

FCC PART 15C
Measurement and Test Report
For
Huizhou Dayawan NORCO industry Co., Ltd

FCC ID:2BCK9-BIS-6360ARA

FCC Rule(s)/Methods:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 ANSI C63.10:2013
Product Description:	Embedded Computer
Trademark	/
Model/Type reference.:	BIS-6360ARA-A10, BIS-6360ARA-A10, BIS-6360ARA-A20, BIS-6360ARA-A30, BIS-6360ARA-A40, BIS-6360ARA-A50, BIS-6360ARA-A60, BIS-6380A10, BIS-6380A20, BIS-6380A30, BIS-6380A40, BIS-6380A50, BIS-6380A60, BIS-6380F10, BIS-6380F20, BIS-6380F30, BIS-6380F40, BIS-6390ARA-BYB, BIS-6390ARA-A30, BIS-6390ARA-A10, BIS-6390ARA-A20, BIS-6390ARA-A40, BIS-6390ARA-A50
Report No.:	BSL2305318275030F-1
Date of receipt of test item :	Jul. 28, 2023
Date of sampling :	Jul. 28, 2023
Tested Date:	Jul. 28, 2023 to Aug. 07, 2023
Issued Date:	Aug. 07, 2023
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1. VERSION

ReportNo.	Version	Description	Approved
BSL2305318275030F-1	Rev.01	Initial issue of report	Aug. 07, 2023

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C KDB 558074 D01			
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	N/A	
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 15.247(d)	Conducted Spurious Emission	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

BSL TESTING CO., LTD

Add. : 1/F, Building B, Xinshidai GR Park, Shiyao Street, Bao'an District, Shenzhen, Shiyao Street, Bao'an District, Shenzhen, Guangdong, 518052, People's Republic of China

FCC Test Firm Registration Number: 562200

Designation Number: CN1338

IC Registered No.: 11093A

Designation Number: CN0019

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$ · where expanded 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	3m chamber Radiated spurious emission(9KHz-30MHz)	U=4.5dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.8dB
3	3m chamber Radiated spurious emission(1GHz-6GHz)	U=4.9dB
4	3m chamber Radiated spurious emission(6GHz-40GHz)	U=5.0dB
5	Conducted disturbance	U=3.2dB
6	RF Band Edge	U=1.68dB
7	RF power conducted	U=1.86dB
8	RF conducted Spurious Emission	U=2.2dB
9	RF Occupied Bandwidth	U=1.8dB
10	RF Power Spectral Density	U=1.75dB
11	humidity uncertainty	U=5.3%
12	Temperature uncertainty	U=0.59°C

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Applicant:	Huizhou Dayawan NORCO industry Co.,Ltd
Address of applicant:	No.4,Technical Industry Zone,West End of Dayawan, Huizhou, Guangdong, China
Manufacturer:	Huizhou Dayawan NORCO industry Co.,Ltd
Address of manufacturer:	No.4,Technical Industry Zone,West End of Dayawan ,Huizhou, Guangdong, China
Product Name:	Embedded Computer
Model No.:	BIS-6360ARA-A10, BIS-6360ARA-A10, BIS-6360ARA-A20, BIS-6360ARA-A30, BIS-6360ARA-A40, BIS-6360ARA-A50, BIS-6360ARA-A60, BIS-6380A10, BIS-6380A20, BIS-6380A30, BIS-6380A40, BIS-6380A50, BIS-6380A60, BIS-6380F10, BIS-6380F20, BIS-6380F30, BIS-6380F40, BIS-6390ARA-BYB, BIS-6390ARA-A30, BIS-6390ARA-A10, BIS-6390ARA-A20, BIS-6390ARA-A40, BIS-6390ARA-A50
Model Different.:	Only model name is different, BIS-6360ARA-A10 is test model
Serial No.:	N/A
Hardware Version:	V1.0
Software Version:	V1.0
Sample(s) Status:	Engineer sample
Channel numbers:	802.11b/802.11g /802.11n(HT20):11
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum(DSSS) 802.11g/802.11n(H20) Orthogonal Frequency Division Multiplexing(OFDM)
Antenna Type:	Glue stick antenna(External detachable)
Antenna gain:	1.82dBi
Power supply:	DC 24V from Battery
Note:	

Operation Frequency each of channel							
Channel	Frequency	Chann el	Frequency	Chann el	Frequency	Chann el	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

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

the selected channel see below:

Test channel	Frequency (MHz)	
	802.11b/802.11g/802.11n(HT20)	/
Lowest channel	2412MHz	/
Middle channel	2437MHz	/
Highest channel	2462MHz	/

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)	/
Data rate	1Mbps	6Mbps	6.5Mbps	/

Test Software	TROLiNIK
Power level setup	<13dBm

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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-2	N/A	N/A	N/A	N/A	AE

Item	Shielded Type	Ferrite Core	Length	Note

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	Communication Tester	Rohde & Schwarz	CMW500	100358 Fireware: 4.43 SP4	Oct. 22, 2022	Oct. 21, 2023
2	Spectrum Analyzer	KEYSIGHT	9020A	MY55370835	Oct. 22, 2022	Oct. 21, 2023
3	Test Receiver	R&S	ESC17	US47140102 Fireware: 4.42 SP3	Oct. 22, 2022	Oct. 21, 2023
4	Signal Generator	HP	83630B	3844A01028	Oct. 22, 2022	Oct. 21, 2023
5	Signal Generator	IFR	2023A	202307/242	Oct. 22, 2022	Oct. 21, 2023
6	Amplifier	Agilent	8449B	4035A00116	Oct. 22, 2022	Oct. 21, 2023
7	Amplifier	HP	8447E	2945A02770	Oct. 22, 2022	Oct. 21, 2023
8	Broadband Antenna	SCHAFFNER	2774	2774	Feb.28,2022	Feb.27,2025
9	Bilog Antenna	Schwarzbeck	VULB9168	N/A	Feb.28,2022	Feb.27,2025
10	Horn Antenna	R&S	HF906	100253	Feb.28,2022	Feb.27,2025
11	Horn Antenna	Schwarzbeck	BBHA9170	00814	Feb.28,2022	Feb.27,2025
12	Horn Antenna	EM	EM-6961	6462	Feb.28,2022	Feb.27,2025
13	3m Semi-Anechoic Chamber	Chengyu Electron	9 (L)*6 (W)* 6 (H)	BSL086	Feb.28,2022	Feb.27,2025
14	Loop Antenna	ZHINAN	ZN30900C	20073	Feb.28,2022	Feb.27,2025
15	power meter	DARE	RPR3006W	15I00041SNO0	Feb.28,2022	Feb.27,2023
16	RF Control Unit	MWRFTest	Mw100	-	Feb.28,2022	Feb.27,2025
17	Test software	MWRFTest	V8310	-	-	-
18	Turntable	MF	MF-7802BS	N/A	\	\
19	Antenna tower	MF	MF-7802BS	N/A	\	\
20	Signal Generator	Agilent	N5182A	N/A	Oct. 22, 2022	Oct. 21, 2023

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	Oct. 22, 2022	Oct. 21, 2023
2	LISN	CYBERTEK	EM5040A	E1850400149	Oct. 22, 2022	Oct. 21, 2023
3	Test Cable	N/A	C01	N/A	Oct. 18, 2022	Oct. 17, 2023
4	Test Cable	N/A	C02	N/A	Oct. 18, 2022	Oct. 17, 2023
5	EMI Test Receiver	R&S	ESC13	101393	Oct. 17, 2022	Oct. 16, 2023
6	Absorbing Clamp	DZ	ZN23201	15034	Oct. 17, 2022	Oct. 16, 2023

7	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	\	\
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RF Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	9020A	MY55370835	Oct. 18, 2022	Oct. 17, 2023
2	MWRF Power Meter Test system	MW	MW100-RPCB	N/A	Oct. 22, 2022	Oct. 21, 2023
3	D.C. Power Supply	LongWei	TPR-6405D	N/A	\	\
4	RF Software	MW	MTS8310	V2.0.0.0	\	\

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.

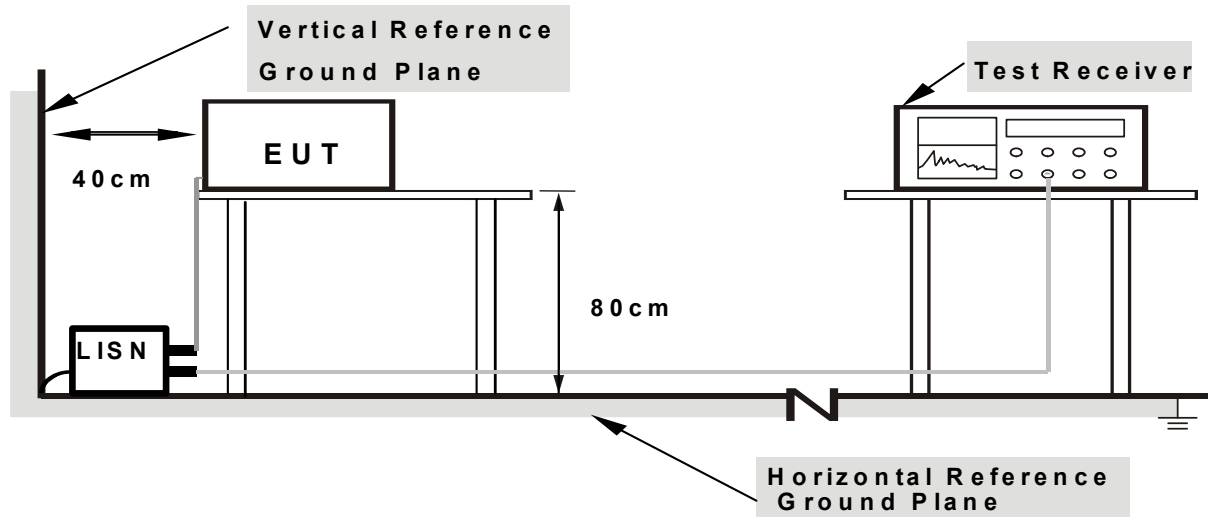
4.1.2 TEST PROCEDURE

- 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

Not Applicable

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:

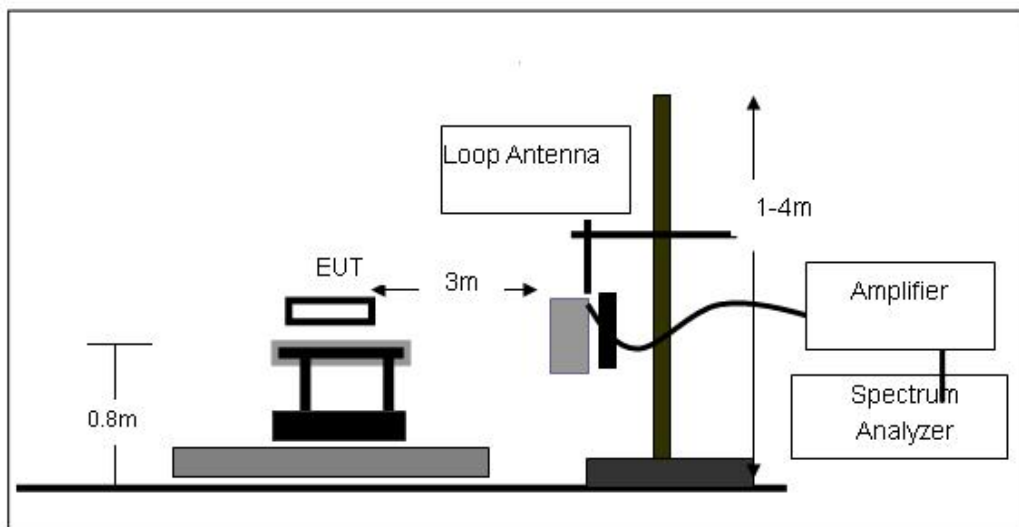
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

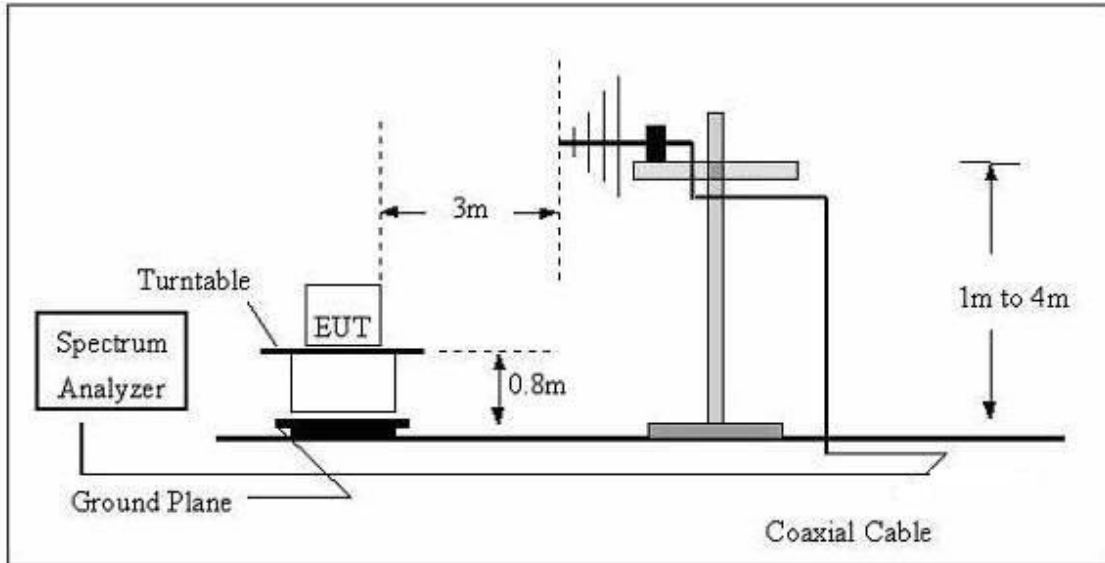
No deviation

4.2.4 TEST SETUP

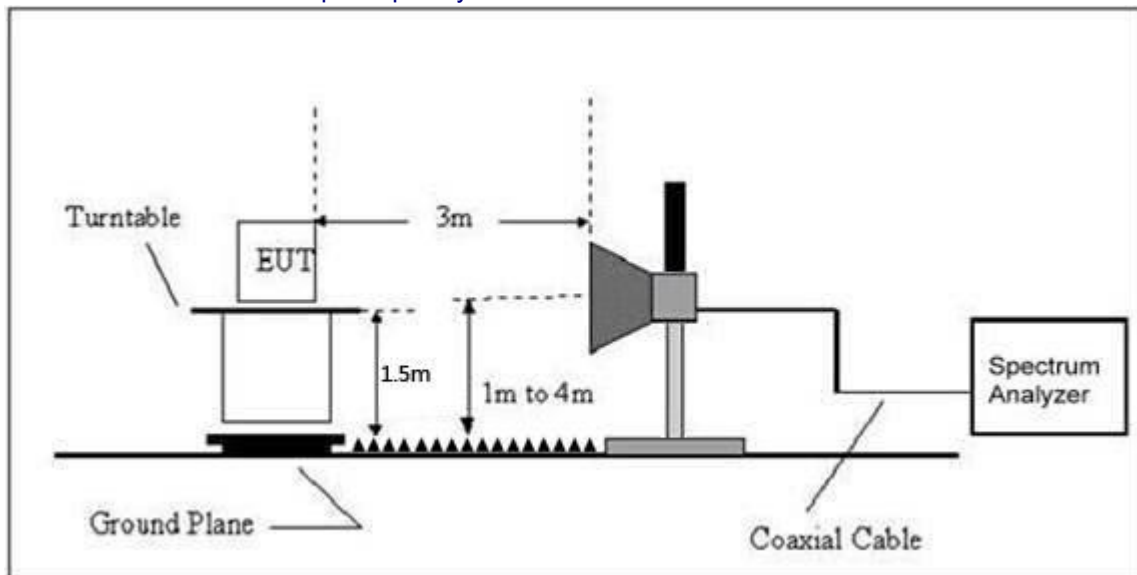
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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.

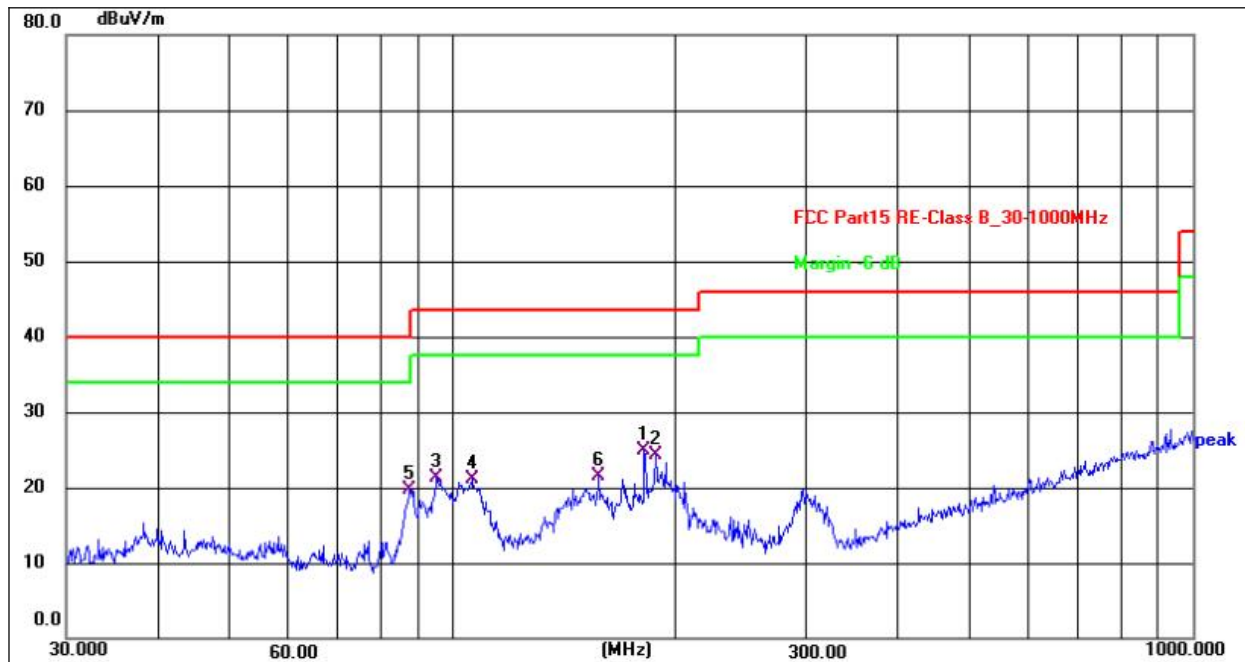
4.2.6 TEST RESULTS

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°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 24V	Test Mode	802.11b 2412MHz TX (Worst case)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	181.2834	42.96	-18.15	24.81	43.50	-18.69	QP
2	187.7530	42.93	-18.57	24.36	43.50	-19.14	QP
3	95.0930	41.24	-19.99	21.25	43.50	-22.25	QP
4	106.0126	40.50	-19.42	21.08	43.50	-22.42	QP
5	87.4177	40.12	-20.47	19.65	40.00	-20.35	QP
6	157.5588	37.49	-15.90	21.59	43.50	-21.91	QP

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 24V	Test Mode	802.11b 2412MHz TX (Worst case)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	39.4371	42.54	-15.78	26.76	40.00	-13.24	QP
2	45.6948	40.59	-16.05	24.54	40.00	-15.46	QP
3	50.7637	37.32	-16.68	20.64	40.00	-19.36	QP
4	57.1914	37.44	-17.16	20.28	40.00	-19.72	QP
5	90.5374	41.29	-20.21	21.08	43.50	-22.42	QP
6	193.7728	36.18	-18.84	17.34	43.50	-26.16	QP

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.
3. The test data shows only the worst case 802.11b and AC 120V mode

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	51.22	30.55	5.77	24.66	51.10	74.00	-22.90	Pk
V	4824.00	43.40	30.55	5.77	24.66	43.28	54.00	-10.72	AV
V	7236.00	52.11	30.33	6.32	24.55	52.65	74.00	-21.35	Pk
V	7236.00	43.93	30.33	6.32	24.55	44.47	54.00	-9.53	AV
V	9648.00	54.43	30.85	7.45	24.69	55.72	74.00	-18.28	Pk
V	9648.00	43.92	30.85	7.45	24.69	45.21	54.00	-8.79	AV
V	12060.00	52.37	31.02	8.99	25.57	55.91	74.00	-18.09	Pk
V	12060.00	43.01	31.02	8.99	25.57	46.55	54.00	-7.45	AV
H	4824.00	53.93	30.55	5.77	24.66	53.81	74.00	-20.19	Pk
H	4824.00	43.06	30.55	5.77	24.66	42.94	54.00	-11.06	AV
H	7236.00	54.30	30.33	6.32	24.55	54.84	74.00	-19.16	Pk
H	7236.00	43.97	30.33	6.32	24.55	44.51	54.00	-9.49	AV
H	9648.00	53.96	30.85	7.45	24.69	55.25	74.00	-18.75	Pk
H	9648.00	43.50	30.85	7.45	24.69	44.79	54.00	-9.21	AV
H	12060.00	51.96	31.02	8.99	25.57	55.50	74.00	-18.50	Pk
H	12060.00	43.25	31.02	8.99	25.57	46.79	54.00	-7.21	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	53.58	30.55	5.77	24.66	53.46	74.00	-20.54	Pk
V	4874.00	43.13	30.55	5.77	24.66	43.01	54.00	-10.99	AV
V	7311.00	52.93	30.33	6.32	24.55	53.47	74.00	-20.53	Pk
V	7311.00	43.21	30.33	6.32	24.55	43.75	54.00	-10.25	AV
V	9748.00	50.39	30.85	7.45	24.69	51.68	74.00	-22.32	Pk
V	9748.00	43.76	30.85	7.45	24.69	45.05	54.00	-8.95	AV
V	12185.00	50.46	31.02	8.99	25.57	54.00	74.00	-20.00	Pk
V	12185.00	43.99	31.02	8.99	25.57	47.53	54.00	-6.47	AV
H	4874.00	52.46	30.55	5.77	24.66	52.34	74.00	-21.66	Pk
H	4874.00	43.33	30.55	5.77	24.66	43.21	54.00	-10.79	AV
H	7311.00	50.90	30.33	6.32	24.55	51.44	74.00	-22.56	Pk
H	7311.00	43.52	30.33	6.32	24.55	44.06	54.00	-9.94	AV
H	9748.00	54.08	30.85	7.45	24.69	55.37	74.00	-18.63	Pk
H	9748.00	43.07	30.85	7.45	24.69	44.36	54.00	-9.64	AV
H	12185.00	50.26	31.02	8.99	25.57	53.80	74.00	-20.20	Pk
H	12185.00	43.59	31.02	8.99	25.57	47.13	54.00	-6.87	AV

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	51.90	30.55	5.77	24.66	51.78	74.00	-22.22	Pk
V	4924.00	43.88	30.55	5.77	24.66	43.76	54.00	-10.24	AV
V	7386.00	51.55	30.33	6.32	24.55	52.09	74.00	-21.91	Pk
V	7386.00	43.79	30.33	6.32	24.55	44.33	54.00	-9.67	AV
V	9848.00	51.83	30.85	7.45	24.69	53.12	74.00	-20.88	Pk
V	9848.00	43.82	30.85	7.45	24.69	45.11	54.00	-8.89	AV
V	12310.00	51.04	31.02	8.99	25.57	54.58	74.00	-19.42	Pk
V	12310.00	43.28	31.02	8.99	25.57	46.82	54.00	-7.18	AV
H	4924.00	52.70	30.55	5.77	24.66	52.58	74.00	-21.42	Pk
H	4924.00	43.73	30.55	5.77	24.66	43.61	54.00	-10.39	AV
H	7386.00	53.78	30.33	6.32	24.55	54.32	74.00	-19.68	Pk
H	7386.00	43.36	30.33	6.32	24.55	43.90	54.00	-10.10	AV
H	9848.00	51.73	30.85	7.45	24.69	53.02	74.00	-20.98	Pk
H	9848.00	43.72	30.85	7.45	24.69	45.01	54.00	-8.99	AV
H	12310.00	54.92	31.02	8.99	25.57	58.46	74.00	-15.54	Pk
H	12310.00	43.29	31.02	8.99	25.57	46.83	54.00	-7.17	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	50.22	30.55	5.77	24.66	50.10	74.00	-23.90	Pk
V	4824.00	43.09	30.55	5.77	24.66	42.97	54.00	-11.03	AV
V	7236.00	52.35	30.33	6.32	24.55	52.89	74.00	-21.11	Pk
V	7236.00	43.80	30.33	6.32	24.55	44.34	54.00	-9.66	AV
V	9648.00	50.64	30.85	7.45	24.69	51.93	74.00	-22.07	Pk
V	9648.00	43.70	30.85	7.45	24.69	44.99	54.00	-9.01	AV
V	12060.00	51.60	31.02	8.99	25.57	55.14	74.00	-18.86	Pk
V	12060.00	43.78	31.02	8.99	25.57	47.32	54.00	-6.68	AV
H	4824.00	54.18	30.55	5.77	24.66	54.06	74.00	-19.94	Pk
H	4824.00	43.85	30.55	5.77	24.66	43.73	54.00	-10.27	AV
H	7236.00	54.11	30.33	6.32	24.55	54.65	74.00	-19.35	Pk
H	7236.00	43.31	30.33	6.32	24.55	43.85	54.00	-10.15	AV
H	9648.00	50.08	30.85	7.45	24.69	51.37	74.00	-22.63	Pk
H	9648.00	43.61	30.85	7.45	24.69	44.90	54.00	-9.10	AV
H	12060.00	53.47	31.02	8.99	25.57	57.01	74.00	-16.99	Pk
H	12060.00	43.05	31.02	8.99	25.57	46.59	54.00	-7.41	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	51.75	30.55	5.77	24.66	51.63	74.00	-22.37	Pk
V	4874.00	43.84	30.55	5.77	24.66	43.72	54.00	-10.28	AV
V	7311.00	54.59	30.33	6.32	24.55	55.13	74.00	-18.87	Pk
V	7311.00	43.73	30.33	6.32	24.55	44.27	54.00	-9.73	AV
V	9748.00	51.15	30.85	7.45	24.69	52.44	74.00	-21.56	Pk
V	9748.00	43.94	30.85	7.45	24.69	45.23	54.00	-8.77	AV
V	12185.00	51.62	31.02	8.99	25.57	55.16	74.00	-18.84	Pk
V	12185.00	43.12	31.02	8.99	25.57	46.66	54.00	-7.34	AV
H	4874.00	53.58	30.55	5.77	24.66	53.46	74.00	-20.54	Pk
H	4874.00	43.14	30.55	5.77	24.66	43.02	54.00	-10.98	AV
H	7311.00	51.62	30.33	6.32	24.55	52.16	74.00	-21.84	Pk
H	7311.00	43.17	30.33	6.32	24.55	43.71	54.00	-10.29	AV
H	9748.00	53.30	30.85	7.45	24.69	54.59	74.00	-19.41	Pk
H	9748.00	43.44	30.85	7.45	24.69	44.73	54.00	-9.27	AV
H	12185.00	51.80	31.02	8.99	25.57	55.34	74.00	-18.66	Pk
H	12185.00	43.92	31.02	8.99	25.57	47.46	54.00	-6.54	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)	
High Channel:2462MHz									
V	4924.00	52.82	30.55	5.77	24.66	52.70	74.00	-21.30	Pk
V	4924.00	43.18	30.55	5.77	24.66	43.06	54.00	-10.94	AV
V	7386.00	51.53	30.33	6.32	24.55	52.07	74.00	-21.93	Pk
V	7386.00	43.29	30.33	6.32	24.55	43.83	54.00	-10.17	AV
V	9848.00	54.02	30.85	7.45	24.69	55.31	74.00	-18.69	Pk
V	9848.00	43.39	30.85	7.45	24.69	44.68	54.00	-9.32	AV
V	12310.00	50.50	31.02	8.99	25.57	54.04	74.00	-19.96	Pk
V	12310.00	43.42	31.02	8.99	25.57	46.96	54.00	-7.04	AV
H	4924.00	54.54	30.55	5.77	24.66	54.42	74.00	-19.58	Pk
H	4924.00	43.82	30.55	5.77	24.66	43.70	54.00	-10.30	AV
H	7386.00	54.41	30.33	6.32	24.55	54.95	74.00	-19.05	Pk
H	7386.00	43.06	30.33	6.32	24.55	43.60	54.00	-10.40	AV
H	9848.00	50.07	30.85	7.45	24.69	51.36	74.00	-22.64	Pk
H	9848.00	43.69	30.85	7.45	24.69	44.98	54.00	-9.02	AV
H	12310.00	52.36	31.02	8.99	25.57	55.90	74.00	-18.10	Pk
H	12310.00	43.96	31.02	8.99	25.57	47.50	54.00	-6.50	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	4924.00	51.93	30.55	5.77	24.66	51.81	74.00	-22.19	Pk
V	4924.00	43.19	30.55	5.77	24.66	43.07	54.00	-10.93	AV
V	7386.00	52.24	30.33	6.32	24.55	52.78	74.00	-21.22	Pk
V	7386.00	43.95	30.33	6.32	24.55	44.49	54.00	-9.51	AV
V	9848.00	54.71	30.85	7.45	24.69	56.00	74.00	-18.00	Pk
V	9848.00	43.57	30.85	7.45	24.69	44.86	54.00	-9.14	AV
V	12310.00	51.53	31.02	8.99	25.57	55.07	74.00	-18.93	Pk
V	12310.00	43.89	31.02	8.99	25.57	47.43	54.00	-6.57	AV
H	4924.00	53.14	30.55	5.77	24.66	53.02	74.00	-20.98	Pk
H	4924.00	43.40	30.55	5.77	24.66	43.28	54.00	-10.72	AV
H	7386.00	52.12	30.33	6.32	24.55	52.66	74.00	-21.34	Pk
H	7386.00	43.16	30.33	6.32	24.55	43.70	54.00	-10.30	AV
H	9848.00	50.06	30.85	7.45	24.69	51.35	74.00	-22.65	Pk
H	9848.00	43.21	30.85	7.45	24.69	44.50	54.00	-9.50	AV
H	12310.00	50.99	31.02	8.99	25.57	54.53	74.00	-19.47	Pk
H	12310.00	43.91	31.02	8.99	25.57	47.45	54.00	-6.55	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	52.90	30.55	5.77	24.66	52.78	74.00	-21.22	Pk
V	4874.00	43.65	30.55	5.77	24.66	43.53	54.00	-10.47	AV
V	7311.00	50.73	30.33	6.32	24.55	51.27	74.00	-22.73	Pk
V	7311.00	43.77	30.33	6.32	24.55	44.31	54.00	-9.69	AV
V	9748.00	51.44	30.85	7.45	24.69	52.73	74.00	-21.27	Pk
V	9748.00	43.18	30.85	7.45	24.69	44.47	54.00	-9.53	AV
V	12185.00	50.44	31.02	8.99	25.57	53.98	74.00	-20.02	Pk
V	12185.00	43.39	31.02	8.99	25.57	46.93	54.00	-7.07	AV
H	4874.00	50.96	30.55	5.77	24.66	50.84	74.00	-23.16	Pk
H	4874.00	43.61	30.55	5.77	24.66	43.49	54.00	-10.51	AV
H	7311.00	50.33	30.33	6.32	24.55	50.87	74.00	-23.13	Pk
H	7311.00	43.97	30.33	6.32	24.55	44.51	54.00	-9.49	AV
H	9748.00	53.22	30.85	7.45	24.69	54.51	74.00	-19.49	Pk
H	9748.00	43.69	30.85	7.45	24.69	44.98	54.00	-9.02	AV
H	12185.00	54.82	31.02	8.99	25.57	58.36	74.00	-15.64	Pk
H	12185.00	43.60	31.02	8.99	25.57	47.14	54.00	-6.86	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)	
High Channel:2462MHz									
V	4924.00	53.30	30.55	5.77	24.66	53.18	74.00	-20.82	Pk
V	4924.00	44.00	30.55	5.77	24.66	43.88	54.00	-10.12	AV
V	7386.00	52.98	30.33	6.32	24.55	53.52	74.00	-20.48	Pk
V	7386.00	43.27	30.33	6.32	24.55	43.81	54.00	-10.19	AV
V	9848.00	50.21	30.85	7.45	24.69	51.50	74.00	-22.50	Pk
V	9848.00	43.39	30.85	7.45	24.69	44.68	54.00	-9.32	AV
V	12310.00	50.71	31.02	8.99	25.57	54.25	74.00	-19.75	Pk
V	12310.00	43.84	31.02	8.99	25.57	47.38	54.00	-6.62	AV
H	4924.00	50.52	30.55	5.77	24.66	50.40	74.00	-23.60	Pk
H	4924.00	43.70	30.55	5.77	24.66	43.58	54.00	-10.42	AV
H	7386.00	53.03	30.33	6.32	24.55	53.57	74.00	-20.43	Pk
H	7386.00	43.99	30.33	6.32	24.55	44.53	54.00	-9.47	AV
H	9848.00	54.66	30.85	7.45	24.69	55.95	74.00	-18.05	Pk
H	9848.00	43.19	30.85	7.45	24.69	44.48	54.00	-9.52	AV
H	12310.00	50.03	31.02	8.99	25.57	53.57	74.00	-20.43	Pk
H	12310.00	43.03	31.02	8.99	25.57	46.57	54.00	-7.43	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 EMISSIONMEASUREMENT**5.1 TEST REQUIREMENT:**

Test Requirement:	FCC Part15 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	Peak	1MHz	10Hz	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:

- a. 1. 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.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a 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 and the rota 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 bestopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dBmargin would be re-tested one by one using peak, quasi-peak or average method as specified and then reportedin a data sheet.
- g. Test the EUT in the lowest channel,the Highest channel

Note:

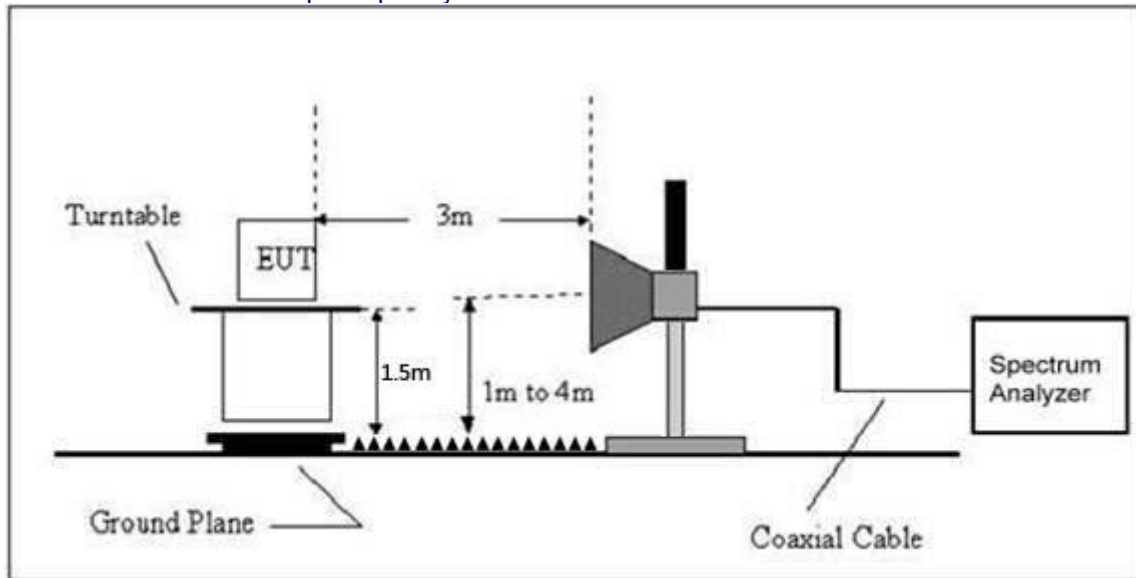
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

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	53.04	30.22	4.85	23.98	51.65	74.00	Pk	PASS
	H	2390.00	44.76	30.22	4.85	23.98	43.37	54.00	AV	PASS
	H	2400.00	54.67	30.22	4.85	23.98	53.28	74.00	Pk	PASS
	H	2400.00	44.52	30.22	4.85	23.98	43.13	54.00	AV	PASS
	V	2390.00	53.75	30.22	4.85	23.98	52.36	74.00	Pk	PASS
	V	2390.00	44.43	30.22	4.85	23.98	43.04	54.00	AV	PASS
	V	2400.00	53.12	30.22	4.85	23.98	51.73	74.00	Pk	PASS
	V	2400.00	44.73	30.22	4.85	23.98	43.34	54.00	AV	PASS
	HighChannel 2462MHz									
	H	2483.50	54.37	30.22	4.85	23.98	52.98	74.00	Pk	PASS
	H	2483.50	44.83	30.22	4.85	23.98	43.44	54.00	AV	PASS
	H	2500.00	54.78	30.22	4.85	23.98	53.39	74.00	Pk	PASS
	H	2500.00	44.49	30.22	4.85	23.98	43.10	54.00	AV	PASS
	V	2483.50	54.59	30.22	4.85	23.98	53.20	74.00	Pk	PASS
	V	2483.50	44.51	30.22	4.85	23.98	43.12	54.00	AV	PASS
	V	2500.00	53.09	30.22	4.85	23.98	51.70	74.00	Pk	PASS
	V	2500.00	44.98	30.22	4.85	23.98	43.59	54.00	AV	PASS
802.11g	LowChannel 2412MHz									
	H	2390.00	53.80	30.22	4.85	23.98	52.41	74.00	Pk	PASS
	H	2390.00	44.93	30.22	4.85	23.98	43.54	54.00	AV	PASS
	H	2400.00	54.80	30.22	4.85	23.98	53.41	74.00	Pk	PASS
	H	2400.00	44.80	30.22	4.85	23.98	43.41	54.00	AV	PASS
	V	2390.00	53.50	30.22	4.85	23.98	52.11	74.00	Pk	PASS
	V	2390.00	44.04	30.22	4.85	23.98	42.65	54.00	AV	PASS
	V	2400.00	53.50	30.22	4.85	23.98	52.11	74.00	Pk	PASS
	V	2400.00	44.74	30.22	4.85	23.98	43.35	54.00	AV	PASS
	High Channel 2462MHz									
	H	2483.50	54.36	30.22	4.85	23.98	52.97	74.00	Pk	PASS
	H	2483.50	44.16	30.22	4.85	23.98	42.77	54.00	AV	PASS
	H	2500.00	54.78	30.22	4.85	23.98	53.39	74.00	Pk	PASS
	H	2500.00	44.47	30.22	4.85	23.98	43.08	54.00	AV	PASS
	V	2483.50	54.37	30.22	4.85	23.98	52.98	74.00	Pk	PASS
	V	2483.50	44.61	30.22	4.85	23.98	43.22	54.00	AV	PASS
	V	2500.00	53.95	30.22	4.85	23.98	52.56	74.00	Pk	PASS
	V	2500.00	44.72	30.22	4.85	23.98	43.33	54.00	AV	PASS
802.11n20	LowChannel 2412MHz									
	H	2390.00	54.38	30.22	4.85	23.98	52.99	74.00	Pk	PASS
	H	2390.00	44.97	30.22	4.85	23.98	43.58	54.00	AV	PASS
	H	2400.00	54.93	30.22	4.85	23.98	53.54	74.00	Pk	PASS
	H	2400.00	44.87	30.22	4.85	23.98	43.48	54.00	AV	PASS
	V	2390.00	53.14	30.22	4.85	23.98	51.75	74.00	Pk	PASS
	V	2390.00	44.96	30.22	4.85	23.98	43.57	54.00	AV	PASS
	V	2400.00	54.67	30.22	4.85	23.98	53.28	74.00	Pk	PASS
	V	2400.00	44.10	30.22	4.85	23.98	42.71	54.00	AV	PASS
	High Channel 2462MHz									
	H	2483.50	53.96	30.22	4.85	23.98	52.57	74.00	Pk	PASS
	H	2483.50	44.77	30.22	4.85	23.98	43.38	54.00	AV	PASS
	H	2500.00	53.83	30.22	4.85	23.98	52.44	74.00	Pk	PASS
	H	2500.00	44.76	30.22	4.85	23.98	43.37	54.00	AV	PASS
	V	2483.50	53.36	30.22	4.85	23.98	51.97	74.00	Pk	PASS
	V	2483.50	44.63	30.22	4.85	23.98	43.24	54.00	AV	PASS
	V	2500.00	53.97	30.22	4.85	23.98	52.58	74.00	Pk	PASS

6.POWER SPECTRAL DENSITY TEST

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB558074 D0115.247 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(SISO)	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

Refer to original report: The original report GTS20191209006-2-36, Module FCC ID: 2AL6KBL-M8821CU1

7. CHANNEL BANDWIDTH& 99% OCCUPY BANDWIDTH

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB558074 D0115.247 Meas Guidancev05r02

7.1 APPLIED PROCEDURES / LIMIT

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

7.2 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP**7.5 EUT OPERATION 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.

7.6 TEST RESULT

Refer to original report: The original report GTS20191209006-2-36, Module FCC ID: 2AL6KBL-M8821CU1

8. PEAK OUTPUT POWER TEST

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB558074 D0115.247 Meas Guidancev05r02

8.1 APPLIED PROCEDURES/LIMIT

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

8.2 TEST PROCEDURE

- a. The EUT was directly connected to the Power meter

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP**8.5 EUT OPERATION 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.

8.6 TEST RESULT

Refer to original report: The original report GTS20191209006-2-36, Module FCC ID: 2AL6KBL-M8821CU1

9. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D0115.247 Meas Guidancev05r02

9.1 APPLICABLE STANDARD

in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum 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, In addition, radiated emissions which fall in the restricted bands, as defined in§15.205(a), must also comply with the radiated emission limits specified in15.209(a).

9.2 TEST PROCEDURE

Using the following spectrum analyzer setting:

- A) Set the RBW = 100KHz.
- B) Set the VBW = 300KHz.
- C) Sweep time = auto couple.
- D) Detector function = peak.
- E) Trace mode = max hold.
- F) Allow trace to fully stabilize.

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATION 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.

9.6 TEST RESULTS

10. ANTENNA REQUIREMENT

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.	
EUT Antenna:	
The WIFI 2.4G antennas is Glue stick antenna(External detachable), the best case gain for one antennas are 1.82dBi, reference to the appendix II for details	

11. TEST SETUP PHOTO

Reference to the appendix I for details.

12. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

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