



FCC Test Report

Report No: FCS202608264W01

Issued for

Applicant:	Guangzhou Beizele Trading Co., Ltd.
Address:	Room 1103 Building 1 No.1 Jinhuan Street Nansha Street Nansha District Guangzhou City Guangdong Province China
Product Name:	RC Cars
Brand Name:	Rofun
Model Name:	Rofun Baha 10B
Series Model:	Rofun Baha 5B, Rofun LT, Rofun ELT, Rofun XLT,Rofun EXLT,Rofun BLT, Rofun EBLT, Rofun RF5,Rofun ERF5,Rofun F5,Rofun EF5, Rofun A5, Rofun EA5,Rofun 5SC,Rofun 5T,Rofun T5,Rofun 5S, Rofun Q-Baha, Rofun E-Baha, Rofun EQ6, Rofun D5,Rofun ED5,Rofun V5, Rofun EV5, Rofun ES5,Rofun WLT,YK4107,YK4082,YK4083,YK4061,YK9071,8081, 8082,8083,8084,8085,8086,8087,8088,8089,7071,7072,7073,7074,7075, 7076,7077,7078,7079
FCC ID:	2BX7O-ROFUNBAHA10B

Issued By: Flux Compliance Service Laboratory

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TEST RESULT CERTIFICATION

Applicant Name.....: Guangzhou Beizele Trading Co., Ltd.

Address.....: Room 1103 Building 1 No.1 Jinhuan Street Nansha Street Nansha District Guangzhou City Guangdong Province China

Manufacture Name.....: Guangzhou Beizele Trading Co., Ltd.

Address.....: Room 1103 Building 1 No.1 Jinhuan Street Nansha Street Nansha District Guangzhou City Guangdong Province China

Product Description

Product Name.....: RC Cars

Brand Name: Rofun

Model Name.....: Rofun Baha 10B

Series Model.....: please refer to the first page of the report

Test Standards.....: FCC Rules and Regulations Part 15 Subpart C, Section 249

Test Procedure.....: ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

This device described above has been tested FCS, 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 (s) of performance of tests.: Aug. 21, 2026~Aug. 24, 2026

Date of Issue.....: Aug. 24, 2026

Test Result.....: Pass

Tested by

:



(orange OuYang)

Reviewed by

:



(Jaydne Li)

Approved by

:



(Jack Wang)

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Revision History

Rev.	Issue Date	Effect Page	Contents
00	Aug. 24, 2026	N/A	Initial Issue

1. SUMMARY OF TEST RESULTS

FCC Part 15.249, Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	--
15.205(a), 15.209(a), 15.249(a), 15.249(c)	Radiated Spurious Emission	PASS	--
15.249(a)	Field strength of fundamental	PASS	--
15.249(d)	Band Edge Emission	PASS	--
15.215(c)	20dB Bandwidth	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 C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

1.1 TEST FACTORY

Company Name:	Flux Compliance Service Laboratory
Address:	Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan
Telephone:	+86-0769-27280901
Fax:	+86-0769-27280901
FCC Test Firm Registration Number: 514908 Designation number: CN0127 A2LA accreditation number: 5545.01	

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	RF output power, conducted	± 0.71 dB
2	Unwanted Emissions, conducted	± 2.98 dB
3	Conducted Emission (9KHz-150KHz)	± 4.13 dB
4	Conducted Emission (150KHz-30MHz)	± 4.74 dB
5	All emissions, radiated (<1G) 30MHz-1000MHz	± 3.2 dB
6	All emissions, radiated (1GHz -18GHz)	± 3.66 dB
7	All emissions, radiated (18GHz -40GHz)	± 4.31 dB
8	Occupied bandwidth	± 0.3 dB

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	RC Cars
Trade Name	Rofun
Model Name	Rofun Baha 10B
Series Model	please refer to the first page of the report
Channel List	Please refer to the Note 2.
Specification	Frequency:2402-2480MHz Modulation: GFSK Channel number: 40CH
Power Supply	DC 5V
Battery	DC 6V
Hardware version number	N/A
Software version number	N/A
Connecting I/O Port(s)	Please refer to the User's Manual

Note:

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

2. Channel List

Channel	Freq.(MHz)	Channel	Freq.(MHz)	Channel	Freq.(MHz)	Channel	Freq.(MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	monopole antenna	N/A	2	Antenna

2.2 DESCRIPTION OF THE TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

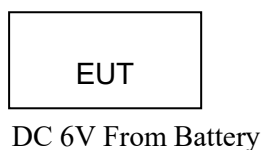
Test software: Button

The device under test (EUT) is programmed into continuous transmission mode, which realizes fixed frequency and switching channels by pressing the button.

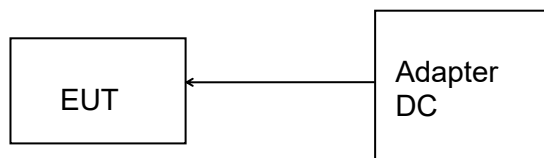
No.	Test model description
1	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
Note: 1. All the test modes can be supplied by battery, only the result of the worst case recorded in the report. GFSK mode is worst mode. 2. For radiated emission, 3 axes were chosen for testing for each applicable mode. 3. The EUT used fully charged battery when tested. 4. During the test, the duty cycle > 98%, the test voltage was tuned from 85% to 115% of the Nominal rated supply voltage, and found that the worst case was the nominal rated supply condition. So the report just shows that condition's data	

Configuration and peripherals

Radiation:



Conduction



2.3 DESCRIPTION OF NECESSARY ACCESSORIES AND 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.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
1	Adapter	XIAOMI	MDY-11-EB	N/A	this adapter is for testing only in repor

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
N/A	N/A	N/A	N/A	N/A	N/A

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) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

2.4 EQUIPMENTS LIST

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESCI	FCS-E014	2025.08.25	2026.08.24
Signal Analyzer	R&S	FSV40-N	FCS-E012	2025.08.25	2026.08.24
Active loop Antenna	HCT	6505	FCS-E030	2025.08.25	2026.08.24
Bilog Antenna	SCHWARZBECK	VULB 9168	FCS-E002	2025.08.25	2026.08.24
Horn Antenna	SCHWARZBECK	BBHA 9120D	FCS-E003	2025.08.25	2026.08.24
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	FCS-E018	2025.08.25	2026.08.24
Pre-Amplifier(0.1M-3G Hz)	EMCI	EM330N	FCS-E004	2025.08.25	2026.08.24
Pre-Amplifier (1G-18GHz)	Agilent	8449B	FCS-E013	2025.08.25	2026.08.24
Pre-Amplifier (18G-40GHz)	TERA-MW	TRLA-0400	FCS-E019	2025.08.25	2026.08.24
Temperature & Humidity	HTC-1	victor	FCS-E009	2025.08.25	2026.08.24
Testing Software	EZ-EMC(Ver.FA-03A2 RE+)				

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESRP	FCS-E001	2025.08.25	2026.08.24
LISN	R&S	ENV216	FCS-E007	2025.08.25	2026.08.24
Temperature & Humidity	HTC-1	victor	FCS-E008	2025.08.25	2026.08.24
Testing Software	EZ-EMC(EMC-COM 3A1.1)				

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
MXA SIGNAL Analyzer	Keysight	N9020A	FCS-W005	2025.08.25	2026.08.24
Open Switch and Control Unit	EZLZ	Ezlrzp	N/A	2025.08.25	2026.08.24
Spectrum Analyzer	R&S	FSV-40	101499	2025.08.25	2026.08.24
Temperature & Humidity	Yuhua	N/A	FCS-E009	2025.08.25	2026.08.24
Testing Software	LZ-RF(Ver.LzRf-3A3)				

3 CONDUCTED EMISSION MEASUREMENT

3.1 LIMIT

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

FREQUENCY (MHz)	Conducted Emission limit (dBuV)	
	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.

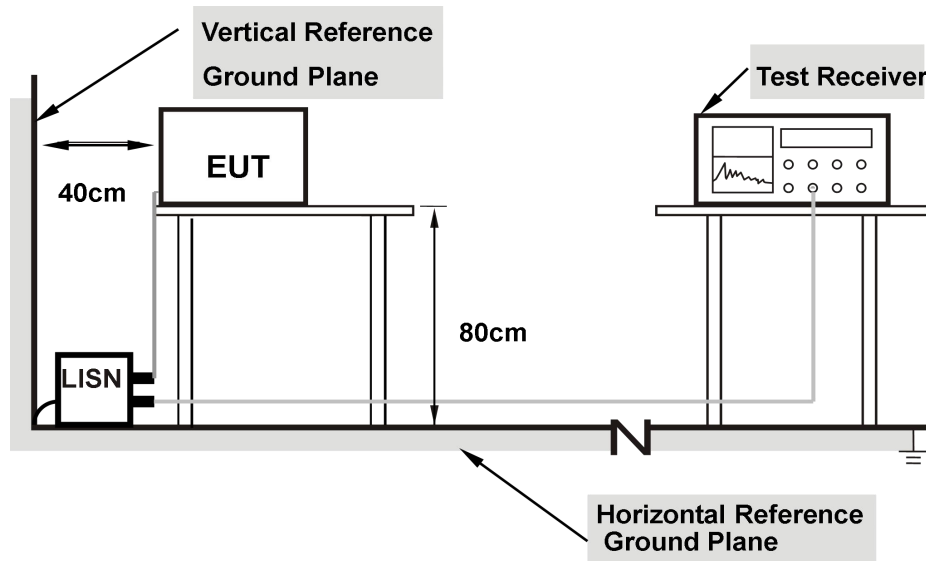
3.2 TEST PROCEDURE

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

- a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical 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.

3.3 TEST SETUP

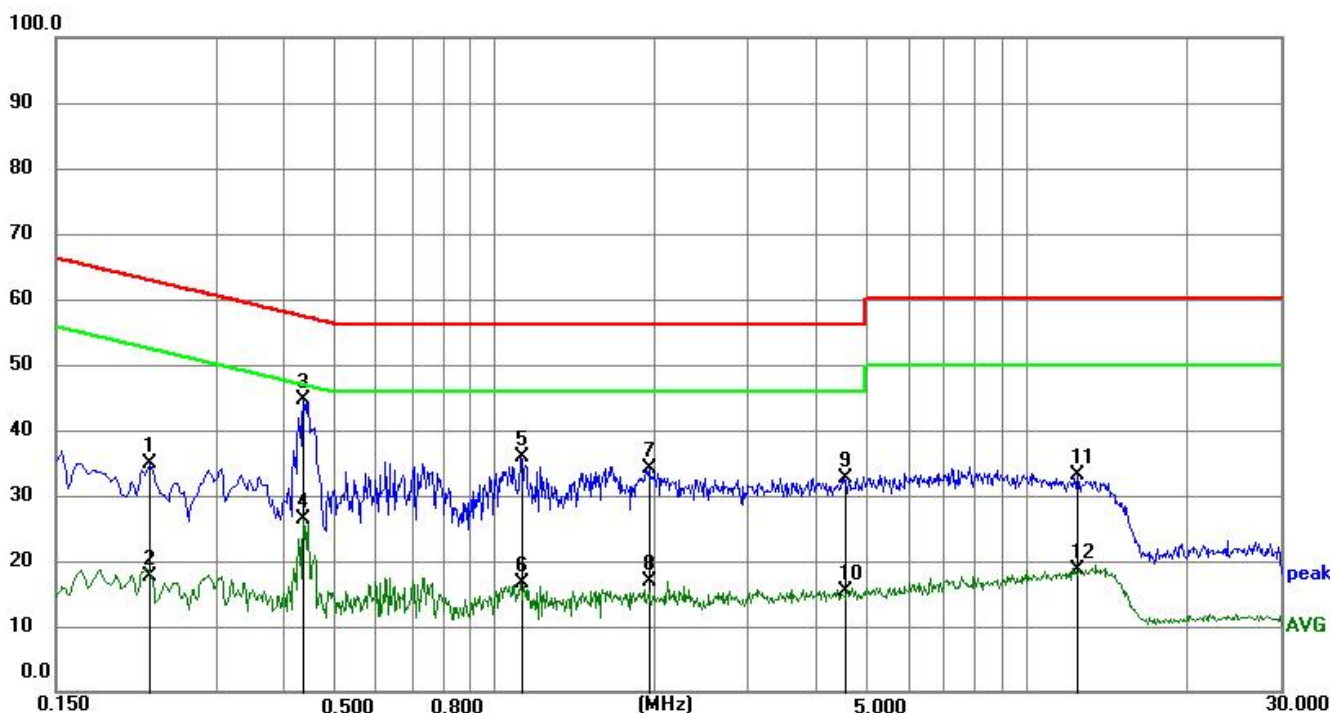


Note: 1.Support units were connected to second LISN.

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

3.4 TEST RESULTS

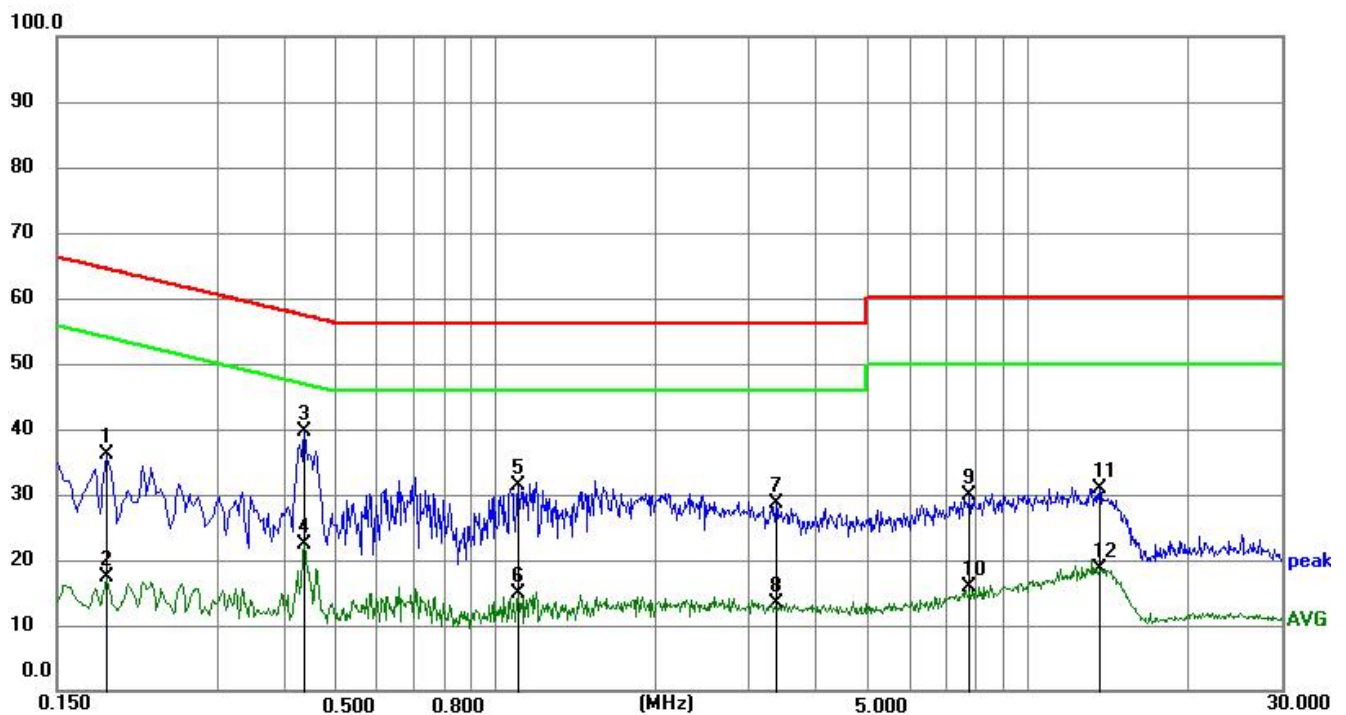
Temperature:	23.6℃	Relative Humidity:	57%
Phase:	L	Test Mode:	GFSK
Test Voltage:	DC 5V		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.2265	25.11	9.89	35.00	62.58	27.58	QP
2	0.2265	7.86	9.89	17.75	52.58	34.83	AVG
3	0.4380	34.60	9.91	44.51	57.10	12.59	QP
4	0.4380	16.43	9.91	26.34	47.10	20.76	AVG
5	1.1219	25.89	10.00	35.89	56.00	20.11	QP
6	1.1219	6.55	10.00	16.55	46.00	29.45	AVG
7	1.9589	24.09	10.04	34.13	56.00	21.87	QP
8	1.9589	6.73	10.04	16.77	46.00	29.23	AVG
9	4.5375	22.61	10.08	32.69	56.00	23.31	QP
10	4.5375	5.33	10.08	15.41	46.00	30.59	AVG
11	12.4710	22.95	10.10	33.05	60.00	26.95	QP
12	12.4710	8.61	10.10	18.71	50.00	31.29	AVG

Remark: All readings are Quasi-Peak and Average values.

Temperature:	23.6°C	Relative Humidity:	57%
Phase:	N	Test Mode:	GFSK
Test Voltage:	DC 5V		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1860	26.30	9.85	36.15	64.21	28.06	QP
2	0.1860	7.58	9.85	17.43	54.21	36.78	AVG
3	0.4380	29.66	9.90	39.56	57.10	17.54	QP
4	0.4380	12.45	9.90	22.35	47.10	24.75	AVG
5	1.1040	21.40	9.97	31.37	56.00	24.63	QP
6	1.1040	4.89	9.97	14.86	46.00	31.14	AVG
7	3.3675	18.61	10.08	28.69	56.00	27.31	QP
8	3.3675	3.21	10.08	13.29	46.00	32.71	AVG
9	7.7910	19.88	10.09	29.97	60.00	30.03	QP
10	7.7910	5.91	10.09	16.00	50.00	34.00	AVG
11	13.6275	20.74	10.19	30.93	60.00	29.07	QP
12	13.6275	8.49	10.19	18.68	50.00	31.32	AVG

Remark: All readings are Quasi-Peak and Average values.

4. RADIATED EMISSION MEASUREMENT

4.1 LIMIT

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 below has to be followed

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

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 (1GHz-25 GHz)

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

LIMITS OF FIELD STRENGTH OF THE FUNDAMENTAL SIGNAL

FREQUENCY (MHz)	(dBuV/m) (at 3M)	
	PEAK	AVERAGE
2400-2483.5	114	94

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 TEST PROCEDURE

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

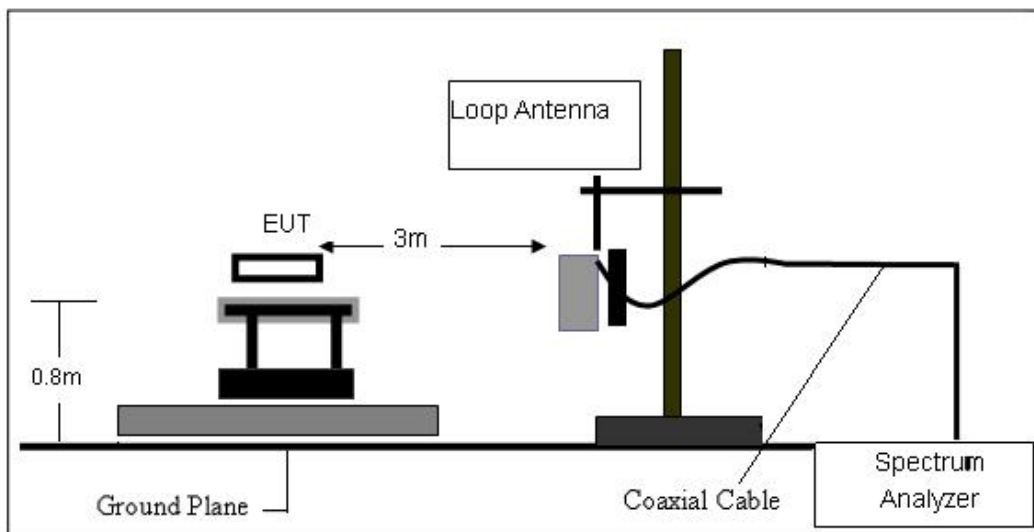
- The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 meters (above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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.
- 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 QuasiPeak detector mode re-measured.
- 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.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

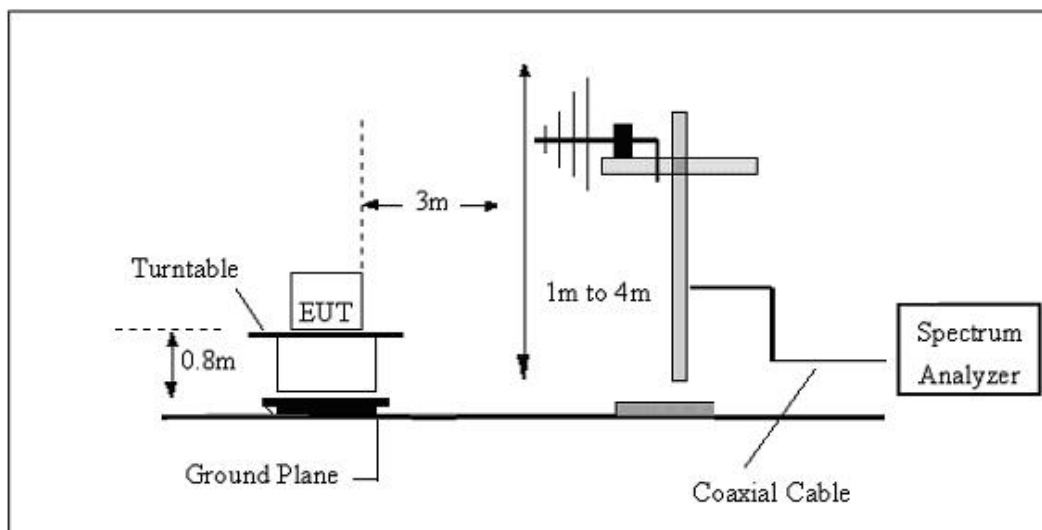
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.3 TEST SETUP

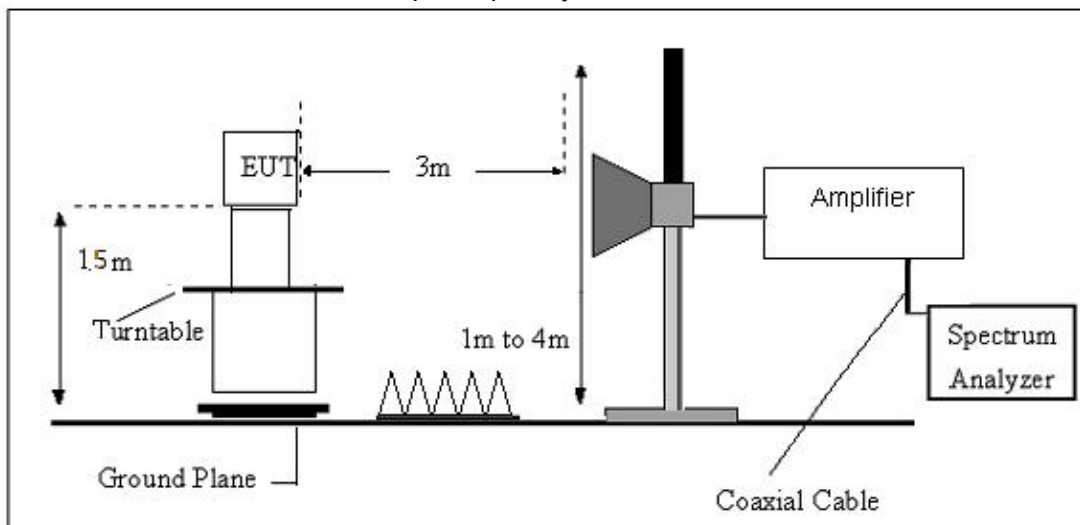
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



Temperature:	23.7°C	Relative Humidity:	57%
Test Voltage:	DC 6V	Test Mode:	GFSK

For field strength of the fundamental signal

Peak

No.	Frequency (MHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2402	93.64	27.11	3.802	47.70	76.86	114.00	-37.14	Horizontal
2	2402	85.29	27.11	3.802	47.70	68.51	114.00	-45.49	Vertical
3	2440	94.18	27.34	3.844	47.64	77.72	114.00	-36.28	Horizontal
4	2440	84.57	27.34	3.844	47.64	68.11	114.00	-45.89	Vertical
5	2480	92.75	27.58	3.888	47.58	76.64	114.00	-37.36	Horizontal
6	2480	83.18	27.58	3.888	47.58	67.07	114.00	-46.93	Vertical

Avg

No.	Frequency (MHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2402	84.17	27.11	3.802	47.70	67.39	94.00	-26.61	Horizontal
2	2402	71.37	27.11	3.802	47.70	54.59	94.00	-39.41	Vertical
3	2440	82.53	27.34	3.844	47.64	66.07	94.00	-27.93	Horizontal
4	2440	70.26	27.34	3.844	47.64	53.80	94.00	-40.20	Vertical
5	2480	83.49	27.58	3.888	47.58	67.38	94.00	-26.62	Horizontal
6	2480	71.53	27.58	3.888	47.58	55.42	94.00	-38.58	Vertical

For spurious emission

(9KHz-30MHz)

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

Note:

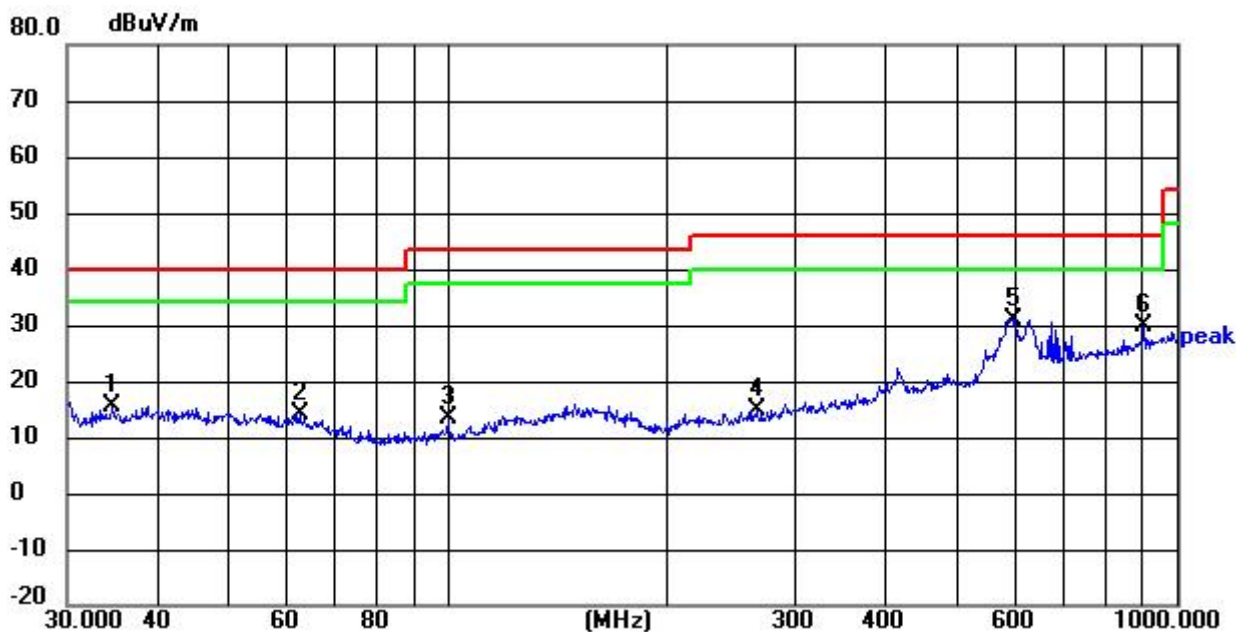
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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

(30MHZ-1000MHZ)

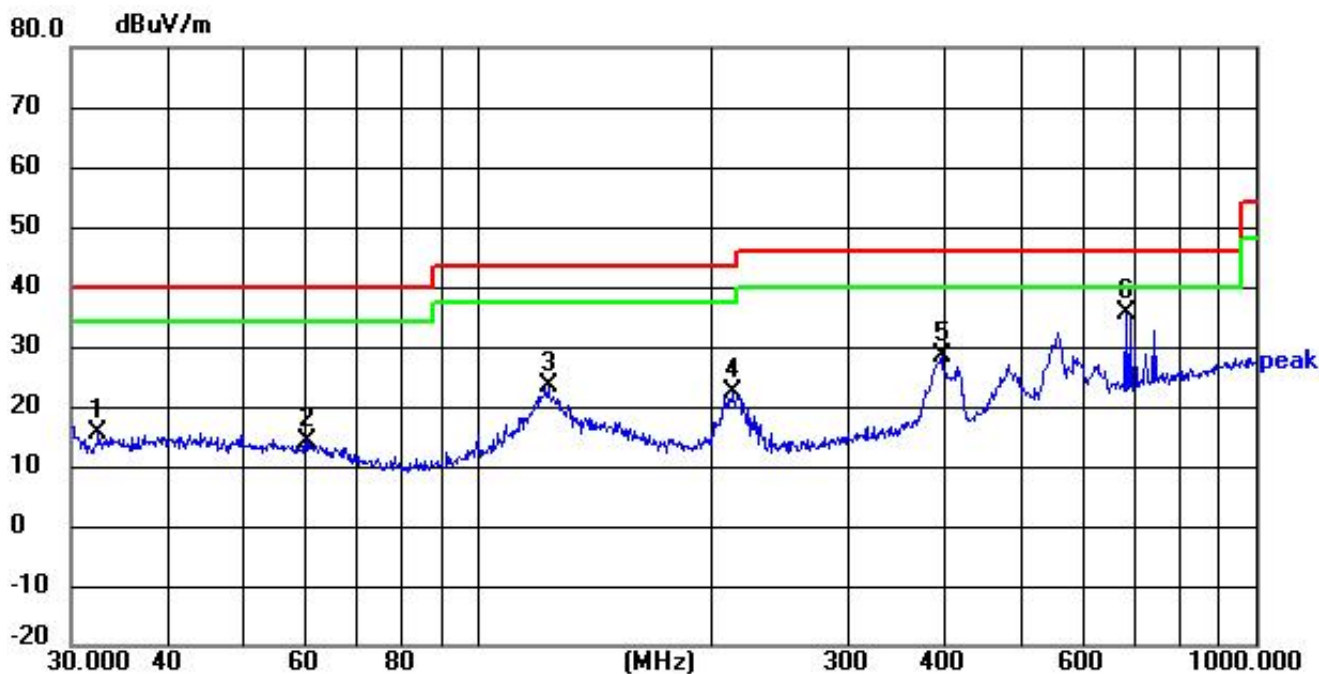
Temperature:	23.7°C	Relative Humidity:	61%
Test Voltage:	DC 6V	Phase:	Horizontal
Test Mode:	GFSK		



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	34.6385	27.49	-12.10	15.39	40.00	-24.61	QP
2	62.6506	27.62	-13.50	14.12	40.00	-25.88	QP
3	99.8777	28.94	-15.64	13.30	43.50	-30.20	QP
4	264.7457	27.47	-12.75	14.72	46.00	-31.28	QP
5	595.1327	36.15	-5.10	31.05	46.00	-14.95	QP
6	903.3093	29.97	-0.17	29.80	46.00	-16.20	QP

Note: 1. level= Reading level+ Factor, Margin=Measurement-Limit

Temperature:	22.7°C	Relative Humidity:	61%
Test Voltage:	DC 6V	Phase:	Vertical
Test Mode:	GFSK		



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	32.5198	27.77	-12.30	15.47	40.00	-24.53	QP
2	60.2801	27.19	-13.13	14.06	40.00	-25.94	QP
3	122.8340	36.86	-13.47	23.39	43.50	-20.11	QP
4	213.0151	36.97	-14.58	22.39	43.50	-21.11	QP
5	394.8545	38.03	-9.69	28.34	46.00	-17.66	QP
6	679.9600	38.91	-3.44	35.47	46.00	-10.53	QP

Note: 1. level= Reading level+ Factor, Margin=Measurement-Limit

(1GHZ~25GHZ)

Low CH, Peak

Frequency (MHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4804.00	56.28	32.01	5.775	43.81	50.25	74	-23.75	Vertical
7206.00	49.74	35.19	6.425	42.55	48.80	74	-25.20	Vertical
9608.00	46.59	37.32	7.274	41.74	49.44	74	-24.56	Vertical
12025.00	*					74		Vertical
14430.00	*					74		Vertical
4804.00	49.82	32.01	5.775	43.81	43.79	74	-30.21	Horizontal
7206.00	47.56	35.19	6.425	42.55	46.62	74	-27.38	Horizontal
9608.00	44.27	37.32	7.274	41.74	47.12	74	-26.88	Horizontal
12025.00	*					74		Horizontal
14430.00	*					74		Horizontal

Note:

- 1.For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
- 2.The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.

Middle Peak

Frequency (MHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4880.00	55.63	32.16	5.823	43.69	49.92	74	-24.08	Vertical
7320.00	48.52	35.38	6.489	42.42	47.97	74	-26.03	Vertical
9760.00	45.71	37.40	7.350	41.64	48.82	74	-25.18	Vertical
12200.00	*					74		Vertical
14640.00	*					74		Vertical
4880.00	48.91	32.16	5.823	43.69	43.20	74	-30.80	Horizontal
7320.00	46.36	35.38	6.489	42.42	45.81	74	-28.19	Horizontal
9760.00	43.84	37.40	7.350	41.64	46.95	74	-27.05	Horizontal
12200.00	*					74		Horizontal
14640.00	*					74		Horizontal

Note:

- 1.For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
- 2.The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.

High Peak

Frequency (MHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4960.00	57.14	32.74	5.874	43.56	52.19	74	-21.81	Vertical
7440.00	50.35	35.86	6.556	42.27	50.49	74	-23.51	Vertical
9920.00	48.42	37.46	7.430	41.55	51.76	74	-22.24	Vertical
12400.00	*					74		Vertical
14880.00	*					74		Vertical
4960.00	52.48	32.74	5.874	43.56	47.53	74	-26.47	Horizontal
7440.00	48.39	35.86	6.556	42.27	48.53	74	-25.47	Horizontal
9920.00	45.07	37.46	7.430	41.55	48.41	74	-25.59	Horizontal
12400.00	*					74		Horizontal
14880.00	*					74		Horizontal

Note:

1. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
2. The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.

5. BAND EDGE TEST

5.1 LIMIT

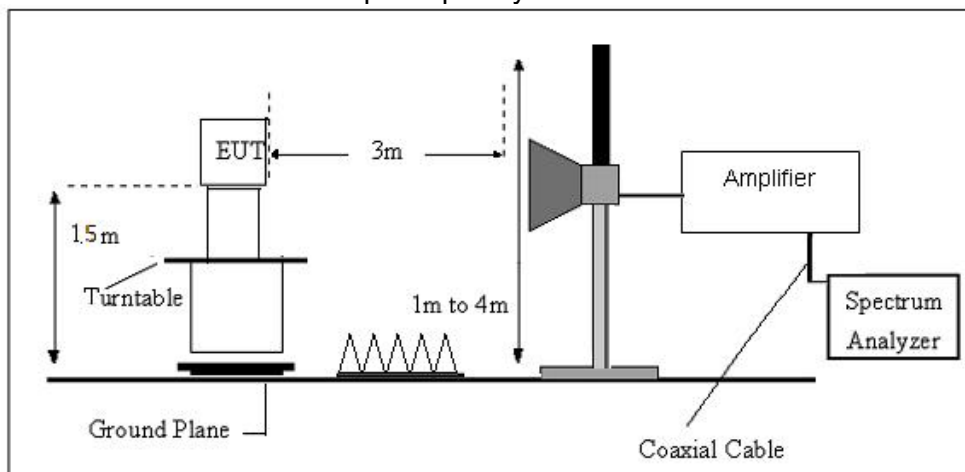
According to §15.249(d), Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

5.2 TEST PROCEDURE

- a. The EUT is placed on a turntable, which is 1.5m above ground plane.
- b. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
Use the following spectrum analyzer settings:
 - c. Span = wide enough to fully capture the emission being measured, RBW = 1 MHz, VBW $\geq$ RBW, Sweep = auto, Detector function = peak, Trace = max hold
 Follow the guidelines in ANSI C63.4 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc.
- d. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. Set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the duty cycle per channel of the hopping signal is less than 100 ms, then the reading obtained with
- e. the 10 Hz VBW may be further adjusted by a “duty cycle correction factor”, derived from $20\log(\text{duty cycle}/100 \text{ ms})$, in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

5.3 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz



5.4 TEST RESULTS

Low CH (GFSK)

Peak

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	59.37	27.62	3.70	47.84	42.85	74	-31.15	Horizontal
2390.00	58.03	27.14	3.79	47.72	41.24	74	-32.76	Horizontal
2400.00	58.37	27.10	3.80	47.70	41.57	74	-32.43	Horizontal
2310.00	58.46	27.62	3.70	47.84	41.94	74	-32.06	Vertical
2390.00	57.12	27.14	3.79	47.72	40.33	74	-33.67	Vertical
2400.00	59.05	27.10	3.80	47.70	42.25	74	-31.75	Vertical

High CH(GFSK)

Peak

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	57.62	27.60	3.89	47.57	41.54	74	-32.46	Horizontal
2500.00	58.33	27.70	3.91	47.55	42.39	74	-31.61	Horizontal
2483.50	57.41	27.60	3.89	47.57	41.33	74	-32.67	Vertical
2500.00	58.48	27.70	3.91	47.55	42.54	74	-31.46	Vertical

Remark.

- 1.Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor
- 2.The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.
- 3.All restriction band have been tested, and only the worst case is shown in report
- 4.For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

6. 20 DB BANDWIDTH TEST

6.1 LIMIT

According to 15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation

6.2 TEST PROCEDURE

- Check the calibration of the measuring instrument using either an internal calibrator or a
- known signal from an external generator
 - Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
 - Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.

6.3 TEST SETUP



6.4 TEST RESULTS

Temperature:	25°C	Relative Humidity:	50%
Test Mode:	GFSK	Test Voltage:	DC 6V

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.222	PASS
2440 MHz	1.216	PASS
2480 MHz	1.212	PASS





7. ANTENNA REQUIREMENT

7.1 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.

7.2 EUT ANTENNA

The antennas used for this product are PCB antenna and other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 2dBi.

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