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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO **FCC PART 15 SUBPART C REQUIREMENT**

Upper Arm Automatic Digital Blood Pressure Product Name:

Monitor

CVS Brand Name:

Blood Pressure Monitor Marketing Name:

BP3MW1-4B; BP3MW1-4BCVS Model No.:

The model difference on functions.

BP3MW1-4B with USB DRIVER IC, Mini USB **Model Difference:**

Jack and Mini Link functions.

U7I-BP3MW1-4B FCC ID:

ER/2015/80052 **Report No.:**

Nov. 11, 2015 **Issue Date:**

§15.247, Cat: DTS **FCC Rule Part:**

Microlife Corporation

Prepared for: 9F, 431, RuiGuang Road, Nei –Hi, Taipei,

114, Taiwan

SGS Taiwan Ltd.

Electronics & Communication Laboratory Prepared by:

No.134, Wu Kung Road, New Taipei Industrial Park,

Wuku District, New Taipei City, Taiwan 24803





Testing Laboratory 0513

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VERIFICATION OF COMPLIANCE

Applicant: Microlife Corporation

9F, 431, RuiGuang Road, Nei -Hi, Taipei, 114, Taiwan

Upper Arm Automatic Digital Blood Pressure Monitor **Product Name:**

Brand Name: CVS

Marketing Name: Blood Pressure Monitor

BP3MW1-4B; BP3MW1-4BCVS Model No.:

The model difference on functions. BP3MW1-4B with USB DRIV-**Model Difference:**

ER IC, Mini USB Jack and Mini Link functions.

FCC ID: U7I-BP3MW1-4B

ER/2015/80052 **Report Number:**

Date of test: Aug. 14, 2015 ~ Nov. 11, 2015

Date of EUT Received: Aug. 14, 2015

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Test By:	Marcus Tseng	Date	Nov. 11, 2015	
Prepared By:	Marcus Tseng/Engineer Karen Huang	Date	Nov. 11, 2015	
Approved By:	Karen Huang / Clerk Jim Chang / Asst. Manager		Nov. 11, 2015	

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Revision History

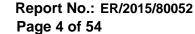
Report Number	Revision	Description	Issue Date
ER/2015/80052	Rev.00	Initial creation of document	Nov. 11, 2015

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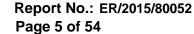
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GENERAL INFORMATION

Product Description

General:

Product Name:	Upper Arm Automatic Digital Blood Pressure Monitor				
Brand Name:	CVS				
Marketing Name:	Blood Pre	ssure Monitor			
Model No.:	BP3MW1	-4B; BP3MW1-4BCVS			
Model Difference:	The model difference on functions. BP3MW1-4B with USB DRIVER IC, Mini USB Jack and Mini Link functions.				
Product SW/HW version:	N/A				
Radio SW/HW version:	N/A				
Test SW Version:	N/A				
RF power setting in TEST SW:	N/A				
Arm Cuff:	Model No.: N/A, Supplier: N/A				
	6.0Vdc from AA 1.5Vdc batteries*4 or AC/DC Adapter				
Power Supply:	Adapter:	Model No.: DSA-6E-05 US 60060, Supplier: microlife.			

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Bluetooth Low Energy:

Frequency Range:	2402 – 2480MHz
Bluetooth Version:	V4.0 single mode
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	6.60 dBm
Antenna Designation:	PCB Antenna, Gain: -2.44dBi

1.2 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is Upper Arm Automatic Digital Blood Pressure Monitor supporting, Wi-Fi 802.11abgn, Bluetooth features, and below is details of information.

Product Feature					
Product Name: Upper Arm Automatic Digital Blood Pressure Monitor					
Brand Name: CVS					
Marketing Name:	Blood Pressure Monitor				
Model No.:	BP3MW1-4B; BP3MW1-4BCVS				
Model Difference:	The model difference on functions. BP3MW1-4B with USB DRIVER IC, Mini USB Jack and Mini Link functions.				
FCC ID:	U7I-BP3MW1-4B				
Bluetooth Version	V4.0 single mode				
Modulation Type:	GFSK				

Note: The above EUT information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 DTS Meas. Guidance V03r03

ANSI C63.10:2013

Note:

- 1. All test items have been performed and record as per the above standards.
- The composite system is compliance with FCC Subpart B is authorized under a DoC procedure.

Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. (TAF code 0513)

FCC Registration Numbers are: 990257 (Wugu)

Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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SYSTEM TEST CONFIGURATION

EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

Test Procedure 2.3

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plan. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz.. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plan. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Following shows an offset computation example with cable loss 0.5dB

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission & Conducted (Antenna Port) Configuration



Fig. 2-3 AC Power Line Conducted Emission



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model /Type No.	Series No.	Data Cable	Power Cord
1.	Bluetooth Test Software	N/A	N/A	N/A	N/A	N/A
2.	Test Tool Kit	N/A	N/A	N/A	N/A	N/A

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SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	Peak Output Power	Compliant
§15.247(a)(2)	6dB Bandwidth	Compliant
§15.247(d)	Conducted Band Edge and Spurious Emission	Compliant
§15.247(d)	Radiated Band Edge and Spurious Emission	Compliant
§15.247(e)	Peak Power Density	Compliant
§15.203 §15.247(b)	Antenna Requirement	Compliant

DESCRIPTION OF TEST MODES

Operated in 2400 ~ 2483.5MHz Band

40 channels are provided for Bluetooth LE

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
0	2402 MHz	14	2430 MHz	28	2458 MHz
1	2404 MHz	15	2432 MHz	29	2460 MHz
2	2406 MHz	16	2434 MHz	30	2462 MHz
3	2408 MHz	17	2436 MHz	31	2464 MHz
4	2410 MHz	18	2438 MHz	32	2466 MHz
5	2412 MHz	19	2440 MHz	33	2468 MHz
6	2414 MHz	20	2442 MHz	34	2470 MHz
7	2416MHz	21	2444 MHz	35	2472 MHz
8	2418 MHz	22	2446 MHz	36	2474 MHz
9	2420 MHz	23	2448 MHz	37	2476 MHz
10	2422 MHz	24	2450 MHz	38	2478 MHz
11	2424 MHz	25	2452 MHz	39	2480 MHz
12	2426 MHz	26	2454 MHz		
13	2428 MHz	27	2456 MHz		

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4.2 The Worst Test Modes and Channel Details

- 1. The EUT has been tested under operating condition.
- 2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)							
MODE	AVAILABLE	TESTED	MODULATION	DATA RATE	ANTENNA		
	CHANNEL	CHANNEL		(Mbps)	PORT		
Bluetooth LE	0 to 39	0,19,39	GFSK	1	MAIN		
	RADIA	TED EMISSION	N TEST (ABOVE	1 GHz)			
MODE	AVAILABLE	TESTED	MODULATION	DATA RATE	ANTENNA		
IVIODE	CHANNEL	CHANNEL	INIODOLATION	(Mbps)	PORT		
Bluetooth LE	0 to 39	0,19,39	GFSK	1	MAIN		

Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for Bluetooth LE Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	AVAILABLE	TESTED	MODULATION	DATA RATE	ANTENNA	
IVIODE	CHANNEL	CHANNEL	MODULATION	(Mbps)	PORT	
Bluetooth LE	0 to 39	0,19,39	GFSK	1	MAIN	

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MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Peak Output Power	+/- 0.84 dB
6dB Bandwidth	+/- 51.33 Hz
100 KHz Bandwidth Of Frequency Band Edges	+/- 0.84 dB
Peak Power Density	+/- 1.3 dB
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission:

Management	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
Measurement uncertainty (Polarization : Vertical)	0.417GHz-1GHz: +/- 3.19dB
(Folalization : Vertical)	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

	30MHz - 167MHz: +/- 4.22dB
Measurement uncertainty	167MHz -500MHz: +/- 3.44dB
(Polarization : Horizontal)	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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CONDUCTED EMISSION TEST

Standard Applicable:

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range	Limits dB(uV)		
MHz	Quasi-peak Average		
0.15 to 0.50	66 to 56	56 to 46	
0.50 to 5	56	46	
5 to 30	60	50	

Note

- 1. The lower limit shall apply at the transition frequencies
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2 Measurement Equipment Used:

Conducted Emission Test Site						
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.	
TYPE		NUMBER	NUMBER	CAL.		
EMI Test Receiver	R&S	ESCI7	100760	05/04/2015	05/03/2016	
LISN	SCHWARZBECK	NSLK 8127	8127-649	05/15/2015	05/14/2016	
LISN	FCC	FCC-LISN-50 /250-25-2-01	04034	03/13/2015	03/12/2016	
Coaxial Cables	N/A	WK CE Cable	N/A	11/26/2014	11/25/2015	

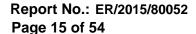
6.3 EUT Setup:

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.

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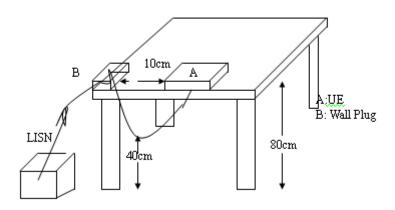
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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure:

- 1. The EUT was placed on a table which is 0.8m above ground plan.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all phases of power being supplied by given UE are completed

6.6 Measurement Result:

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

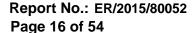
Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit

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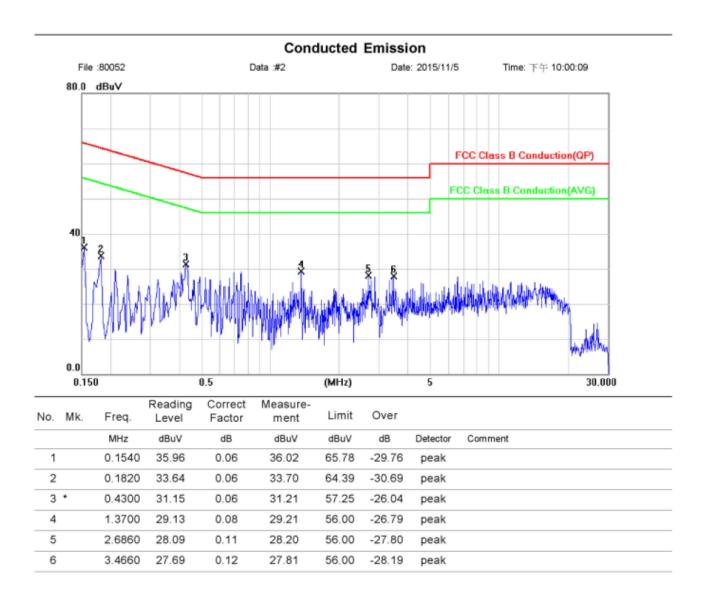
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	BT4.0			Test Date:	Nov. 05, 215
Temperature:	24	Humidity:	70%	Test By:	JJ
Model No.:	Adapter:	DSA-6E-05 US	60060	Phase:	L1 / N



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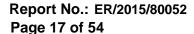
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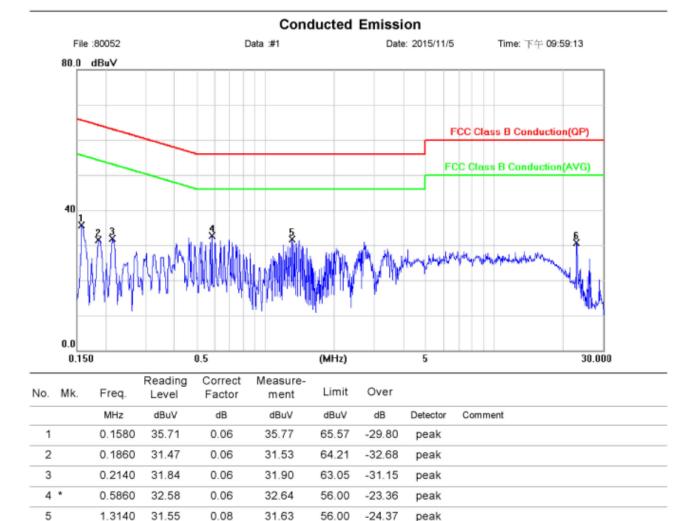
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-29.27

peak

60.00

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0.44

30.73

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22.9740

30.29

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PEAK OUTPUT POWER MEASUREMENT

Standard Applicable:

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

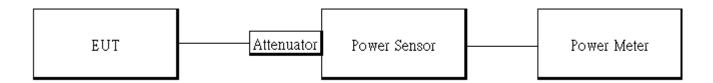
If the transmitting antenna of directional gain greater than 6dBi are used the peak output power form the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

Measurement Equipment Used:

measurement Equipment Oseu.						
Conducted Emission Test Site						
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.	
TYPE		NUMBER	NUMBER	CAL.		
Power Meter	Anritsu	ML2495A	1005007	12/20/2014	12/19/2015	
Power Sensor	Anritsu	MA2411B	917032	12/20/2014	12/19/2015	
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016	
Low Loss Cable	HUBER+SUHN ER	SUCOFLEX 104PEA	N/A	01/02/2015	01/01/2016	
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016	
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016	

7.3 Test Set-up:

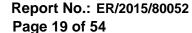


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7.4 Measurement Procedure:

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r03.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

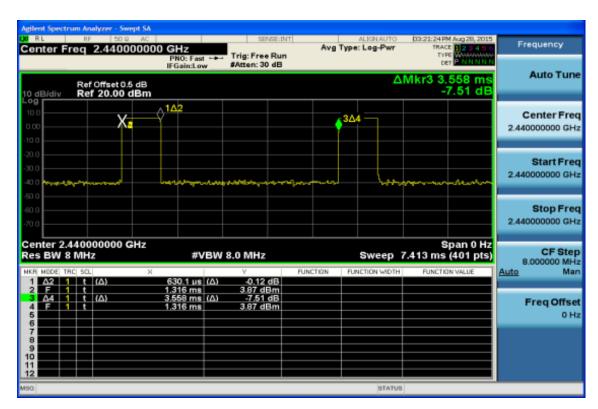
Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

- 4. Record the max. Reading as observed from Power Meter.
- 5. Repeat above procedures until all test default channel measured was complete.

Duty Factor:

	Duty Cycle	Duty Fator (dB)
Bluetooth LE	17.70%	7.52



Duty Cycle Factor: $10 * \log (1/0.177) = 7.52$

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Measurement Result:

BT4.0 mode:

СН	Frequency (MHz)	Peak Power Output(dBm)	Required Limit
0	2402	6.60	1 Watt = 30 dBm
19	2440	6.39	1 Watt = 30 dBm
39	2480	5.66	1 Watt = 30 dBm

		Average Davier	
СН	Frequency (MHz)	Average Power Output(dBm)	Required Limit
0	2402	-1.16	1 Watt = 30 dBm
19	2440	-1.58	1 Watt = 30 dBm
39	2480	-2.58	1 Watt = 30 dBm

*Note: Measured by power meter, as cable loss+ Duty cycle factor that offsets on the power meter

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6dB BANDWIDTH MEASUREMENT

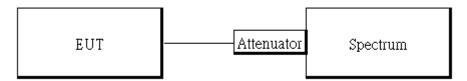
8.1 Standard Applicable

The minimum 6 dB bandwidth shall be at least 500 kHz.

8.2 Measurement Equipment Used

Conducted Emission Test Site						
EQUIPMENT MFR MODEL SERIAL LAST CAL DUE						
TYPE	TYPE NUMBER NUMBER CAL.					
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016	
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016	
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016	

8.3 Test Set-up:



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8.4 Measurement Procedure:

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r03.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. For 6dB Bandwidth:

Set the spectrum analyzer as RBW=100 kHz, VBW= 3*RBW, Span = 5MHz, Detector=Peak, Sweep=auto.

- 5. Mark the peak frequency and –6dB (upper and lower) frequency.
- 6. For 99% Bandwidth:

Set the spectrum analyzer as RBW=1%, VBW=3*RBW, Span = 2MHz, Detector=Sample, Sweep=auto.

- 7. Turn on the 99% bandwidth function, max reading.
- 8. Repeat above procedures until all test default channel is completed

8.5 Measurement Result:

BT4.0 mode

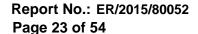
Frequency (MHz)	Bandwidth (MHz)	Bandwidth (MHz)	Result
2402	0.609	> 0.5	PASS
2440	0.6319	> 0.5	PASS
2480	0.7495	> 0.5	PASS

Note: Refer to next page for plots.

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BT4.0 mode 6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

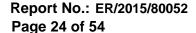


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6dB Band Width Test Data CH-High



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CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

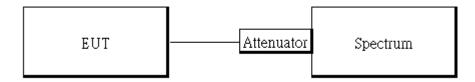
9.1 **Standard Applicable**

In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. 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).

Measurement Equipment Used:

Conducted Emission Test Site							
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.		
TYPE		NUMBER	NUMBER	CAL.			
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016		
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016		
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016		

Test SET-UP: 9.3



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9.4 Measurement Procedure

Conducted Band Edge:

- To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r03.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
- 5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
- 6. Mark the highest reading of the emission as the reference level measurement.
- 7. Set DL as the limit = reading on marker 1 20dBm
- 8. Marker on frequency, 2.3999GHz and 2.4836GHz, and examine shall 100 kHz immediately outside the authorized (2400~2483.5) be attenuated by 20dB at least relative to the maximum emission of power.
- 9. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Conducted Spurious Emission:

- To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r03.
- 3. Set RBW = 100 kHz & VBW=300 kHz, Detector = Peak, Sweep = Auto
- 4. Allow trace to fully stabilize.
- 5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
- 6. Repeat above procedures until all default test channel measured were complete.

9.5 Measurement Result

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

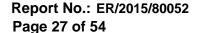
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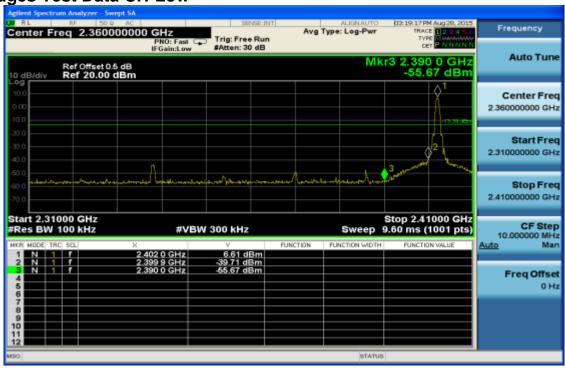
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BT4.0 mode





Band Edges Test Data CH-High



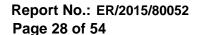
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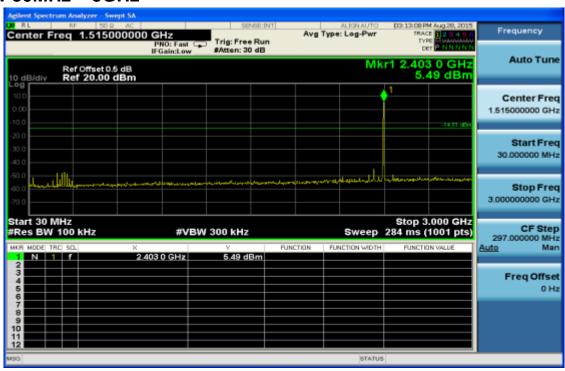
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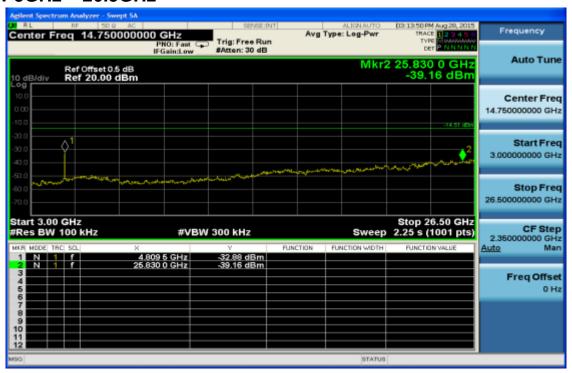




Conducted Spurious Emission Measurement Result CH-Low 30MHz - 3GHz



CH-Low 3GHz - 26.5GHz



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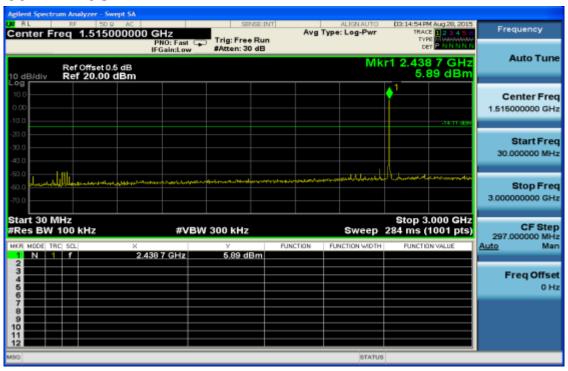
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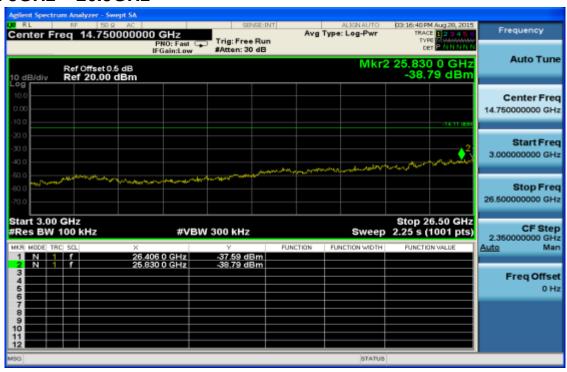
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CH-Mid 30MHz - 3GHz



CH-Mid 3GHz - 26.5GHz



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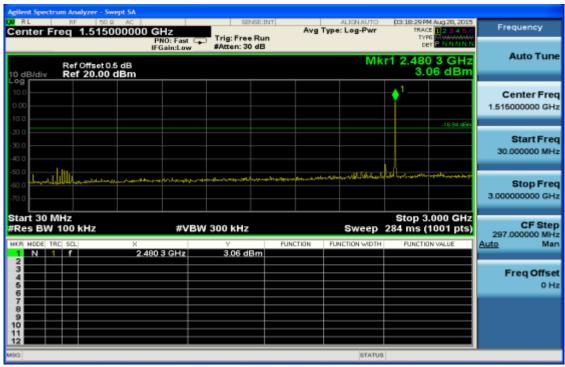
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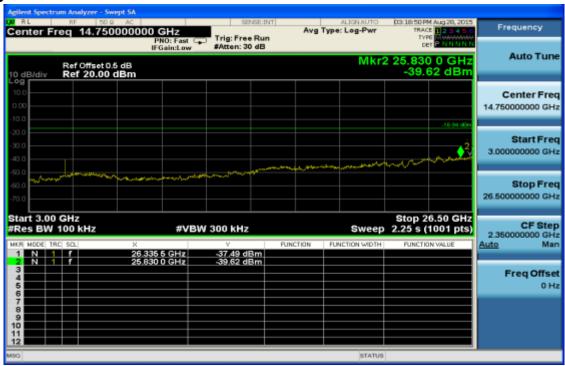
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CH-High 30MHz – 3GHz



CH- High 3GHz - 26.5GHz



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10 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.

And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level $(dB\mu V/m) = 20 \log Emission level (dB\mu V/m)$

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10.2 Measurement Equipment Used

966 Chamber							
EQUIPMENT MFR TYPE		MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
EMI Test Receiver	R&S	ESCI7	100760	05/04/2015	05/03/2016		
EXA Spectrum Analyzer	· Aailent		MY50420195	12/22/2014	12/21/2015		
Spectrum Analyzer	R&S	FSV-30	101398	10/07/2014	10/06/2015		
Loop Antenna	ETS.LINDGREN	6502	00143303	12/9/2014	12/08/2015		
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/23/2014	12/22/2015		
Horn antenna	ETS.LINDGREN	3117	123995	05/05/2015	05/04/2016		
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2014	12/24/2015		
Pre-Amplifier	Agilent	8447D	2944A07676	01/02/2015	01/01/2016		
Pre-Amplifier	Agilent	8449B	3008A00578	01/02/2015	01/01/2016		
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/02/2015	01/01/2016		
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M2	01/02/2015	01/01/2016		
Attenuator	Mini-Circuit	BW-S10W2+	004	01/02/2015	01/01/2016		
Antenna Tower	Antenna Tower ChamPro		060776-ABS	N.C.R	N.C.R		
Controller	ChamPro	EM1000	060776	N.C.R	N.C.R		
Controller	HD	HD100	N/A	N.C.R	N.C.R		
Low Loss Cable	Huber Suhner	966_Rx	9	01/02/2015	01/01/2016		

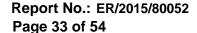
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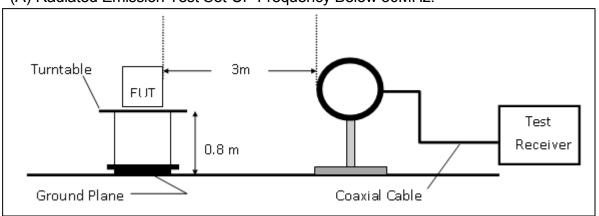
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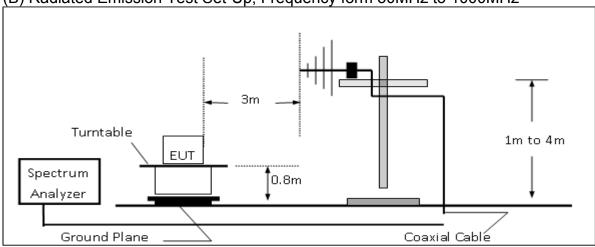


10.3 Test SET-UP

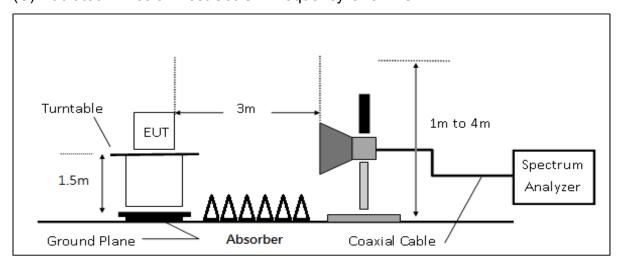
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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10.4 Measurement Procedure

- 1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r03.
- The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequen-2. cy> 1GHz above ground plan.
- The turn table shall rotate 360 degrees to determine the position of maximum emission level. 3.
- EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the 4. highest emissions.
- Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) 5. and Quasi-peak (QP) at frequency below 1 GHz.
- 6. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
- 7. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
- 8. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
- 9. Maximum procedure was performed on the six highest emissions to ensure EUT compli-
- 10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
- 11. Repeat above procedures until all default test channel measured were complete.

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10.5 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	<u> </u>	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre Amplifier Gain(dB)

Note:

"F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency. "E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

10.6 Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

10.7 Measurement Result:

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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Radiated Band Edge Measurement Result (BT4.0 mode)

:2015-09-01 **Operation Band** :BT4.0 **Test Date** Fundamental Frequency Temp./Humi. :23 deg_C /62 RH :2402 MHz

Operation Mode :Band Edge LOW Engineer :JJ

EUT Pol. :E2 Plan Measurement Antenna Pol. :VERTICAL

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dΒμV/m	dB
2338.30	S	Average	31.98	5.06	37.04	54.00	-16.96
2338.30	S	Peak	51.06	5.06	56.12	74.00	-17.88
2390.00	Е	Average	28.26	5.16	33.42	54.00	-20.58
2390.00	Е	Peak	42.55	5.16	47.71	74.00	-26.29

Operation Band :BT4.0 **Test Date** :2015-09-01 **Fundamental Frequency** Temp./Humi. :2402 MHz :23 deg C /62 RH

Operation Mode :Band Edge LOW Engineer :JJ

EUT Pol. :E2 Plan Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
2338.30	S	Average	30.38	5.06	35.44	54.00	-18.56
2338.30	S	Peak	47.58	5.06	52.64	74.00	-21.36
2390.00	Е	Average	27.74	5.16	32.90	54.00	-21.10
2390.00	Е	Peak	41.25	5.16	46.41	74.00	-27.59

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Operation Band :BT4.0 Test Date :2015-09-01 Fundamental Frequency :2480 MHz Temp./Humi. :23 deg_C /62 RH

Operation Mode : Band Edge HIGH Engineer

EUT Pol. :E2 Plan Measurement Antenna Pol. :VERTICAL

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dΒμV/m	dB
2483.50	Е	Average	31.31	6.01	37.32	54.00	-16.68
2483.50	Е	Peak	56.19	6.01	62.20	74.00	-11.80

Operation Band :BT4.0 **Test Date** :2015-09-01 Fundamental Frequency :2480 MHz Temp./Humi. :23 deg_C /62 RH

Operation Mode : Band Edge HIGH Engineer :JJ

EUT Pol. :E2 Plan Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Average	30.03	6.01	36.04	54.00	-17.96
2483.50	E	Peak	50.57	6.01	56.58	74.00	-17.42

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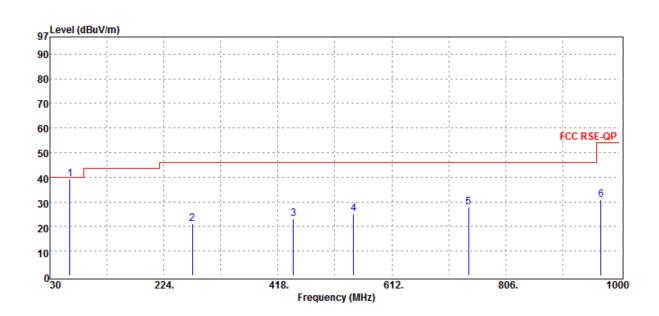
Page 38 of 54

Radiated Spurious Emission Measurement Result (BT4.0 mode) For Frequency form 30MHz to 1000MHz

Test Date Operation Band :BT4.0 :2015-09-01 Fundamental Frequency Temp./Humi. :23 deg_C /62 RH :2402 MHz

Operation Mode :TX LOW Engineer :JJ

EUT Pol. :E2 Plan Measurement Antenna Pol. :VERTICAL

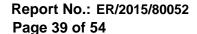


	Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin	
			Mode	Reading Level		FS	@ 3m		
_	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB	
	63.95	S	QP	44.02	-10.79	33.23	40.00	-6.77	
	272.50	S	Peak	29.94	-8.82	21.12	46.00	-24.88	
	444.19	S	Peak	28.90	-5.78	23.12	46.00	-22.88	
	547.01	S	Peak	29.14	-4.03	25.11	46.00	-20.89	
	742.95	S	Peak	28.17	-0.24	27.93	46.00	-18.07	
	967.99	S	Peak	27.14	3.66	30.80	54.00	-23.20	

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Operation Band Fundamental Frequency **Operation Mode**

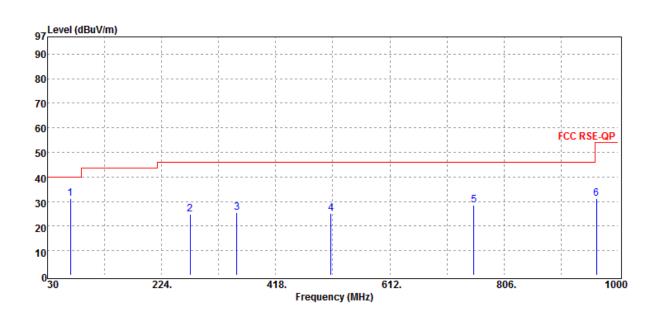
:2402 MHz :TX LOW EUT Pol. :E2 Plan

:BT4.0

Test Date :2015-09-01 Temp./Humi. :23 deg_C /62 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
68.80	S	Peak	42.70	-11.50	31.20	40.00	-8.80
272.50	S	Peak	33.73	-8.82	24.91	46.00	-21.09
352.04	S	Peak	32.61	-7.13	25.48	46.00	-20.52
512.09	S	Peak	29.65	-4.51	25.14	46.00	-20.86
754.59	S	Peak	27.81	0.73	28.54	46.00	-17.46
963.14	S	Peak	27.43	3.70	31.13	54.00	-22.87

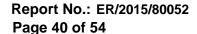
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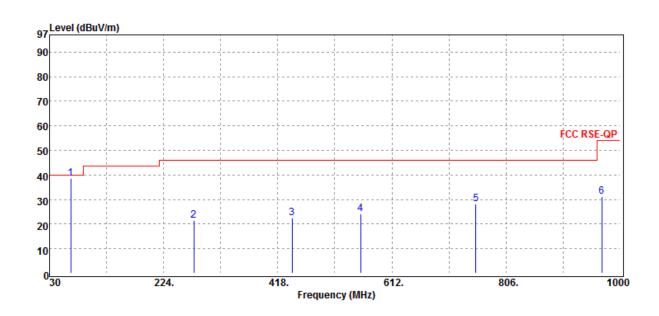




Operation Band Test Date :BT4.0 :2015-09-01 Fundamental Frequency :2440 MHz Temp./Humi. :23 deg_C /62 RH

Operation Mode :TX MID Engineer

EUT Pol. Measurement Antenna Pol. :E2 Plan :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
65.89	S	QP	43.76	-11.07	32.69	40.00	-7.31
275.41	S	Peak	30.05	-8.66	21.39	46.00	-24.61
442.25	S	Peak	28.24	-5.81	22.43	46.00	-23.57
558.65	S	Peak	28.07	-3.85	24.22	46.00	-21.78
754.59	S	Peak	27.54	0.73	28.27	46.00	-17.73
968.96	S	Peak	27.63	3.64	31.27	54.00	-22.73

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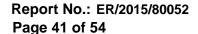
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Operation Band :BT4.0 Fundamental Frequency **Operation Mode**

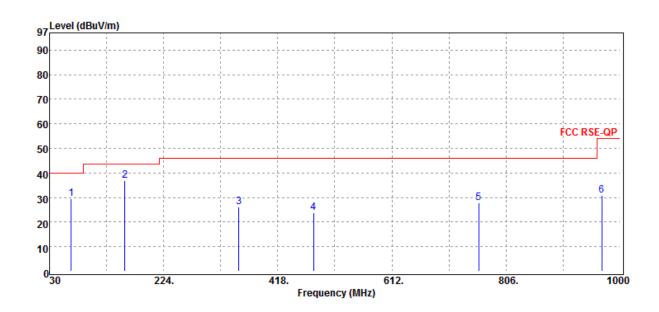
EUT Pol.

:2440 MHz :TX MID :E2 Plan

Test Date :2015-09-01 Temp./Humi. :23 deg_C /62 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
66.86	S	Peak	40.85	-11.21	29.64	40.00	-10.36
158.04	S	Peak	45.65	-8.89	36.76	43.50	-6.74
352.04	S	Peak	33.36	-7.13	26.23	46.00	-19.77
479.11	S	Peak	28.53	-4.63	23.90	46.00	-22.10
759.44	S	Peak	26.75	1.07	27.82	46.00	-18.18
968.96	S	Peak	27.25	3.64	30.89	54.00	-23.11

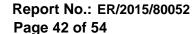
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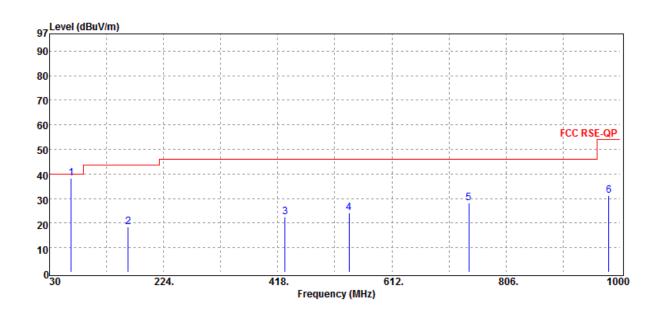
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:BT4.0 :2480 MHz :TX HIGH :E2 Plan

Test Date :2015-09-01 Temp./Humi. :23 deg_C /62 RH

Engineer

Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
66.86	S	QP	43.63	-11.21	32.42	40.00	-7.58
163.86	S	Peak	27.46	-8.92	18.54	43.50	-24.96
430.61	S	Peak	28.14	-5.78	22.36	46.00	-23.64
539.25	S	Peak	28.19	-4.00	24.19	46.00	-21.81
742.95	S	Peak	28.56	-0.24	28.32	46.00	-17.68
980.60	S	Peak	27.66	3.41	31.07	54.00	-22.93

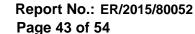
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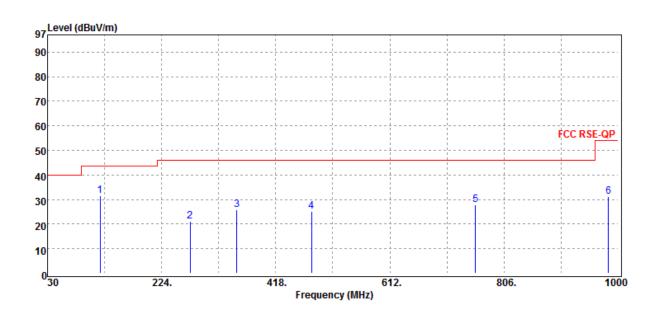




Operation Band :BT4.0 Fundamental Frequency :2480 MHz **Operation Mode** :TX HIGH EUT Pol. :E2 Plan

Test Date :2015-09-01 Temp./Humi. :23 deg_C /62 RH Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
119.24	S	Peak	42.92	-11.41	31.51	43.50	-11.99
272.50	S	Peak	30.04	-8.82	21.22	46.00	-24.78
352.04	S	Peak	32.83	-7.13	25.70	46.00	-20.30
479.11	S	Peak	29.81	-4.63	25.18	46.00	-20.82
757.50	S	Peak	26.97	0.97	27.94	46.00	-18.06
983.51	S	Peak	27.78	3.38	31.16	54.00	-22.84

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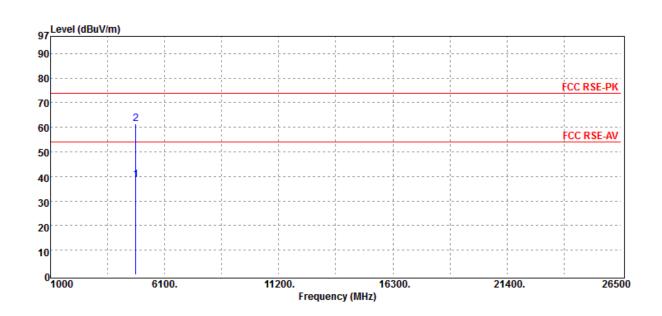
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Radiated Spurious Emission Measurement Result (BT4.0 mode) For Frequency above 1GHz

Operation Band :BT4.0 **Test Date** :2015-09-01 Fundamental Frequency :2402 MHz Temp./Humi. :23 deg_C /62 RH

Operation Mode :TX LOW Engineer :JJ

EUT Pol. :E2 Plan Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
4804.00	Н	Average	29.07	9.56	38.63	54.00	-15.37
4804.00	Н	Peak	51.74	9.56	61.30	74.00	-12.70

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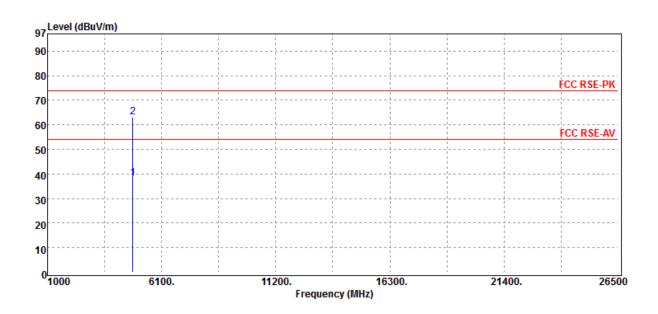
Page 45 of 54

Operation Band :BT4.0 Fundamental Frequency :2402 MHz **Operation Mode** :TX LOW EUT Pol. :E2 Plan

Test Date :2015-09-01 Temp./Humi. :23 deg_C /62 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4804.00	Н	Average	28.86	9.56	38.42	54.00	-15.58
4804.00	Н	Peak	53.64	9.56	63.20	74.00	-10.80

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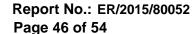
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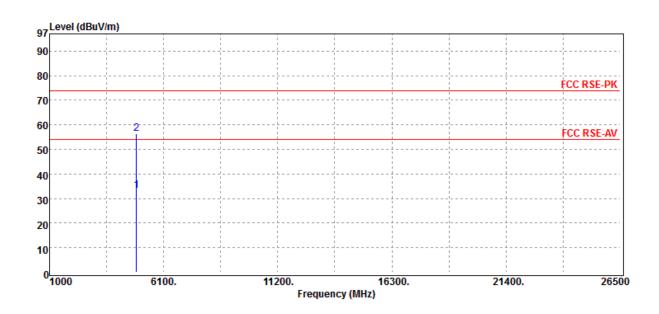


Operation Band Test Date :BT4.0 :2015-09-01

Fundamental Frequency Temp./Humi. :2440 MHz :23 deg_C /62 RH

Operation Mode :TX MID Engineer :JJ

EUT Pol. :E2 Plan Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4880.00	Н	Average	23.46	9.85	33.31	54.00	-20.69
4880.00	Н	Peak	46.51	9.85	56.36	74.00	-17.64

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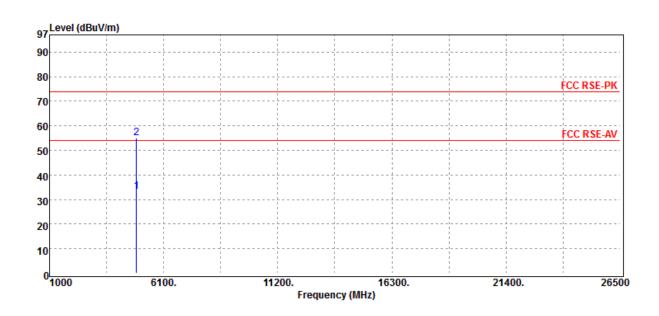
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:BT4.0 :2440 MHz :TX MID :E2 Plan

Test Date :2015-09-01 Temp./Humi. :23 deg_C /62 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4880.00	Н	Average	23.45	9.85	33.30	54.00	-20.70
4880.00	Н	Peak	45.28	9.85	55.13	74.00	-18.87

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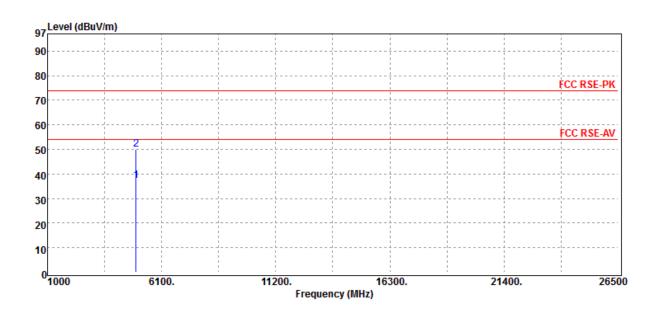
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:BT4.0 :2480 MHz :TX HIGH :E2 Plan

Test Date :2015-09-01 Temp./Humi. :23 deg_C /62 RH

Engineer

Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4960.00	Н	Average	27.51	9.86	37.37	54.00	-16.63
4960.00	Н	Peak	40.24	9.86	50.10	74.00	-23.90

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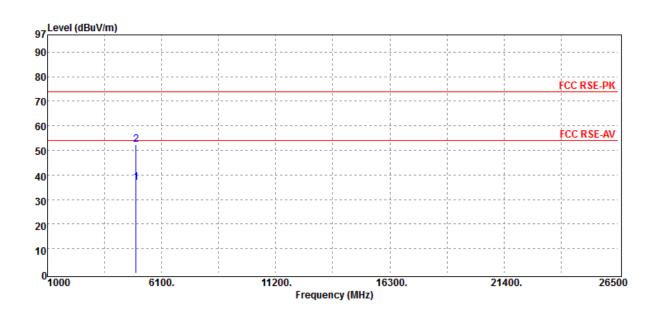
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Operation Band :BT4.0 Fundamental Frequency :2480 MHz **Operation Mode** :TX HIGH EUT Pol. :E2 Plan

Test Date :2015-09-01 Temp./Humi. :23 deg_C /62 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4960.00	Н	Average	27.09	9.86	36.95	54.00	-17.05
4960.00	Н	Peak	42.50	9.86	52.36	74.00	-21.64

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11 PEAK POWER SPECTRAL DENSITY

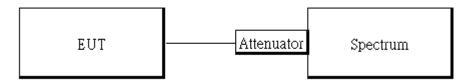
11.1 Standard Applicable:

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

11.2 Measurement Equipment Used:

Conducted Emission Test Site						
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.	
TYPE		NUMBER	NUMBER	CAL.		
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016	
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016	
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016	

11.3 Test Set-up:



11.4 Measurement Procedure:

- Set analyzer center frequency to DTS channel center frequency.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r03.
- 3. Set the span to 1.5 times the DTS channel bandwidth.
- 4. Set the RBW = 3 kHz.
- 5. Set the VBW = 10 kHz.
- 6. Detector = peak.
- 7. Sweep time = auto couple.
- 8. Trace mode = max hold.
- 9. Allow trace to fully stabilize.
- 10. Use the peak marker function to determine the maximum amplitude level.

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11.5 Measurement Result:

BT4.0 mode

Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2402	-5.54	8	PASS
2440	-6.41	8	PASS
2480	-7.13	8	PASS

Note: Refer to next page for plots.

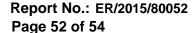
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BT4.0 mode

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)

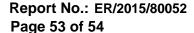


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Power Spectral Density Test Plot (CH-High)



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12 ANTENNA REQUIREMENT

12.1 Standard Applicable:

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

In case of point-to-point operation, the power shall be reduced by the one dB for every 3 dB that the directional gain of antenna exceeds 6dBi.

12.2 Antenna Connected Construction:

An embedded-in antenna design is used.

The antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power limit.

~ End of Report ~

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