



FCC TEST REPORT

FCC ID:2AYFS-HT-88

Report Number..... : ZKT-2208256153E

Date of Test..... Aug. 22, 2022 to Sept. 01, 2022

Date of issue..... : Sept. 01, 2022

Total number of pages..... 57

Test Result..... : PASS

Testing Laboratory..... : **Shenzhen ZKT Technology Co., Ltd.**

Address : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name : **Shenzhen Shi yutong Technology Co. LTD**

Address : Lianjian Science and Technology Industrial Park,Dalang Street, Longhua District, Shenzhen city , China

Manufacturer's name : **Shenzhen Shi yutong Technology Co. LTD**

Address : Lianjian Science and Technology Industrial Park,Dalang Street, Longhua District, Shenzhen city , China

Test specification:

Standard..... : FCC CFR Title 47 Part 15 Subpart C Section 15.247
ANSI C63.10:2013

Test procedure..... : /

Non-standard test method : N/A

Test Report Form No..... : TRF-EL-110_V0

Test Report Form(s) Originator..... : ZKT Testing

Master TRF : Dated: 2020-01-06

This device described above has been tested by ZKT, 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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Product name..... : **Digital Night Vision**

Trademark : N/A

Model/Type reference..... : HT-88

Ratings..... : Input:DC 5V 2A or Battery DC 3.7V



Testing procedure and testing location:

Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.

**Address.....: 1/F, No. 101, Building B, No. 6, Tangwei Community
Industrial Avenue, Fuhai Street, Bao'an District,
Shenzhen, China**

Tested by (name + signature).....: Jim Liu

Jim Liu

Reviewer (name + signature).....: Tom Zou

Tom Zou

Approved (name + signature).....: Lake Xie





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1. VERSION

ReportNo.	Version	Description	Approved
ZKT-2208256153E	Rev.01	Initial issue of report	Sept. 01, 2022



2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Result	Remark
FCC part 15.203/15.247 (c)	Antenna requirement	PASS	
FCC part 15.207	AC Power Line Conducted Emission	PASS	
FCC part 15.247 (b)(3)	Conducted Peak Output Power	PASS	
FCC part 15.247 (a)(2)	Channel Bandwidth& 99% OCB	PASS	
FCC part 15.247 (e)	Power Spectral Density	PASS	
FCC part 15.247(d)	Band Edge	PASS	
FCC part 15.205/15.209	Spurious Emission	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report



2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.

Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 692225

Designation Number: CN1299

IC Registered No.: 27033

CAB identifier: CN0110

2.2 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 Test	$\pm 1.38\text{dB}$
2	RF powerconducted	$\pm 0.16\text{dB}$
3	Spurious emissionsconducted	$\pm 0.21\text{dB}$
4	All emissionsradiated(<1G)	$\pm 4.68\text{dB}$
5	All emissionsradiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Digital Night Vision
Model No.:	HT-88
Model Different.:	N/A
Sample ID	ZKT-2208256153
Sample(s) Status:	Engineer sample
Channel numbers:	802.11b/802.11g /802.11n(HT20):11 802.11n(HT40):7
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum(DSSS) 802.11g/802.11n(H20/H40):
Antenna Type and Antenna gain:	FPCB Antenna,1.42dBi
Worst Case:	2.4G WIFI 802.11
Power supply:	Input:DC 5V 2A or Battery DC 3.7V



3.2 DESCRIPTION OF TEST MODES

Transmitting mode	Keep the EUT in continuously transmitting mode
Remark: During the test,the dutycycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.	

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:					
Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.					
Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps	

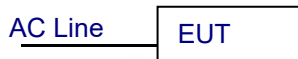
Test Software	Realtek Test Tool
Powerlevelsetup	<10dBm

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission



Radiated Emission



Conducted Spurious



3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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.	Series No.	Note
E-1	Digital Night Vision	N/A	HT-88	N/A	EUT
A-1	Adapter	HW	ZKT-01	N/A	Auxiliary



Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.8m	EUT

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 『Length』 column.



3.5EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer	KEYSIGHT	9020A	MY55370835	Oct. 18, 2021	Oct. 17, 2022
	(9kHz-26.5GHz)					
2	Spectrum Analyzer	R&S	FSQ	100363	Oct. 17, 2021	Oct. 16, 2022
	(1GHz-40GHz)					
3	EMI Test Receiver	R&S	ESCI7	101169	Oct. 18, 2021	Oct. 17, 2022
	(9kHz-7GHz)					
4	Bilog Antenna	Schwarzbeck	VULB9168	N/A	Oct. 17, 2021	Oct. 16, 2022
	(30MHz-1500MHz)					
5	Horn Antenna	Agilent	AH-118	071145	Oct. 17, 2021	Oct. 16, 2022
	(1GHz-18GHz)					
6	Loop Antenna	TESEQ	HLA6121	58357	Oct. 17, 2021	Oct. 16, 2022
7	Amplifier	EM Electronics	EM330 Amplifier	060747	Oct. 18, 2021	Oct. 17, 2022
	(30-1000MHz)					
8	Amplifier (1GHz-26.5GHz)	Agilent	8449B	3008A00315	Oct. 18, 2021	Oct. 17, 2022
9	RF cables1	N/A	9kHz-30MHz	N/A	Oct. 18, 2021	Oct. 17, 2022
	(9kHz-30MHz)					
10	RF cables2	N/A	30MHz-1GHz	N/A	Oct. 18, 2021	Oct. 17, 2022
	(30MHz-1GHz)					
11	RF cables3	N/A	1GHz-40GHz	N/A	Oct. 18, 2021	Oct. 17, 2022
	(1GHz-40GHz)					
12	ESG Signal Generator	Agilent	E4421B	N/A	Oct. 22, 2021	Oct. 21, 2022
13	Signal Generator	Agilent	N5182A	N/A	Oct. 22, 2021	Oct. 21, 2022
14	Magnetic Field Probe Tester	Narda	ELT-400	0-0344	Oct. 17, 2021	Oct. 16, 2022
15	MWRF Power Meter Test system	MW	MW100-RPCB	N/A	Oct. 22, 2021	Oct. 21, 2022
16	D.C. Power Supply	LongWei	TPR-6405D	N/A	\	\
17	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	\	\
18	RF Software	MW	MTS8310	V2.0.0.0	\	\
19	Turntable	MF	MF-7802BS	N/A	\	\
20	Antenna tower	MF	MF-7802BS	N/A	\	\



Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	Oct. 22, 2021	Oct. 21, 2022
2	LISN	CYBERTEK	EM5040A	E185040014 9	Oct. 22, 2021	Oct. 21, 2022
3	Test Cable	N/A	C01	N/A	Oct. 18, 2021	Oct. 17, 2022
4	Test Cable	N/A	C02	N/A	Oct. 18, 2021	Oct. 17, 2022
5	EMI Test Receiver	R&S	ESCI3	101393	Oct. 17, 2021	Oct. 16, 2022
6	EMC Software	Frad	EZ-EMC	Ver.EMC-CO N 3A1.1	\	\



4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

4.1.2 TEST PROCEDURE

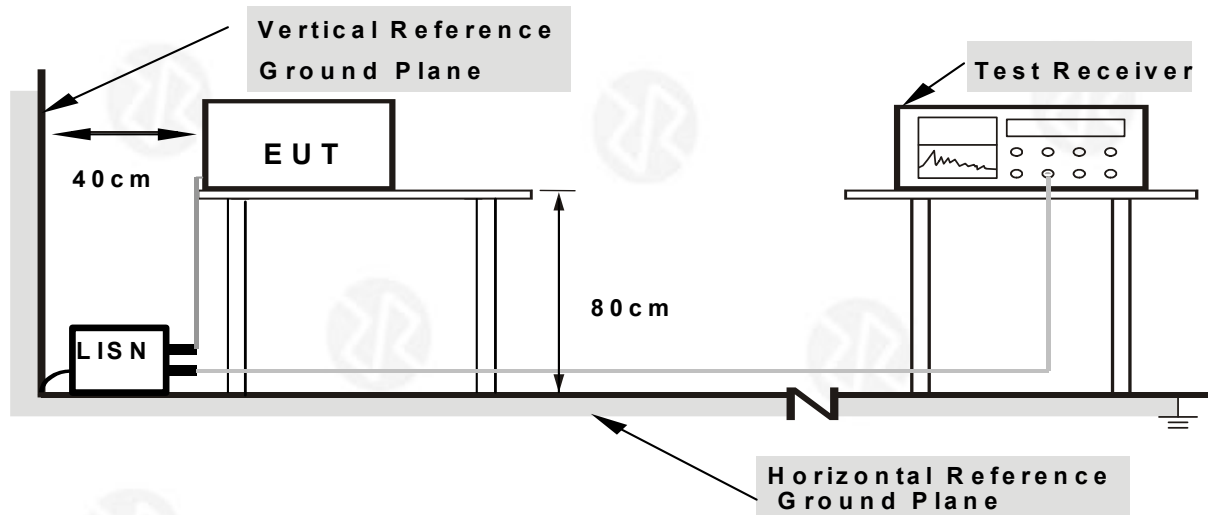
- The EUT was placed 0.1 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation



4.1.4 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 cm from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

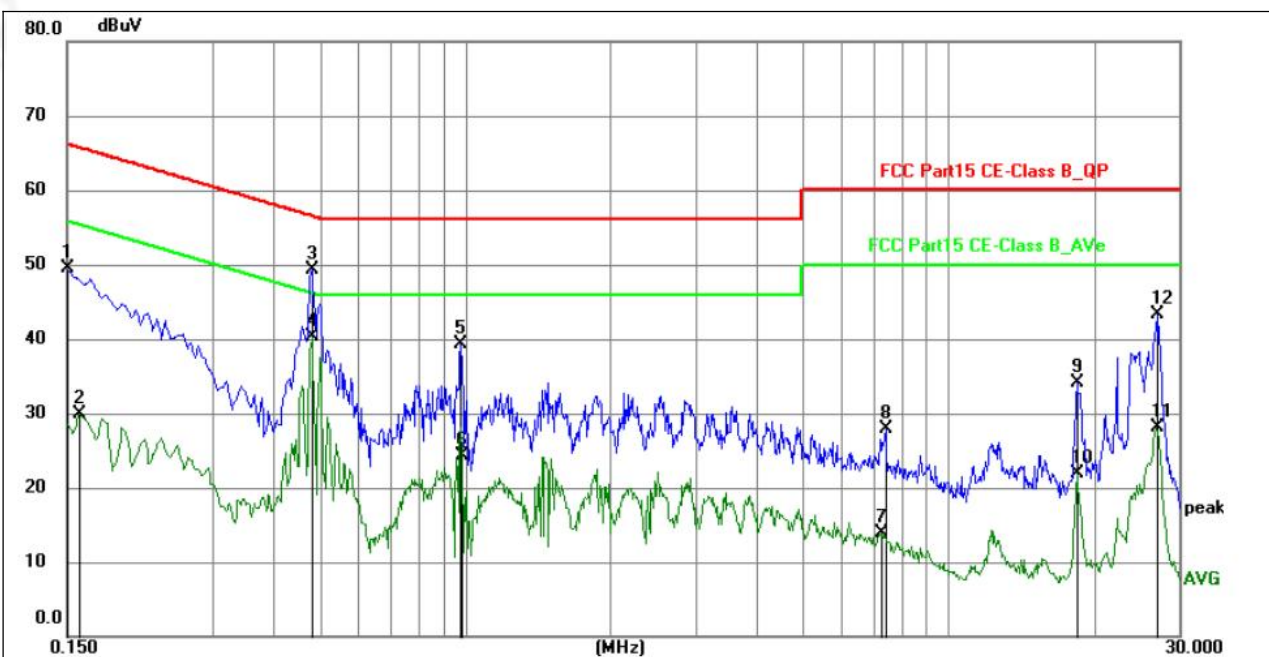
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

We pretest AC 120V and AC 230V, the worst voltage was AC 120V and the data recording in the report.



4.1.6 TEST RESULT

Temperature :	26℃	Relative Humidity:	54%
Pressure :	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz		



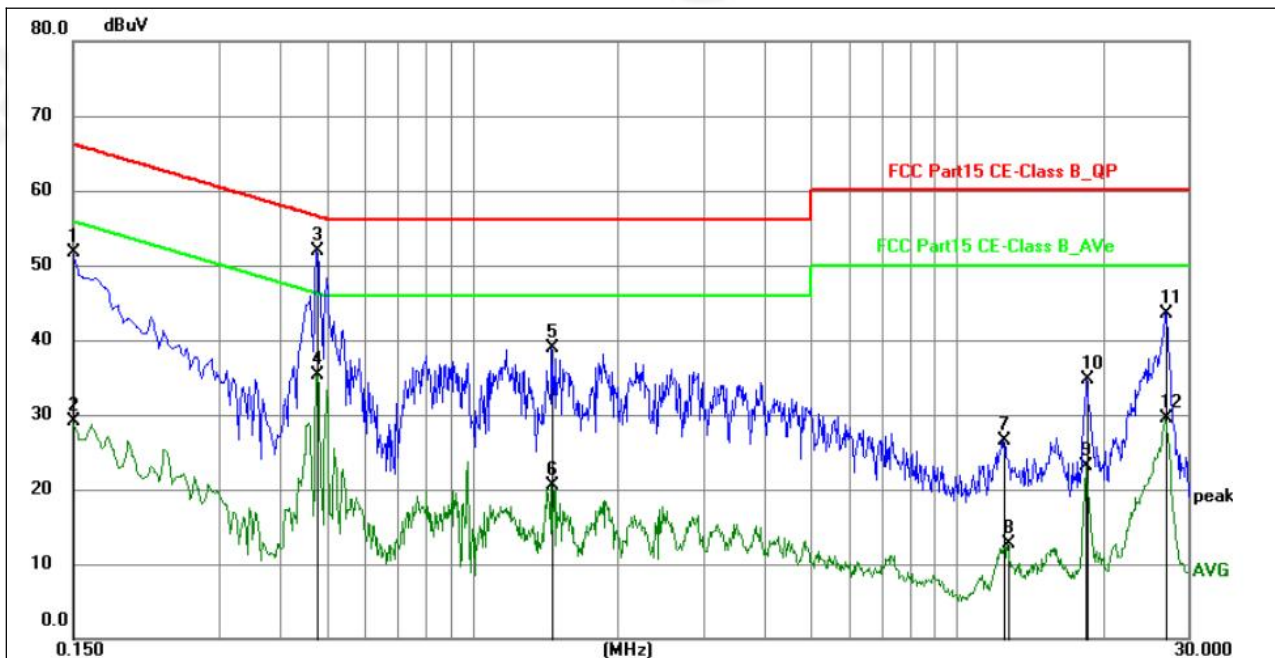
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz						Detector	Comment
1		0.1500	36.47	13.01	49.48	66.00	-16.52	QP	
2		0.1582	17.01	12.83	29.84	55.56	-25.72	AVG	
3		0.4812	38.74	10.63	49.37	56.32	-6.95	QP	
4	*	0.4812	29.74	10.63	40.37	46.32	-5.95	AVG	
5		0.9787	28.87	10.44	39.31	56.00	-16.69	QP	
6		0.9839	13.93	10.44	24.37	46.00	-21.63	AVG	
7		7.2903	5.41	8.56	13.97	50.00	-36.03	AVG	
8		7.4071	19.37	8.55	27.92	60.00	-32.08	QP	
9		18.4258	24.43	9.64	34.07	60.00	-25.93	QP	
10		18.4258	12.29	9.64	21.93	50.00	-28.07	AVG	
11		26.8411	18.13	9.93	28.06	50.00	-21.94	AVG	
12		26.9836	33.38	9.93	43.31	60.00	-16.69	QP	

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor



Temperature :	26°C	Relative Humidity:	54%
Pressure :	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz						Detector	Comment
1		0.1500	38.65	13.01	51.66	66.00	-14.34	QP	
2		0.1500	16.04	13.01	29.05	56.00	-26.95	AVG	
3	*	0.4785	41.22	10.64	51.86	56.37	-4.51	QP	
4		0.4785	24.71	10.64	35.35	46.37	-11.02	AVG	
5		1.4595	28.55	10.33	38.88	56.00	-17.12	QP	
6		1.4595	10.14	10.33	20.47	46.00	-25.53	AVG	
7		12.5115	17.74	8.81	26.55	60.00	-33.45	QP	
8		12.7185	3.81	8.84	12.65	50.00	-37.35	AVG	
9		18.4695	13.38	9.65	23.03	50.00	-26.97	AVG	
10		18.5550	25.13	9.66	34.79	60.00	-25.21	QP	
11		26.8980	33.61	9.93	43.54	60.00	-16.46	QP	
12		26.8980	19.51	9.93	29.44	50.00	-20.56	AVG	

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor



4.2 RADIATED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average

4.2.1 RADIATED EMISSION LIMITS

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	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).

4.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.1 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of variable-height antenna tower.



- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- g. Different from above is the test site, change from Semi-Anechoic Chamber to fully Anechoic Chamber and change from table 0.8 meter to 1.5 meter (Above 18GHz the distance is 1 meter and table is 1.5 meter).
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel

Note:

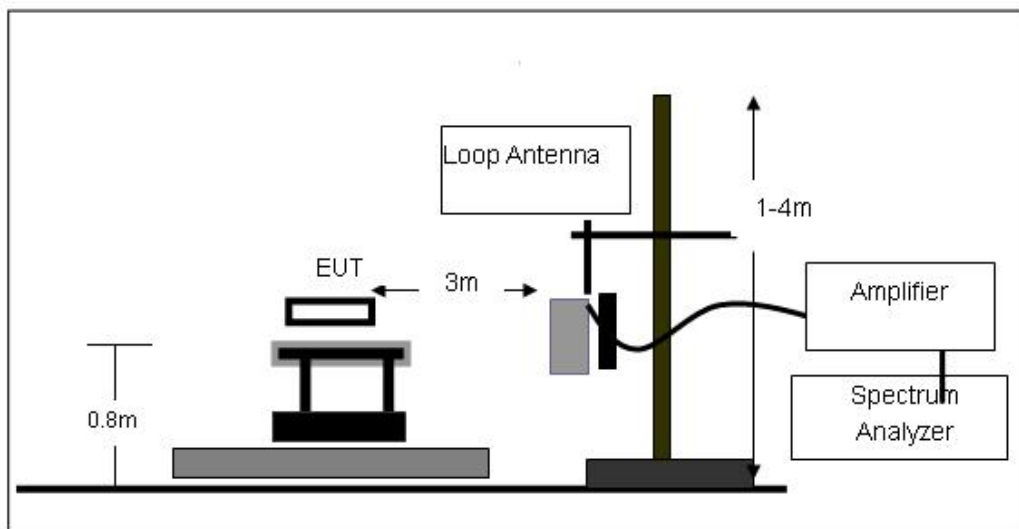
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

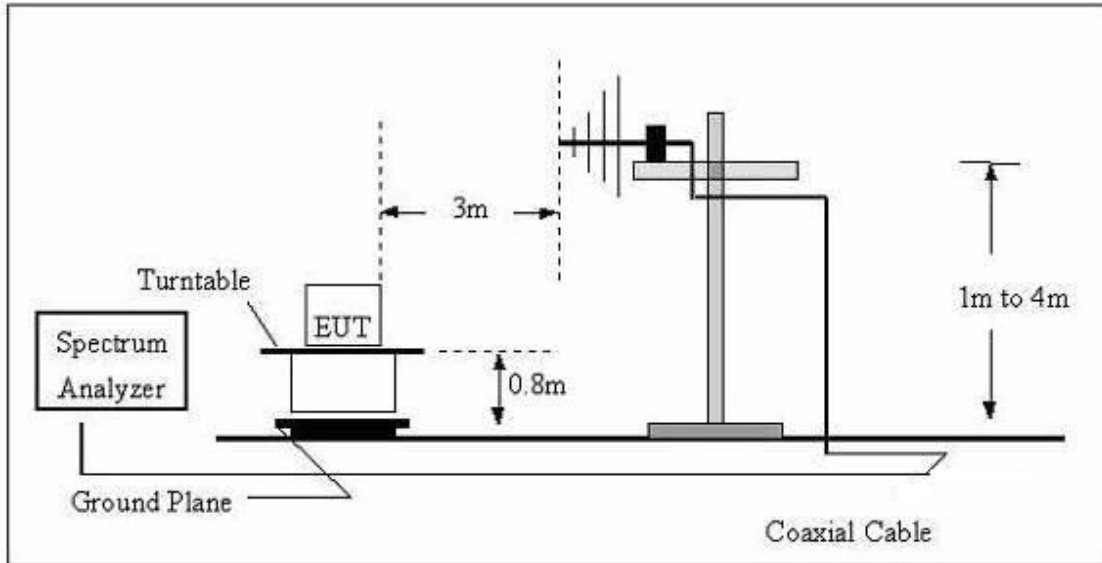
4.2.4 TEST SETUP

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

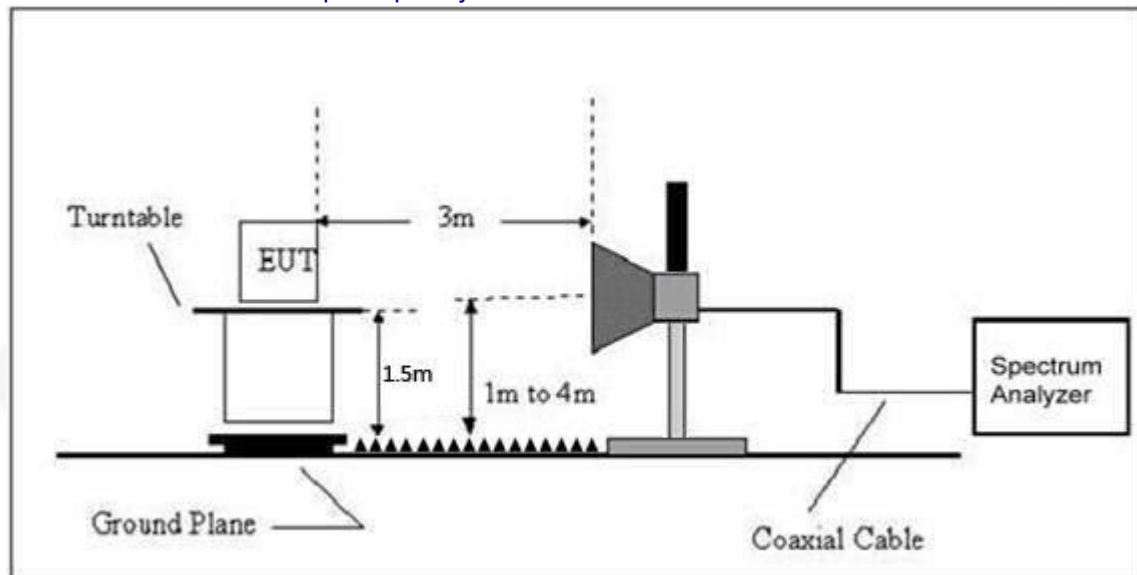




(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

4.2.6 TEST RESULTS

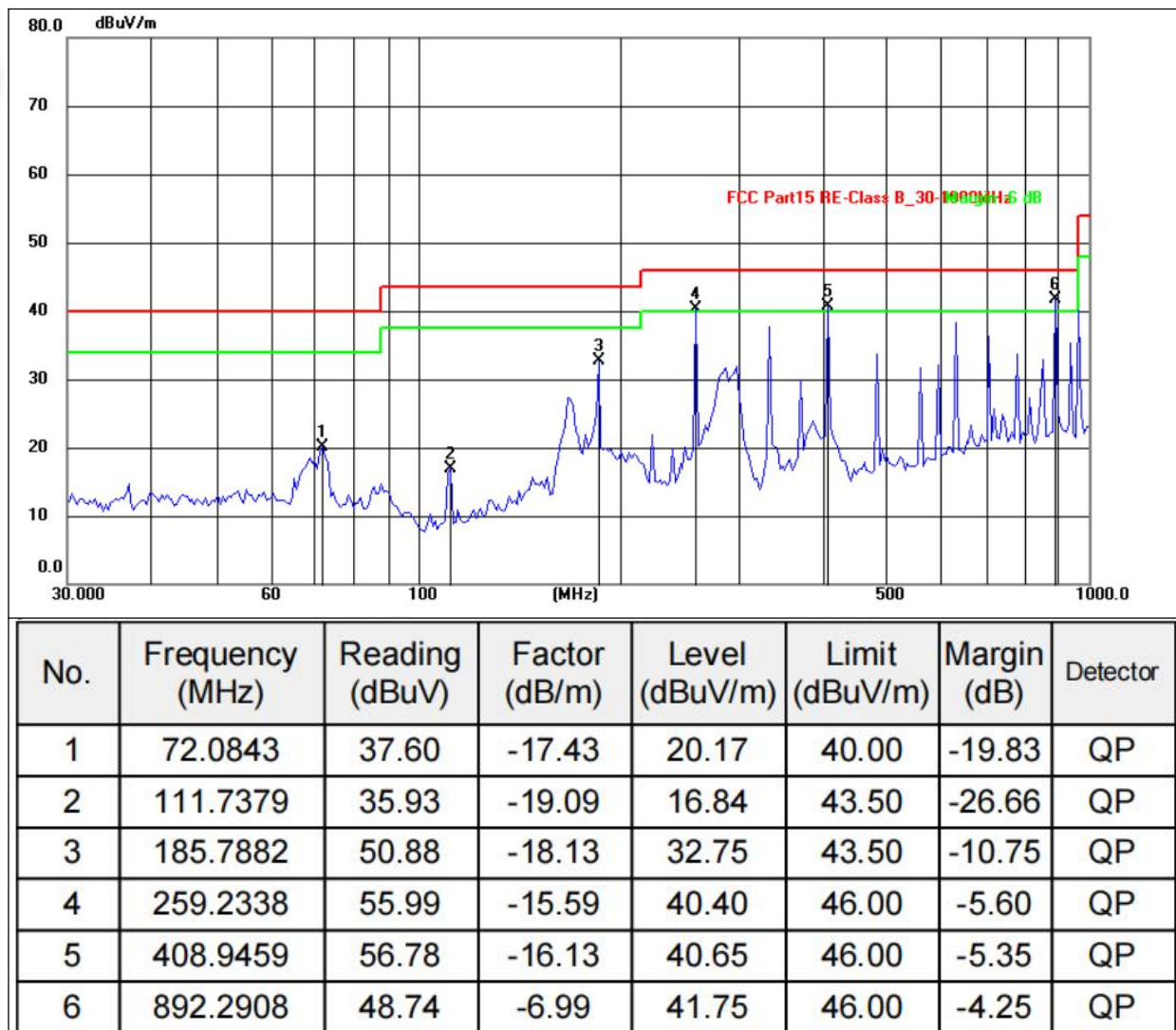
Between 9KHz – 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.



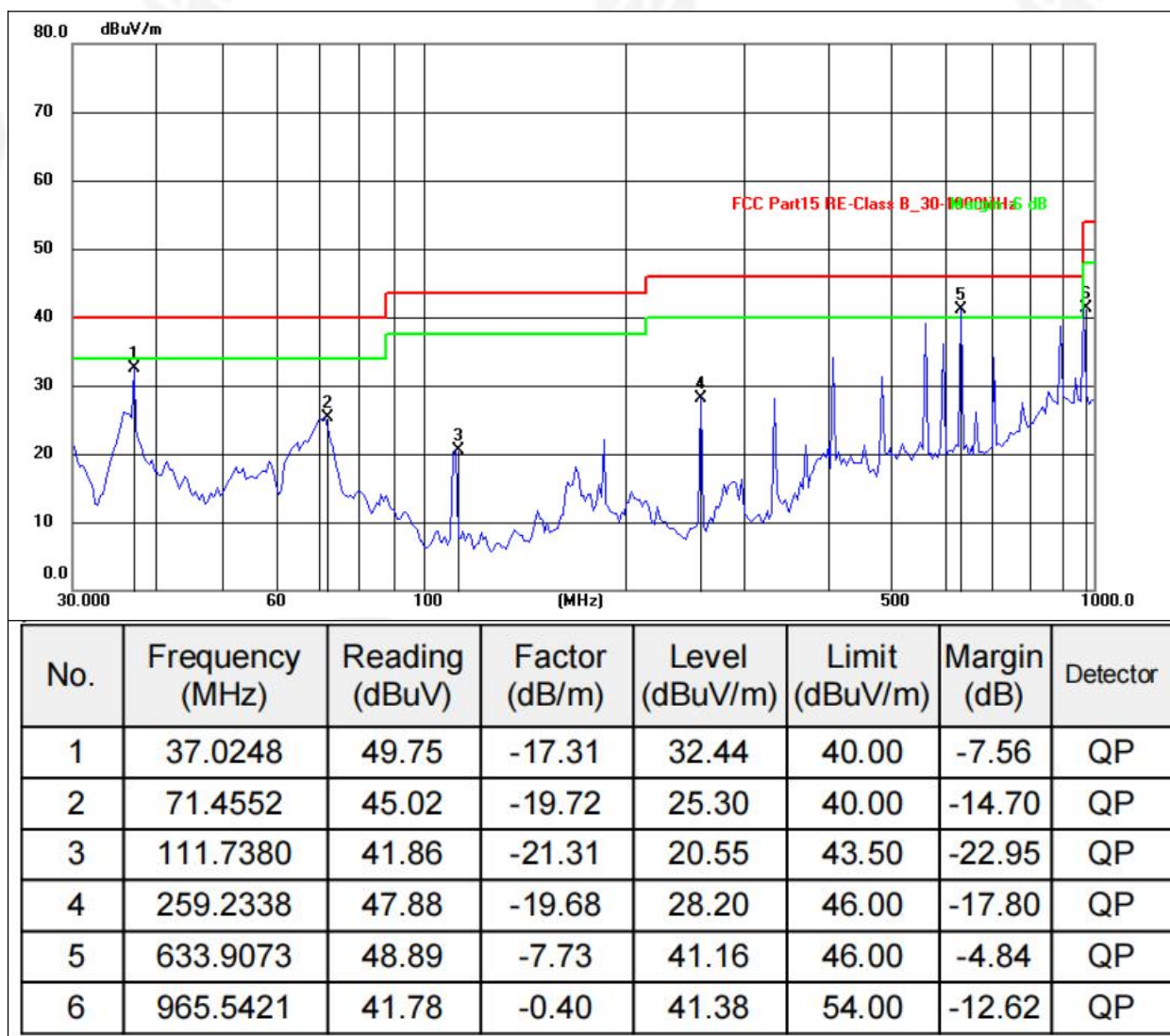
Between 30MHz – 1GHz

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 5V	Test Mode	Working





Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 5V	Test Mode	Working



Remarks:

- 1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2.The emission levels of other frequencies are very lower than the limit and not show in test report.



1GHz~25GHz

802.11b

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2412MHz									
V	4824.00	52.26	30.55	5.77	24.66	52.14	74.00	-21.86	PK
V	4824.00	43.56	30.55	5.77	24.66	43.44	54.00	-10.56	AV
V	7236.00	52.80	30.33	6.32	24.55	53.34	74.00	-20.66	PK
V	7236.00	43.40	30.33	6.32	24.55	43.94	54.00	-10.06	AV
V	9648.00	54.90	30.85	7.45	24.69	56.19	74.00	-17.81	PK
V	9648.00	43.10	30.85	7.45	24.69	44.39	54.00	-9.61	AV
V	12060.00	52.20	31.02	8.99	25.57	55.74	74.00	-18.26	PK
V	12060.00	43.80	31.02	8.99	25.57	47.34	54.00	-6.66	AV
H	4824.00	54.72	30.55	5.77	24.66	54.60	74.00	-19.40	PK
H	4824.00	43.45	30.55	5.77	24.66	43.33	54.00	-10.67	AV
H	7236.00	50.59	30.33	6.32	24.55	51.13	74.00	-22.87	PK
H	7236.00	43.48	30.33	6.32	24.55	44.02	54.00	-9.98	AV
H	9648.00	53.46	30.85	7.45	24.69	54.75	74.00	-19.25	PK
H	9648.00	43.91	30.85	7.45	24.69	45.20	54.00	-8.80	AV
H	12060.00	50.23	31.02	8.99	25.57	53.77	74.00	-20.23	PK
H	12060.00	43.52	31.02	8.99	25.57	47.06	54.00	-6.94	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	51.29	30.55	5.77	24.66	51.17	74.00	-22.83	PK
V	4874.00	43.78	30.55	5.77	24.66	43.66	54.00	-10.34	AV
V	7311.00	54.87	30.33	6.32	24.55	55.41	74.00	-18.59	PK
V	7311.00	43.10	30.33	6.32	24.55	43.64	54.00	-10.36	AV
V	9748.00	50.56	30.85	7.45	24.69	51.85	74.00	-22.15	PK
V	9748.00	43.63	30.85	7.45	24.69	44.92	54.00	-9.08	AV
V	12185.00	50.18	31.02	8.99	25.57	53.72	74.00	-20.28	PK
V	12185.00	43.43	31.02	8.99	25.57	46.97	54.00	-7.03	AV
H	4874.00	50.05	30.55	5.77	24.66	49.93	74.00	-24.07	PK
H	4874.00	43.21	30.55	5.77	24.66	43.09	54.00	-10.91	AV
H	7311.00	52.69	30.33	6.32	24.55	53.23	74.00	-20.77	PK
H	7311.00	43.62	30.33	6.32	24.55	44.16	54.00	-9.84	AV
H	9748.00	52.82	30.85	7.45	24.69	54.11	74.00	-19.89	PK
H	9748.00	43.30	30.85	7.45	24.69	44.59	54.00	-9.41	AV
H	12185.00	51.69	31.02	8.99	25.57	55.23	74.00	-18.77	PK
H	12185.00	43.39	31.02	8.99	25.57	46.93	54.00	-7.07	AV



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Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2462MHz									
V	4924.00	50.13	30.55	5.77	24.66	50.01	74.00	-23.99	PK
V	4924.00	43.84	30.55	5.77	24.66	43.72	54.00	-10.28	AV
V	7386.00	54.31	30.33	6.32	24.55	54.85	74.00	-19.15	PK
V	7386.00	43.17	30.33	6.32	24.55	43.71	54.00	-10.29	AV
V	9848.00	51.44	30.85	7.45	24.69	52.73	74.00	-21.27	PK
V	9848.00	43.91	30.85	7.45	24.69	45.20	54.00	-8.80	AV
V	12310.00	51.52	31.02	8.99	25.57	55.06	74.00	-18.94	PK
V	12310.00	43.61	31.02	8.99	25.57	47.15	54.00	-6.85	AV
H	4924.00	52.88	30.55	5.77	24.66	52.76	74.00	-21.24	PK
H	4924.00	43.48	30.55	5.77	24.66	43.36	54.00	-10.64	AV
H	7386.00	54.09	30.33	6.32	24.55	54.63	74.00	-19.37	PK
H	7386.00	43.63	30.33	6.32	24.55	44.17	54.00	-9.83	AV
H	9848.00	53.71	30.85	7.45	24.69	55.00	74.00	-19.00	PK
H	9848.00	43.73	30.85	7.45	24.69	45.02	54.00	-8.98	AV
H	12310.00	52.64	31.02	8.99	25.57	56.18	74.00	-17.82	PK
H	12310.00	43.11	31.02	8.99	25.57	46.65	54.00	-7.35	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

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



802.11g

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2412MHz									
V	4824.00	54.90	30.55	5.77	24.66	54.78	74.00	-19.22	PK
V	4824.00	43.28	30.55	5.77	24.66	43.16	54.00	-10.84	AV
V	7236.00	53.09	30.33	6.32	24.55	53.63	74.00	-20.37	PK
V	7236.00	43.43	30.33	6.32	24.55	43.97	54.00	-10.03	AV
V	9648.00	53.63	30.85	7.45	24.69	54.92	74.00	-19.08	PK
V	9648.00	43.07	30.85	7.45	24.69	44.36	54.00	-9.64	AV
V	12060.00	54.12	31.02	8.99	25.57	57.66	74.00	-16.34	PK
V	12060.00	43.49	31.02	8.99	25.57	47.03	54.00	-6.97	AV
H	4824.00	52.98	30.55	5.77	24.66	52.86	74.00	-21.14	PK
H	4824.00	43.30	30.55	5.77	24.66	43.18	54.00	-10.82	AV
H	7236.00	52.11	30.33	6.32	24.55	52.65	74.00	-21.35	PK
H	7236.00	43.82	30.33	6.32	24.55	44.36	54.00	-9.64	AV
H	9648.00	52.47	30.85	7.45	24.69	53.76	74.00	-20.24	PK
H	9648.00	43.49	30.85	7.45	24.69	44.78	54.00	-9.22	AV
H	12060.00	50.91	31.02	8.99	25.57	54.45	74.00	-19.55	PK
H	12060.00	43.89	31.02	8.99	25.57	47.43	54.00	-6.57	AV

Polar (H/V)	Frequency	Meter Reading	Pre-amp lifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	54.41	30.55	5.77	24.66	54.29	74.00	-19.71	PK
V	4874.00	43.24	30.55	5.77	24.66	43.12	54.00	-10.88	AV
V	7311.00	50.78	30.33	6.32	24.55	51.32	74.00	-22.68	PK
V	7311.00	43.08	30.33	6.32	24.55	43.62	54.00	-10.38	AV
V	9748.00	53.19	30.85	7.45	24.69	54.48	74.00	-19.52	PK
V	9748.00	43.36	30.85	7.45	24.69	44.65	54.00	-9.35	AV
V	12185.00	50.49	31.02	8.99	25.57	54.03	74.00	-19.97	PK
V	12185.00	43.84	31.02	8.99	25.57	47.38	54.00	-6.62	AV
H	4874.00	52.43	30.55	5.77	24.66	52.31	74.00	-21.69	PK
H	4874.00	43.35	30.55	5.77	24.66	43.23	54.00	-10.77	AV
H	7311.00	51.20	30.33	6.32	24.55	51.74	74.00	-22.26	PK
H	7311.00	43.06	30.33	6.32	24.55	43.60	54.00	-10.40	AV
H	9748.00	54.00	30.85	7.45	24.69	55.29	74.00	-18.71	PK
H	9748.00	43.82	30.85	7.45	24.69	45.11	54.00	-8.89	AV
H	12185.00	51.12	31.02	8.99	25.57	54.66	74.00	-19.34	PK
H	12185.00	43.51	31.02	8.99	25.57	47.05	54.00	-6.95	AV



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Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2462MHz									
V	4924.00	50.89	30.55	5.77	24.66	50.77	74.00	-23.23	PK
V	4924.00	43.41	30.55	5.77	24.66	43.29	54.00	-10.71	AV
V	7386.00	53.09	30.33	6.32	24.55	53.63	74.00	-20.37	PK
V	7386.00	43.95	30.33	6.32	24.55	44.49	54.00	-9.51	AV
V	9848.00	50.28	30.85	7.45	24.69	51.57	74.00	-22.43	PK
V	9848.00	43.24	30.85	7.45	24.69	44.53	54.00	-9.47	AV
V	12310.00	51.21	31.02	8.99	25.57	54.75	74.00	-19.25	PK
V	12310.00	43.11	31.02	8.99	25.57	46.65	54.00	-7.35	AV
H	4924.00	54.15	30.55	5.77	24.66	54.03	74.00	-19.97	PK
H	4924.00	43.58	30.55	5.77	24.66	43.46	54.00	-10.54	AV
H	7386.00	50.78	30.33	6.32	24.55	51.32	74.00	-22.68	PK
H	7386.00	43.13	30.33	6.32	24.55	43.67	54.00	-10.33	AV
H	9848.00	53.69	30.85	7.45	24.69	54.98	74.00	-19.02	PK
H	9848.00	43.59	30.85	7.45	24.69	44.88	54.00	-9.12	AV
H	12310.00	54.53	31.02	8.99	25.57	58.07	74.00	-15.93	PK
H	12310.00	43.94	31.02	8.99	25.57	47.48	54.00	-6.52	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

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



802.11n20

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2412MHz									
V	4824.00	54.22	30.55	5.77	24.66	54.10	74.00	-19.90	PK
V	4824.00	43.62	30.55	5.77	24.66	43.50	54.00	-10.50	AV
V	7236.00	53.75	30.33	6.32	24.55	54.29	74.00	-19.71	PK
V	7236.00	43.85	30.33	6.32	24.55	44.39	54.00	-9.61	AV
V	9648.00	50.28	30.85	7.45	24.69	51.57	74.00	-22.43	PK
V	9648.00	43.64	30.85	7.45	24.69	44.93	54.00	-9.07	AV
V	12060.00	53.08	31.02	8.99	25.57	56.62	74.00	-17.38	PK
V	12060.00	43.09	31.02	8.99	25.57	46.63	54.00	-7.37	AV
H	4824.00	51.94	30.55	5.77	24.66	51.82	74.00	-22.18	PK
H	4824.00	43.78	30.55	5.77	24.66	43.66	54.00	-10.34	AV
H	7236.00	51.75	30.33	6.32	24.55	52.29	74.00	-21.71	PK
H	7236.00	43.44	30.33	6.32	24.55	43.98	54.00	-10.02	AV
H	9648.00	50.38	30.85	7.45	24.69	51.67	74.00	-22.33	PK
H	9648.00	43.01	30.85	7.45	24.69	44.30	54.00	-9.70	AV
H	12060.00	51.13	31.02	8.99	25.57	54.67	74.00	-19.33	PK
H	12060.00	43.78	31.02	8.99	25.57	47.32	54.00	-6.68	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	54.83	30.55	5.77	24.66	54.71	74.00	-19.29	PK
V	4874.00	43.03	30.55	5.77	24.66	42.91	54.00	-11.09	AV
V	7311.00	54.85	30.33	6.32	24.55	55.39	74.00	-18.61	PK
V	7311.00	43.44	30.33	6.32	24.55	43.98	54.00	-10.02	AV
V	9748.00	50.80	30.85	7.45	24.69	52.09	74.00	-21.91	PK
V	9748.00	43.03	30.85	7.45	24.69	44.32	54.00	-9.68	AV
V	12185.00	52.17	31.02	8.99	25.57	55.71	74.00	-18.29	PK
V	12185.00	43.41	31.02	8.99	25.57	46.95	54.00	-7.05	AV
H	4874.00	52.79	30.55	5.77	24.66	52.67	74.00	-21.33	PK
H	4874.00	43.67	30.55	5.77	24.66	43.55	54.00	-10.45	AV
H	7311.00	53.92	30.33	6.32	24.55	54.46	74.00	-19.54	PK
H	7311.00	43.36	30.33	6.32	24.55	43.90	54.00	-10.10	AV
H	9748.00	53.23	30.85	7.45	24.69	54.52	74.00	-19.48	PK
H	9748.00	43.17	30.85	7.45	24.69	44.46	54.00	-9.54	AV
H	12185.00	53.82	31.02	8.99	25.57	57.36	74.00	-16.64	PK
H	12185.00	43.77	31.02	8.99	25.57	47.31	54.00	-6.69	AV



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Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2462MHz									
V	4924.00	53.03	30.55	5.77	24.66	52.91	74.00	-21.09	PK
V	4924.00	43.33	30.55	5.77	24.66	43.21	54.00	-10.79	AV
V	7386.00	52.73	30.33	6.32	24.55	53.27	74.00	-20.73	PK
V	7386.00	43.85	30.33	6.32	24.55	44.39	54.00	-9.61	AV
V	9848.00	51.20	30.85	7.45	24.69	52.49	74.00	-21.51	PK
V	9848.00	43.77	30.85	7.45	24.69	45.06	54.00	-8.94	AV
V	12310.00	50.23	31.02	8.99	25.57	53.77	74.00	-20.23	PK
V	12310.00	43.75	31.02	8.99	25.57	47.29	54.00	-6.71	AV
H	4924.00	50.78	30.55	5.77	24.66	50.66	74.00	-23.34	PK
H	4924.00	43.03	30.55	5.77	24.66	42.91	54.00	-11.09	AV
H	7386.00	51.55	30.33	6.32	24.55	52.09	74.00	-21.91	PK
H	7386.00	43.98	30.33	6.32	24.55	44.52	54.00	-9.48	AV
H	9848.00	54.63	30.85	7.45	24.69	55.92	74.00	-18.08	PK
H	9848.00	43.21	30.85	7.45	24.69	44.50	54.00	-9.50	AV
H	12310.00	53.60	31.02	8.99	25.57	57.14	74.00	-16.86	PK
H	12310.00	43.53	31.02	8.99	25.57	47.07	54.00	-6.93	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11n40

Polar (H/V)	Frequenc y	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2422MHz									
V	4844.00	54.14	30.55	5.77	24.66	54.02	74.00	-19.98	PK
V	4844.00	43.66	30.55	5.77	24.66	43.54	54.00	-10.46	AV
V	7266.00	51.67	30.33	6.32	24.55	52.21	74.00	-21.79	PK
V	7266.00	43.06	30.33	6.32	24.55	43.60	54.00	-10.40	AV
V	9688.00	50.49	30.85	7.45	24.69	51.78	74.00	-22.22	PK
V	9688.00	43.66	30.85	7.45	24.69	44.95	54.00	-9.05	AV
V	12110.00	53.26	31.02	8.99	25.57	56.80	74.00	-17.20	PK
V	12110.00	43.70	31.02	8.99	25.57	47.24	54.00	-6.76	AV
H	4844.00	53.50	30.55	5.77	24.66	53.38	74.00	-20.62	PK
H	4844.00	43.52	30.55	5.77	24.66	43.40	54.00	-10.60	AV
H	7266.00	52.60	30.33	6.32	24.55	53.14	74.00	-20.86	PK
H	7266.00	43.28	30.33	6.32	24.55	43.82	54.00	-10.18	AV
H	9688.00	51.39	30.85	7.45	24.69	52.68	74.00	-21.32	PK
H	9688.00	43.73	30.85	7.45	24.69	45.02	54.00	-8.98	AV
H	12110.00	54.13	31.02	8.99	25.57	57.67	74.00	-16.33	PK
H	12110.00	43.82	31.02	8.99	25.57	47.36	54.00	-6.64	AV

Polar (H/V)	Frequenc y	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	53.66	30.55	5.77	24.66	53.54	74.00	-20.46	PK
V	4874.00	43.52	30.55	5.77	24.66	43.40	54.00	-10.60	AV
V	7311.00	54.51	30.33	6.32	24.55	55.05	74.00	-18.95	PK
V	7311.00	43.22	30.33	6.32	24.55	43.76	54.00	-10.24	AV
V	9748.00	54.80	30.85	7.45	24.69	56.09	74.00	-17.91	PK
V	9748.00	43.98	30.85	7.45	24.69	45.27	54.00	-8.73	AV
V	12185.00	51.30	31.02	8.99	25.57	54.84	74.00	-19.16	PK
V	12185.00	43.57	31.02	8.99	25.57	47.11	54.00	-6.89	AV
H	4874.00	53.72	30.55	5.77	24.66	53.60	74.00	-20.40	PK
H	4874.00	43.89	30.55	5.77	24.66	43.77	54.00	-10.23	AV
H	7311.00	54.00	30.33	6.32	24.55	54.54	74.00	-19.46	PK
H	7311.00	43.44	30.33	6.32	24.55	43.98	54.00	-10.02	AV
H	9748.00	53.69	30.85	7.45	24.69	54.98	74.00	-19.02	PK
H	9748.00	43.81	30.85	7.45	24.69	45.10	54.00	-8.90	AV
H	12185.00	50.99	31.02	8.99	25.57	54.53	74.00	-19.47	PK
H	12185.00	43.93	31.02	8.99	25.57	47.47	54.00	-6.53	AV



Polar (H/V)	Frequency	Meter Reading	Pre-amp lifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2452MHz									
V	4904.00	50.73	30.55	5.77	24.66	50.61	74.00	-23.39	PK
V	4904.00	43.17	30.55	5.77	24.66	43.05	54.00	-10.95	AV
V	7356.00	53.24	30.33	6.32	24.55	53.78	74.00	-20.22	PK
V	7356.00	43.32	30.33	6.32	24.55	43.86	54.00	-10.14	AV
V	9808.00	52.73	30.85	7.45	24.69	54.02	74.00	-19.98	PK
V	9808.00	43.30	30.85	7.45	24.69	44.59	54.00	-9.41	AV
V	12260.00	52.37	31.02	8.99	25.57	55.91	74.00	-18.09	PK
V	12260.00	43.83	31.02	8.99	25.57	47.37	54.00	-6.63	AV
H	4904.00	53.02	30.55	5.77	24.66	52.90	74.00	-21.10	PK
H	4904.00	43.22	30.55	5.77	24.66	43.10	54.00	-10.90	AV
H	7356.00	52.69	30.33	6.32	24.55	53.23	74.00	-20.77	PK
H	7356.00	43.67	30.33	6.32	24.55	44.21	54.00	-9.79	AV
H	9808.00	54.83	30.85	7.45	24.69	56.12	74.00	-17.88	PK
H	9808.00	44.00	30.85	7.45	24.69	45.29	54.00	-8.71	AV
H	12260.00	50.90	31.02	8.99	25.57	54.44	74.00	-19.56	PK
H	12260.00	43.72	31.02	8.99	25.57	47.26	54.00	-6.74	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

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



5. RADIATED BAND EMISSION MEASUREMENT

5.1 TEST REQUIREMENT:

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	Above	Peak	1MHz	3MHz	Peak
	1GHz	Average	1MHz	3MHz	Average

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)	
	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).

5.2 TEST PROCEDURE

Above 1GHz test procedure as below:

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the Highest channel

Note:

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

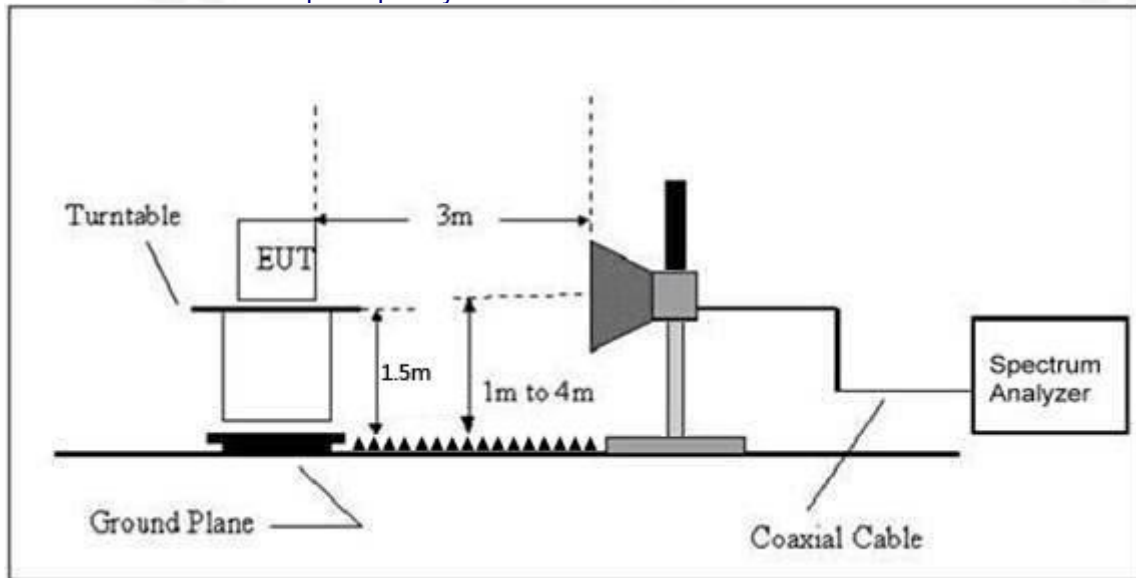
5.3 DEVIATION FROM TEST STANDARD

No deviation



5.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz



5.5 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.



5.6 TEST RESULT

	Polar (H/V)	Frequenc y (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV /m)	Detec tor Type	Result
802.11b	LowChannel 2412MHz									
	H	2390.00	54.95	30.22	4.85	23.98	53.56	74.00	PK	PASS
	H	2390.00	44.61	30.22	4.85	23.98	43.22	54.00	AV	PASS
	H	2400.00	53.82	30.22	4.85	23.98	52.43	74.00	PK	PASS
	H	2400.00	44.61	30.22	4.85	23.98	43.22	54.00	AV	PASS
	V	2390.00	54.91	30.22	4.85	23.98	53.52	74.00	PK	PASS
	V	2390.00	44.91	30.22	4.85	23.98	43.52	54.00	AV	PASS
	V	2400.00	54.52	30.22	4.85	23.98	53.13	74.00	PK	PASS
	V	2400.00	44.87	30.22	4.85	23.98	43.48	54.00	AV	PASS
	HighChannel 2462MHz									
	H	2483.50	54.05	30.22	4.85	23.98	52.66	74.00	PK	PASS
	H	2483.50	44.06	30.22	4.85	23.98	42.67	54.00	AV	PASS
	H	2500.00	53.43	30.22	4.85	23.98	52.04	74.00	PK	PASS
	H	2500.00	44.45	30.22	4.85	23.98	43.06	54.00	AV	PASS
	V	2483.50	54.09	30.22	4.85	23.98	52.70	74.00	PK	PASS
	V	2483.50	44.51	30.22	4.85	23.98	43.12	54.00	AV	PASS
	V	2500.00	53.45	30.22	4.85	23.98	52.06	74.00	PK	PASS
	V	2500.00	44.41	30.22	4.85	23.98	43.02	54.00	AV	PASS
802.11g	LowChannel 2412MHz									
	H	2390.00	53.03	30.22	4.85	23.98	51.64	74.00	PK	PASS
	H	2390.00	44.52	30.22	4.85	23.98	43.13	54.00	AV	PASS
	H	2400.00	54.08	30.22	4.85	23.98	52.69	74.00	PK	PASS
	H	2400.00	44.08	30.22	4.85	23.98	42.69	54.00	AV	PASS
	V	2390.00	54.05	30.22	4.85	23.98	52.66	74.00	PK	PASS
	V	2390.00	44.22	30.22	4.85	23.98	42.83	54.00	AV	PASS
	V	2400.00	53.04	30.22	4.85	23.98	51.65	74.00	PK	PASS
	V	2400.00	44.98	30.22	4.85	23.98	43.59	54.00	AV	PASS
	High Channel 2462MHz									
	H	2483.50	54.65	30.22	4.85	23.98	53.26	74.00	PK	PASS
	H	2483.50	44.50	30.22	4.85	23.98	43.11	54.00	AV	PASS
	H	2500.00	54.97	30.22	4.85	23.98	53.58	74.00	PK	PASS
	H	2500.00	44.48	30.22	4.85	23.98	43.09	54.00	AV	PASS
	V	2483.50	53.03	30.22	4.85	23.98	51.64	74.00	PK	PASS
	V	2483.50	44.22	30.22	4.85	23.98	42.83	54.00	AV	PASS
	V	2500.00	54.53	30.22	4.85	23.98	53.14	74.00	PK	PASS
	V	2500.00	44.05	30.22	4.85	23.98	42.66	54.00	AV	PASS
802.11n20	LowChannel 2412MHz									
	H	2390.00	53.43	30.22	4.85	23.98	52.04	74.00	PK	PASS
	H	2390.00	44.62	30.22	4.85	23.98	43.23	54.00	AV	PASS
	H	2400.00	54.97	30.22	4.85	23.98	53.58	74.00	PK	PASS
	H	2400.00	44.41	30.22	4.85	23.98	43.02	54.00	AV	PASS
	V	2390.00	53.25	30.22	4.85	23.98	51.86	74.00	PK	PASS
	V	2390.00	44.82	30.22	4.85	23.98	43.43	54.00	AV	PASS
	V	2400.00	54.12	30.22	4.85	23.98	52.73	74.00	PK	PASS
	V	2400.00	44.32	30.22	4.85	23.98	42.93	54.00	AV	PASS
	High Channel 2462MHz									
	H	2483.50	53.77	30.22	4.85	23.98	52.38	74.00	Pk	PASS
	H	2483.50	44.22	30.22	4.85	23.98	42.83	54.00	AV	PASS
	H	2500.00	54.81	30.22	4.85	23.98	53.42	74.00	Pk	PASS
	H	2500.00	44.95	30.22	4.85	23.98	43.56	54.00	AV	PASS
	V	2483.50	53.69	30.22	4.85	23.98	52.30	74.00	Pk	PASS
	V	2483.50	44.38	30.22	4.85	23.98	42.99	54.00	AV	PASS
	V	2500.00	53.85	30.22	4.85	23.98	52.46	74.00	Pk	PASS



802.11n40	V	2500.00	44.14	30.22	4.85	23.98	42.75	54.00	AV	PASS
	LowChannel 2422MHz									
	H	2390.00	53.94	30.22	4.85	23.98	52.55	74.00	PK	PASS
	H	2390.00	44.92	30.22	4.85	23.98	43.53	54.00	AV	PASS
	H	2400.00	54.43	30.22	4.85	23.98	53.04	74.00	PK	PASS
	H	2400.00	44.11	30.22	4.85	23.98	42.72	54.00	AV	PASS
	V	2390.00	53.44	30.22	4.85	23.98	52.05	74.00	PK	PASS
	V	2390.00	44.13	30.22	4.85	23.98	42.74	54.00	AV	PASS
	V	2400.00	53.98	30.22	4.85	23.98	52.59	74.00	PK	PASS
	V	2400.00	44.75	30.22	4.85	23.98	43.36	54.00	AV	PASS
	High Channel 2452MHz									
	H	2483.50	53.70	30.22	4.85	23.98	52.31	74.00	PK	PASS
	H	2483.50	44.51	30.22	4.85	23.98	43.12	54.00	AV	PASS
	H	2500.00	53.21	30.22	4.85	23.98	51.82	74.00	PK	PASS
	H	2500.00	44.74	30.22	4.85	23.98	43.35	54.00	AV	PASS
	V	2483.50	54.88	30.22	4.85	23.98	53.49	74.00	PK	PASS
	V	2483.50	44.22	30.22	4.85	23.98	42.83	54.00	AV	PASS
	V	2500.00	54.63	30.22	4.85	23.98	53.24	74.00	PK	PASS
	V	2500.00	44.49	30.22	4.85	23.98	43.10	54.00	AV	PASS

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit



6. POWER SPECTRAL DENSITY TEST

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2013 and KDB558074 D01DTS Meas Guidancev05r02

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8dBm/3kHz	2400-2483.5	PASS

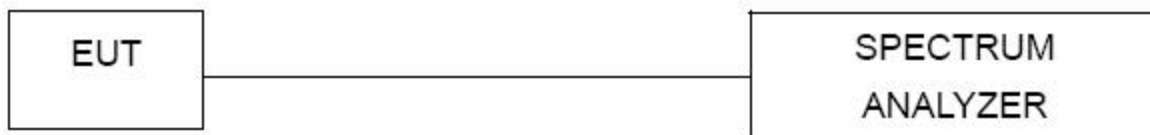
6.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
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 within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

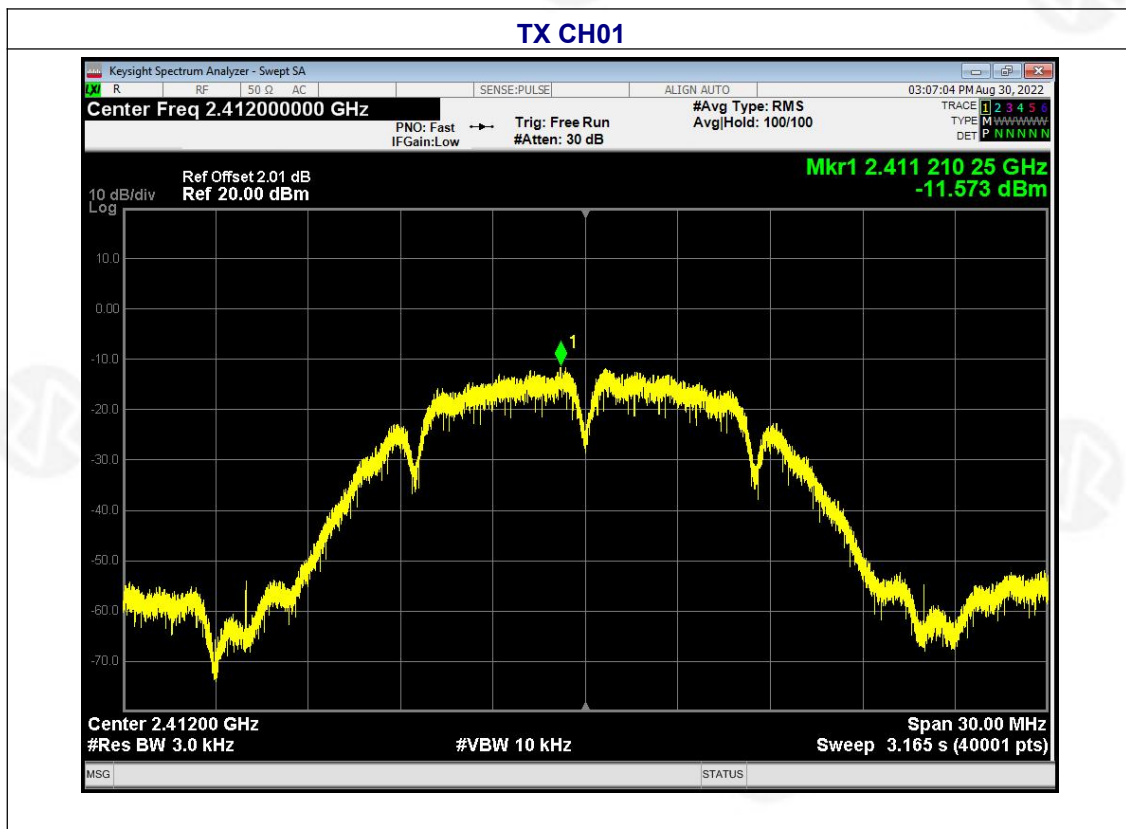
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.



6.6 TEST RESULT

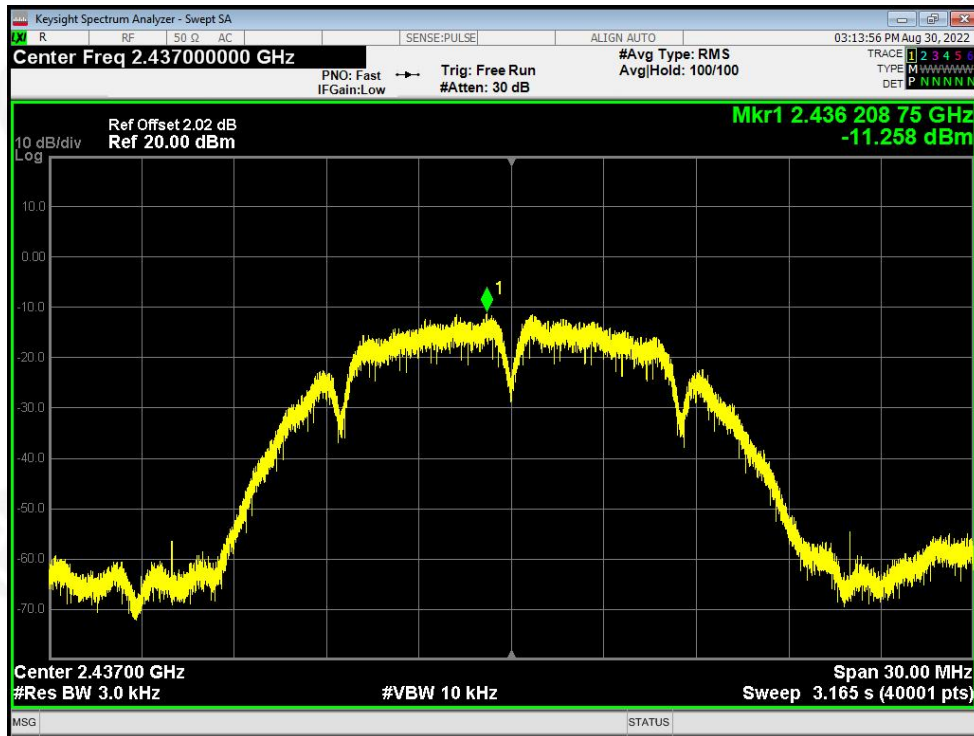
Temperature :	26°C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	AC 120V
Test Mode :	TX b Mode		

Frequency	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-11.573	8	PASS
2437 MHz	-11.258	8	PASS
2462 MHz	-10.59	8	PASS

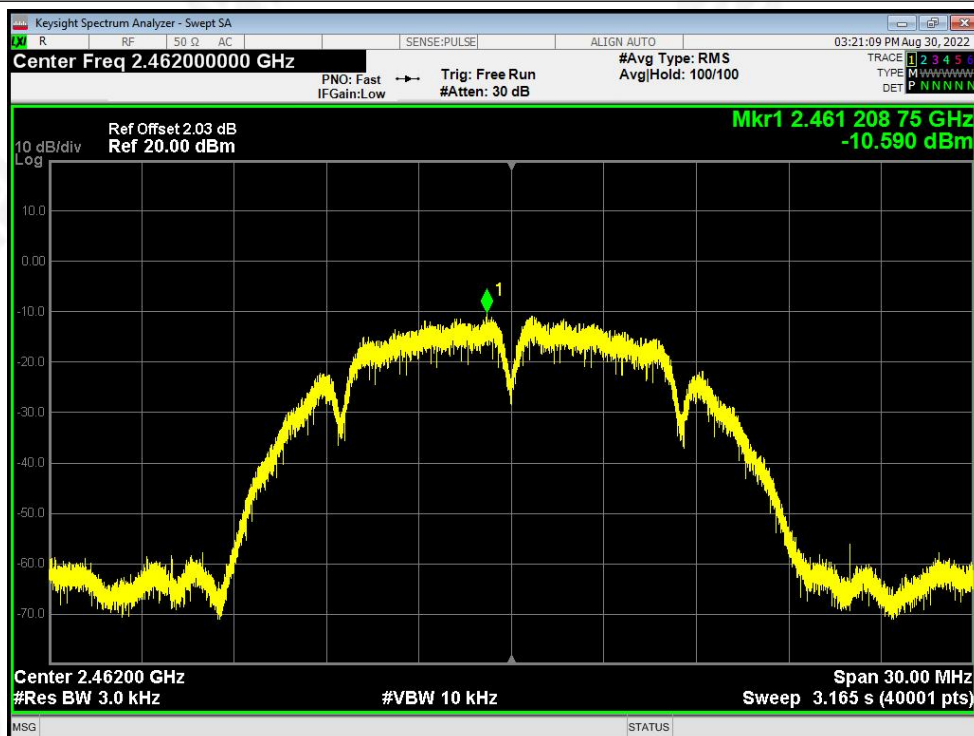




TX CH06



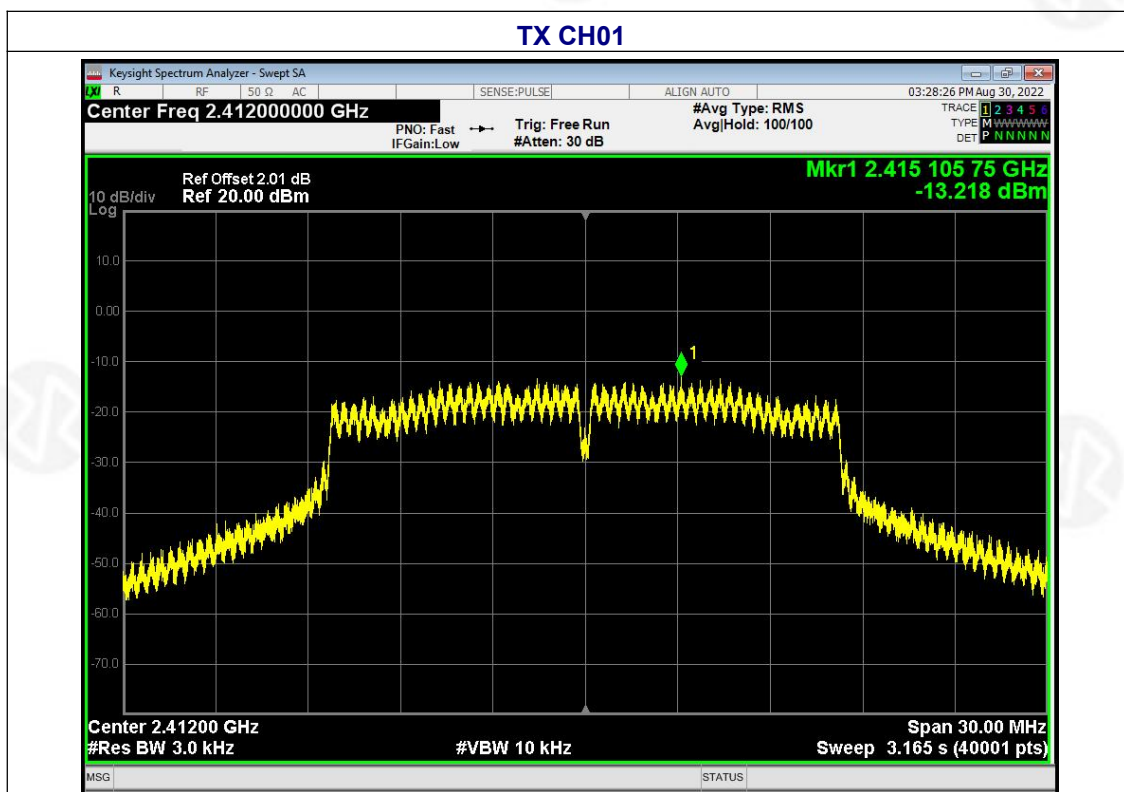
TX CH11





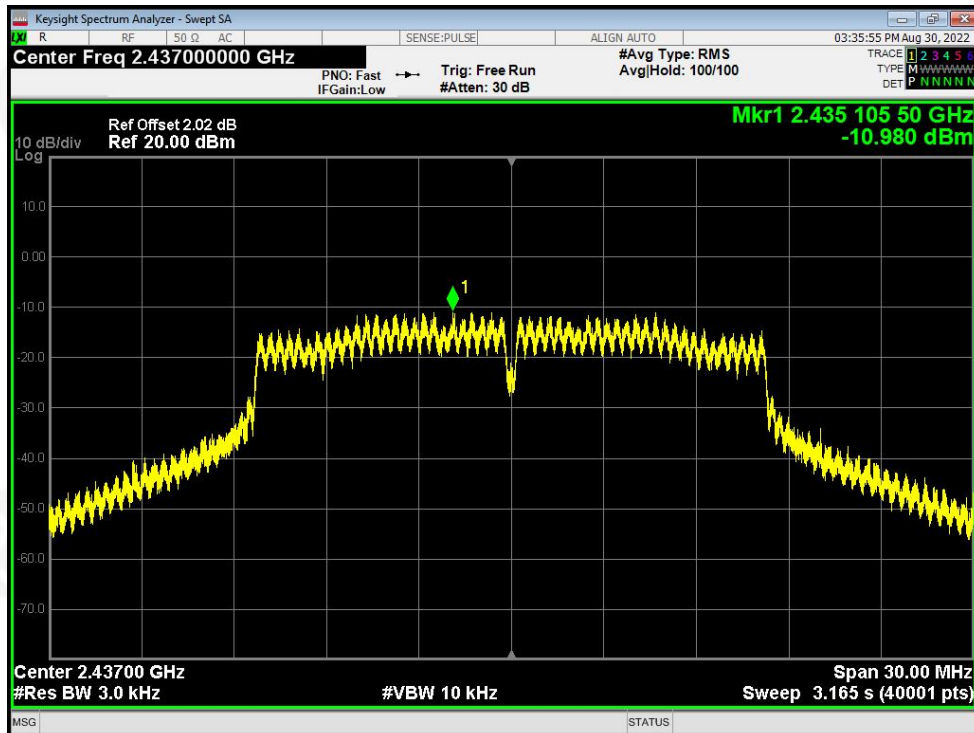
Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	AC 120V
Test Mode :	TX g Mode		

Frequency	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-13.218	8	PASS
2437 MHz	-10.98	8	PASS
2462 MHz	-13.732	8	PASS

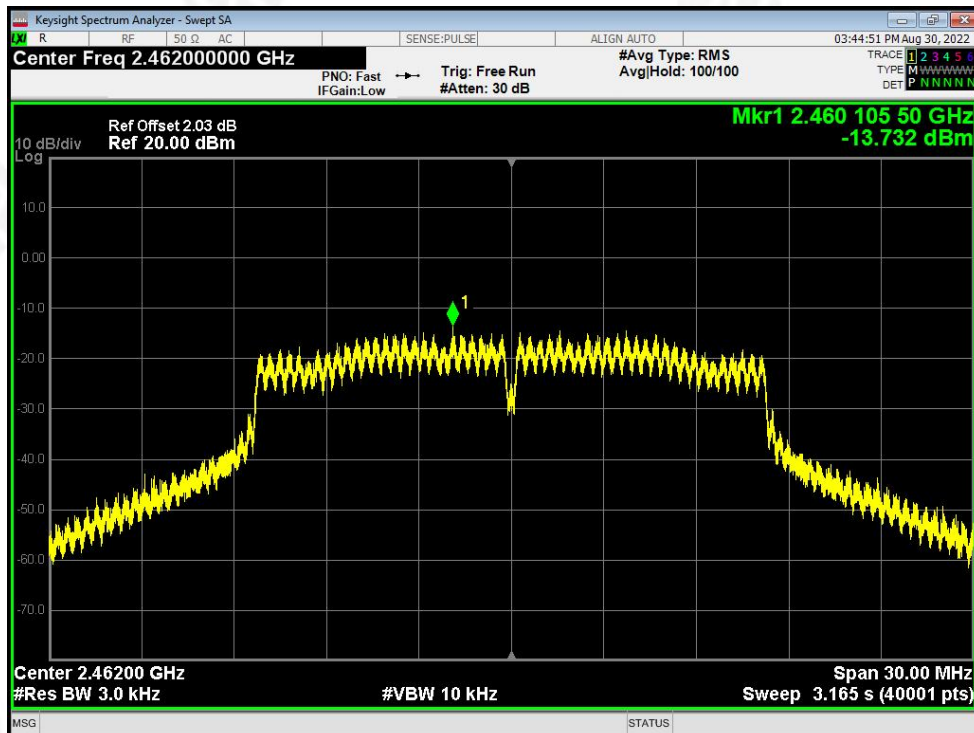




TX CH06



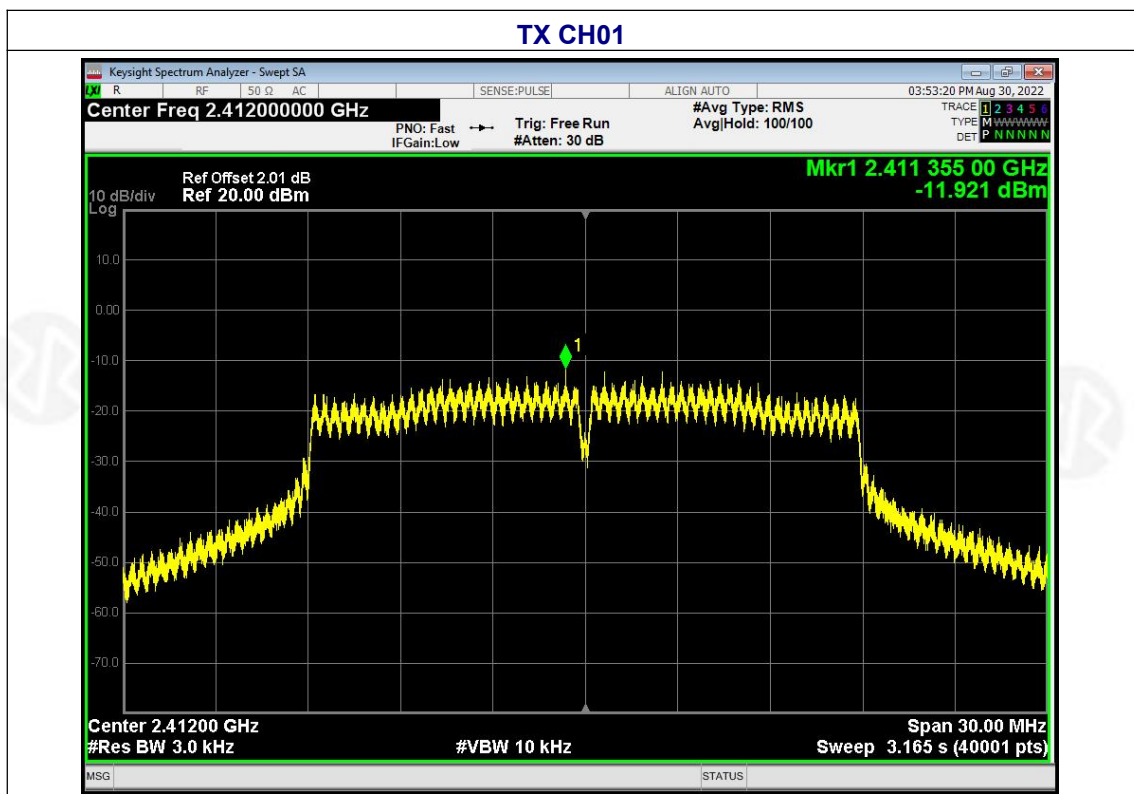
TX CH11





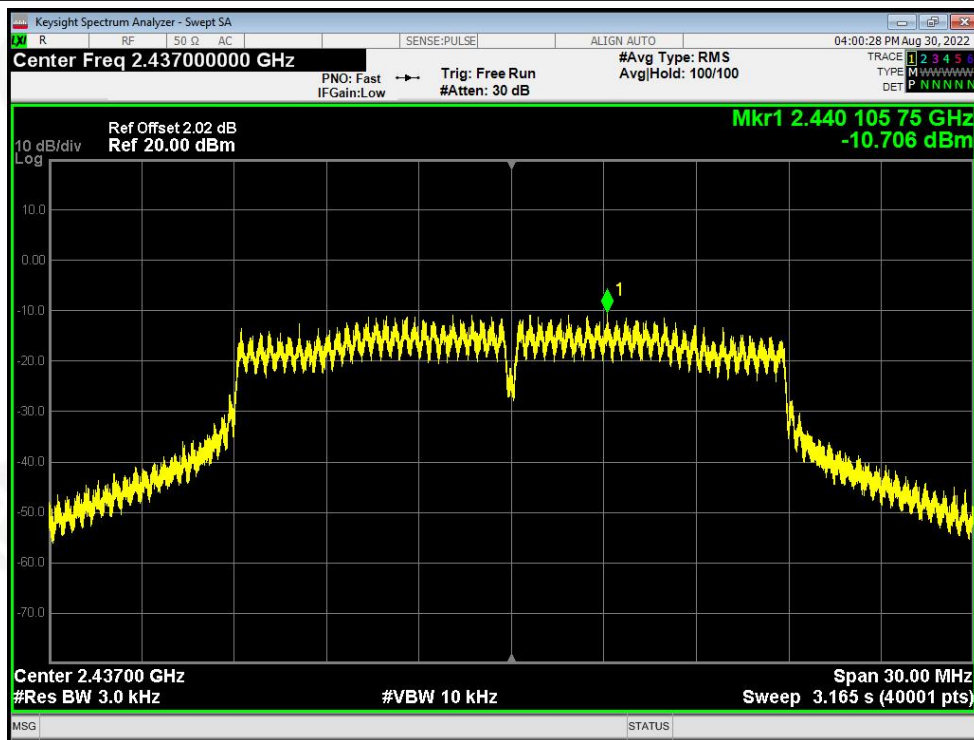
Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	AC 120V
Test Mode :	TX n Mode(20M)		

Frequency	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-11.921	8	PASS
2437 MHz	-10.706	8	PASS
2462 MHz	-12.782	8	PASS





TX CH06



TX CH11

