Modulation Type: 802.11b

			L	ow channe	l: 2412 MH:	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4824	H	48.35		0.75	49.10		74	54	-4.90
7236	CO H	39.41	1.0	9.87	49.28	(O -)	74	54	-4.72
	H					<u></u>			
4824	V	47.98		0.75	48.73		74	54	-5.27
7236	V	40.67		9.87	50.54		74	54	-3.46
((V	(,G)		(, ((, C, `)		(, (

			M	iddle chann	el: 2437MF	łz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	H	49.25	14	0.97	50.22	() -J-	74	54	-3.78
7311	Н	41.16		9.83	50.99		74	54	-3.01
	Н								
4874	V	49.62		0.97	50.59		74	54	-3.41
7311	V	40.05		9.83	49.88		74	54	-4.12
	V								

			Н	ligh channe	l: 2462 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	Н	49.56		1.18	50.74		74	54	-3.26
7386	Н	39.23		10.07	49.30		74	54	-4.70
	Н	-					-		
4924	V	49.46		1.18	50.64		74	54	-3.36
7386	V	40.81		10.07	50.88		74	54	-3.12
	V								

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.





			L	ow channe	I: 2412 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)		Margin (dB)
4824	Н	49.72		0.75	50.47		74	54	-3.53
7236	Н	40.15		9.87	50.02		74	54	-3.98
	Н		7-					-/-	
	(()		70.			(O)		(20)	
4824	V	47.45	-77	0.75	48.20	\ <u>\</u>	74	54	-5.80
7236	V	40.32		9.87	50.19		74	54	-3.81
	V								

		(.G.)	М	iddle chann	el: 2437MF	·lz	(.C)		
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Н	48.51		0.97	49.48		74	54	-4.52
7311	Ξ	40.74	7	9.83	50.57	-1-	74	54	-3.43
	H)		120	/))		120	
4874	V	47.68		0.97	48.65		74	54	-5.35
7311	V	40.25		9.83	50.08		74	54	-3.92
	V								

			Н	ligh channe	l: 2462 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	Н	47.27		1.18	48.45	- 24	74	54	-5.55
7386	Н	39.86		10.07	49.93	-/-	74	54	-4.07
	Н								
4924	V	46.35		1.18	47.53		74	54	-6.47
7386	V	40.73		10.07	50.80		74	54	-3.20
/ /	V	X22 /			7 /		X-22 /		📉

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.



Modulation Type: 802.11n (HT20)

			L	ow channe		Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4824	Н	49.16		0.75	49.91		74	54	-4.09
7236	Н	40.24		9.87	50.11		74	54	-3.89
	Н		-/-					-/-	
	(()		(20)			(0,0)		(20)	
4824	V	47.07	-32	0.75	47.82		74	54	-6.18
7236	V	40.65		9.87	50.52		74	54	-3.48
	V								

		(.G)	М	iddle chann	el: 2437MH	łz	(.G)		
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Н	47.12		0.97	48.09		74	54	-5.91
7311	Ŧ	40.98		9.83	50.81		74	54	-3.19
	H		140	/		(O-1-		KO	
4874	V	47.03		0.97	48.00		74	54	-6.00
7311	V	40.75		9.83	50.58		74	54	-3.42
	V								(

	High channel: 2462 MHz												
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)				
4924	Н	48.93		1.18	50.11	74	74	54	-3.89				
7386	Н	40.45		10.07	50.52	-/-	74	54	-3.48				
	Н												
4924	V	47.83		1.18	49.01		74	54	-4.99				
7386	V	40.35		10.07	50.42		74	54	-3.58				
7 /	V	X22 /			7 /		X-22 /		📉				

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.



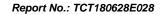
Modulation Type: 802.11n (HT40)

			L	ow channe	I: 2422 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4844	Н	45.24		0.66	45.90		74	54	-8.10
7266	H	38.65	(A)	9.50	48.15		74	54	-5.85
()	C H		[C]		([- C]	
*					×.				
4824	V	44.25		0.66	44.91		74	54	-9.09
7236	V	35.37		9.50	44.87		74	54	-9.13
	V	7					7		

Middle channel: 2437MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Ξ	42.59		0.99	43.58		74	54	-10.42
7311	7	34.86	120	9.85	44.71	(O-1-	74	54	-9.29
	H					<u></u>			
			1			T	T	1	
4874	V	43.38		0.99	44.37		74	54	-9.63
7311	V	37.46		9.85	47.31		74	54	-6.69
) ·	V	J		🔏) `)		(,C)		(

High channel: 2452 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBμV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4904	Н	45.21		1.33	46.54	-/-	74	54	-7.46
7356	H	36.83		10.22	47.05	1	74	54	-6.95
	Н								
4904	V	43.57		1.33	44.90		74	54	-9.10
7356	V	36.69		10.22	46.91		74	54	-7.09
	V								

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. $Margin (dB) = Emission Level (Peak) (dB\mu V/m)-Average limit (dB\mu V/m)$
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.



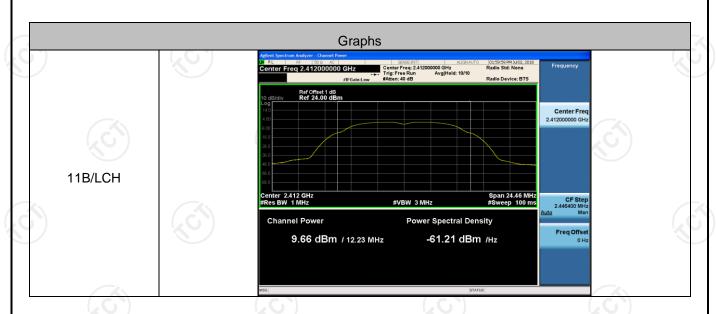


Appendix A: Test Result of Conducted Test Conducted Average Output Power

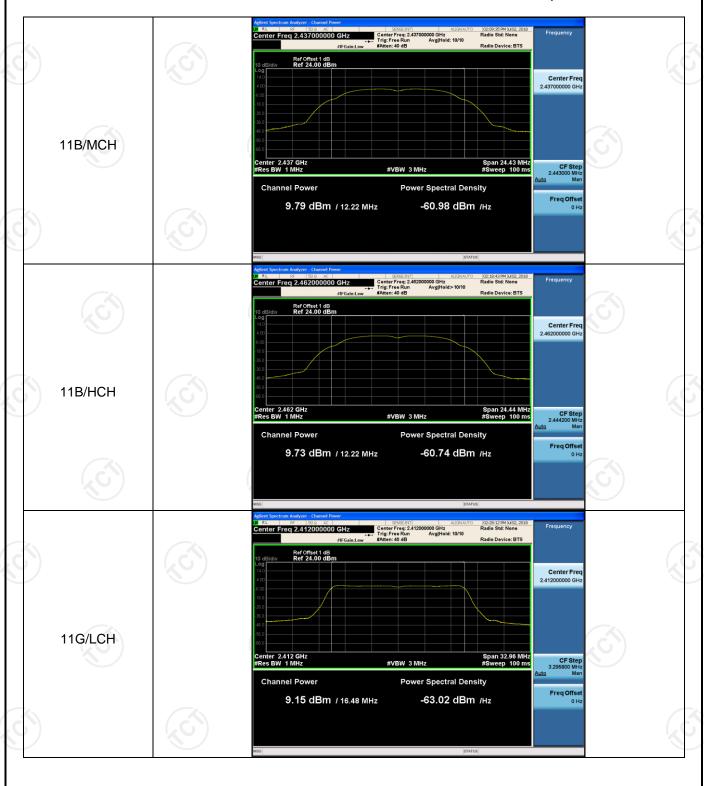
Result Table

Mode	Channel	Meas.Level [dBm]	Verdict
11B	LCH	9.66	PASS
11B	MCH	9.79	PASS
11B	НСН	9.73	PASS
11G	LCH	9.15	PASS
11G	MCH	9.48	PASS
11G	HCH	9.44	PASS
11N20SISO	LCH	8.63	PASS
11N20SISO	MCH	8.98	PASS
11N20SISO	HCH	8.96	PASS
11N40SISO	LCH	8.63	PASS
11N40SISO	MCH	8.92	PASS
11N40SISO HCH		9.27	PASS

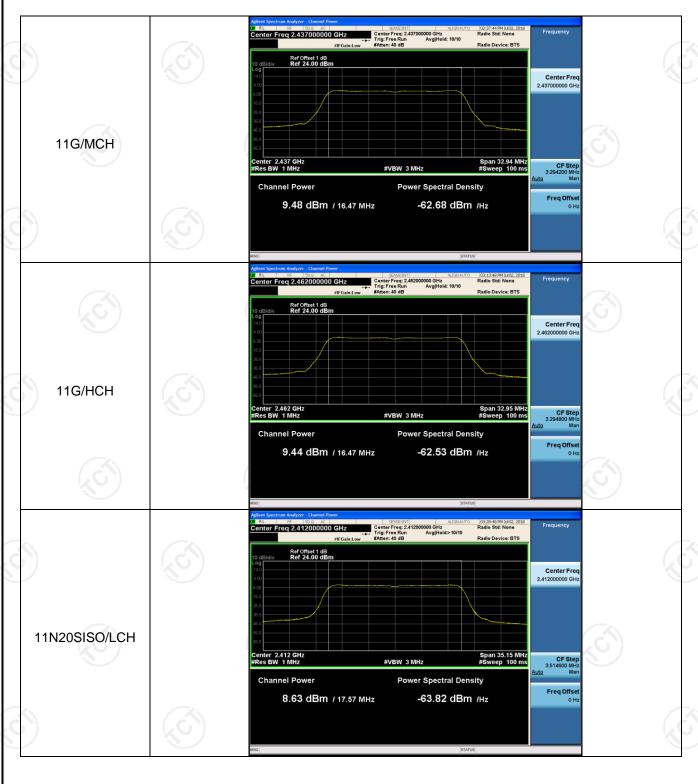
Test Graph



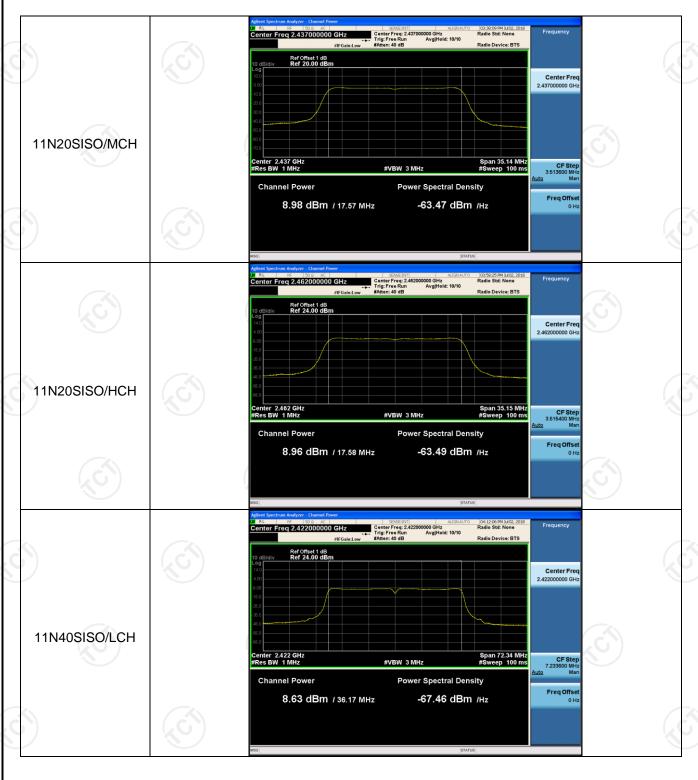




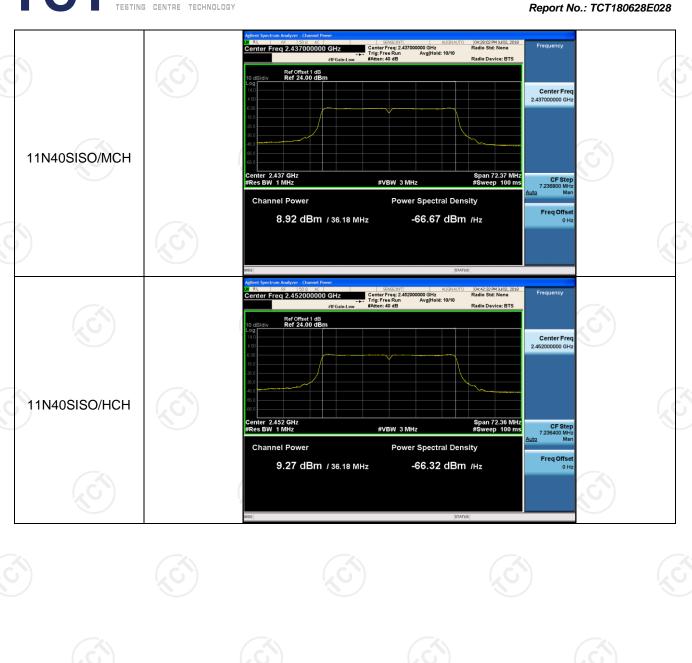
















6dB Occupied Bandwidth

Result Table

Mode	Channel	6dB Bandwidth [MHz]	99% OBW [MHz]	Verdict
11B	LCH	10.07	12.232	PASS
11B	MCH	10.07	12.215	PASS
11B	HCH	10.06	12.221	PASS
11G	LCH	16.35	16.479	PASS
11G	MCH	16.36	16.471	PASS
11G	HCH	16.35	16.474	PASS
11N20SISO	LCH	17.51	17.573	PASS
11N20SISO	MCH	17.30	17.568	PASS
11N20SISO	HCH	17.53	17.577	PASS
11N40SISO	LCH	36.30	36.168	PASS
11N40SISO	MCH	36.32	36.184	PASS
11N40SISO	HCH	36.31	36.182	PASS

Test Graph

