

FCC TEST REPORT (BLUETOOTH LE)

REPORT NO.: RF140630C01-4

MODEL NO.: F-02G

FCC ID: VQK-F02G

RECEIVED: Aug. 05, 2014

TESTED: Aug. 21 ~ Sep. 10, 2014

ISSUED: Sep. 12, 2014

APPLICANT: FUJITSU LIMITED

ADDRESS: 1-1, Kamikodanaka 4-chome, Nakahara-ku,

Kawasaki 211-8588, Japan

ISSUED BY: Bureau Veritas Consumer Products Services

(H.K.) Ltd., Taoyuan Branch

LAB ADDRESS: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist.,

New Taipei City, Taiwan, R.O.C.

TEST LOCATION: No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei

Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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Report No.: RF140630C01-4 1 of 40 Report Format Version 5.1.0



Table of Contents

RELE	ASE CONTROL RECORD	4
1.	CERTIFICATION	5
2.	SUMMARY OF TEST RESULTS	6
2.1	MEASUREMENT UNCERTAINTY	
3.	GENERAL INFORMATION	
3.1	GENERAL DESCRIPTION OF EUT	
3.2	DESCRIPTION OF TEST MODES	
3.2.1	TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL	
3.3	DESCRIPTION OF SUPPORT UNITS	
3.3.1	CONFIGURATION OF SYSTEM UNDER TEST	11
3.4	GENERAL DESCRIPTION OF APPLIED STANDARDS	
-		
4.	TEST TYPES AND RESULTSRADIATED EMISSION AND BANDEDGE MEASUREMENT	13
4.1		
4.1.1	LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT	
4.1.2	TEST INSTRUMENTS	
4.1.3	TEST PROCEDURES	
4.1.4	DEVIATION FROM TEST STANDARD	15
4.1.5	TEST SETUP	
4.1.6	EUT OPERATING CONDITIONS	
4.1.7	TEST RESULTS	18
4.2	CONDUCTED EMISSION MEASUREMENT	23
4.2.1	LIMITS OF CONDUCTED EMISSION MEASUREMENT	23
4.2.2	TEST INSTRUMENTS	23
4.2.3	TEST PROCEDURES	
4.2.4	DEVIATION FROM TEST STANDARD	
4.2.5	TEST SETUP	
4.2.6	EUT OPERATING CONDITIONS	25
4.2.7	TEST RESULTS	
4.3	6dB BANDWIDTH MEASUREMENT	30
4.3.1	LIMITS OF 6dB BANDWIDTH MEASUREMENT	
4.3.1	TEST SETUP	
4.3.2		
	TEST INSTRUMENTS	
4.3.4	TEST PROCEDURE	
4.3.5	DEVIATION FROM TEST STANDARD	
4.3.6	EUT OPERATING CONDITIONS	
	TEST RESULTS	
4.4	CONDUCTED OUTPUT POWER	32
	LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT	
	TEST SETUP	
4.4.3	TEST INSTRUMENTS	32
	TEST PROCEDURES	
4.4.5	DEVIATION FROM TEST STANDARD	32
4.4.6	EUT OPERATING CONDITIONS	32
4.4.7	TEST RESULTS	32
4.5	POWER SPECTRAL DENSITY MEASUREMENT	33
	LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT	
	TEST SETUP	
	TEST INSTRUMENTS	
₹.0.0	TEOT ITO ITO ITO ITO ITO ITO ITO ITO ITO I	55



4.5.4	TEST PROCEDURE	.33
4.5.5	DEVIATION FROM TEST STANDARD	33
4.5.6	EUT OPERATING CONDITION	.33
4.5.7	TEST RESULTS	.34
4.6	CONDUCTED OUT OF BAND EMISSION MEASUREMENT	35
4.6.1	LIMITS OF OUT OF BAND EMISSION MEASUREMENT	35
4.6.2	TEST SETUP	35
4.6.3	TEST INSTRUMENTS	35
4.6.4	TEST PROCEDURE	36
4.6.5	DEVIATION FROM TEST STANDARD	36
4.6.6	EUT OPERATING CONDITION	
4.6.7	TEST RESULTS	
4.6.8	TEST RESULTS	.37
5.	PHOTOGRAPHS OF THE TEST CONFIGURATION	38
6.	INFORMATION ON THE TESTING LABORATORIES	39
7.	APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES	
	TO THE EUT BY THE LAB	40



RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF140630C01-4	Original release	Sep. 12, 2014

Report No.: RF140630C01-4 4 of 40 Report Format Version 5.1.0



1. CERTIFICATION

PRODUCT: Smart Phone

MODEL NO.: F-02G

BRAND: FUJITSU

APPLICANT: FUJITSU LIMITED

TESTED: Aug. 21 ~ Sep. 10, 2014

TEST SAMPLE: ENGINEERING SAMPLE

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

ANSI C63.10-2009

The above equipment (model: F-02G) 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.

PREPARED BY : Le line Chou , DATE: Sep. 12, 2014

Celine Chou / Specialist

APPROVED BY: , **DATE**: Sep. 12, 2014

Ken Liu / Senior Manager



2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

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 -3.09dB at 0.49279MHz.				
15.205 & 209	Radiated Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -3.2dB at 30.00MHz.				
15.247(d)	Band Edge Measurement	PASS	Meet the requirement of limit. Minimum passing margin is -18.0dB 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)	Conducted power	PASS	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	3.63 dB
Dadiated emissions	200MHz ~1000MHz	3.64 dB
Radiated emissions	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 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-02G
POWER SUPPLY	3.8Vdc (Battery) 5Vdc (Adapter or cradle when normal charging) 9Vdc (Adapter or cradle when quick charging)
MODULATION TYPE	GFSK
TRANSFER RATE	1Mbps
OPERATING FREQUENCY	2402 ~ 2480MHz
NUMBER OF CHANNEL	40
CHANNEL SPACING	2MHz
OUTPUT POWER	2.259mW
ANTENNA TYPE	λ/4 Monopole antenna with -6.2dBi gain
ANTENNA CONNECTOR	N/A
DATA CABLE	N/A
I/O PORTS	Refer to user's manual
ACCESSORY DEVICES	Refer to Note as below

NOTE:

1. The EUT contains the following accessories.

PRODUCT BRAND N		MODEL	DESCRIPTION		
Battery	ttery NTT docomo NA		3.8Vdc, 3500mA, 13.3Wh		
Cradle	Fujitsu Limited	F47	Input: 5.0Vdc, 1.5A 9.0Vdc, 1.5A Output: 5.0Vdc, 1.5A 9.0Vdc, 1.5A		

2. The following adapter is support unit only.

PRODUCT	BRAND	MODEL	DESCRIPTION
			Input: 100-240Vac, 0.12A, 50-60Hz, 0.4A
	NTT docomo	AC Adaptor 05	Output: 5.0Vdc, 1.5A
Adapter			9.0Vdc, 1.5A
			Power line:
			1.25m cable with two cores attached on adapter

- 3. SW version is R15Ae.
- 4. HW version is V2.1.0.
- 5. IMEI Code: 354014060011288.
- 6. 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:

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	APPLICABLE TO					
CONFIGURE MODE	RE≥1G	RE<1G	PLC	APCM	DESCRIPTION	
Α	√	√	√	√	Powered by adapter	
В	-	√	√	-	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

NOTF:

- 1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Y-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)
А	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	0	GFSK	1.0

POWER LINE CONDUCTED EMISSION:

- 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	0	GFSK	1.0

Report No.: RF140630C01-4 9 of 40 Report Format Version 5.1.0



ANTENNA PORT CONDUCTED MEASUREMENT:

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

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	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, 70%RH	120Vac, 60Hz	Jones Chang
APCM	25deg. C, 60%RH	120Vac, 60Hz	Antony Lee

Report No.: RF140630C01-4 10 of 40 Report Format Version 5.1.0



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 Adaptor 05	NA	NA

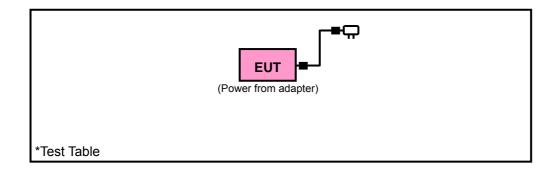
NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA

NOTE:

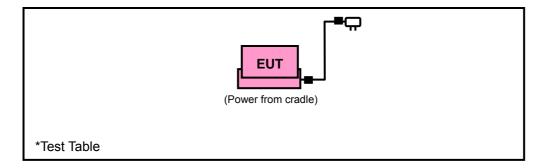
- 1. For item 1: 1.25m DC cable with 2 cores.
- 2. Item 1 is provided by the client.

3.3.1 CONFIGURATION OF SYSTEM UNDER TEST

TEST MODE A



TEST MODE B



Report No.: RF140630C01-4 11 of 40 Report Format Version 5.1.0



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	BBHA9170241	Feb. 17, 2014	Feb. 16, 2015
Preamplifier	8449B	3008A01911	Aug. 22, 2013	Aug. 21, 2014
Agilent	0449D	3006A01911	Aug. 22, 2014	Aug. 21, 2015
Preamplifier Agilent	8447D	2944A10638	Oct. 18, 2013	Oct. 17, 2014
RF signal cable	CHOOLIEV 404	248780/4	Aug. 26, 2013	Aug. 25, 2014
HUBER+SUHNNER	SUCOFLEX 104	309222/4 274092/4	Aug. 26, 2014	Aug. 25, 2015
RF signal cable Worken	5D-FB	Cable-HYCH9-01	Aug. 11, 2014	Aug. 10, 2015
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. 26, 2014	Jul. 25, 2015
Power Sensor	MA2411B	0738171	Jul. 26, 2014	Jul. 25, 2015

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.

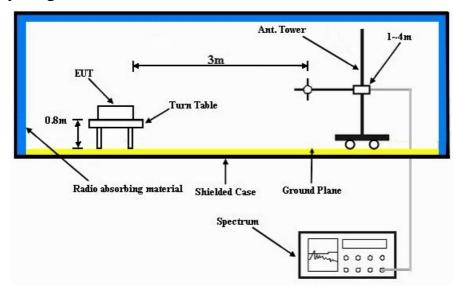
4.1.4 DEVIATION FROM TEST STANDARD

No deviation.

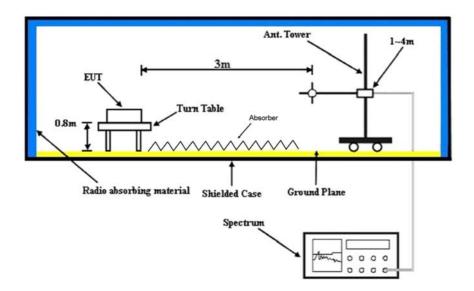


4.1.5 TEST SETUP

Frequency range 30MHz~1GHz



Frequency range above 1GHz



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

16 of 40



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	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	49.0 PK	74.0	-25.0	1.00 H	36	54.20	-5.20
2	2390.00	36.2 AV	54.0	-17.8	1.00 H	36	41.40	-5.20
3	*2402.00	89.8 PK			1.04 H	35	57.00	32.80
4	*2402.00	84.6 AV			1.04 H	35	51.80	32.80
5	4804.00	45.5 PK	74.0	-28.5	1.00 H	92	44.00	1.50
6	4804.00	32.4 AV	54.0	-21.6	1.00 H	92	30.90	1.50
		ANTENNA	POLARIT	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	EMISSION LIMIT ANTENNA TABLE RAW VALUE CORRECTIO							.,
1	2390.00	50.2 PK	74.0	-23.8	1.00 V	16	55.40	-5.20
2	2390.00	36.6 AV	54.0	-17.4	1.00 V	16	41.80	-5.20
3	*2402.00	79.3 PK			1.00 V	16	46.50	32.80
4	*2402.00	75.6 AV			1.00 V	16	42.80	32.80
5	4804.00	45.3 PK	74.0	-28.7	1.00 V	116	43.80	1.50
6	4804.00	31.9 AV	54.0	-22.1	1.00 V	116	30.40	1.50

- 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	1 ~ 25GHz	
INPUT POWER	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	91.0 PK			1.03 H	35	58.00	33.00
2	*2440.00	86.0 AV			1.03 H	35	53.00	33.00
3	4880.00	45.1 PK	74.0	-28.9	1.00 H	86	43.50	1.60
4	4880.00	31.0 AV	54.0	-23.0	1.00 H	86	29.40	1.60
		ANTENNA	A POLARITY	Y & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	NO. FREQ. (MHz) EMISSION LEVEL (dBuV/m) LIMIT (dBuV/m) MARGIN (dB) ANTENNA HEIGHT (m) TABLE ANGLE (Degree) RAW VALUE (dBuV) FACTOR (dB/m)							
1	*2440.00	83.2 PK			1.00 V	18	50.20	33.00
2	*2440.00	79.7 AV			1.00 V	18	46.70	33.00
	4880.00	44.5 PK	74.0	-29.5	1.00 V	102	42.90	1.60
3	4000.00	44.51 K	74.0	20.0	1.00 V	102	72.00	1.00

- 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



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

		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	*2480.00	92.2 PK			1.01 H	39	59.10	33.10
2	*2480.00	87.5 AV			1.01 H	39	54.40	33.10
3	2483.50	49.2 PK	74.0	-24.8	1.00 H	39	54.10	-4.90
4	2483.50	35.7 AV	54.0	-18.3	1.00 H	39	40.60	-4.90
5	4960.00	45.1 PK	74.0	-28.9	1.00 H	98	43.30	1.80
6	4960.00	31.4 AV	54.0	-22.6	1.00 H	98	29.60	1.80
		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	*2480.00	84.1 PK			1.14 V	12	51.00	33.10
2	*2480.00	79.7 AV			1.14 V	12	46.60	33.10
3	2483.50	49.9 PK	74.0	-24.1	1.14 V	12	54.80	-4.90
3	2483.50 2483.50	49.9 PK 36.0 AV	74.0 54.0	-24.1 -18.0	1.14 V 1.14 V	12 12	54.80 40.90	-4.90 -4.90
						·-		

- 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



BELOW 1GHz WORST-CASE DATA

EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 0	FREQUENCY RANGE	Below 1000MHz	
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang	
TEST MODE	A			

	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	33.10	24.6 QP	40.0	-15.4	1.00 H	108	35.24	-10.62
2	56.40	21.2 QP	40.0	-18.8	1.00 H	22	31.86	-10.62
3	81.30	24.1 QP	40.0	-15.9	1.00 H	55	34.72	-10.62
4	145.00	29.1 QP	43.5	-14.5	1.00 H	224	39.67	-10.62
5	219.60	25.4 QP	46.0	-20.6	1.00 H	301	36.04	-10.62
6	239.90	25.8 QP	46.0	-20.2	1.00 H	307	36.39	-10.62
		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	36.8 QP	40.0	-3.2	1.00 V	74	47.50	-10.70
2	61.10	30.2 QP	40.0	-9.8	1.00 V	281	40.90	-10.70
3	78.20	25.9 QP	40.0	-14.1	1.00 V	178	36.60	-10.70
4	98.40	22.4 QP	43.5	-21.1	1.00 V	5	33.10	-10.70
	30.40	22.7 Q1						
5	162.10	21.6 QP	43.5	-21.9	1.00 V	5	32.30	-10.70

- 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 0	FREQUENCY RANGE	Below 1000MHz	
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang	
TEST MODE	В			

	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	51.80	22.5 QP	40.0	-17.5	2.00 H	44	36.40	-13.90		
2	73.50	36.3 QP	40.0	-3.7	2.00 H	160	53.30	-17.00		
3	118.60	22.5 QP	43.5	-21.0	2.00 H	96	39.10	-16.60		
4	155.90	22.3 QP	43.5	-21.2	2.00 H	123	35.90	-13.60		
5	236.70	23.9 QP	46.0	-22.1	1.01 H	100	39.00	-15.10		
6	435.70	34.2 QP	46.0	-11.8	2.00 H	152	43.60	-9.40		
	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M			
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	/ & TEST DI	ANTFNNA	TABLE ANGLE (Degree)	T 3 M RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
NO .	FREQ. (MHz)	EMISSION LEVEL	LIMIT		ANTENNA	TABLE ANGLE	RAW VALUE	FACTOR		
	, ,	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	FACTOR (dB/m)		
1	33.10	EMISSION LEVEL (dBuV/m) 36.6 QP	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	FACTOR (dB/m) -16.10		
1 2	33.10 51.80	EMISSION LEVEL (dBuV/m) 36.6 QP 32.8 QP	LIMIT (dBuV/m) 40.0 40.0	-3.4 -7.2	ANTENNA HEIGHT (m) 1.00 V 1.00 V	TABLE ANGLE (Degree) 114	RAW VALUE (dBuV) 52.70 46.70	FACTOR (dB/m) -16.10 -13.90		
1 2 3	33.10 51.80 118.60	EMISSION LEVEL (dBuV/m) 36.6 QP 32.8 QP 19.8 QP	LIMIT (dBuV/m) 40.0 40.0 43.5	-3.4 -7.2 -23.7	ANTENNA HEIGHT (m) 1.00 V 1.00 V 1.00 V	TABLE ANGLE (Degree) 114 5 287	RAW VALUE (dBuV) 52.70 46.70 36.40	FACTOR (dB/m) -16.10 -13.90 -16.60		

- 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.
- 3. 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. 21, 2014	Jul. 20, 2015
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.

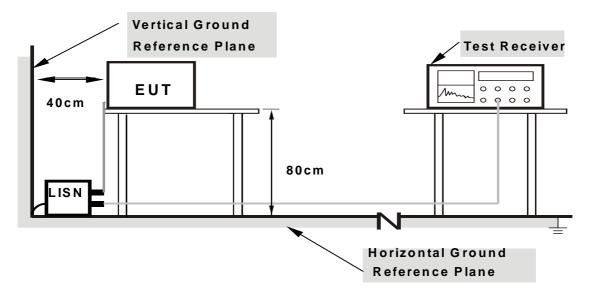
NOTE: All modes of operation were investigated and the worst-case emissions are reported.

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.



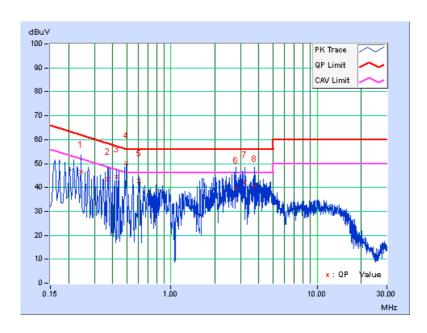
4.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA:

PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	A		

Na	Freq.	Corr.	Reading Value Emission Lim		Limit		Mar	gin		
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	0.24384	0.09	46.26	33.74	46.35	33.83	61.96	51.96	-15.61	-18.13
2	0.36896	0.11	43.28	28.96	43.39	29.07	58.52	48.52	-15.14	-19.46
3	0.42761	0.11	44.21	28.71	44.32	28.82	57.30	47.30	-12.97	-18.47
4	0.49279	0.13	49.95	42.91	50.08	43.04	56.12	46.12	-6.05	-3.09
5	0.60747	0.14	42.72	30.71	42.86	30.85	56.00	46.00	-13.14	-15.15
6	2.79316	0.25	39.36	30.04	39.61	30.29	56.00	46.00	-16.39	-15.71
7	3.21935	0.26	41.86	23.84	42.12	24.10	56.00	46.00	-13.88	-21.90
8	3.75111	0.26	40.19	23.77	40.45	24.03	56.00	46.00	-15.55	-21.97

- 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

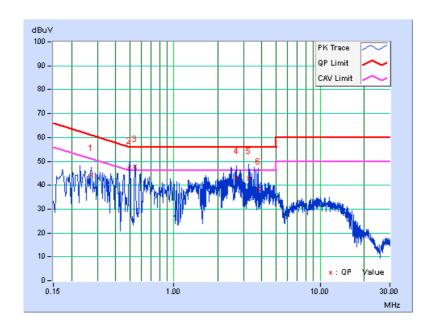




PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	A		

Na	Freq.	Corr. Factor	Readin	g Value		ssion vel	Lir	nit	Mar	gin
No		ractor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(dl	3)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.27120	0.12	44.04	30.09	44.16	30.21	61.08	51.08	-16.92	-20.87
2	0.49799	0.18	47.09	40.06	47.27	40.24	56.03	46.03	-8.77	-5.80
3	0.54349	0.18	47.60	41.56	47.78	41.74	56.00	46.00	-8.22	-4.26
4	2.69932	0.23	42.54	27.84	42.77	28.07	56.00	46.00	-13.23	-17.93
5	3.26627	0.25	42.51	27.00	42.76	27.25	56.00	46.00	-13.24	-18.75
6	3.77457	0.26	38.18	19.84	38.44	20.10	56.00	46.00	-17.56	-25.90

- 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

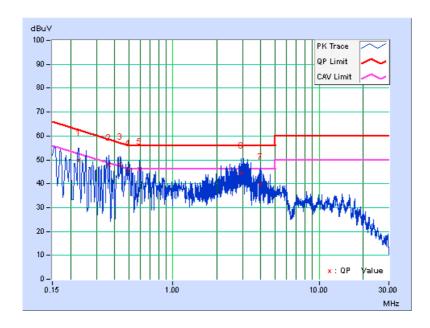




PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	В		

Na	Freq.	Freq. Corr.	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin	
No		Factor							(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.22672	0.09	49.65	37.54	49.74	37.63	62.57	52.57	-12.83	-14.94
2	0.36505	0.11	47.86	35.04	47.97	35.15	58.61	48.61	-10.65	-13.47
3	0.43579	0.12	48.10	36.89	48.22	37.01	57.14	47.14	-8.93	-10.14
4	0.49408	0.13	45.22	33.98	45.35	34.11	56.10	46.10	-10.75	-11.99
5	0.59183	0.14	45.96	32.08	46.10	32.22	56.00	46.00	-9.90	-13.78
6	2.93001	0.25	44.04	32.53	44.29	32.78	56.00	46.00	-11.71	-13.22
7	3.99744	0.26	39.61	27.35	39.87	27.61	56.00	46.00	-16.13	-18.39

- 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

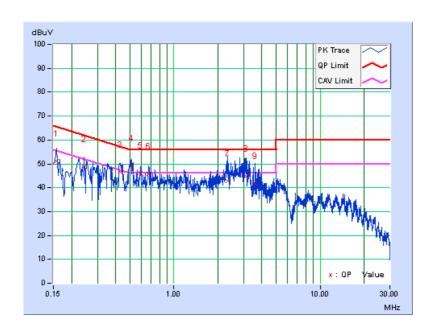




PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	В		

Na	Freq. Corr. Factor		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	0.15782	0.06	51.15	39.58	51.21	39.64	65.58	55.58	-14.37	-15.94
2	0.24384	0.11	48.62	36.21	48.73	36.32	61.96	51.96	-13.24	-15.65
3	0.43152	0.17	46.34	36.38	46.51	36.55	57.22	47.22	-10.71	-10.67
4	0.51754	0.18	49.01	36.04	49.19	36.22	56.00	46.00	-6.81	-9.78
5	0.58792	0.19	45.95	32.44	46.14	32.63	56.00	46.00	-9.86	-13.37
6	0.67311	0.19	45.45	33.33	45.64	33.52	56.00	46.00	-10.36	-12.48
7	2.34742	0.23	42.65	33.13	42.88	33.36	56.00	46.00	-13.12	-12.64
8	3.14115	0.24	44.51	34.30	44.75	34.54	56.00	46.00	-11.25	-11.46
9	3.59080	0.25	41.56	28.73	41.81	28.98	56.00	46.00	-14.19	-17.02

- 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



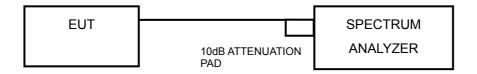


4.3 6dB BANDWIDTH MEASUREMENT

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.

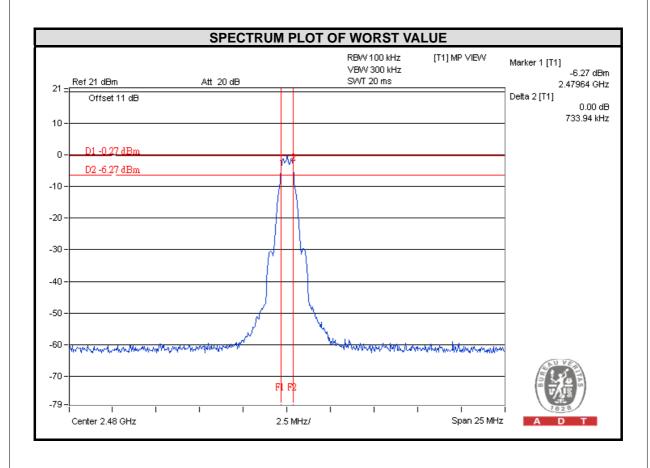
4.3.6 EUT OPERATING CONDITIONS

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	0.72	0.5	PASS
19	2440	0.73	0.5	PASS
39	2480	0.73	0.5	PASS



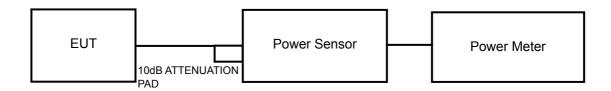


4.4 CONDUCTED OUTPUT POWER

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	1.977	2.96	30	PASS
19	2440	2.259	3.54	30	PASS
39	2480	1.710	2.33	30	PASS

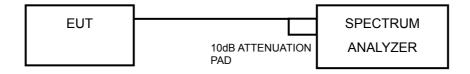


4.5 POWER SPECTRAL DENSITY MEASUREMENT

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 resolution bandwidth (RBW) = approximately 1% of the emission bandwidth
- b. Set the video bandwidth (VBW) \geq 3 x RBW, Detector = Peak.
- c. Trace mode = max hold.
- d. Sweep = auto couple.
- e. 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

4.5.5 DEVIATION FROM TEST STANDARD

No deviation.

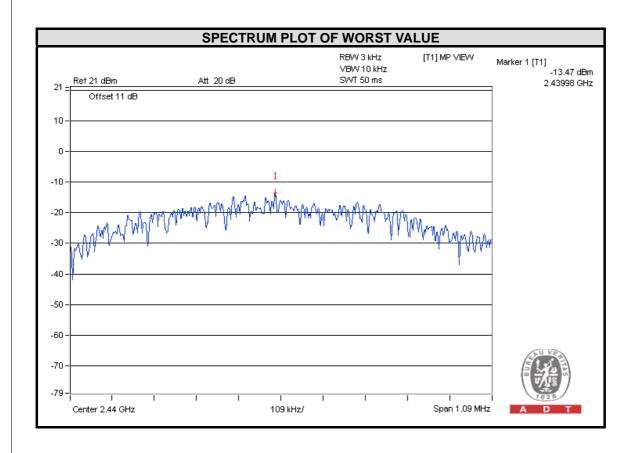
4.5.6 EUT OPERATING CONDITION

Same as Item 4.3.6



4.5.7 TEST RESULTS

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	2402	-14.29	8	PASS
19	2440	-13.47	8	PASS
39	2480	-15.07	8	PASS





4.6 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.

Report No.: RF140630C01-4 35 of 40 Report Format Version 5.1.0



4.6.4 TEST PROCEDURE

MEASUREMENT PROCEDURE REF

- 1. Set the RBW = 100 kHz.
- 2. Set the VBW ≥ 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

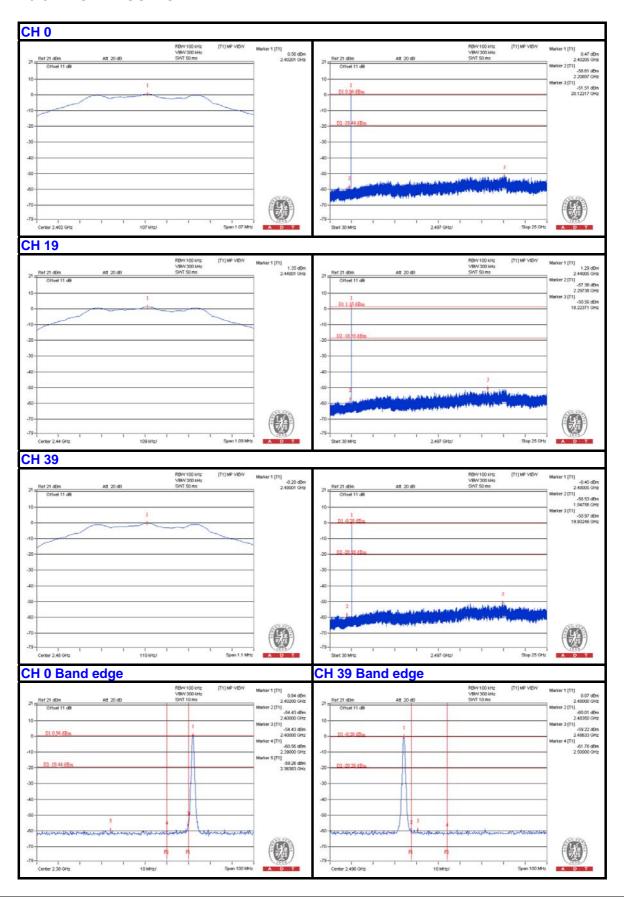
Same as Item 4.3.6

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: service.adt@tw.bureauveritas.com
Web Site: www.bureauveritas-adt.com

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



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 ---