

RF TEST REPORT

Report No.: UNI-14120201

Product Name: imHere

FCC ID: 2ADM4FJNTBLE01A

Model No. : imHere-key,imHere-bag,imHere-1.0/2.0/3.0,imHere-baby,imHere-pet
imHere-plus, imHere-child, imHere-wallet, imHere-phone

Applicant: Shenzhen Fengjing Networks Technology Co., Ltd.

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Issued by: Shenzhen United Testing Technology Co.,Ltd

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Test Report

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imHere-baby,imHere-pet,imHere-plus, imHere-child,
imHere-wallet, imHere-phone

Trade Name.....: Naturalscope

Applicant.....: Shenzhen Fengjing Networks Technology Co., Ltd.

Applicant Address.....: 1201, Tianranju Building A, Xiangmihu Street, Futian
District Shenzhen, China

Manufacturer: Shenzhen Fengjing Networks Technology Co., Ltd.

Manufacturer Address: 1201, Tianranju Building A, Xiangmihu Street, Futian
District Shenzhen, China

Test Standards.....: 47 CFR Part 15 Subpart C: Radio Frequency Devices
ANSI C63.10:2009 : American National Standard for
Testing Unlicensed Wireless Devices
KDB558074 D01 DTS Meas Guidance v03r02

Test Result: PASS

Tested by: Michael Su 2014.12.02
Michael Su, Test Engineer

Reviewed by: Mike Yong 2014.12.02
Mike Yong, Senior EGINEER

Approved by: Hoffer Lau 2014.12.02
Hoffer Lau, Manager

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1. General Information

1.1. EUT Description

EUT Type: imHere
 FCC ID.: 2ADM4FJNTBLE01A
 Frequency Range.....: The frequency range used is 2402MHz - 2480MHz (40 channels, at intervals of 2MHz);
 Modulation Type: GFSK
 Antenna Type.....: PCB Antenna
 Antenna Gain.....: 1dBi

Note 1: The EUT is a imHere, it contain Bluetooth 4.0 LTE Module operating at 2.4GHz ISM band; the frequencies allocated for the Bluetooth 4.0 LTE is $F(\text{MHz})=2402+2*n$ ($0 \leq n \leq 39$). The lowest, middle, highest channel numbers of the Bluetooth Module used and tested in this report are separately 0 (2402MHz), 20(2442MHz) and 39 (2480MHz).

Note 2: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

Note 3: The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

1.2. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C (Bluetooth, 2.4GHz ISM band radiators) for the EUT FCC Certification:

No.	Identity	Document Title
1	47 CFR Part 15 (10-1-12 Edition)	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section in CFR 47	Description	Result
1	15.203	Antenna Requirement	Complies
2	15.247(b)	Peak Output Power	Complies
3	15.247(a)	6dB Bandwidth	Complies
4	15.247(d)	Conducted Spurious Emission and Band Edge	Complies
5	15.247(d)	Restricted Frequency Bands	Complies
6	15.207	Conducted Emission	N/A
7	15.209 15.247(d)	Radiated Emission	Complies
8	15.247(e)	Power spectral density (PSD)	Complies
9	15.247(b), 1.1307(b)	RF Exposure	N/A

Note: N/A=Not Applicable

The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.10 2009.

These RF tests were performed according to the method of measurements prescribed in KDB558074 D01 V03r02 (05/06/2014).

1.3. Facilities and Accreditations

1.3.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

● **FCC —Registration No.: 572331**

Shenzhen TCT Testing Technology Co., Ltd., Shenzhen EMC Laboratory: Shenzhen Tongce Testing Lab The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

Registration Number: 572331

● **Industry Canada (IC)**

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

Registration Number IC: 10668A-1

1.3.2. Test Location

All tests were performed at:

Shenzhen Tongce Testing Lab
1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China

1.3.3. Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15°C - 35°C
Relative Humidity (%):	30% -60%
Atmospheric Pressure (kPa):	86KPa-106KPa

1.3.4. Test Instruments list

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2014.07.02	2015.07.01
Spectrum Analyzer	R&S	FSEM	848597/001	2014.07.03	2015.07.02
Pre-amplifier	Teseq	LAN6900	--	2014.07.03	2015.07.02
Pre-amplifier	Agilent	8447D	83153007374	2014.07.03	2015.07.02

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due Date
Pre-amplifier	Agilent	8449B	3008A01738	2014.07.03	2015.07.02
Loop antenna	A.R.A	PLA-1030/ B	1029	2014.07.03	2015.07.02
Ultra Broadband ANT	R&S	HL562	100157	2014.07.03	2015.07.02
Horn Antenna	ETS LINDGREN	3117	--	2014.07.03	2015.07.02
Horn Antenna	ETS LINDGREN	3160	--	2014.07.03	2015.07.02
EMI Test Receiver	R&S	ESCS30	10039	2014.07.02	2015.07.01
Coaxial Cable	TCT	N/A	N/A	2014.07.02	2015.07.01
Coaxial Cable	TCT	N/A	N/A	2014.07.02	2015.07.01

1.3.5. Measurement Uncertainty(95% confidence levels,k=2)

No.	Item	MU
1	Radio Frequency	$\pm 1 \times 10^{-9}$
2	Temperature	$\pm 0.1^{\circ}\text{C}$
3	Humidity	$\pm 1.0\%$
4	RF power, conducted	$\pm 0.34\text{dB}$
5	RF power density, conducted	$\pm 1.45\text{ dB}$
6	Spurious emissions, conducted	$\pm 3.70\text{ dB}$
7	All emissions, radiated	$\pm 4.50\text{ dB}$

2. 47 CFR Part 15C Requirements

2.1. Antenna requirement

2.1.1. Applicable Standard

According to FCC 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

And according to FCC 47 CFR Section 15.247(c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

2.1.2. Antenna Information

Antenna Category: Internal Antenna

An Internal antenna was soldered to the antenna port of EUT via an adaptor cable, can't be removed.

Antenna General Information:

No.	EUT Model	Ant. Cat.	Ant. Type	Gain(dBi)
1	imHere	Internal	PCB	1

2.1.3. Result: comply

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.

2.2. Peak Output Power

2.2.1. Requirement

According to FCC section 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: The maximum peak conducted output power of the intentional radiator shall not exceed 1 Watt.

2.2.2. Test Description

The measured output power was calculated by the reading of the spectrum analyzer and calibration.

Test Setup:



The EUT (Equipment under the test) which is powered by the Battery is coupled to the Spectrum analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading, all test result in Spectrum analyzer.

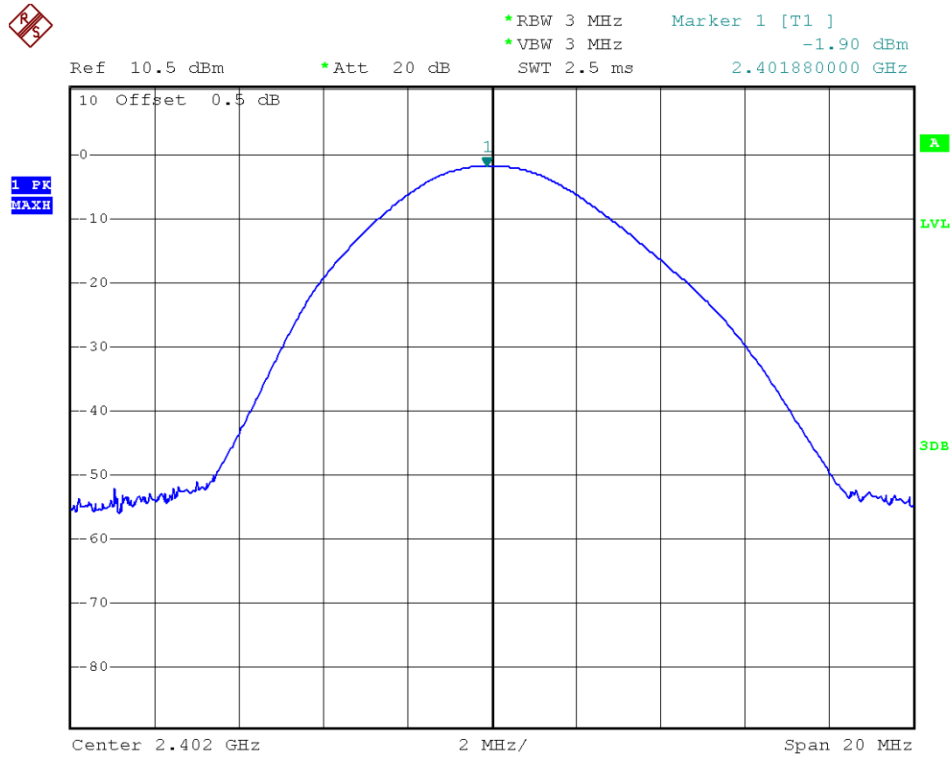
2.2.3. Test Result

The lowest, middle and highest channels are selected to perform testing to verify the conducted RF output peak power of the Module.

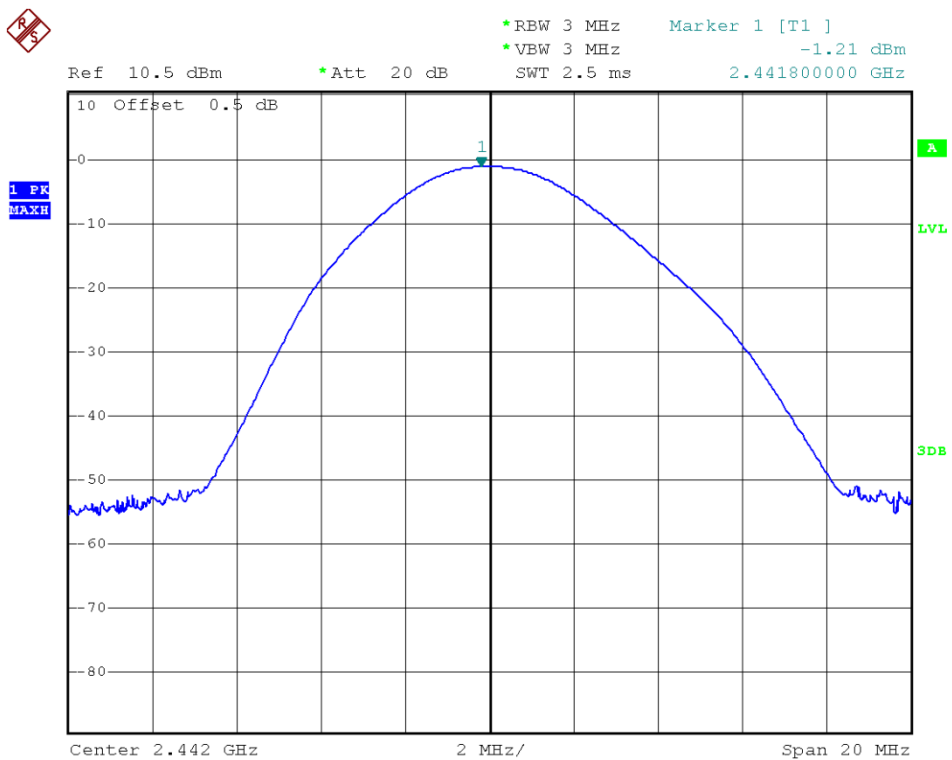
A. Test Verdict:

Channel	Frequency (MHz)	Measured Output Peak Power (dBm)	Refer to Plot	Limit (dBm)	Verdict
0	2402	-1.90	Plot A	30	PASS
20	2442	-1.21	Plot B		PASS
39	2480	-1.11	Plot C		PASS

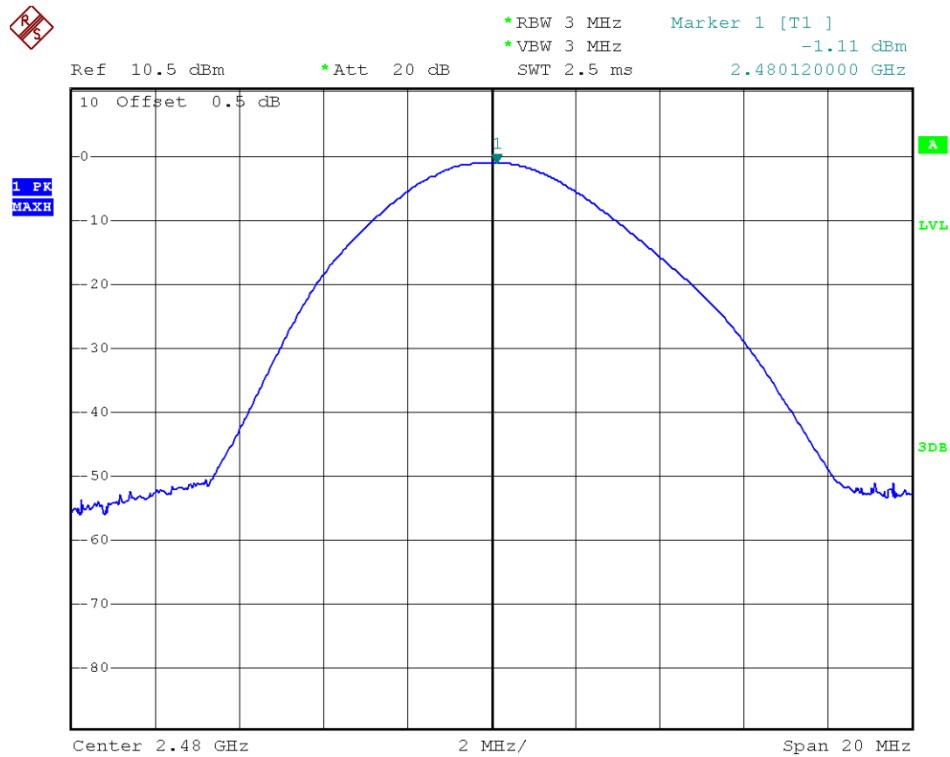
B. Test Plots:



(Plot A: Channel 0: 2402MHz)



(Plot B: Channel 20: 2442MHz)



(Plot C: Channel 39: 2480MHz)

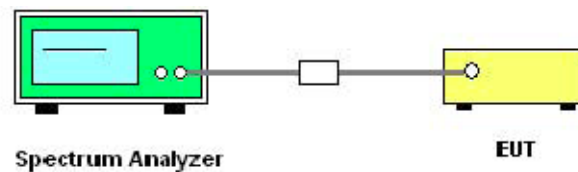
2.3. 6dB Bandwidth

2.3.1. Requirement

According to FCC section 15.247(a) (2), Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

2.3.2. Test Description

Test Set:



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

2.3.3. Test Result

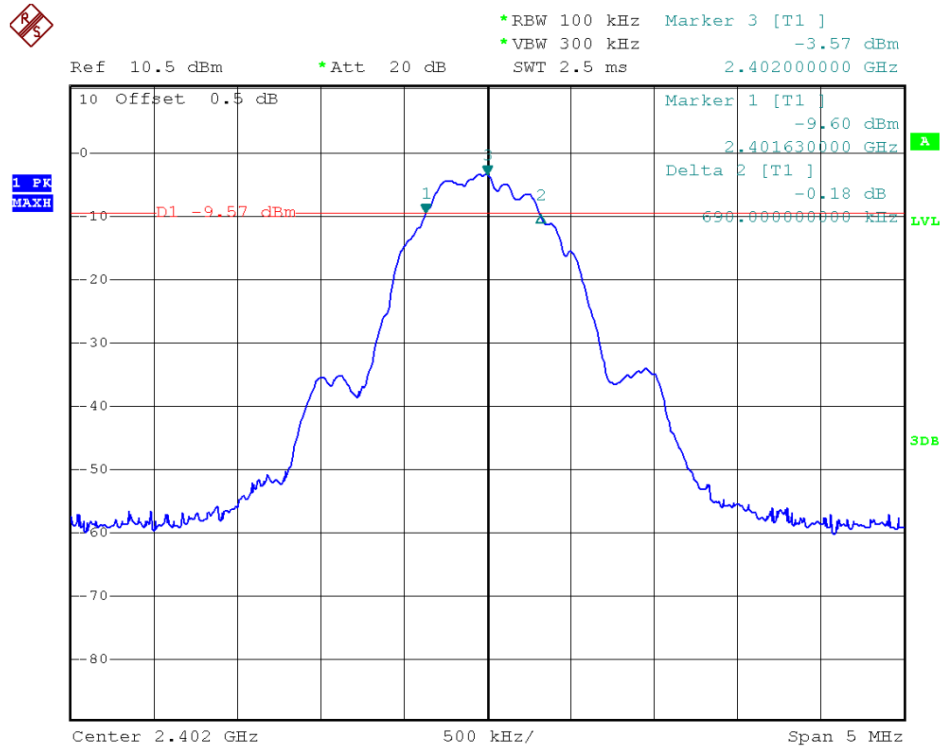
The lowest, middle and highest channels are selected to perform testing to record the 6 dB bandwidth of the Module.

A. Test Verdict:

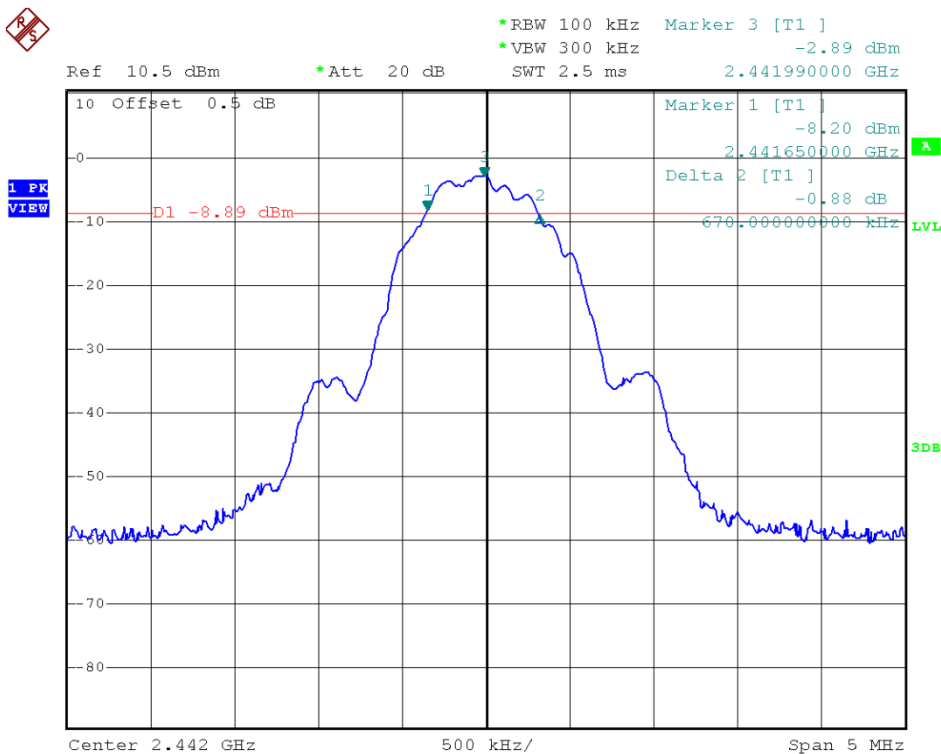
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Refer to Plot	Limits (kHz)	Result
0	2402	0.6900	Plot A1	≥ 500	PASS
20	2442	0.6700	Plot B1	≥ 500	PASS
39	2480	0.6700	Plot C1	≥ 500	PASS

B. Test Plots:

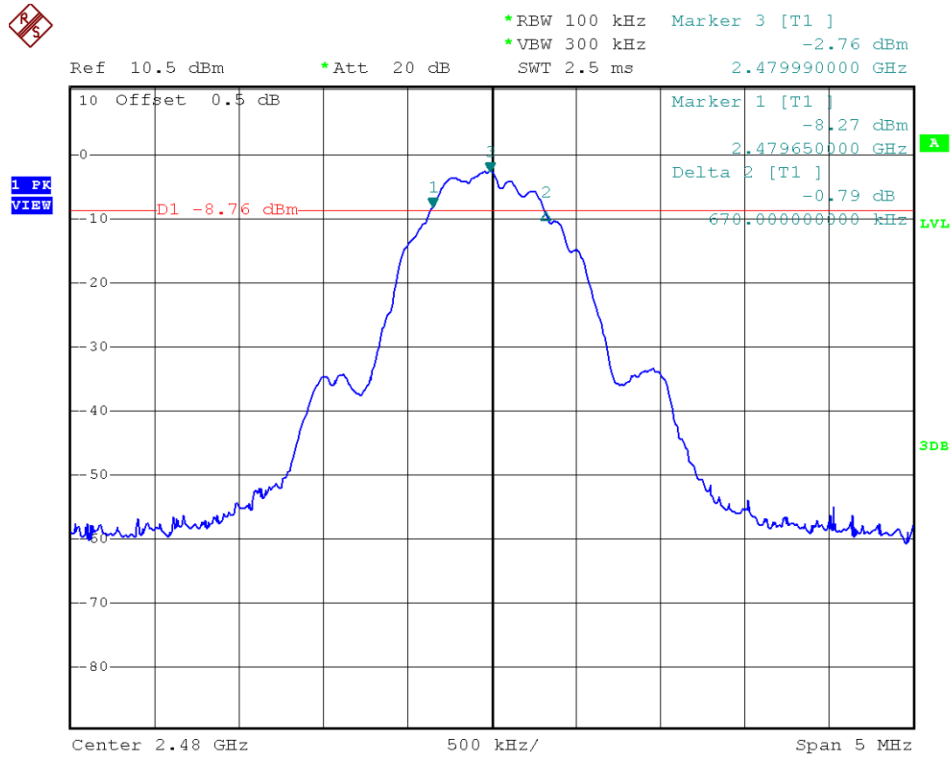
6 dB Bandwidth



(Plot A1:Channel 0: 2402MHz)



(Plot B1: Channel 20: 2442 MHz)



(Plot C1: Channel 39: 2480MHz)

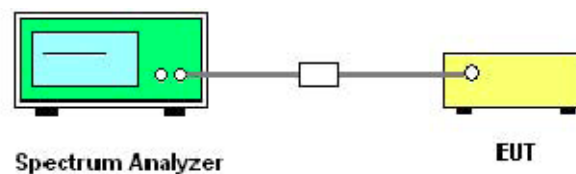
2.4. Conducted Spurious Emissions

2.4.1. Requirement

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

2.4.2. Test Description

Test Set:



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

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

2.4.3. Test Result

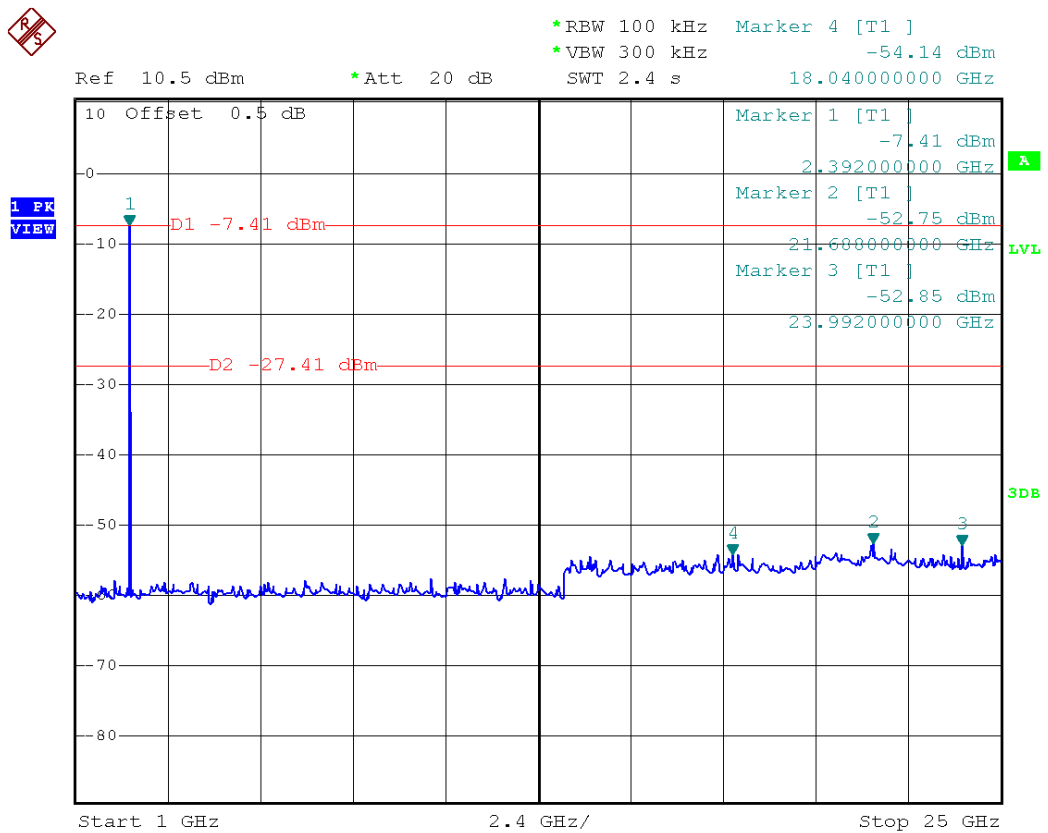
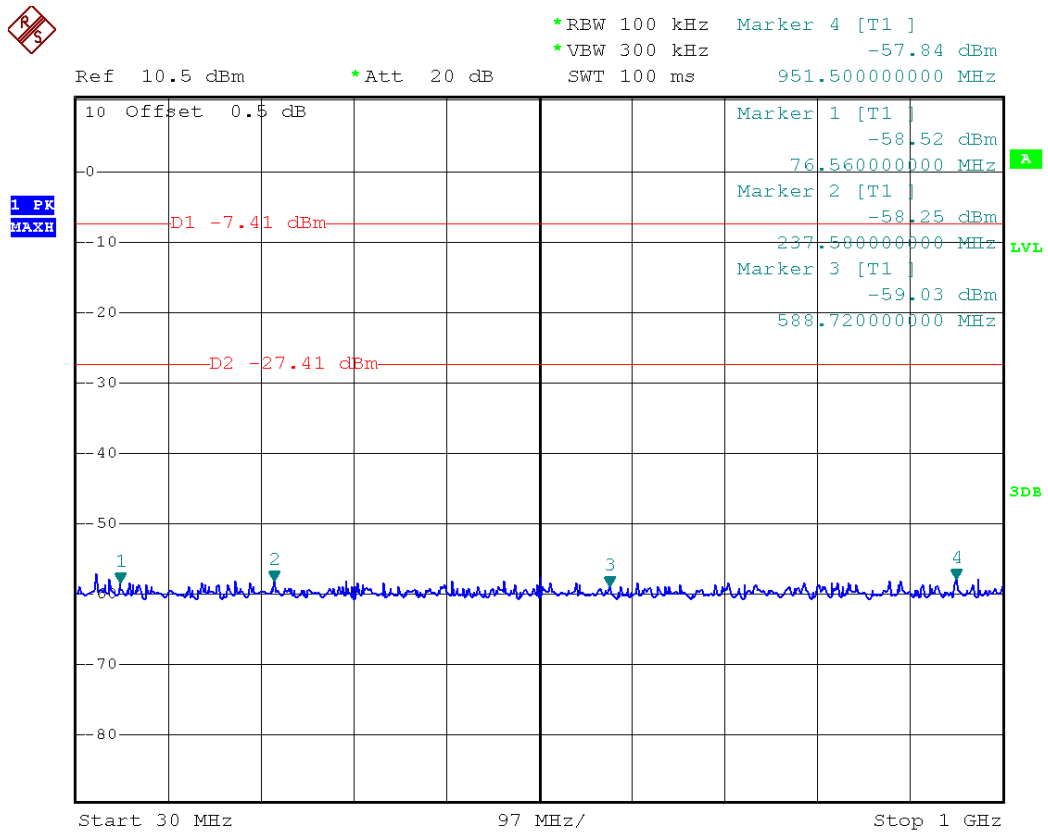
The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions.

A. Test Verdict:

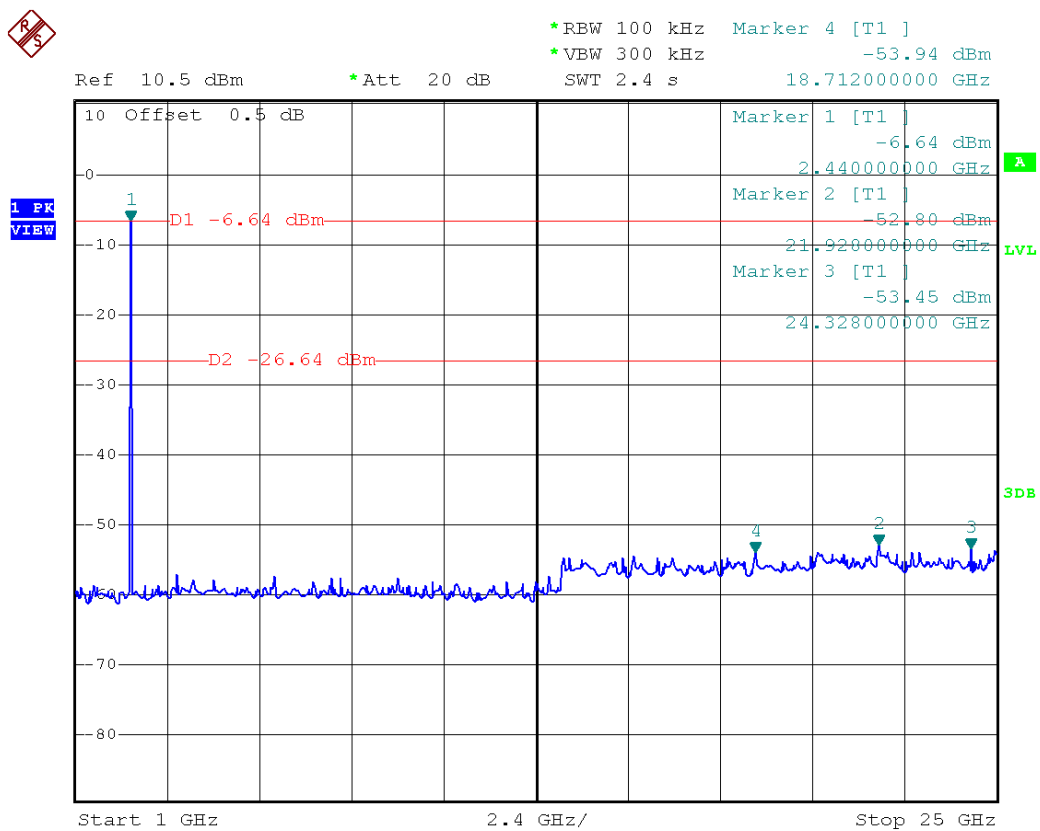
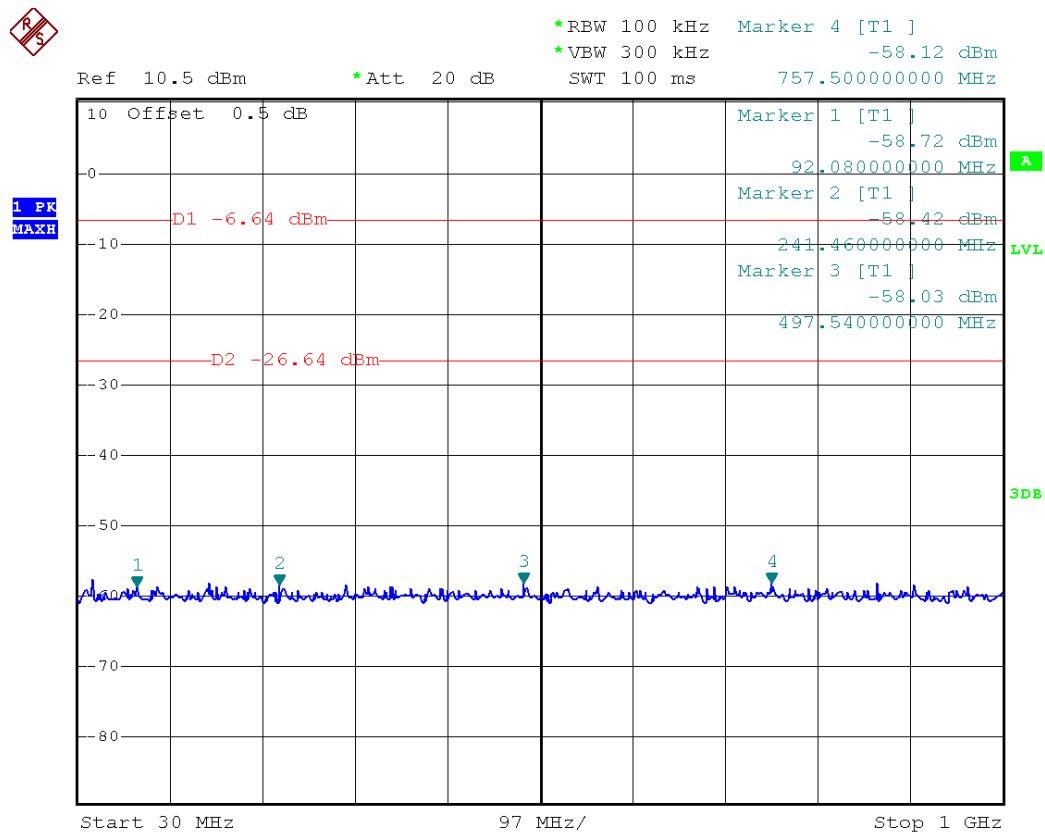
Channel	Frequency (MHz)	Refer to Plot	Limit (dBc)	Verdict
0	2402	Plot A.1/A.2	-20	PASS
20	2442	Plot B.1/B.2	-20	PASS
39	2480	Plot C.1/C.2	-20	PASS

B. Test Plots:

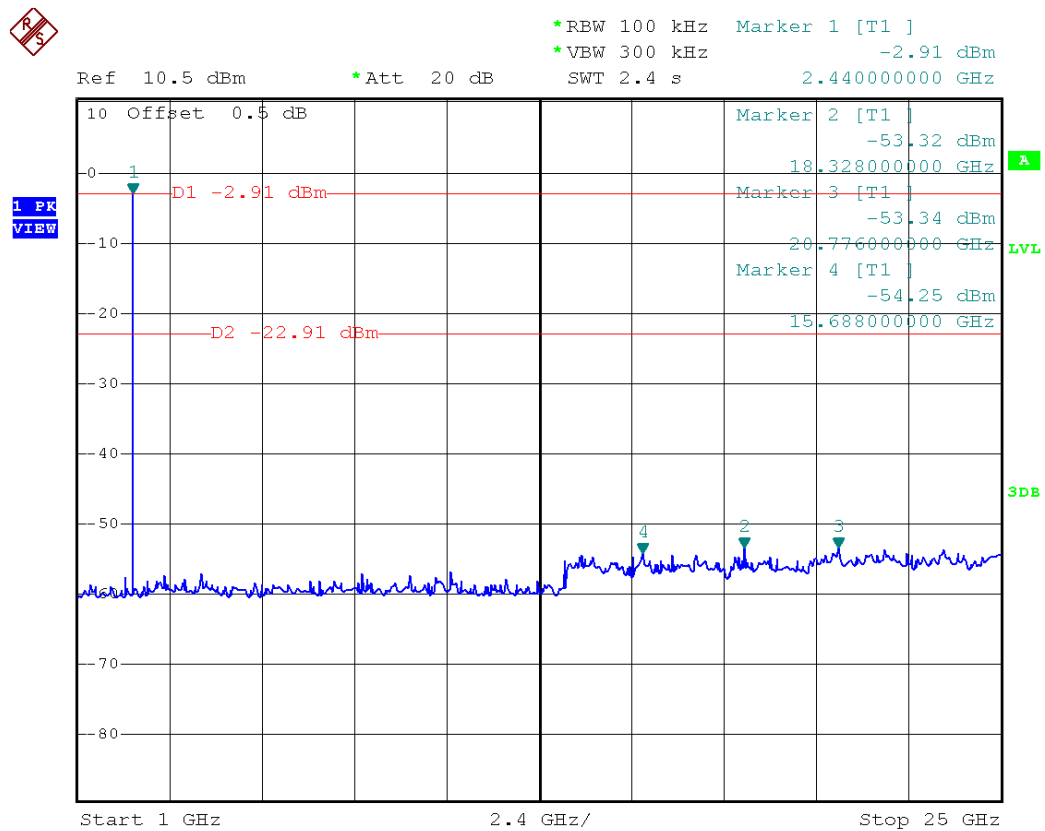
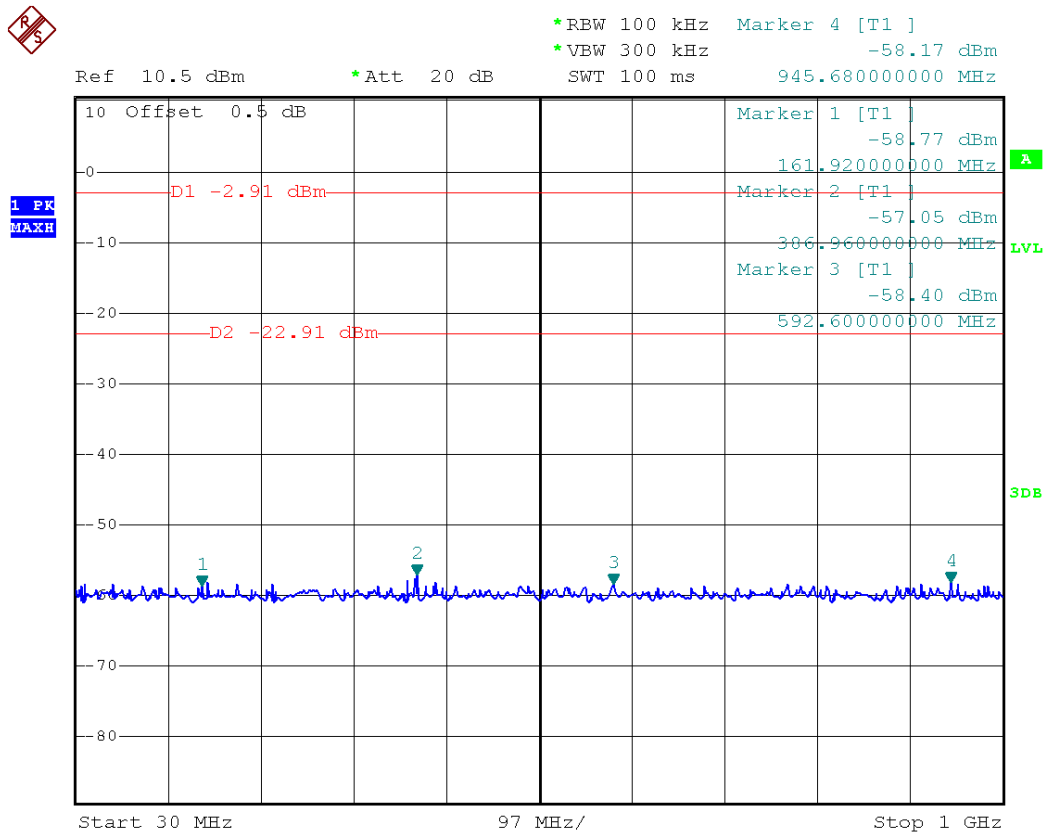
Note: The power of the Module transmitting frequency should be ignored.



(Plot A.1: Channel = 0, 30MHz to 25GHz)



(Plot B.1: Channel = 20, 30MHz to 25GHz)



(Plot C.1: Channel = 39, 30MHz to 25GHz)

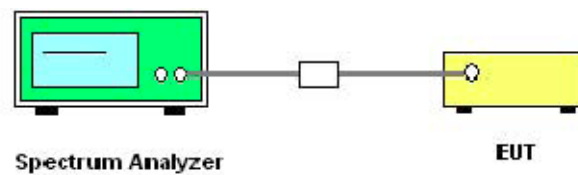
2.5. Power spectral density (PSD)

2.5.1. Requirement

According to FCC section 15.247(e), the same method of determining the conducted output power shall be used to determine the power spectral density. If a peak output power is measured, then a peak power spectral density measurement is required. If an average output power is measured, then an average power spectral density measurement should be used.

2.5.2. Test Description

Test Set:



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

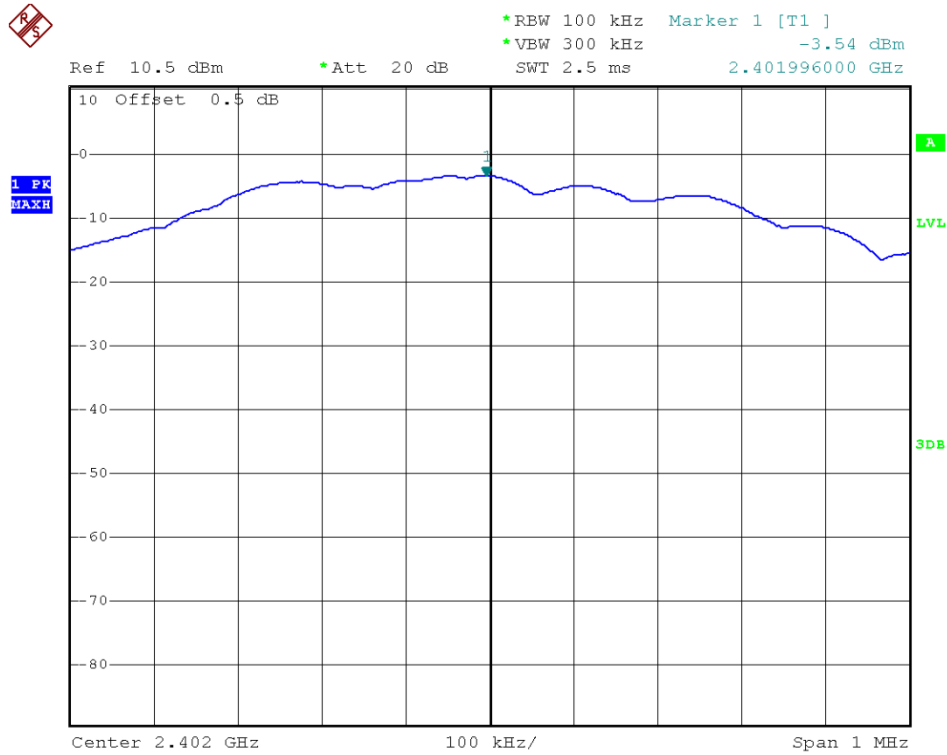
2.5.3. Test Result

The lowest, middle and highest channels are tested.

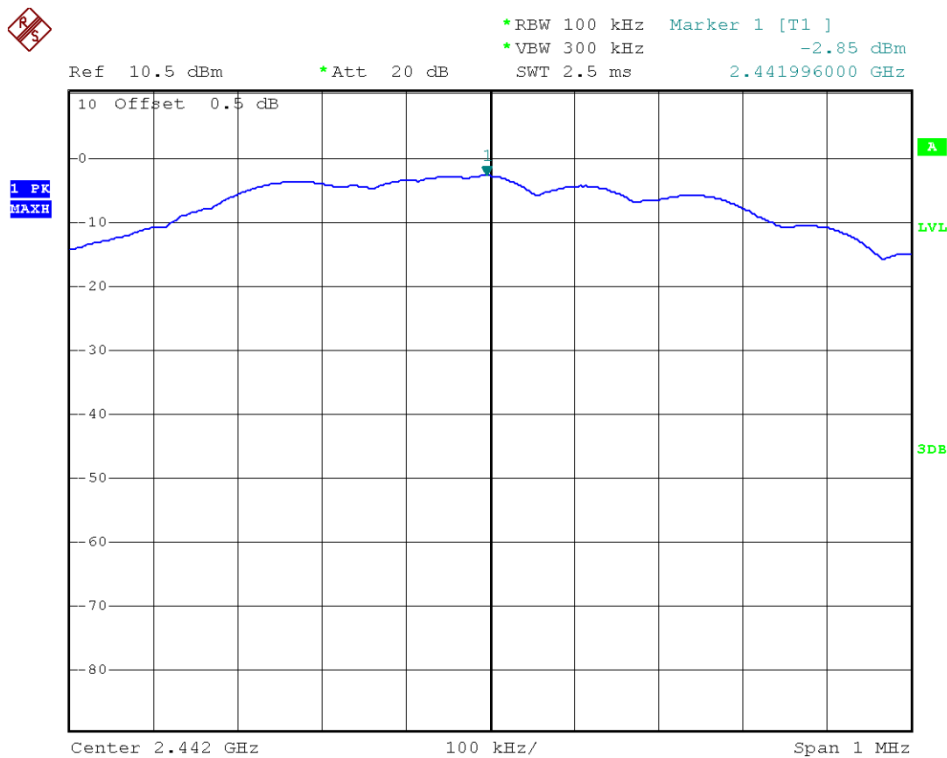
A. Test Verdict:

Spectral power density (dBm)					
Channel	Frequency (MHz)	Measured PSD (dBm)	Refer to Plot	Limit (dBm/3kHz)	Verdict
0	2402	-3.54	Plot A	8	PASS
20	2442	-2.85	Plot B	8	PASS
39	2480	-2.74	Plot C	8	PASS
Measurement uncertainty: $\pm 1.3\text{dB}$					

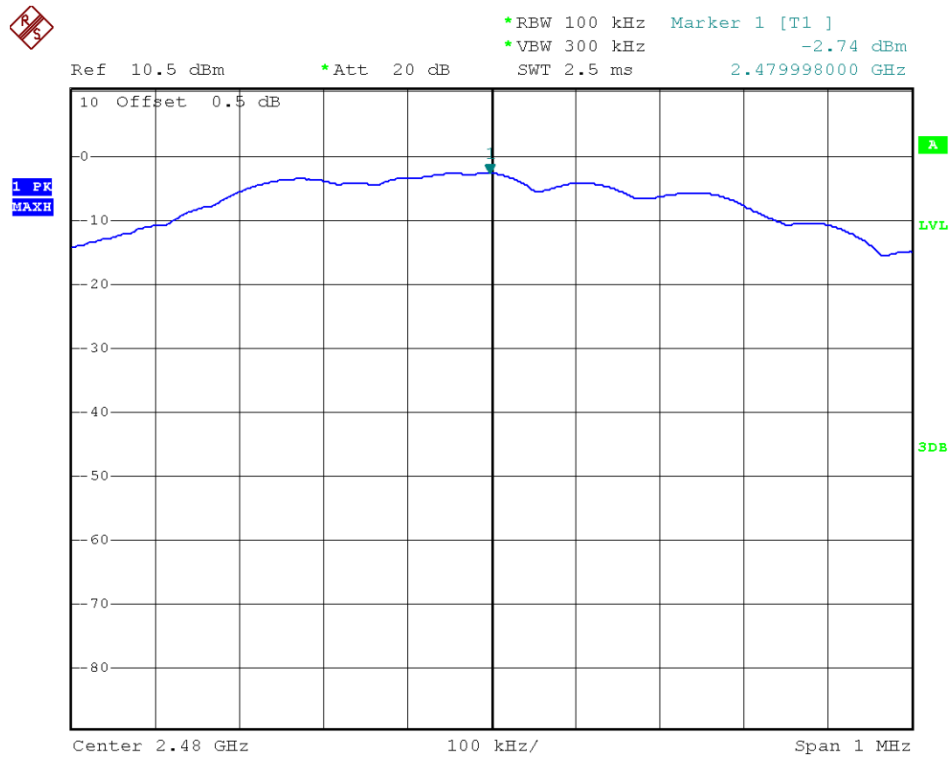
B. Test Plots:



(Plot A: Channel = 0)



(Plot B: Channel = 20)



(Plot C: Channel = 39)

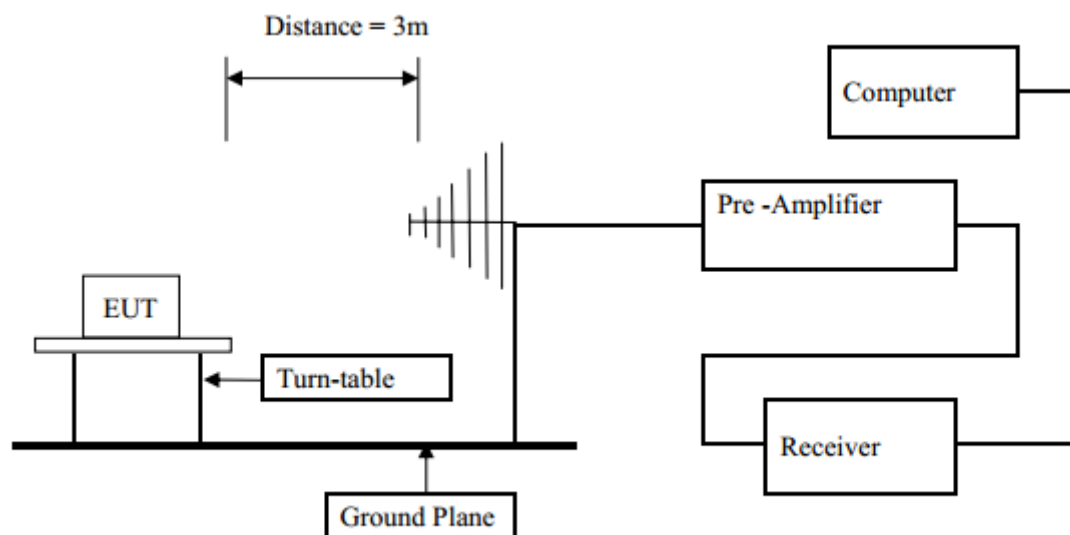
2.6. Band edge

2.6.1. Requirement

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, 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 in 15.209(a).

2.6.2. Test Description

Test Setup



The Module is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

For the Test Antenna:

Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.

2.6.3. Test Procedure

Span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation

For radiated test

RBW =1MHz ,VBW=3MHz PK detector for PK value ,

RBW=1MHz VBW=10Hz , PK detector for AV value

Trace = max hold

Allow the trace to stabilize

2.6.4. Test Result

The lowest and highest channels are tested to verify the Restricted Frequency Bands.

The measurement results are obtained as below:

$$E [\text{dB}\mu\text{V/m}] = U_R + C_{\text{Factor}}[\text{dB}] , C_{\text{Factor}} = L_{\text{Cable loss}} [\text{dB}] - G_{\text{preamp}} [\text{dB}] + A_{\text{Factor}} [\text{dB}]$$

C_{Factor} : Correction Factor

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

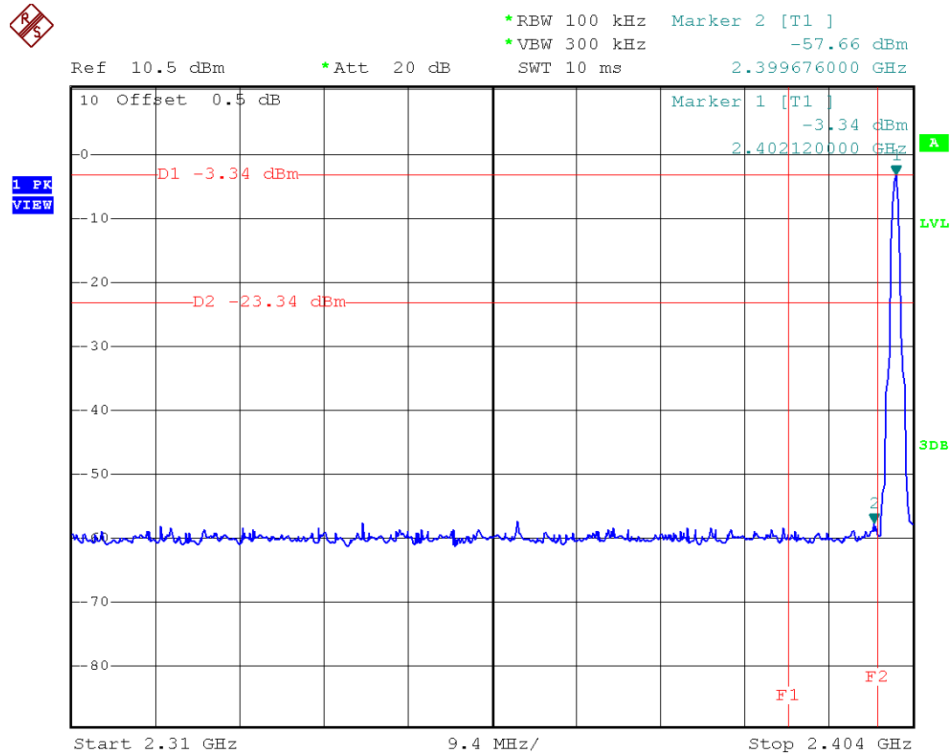
A_{Factor} : Antenna Factor at 3m

Note: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (vertical) was recorded in this test report.

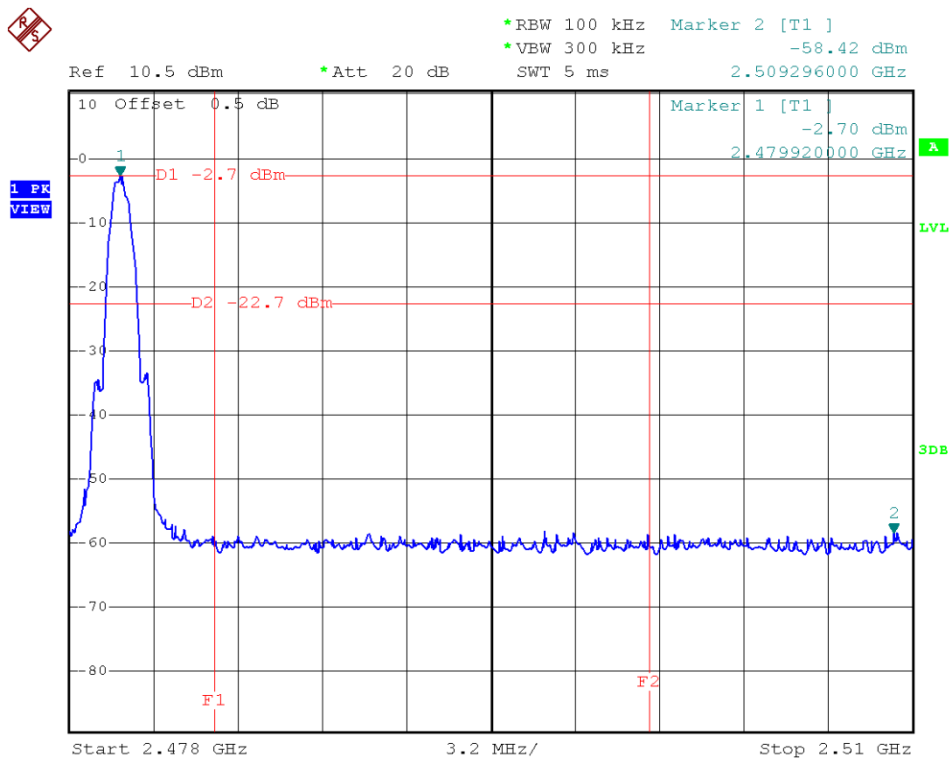
A. Test Verdict:

Channel	Frequency (MHz)	Detector	Read Level (dBμV)	Correction Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)
		PK/ AV					
0	2388.856	PK	45.67	-4.2	41.47	74.00	-32.53
0	2388.856	AV	35.22	-4.2	31.02	54.00	-22.98
39	2497.591	PK	46.28	-3.95	42.33	74.00	-31.67
39	2497.591	AV	35.96	-3.95	32.01	54.00	-21.99

B. Test Plots:



(Plot A: Channel = 0 PEAK)



(Plot B: Channel = 39 PEAK)

2.7. Radiated Emission

2.7.1. Requirement

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
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

Note:

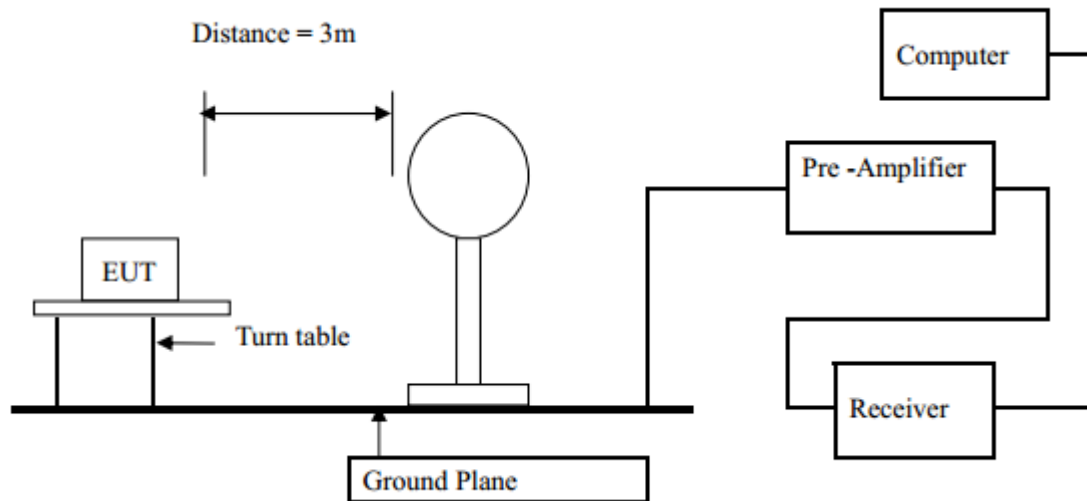
1. For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
2. For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK)

In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table)

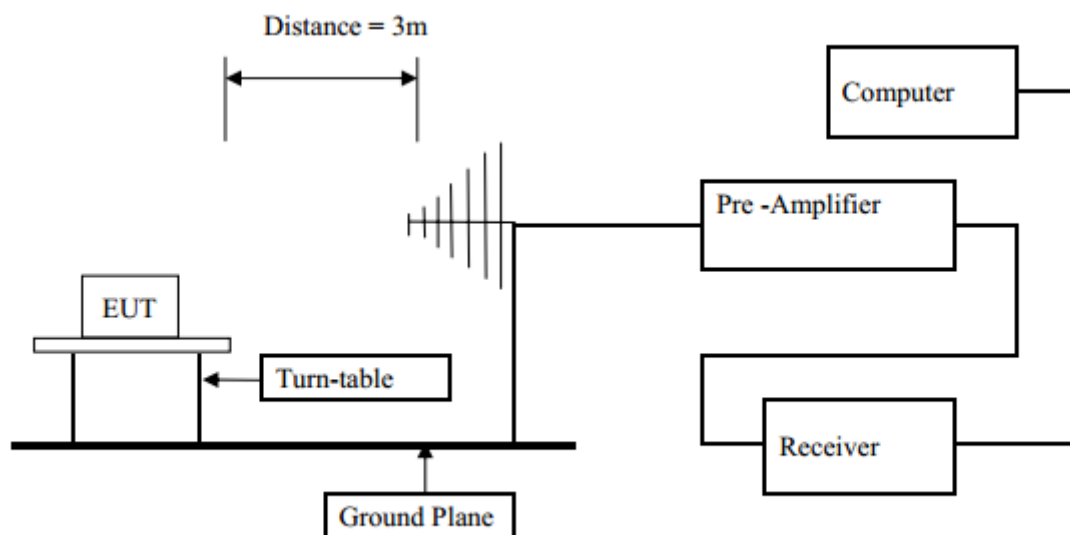
2.7.2. Test Description

A. Test Setup:

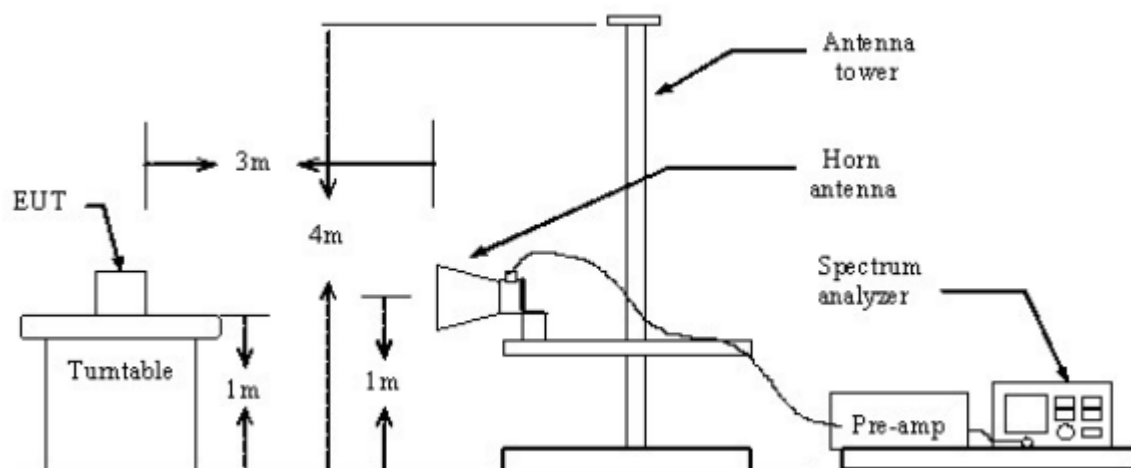
- 1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to 1GHz



3) For radiated emissions above 1GHz



The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.4 (2009). The EUT was set-up on insulator 80cm above the Ground Plane. The set-up and test methods were according to ANSI C63.4.

The EUT of the EUT is powered by the Battery charged with the AC Adapter which is powered by 120V, 60Hz AC mains supply. The Module is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading. During the measurement, the EUT is activated and controlled by the Wireless Router via a Common Antenna, and is set to operate under hopping-on test mode.

For the Test Antenna:

- (a) In the frequency range of 9kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- (b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 2GHz) and Horn Test Antenna (above 2GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

2.7.3. Test Result

According to ANSI C63.4 selection 4.2.2, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak limit, it is unnecessary to perform an quasi-peak measurement.

The measurement results are obtained as below:

$$E [\text{dB}\mu\text{V/m}] = U_R + C_{\text{Factor}}[\text{dB}], C_{\text{Factor}} = L_{\text{Cable loss}} [\text{dB}] - G_{\text{preamp}} [\text{dB}] + A_{\text{Factor}} [\text{dB}]$$

C_{Factor} : Correction Factor

$L_{\text{Cable loss}}$: Cable loss

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

During the test, the C_{Factor} were built in test software.

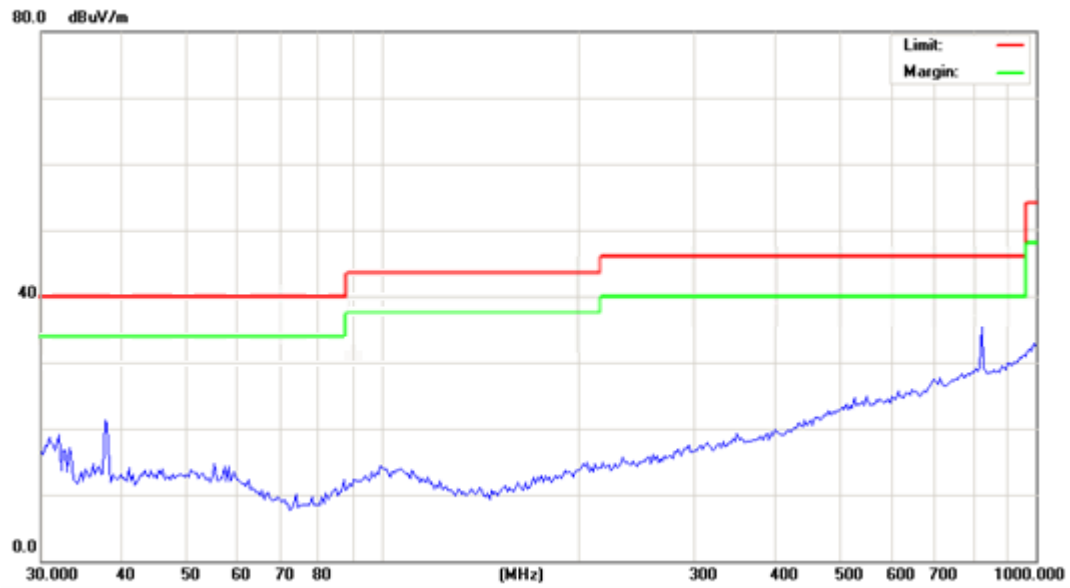
Note: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Test Plots for the Whole Measurement Frequency Range:

For 9KHz to 30MHz

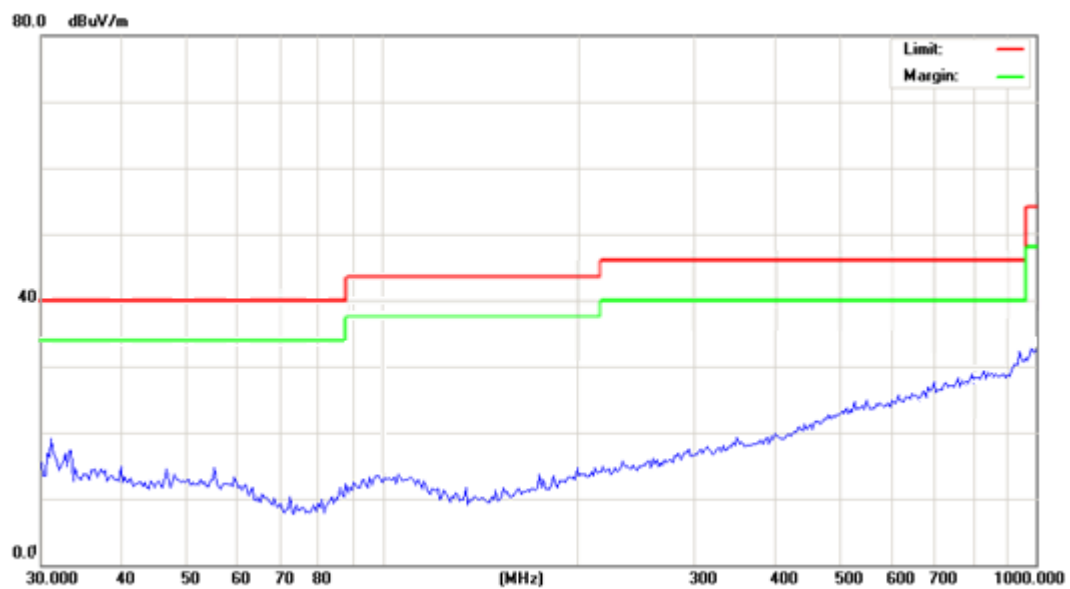
The test has been performed, and the Radiated Emission level is too low to the limit.

For 30MHz to 1000 MHz



(Plot A: 30MHz to 1GHz, Antenna Vertical)

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB μ V/m)	Antenna	Verdict
38.564782	20.36	120.000	100.0	40.00	Vertical	Pass
307.04569	19.84	120.000	100.0	46.00	Vertical	Pass
808.230000	33.38	120.000	100.0	46.00	Vertical	Pass



(Plot B: 30MHz to 1GHz, Antenna Horizontal)

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB μ V/m)	Antenna	Verdict
33.620000	18.08	120.000	100.0	40.00	Horizontal	Pass
98.801603	13.01	120.000	100.0	43.50	Horizontal	Pass
799.367040	27.89	120.000	100.0	46.00	Horizontal	Pass

For 1GHz to 25GHz

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (0CH_2402MHz)

No.	Frequency (MHz)	Read Level (dB μ V)		Correction Factor (dB)	Level (dB μ V/m)	Limit Line (dB μ V/m)	Over Limit (dB)
1	4804.00	45.56	PK	-3.94	41.62	74.00	-32.38
1	4804.00	32.16	AV	-3.94	28.22	54.00	-25.78
2	7206.00	44.24	PK	0.52	44.76	74.00	-29.24
2	7206.00	31.27	AV	0.52	31.79	54.00	-22.21
3	9608.00	44.87	PK	1.22	46.09	74.00	-27.91
3	9608.00	32.03	AV	1.22	33.25	54.00	-20.75
4	12010.00	*	PK	*	*	74.00	*
4	12010.00	*	AV	*	*	54.00	*
5	14412.00	*	PK	*	*	74.00	*
5	14412.00	*	AV	*	*	54.00	*

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (0CH_2402MHz)

No.	Frequency (MHz)	Read Level (dB μ V)		Correction Factor (dB)	Level (dB μ V/m)	Limit Line (dB μ V/m)	Over Limit (dB)
1	4804.00	44.88	PK	-3.94	40.94	74.00	-33.06
1	4804.00	31.76	AV	-3.94	27.82	54.00	-26.18
2	7206.00	45.07	PK	0.52	45.59	74.00	-28.41
2	7206.00	30.27	AV	0.52	30.79	54.00	-23.21
3	9608.00	44.37	PK	1.22	45.59	74.00	-28.41
3	9608.00	30.27	AV	1.22	31.49	54.00	-22.51
4	12010.00	*	PK	*	*	74.00	*
4	12010.00	*	AV	*	*	54.00	*
5	14412.00	*	PK	*	*	74.00	*
5	14412.00	*	AV	*	*	54.00	*

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (20CH_2442MHz)

No.	Frequency (MHz)	Read Level (dB μ V)		Correction Factor (dB)	Level (dB μ V/m)	Limit Line (dB μ V/m)	Over Limit (dB)
1	4884.00	45.01	PK	-3.98	41.03	74.00	-32.97
1	4884.00	31.98	AV	-3.98	28.00	54.00	-26.00
2	7326.00	44.71	PK	0.56	45.27	74.00	-28.73
2	7326.00	30.43	AV	0.56	30.99	54.00	-23.01
3	9768.00	43.89	PK	1.23	45.12	74.00	-28.88

3	9768.00	30.03	AV	1.23	31.26	54.00	-22.74
4	12210.00	*	PK	*	*	74.00	*
4	12210.00	*	AV	*	*	54.00	*
5	14652.00	*	PK	*	*	74.00	*
5	14652.00	*	AV	*	*	54.00	*
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (20CH_2442MHz)							
No.	Frequency (MHz)	Read Level (dBuV)		Correction Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
1	4884.00	44.82	PK	-3.98	40.84	74.00	-33.16
1	4884.00	30.32	AV	-3.98	26.34	54.00	-27.66
2	7326.00	43.88	PK	0.56	44.44	74.00	-29.56
2	7326.00	30.16	AV	0.56	30.72	54.00	-23.28
3	9768.00	44.07	PK	1.23	45.30	74.00	-28.70
3	9768.00	30.24	AV	1.23	31.47	54.00	-22.53
4	12210.00	*	PK	*	*	74.00	*
4	12210.00	*	AV	*	*	54.00	*
5	14652.00	*	PK	*	*	74.00	*
5	14652.00	*	AV	*	*	54.00	*
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (39CH_2480MHz)							
No.	Frequency (MHz)	Read Level (dBuV)		Correction Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
1	4960.00	45.18	PK	-3.98	41.20	74.00	-32.80
1	4960.00	31.54	AV	-3.98	27.56	54.00	-26.44
2	7440.00	44.29	PK	0.52	44.81	74.00	-29.19
2	7440.00	30.78	AV	0.52	31.30	54.00	-22.70
3	9920.00	45.26	PK	1.23	46.49	74.00	-27.51
3	9920.00	31.04	AV	1.23	32.27	54.00	-21.73
4	12400.00	*	PK	*	*	74.00	*
4	12400.00	*	AV	*	*	54.00	*
5	14880.00	*	PK	*	*	74.00	*
5	14880.00	*	AV	*	*	54.00	*
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (39CH_2480MHz)							
No.	Frequency (MHz)	Read Level (dBuV)		Correction Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
1	4960.00	45.82	PK	-3.98	41.84	74.00	-32.16
1	4960.00	31.69	AV	-3.98	27.71	54.00	-26.29
2	7440.00	44.36	PK	0.52	44.88	74.00	-29.12
2	7440.00	30.14	AV	0.52	30.66	54.00	-23.34
3	9920.00	43.61	PK	1.23	44.84	74.00	-29.16
3	9920.00	30.01	AV	1.23	31.24	54.00	-22.76
4	12400.00	*	PK	*	*	74.00	*
4	12400.00	*	AV	*	*	54.00	*
5	14880.00	*	PK	*	*	74.00	*
5	14880.00	*	AV	*	*	54.00	*

REMARKS:

1. Emission level (dBuV/m) = Read Level (dBuV) + Correction Factor (dB)
2. The other emission levels were very low against the limit.
3. The other emission levels were very low against the limit.
4. Margin value = Limit value- Emission level.
5. The limit value is defined as per 15.247
6. “*” means this data is the too weak instrument of signal is unable to test.

**** END OF REPORT ****