



RADIO TEST REPORT

Report No: STS1601038F01

Issued for

Borqs BeiJing Ltd.

Tower A, Building B23, Universal Business Park, No. 10 Jiuxiangiao Road, Chaoyang District Beijing, 100015 China

L A B

Product Name:	Tablet Remote
Brand Name:	VIZIO
Model Name:	XR6M
Series Model:	N/A
FCC ID:	2ABDK-XR6M
Test Standard:	FCC Part 15.247

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TEST RESULT CERTIFICATION

Applicant's name Borqs BeiJing Ltd.

Address Tower A, Building B23, Universal Business Park, No. 10 Jiuxianqiao

Road, Chaoyang District Beijing, 100015 China

Manufacture's Name Borgs BeiJing Ltd.

Road, Chaoyang District Beijing, 100015 China

Product description

Product name...... Tablet Remote

Model and/or type reference .: XR6M

Series Model N/A

Standards..... FCC Part15.247

Test procedure ANSI C63.10-2013

This device described above has been tested by STS, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test.....

Date of Issue 22 Mar. 2016

Test Result Pass

Testing Engineer :

(Jin Ming)

Technical Manager :

(Vita Li)

Authorized Signatory:

(Bovey Yang)



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Revision History

Rev.	Rev. Issue Date Report NO.		Effect Page	Contents
00	00 22 Mar. 2016 STS1601038F01		ALL	Initial Issue





1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 DTS Meas Guidance v03r04

FCC Part15 (15.247) , Subpart C						
Standard Section	Test Item	Judgment	Remark			
15.207	Conducted Emission	PASS				
15.247 (a)(2)	6dB Bandwidth	PASS				
15.247 (b)(3)	Output Power	PASS				
15.247 (c)	Radiated Spurious Emission	PASS				
15.247 (d)	Conducted Spurious & Band Edge Emission	PASS				
15.247 (e)	Power Spectral Density	PASS				
15.205	Radiated Band Edge Emission	PASS				
15.203	Antenna Requirement	PASS				

NOTE:

- (1)" N/A" denotes test is not applicable in this Test Report
- (2) all tests are according to ANSI C63.10-2013.



1.1 TEST FACTORY

Shenzhen STS Test Services Co., Ltd.

Add.: 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road,

Fuyong Street, Bao'an District, Shenzhen, Guangdong, China

CNAS Registration No.: L7649;

FCC Registration No.: 842334; IC Registration No.: 12108A-1

1.2 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	Uncertainty
1	Conducted Emission (9KHz-150KHz)	±2.88dB
2	Conducted Emission (150KHz-30MHz)	±2.67dB
3	RF power,conducted	±0.70dB
4	Spurious emissions,conducted	±1.19dB
5	All emissions,radiated(<30M) (9KHz-30MHz)	±2.45dB
6	All emissions,radiated(<1G) 30MHz-200MHz	±2.83dB
7	All emissions,radiated(<1G) 200MHz-1000MHz	±2.94dB
8	All emissions,radiated(>1G)	±3.03dB
9	Temperature	±0.5°C
10	Humidity	±2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Tablet Remote			
Trade Name	VIZIO			
Model Name	XR6M			
Series Model	N/A			
Model Difference	N/A			
	The EUT is a Table	t Remote		
	Operation Frequency:	802.11b/g/n 20: 2412~2462 MHz		
	Modulation Type:	CCK/BPSK/QPSK/16QAM		
Product Description	Bit Rate of Transmitter	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20MHz):300/150/144.44/130/ 117/115.56/104/86.67/78/52/6.5Mbps		
	Number Of Channel	802.11b/g/n20: 11CH		
	Antenna Designation:	Please see Note 3.		
	Antenna Gain (dBi)	-0.5 dbi		
	Duty Cycle	>98%		
Channel List	Please refer to the I	Note 2.		
Ratings	DC 3.8V from batte	ry		
Adapter	Input: AC100-240V, 450mA, 50/60 Hz Output: DC 3.7V, 2000mA			
Battery	Rated Voltage: 3.8V capacity:2740mAh			
Hardware version number	5.1.1			
Software version number	XR6M10.01			
Connecting I/O Port(s)	Please refer to the User's Manual			

Note:

For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



2

	Channel List for 802.11b/g/n(20MHz)						
						Frequency (MHz)	
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3 Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
Α	VIZIO	XR6M	PIFA Antenna	N/A	-0.5	N/A





2.2 DESCRIPTION OF TEST MODES

Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description	Data Rate
Mode 1	TX IEEE 802.11b CH1	1 Mbps
Mode 2	TX IEEE 802.11b CH6	1 Mbps
Mode 3	TX IEEE 802.11 b CH11	1 Mbps
Mode 4	TX IEEE 802.11g CH1	6 Mbps
Mode 5	TX IEEE 802.11g CH6	6 Mbps
Mode 6	TX IEEE 802.11g CH11	6 Mbps
Mode 7	TX IEEE 802.11n HT20 CH1	MCS 0
Mode 8	TX IEEE 802.11n HT20 CH6	MCS 0
Mode 9	TX IEEE 802.11n HT20 CH11	MCS 0

Note:

- (1) Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates from the power table.
- (2) We have be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation.
- (3) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

AC Conducted Emission

	Test Case
AC Conducted	Mode10: Keeping TX + WLAN Link + USB Cable (Charging from Adapter)
Emission	Mode to: Reeping TX + WEAN Link + USB Cable (Charging from Adapter)

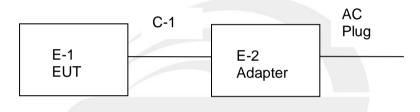


2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test

E-1 EUT

Conducted Emission Test





2.4 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.

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
E-1	Tablet Remote	VIZIO	XR6M	N/A	EUT
E-2	Adapter	N/A	ASUC41a-050120	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
	USB Cable			
C-1	shielded line	NO	100cm	N/A
	(Charging)			

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>『Length』</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Kind of Equipment	•	II VNA NO ISARIAL NO I		Last calibration	Calibrated until
Spectrum Analyzer	Agilent	E4407B	MY50140340	2015.10.25	2016.10.24
Test Receiver	R&S	ESCI	101427	2015.10.25	2016.10.24
Bilog Antenna	TESEQ	CBL6111D	34678	2015.11.25	2016.11.24
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1343	2016.03.06	2017.03.05
Horn Antenna	Schwarzbeck	BBHA 9170	9170-0741	2016.03.06	2017.03.05
50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2015.06.06	2016.06.05
PreAmplifier	Agilent	8449B	60538	2015.10.25	2016.10.24
Loop Antenna	ARA	PLA-1030/B	1029	2015.06.08	2016.06.07
Preamplifier	Agilent	8449B	60538	2015.11.05	2016.11.05
Low frequency cable	EM	R01	N/A	N/A	N/A
High frequency cable	SCHWARZBECK	AK9515H	SN-96286/96287	N/A	N/A

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESPI	102086	2015.11.20	2016.11.19
LISN	R&S	ENV216	101242	2015.10.25	2016.10.24
LISN	EMCO	3810/2NM	000-23625	2015.10.25	2016.10.24
Conduction Cable	EM	C01	N/A	N/A	N/A

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2015.10.25	2016.10.24
Spectrum Analyzer	Agilent	E4407B	MY50140340	2015.10.25	2016.10.24
Signal Analyzer	Agilent	N9020A	MY49100060	2015.11.18	2016.11.17



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

operating frequency band. In case the emission fall within the restricted band specified on Part 15. 207(a) limit in the table below has to be followed.

	Conducted Emission limit (dBuV)		
FREQUENCY (MHz)	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	
5.0 -30.0	60.00	50.00	

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

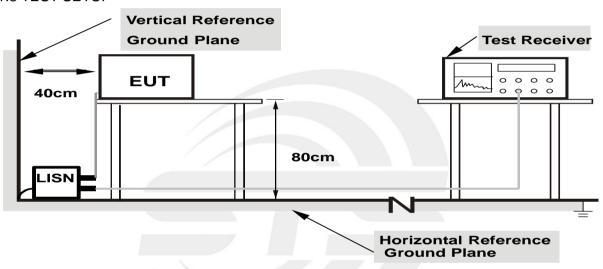
Receiver Parameters	Setting	
Attenuation	10 dB	
Start Frequency	0.15 MHz	
Stop Frequency	30 MHz	
IF Bandwidth	9 kHz	



3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.1.3 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



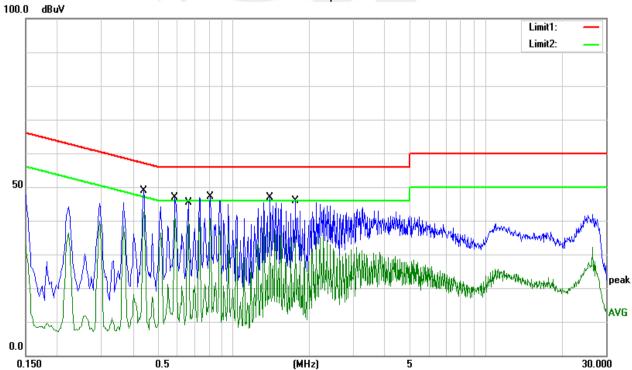
3.1.5 TEST RESULT

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	L
Mode :	Mode 10		

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.4420	38.87	10.07	48.94	57.02	-8.08	QP
0.4420	32.58	10.07	42.65	47.02	-4.37	AVG
0.5860	36.87	9.94	46.81	56.00	-9.19	QP
0.5860	30.95	9.94	40.89	46.00	-5.11	AVG
0.6620	35.50	9.98	45.48	56.00	-10.52	QP
0.6620	30.81	9.98	40.79	46.00	-5.21	AVG
0.8100	37.09	9.96	47.05	56.00	-8.95	QP
0.8100	30.78	9.96	40.74	46.00	-5.26	AVG
1.3980	36.90	9.94	46.84	56.00	-9.16	QP
1.3980	28.11	9.94	38.05	46.00	-7.95	AVG
1.7660	35.92	9.98	45.90	56.00	-10.10	QP
1.7660	26.14	9.98	36.12	46.00	-9.88	AVG

Remark:

1. Factor = Antenna Factor + Cable Loss - Pre-amplifier.





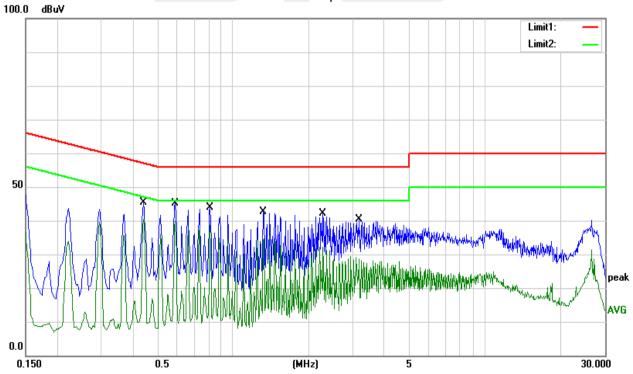
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Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	N
Mode :	Mode 10		

Frequency	Reading	Correct	Result	Limit	Margin	Domork
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.4420	35.41	9.96	45.37	57.02	-11.65	QP
0.4420	30.49	9.96	40.45	47.02	-6.57	AVG
0.5900	35.20	9.94	45.14	56.00	-10.86	QP
0.5900	29.92	9.94	39.86	46.00	-6.14	AVG
0.8100	33.96	10.00	43.96	56.00	-12.04	QP
0.8100	28.51	10.00	38.51	46.00	-7.49	AVG
1.3220	32.68	10.00	42.68	56.00	-13.32	QP
1.3220	25.27	10.00	35.27	46.00	-10.73	AVG
2.2780	32.08	10.00	42.08	56.00	-13.92	QP
2.2780	22.17	10.00	32.17	46.00	-13.83	AVG
3.1580	30.31	10.00	40.31	56.00	-15.69	QP
3.1580	19.27	10.00	29.27	46.00	-16.73	AVG

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on Part 15. 205(a)&209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(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

LIMITS OF RADIATED EMISSION MEASUREMENT (1000MHz-25GHz)

	Class B (dBuV/m) (at 3M)		
FREQUENCY (MHz)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

For Radiated Emission

Spectrum Parameter	Setting		
Attenuation	Auto		
Detector	Peak		
Start Frequency	1000 MHz(Peak/AV)		
Stop Frequency	10 th carrier hamonic(Peak/AV)		
RB / VB (emission in restricted	4 MILE / 4 MILE AV/ 4 MILE /2MILE		
band)	1 MHz / 1 MHz, AV=1 MHz /3MHz		

For Band edge

Spectrum Parameter	Setting		
Detector	Peak		
Start/Stop Frequency	Lower Band Edge: 2300 to 2430 MHz		
Start/Stop Frequency	Upper Band Edge: 2450 to 2500 MHz		
RB / VB (emission in restricted band)	1 MHz / 1 MHz, AV=1 MHz /10 Hz		



Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

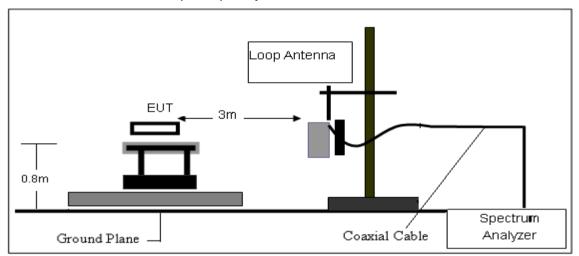
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters (above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarizations of the antenna are set to make the measurement
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Both horizontal and vertical antenna polarities were tested and performed test to three orthogonal axis. The worst case emissions were reported

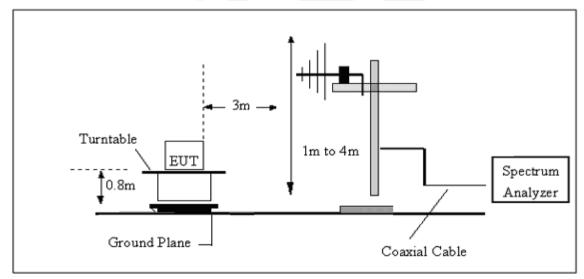


3.2.3 TEST SETUP

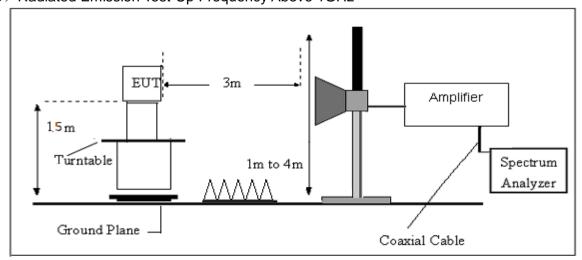
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz





3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.





3.2.5 TEST RESULT

9KHz-30MHz

Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage:	3.8V from Battery
Test Mode:	TX Mode	Polarization:	

Freq.	Reading	Limit	Margin	State	Test
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F	Result
					PASS
					PASS

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



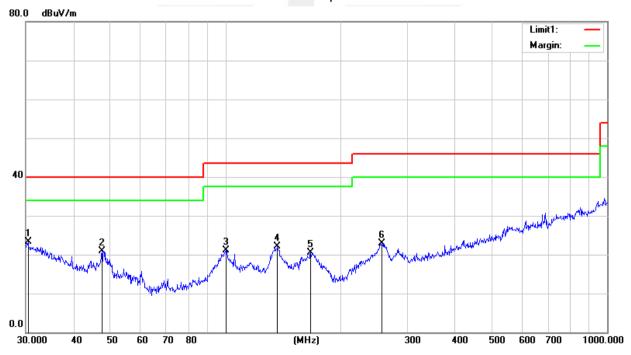
(30MHz - 1000MHz)

Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage:	3.8V from Battery
LIACT IVIDAA .	Mode 1/2/3/4/5/6/7/8/9 (Mode 1-1M worst mode)	Polarization:	Horizontal

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
30.4238	4.79	18.49	23.28	40.00	-16.72	QP
47.4918	11.50	9.43	20.93	40.00	-19.07	QP
100.2286	10.34	10.74	21.08	43.50	-22.42	QP
136.9391	10.20	11.98	22.18	43.50	-21.32	QP
167.2368	9.73	10.81	20.54	43.50	-22.96	QP
257.4222	8.29	14.67	22.96	46.00	-23.04	QP

Remark:

1. Factor = Antenna Factor + Cable Loss - Pre-amplifier.





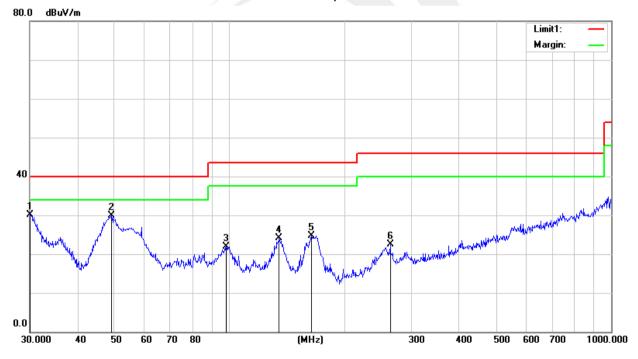
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Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage:	3.8V from Battery
LIAST MINAL .	Mode 1/2/3/4/5/6/7/8/9 (Mode 1-1M worst mode)	Polarization:	Vertical

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
30.1054	11.41	18.65	30.06	40.00	-9.94	QP
49.0145	21.31	8.61	29.92	40.00	-10.08	QP
98.1420	11.48	10.44	21.92	43.50	-21.58	QP
135.0320	11.57	12.54	24.11	43.50	-19.39	QP
164.3301	13.59	11.11	24.70	43.50	-18.80	QP
263.8190	7.53	14.97	22.50	46.00	-23.50	QP

Remark:

1. Factor = Antenna Factor + Cable Loss - Pre-amplifier.





(1000MHz-25GHz)

Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	3.8V from Battery

802.11b Low Channel

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
3265.32	45.26	-9.80	35.46	74.00	-38.54	Pk	Vertical
3265.30	45.23	-9.80	35.43	54.00	-18.57	AV	Vertical
3265.29	45.25	-9.80	35.45	74.00	-38.55	Pk	Horizontal
3265.32	45.24	-9.80	35.44	54.00	-18.56	AV	Horizontal
3334.92	42.99	-9.75	33.24	74.00	-40.76	Pk	Vertical
3335.10	43.01	-9.75	33.26	54.00	-20.74	AV	Vertical
3334.90	43.01	-9.75	33.26	74.00	-40.74	Pk	Horizontal
3335.12	43.02	-9.75	33.27	54.00	-20.73	AV	Horizontal
3349.94	42.77	-9.75	33.02	74.00	-40.98	Pk	Vertical
3350.05	42.77	-9.75	33.02	54.00	-20.98	AV	Vertical
3349.95	42.80	-9.75	33.05	74.00	-40.95	Pk	Horizontal
3350.01	42.79	-9.75	33.04	54.00	-20.96	AV	Horizontal
4000.28	40.14	-6.60	33.54	74.00	-40.46	Pk	Vertical
4000.17	40.15	-6.60	33.55	54.00	-20.45	AV	Vertical
4000.27	40.14	-6.60	33.54	74.00	-40.46	Pk	Horizontal
4000.16	40.13	-6.60	33.53	54.00	-20.47	AV	Horizontal
4824.00	39.56	-3.56	36.00	74.00	-38.00	Pk	Vertical
4824.02	39.55	-3.56	35.99	54.00	-18.01	AV	Vertical
4823.99	39.55	-3.56	35.99	74.00	-38.01	Pk	Horizontal
4824.02	39.57	-3.56	36.01	54.00	-17.99	AV	Horizontal
5360.26	38.47	-2.34	36.13	74.00	-37.87	Pk	Vertical
5360.17	38.49	-2.34	36.15	54.00	-17.85	AV	Vertical
5360.26	38.47	-2.34	36.13	74.00	-37.87	Pk	Horizontal
5360.16	38.47	-2.34	36.13	54.00	-17.87	AV	Horizontal
7236.36	37.92	3.40	41.32	74.00	-32.68	Pk	Vertical
7236.41	37.92	3.40	41.32	54.00	-12.68	AV	Vertical
7236.40	37.94	3.40	41.34	74.00	-32.66	Pk	Horizontal
7236.42	37.95	3.40	41.35	54.00	-12.65	AV	Horizontal
8124.49	36.41	4.80	41.21	74.00	-32.79	Pk	Vertical



8124.50	36.38	4.80	41.18	54.00	-12.82	AV	Vertical
8124.48	36.40	4.80	41.20	74.00	-32.80	Pk	Horizontal
8124.51	36.41	4.80	41.21	54.00	-12.79	AV	Horizontal
9105.18	35.22	5.00	40.22	74.00	-33.78	Pk	Vertical
9105.31	35.19	5.00	40.19	54.00	-13.81	AV	Vertical
9105.20	35.21	5.00	40.21	74.00	-33.79	Pk	Horizontal
9105.27	35.19	5.00	40.19	54.00	-13.81	AV	Horizontal
11036.43	34.20	10.20	44.40	74.00	-29.60	Pk	Vertical
11036.60	34.18	10.20	44.38	54.00	-9.62	AV	Vertical
11036.44	34.18	10.20	44.38	74.00	-29.62	Pk	Horizontal
11036.62	34.17	10.20	44.37	54.00	-9.63	AV	Horizontal
13299.95	33.02	12.20	45.22	74.00	-28.78	Pk	Vertical
13299.92	33.03	12.20	45.23	54.00	-8.77	AV	Vertical
13299.94	33.03	12.20	45.23	74.00	-28.77	Pk	Horizontal
13299.96	33.03	12.20	45.23	54.00	-8.77	AV	Horizontal
14480.29	31.93	13.40	45.33	74.00	-28.67	Pk	Vertical
14480.44	31.96	13.40	45.36	54.00	-8.64	AV	Vertical
14480.28	31.92	13.40	45.32	74.00	-28.68	Pk	Horizontal
14480.44	31.96	13.40	45.36	54.00	-8.64	AV	Horizontal
16000.30	31.09	12.40	43.49	74.00	-30.51	Pk	Vertical
16000.38	31.04	12.40	43.44	54.00	-10.56	AV	Vertical
16000.28	31.07	12.40	43.47	74.00	-30.53	Pk	Horizontal
16000.38	31.05	12.40	43.45	54.00	-10.55	AV	Horizontal
17998.36	28.25	23.10	51.35	74.00	-22.65	Pk	Vertical
17998.25	28.23	23.10	51.33	54.00	-2.67	AV	Vertical
17998.24	28.24	23.10	51.34	74.00	-22.66	Pk	Horizontal
17998.14	28.24	23.10	51.34	54.00	-2.66	AV	Horizontal
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802.11b Mid Channel

(MHz) (dBμV) (dBμV/m) -38.60 Pk Vertical 3265.22 45.17 -9.80 35.38 54.00 -18.62 AV Horizonta 334.86 42.94 -9.75 33.19 74.00 -40.81 Pk Vertical 3335.03 42.94 -9.75 33.21 74.00 -40.79 Pk Horizonta 3349.94 42.70 -9.75 32.95 74.00 -41.05 Pk Vertical 3349.95 42.69 -9.75 32.97 54.00 -21.06 AV Vertical 3349.94 42.72 -	Frequency	Meter	Factor	Emission	Limits	Margin	Detector	Comment
3265.25 45.20 -9.80 35.40 74.00 -38.60 Pk Vertical 3265.22 45.15 -9.80 35.35 54.00 -18.65 AV Vertical 3265.22 45.17 -9.80 35.37 74.00 -38.63 Pk Horizonta 3265.25 45.18 -9.80 35.38 54.00 -18.62 AV Horizonta 3334.86 42.94 -9.75 33.19 74.00 -40.81 Pk Vertical 3335.03 42.96 -9.75 33.21 74.00 -40.79 Pk Horizonta 3335.05 42.96 -9.75 33.21 54.00 -20.79 AV Horizonta 3349.84 42.70 -9.75 32.94 54.00 -21.06 AV Vertical 3349.87 42.71 -9.75 32.97 54.00 -21.03 AV Horizonta 4000.21 40.05 -6.60 33.45 74.00 -40.55 Pk Ver	(MHz)	Reading	(dB)	Level	(dRu\//m)	(dR)	Type	
3265.22 45.15 -9.80 35.35 54.00 -18.65 AV Vertical 3265.22 45.17 -9.80 35.37 74.00 -38.63 Pk Horizonta 3265.25 45.18 -9.80 35.38 54.00 -18.62 AV Horizonta 3334.86 42.94 -9.75 33.19 74.00 -40.81 Pk Vertical 3334.81 42.96 -9.75 33.21 74.00 -40.79 Pk Horizonta 3349.84 42.70 -9.75 32.95 74.00 -41.05 Pk Vertical 3349.96 42.69 -9.75 32.95 74.00 -41.04 Pk Horizonta 3349.97 42.71 -9.75 32.97 54.00 -21.06 AV Vertical 4000.21 40.05 -6.60 33.45 74.00 -41.04 Pk Horizonta 4000.19 40.05 -6.60 33.47 54.00 -20.53 AV Ver	` ,	, , ,	` ,	` ' '	, , ,	` ′		Vertical
3265.22 45.17 -9.80 35.37 74.00 -38.63 Pk Horizonta 3265.25 45.18 -9.80 35.38 54.00 -18.62 AV Horizonta 3334.86 42.94 -9.75 33.19 74.00 -40.81 Pk Vertical 3335.03 42.94 -9.75 33.19 54.00 -20.81 AV Vertical 3334.81 42.96 -9.75 33.21 74.00 -40.79 Pk Horizonta 3349.84 42.70 -9.75 32.95 74.00 -41.05 Pk Vertical 3349.96 42.69 -9.75 32.94 54.00 -21.06 AV Vertical 3349.97 42.71 -9.75 32.97 54.00 -21.03 AV Horizonta 4000.21 40.05 -6.60 33.45 74.00 -40.55 Pk Vertical 4000.19 40.08 -6.60 33.48 74.00 -20.54 AV Hori								
3265.25 45.18 -9.80 35.38 54.00 -18.62 AV Horizonta 3334.86 42.94 -9.75 33.19 74.00 -40.81 Pk Vertical 3335.03 42.94 -9.75 33.19 54.00 -20.81 AV Vertical 3334.81 42.96 -9.75 33.21 74.00 -40.79 Pk Horizonta 3349.84 42.70 -9.75 32.95 74.00 -41.05 Pk Vertical 3349.96 42.69 -9.75 32.94 54.00 -21.06 AV Vertical 3349.97 42.71 -9.75 32.96 74.00 -41.04 Pk Horizonta 4000.21 40.05 -6.60 33.45 74.00 -40.55 Pk Vertical 4000.19 40.08 -6.60 33.47 54.00 -20.53 AV Vertical 4874.93 39.49 -3.56 35.93 74.00 -38.07 Pk Verti								
3334.86 42.94 -9.75 33.19 74.00 -40.81 Pk Vertical 3335.03 42.94 -9.75 33.19 54.00 -20.81 AV Vertical 3334.81 42.96 -9.75 33.21 74.00 -40.79 Pk Horizonta 3349.84 42.70 -9.75 32.95 74.00 -41.05 Pk Vertical 3349.87 42.69 -9.75 32.96 74.00 -41.04 Pk Horizonta 3349.87 42.71 -9.75 32.96 74.00 -41.04 Pk Horizonta 3349.94 42.72 -9.75 32.97 54.00 -21.03 AV Horizonta 4000.21 40.05 -6.60 33.45 74.00 -40.55 Pk Vertical 4000.19 40.08 -6.60 33.48 74.00 -20.53 AV Vertical 4874.93 39.49 -3.56 35.93 74.00 -38.07 Pk Vert								
3335.03 42.94 -9.75 33.19 54.00 -20.81 AV Vertical 3334.81 42.96 -9.75 33.21 74.00 -40.79 Pk Horizonta 3335.05 42.96 -9.75 33.21 54.00 -20.79 AV Horizonta 3349.84 42.70 -9.75 32.95 74.00 -41.05 Pk Vertical 3349.87 42.71 -9.75 32.96 74.00 -41.04 Pk Horizonta 3349.84 42.72 -9.75 32.97 54.00 -21.03 AV Horizonta 4000.21 40.05 -6.60 33.45 74.00 -40.55 Pk Vertical 4000.19 40.08 -6.60 33.48 74.00 -40.52 Pk Horizonta 4874.93 39.49 -3.56 35.93 74.00 -38.07 Pk Vertical 4874.97 39.48 -3.56 35.92 54.00 -18.08 AV Ver								
3334.81 42.96 -9.75 33.21 74.00 -40.79 Pk Horizonta 3335.05 42.96 -9.75 33.21 54.00 -20.79 AV Horizonta 3349.84 42.70 -9.75 32.95 74.00 -41.05 Pk Vertical 3349.96 42.69 -9.75 32.96 74.00 -21.06 AV Vertical 3349.87 42.71 -9.75 32.96 74.00 -41.04 Pk Horizonta 4000.21 40.05 -6.60 33.45 74.00 -40.55 Pk Vertical 4000.19 40.08 -6.60 33.48 74.00 -40.52 Pk Horizonta 4874.93 39.49 -3.56 35.93 74.00 -38.07 Pk Vertical 4874.97 39.48 -3.56 35.93 74.00 -38.06 Pk Horizonta 4874.90 39.50 -3.56 35.91 54.00 -18.09 AV Hor								
3335.05 42.96 -9.75 33.21 54.00 -20.79 AV Horizonta 3349.84 42.70 -9.75 32.95 74.00 -41.05 Pk Vertical 3349.96 42.69 -9.75 32.96 74.00 -41.04 Pk Horizonta 3349.97 42.72 -9.75 32.97 54.00 -21.03 AV Horizonta 4000.21 40.05 -6.60 33.45 74.00 -40.55 Pk Vertical 4000.19 40.08 -6.60 33.47 54.00 -20.53 AV Vertical 4000.19 40.08 -6.60 33.48 74.00 -40.52 Pk Horizonta 4874.93 39.49 -3.56 35.93 74.00 -38.07 Pk Vertical 4874.97 39.48 -3.56 35.92 54.00 -18.08 AV Vertical 4874.90 39.50 -3.56 35.91 54.00 -18.09 AV Hori								
3349.84 42.70 -9.75 32.95 74.00 -41.05 Pk Vertical 3349.96 42.69 -9.75 32.94 54.00 -21.06 AV Vertical 3349.87 42.71 -9.75 32.96 74.00 -41.04 Pk Horizonta 3349.94 42.72 -9.75 32.97 54.00 -21.03 AV Horizonta 4000.21 40.05 -6.60 33.45 74.00 -40.55 Pk Vertical 4000.09 40.07 -6.60 33.47 54.00 -20.53 AV Vertical 4000.19 40.08 -6.60 33.48 74.00 -40.52 Pk Horizonta 4874.93 39.49 -3.56 35.93 74.00 -38.07 Pk Vertical 4874.90 39.50 -3.56 35.91 54.00 -18.08 AV Horizonta 4874.96 39.47 -3.56 35.91 54.00 -18.09 AV Hori								
3349.96 42.69 -9.75 32.94 54.00 -21.06 AV Vertical 3349.87 42.71 -9.75 32.96 74.00 -41.04 Pk Horizonta 3349.94 42.72 -9.75 32.97 54.00 -21.03 AV Horizonta 4000.21 40.05 -6.60 33.45 74.00 -40.55 Pk Vertical 4000.09 40.07 -6.60 33.47 54.00 -20.53 AV Vertical 4000.19 40.08 -6.60 33.48 74.00 -40.52 Pk Horizonta 4000.07 40.06 -6.60 33.46 54.00 -20.54 AV Horizonta 4874.93 39.49 -3.56 35.93 74.00 -38.07 Pk Vertical 4874.90 39.50 -3.56 35.91 54.00 -18.08 AV Vertical 4874.96 39.47 -3.56 35.91 54.00 -18.09 AV Hori								
3349.87 42.71 -9.75 32.96 74.00 -41.04 Pk Horizonta 3349.94 42.72 -9.75 32.97 54.00 -21.03 AV Horizonta 4000.21 40.05 -6.60 33.45 74.00 -40.55 Pk Vertical 4000.09 40.07 -6.60 33.47 54.00 -20.53 AV Vertical 4000.19 40.08 -6.60 33.48 74.00 -40.52 Pk Horizonta 4000.07 40.06 -6.60 33.46 54.00 -20.54 AV Horizonta 4874.93 39.49 -3.56 35.93 74.00 -38.07 Pk Vertical 4874.97 39.48 -3.56 35.92 54.00 -18.08 AV Vertical 4874.90 39.50 -3.56 35.91 54.00 -18.09 AV Horizonta 5360.17 38.38 -2.34 36.04 74.00 -37.96 Pk Ver								
3349.94 42.72 -9.75 32.97 54.00 -21.03 AV Horizonta 4000.21 40.05 -6.60 33.45 74.00 -40.55 Pk Vertical 4000.09 40.07 -6.60 33.47 54.00 -20.53 AV Vertical 4000.19 40.08 -6.60 33.48 74.00 -40.52 Pk Horizonta 4874.93 39.49 -3.56 35.93 74.00 -38.07 Pk Vertical 4874.97 39.48 -3.56 35.92 54.00 -18.08 AV Vertical 4874.90 39.50 -3.56 35.94 74.00 -38.06 Pk Horizonta 4874.96 39.47 -3.56 35.91 54.00 -18.09 AV Horizonta 5360.17 38.38 -2.34 36.04 74.00 -37.96 Pk Vertical 5360.20 38.39 -2.34 36.05 74.00 -37.95 Pk Hori								
4000.21 40.05 -6.60 33.45 74.00 -40.55 Pk Vertical 4000.09 40.07 -6.60 33.47 54.00 -20.53 AV Vertical 4000.19 40.08 -6.60 33.48 74.00 -40.52 Pk Horizonta 4000.07 40.06 -6.60 33.46 54.00 -20.54 AV Horizonta 4874.93 39.49 -3.56 35.93 74.00 -38.07 Pk Vertical 4874.97 39.48 -3.56 35.92 54.00 -18.08 AV Vertical 4874.90 39.50 -3.56 35.91 74.00 -38.06 Pk Horizonta 4874.96 39.47 -3.56 35.91 54.00 -18.09 AV Horizonta 5360.17 38.38 -2.34 36.04 74.00 -37.96 Pk Vertical 5360.20 38.39 -2.34 36.05 74.00 -37.95 Pk Hori								
4000.09 40.07 -6.60 33.47 54.00 -20.53 AV Vertical 4000.19 40.08 -6.60 33.48 74.00 -40.52 Pk Horizonta 4000.07 40.06 -6.60 33.46 54.00 -20.54 AV Horizonta 4874.93 39.49 -3.56 35.93 74.00 -38.07 Pk Vertical 4874.97 39.48 -3.56 35.92 54.00 -18.08 AV Vertical 4874.90 39.50 -3.56 35.94 74.00 -38.06 Pk Horizonta 4874.96 39.47 -3.56 35.91 54.00 -18.09 AV Horizonta 5360.17 38.38 -2.34 36.04 74.00 -37.96 Pk Vertical 5360.20 38.39 -2.34 36.05 74.00 -37.95 Pk Horizonta 7336.29 37.86 3.40 41.26 74.00 -32.74 Pk Vert	3349.94	42.72	-9.75	32.97		-21.03	AV	Horizontal
4000.19 40.08 -6.60 33.48 74.00 -40.52 Pk Horizonta 4000.07 40.06 -6.60 33.46 54.00 -20.54 AV Horizonta 4874.93 39.49 -3.56 35.93 74.00 -38.07 Pk Vertical 4874.97 39.48 -3.56 35.92 54.00 -18.08 AV Vertical 4874.90 39.50 -3.56 35.94 74.00 -38.06 Pk Horizonta 4874.96 39.47 -3.56 35.91 54.00 -18.09 AV Horizonta 5360.17 38.38 -2.34 36.04 74.00 -37.96 Pk Vertical 5360.20 38.39 -2.34 36.05 74.00 -37.95 Pk Horizonta 5360.10 38.40 -2.34 36.06 54.00 -17.94 AV Horizonta 7336.29 37.86 3.40 41.26 74.00 -32.74 Pk Ver	4000.21	40.05	-6.60	33.45	74.00	-40.55	Pk	Vertical
4000.07 40.06 -6.60 33.46 54.00 -20.54 AV Horizonta 4874.93 39.49 -3.56 35.93 74.00 -38.07 Pk Vertical 4874.97 39.48 -3.56 35.92 54.00 -18.08 AV Vertical 4874.90 39.50 -3.56 35.94 74.00 -38.06 Pk Horizonta 4874.96 39.47 -3.56 35.91 54.00 -18.09 AV Horizonta 5360.17 38.38 -2.34 36.04 74.00 -37.96 Pk Vertical 5360.09 38.41 -2.34 36.07 54.00 -17.93 AV Vertical 5360.20 38.39 -2.34 36.05 74.00 -37.95 Pk Horizonta 5360.10 38.40 -2.34 36.06 54.00 -17.94 AV Horizonta 7336.29 37.86 3.40 41.26 74.00 -32.74 Pk Vert	4000.09	40.07	-6.60	33.47	54.00	-20.53	AV	Vertical
4874.93 39.49 -3.56 35.93 74.00 -38.07 Pk Vertical 4874.97 39.48 -3.56 35.92 54.00 -18.08 AV Vertical 4874.90 39.50 -3.56 35.94 74.00 -38.06 Pk Horizonta 4874.96 39.47 -3.56 35.91 54.00 -18.09 AV Horizonta 5360.17 38.38 -2.34 36.04 74.00 -37.96 Pk Vertical 5360.09 38.41 -2.34 36.05 74.00 -37.95 Pk Horizonta 5360.10 38.40 -2.34 36.06 54.00 -17.94 AV Horizonta 7336.29 37.86 3.40 41.26 74.00 -32.74 Pk Vertical 7336.28 37.82 3.40 41.22 54.00 -12.78 AV Vertical 7336.30 37.87 3.40 41.28 74.00 -32.72 Pk Horizon	4000.19	40.08	-6.60	33.48	74.00	-40.52	Pk	Horizontal
4874.97 39.48 -3.56 35.92 54.00 -18.08 AV Vertical 4874.90 39.50 -3.56 35.94 74.00 -38.06 Pk Horizonta 4874.96 39.47 -3.56 35.91 54.00 -18.09 AV Horizonta 5360.17 38.38 -2.34 36.04 74.00 -37.96 Pk Vertical 5360.09 38.41 -2.34 36.07 54.00 -17.93 AV Vertical 5360.20 38.39 -2.34 36.05 74.00 -37.95 Pk Horizonta 5360.10 38.40 -2.34 36.06 54.00 -17.94 AV Horizonta 7336.29 37.86 3.40 41.26 74.00 -32.74 Pk Vertical 7336.28 37.82 3.40 41.22 54.00 -12.78 AV Vertical 8124.42 36.35 4.80 41.12 74.00 -32.85 Pk Vertica	4000.07	40.06	-6.60	33.46	54.00	-20.54	AV	Horizontal
4874.90 39.50 -3.56 35.94 74.00 -38.06 Pk Horizonta 4874.96 39.47 -3.56 35.91 54.00 -18.09 AV Horizonta 5360.17 38.38 -2.34 36.04 74.00 -37.96 Pk Vertical 5360.09 38.41 -2.34 36.07 54.00 -17.93 AV Vertical 5360.20 38.39 -2.34 36.05 74.00 -37.95 Pk Horizonta 5360.10 38.40 -2.34 36.06 54.00 -17.94 AV Horizonta 7336.29 37.86 3.40 41.26 74.00 -32.74 Pk Vertical 7336.28 37.82 3.40 41.22 54.00 -12.78 AV Vertical 7336.30 37.87 3.40 41.27 54.00 -32.72 Pk Horizonta 8124.42 36.35 4.80 41.15 74.00 -32.85 Pk Vertica	4874.93	39.49	-3.56	35.93	74.00	-38.07	Pk	Vertical
4874.96 39.47 -3.56 35.91 54.00 -18.09 AV Horizonta 5360.17 38.38 -2.34 36.04 74.00 -37.96 Pk Vertical 5360.09 38.41 -2.34 36.07 54.00 -17.93 AV Vertical 5360.20 38.39 -2.34 36.05 74.00 -37.95 Pk Horizonta 5360.10 38.40 -2.34 36.06 54.00 -17.94 AV Horizonta 7336.29 37.86 3.40 41.26 74.00 -32.74 Pk Vertical 7336.25 37.82 3.40 41.22 54.00 -12.78 AV Vertical 7336.28 37.88 3.40 41.28 74.00 -32.72 Pk Horizonta 8124.42 36.35 4.80 41.15 74.00 -32.85 Pk Vertical 8124.43 36.31 4.80 41.11 74.00 -32.89 Pk Horizonta	4874.97	39.48	-3.56	35.92	54.00	-18.08	AV	Vertical
5360.17 38.38 -2.34 36.04 74.00 -37.96 Pk Vertical 5360.09 38.41 -2.34 36.07 54.00 -17.93 AV Vertical 5360.20 38.39 -2.34 36.05 74.00 -37.95 Pk Horizonta 5360.10 38.40 -2.34 36.06 54.00 -17.94 AV Horizonta 7336.29 37.86 3.40 41.26 74.00 -32.74 Pk Vertical 7336.25 37.82 3.40 41.22 54.00 -12.78 AV Vertical 7336.28 37.88 3.40 41.28 74.00 -32.72 Pk Horizonta 8124.42 36.35 4.80 41.15 74.00 -32.85 Pk Vertical 8124.43 36.32 4.80 41.12 54.00 -12.88 AV Vertical 8124.43 36.33 4.80 41.11 74.00 -32.89 Pk Horizonta </td <td>4874.90</td> <td>39.50</td> <td>-3.56</td> <td>35.94</td> <td>74.00</td> <td>-38.06</td> <td>Pk</td> <td>Horizontal</td>	4874.90	39.50	-3.56	35.94	74.00	-38.06	Pk	Horizontal
5360.09 38.41 -2.34 36.07 54.00 -17.93 AV Vertical 5360.20 38.39 -2.34 36.05 74.00 -37.95 Pk Horizonta 5360.10 38.40 -2.34 36.06 54.00 -17.94 AV Horizonta 7336.29 37.86 3.40 41.26 74.00 -32.74 Pk Vertical 7336.25 37.82 3.40 41.22 54.00 -12.78 AV Vertical 7336.28 37.88 3.40 41.28 74.00 -32.72 Pk Horizonta 7336.30 37.87 3.40 41.27 54.00 -12.73 AV Horizonta 8124.42 36.35 4.80 41.15 74.00 -32.85 Pk Vertical 8124.41 36.31 4.80 41.11 74.00 -32.89 Pk Horizonta 8124.43 36.33 4.80 41.13 54.00 -12.87 AV Horizonta<	4874.96	39.47	-3.56	35.91	54.00	-18.09	AV	Horizontal
5360.20 38.39 -2.34 36.05 74.00 -37.95 Pk Horizonta 5360.10 38.40 -2.34 36.06 54.00 -17.94 AV Horizonta 7336.29 37.86 3.40 41.26 74.00 -32.74 Pk Vertical 7336.25 37.82 3.40 41.22 54.00 -12.78 AV Vertical 7336.28 37.88 3.40 41.28 74.00 -32.72 Pk Horizonta 7336.30 37.87 3.40 41.27 54.00 -12.73 AV Horizonta 8124.42 36.35 4.80 41.15 74.00 -32.85 Pk Vertical 8124.43 36.31 4.80 41.11 74.00 -32.89 Pk Horizonta 8124.43 36.33 4.80 41.13 54.00 -12.87 AV Horizonta 9105.13 35.15 5.00 40.15 74.00 -33.85 Pk Vertical </td <td>5360.17</td> <td>38.38</td> <td>-2.34</td> <td>36.04</td> <td>74.00</td> <td>-37.96</td> <td>Pk</td> <td>Vertical</td>	5360.17	38.38	-2.34	36.04	74.00	-37.96	Pk	Vertical
5360.10 38.40 -2.34 36.06 54.00 -17.94 AV Horizonta 7336.29 37.86 3.40 41.26 74.00 -32.74 Pk Vertical 7336.25 37.82 3.40 41.22 54.00 -12.78 AV Vertical 7336.28 37.88 3.40 41.28 74.00 -32.72 Pk Horizonta 7336.30 37.87 3.40 41.27 54.00 -12.73 AV Horizonta 8124.42 36.35 4.80 41.15 74.00 -32.85 Pk Vertical 8124.43 36.32 4.80 41.12 54.00 -12.88 AV Vertical 8124.43 36.31 4.80 41.11 74.00 -32.89 Pk Horizonta 8124.43 36.33 4.80 41.13 54.00 -12.87 AV Horizonta 9105.13 35.15 5.00 40.15 74.00 -33.85 Pk Vertical <td>5360.09</td> <td>38.41</td> <td>-2.34</td> <td>36.07</td> <td>54.00</td> <td>-17.93</td> <td>AV</td> <td>Vertical</td>	5360.09	38.41	-2.34	36.07	54.00	-17.93	AV	Vertical
7336.29 37.86 3.40 41.26 74.00 -32.74 Pk Vertical 7336.25 37.82 3.40 41.22 54.00 -12.78 AV Vertical 7336.28 37.88 3.40 41.28 74.00 -32.72 Pk Horizonta 7336.30 37.87 3.40 41.27 54.00 -12.73 AV Horizonta 8124.42 36.35 4.80 41.15 74.00 -32.85 Pk Vertical 8124.43 36.32 4.80 41.12 54.00 -12.88 AV Vertical 8124.41 36.31 4.80 41.11 74.00 -32.89 Pk Horizonta 8124.43 36.33 4.80 41.13 54.00 -12.87 AV Horizonta 9105.13 35.15 5.00 40.15 74.00 -33.85 Pk Vertical	5360.20	38.39	-2.34	36.05	74.00	-37.95	Pk	Horizontal
7336.25 37.82 3.40 41.22 54.00 -12.78 AV Vertical 7336.28 37.88 3.40 41.28 74.00 -32.72 Pk Horizonta 7336.30 37.87 3.40 41.27 54.00 -12.73 AV Horizonta 8124.42 36.35 4.80 41.15 74.00 -32.85 Pk Vertical 8124.43 36.32 4.80 41.12 54.00 -12.88 AV Vertical 8124.41 36.31 4.80 41.11 74.00 -32.89 Pk Horizonta 8124.43 36.33 4.80 41.13 54.00 -12.87 AV Horizonta 9105.13 35.15 5.00 40.15 74.00 -33.85 Pk Vertical	5360.10	38.40	-2.34	36.06	54.00	-17.94	AV	Horizontal
7336.28 37.88 3.40 41.28 74.00 -32.72 Pk Horizonta 7336.30 37.87 3.40 41.27 54.00 -12.73 AV Horizonta 8124.42 36.35 4.80 41.15 74.00 -32.85 Pk Vertical 8124.43 36.32 4.80 41.12 54.00 -12.88 AV Vertical 8124.41 36.31 4.80 41.11 74.00 -32.89 Pk Horizonta 8124.43 36.33 4.80 41.13 54.00 -12.87 AV Horizonta 9105.13 35.15 5.00 40.15 74.00 -33.85 Pk Vertical	7336.29	37.86	3.40	41.26	74.00	-32.74	Pk	Vertical
7336.30 37.87 3.40 41.27 54.00 -12.73 AV Horizonta 8124.42 36.35 4.80 41.15 74.00 -32.85 Pk Vertical 8124.43 36.32 4.80 41.12 54.00 -12.88 AV Vertical 8124.41 36.31 4.80 41.11 74.00 -32.89 Pk Horizonta 8124.43 36.33 4.80 41.13 54.00 -12.87 AV Horizonta 9105.13 35.15 5.00 40.15 74.00 -33.85 Pk Vertical	7336.25	37.82	3.40	41.22	54.00	-12.78	AV	Vertical
8124.42 36.35 4.80 41.15 74.00 -32.85 Pk Vertical 8124.43 36.32 4.80 41.12 54.00 -12.88 AV Vertical 8124.41 36.31 4.80 41.11 74.00 -32.89 Pk Horizonta 8124.43 36.33 4.80 41.13 54.00 -12.87 AV Horizonta 9105.13 35.15 5.00 40.15 74.00 -33.85 Pk Vertical	7336.28	37.88	3.40	41.28	74.00	-32.72	Pk	Horizontal
8124.43 36.32 4.80 41.12 54.00 -12.88 AV Vertical 8124.41 36.31 4.80 41.11 74.00 -32.89 Pk Horizonta 8124.43 36.33 4.80 41.13 54.00 -12.87 AV Horizonta 9105.13 35.15 5.00 40.15 74.00 -33.85 Pk Vertical	7336.30	37.87	3.40	41.27	54.00	-12.73	AV	Horizontal
8124.41 36.31 4.80 41.11 74.00 -32.89 Pk Horizonta 8124.43 36.33 4.80 41.13 54.00 -12.87 AV Horizonta 9105.13 35.15 5.00 40.15 74.00 -33.85 Pk Vertical	8124.42	36.35	4.80	41.15	74.00	-32.85	Pk	Vertical
8124.43 36.33 4.80 41.13 54.00 -12.87 AV Horizonta 9105.13 35.15 5.00 40.15 74.00 -33.85 Pk Vertical	8124.43	36.32	4.80	41.12	54.00	-12.88	AV	Vertical
9105.13 35.15 5.00 40.15 74.00 -33.85 Pk Vertical	8124.41	36.31	4.80	41.11	74.00	-32.89	Pk	Horizontal
	8124.43	36.33	4.80	41.13	54.00	-12.87	AV	Horizontal
9105.22 35.13 5.00 40.13 54.00 -13.87 AV Vertical	9105.13	35.15	5.00	40.15	74.00	-33.85	Pk	Vertical
	9105.22	35.13	5.00	40.13	54.00	-13.87	AV	Vertical



9105.11	35.16	5.00	40.16	74.00	-33.84	Pk	Horizontal
9105.20	35.12	5.00	40.12	54.00	-13.88	AV	Horizontal
11036.36	34.11	10.20	44.31	74.00	-29.69	Pk	Vertical
11036.54	34.10	10.20	44.30	54.00	-9.70	AV	Vertical
11036.39	34.11	10.20	44.31	74.00	-29.69	Pk	Horizontal
11036.53	34.10	10.20	44.30	54.00	-9.70	AV	Horizontal
13299.89	32.97	12.20	45.17	74.00	-28.83	Pk	Vertical
13299.85	32.98	12.20	45.18	54.00	-8.82	AV	Vertical
13299.85	32.94	12.20	45.14	74.00	-28.86	Pk	Horizontal
13299.90	32.97	12.20	45.17	54.00	-8.83	AV	Horizontal
14480.24	31.85	13.40	45.25	74.00	-28.75	Pk	Vertical
14480.37	31.86	13.40	45.26	54.00	-8.74	AV	Vertical
14480.21	31.85	13.40	45.25	74.00	-28.75	Pk	Horizontal
14480.37	31.86	13.40	45.26	54.00	-8.74	AV	Horizontal
16000.22	31.04	12.40	43.44	74.00	-30.56	Pk	Vertical
16000.30	30.99	12.40	43.39	54.00	-10.61	AV	Vertical
16000.19	30.97	12.40	43.37	74.00	-30.63	Pk	Horizontal
16000.30	30.97	12.40	43.37	54.00	-10.63	AV	Horizontal
17998.36	28.15	23.10	51.25	74.00	-22.75	Pk	Vertical
17998.25	28.14	23.10	51.24	54.00	-2.76	AV	Vertical
17998.24	28.14	23.10	51.24	74.00	-22.76	Pk	Horizontal
17998.14	28.17	23.10	51.27	54.00	-2.73	AV	Horizontal



802.11b High Channel

Frequency	Meter Reading	Factor	Emission	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dD)	Level	(dDu)//m)	(AD)	Tyroo	
,	` ' '	(dB) -9.80	(dBµV/m)	(dBµV/m) 74.00	(dB) -38.63	Type	Vartical
3265.24	45.17		35.37			Pk	Vertical
3265.23	45.18	-9.80	35.38	54.00	-18.62	AV	Vertical
3265.23	45.16	-9.80	35.36	74.00	-38.64	Pk	Horizontal
3265.27	45.18	-9.80	35.38	54.00	-18.62	AV	Horizontal
3334.83	42.93	-9.75	33.18	74.00	-40.82	Pk	Vertical
3335.04	42.91	-9.75	33.16	54.00	-20.84	AV	Vertical
3334.81	42.92	-9.75	33.17	74.00	-40.83	Pk	Horizontal
3335.04	42.94	-9.75	33.19	54.00	-20.81	AV	Horizontal
3349.85	42.71	-9.75	32.96	74.00	-41.04	Pk	Vertical
3349.97	42.69	-9.75	32.94	54.00	-21.06	AV	Vertical
3349.85	42.75	-9.75	33.00	74.00	-41.00	Pk	Horizontal
3349.95	42.71	-9.75	32.96	54.00	-21.04	AV	Horizontal
4000.22	40.05	-6.60	33.45	74.00	-40.55	Pk	Vertical
4000.09	40.10	-6.60	33.50	54.00	-20.50	AV	Vertical
4000.20	40.08	-6.60	33.48	74.00	-40.52	Pk	Horizontal
4000.06	40.05	-6.60	33.45	54.00	-20.55	AV	Horizontal
4924.93	39.50	-3.56	35.94	74.00	-38.06	Pk	Vertical
4924.95	39.50	-3.56	35.94	54.00	-18.06	AV	Vertical
4924.93	39.50	-3.56	35.94	74.00	-38.06	Pk	Horizontal
4924.96	39.49	-3.56	35.93	54.00	-18.07	AV	Horizontal
5360.19	38.42	-2.34	36.08	74.00	-37.92	Pk	Vertical
5360.11	38.40	-2.34	36.06	54.00	-17.94	AV	Vertical
5360.21	38.41	-2.34	36.07	74.00	-37.93	Pk	Horizontal
5360.09	38.42	-2.34	36.08	54.00	-17.92	AV	Horizontal
7386.28	37.87	3.40	41.27	74.00	-32.73	Pk	Vertical
7386.26	37.86	3.40	41.26	54.00	-12.74	AV	Vertical
7386.32	37.87	3.40	41.27	74.00	-32.73	Pk	Horizontal
7386.29	37.85	3.40	41.25	54.00	-12.75	AV	Horizontal
8124.42	36.33	4.80	41.13	74.00	-32.87	Pk	Vertical
8124.42	36.29	4.80	41.09	54.00	-12.91	AV	Vertical
8124.43	36.32	4.80	41.12	74.00	-32.88	Pk	Horizontal
8124.44	36.35	4.80	41.15	54.00	-12.85	AV	Horizontal
9105.10	35.16	5.00	40.16	74.00	-33.84	Pk	Vertical
9105.24	35.09	5.00	40.09	54.00	-13.91	AV	Vertical



9105.11	35.16	5.00	40.16	74.00	-33.84	Pk	Horizontal
9105.18	35.13	5.00	40.13	54.00	-13.87	AV	Horizontal
11036.33	34.11	10.20	44.31	74.00	-29.69	Pk	Vertical
11036.53	34.12	10.20	44.32	54.00	-9.68	AV	Vertical
11036.37	34.10	10.20	44.30	74.00	-29.70	Pk	Horizontal
11036.52	34.08	10.20	44.28	54.00	-9.72	AV	Horizontal
13299.86	32.95	12.20	45.15	74.00	-28.85	Pk	Vertical
13299.84	32.97	12.20	45.17	54.00	-8.83	AV	Vertical
13299.86	32.97	12.20	45.17	74.00	-28.83	Pk	Horizontal
13299.90	32.97	12.20	45.17	54.00	-8.83	AV	Horizontal
14480.22	31.86	13.40	45.26	74.00	-28.74	Pk	Vertical
14480.36	31.87	13.40	45.27	54.00	-8.73	AV	Vertical
14480.18	31.86	13.40	45.26	74.00	-28.74	Pk	Horizontal
14480.37	31.90	13.40	45.30	54.00	-8.70	AV	Horizontal
16000.21	31.02	12.40	43.42	74.00	-30.58	Pk	Vertical
16000.29	30.95	12.40	43.35	54.00	-10.65	AV	Vertical
16000.21	31.01	12.40	43.41	74.00	-30.59	Pk	Horizontal
16000.30	30.95	12.40	43.35	54.00	-10.65	AV	Horizontal
17998.36	28.17	23.10	51.27	74.00	-22.73	Pk	Vertical
17998.25	28.16	23.10	51.26	54.00	-2.74	AV	Vertical
17998.24	28.17	23.10	51.27	74.00	-22.73	Pk	Horizontal
17998.14	28.15	23.10	51.25	54.00	-2.75	AV	Horizontal

Remark:

- 1. Factor = Antenna Factor + Cable Loss Pre-amplifier.
- Scan with 802.11b, 802.11g, 802.11n (HT-20), the worst case is 802.11b.
 Emission Level = Meter Reading + Factor
 Margin = Limit Emission Leve
- 3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.





3.2.6 TEST RESULTS (Band edge)

Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	3.8V from Battery

Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBµV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment		
	802.11 b								
2400.0	69.22	-12.99	56.23	74	-17.77	PK	Vertical		
2400.0	55.04	-12.99	42.05	54	-11.95	AV	Vertical		
2400.0	70.28	-12.99	57.29	74	-16.71	PK	Horizontal		
2400.0	54.20	-12.99	41.21	54	-12.79	AV	Horizontal		
2483.5	71.09	-12.78	58.31	74	-15.69	PK	Vertical		
2483.5	54.11	-12.78	41.33	54	-12.67	AV	Vertical		
2483.5	71.18	-12.78	58.40	74	-15.60	PK	Horizontal		
2483.5	54.12	-12.78	41.34	54	-12.66	AV	Horizontal		
			802.11	l g					
2400.0	69.04	-12.99	56.05	74	-17.95	PK	Vertical		
2400.0	55.18	-12.99	42.19	54	-11.81	AV	Vertical		
2400.0	70.18	-12.99	57.19	74	-16.81	PK	Horizontal		
2400.0	54.04	-12.99	41.05	54	-12.95	AV	Horizontal		
2483.5	71.13	-12.78	58.35	74	-15.65	PK	Vertical		
2483.5	54.30	-12.78	41.52	54	-12.48	AV	Vertical		
2483.5	71.09	-12.78	58.31	74	-15.69	PK	Horizontal		
2483.5	54.23	-12.78	41.45	54	-12.55	AV	Horizontal		



	802.11 n20							
2400.0	69.18	-12.99	56.19	74	-17.81	PK	Vertical	
2400.0	55.13	-12.99	42.14	54	-11.86	AV	Vertical	
2400.0	70.12	-12.99	57.13	74	-16.87	PK	Horizontal	
2400.0	54.15	-12.99	41.16	54	-12.84	AV	Horizontal	
2483.5	71.25	-12.78	58.47	74	-15.53	PK	Vertical	
2483.5	54.10	-12.78	41.32	54	-12.68	AV	Vertical	
2483.5	71.11	-12.78	58.33	74	-15.67	PK	Horizontal	
2483.5	54.10	-12.78	41.32	54	-12.68	AV	Horizontal	

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Low measurement frequencies is range from 2310 to 2400 MHz, high measurement frequencies is range from 2483.5 to 2500 MHz.

Only show the worst point data of the emissions in the frequency 2310-2400 MHz and 2483.5-2500 MHz.



4. CONDUCTED SPURIOUS & BAND EDGE EMISSION

4.1 APPLIED PROCEDURES / LIMIT

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

4.2 TEST PROCEDURE

Spectrum Parameter	Setting		
Detector	Peak		
Start/Stop Frequency	30 MHz to 10th carrier harmonic		
RB / VB (emission in restricted band)	100 KHz/300 KHz		
Trace-Mode:	Max hold		

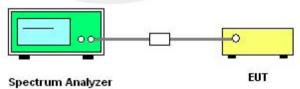
For Band edge

Spectrum Parameter	Setting		
Detector	Peak		
Start/Stop Frequency	Lower Band Edge: 2300 to 2430 MHz		
Start/Stop Frequency	Upper Band Edge: 2450 to 2500 MHz		
RB / VB (emission in restricted band)	100 KHz/300 KHz		
Trace-Mode:	Max hold		

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

4.5 EUT OPERATION CONDITIONS

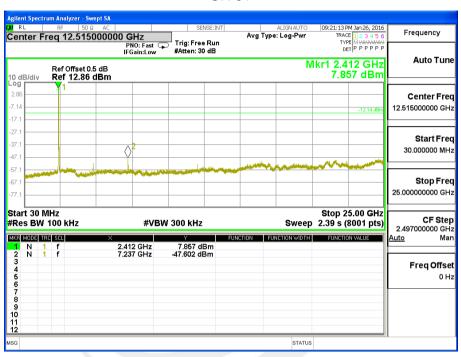
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



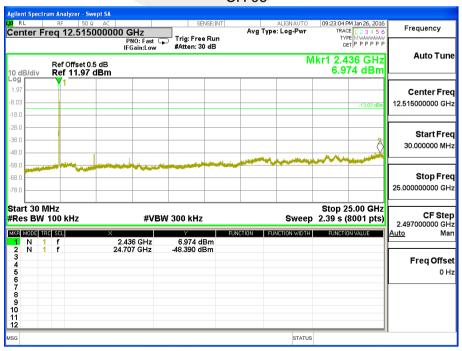
4.6 TEST RESULTS

Temperature :	25 ℃	Relative Humidity:	60%			
Pressure :	1015 hPa	Test Voltage :	DC 3.8V			
Test Mode :	TX b Mode /CH01, CH06, CH11					

CH 01

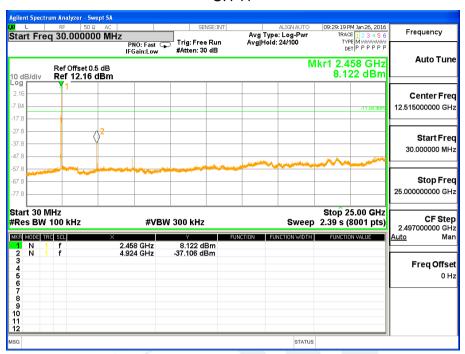


CH 06





CH 11





Band edge

CH 01



CH 11

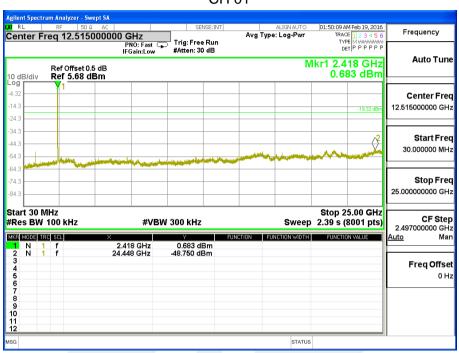




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Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX g Mode /CH01, CH06, CH11		

CH 01







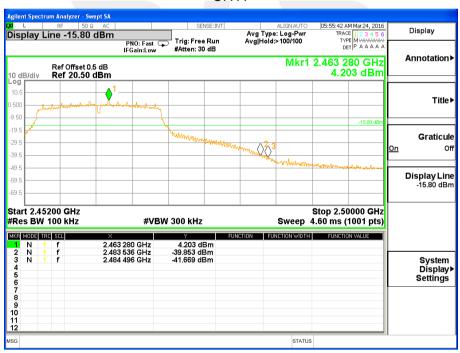




Band edge

CH 01



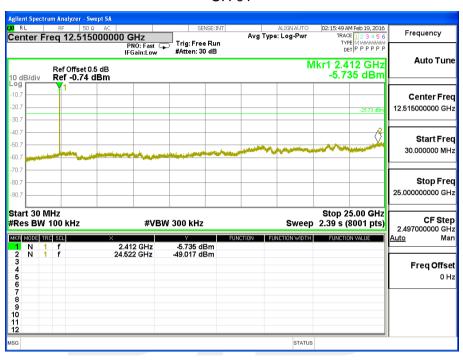




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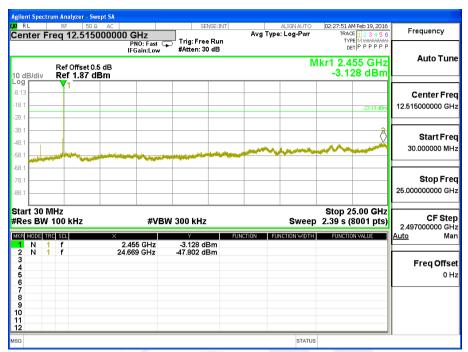
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

CH 01





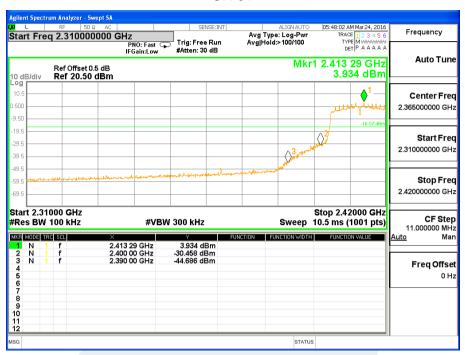






Band edge

CH 01







5. POWER SPECTRAL DENSITY TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	<8 dBm (RBW ≥ 3KHz)	2400-2483.5	PASS

5.2 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the 100 kHz \geq RBW \geq 3 kHz.
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 DEVIATION FROM STANDARD No deviation.

5.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.5 EUT OPERATION CONDITIONS

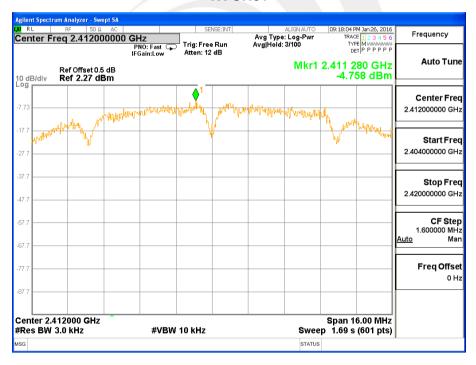
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



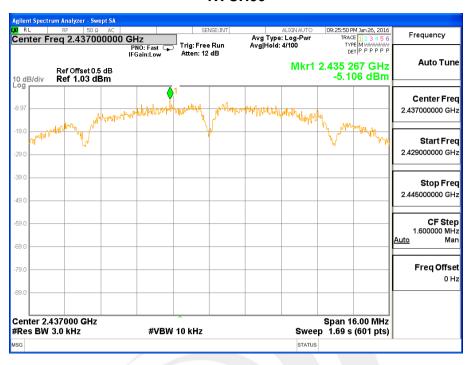
5.6 TEST RESULTS

Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX b Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm/3kHz)	Limit (dBm)	Result
2412 MHz	-4.758	8>	PASS
2437 MHz	-5.106	< 8	PASS
2462 MHz	-6.240	< 8	PASS







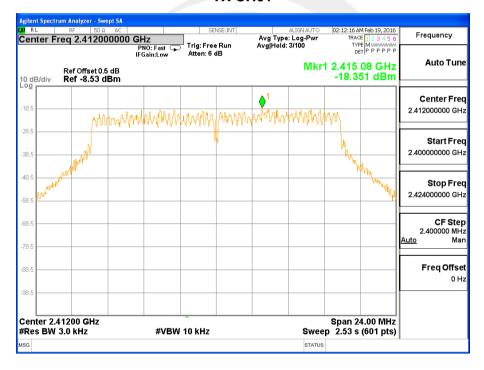




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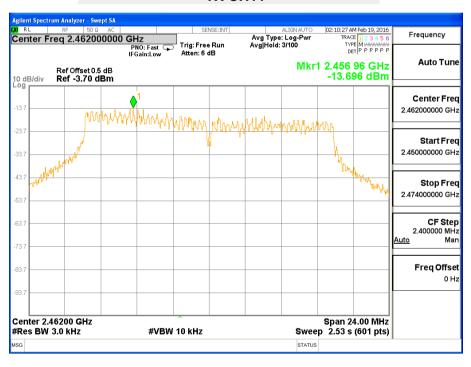
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX g Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm/3kHz)	Limit (dBm)	Result
2412 MHz	-18.351	8>	PASS
2437 MHz	-19.840	<8	PASS
2462 MHz	-13.696	<8	PASS







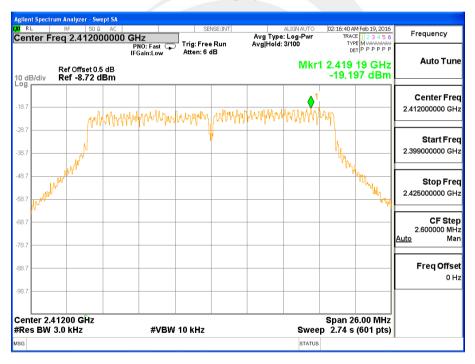




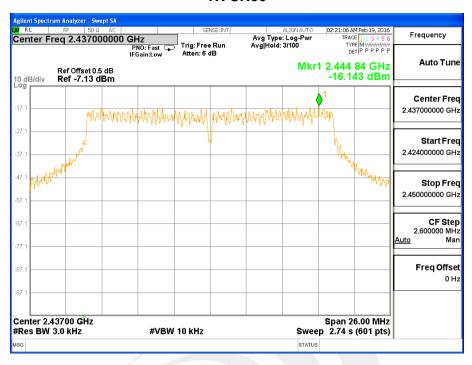
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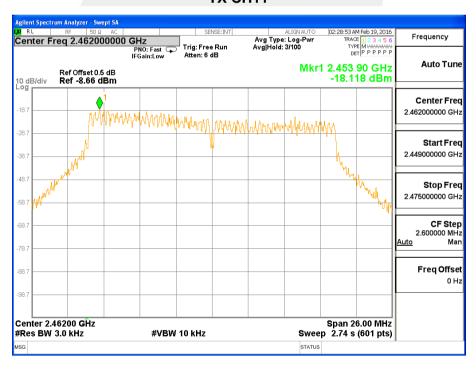
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

Frequency	Power Density (dBm/3kHz)	Limit (dBm)	Result
2412 MHz	-19.197	8>	PASS
2437 MHz	-16.143	8 >	PASS
2462 MHz	-18.118	<8	PASS











6. BANDWIDTH TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	≥500KHz (6dB bandwidth)	2400-2483.5	PASS

6.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW≥3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be≥6 dB.

6.3 DEVIATION FROM STANDARD No deviation.

6.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

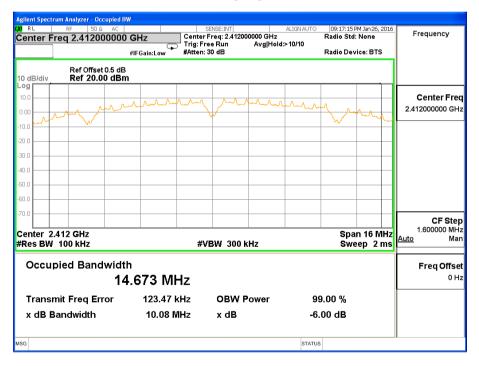


6.6 TEST RESULTS

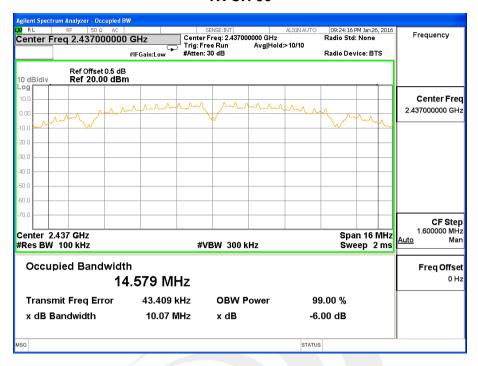
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX b Mode /CH01, CH06, CH11		

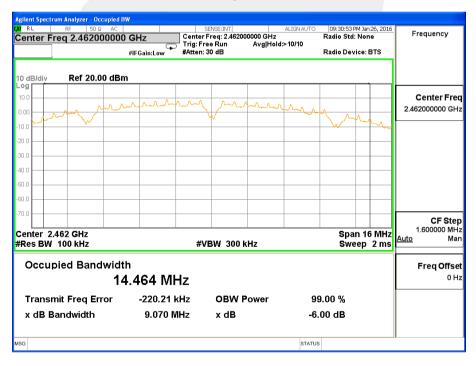
Remark: PEAK DETECTOR IS USED

Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	10.08	≥500KHz	PASS
2437 MHz	10.07	≥500KHz	PASS
2462 MHz	9.07	≥500KHz	PASS







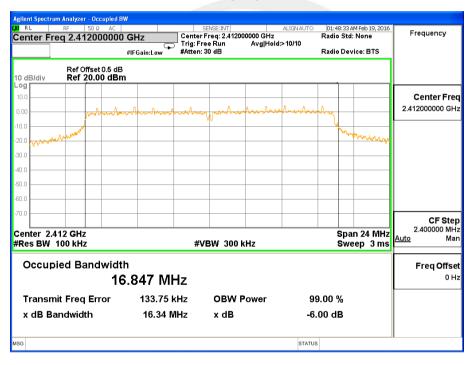




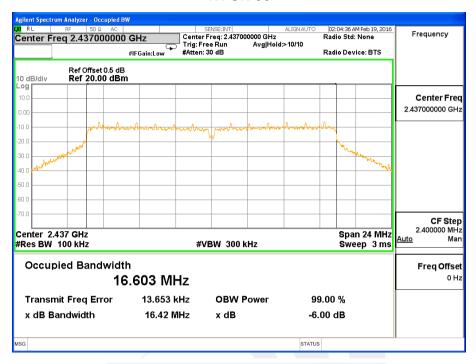
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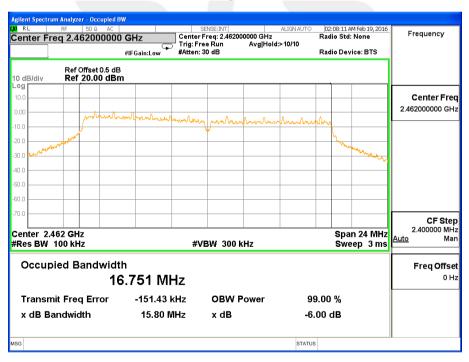
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX g Mode /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	16.34	≥500KHz	PASS
2437 MHz	16.42	≥500KHz	PASS
2462 MHz	15.8	≥500KHz	PASS











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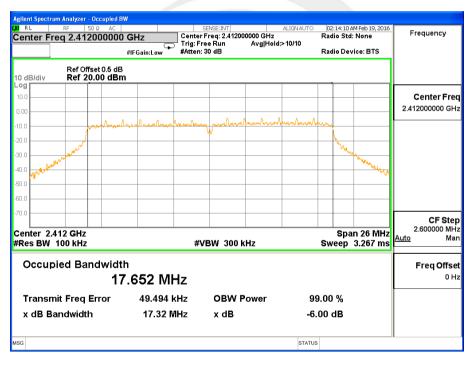


Temperature : 25 ℃ Relative Humidity : 60%

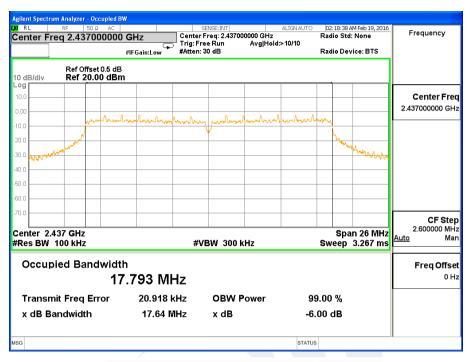
Pressure : 1012 hPa Test Voltage : DC 3.8V

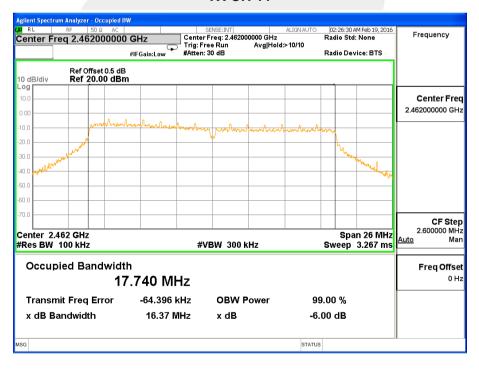
Test Mode : TX n Mode(20M) /CH01, CH06, CH11

Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	17.32	≥500KHz	PASS
2437 MHz	17.64	≥500KHz	PASS
2462 MHz	16.37	≥500KHz	PASS











7. PEAK OUTPUT POWER TEST

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section Test Item Limit Frequency Range (MHz) Result				Result
15.247(b)(3) Output Power 1 watt or 30dBm 2400-2483.5 PA				PASS

7.2 TEST PROCEDURE

a. The EUT was directly connected to the Power Sensor&Power meter

7.3 DEVIATION FROM STANDARD No deviation.

7.4 TEST SETUP

EUT	Power Sensor

7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.





7.6 TEST RESULTS

Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V

TX 802.11b Mode				
Test	Frequency	Conducted Output Power		LIMIT
Channe	(MHz)	Peak(dBm)	AVG(dBm)	dBm
CH01	2412	16.5	15.86	30
CH06	2437	16.3	15.89	30
CH11	2462	16.7	16.02	30

TX 802.11g Mode					
Test	Frequency	Conducted (Output Power	LIMIT	
Channe	(MHz)	Peak(dBm)	AVG(dBm)	dBm	
CH01	2412	13.9	12.5	30	
CH06	2437	14.2	12.96	30	
CH11	2462	14.3	13.12	30	

TX 802.11n20 Mode					
Test	Frequency	LIMIT			
Channe	(MHz)	Peak(dBm)	AVG(dBm)	dBm	
CH01	2412	13.8	13.1	30	
CH06	2437	14.0	13.18	30	
CH11	2462	14.1	13.22	30	



8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

8.2 EUT ANTENNA

The EUT antenna is PIFA Antenna. It comply with the standard requirement.





APPENDIX - PHOTOS OF TEST SETUP

Radiated Measurement Photos







Conducted Measurement Photos



* * * * END OF THE REPORT * * * *