FCC Test Report

Report No.:	RF140707C54I
FCC ID:	M82-UTX-3115
Test Model:	UTX-3115
Series Model:	UTX-3115XXXXXXXXXXXXXXX, UTX3115XXXXXXXXXXXXXXX (“X” can be 0-9 or A-Z or blank or any alphanumeric character), HPE Edgeline EL10
Received Date:	Jun. 18, 2014
Test Date:	Mar. 11 ~ Mar. 12, 2016 (For radiated emission above 1GHz test) Aug. 30 ~ Oct. 03, 2016 (For radiated emission below 1GHz and power line conducted emission Tests)
Issued Date:	Oct. 03, 2016
Applicant:	ADVANTECH CO., LTD
Address:	No. 1, Alley 20, Lane 26, Rueiguang Rd, Neihu District, Taipei, Taiwan 114
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 Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)

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Release Control Record

Issue No.	Description	Date Issued
RF140707C54I	Original release	Oct. 03, 2016

1 Certificate of Conformity

Product:	COMPUTER
Brand:	Advantech, Hewlett Packard Enterprise
Test Model:	UTX-3115
Series Model:	UTX-3115XXXXXXXXXXXXXXX, UTX3115XXXXXXXXXXXXXXX ("X" can be 0-9 or A-Z or blank or any alphanumeric character), HPE Edgeline EL10
Sample Status:	Engineering sample
Applicant:	ADVANTECH CO., LTD
Test Date:	Mar. 11 ~ Mar. 12, 2016 (For radiated emission above 1GHz test) Aug. 30 ~ Oct. 03, 2016 (For radiated emission below 1GHz and power line conducted emission Tests)
Standards:	47 CFR FCC Part 15, Subpart C (Section 15.247) ANSI C63.10:2013

The above equipment 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 : Celine Chou , **Date:** Oct. 03, 2016

Celine Chou / Specialist

Approved by : Ken Liu , **Date:** Oct. 03, 2016

Ken Liu / Senior Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247)			
FCC Clause	Test Item	Result	Remarks
15.207	AC Power Conducted Emission	Pass	Meet the requirement of limit. Minimum passing margin is -13.99dB at 0.15000MHz
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -1.0dB at 2390.00MHz and 2483.50MHz.
15.247(d)	Antenna Port Emission	NA	Refer to Note below.
15.247(a)(2)	6dB bandwidth	NA	Refer to Note below.
15.247(b)	Conducted power	NA	Refer to Note below.
15.247(e)	Power Spectral Density	NA	Refer to Note below.
15.203	Antenna Requirement	Pass	Antenna connector is SMA (M) not a standard connector.

Note: Test items for conducted and radiated emission test were performed for this report. Other testing data please refer to module (Brand: Intel, Model: 7260HMW, FCC ID: PD97260H) Report.

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	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports0	150kHz ~ 30MHz	2.44 dB
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	3.63 dB
	200MHz ~1000MHz	3.64 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	COMPUTER
Brand	Advantech, Hewlett Packard Enterprise
Test Model	UTX-3115
Series Model	UTX-3115XXXXXXXXXXXXXXX, UTX3115XXXXXXXXXXXXXXX (“X” can be 0-9 or A-Z or blank or any alphanumeric character), HPE Edgeline EL10
Model Difference	Refer to Note
Status of EUT	Engineering sample
Power Supply Rating	12Vdc from Adapter
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Technology	DSSS, OFDM
Transfer Rate	802.11b:11.0/ 5.5/ 2.0/ 1.0Mbps 802.11g: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 450.0Mbps
Operating Frequency	2412 ~ 2462MHz
Number of Channel	11 for 802.11b, 802.11g, 802.11n (20MHz) 7 for 802.11n (40MHz)
Antenna Type	Dipole antenna with 2.98dBi gain
Antenna Connector	SMA (M)
Accessory Device	Refer to note
Data Cable Supplied	NA

Note:

1. This report is prepared for FCC class II permissive change
2. This report is issued as a supplementary report to the original BV ADT report no.: RF140707C54D. The differences compared with original report are adding components, only radiated emission and power line conducted emission had been tested for this addendum.
3. All models are listed as below.

Brand	Model	Difference
Advantech	UTX-3115XXXXXXXXXXXXXXX (“X” can be 0-9 or A-Z or blank or any alphanumeric character)	For marketing purpose.
	UTX3115XXXXXXXXXXXXXXX (“X” can be 0-9 or A-Z or blank or any alphanumeric character)	
Hewlett Packard Enterprise	HPE Edgeline EL10	

* Model UTX-3115 was chosen for final test.

4. The EUT incorporates a MIMO function. Physically, the EUT provides 2 completed transmitters and 2 receivers.

Modulation Mode	TX Function
802.11b	1TX
802.11g	1TX
802.11n (20MHz)	1TX / 2TX
802.11n (40MHz)	1TX / 2TX

5. The EUT uses the following components. (New components are marked in boldface.)

Part	Specification	Vendor	Model
Main board	-	Advantech	AIMB-115
Memory	DDR3L 4GB	Apacer	PC3-1066 CL9
SSD	32GB	Plextor	PX-32G5Le-72
	64GB	**Plextor**	**PX-64G5Le-72**
	64GB	**Liteon**	**PZ8-CC064**
	64GB	**Advantech**	**SQF-S25M4-64G-S9E**
	64GB	**Transcend**	**96FD25-S064-TR7**
CPU	1.4GHz	Intel	ATOM E3826
3G Module	-	Telit	HE910
Wi-Fi Module	-	Intel	7260HMW
Adapter 1	I/P: 100-240Vac, 50-60Hz, 1.5A O/P: 12Vdc, 3A DC: 1.5m cable with one core attached on adapter AC: 1.8m shielded cable without core	FSP	FSP036-RAB
Adapter 2	**I/P: 100-240Vac, 50-60Hz, 1.2A** **O/P: 12Vdc, 3A** **DC: 1.45m cable with one core attached on adapter** **AC: 1.8m shielded cable without core**	**FSP**	**FSP036-RBBN2**

3.2 Description of Test Modes

11 channels are provided for 802.11b, 802.11g and 802.11n (20MHz):

Channel	Frequency	Channel	Frequency
1	2412MHz	7	2442MHz
2	2417MHz	8	2447MHz
3	2422MHz	9	2452MHz
4	2427MHz	10	2457MHz
5	2432MHz	11	2462MHz
6	2437MHz		

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

Channel	Frequency	Channel	Frequency
3	2422MHz	7	2442MHz
4	2427MHz	8	2447MHz
5	2432MHz	9	2452MHz
6	2437MHz		

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT CONFIGURE MODE	APPLICABLE TO			DESCRIPTION
	RE≥1G	RE<1G	PLC	
A	√	√	√	Powered by adapter 1 + Plextor SSD (32GB)
B	-	√	√	Powered by adapter 2 + Liteon SSD (64GB)

Where **RE≥1G:** Radiated Emission above 1GHz & Bandedge Measurement **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 **X-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	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
A	802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	7.2
A	802.11n (40MHz)	3 to 9	3, 6, 9	OFDM	BPSK	15.0

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	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A, B	802.11b	1 to 11	1	DSSS	DBPSK	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	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A, B	802.11b	1 to 11	1	DSSS	DBPSK	1.0

Test Condition:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE≥1G	22deg. C, 66%RH	120Vac, 60Hz	Tank Wu
RE<1G	20deg. C, 69%RH 25deg. C, 69%RH	120Vac, 60Hz	Bond Tseng
PLC	25deg. C, 75%RH 20deg. C, 69%RH	120Vac, 60Hz	Chris Lin Bayu Wu

3.3 Description of Support Units

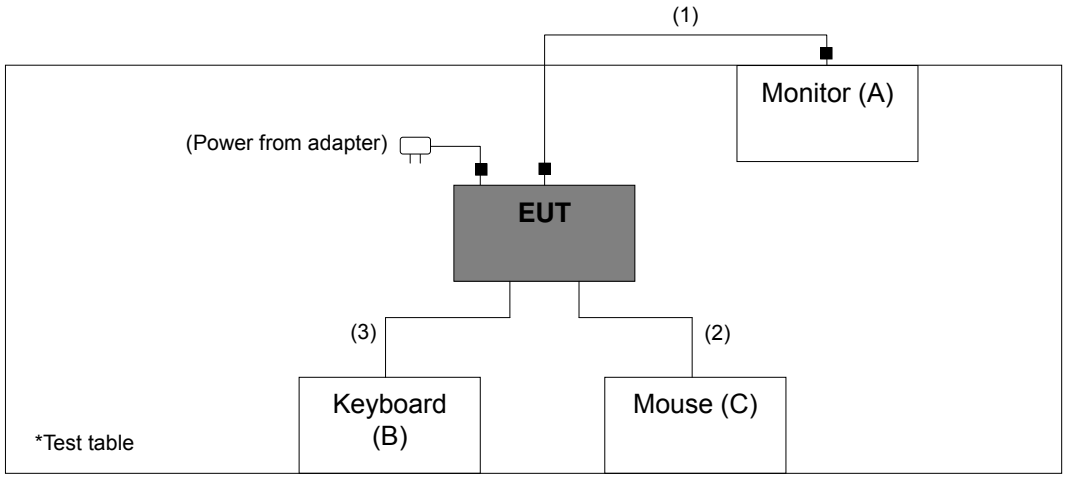
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Monitor	Samsung	173v	N/A	FCC DoC Approved	-
B.	Mouse	DELL	MS-111T	CN-0KW2YH-71616-28H-0L30	N/A	-
C.	Keyboard	WINTEK	WM700	20110700000	N/A	-

Note: All power cords of the above support units are non-shielded (1.8m).

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	D-Sub	1	1.8	Y	2	-
2.	USB	1	1.8	Y	0	-
3.	USB	1	1.8	Y	0	-

3.3.1 Configuration of System under Test



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)

KDB 558074 D01 DTS Meas Guidance v03r05

KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10-2013

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

Note: The EUT 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.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCS30	100289	Dec. 23, 2015	Dec. 22, 2016
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	Apr. 19, 2015	Apr. 18, 2016
			Apr. 19, 2016	Apr. 18, 2017
BILOG Antenna SCHWARZBECK	VULB9168	9168-148	Jan. 18, 2016	Jan. 17, 2017
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1169	Jan. 08, 2016	Jan. 07, 2017
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Jan. 18, 2016	Jan. 17, 2017
Loop Antenna	EM-6879	269	Aug. 11, 2015	Aug. 10, 2016
			Aug. 11, 2016	Aug. 10, 2017
Preamplifier Agilent	8449B	3008A01911	Aug. 09, 2015	Aug. 08, 2016
			Aug. 09, 2016	Aug. 08, 2017
Preamplifier Agilent	8447D	2944A10638	Aug. 09, 2015	Aug. 08, 2016
			Aug. 09, 2016	Aug. 08, 2017
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-02(309222 +248780)	Aug. 09, 2015	Aug. 08, 2016
			Aug. 09, 2016	Aug. 08, 2017
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-03(274092)	Aug. 09, 2015	Aug. 08, 2016
			Aug. 09, 2016	Aug. 08, 2017
RF signal cable Woken	8D-FB	Cable-CH9-01	Aug. 09, 2015	Aug. 08, 2016
			Aug. 09, 2016	Aug. 08, 2017
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 BV ADT	AT100	AT93021705	NA	NA
Turn Table BV ADT	TT100	TT93021705	NA	NA
Turn Table Controller BV ADT	SC100	SC93021705	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 Chamber 9.
3. The horn antenna and 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

For Radiated emission below 30MHz

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. 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. Both X and Y axes of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case 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 Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. 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 height of antenna 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 quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

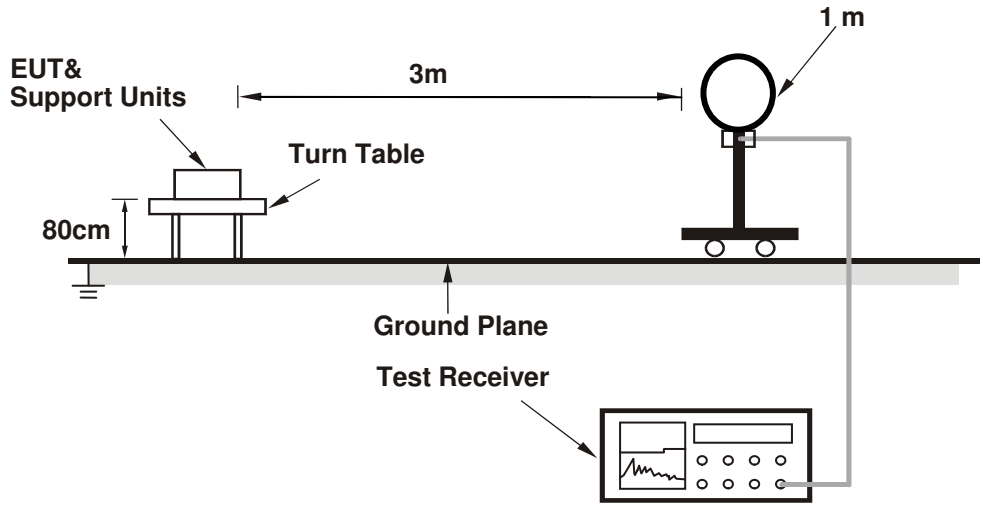
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.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

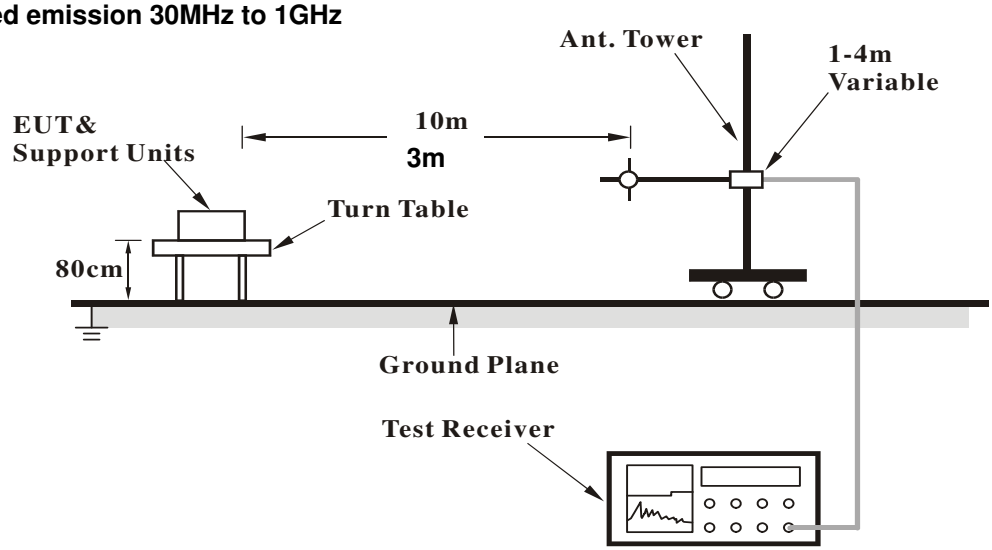
No deviation.

4.1.5 Test Set Up

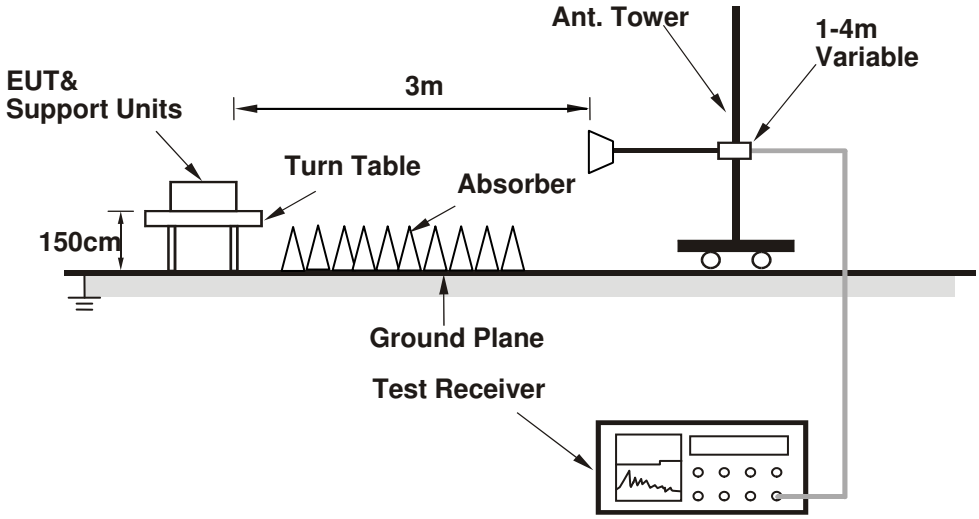
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



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

4.1.6 EUT Operating Conditions

a. Placed the EUT on the testing table.
b. The EUT ran a test program (provided by manufacturer) to enable itself under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

Above 1GHz Worst-Case data:

Chain A

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	63.4 PK	74.0	-10.6	3.03 H	316	28.60	34.80
2	2390.00	51.0 AV	54.0	-3.0	3.03 H	316	16.20	34.80
3	*2412.00	96.4 PK			3.03 H	316	61.50	34.90
4	*2412.00	92.7 AV			3.03 H	316	57.80	34.90
5	4824.00	49.6 PK	74.0	-24.4	1.51 H	133	45.20	4.40
6	4824.00	36.7 AV	54.0	-17.3	1.51 H	133	32.30	4.40
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)
1	2390.00	64.9 PK	74.0	-9.1	2.36 V	103	30.10	34.80
2	2390.00	50.9 AV	54.0	-3.1	2.36 V	103	16.10	34.80
3	*2412.00	100.5 PK			2.36 V	103	65.60	34.90
4	*2412.00	96.2 AV			2.36 V	103	61.30	34.90
5	4824.00	53.0 PK	74.0	-21.0	1.22 V	301	48.60	4.40
6	4824.00	43.3 AV	54.0	-10.7	1.22 V	301	38.90	4.40

Remarks:

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2437.00	100.6 PK			3.10 H	309	65.60	35.00
2	*2437.00	96.7 AV			3.10 H	309	61.70	35.00
3	4874.00	49.8 PK	74.0	-24.2	1.49 H	128	45.30	4.50
4	4874.00	36.4 AV	54.0	-17.6	1.49 H	128	31.90	4.50
5	7311.00	56.9 PK	74.0	-17.1	1.22 H	13	46.80	10.10
6	7311.00	43.2 AV	54.0	-10.8	1.22 H	13	33.10	10.10
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)
1	*2437.00	101.9 PK			2.37 V	56	66.90	35.00
2	*2437.00	98.4 AV			2.37 V	56	63.40	35.00
3	4874.00	51.4 PK	74.0	-22.6	1.09 V	263	46.90	4.50
4	4874.00	40.7 AV	54.0	-13.3	1.09 V	263	36.20	4.50
5	7311.00	57.2 PK	74.0	-16.8	1.03 V	50	47.10	10.10
6	7311.00	44.2 AV	54.0	-9.8	1.03 V	50	34.10	10.10

Remarks:

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2462.00	100.3 PK			3.11 H	216	65.10	35.20
2	*2462.00	97.1 AV			3.11 H	216	61.90	35.20
3	2483.50	62.5 PK	74.0	-11.5	3.11 H	216	27.30	35.20
4	2483.50	51.5 AV	54.0	-2.5	3.11 H	216	16.30	35.20
5	4924.00	50.0 PK	74.0	-24.0	1.49 H	109	45.30	4.70
6	4924.00	41.8 AV	54.0	-12.2	1.49 H	109	37.10	4.70
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)
1	*2462.00	104.8 PK			2.10 V	87	69.60	35.20
2	*2462.00	100.3 AV			2.10 V	87	65.10	35.20
3	2483.50	65.8 PK	74.0	-8.2	2.10 V	87	30.60	35.20
4	2483.50	52.0 AV	54.0	-2.0	2.10 V	87	16.80	35.20
5	4924.00	53.3 PK	74.0	-20.7	1.16 V	29	48.60	4.70
6	4924.00	44.3 AV	54.0	-9.7	1.16 V	29	39.60	4.70

Remarks:

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

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	62.7 PK	74.0	-11.3	3.11 H	39	27.90	34.80
2	2390.00	50.3 AV	54.0	-3.7	3.11 H	39	15.50	34.80
3	*2412.00	101.4 PK			3.11 H	39	66.50	34.90
4	*2412.00	90.5 AV			3.11 H	39	55.60	34.90
5	4824.00	49.0 PK	74.0	-25.0	1.48 H	106	44.60	4.40
6	4824.00	35.0 AV	54.0	-19.0	1.48 H	106	30.60	4.40
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)
1	2390.00	65.4 PK	74.0	-8.6	3.16 V	45	30.60	34.80
2	2390.00	51.6 AV	54.0	-2.4	3.16 V	45	16.80	34.80
3	*2412.00	104.8 PK			3.16 V	45	69.90	34.90
4	*2412.00	93.5 AV			3.16 V	45	58.60	34.90
5	4824.00	50.0 PK	74.0	-24.0	1.19 V	299	45.60	4.40
6	4824.00	36.2 AV	54.0	-17.8	1.19 V	299	31.80	4.40

Remarks:

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2437.00	102.6 PK			3.11 H	18	67.60	35.00
2	*2437.00	92.1 AV			3.11 H	18	57.10	35.00
3	4874.00	49.6 PK	74.0	-24.4	1.66 H	145	45.10	4.50
4	4874.00	36.5 AV	54.0	-17.5	1.66 H	145	32.00	4.50
5	7311.00	56.6 PK	74.0	-17.4	1.18 H	144	46.50	10.10
6	7311.00	42.8 AV	54.0	-11.2	1.18 H	144	32.70	10.10
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)
1	*2437.00	107.5 PK			2.16 V	88	72.50	35.00
2	*2437.00	97.3 AV			2.16 V	88	62.30	35.00
3	4874.00	50.1 PK	74.0	-23.9	1.20 V	308	45.60	4.50
4	4874.00	38.4 AV	54.0	-15.6	1.20 V	308	33.90	4.50
5	7311.00	57.0 PK	74.0	-17.0	1.22 V	201	46.90	10.10
6	7311.00	43.9 AV	54.0	-10.1	1.22 V	201	33.80	10.10

Remarks:

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2462.00	101.1 PK			3.12 H	100	65.90	35.20
2	*2462.00	87.2 AV			3.12 H	100	52.00	35.20
3	2483.50	64.1 PK	74.0	-9.9	3.12 H	100	28.90	35.20
4	2483.50	50.8 AV	54.0	-3.2	3.12 H	100	15.60	35.20
5	4924.00	49.8 PK	74.0	-24.2	1.70 H	169	45.10	4.70
6	4924.00	36.6 AV	54.0	-17.4	1.70 H	169	31.90	4.70
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)
1	*2462.00	105.1 PK			2.16 V	103	69.90	35.20
2	*2462.00	93.8 AV			2.16 V	103	58.60	35.20
3	2483.50	66.1 PK	74.0	-7.9	2.16 V	103	30.90	35.20
4	2483.50	52.0 AV	54.0	-2.0	2.16 V	103	16.80	35.20
5	4924.00	51.0 PK	74.0	-23.0	1.62 V	241	46.30	4.70
6	4924.00	37.4 AV	54.0	-16.6	1.62 V	241	32.70	4.70

Remarks:

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

802.11n (20MHz)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	64.7 PK	74.0	-9.3	3.16 H	166	29.90	34.80
2	2390.00	51.7 AV	54.0	-2.3	3.16 H	166	16.90	34.80
3	*2412.00	99.1 PK			3.16 H	166	64.20	34.90
4	*2412.00	88.8 AV			3.16 H	166	53.90	34.90
5	4824.00	50.0 PK	74.0	-24.0	1.68 H	90	45.60	4.40
6	4824.00	36.2 AV	54.0	-17.8	1.68 H	90	31.80	4.40
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)
1	2390.00	64.9 PK	74.0	-9.1	2.77 V	6	30.10	34.80
2	2390.00	51.8 AV	54.0	-2.2	2.77 V	6	17.00	34.80
3	*2412.00	101.6 PK			2.77 V	6	66.70	34.90
4	*2412.00	90.8 AV			2.77 V	6	55.90	34.90
5	4824.00	50.3 PK	74.0	-23.7	1.03 V	166	45.90	4.40
6	4824.00	36.7 AV	54.0	-17.3	1.03 V	166	32.30	4.40

Remarks:

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2437.00	99.6 PK			2.96 H	101	64.60	35.00
2	*2437.00	89.4 AV			2.96 H	101	54.40	35.00
3	4874.00	49.4 PK	74.0	-24.6	1.55 H	45	44.90	4.50
4	4874.00	36.3 AV	54.0	-17.7	1.55 H	45	31.80	4.50
5	7311.00	56.4 PK	74.0	-17.6	1.19 H	303	46.30	10.10
6	7311.00	43.5 AV	54.0	-10.5	1.19 H	303	33.40	10.10
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)
1	*2437.00	104.2 PK			2.55 V	22	69.20	35.00
2	*2437.00	94.2 AV			2.55 V	22	59.20	35.00
3	4874.00	49.8 PK	74.0	-24.2	1.16 V	121	45.30	4.50
4	4874.00	36.5 AV	54.0	-17.5	1.16 V	121	32.00	4.50
5	7311.00	52.4 PK	74.0	-21.6	1.00 V	291	42.30	10.10
6	7311.00	39.1 AV	54.0	-14.9	1.00 V	291	29.00	10.10

Remarks:

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2462.00	97.6 PK			3.23 H	126	62.40	35.20
2	*2462.00	86.3 AV			3.23 H	126	51.10	35.20
3	2483.50	64.5 PK	74.0	-9.5	3.23 H	126	29.30	35.20
4	2483.50	51.7 AV	54.0	-2.3	3.23 H	126	16.50	35.20
5	4924.00	49.5 PK	74.0	-24.5	1.82 H	133	44.80	4.70
6	4924.00	36.6 AV	54.0	-17.4	1.82 H	133	31.90	4.70
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)
1	*2462.00	98.3 PK			2.45 V	40	63.10	35.20
2	*2462.00	87.8 AV			2.45 V	40	52.60	35.20
3	2483.50	65.0 PK	74.0	-9.0	2.45 V	40	29.80	35.20
4	2483.50	51.9 AV	54.0	-2.1	2.45 V	40	16.70	35.20
5	4924.00	51.0 PK	74.0	-23.0	1.03 V	112	46.30	4.70
6	4924.00	37.5 AV	54.0	-16.5	1.03 V	112	32.80	4.70

Remarks:

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

802.11n (40MHz)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	64.6 PK	74.0	-9.4	2.97 H	155	29.80	34.80
2	2390.00	51.5 AV	54.0	-2.5	2.97 H	155	16.70	34.80
3	*2422.00	95.1 PK			2.97 H	155	60.10	35.00
4	*2422.00	84.9 AV			2.97 H	155	49.90	35.00
5	4844.00	49.6 PK	74.0	-24.4	1.88 H	13	45.10	4.50
6	4844.00	36.4 AV	54.0	-17.6	1.88 H	13	31.90	4.50
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)
1	2390.00	64.9 PK	74.0	-9.1	2.19 V	88	30.10	34.80
2	2390.00	52.0 AV	54.0	-2.0	2.19 V	88	17.20	34.80
3	*2422.00	96.8 PK			2.19 V	88	61.80	35.00
4	*2422.00	85.9 AV			2.19 V	88	50.90	35.00
5	4844.00	50.1 PK	74.0	-23.9	1.03 V	54	45.60	4.50
6	4844.00	37.3 AV	54.0	-16.7	1.03 V	54	32.80	4.50

Remarks:

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	64.6 PK	74.0	-9.4	3.11 H	277	29.80	34.80
2	2390.00	51.7 AV	54.0	-2.3	3.11 H	277	16.90	34.80
3	*2437.00	100.9 PK			3.11 H	277	65.90	35.00
4	*2437.00	90.6 AV			3.11 H	277	55.60	35.00
5	2483.50	65.5 PK	74.0	-8.5	3.11 H	277	30.30	35.20
6	2483.50	52.0 AV	54.0	-2.0	3.11 H	277	16.80	35.20
7	4874.00	49.4 PK	74.0	-24.6	1.62 H	100	44.90	4.50
8	4874.00	36.0 AV	54.0	-18.0	1.62 H	100	31.50	4.50
9	7311.00	56.2 PK	74.0	-17.8	1.26 H	90	46.10	10.10
10	7311.00	43.9 AV	54.0	-10.1	1.26 H	90	33.80	10.10
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)
1	2390.00	66.9 PK	74.0	-7.1	2.11 V	53	32.10	34.80
2	2390.00	52.5 AV	54.0	-1.5	2.11 V	53	17.70	34.80
3	*2437.00	104.1 PK			2.11 V	53	69.10	35.00
4	*2437.00	94.0 AV			2.11 V	53	59.00	35.00
5	2483.50	66.8 PK	74.0	-7.2	2.11 V	53	31.60	35.20
6	2483.50	52.4 AV	54.0	-1.6	2.11 V	53	17.20	35.20
7	4874.00	50.1 PK	74.0	-23.9	1.03 V	144	45.60	4.50
8	4874.00	36.3 AV	54.0	-17.7	1.03 V	144	31.80	4.50
9	7311.00	57.3 PK	74.0	-16.7	1.08 V	81	47.20	10.10
10	7311.00	45.0 AV	54.0	-9.0	1.08 V	81	34.90	10.10

Remarks:

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

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2452.00	97.9 PK			3.11 H	169	62.90	35.00
2	*2452.00	87.3 AV			3.11 H	169	52.30	35.00
3	2483.50	66.0 PK	74.0	-8.0	3.11 H	169	30.80	35.20
4	2483.50	52.1 AV	54.0	-1.9	3.11 H	169	16.90	35.20
5	4904.00	50.0 PK	74.0	-24.0	1.00 H	11	45.30	4.70
6	4904.00	36.5 AV	54.0	-17.5	1.00 H	11	31.80	4.70
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)
1	*2452.00	99.8 PK			2.21 V	60	64.80	35.00
2	*2452.00	88.7 AV			2.21 V	60	53.70	35.00
3	2483.50	66.4 PK	74.0	-7.6	2.21 V	60	31.20	35.20
4	2483.50	52.7 AV	54.0	-1.3	2.21 V	60	17.50	35.20
5	4904.00	50.6 PK	74.0	-23.4	1.00 V	103	45.90	4.70
6	4904.00	36.8 AV	54.0	-17.2	1.00 V	103	32.10	4.70

Remarks:

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

Chain B

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	60.9 PK	74.0	-13.1	3.22 H	222	26.10	34.80
2	2390.00	50.4 AV	54.0	-3.6	3.22 H	222	15.60	34.80
3	*2412.00	96.2 PK			3.22 H	222	61.30	34.90
4	*2412.00	93.5 AV			3.22 H	222	58.60	34.90
5	4824.00	49.7 PK	74.0	-24.3	1.77 H	126	45.30	4.40
6	4824.00	39.3 AV	54.0	-14.7	1.77 H	126	34.90	4.40
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)
1	2390.00	62.9 PK	74.0	-11.1	1.99 V	291	28.10	34.80
2	2390.00	52.4 AV	54.0	-1.6	1.99 V	291	17.60	34.80
3	*2412.00	100.9 PK			1.99 V	291	66.00	34.90
4	*2412.00	97.6 AV			1.99 V	291	62.70	34.90
5	4824.00	52.2 PK	74.0	-21.8	1.55 V	244	47.80	4.40
6	4824.00	45.6 AV	54.0	-8.4	1.55 V	244	41.20	4.40

Remarks:

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2437.00	96.6 PK			3.11 H	241	61.60	35.00
2	*2437.00	92.8 AV			3.11 H	241	57.80	35.00
3	4874.00	45.6 PK	74.0	-28.4	1.88 H	54	41.10	4.50
4	4874.00	39.9 AV	54.0	-14.1	1.88 H	54	35.40	4.50
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)
1	*2437.00	103.2 PK			1.98 V	16	68.20	35.00
2	*2437.00	99.6 AV			1.98 V	16	64.60	35.00
3	4874.00	53.4 PK	74.0	-20.6	1.49 V	106	48.90	4.50
4	4874.00	49.8 AV	54.0	-4.2	1.49 V	106	45.30	4.50

Remarks:

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2462.00	98.8 PK			3.11 H	299	63.60	35.20
2	*2462.00	95.3 AV			3.11 H	299	60.10	35.20
3	2483.50	62.5 PK	74.0	-11.5	3.11 H	299	27.30	35.20
4	2483.50	51.1 AV	54.0	-2.9	3.11 H	299	15.90	35.20
5	4924.00	51.8 PK	74.0	-22.2	1.87 H	26	47.10	4.70
6	4924.00	43.6 AV	54.0	-10.4	1.87 H	26	38.90	4.70
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)
1	*2462.00	104.3 PK			1.71 V	359	69.10	35.20
2	*2462.00	99.8 AV			1.71 V	359	64.60	35.20
3	2483.50	66.0 PK	74.0	-8.0	1.71 V	359	30.80	35.20
4	2483.50	52.2 AV	54.0	-1.8	1.71 V	359	17.00	35.20
5	4924.00	55.9 PK	74.0	-18.1	1.59 V	100	51.20	4.70
6	4924.00	51.8 AV	54.0	-2.2	1.59 V	100	47.10	4.70

Remarks:

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

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	61.5 PK	74.0	-12.5	3.11 H	292	26.70	34.80
2	2390.00	50.1 AV	54.0	-3.9	3.11 H	292	15.30	34.80
3	*2412.00	96.7 PK			3.11 H	292	61.80	34.90
4	*2412.00	87.2 AV			3.11 H	292	52.30	34.90
5	4824.00	49.3 PK	74.0	-24.7	1.71 H	100	44.90	4.40
6	4824.00	35.6 AV	54.0	-18.4	1.71 H	100	31.20	4.40
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)
1	2390.00	63.7 PK	74.0	-10.3	2.31 V	126	28.90	34.80
2	2390.00	51.6 AV	54.0	-2.4	2.31 V	126	16.80	34.80
3	*2412.00	102.3 PK			2.31 V	126	67.40	34.90
4	*2412.00	92.1 AV			2.31 V	126	57.20	34.90
5	4824.00	49.5 PK	74.0	-24.5	1.21 V	23	45.10	4.40
6	4824.00	36.2 AV	54.0	-17.8	1.21 V	23	31.80	4.40

Remarks:

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2437.00	103.6 PK			3.21 H	299	68.60	35.00
2	*2437.00	94.7 AV			3.21 H	299	59.70	35.00
3	4874.00	44.9 PK	74.0	-29.1	1.71 H	45	40.40	4.50
4	4874.00	31.1 AV	54.0	-22.9	1.71 H	45	26.60	4.50
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)
1	*2437.00	105.8 PK			2.23 V	141	70.80	35.00
2	*2437.00	96.7 AV			2.23 V	141	61.70	35.00
3	4874.00	49.6 PK	74.0	-24.4	1.06 V	97	45.10	4.50
4	4874.00	36.1 AV	54.0	-17.9	1.06 V	97	31.60	4.50

Remarks:

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2462.00	101.3 PK			3.56 H	344	66.10	35.20
2	*2462.00	92.1 AV			3.56 H	344	56.90	35.20
3	2483.50	63.7 PK	74.0	-10.3	3.56 H	344	28.50	35.20
4	2483.50	51.0 AV	54.0	-3.0	3.56 H	344	15.80	35.20
5	4904.00	49.6 PK	74.0	-24.4	1.59 H	100	44.90	4.70
6	4904.00	36.2 AV	54.0	-17.8	1.59 H	100	31.50	4.70
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)
1	*2462.00	103.1 PK			1.99 V	143	67.90	35.20
2	*2462.00	94.2 AV			1.99 V	143	59.00	35.20
3	2483.50	64.8 PK	74.0	-9.2	1.99 V	143	29.60	35.20
4	2483.50	52.1 AV	54.0	-1.9	1.99 V	143	16.90	35.20
5	4924.00	50.0 PK	74.0	-24.0	1.06 V	60	45.30	4.70
6	4924.00	36.5 AV	54.0	-17.5	1.06 V	60	31.80	4.70

Remarks:

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

802.11n (20MHz)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	60.1 PK	74.0	-13.9	3.08 H	216	25.30	34.80
2	2390.00	49.6 AV	54.0	-4.4	3.08 H	216	14.80	34.80
3	*2412.00	96.7 PK			3.08 H	216	61.80	34.90
4	*2412.00	87.1 AV			3.08 H	216	52.20	34.90
5	4824.00	48.7 PK	74.0	-25.3	1.54 H	71	44.30	4.40
6	4824.00	35.4 AV	54.0	-18.6	1.54 H	71	31.00	4.40
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)
1	2390.00	66.0 PK	74.0	-8.0	1.99 V	26	31.20	34.80
2	2390.00	52.4 AV	54.0	-1.6	1.99 V	26	17.60	34.80
3	*2412.00	101.8 PK			1.99 V	26	66.90	34.90
4	*2412.00	91.8 AV			1.99 V	26	56.90	34.90
5	4824.00	48.9 PK	74.0	-25.1	1.06 V	121	44.50	4.40
6	4824.00	35.7 AV	54.0	-18.3	1.06 V	121	31.30	4.40

Remarks:

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2437.00	103.4 PK			3.51 H	321	68.40	35.00
2	*2437.00	94.2 AV			3.51 H	321	59.20	35.00
3	4874.00	49.3 PK	74.0	-24.7	1.47 H	79	44.80	4.50
4	4874.00	35.9 AV	54.0	-18.1	1.47 H	79	31.40	4.50
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)
1	*2437.00	104.7 PK			1.88 V	6	69.70	35.00
2	*2437.00	96.1 AV			1.88 V	6	61.10	35.00
3	4874.00	49.6 PK	74.0	-24.4	1.00 V	55	45.10	4.50
4	4874.00	36.3 AV	54.0	-17.7	1.00 V	55	31.80	4.50

Remarks:

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2462.00	101.3 PK			3.25 H	344	66.10	35.20
2	*2462.00	92.1 AV			3.25 H	344	56.90	35.20
3	2483.50	63.8 PK	74.0	-10.2	3.25 H	344	28.60	35.20
4	2483.50	51.7 AV	54.0	-2.3	3.25 H	344	16.50	35.20
5	4924.00	49.5 PK	74.0	-24.5	1.57 H	98	44.80	4.70
6	4924.00	36.1 AV	54.0	-17.9	1.57 H	98	31.40	4.70
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)
1	*2462.00	102.0 PK			2.12 V	133	66.80	35.20
2	*2462.00	93.1 AV			2.12 V	133	57.90	35.20
3	2483.50	63.3 PK	74.0	-10.7	2.12 V	133	28.10	35.20
4	2483.50	51.9 AV	54.0	-2.1	2.12 V	133	16.70	35.20
5	4924.00	49.8 PK	74.0	-24.2	1.07 V	199	45.10	4.70
6	4924.00	36.6 AV	54.0	-17.4	1.07 V	199	31.90	4.70

Remarks:

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

802.11n (40MHz)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	59.4 PK	74.0	-14.6	3.01 H	163	24.60	34.80
2	2390.00	49.4 AV	54.0	-4.6	3.01 H	163	14.60	34.80
3	*2422.00	94.2 PK			3.01 H	163	59.20	35.00
4	*2422.00	84.9 AV			3.01 H	163	49.90	35.00
5	4844.00	48.7 PK	74.0	-25.3	1.45 H	80	44.20	4.50
6	4844.00	35.5 AV	54.0	-18.5	1.45 H	80	31.00	4.50
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)
1	2390.00	62.9 PK	74.0	-11.1	1.99 V	319	28.10	34.80
2	2390.00	52.6 AV	54.0	-1.4	1.99 V	319	17.80	34.80
3	*2422.00	96.9 PK			1.99 V	319	61.90	35.00
4	*2422.00	88.3 AV			1.99 V	319	53.30	35.00
5	4844.00	48.8 PK	74.0	-25.2	1.06 V	87	44.30	4.50
6	4844.00	35.7 AV	54.0	-18.3	1.06 V	87	31.20	4.50

Remarks:

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2437.00	98.9 PK			3.01 H	341	63.90	35.00
2	*2437.00	89.7 AV			3.01 H	341	54.70	35.00
3	4874.00	48.8 PK	74.0	-25.2	1.34 H	249	44.30	4.50
4	4874.00	34.6 AV	54.0	-19.4	1.34 H	249	30.10	4.50
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)
1	*2437.00	101.2 PK			1.91 V	133	66.20	35.00
2	*2437.00	91.6 AV			1.91 V	133	56.60	35.00
3	4874.00	49.0 PK	74.0	-25.0	1.00 V	13	44.50	4.50
4	4874.00	35.3 AV	54.0	-18.7	1.00 V	13	30.80	4.50

Remarks:

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

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2452.00	99.6 PK			3.23 H	298	64.60	35.00
2	*2452.00	89.4 AV			3.23 H	298	54.40	35.00
3	2483.50	61.0 PK	74.0	-13.0	3.23 H	298	25.80	35.20
4	2483.50	50.9 AV	54.0	-3.1	3.23 H	298	15.70	35.20
5	4904.00	49.3 PK	74.0	-24.7	1.72 H	188	44.60	4.70
6	4904.00	36.0 AV	54.0	-18.0	1.72 H	188	31.30	4.70
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)
1	*2452.00	100.9 PK			3.26 V	103	65.90	35.00
2	*2452.00	91.7 AV			3.26 V	103	56.70	35.00
3	2483.50	62.1 PK	74.0	-11.9	3.26 V	103	26.90	35.20
4	2483.50	51.5 AV	54.0	-2.5	3.26 V	103	16.30	35.20
5	4904.00	49.5 PK	74.0	-24.5	1.04 V	229	44.80	4.70
6	4904.00	36.2 AV	54.0	-17.8	1.04 V	229	31.50	4.70

Remarks:

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

Chain A + B

802.11n (20MHz)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	65.7 PK	74.0	-8.3	1.77 H	47	30.90	34.80
2	2390.00	51.6 AV	54.0	-2.4	1.77 H	47	16.80	34.80
3	*2412.00	97.8 PK			1.77 H	47	62.90	34.90
4	*2412.00	93.4 AV			1.77 H	47	58.50	34.90
5	4824.00	50.2 PK	74.0	-23.8	1.32 H	140	45.80	4.40
6	4824.00	38.7 AV	54.0	-15.3	1.32 H	140	34.30	4.40
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)
1	2390.00	66.0 PK	74.0	-8.0	2.14 V	33	31.20	34.80
2	2390.00	51.9 AV	54.0	-2.1	2.14 V	33	17.10	34.80
3	*2412.00	101.9 PK			2.14 V	33	67.00	34.90
4	*2412.00	97.8 AV			2.14 V	33	62.90	34.90
5	4824.00	52.0 PK	74.0	-22.0	1.00 V	319	47.60	4.40
6	4824.00	42.3 AV	54.0	-11.7	1.00 V	319	37.90	4.40

Remarks:

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2437.00	99.7 PK			2.65 H	78	64.70	35.00
2	*2437.00	95.5 AV			2.65 H	78	60.50	35.00
3	4874.00	52.1 PK	74.0	-21.9	1.62 H	198	47.60	4.50
4	4874.00	42.3 AV	54.0	-11.7	1.62 H	198	37.80	4.50
5	7311.00	58.3 PK	74.0	-15.7	1.03 H	5	48.20	10.10
6	7311.00	44.4 AV	54.0	-9.6	1.03 H	5	34.30	10.10
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)
1	*2437.00	102.1 PK			1.81 V	50	67.10	35.00
2	*2437.00	97.8 AV			1.81 V	50	62.80	35.00
3	4874.00	54.4 PK	74.0	-19.6	1.29 V	299	49.90	4.50
4	4874.00	47.1 AV	54.0	-6.9	1.29 V	299	42.60	4.50
5	7311.00	59.9 PK	74.0	-14.1	1.06 V	38	49.80	10.10
6	7311.00	45.3 AV	54.0	-8.7	1.06 V	38	35.20	10.10

Remarks:

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2462.00	103.6 PK			2.62 H	49	68.40	35.20
2	*2462.00	93.3 AV			2.62 H	49	58.10	35.20
3	2483.50	71.3 PK	74.0	-2.7	2.62 H	49	36.10	35.20
4	2483.50	52.7 AV	54.0	-1.3	2.62 H	49	17.50	35.20
5	4924.00	50.8 PK	74.0	-23.2	1.77 H	138	46.10	4.70
6	4924.00	38.9 AV	54.0	-15.1	1.77 H	138	34.20	4.70
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)
1	*2462.00	106.5 PK			1.89 V	63	71.30	35.20
2	*2462.00	96.2 AV			1.89 V	63	61.00	35.20
3	2483.50	71.5 PK	74.0	-2.5	1.89 V	63	36.30	35.20
4	**2483.50**	**53.0 AV**	**54.0**	**-1.0**	**1.89 V**	**63**	**17.80**	**35.20**
5	4924.00	51.6 PK	74.0	-22.4	1.52 V	110	46.90	4.70
6	4924.00	39.8 AV	54.0	-14.2	1.52 V	110	35.10	4.70

Remarks:

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

802.11n (40MHz)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	66.9 PK	74.0	-7.1	3.11 H	20	32.10	34.80
2	2390.00	52.0 AV	54.0	-2.0	3.11 H	20	17.20	34.80
3	*2422.00	98.1 PK			3.11 H	20	63.10	35.00
4	*2422.00	87.4 AV			3.11 H	20	52.40	35.00
5	4844.00	51.3 PK	74.0	-22.7	1.72 H	111	46.80	4.50
6	4844.00	37.9 AV	54.0	-16.1	1.72 H	111	33.40	4.50
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)
1	2390.00	69.3 PK	74.0	-4.7	2.47 V	66	34.50	34.80
2	**2390.00**	**53.0 AV**	**54.0**	**-1.0**	**2.47 V**	**66**	**18.20**	**34.80**
3	*2422.00	101.1 PK			2.47 V	66	66.10	35.00
4	*2422.00	90.8 AV			2.47 V	66	55.80	35.00
5	4844.00	53.7 PK	74.0	-20.3	1.71 V	133	49.20	4.50
6	4844.00	38.5 AV	54.0	-15.5	1.71 V	133	34.00	4.50

Remarks:

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	67.0 PK	74.0	-7.0	2.62 H	333	32.20	34.80
2	2390.00	52.0 AV	54.0	-2.0	2.62 H	333	17.20	34.80
3	*2437.00	100.1 PK			2.62 H	333	65.10	35.00
4	*2437.00	90.1 AV			2.62 H	333	55.10	35.00
5	2483.50	71.7 PK	74.0	-2.3	2.62 H	333	36.50	35.20
6	2483.50	52.5 AV	54.0	-1.5	2.62 H	333	17.30	35.20
7	4874.00	52.3 PK	74.0	-21.7	1.74 H	203	47.80	4.50
8	4874.00	38.0 AV	54.0	-16.0	1.74 H	203	33.50	4.50
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)
1	2390.00	68.7 PK	74.0	-5.3	1.87 V	10	33.90	34.80
2	2390.00	52.8 AV	54.0	-1.2	1.87 V	10	18.00	34.80
3	*2437.00	104.2 PK			1.87 V	10	69.20	35.00
4	*2437.00	93.4 AV			1.87 V	10	58.40	35.00
5	2483.50	72.0 PK	74.0	-2.0	1.87 V	10	36.80	35.20
6	**2483.50**	**53.0 AV**	**54.0**	**-1.0**	**1.87 V**	**10**	**17.80**	**35.20**
7	4874.00	54.1 PK	74.0	-19.9	1.69 V	271	49.60	4.50
8	4874.00	39.3 AV	54.0	-14.7	1.69 V	271	34.80	4.50

Remarks:

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

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	*2452.00	100.9 PK			2.75 H	30	65.90	35.00
2	*2452.00	89.1 AV			2.75 H	30	54.10	35.00
3	2483.50	70.1 PK	74.0	-3.9	2.75 H	30	34.90	35.20
4	2483.50	52.4 AV	54.0	-1.6	2.75 H	30	17.20	35.20
5	4904.00	49.9 PK	74.0	-24.1	1.00 H	133	45.20	4.70
6	4904.00	36.5 AV	54.0	-17.5	1.00 H	133	31.80	4.70
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)
1	*2452.00	103.2 PK			2.44 V	16	68.20	35.00
2	*2452.00	92.1 AV			2.44 V	16	57.10	35.00
3	2483.50	72.3 PK	74.0	-1.7	2.44 V	16	37.10	35.20
4	**2483.50**	**53.0 AV**	**54.0**	**-1.0**	**2.44 V**	**16**	**17.80**	**35.20**
5	4904.00	50.0 PK	74.0	-24.0	1.68 V	189	45.30	4.70
6	4904.00	37.6 AV	54.0	-16.4	1.68 V	189	32.90	4.70

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable 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:

Chain A

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
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	30.00	31.9 QP	40.0	-8.1	1.26 H	265	47.5	-15.6
2	57.16	32.7 QP	40.0	-7.3	1.26 H	227	47.0	-14.3
3	175.50	37.6 QP	43.5	-5.9	1.51 H	215	51.4	-13.8
4	206.54	38.0 QP	43.5	-5.5	1.26 H	268	54.0	-16.0
5	515.00	32.7 QP	46.0	-13.3	1.01 H	235	38.9	-6.2
6	627.52	32.5 QP	46.0	-13.5	1.26 H	203	35.6	-3.1
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)
1	30.00	32.5 QP	40.0	-7.5	1.24 V	292	48.1	-15.6
2	95.96	36.7 QP	43.5	-6.8	1.24 V	283	55.6	-18.9
3	175.50	36.1 QP	43.5	-7.4	1.00 V	13	49.9	-13.8
4	206.54	35.6 QP	43.5	-7.9	1.00 V	127	51.6	-16.0
5	515.00	38.4 QP	46.0	-7.6	1.24 V	7	44.6	-6.2
6	588.72	37.5 QP	46.0	-8.5	1.24 V	189	41.7	-4.2

Remarks:

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

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	B		

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	30.00	27.3 QP	40.0	-12.7	1.50 H	200	42.9	-15.6
2	76.56	24.6 QP	40.0	-15.4	1.26 H	280	41.9	-17.3
3	208.48	27.5 QP	43.5	-16.0	1.26 H	245	43.5	-16.0
4	249.22	25.1 QP	46.0	-20.9	1.26 H	125	38.5	-13.4
5	685.72	32.3 QP	46.0	-13.7	2.00 H	70	34.4	-2.1
6	827.34	38.3 QP	46.0	-7.7	1.50 H	9	37.0	1.3
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)
1	30.00	37.4 QP	40.0	-2.6	1.00 V	345	53.0	-15.6
2	66.86	28.5 QP	40.0	-11.5	1.99 V	309	44.0	-15.5
3	256.98	24.4 QP	46.0	-21.6	1.24 V	293	37.5	-13.1
4	499.48	28.8 QP	46.0	-17.2	1.00 V	165	35.3	-6.5
5	827.34	38.0 QP	46.0	-8.0	1.99 V	11	36.7	1.3
6	897.18	41.4 QP	46.0	-4.6	1.00 V	121	38.6	2.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable 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 (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	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.

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Nov. 16, 2015	Nov. 15, 2016
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond1-01	Dec. 26, 2015	Dec. 25, 2016
LISN/AMN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Feb. 26, 2016	Feb. 25, 2017
LISN/AMN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100220	Nov. 13, 2015	Nov. 12, 2016
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.

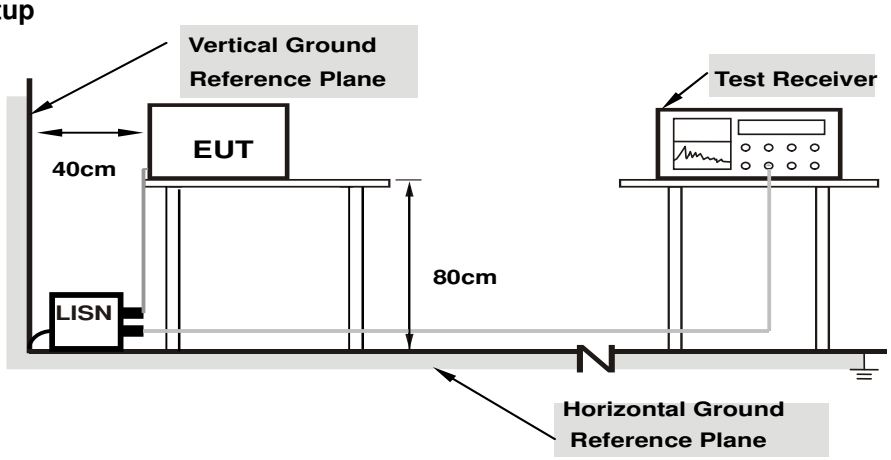
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



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

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

Chain A

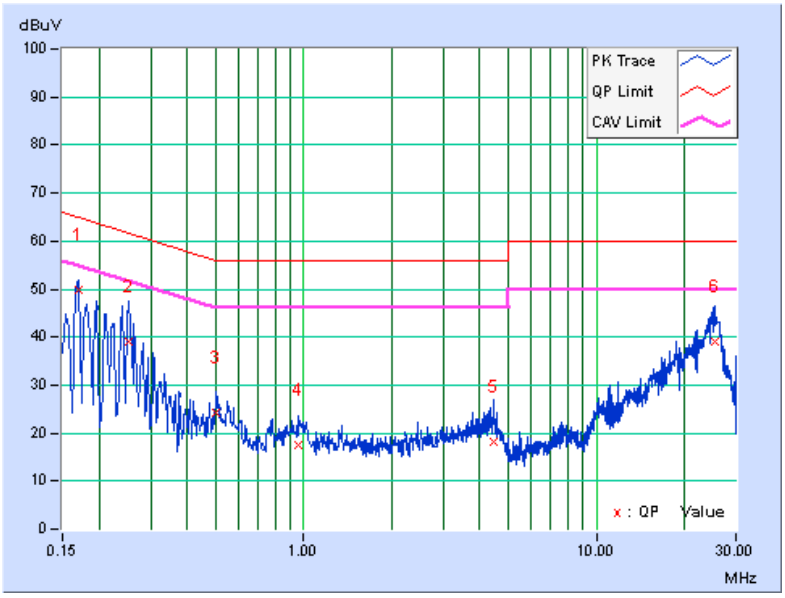
802.11b

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16955	10.02	39.96	22.87	49.98	32.89	64.98	54.98	-15.00	-22.09
2	0.25192	10.05	28.84	14.18	38.89	24.23	61.69	51.69	-22.80	-27.46
3	0.50190	10.13	13.98	6.29	24.11	16.42	56.00	46.00	-31.89	-29.58
4	0.95937	10.19	7.26	2.21	17.45	12.40	56.00	46.00	-38.55	-33.60
5	4.46273	10.43	7.92	-1.02	18.35	9.41	56.00	46.00	-37.65	-36.59
6	25.33822	11.69	27.35	17.99	39.04	29.68	60.00	50.00	-20.96	-20.32

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.

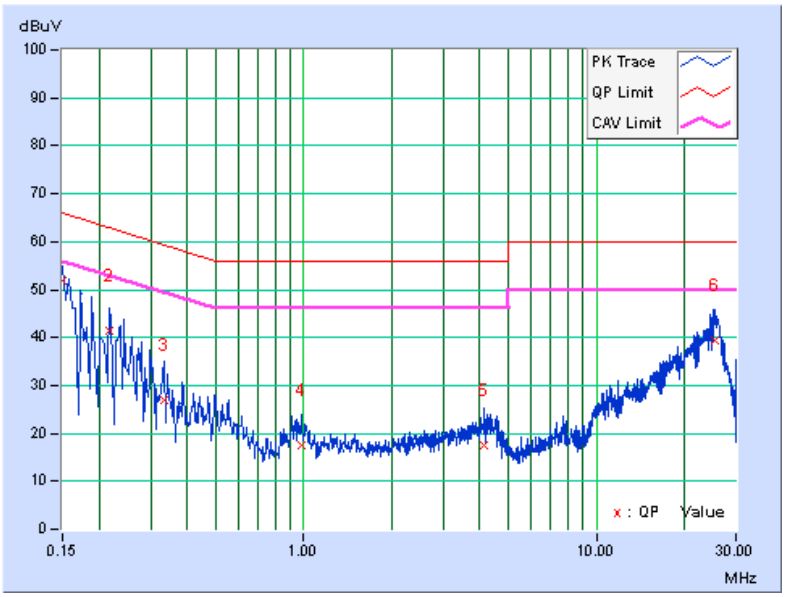


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	**0.15000**	**10.03**	**41.98**	**25.23**	**52.01**	**35.26**	**66.00**	**56.00**	**-13.99**	**-20.74**
2	0.21647	10.05	31.43	16.57	41.48	26.62	62.95	52.95	-21.47	-26.33
3	0.33377	10.10	16.76	5.67	26.86	15.77	59.36	49.36	-32.50	-33.59
4	0.97892	10.21	7.16	1.84	17.37	12.05	56.00	46.00	-38.63	-33.95
5	4.12647	10.44	7.12	-0.62	17.56	9.82	56.00	46.00	-38.44	-36.18
6	25.32649	11.84	27.52	18.09	39.36	29.93	60.00	50.00	-20.64	-20.07

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.

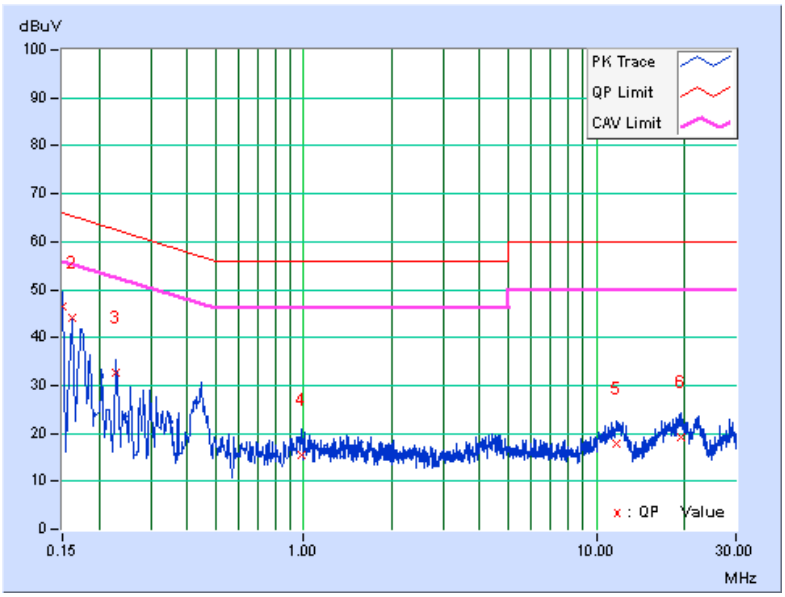


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.01	36.44	19.56	46.45	29.57	66.00	56.00	-19.55	-26.43
2	0.16173	10.02	34.22	18.23	44.24	28.25	65.37	55.37	-21.13	-27.12
3	0.22820	10.04	22.76	8.59	32.80	18.63	62.51	52.51	-29.71	-33.88
4	0.97892	10.20	5.17	-0.11	15.37	10.09	56.00	46.00	-40.63	-35.91
5	11.76270	10.83	6.95	2.22	17.78	13.05	60.00	50.00	-42.22	-36.95
6	19.40284	11.32	7.90	1.54	19.22	12.86	60.00	50.00	-40.78	-37.14

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.

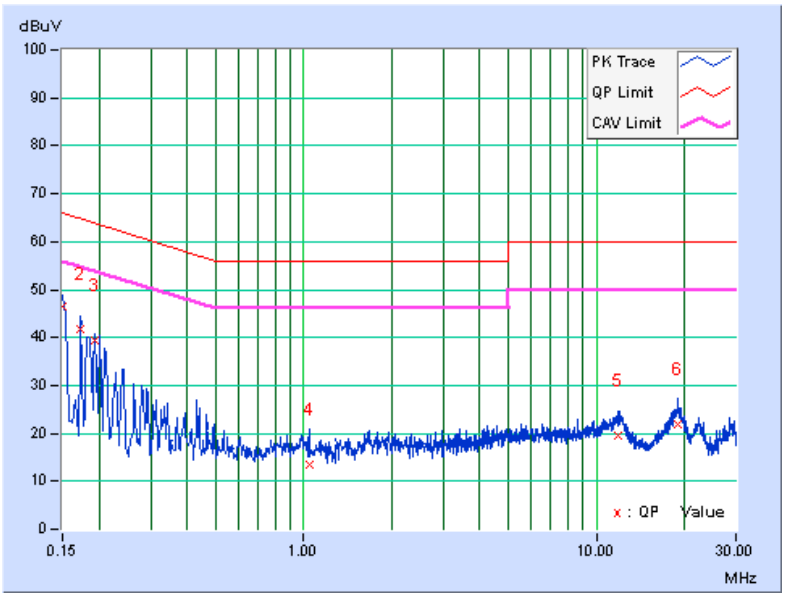


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.03	36.58	20.36	46.61	30.39	66.00	56.00	-19.39	-25.61
2	0.17346	10.03	31.83	14.84	41.86	24.87	64.79	54.79	-22.93	-29.92
3	0.19305	10.04	29.23	13.40	39.27	23.44	63.90	53.90	-24.63	-30.46
4	1.04148	10.21	3.33	-0.75	13.54	9.46	56.00	46.00	-42.46	-36.54
5	11.84481	10.91	8.52	2.59	19.43	13.50	60.00	50.00	-40.57	-36.50
6	18.94537	11.40	10.41	4.65	21.81	16.05	60.00	50.00	-38.19	-33.95

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 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – 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.

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

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