



RADIO TESTREPORT

Report No:STS1906274W14

Issued for

FX Technology Limited

38a High Street, Northwood, Middlesex, United Kingdom, HA6
1BN

Product Name:	Smartphone
Brand Name:	Fxtec
Model Name:	QX1000
Series Model:	N/A
FCC ID:	2AUCLQX1000
Test Standard:	FCC Part 15.247

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TEST RESULT CERTIFICATION

Applicant's Name..... : FX Technology Limited
 Address : 38a High Street, Northwood, Middlesex, United Kingdom, HA6 1BN
Manufacture's Name..... : UWIN INNOVATION (HONGKONG) LIMITED
 Address : 1 Queen's Road Central, Hong Kong

Product Description

Product Name : Smartphone
 Brand Name : Fxtec
 Model Name : QX1000
 SeriesModel : N/A

Test Standards..... : FCC Part15.247

Test Procedure..... ANSI C63.10-2013

This device described above has been tested by STS, 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..... : 04 June 2019 ~ 21 Aug. 2019

Date of Issue..... : 22 Aug. 2019

Test Result..... : **Pass**

Testing Engineer : 

 (ChrisChen)

Technical Manager : 

 (Sunday Hu)

Authorized Signatory : 

 (Vita Li)





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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	22 Aug. 2019	STS1906274W14	ALL	Initial Issue





1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
KDB 558074 D01 15.247 Meas Guidance v05r02

FCC Part15.247,Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	N/A	--
15.247 (a)(2)	6dB Bandwidth	PASS	--
15.247 (b)(3)	Output Power	PASS	--
15.247 (d)	Radiated Spurious Emission	PASS	--
15.247 (d)	Conducted Spurious & Band Edge Emission	PASS	--
15.247 (e)	Power Spectral Density	PASS	--
15.205	Restricted Band Edge Emission	PASS	--
Part 15.247(d)/part 15.209(a)	Band Edge Emission	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

SHENZHEN STS TEST SERVICES CO., LTD

Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 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	RF output power, conducted	± 0.71 dB
2	Unwanted Emissions, conducted	± 0.63 dB
3	All emissions, radiated 30-200MHz	± 3.43 dB
4	All emissions, radiated 200MHz-1GHz	± 3.57 dB
5	All emissions, radiated >1G	± 4.13 dB
6	Conducted Emission (9KHz-150KHz)	± 3.18 dB
7	Conducted Emission (150KHz-30MHz)	± 2.70 dB



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Smartphone	
Trade Name	Fxtec	
Model Name	QX1000	
Series Model	N/A	
Model Difference	N/A	
Product Description	The EUT is a Smartphone	
	Operation Frequency:	2402~2480 MHz
	BT Version:	5.0
	BT configuration:	LE support 1M PHY, 2M PHY, Code PHY(S=2, S=8)
	Modulation Type:	GFSK
	Radio Technology	BLE
	Number Of Channel	40
	Antenna Designation:	Please see Note 3.
Antenna Gain (dBi)	0dBi	
Channel List	Please refer to the Note 2.	
Battery	Battery(rating): Rated Voltage: 3.85V Charge Limit: 4.4V Capacity:3150mAh	
Hardware version number	T5_MB_P2	
Software version number	QX1000_EEA_20190829102646	
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)	Channel	Frequency (MHz)
00	2402	10	2422	20	2442	30	2462
01	2404	11	2424	21	2444	31	2464
02	2406	12	2426	22	2446	32	2466
03	2408	13	2428	23	2448	33	2468
04	2410	14	2430	24	2450	34	2470
05	2412	15	2432	25	2452	35	2472
06	2414	16	2434	26	2454	36	2474
07	2416	17	2436	27	2456	37	2476
08	2418	18	2438	28	2458	38	2478
08	2420	17	2440	27	2460	39	2480

3.

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	Fxtec	QX1000	PIFAAntenna	N/A	0	BLE ANT



2.2 DESCRIPTION OF TEST MODES

For conducted test items and radiated spurious emissions

Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively..

Worst Mode	Description	Data/Modulation
Mode 1	TX CH00(2402MHz)	1M PHY /GFSK
Mode 2	TX CH19(2440MHz)	1M PHY /GFSK
Mode 3	TX CH39(2480MHz)	1M PHY /GFSK

Worst Mode	Description	Data/Modulation
Mode 1	TX CH00(2402MHz)	2M PHY /GFSK
Mode 2	TX CH19(2440MHz)	2M PHY /GFSK
Mode 3	TX CH39(2480MHz)	2M PHY /GFSK

Note:

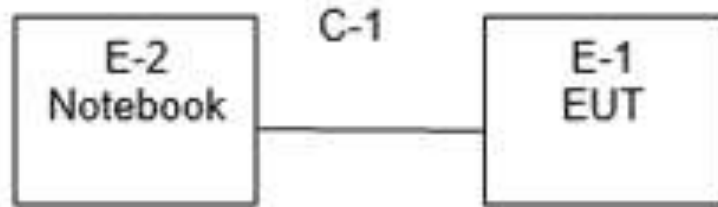
(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

(2) We have been tested for all available U.S. voltage and frequencies (For 120V, 50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/60Hz is shown in the report

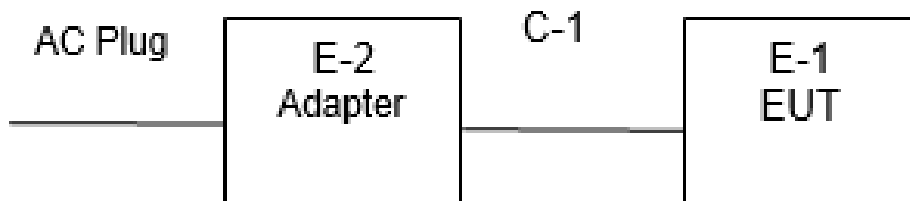
(3) Controlled using a bespoke application on the laptop PC supplied by the customer. The application was used to enable a continuous transmission mode and to select the test channels, data rates and modulation schemes as required.

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiation Test Set



conduction Test Set





2.4 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
E-2	Adapter	SWITCHING ADAPTER	ASUC71w-050912300	N/A	N/A
C1	DC Cable	N/A	110cm	N/A	N/A

Support units

Item	Shielded Type	Ferrite Core	Length	Note
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”.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2018.10.13	2019.10.12
Signal Analyzer	Agilent	N9020A	MY51110105	2019.03.02	2020.03.01
Active loop Antenna	ZHINAN	ZN30900C	16035	2018.03.11	2021.03.10
Bilog Antenna	TESEQ	CBL6111D	34678	2017.11.02	2020.11.1
Horn Antenna	SCHWARZBECK	BBHA 9120D(1201)	9120D-1343	2018.10.19	2021.10.18
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2018.03.11	2021.03.10
Pre-Amplifier(0.1M-3G Hz)	EM	EM330	060665	2018.10.13	2019.10.12
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK201808090 1	2018.10.13	2019.10.12
Temperature & Humidity	HH660	Mieo	N/A	2018.10.11	2019.10.10
turn table	EM	SC100_1	60531	N/A	N/A
Antenna mast	EM	SC100	N/A	N/A	N/A
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 RE)			

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2018.10.13	2019.10.12
LISN	R&S	ENV216	101242	2018.10.11	2019.10.10
LISN	EMCO	3810/2NM	23625	2018.10.11	2019.10.10
Temperature & Humidity	HH660	Mieo	N/A	2018.10.11	2019.10.10
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 CE)			

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2018.10.13	2019.10.12
Signal Analyzer	Agilent	N9020A	MY49100060	2018.10.13	2019.10.12
Temperature & Humidity	HH660	Mieo	N/A	2018.10.11	2019.10.10
Test SW	FARAD	LZ-RF /LzRf-3A3			



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

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.

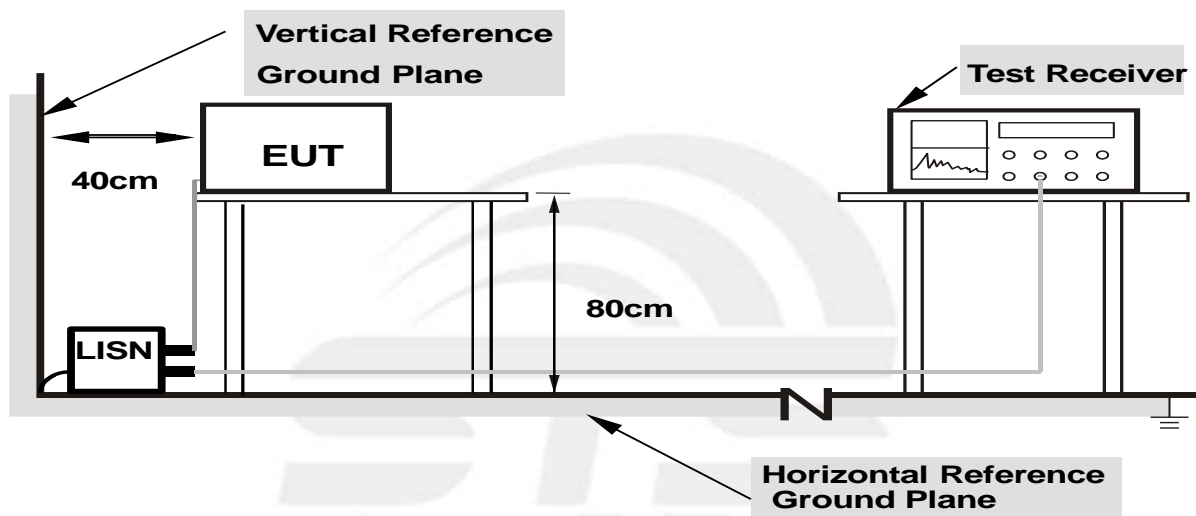
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.2 TEST PROCEDURE

- 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 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.



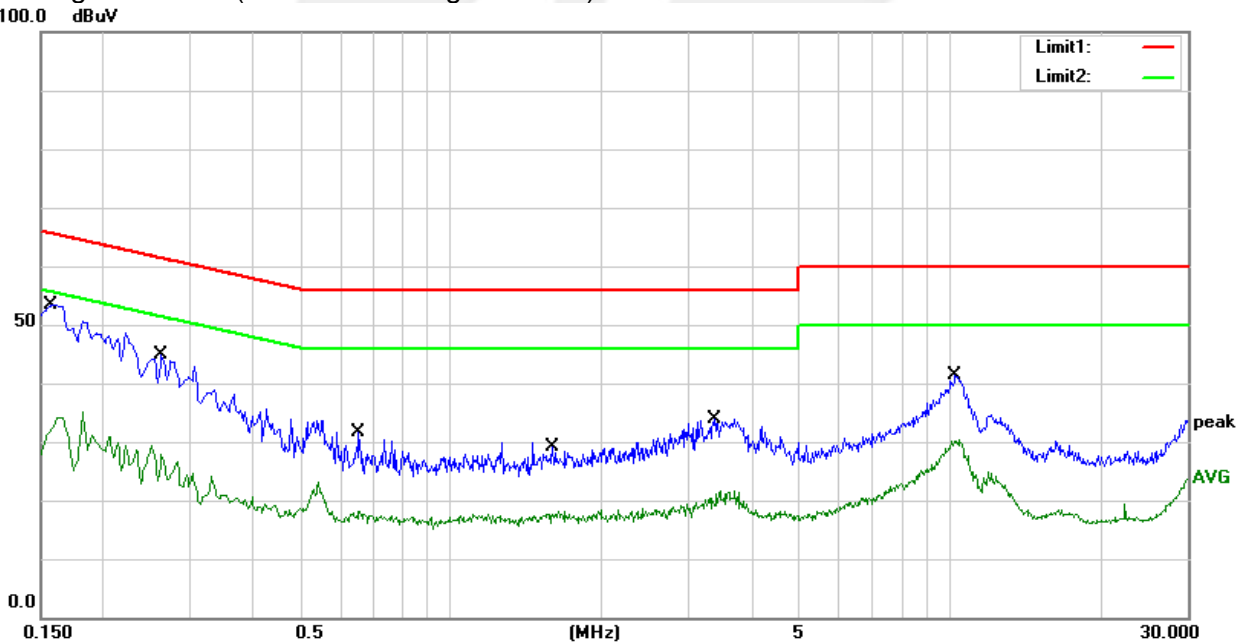
3.5 TEST RESULTS

Temperature:	24.6°C	Relative Humidity:	67%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	N/A		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1580	33.66	19.74	53.40	65.57	-12.17	QP
2	0.1580	15.33	19.74	35.07	55.57	-20.50	AVG
3	0.2620	24.68	20.09	44.77	61.37	-16.60	QP
4	0.2620	8.32	20.09	28.41	51.37	-22.96	AVG
5	0.6540	11.72	19.85	31.57	56.00	-24.43	QP
6	0.6540	-1.39	19.85	18.46	46.00	-27.54	AVG
7	1.5980	9.39	19.79	29.18	56.00	-26.82	QP
8	1.5980	-1.47	19.79	18.32	46.00	-27.68	AVG
9	3.3780	13.92	19.86	33.78	56.00	-22.22	QP
10	3.3780	1.84	19.86	21.70	46.00	-24.30	AVG
11	10.2460	21.44	19.84	41.28	60.00	-18.72	QP
12	10.2460	10.52	19.84	30.36	50.00	-19.64	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result = Reading + Factor) - Limit



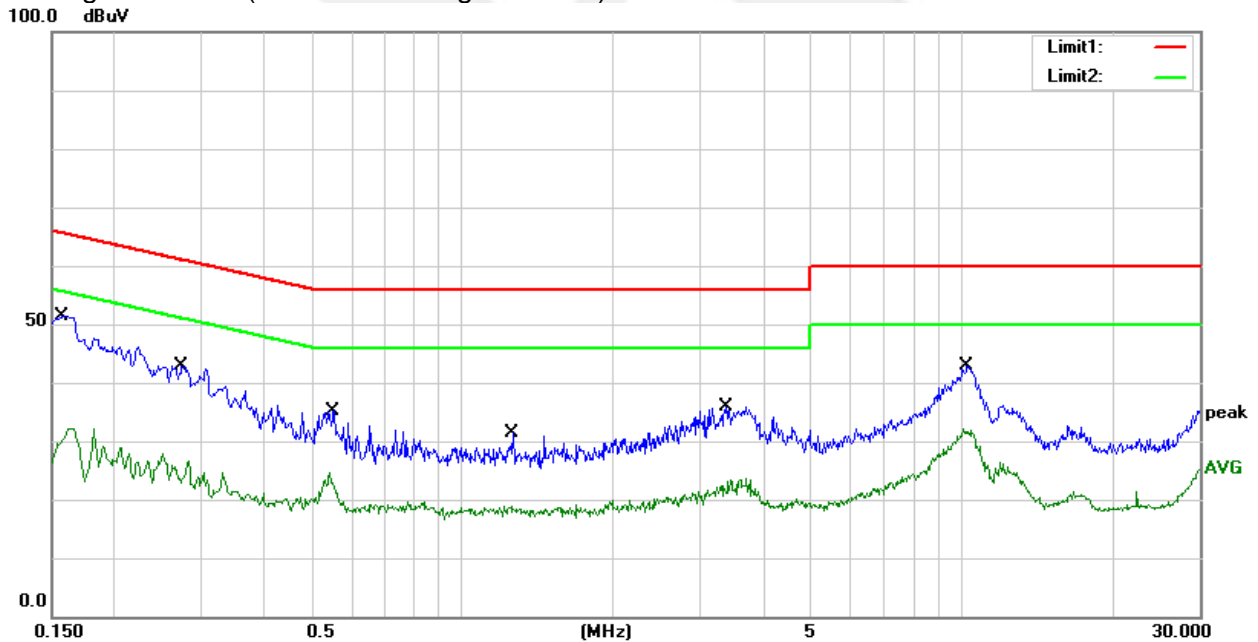


Temperature:	24.6(C)	Relative Humidity:	67%RH
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 10		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1580	31.66	19.74	51.40	65.57	-14.17	QP
2	0.1580	12.41	19.74	32.15	55.57	-23.42	AVG
3	0.2740	22.65	20.14	42.79	61.00	-18.21	QP
4	0.2740	7.75	20.14	27.89	51.00	-23.11	AVG
5	0.5500	15.33	19.91	35.24	56.00	-20.76	QP
6	0.5500	4.69	19.91	24.60	46.00	-21.40	AVG
7	1.2660	11.61	19.77	31.38	56.00	-24.62	QP
8	1.2660	-0.90	19.77	18.87	46.00	-27.13	AVG
9	3.3780	15.92	19.86	35.78	56.00	-20.22	QP
10	3.3780	3.56	19.86	23.42	46.00	-22.58	AVG
11	10.2460	22.94	19.84	42.78	60.00	-17.22	QP
12	10.2460	9.22	19.84	29.06	50.00	-20.94	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result = Reading + Factor) - Limit





4. RADIATED EMISSION MEASUREMENT

4.1 RADIATED EMISSION LIMITS

in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part 15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (Frequency Range 9kHz-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 (Above 1000MHz)

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).

For Radiated Emission

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)	1MHz / 3MHz

For Band edge

Spectrum Parameter	Setting
Detector	Peak/AV
Start/Stop Frequency	Lower Band Edge: 2300 to 2403 MHz Upper Band Edge: 2479to 2500 MHz
RB / VB (emission in restricted band)	1MHz / 3MHz



Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

4.2 TEST PROCEDURE

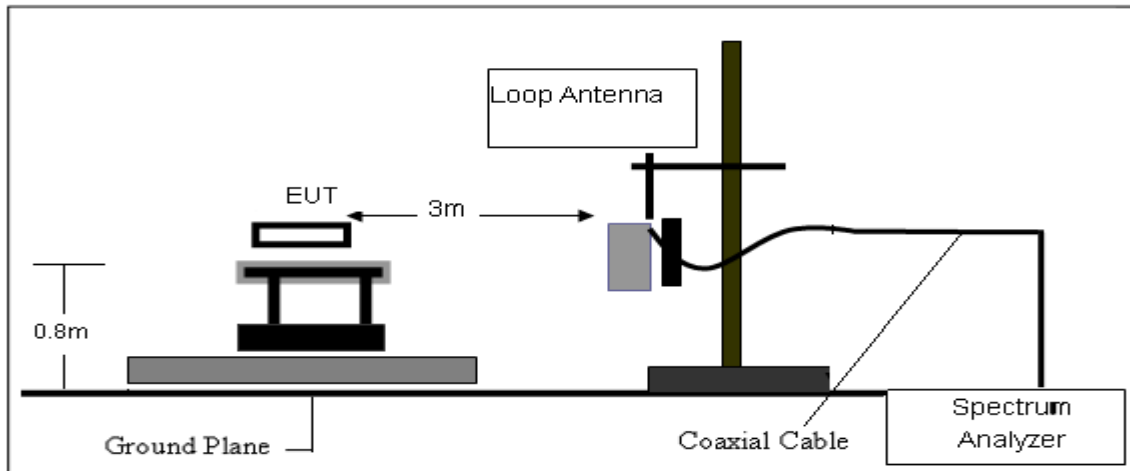
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 meters (above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine 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 Quasi Peak 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:

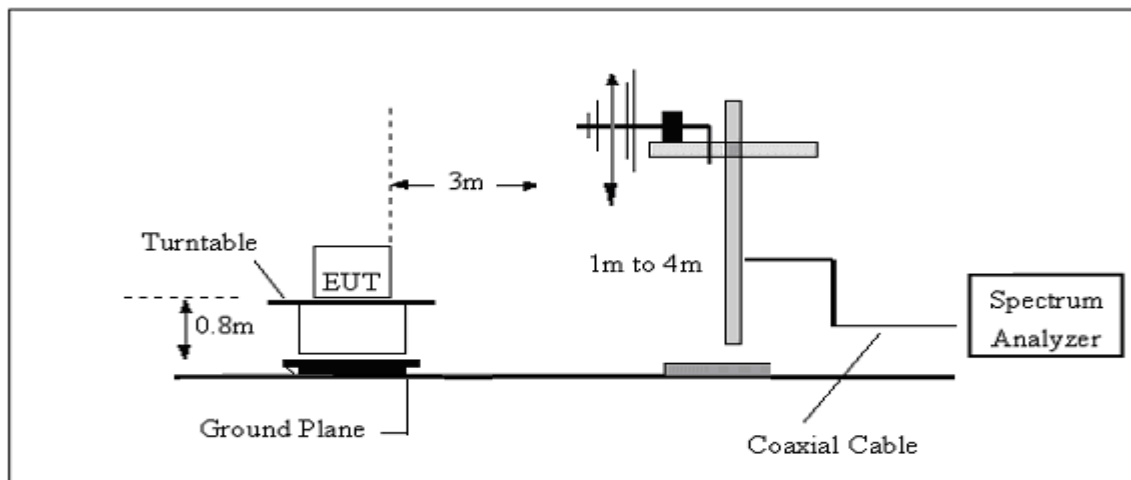
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

4.3 TEST SETUP

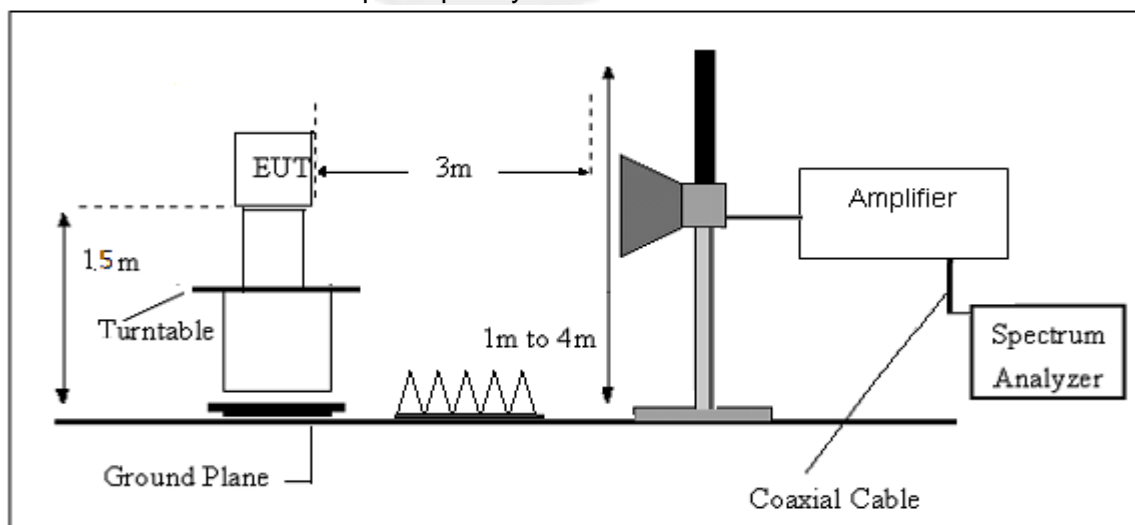
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



4.4 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.



4.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency (MHz)	FS (dB μ V/m)	RA (dB μ V/m)	AF (dB)	CL (dB)	AG (dB)	Factor (dB)
300	40	58.1	12.2	1.6	31.9	-18.1

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$





4.6 TEST RESULTS

(Between 9KHz – 30 MHz)

Temperature:	27.8°C	Relative Humidity:	42%
Test Voltage:	DC 3.85V from Battery	Polarization:	--
Test Mode:	--		

Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State 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)

1M PHY

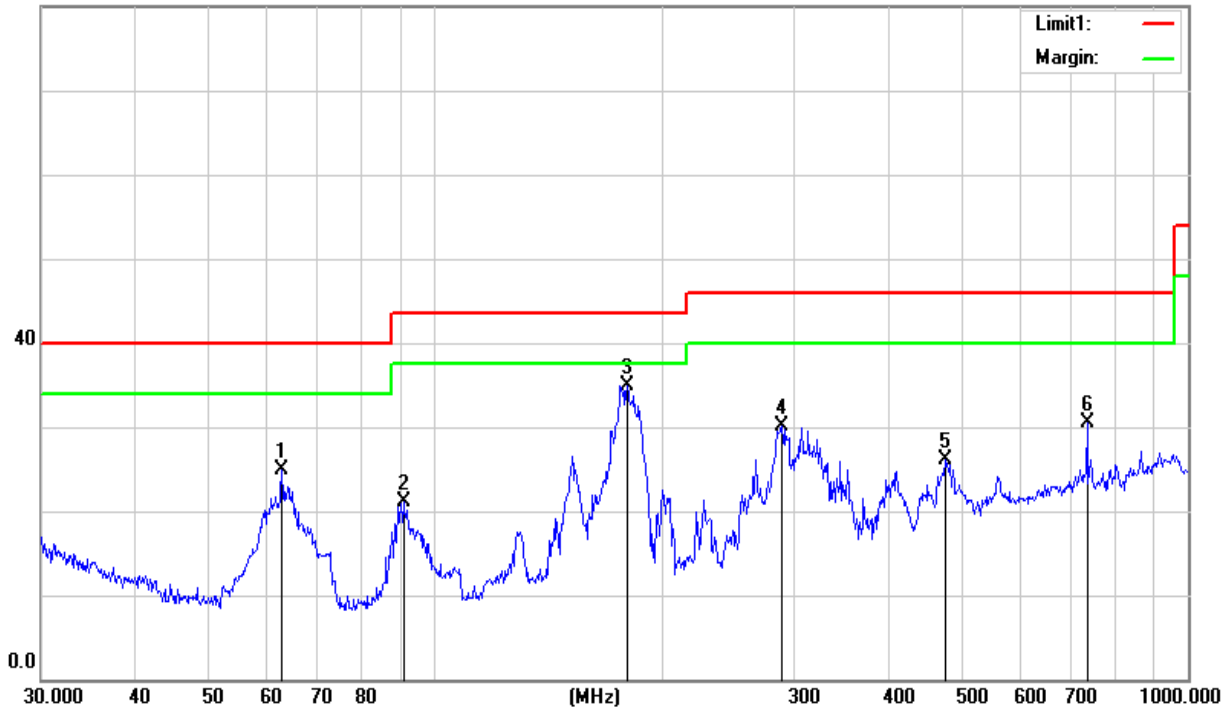
Temperature:	25.7°C	Relative Humidity:	69%
Test Voltage:	DC 3.85V from Battery	Phase:	Horizontal
Test Mode:	Mode1/2/3(Mode 2-1M worst mode)		

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
62.6507	50.85	-25.91	24.94	40.00	-15.06	QP
90.8554	42.65	-21.56	21.09	43.50	-22.41	QP
180.0165	56.42	-21.43	34.99	43.50	-8.51	QP
289.0020	47.12	-17.04	30.08	46.00	-15.92	QP
475.4990	37.86	-11.81	26.05	46.00	-19.95	QP
734.4913	36.29	-5.74	30.55	46.00	-15.45	QP

Remark:

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

80.0 dBuV/m



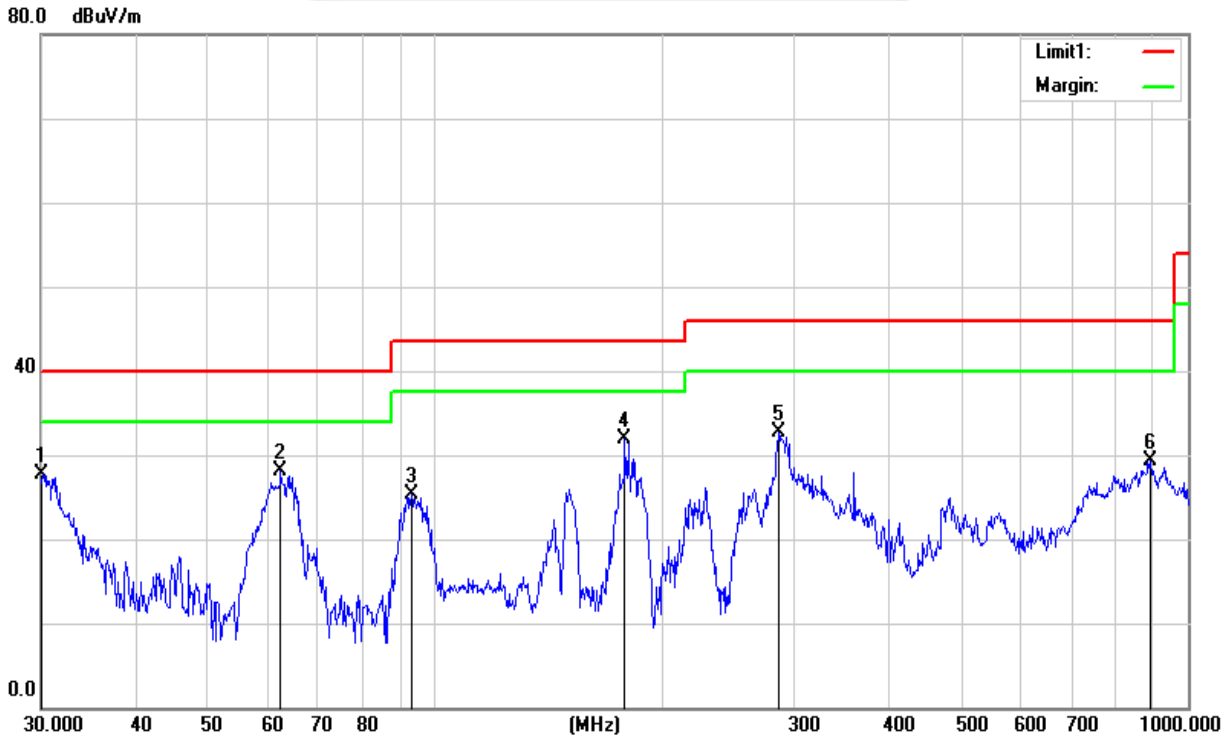


Temperature:	25.7°C	Relative Humidity:	69%
Test Voltage:	DC 3.85V from Battery	Phase:	Vertical
Test Mode:	Mode1/2/3(Mode 2-1M worst mode)		

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
30.0000	40.23	-12.45	27.78	40.00	-12.22	QP
62.4313	53.56	-25.43	28.13	40.00	-11.87	QP
93.1132	46.78	-21.43	25.35	43.50	-18.15	QP
178.7581	53.03	-21.22	31.81	43.50	-11.69	QP
285.9778	50.29	-17.59	32.70	46.00	-13.30	QP
890.7278	35.15	-5.84	29.31	46.00	-16.69	QP

Remark:

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





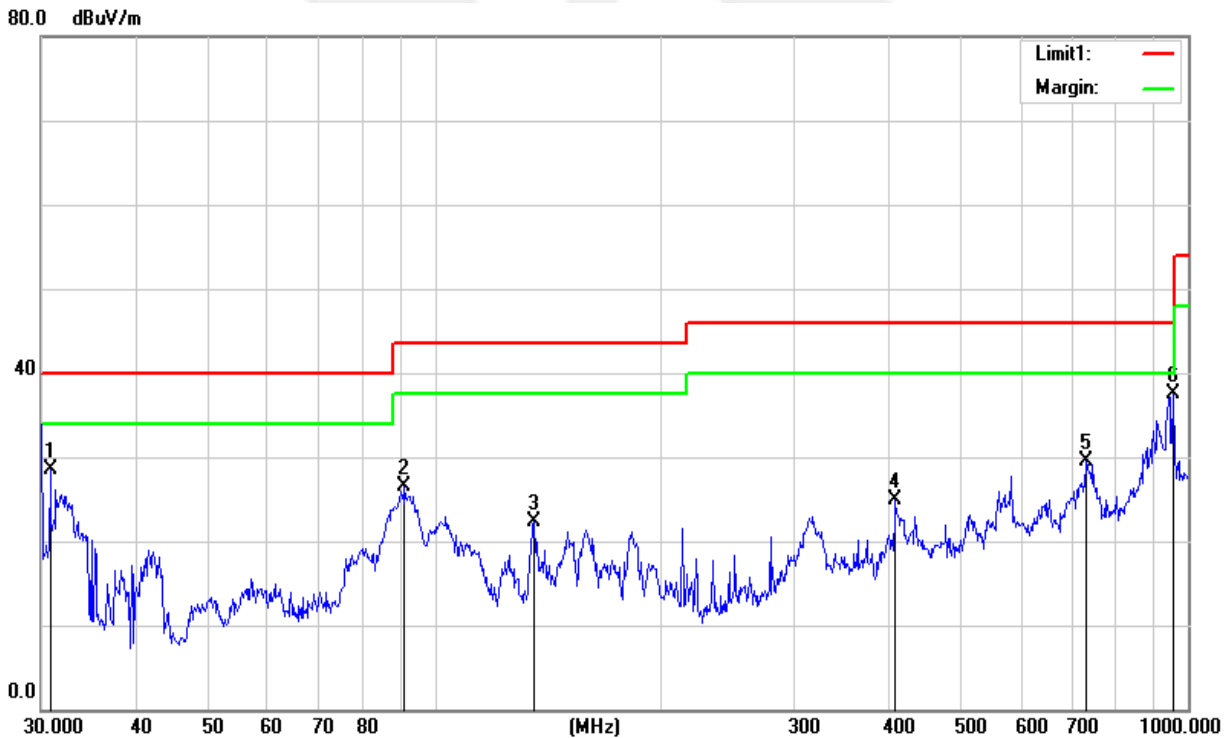
2M PHY

Temperature:	25.7°C	Relative Humidity:	69%
Test Voltage:	DC 3.85V from Battery	Phase:	Horizontal
Test Mode:	Mode1/2/3(Mode 2-1M worst mode)		

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
30.8535	41.80	-13.29	28.51	40.00	-11.49	QP
91.1746	47.76	-21.31	26.45	43.50	-17.05	QP
135.5062	40.36	-18.10	22.26	43.50	-21.24	QP
408.9460	35.60	-10.62	24.98	46.00	-21.02	QP
731.9203	31.91	-2.40	29.51	46.00	-16.49	QP
955.4381	35.79	1.68	37.47	46.00	-8.53	QP

Remark:

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



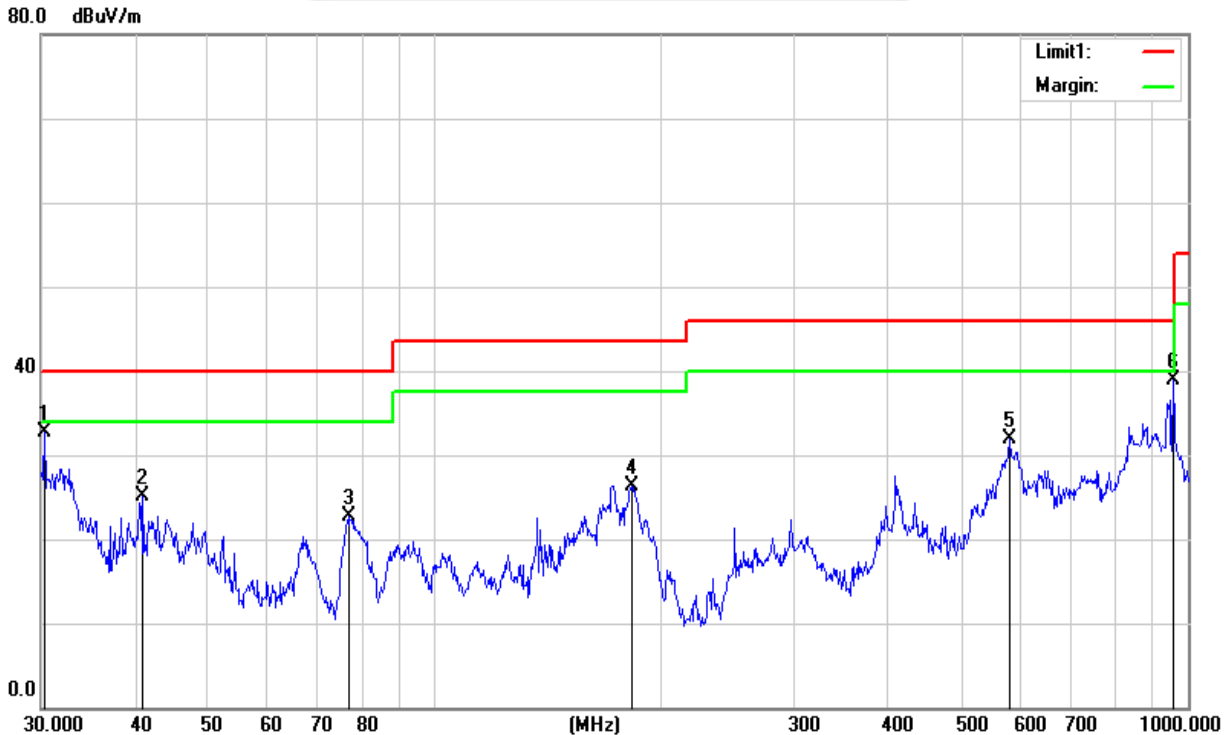


Temperature:	25.7°C	Relative Humidity:	69%
Test Voltage:	DC 3.85V from Battery	Phase:	Vertical
Test Mode:	Mode1/2/3(Mode 2-1M worst mode)		

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
30.3173	45.77	-13.01	32.76	40.00	-7.24	QP
40.9881	43.67	-18.58	25.09	40.00	-14.91	QP
77.0505	46.29	-23.55	22.74	40.00	-17.26	QP
182.5592	46.51	-20.20	26.31	43.50	-17.19	QP
578.6700	37.56	-5.74	31.82	46.00	-14.18	QP
955.4381	37.22	1.68	38.90	46.00	-7.10	QP

Remark:

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





(1GHz-25GHz) Restricted band and Spurious emission Requirements

1M PHY
Low Channel

Frequency (MHz)	Reading (dBμV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
Low Channel (2402 MHz)										
3264.74	48.90	44.70	6.70	28.20	-9.80	39.10	74.00	-34.90	PK	Vertical
3264.74	38.33	44.70	6.70	28.20	-9.80	28.53	54.00	-25.47	AV	Vertical
3264.67	48.17	44.70	6.70	28.20	-9.80	38.37	74.00	-35.63	PK	Horizontal
3264.67	39.10	44.70	6.70	28.20	-9.80	29.30	54.00	-24.70	AV	Horizontal
4804.53	58.63	44.20	9.04	31.60	-3.56	55.07	74.00	-18.93	PK	Vertical
4804.53	39.16	44.20	9.04	31.60	-3.56	35.60	54.00	-18.40	AV	Vertical
4804.59	58.69	44.20	9.04	31.60	-3.56	55.13	74.00	-18.87	PK	Horizontal
4804.59	38.33	44.20	9.04	31.60	-3.56	34.77	54.00	-19.23	AV	Horizontal
5359.83	45.75	44.20	9.86	32.00	-2.34	43.41	74.00	-30.59	PK	Vertical
5359.83	37.25	44.20	9.86	32.00	-2.34	34.91	54.00	-19.09	AV	Vertical
5359.85	45.61	44.20	9.86	32.00	-2.34	43.27	74.00	-30.73	PK	Horizontal
5359.85	37.05	44.20	9.86	32.00	-2.34	34.71	54.00	-19.29	AV	Horizontal
7205.88	51.42	43.50	11.40	35.50	3.40	54.82	74.00	-19.18	PK	Vertical
7205.88	33.12	43.50	11.40	35.50	3.40	36.52	54.00	-17.48	AV	Vertical
7205.78	51.20	43.50	11.40	35.50	3.40	54.60	74.00	-19.40	PK	Horizontal
7205.78	33.76	43.50	11.40	35.50	3.40	37.16	54.00	-16.84	AV	Horizontal



Mid Channel

Frequency (MHz)	Reading (dBμV)	Amplifier (dB)	Loss (dB)	Antenna	Corrected	Emission		Margin (dB)	Detector Type	Comment
				Factor (dB/m)	Factor (dB)	Level (dBμV/m)	Limits (dBμV/m)			
Mid Channel (2440 MHz)										
3264.87	48.81	44.70	6.70	28.20	-9.80	39.01	74.00	-34.99	PK	Vertical
3264.87	39.43	44.70	6.70	28.20	-9.80	29.63	54.00	-24.37	AV	Vertical
3264.58	48.69	44.70	6.70	28.20	-9.80	38.89	74.00	-35.11	PK	Horizontal
3264.58	38.78	44.70	6.70	28.20	-9.80	28.98	54.00	-25.02	AV	Horizontal
4880.48	59.15	44.20	9.04	31.60	-3.56	55.59	74.00	-18.41	PK	Vertical
4880.48	38.14	44.20	9.04	31.60	-3.56	34.58	54.00	-19.42	AV	Vertical
4880.32	58.63	44.20	9.04	31.60	-3.56	55.07	74.00	-18.93	PK	Horizontal
4880.32	39.15	44.20	9.04	31.60	-3.56	35.59	54.00	-18.41	AV	Horizontal
5359.87	45.55	44.20	9.86	32.00	-2.34	43.21	74.00	-30.79	PK	Vertical
5359.87	37.97	44.20	9.86	32.00	-2.34	35.63	54.00	-18.37	AV	Vertical
5359.82	45.90	44.20	9.86	32.00	-2.34	43.56	74.00	-30.44	PK	Horizontal
5359.82	37.91	44.20	9.86	32.00	-2.34	35.57	54.00	-18.43	AV	Horizontal
7310.92	51.73	43.50	11.40	35.50	3.40	55.13	74.00	-18.87	PK	Vertical
7310.92	33.52	43.50	11.40	35.50	3.40	36.92	54.00	-17.08	AV	Vertical
7310.76	51.81	43.50	11.40	35.50	3.40	55.21	74.00	-18.79	PK	Horizontal
7310.76	33.93	43.50	11.40	35.50	3.40	37.33	54.00	-16.67	AV	Horizontal



High Channel

Frequency (MHz)	Reading (dBμV)	Amplifier (dB)	Loss (dB)	Antenna	Corrected	Emission				
				Factor (dB/m)	Factor (dB)	Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
High Channel (2480 MHz)										
3264.83	48.85	44.70	6.70	28.20	-9.80	39.05	74.00	-34.95	PK	Vertical
3264.83	37.99	44.70	6.70	28.20	-9.80	28.19	54.00	-25.81	AV	Vertical
3264.58	49.22	44.70	6.70	28.20	-9.80	39.42	74.00	-34.58	PK	Horizontal
3264.58	37.87	44.70	6.70	28.20	-9.80	28.07	54.00	-25.93	AV	Horizontal
4960.36	59.50	44.20	9.04	31.60	-3.56	55.94	74.00	-18.06	PK	Vertical
4960.36	38.16	44.20	9.04	31.60	-3.56	34.60	54.00	-19.40	AV	Vertical
4960.47	58.61	44.20	9.04	31.60	-3.56	55.05	74.00	-18.95	PK	Horizontal
4960.47	38.55	44.20	9.04	31.60	-3.56	34.99	54.00	-19.01	AV	Horizontal
5359.72	46.09	44.20	9.86	32.00	-2.34	43.75	74.00	-30.25	PK	Vertical
5359.72	37.80	44.20	9.86	32.00	-2.34	35.46	54.00	-18.54	AV	Vertical
5359.67	46.16	44.20	9.86	32.00	-2.34	43.82	74.00	-30.18	PK	Horizontal
5359.67	38.14	44.20	9.86	32.00	-2.34	35.80	54.00	-18.20	AV	Horizontal
7439.89	51.55	43.50	11.40	35.50	3.40	54.95	74.00	-19.05	PK	Vertical
7439.89	33.22	43.50	11.40	35.50	3.40	36.62	54.00	-17.38	AV	Vertical
7439.67	51.12	43.50	11.40	35.50	3.40	54.52	74.00	-19.48	PK	Horizontal
7439.67	32.60	43.50	11.40	35.50	3.40	36.00	54.00	-18.00	AV	Horizontal

Note:

1) Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Emission Level = Reading + Factor

2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.



2M PHY Low Channel

Frequency (MHz)	Reading (dBμV)	Amplifier (dB)	Loss (dB)	Antenna	Corrected	Emission	Limits (dBμV/m)	Margin (dB)	Detector	
				Factor (dB/m)	Factor (dB)	Level (dBμV/m)			Type	Comment
Low Channel (2402 MHz)										
3264.86	48.88	44.70	6.70	28.20	-9.80	39.08	74.00	-34.92	PK	Vertical
3264.86	39.81	44.70	6.70	28.20	-9.80	30.01	54.00	-23.99	AV	Vertical
3264.81	48.32	44.70	6.70	28.20	-9.80	38.52	74.00	-35.48	PK	Horizontal
3264.81	38.09	44.70	6.70	28.20	-9.80	28.29	54.00	-25.71	AV	Horizontal
4804.34	58.39	44.20	9.04	31.60	-3.56	54.83	74.00	-19.17	PK	Vertical
4804.34	39.03	44.20	9.04	31.60	-3.56	35.47	54.00	-18.53	AV	Vertical
4804.46	58.29	44.20	9.04	31.60	-3.56	54.73	74.00	-19.27	PK	Horizontal
4804.46	39.55	44.20	9.04	31.60	-3.56	35.99	54.00	-18.01	AV	Horizontal
5359.82	45.36	44.20	9.86	32.00	-2.34	43.02	74.00	-30.98	PK	Vertical
5359.82	37.56	44.20	9.86	32.00	-2.34	35.22	54.00	-18.78	AV	Vertical
5359.68	46.28	44.20	9.86	32.00	-2.34	43.94	74.00	-30.06	PK	Horizontal
5359.68	37.32	44.20	9.86	32.00	-2.34	34.98	54.00	-19.02	AV	Horizontal
7205.71	50.62	43.50	11.40	35.50	3.40	54.02	74.00	-19.98	PK	Vertical
7205.71	33.30	43.50	11.40	35.50	3.40	36.70	54.00	-17.30	AV	Vertical
7205.94	51.12	43.50	11.40	35.50	3.40	54.52	74.00	-19.48	PK	Horizontal
7205.94	33.94	43.50	11.40	35.50	3.40	37.34	54.00	-16.66	AV	Horizontal



Mid Channel

Frequency (MHz)	Reading (dBμV)	Amplifier (dB)	Loss (dB)	Antenna	Corrected	Emission		Margin (dB)	Detector Type	Comment
				Factor (dB/m)	Factor (dB)	Level (dBμV/m)	Limits (dBμV/m)			
Mid Channel (2440 MHz)										
3264.69	48.78	44.70	6.70	28.20	-9.80	38.98	74.00	-35.02	PK	Vertical
3264.69	38.06	44.70	6.70	28.20	-9.80	28.26	54.00	-25.74	AV	Vertical
3264.56	48.60	44.70	6.70	28.20	-9.80	38.80	74.00	-35.20	PK	Horizontal
3264.56	39.00	44.70	6.70	28.20	-9.80	29.20	54.00	-24.80	AV	Horizontal
4880.50	59.22	44.20	9.04	31.60	-3.56	55.66	74.00	-18.34	PK	Vertical
4880.50	39.49	44.20	9.04	31.60	-3.56	35.93	54.00	-18.07	AV	Vertical
4880.36	59.05	44.20	9.04	31.60	-3.56	55.49	74.00	-18.51	PK	Horizontal
4880.36	38.31	44.20	9.04	31.60	-3.56	34.75	54.00	-19.25	AV	Horizontal
5359.88	45.69	44.20	9.86	32.00	-2.34	43.35	74.00	-30.65	PK	Vertical
5359.88	37.97	44.20	9.86	32.00	-2.34	35.63	54.00	-18.37	AV	Vertical
5359.82	45.78	44.20	9.86	32.00	-2.34	43.44	74.00	-30.56	PK	Horizontal
5359.82	38.11	44.20	9.86	32.00	-2.34	35.77	54.00	-18.23	AV	Horizontal
7310.77	50.84	43.50	11.40	35.50	3.40	54.24	74.00	-19.76	PK	Vertical
7310.77	33.25	43.50	11.40	35.50	3.40	36.65	54.00	-17.35	AV	Vertical
7310.67	50.69	43.50	11.40	35.50	3.40	54.09	74.00	-19.91	PK	Horizontal
7310.67	32.92	43.50	11.40	35.50	3.40	36.32	54.00	-17.68	AV	Horizontal



High Channel

Frequency (MHz)	Reading (dBμV)	Amplifier (dB)	Loss (dB)	Antenna	Corrected	Emission				
				Factor (dB/m)	Factor (dB)	Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
High Channel (2480 MHz)										
3264.86	49.22	44.70	6.70	28.20	-9.80	39.42	74.00	-34.58	PK	Vertical
3264.86	39.81	44.70	6.70	28.20	-9.80	30.01	54.00	-23.99	AV	Vertical
3264.79	48.49	44.70	6.70	28.20	-9.80	38.69	74.00	-35.31	PK	Horizontal
3264.79	38.60	44.70	6.70	28.20	-9.80	28.80	54.00	-25.20	AV	Horizontal
4960.40	58.96	44.20	9.04	31.60	-3.56	55.40	74.00	-18.60	PK	Vertical
4960.40	38.47	44.20	9.04	31.60	-3.56	34.91	54.00	-19.09	AV	Vertical
4960.48	58.90	44.20	9.04	31.60	-3.56	55.34	74.00	-18.66	PK	Horizontal
4960.48	38.70	44.20	9.04	31.60	-3.56	35.14	54.00	-18.86	AV	Horizontal
5359.86	45.42	44.20	9.86	32.00	-2.34	43.08	74.00	-30.92	PK	Vertical
5359.86	37.60	44.20	9.86	32.00	-2.34	35.26	54.00	-18.74	AV	Vertical
5359.59	45.46	44.20	9.86	32.00	-2.34	43.12	74.00	-30.88	PK	Horizontal
5359.59	38.33	44.20	9.86	32.00	-2.34	35.99	54.00	-18.01	AV	Horizontal
7439.95	51.48	43.50	11.40	35.50	3.40	54.88	74.00	-19.12	PK	Vertical
7439.95	32.91	43.50	11.40	35.50	3.40	36.31	54.00	-17.69	AV	Vertical
7439.75	50.74	43.50	11.40	35.50	3.40	54.14	74.00	-19.86	PK	Horizontal
7439.75	33.93	43.50	11.40	35.50	3.40	37.33	54.00	-16.67	AV	Horizontal

Note:

1) Factor = Antenna Factor + Cable Loss – Pre-amplifier.

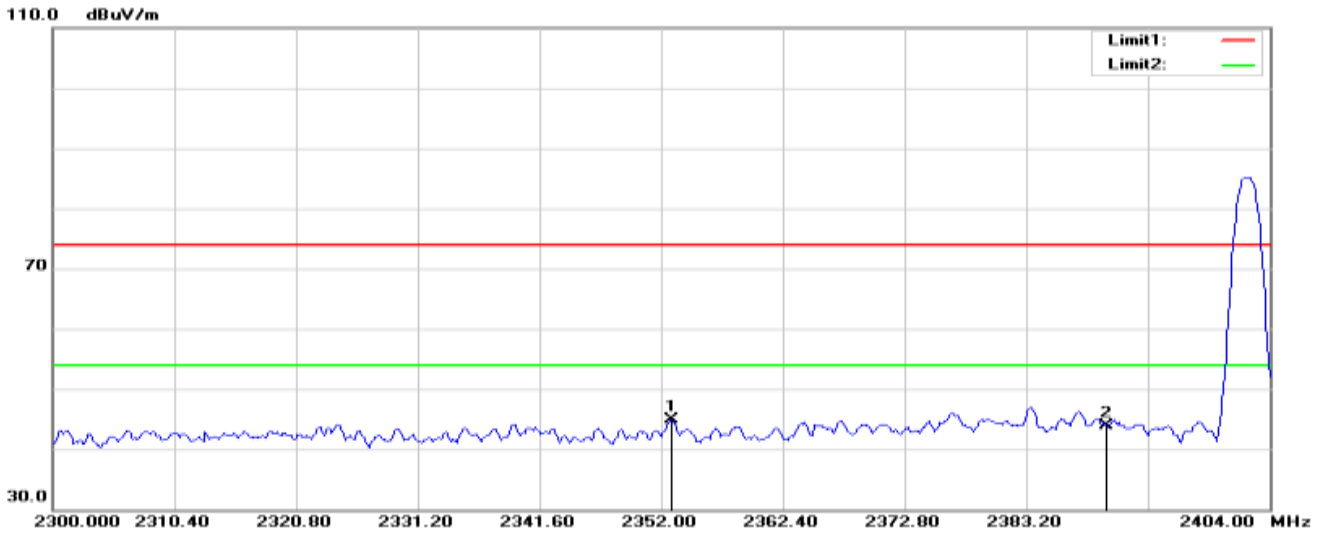
Emission Level = Reading + Factor

2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.



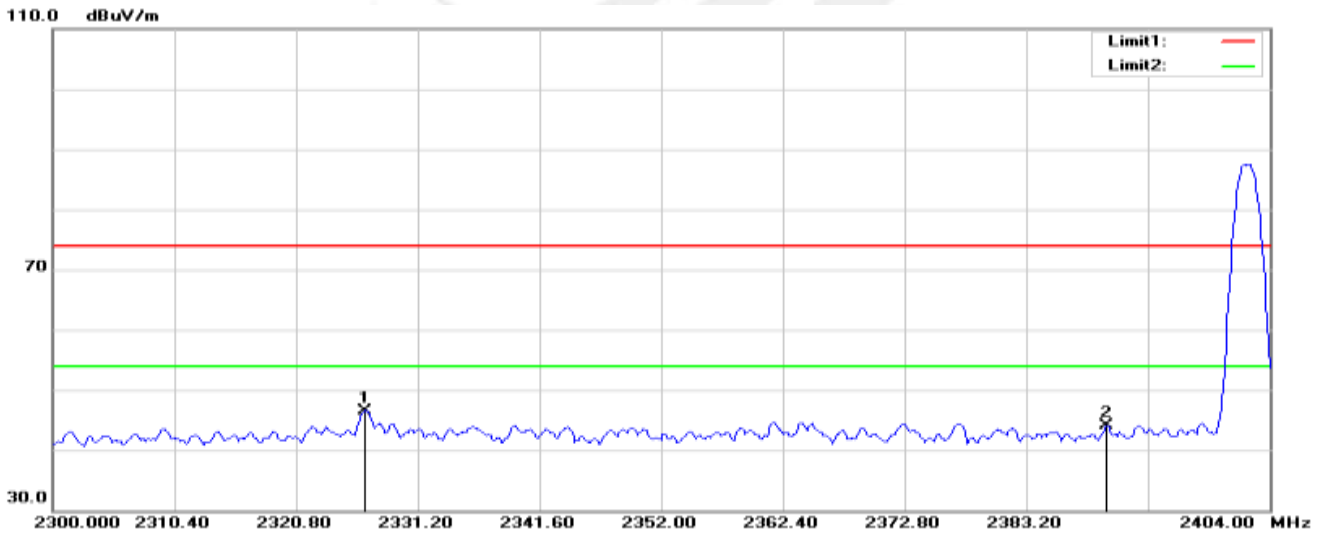
4.6 TEST RESULTS(Restricted Bands Requirements)

1M PHY
GFSK-Low
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2352.832	41.14	3.78	44.92	74.00	-29.08	peak
2	2390.000	39.53	4.34	43.87	74.00	-30.13	peak

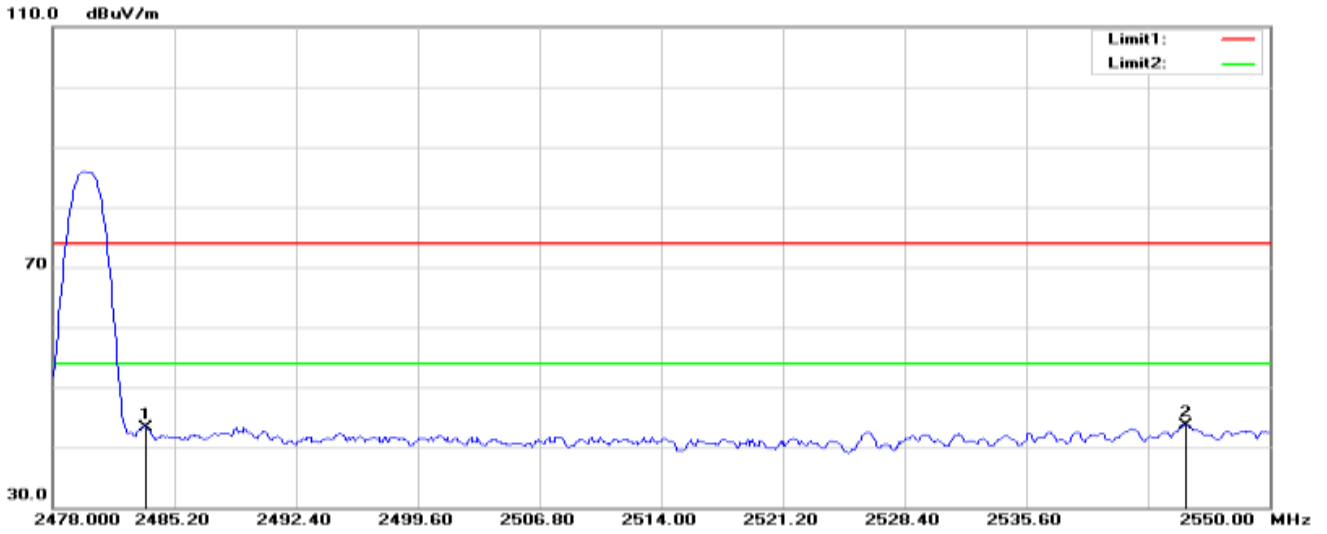
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2326.728	42.99	3.61	46.60	74.00	-27.40	peak
2	2390.000	39.80	4.34	44.14	74.00	-29.86	peak

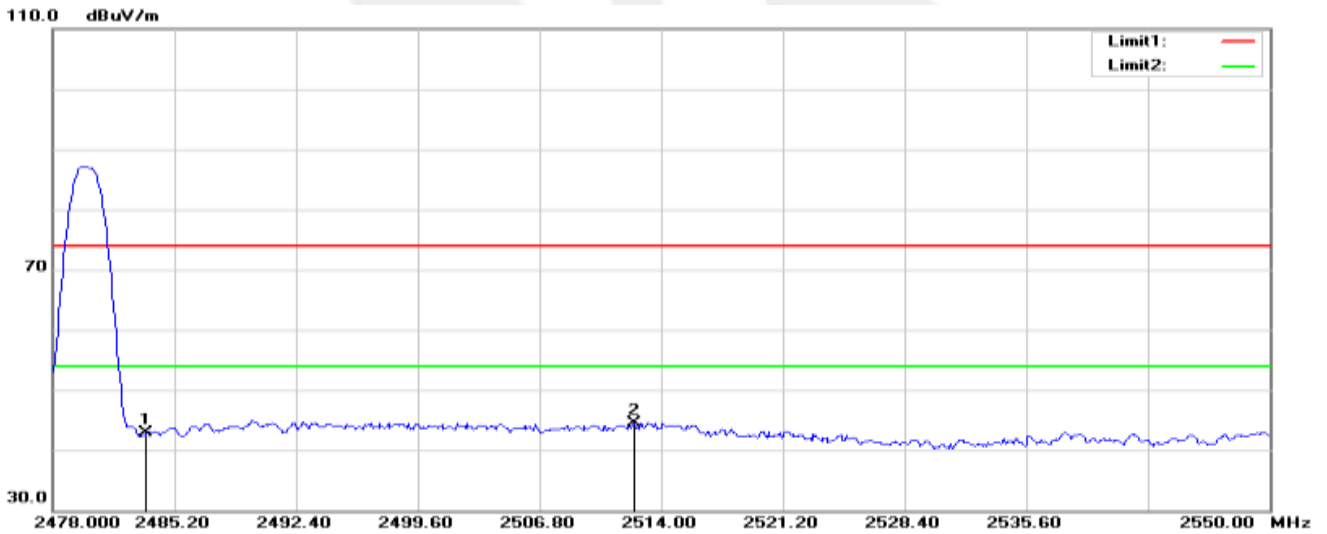


GFSK-High
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	38.71	4.60	43.31	74.00	-30.69	peak
2	2545.032	38.85	4.94	43.79	74.00	-30.21	peak

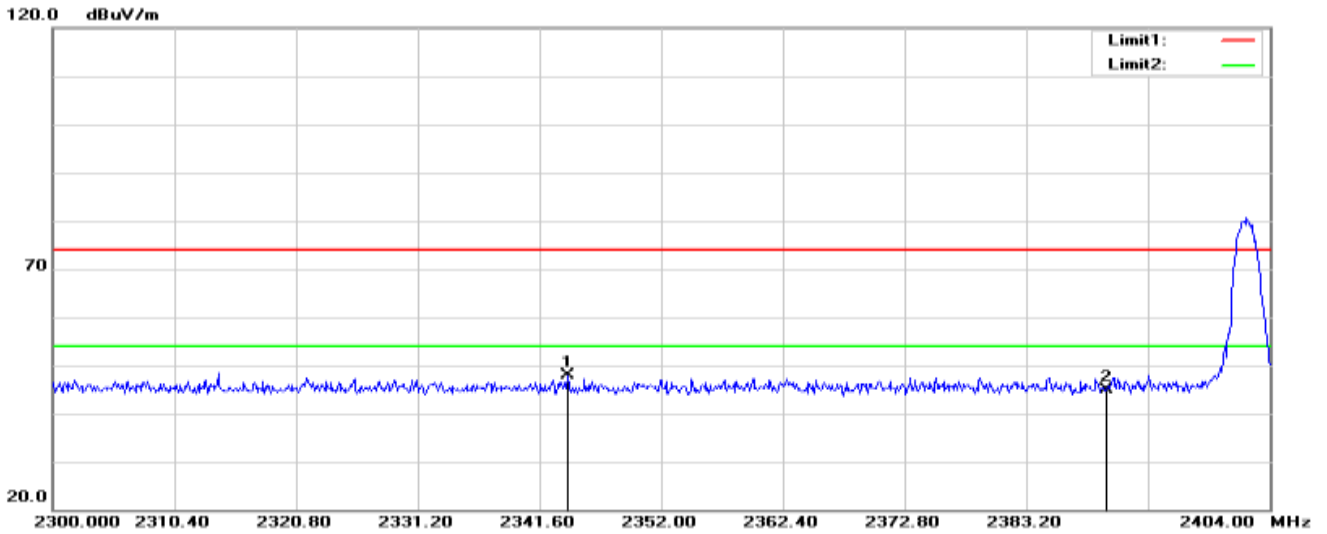
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	38.36	4.60	42.96	74.00	-31.04	peak
2	2512.416	39.77	4.73	44.50	74.00	-29.50	peak

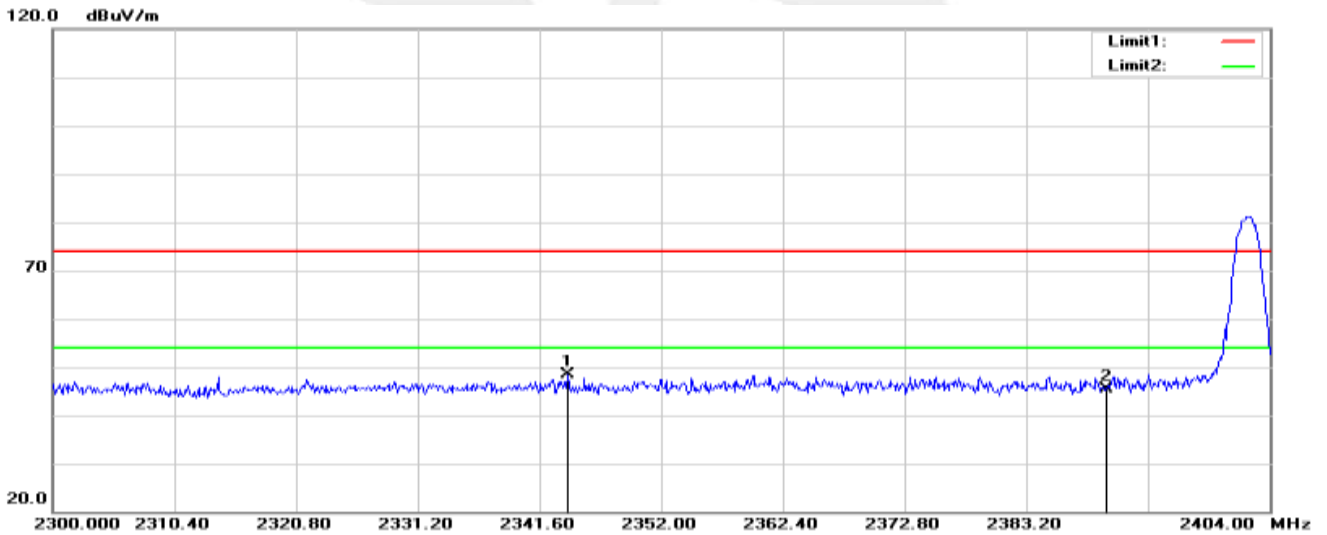


2M PHY
GFSK-Low
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2343.992	58.91	-11.05	47.86	74.00	-26.14	peak
2	2390.000	55.68	-10.75	44.93	74.00	-29.07	peak

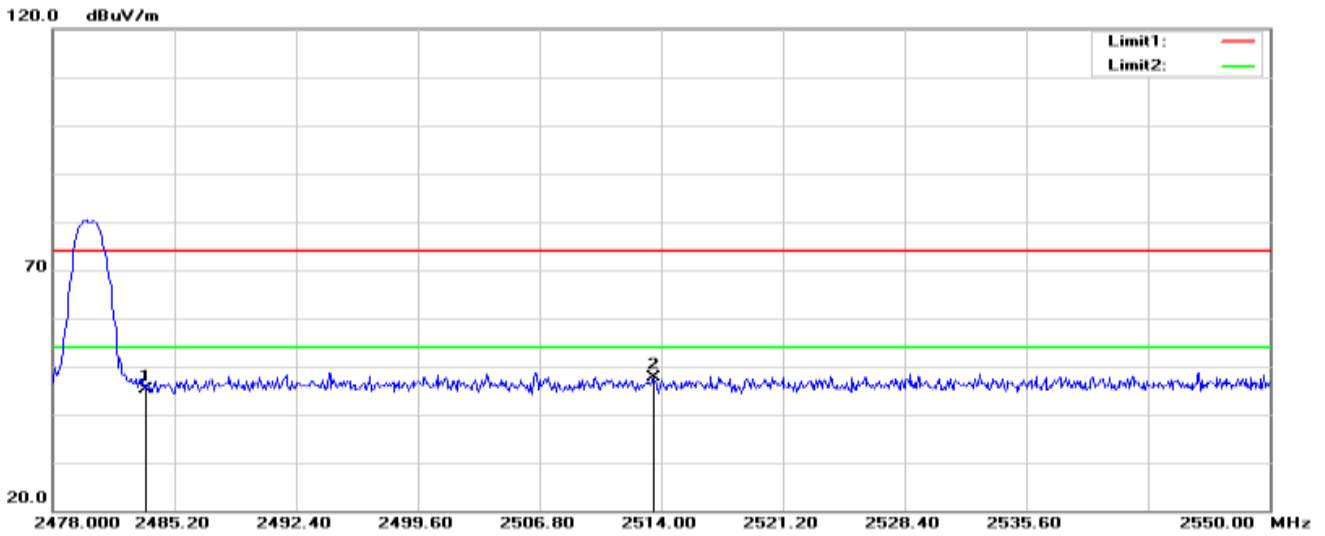
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2343.992	59.41	-11.05	48.36	74.00	-25.64	peak
2	2390.000	56.18	-10.75	45.43	74.00	-28.57	peak

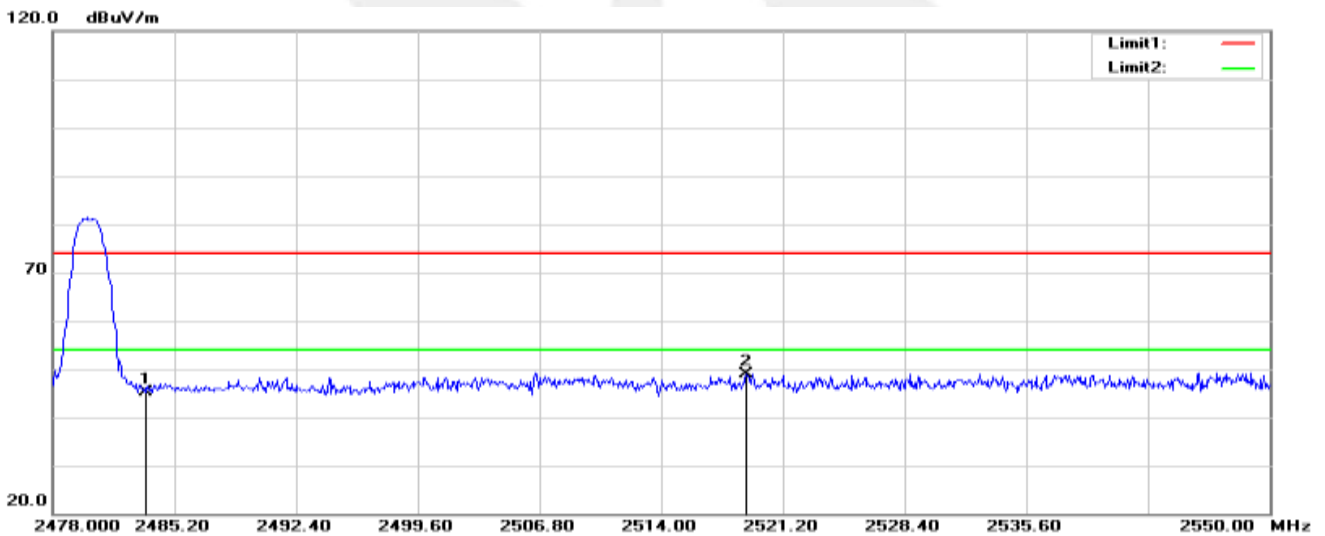


GFSK-High
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	55.51	-10.29	45.22	74.00	-28.78	peak
2	2513.568	57.69	-10.17	47.52	74.00	-26.48	peak

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	55.51	-10.29	45.22	74.00	-28.78	peak
2	2519.040	59.00	-10.16	48.84	74.00	-25.16	peak

5. CONDUCTED SPURIOUS & BAND EDGE EMISSION

5.1 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.

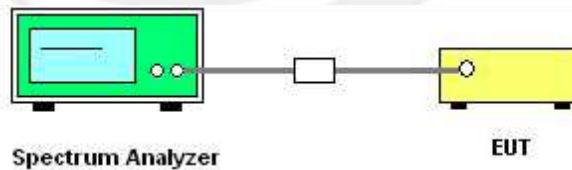
5.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2300 – 2403 MHz Upper Band Edge: 2479 – 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

5.3 TEST SETUP



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.

5.4 EUT OPERATION CONDITIONS

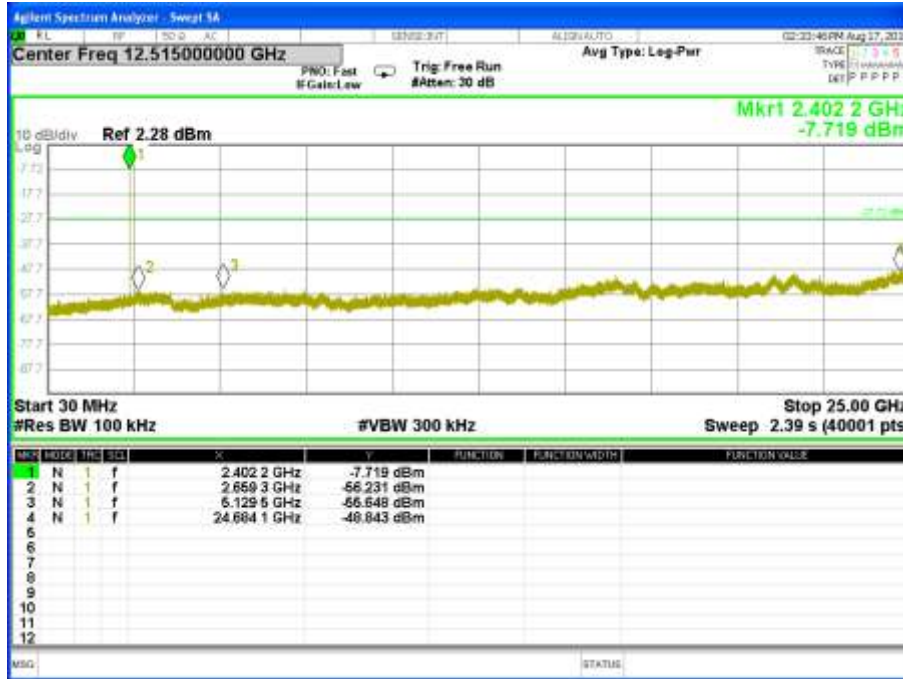
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



5.5 TEST RESULTS

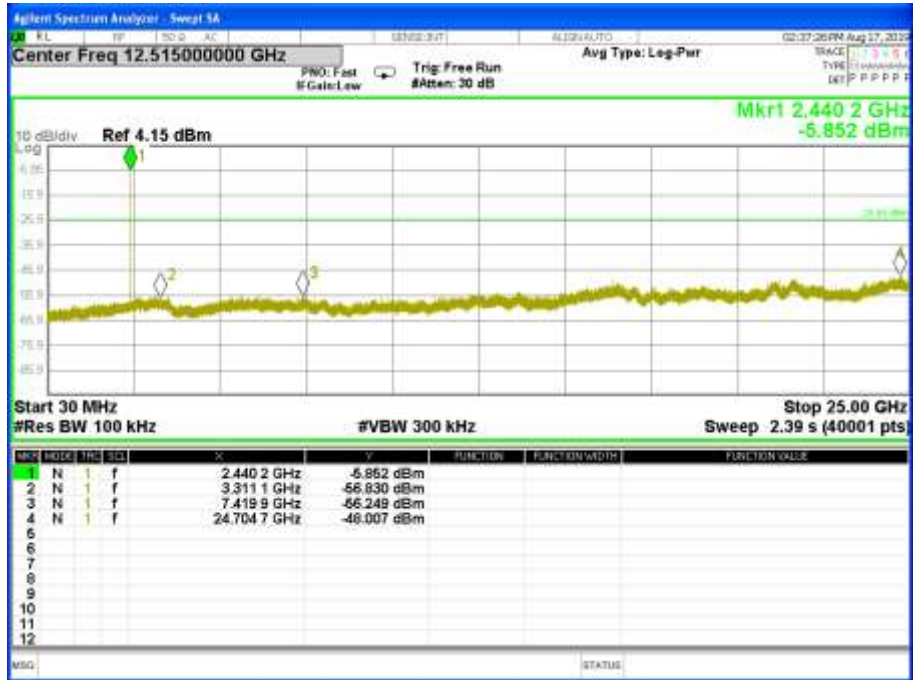
Temperature:	25°C	Relative Humidity:	50%
Test Voltage:	DC 3.85V	Test Mode:	TX Mode /CH00, CH19, CH39

1M PHY
00 CH





19 CH



39 CH





For Band edge

00 CH

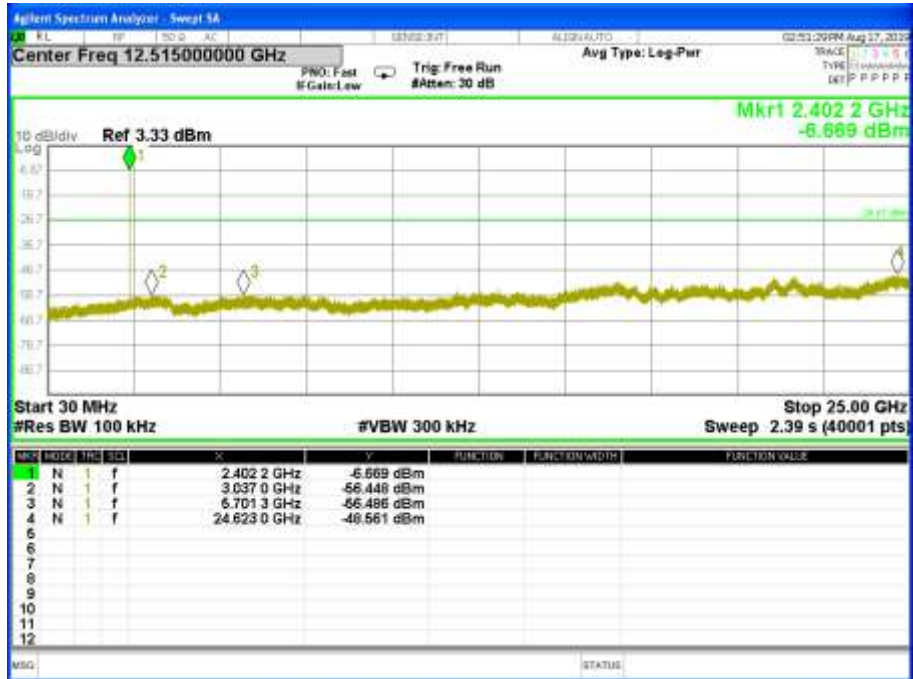


39CH



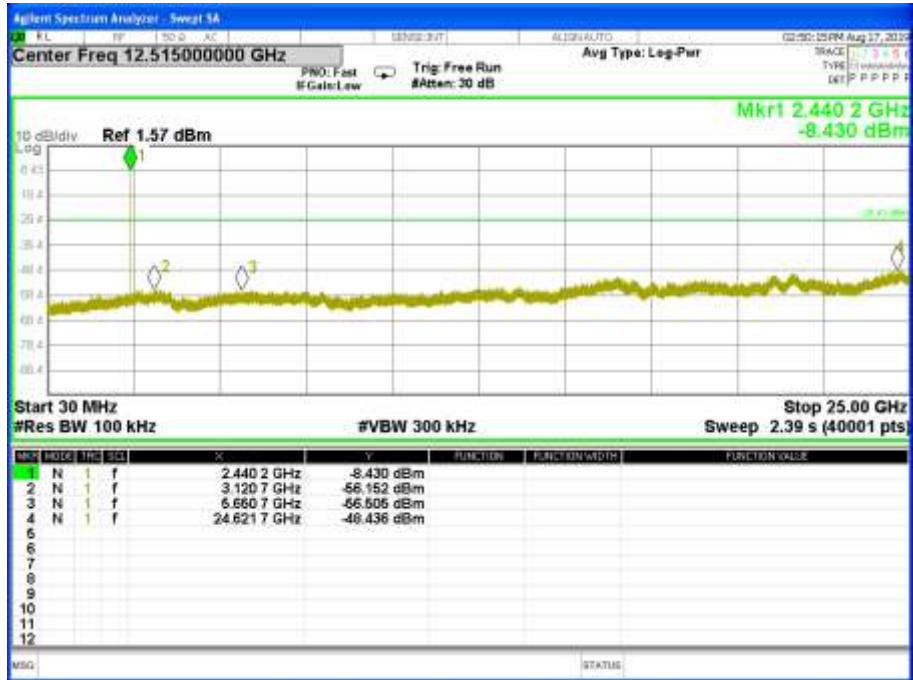


2M PHY
00 CH





19 CH



39 CH





For Band edge

00 CH



39CH





6. POWER SPECTRAL DENSITY TEST

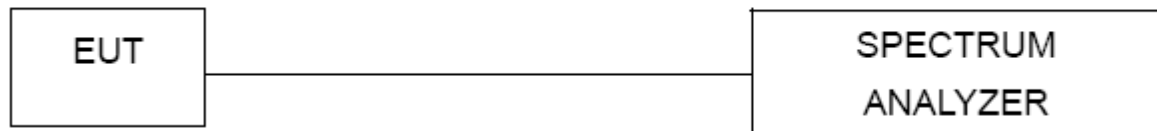
6.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247, Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	≤ 8 dBm (RBW ≥ 3 KHz)	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 channel bandwidth.
3. Set the RBW to: $100 \text{ kHz} \geq \text{RBW} \geq 3 \text{ kHz}$.
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.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3 TEST SETUP



6.4 EUT OPERATION 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.



6.5 TEST RESULTS

Temperature:	25 °C	Relative Humidity:	60%
Test Voltage:	DC 3.85V	Test Mode:	TX Mode /CH00, CH19, CH39

1M PHY

Frequency	Power Density (dBm/3kHz)	Limit (dBm/3KHz)	Result
2402 MHz	-19.819	≤8	PASS
2440 MHz	-19.862	≤8	PASS
2480 MHz	-20.223	≤8	PASS

TX CH00





TX CH19



TX CH39





2M PHY

Frequency	Power Density (dBm/3kHz)	Limit (dBm/3KHz)	Result
2402 MHz	-23.286	≤8	PASS
2440 MHz	-23.351	≤8	PASS
2480 MHz	-23.751	≤8	PASS

TX CH00





TX CH19



TX CH39





7. BANDWIDTH TEST

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15.247, 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

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW ≥ 3 RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

7.3 TEST SETUP



7.4 EUT OPERATION 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.



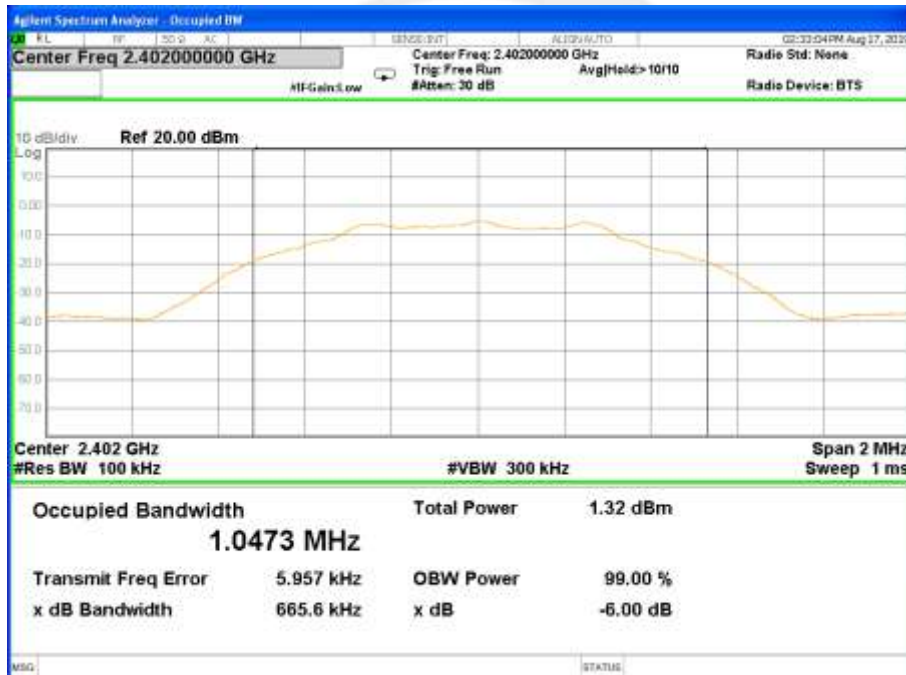
7.5 TEST RESULTS

Temperature:	25 °C	Relative Humidity:	60%
Test Voltage:	DC 3.85V	Test Mode:	TX Mode /CH00, CH19, CH39

1M PHY

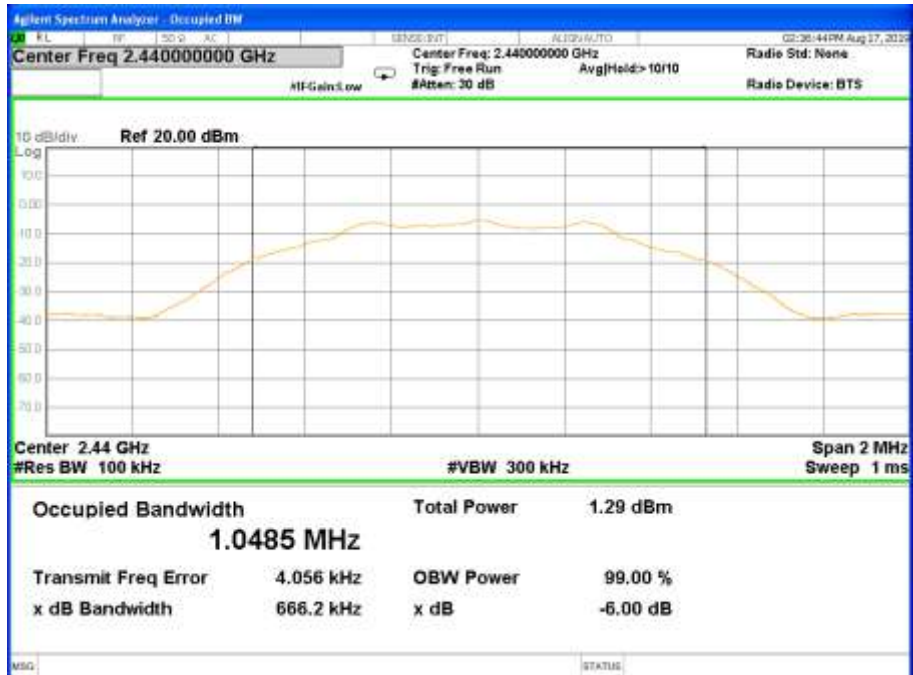
Frequency	6dB Bandwidth (MHz)	Channel Separation	Result
2402 MHz	0.666	>=500KHz	PASS
2440 MHz	0.666	>=500KHz	PASS
2480 MHz	0.665	>=500KHz	PASS

TX CH 00

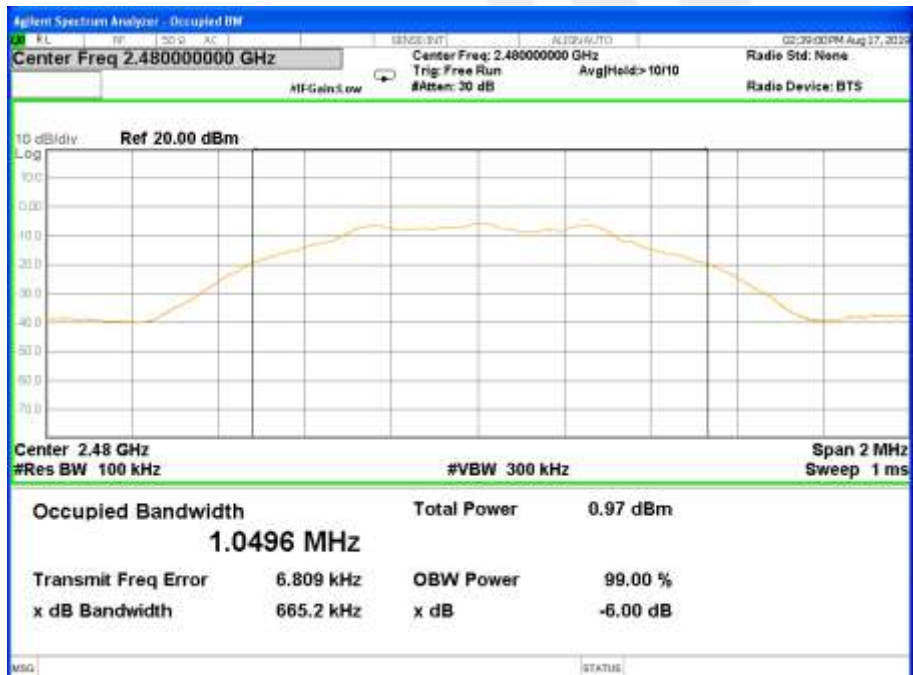




TX CH 19



TX CH 39

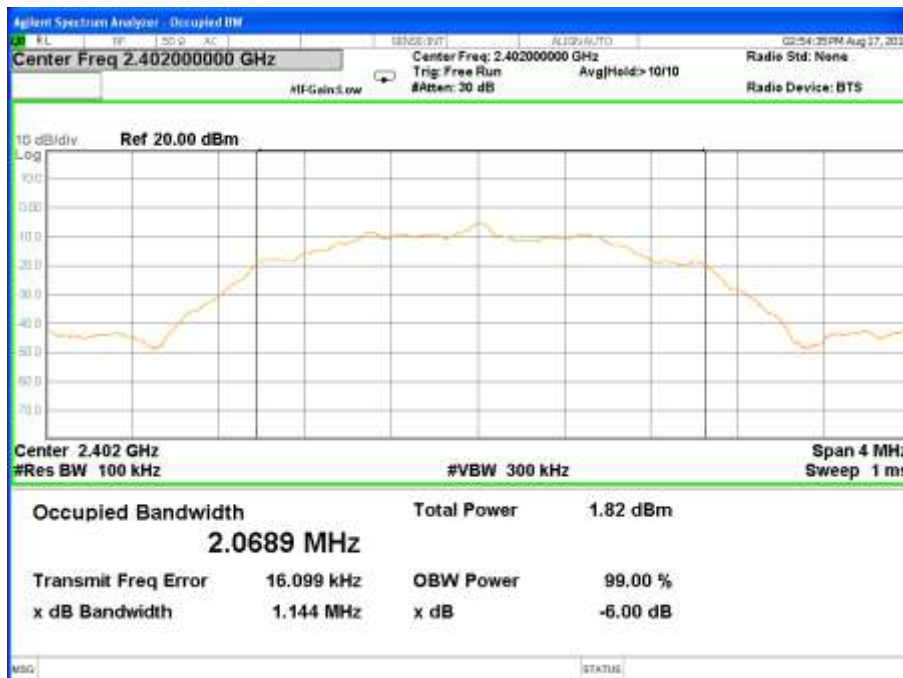




2M PHY

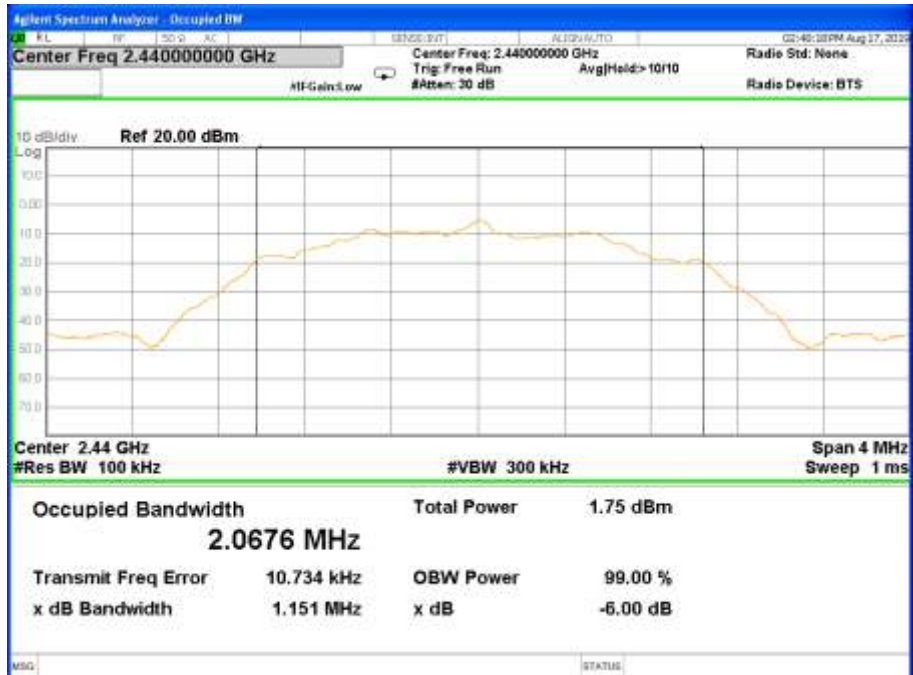
Frequency	6dB Bandwidth (MHz)	Channel Separation	Result
2402 MHz	1.144	>=500KHz	PASS
2440 MHz	1.151	>=500KHz	PASS
2480 MHz	1.148	>=500KHz	PASS

TX CH 00

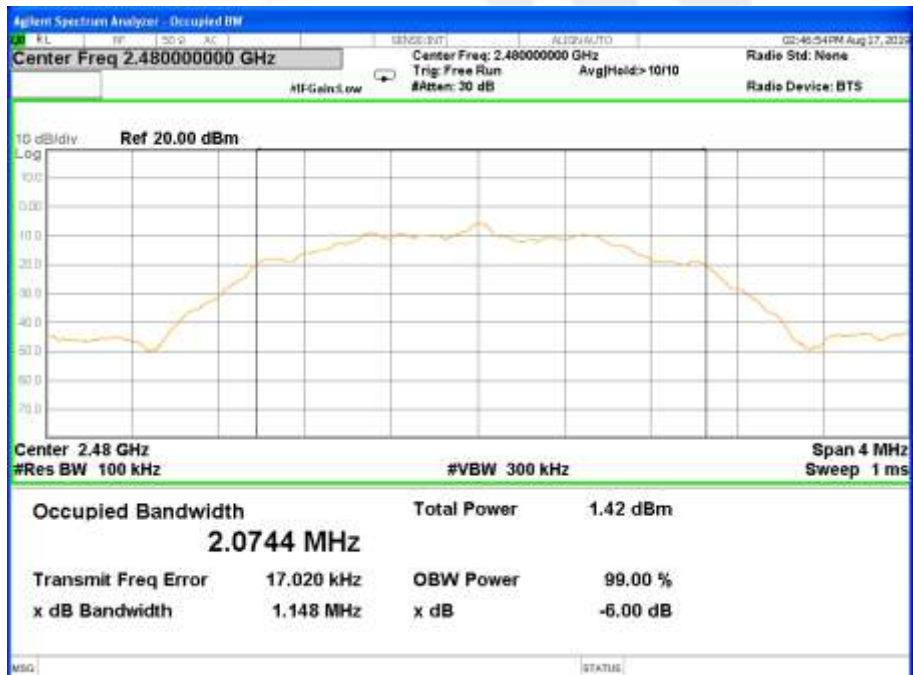




TX CH 19



TX CH 39





8. PEAK OUTPUT POWER TEST

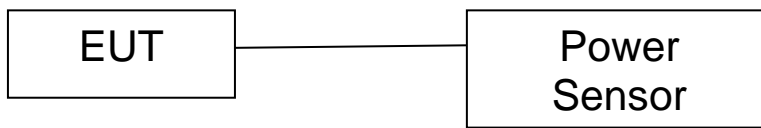
8.1 APPLIED PROCEDURES / LIMIT

FCC Part15.247,Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS

8.2 TEST PROCEDURE

- a. The EUT was directly connected to the Power Sensor&PC

8.3 TEST SETUP



8.4 EUT OPERATION 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.



8.5 TEST RESULTS

Temperature:	25 °C	Relative Humidity:	60%
Test Voltage:	DC 3.85V	Test Mode:	TX Mode /CH00, CH19, CH39

1M PHY

TX Mode				
Test Channel	Frequency	Conducted Output Power		LIMIT
	(MHz)	Peak(dBm)	AVG (dBm)	dBm
CH00	2402	-4.11	-6.31	30
CH19	2440	-3.89	-6.14	30
CH39	2480	-4.89	-7.12	30

2M PHY

TX Mode				
Test Channel	Frequency	Conducted Output Power		LIMIT
	(MHz)	Peak (dBm)	AVG (dBm)	dBm
CH00	2402	-3.95	-9.08	30
CH19	2440	-3.74	-8.94	30
CH39	2480	-4.71	-9.93	30



9. ANTENNA REQUIREMENT

9.1 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.

9.2 EUT ANTENNA

The EUT antenna is PIFA Antenna. It comply with the standard requirement.





10. EUT TEST PHOTO

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※END OF THE REPORT※※※※

