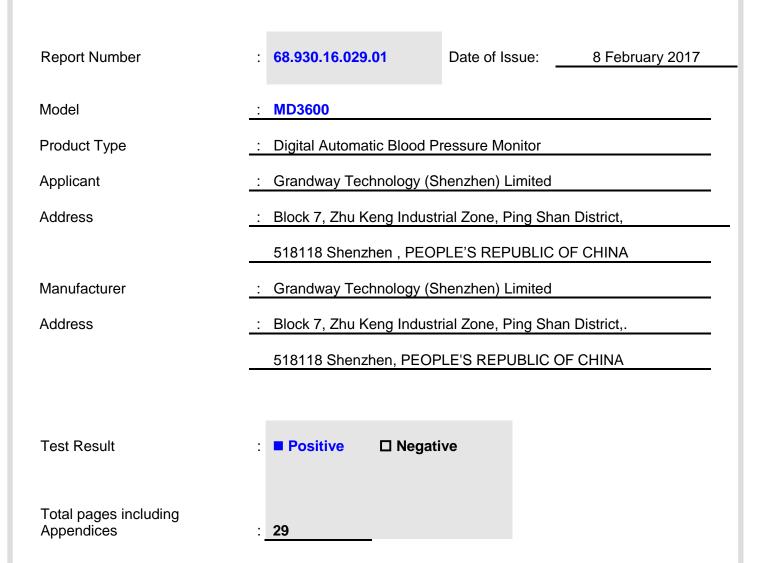
Report Number: 68.930.16.029.01



## **FCC - TEST REPORT**



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# 2 Details about the Test Laboratory

## **Details about the Test Laboratory**

Test Site 1

Company name:	TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch			
	Building 12 & 13, Zhiheng Wisdomland Business Park, Nantou Checkpoint Road 2, Nanshan District			
	Shenzhen 518052			
	P.R. China			
Telephone:	86 755 8828 6998			
Fax:	86 755 828 5299			
FCC Registration No.:	502708			



# **3** Description of the Equipment Under Test

Product:	Digital Automatic Blood Pressure Monitor
Model no.:	MD3600
Options and accessories:	Nil
Rating:	6VDC (Supplied by 4 x 1.5 AA batteries)
RF Transmission	2402MHz-2480MHz
Frequency: No. of Operated Channel:	40
Modulation:	GFSK
Antenna Type:	Internal antenna
Antenna Gain:	3.3dBi
Description of the EUT:	The Equipment Under Test (EUT) is Bluetooth Digital Automatic Blood Pressure Monitor operated at 2.4GHz



## 4 Summary of Test Standards

Test Standards				
FCC Part 15 Subpart C	PART 15 - RADIO FREQUENCY DEVICES			
10-1-2016 Edition	Subpart C - Intentional Radiators			



## 5 Summary of Test Results

Technical Requirements				
FCC Part 15 Sub	part C			
Test Condition		Pages	Test Result	
§15.207	Conducted emission AC power port		N/A	
§15.247(b)(1)	Conducted peak output power	10	Pass	
§15.247(e)	Power spectral density	13	Pass	
§15.247(a)(2)	6dB bandwidth	16	Pass	
§15.247(a)(1)	20dB bandwidth and 99% Occupied Bandwidth		N/A	
§15.247(a)(1)	Carrier frequency separation		N/A	
§15.247(a)(1)(iii)	§15.247(a)(1)(iii) Number of hopping frequencies		N/A	
§15.247(a)(1)(iii)	Dwell Time		N/A	
§15.247(d)	Spurious RF conducted emissions	19	Pass	
§15.247(d)	Band edge	23	Pass	
§15.247(d) & §15.209 &	Spurious radiated emissions for transmitter	25	Pass	
§15.203	Antenna requirement	See note 1	Pass	

Note 1: N/A=Not Applicable.

Note 2: The EUT uses a Chip antenna, which gain is 3.3dBi. In accordance to §15.203, it is considered sufficiently to comply with the provisions of this section.

## 6 General Remarks

#### Remarks

This submittal(s) (test report) is intended for FCC ID: 2ABAFMD3600 complies with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C rules.

### SUMMARY:

All tests according to the regulations cited on page 5 were

- Performed
- □ Not Performed
- The Equipment under Test
- - Fulfills the general approval requirements.
- □ **Does not** fulfill the general approval requirements.
- Sample Received Date: November 8, 2016
- Testing Start Date: November 10, 2016
- Testing End Date: January 23, 2017
- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch -

Reviewed by:

Prepared by:

Phoebe Hu EMC Project Manager

repared by.

byfeir

Ricky Yin EMC Project Engineer

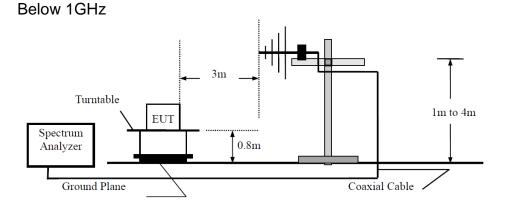
Tested by:

) tie

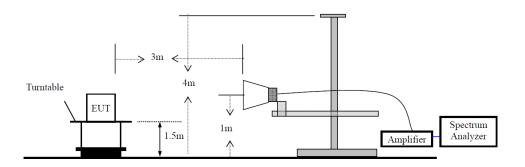
Endy Xie EMC Test Engineer



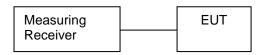
## 7 Test Setups



## Above 1GHz



## 7.2 Conducted RF test setups







## 8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION MANUFACTURER		MODEL NO.(SHIELD)	S/N(LENGTH)
PC Lenovo		X220	



## 9 Technical Requirement

## 9.1 Conducted peak output power

### **Test Method**

- Use the following spectrum analyzer settings: RBW > the 6 dB bandwidth of the emission being measured, VBW≥3RBW, Span≥3RBW Sweep = auto, Detector function = peak, Trace = max hold.
- 2. Add a correction factor to the display.
- 3. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power.

### Limits

According to §15.247 (b) (1), conducted peak output power limit as below:

Frequency Range	Limit	Limit
MHz	W	dBm
2400-2483.5	≤1	≤30

### Test result as below table

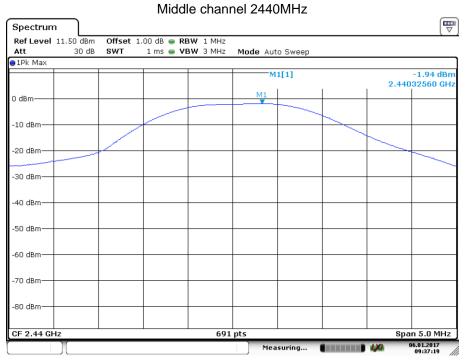
Frequency MHz	Conducted Peak Output Power dBm	Result
Bottom channel 2402MHz	-1.01	Pass
Middle channel 2440MHz	-1.94	Pass
Top channel 2480MHz	-3.26	Pass



Low channel 2402MHz

Spectrum						
Ref Level 11.50 dBm Att 30 dB	0 dB 👄 RB 1 ms 👄 VB		Mode Aut	o Sweep		
●1Pk Max						
				1[1]	2.402	-1.01 dBn 33290 GH
0 dBm	_		M1			
-10 dBm						
-20 dBm						
-30 dBm						
-40 dBm						
-50 dBm						
-60 dBm						
-70 dBm						
-80 dBm						
CF 2.402 GHz		691	pts			n 5.0 MHz
			Mea	suring	1,70	06.01.2017 09:36:39

Date: 6.JAN.2017 09:36:38



Date: 6.JAN.2017 09:37:19

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High channel 2480MHz Spectrum Ref Level 11.50 dBm Att 30 dB SWT Mode Auto Sweep ⊖1Pk Max M1[1] -3.26 dBm 2.47984080 GHz 0 dBm· -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm 691 pts Span 5.0 MHz CF 2.48 GHz 06.01.2017 09:37:48 Measuring... 

Date: 6.JAN.2017 09:37:47



## 9.2 Power spectral density

#### **Test Method**

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance:

- Set analyzer center frequency to DTS channel center frequency. RBW=3kHz, VBW≥3RBW, Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
- 2. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
- 3. Repeat above procedures until other frequencies measured were completed.

### Limit

Limit [dBm]

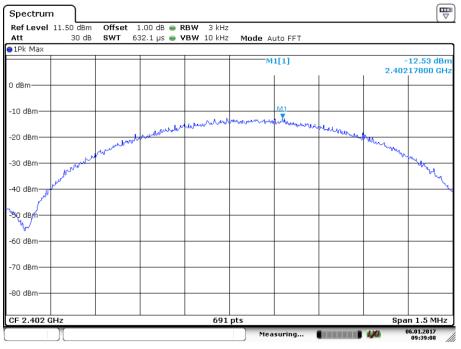
≤8

Test result

	Power spectral	
Frequency	density	Result
MHz	dBm	
Top channel 2402MHz	-12.53	Pass
Middle channel 2440MHz	-13.96	Pass
Bottom channel 2480MHz	-15.16	Pass



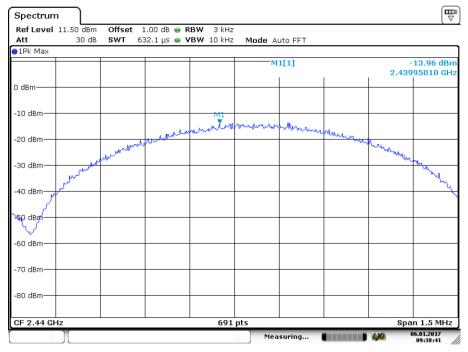
Low channel 2402MHz



Date: 6.JAN.2017 09:39:08



#### Middle channel 2440MHz



Date: 6.JAN.2017 09:38:41



High channel 2480MHz

Date: 6.JAN.2017 09:38:10

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## 9.3 6 dB Bandwidth and 99% Occupied Bandwidth

#### **Test Method**

1. Use the following spectrum analyzer settings:

RBW=100K, VBW $\geq$ 3RBW, Sweep = auto, Detector function = peak, Trace = max hold 2. Use the automatic bandwidth measurement capability of an instrument, may be employed using the X dB bandwidth mode with X set to 6 dB, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be  $\geq$  6 dB.

3. Allow the trace to stabilize, record the X dB Bandwidth value.

### Limit

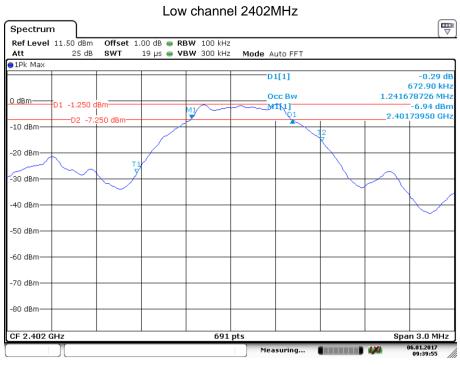
Limit [kHz]

≥500

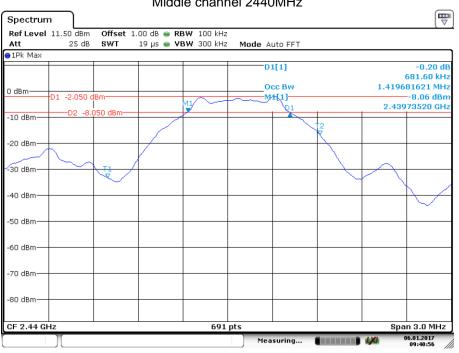
Test result			
Frequency MHz	6dB bandwidth kHz	99 bandwidth kHz	Result
Bottom channel 2402MHz	672.90	1241.67	Pass
Middle channel 2440MHz	681.60	1419.68	Pass
Top channel 2480MHz	681.60	1445.73	Pass



#### 6 dB Bandwidth



Date: 6.JAN.2017 09:39:55



Middle channel 2440MHz

Date: 6.JAN.2017 09:40:56

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High channel 2480MHz Spectrum Ref Level 11.50 dBm Offset 1.00 dB 🖷 RBW 100 kHz 25 dB SWT 19 µs 👄 **VBW** 300 kHz Mode Auto FFT Att ●1Pk Max -0.22 dB 681.60 kHz D1[1] Occ Bw 1.445730825 MHz 0 dBm--9.34 dBm 2.47972210 GHz M1[1] D1 -3.350 dBm-41 D2 -9 50 dBm -10 dBm· ₹1 -20 dBm 30 dBm 40 dBm -50 dBm -60 dBm -70 dBm -80 dBm Span 3.0 MHz CF 2.48 GHz 691 pts 4,0 6.01.2017 09:41:36 Measuring...

Date: 6.JAN.2017 09:41:36

EMC\_SZ\_FR\_21.00 FCC Release 2014-03-20



## 9.4 Spurious RF conducted emissions

### **Test Method**

- 1. Establish a reference level by using the following procedure:
  - a. Set RBW=100 kHz. VBW≥3RBW. Detector =peak, Sweep time = auto couple, Trace mode = max hold.
  - b. Allow trace to fully stabilize, use the peak marker function to determine the maximum PSD level.
- 2. Use the maximum PSD level to establish the reference level.
  - a. Set the center frequency and span to encompass frequency range to be measured.
  - b. Use the peak marker function to determine the maximum amplitude level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements, report the three highest emissions relative to the limit.
- 3. Repeat above procedures until other frequencies measured were completed.

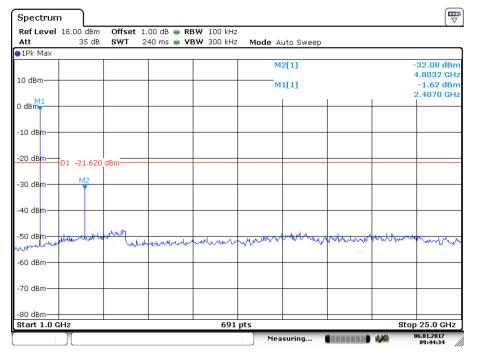
### Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20



#### **Spurious RF conducted emissions**

2402MHz **T** Spectrum Ref Level 18.00 dBm Offset 1.00 dB 👄 RBW 100 kHz 35 dB SWT 9.7 ms 👄 **VBW** 300 kHz Mode Auto Sweep Att ●1Pk Max M1[1] -52.11 dBm 975.40 MHz 10 dBm 0 dBm -10 dBm -20 dBm D1 -21.620 dBm -30 dBm 40 dBm -50 dBm والارتباء السعرين Metha Jul and 44 Automatic Inclus and have been as a star of the start and the -60 dBm -70 dBm -80 dBm 691 pts Stop 1.0 GHz Start 30.0 MHz 06.01.2017 09:44:55 Measuring... Date: 6.JAN.2017 09:44:55



Date: 6.JAN.2017 09:44:35

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2440MHz

18.00 dBm 35 dB	Offset SWT			Mode A	uto Sweep			
				м	1[1]			52.28 dB
								521.70 MH
D1 -23 710	dBm							
51 -25,710	abiii							
				N	м <u>1</u>	1. J		han bild same da sa
withher	howerhall	unnhagenpelapa	Murlestreamber	-Nr. Noverane	Munithyra		NO.O. ALGORINA	0000-0000-0-0
MHz			691 j	<u>\</u>	suring			p 1.0 GHz
	D1 -23.710	35 dB SWT	35 dB SWT 9.7 ms • V	35 dB SWT 9.7 ms • VBW 300 kHz	35 dB SWT 9.7 ms • VBW 300 kHz Mode A	35 dB     SWT     9.7 ms     VBW     300 kHz     Mode     Auto Sweep       M1[1]     M1[1]       D1     -23.710     dBm     Image: State	35 dB     SWT     9.7 ms     VBW 300 kHz     Mode Auto Sweep       M1[1]	35 dB     SWT     9.7 ms     VBW     300 kHz     Mode Auto Sweep       M1[1]

**T** Spectrum Ref Level 18.00 dBm Offset 1.00 dB 👄 RBW 100 kHz Att 35 dB SWT 240 ms 🖷 VBW 300 kHz Mode Auto Sweep ●1Pk Max M2[1] -32.73 dBr 4.8730 GHz 10 dBm -3.71 dBm 2.4410 GHz M1[1] 0 dBm -10 dB -20 dB D1 -23.710 dBm--30 dB -40 dBm -50 dBm-MAN weeks have been the state wrren -60 dBm -70 dBm -80 dBm Stop 25.0 GHz Start 1.0 GHz 691 pts Measuring... 06.01.2017 09:45:51 Da

Date: 6.JAN.2017 09:45:51

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2480MHz

Ref Level Att	18.00 dBm 35 dB	Offset SWT	1.00 dB 👄 RI 9.7 ms 👄 VI		Mode A	uto Sweep			
1Pk Max					niouo n				
					М	1[1]			-52.49 dBr 910.90 MH
10 dBm									
0 dBm									
-10 dBm—									
-20 dBm—									
-30 dBm	D1 -25.590	dBm							
-40 dBm—									
-50 dBm									M1
مال <sup>ى</sup> ى بى <sub>مە</sub> يل <sub>ى</sub> رىنىدىدىر	hallor lander	howwww.	with the way and and	nyman	www.	workenwoon	hardplanter	prised from a second	Marthalanghirth
-60 dBm									+
-70 dBm—									
-80 dBm									
Start 30.0	MHz			691					op 1.0 GHz 06.01.2017
					Mea	suring		4,70	09:47:24

Spectrun	'n								
Ref Level	18.00 dBm	Offset	1.00 dB 😑	RBW 100 kHz					
Att	35 dB	SWT	240 ms 👄	<b>VBW</b> 300 kHz	Mode 4	uto Sweep			
⊖1Pk Max									
					M	12[1]			-37.23 dBm
10 dBm									4.9770 GHz
10 dbiii					M	11[1]			-5.59 dBm
						1	1	1	2.4760 GHz
0 dBm									<u> </u>
Ţ									
-10 dBm						-	-		
-20 dBm									
-20 0011									
	D1 -25.590	) dBm							<u> </u>
-30 dBm						-			<u>                                     </u>
	M2								
-40 dBm									<u> </u>
E0 dpm		with				يه استاد		1. 4 10	
-50 dBm	- martine and	- w	windhere	meter water of	wanter	han and	WWWWhite	man	and the parties
-60 dBm									<u> </u>
-70 dBm									
-80 dBm									
-80 dBm Start 1.0 G	247			691	nts			Stor	25.0 GHz
	)(			091					06.01.2017
	Л				Me	asuring		LVa .	09:46:57

Date: 6.JAN.2017 09:46:58

EMC\_SZ\_FR\_21.00 FCC Release 2014-03-20 Page 22 of 29



## 9.5 Band edge

#### **Test Method**

1 Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 kHz, VBW  $\ge$  RBW, Sweep = auto, Detector function = peak, Trace = max hold.

- 2 Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 3 The level displayed must comply with the limit specified in this Section.

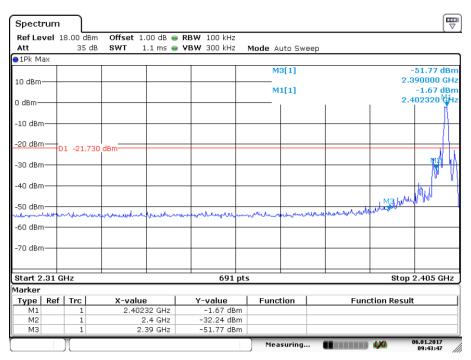
### Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20



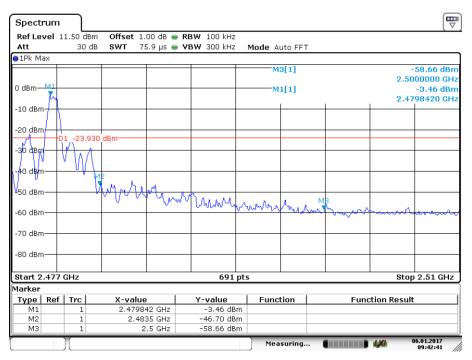
#### **Band edge testing**

#### 2402MHz



Date: 6.JAN.2017 09:43:47

#### 2480MHz



Date: 6.JAN.2017 09:42:41

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## 9.6 Spurious radiated emissions for transmitter

### **Test Method**

1: The EUT was place on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

2: The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.

3: The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

4: For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

5: Use the following spectrum analyzer settings According to C63.10:

### For Above 1GHz

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 1MHz, VBW≥RBW for peak measurement and VBW = 10Hz for average measurement, Sweep = auto, Detector function = peak, Trace = max hold.

### For Below 1GHz

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 KHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

### Note:

1: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Quasi-peak detection (QP) at frequency below 1GHz.

2: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for peak detection (PK) at frequency above 1GHz.

3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average ((duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor (20log(1/duty cycle).

4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (duty cycle > 98%) for Average detection (AV) at requencyabove1GHz



### Limit

The radio emission outside the operating frequency band shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Radiated emissions which fall in the restricted bands, as defined in section15.205, must comply with the radiated emission limits specified in section 15.209.

Frequency MHz	Field Strength uV/m	Field Strength dBµV/m	Detector
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK



#### Spurious radiated emissions for transmitter

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

#### Transmitting spurious emission test result as below:

2402MHz (Abo	ove 1GHz)					
·	Frequency	Emission Level	Polarization	Limit	Detector	Result
	MHz	dBuV/m		dBµV/m		
	4806.09	40.20	Horizontal	74.00	PK	Pass
	4806.09	37.83	Vertical	74.00	PK	Pass
2440MHz (Abo	ove 1GHz)					
	Frequency	Emission Level	Polarization	Limit	Detector	Result
	MHz	dBuV/m		dBµV/m		
	<b>MHz</b> 4882.03	<b>dBuV/m</b> 39.74	Horizontal	<b>dΒμV/m</b> 74.00	PK	Pass
			Horizontal Vertical	-	PK PK	Pass Pass
2480MHz (Abo	4882.03 5022.18	39.74		74.00		
2480MHz (Abo	4882.03 5022.18	39.74		74.00		
2480MHz (Abo	4882.03 5022.18 ove 1GHz)	39.74 37.00 Emission	Vertical	74.00 74.00	PK	Pass
2480MHz (Abo	4882.03 5022.18 ove 1GHz) Frequency	39.74 37.00 Emission Level	Vertical	74.00 74.00	PK	Pass

#### Remark:

(1) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20db below the permissible limits or the field strength is too small to be measured.

(2) "\*" means the emission(s) appear within the restrict bands shall follow the requirement of section 15.205.



# **10 Test Equipment List**

### **List of Test Instruments**

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
Signal Analyzer	Rohde & Schwarz	FSV40	101030	2017-7-15
EMI Test Receiver	Rohde & Schwarz	ESR 26	101269	2017-7-15
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	707	2017-8-3
Horn Antenna	Rohde & Schwarz	HF907	102294	2017-7-15
Pre-amplifier	Rohde & Schwarz	SCU 18	102230	2017-7-15
3m Semi-anechoic chamber	TDK	9X6X6		2019-5-29
EMI Test Receiver	Rohde & Schwarz	ESR 26	101269	2017-7-15
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	707	2017-8-3
Horn Antenna	Rohde & Schwarz	HF907	102294	2017-7-15

C - Conducted RF tests

- Conducted peak output power
- 6dB bandwidth and 99% Occupied Bandwidth
- Power spectral density\*
- Spurious RF conducted emissions
- Band edge



## **11 System Measurement Uncertainty**

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty						
Test Items	Extended Uncertainty					
Uncertainty for Radiated Spurious Emission 25MHz-	Horizontal: 4.98dB;					
3000MHz	Vertical: 5.06dB;					
Uncertainty for Radiated Spurious Emission 3000MHz-	Horizontal: 4.95dB;					
18000MHz	Vertical: 4.94dB;					
Uncertainty for Radiated Spurious Emission 18000MHz-	Horizontal: 5.14dB;					
40000MHz	Vertical: 5.12dB;					
Uncertainty for Conducted RF test with TS 8997	Power level test involved: 2.06dB Frequency test involved: 1.16×10-7					