

FCC TEST REPORT

FCC ID : M7UDWH400
Applicant : BRK Brands Inc
Address : 3901 Liberty Street Road, Aurora, Illinois, 60504, USA

Equipment Under Test (EUT) :

Product Name : Digital Wireless Camra
Model No. : DWH-400

Standards : FCC CFR47 Part 15 Section 15.247:2010

Date of Test : September 17, 2012 ~ September 25, 2012
Date of Issue : September 26, 2012

Test Engineer : Zero Zhou / Engineer



Reviewed By : Philo zhong / Manager



Test Result	: PASS
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Prepared By:

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❖ The sample detailed above has been tested to the requirements of Council Directives ANSI C63.4:2003. The test results have been reviewed against the Directives above and found to meet their essential requirements.

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2 Test Summary

Test Items	Test Requirement	Result
Radiated Spurious Emissions (18MHz to 25GHz)	15.205(a) 15.209 15.247(d)	PASS
Conduct Emission	15.207	PASS
20dB Bandwidth	15.247(a)(1)	PASS
Maximum Peak Output Power	15.247(b)(1)	PASS
Frequency Separation	15.247(a)(1)	PASS
Number of Hopping Frequency	15.247(a)(1)(iii)	PASS
Dwell time	15.247(a)(1)(iii)	PASS
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS

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WALTEK SERVICES

Reference No.: WT12096304-D-S-F

3 Contents

	Page
1 COVER PAGE.....	1
2 TEST SUMMARY.....	2
3 CONTENTS	3
4 GENERAL INFORMATION	5
4.1 CLIENT INFORMATION	5
4.2 GENERAL DESCRIPTION OF E.U.T.....	5
4.3 DETAILS OF E.U.T.....	5
4.4 CHANNEL LIST	5
4.5 DESCRIPTION OF SUPPORT UNITS.....	6
4.6 STANDARDS APPLICABLE FOR TESTING.....	6
4.7 TEST FACILITY	6
4.8 TEST LOCATION.....	6
5 EQUIPMENT USED DURING TEST.....	7
6 CONDUCTED EMISSION	9
6.1 E.U.T. OPERATION	9
6.2 EUT SETUP	10
6.3 CONDUCTED EMISSION TEST RESULT	10
6.4 PHOTOGRAPH – CONDUCTED EMISSION TEST SETUP.....	13
7 RADIATED SPURIOUS EMISSIONS	14
7.1 EUT OPERATION :	14
7.2 MEASUREMENT UNCERTAINTY.....	14
7.3 TEST SETUP.....	15
7.4 SPECTRUM ANALYZER SETUP	17
7.5 TEST PROCEDURE.....	18
7.6 CORRECTED AMPLITUDE & MARGIN CALCULATION	18
7.7 SUMMARY OF TEST RESULTS.....	19
7.8 PHOTOGRAPH – RADIATION SPURIOUS EMISSION TEST SETUP.....	29
8 BAND EDGE MEASUREMENT.....	31
8.1 TEST RESULT:.....	32
9 20 DB BANDWIDTH MEASUREMENT	36
9.1 TEST PROCEDURE:.....	36
9.2 TEST RESULT:.....	36
10 MAXIMUM PEAK OUTPUT POWER	38
10.1 TEST PROCEDURE:.....	38
10.2 TEST RESULT:.....	38
11 HOPPING CHANNEL SEPARATION.....	39
11.1 TEST PROCEDURE:.....	39
11.2 TEST RESULT:.....	39
12 NUMBER OF HOPPING FREQUENCY.....	42
12.1 TEST PROCEDURE:.....	42
12.2 TEST RESULT:.....	42
13 DWELL TIME.....	43
13.1 TEST PROCEDURE:.....	43
13.2 TEST RESULT:.....	43

The results shown in this test report refer only to the sample(s) tested , This Test report cannot be reproduced, except in full, without prior written permission of the Company.

BRK Brands Inc	FCC ID: M7UDWH400
14 ANTENNA REQUIREMENT.....	46
15 RF EXPOSURE.....	47
15.1 REQUIMENTS:.....	47
15.2 THE PROCEDURES / LIMIT	47
15.3 MPE CALCULATION METHOD	48
16 PHOTOGRAPHS - CONSTRUCTIONAL DETAILS.....	49
16.1 PRODUCT VIEW	49
16.2 EUT – APPEARENCE VIEW.....	50
16.3 EUT – OPEN VIEW	53
16.4 EUT – PCB VIEW	54
16.5 RF MODULE - VIEW	57
17 FCC LABEL.....	59

The results shown in this test report refer only to the sample(s) tested , This Test report cannot be reproduced, except in full, without prior written permission of the Company.

WALTEK SERVICES

Reference No.: WT12096304-D-S-F

4 General Information

4.1 Client Information

Applicant : BRK Brands Inc
Address of Applicant : 3901 Liberty Street Road, Aurora, Illinois, 60504, USA

Manufacturer : BRK Brands Inc
Address of Manufacturer : 3901 Liberty Street Road, Aurora, Illinois, 60504, USA

4.2 General Description of E.U.T.

Product Name : Digital Wireless Camra
Model No. : DWH-400

4.3 Details of E.U.T.

Technical Data : Three kind of adapter could be used and the test result carried out by using three adapter were passed, and the data show in the report is the adapter 1's.

Adapter 1 : KSAS0060500100VUD (Ktec)
 Input: 100 – 240VAC, 50/60Hz, 0.18A
 Output: 5.0VDC, 1.0A

Adapter 2 : MU05B7050100-A1 (LEI)
 Input: 100 – 240VAC, 50/60Hz, 0.3A MAX
 Output: 5.0VDC, 1.0A

Adapter 3 : CS6D050100FUF (Csec)
 Input: 100 – 240VAC, 50/60Hz, 0.2A
 Output: 5.0VDC, 1.0A

Operation Frequency : 2414.25MHz ~ 2461.50MHz

Antenna Gain : 3 dBi

4.4 Channel List

Channel No.	Frequency(MHz)	Channel No.	Frequency(MHz)	Channel No.	Frequency(MHz)
00	2414.25	05	2431.15	10	2448.05
01	2417.63	06	2434.53	11	2451.43
02	2421.01	07	2437.88	12	2454.81
03	2424.39	08	2441.29	13	2458.19
04	2427.77	09	2444.67	14	2461.50

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FCC ID: M7UDWH400

4.5 Description of Support Units

The EUT has been tested as an independent unit.

4.6 Standards Applicable for Testing

The customer requested FCC tests for a Digital Wireless Camra. The standards used were FCC CFR47 Part 15 Section 15.203, Section 15.207, Section 15.209 and Section 15.247.

4.7 Test Facility

The test facility has a test site registered with the following organizations:

- IC – Registration No.: IC7760A**

Waltek Services(Shenzhen) Co., Ltd. has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration 7760A, July 10, 2012.

- FCC – Registration No.: 880581**

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 880581, May 26, 2011.

4.8 Test Location

All the tests were performed at:

Waltek Services(Shenzhen) Co., Ltd. at 1/F, Fukangtai Building, West Baima Rd.,Songgang Street, Baoan District, Shenzhen, China

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FCC ID: M7UDWH400

5 Equipment Used during Test

Equipment Name	Manufacturer Model	Equipment No	Internal No	Specification	Cal. Date	Due Date	Uncertainty
EMC Analyzer	Agilent/ E7405A	MY45114943	W2008001	9k-26.5GHz	Aug. 2, 2012	Aug. 1, 2013	±1dB
Trilog Broadband Antenne	SCHWARZB ECK MESS- ELEKTROM/ VULB9163	336	W2008002	30-3000 MHz	Aug. 2, 2012	Aug. 1, 2013	±1dB
Broad-band Horn Antenna	SCHWARZB ECK MESS- ELEKTROM/ BBHA 9120D(1201)	667	W2008003	1-18GHz	Aug. 2, 2012	Aug. 1, 2013	f < 10 GHz : ±1dB 10GHz < f < 18 GHz : ±1.5dB
Broadband Preamplifier	SCHWARZB ECK MESS- ELEKTROM/ BBV 9718	9718-148	W2008004	0.5-18GHz	Aug. 2, 2012	Aug. 1, 2013	±1.2dB
Broad-band Horn Antenna	SCHWARZB ECK MESS- ELEKTROM/ BBHA 9170	399	W2008005	15-26.5GHz	Aug. 2, 2012	Aug. 1, 2013	±1.5dB
Broadband Preamplifier	SCHWARZB ECK MESS- ELEKTROM/ BBV 9719	9719-254	W2008006	18-26.5GHz	Aug. 2, 2012	Aug. 1, 2013	±1.2dB
10m Coaxial Cable with N- male Connectors	SCHWARZB ECK MESS- ELEKTROM/ AK 9515 H	-	-	-	Aug. 2, 2012	Aug. 1, 2013	-
10m 50 Ohm Coaxial Cable	SCHWARZB ECK MESS- ELEKTROM/ AK 9513	-	-	-	Aug. 2, 2012	Aug. 1, 2013	-
Positioning Controller	C&C LAB/ CC-C-IF	-	-	-	Aug. 2, 2012	Aug. 1, 2013	-

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WALTEK SERVICES

Reference No.: WT12096304-D-S-F

BRK Brands Inc

FCC ID: M7UDWH400

Equipment Name	Manufacturer Model	Equipment No	Internal No	Specification	Cal. Date	Due Date	Uncertainty
Color Monitor	SUNSPO/ SP-14C	-	-	-	Aug. 2, 2012	Aug. 1, 2013	-
Test Receiver	ROHDE&SC HWARZ/ ESPI	101155	W2005001	9k-3GHz	Aug. 2, 2012	Aug. 1, 2013	$\pm 1\text{dB}$
Two-Line V-Network	ROHDE&SC HWARZ/ ENV216	100115	W2005002	50 Ω /50 μH	Aug. 2, 2012	Aug. 1, 2013	$\pm 10\%$
RF Generator	TESEQ GmbH/ NSG4070	25781	W2008008	Fraq-range : 9K-1GHz RF voltage : -60 dBm-+10dBm	Aug. 2, 2012	Aug. 1, 2013	Power_freq distinguish 0.1 Hz RFeleticity distinguish 0.1B
Active Loop Antenna	Beijing Dazhi / ZN30900A	-	-	-	Aug. 2, 2012	Aug. 1, 2013	$\pm 1\text{dB}$
AC Power Supply	TONGYUN/ DTDGC-4	-	-	-	Aug. 2, 2012	Aug. 1, 2013	-

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WALTEK SERVICES

Reference No.: WT12096304-D-S-F

6 Conducted Emission

Test Requirement:	FCC CFR 47 Part 15 Section 15.207
Test Method:	ANSI C63.4:2003
Test Result:	PASS
Frequency Range:	150kHz to 30MHz
Class:	Class B
Limit:	66-56 dB μ V between 0.15MHz & 0.5MHz 56 dB μ V between 0.5MHz & 5MHz 60 dB μ V between 5MHz & 30MHz
Detector:	Peak for pre-scan (9kHz Resolution Bandwidth) Quasi-Peak & Average if maximised peak within 6dB of Average Limit

6.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C

Humidity: 51 % RH

Atmospheric Pressure: 1012 mbar

EUT Operation:

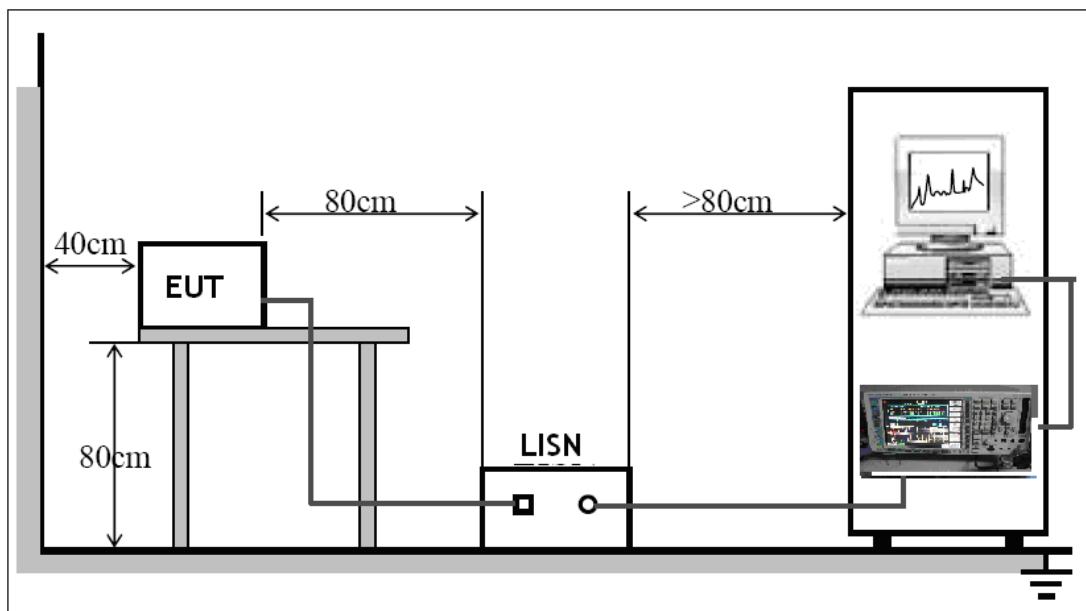
The pre-test was performed in normal link mode and continuously transmit mode, the worse mode is normal link mode, so the data show is that mode's only.

The EUT was tested according to ANSI C63.4:2003. The frequency spectrum from 150kHz to 30MHz was investigated.

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

6.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.4:2003, The specification used in this report was the FCC Part15.207 limits.



The EUT was placed on the test table in shielding room

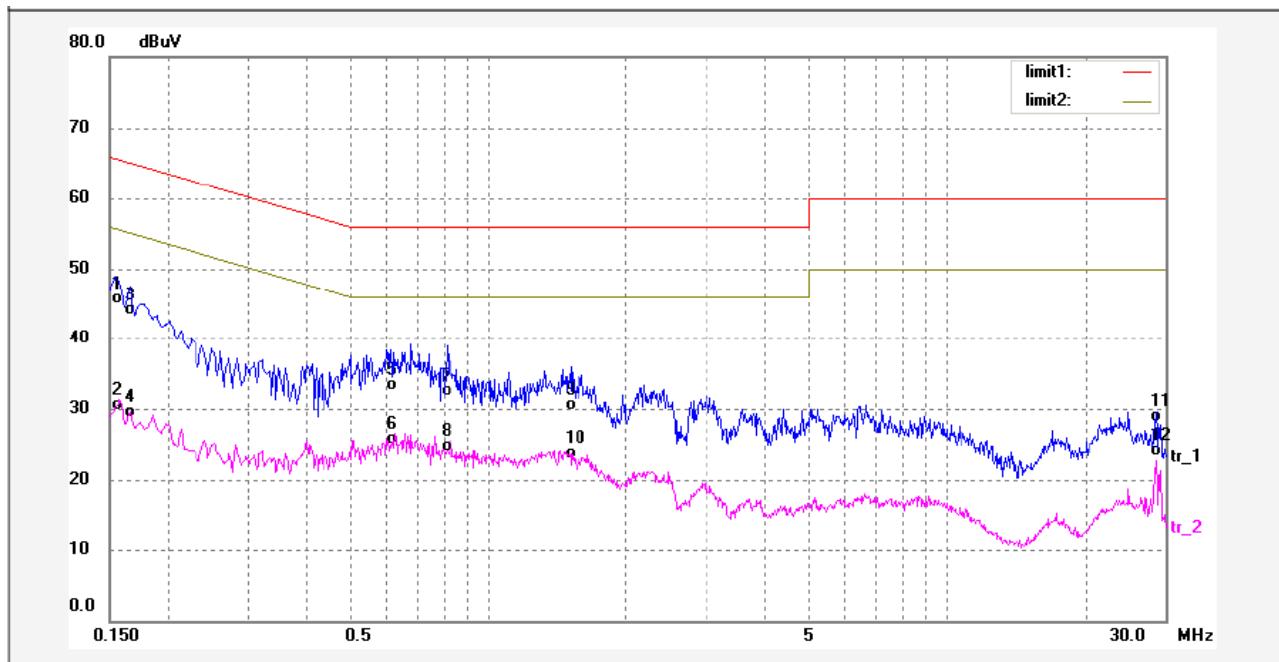
6.3 Conducted Emission Test Result

An initial pre-scan was performed on the live and neutral lines.

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FCC ID: M7UDWH400

Live line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1539	34.62	10.27	44.89	65.78	-20.89	QP	
2	0.1539	19.34	10.27	29.61	55.78	-26.17	AVG	
3	0.1660	33.03	10.27	43.30	65.15	-21.85	QP	
4	0.1660	18.41	10.27	28.68	55.15	-26.47	AVG	
5	0.6140	22.06	10.42	32.48	56.00	-23.52	QP	
6	0.6140	14.40	10.42	24.82	46.00	-21.18	AVG	
7	0.8139	21.32	10.45	31.77	56.00	-24.23	QP	
8	0.8139	13.47	10.45	23.92	46.00	-22.08	AVG	
9	1.5180	19.16	10.58	29.74	56.00	-26.26	QP	
10	1.5180	12.41	10.58	22.99	46.00	-23.01	AVG	
11	28.6860	16.78	11.28	28.06	60.00	-31.94	QP	
12	28.6860	11.96	11.28	23.24	50.00	-26.76	AVG	

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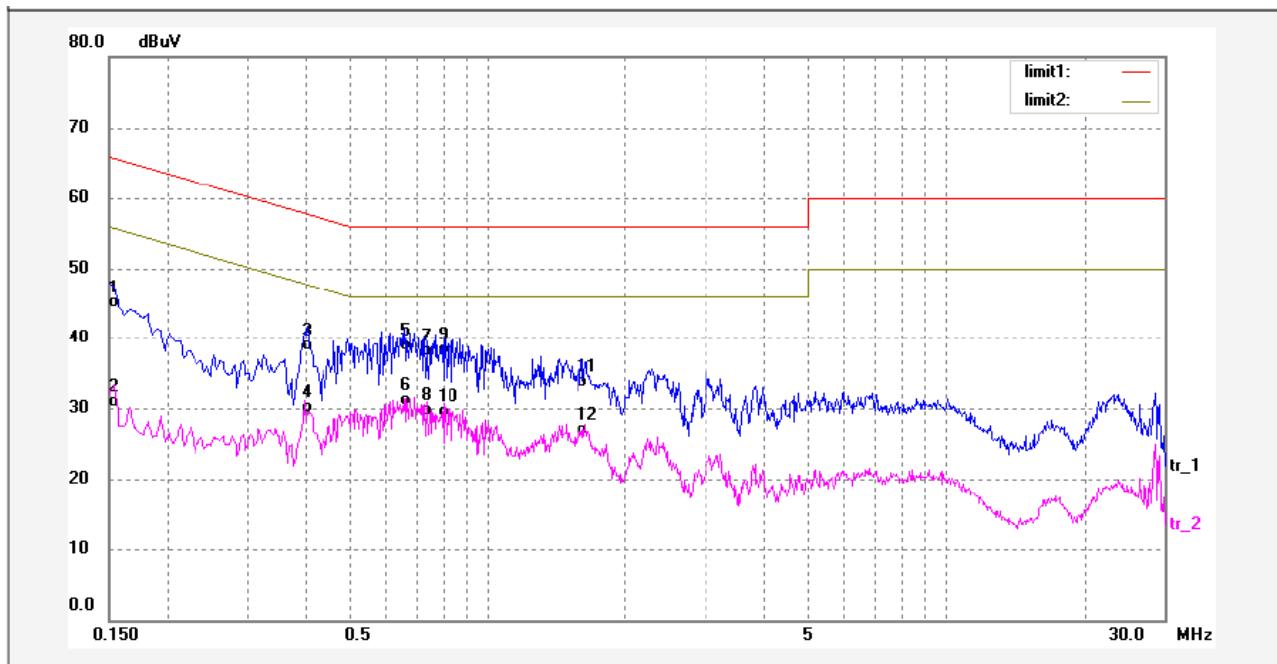
WALTEK SERVICES

Reference No.: WT12096304-D-S-F

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FCC ID: M7UDWH400

Neutral line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1500	33.97	10.27	44.24	65.99	-21.75	QP	
2	0.1500	19.74	10.27	30.01	55.99	-25.98	AVG	
3	0.4060	27.80	10.36	38.16	57.73	-19.57	QP	
4	0.4060	19.03	10.36	29.39	47.73	-18.34	AVG	
5	0.6580	27.71	10.43	38.14	56.00	-17.86	QP	
6	0.6580	19.79	10.43	30.22	46.00	-15.78	AVG	
7	0.7300	26.92	10.44	37.36	56.00	-18.64	QP	
8	0.7300	18.55	10.44	28.99	46.00	-17.01	AVG	
9	0.8100	26.96	10.45	37.41	56.00	-18.59	QP	
10	0.8100	18.18	10.45	28.63	46.00	-17.37	AVG	
11	1.6100	22.34	10.60	32.94	56.00	-23.06	QP	
12	1.6100	15.42	10.60	26.02	46.00	-19.98	AVG	

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Reference No.: WT12096304-D-S-F

6.4 Photograph – Conducted Emission Test Setup



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WALTEK SERVICES

Reference No.: WT12096304-D-S-F

7 Radiated Spurious Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247

Test Method: Based on DA 00-705

Test Result: PASS

Frequency Range: 18MHz to 25GHz

Measurement Distance: 3m

Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	$20\log^{(2400/F(kHz))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	$20\log^{(24000/F(kHz))} + 40$
1.705 ~ 30	30	30	100 * 30	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

Test mode: The EUT was tested in continuously Transmit mode.

7.1 EUT Operation :

Operating Environment:

Temperature: 25.5 °C

Humidity: 51 % RH

Atmospheric Pressure: 1012 mbar

7.2 Measurement Uncertainty

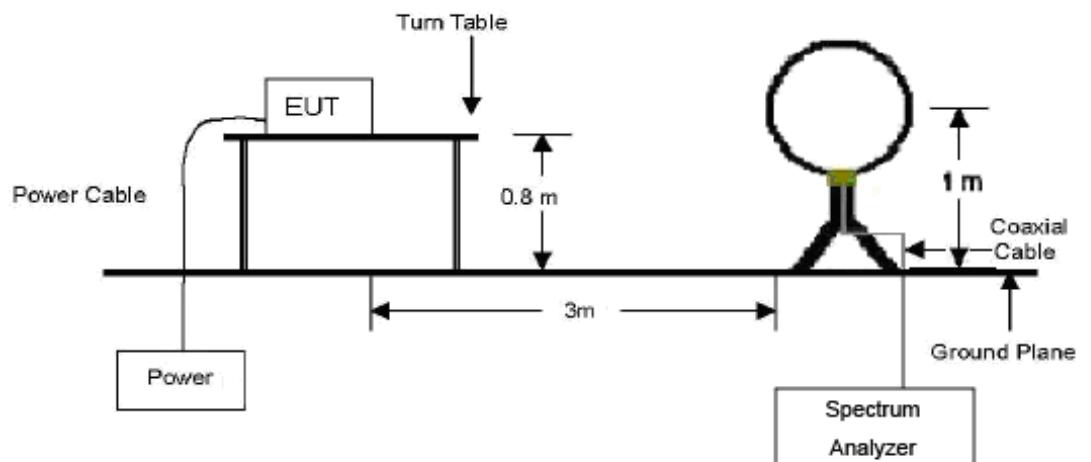
All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Waltek EMC Lab is ± 5.03 dB.

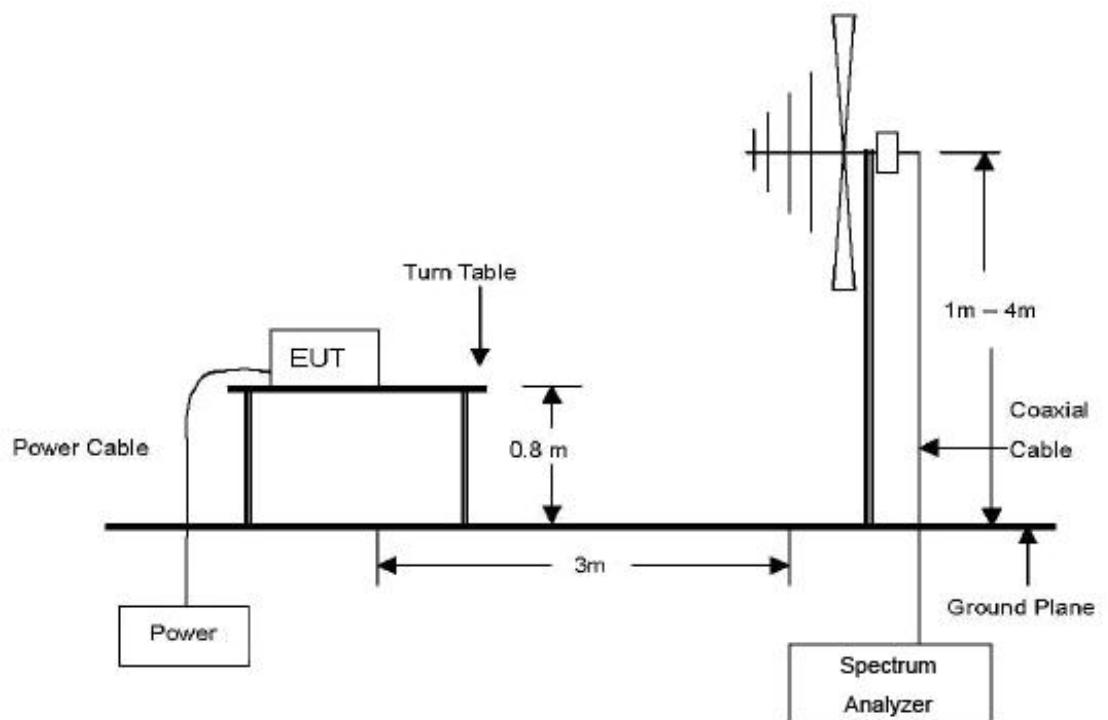
7.3 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4:2003.

The diagram below shows the test setup that is utilized to make the measurements for emission from 18MHz to 30 MHz Emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 30 MHz to 1 GHz Emissions.



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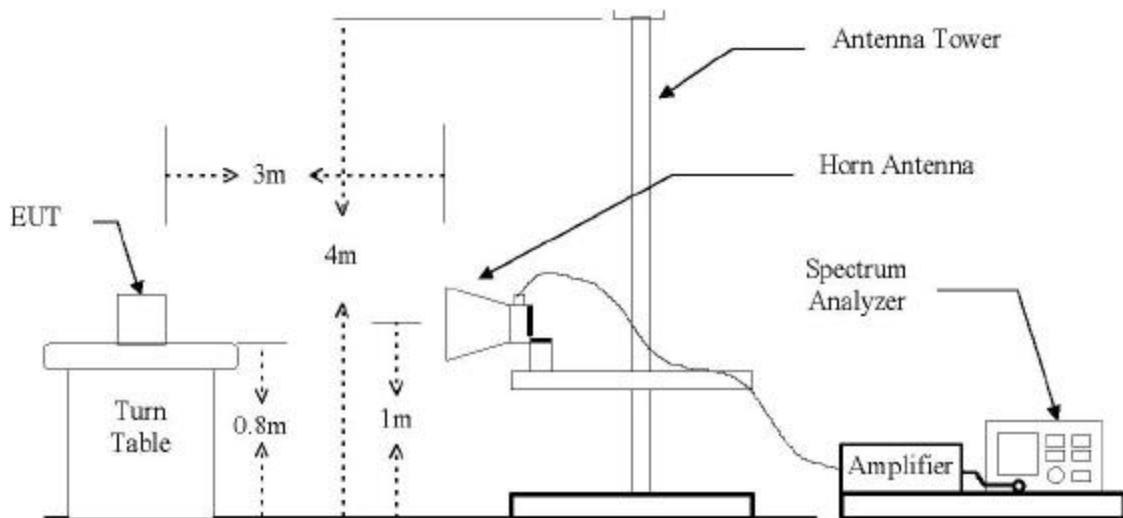
WALTEK SERVICES

Reference No.: WT12096304-D-S-F

BRK Brands Inc

FCC ID: M7UDWH400

The diagram below shows the test setup that is utilized to make the measurements for emission from 1 GHz to 25 GHz Emissions.



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Reference No.: WT12096304-D-S-F

7.4 Spectrum Analyzer Setup

According to FCC Part15 Rules, the system was tested 18MHz to 25000MHz.

18MHz ~ 30MHz

Start Frequency	9kHz
Stop Frequency.....	30MHz
Sweep Speed.....	Auto
IF Bandwidth.....	10KHz
Video Bandwidth.....	10KHz
Resolution Bandwidth.....	10KHz

30MHz ~ 1GHz

Start Frequency	30 MHz
Stop Frequency.....	1000MHz
Sweep Speed.....	Auto
IF Bandwidth.....	120 KHz
Video Bandwidth.....	100KHz
Quasi-Peak Adapter Bandwidth	120 KHz
Quasi-Peak Adapter Mode	Normal
Resolution Bandwidth.....	100KHz

Above 1GHz

Start Frequency	1000 MHz
Stop Frequency.....	25000MHz
Sweep Speed.....	Auto
IF Bandwidth.....	120 KHz
Video Bandwidth.....	3MHz
Quasi-Peak Adapter Bandwidth	120 KHz
Quasi-Peak Adapter Mode	Normal
Resolution Bandwidth.....	1MHz

7.5 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X(normal uses) axis positioning. And all the modes was tested in the report. Only the worst case is shown in the report.

7.6 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Limit}$$

7.7 Summary of Test Results

According to the data in this section, the EUT complied with the FCC CFR47 Part 15 Section 15.209 & 15.247 standards.

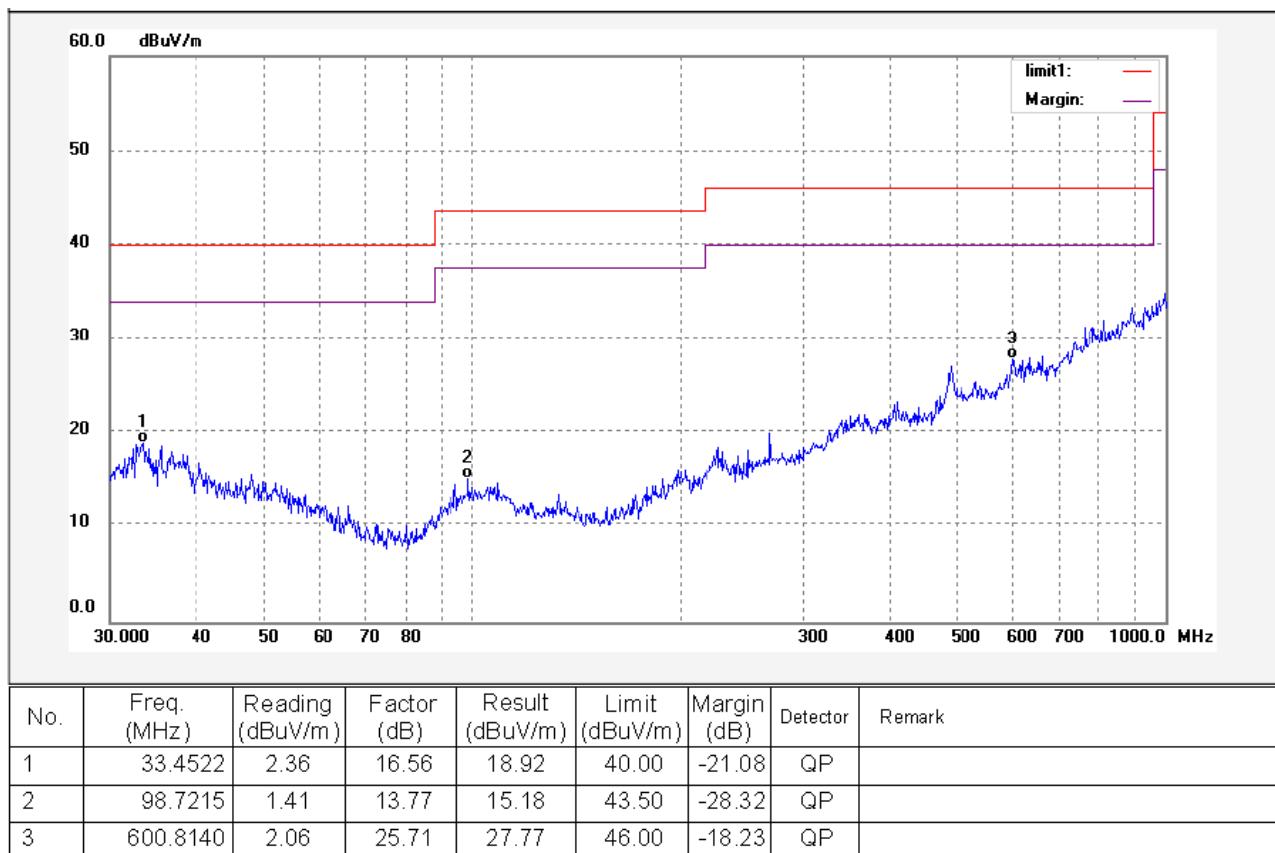
Test mode: continuously receive mode

Remark: the EUT was pretested at the high, middle and low channel, and the worse case was the low Channel, so the data show was the low channel only.

Because the emissions below 30MHz are more than 20dB below the limit, the data is not show in the report.

Test Frequency : 30MHz ~ 1000MHz

Antenna polarization: Vertical

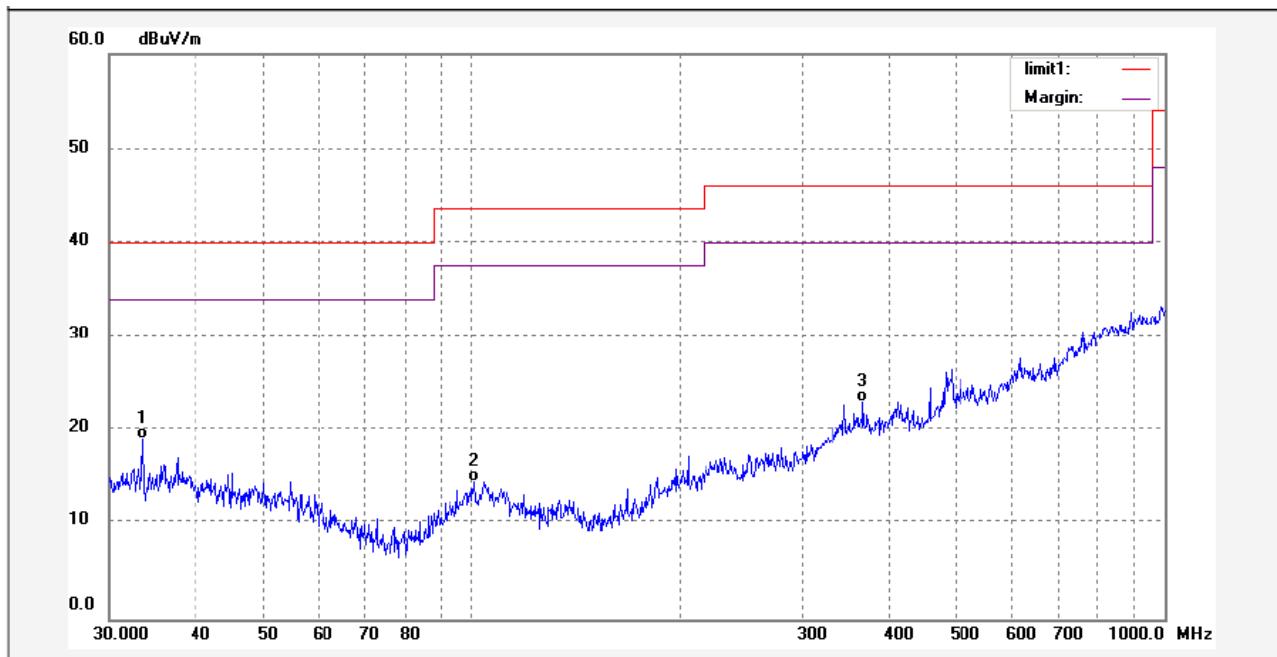


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BRK Brands Inc

FCC ID: M7UDWH400

Antenna polarization: Horizontal



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	33.4520	2.54	16.56	19.10	40.00	-20.90	QP	
2	100.8247	0.56	14.02	14.58	43.50	-28.92	QP	
3	367.3752	2.45	20.60	23.05	46.00	-22.95	QP	

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Reference No.: WT12096304-D-S-F

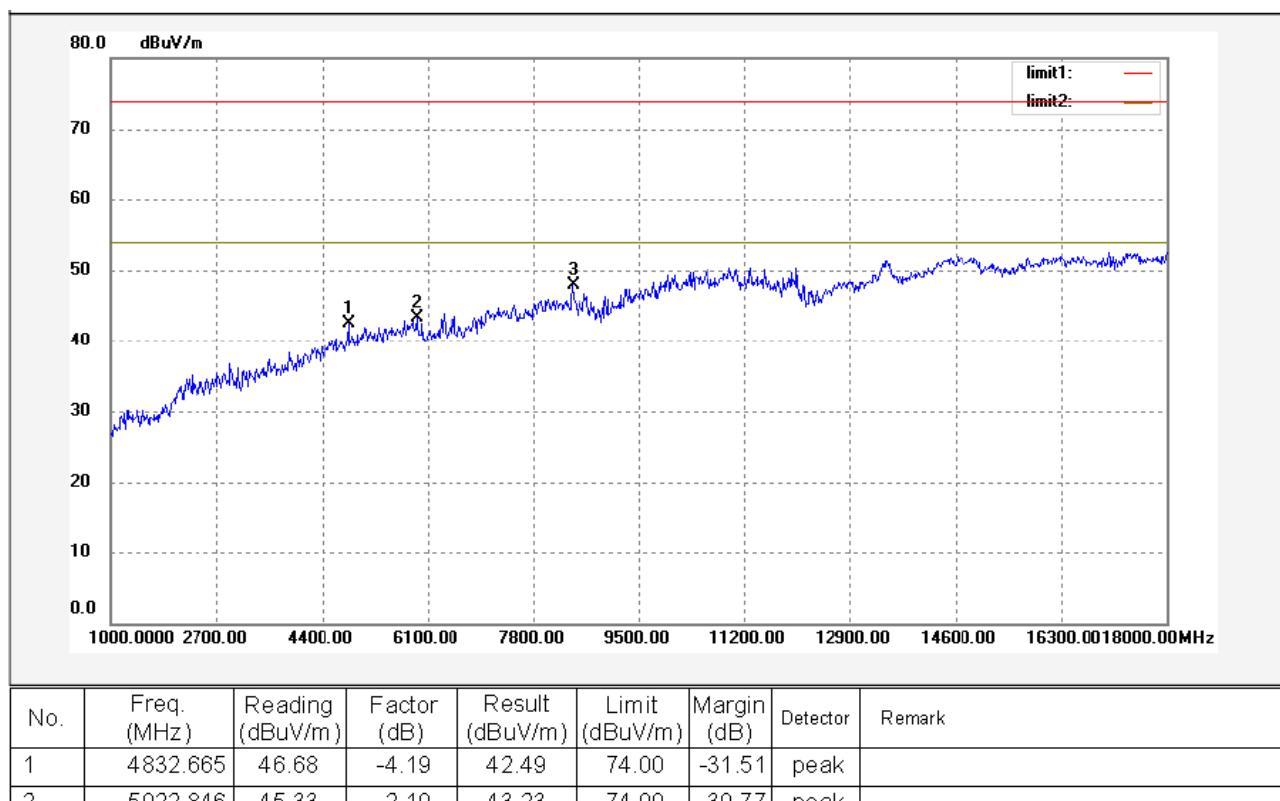
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FCC ID: M7UDWH400

Test Frequency: Above 1GHz radiation test data:

Remark: No any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

Antenna polarization: Vertical



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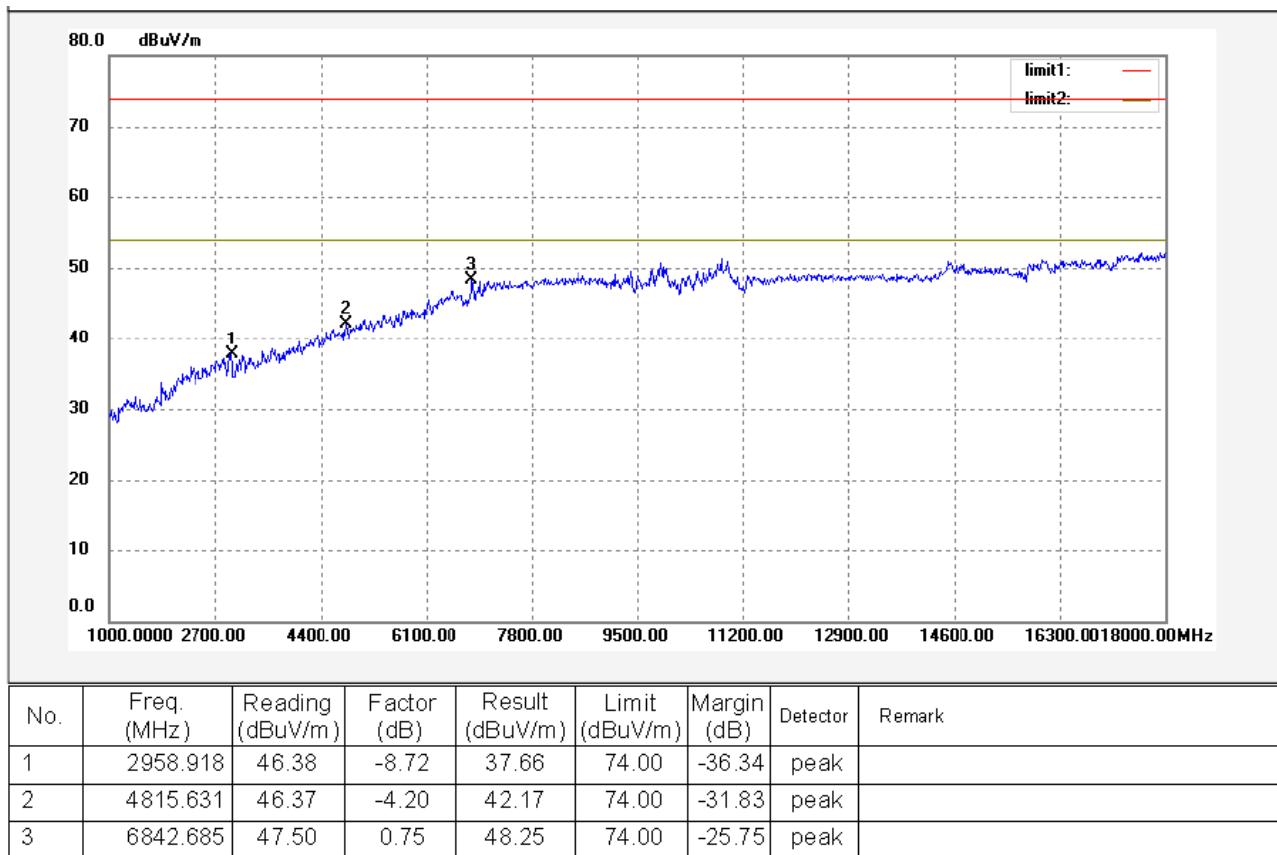
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Reference No.: WT12096304-D-S-F

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FCC ID: M7UDWH400

Antenna polarization: Horizontal



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WALTEK SERVICES

Reference No.: WT12096304-D-S-F

BRK Brands Inc

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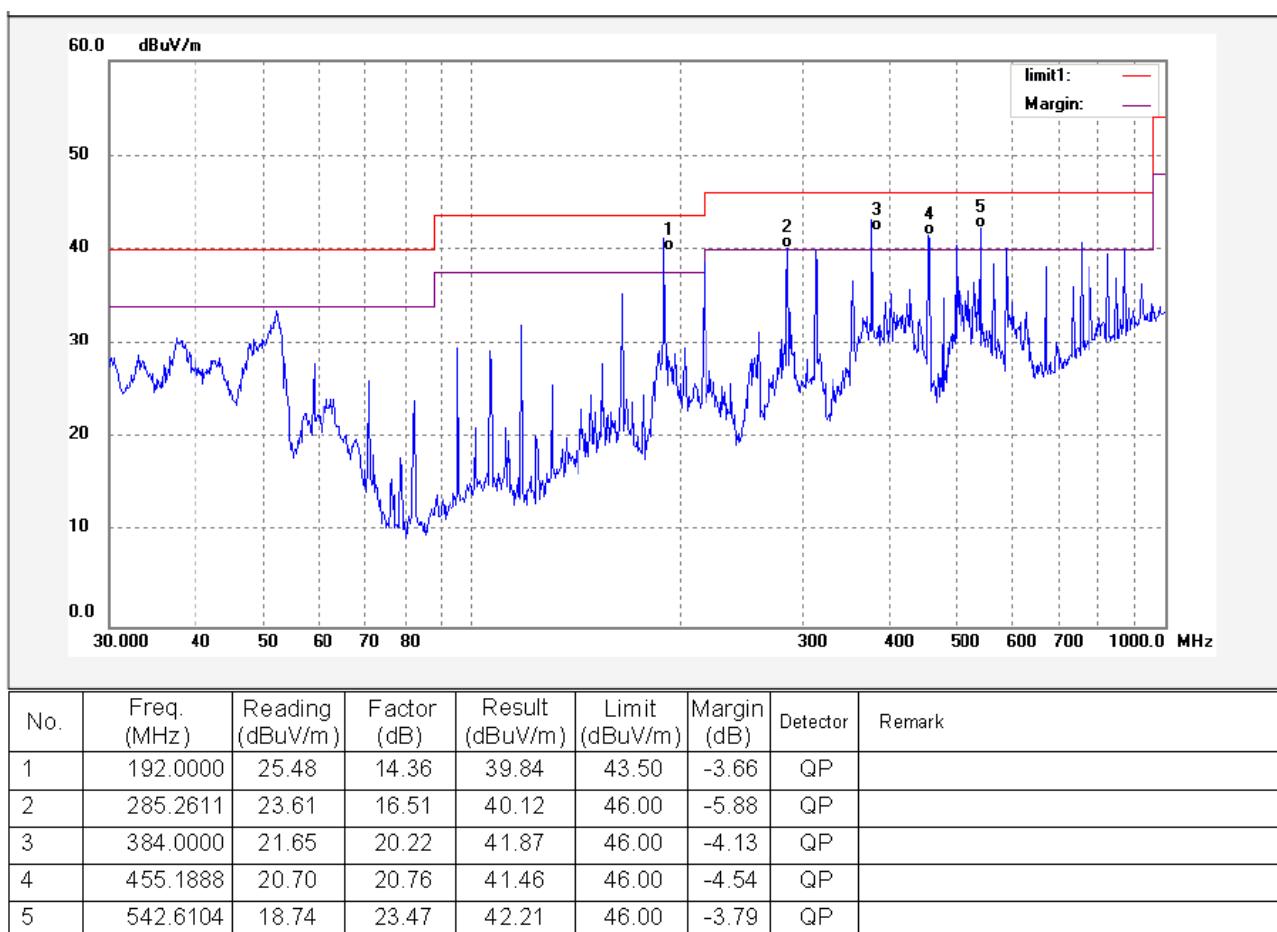
Test mode: continuously transmit mode

Remark: the EUT was pretested at the high, middle and low channel, and the worse case was the low Channel, so the data show was the low channel only.

Because the emissions below 30MHz are more than 20dB below the limit, the data is not show in the report.

Test Frequency : 30MHz ~ 1000MHz

Antenna polarization: Vertical



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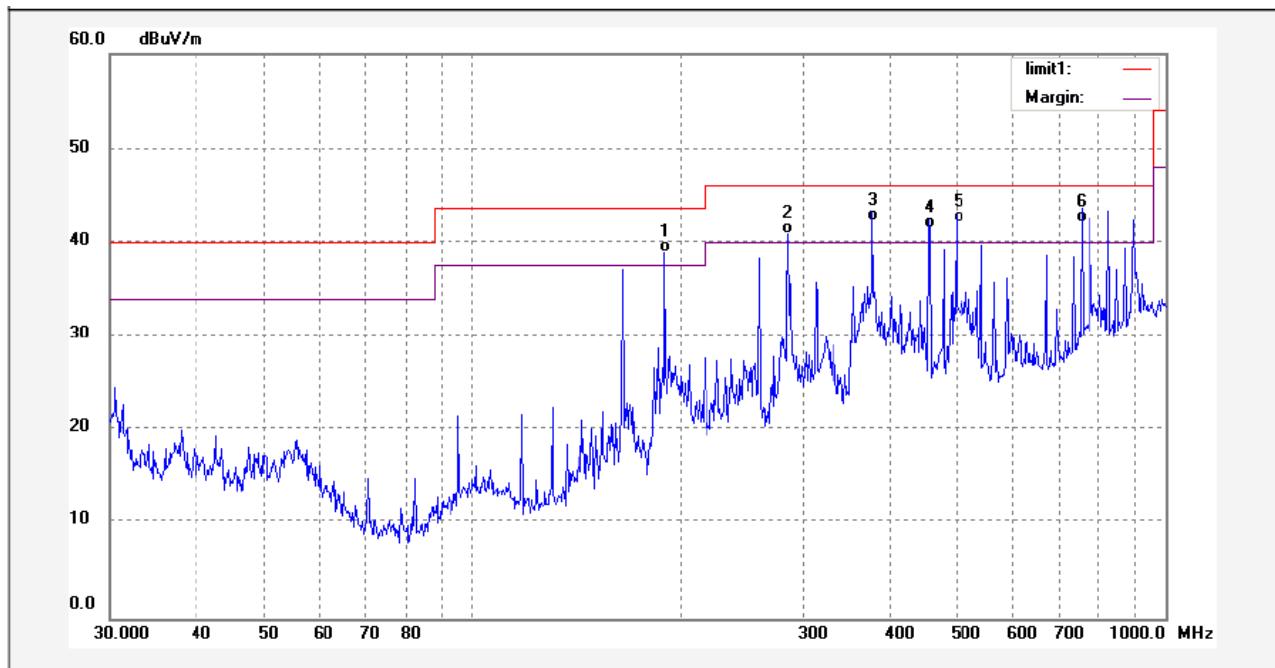
WALTEK SERVICES

Reference No.: WT12096304-D-S-F

BRK Brands Inc

FCC ID: M7UDWH400

Antenna polarization: Horizontal



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	189.1076	24.84	14.02	38.86	43.50	-4.64	QP	
2	285.2611	24.37	16.51	40.88	46.00	-5.12	QP	
3	377.8481	22.14	20.12	42.26	46.00	-3.74	QP	
4	455.1888	20.65	20.76	41.41	46.00	-4.59	QP	
5	504.0000	18.71	23.34	42.05	46.00	-3.95	QP	
6	757.6200	14.04	28.03	42.07	46.00	-3.93	QP	

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WALTEK SERVICES

Reference No.: WT12096304-D-S-F

BRK Brands Inc

FCC ID: M7UDWH400

Test Frequency: 1GHz ~ 25GHz

And the below is the Fundamental and Harmonic

Frequency (MHz)	Detector	Antenna Polarization	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Turntable Angle (°)
Low frequency							
2414.25	AV	Vertical	103.62		(Fund.)	1.5	25
4828.50	AV	Vertical	46.65	54.00	-7.35	1.7	85
7242.75	AV	Vertical	48.45	54.00	-5.55	1.8	160
9657.00	AV	Vertical	46.21	54.00	-7.79	2.3	125
12071.25	AV	Vertical	40.55	54.00	-13.45	1.9	180
14485.50	AV	Vertical	41.58	54.00	-12.42	1.9	150
16899.75	AV	Vertical	40.15	54.00	-13.85	2.0	140
19314.00	AV	Vertical	39.12	54.00	-14.88	1.8	100
21728.25	AV	Vertical	34.21	54.00	-19.79	1.9	30
24142.50	AV	Vertical	33.15	54.00	-20.85	1.7	105
2414.25	AV	Horizontal	97.42		(Fund.)	1.5	35
4828.50	AV	Horizontal	45.97	54.00	-8.03	1.7	160
7242.75	AV	Horizontal	43.52	54.00	-10.48	1.8	100
9657.00	AV	Horizontal	40.96	54.00	-13.04	1.7	130
12071.25	AV	Horizontal	42.18	54.00	-11.82	1.8	105
14485.50	AV	Horizontal	39.08	54.00	-14.92	1.7	150
16899.75	AV	Horizontal	45.02	54.00	-8.98	1.8	140
19314.00	AV	Horizontal	34.21	54.00	-19.79	2.3	140
21728.25	AV	Horizontal	36.25	54.00	-17.75	1.5	130
24142.50	AV	Horizontal	37.46	54.00	-16.54	2.0	55
2414.25	PK	Vertical	115.78		(Fund.)	1.5	30
4828.50	PK	Vertical	59.62	74.00	-14.38	2.3	100
7242.75	PK	Vertical	60.44	74.00	-13.56	1.9	130
9657.00	PK	Vertical	57.62	74.00	-16.38	1.9	210
12071.25	PK	Vertical	53.69	74.00	-20.31	1.5	110
14485.50	PK	Vertical	54.48	74.00	-19.52	1.7	90
16899.75	PK	Vertical	50.26	74.00	-23.74	1.7	175
19314.00	PK	Vertical	49.95	74.00	-24.05	1.7	160
21728.25	PK	Vertical	47.62	74.00	-26.38	2.0	90
24142.50	PK	Vertical	50.23	74.00	-23.77	1.9	150
2414.25	PK	Horizontal	106.98		(Fund.)	2.1	90
4828.50	PK	Horizontal	44.25	74.00	-29.75	2.7	130
7242.75	PK	Horizontal	42.19	74.00	-31.81	2.1	100
9657.00	PK	Horizontal	44.25	74.00	-29.75	1.7	30
12071.25	PK	Horizontal	42.52	74.00	-31.48	1.5	180

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Reference No.: WT12096304-D-S-F

BRK Brands Inc

FCC ID: M7UDWH400

14485.50	PK	Horizontal	39.24	74.00	-34.76	2.0	40
16899.75	PK	Horizontal	43.26	74.00	-30.74	2.1	220
19314.00	PK	Horizontal	34.26	74.00	-39.74	2.0	100
21728.25	PK	Horizontal	36.45	74.00	-37.55	1.5	150
24142.50	PK	Horizontal	38.26	74.00	-35.74	1.7	105

Middle frequency

2437.88	AV	Vertical	104.24		(Fund.)	1.7	55
4875.76	AV	Vertical	48.26	54.00	-5.74	1.6	130
7313.64	AV	Vertical	46.31	54.00	-7.69	1.6	140
9751.52	AV	Vertical	43.22	54.00	-10.78	1.6	85
12189.40	AV	Vertical	46.52	54.00	-7.48	1.4	45
14627.28	AV	Vertical	39.19	54.00	-14.81	1.6	180
17065.16	AV	Vertical	42.33	54.00	-11.67	1.7	40
19503.04	AV	Vertical	39.34	54.00	-14.66	1.9	70
21940.92	AV	Vertical	41.25	54.00	-12.75	1.8	240
24378.80	AV	Vertical	34.15	54.00	-19.85	1.6	130
2437.88	AV	Horizontal	98.25		(Fund.)	1.7	175
4875.76	AV	Horizontal	44.26	54.00	-9.74	1.4	140
7313.64	AV	Horizontal	45.86	54.00	-8.14	1.7	315
9751.52	AV	Horizontal	40.13	54.00	-13.87	1.6	150
12189.40	AV	Horizontal	42.11	54.00	-11.89	1.4	190
14627.28	AV	Horizontal	40.12	54.00	-13.88	1.8	250
17065.16	AV	Horizontal	35.15	54.00	-18.85	1.9	195
19503.04	AV	Horizontal	38.16	54.00	-15.84	1.8	130
21940.92	AV	Horizontal	39.25	54.00	-14.75	1.4	200
24378.80	AV	Horizontal	34.12	54.00	-19.88	2.1	170
2437.88	PK	Vertical	114.25		(Fund.)	1.6	45
4875.76	PK	Vertical	62.15	74.00	-11.85	1.5	120
7313.64	PK	Vertical	60.12	74.00	-13.88	1.6	140
9751.52	PK	Vertical	58.21	74.00	-15.79	1.6	190
12189.40	PK	Vertical	59.48	74.00	-14.52	1.9	245
14627.28	PK	Vertical	52.15	74.00	-21.85	1.6	40
17065.16	PK	Vertical	55.15	74.00	-18.85	1.6	50
19503.04	PK	Vertical	50.05	74.00	-23.95	1.9	170
21940.92	PK	Vertical	54.52	74.00	-19.48	1.7	180
24378.80	PK	Vertical	47.15	74.00	-26.85	1.6	165
2437.88	PK	Horizontal	108.22		(Fund.)	1.7	40
4875.76	PK	Horizontal	58.46	74.00	-15.54	2.2	115
7313.64	PK	Horizontal	58.46	74.00	-15.54	1.8	150
9751.52	PK	Horizontal	53.15	74.00	-20.85	1.9	100
12189.40	PK	Horizontal	55.95	74.00	-18.05	1.6	200
14627.28	PK	Horizontal	51.24	74.00	-22.76	1.6	210

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FCC ID: M7UDWH400

17065.16	PK	Horizontal	48.41	74.00	-25.59	1.3	165
19503.04	PK	Horizontal	50.11	74.00	-23.89	1.9	180
21940.92	PK	Horizontal	50.15	74.00	-23.85	1.3	40
24378.80	PK	Horizontal	47.55	74.00	-26.45	2.2	205

High frequency

2461.50	AV	Vertical	103.86		(Fund.)	1.7	205
4923.00	AV	Vertical	47.95	54.00	-6.05	1.6	40
7384.50	AV	Vertical	44.21	54.00	-9.79	1.8	170
9846.00	AV	Vertical	46.24	54.00	-7.76	1.8	145
12307.50	AV	Vertical	41.03	54.00	-12.97	1.7	135
14769.00	AV	Vertical	46.54	54.00	-7.46	2.2	150
17230.50	AV	Vertical	42.21	54.00	-11.79	1.3	140
19692.00	AV	Vertical	45.36	54.00	-8.64	1.5	250
22153.50	AV	Vertical	41.58	54.00	-12.42	1.4	180
24615.00	AV	Vertical	37.21	54.00	-16.79	1.9	175
2461.50	AV	Horizontal	96.58		(Fund.)	1.7	175
4923.00	AV	Horizontal	44.25	54.00	-9.75	2.2	200
7384.50	AV	Horizontal	41.26	54.00	-12.74	1.4	165
9846.00	AV	Horizontal	43.85	54.00	-10.15	1.9	210
12307.50	AV	Horizontal	41.16	54.00	-12.84	1.4	175
14769.00	AV	Horizontal	35.26	54.00	-18.74	1.6	190
17230.50	AV	Horizontal	39.26	54.00	-14.74	1.7	240
19692.00	AV	Horizontal	35.21	54.00	-18.79	2.2	100
22153.50	AV	Horizontal	38.21	54.00	-15.79	1.5	140
24615.00	AV	Horizontal	30.16	54.00	-23.84	2.0	140
2461.50	PK	Vertical	113.15		(Fund.)	1.6	225
4923.00	PK	Vertical	60.02	74.00	-13.98	1.6	60
7384.50	PK	Vertical	57.14	74.00	-16.86	2.0	150
9846.00	PK	Vertical	59.22	74.00	-14.78	1.8	170
12307.50	PK	Vertical	54.16	74.00	-19.84	1.6	155
14769.00	PK	Vertical	60.16	74.00	-13.84	1.6	100
17230.50	PK	Vertical	55.16	74.00	-18.84	1.4	140
19692.00	PK	Vertical	56.15	74.00	-17.85	1.6	170
22153.50	PK	Vertical	54.46	74.00	-19.54	1.8	165
24615.00	PK	Vertical	48.16	74.00	-25.84	1.8	180
2461.50	PK	Horizontal	108.48		(Fund.)	1.8	220
4923.00	PK	Horizontal	57.46	74.00	-16.54	1.9	130
7384.50	PK	Horizontal	56.35	74.00	-17.65	1.7	180
9846.00	PK	Horizontal	55.21	74.00	-18.79	1.7	220
12307.50	PK	Horizontal	53.21	74.00	-20.79	1.4	140
14769.00	PK	Horizontal	47.68	74.00	-26.32	2.1	150
17230.50	PK	Horizontal	52.46	74.00	-21.54	2.0	195

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FCC ID: M7UDWH400

19692.00	PK	Horizontal	49.21	74.00	-24.79	1.9	180
22153.50	PK	Horizontal	50.16	74.00	-23.84	2.0	160
24615.00	PK	Horizontal	45.66	74.00	-28.34	1.6	250

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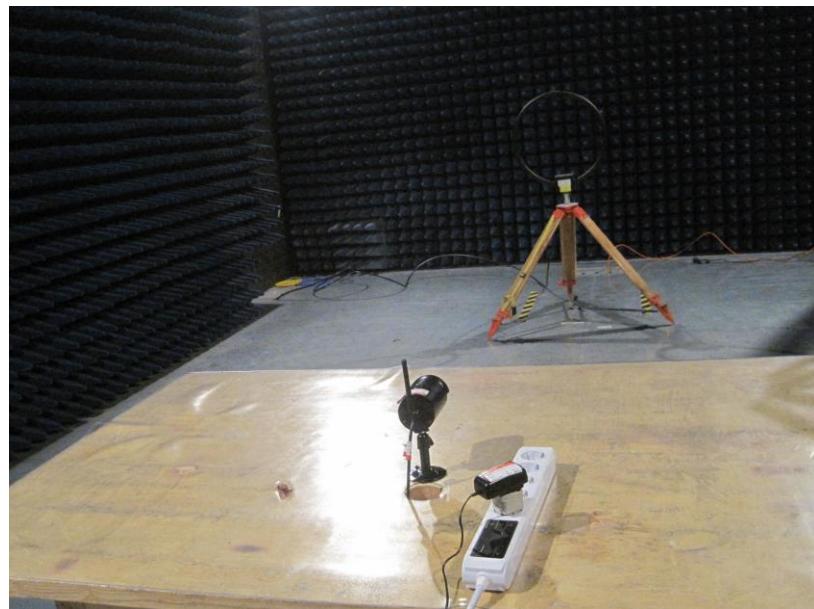
Reference No.: WT12096304-D-S-F

BRK Brands Inc

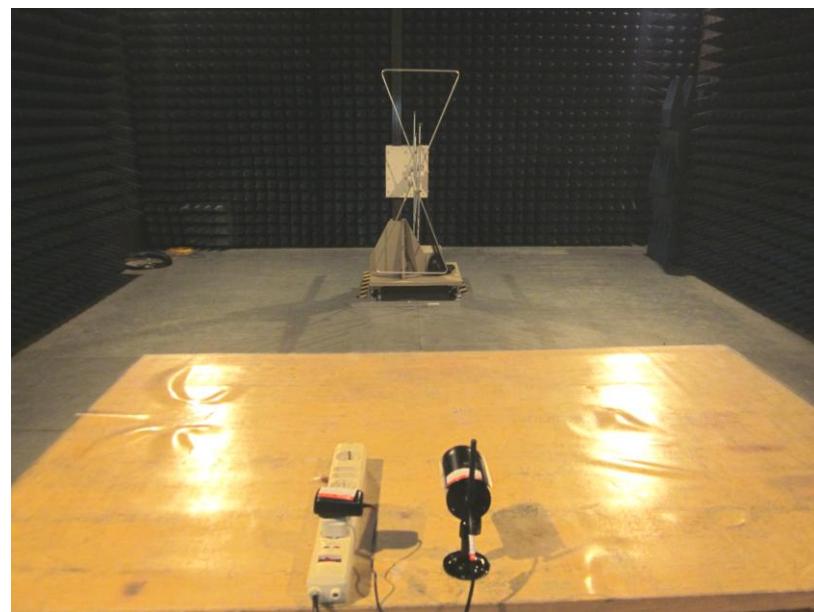
FCC ID: M7UDWH400

7.8 Photograph – Radiation Spurious Emission Test Setup

Below 30 MHz



30 MHz-1GHz



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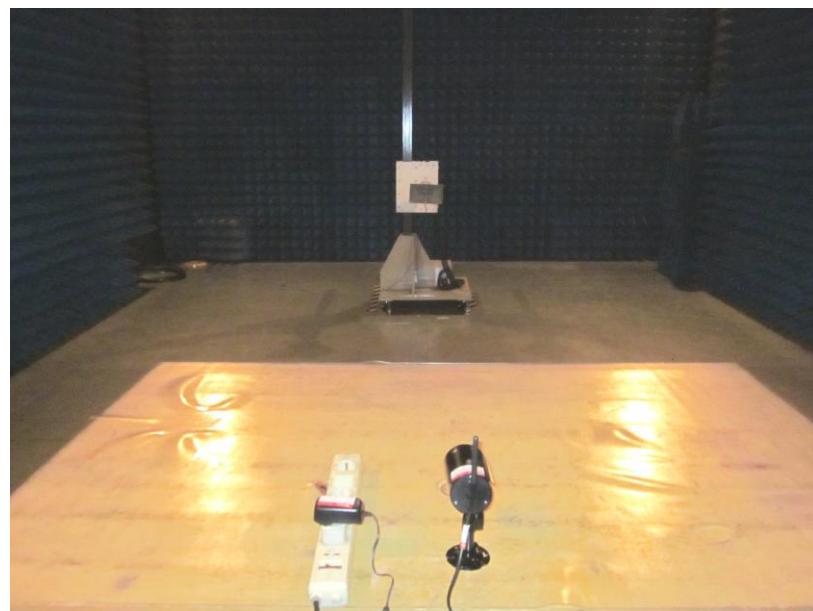
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Above 1GHz

FCC ID: M7UDWH400



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Reference No.: WT12096304-D-S-F

8 Band Edge Measurement

Test Requirement:	Section 15.247(d) In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).
Test Method:	Based on DA 00-705
Measurement Distance:	3m
Limit:	40.0 dBuV/m between 30MHz & 88MHz; 43.5 dBuV/m between 88MHz & 216MHz; 46.0 dBuV/m between 216MHz & 960MHz; 54.0 dBuV/m above 960MHz. 74.0 dBuV/m for peak above 1GHz 54.0 dBuV/m for AVG above 1GHz
Detector:	<p>For Peak value:</p> <p>RBW = 1 MHz for $f \geq 1$ GHz $VBW \geq RBW$; Sweep = auto Detector function = peak Trace = max hold</p> <p>For AVG value:</p> <p>RBW = 1 MHz for $f \geq 1$ GHz $VBW = 10\text{Hz}$; Sweep = auto Detector function = AVG Trace = max hold</p>

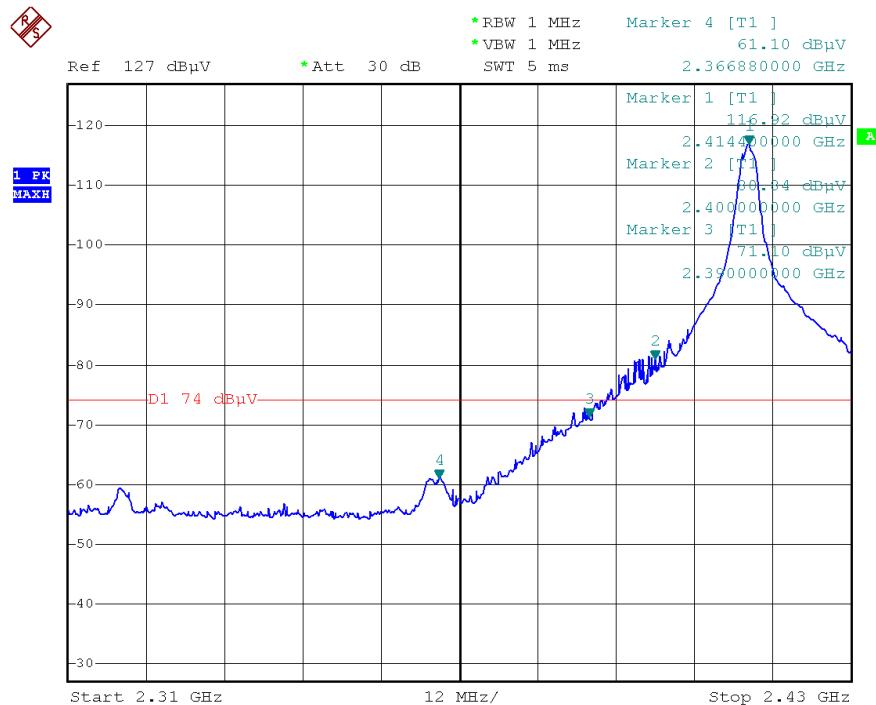
Remark: The bandedge measurements were performed with the hopping function disabled, then with the hopping function enabled. The worst data were shown as follow.

BRK Brands Inc

FCC ID: M7UDWH400

8.1 Test Result:

Low Channel – Peak



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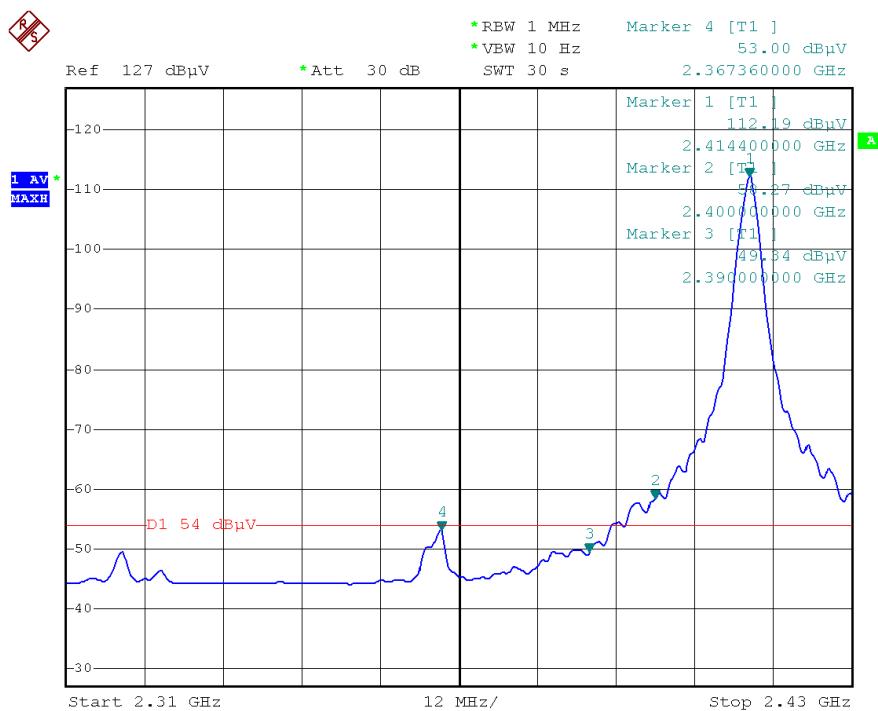
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Reference No.: WT12096304-D-S-F

BRK Brands Inc

FCC ID: M7UDWH400

Low Channel – AV



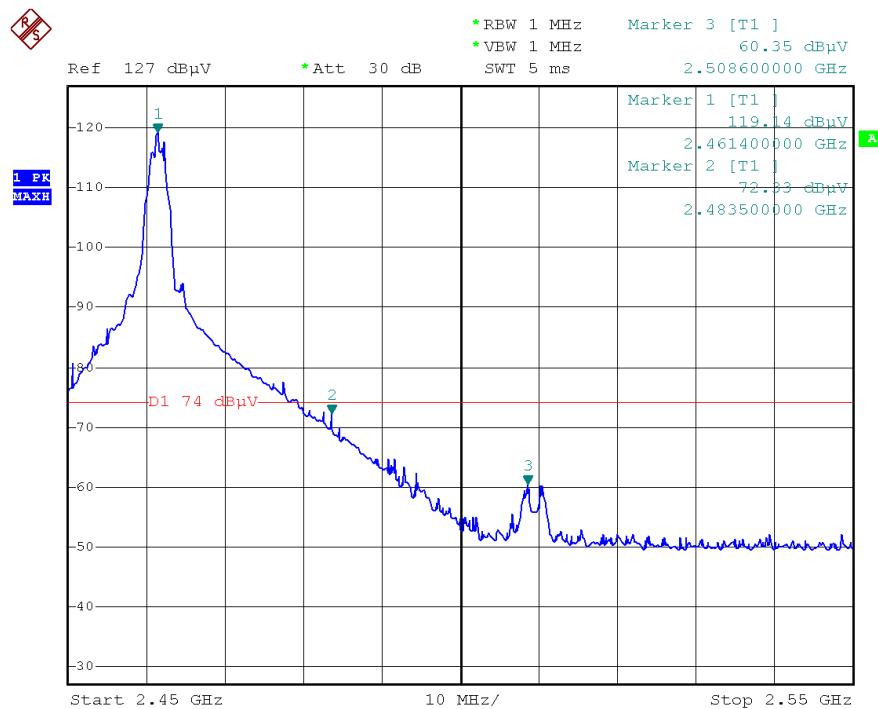
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FCC ID: M7UDWH400

High Channel – Peak

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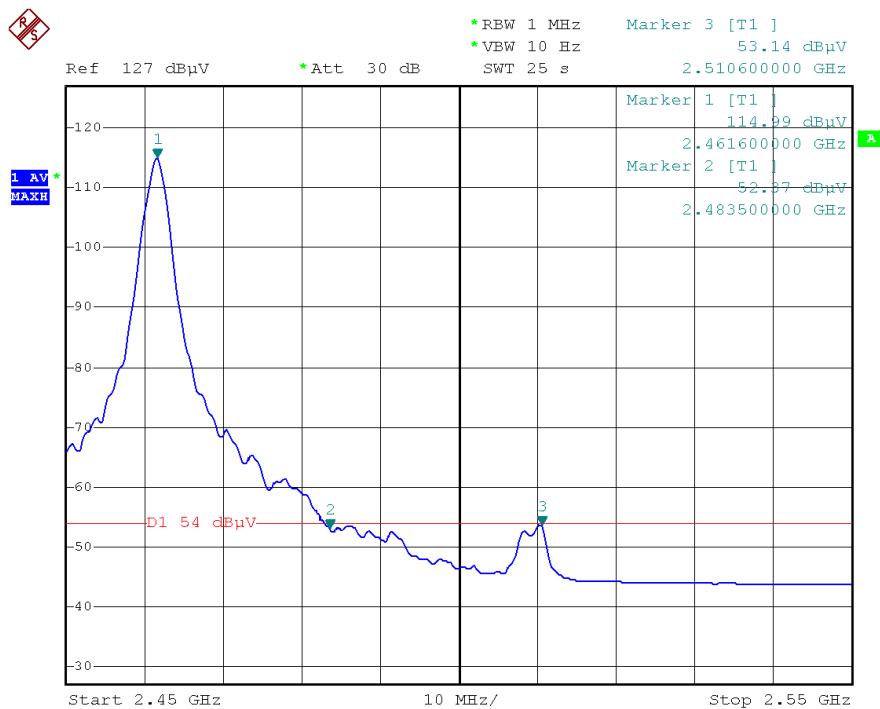
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Reference No.: WT12096304-D-S-F

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FCC ID: M7UDWH400

High Channel – AV



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Reference No.: WT12096304-D-S-F

BRK Brands Inc

FCC ID: M7UDWH400

9 20 dB Bandwidth Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247
 Test Method: Based on DA 00-705
 Test Mode: Test in fixing operating frequency at low, Middle, high channel.

9.1 Test Procedure:

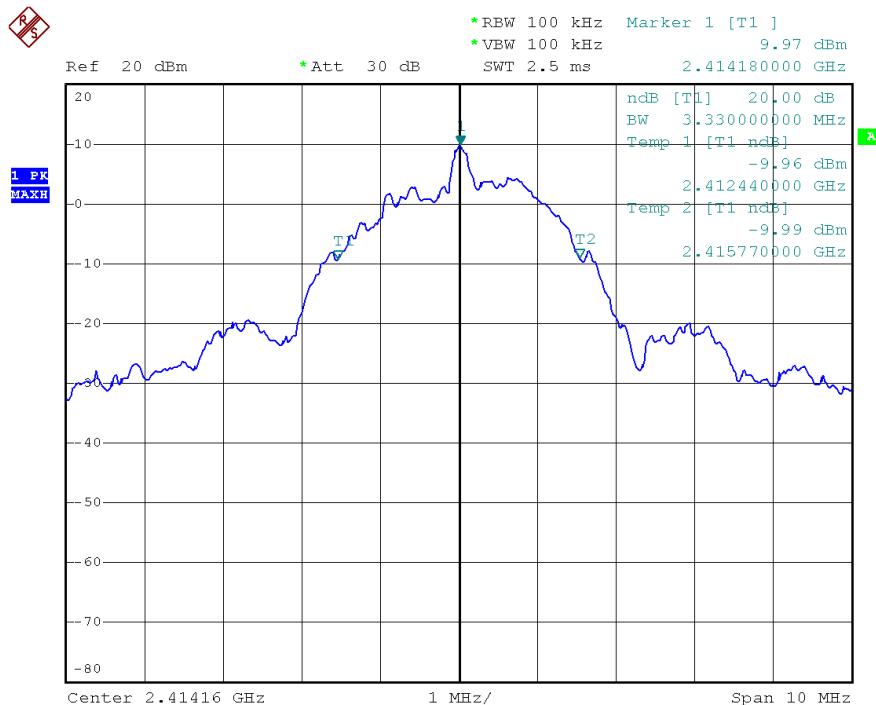
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 100kHz

9.2 Test Result:

Test Channel	Bandwidth
Low	3.33MHz
Middle	3.24MHz
High	3.38MHz

Test result plot as follows:

Low Channel



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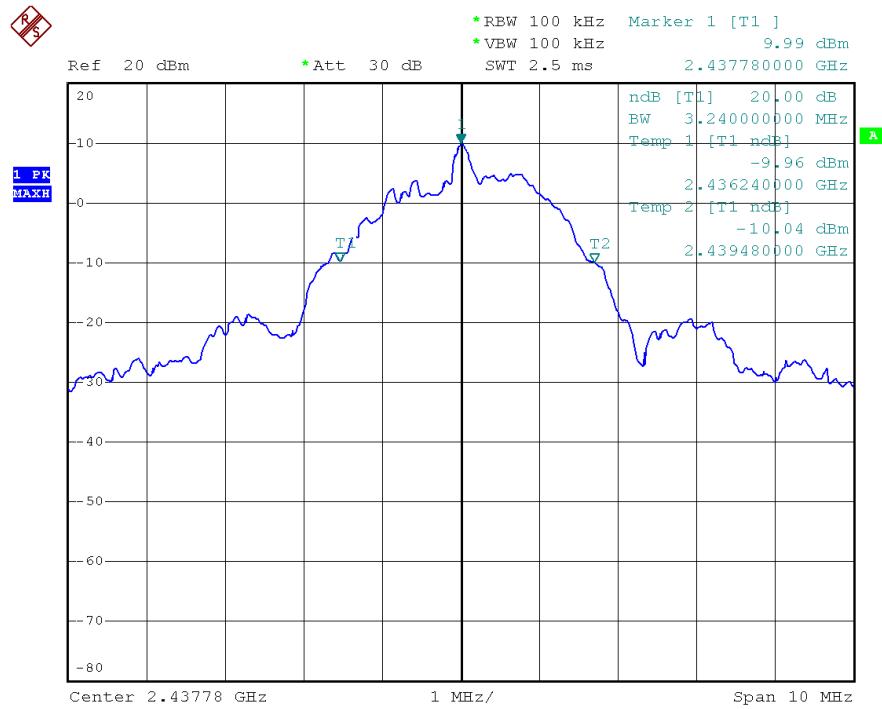
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Reference No.: WT12096304-D-S-F

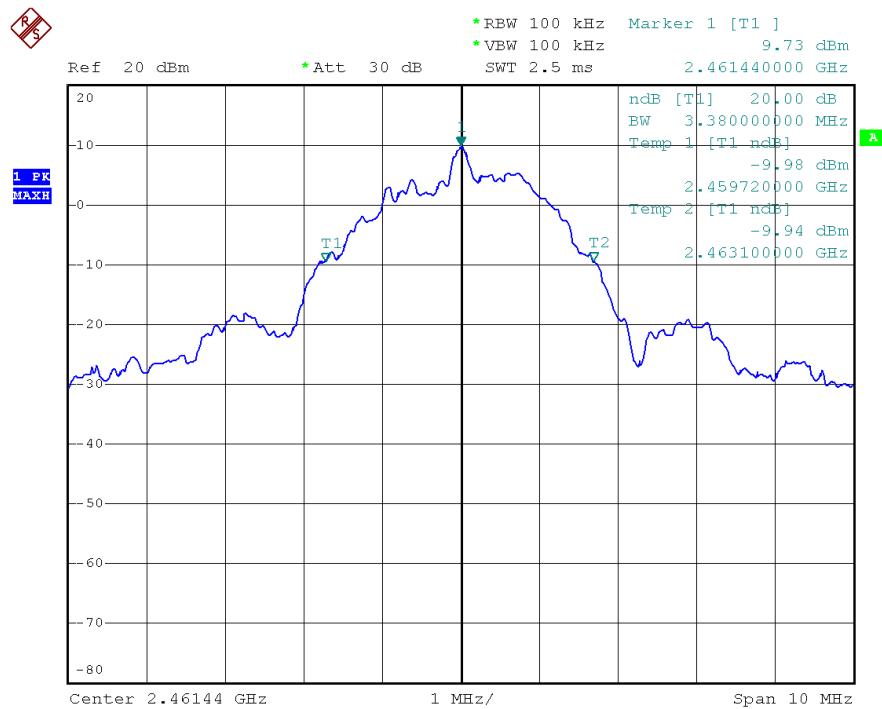
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FCC ID: M7UDWH400

Middle Channel



High Channel



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Reference No.: WT12096304-D-S-F

10 Maximum Peak Output Power

Test Requirement:	FCC CFR47 Part 15 Section 15.247
Test Method:	Based on ANSI C63.4:2003
Test Limit:	Regulation 15.247 (b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts. Refer to the result "Number of Hopping Frequency" of this document. The 0.125watts (20.97 dBm) limit applies.
Test mode:	Test in fixing frequency transmitting mode.

10.1 Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 3 MHz. VBW = 10 MHz. Sweep = auto; Detector Function = Peak.
3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

10.2 Test Result:

Test Channel	Output Power (dBm)	Limit (dBm)
Low	9.98	20.97
Middle	9.99	20.97
High	9.80	20.97

11 Hopping Channel Separation

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: Based on DA 00-705

Test Limit: Regulation 15.247(a)(1) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 1W.

Test Mode: Test in hopping transmitting operating mode.

11.1 Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 30kHz. VBW = 100kHz , Span = 7MHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

11.2 Test Result:

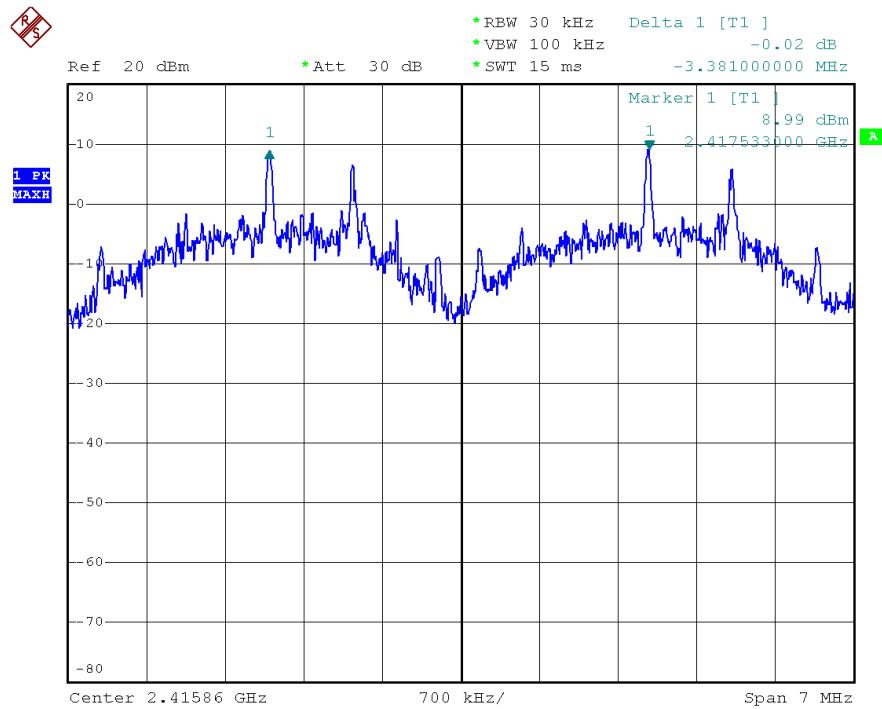
Test Channel	Separation (MHz)	Result
Low	3.381	PASS
Middle	3.381	PASS
High	3.374	PASS

BRK Brands Inc

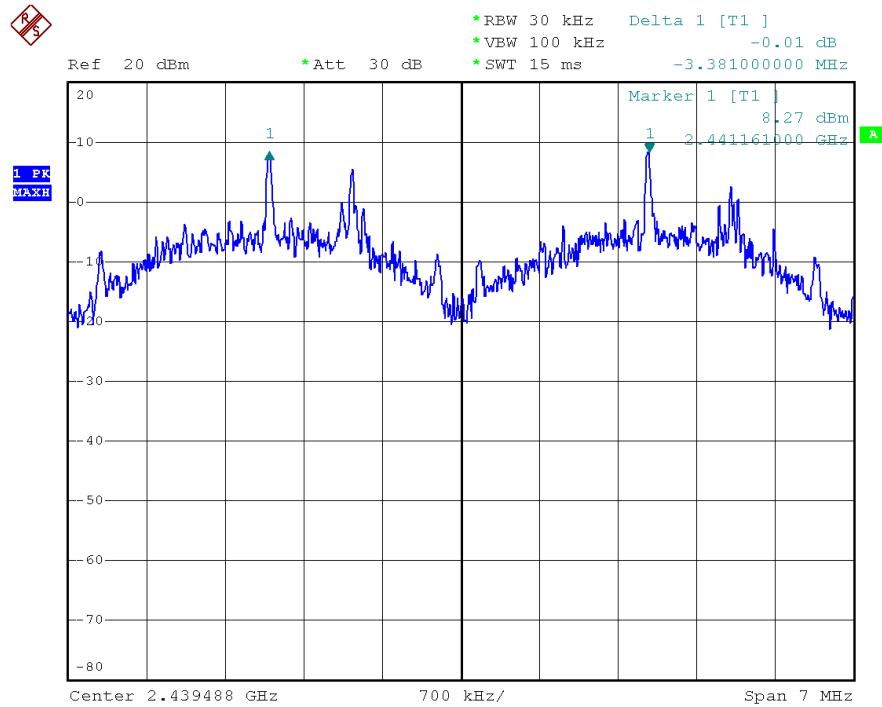
FCC ID: M7UDWH400

Test result plot as follows:

Low Channel:



Middle Channel



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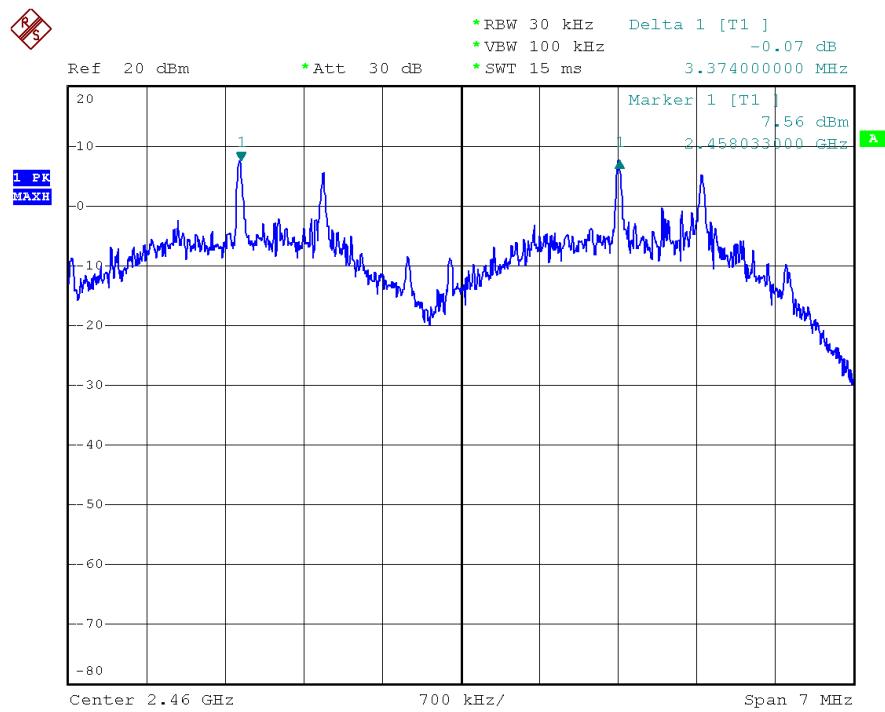
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FCC ID: M7UDWH400

High Channel



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12 Number of Hopping Frequency

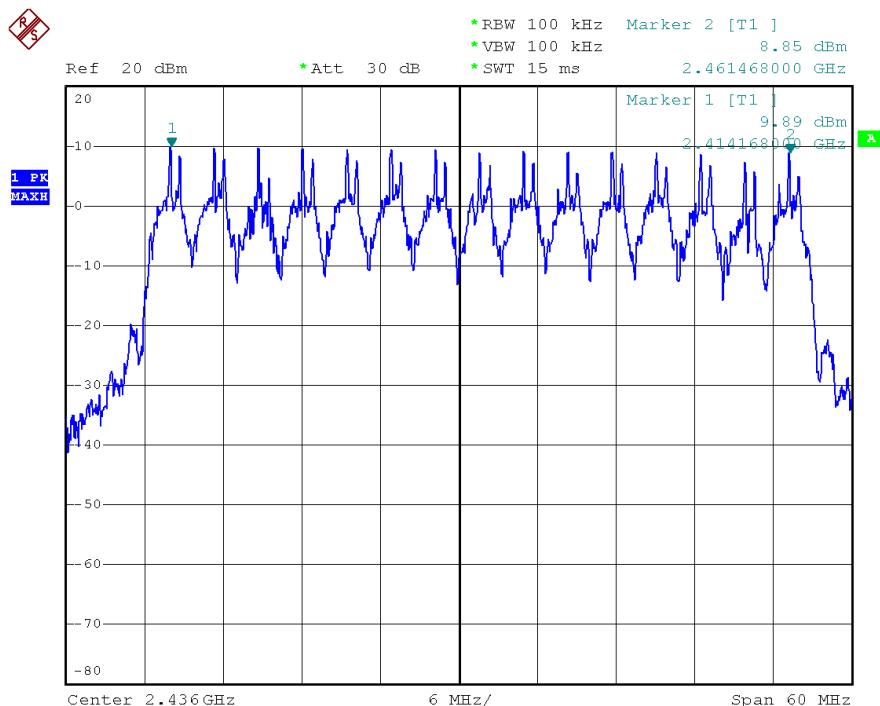
Test Requirement:	FCC CFR47 Part 15 Section 15.247
Test Method:	Based on DA 00-705
Test Limit:	Regulation 15.247 (a)(1)(iii) Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.
Test Mode:	Test in hopping transmitting operating mode.

12.1 Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 100 kHz. VBW = 100 kHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. It may prove necessary to break the span up to sections. in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section.
4. Set the spectrum analyzer: Center Frequency = 2436MHz, Span = 60MHz. Submit the test result graph.

12.2 Test Result:

Total Channels are 15 Channels.



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13 Dwell Time

Test Requirement:	FCC CFR47 Part 15 Section 15.247
Test Method:	Based on DA 00-705
Test Limit:	Regulation 15.247(a)(1)(iii) Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Mode:	Test in hopping transmitting operating mode.

13.1 Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set spectrum analyzer span = 0. centered on a hopping channel;
3. Set RBW = 1MHz and VBW = 1MHz. Sweep = as necessary to capture the entire dwell time per hopping channel.
4. Use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g.. data rate. modulation format. etc.). repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

13.2 Test Result:

Dwell time = Pulse width x (Hopping rate / Number of channels) x Period

The test period: $T = 0.4(s) * 15 = 6 (s)$

So, the Dwell Time can be calculated as follows:

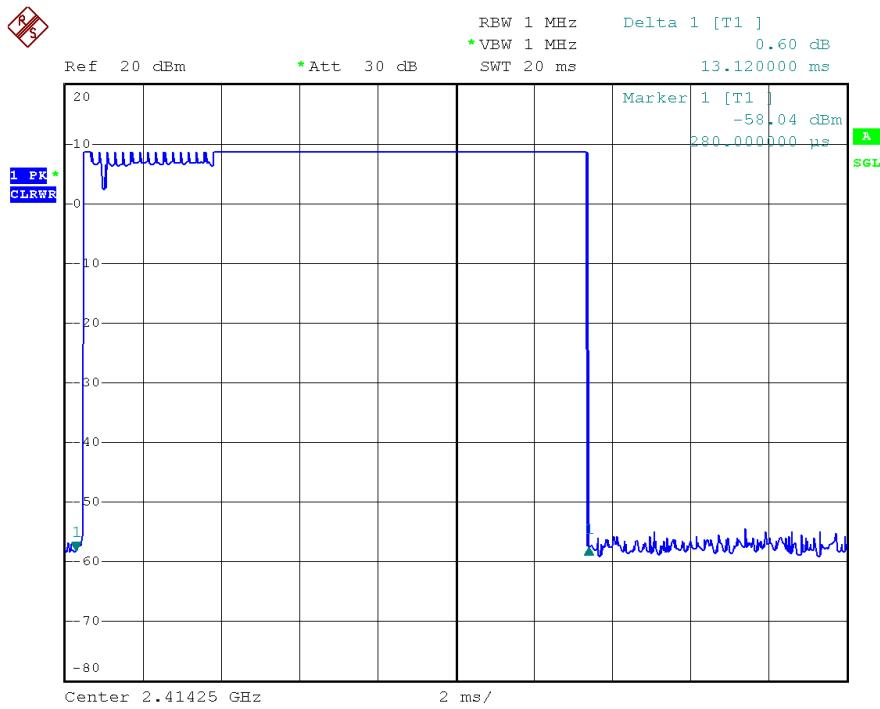
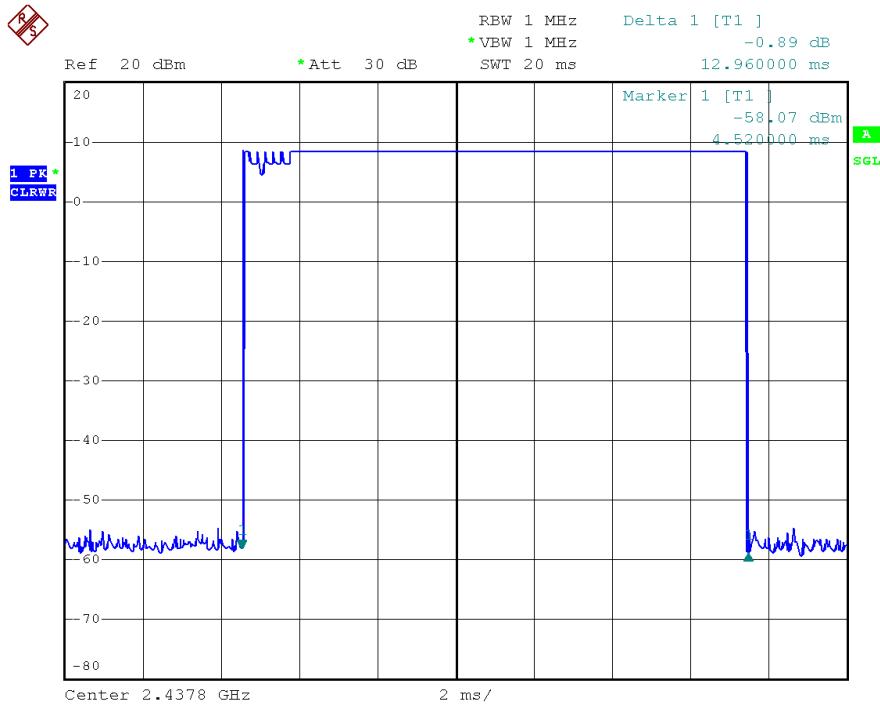
$Dwell\ time = 4 * 6 * (Mkr\Delta) / 1000$

Note : Mkr Delta is once pulse time.

Frequency	Mkr Delta(ms)	Dwell Time(s)	Limits(s)	Result
2414 MHz	13.12	0.3149	0.400	Pass
2437 MHz	12.96	0.3110	0.400	Pass
2461 MHz	12.92	0.3100	0.400	Pass

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FCC ID: M7UDWH400

Low Channel**Middle Channel**

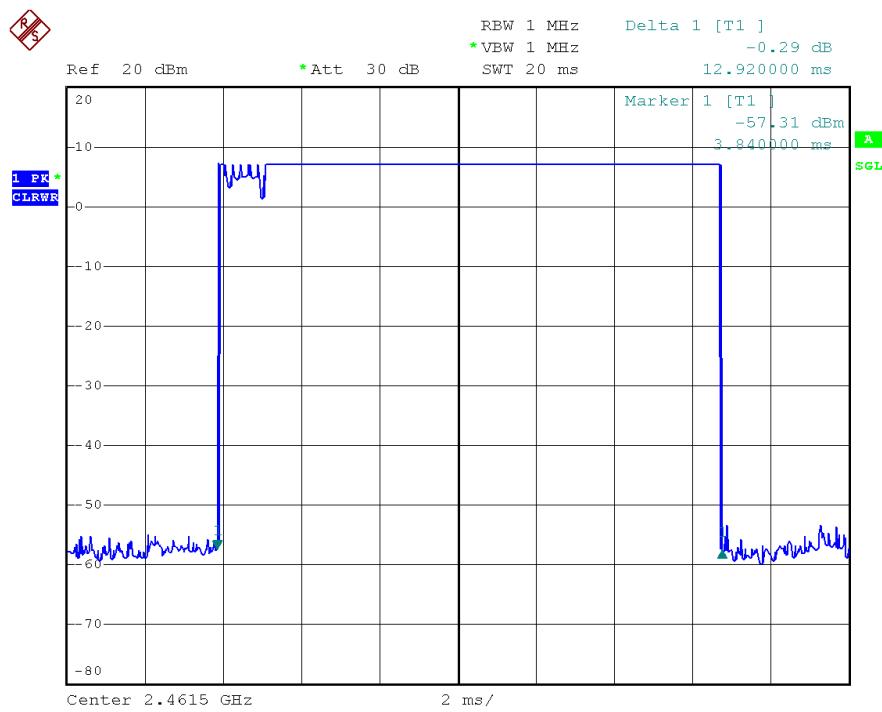
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High Channel

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14 Antenna Requirement

According to the FCC Part 15 Paragraph 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. This product use a special unique antenna with RP SMA connector, fulfill the requirement of this section.

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15 RF Exposure

Test Requirement: FCC Part 1.1307

Test Mode: The EUT work in test mode(Tx).

15.1 Requirements:

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

15.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density

15.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
3	1.995	9.98	9.954	0.003951	1	Complies
3	1.995	9.99	9.977	0.003960	1	Complies
3	1.995	9.80	9.550	0.003790	1	Complies

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16 Photographs - Constructional Details

16.1 Product View



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16.2 EUT – Appearance View



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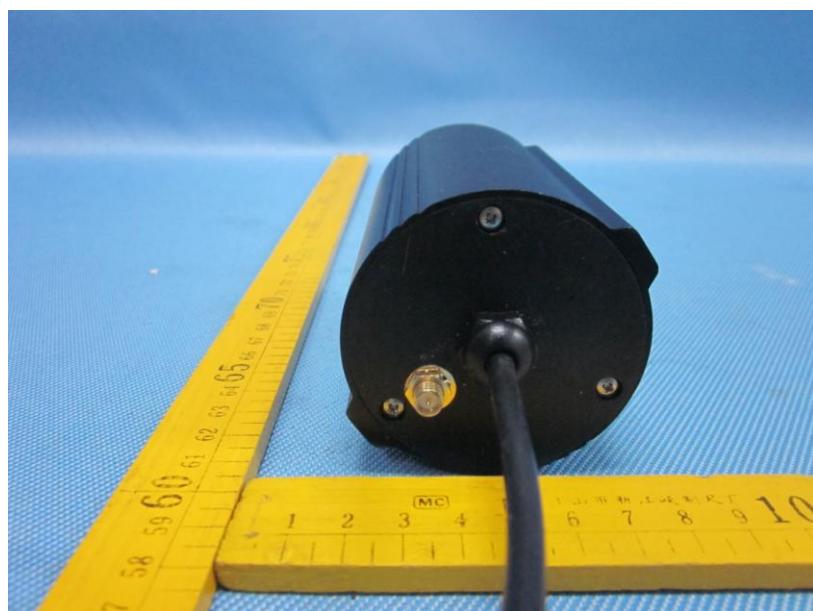
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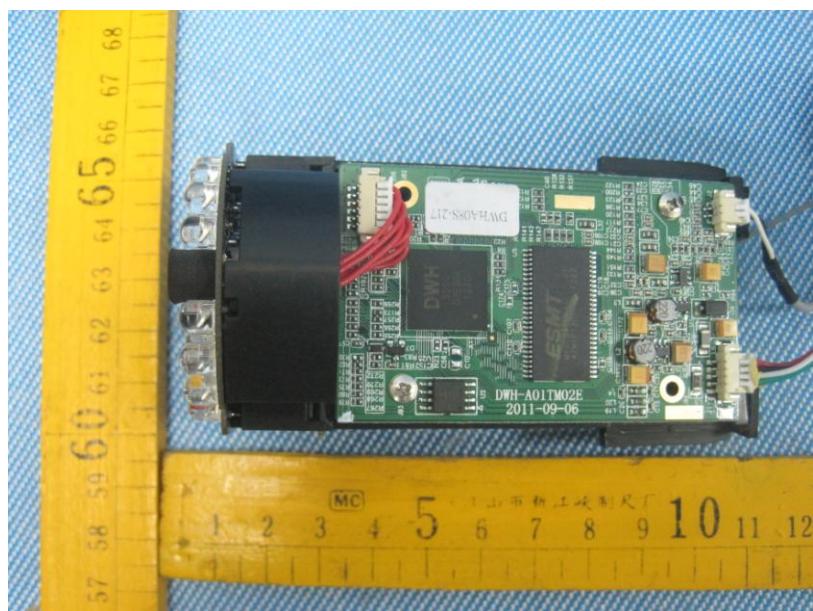
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Reference No.: WT12096304-D-S-F

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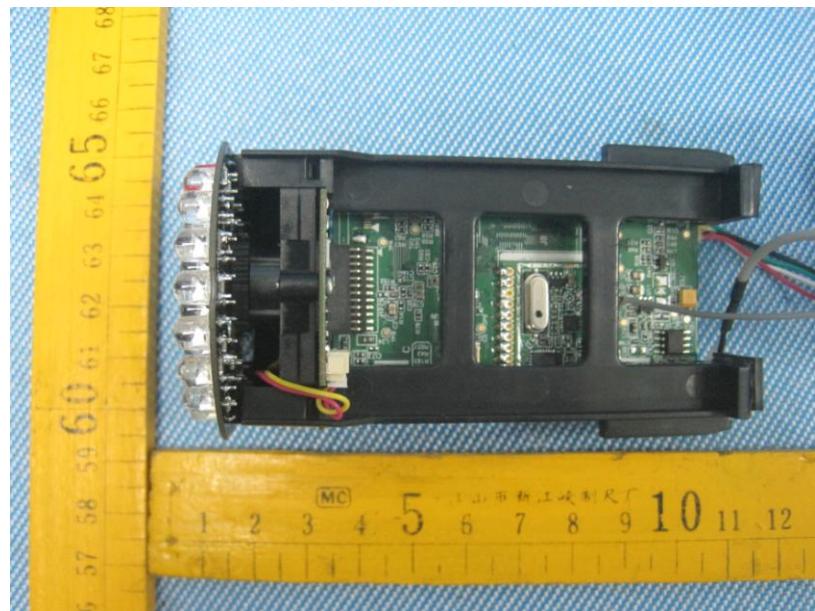
16.3 EUT – Open View



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16.4 EUT – PCB View



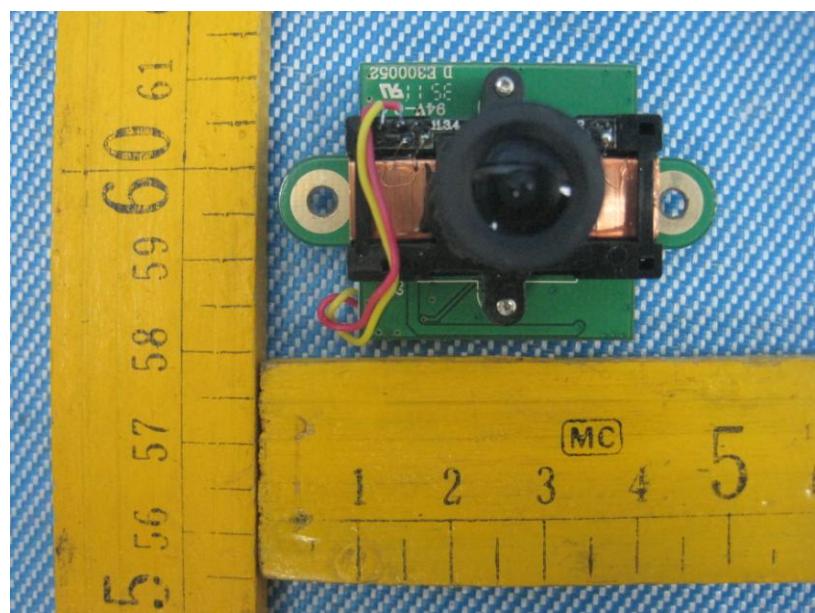
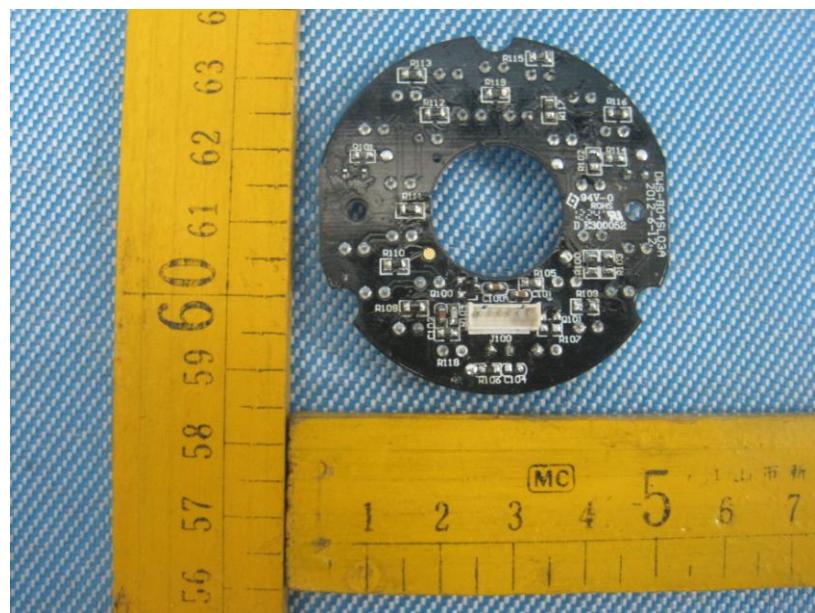
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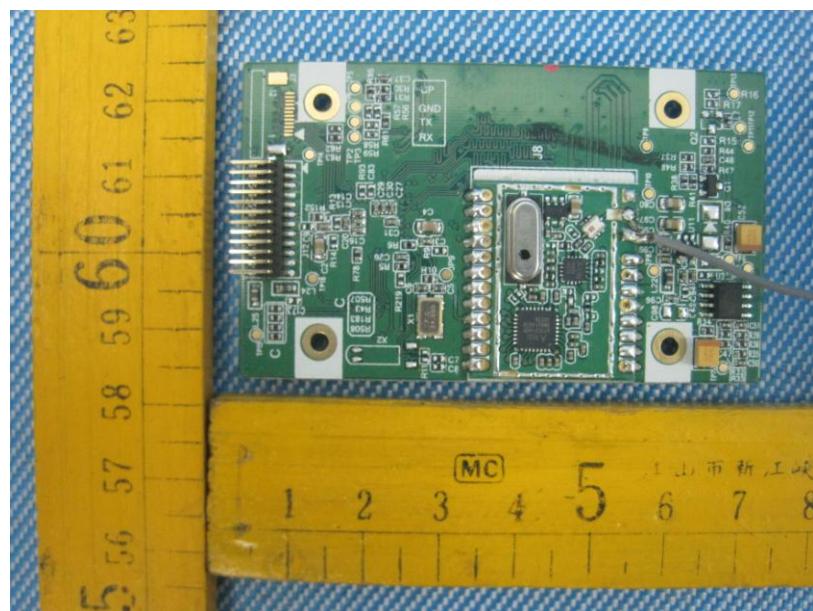
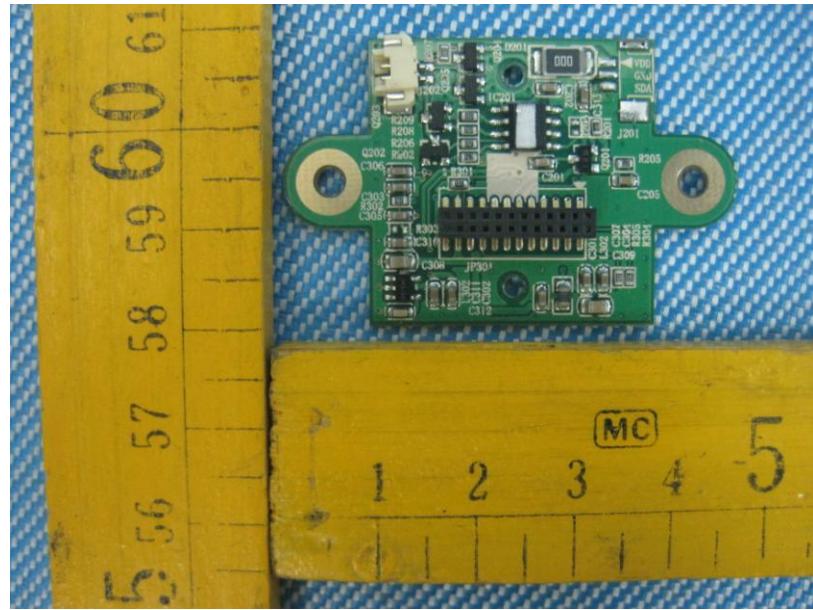
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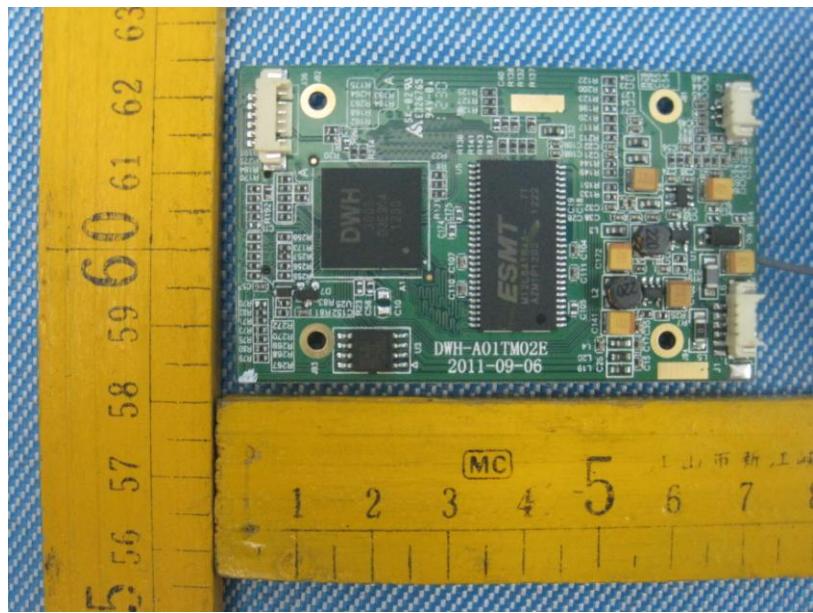
FCC ID: M7UDWH400



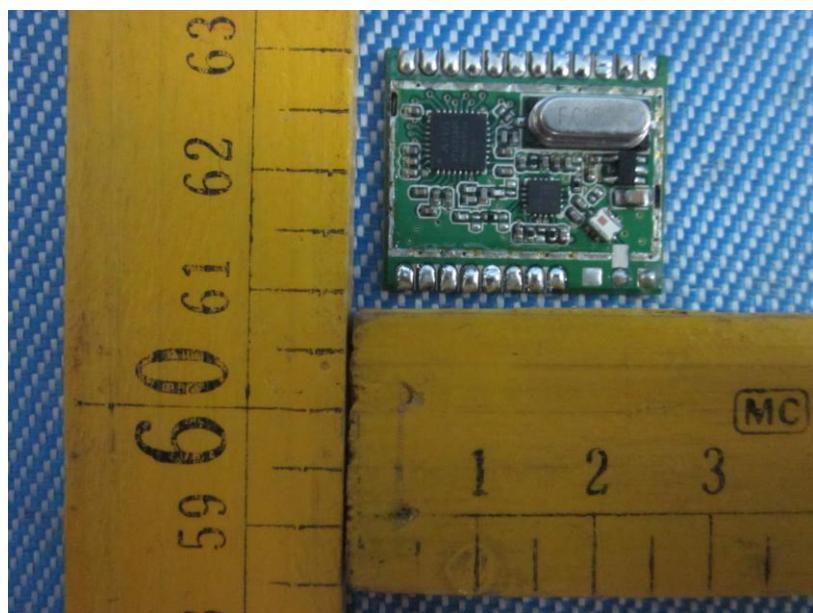
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16.5 RF Module - View



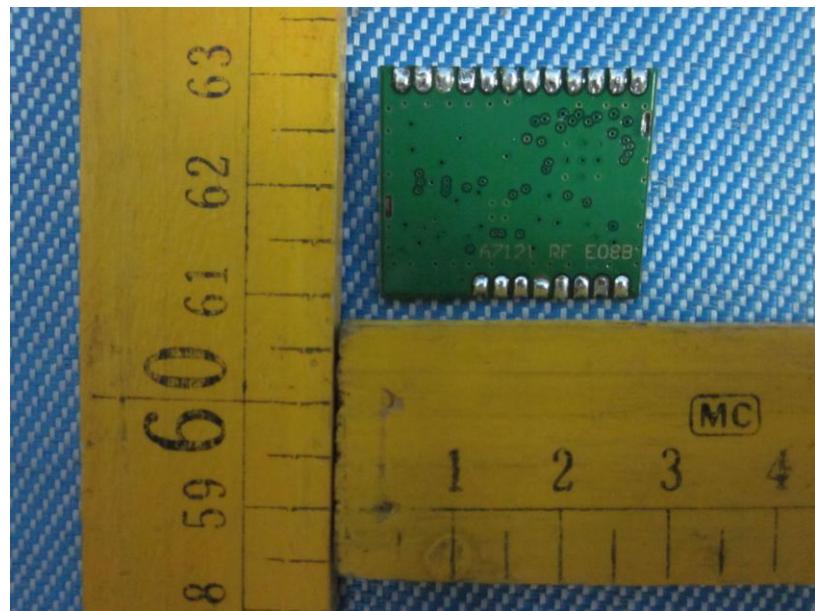
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17 FCC Label

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

The Label must not be a stick-on paper. The Label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Proposed Label Location on EUT
EUT Side View/ proposed FCC Label Location



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