

# **FCC TEST REPORT**

**REPORT NO.:** RF140326C05A-7

**MODEL NO.:** F-06F

FCC ID: VQK-F06F2

**RECEIVED:** Mar. 26, 2014

**TESTED:** Apr. 29 ~ May 07, 2014

**ISSUED:** May 21, 2015

**APPLICANT:** FUJITSU LIMITED

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**ISSUED BY:** Bureau Veritas Consumer Products Services

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(R.O.C.)

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# **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF140326C05A-7	Original release	May 21, 2015

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# 1. CERTIFICATION

**PRODUCT:** Smart Phone

MODEL NO.: F-06F

**BRAND: FUJITSU** 

**APPLICANT:** FUJITSU LIMITED

**TESTED:** Apr. 29 ~ May 07, 2014

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: FCC Part 15, Subpart C (Section 15.247)

ANSI C63.10-2009

The above equipment (model: F-06F) has been tested by Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Celine Chou / Specialist , DATE :

**, DATE**: May 21, 2015

Ken Liu / Senior Manager



# 2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APF	APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247)							
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK					
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -15.20dB at 0.45097MHz.					
15.205 & 209	Radiated Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -5.5dB at 2483.50MHz.					
15.247(d)	15.247(d) Band Edge Measurement		Meet the requirement of limit. Minimum passing margin is -5.5dB at 2483.50MHz.					
15.247(d)	Antenna Port Emission	PASS	Meet the requirement of limit.					
15.247(a)(2)	6dB bandwidth	PASS	Meet the requirement of limit.					
15.247(b)	15.247(b) Conducted power		Meet the requirement of limit.					
15.247(e)	Power Spectral Density	PASS	Meet the requirement of limit.					
15.203	Antenna Requirement	PASS	No antenna connector is used.					

#### 2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	150kHz~30MHz	2.44 dB
	30MHz ~ 200MHz	2.93 dB
Dadiated emissions	200MHz ~1000MHz	2.95 dB
Radiated emissions	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

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



# 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

EUT	Smart Phone
MODEL NO.	F-06F
POWER SUPPLY	3.8Vdc (Battery) 5.0Vdc (Adapter or cradle or host equipment)
MODULATION TYPE	GFSK
TRANSFER RATE	1Mbps
OPERATING FREQUENCY	2402 ~ 2480MHz
NUMBER OF CHANNEL	40
CHANNEL SPACING	2MHz
OUTPUT POWER	1.820mW
ANTENNA TYPE	λ/4 Monopole antenna with -4.3dBi gain
ANTENNA CONNECTOR	N/A
I/O PORTS	Refer to user's manual
DATA CABLE	N/A
ACCESSORY DEVICES	Refer to Note as below

#### NOTE:

1. The EUT contains the following accessories.

No.	lo. Product Brand		Model	Description
1	Battery	NTT docomo	F30	3.8Vdc, 2100mA , 8.0Wh Type: Li-on
2	Cradle	NTT docomo	F46	Input : 5.0Vdc, 1.5A Output : 5.0Vdc, 1.5A

- 2. SW version is R06.2e.
- 3. HW version is V2.1.0.
- 4. IMEI Code: 352295060015393 and 352295060013901.
- 5. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.



# 3.2 DESCRIPTION OF TEST MODES

40 channels are provided to this EUT:

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



#### 3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE		APPLICA	ABLE TO		DESCRIPTION
MODE	RE≥1G	RE<1G	PLC	APCM	DESCRIPTION
А	$\checkmark$	$\checkmark$	<b>V</b>	$\checkmark$	Powered by adapter
В	-	<b>V</b>	V	-	Powered by cradle

Where

**RE≥1G:** Radiated Emission above 1GHz

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

**APCM:** Antenna Port Conducted Measurement

#### NOTE:

- 1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane**.
- 2. "-"means no effect.

#### **RADIATED EMISSION TEST (ABOVE 1GHz):**

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	DATA RATE (Mbps)
Α	0 to 39	0, 19, 39	GFSK	1.0

#### **RADIATED EMISSION TEST (BELOW 1GHz):**

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	DATA RATE (Mbps)
A & B	0 to 39	19	GFSK	1.0

#### **POWER LINE CONDUCTED EMISSION TEST:**

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	DATA RATE (Mbps)
A & B	0 to 39	19	GFSK	1.0

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#### **ANTENNA PORT CONDUCTED MEASUREMENT:**

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	DATA RATE (Mbps)
А	0 to 39	0, 19, 39	GFSK	1.0

#### **TEST CONDITION:**

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (SYSTEM)	TESTED BY
RE≥1G	25deg. C, 65%RH	120Vac, 60Hz	Ted Chang
RE<1G	25deg. C, 65%RH	120Vac, 60Hz	Ted Chang
PLC	25deg. C, 65%RH	120Vac, 60Hz	Ted Chang
APCM	25deg. C, 60%RH	120Vac, 60Hz	Cedric Wu



#### 3.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	ADAPTER	NTT docomo	AC Adapter 04	NA	NA

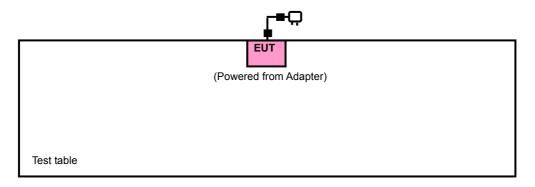
NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA

#### NOTE:

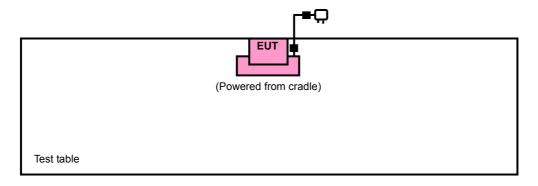
- 1. All power cords of the above support units are non shielded (1.8m).
- 2. Item 1 was provided by the client
- 3. 1.05m DC cable with 2 cores attached on adapter.

#### 3.3.1 CONFIGURATION OF SYSTEM UNDER TEST

#### **TEST MODE A**



#### **TEST MODE B**



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Reference No.: 140326C05, 150518C09



#### 3.4 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C (15.247) 558074 D01 DTS Meas Guidance v03r02 ANSI C63.10-2009

All test items have been performed and recorded as per the above standards.

**NOTE:** The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.



#### 4. TEST TYPES AND RESULTS

#### 4.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

#### 4.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

#### NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, 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.



#### 4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCS30	100289	Nov. 29, 2013	Nov. 28, 2014
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	Feb. 11, 2014	Feb. 10, 2015
BILOG Antenna SCHWARZBECK	VULB9168	9168-156	Feb. 25, 2014	Feb. 24, 2015
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-209	Sep. 12, 2013	Sep. 11, 2014
HORN Antenna SCHWARZBECK	BBHA 9170	148	Jul. 15, 2013	Jul. 14, 2014
Preamplifier Agilent	8449B	3008A01911	Aug. 22, 2013	Aug. 21, 2014
Preamplifier Agilent	8447D	2944A10638	Oct. 18, 2013	Oct. 17, 2014
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	248780/4 309222/4 274092/4	Aug. 26, 2013	Aug. 25, 2014
RF signal cable Worken	5D-FB	Cable-HYCH9-01	Aug. 11, 2013	Aug. 10, 2014
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower &Turn Table Controller EMCO	2090	NA	NA	NA
High Speed Peak Power Meter	ML2495A	0824011	Jul. 29, 2013	Jul. 28, 2014
Power Sensor	MA2411B	0738171	Jul. 29, 2013	Jul. 28, 2014

- **NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
  - 2. The test was performed in HwaYa Chamber 9.
  - 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
  - 4. The FCC Site Registration No. is 215374.
  - 5. The IC Site Registration No. is IC 7450F-9.



#### 4.1.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

#### NOTE:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T(Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.

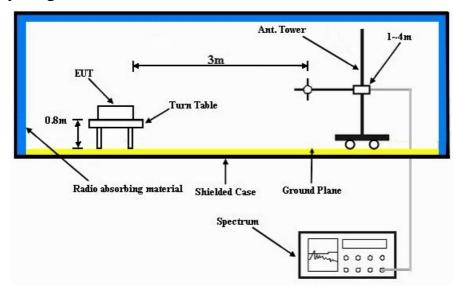
#### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation.

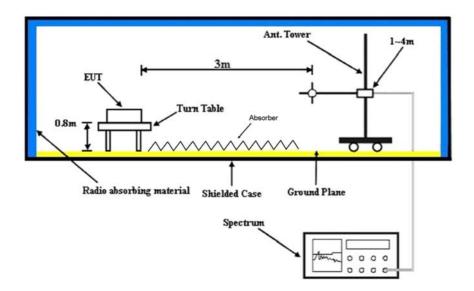


#### 4.1.5 TEST SETUP

# Frequency range 30MHz~1GHz



# Frequency range above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).



#### 4.1.6 EUT OPERATING CONDITIONS

#### **Test Mode A**

Set the EUT under transmission condition continuously at specific channel frequency.

#### **Test Mode B**

- a. Plugged the EUT into the cradle and placed them on the test table.
- b. Set the EUT under transmission condition continuously at specific channel frequency.



#### 4.1.7 TEST RESULTS

#### **ABOVE 1GHz DATA:**

EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 0	FREQUENCY RANGE	1 ~ 25GHz	
INPUT POWER (SYSTEM)	120Vac, 60Hz		Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang	

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.0 PK	74.0	-15.0	1.08 H	170	26.70	32.30
2	2390.00	47.6 AV	54.0	-6.4	1.08 H	170	15.30	32.30
3	*2402.00	88.9 PK			1.08 H	170	56.50	32.40
4	*2402.00	87.3 AV			1.08 H	170	54.90	32.40
5	4804.00	48.4 PK	74.0	-25.6	1.02 H	51	46.50	1.90
6	4804.00	34.2 AV	54.0	-19.8	1.02 H	51	32.30	1.90
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.1 PK	74.0	-14.9	1.00 V	342	26.80	32.30
2	2390.00	47.6 AV	54.0	-6.4	1.00 V	342	15.30	32.30
3	*2402.00	80.3 PK			1.00 V	342	47.90	32.40
4	*2402.00	78.6 AV			1.00 V	342	46.20	32.40
5	4804.00	46.1 PK	74.0	-27.9	1.05 V	224	44.20	1.90
6	4804.00	34.4 AV	54.0	-19.6	1.05 V	224	32.50	1.90

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
  - Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " \* ": Fundamental frequency.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 19	FREQUENCY RANGE	1 ~ 25GHz	
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang	

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2440.00	91.3 PK			1.34 H	172	58.80	32.50
2	*2440.00	89.7 AV			1.34 H	172	57.20	32.50
3	4880.00	46.9 PK	74.0	-27.1	1.05 H	4	44.90	2.00
4	4880.00	33.3 AV	54.0	-20.7	1.05 H	4	31.30	2.00
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2440.00	82.1 PK			1.00 V	147	49.60	32.50
	*2440.00	00.2.4\/			1.00 V	147	47.80	32.50
2	2440.00	80.3 AV			1.00 V		17.00	02.00
3	4880.00	46.2 PK	74.0	-27.8	1.03 V	324	44.20	2.00

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
  - Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " \* ": Fundamental frequency.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 39	FREQUENCY RANGE	1 ~ 25GHz	
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang	

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	*2480.00	89.4 PK			1.07 H	187	56.70	32.70	
2	*2480.00	87.7 AV			1.07 H	187	55.00	32.70	
3	2483.50	60.3 PK	74.0	-13.7	1.07 H	187	27.50	32.80	
4	2483.50	48.5 AV	54.0	-5.5	1.07 H	187	15.70	32.80	
5	4960.00	46.7 PK	74.0	-27.3	1.51 H	201	44.60	2.10	
6	4960.00	34.6 AV	54.0	-19.4	1.51 H	201	32.50	2.10	
		ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
<b>NO</b> .	•	EMISSION LEVEL			HEIGHT	ANGLE	VALUE	FACTOR	
	(MHz)	EMISSION LEVEL (dBuV/m)			HEIGHT (m)	ANGLE (Degree)	VALUE (dBuV)	FACTOR (dB/m)	
1	(MHz) *2480.00	EMISSION LEVEL (dBuV/m) 81.4 PK			HEIGHT (m)	ANGLE (Degree)	VALUE (dBuV) 48.70	FACTOR (dB/m) 32.70	
1 2	(MHz) *2480.00 *2480.00	EMISSION LEVEL (dBuV/m) 81.4 PK 79.9 AV	(dBuV/m)	(dB)	HEIGHT (m) 1.60 V 1.60 V	ANGLE (Degree) 336 336	VALUE (dBuV) 48.70 47.20	FACTOR (dB/m) 32.70 32.70	
1 2 3	*2480.00 *2480.00 2483.50	EMISSION LEVEL (dBuV/m) 81.4 PK 79.9 AV 60.0 PK	(dBuV/m) 74.0	(dB) -14.0	HEIGHT (m)  1.60 V  1.60 V  1.60 V	ANGLE (Degree)  336  336  336	VALUE (dBuV) 48.70 47.20 27.20	FACTOR (dB/m) 32.70 32.70 32.80	

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
  - Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " \* ": Fundamental frequency.



#### **BELOW 1GHz WORST-CASE DATA:**

EUT TEST CONDITION		MEASUREMENT DETAIL			
CHANNEL Channel 19		FREQUENCY RANGE	Below 1000MHz		
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak		
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang		
TEST MODE	A				

		ANTENNA	POLARITY &	& TEST DIS	TANCE: HO	RIZONTAL	AT 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	50.21	18.8 QP	40.0	-21.2	1.00 H	12	32.70	-13.90
2	191.67	24.5 QP	43.5	-19.0	1.49 H	92	40.60	-16.10
3	284.94	21.9 QP	46.0	-24.1	1.24 H	322	34.50	-12.60
4	460.59	23.7 QP	46.0	-22.3	1.24 H	193	32.50	-8.80
5	637.80	26.7 QP	46.0	-19.3	1.99 H	127	32.20	-5.50
6	807.24	28.2 QP	46.0	-17.8	1.49 H	18	30.80	-2.60
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	37.77	26.7 QP	40.0	-13.3	1.24 V	83	42.00	-15.30
2	57.98	21.7 QP	40.0	-18.3	1.49 V	4	36.10	-14.40
3	194.78	20.9 QP	43.5	-22.6	1.00 V	21	37.10	-16.20
4	427.95	21.7 QP	46.0	-24.3	1.24 V	14	31.10	-9.40
5	547.64	24.2 QP	46.0	-21.8	1.00 V	21	31.90	-7.70
6	769.94	28.1 QP	46.0	-17.9	1.00 V	207	31.20	-3.10

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
  - Pre-Amplifier Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL Channel 19		FREQUENCY RANGE	Below 1000MHz	
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang	
TEST MODE	В			

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	AT 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	51.76	22.0 QP	40.0	-18.0	1.24 H	11	35.80	-13.80
2	157.47	24.8 QP	43.5	-18.7	1.24 H	267	38.50	-13.70
3	222.76	21.7 QP	46.0	-24.3	1.00 H	7	38.00	-16.30
4	336.23	22.9 QP	46.0	-23.1	1.75 H	7	34.30	-11.40
5	435.72	23.2 QP	46.0	-22.8	1.24 H	109	32.30	-9.10
6	605.16	25.4 QP	46.0	-20.6	1.50 H	332	31.50	-6.10
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	30.00	29.4 QP	40.0	-10.6	1.75 V	234	45.20	-15.80
2	71.97	26.0 QP	40.0	-14.0	1.50 V	189	42.50	-16.50
3	165.24	24.6 QP	43.5	-18.9	1.75 V	260	38.40	-13.80
4	235.19	26.4 QP	46.0	-19.6	1.50 V	208	41.40	-15.00
5	516.55	24.8 QP	46.0	-21.2	1.00 V	7	32.80	-8.00
6	583.40	26.2 QP	46.0	-19.8	1.25 V	189	32.80	-6.60

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
  - Pre-Amplifier Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value



#### 4.2 CONDUCTED EMISSION MEASUREMENT

#### 4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED	LIMIT (dBµV)
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

**NOTE**: 1. The lower limit shall apply at the transition frequencies.

- 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
- All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

#### 4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCS30	100289	Nov. 29, 2013	Nov. 28, 2014
RF signal cable Woken	5D-FB	Cable-HYC01-01	Dec. 27, 2013	Dec. 26, 2014
LISN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Feb. 13, 2014	Feb. 12, 2015
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Jul. 17, 2013	Jul. 16, 2014
Software ADT	BV ADT_Cond_ V7.3.7.3	NA	NA	NA

**NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The test was performed in HwaYa Shielded Room 1.
- 3. The VCCI Site Registration No. is C-2040.



#### 4.2.3 TEST PROCEDURES

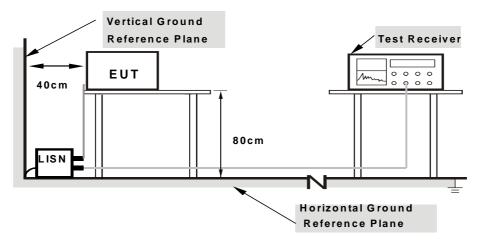
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit 20dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

#### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.2.5 TEST SETUP



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

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

For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6.



#### 4.2.7 TEST RESULTS

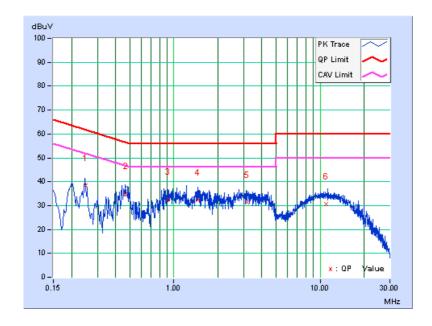
#### **CONDUCTED WORST-CASE DATA:**

PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	A		

No	Freq. Corr.		Reading Value			Emission Level		Limit		Margin	
NO	No Facto	ractor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(dl	3)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.24796	0.09	38.39	32.37	38.48	32.46	61.83	51.83	-23.34	-19.36	
2	0.46792	0.12	34.88	25.71	35.00	25.83	56.55	46.55	-21.55	-20.72	
3	0.90655	0.19	32.39	23.33	32.58	23.52	56.00	46.00	-23.42	-22.48	
4	1.45287	0.23	32.06	23.41	32.29	23.64	56.00	46.00	-23.71	-22.36	
5	3.15251	0.26	31.22	21.43	31.48	21.69	56.00	46.00	-24.52	-24.31	
6	10.92987	0.60	30.12	24.34	30.72	24.94	60.00	50.00	-29.28	-25.06	

#### **REMARKS:**

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value

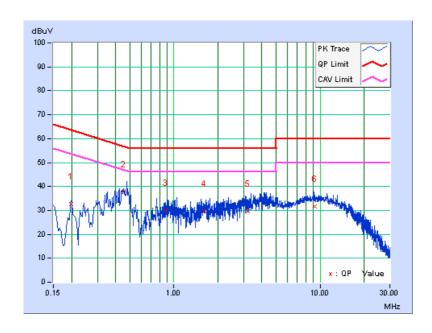




PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	A		

No	Freq.	eq. Corr.		Reading Value		Emission Level		Limit		Margin	
NO		Factor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(dl	B)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.19717	0.09	32.53	27.53	32.62	27.62	63.73	53.73	-31.11	-26.11	
2	0.45097	0.17	37.63	31.48	37.80	31.65	56.86	46.86	-19.05	-15.20	
3	0.87335	0.21	29.69	21.86	29.90	22.07	56.00	46.00	-26.10	-23.93	
4	1.60452	0.22	29.39	20.85	29.61	21.07	56.00	46.00	-26.39	-24.93	
5	3.20275	0.24	29.47	21.53	29.71	21.77	56.00	46.00	-26.29	-24.23	
6	9.14691	0.50	31.04	26.19	31.54	26.69	60.00	50.00	-28.46	-23.31	

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value

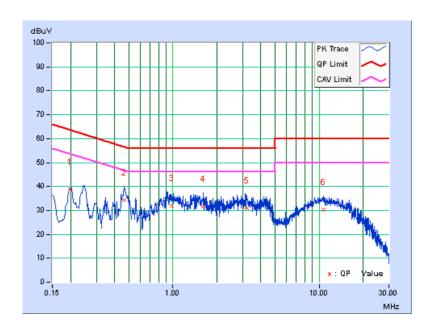




PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	В		

No	Freq. Corr. Factor		Reading Value		Emission Level		Limit		Margin	
NO			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19717	0.09	38.49	33.33	38.58	33.42	63.73	53.73	-25.15	-20.31
2	0.46179	0.12	34.06	25.24	34.18	25.36	56.66	46.66	-22.48	-21.30
3	0.97892	0.21	31.81	23.65	32.02	23.86	56.00	46.00	-23.98	-22.14
4	1.60587	0.23	31.40	22.91	31.63	23.14	56.00	46.00	-24.37	-22.86
5	3.19198	0.26	30.62	20.98	30.88	21.24	56.00	46.00	-25.12	-24.76
6	10.66790	0.59	29.68	24.05	30.27	24.64	60.00	50.00	-29.73	-25.36

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value

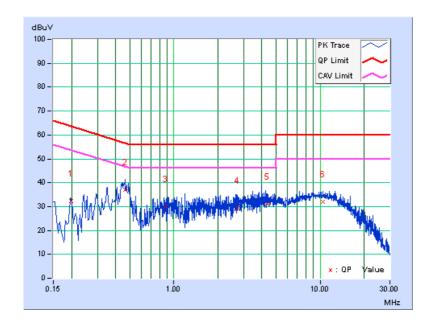




PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	В		

Na	Freq.	Corr. Factor	Readin	g Value		ssion vel	Limit		Margin	
No		ractor	or [dB (uV)]		[dB	(uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19717	0.09	32.15	27.02	32.24	27.11	63.73	53.73	-31.49	-26.62
2	0.46179	0.18	36.70	30.34	36.88	30.52	56.66	46.66	-19.79	-16.15
3	0.87335	0.21	29.60	21.60	29.81	21.81	56.00	46.00	-26.19	-24.19
4	2.71288	0.23	29.10	20.64	29.33	20.87	56.00	46.00	-26.67	-25.13
5	4.33630	0.28	30.75	22.88	31.03	23.16	56.00	46.00	-24.97	-22.84
6	10.38638	0.56	31.38	25.97	31.94	26.53	60.00	50.00	-28.06	-23.47

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value



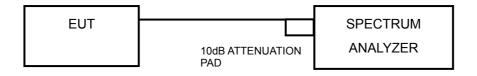


#### 4.3 6dB BANDWIDTH MEASUREMENT

#### 4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

#### 4.3.2 TEST SETUP



#### 4.3.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

#### 4.3.4 TEST PROCEDURE

- 1. Set resolution bandwidth (RBW) = 100kHz
- 2. Set the video bandwidth (VBW)  $\geq$  3 x RBW, Detector = Peak.
- 3. Trace mode = max hold.
- 4. Sweep = auto couple.
- 5. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### 4.3.5 DEVIATION FROM TEST STANDARD

No deviation.

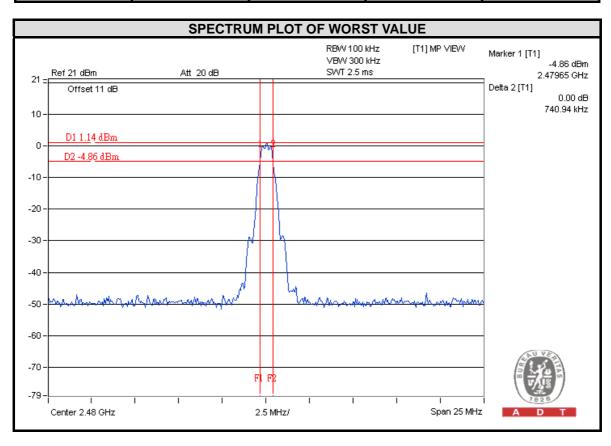
#### 4.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



#### 4.3.7 TEST RESULTS

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	0.733	0.5	PASS
19	2440	0.740	0.5	PASS
39	2480	0.741	0.5	PASS



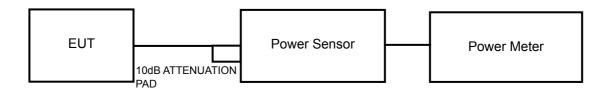


#### 4.4 CONDUCTED OUTPUT POWER

#### 4.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

For systems using digital modulation in the 2400–2483.5 MHz: 1 Watt (30dBm)

#### 4.4.2 TEST SETUP



#### 4.4.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

#### 4.4.4 TEST PROCEDURES

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the peak power level.

#### 4.4.5 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6.

#### 4.4.7 TEST RESULTS

CHANNEL	FREQUENCY (MHz)	PEAK POWER (mW)	PEAK POWER (dBm)	LIMIT (dBm)	PASS/FAIL
0	2402	1.592	2.02	30	PASS
19	2440	1.820	2.60	30	PASS
39	2480	1.146	0.59	30	PASS

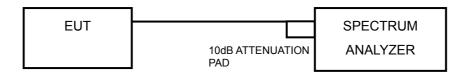


#### 4.5 POWER SPECTRAL DENSITY MEASUREMENT

#### 4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

#### 4.5.2 TEST SETUP



#### 4.5.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

#### 4.5.4 TEST PROCEDURE

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
- d) Set the VBW  $\geq$  3 × RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.

#### 4.5.5 DEVIATION FROM TEST STANDARD

No deviation.

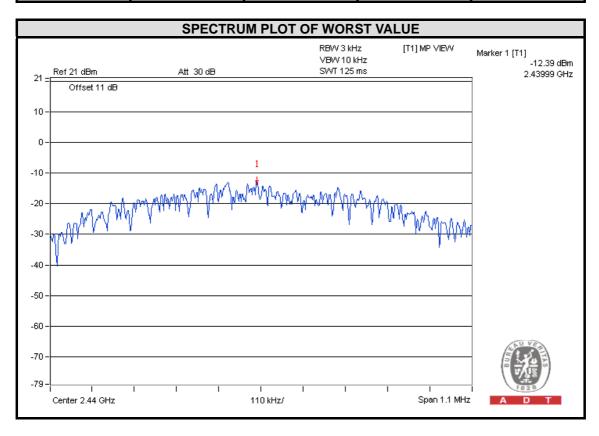
#### 4.5.6 EUT OPERATING CONDITION

Same as Item 4.3.6



#### 4.5.7 TEST RESULTS

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	2402	-12.91	8	PASS
19	2440	-12.39	8	PASS
39	2480	-14.36	8	PASS





### CONDUCTED OUT OF BAND EMISSION MEASUREMENT

#### 4.6.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

#### 4.6.2 TEST SETUP



#### 4.6.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

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#### 4.6.4 TEST PROCEDURE

#### **MEASUREMENT PROCEDURE REF**

- 1. Set the RBW = 100 kHz.
- 2. Set the VBW  $\geq$  300 kHz.
- 3. Detector = peak.
- 4. Sweep time = auto couple.
- 5. Trace mode = max hold.
- 6. Allow trace to fully stabilize.
- 7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

#### **MEASUREMENT PROCEDURE OOBE**

- 1. Set RBW = 100 kHz.
- 2. Set VBW ≥ 300 kHz.
- 3. Detector = peak.
- 4. Sweep = auto couple.
- 5. Trace Mode = max hold.
- 6. Allow trace to fully stabilize.
- 7. Use the peak marker function to determine the maximum amplitude level.

#### 4.6.5 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.6.6 EUT OPERATING CONDITION

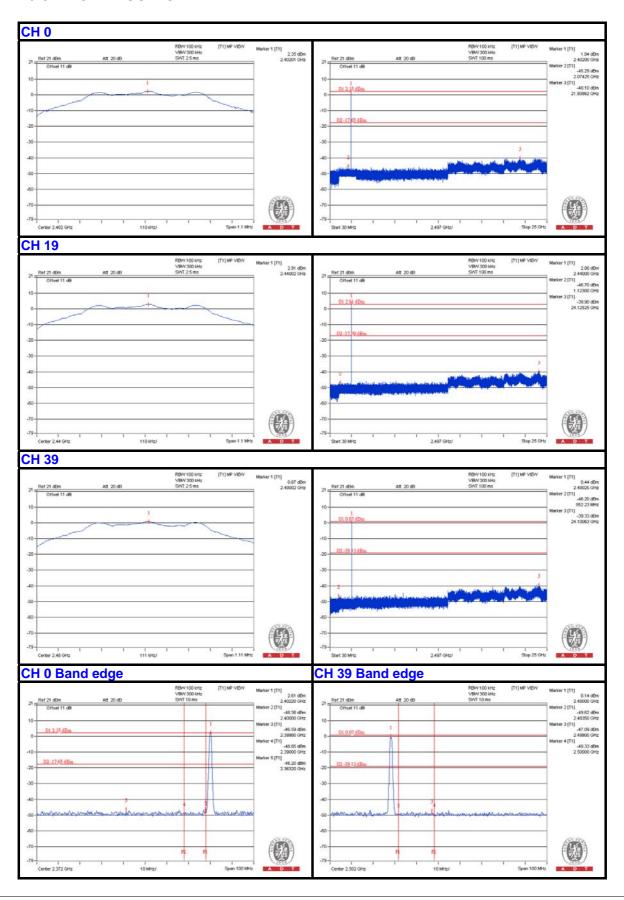
Same as Item 4.3.6

#### 4.6.7 TEST RESULTS

The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.



#### 4.6.8 TEST RESULTS





5. PHOTOGRAPHS OF THE TEST CONFIGURATION
Please refer to the attached file (Test Setup Photo).



# 6. INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab: Hsin Chu EMC/RF/Telecom Lab:

Tel: 886-2-26052180 Tel: 886-3-5935343 Fax: 886-2-26051924 Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Lab:

Tel: 886-3-3183232 Fax: 886-3-3270892

Email: <a href="mailto:service.adt@tw.bureauveritas.com">service.adt@tw.bureauveritas.com</a>
Web Site: <a href="mailto:www.bureauveritas-adt.com">www.bureauveritas-adt.com</a>

The address and road map of all our labs can be found in our web site also.

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# 7. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

--- END ---