

TEST REPORT

of

FCC Part 15 Subpart C

☒ New Application; ☐ Class I PC; ☐ Class II PC

Product : Aetherlink 720p IP Camera
Brand: GKB
Model: GKB AC80128
Model Difference: N/A
FCC ID: 2ADWQ-AC80128
FCC Rule Part: §15.249, Cat: DXX
Applicant: GKB Security Corporation
Address: No.42,Lan 851,Zhongshan Rd. Shengang Dist.,
Taichung 429, Taiwan

Test Performed by:

International Standards Laboratory

<Lung-Tan LAB>

*Site Registration No.

BSMI: SL2-IN-E-0013; MRA TW1036; TAF: 0997; IC: IC4067B-3;

*Address:

No.120, Ln. 180, Xinhe Rd., Longtan Dist., Taoyuan City 325, Taiwan (R.O.C.)

*Tel : 886-3-407-1718; Fax: 886-3-407-1738

Report No.: **ISL-14LR302FCDXX**

Issue Date : **2014/12/23**



Test results given in this report apply only to the specific sample(s) tested and are traceable to national or international standard through calibration of the equipment and evaluating measurement uncertainty herein.

This report MUST not be used to claim product endorsement by TAF, NVLAP or any agency of the Government.

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VERIFICATION OF COMPLIANCE

Applicant: GKB Security Corporation
Product Description: Aetherlink 720p IP Camera
Brand Name: GKB
Model No.: GKB AC80128
Model Difference: N/A
FCC ID: 2ADWQ-AC80128
FCC Rule Part: §15.249, Cat: DXX
Date of test: 2014/12/08 ~ 2014/12/18
Date of EUT Received: 2014/12/08

We hereby certify that:

All the tests in this report have been performed and recorded in accordance with the standards described above and performed by an independent electromagnetic compatibility consultant, International Standards Laboratory.

The test results contained in this report accurately represent the measurements of the characteristics and the energy generated by sample equipment under test at the time of the test. The sample equipment tested as described in this report is in compliance with the limits of above standards.

Test By:

Lake Cheng

Date:

2014/12/23

Lake Cheng / Engineer

Prepared By:

Elisa Chen

Date:

2014/12/23

Elisa Chen / Specialist

Approved By:

Vincent Su

Date:

2014/12/23

Vincent Su / Technical Manager

Version

Version No.	Date	Description
00	2014/12/23	Initial creation of document

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1. General Information

1.1. Product Description

General:

Product Name:	Aetherlink 720p IP Camera	
Brand Name:	GKB	
Model Name:	GKB AC80128	
Model Difference:	N/A	
Micro SD slot:	One provided	
USB port:	One provided for power input	
Power Supply:	5Vdc from AC/DC adapter	
	Adapter:	Model: KSA29B0500200D5

WLAN / 1TX, 1RX:

Frequency Range:	802.11b/g/n HT20: 2412 – 2462MHz 802.11n HT40: 2422 – 2452MHz
Channel number:	802.11b/g/n HT20: 11 channels 802.11n HT40: 7 channels
Transmit Power:	802.11b : 18.18dBm (Peak) 802.11g : 24.09dBm (Peak) 802.11n HT20 : 24.00dBm (Peak) 802.11n HT40 : 23.61dBm (Peak)
Power Tolerance:	+/- 2dB
Modulation Technology:	DSSS, OFDM
Modulation type:	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Antenna Designation:	PIFA Antenna, 2dBi.

The EUT is compliance with IEEE 802.11 b/g/n Standard.

Z-Wave: 1TX/1RX

Modulation type	GFSK
Frequency Range (MHz)	908.4MHz
Channel Number	1
Measured Power	PK:86.20dBuV/m at 3 m

The report applies for 908.4MHz Z-Wave mode.

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

1.2. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: 2ADWQ-AC80128** filing to comply with Section 15.249 of the FCC Part 15.

1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2009) and RSS-Gen Issue 4: 2014. Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4. Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of **International Standards Laboratory** <Lung-Tan LAB> No.120, Ln. 180, Xinhe Rd., Longtan Dist., Taoyuan City 325, Taiwan (R.O.C.) which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2009. FCC Registration Number is: TW1036, Canada Registration Number: 4067B-3.

1.5. Special Accessories

Not available for this EUT intended for grant.

1.6. Equipment Modifications

Not available for this EUT intended for grant.

2. System Test Configuration

2.1. 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

The Transmitter was operated in the engineering operating mode. the Tx frequency was fixed at Lowest, Mid and highest channel which were for the purpose of the measurements.

2.3. Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4-2009 and RSS-Gen Issue 4: 2014. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. 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 according to the requirements in Section 8 and 13 of ANSI C63.4-2009 and RSS-Gen:2010.

2.4. Limitation

(1) Conducted Emission

According to section 15.207(a) Conducted Emission Limits is as following.

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15 – 0.5	66 - 56	56 - 46
0.5 – 5	56	46
5 - 30	60	50

(2) Radiated Emission 15.249(a)

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following.

Frequency (MHz)	Field strength of Fundamental	Field strength of Harmonics	Distance (m)
902 - 928	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3
2400 – 2483.5	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3
5725 – 5875	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3

(3) Radiated Emission 15.249 (d)

Emission Radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in Section 15.209 and RSS-210 issue 8, §A2.9(a) as below, whichever is the lesser attenuation.

Frequency (MHz)	Field strength $\mu\text{V/m}$	Distance (m)	Field strength at 3m $\text{dB}\mu\text{V/m}$
1.705-30	30	30	69.54
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

(4) Radiated Emission 15.249(e)

For frequencies above 1000MHz, the above field strength limits are based on average limits. The peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20dB under any condition of modulation.

- Remark:
1. Emission level in $\text{dB}\mu\text{V/m} = 20 \log (\mu\text{V/m})$
 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of § 15.205
 4. Emission spurious frequency which appearing within the Restricted Bands specified in provision of § 15.205, then the general radiated emission limits in § 15.209 apply.

2.5. Configuration of Tested System

Fig. Configuration of Tested System

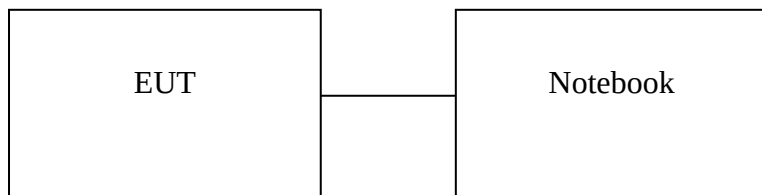


Table 2-2 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1	NoteBook	IBM	X40	N/A	N/A	No- Shielding

Note: All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

Grounding: Grounding was in accordance with the manufacturer's requirements and conditions for the intended use.

3. Summary of Test Results

FCC Rules	Description Of Test	Result
§15.207/	Conducted Emission	Compliant
§15.249(a)(d)(e)	Field Strength Measurement	Compliant
§15.215(c)	20dB band width Measurement	Compliant

Description of test modes

The EUT has been tested under operating condition.

Test program used to control the EUT for staying in continuous transmitting and receive mode is programmed.

Z-Wave mode:

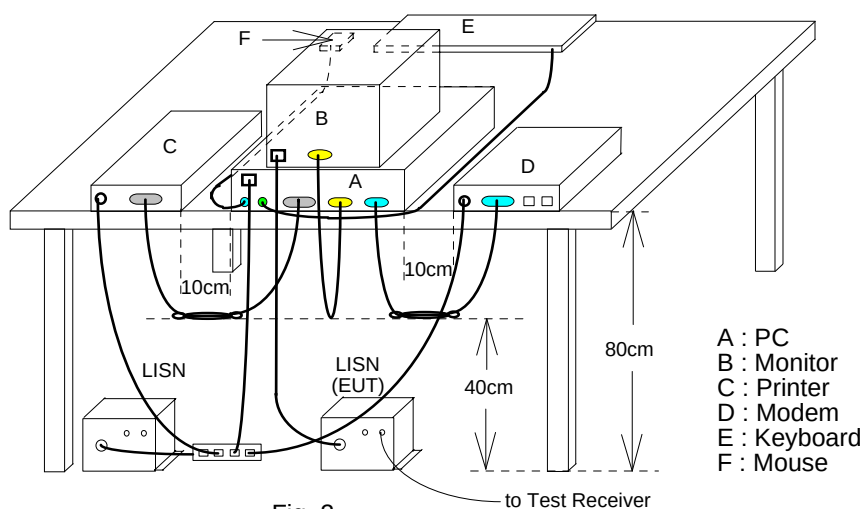
Channel 908.4MHz with highest data rate is chosen for full testing.

4. Conducted Emissions Test

4.1 Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

4.2 Test SET-UP (Block Diagram of Configuration)



4.3 Measurement Equipment Used:

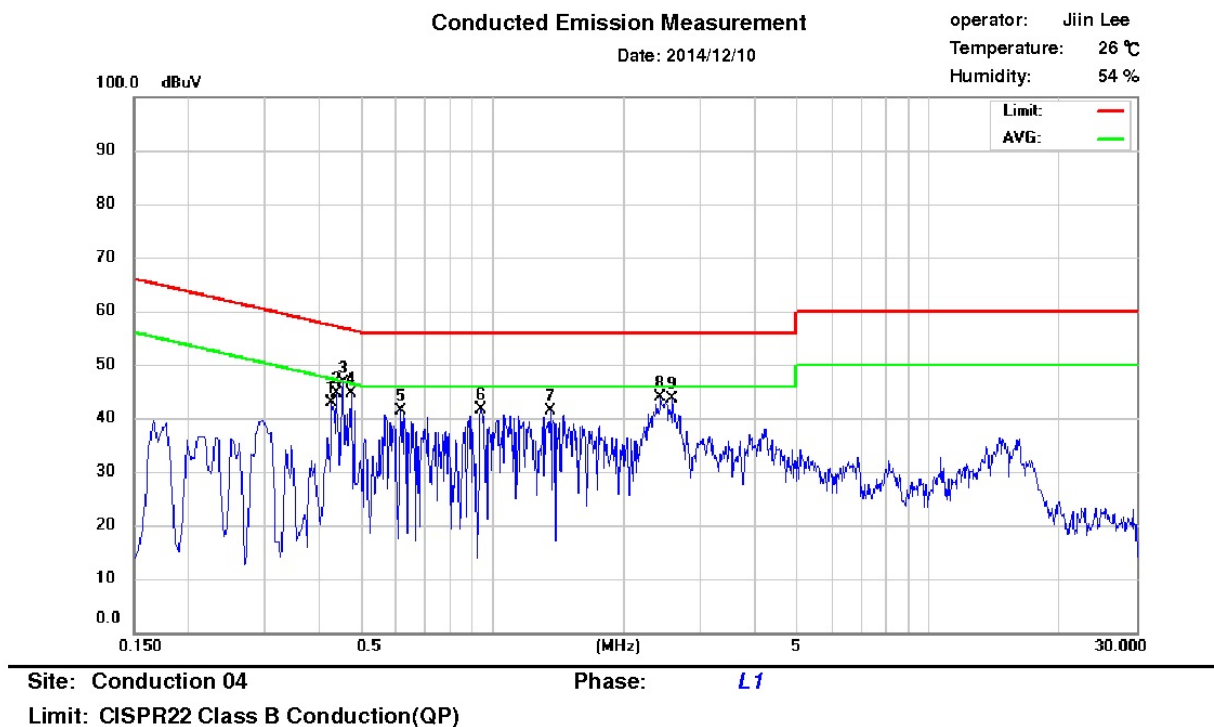
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Conduction 04-1 Cable	WOKEN	CFD 300-NL	Conduction 04 -1	09/24/2014	09/23/2015
EMI Receiver 16	Rohde & Schwarz	ESCI	101221	05/08/2014	05/07/2015
LISN 18	ROHDE & SCHWARZ	ENV216	101424	03/13/2014	03/12/2015
LISN 19	ROHDE & SCHWARZ	ENV216	101425	03/13/2014	03/12/2015

4.4 Measurement Result:

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

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation Mode	Test Date:	2014/12/10
Test By:	Lake		

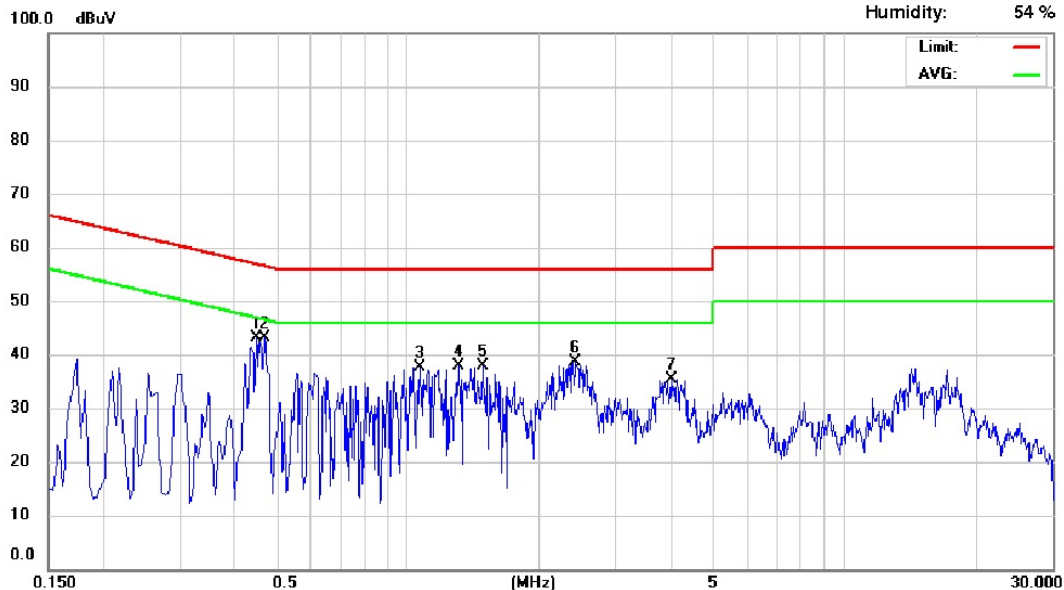


No.	Frequency (MHz)	Correct Factor (dB)	QP Emission (dBuV)	QP Limit (dBuV)	QP Margin (dB)	AVG Emission (dBuV)	AVG Limit (dBuV)	AVG Margin (dB)	Note
1	0.426	9.61	41.27	57.33	-16.06	25.99	47.33	-21.34	
2	0.438	9.61	43.65	57.10	-13.45	23.52	47.10	-23.58	
3	0.454	9.61	45.31	56.80	-11.49	27.86	46.80	-18.94	
4	0.474	9.61	42.89	56.44	-13.55	25.16	46.44	-21.28	
5	0.614	9.61	38.75	56.00	-17.25	21.77	46.00	-24.23	
6	0.942	9.64	37.00	56.00	-19.00	18.90	46.00	-27.10	
7	1.354	9.65	36.93	56.00	-19.07	19.57	46.00	-26.43	
8	2.426	9.69	38.84	56.00	-17.16	22.91	46.00	-23.09	
9	2.590	9.69	39.45	56.00	-16.55	22.08	46.00	-23.92	

Conducted Emission Measurement

Date: 2014/12/10

operator: Jiin Lee
Temperature: 26 °C
Humidity: 54 %



Site: Conduction 04

Phase: *N*

Limit: CISPR22 Class B Conduction(QP)

No.	Frequency (MHz)	Correct Factor (dB)	QP Emission (dBuV)	QP Limit (dBuV)	QP Margin (dB)	AVG Emission (dBuV)	AVG Limit (dBuV)	AVG Margin (dB)	Note
1	0.450	9.62	40.67	56.88	-16.21	27.90	46.88	-18.98	
2	0.470	9.62	39.91	56.51	-16.60	26.34	46.51	-20.17	
3	1.066	9.65	34.74	56.00	-21.26	18.51	46.00	-27.49	
4	1.310	9.66	33.21	56.00	-22.79	17.94	46.00	-28.06	
5	1.482	9.66	33.16	56.00	-22.84	19.64	46.00	-26.36	
6	2.434	9.70	35.21	56.00	-20.79	21.25	46.00	-24.75	
7	4.018	9.74	31.00	56.00	-25.00	17.11	46.00	-28.89	

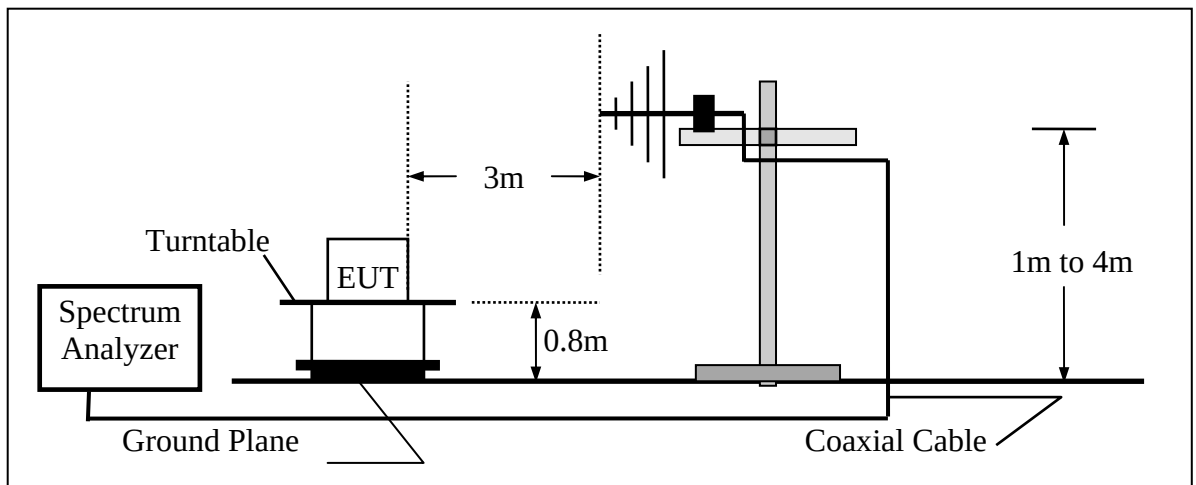
5. Radiated Emission Test (TX, RX)

5.1 Measurement Procedure

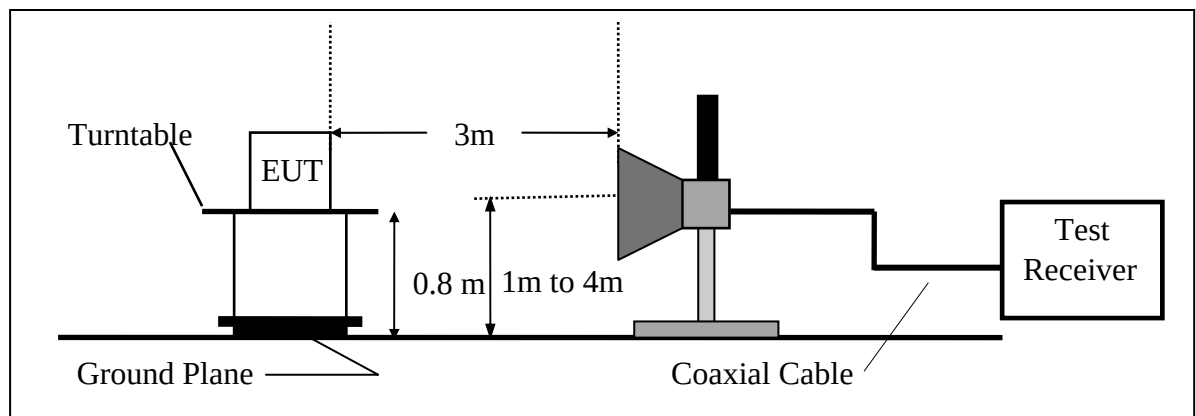
1. The EUT was placed on a turntable that is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

5.2 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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



5.3 Measurement Equipment Used:

Chamber 14(966)					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer 21(26.5GHz)	Agilent	N9010A	MY49060537	07/18/2014	07/17/2015
Spectrum Analyzer 20(6.5GHz)	Agilent	E4443A	MY48250315	05/26/2014	05/25/2015
Spectrum Analyzer 22(43GHz)	R&S	FSU43	100143	05/07/2014	05/06/2015
Loop Antenna9K-30M	A.H.SYSTEM	SAS-564	294	03/07/2013	03/06/2015
Bilog Antenna30-1G	Schaffner	CBL 6112B	2756	01/08/2014	01/07/2015
Horn antenna1-18G(06)	EMCO	3117	0006665	11/04/2014	11/03/2015
Horn antenna26-40G(05)	Com-power	AH-640	100A	01/09/2013	01/08/2015
Horn antenna18-26G(04)	Com-power	AH-826	081001	05/15/2013	05/14/2015
Preamplifier9-1000M	HP	8447D	NA	02/20/2014	02/19/2015
Preamplifier1-18G	MITEQ	AFS44-001018 00-25-10P-44	1329256	07/18/2014	07/17/2015
Preamplifier1-26G	EM	EM01M26G	NA	02/20/2014	02/19/2015
Preamplifier26-40G	MITEQ	JS-26004000-2 7-5A	818471	05/08/2013	05/07/2015
Cable1-18G	HUBER SUHNER	Sucoflex 106	NA	02/17/2014	02/16/2015
Cable UP to 1G	HUBER SUHNER	RG 214/U	NA	10/14/2014	10/13/2015
SUCOFLEX 1GHz~40GHz cable	HUBER SUHNER	Sucoflex 102	27963/2&3742 1/2	10/03/2013	10/02/2015
2.4G Filter	Micro-Tronics	Brm50702	76	12/27/2013	12/26/2014

5.4 Field Strength Calculation

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

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

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

5.5 Measurement Result

5.5.1 Fundamental Emission Measurement Result

Operation Mode	Z-wave TX mode	Test Date	2014/12/11
Fundamental Frequency	908.4MHz	Test By	Dino
Temperature	25 °C	Humidity	60 %

No	Freq MHz	Reading dBuV	Factor dB	Level dBuV/m	Limit dBuV/m	Over Limit dB	Remark	Pol V/H
1	908.40	86.27	-0.35	85.92	94.00	-8.08	Peak	VERTICAL
1	908.41	86.55	-0.35	86.20	94.00	-7.80	Peak	HORIZONTAL

Remark:

- 1 Measuring frequencies from the lowest internal frequency to the 10th of fundamental frequency
- 2 Field strength limits for frequency above 1000MHz are based on average limits.
However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 3 Measurement of data within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 5 Spectrum AV mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 10MHz.

5.5.2 Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	Z-wave TX mode	Test Date	2014/12/11
Fundamental Frequency	908.4MHz	Test By	Dino
Temperature	25 °C	Humidity	60 %

No	Freq MHz	Reading dBuV	Factor dB	Level dBuV/m	Limit dBuV/m	Over Limit dB	Remark	Pol V/H
1	63.95	38.72	-13.60	25.12	40.00	-14.88	Peak	VERTICAL
2	96.93	40.41	-17.78	22.63	43.50	-20.87	Peak	VERTICAL
3	294.81	35.32	-11.23	24.09	46.00	-21.91	Peak	VERTICAL
4	399.57	38.94	-9.19	29.75	46.00	-16.25	Peak	VERTICAL
5	800.18	35.54	-2.20	33.34	46.00	-12.66	Peak	VERTICAL
6	958.29	35.01	0.47	35.48	46.00	-10.52	Peak	VERTICAL
1	96.93	44.80	-17.78	27.02	43.50	-16.48	Peak	HORIZONTAL
2	200.72	39.40	-15.23	24.17	43.50	-19.33	Peak	HORIZONTAL
3	294.81	38.38	-11.23	27.15	46.00	-18.85	Peak	HORIZONTAL
4	442.25	37.48	-7.99	29.49	46.00	-16.51	Peak	HORIZONTAL
5	716.76	37.77	-3.65	34.12	46.00	-11.88	Peak	HORIZONTAL
6	960.23	32.67	0.49	33.16	54.00	-20.84	Peak	HORIZONTAL

Remark:

- 1 Measuring frequencies from the lowest internal frequency to the 10th of fundamental frequency
- 2 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 3 “F” denotes fundamental frequency; “H” denotes harmonics frequency. “S” denotes spurious frequency.
- 4 Measurement of data within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 6 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode: Z-wave TX mode Test Date: 2014/12/11
Fundamental Frequency: 908.4 MHz Test By: Lake
Temp: 25 °C Hum.: 60%

No	Freq MHz	Reading dBuV	Factor dB	Level dBuV/m	Limit dBuV/m	Over Limit dB	Remark	Pol V/H
1	1816.80	65.37	-13.09	52.28	74.00	-21.72	Peak	VERTICAL
2	2725.20	56.62	-9.78	46.84	74.00	-27.16	Peak	VERTICAL
4	3633.60	---						VERTICAL
5	4542.00	---						VERTICAL
1	1816.80	65.29	-13.09	52.20	74.00	-21.80	Peak	HORIZONTAL
2	2725.20	54.21	-9.78	44.43	74.00	-29.57	Peak	HORIZONTAL
4	3633.60	---						HORIZONTAL
5	4542.00	---						HORIZONTAL

Remark:

- 1 Measuring frequencies from the lowest internal frequency to the 10th of fundamental frequency
- 2 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 3 “F” denotes fundamental frequency; “H” denotes harmonics frequency. “S” denotes spurious frequency.
- 4 Measurement of data within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 6 Spectrum AV mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 10MHz.

Radiated Spurious Emission Measurement Result (Band Edge)

Operation Mode	Z-wave TX mode	Test Date	2014/12/11
Fundamental Frequency	908.4MHz	Test By	Dino
Temperature	25 °C	Humidity	60 %

No	Freq MHz	Reading dBuV	Factor dB	Level dBuV/m	Limit dBuV/m	Over Limit dB	Remark	Pol V/H
1	902.00	24.09	-0.47	23.62	46.00	-22.38	Peak	VERTICAL
1	902.00	23.93	-0.47	23.46	46.00	-22.54	Peak	HORIZONTAL

No	Freq MHz	Reading dBuV	Factor dB	Level dBuV/m	Limit dBuV/m	Over Limit dB	Remark	Pol V/H
1	928.00	24.94	-0.02	24.92	46.00	-21.08	Peak	VERTICAL
1	928.00	23.18	-0.02	23.16	46.00	-22.84	Peak	HORIZONTAL

Remark:

- 1 Measuring frequencies from the lowest internal frequency to the 10th of fundamental frequency
- 2 Field strength limits for frequency above 1000MHz are based on average limits.
However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 3 Measurement of data within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 5 Spectrum AV mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 10MHz.

6. 20 dB Band Width Measurement

6.1 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set ETU normal operating mode.
3. Set SPA Center Frequency = fundamental frequency, RBW = 100kHz, VBW = 300kHz, Span = 2MHz.
4. Set SPA Max hold. Mark peak, -20dB.

6.2 Test SET-UP (Block Diagram of Configuration)

Same as 4.2 Radiated Emission Measurement.

6.3 Measurement Equipment Used:

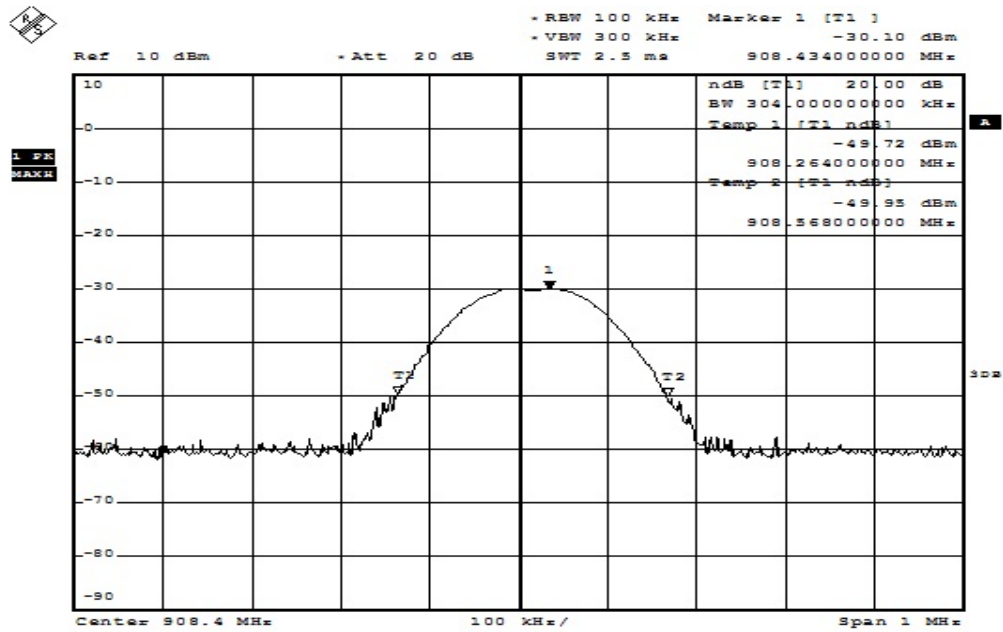
Same as 4.2 Radiated Emission Measurement.

6.4 Measurement Results:

908.4 Channel = 0.304 MHz

Refer to attached data chart.

20dB Band Width test Plot



Date: 10.DEC.2014 14:59:01