

PARTIAL FCC TEST REPORT (15.407)

REPORT NO.: RF140528C12-1
MODEL NO.: T100TAL/H100TAL/R104TAL
FCC ID: MSQT100TAL
RECEIVED: Jul. 14, 2014
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ISSUED: Oct. 08, 2014

APPLICANT: ASUSTeK COMPUTER INC.

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TAIWAN

ISSUED BY: Bureau Veritas Consumer Products Services
(H.K.) Ltd., Taoyuan Branch

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF140528C12-1	Original release	Oct. 08, 2014

1. CERTIFICATION

PRODUCT: ASUS Tablet
MODEL NO.: T100TAL/H100TAL/R104TAL
BRAND: ASUS
APPLICANT: ASUSTeK COMPUTER INC.
TESTED: Aug. 31, 2014
TEST SAMPLE: Production Unit
STANDARDS: FCC Part 15, Subpart E (Section 15.407)
ANSI C63.10-2009

The above equipment (model: T100TAL/H100TAL/R104TAL) 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 : Rona Chen , **DATE** : Oct. 08, 2014
Rona Chen / Specialist

APPROVED BY : Sam chen , **DATE** : Oct. 08, 2014
Sam Chen / Senior Project Engineer

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART E (SECTION 15.407)			
STANDARD SECTION	TEST TYPE	RESULT	REMARK
15.407(b)(6)	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -17.37dB at 0.15000MHz.
15.407(b/1/2/3)(b)(6)	Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -4.56dB at 5470MHz.
15.407(a/1/2)	Peak Transmit Power	N/A	Refer to Note
15.407(a)(6)	Peak Power Excursion	N/A	Refer to Note
15.407(a/1/2)	Peak Power Spectral Density	N/A	Refer to Note
15.407(g)	Frequency Stability	N/A	Refer to Note
15.203	Antenna Requirement	PASS	No antenna connector is used.

NOTE: Test items for AC Power Conducted Emission and Radiated Emissions were performed for this report. Other testing data please refer to International Certification Corp. report no.: FR440102AN for module (Brand: Ampak, Model: AP6234A, FCC ID: ZQ6-AP6234A).

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	9kHz~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	2.93 dB
	200MHz ~1000MHz	2.95 dB
	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	ASUS Tablet
MODEL NO.	T100TAL/H100TAL/R104TAL
POWER SUPPLY	5.0 or 9.0Vdc (adapter or host equipment) 3.85Vdc (Li-ion battery)
MODULATION TYPE	64QAM, 16QAM, QPSK, BPSK
MODULATION TECHNOLOGY	OFDM
TRANSFER RATE	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to MCS7
OPERATING FREQUENCY	5180 ~ 5240MHz, 5260 ~ 5320MHz & 5500 ~ 5700MHz
NUMBER OF CHANNEL	5180 ~ 5240MHz: 4 for 802.11a, 802.11n (20MHz) 2 for 802.11n (40MHz) 5260 ~ 5320MHz: 4 for 802.11a, 802.11n (20MHz) 2 for 802.11n (40MHz) 5500 ~ 5700MHz: 8 for 802.11a, 802.11n (20MHz) 3 for 802.11n (40MHz)
ANTENNA TYPE	PIFA antenna with 0.809dBi gain (5180 ~ 5240MHz) PIFA antenna with 0.953dBi gain (5260 ~ 5320MHz) PIFA antenna with 0.359dBi gain (5500 ~ 5700MHz)
ANTENNA CONNECTOR	NA
DATA CABLE	Refer to Note as below
I/O PORTS	Refer to user's manual
ACCESSORY DEVICES	Refer to Note as below

NOTE:

1. All models are listed as below.

ITEM	BRAND	MODEL	Description
Mobile Dock	ASUS	T100TAL	All models are electrically identical, the different model names are for marketing purpose.
		H100TAL	
		R104TAL	

2. The EUT contains following accessory devices.

ITEM	BRAND	MODEL	SPECIFICATION
Adapter 1	ASUS	AD2022320	I/P: 100-240Vac, 50/60Hz, 0.5A O/P: 5Vdc, 2A or 9Vdc, 2A
Adapter 2	ASUS	W12-010N3A	I/P: 100-240Vac, 50/60Hz, 0.3A O/P: 5Vdc, 2A
Adapter 3	ASUS	AD897320	I/P: 100-240Vac, 50/60Hz, 0.3A O/P: 5Vdc, 2A
Adapter 4	ASUS	AD835M1	I/P: 100-240Vac, 50/60Hz, 0.3A O/P: 5Vdc, 2A
Battery 1	ASUS	C12N1406	3.85Vdc, 31W
Battery 2	ASUS	C12N1406	3.85Vdc, 31W
USB Cable	ASUS	L65U2009-CS-B	0.85m shielded cable, w/o ferrite core
CPU	Intel	Z3735D/E	1.3G , FCBGA (1380 Pin)
eMMC 1	HYNIX	H26M52103FMR	16G FBGA153
eMMC 2	HYNIX	H26M64103EMR	32G FBGA153
eMMC 3	HYNIX	H26M78103CCR	64G FBGA153
LCD Panel	AUO	B101XAN02.1	TFT10.1' HD GLARE SL-B LED
Front Camera	LITEON	4SF211N2	2M
Rear Camera	CHICONY	CJAD53320003871L H	5M
MainBoard	ASUS	T100TAL MAIN BOARD	--
WWAN Module	HUAWEI	ME936	include GPS
WLAN /BT Module	AMPAK	AP6234AL (AP6234ALNS)	Chip factory: BROADCOM / BCM43340XKUBC

3. The EUT provides 1 completed transmitter and 1 receiver.

MODULATION MODE	TX FUNCTION
802.11b	1TX
802.11g	1TX
802.11a	1TX
802.11n (20MHz)	1TX
802.11n (40MHz)	1TX

4. The model name and components of support unit Mobile Dock are listed as below.

ITEM	BRAND	MODEL	SPECIFICATION
Mobile Dock 1	ASUS	T100T Mobile Dock H100T Mobile Dock R104T Mobile Dock	W/O HDD
Mobile Dock 2 (HDD 1)			HDD Brand: HGST HDD Model: HTS545050A7E680
Mobile Dock 3 (HDD 2)			HDD Brand: WD HDD Model: WD5000LPVX
Mobile Dock 4 (HDD 3)			HDD Brand: TOSHIBA HDD Model: MQ01ABF050

- Mobile Dock is optional equipment. All models are electrically identical, the different model names are for marketing purpose.

5. The above EUT information is declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 DESCRIPTION OF TEST MODES

WLAN 5180 ~ 5240MHz

4 channels are provided for 802.11a, 802.11n (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

FOR 5260 ~ 5320MHz

4 channels are provided for 802.11a, 802.11n (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

WLAN 5500 ~ 5700MHz

8 channels are provided for 802.11a, 802.11n (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500MHz	116	5580MHz
104	5520MHz	132	5660MHz
108	5540MHz	136	5680MHz
112	5560MHz	140	5700MHz

3 channels are provided for 802.11n (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510MHz	134	5670MHz
110	5550MHz		

3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO			DESCRIPTION
	RE $\geq$ 1G	RE<1G	PLC	
A	√	√	-	Tablet (ASUS_T100TAL)
B	-	√	√	Tablet (ASUS_T100TAL) + Docking

Where **RE $\geq$ 1G**: Radiated Emission above 1GHz

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

NOTE: The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Y-plane**.

RADIATED EMISSION TEST (ABOVE 1GHz):

☒ 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	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11n (40MHz)	5180-5240	38 to 46	38	OFDM	BPSK	MCS0
A	802.11n (40MHz)	5260-5320	54 to 62	62	OFDM	BPSK	MCS0
A	802.11n (40MHz)	5500-5700	102 to 134	102	OFDM	BPSK	MCS0

RADIATED EMISSION TEST (BELOW 1GHz):

☒ 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	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A, B	802.11n (40MHz)	5180-5240	38 to 46	38	OFDM	BPSK	MCS0
A, B	802.11n (40MHz)	5260-5320	54 to 62	62	OFDM	BPSK	MCS0
A, B	802.11n (40MHz)	5500-5700	102 to 134	102	OFDM	BPSK	MCS0

POWER LINE CONDUCTED EMISSION TEST:

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
B	802.11n (40MHz)	5500-5700	102 to 134	102	OFDM	BPSK	MCS0



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Test CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE $\geq$ 1G	25deg. C, 65%RH	120Vac, 60Hz	Anson Lin
RE<1G	25deg. C, 65%RH	120Vac, 60Hz	Anson Lin
PLC	25deg. C, 65%RH	120Vac, 60Hz	Gavin 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.

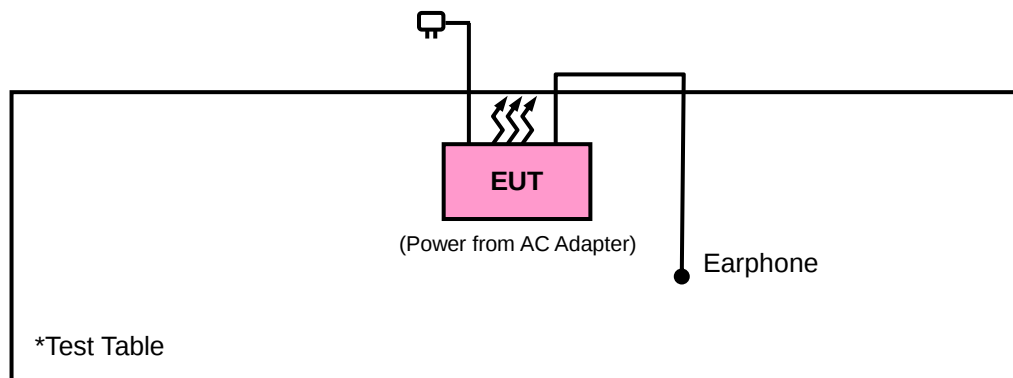
NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Mobile Dock	WD	WD5000LPVX	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A

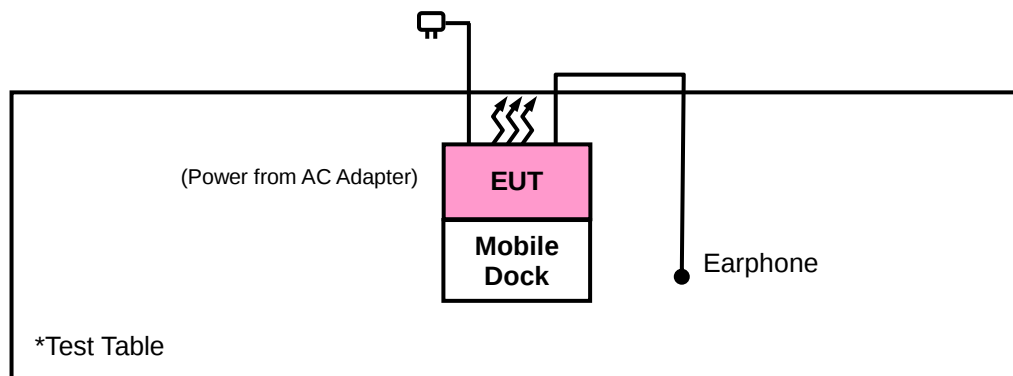
NOTE: 1. All power cords of the above support units are non shielded (1.8m).
2. Item 1 as a communication partner to transfer data.

3.3.1 CONFIGURATION OF SYSTEM UNDER TEST

Mode A



Mode B





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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 E (15.407)

KDB 789033 D01 General UNII Test Procedures Old v01r04

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:

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 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

APPLICABLE TO	LIMIT	
	FIELD STRENGTH AT 3m (dBμV/m)	
	PK	AV
	74	54
√	EIRP LIMIT (dBm)	EQUIVALENT FIELD STRENGTH AT 3m (dBμV/m)
	PK	PK
	-27	68.3

NOTE: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m}, \text{ where } P \text{ is the eirp (Watts).}$$

4.1.3 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver Agilent	N9038A	MY51210203	Jan. 17, 2014	Jan. 16, 2015
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 21, 2013	Dec. 20, 2014
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Feb. 27, 2014	Feb. 26, 2015
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Feb. 19, 2014	Feb. 18, 2015
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Dec. 18, 2013	Dec. 17, 2014
Loop Antenna	HFH2-Z2	100070	Mar. 06, 2014	Mar. 05, 2016
Preamplifier EMCI	EMC 012645	980115	Dec. 26, 2013	Dec. 25, 2014
Preamplifier EMCI	EMC 184045	980116	Jan. 13, 2014	Jan. 12, 2015
Preamplifier EMCI	EMC 330H	980112	Dec. 27, 2013	Dec. 26, 2014
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4 2950114	Oct. 18, 2013	Oct. 17, 2014
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Oct. 18, 2013	Oct. 17, 2014
RF signal cable Worken	RG-213	NA	Nov. 07, 2013	Nov. 06, 2014
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA
Power Meter	ML2495A	1012010	Aug. 22, 2014	Aug. 21, 2015
Power Sensor	MA2411B	1315050	Aug. 22, 2014	Aug. 21, 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 calibration interval of the loop antenna is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. The test was performed in HwaYa Chamber 10.
4. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
5. The FCC Site Registration No. is 690701.
6. The IC Site Registration No. is IC 7450F-10.

4.1.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters 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 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

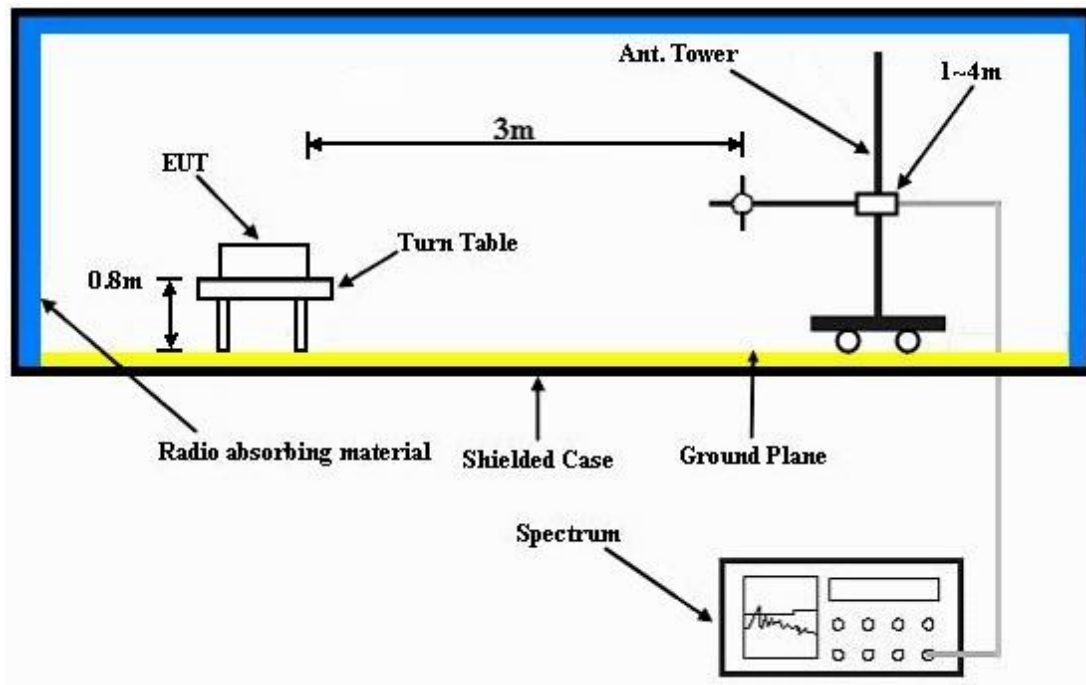
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 1kHz (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.

4.1.5 DEVIATION FROM TEST STANDARD

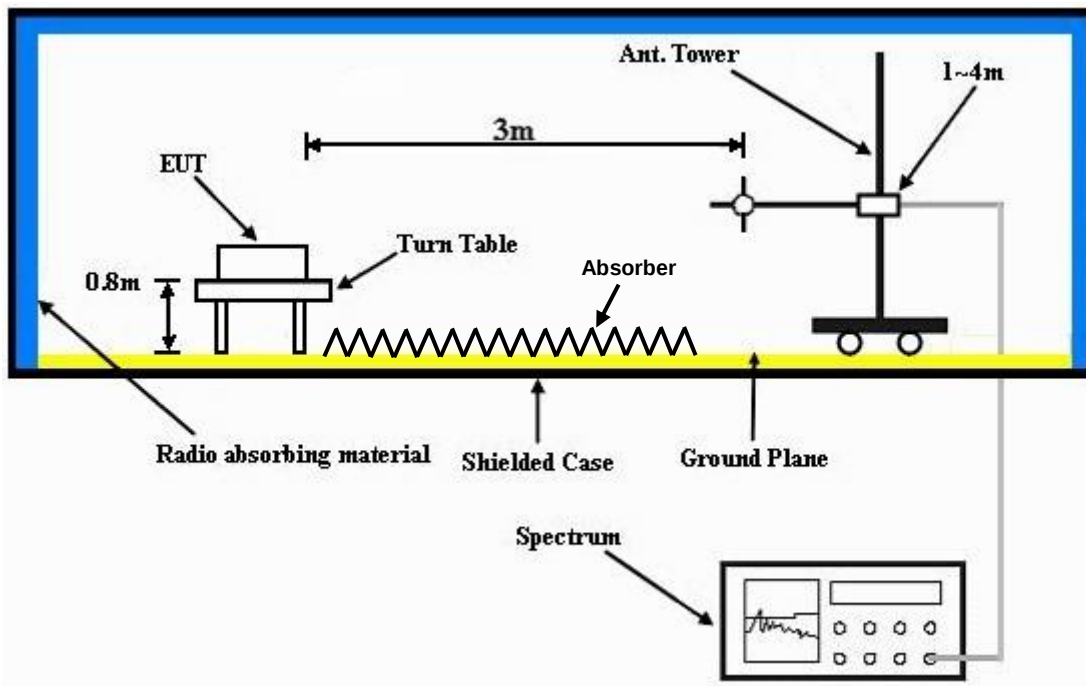
No deviation.

4.1.6 TEST SETUP

Frequency Range 30MHz ~ 1GHz



Frequency Range above 1GHz



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

4.1.7 EUT OPERATING CONDITIONS

- a. Placed the EUT on a testing table.
- b. Use the software to control the EUT under transmission condition continuously at specific channel frequency.

4.1.8 TEST RESULTS

ABOVE 1GHz WORST-CASE DATA

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 38	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Anson Lin
MODE	A		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5148	41.13	41.84	54	-12.87	31.32	5.29	37.32	100	34	Average
5148	60.5	61.21	74	-13.5	31.32	5.29	37.32	100	34	Peak
5190	87.2	87.87			31.35	5.32	37.34	100	34	Average
5190	96.29	96.96			31.35	5.32	37.34	100	34	Peak
5402	38.15	38.4	54	-15.85	31.52	5.41	37.18	100	34	Average
5402	60.14	60.39	74	-13.86	31.52	5.41	37.18	100	34	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5148	43.7	44.41	54	-10.3	31.32	5.29	37.32	100	34	Average
5148	62.25	62.96	74	-11.75	31.32	5.29	37.32	100	34	Peak
5190	91.73	92.4			31.35	5.32	37.34	100	34	Average
5190	100.72	101.39			31.35	5.32	37.34	100	34	Peak
5432	38.16	38.32	54	-15.84	31.55	5.42	37.13	100	34	Average
5432	59.82	59.98	74	-14.18	31.55	5.42	37.13	100	34	Peak

REMARKS:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5190MHz: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Anson Lin
MODE	A		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5086	37.79	38.53	54	-16.21	31.27	5.26	37.27	127	214	Average
5086	59.02	59.76	74	-14.98	31.27	5.26	37.27	127	214	Peak
5310	87.84	88.21			31.45	5.37	37.19	127	214	Average
5310	97.94	98.31			31.45	5.37	37.19	127	214	Peak
5352	38.65	38.96	54	-15.35	31.48	5.39	37.18	127	214	Average
5352	59.9	60.21	74	-14.1	31.48	5.39	37.18	127	214	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5144	38.04	38.75	54	-15.96	31.32	5.29	37.32	132	55	Average
5144	58.93	59.64	74	-15.07	31.32	5.29	37.32	132	55	Peak
5310	93.21	93.58			31.45	5.37	37.19	132	55	Average
5310	103.5	103.87			31.45	5.37	37.19	132	55	Peak
5356	41.27	41.58	54	-12.73	31.48	5.39	37.18	132	55	Average
5356	59.78	60.09	74	-14.22	31.48	5.39	37.18	132	55	Peak

REMARKS:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5310MHz: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 102	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Anson Lin
MODE	A		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	43.64	43.72	54	-10.36	31.56	5.44	37.08	101	187	Average
5460	61.77	61.85	74	-12.23	31.56	5.44	37.08	101	187	Peak
5470	49.44	49.5	54	-4.56	31.57	5.45	37.08	101	187	Average
5470	65.59	65.65	74	-8.41	31.57	5.45	37.08	101	187	Peak
5508	94.35	94.35			31.6	5.46	37.06	101	187	Average
5508	104.55	104.55			31.6	5.46	37.06	101	187	Peak
5725	38.64	38.52	54	-15.36	31.96	5.59	37.43	101	187	Average
5725	60.02	59.9	74	-13.98	31.96	5.59	37.43	101	187	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5368	40.34	40.63	54	-13.66	31.49	5.4	37.18	102	306	Average
5368	60	60.29	74	-14	31.49	5.4	37.18	102	306	Peak
5470	46.14	46.2	54	-7.86	31.57	5.45	37.08	102	306	Average
5470	60.68	60.74	74	-13.32	31.57	5.45	37.08	102	306	Peak
5510	92.31	92.31			31.6	5.46	37.06	102	306	Average
5510	102.7	102.7			31.6	5.46	37.06	102	306	Peak
5725	37.93	37.81	54	-16.07	31.96	5.59	37.43	102	306	Average
5725	59.7	59.58	74	-14.3	31.96	5.59	37.43	102	306	Peak

REMARKS:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5510MHz: Fundamental frequency.
- 5470MHz & 5725MHz: Out of restricted band

BELOW 1GHz WORST-CASE DATA:

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 38	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Anson Lin
MODE	A		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
55.92	29.42	47.61	40	-10.58	12.35	0.8	31.34	113	92	Peak
147.99	20.54	38.19	43.5	-22.96	12.64	1.33	31.62	126	257	Peak
200.1	24.97	45.79	43.5	-18.53	9.36	1.59	31.77	139	204	Peak
371.4	22.12	37.07	46	-23.88	14.66	2.31	31.92	113	92	Peak
569.5	22.93	33.11	46	-23.07	18.9	3	32.08	103	348	Peak
655.6	26.61	35.05	46	-19.39	20.28	3.26	31.98	100	55	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
37.29	33.38	50.53	40	-6.62	13.24	0.63	31.02	117	106	Peak
55.92	29.04	47.23	40	-10.96	12.35	0.8	31.34	125	74	Peak
147.18	19.32	37	43.5	-24.18	12.61	1.33	31.62	100	171	Peak
431.6	20.66	34.16	46	-25.34	15.96	2.55	32.01	129	46	Peak
569.5	26.82	37	46	-19.18	18.9	3	32.08	140	290	Peak
650.7	27.23	35.78	46	-18.77	20.22	3.24	32.01	100	179	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 38	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Anson Lin
MODE	B		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
55.92	29.23	47.42	40	-10.77	12.35	0.8	31.34	136	255	Peak
146.91	22.56	40.24	43.5	-20.94	12.61	1.33	31.62	100	230	Peak
244.11	25.27	44.07	46	-20.73	11.24	1.81	31.85	130	199	Peak
333.6	22.43	38.32	46	-23.57	13.75	2.17	31.81	103	62	Peak
569.5	24.13	34.31	46	-21.87	18.9	3	32.08	115	315	Peak
716.5	26.22	33.37	46	-19.78	21.05	3.48	31.68	132	70	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
37.29	33.35	50.5	40	-6.65	13.24	0.63	31.02	121	305	Peak
145.83	20.13	37.89	43.5	-23.37	12.54	1.32	31.62	102	128	Peak
179.04	18.37	37.87	43.5	-25.13	10.83	1.5	31.83	110	200	Peak
360.2	19.43	34.75	46	-26.57	14.38	2.27	31.97	105	261	Peak
569.5	26.44	36.62	46	-19.56	18.9	3	32.08	101	25	Peak
650.7	27.71	36.26	46	-18.29	20.22	3.24	32.01	100	310	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Anson Lin
MODE	A		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
56.46	29.38	47.57	40	-10.62	12.35	0.8	31.34	135	19	Peak
147.18	19.93	37.61	43.5	-23.57	12.61	1.33	31.62	102	262	Peak
200.1	26.09	46.91	43.5	-17.41	9.36	1.59	31.77	113	90	Peak
367.9	20.82	35.89	46	-25.18	14.56	2.3	31.93	100	207	Peak
571.6	22.7	32.82	46	-23.3	18.95	3.01	32.08	109	86	Peak
650.7	26.22	34.77	46	-19.78	20.22	3.24	32.01	106	198	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
37.29	33.56	50.71	40	-6.44	13.24	0.63	31.02	118	244	Peak
56.19	29.35	47.54	40	-10.65	12.35	0.8	31.34	103	170	Peak
146.64	19.69	37.4	43.5	-23.81	12.58	1.33	31.62	139	30	Peak
377	18.82	33.63	46	-27.18	14.8	2.33	31.94	107	3	Peak
546.4	22.66	33.22	46	-23.34	18.37	2.93	31.86	105	42	Peak
629.7	25.6	34.6	46	-20.4	19.96	3.18	32.14	139	243	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Anson Lin
MODE	B		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
56.19	28.95	47.14	40	-11.05	12.35	0.8	31.34	130	23	Peak
146.1	22.2	39.91	43.5	-21.3	12.58	1.33	31.62	120	315	Peak
244.11	26.61	45.41	46	-19.39	11.24	1.81	31.85	103	295	Peak
325.2	23.09	39.26	46	-22.91	13.54	2.14	31.85	115	344	Peak
512.8	21.97	33.11	46	-24.03	17.62	2.82	31.58	107	315	Peak
650.7	26.91	35.46	46	-19.09	20.22	3.24	32.01	106	17	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
37.02	33.96	51.28	40	-6.04	13.09	0.62	31.03	100	19	Peak
56.46	29.14	47.33	40	-10.86	12.35	0.8	31.34	103	66	Peak
146.91	20.64	38.32	43.5	-22.86	12.61	1.33	31.62	125	288	Peak
419.7	21.5	35.32	46	-24.5	15.73	2.5	32.05	116	98	Peak
569.5	26.51	36.69	46	-19.49	18.9	3	32.08	101	48	Peak
650.7	28.23	36.78	46	-17.77	20.22	3.24	32.01	130	217	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 102	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Anson Lin
MODE	A		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
56.46	29.53	47.72	40	-10.47	12.35	0.8	31.34	111	180	Peak
147.72	20.01	37.69	43.5	-23.49	12.61	1.33	31.62	125	333	Peak
200.1	24.65	45.47	43.5	-18.85	9.36	1.59	31.77	113	6	Peak
372.1	21.1	36.03	46	-24.9	14.68	2.32	31.93	134	150	Peak
517	23.14	34.17	46	-22.86	17.71	2.84	31.58	103	100	Peak
651.4	25.66	34.19	46	-20.34	20.23	3.25	32.01	100	16	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
37.29	32.99	50.14	40	-7.01	13.24	0.63	31.02	135	201	Peak
56.46	28.83	47.02	40	-11.17	12.35	0.8	31.34	138	39	Peak
200.1	20.11	40.93	43.5	-23.39	9.36	1.59	31.77	121	346	Peak
424.6	19.81	33.49	46	-26.19	15.83	2.52	32.03	116	18	Peak
569.5	28.5	38.68	46	-17.5	18.9	3	32.08	138	314	Peak
650.7	26.87	35.42	46	-19.13	20.22	3.24	32.01	100	311	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 102	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Anson Lin
MODE	B		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
56.19	29.06	47.25	40	-10.94	12.35	0.8	31.34	134	336	Peak
145.83	22.04	39.8	43.5	-21.46	12.54	1.32	31.62	114	187	Peak
244.11	25.68	44.48	46	-20.32	11.24	1.81	31.85	135	263	Peak
360.2	22.15	37.47	46	-23.85	14.38	2.27	31.97	100	13	Peak
553.4	23.16	33.64	46	-22.84	18.55	2.96	31.99	110	81	Peak
731.9	29.22	36	46	-16.78	21.27	3.52	31.57	131	358	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
37.56	33.6	50.75	40	-6.4	13.24	0.63	31.02	137	122	Peak
56.19	29	47.19	40	-11	12.35	0.8	31.34	119	116	Peak
146.91	20.84	38.52	43.5	-22.66	12.61	1.33	31.62	109	214	Peak
325.2	19.78	35.95	46	-26.22	13.54	2.14	31.85	135	201	Peak
569.5	28.09	38.27	46	-17.91	18.9	3	32.08	123	64	Peak
650.7	28.71	37.26	46	-17.29	20.22	3.24	32.01	130	174	Peak

REMARKS: Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
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 (dB μ V)	
	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	100288	Apr. 24, 2014	Apr. 23, 2015
RF signal cable Woken	5D-FB	Cable-HYCO2-01	Dec. 27, 2013	Dec. 26, 2014
LISN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Dec. 23, 2013	Dec. 22, 2014
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100312	Jul. 10, 2014	Jul. 09, 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 2.
 3. The VCCI Site Registration No. is C-2047.

4.2.3 TEST PROCEDURES

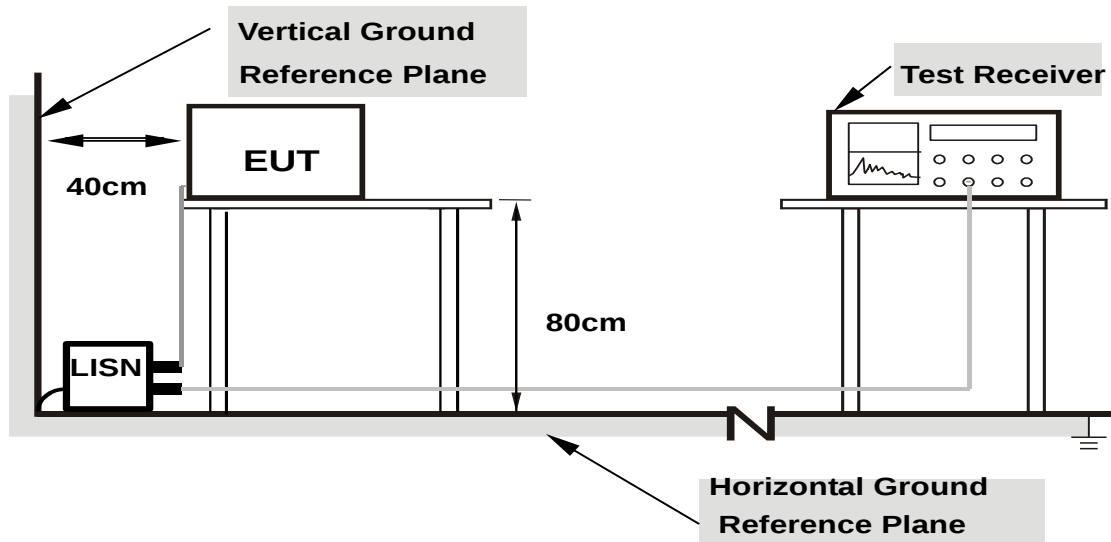
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling 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 section 4.1.6.

4.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA :

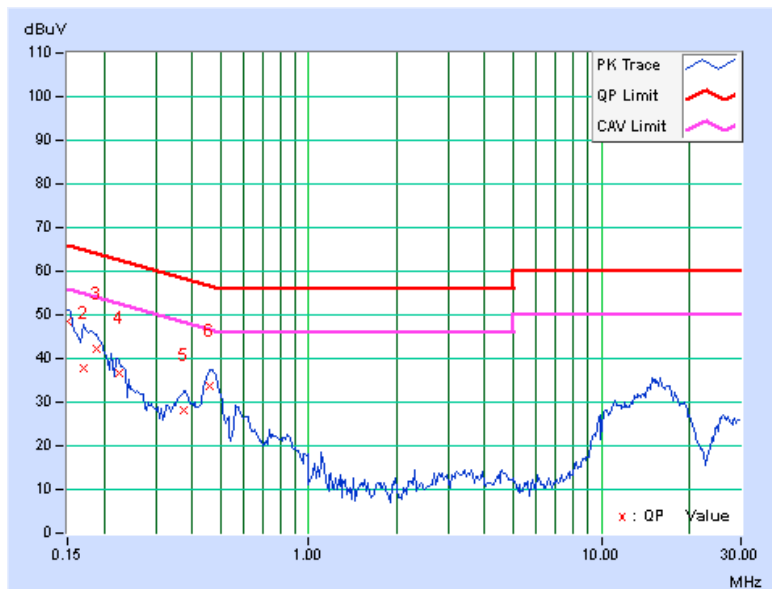
MODE B

PHASE	Line 1	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	0.26	48.37	34.40	48.63	34.66	66.00	56.00	-17.37	-21.34
2	0.16953	0.27	37.50	20.68	37.77	20.95	64.98	54.98	-27.21	-34.03
3	0.18906	0.28	41.86	28.94	42.14	29.22	64.08	54.08	-21.94	-24.86
4	0.22422	0.28	36.41	23.57	36.69	23.85	62.66	52.66	-25.97	-28.81
5	0.37656	0.30	27.67	20.87	27.97	21.17	58.35	48.35	-30.39	-27.19
6	0.45859	0.30	33.44	26.73	33.74	27.03	56.72	46.72	-22.97	-19.68

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

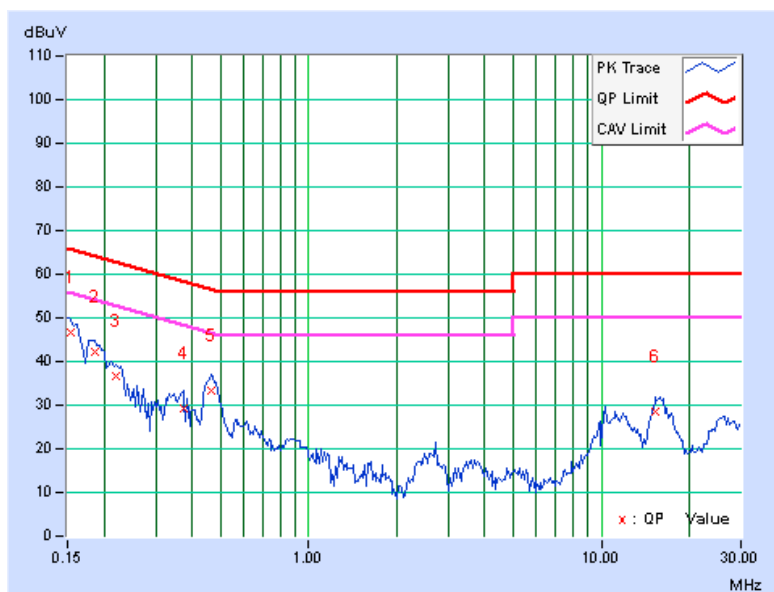


PHASE	Line 2	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	0.27	46.22	32.44	46.49	32.71	65.79	55.79	-19.30	-23.08
2	0.18516	0.28	41.84	29.97	42.12	30.25	64.25	54.25	-22.14	-24.01
3	0.22031	0.28	36.28	24.60	36.56	24.88	62.81	52.81	-26.25	-27.93
4	0.37266	0.30	28.81	20.58	29.11	20.88	58.44	48.44	-29.33	-27.56
5	0.46641	0.30	33.08	25.84	33.38	26.14	56.58	46.58	-23.19	-20.43
6	15.39453	0.57	27.85	22.11	28.42	22.68	60.00	50.00	-31.58	-27.32

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



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:

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



A D T

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

No any modifications are made to the EUT by the lab during the test.

---END---