



FCC Test Report

Report No: FCS20200221006W01

Issued for

Applicant:	DAILY RFID CO., LIMITED
Address:	5/F,China Hotel Commercial Building,NO.122,Liuhua Road, Guangzhou
Product Name:	RFID Card (RFID Active Tag)
Brand Name:	N/A
Model Name:	2.4GHz RFID Active Tag-10(T8652)
Series Model:	2.4GHz RFID Active Tag-09(T5030), 2.4GHzRFID Active Student Card-14(T8351), 2.4GHz RFID Active Tag-15(T29030) DL9230Plus, DL9230W, DL9230G, DL9330, 2.4GHz~2.5GHz RFID Reader (RFID Active Reader) DL9230.
FCC ID:	2AVU6- T8652

Issued By: Flux Compliance Service Laboratory
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TEST RESULT CERTIFICATION

Applicant's Name DAILY RFID CO., LIMITED

Address 5/F, China Hotel Commercial Building, NO.122, Liuhua Road, Guangzhou

Manufacturer's Name DAILY RFID CO., LIMITED

Address 3/F, Building A, Huadu Industrial park, Huadu District, Guangzhou

Product Description

Product Name RFID Card (RFID Active Tag)

Brand Name N/A

Model Name 2.4GHz RFID Active Tag-10(T8652)

2.4GHz RFID Active Tag-09(T5030), 2.4GHz RFID Active Student Card-14(T8351),
Series Model 2.4GHz RFID Active Tag-15(T29030) DL9230Plus, DL9230W, DL9230G, DL9330,
2.4GHz~2.5GHz RFID Reader (RFID Active Reader) DL9230.

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

Test Procedure ANSI C63.10:2013

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.

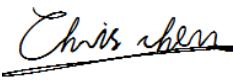
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Date of Test

Date (s) of performance of tests 10 Feb. 2020 ~ 22 Feb. 2020

Date of Issue 22 Feb. 2020

Test Result Pass

Tested by : 

(Chris Chen)

Reviewed by : 

(Jack Chen)

Approved by : 

(Andy Yue)

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Revision History

Rev.	Issue Date	Effect Page	Contents
00	22 Feb. 2020	All	Initial Issue

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
KDB 558074 D01 15.249 Meas Guidance v05r02

FCC Part 15.247, Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	N/A	--
15.205(a), 15.209(a), 15.249(a), 15.249(c)	Radiated Spurious Emission	PASS	--
15.209	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 C63.10-2013

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:	+86-769-27280901
Fax:	+86-769-27280901
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

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	RFID Card (RFID Active Tag)
Trade Name	N/A
Model Name	2.4GHz RFID Active Tag-10(T8652)
Series Model	2.4GHz RFID Active Tag-09(T5030), 2.4GHz RFID Active Student Card-14(T8351), 2.4GHz RFID Active Tag-15(T29030)DL9230Plus, DL9230W, DL9230G, DL9330, 2.4GHz~2.5GHz RFID Reader (RFID Active Reader) DL9230
Model Difference	Just different in model name
Channel List	Please refer to the Note 2.
Frequency	Frequency:2450MHz Modulation: GFSK
Power Supply	DC 3V
Hardware version number	V1.0
Software version number	V1.0
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	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2450	/	/	/	/

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	Fusion	PCB antenna	N/A	1.00dBi	Antenna

2.2 DESCRIPTION OF THE TEST MODES

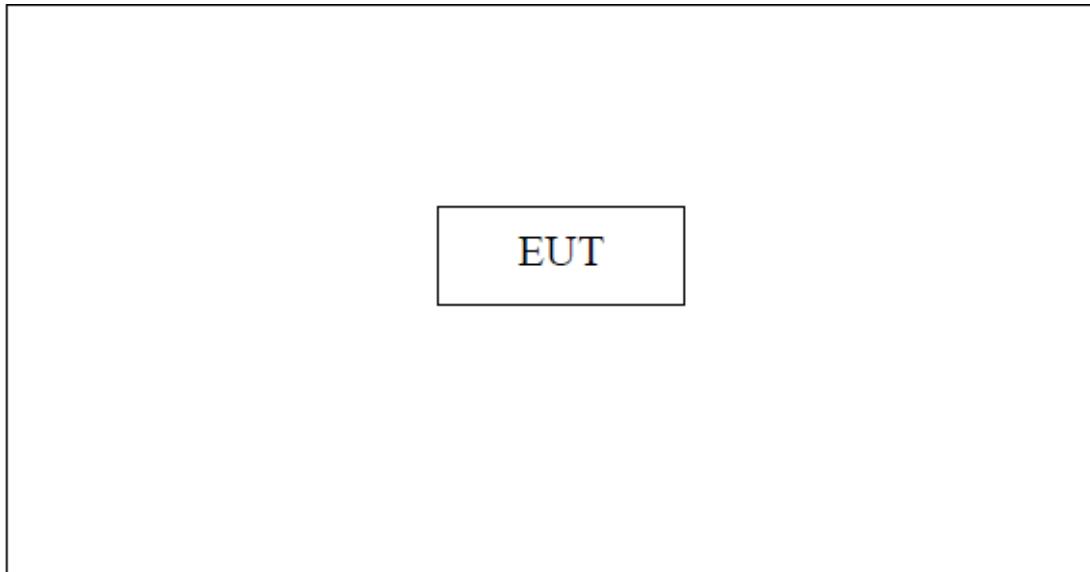
To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration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

Worst Mode	Description	Data Rate/Modulation
Mode 1	TX CH01	GFSK

Note:

- (1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
- (2) During the test, the dutycycle>98%, the test voltage was tuned from 85% to 115% of the Nominal rate supply votage, and found that the worst case was the nominal rated supply condition, So the report just shows that condition's data

Conducted Emission Test



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	N/A	N/A	N/A	N/A	N/A
2	N/A	N/A	N/A	N/A	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
1	N/A	N/A	N/A	N/A	N/A
2	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	ESRP 3	FCS-E001	2019.05.31	2020.05.30
Signal Analyzer	R&S	FSV40-N	FCS-E012	2019.06.05	2020.06.04
Active loop Antenna	ZHINAN	ZN30900C	FCS-E013	2019.10.11	2020.10.10
Bilog Antenna	SCHWARZBECK	VULB 9168	FCS-E002	2019.10.26	2020.10.25
Horn Antenna	SCHWARZBECK	BBHA 9120D	FCS-E003	2019.05.31	2020.05.30
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	FCS-E018	2019.05.31	2020.05.30
Pre-Amplifier(0.1M-3G Hz)	EMCI	EM330N	FCS-E004	2019.05.31	2020.05.30
Pre-Amplifier (1G-18GHz)	N/A	TSAMP-0518SE	FCS-E014	2019.10.03	2020.10.02
Pre-Amplifier (18G-40GHz)	TERA-MW	TRLA-0400	FCS-E019	2019.10.08	2020.10.07
Temperature & Humidity	HTC-1	victor	FCS-E005	2019.05.31	2020.05.30

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESPI	FCS-E020	2019.05.31	2020.05.30
LISN	R&S	ENV216	FCS-E007	2019.05.15	2020.05.14
LISN	ETS	3810/2NM	FCS-E009	2019.10.15	2020.10.14
Temperature & Humidity	HTC-1	victor	FCS-E008	2019.05.31	2020.05.30

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
Spectrum Analyzer	Keysight	N9020A	FCS-E015	2019.10.02	2020.10.01
Spectrum Analyzer	Agilent	E4447A	MY50180039	2019.11.08	2020.11.07
Spectrum Analyzer	R&S	FSV-40	101499	2019.10.10	2020.10.09

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 Emissionlimit (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.

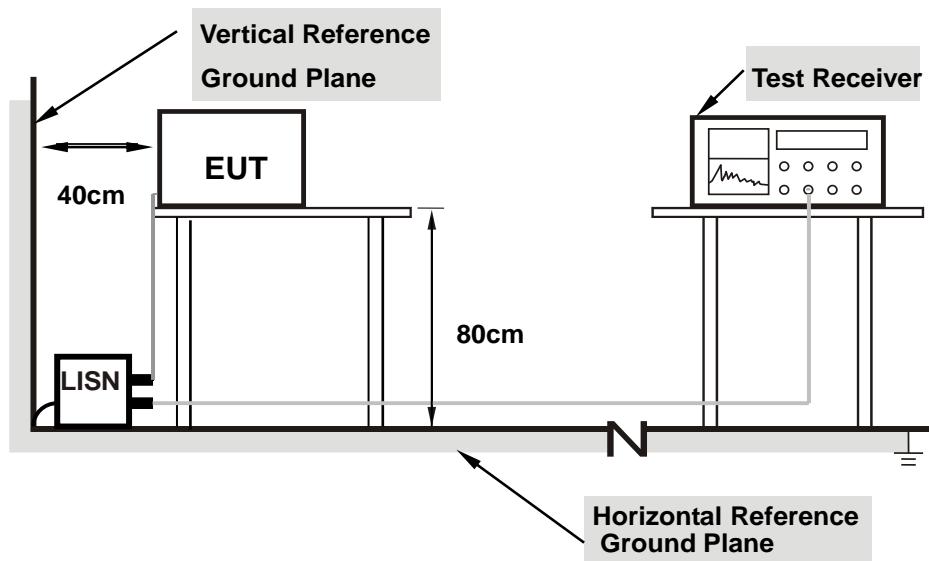
3.2 TEST PROCEDURE

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

3.5 TEST RESULTS

Temperature:	25°C	Relative Humidity:	50%
Test Mode:	GFSK	Test Voltage:	DC 3V
Result:	NA		

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 C63.10-2013 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

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

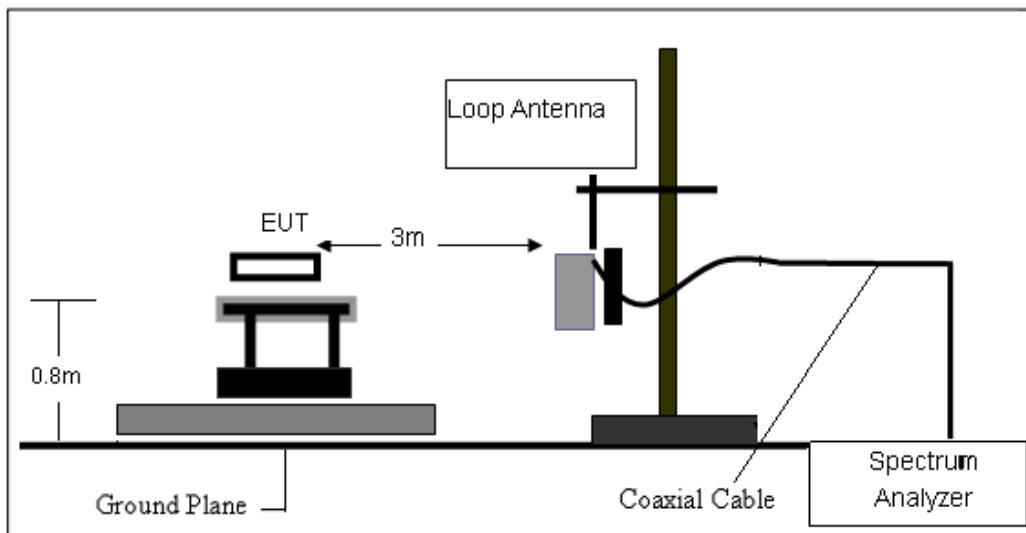
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 meters (above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to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

Note:

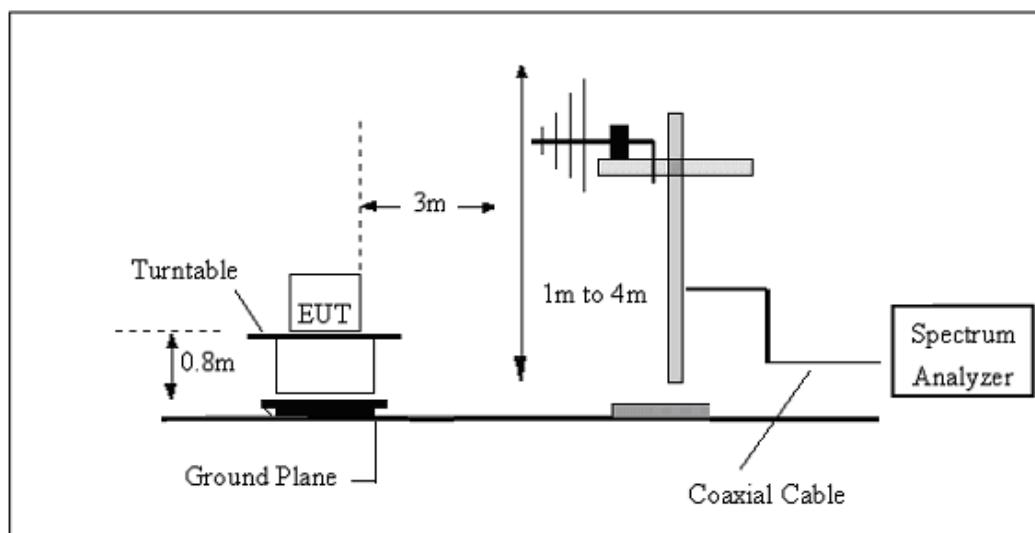
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.3 TEST SETUP

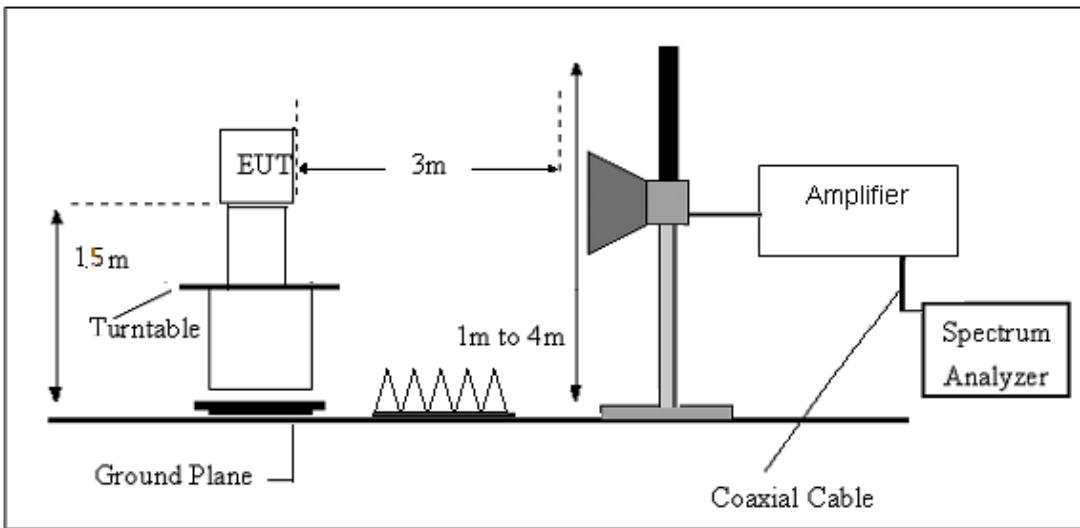
(A) Radiated Emission Test Set-up Diagram Frequency Below 30MHz



(B) Radiated Emission Test Set-up Diagram Frequency 30MHz~1GHz



(C) Radiated Emission Test Set-up Diagram Frequency Above 1GHz



4.5 TEST RESULTS

Temperature:	25°C	Relative Humidity:	60%
Test Mode:	GFSK Mode	Test Voltage:	DC 3V

For field strength of the fundamental signal

Peak value

Freq.	Reading	Limit	Margin	Polarization	Test Result
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	H/V	
2450	89.70	114.00	-24.30	H	PASS
2450	90.23	114.00	-23.77	V	PASS

Average value

Freq.	Reading	Limit	Margin	Polarization	Test Result
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	H/V	
2450	79.05	94.00	-14.95	H	PASS
2450	78.09	94.00	-15.91	V	PASS

For spurious emission
(9KHz-30MHz)

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

Note:

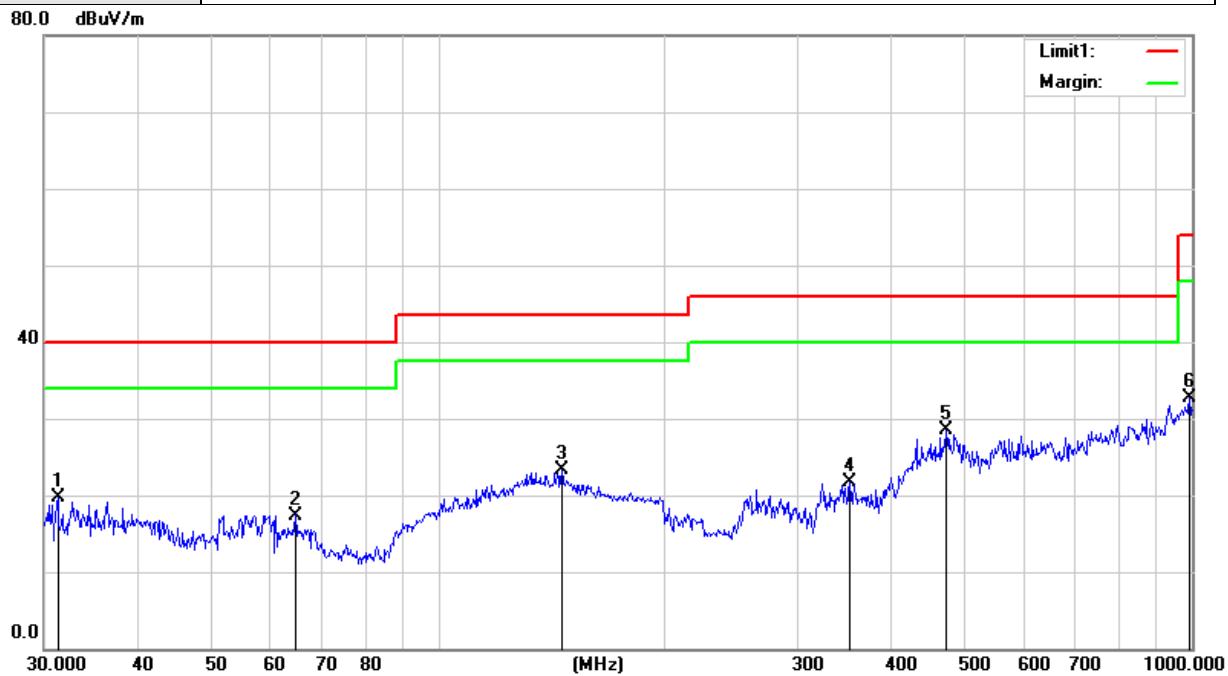
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);

LIMIT LINE = SPECIFIC LIMITS (DBUV) + DISTANCE EXTRAPOLATION FACTOR.

(30MHZ-1000MHZ)

Temperature:	23.7°C	Relative Humidity:	61%
Test Voltage:	DC 3V	Phase:	Horizontal
Test Mode:	GFSK		

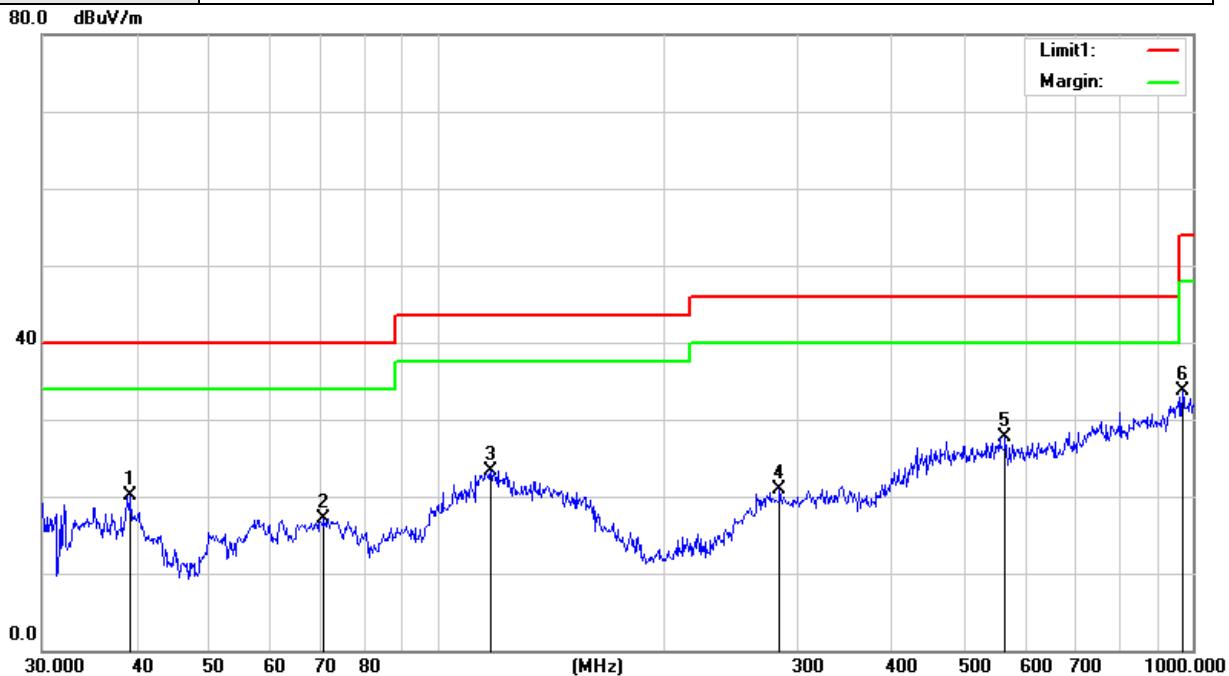


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31.2893	32.81	-13.05	19.76	40.00	-20.24	QP
2	64.6594	42.83	-25.43	17.40	40.00	-22.60	QP
3	145.8610	41.90	-18.61	23.29	43.50	-20.21	QP
4	351.7078	35.62	-13.84	21.78	46.00	-24.22	QP
5	472.1760	38.74	-10.22	28.52	46.00	-17.48	QP
6	993.0113	33.01	-0.27	32.74	54.00	-21.26	QP

Remark:

1. Margin = Result (Result =Reading + Factor)-Limit

Temperature:	22.7°C	Relative Humidity:	61%
Test Voltage:	DC 3V	Phase:	Vertical
Test Mode:	GFSK		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	39.2991	37.27	-17.18	20.09	40.00	-19.91	QP
2	70.8315	41.60	-24.56	17.04	40.00	-22.96	QP
3	117.7724	41.94	-18.55	23.39	43.50	-20.11	QP
4	283.9791	37.09	-16.19	20.90	46.00	-25.10	QP
5	564.6390	34.97	-7.17	27.80	46.00	-18.20	QP
6	968.9338	34.08	-0.35	33.73	54.00	-20.27	QP

(1GHZ~25GHZ) RESTRICTED BAND AND SPURIOUS EMISSION REQUIREMENTS

Frequency MHz	Emission Level dB μ V/m	Polarizatio n	Limit dB μ V/m	Detector	Margin dB μ V/m	Result
2450.00	72.27	Horizontal	94.00	AV	-21.73	Pass
2450.00	87.70	Horizontal	114.00	PK	-26.30	Pass
*4900.00	49.06	Horizontal	54.00	AV	-4.94	Pass
*4900.00	59.13	Horizontal	74.00	PK	-14.87	Pass
*7350.00	41.97	Horizontal	54.00	AV	-12.03	Pass
*7350.00	52.10	Horizontal	74.00	PK	-21.90	Pass
9800.00	41.32	Horizontal	54.00	AV	-12.68	Pass
9800.00	51.31	Horizontal	74.00	PK	-22.69	Pass
*12250.00	38.85	Horizontal	54.00	AV	-15.15	Pass
*12250.00	48.63	Horizontal	74.00	PK	-25.37	Pass
2450.00	82.55	Vertical	94.00	AV	-11.45	Pass
2450.00	95.68	Vertical	114.00	PK	-18.32	Pass
*4900.00	49.60	Vertical	54.00	AV	-4.40	Pass
*4900.00	61.35	Vertical	74.00	PK	-12.65	Pass
*7350.00	47.87	Vertical	54.00	AV	-6.13	Pass
*7350.00	57.68	Vertical	74.00	PK	-16.32	Pass
9800.00	41.68	Vertical	54.00	AV	-12.32	Pass
9800.00	51.22	Vertical	74.00	PK	-22.78	Pass
*12250.00	37.98	Vertical	54.00	AV	-16.02	Pass
*12250.00	47.55	Vertical	74.00	PK	-26.45	Pass

5. BAND EDGE TEST

5.1 LIMIT

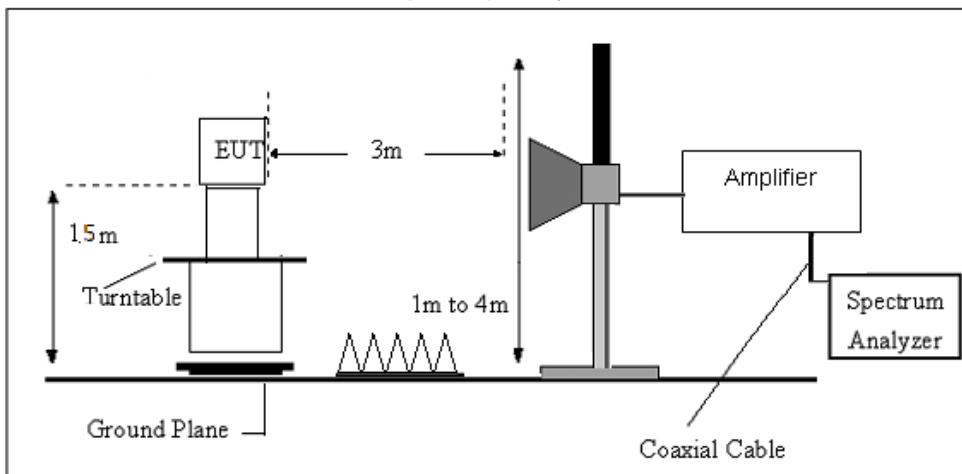
According to §15.249(d), Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

5.2 TEST PROCEDURE

- a. The EUT is placed on a turntable, which is 0.8m 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 C63.4-1992 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.

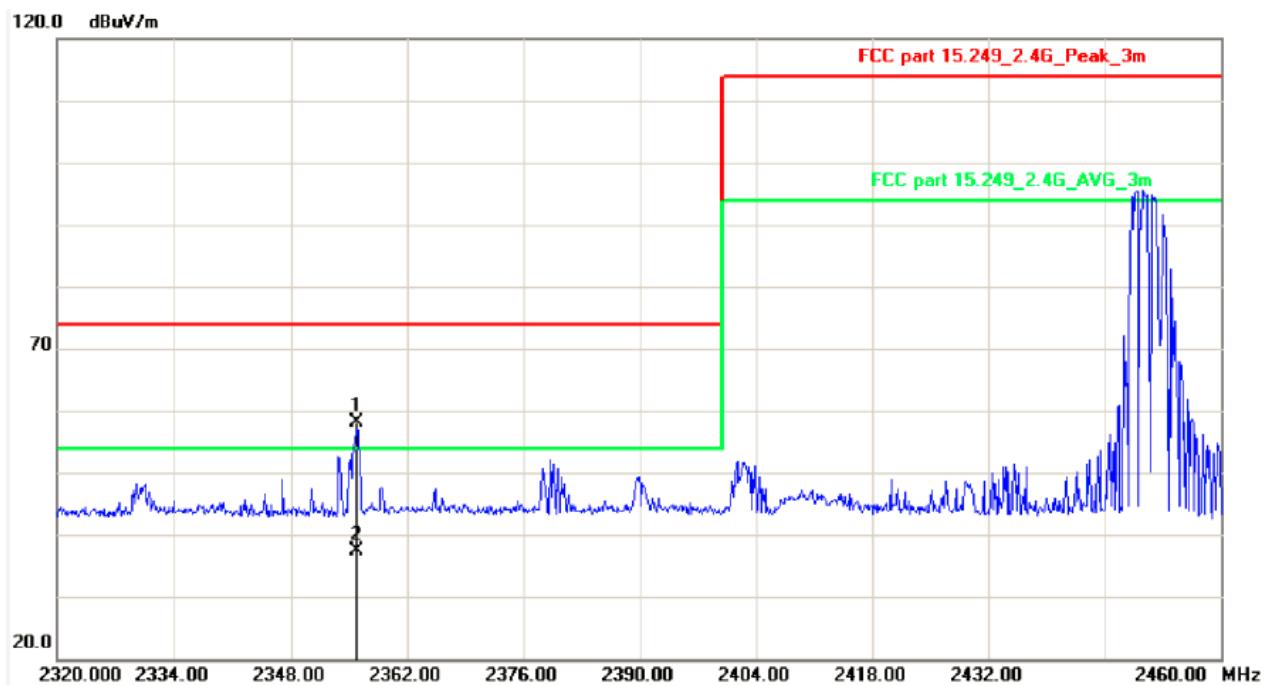
5.3 TEST SETUP

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

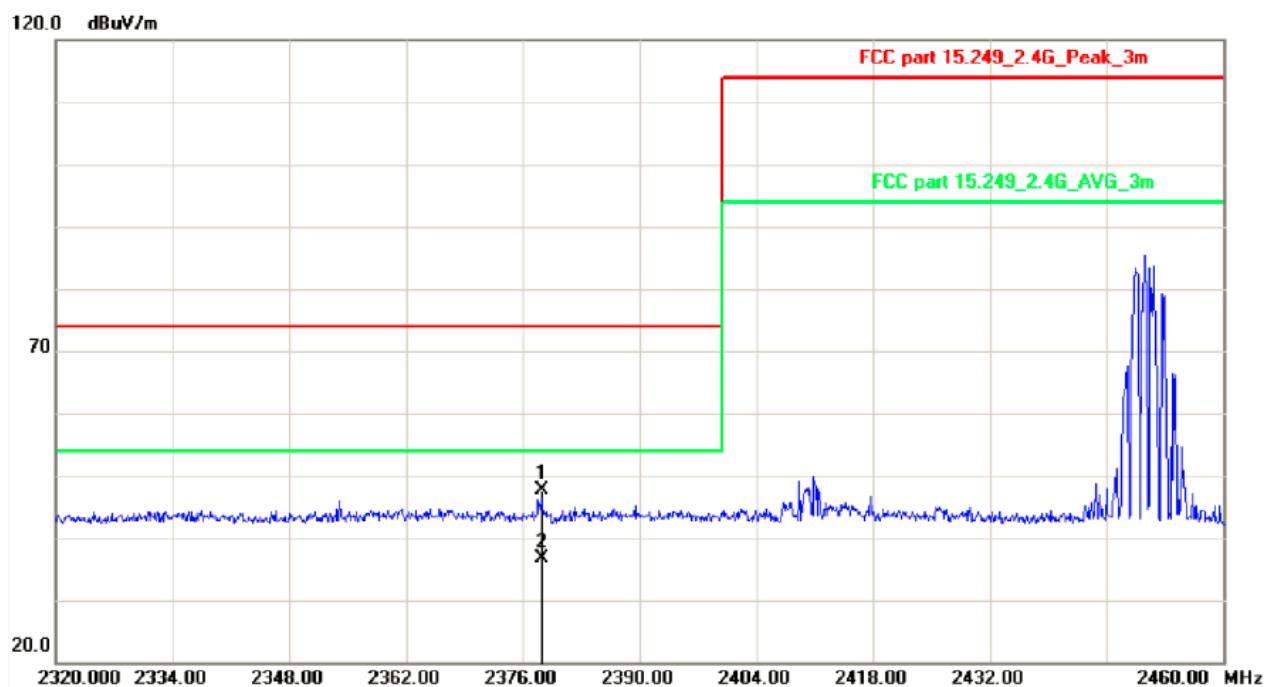


5.4 TEST RESULTS

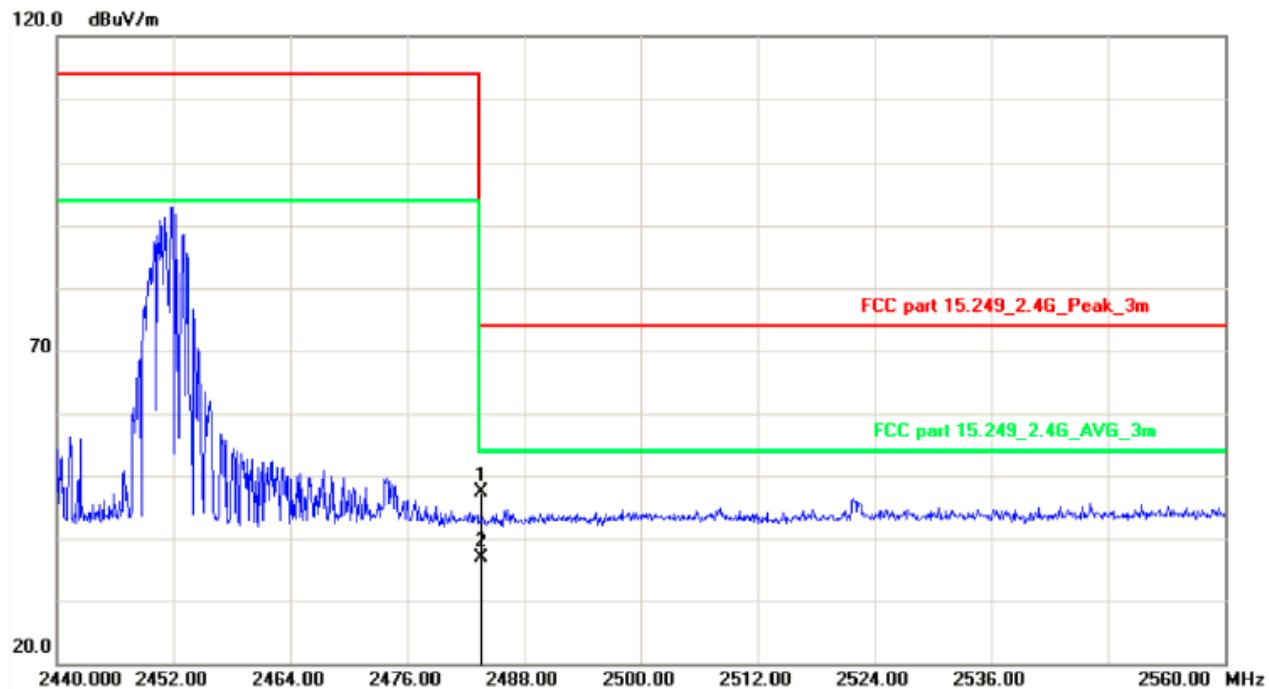
Operating Condition: Tx; 2450MHz



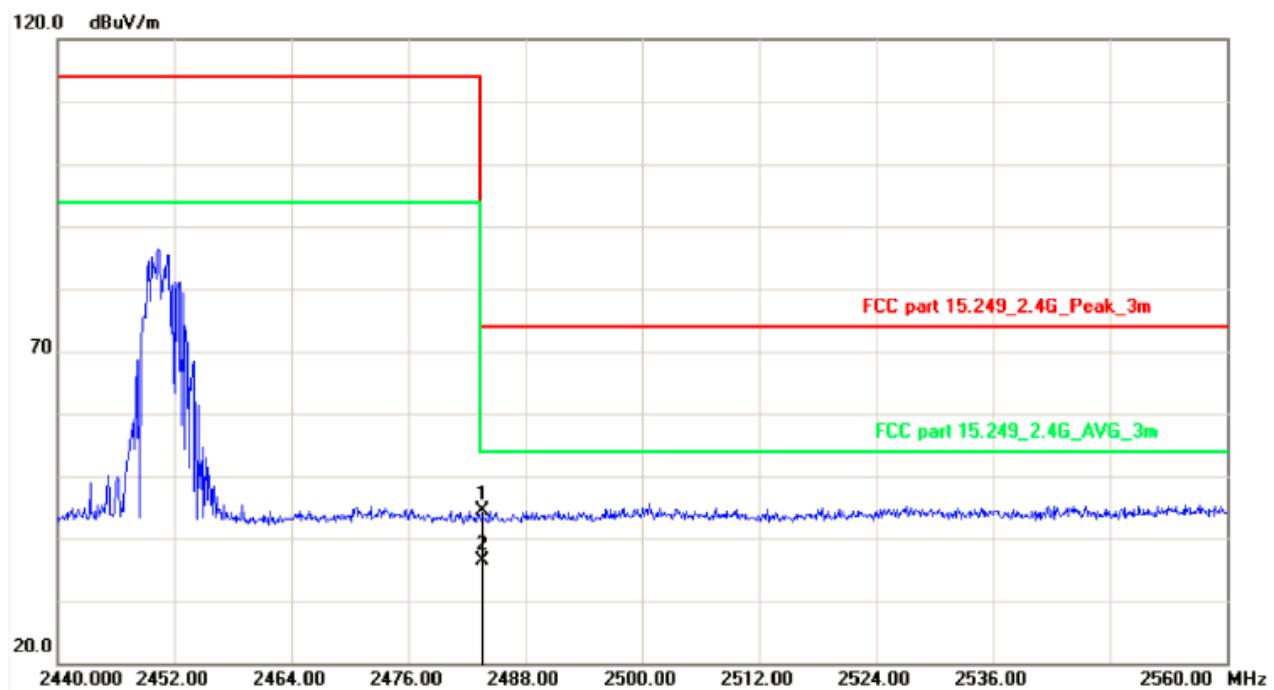
Frequency (MHz)	Emission Level dBuV/m	Polarization (H/V)	Limit dBuV/m	Detector	Margin dBuV/m
2355.98	58.18	H	74	PK	-15.82
2355.98	37.38	H	54	AV	-16.62



Frequency (MHz)	Emission Level dBuV/m	Polarization (H/V)	Limit dBuV/m	Detector	Margin dBuV/m
2378.240	47.58	V	74	PK	-26.42
2378.240	36.52	V	54	AV	-17.48



Frequency (MHz)	Emission Level dBuV/m	Polarization (H/V)	Limit dBuV/m	Detector	Margin dBuV/m
2483.56	47.32	H	74	PK	-26.68
2483.56	36.85	H	54	AV	-17.15



Frequency (MHz)	Emission Level dBuV/m	Polarization (H/V)	Limit dBuV/m	Detector	Margin dBuV/m
2483.56	47.27	V	74	PK	-29.73
2483.56	36.34	V	54	AV	-17.66

6. 20 DB BANDWIDTH TEST

6.1 LIMIT

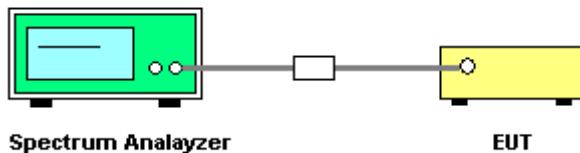
According to 15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified 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 3V

Frequency	20dB Bandwidth (MHz)	Result
2450 MHz	1.946	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 EUT antenna is PCB Antenna. It comply with the standard requirement.

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