

TEST REPORT

FCC ID: 2ANLZ-FL22015LC

Product: 7inch tablet PC

Model No.: FL 22015LC

Additional Model No.: N/A

Trade Mark: N/A

Report No.: TCT170922E010

Issued Date: Nov. 07, 2017

Issued for:

FITLIGHT Sports Corp.

21 Industry Street, Unit 1 Aurora, Ontario Canada.L4G 1X6

Issued By:

Shenzhen Tongce Testing Lab.

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1. Test Certification

Product:	7inch tablet PC			
Model No.:	FL 22015LC			
Additional Model:	N/A (S)			
Trade Mark:	N/A			
Applicant:	FITLIGHT Sports Corp.			
Address:	21 Industry Street, Unit 1 Aurora, Ontario Canada.L4G 1X6			
Manufacturer:	Shenzhen Fudeng Technology Co., Ltd.			
Address:	5F, Building 2, Chaohuilou Technopark, No. 180, Huating Road, Langkou Community, Dalang Office, Longhua New District, Shenzhen, China			
Date of Test:	Sep. 23, 2017 – Nov. 06, 2017			
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:	Jin Wang	Date:	Nov. 06, 2017
	Jin Wang	_	(0)
Reviewed By:	Londhon	Date:	Nov. 07, 2017
	Joe Zhou		
Approved By:	forus m	Date:	Nov. 07, 2017
	Tomsin	_	



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:	7inch tablet PC
Model No.:	FL 22015LC
Additional Model:	N/A
Trade Mark:	N/A
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:	2.0dBi
Power Supply:	Rechargeable Li-ion Battery DC3.7V
Adapter:	Adapter Information: Model: ANU-050200LB Input: AC 100-240V, 50/60Hz 0.3A Output: 5V, 2000mA



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

-//			7			<u>.</u>		
	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		(C)

Operation Frequency each of channel For 802.11n (HT40)

<u> </u>					()		
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
	(5)	4	2427MHz	7/7	2442MHz	(-)	
		5	2432MHz	8	2447MHz		
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

Operation mode:

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 Mode:	

1. For WIFI function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.

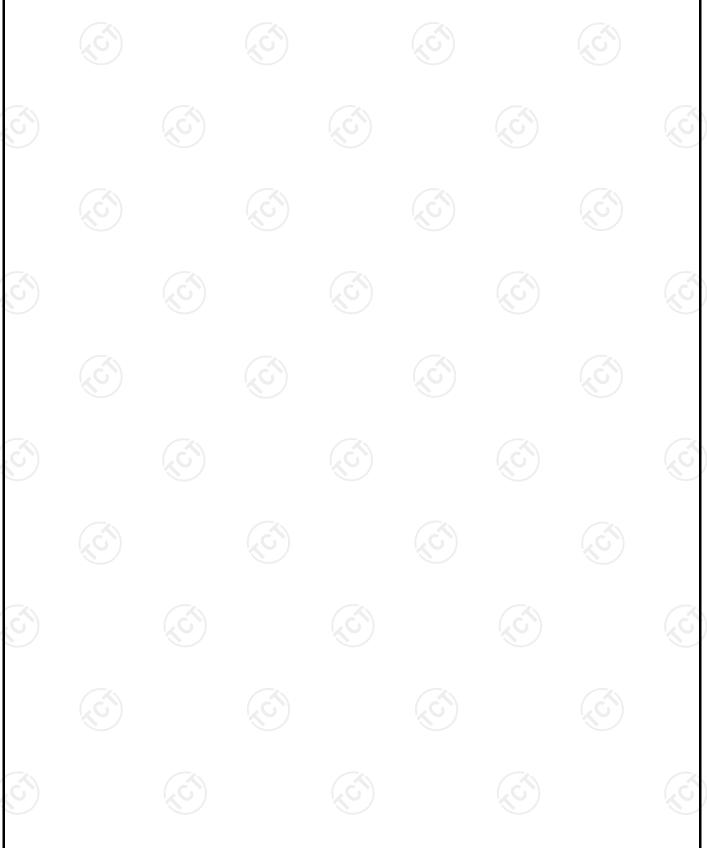
with modulation

Keep the EUT in continuous transmitting

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.



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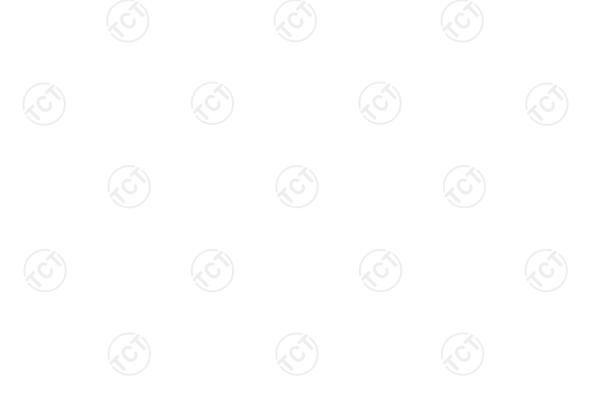
4.2. Description of Support Units

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	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.



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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

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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 an internal antenna which permanently attached, and the best case gain of the antenna is 2.0dBi.



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6.2. Conducted Emission

6.2.1. Test Specification

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Test Requirement:	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				
Limits:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30	Limit (c Quasi-peak 66 to 56* 56 60	Average 56 to 46* 46 50				
Test Setup:	Test table/Insulation plane Remark E.U.T AC powe	E.U.T AC power Test table/Insulation plane Remark: E.U.T Equipment Under Test LISN: Line Impedence Stabilization Network					
Test Mode:	Charging + transmitting	Charging + transmitting with modulation					
Test Procedure:	1. The E.U.T is conneline impedance state provides a 50ohm/s measuring equipme 2. The peripheral device power through a LI coupling impedance refer to the block photographs). 3. Both sides of A.C. conducted interferer emission, the relative the interface cables ANSI C63.10: 2013	bilization network 50uH coupling import. Ces are also connects with 50ohm term diagram of the line are checkence. In order to fine must be change must be change	(L.I.S.N.). This pedance for the ected to the main a 500hm/50uH hination. (Please test setup and d for maximum and the maximum pment and all of ed according to				
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	Jun. 12, 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).

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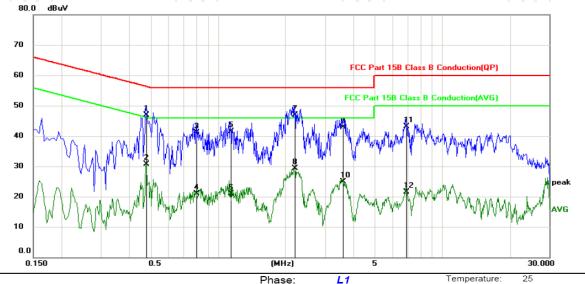




6.2.3. Test data

Please refer to following diagram for individual

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



Limit: FCC Part	15B Class B Conduction(OD)
Lillin. I GG Fant	TOD Class D Collidaction(-xΓ)

Power:	AC 120V/60Hz

Humidity:	55	%

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBu∀	dB	Detector	Comment
1		0.4785	35.63	11.31	46.94	56.37	-9.43	QP	
2		0.4785	19.37	11.31	30.68	46.37	-15.69	AVG	
3		0.7980	29.87	11.22	41.09	56.00	-14.91	QP	
4		0.7980	9.72	11.22	20.94	46.00	-25.06	AVG	
5		1.1400	30.23	11.27	41.50	56.00	-14.50	QP	
6		1.1400	9.73	11.27	21.00	46.00	-25.00	AVG	
7	*	2.1929	35.19	11.62	46.81	56.00	-9.19	QP	
8		2.1929	17.74	11.62	29.36	46.00	-16.64	AVG	
9		3.6105	31.70	11.11	42.81	56.00	-13.19	QP	
10		3.6105	13.82	11.11	24.93	46.00	-21.07	AVG	
11		6.9045	32.11	10.91	43.02	60.00	-16.98	QP	
12		6.9045	10.51	10.91	21.42	50.00	-28.58	AVG	

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 (dBµV) = Limit stated in standard

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

Q.P. =Quasi-Peak

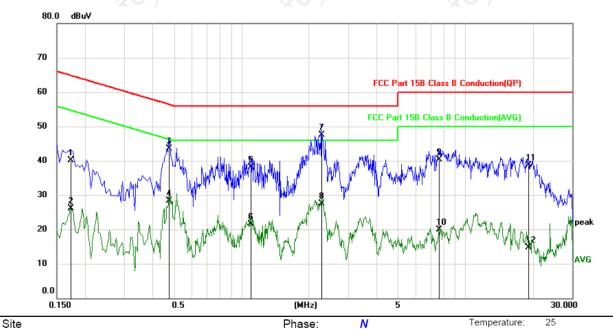
AVG =average

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





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



Limit:	FCC Part	15B Class	s B Conduction(QP)	

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1725	28.68	11.46	40.14	64.84	-24.70	QP	
2		0.1725	14.60	11.46	26.06	54.84	-28.78	AVG	
3		0.4740	32.11	11.31	43.42	56.44	-13.02	QP	
4		0.4740	17.07	11.31	28.38	46.44	-18.06	AVG	
5		1.0995	26.81	11.25	38.06	56.00	-17.94	QP	
6		1.0995	10.34	11.25	21.59	46.00	-24.41	AVG	
7	*	2.2785	35.98	11.59	47.57	56.00	-8.43	QP	
8		2.2785	15.89	11.59	27.48	46.00	-18.52	AVG	
9		7.6110	29.20	11.01	40.21	60.00	-19.79	QP	
10		7.6110	8.86	11.01	19.87	50.00	-30.13	AVG	
11		19.0905	27.88	10.76	38.64	60.00	-21.36	QP	
12		19.0905	4.04	10.76	14.80	50.00	-35.20	AVG	

Power:

AC 120V/60Hz

Humidity:

55 %

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.



6.2.4. Maximum Conducted (Average) Output Power

6.2.5. 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				

6.2.6. Test Instruments

RF Test Room								
Equipment	Manufacturer	Model	Serial Number	Calibration Due				
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).

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6.3. Emission Bandwidth

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)					
Test Method:	KDB 558074					
Limit:	>500kHz					
Test Setup:						
	Spectrum Analyzer EUT					
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					

6.3.2. Test Instruments

RF Test Room											
Equipment	Manufacturer	Model	Serial Number	Calibration Due							
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).

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6.4. Power Spectral Density

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB 558074
Limit:	The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of 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

6.4.2. Test Instruments

RF Test Room											
Equipment	Manufacturer	Model	Serial Number	Calibration Due							
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).



6.5. Conducted Band Edge and Spurious Emission Measurement

6.5.1. 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



6.5.2. Test Instruments

RF Test Room											
Equipment	Manufacturer	Model	Serial Number	Calibration Due							
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).



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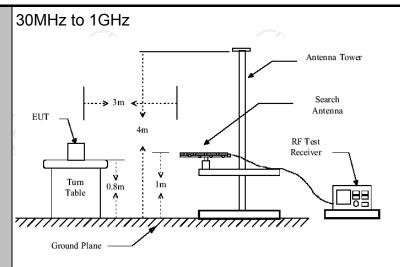
6.6. Radiated Spurious Emission Measurement

6.6.1. Test Specification

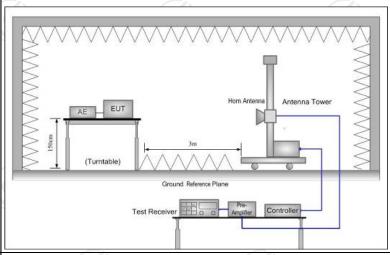
Test Requirement:	FCC Part15 C Section 15.209								
Test Method:	ANSI C63.10: 2013								
Frequency Range:	9 kHz to 25 GHz								
Measurement Distance:	3 m								
Antenna Polarization:	Horizontal & Vertical								
Operation mode:	Transmitting	mode w	ith m	nodulati	ion				
	Frequency 9kHz- 150kHz	Detector Quasi-pea	ak	RBW 200Hz	VBW 1kHz	Quas	Remark si-peak Value		
Receiver Setup:	150kHz- 30MHz	Quasi-pea	ak	9kHz	30kHz	Quas	si-peak Value		
	30MHz-1GHz	Quasi-pea Peak	ak 1	100KHz 1MHz	300KHz 3MHz		si-peak Value eak Value		
	Above 1GHz	Peak		1MHz	10Hz	Ave	erage Value		
	Frequen	ісу		Field Stre	-	_	asurement nce (meters)		
	0.009-0.4			2400/F(k			300		
	0.490-1.7			24000/F(KHz)		30		
	1.705-3 30-88		30 100			30			
	88-216			150		3			
Limit:	216-96		200		3				
	Above 9	60		500		3			
	(,0				(6)				
	II Fredilency		Field Strength (microvolts/meter)		- I Hetan		Detector		
	1011		500		3	-/	Average		
	Above 1GHz	2	5000				Peak		
	For radiated	emissior	ns be	elow 30	MHz	Compute	er		
	Pre -Amplifier						- 		
Test setup:	0.8m	Turn table	nd Plane	1	Receiver				
		5)							







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 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 measurement will be repeated using the quasi-peak detector and reported. 5. Use the following spectrum analyzer settings:
	 (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥RBW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f 1 GHz for peak measurement.
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







6.6.2. Test Instruments

	Radiated Em	ission Test Sit	te (966))		
Name of Equipment	Manutacturer		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	Jun. 07, 2018		
Antenna Mast	Keleto	CC-A-4M	N/A	N/A		
Coax cable (9KHz-1GHz)	TCT	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)	тст	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).



6.6.3. Test Data

Please refer to following diagram for individual Below 1GHz

Horizontal:



Site Polarization: Horizontal Temperature: 25

Limit: FCC Part 15B Class B 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		44.5867	36.30	-6.91	29.39	40.00	-10.61	QP			
2		55.8046	34.70	-7.15	27.55	40.00	-12.45	QP			
3	ļ	82.0706	46.00	-10.41	35.59	40.00	-4.41	QP			
4	*	90.2205	47.00	-7.82	39.18	43.50	-4.32	QP			
5		129.0146	40.20	-10.58	29.62	43.50	-13.88	QP			
6		179.3863	39.30	-10.01	29.29	43.50	-14.21	QP			



Vertical:



Site Polarization: Vertical Temperature: 25

Limit: FCC Part 15B Class B 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	ļ	33.3278	42.20	-7.69	34.51	40.00	-5.49	QP			
2		43.2017	40.10	-6.95	33.15	40.00	-6.85	QP			
3	İ	83.8156	44.30	-9.85	34.45	40.00	-5.55	QP			
4	*	158.6675	49.30	-10.95	38.35	43.50	-5.15	QP			
5		211.5263	44.80	-9.07	35.73	43.50	-7.77	QP			
6		739.6603	34.60	4.85	39.45	46.00	-6.55	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

/	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	37.62	-4.20	33.42	74	54				
	2377.38	Н	36.55	-4.20	32.35	74	54				
	2390	Н	41.32	-3.94	37.38	74	54				
	2310	V	36.10	-4.20	31.90	74	54				
	2377.38	.38 V 39.33		-4.20	35.13	74	54				
	2390	V	40.42	-3.94	36.48	74	54				

Modulation Type: 802.11b

		Moda	idilott Type. oo									
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	36.42	-3.60	32.82	74	54						
2487.09	Н	38.92	-3.50	35.42	74	54						
2500	Н	36.04	-3.34	32.70	74	54						
2483.5	V	37.67	-3.60	34.07	74	54						
2487.09	V	36.58	-3.50	33.08	74	54						
2500	V	35.92	-3.34	32.58	74	54						

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	37.21	-4.20	33.01	74	54
2388.96	Н	37.02	-4.20	32.82	74	54
2390	Н	39.32	-3.94	35.38	74	54
2310	V	35.98	-4.20	31.78	74	54
2388.96	V	40.13	-4.20	35.93	74	54
2390	V	40.55	-3.94	36.61	74	54

Modulation Type: 802.11g

		High	channel: 2462								
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	37.15	-3.60	33.55	74	54					
2487.59	Н	39.12	39.12 -3.50 35.62	35.62	74	54					
2500	Н	36.64	-3.34	33.30	74	54					
2483. 5	V	38.23	-3.60	34.63	74	54					
2487.59	V	36.86	-3.50	33.36	74	54					
2500	V	36.77	-3.34	33.43	74	54					



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)				
2310	Н	46.64	-4.20	42.44	74	54				
2388.01	Н	53.25	-4.20	49.05	74	54				
2390	Н	53.62	-3.94	49.68	74	54				
2310	V	49.72	-4.20	45.52	74	54				
2388.01	V	54.56	-4.20	50.36	74	54				
2390	V	56.27	-3.94	52.33	74	54				

Modulation Type: 802.11n(20MHz)

		High	channel: 2462	MHz		
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV) Correction Feak Final Emission (dB/m) Level		Peak limit (dBµV/m)	AV limit (dBµV/m)	
2483.5	Н	52.62	-3.60	49.02	74	54
2392.55	Н	51.44	-3.50	47.94	74	54
2500	Н	47.18	-3.34	43.84	74	54
2483. 5	V	53.09	-3.60	49.49	74	54
2392.55	V	50.45	-3.50	46.95	74	54
2500	V	48.73	-3.34	45.39	74	54

Modulation Type: 802.11n(40MHz)

					(- /		
)			Low	channel: 2422			
	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	50.64	-4.20	46.44	74	54
	2387.85	Н	55.36	-4.20	51.16	74	54
	2390	Н	53.15	-3.94	49.21	74	54
	2310	V	51.85	-4.20	47.65	74	54
	2389.98	V	50.03	-4.20	45.83	74	54
	2390	V	49.41	-3.94	45.47	74	54

Modulation Type: 802.11n(40MHz)

		High	channel: 2452	MHz		
Frequency (MHz)	Ant. Pol. H/V	H/V (dBµV) Factor Emission Level		Peak limit (dBµV/m)	AV limit (dBµV/m)	
2483.5	Н	53.53	-3.60	49.93	74	54
2493.51	Н	54.98	-3.50	51.48	74	54
2500	Н	50.42	-3.34	47.08	74	54
2493.51	V	53.81	-3.60	50.21	74	54
2489.36	V	52.55	-3.50	49.05	74	54
2500	V	51.99	-3.34	48.65	74	54

- 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	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)	AV limit (dBµV/m)	Margin (dB)
4824	Н	38.42	 ()	0.66	39.08	 -	74	54	-14.92
7236	(OH	35.53	70	9.50	45.03	(O+)	74	54	-8.97
	H					<u></u>			
4824	V	39.12		0.66	39.78		74	54	-14.22
7236	V	36.53		9.50	46.03		74	54	-7.97
(C	V	(, (, ')		(, C	(``ر		(, G `)		(, (

	Middle channel: 2437MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)		Correction			Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
4874	Н	44.36	KO	0.99	45.35	(O)-	74	54	-8.65			
7311	Н	35.59		9.85	45.44		74	54	-8.56			
	Н											
4874	V	43.34		0.99	44.33		74	54	-9.67			
7311	V	36.86		9.85	46.71		74	54	-7.29			
	V											

	High channel: 2462 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)				
4924	Н	38.46		1.33	39.79		74	54	-14.21				
7386	Н	38.02		10.22	48.24		74	54	-5.76				
	Н	-					-						
4924	V	39.72		1.33	41.05		74	54	-12.95				
7386	V	37.49		10.22	47.71		74	54	-6.29				
	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.





Modulation Type: 802.11g	a	802.1	Tvpe:	ulation	Modu
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	Low channel: 2412 MHz											
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	Н	40.36		0.66	41.02		74	54	-12.98			
7236	Η	37.26		9.50	46.76		74	54	-7.24			
	H		7- (1)					7				
	(0)		60,)		(0)		(,0,				
4824	V	36.35	77	0.66	37.01		74	54	-16.99			
7236	V	37.22		9.50	46.72		74	54	-7.28			
	V											

(J.)	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	Н	45.67		0.99	46.66		74	54	-7.34		
7311	Ξ	37.25	<i>+-</i>	9.85	47.10		74	54	-6.9		
	H		120	/		(O-7		TKO			
					,						
4874	>	45.14		0.99	46.13		74	54	-7.87		
7311	V	38.52		9.85	48.37		74	54	-5.63		
	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	H	39.31	4	1.33	40.64		74	54	-13.36		
7386	Н	39.75		10.22	49.97	<i>y</i> -	74	54	-4.03		
	Н										
4924	V	40.12		1.33	41.45		74	54	-12.55		
7386	V	39.36		10.22	49.58		74	54	-4.42		
Y)	V	X2			7 /		<u> </u>				

- 3. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 4. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 5. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 6. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
- 7. 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)

	Low channel: 2412 MHz									
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	Η	41.42		0.66	42.08		74	54	-11.92	
7236	Η	38.35		9.50	47.85		74	54	-6.15	
	H		7					7		
	(0)		70,)		(O)		(,0,		
4824	V	37.61		0.66	38.27		74	54	-15.73	
7236	V	38.49		9.50	47.99		74	54	-6.01	
	V									

(J.)	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	Н	46.19		0.99	47.18		74	54	-6.82		
7311	Ξ	38.48	<i>+-</i>	9.85	48.33		74	54	-5.67		
	H		TY O	/		(O-7		K			
					,						
4874	V	46.50		0.99	47.49		74	54	-6.51		
7311	V	39.75		9.85	49.60		74	54	-4.4		
	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)	AV (dBµV/m)	Peak limit (dBµV/m)		Margin (dB)		
4924	Н	40.36	4	1.33	41.69		74	54	-12.31		
7386	Н	42.23		10.22	52.45	-	74	54	-1.55		
	Н										
4924	V	38.96		1.33	40.29		74	54	-13.71		
7386	V	37.32		10.22	47.54		74	54	-6.46		
//	V	<u> </u>)		<u> </u>				

- 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)

					. 002. : ::: (:						
	Low channel: 2422 MHz										
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)		
4844	Н	46.52		0.66	47.18		74	54	-6.82		
7266	Н	39.48	7- (1)	9.50	48.98		74	54	-5.02		
()	H		 -0		(· C - 1		[- 0]			
7					Υ.						
4824	V	44.64		0.66	45.30		74	54	-8.70		
7236	V	35.21		9.50	44.71		74	54	-9.29		
	V										

	Middle channel: 2437MHz										
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)		
4874	Н	42.06	+-~	0.99	43.05		74	54	-10.95		
7311	KO H	35.34	Ϋ́O.	9.85	45.19	(O+	74	54	-8.81		
	Н					<u> </u>					
4874	V	43.13		0.99	44.12		74	54	-9.88		
7311	V	37.32		9.85	47.17		74	54	-6.83		
(<u>)</u>	V	(<u>,</u> C-')		🔍	` (` ر				(2)		

	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	45.68	*	1.33	47.01	7	74	54	-6.99		
7356	Η	37.74		10.22	47.96	1	74	54	-6.04		
	Н										
4904	V	43.85		1.33	45.18		74	54	-8.82		
7356	V	36.56		10.22	46.78		74	54	-7.22		
	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.





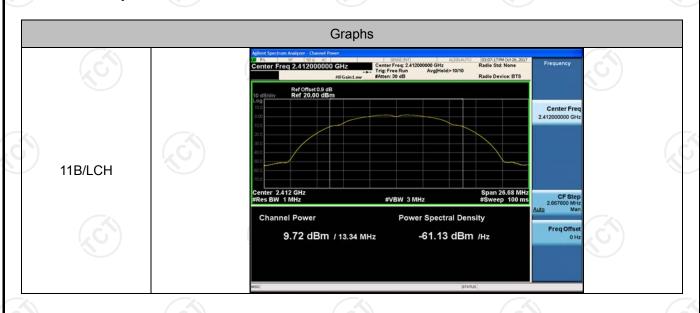


Appendix A: Test Result of Conducted Test Conducted Average Output Power

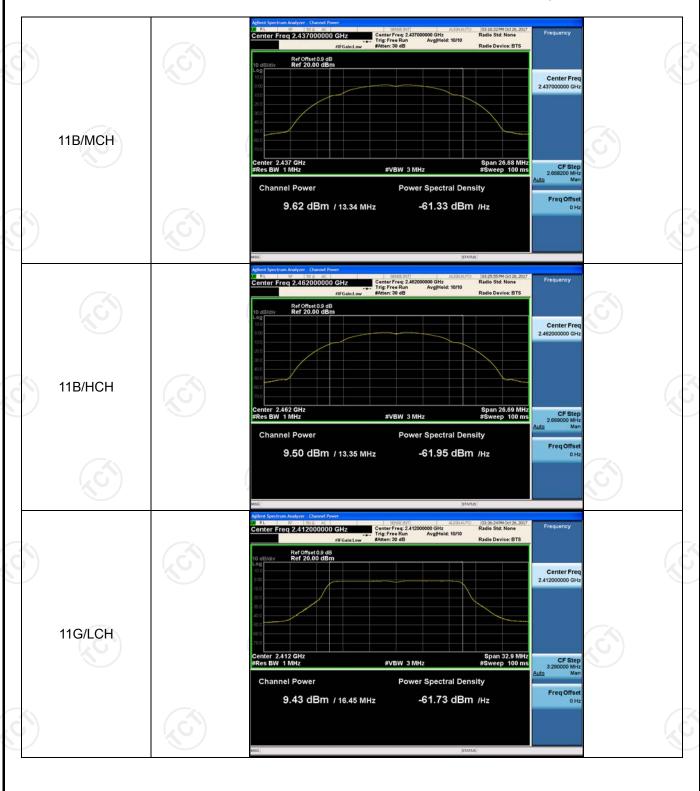
Result Table

Mode	Channel	Meas.Level [dBm]	Verdict
11B	LCH	9.72	PASS
11B	MCH	9.62	PASS
11B	HCH	9.50	PASS
11G	LCH	9.43	PASS
11G	MCH	9.49	PASS
11G	HCH	9.68	PASS
11N20SISO	LCH	9.56	PASS
11N20SISO	MCH	9.66	PASS
11N20SISO	HCH	9.62	PASS
11N40SISO	LCH	9.66	PASS
11N40SISO	MCH	9.68	PASS
11N40SISO	HCH	9.71	PASS

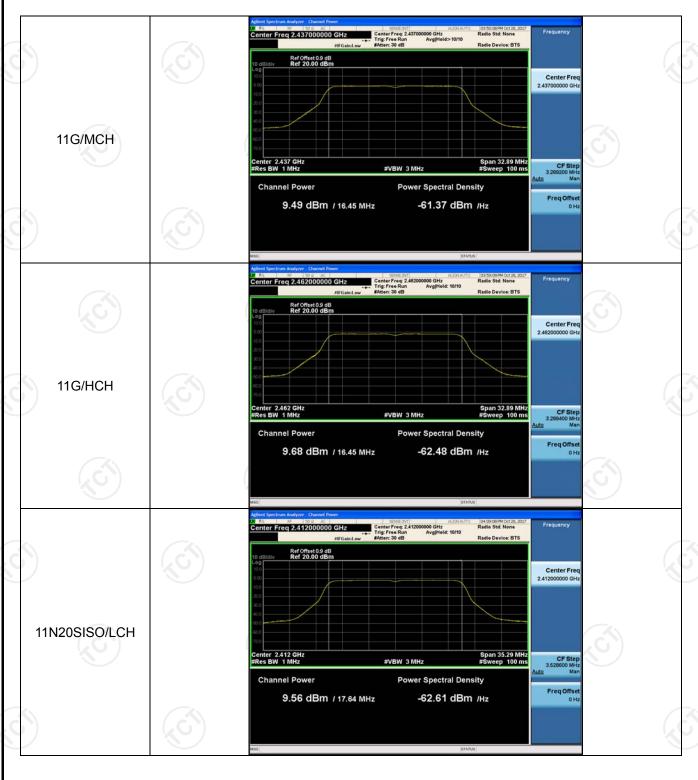
Test Graph



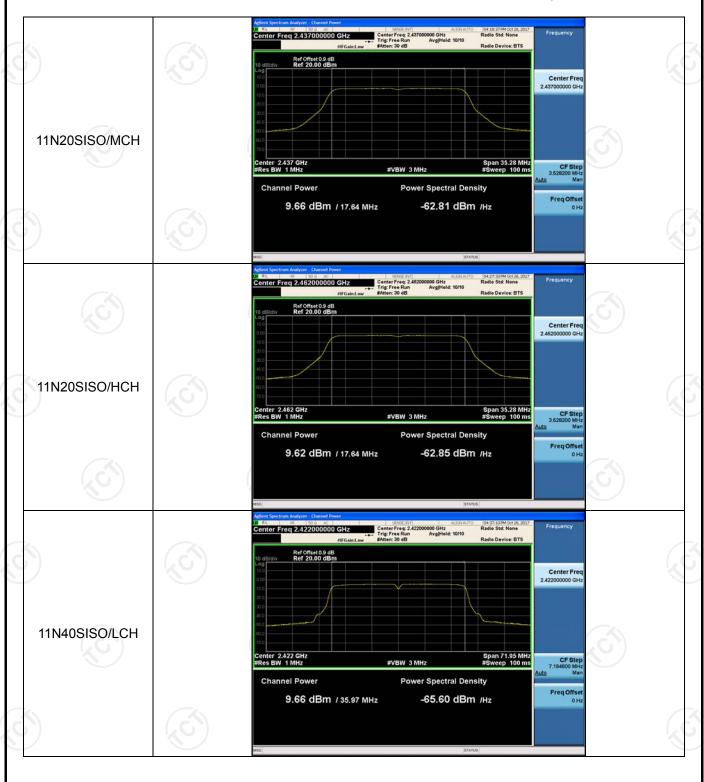




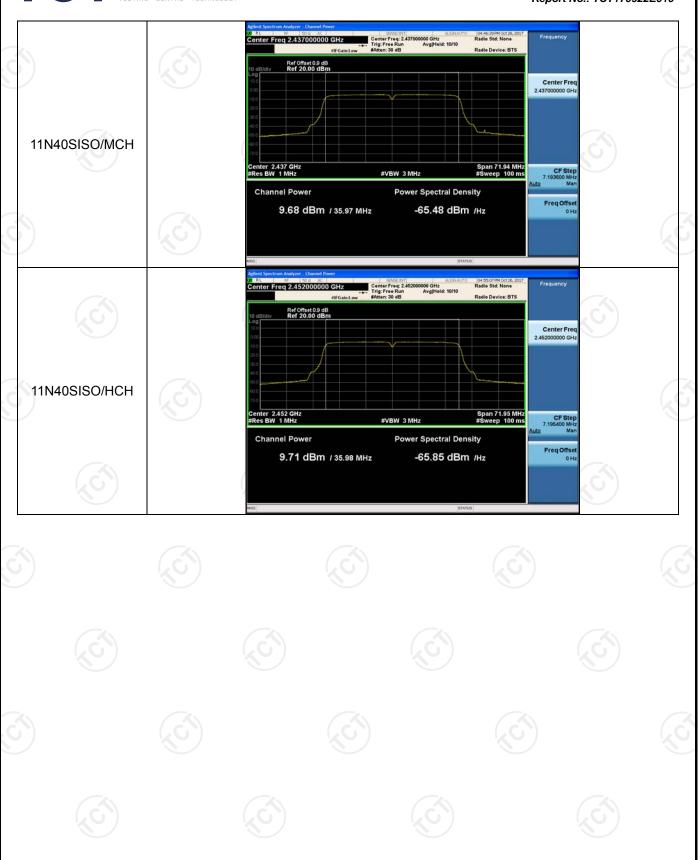
















6dB Occupied Bandwidth

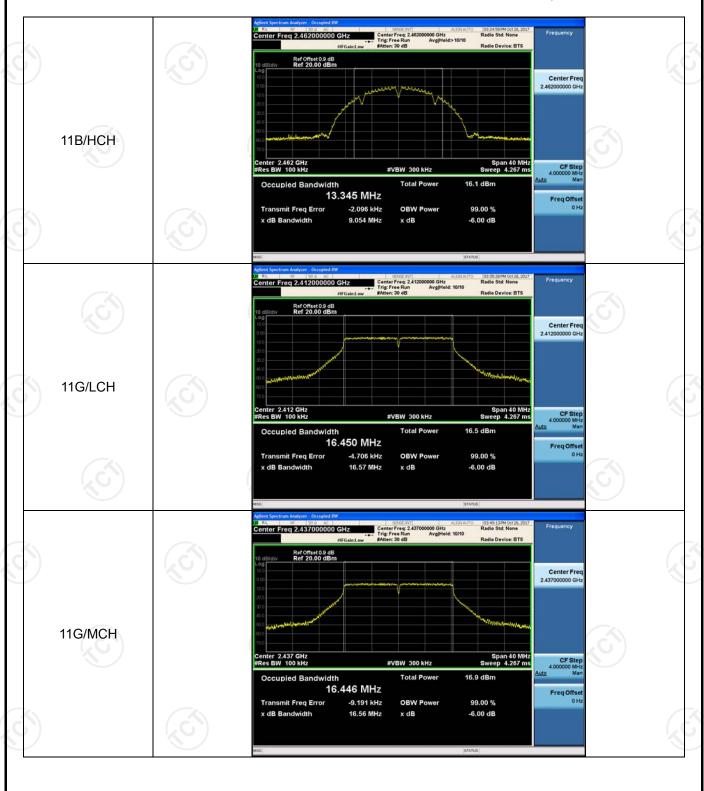
Result Table

Mode	Channel	6dB Bandwidth [MHz]	99% OBW [MHz]	Verdict
11B	LCH	9.057	13.338	PASS
11B	MCH	9.059	13.341	PASS
11B	HCH	9.054	13.345	PASS
11G	LCH	16.57	16.450	PASS
11G	MCH	16.56	16.446	PASS
11G	HCH	16.54	16.447	PASS
11N20SISO	LCH	17.74	17.643	PASS
11N20SISO	MCH	17.74	17.641	PASS
11N20SISO	HCH	17.74	17.641	PASS
11N40SISO	LCH	36.39	35.973	PASS
11N40SISO	MCH	36.40	35.968	PASS
11N40SISO	HCH	36.39	35.977	PASS

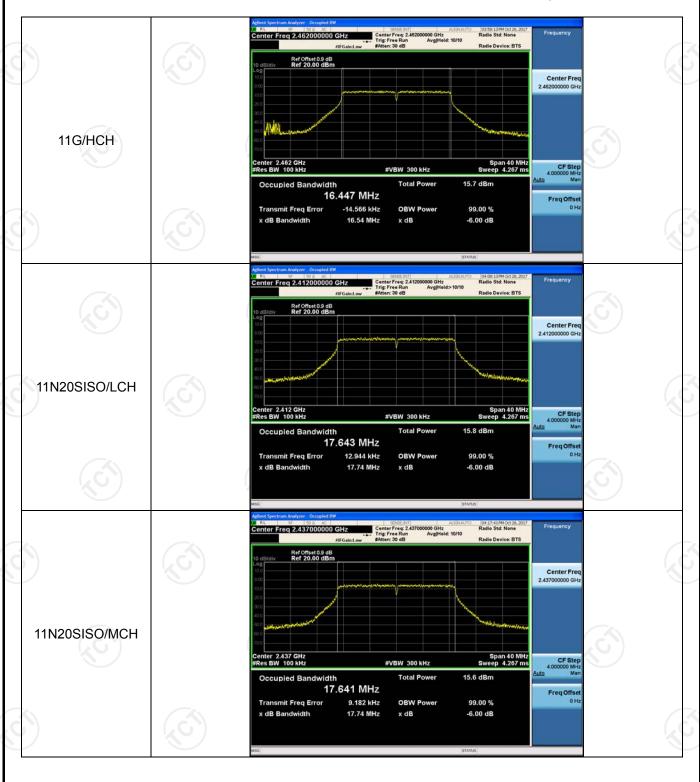
Test Graph



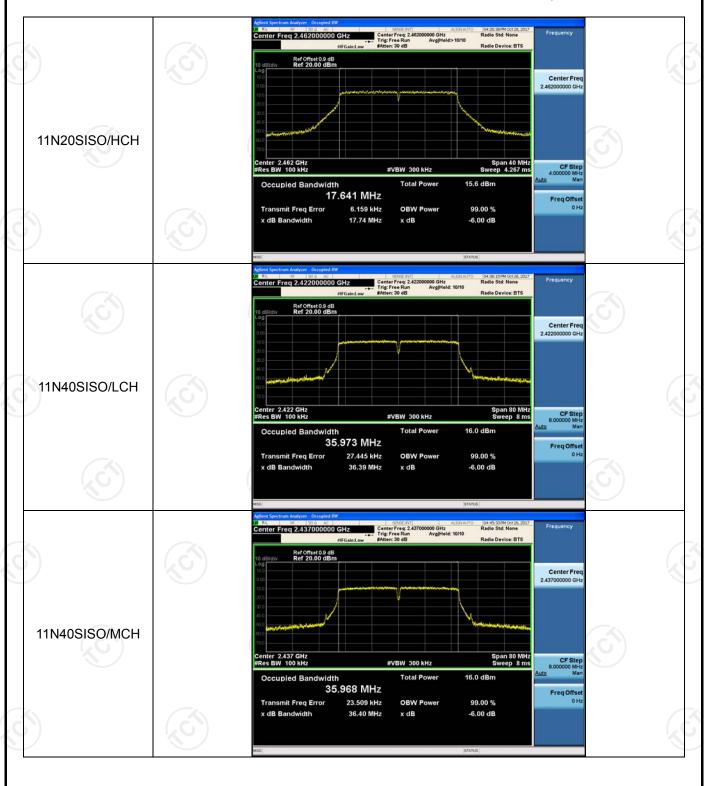




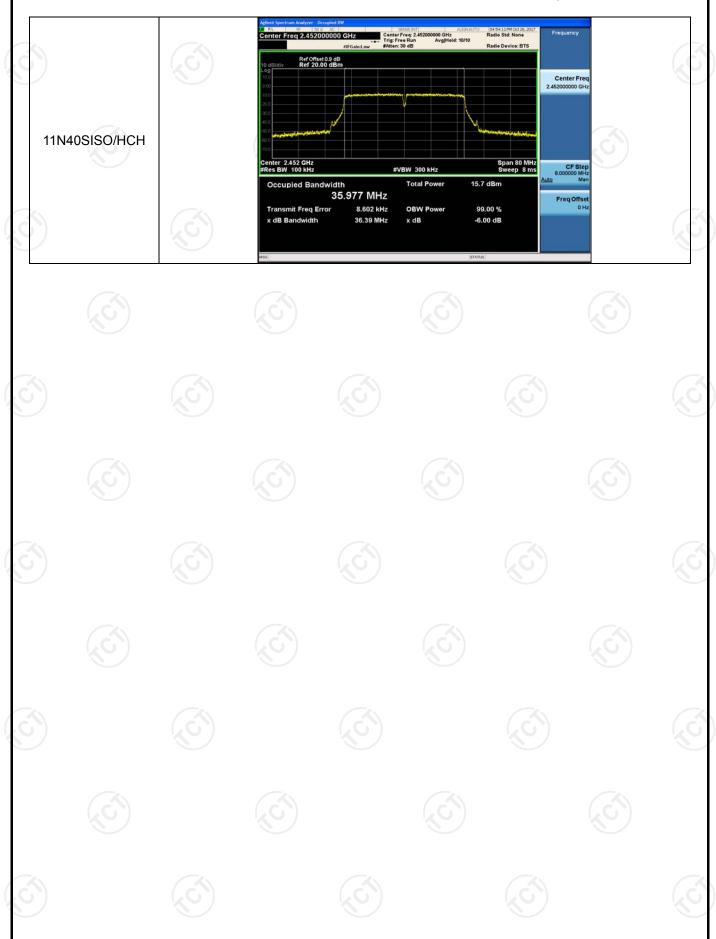














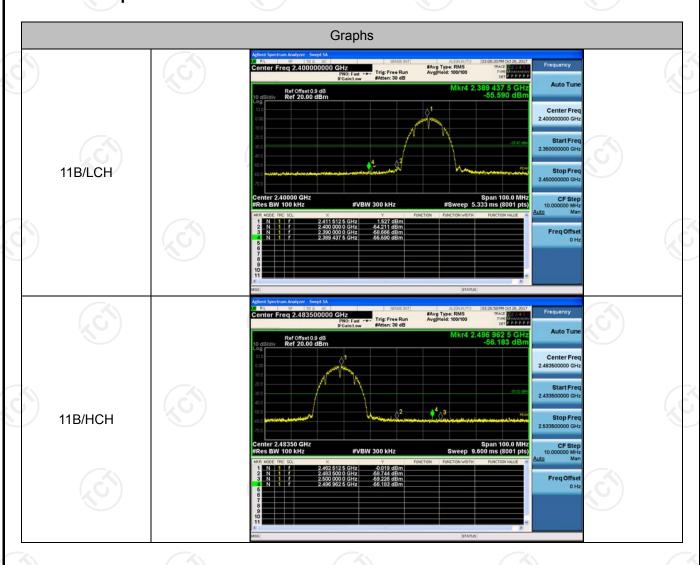


Band-edge for RF Conducted Emissions

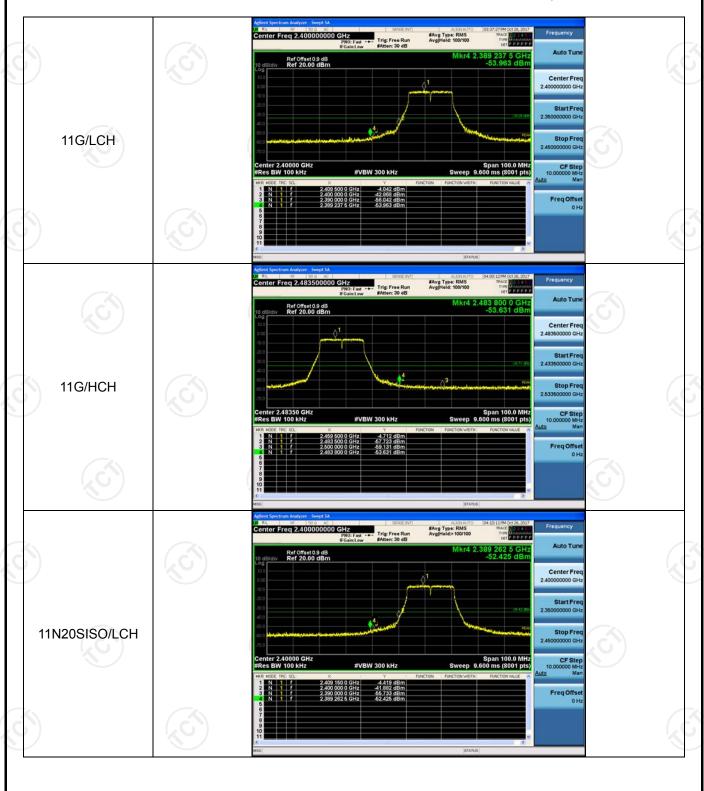
Result Table

Mode	Channel	Carrier Power [dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	1.527	-55.590	-28.47	PASS
11B	HCH	-0.019	-56.183	-30.02	PASS
11G	LCH	-4.042	-53.963	-34.04	PASS
11G	HCH	-4.712	-53.631	-34.71	PASS
11N20SISO	LCH	-4.419	-52.425	-34.42	PASS
11N20SISO	HCH	-4.776	-53.510	-34.78	PASS
11N40SISO	LCH	-7.507	-50.448	-37.51	PASS
11N40SISO	HCH	-7.747	-50.591	-37.75	PASS

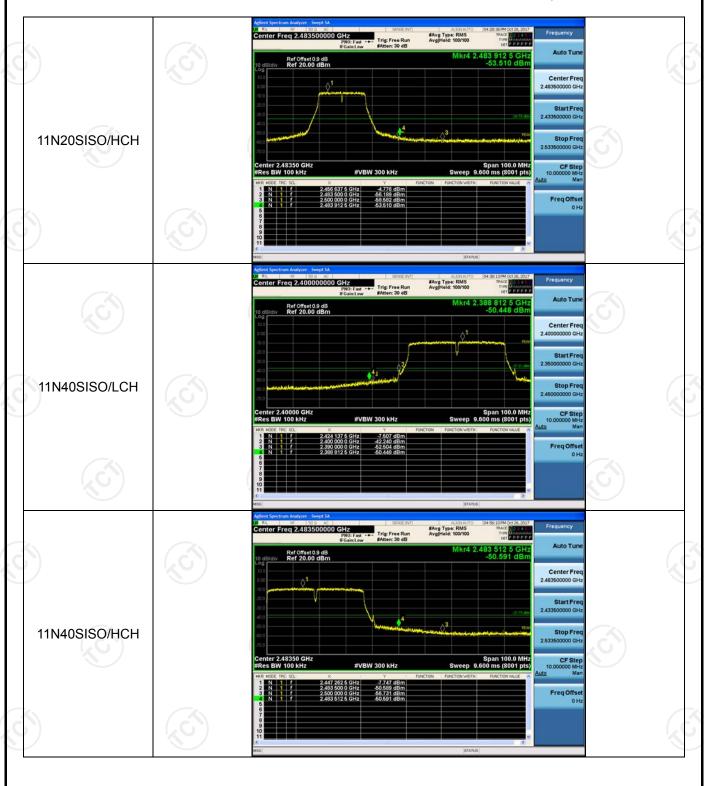
Test Graph















RF Conducted Spurious Emissions

Result Table

Mode	Channel	Pref [dBm]	Puw [dBm]	Verdict
11B	LCH	0.72	<limit< td=""><td>PASS</td></limit<>	PASS
11B	MCH	0.54	<limit< td=""><td>PASS</td></limit<>	PASS
11B	HCH	-0.051	<limit< td=""><td>PASS</td></limit<>	PASS
11G	LCH	-4.092	<limit< td=""><td>PASS</td></limit<>	PASS
11G	MCH	-3.711	<limit< td=""><td>PASS</td></limit<>	PASS
11G	HCH	-5.021	<limit< td=""><td>PASS</td></limit<>	PASS
11N20SISO	LCH	-4.251	<limit< td=""><td>PASS</td></limit<>	PASS
11N20SISO	MCH	-4.539	<limit< td=""><td>PASS</td></limit<>	PASS
11N20SISO	HCH	-4.399	<limit< td=""><td>PASS</td></limit<>	PASS
11N40SISO	LCH	-7.589	<limit< td=""><td>PASS</td></limit<>	PASS
11N40SISO	MCH	-7.36	<limit< td=""><td>PASS</td></limit<>	PASS
11N40SISO	HCH	-7.771	<limit< td=""><td>PASS</td></limit<>	PASS

Test Graph

