

Test Report

FCC ID: 2ANB8-T1

Date of issue: Oct. 22, 2018

Report Number:	MTi181018E051
Sample Description:	GETWELL Aerobic capacity assessment and muscle oxygen monitoring
Model(s):	T1
Applicant:	Getwell Health Technology (Wuhu) Co., Ltd.
Address:	4th Building, Service outsourcing park, new and high-tech zone, Yijiang District, Wuhu, Anhui
Date of Test:	Oct. 11, 2018 - Oct. 22, 2018

Shenzhen Microtest Co., Ltd.
<http://www.mtitest.com>

This test report is valid for the tested samples only. It cannot be reproduced except in full without prior written consent of Shenzhen Microtest Co., Ltd.

Table of Contents

1	GENERAL INFORMATION	4
1.1	DESCRIPTION OF EUT	4
1.2	OPERATION CHANNEL LIST	4
1.3	TEST CHANNEL LIST	5
1.4	ANCILLARY EQUIPMENT LIST	5
1.5	DESCRIPTION OF SUPPORT UNITS	5
2	SUMMARY OF TEST RESULTS	6
3	TEST FACILITIES AND ACCREDITATIONS	7
3.1	TEST LABORATORY	7
3.2	ENVIRONMENTAL CONDITIONS	7
3.3	MEASUREMENT UNCERTAINTY	7
3.4	TEST SOFTWARE	7
4	EQUIPMENT LIST	8
5	TEST RESULT	9
5.1	ANTENNA REQUIREMENT	9
5.1.1	<i>Standard requirement</i>	9
5.1.2	<i>EUT Antenna</i>	9
5.2	CONDUCTED EMISSION	10
5.2.1	<i>Limits</i>	10
5.2.2	<i>Test setup</i>	10
5.2.3	<i>Test procedure</i>	11
5.2.4	<i>Test results</i>	11
5.3	RADIATED SPURIOUS EMISSION	16
5.3.1	<i>Limits</i>	16
5.3.2	<i>Test setup</i>	17
5.3.3	<i>Test procedure</i>	18
5.3.4	<i>Test results</i>	19
5.3.4.1	<i>Radiation emission</i>	19
5.3.4.2	<i>Band edge – radiated</i>	23
5.3.4.3	<i>Spurious Emission in Restricted Band 3260MMHz-18000MHz</i>	24
	PHOTOGRAPHS OF THE TEST SETUP	25
	PHOTOGRAPHS OF THE EUT	27

TEST REPORT

Applicant's name: Getwell Health Technology (Wuhu) Co., Ltd.

Address: 4th Building, Service outsourcing park, new and high-tech zone, Yijiang District, Wuhu, Anhui

Manufacture's Name: Getwell Health Technology (Wuhu) Co., Ltd.

Address: 4th Building, Service outsourcing park, new and high-tech zone, Yijiang District, Wuhu, Anhui

Product name: GETWELL Aerobic capacity assessment and muscle oxygen monitoring

Trademark: getwell

Model name: T1

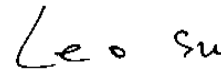
Standards: FCC Part 15.247

Test Procedure: ANSI C63.10-2013
KDB 174176 D01 Line Conducted FAQ v01r01

This device described above has been tested by Shenzhen Microtest Co., Ltd. and 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.

Note: The RF component test data for this report is based on the original test report MTi170811E069 with a date of 2017-08-11. This report only reflects the retesting part, the conduction and radiation data are updated, and the rest of the data remains unchanged.

Tested by:



Leo Su

Oct. 22, 2018

Reviewed by:



Blue Zheng

Oct. 22, 2018

Approved by:



Smith Chen

Oct. 22, 2018

1 General Information

1.1 Description of EUT

Product name:	GETWELL Aerobic capacity assessment and muscle oxygen monitoring
Model name:	T1
Serial model:	N/A
Difference in series models:	N/A
Operation frequency:	2402-2480MHz
Modulation type:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Bit Rate of transmitter:	1 Mbps, 2 Mbps, 3 Mbps
Antenna type:	FPCB Antenna
Antenna gain:	2dBi
Max. output power:	1.95dBm
Hardware version:	V01
Software version:	V218
Power supply:	DC 3.7V by Battery or DC 5V from adapter AC 120V/60Hz
Adapter information:	Model: SK12G-0500100U Input: AC100-240V~ 50/60Hz 0.2A Output: 5V 1A
Battery:	DC 3.7V 205mA

1.2 Operation channel list

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462

07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454	--	--
26	2428	53	2455	--	--

1.3 Test channel list

Channel	Channel	Frequency (MHz)
Low	00	2402
Middle	39	2441
High	78	2480

1.4 Ancillary equipment list

Equipment	Model	S/N	Manufacturer	Certificate type
Adapter	SK12G-0500100U	/	/	/

1.5 Description of 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.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
/	/	/	/	/	/

Note:

(1)The support equipment was authorized by Declaration of Confirmation.

(2)For detachable type I/O cable should be specified the length in cm in 『Length』 column.

2 Summary of Test Results

Test procedures according to the technical standards:

No.	Standard Section	Test Item	Result	Remark
1	15.203	Antenna requirement	Pass	
2	15.207	Conducted emission	Pass	
3	15.205/15.209	Spurious emission	Pass	

3 Test Facilities and Accreditations

3.1 Test laboratory

Test Laboratory	Shenzhen Microtest Co., Ltd.
Location	No.102A & 302A, East Block, Hengfang Industrial Park, Xingye Road, Xixiang, Bao'an District, Shenzhen, Guangdong, China
FCC Registration No.:	448573

3.2 Environmental conditions

Temperature:	20°C~30°C
Humidity	30%~70%
Atmospheric pressure	98kPa~101kPa

3.3 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	Conducted Emission Test	$\pm 1.38\text{dB}$
2	RF power, conducted	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	All emissions, radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^\circ\text{C}$
7	Humidity	$\pm 2\%$

3.4 Test software

Software Name	Manufacturer	Model	Version
RF Test System	Farad	LZ-RF	Lz_Rf 3A3

4 Equipment List

Equipment No.	Equipment Name	Manufacturer	Model	Serial No.	Calibration date	Due date
MTI-E001	Spectrum Analyzer	Agilent	E4407B	MY41441082	2017/11/18	2018/11/17
MTI-E002	CMU 200 universal radio communication tester	Rohde&schwarz	CMU 200	114587	2017/11/18	2018/11/17
MTI-E004	EMI Test Receiver	Rohde&schwarz	ESPI	1000314	2017/11/18	2018/11/17
MTI-E006	Broadband antenna	schwarabeck	VULB9163	872	2017/11/18	2018/11/17
MTI-E007	Horn antenna	schwarabeck	BBHA9120D	1201	2017/11/18	2018/11/17
MTI-E014	amplifier	America	8447D	3113A06150	2017/11/18	2018/11/17
MTI-E015	Conduction Immunity Signal Generator	Schloder	CDG6000	126A1343/2015	2017/11/18	2018/11/17
MTI-E016	Coupled decoupling network	Schloder	CDA M2/M3	A2210332/2015	2017/11/18	2018/11/17
MTI-E032	Comprehensive test instrument	Rohde&schwarz	CMW500	124192	2017/11/18	2018/11/17
MTI-E034	amplifier	Agilent	8449B	3008A02400	2017/11/22	2018/11/21
MTI-E037	Artificial power network	Schwarzbeck	NSLK8127	#841	2017/12/26	2018/12/25
MTI-E040	Spectrum analyzer	Agilent	N9020A	MY49100060	2017/11/05	2018/11/04
MTI-E041	Signal generator	Agilent	N5182A	MY49060455	2017/11/23	2018/11/22
MTI-E042	Analog signal generator	Agilent	E4421B	GB40051240	2017/11/23	2018/11/22
MTI-E043	Power probe	Dare Instruments	RPR3006W	16100054SN016	2017/12/29	2018/12/28
MTI-E047	10dB attenuator	Mini-Circuits	UNAT-10+	15542	2017/11/24	2018/11/23
MTI-E049	spectrum analyzer	Rohde&schwarz	FSP-38	100019	2017/11/18	2018/11/17
MTI-E050	PSG Signal generator	Agilent	E8257D	MY46520873	2017/11/24	2018/11/23
MTI-E051	Active Loop Antenna 9kHz - 30MHz	Schwarzbeck	FMZB 1519 B	00044	2017/11/26	2018/11/25
MTI-E052	18-40GHz amplifier	Chengdu step Micro Technology	ZLNA-18-40G-21	1608001	2017/11/18	2018/11/17
MTI-E053	15-40G Antenna	Schwarzbeck	BBHA9170	BBHA9170582	2017/11/18	2018/11/17
MTI-E058	Artificial power network	Schwarzbeck	NSLK8127	#841	2017/11/05	2018/11/04

Note: the calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

5 Test Result

5.1 Antenna requirement

5.1.1 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

5.1.2 EUT Antenna

The EUT antenna is FPCB antenna (2dBi). It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used.

5.2 Conducted emission

5.2.1 Limits

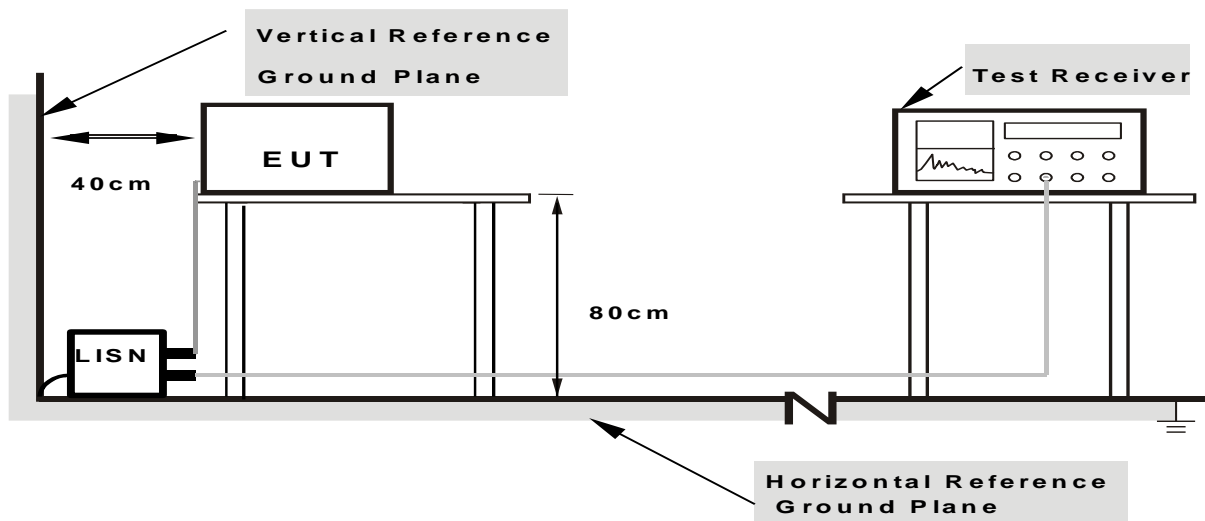
FREQUENCY (MHz)	Class B (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

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.

5.2.2 Test setup



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

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

5.2.3 Test procedure

a. 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.

b. 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

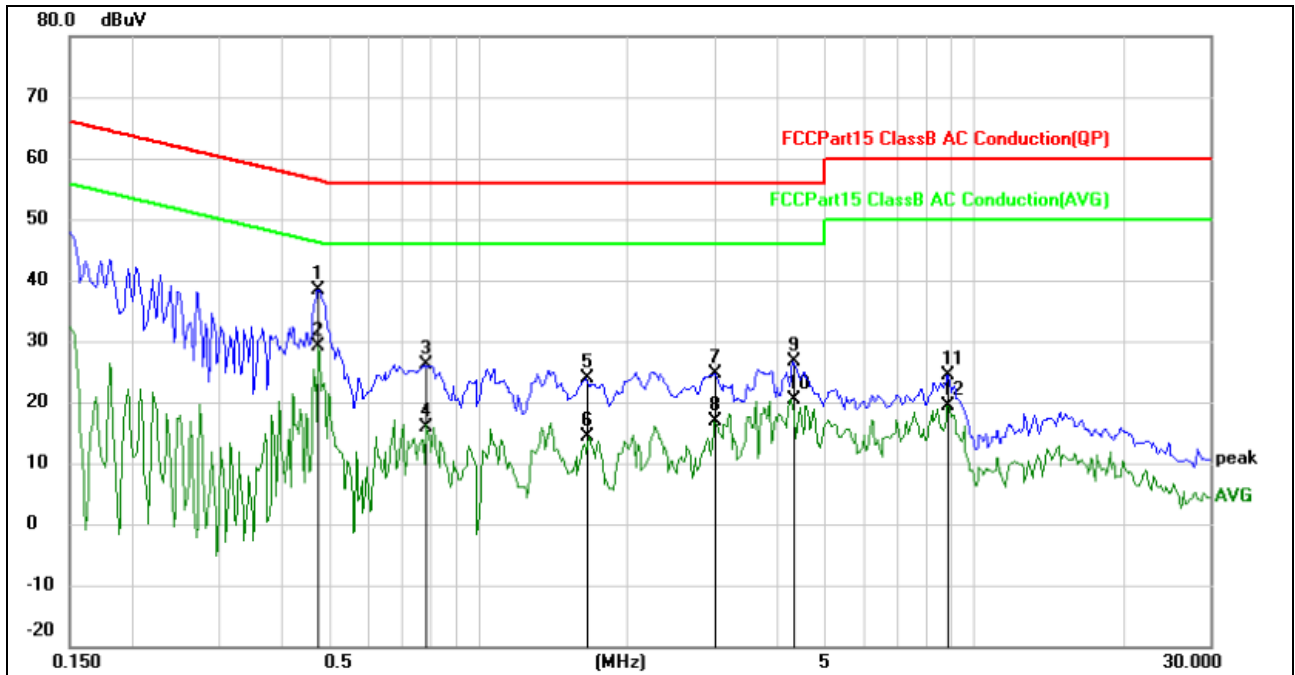
- c. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- d. 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.
- e. 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.
- f. LISN at least 80 cm from nearest part of EUT chassis.

For the actual test configuration, please refer to the related Item –EUT Test Photos.

5.2.4 Test results

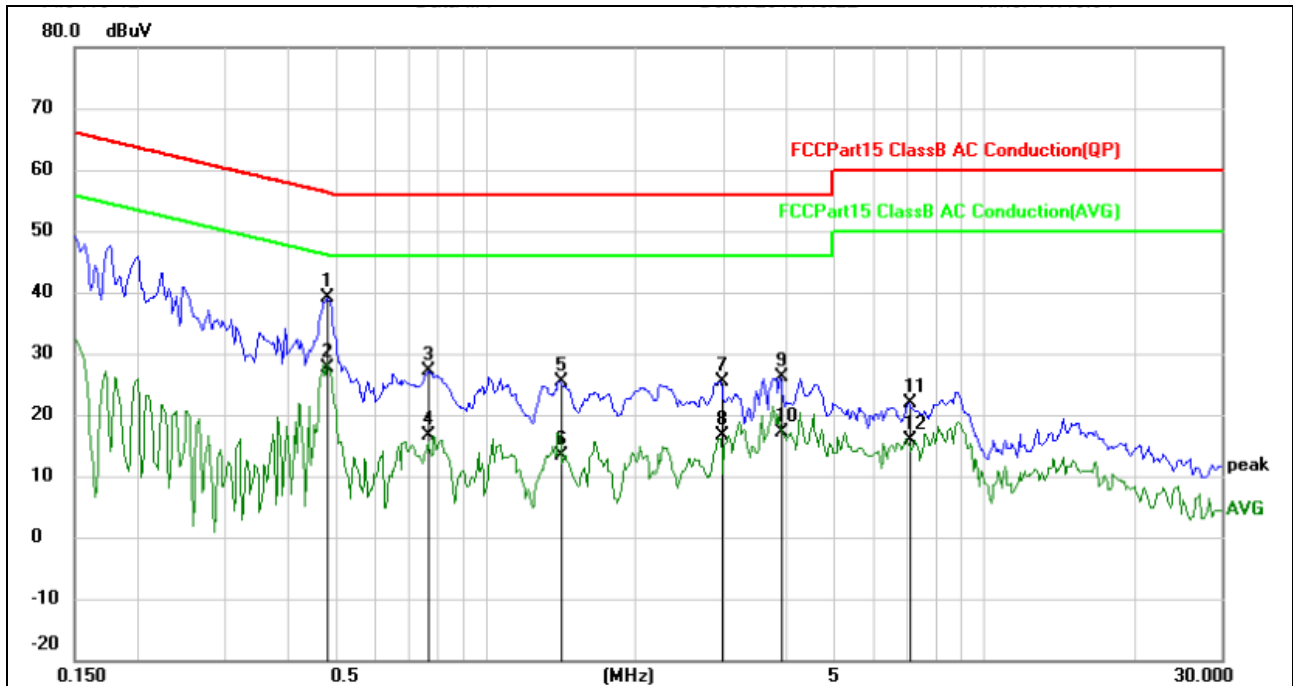
Test data

EUT :	GETWELL Aerobic capacity assessment and muscle oxygen monitoring	Model Name :	T1
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from adapter AC 120V/60Hz	Test Mode :	Normal link



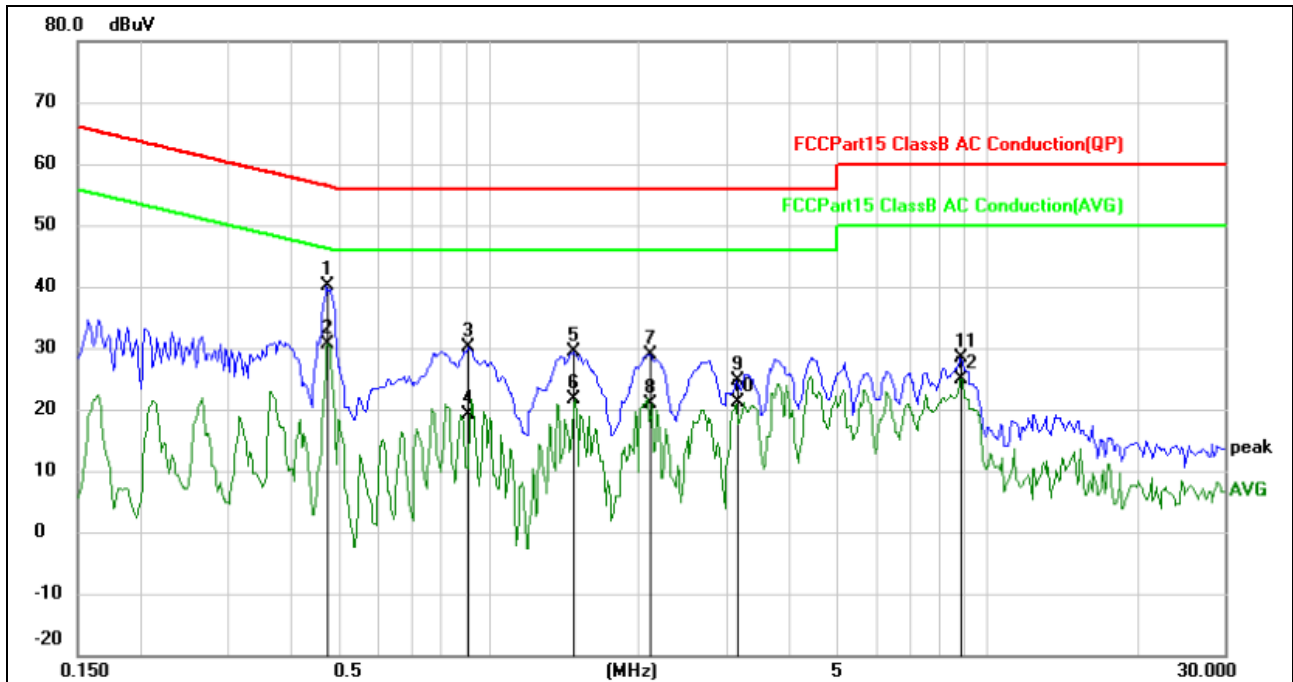
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.4742	36.88	1.57	38.45	56.44	-17.99	QP	
2	*	0.4742	27.48	1.57	29.05	46.44	-17.39	AVG	
3		0.7828	24.56	1.57	26.13	56.00	-29.87	QP	
4		0.7828	14.43	1.57	16.00	46.00	-30.00	AVG	
5		1.6539	22.28	1.58	23.86	56.00	-32.14	QP	
6		1.6539	12.88	1.58	14.46	46.00	-31.54	AVG	
7		3.0078	23.61	1.02	24.63	56.00	-31.37	QP	
8		3.0078	15.76	1.02	16.78	46.00	-29.22	AVG	
9		4.3203	25.99	0.71	26.70	56.00	-29.30	QP	
10		4.3203	19.79	0.71	20.50	46.00	-25.50	AVG	
11		8.8672	24.07	0.39	24.46	60.00	-35.54	QP	
12		8.8672	18.87	0.39	19.26	50.00	-30.74	AVG	

EUT :	GETWELL Aerobic capacity assessment and muscle oxygen monitoring	Model Name. :	T1
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from adapter AC 120V/60Hz	Test Mode :	Normal link



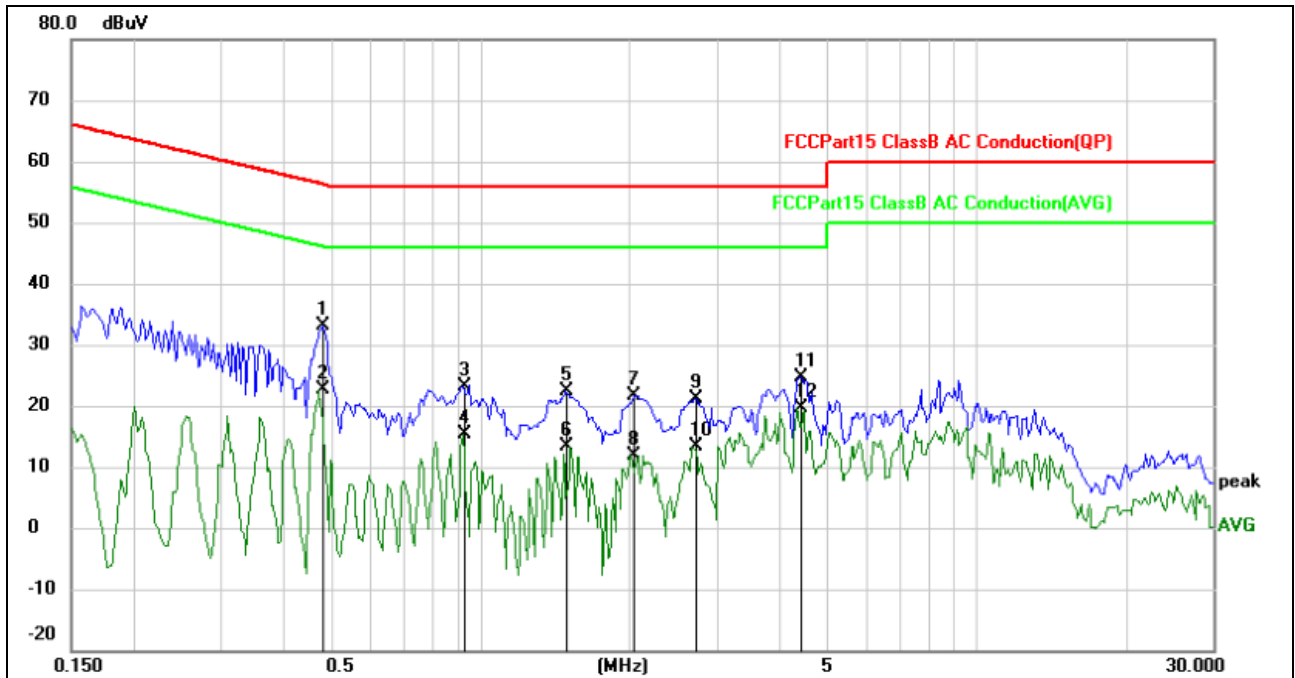
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.4820	37.44	1.57	39.01	56.30	-17.29	QP	
2		0.4820	26.10	1.57	27.67	46.30	-18.63	AVG	
3		0.7672	25.50	1.57	27.07	56.00	-28.93	QP	
4		0.7672	15.00	1.57	16.57	46.00	-29.43	AVG	
5		1.4117	23.89	1.58	25.47	56.00	-30.53	QP	
6		1.4117	11.85	1.58	13.43	46.00	-32.57	AVG	
7		2.9625	24.41	1.04	25.45	56.00	-30.55	QP	
8		2.9625	15.65	1.04	16.69	46.00	-29.31	AVG	
9		3.9023	25.29	0.90	26.19	56.00	-29.81	QP	
10		3.9023	16.33	0.90	17.23	46.00	-28.77	AVG	
11		7.0664	21.50	0.39	21.89	60.00	-38.11	QP	
12		7.0664	15.52	0.39	15.91	50.00	-34.09	AVG	

EUT :	GETWELL Aerobic capacity assessment and muscle oxygen monitoring	Model Name. :	T1
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from adapter AC 240V/60Hz	Test Mode :	Normal link



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.4742	38.62	1.57	40.19	56.44	-16.25	QP	
2	*	0.4742	29.11	1.57	30.68	46.44	-15.76	AVG	
3		0.9117	28.49	1.57	30.06	56.00	-25.94	QP	
4		0.9117	17.68	1.57	19.25	46.00	-26.75	AVG	
5		1.4819	27.76	1.58	29.34	56.00	-26.66	QP	
6		1.4819	19.96	1.58	21.54	46.00	-24.46	AVG	
7		2.1101	27.32	1.51	28.83	56.00	-27.17	QP	
8		2.1101	19.28	1.51	20.79	46.00	-25.21	AVG	
9		3.1523	23.60	1.00	24.60	56.00	-31.40	QP	
10		3.1523	20.04	1.00	21.04	46.00	-24.96	AVG	
11		8.8397	27.93	0.39	28.32	60.00	-31.68	QP	
12		8.8397	24.57	0.39	24.96	50.00	-25.04	AVG	

EUT :	GETWELL Aerobic capacity assessment and muscle oxygen monitoring	Model Name. :	T1
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from adapter AC 240V/60Hz	Test Mode :	Normal link



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.4820	31.66	1.57	33.23	56.30	-23.07	QP	
2		0.4820	21.12	1.57	22.69	46.30	-23.61	AVG	
3		0.9234	21.53	1.57	23.10	56.00	-32.90	QP	
4		0.9234	13.74	1.57	15.31	46.00	-30.69	AVG	
5		1.4898	20.82	1.58	22.40	56.00	-33.60	QP	
6		1.4898	11.81	1.58	13.39	46.00	-32.61	AVG	
7		2.0367	20.16	1.56	21.72	56.00	-34.28	QP	
8		2.0367	10.35	1.56	11.91	46.00	-34.09	AVG	
9		2.7203	19.92	1.14	21.06	56.00	-34.94	QP	
10		2.7203	12.13	1.14	13.27	46.00	-32.73	AVG	
11		4.4258	23.99	0.65	24.64	56.00	-31.36	QP	
12		4.4258	19.07	0.65	19.72	46.00	-26.28	AVG	

5.3 Radiated spurious emission

5.3.1 Limits

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

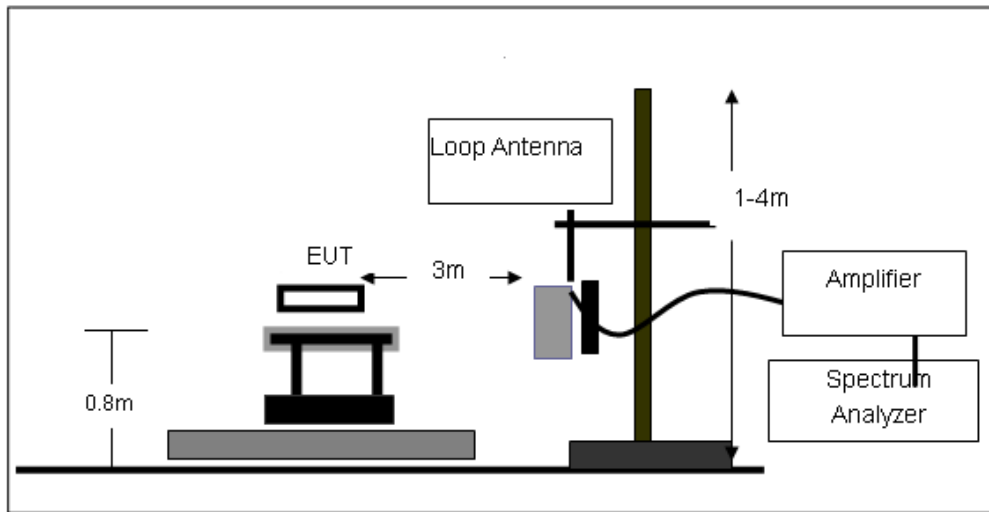
Frequency (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

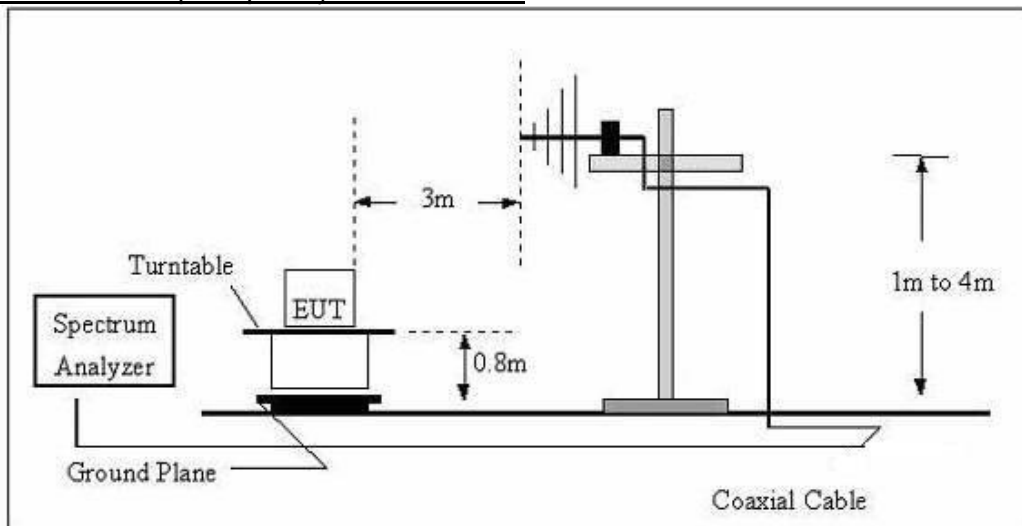
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

5.3.2 Test setup

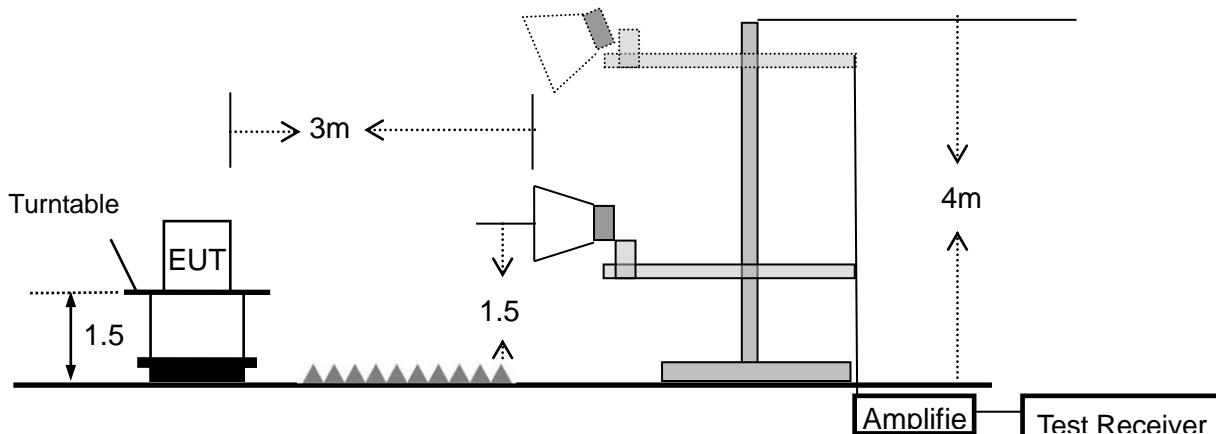
Radiated emission test-up frequency below 30MHz



Radiated emission test-up frequency 30MHz~1GHz



Radiated emission test-up frequency above 1GHz



5.3.3 Test procedure

- a. EUT operating conditions. The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.
- b. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- c. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. 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.
- f. 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.
- g. 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.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW [kHz]})$. , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

5.3.4 Test results

5.3.4.1 Radiation emission

Below 30MHz

EUT:	GETWELL Aerobic capacity assessment and muscle oxygen monitoring	Model Name:	T1
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V by battery
Test Mode:	TX	Polarization :	--

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);

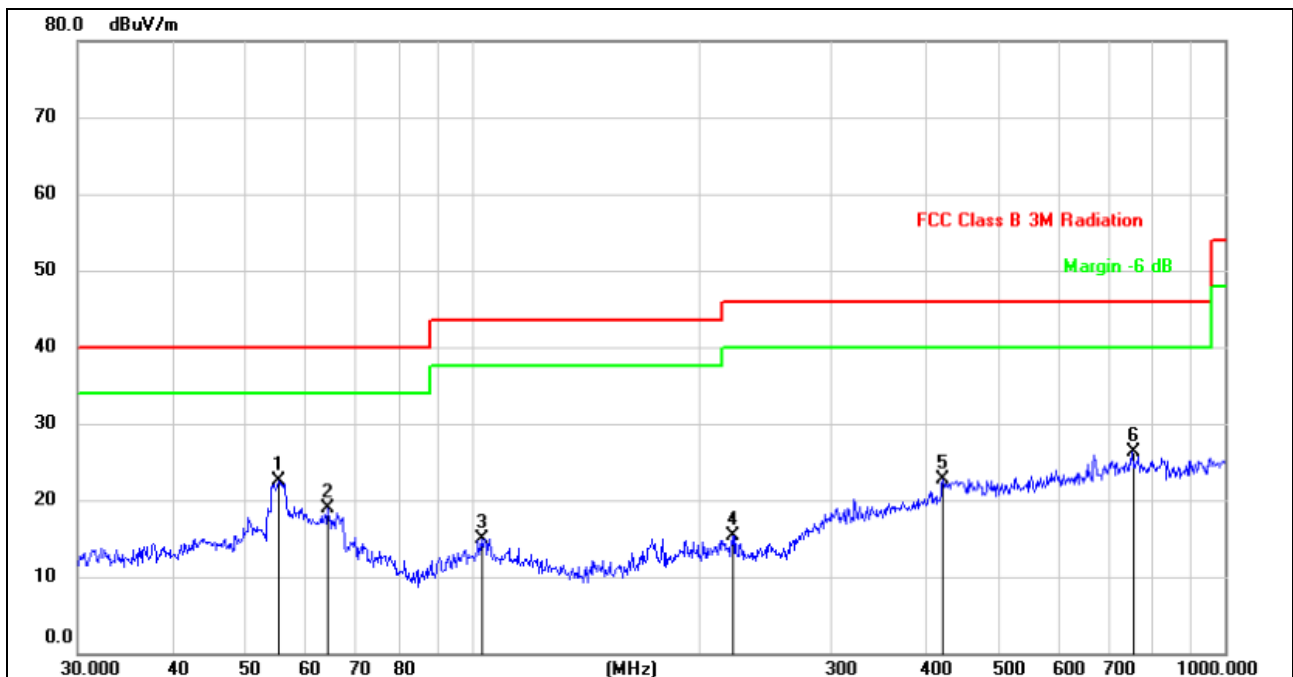
Limit line = specific limits(dBuV) + distance extrapolation factor.

Between 30MHz – 1GHz

Note1 : Emission Level = Meter Reading + Factor, Margin= Emission Level- Limit, Factor = Antenna Factor + Cable Loss – Pre-amplifier.

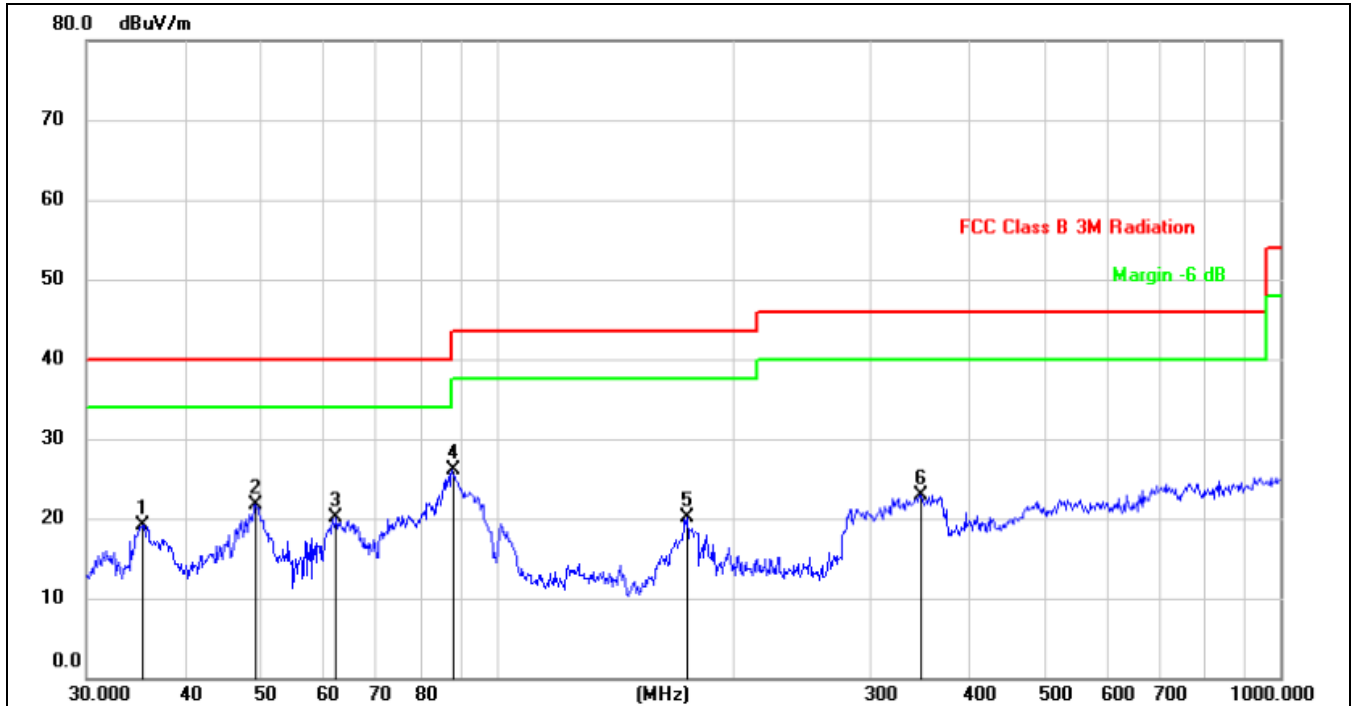
Note2 :The peak value is less than the AV value, AV value is not required Factor added by measurement software automatically.

EUT :	GETWELL Aerobic capacity assessment and muscle oxygen monitoring	Model Name :	T1
Relative Humidity:	52%	Phase:	H
Pressure:	1010 hPa	Test Voltage :	DC 5V from adapter AC 120V/60Hz
Test Mode :	Normal link		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dBuV/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	55.4147	32.92	-10.48	22.44	40.00	-17.56	QP
2		64.4330	31.24	-12.29	18.95	40.00	-21.05	QP
3		103.0800	26.33	-11.44	14.89	43.50	-28.61	QP
4		222.1698	26.33	-10.97	15.36	46.00	-30.64	QP
5		422.0577	28.85	-6.23	22.62	46.00	-23.38	QP
6		752.7432	29.78	-3.47	26.31	46.00	-19.69	QP

EUT :	GETWELL Aerobic capacity assessment and muscle oxygen monitoring	Model Name :	T1
Relative Humidity:	52%	Phase:	V
Pressure:	1010 hPa	Test Voltage :	DC 5V from adapter AC 120V/60Hz
Test Mode :	Normal link		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dBuV/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		35.3750	30.37	-11.25	19.12	40.00	-20.88	QP
2		49.3594	31.34	-9.66	21.68	40.00	-18.32	QP
3		62.4313	31.84	-11.79	20.05	40.00	-19.95	QP
4	*	87.7248	39.71	-13.65	26.06	40.00	-13.94	QP
5		175.0365	32.25	-12.10	20.15	43.50	-23.35	QP
6		348.0274	30.63	-7.63	23.00	46.00	-23.00	QP

1G-25GHz

- Note: (1) All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).
 (2) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor
 (3) All other emissions more than 20dB below the limit.

All the modulation modes have been tested, and the worst result was report as below:

Frequency (MHz)	Read Level (dBμV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark	Comment
Low Channel (2402 MHz)(8DPSK)--Above 1G									
4804.03	63.56	5.21	35.59	44.30	60.06	74.00	-13.94	Pk	Vertical
4804.03	41.30	5.21	35.59	44.30	37.80	54.00	-16.20	AV	Vertical
7206.27	60.13	6.48	36.27	44.60	58.28	74.00	-15.72	Pk	Vertical
7206.27	43.76	6.48	36.27	44.60	41.91	54.00	-12.09	AV	Vertical
4804.11	60.60	5.21	35.55	44.30	57.06	74.00	-16.94	Pk	Horizontal
4804.11	43.49	5.21	35.55	44.30	39.95	54.00	-14.05	AV	Horizontal
7206.22	63.63	6.48	36.27	44.52	61.86	74.00	-12.14	Pk	Horizontal
7206.22	46.82	6.48	36.27	44.52	45.05	54.00	-8.95	AV	Horizontal
Mid Channel (2441 MHz)(8DPSK)--Above 1G									
4882.4	62.75	5.21	35.66	44.20	59.42	74.00	-14.58	Pk	Vertical
4882.4	44.07	5.21	35.66	44.20	40.74	54.00	-13.26	AV	Vertical
7323.24	59.64	7.10	36.50	44.43	58.81	74.00	-15.19	Pk	Vertical
7323.24	46.96	7.10	36.50	44.43	46.13	54.00	-7.87	AV	Vertical
4882.11	61.00	5.21	35.66	44.20	57.67	74.00	-16.33	Pk	Horizontal
4882.11	49.06	5.21	35.66	44.20	45.73	54.00	-8.27	AV	Horizontal
7323.13	61.31	7.10	36.50	44.43	60.48	74.00	-13.52	Pk	Horizontal
7323.13	41.79	7.10	36.50	44.43	40.96	54.00	-13.04	AV	Horizontal
High Channel (2480 MHz)(8DPSK)-- Above 1G									
4960.4	66.61	5.21	35.52	44.21	63.13	74.00	-10.87	Pk	Vertical
4960.4	43.73	5.21	35.52	44.21	40.25	54.00	-13.75	AV	Vertical
7440.2	60.93	7.10	36.53	44.60	59.96	74.00	-14.04	Pk	Vertical
7440.2	44.57	7.10	36.53	44.60	43.60	54.00	-10.40	AV	Vertical
4960.23	67.88	5.21	35.52	44.21	64.40	74.00	-9.60	Pk	Horizontal
4960.23	47.29	5.21	35.52	44.21	43.81	54.00	-10.19	AV	Horizontal
7440.3	61.11	7.10	36.53	44.60	60.14	74.00	-13.86	Pk	Horizontal
7440.3	44.49	7.10	36.53	44.60	43.52	54.00	-10.48	AV	Horizontal

5.3.4.2 Band edge – radiated

All the modulation modes have been tested, and the worst result was report as below:

(MHz)	(dBμV)	(dB)	dB/m	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
3Mbps (8DPSK)-hopping									
2310.00	56.36	2.97	27.80	43.80	43.33	74	-30.67	Pk	Horizontal
2310.00	43.99	2.97	27.80	43.80	30.96	54	-23.04	AV	Horizontal
2310.00	59.37	2.97	27.80	43.80	46.34	74	-27.66	Pk	Vertical
2310.00	43.20	2.97	27.80	43.80	30.17	54	-23.83	AV	Vertical
2390.00	58.82	3.14	27.21	43.80	45.37	74	-28.63	Pk	Vertical
2390.00	43.50	3.14	27.21	43.80	30.05	54	-23.95	AV	Vertical
2390.00	57.65	3.14	27.21	43.80	44.20	74	-29.80	Pk	Horizontal
2390.00	43.07	3.14	27.21	43.80	29.62	54	-24.38	AV	Horizontal
2483.50	59.40	3.58	27.70	44.00	46.68	74	-27.32	Pk	Vertical
2483.50	44.14	3.58	27.70	44.00	31.42	54	-22.58	AV	Vertical
2483.50	59.47	3.58	27.70	44.00	46.75	74	-27.25	Pk	Horizontal
2483.50	43.25	3.58	27.70	44.00	30.53	54	-23.47	AV	Horizontal
3Mbps(8DPSK)- Non-hopping									
2310.00	56.36	2.97	27.80	43.80	43.33	74	-30.67	Pk	Horizontal
2310.00	43.71	2.97	27.80	43.80	30.68	54	-23.32	AV	Horizontal
2310.00	59.41	2.97	27.80	43.80	46.38	74	-27.62	Pk	Vertical
2310.00	42.36	2.97	27.80	43.80	29.33	54	-24.67	AV	Vertical
2390.00	58.26	3.14	27.21	43.80	44.81	74	-29.19	Pk	Vertical
2390.00	42.47	3.14	27.21	43.80	29.02	54	-24.98	AV	Vertical
2390.00	57.51	3.14	27.21	43.80	44.06	74	-29.94	Pk	Horizontal
2390.00	43.04	3.14	27.21	43.80	29.59	54	-24.41	AV	Horizontal
2483.50	57.59	3.58	27.70	44.00	44.87	74	-29.13	Pk	Vertical
2483.50	43.59	3.58	27.70	44.00	30.87	54	-23.13	AV	Vertical
2483.50	59.61	3.58	27.70	44.00	46.89	74	-27.11	Pk	Horizontal
2483.50	42.79	3.58	27.70	44.00	30.07	54	-23.93	AV	Horizontal

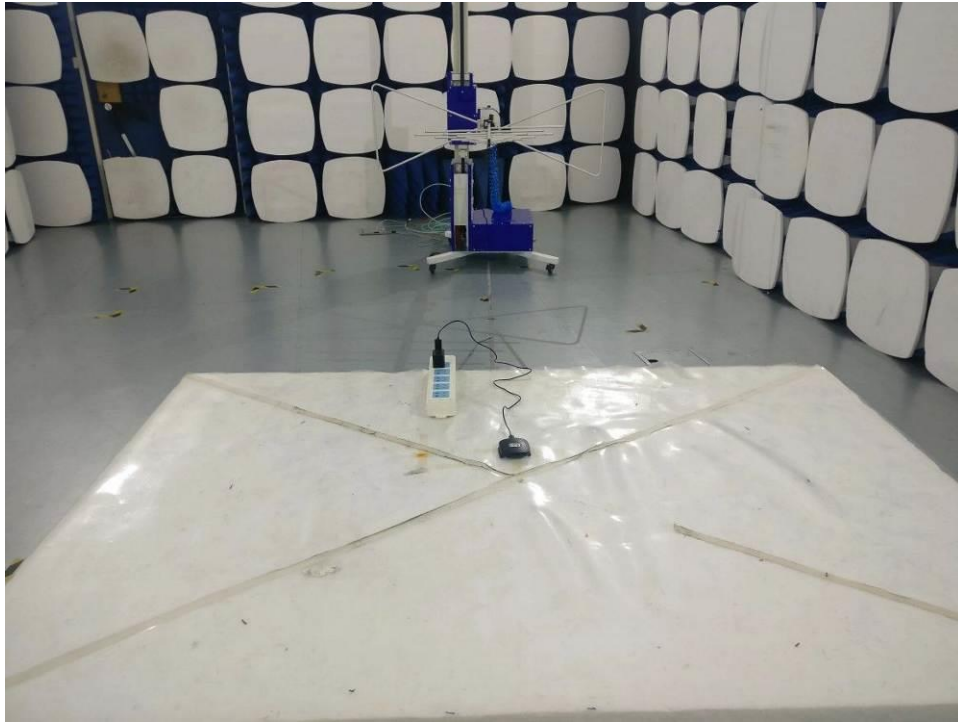
5.3.4.3 Spurious Emission in Restricted Band 3260MHz-18000MHz

All the modulation modes have been tested, and the worst result was report as below:

Frequency (MHz)	Reading Level (dB μ V)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type	Comment
3260	60.21	4.04	29.57	44.70	49.12	74	-24.88	Pk	Vertical
3260	50.02	4.04	29.57	44.70	38.93	54	-15.07	AV	Vertical
3260	61.29	4.04	29.57	44.70	50.20	74	-23.80	Pk	Horizontal
3260	51.25	4.04	29.57	44.70	40.16	54	-13.84	AV	Horizontal
3332	65.54	4.26	29.87	44.40	55.27	74	-18.73	Pk	Vertical
3332	53.38	4.26	29.87	44.40	43.11	54	-10.89	AV	Vertical
3332	63.26	4.26	29.87	44.40	52.99	74	-21.01	Pk	Horizontal
3332	52.59	4.26	29.87	44.40	42.32	54	-11.68	AV	Horizontal
17797	44.30	10.99	43.95	43.50	55.74	74	-18.26	Pk	Vertical
17797	32.57	10.99	43.95	43.50	44.01	54	-9.99	AV	Vertical
17788	44.02	11.81	43.69	44.60	54.92	74	-19.08	Pk	Horizontal
17788	32.48	11.81	43.69	44.60	43.38	54	-10.62	AV	Horizontal

Photographs of the Test Setup

Radiated emission



Conducted emission



Photographs of the EUT

See the APPENDIX 1: EUT PHOTO in the report No.: MTi181018E051-1.

----END OF REPORT----