FCC Test Report

Report No.:	RF161111C42-1
FCC ID:	VPQ-PIXIUMDHXA222
Test Model:	DHXA-222
Received Date:	Nov. 11, 2016
Test Date:	Feb. 02 ~ Feb. 22, 2017
Issued Date:	Mar. 07, 2017
Applicant:	TRIXELL
Address:	460, rue du Pommarin 38430 Moirans, France
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
RF161111C42-1	Original release.	Mar. 07, 2017

1 Certificate of Conformity

Product:	pixium 3543 DR
Brand:	TRIXELL
Test Model:	DHXA-222
Sample Status:	Engineering sample
Applicant:	TRIXELL
Test Date:	Feb. 02 ~ Feb. 22, 2017
Standards:	47 CFR FCC Part 15, Subpart E (Section 15.407) 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 : _____ , **Date:** Mar. 07, 2017

Suntee Liu / Specialist

Approved by : _____ , **Date:** Mar. 07, 2017

Ken Liu / Senior Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(6)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -6.91dB at 0.15000MHz.
15.407(b) (1/2/3/4(i/ii)/6)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -1.0dB at 11000.00, 11400.00, 16740.00, 172350.00, 17355.00MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	-	Reference only.
15.407(a)(1/2/3)	Peak Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6dB bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	Antenna connector is UFL not a standard connector.

*For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOBE test plots were recorded in Annex A.

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 ports	150kHz ~ 30MHz	2.44 dB
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	3.59 dB
	200MHz ~1000MHz	3.60 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	pixium 3543 DR
Brand	TRIXELL
Test Model	DHXA-222
Sample Status	Engineering sample
Power Supply Rating	3.3Vdc (host equipment)
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM
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 300Mbps
Operating Frequency	5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5700MHz, 5745 ~ 5825MHz
Number of Channel	5180MHz ~ 5240MHz 802.11a, 802.11n (HT20): 4 802.11n (HT40): 2 5260MHz ~ 5320MHz: 802.11a, 802.11n (HT20): 4 802.11n (HT40): 2 5500MHz ~ 5700MHz: 802.11a, 802.11n (HT20): 8 802.11n (HT40): 3 5745MHz ~ 5825MHz: 802.11a, 802.11n (HT20): 5 802.11n (HT40): 2
Output Power	5180MHz ~ 5240MHz: 60.019mW 5260MHz ~ 5320MHz: 66.290mW 5500MHz ~ 5700MHz: 67.002mW 5745MHz ~ 5825MHz: 55.155mW
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	NA
Data Cable Supplied	NA

Note:

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

Modulation Mode	TX Function
802.11a	2TX
802.11n (HT20)	2TX
802.11n (HT40)	2TX

2. The EUT with follow antenna gain is listed as table below.

Antenna Type	Connector	Gain (dBi)				
		2.4~2.4835GHz	5.15~5.25GHz	5.25~5.35GHz	5.47~5.725GHz	5.725~5.85GHz
PCB	UFL	-0.77	1.26	1.26	0.17	1.83

* The 5GHz max. gain was chosen for final test.

3. The EUT has disabled the 5600-5650MHz band by S/W to avoid 5600-5650MHz.
4. WLAN 2.4GHz and WLAN 5GHz technology can not transmit at same time.

3.2 Description of Test Modes

For 5180 ~ 5240MHz

4 channels are provided for 802.11a, 802.11n (HT20):

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n (HT40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

For 5260 ~ 5320MHz

4 channels are provided for 802.11a, 802.11n (HT20):

Channel	Frequency	Channel	Frequency
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n (HT40):

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

For 5500 ~ 5700MHz

8 channels are provided for 802.11a, 802.11n (HT20):

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

3 channels are provided for 802.11n (HT40):

Channel	Frequency	Channel	Frequency
102	5510 MHz	134	5670 MHz
110	5550 MHz		

For 5745 ~ 5825MHz

5 channels are provided for 802.11a, 802.11n (HT20):

Channel	Frequency	Channel	Frequency
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

2 channels are provided for 802.11n (HT40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable to				Description
	RE≥1G	RE<1G	PLC	APCM	
-	√	√	√	√	-

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:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on Z-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)
-	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6.0
-	802.11n (HT20)		36 to 48	36, 40, 48	OFDM	BPSK	7.2
-	802.11n (HT40)		38 to 46	38, 46	OFDM	BPSK	15.0
-	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6.0
-	802.11n (HT20)		52 to 64	52, 60, 64	OFDM	BPSK	7.2
-	802.11n (HT40)		54 to 62	54, 62	OFDM	BPSK	15.0
-	802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	BPSK	6.0
-	802.11n (HT20)		100 to 140	100, 116, 140	OFDM	BPSK	7.2
-	802.11n (HT40)		102 to 134	102, 110, 134	OFDM	BPSK	15.0
-	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6.0
-	802.11n (HT20)		149 to 165	149, 157, 165	OFDM	BPSK	7.2
-	802.11n (HT40)		151 to 159	151, 159	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	Freq. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	802.11a	5180-5240	36 to 48	100	OFDM	BPSK	6.0
		5260-5320	52 to 64		OFDM	BPSK	6.0
		5500-5700	100 to 140		OFDM	BPSK	6.0
		5745-5825	149 to 165		OFDM	BPSK	6.0

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	Freq. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	802.11a	5180-5240	36 to 48	100	OFDM	BPSK	6.0
		5260-5320	52 to 64		OFDM	BPSK	6.0
		5500-5700	100 to 140		OFDM	BPSK	6.0
		5745-5825	149 to 165		OFDM	BPSK	6.0

Antenna Port Conducted Measurement:

☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

☒ 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)
-	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6.0
-	802.11n (HT20)		36 to 48	36, 40, 48	OFDM	BPSK	7.2
-	802.11n (HT40)		38 to 46	38, 46	OFDM	BPSK	15.0
-	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6.0
-	802.11n (HT20)		52 to 64	52, 60, 64	OFDM	BPSK	7.2
-	802.11n (HT40)		54 to 62	54, 62	OFDM	BPSK	15.0
-	802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	BPSK	6.0
-	802.11n (HT20)		100 to 140	100, 116, 140	OFDM	BPSK	7.2
-	802.11n (HT40)		102 to 134	102, 110, 134	OFDM	BPSK	15.0
-	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6.0
-	802.11n (HT20)		149 to 165	149, 157, 165	OFDM	BPSK	7.2
-	802.11n (HT40)		151 to 159	151, 159	OFDM	BPSK	15.0

Test Condition:

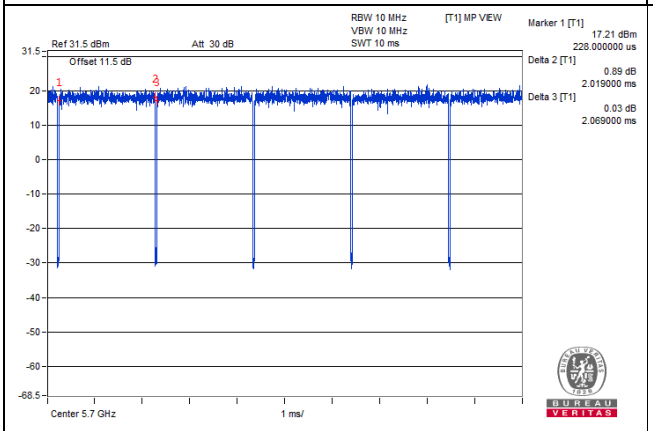
Applicable To	Environmental Conditions	Input Power (System)	Tested By
RE≥1G	25deg. C, 69%RH	120Vac, 60Hz	Tank Wu
RE<1G	25deg. C, 69%RH	120Vac, 60Hz	Tank Wu
PLC	25deg. C, 75%RH	120Vac, 60Hz	Tank Wu
APCM	25deg. C, 60%RH	120Vac, 60Hz	Nick Hsu

3.3 Duty Cycle of Test Signal

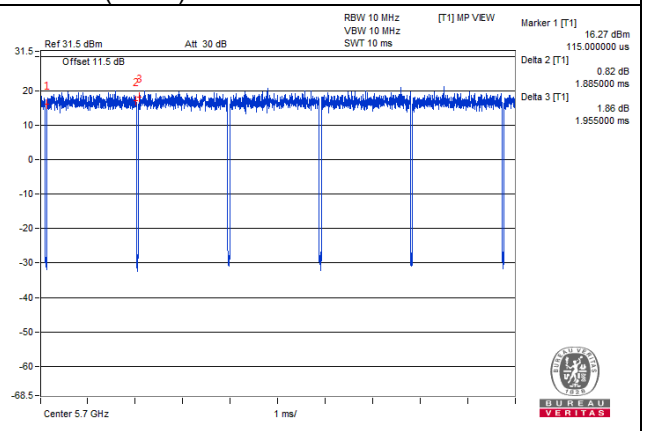
Duty cycle of test signal is ≥ 98%, duty factor is not required.
Duty cycle of test signal is < 98%, duty factor shall be considered.

802.11a: Duty cycle = 2.019/2.069 = 0.976, Duty factor = 10 * log(1/0.976) = 0.11
802.11n (HT20): Duty cycle = 1.885/1.955 = 0.964, Duty factor = 10 * log(1/0.964) = 0.16
802.11n (HT40): Duty cycle = 0.929/0.977 = 0.951, Duty factor = 10 * log(1/0.951) = 0.22

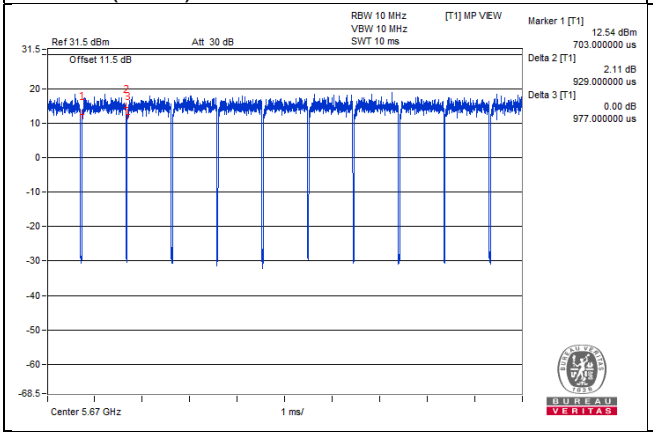
802.11a



802.11n (HT20)



802.11n (HT40)



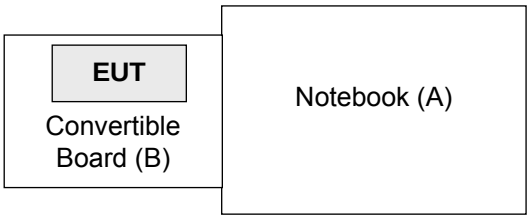
3.4 Description of Support Units

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.	Notebook	DELL	E5430	2RL3YW1	FCC DoC Approved	-
B.	Convertible Board	NA	NA	NA	NA	-

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

3.4.1 Configuration of System under Test



3.5 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 D02 General UNII Test Procedures New Rules v01r03
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.

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.

Limits of unwanted emission out of the restricted bands

<table>
<tr><td colspan="3">Applicable To</td><td colspan="2">Limit</td></tr>
<tr><td colspan="3" rowspan="2">789033 D02 General UNII Test Procedure New Rules v01r03</td><td colspan="2">Field Strength at 3m</td></tr>
<tr><td>PK: 74 (dBµV/m)</td><td>AV: 54 (dBµV/m)</td></tr>
<tr><td>Frequency Band</td><td colspan="2">Applicable To</td><td>EIRP Limit</td><td>Equivalent Field Strength at 3m</td></tr>
<tr><td>5150~5250 MHz</td><td colspan="2">15.407(b)(1)</td><td rowspan="3">PK: -27 (dBm/MHz)</td><td rowspan="3">PK: 68.2(dBµV/m)</td></tr>
<tr><td>5250~5350 MHz</td><td colspan="2">15.407(b)(2)</td></tr>
<tr><td>5470~5725 MHz</td><td colspan="2">15.407(b)(3)</td></tr>
<tr><td rowspan="2">5725~5850 MHz</td><td>☒</td><td>15.407(b)(4)(i)</td><td>PK: -27 (dBm/MHz) *1
PK: 10 (dBm/MHz) *2
PK: 15.6 (dBm/MHz) *3
PK: 27 (dBm/MHz) *4</td><td>PK: 68.2(dBµV/m) *1
PK: 105.2 (dBµV/m) *2
PK: 110.8(dBµV/m) *3
PK: 122.2 (dBµV/m) *4</td></tr>
<tr><td>☐</td><td>15.407(b)(4)(ii)</td><td colspan="2">Emission limits in section 15.247(d)</td></tr>
<tr><td colspan="5">*1 beyond 75 MHz or more above of the band edge.
*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.
*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.
*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</td></tr>
</table>

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

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

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100424	Oct. 24, 2016	Oct. 23, 2017
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	Apr. 19, 2016	Apr. 18, 2017
BILOG Antenna SCHWARZBECK	VULB9168	9168-148	Dec. 28, 2016	Dec. 27, 2017
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1169	Dec. 27, 2016	Dec. 26, 2017
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Dec. 14, 2016	Dec. 13, 2017
Loop Antenna	EM-6879	269	Aug. 11, 2016	Aug. 10, 2017
Preamplifier Agilent	8449B	3008A01638	Feb. 22, 2016	Feb. 21, 2017
			Feb. 22, 2017	Feb. 21, 2018
Preamplifier Agilent	8447D	2944A10638	Aug. 09, 2016	Aug. 08, 2017
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-02 (248780+MY13377)	Feb. 02, 2017	Feb. 01, 2018
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-03 (274092)	Aug. 09, 2016	Aug. 08, 2017
RF signal cable Woken	8D-FB	Cable-CH9-01	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
26GHz ~ 40GHz Amplifier	EM26400	815221	Oct. 17, 2016	Oct. 16, 2017
High Speed Peak Power Meter	ML2495A	0824012	Aug. 11, 2016	Aug. 10, 2017
Power Sensor	MA2411B	0738171	Aug. 11, 2016	Aug. 10, 2017

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:

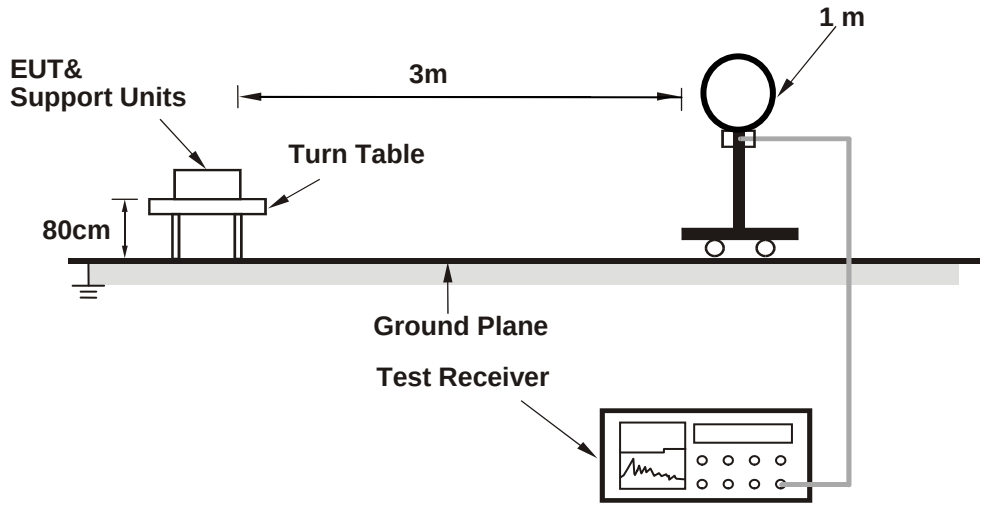
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.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

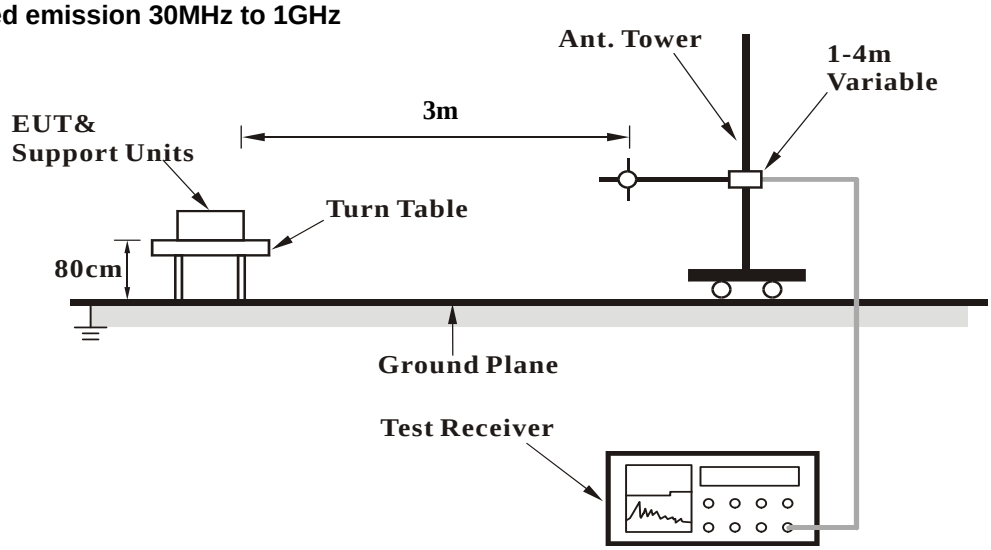
No deviation.

4.1.5 Test Set Up

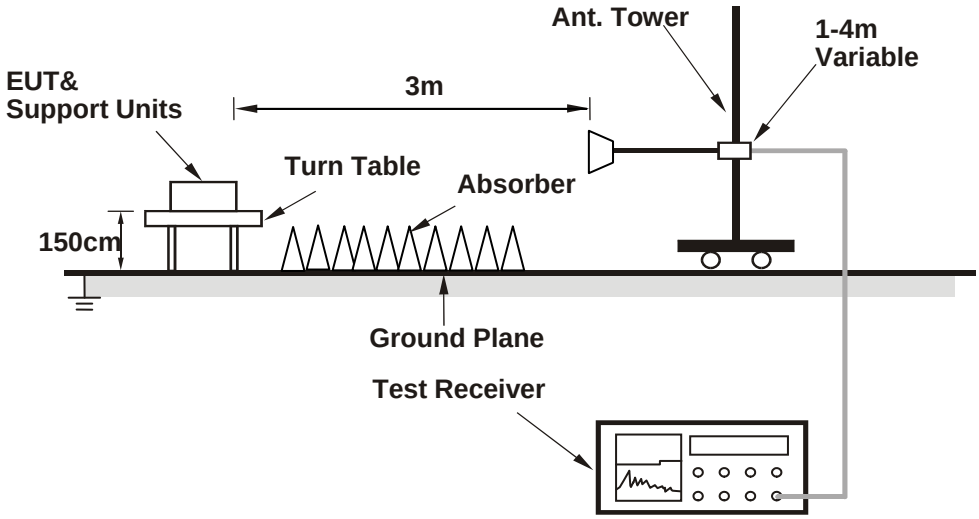
For Radiated emission below 30MHz



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

4.1.7 Test Results

Above 1GHz data:

802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	60.0 PK	74.0	-14.0	3.33 H	107	58.3	1.7
2	5150.00	44.3 AV	54.0	-9.7	3.33 H	107	42.6	1.7
3	*5180.00	98.8 PK			2.33 H	37	59.9	38.9
4	*5180.00	89.0 AV			2.33 H	37	50.1	38.9
5	#6906.00	53.8 PK	74.0	-20.2	1.66 H	234	46.7	7.1
6	#6906.00	46.8 AV	54.0	-7.2	1.66 H	234	39.7	7.1
7	#10360.00	61.6 PK	74.0	-12.4	3.05 H	117	47.5	14.1
8	#10360.00	47.8 AV	54.0	-6.2	3.05 H	117	33.7	14.1
9	15540.00	60.9 PK	74.0	-13.1	3.38 H	86	46.1	14.8
10	15540.00	48.4 AV	54.0	-5.6	3.38 H	86	33.6	14.8
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	5150.00	72.8 PK	74.0	-1.2	2.50 V	2	71.1	1.7
2	5150.00	51.4 AV	54.0	-2.6	2.50 V	2	49.7	1.7
3	*5180.00	112.9 PK			2.34 V	13	74.0	38.9
4	*5180.00	102.9 AV			2.34 V	13	64.0	38.9
5	#6906.00	53.0 PK	74.0	-21.0	1.62 V	352	45.9	7.1
6	#6906.00	44.3 AV	54.0	-9.7	1.62 V	352	37.2	7.1
7	#10360.00	62.2 PK	74.0	-11.8	3.33 V	46	48.1	14.1
8	#10360.00	48.7 AV	54.0	-5.3	3.33 V	46	34.6	14.1
9	15540.00	62.8 PK	74.0	-11.2	3.46 V	236	48.0	14.8
10	15540.00	49.6 AV	54.0	-4.4	3.46 V	236	34.8	14.8

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
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5200.00	99.3 PK			2.54 H	3	60.3	39.0
2	*5200.00	89.6 AV			2.54 H	3	50.6	39.0
3	#6933.00	53.1 PK	74.0	-20.9	1.70 H	236	45.9	7.2
4	#6933.00	43.3 AV	54.0	-10.7	1.70 H	236	36.1	7.2
5	#10400.00	61.9 PK	74.0	-12.1	3.11 H	12	47.5	14.4
6	#10400.00	48.5 AV	54.0	-5.5	3.11 H	12	34.1	14.4
7	15600.00	61.4 PK	74.0	-12.6	3.29 H	79	46.9	14.5
8	15600.00	48.3 AV	54.0	-5.7	3.29 H	79	33.8	14.5
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	*5200.00	113.7 PK			2.53 V	26	74.7	39.0
2	*5200.00	103.8 AV			2.53 V	26	64.8	39.0
3	#6933.00	51.5 PK	74.0	-22.5	1.98 V	18	44.3	7.2
4	#6933.00	41.8 AV	54.0	-12.2	1.98 V	18	34.6	7.2
5	#10400.00	62.1 PK	74.0	-11.9	3.46 V	219	47.7	14.4
6	#10400.00	49.3 AV	54.0	-4.7	3.46 V	219	34.9	14.4
7	15600.00	64.6 PK	74.0	-9.4	3.23 V	85	50.1	14.5
8	15600.00	49.1 AV	54.0	-4.9	3.23 V	85	34.6	14.5

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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5240.00	98.8 PK			2.66 H	33	59.8	39.0
2	*5240.00	88.9 AV			2.66 H	33	49.9	39.0
3	5350.00	55.4 PK	74.0	-18.6	3.26 H	99	53.2	2.2
4	5350.00	45.0 AV	54.0	-9.0	3.26 H	99	42.8	2.2
5	#6986.00	52.6 PK	74.0	-21.4	1.72 H	212	45.1	7.5
6	#6986.00	39.7 AV	54.0	-14.3	1.72 H	212	32.2	7.5
7	#10480.00	61.4 PK	74.0	-12.6	2.99 H	123	47.3	14.1
8	#10480.00	48.3 AV	54.0	-5.7	2.99 H	123	34.2	14.1
9	15720.00	62.6 PK	74.0	-11.4	3.33 H	92	48.2	14.4
10	15720.00	48.5 AV	54.0	-5.5	3.33 H	92	34.1	14.4
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	*5240.00	113.4 PK			2.51 V	25	74.4	39.0
2	*5240.00	104.1 AV			2.51 V	25	65.1	39.0
3	5350.00	57.2 PK	74.0	-16.8	2.59 V	7	55.0	2.2
4	5350.00	46.3 AV	54.0	-7.7	2.59 V	7	44.1	2.2
5	#6986.00	52.7 PK	74.0	-21.3	1.75 V	350	45.2	7.5
6	#6986.00	40.0 AV	54.0	-14.0	1.75 V	350	32.5	7.5
7	#10480.00	62.3 PK	74.0	-11.7	3.25 V	93	48.2	14.1
8	#10480.00	49.1 AV	54.0	-4.9	3.25 V	93	35.0	14.1
9	15720.00	64.4 PK	74.0	-9.6	3.25 V	243	50.0	14.4
10	15720.00	49.9 AV	54.0	-4.1	3.25 V	243	35.5	14.4

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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	54.8 PK	74.0	-19.2	3.23 H	112	53.1	1.7
2	5150.00	41.9 AV	54.0	-12.1	3.23 H	112	40.2	1.7
3	*5260.00	105.0 PK			2.01 H	248	65.9	39.1
4	*5260.00	94.8 AV			2.01 H	248	55.7	39.1
5	#7013.00	52.5 PK	74.0	-21.5	1.62 H	206	44.8	7.7
6	#7013.00	41.1 AV	54.0	-12.9	1.62 H	206	33.4	7.7
7	#10520.00	60.4 PK	74.0	-13.6	3.12 H	184	46.3	14.1
8	#10520.00	47.5 AV	54.0	-6.5	3.12 H	184	33.4	14.1
9	15780.00	60.7 PK	74.0	-13.3	3.41 H	44	46.5	14.2
10	15780.00	47.5 AV	54.0	-6.5	3.41 H	44	33.3	14.2
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	5150.00	54.9 PK	74.0	-19.1	2.49 V	17	53.2	1.7
2	5150.00	42.3 AV	54.0	-11.7	2.49 V	17	40.6	1.7
3	*5260.00	112.6 PK			1.98 V	2	73.5	39.1
4	*5260.00	102.8 AV			1.98 V	2	63.7	39.1
5	#7013.00	53.9 PK	74.0	-20.1	1.59 V	348	46.2	7.7
6	#7013.00	44.8 AV	54.0	-9.2	1.59 V	348	37.1	7.7
7	#10520.00	61.3 PK	74.0	-12.7	3.77 V	20	47.2	14.1
8	#10520.00	48.0 AV	54.0	-6.0	3.77 V	20	33.9	14.1
9	15780.00	61.8 PK	74.0	-12.2	2.83 V	45	47.6	14.2
10	15780.00	49.3 AV	54.0	-4.7	2.83 V	45	35.1	14.2

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
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5300.00	105.5 PK			2.04 H	249	66.3	39.2
2	*5300.00	95.5 AV			2.04 H	249	56.3	39.2
3	#7066.00	51.8 PK	74.0	-22.2	1.61 H	205	43.7	8.1
4	#7066.00	40.2 AV	54.0	-13.8	1.61 H	205	32.1	8.1
5	10600.00	59.5 PK	74.0	-14.5	3.45 H	184	45.2	14.3
6	10600.00	46.5 AV	54.0	-7.5	3.45 H	184	32.2	14.3
7	15900.00	62.1 PK	74.0	-11.9	3.92 H	139	47.2	14.9
8	15900.00	49.0 AV	54.0	-5.0	3.92 H	139	34.1	14.9
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	*5300.00	113.4 PK			2.19 V	19	74.2	39.2
2	*5300.00	103.3 AV			2.19 V	19	64.1	39.2
3	#7066.00	53.8 PK	74.0	-20.2	1.72 V	337	45.7	8.1
4	#7066.00	40.4 AV	54.0	-13.6	1.72 V	337	32.3	8.1
5	10600.00	66.3 PK	74.0	-7.7	3.57 V	105	52.0	14.3
6	10600.00	52.1 AV	54.0	-1.9	3.57 V	105	37.8	14.3
7	15900.00	64.8 PK	74.0	-9.2	3.29 V	31	49.9	14.9
8	15900.00	51.3 AV	54.0	-2.7	3.29 V	31	36.4	14.9

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 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5320.00	105.2 PK			2.13 H	250	66.0	39.2
2	*5320.00	95.3 AV			2.13 H	250	56.1	39.2
3	5350.00	63.4 PK	74.0	-10.6	2.10 H	252	61.2	2.2
4	5350.00	43.9 AV	54.0	-10.1	2.10 H	252	41.7	2.2
5	#7093.00	52.5 PK	74.0	-21.5	1.58 H	204	44.3	8.2
6	#7093.00	39.6 AV	54.0	-14.4	1.58 H	204	31.4	8.2
7	10640.00	60.0 PK	74.0	-14.0	3.32 H	174	45.6	14.4
8	10640.00	46.8 AV	54.0	-7.2	3.32 H	174	32.4	14.4
9	15960.00	62.1 PK	74.0	-11.9	3.81 H	142	47.5	14.6
10	15960.00	48.9 AV	54.0	-5.1	3.81 H	142	34.3	14.6
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	*5320.00	113.5 PK			2.13 V	2	74.3	39.2
2	*5320.00	103.4 AV			2.13 V	2	64.2	39.2
3	5350.00	69.7 PK	74.0	-4.3	2.24 V	6	67.5	2.2
4	5350.00	50.5 AV	54.0	-3.5	2.24 V	6	48.3	2.2
5	#7093.00	53.5 PK	74.0	-20.5	1.71 V	353	45.3	8.2
6	#7093.00	41.2 AV	54.0	-12.8	1.71 V	353	33.0	8.2
7	10640.00	63.8 PK	74.0	-10.2	3.59 V	101	49.4	14.4
8	10640.00	51.1 AV	54.0	-2.9	3.59 V	101	36.7	14.4
9	15960.00	64.5 PK	74.0	-9.5	2.99 V	43	49.9	14.6
10	15960.00	50.7 AV	54.0	-3.3	2.99 V	43	36.1	14.6

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 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5460.00	55.4 PK	74.0	-18.6	2.06 H	258	53.0	2.4
2	5460.00	42.7 AV	54.0	-11.3	2.06 H	258	40.3	2.4
3	#5470.00	62.3 PK	74.0	-11.7	2.04 H	251	59.9	2.4
4	#5470.00	44.0 AV	54.0	-10.0	2.04 H	251	41.6	2.4
5	*5500.00	104.8 PK			1.99 H	249	65.3	39.5
6	*5500.00	94.5 AV			1.99 H	249	55.0	39.5
7	7333.00	52.7 PK	74.0	-21.3	1.65 H	206	44.2	8.5
8	7333.00	39.3 AV	54.0	-14.7	1.65 H	206	30.8	8.5
9	11000.00	61.8 PK	74.0	-12.2	3.44 H	191	45.8	16.0
10	11000.00	48.9 AV	54.0	-5.1	3.44 H	191	32.9	16.0
11	#16500.00	61.1 PK	74.0	-12.9	3.91 H	123	46.2	14.9
12	#16500.00	48.3 AV	54.0	-5.7	3.91 H	123	33.4	14.9
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	5460.00	59.3 PK	74.0	-14.7	2.43 V	30	56.9	2.4
2	5460.00	44.5 AV	54.0	-9.5	2.43 V	30	42.1	2.4
3	#5470.00	68.4 PK	74.0	-5.6	2.37 V	28	66.0	2.4
4	#5470.00	49.7 AV	54.0	-4.3	2.37 V	28	47.3	2.4
5	*5500.00	111.2 PK			1.99 V	27	71.7	39.5
6	*5500.00	101.0 AV			1.99 V	27	61.5	39.5
7	7333.00	54.4 PK	74.0	-19.6	1.92 V	356	45.9	8.5
8	7333.00	40.7 AV	54.0	-13.3	1.92 V	356	32.2	8.5
9	11000.00	66.8 PK	74.0	-7.2	3.67 V	96	50.8	16.0
10	**11000.00**	**53.0 AV**	**54.0**	**-1.0**	**3.67 V**	**96**	**37.0**	**16.0**
11	#16500.00	61.6 PK	74.0	-12.4	3.39 V	37	46.7	14.9
12	#16500.00	48.8 AV	54.0	-5.2	3.39 V	37	33.9	14.9

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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5580.00	105.1 PK			1.92 H	251	65.4	39.7
2	*5580.00	95.1 AV			1.92 H	251	55.4	39.7
3	7440.00	53.9 PK	74.0	-20.1	1.90 H	203	44.6	9.3
4	7440.00	39.8 AV	54.0	-14.2	1.90 H	203	30.5	9.3
5	11160.00	60.5 PK	74.0	-13.5	3.49 H	201	45.2	15.3
6	11160.00	46.3 AV	54.0	-7.7	3.49 H	201	31.0	15.3
7	#16740.00	65.7 PK	74.0	-8.3	3.87 H	132	46.6	19.1
8	#16740.00	52.6 AV	54.0	-1.4	3.87 H	132	33.5	19.1
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	*5580.00	112.6 PK			2.28 V	24	72.9	39.7
2	*5580.00	103.4 AV			2.28 V	24	63.7	39.7
3	7440.00	55.1 PK	74.0	-18.9	1.82 V	307	45.8	9.3
4	7440.00	42.0 AV	54.0	-12.0	1.82 V	307	32.7	9.3
5	11160.00	60.9 PK	74.0	-13.1	3.35 V	101	45.6	15.3
6	11160.00	46.6 AV	54.0	-7.4	3.35 V	101	31.3	15.3
7	#16740.00	66.6 PK	74.0	-7.4	3.47 V	34	47.5	19.1
8	#16740.00	52.7 AV	54.0	-1.3	3.47 V	34	33.6	19.1

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 140	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5700.00	100.1 PK			1.98 H	249	60.2	39.9
2	*5700.00	89.8 AV			1.98 H	249	49.9	39.9
3	#5725.00	58.4 PK	74.0	-15.6	2.10 H	253	55.6	2.8
4	#5725.00	43.2 AV	54.0	-10.8	2.10 H	253	40.4	2.8
5	7600.00	53.4 PK	74.0	-20.6	2.94 H	233	44.5	8.9
6	7600.00	39.9 AV	54.0	-14.1	2.94 H	233	31.0	8.9
7	11400.00	63.6 PK	74.0	-10.4	3.29 H	187	48.9	14.7
8	11400.00	50.3 AV	54.0	-3.7	3.29 H	187	35.6	14.7
9	#17100.00	67.3 PK	74.0	-6.7	3.87 H	103	46.1	21.2
10	#17100.00	52.6 AV	54.0	-1.4	3.87 H	103	31.4	21.2
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	*5700.00	108.9 PK			2.02 V	26	69.0	39.9
2	*5700.00	99.3 AV			2.02 V	26	59.4	39.9
3	#5725.00	66.4 PK	74.0	-7.6	2.98 V	7	63.6	2.8
4	#5725.00	48.9 AV	54.0	-5.1	2.98 V	7	46.1	2.8
5	7600.00	55.1 PK	74.0	-18.9	1.77 V	293	46.2	8.9
6	7600.00	42.4 AV	54.0	-11.6	1.77 V	293	33.5	8.9
7	11400.00	67.1 PK	74.0	-6.9	3.68 V	98	52.4	14.7
8	**11400.00**	**53.0 AV**	**54.0**	**-1.0**	**3.68 V**	**98**	**38.3**	**14.7**
9	#17100.00	67.8 PK	74.0	-6.2	3.16 V	26	46.6	21.2
10	#17100.00	52.9 AV	54.0	-1.1	3.16 V	26	31.7	21.2

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
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5745.00	96.8 PK			2.43 H	48	56.9	39.9
2	*5745.00	86.7 AV			2.43 H	48	46.8	39.9
3	7660.00	53.2 PK	74.0	-20.8	2.33 H	240	44.2	9.0
4	7660.00	42.2 AV	54.0	-11.8	2.33 H	240	33.2	9.0
5	11490.00	62.3 PK	74.0	-11.7	3.43 H	90	47.6	14.7
6	11490.00	48.1 AV	54.0	-5.9	3.43 H	90	33.4	14.7
7	#17235.00	68.7 PK	74.0	-5.3	3.98 H	114	47.1	21.6
8	#17235.00	52.9 AV	54.0	-1.1	3.98 H	114	31.3	21.6
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	*5745.00	108.4 PK			2.03 V	19	68.5	39.9
2	*5745.00	98.5 AV			2.03 V	19	58.6	39.9
3	7660.00	54.2 PK	74.0	-19.8	2.04 V	98	45.2	9.0
4	7660.00	43.4 AV	54.0	-10.6	2.04 V	98	34.4	9.0
5	11490.00	62.9 PK	74.0	-11.1	3.01 V	20	48.2	14.7
6	11490.00	49.4 AV	54.0	-4.6	3.01 V	20	34.7	14.7
7	#17235.00	68.2 PK	74.0	-5.8	2.85 V	101	46.6	21.6
8	#17235.00	52.5 AV	54.0	-1.5	2.85 V	101	30.9	21.6

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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5785.00	96.5 PK			2.22 H	69	56.6	39.9
2	*5785.00	86.7 AV			2.22 H	69	46.8	39.9
3	7713.00	54.8 PK	74.0	-19.2	1.72 H	201	45.8	9.0
4	7713.00	41.7 AV	54.0	-12.3	1.72 H	201	32.7	9.0
5	11570.00	65.8 PK	74.0	-8.2	3.71 H	32	51.2	14.6
6	11570.00	51.3 AV	54.0	-2.7	3.71 H	32	36.7	14.6
7	#17355.00	68.5 PK	74.0	-5.5	2.89 H	238	47.7	20.8
8	#17355.00	52.8 AV	54.0	-1.2	2.89 H	238	32.0	20.8
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	*5785.00	106.1 PK			2.24 V	28	66.2	39.9
2	*5785.00	95.4 AV			2.24 V	28	55.5	39.9
3	7713.00	56.2 PK	74.0	-17.8	1.73 V	326	47.2	9.0
4	7713.00	43.2 AV	54.0	-10.8	1.73 V	326	34.2	9.0
5	11570.00	66.7 PK	74.0	-7.3	3.32 V	101	52.1	14.6
6	11570.00	51.7 AV	54.0	-2.3	3.32 V	101	37.1	14.6
7	#17355.00	67.5 PK	74.0	-6.5	3.72 V	36	46.7	20.8
8	#17355.00	52.6 AV	54.0	-1.4	3.72 V	36	31.8	20.8

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
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5825.00	101.3 PK			2.80 H	73	61.3	40.0
2	*5825.00	91.6 AV			2.80 H	73	51.6	40.0
3	#7766.00	54.9 PK	74.0	-19.1	1.77 H	223	45.8	9.1
4	#7766.00	42.1 AV	54.0	-11.9	1.77 H	223	33.0	9.1
5	11650.00	65.2 PK	74.0	-8.8	3.74 H	33	50.6	14.6
6	11650.00	50.5 AV	54.0	-3.5	3.74 H	33	35.9	14.6
7	#17475.00	67.1 PK	74.0	-6.9	2.92 H	258	46.5	20.6
8	#17475.00	52.9 AV	54.0	-1.1	2.92 H	258	32.3	20.6
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	*5825.00	106.8 PK			2.11 V	25	66.8	40.0
2	*5825.00	97.3 AV			2.11 V	25	57.3	40.0
3	#7766.00	56.7 PK	74.0	-17.3	1.69 V	344	47.6	9.1
4	#7766.00	44.0 AV	54.0	-10.0	1.69 V	344	34.9	9.1
5	11650.00	65.5 PK	74.0	-8.5	3.81 V	115	50.9	14.6
6	11650.00	50.8 AV	54.0	-3.2	3.81 V	115	36.2	14.6
7	#17475.00	66.9 PK	74.0	-7.1	3.62 V	40	46.3	20.6
8	#17475.00	52.7 AV	54.0	-1.3	3.62 V	40	32.1	20.6

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.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT20)

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	57.3 PK	74.0	-16.7	3.37 H	117	55.6	1.7
2	5150.00	42.9 AV	54.0	-11.1	3.37 H	117	41.2	1.7
3	*5180.00	96.3 PK			2.59 H	43	57.4	38.9
4	*5180.00	85.7 AV			2.59 H	43	46.8	38.9
5	#6906.00	53.2 PK	74.0	-20.8	1.78 H	232	46.1	7.1
6	#6906.00	46.2 AV	54.0	-7.8	1.78 H	232	39.1	7.1
7	#10360.00	59.2 PK	74.0	-14.8	3.49 H	121	45.1	14.1
8	#10360.00	46.3 AV	54.0	-7.7	3.49 H	121	32.2	14.1
9	15540.00	62.5 PK	74.0	-11.5	3.31 H	63	47.7	14.8
10	15540.00	48.9 AV	54.0	-5.1	3.31 H	63	34.1	14.8
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	5150.00	65.6 PK	74.0	-8.4	2.98 V	21	63.9	1.7
2	5150.00	46.9 AV	54.0	-7.1	2.98 V	21	45.2	1.7
3	*5180.00	110.6 PK			2.95 V	15	71.7	38.9
4	*5180.00	101.2 AV			2.95 V	15	62.3	38.9
5	#6906.00	52.1 PK	74.0	-21.9	1.92 V	355	45.0	7.1
6	#6906.00	43.5 AV	54.0	-10.5	1.92 V	355	36.4	7.1
7	#10360.00	63.3 PK	74.0	-10.7	3.24 V	101	49.2	14.1
8	#10360.00	49.5 AV	54.0	-4.5	3.24 V	101	35.4	14.1
9	15540.00	61.5 PK	74.0	-12.5	2.89 V	306	46.7	14.8
10	15540.00	48.5 AV	54.0	-5.5	2.89 V	306	33.7	14.8

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
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5200.00	100.9 PK			2.94 H	75	61.9	39.0
2	*5200.00	90.6 AV			2.94 H	75	51.6	39.0
3	#6933.00	54.0 PK	74.0	-20.0	1.81 H	245	46.8	7.2
4	#6933.00	47.4 AV	54.0	-6.6	1.81 H	245	40.2	7.2
5	#10400.00	60.7 PK	74.0	-13.3	3.22 H	108	46.3	14.4
6	#10400.00	47.5 AV	54.0	-6.5	3.22 H	108	33.1	14.4
7	15600.00	62.4 PK	74.0	-11.6	3.01 H	77	47.9	14.5
8	15600.00	48.7 AV	54.0	-5.3	3.01 H	77	34.2	14.5
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	*5200.00	111.3 PK			2.79 V	26	72.3	39.0
2	*5200.00	101.2 AV			2.79 V	26	62.2	39.0
3	#6933.00	52.8 PK	74.0	-21.2	1.82 V	358	45.6	7.2
4	#6933.00	43.9 AV	54.0	-10.1	1.82 V	358	36.7	7.2
5	#10400.00	64.3 PK	74.0	-9.7	3.26 V	113	49.9	14.4
6	#10400.00	50.1 AV	54.0	-3.9	3.26 V	113	35.7	14.4
7	15600.00	61.3 PK	74.0	-12.7	2.77 V	300	46.8	14.5
8	15600.00	48.2 AV	54.0	-5.8	2.77 V	300	33.7	14.5

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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5240.00	98.1 PK			3.01 H	83	59.1	39.0
2	*5240.00	88.3 AV			3.01 H	83	49.3	39.0
3	5350.00	55.2 PK	74.0	-18.8	3.12 H	101	53.0	2.2
4	5350.00	44.5 AV	54.0	-9.5	3.12 H	101	42.3	2.2
5	#6986.00	55.7 PK	74.0	-18.3	1.79 H	232	48.2	7.5
6	#6986.00	45.4 AV	54.0	-8.6	1.79 H	232	37.9	7.5
7	#10480.00	59.7 PK	74.0	-14.3	3.21 H	140	45.6	14.1
8	#10480.00	47.2 AV	54.0	-6.8	3.21 H	140	33.1	14.1
9	15720.00	62.0 PK	74.0	-12.0	3.20 H	70	47.6	14.4
10	15720.00	48.6 AV	54.0	-5.4	3.20 H	70	34.2	14.4
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	*5240.00	112.4 PK			2.27 V	43	73.4	39.0
2	*5240.00	102.5 AV			2.27 V	43	63.5	39.0
3	5350.00	55.2 PK	74.0	-18.8	3.14 V	13	53.0	2.2
4	5350.00	46.1 AV	54.0	-7.9	3.14 V	13	43.9	2.2
5	#6986.00	53.3 PK	74.0	-20.7	1.79 V	360	45.8	7.5
6	#6986.00	44.5 AV	54.0	-9.5	1.79 V	360	37.0	7.5
7	#10480.00	64.0 PK	74.0	-10.0	3.01 V	121	49.9	14.1
8	#10480.00	49.9 AV	54.0	-4.1	3.01 V	121	35.8	14.1
9	15720.00	61.5 PK	74.0	-12.5	2.69 V	297	47.1	14.4
10	15720.00	48.4 AV	54.0	-5.6	2.69 V	297	34.0	14.4

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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	54.8 PK	74.0	-19.2	2.12 H	233	53.1	1.7
2	5150.00	42.4 AV	54.0	-11.6	2.12 H	233	40.7	1.7
3	*5260.00	103.1 PK			2.01 H	248	64.0	39.1
4	*5260.00	92.7 AV			2.01 H	248	53.6	39.1
5	#7013.00	53.0 PK	74.0	-21.0	1.66 H	210	45.3	7.7
6	#7013.00	40.3 AV	54.0	-13.7	1.66 H	210	32.6	7.7
7	#10520.00	60.7 PK	74.0	-13.3	3.21 H	186	46.6	14.1
8	#10520.00	47.6 AV	54.0	-6.4	3.21 H	186	33.5	14.1
9	15780.00	59.5 PK	74.0	-14.5	3.39 H	50	45.3	14.2
10	15780.00	46.9 AV	54.0	-7.1	3.39 H	50	32.7	14.2
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	5150.00	54.5 PK	74.0	-19.5	3.48 V	3	52.8	1.7
2	5150.00	42.8 AV	54.0	-11.2	3.48 V	3	41.1	1.7
3	*5260.00	110.3 PK			3.90 V	13	71.2	39.1
4	*5260.00	100.3 AV			3.90 V	13	61.2	39.1
5	#7013.00	53.3 PK	74.0	-20.7	1.67 V	312	45.6	7.7
6	#7013.00	38.2 AV	54.0	-15.8	1.67 V	312	30.5	7.7
7	#10520.00	64.2 PK	74.0	-9.8	3.55 V	102	50.1	14.1
8	#10520.00	49.7 AV	54.0	-4.3	3.55 V	102	35.6	14.1
9	15780.00	60.1 PK	74.0	-13.9	2.62 V	42	45.9	14.2
10	15780.00	47.4 AV	54.0	-6.6	2.62 V	42	33.2	14.2

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
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5300.00	102.1 PK			2.14 H	246	62.9	39.2
2	*5300.00	92.6 AV			2.14 H	246	53.4	39.2
3	#7066.00	52.2 PK	74.0	-21.8	1.70 H	215	44.1	8.1
4	#7066.00	40.5 AV	54.0	-13.5	1.70 H	215	32.4	8.1
5	10600.00	59.6 PK	74.0	-14.4	3.44 H	178	45.3	14.3
6	10600.00	46.7 AV	54.0	-7.3	3.44 H	178	32.4	14.3
7	15900.00	62.2 PK	74.0	-11.8	3.77 H	140	47.3	14.9
8	15900.00	49.5 AV	54.0	-4.5	3.77 H	140	34.6	14.9
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	*5300.00	111.4 PK			2.26 V	21	72.2	39.2
2	*5300.00	101.7 AV			2.26 V	21	62.5	39.2
3	#7066.00	53.9 PK	74.0	-20.1	1.76 V	329	45.8	8.1
4	#7066.00	40.6 AV	54.0	-13.4	1.76 V	329	32.5	8.1
5	10600.00	60.9 PK	74.0	-13.1	3.91 V	99	46.6	14.3
6	10600.00	48.3 AV	54.0	-5.7	3.91 V	99	34.0	14.3
7	15900.00	62.6 PK	74.0	-11.4	3.72 V	48	47.7	14.9
8	15900.00	49.7 AV	54.0	-4.3	3.72 V	48	34.8	14.9

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 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5320.00	102.9 PK			2.10 H	248	63.7	39.2
2	*5320.00	93.2 AV			2.10 H	248	54.0	39.2
3	5350.00	56.7 PK	74.0	-17.3	2.16 H	247	54.5	2.2
4	5350.00	43.5 AV	54.0	-10.5	2.16 H	247	41.3	2.2
5	#7093.00	52.9 PK	74.0	-21.1	1.66 H	210	44.7	8.2
6	#7093.00	39.4 AV	54.0	-14.6	1.66 H	210	31.2	8.2
7	10640.00	60.2 PK	74.0	-13.8	3.29 H	178	45.8	14.4
8	10640.00	47.1 AV	54.0	-6.9	3.29 H	178	32.7	14.4
9	15960.00	62.2 PK	74.0	-11.8	3.77 H	138	47.6	14.6
10	15960.00	48.7 AV	54.0	-5.3	3.77 H	138	34.1	14.6
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	*5320.00	111.7 PK			2.36 V	27	72.5	39.2
2	*5320.00	101.8 AV			2.36 V	27	62.6	39.2
3	5350.00	69.0 PK	74.0	-5.0	2.01 V	20	66.8	2.2
4	5350.00	49.6 AV	54.0	-4.4	2.01 V	20	47.4	2.2
5	#7093.00	53.4 PK	74.0	-20.6	1.72 V	349	45.2	8.2
6	#7093.00	40.6 AV	54.0	-13.4	1.72 V	349	32.4	8.2
7	10640.00	63.5 PK	74.0	-10.5	3.64 V	102	49.1	14.4
8	10640.00	50.5 AV	54.0	-3.5	3.64 V	102	36.1	14.4
9	15960.00	63.0 PK	74.0	-11.0	3.48 V	63	48.4	14.6
10	15960.00	49.5 AV	54.0	-4.5	3.48 V	63	34.9	14.6

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 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5460.00	56.4 PK	74.0	-17.6	2.81 H	103	54.0	2.4
2	5460.00	43.4 AV	54.0	-10.6	2.81 H	103	41.0	2.4
3	#5470.00	57.8 PK	74.0	-16.2	2.16 H	81	55.4	2.4
4	#5470.00	44.3 AV	54.0	-9.7	2.16 H	81	41.9	2.4
5	*5500.00	101.0 PK			2.93 H	37	61.5	39.5
6	*5500.00	91.1 AV			2.93 H	37	51.6	39.5
7	7333.00	52.8 PK	74.0	-21.2	1.70 H	219	44.3	8.5
8	7333.00	39.2 AV	54.0	-14.8	1.70 H	219	30.7	8.5
9	11000.00	61.9 PK	74.0	-12.1	3.31 H	201	45.9	16.0
10	11000.00	49.1 AV	54.0	-4.9	3.31 H	201	33.1	16.0
11	#16500.00	60.8 PK	74.0	-13.2	3.87 H	103	45.9	14.9
12	#16500.00	48.1 AV	54.0	-5.9	3.87 H	103	33.2	14.9
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	5460.00	60.1 PK	74.0	-13.9	2.25 V	14	57.7	2.4
2	5460.00	44.2 AV	54.0	-9.8	2.25 V	14	41.8	2.4
3	#5470.00	69.7 PK	74.0	-4.3	1.92 V	3	67.3	2.4
4	#5470.00	49.8 AV	54.0	-4.2	1.92 V	3	47.4	2.4
5	*5500.00	111.7 PK			2.26 V	28	72.2	39.5
6	*5500.00	101.5 AV			2.26 V	28	62.0	39.5
7	7333.00	53.8 PK	74.0	-20.2	1.63 V	349	45.3	8.5
8	7333.00	40.8 AV	54.0	-13.2	1.63 V	349	32.3	8.5
9	11000.00	64.4 PK	74.0	-9.6	3.44 V	93	48.4	16.0
10	11000.00	51.0 AV	54.0	-3.0	3.44 V	93	35.0	16.0
11	#16500.00	62.3 PK	74.0	-11.7	3.68 V	14	47.4	14.9
12	#16500.00	48.9 AV	54.0	-5.1	3.68 V	14	34.0	14.9

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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5580.00	101.0 PK			2.25 H	58	61.3	39.7
2	*5580.00	91.1 AV			2.25 H	58	51.4	39.7
3	7400.00	54.1 PK	74.0	-19.9	1.91 H	198	44.9	9.2
4	7400.00	40.0 AV	54.0	-14.0	1.91 H	198	30.8	9.2
5	11160.00	60.3 PK	74.0	-13.7	3.31 H	189	45.0	15.3
6	11160.00	45.8 AV	54.0	-8.2	3.31 H	189	30.5	15.3
7	#16740.00	66.6 PK	74.0	-7.4	3.91 H	77	47.5	19.1
8	#16740.00	52.6 AV	54.0	-1.4	3.91 H	77	33.5	19.1
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	*5580.00	112.6 PK			2.28 V	26	72.9	39.7
2	*5580.00	102.4 AV			2.28 V	26	62.7	39.7
3	7440.00	55.3 PK	74.0	-18.7	1.79 V	293	46.0	9.3
4	7440.00	42.2 AV	54.0	-11.8	1.79 V	293	32.9	9.3
5	11160.00	60.4 PK	74.0	-13.6	3.35 V	107	45.1	15.3
6	11160.00	46.1 AV	54.0	-7.9	3.35 V	107	30.8	15.3
7	#16740.00	65.8 PK	74.0	-8.2	3.47 V	96	46.7	19.1
8	**#16740.00**	**53.0 AV**	**54.0**	**-1.0**	**3.47 V**	**96**	**33.9**	**19.1**

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 140	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5700.00	97.4 PK			2.13 H	50	57.5	39.9
2	*5700.00	88.6 AV			2.13 H	50	48.7	39.9
3	#5725.00	58.7 PK	74.0	-15.3	2.19 H	89	55.9	2.8
4	#5725.00	43.8 AV	54.0	-10.2	2.19 H	89	41.0	2.8
5	7600.00	54.0 PK	74.0	-20.0	1.91 H	221	45.1	8.9
6	7600.00	40.1 AV	54.0	-13.9	1.91 H	221	31.2	8.9
7	11400.00	62.3 PK	74.0	-11.7	3.10 H	177	47.6	14.7
8	11400.00	50.1 AV	54.0	-3.9	3.10 H	177	35.4	14.7
9	#17100.00	67.1 PK	74.0	-6.9	3.87 H	101	45.9	21.2
10	#17100.00	52.4 AV	54.0	-1.6	3.87 H	101	31.2	21.2
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	*5700.00	106.5 PK			2.15 V	23	66.6	39.9
2	*5700.00	97.3 AV			2.15 V	23	57.4	39.9
3	#5725.00	68.6 PK	74.0	-5.4	3.23 V	14	65.8	2.8
4	#5725.00	50.1 AV	54.0	-3.9	3.23 V	14	47.3	2.8
5	7600.00	55.2 PK	74.0	-18.8	1.71 V	301	46.3	8.9
6	7600.00	42.5 AV	54.0	-11.5	1.71 V	301	33.6	8.9
7	11400.00	63.7 PK	74.0	-10.3	3.14 V	106	49.0	14.7
8	11400.00	52.3 AV	54.0	-1.7	3.14 V	106	37.6	14.7
9	#17100.00	67.4 PK	74.0	-6.6	3.46 V	21	46.2	21.2
10	#17100.00	52.6 AV	54.0	-1.4	3.46 V	21	31.4	21.2

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
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5745.00	95.5 PK			2.00 H	46	55.6	39.9
2	*5745.00	85.7 AV			2.00 H	46	45.8	39.9
3	7660.00	53.9 PK	74.0	-20.1	1.98 H	241	44.9	9.0
4	7660.00	42.4 AV	54.0	-11.6	1.98 H	241	33.4	9.0
5	11490.00	62.3 PK	74.0	-11.7	3.44 H	100	47.6	14.7
6	11490.00	48.9 AV	54.0	-5.1	3.44 H	100	34.2	14.7
7	#17235.00	68.9 PK	74.0	-5.1	3.99 H	126	47.3	21.6
8	**#17235.00**	**53.0 AV**	**54.0**	**-1.0**	**3.99 H**	**126**	**31.4**	**21.6**
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	*5745.00	103.8 PK			2.56 V	2	63.9	39.9
2	*5745.00	94.2 AV			2.56 V	2	54.3	39.9
3	7660.00	55.2 PK	74.0	-18.8	1.77 V	321	46.2	9.0
4	7660.00	43.7 AV	54.0	-10.3	1.77 V	321	34.7	9.0
5	11650.00	63.5 PK	74.0	-10.5	3.63 V	104	48.9	14.6
6	11650.00	50.5 AV	54.0	-3.5	3.63 V	104	35.9	14.6
7	#17235.00	68.3 PK	74.0	-5.7	3.81 V	19	46.7	21.6
8	#17235.00	52.6 AV	54.0	-1.4	3.81 V	19	31.0	21.6

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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5785.00	97.6 PK			2.30 H	71	57.7	39.9
2	*5785.00	87.5 AV			2.30 H	71	47.6	39.9
3	7713.00	54.2 PK	74.0	-19.8	1.89 H	238	45.2	9.0
4	7713.00	42.2 AV	54.0	-11.8	1.89 H	238	33.2	9.0
5	11570.00	62.1 PK	74.0	-11.9	3.87 H	256	47.5	14.6
6	11570.00	49.8 AV	54.0	-4.2	3.87 H	256	35.2	14.6
7	#17355.00	68.0 PK	74.0	-6.0	3.87 H	64	47.2	20.8
8	**#17355.00**	**53.0 AV**	**54.0**	**-1.0**	**3.87 H**	**64**	**32.2**	**20.8**
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	*5785.00	105.4 PK			2.10 V	2	65.5	39.9
2	*5785.00	95.0 AV			2.10 V	2	55.1	39.9
3	7731.00	56.3 PK	74.0	-17.7	1.77 V	330	47.3	9.0
4	7731.00	43.5 AV	54.0	-10.5	1.77 V	330	34.5	9.0
5	11570.00	66.5 PK	74.0	-7.5	3.29 V	121	51.9	14.6
6	11570.00	51.6 AV	54.0	-2.4	3.29 V	121	37.0	14.6
7	#17355.00	67.7 PK	74.0	-6.3	3.71 V	44	46.9	20.8
8	#17355.00	52.8 AV	54.0	-1.2	3.71 V	44	32.0	20.8

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
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5825.00	101.0 PK			2.81 H	77	61.0	40.0
2	*5825.00	90.5 AV			2.81 H	77	50.5	40.0
3	#7766.00	55.2 PK	74.0	-18.8	1.80 H	240	46.1	9.1
4	#7766.00	42.5 AV	54.0	-11.5	1.80 H	240	33.4	9.1
5	11650.00	65.4 PK	74.0	-8.6	3.66 H	22	50.8	14.6
6	11650.00	50.6 AV	54.0	-3.4	3.66 H	22	36.0	14.6
7	#17475.00	67.2 PK	74.0	-6.8	3.01 H	245	46.6	20.6
8	#17475.00	52.8 AV	54.0	-1.2	3.01 H	245	32.2	20.6
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	*5825.00	107.9 PK			2.22 V	1	67.9	40.0
2	*5825.00	97.2 AV			2.22 V	1	57.2	40.0
3	#7766.00	57.0 PK	74.0	-17.0	1.66 V	329	47.9	9.1
4	#7766.00	44.5 AV	54.0	-9.5	1.66 V	329	35.4	9.1
5	11650.00	64.4 PK	74.0	-9.6	3.77 V	120	49.8	14.6
6	11650.00	51.3 AV	54.0	-2.7	3.77 V	120	36.7	14.6
7	#17475.00	66.8 PK	74.0	-7.2	3.59 V	27	46.2	20.6
8	#17475.00	52.6 AV	54.0	-1.4	3.59 V	27	32.0	20.6

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.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT40)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	55.8 PK	74.0	-18.2	3.44 H	86	54.1	1.7
2	5150.00	43.6 AV	54.0	-10.4	3.44 H	86	41.9	1.7
3	*5190.00	91.9 PK			2.54 H	37	52.9	39.0
4	*5190.00	82.0 AV			2.54 H	37	43.0	39.0
5	#6920.00	53.4 PK	74.0	-20.6	1.94 H	234	46.2	7.2
6	#6920.00	46.1 AV	54.0	-7.9	1.94 H	234	38.9	7.2
7	#10380.00	58.5 PK	74.0	-15.5	2.92 H	82	44.1	14.4
8	#10380.00	44.9 AV	54.0	-9.1	2.92 H	82	30.5	14.4
9	15570.00	62.4 PK	74.0	-11.6	3.29 H	80	47.8	14.6
10	15570.00	48.9 AV	54.0	-5.1	3.29 H	80	34.3	14.6
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	5150.00	69.1 PK	74.0	-4.9	3.01 V	2	67.4	1.7
2	5150.00	52.8 AV	54.0	-1.2	3.01 V	2	51.1	1.7
3	*5190.00	105.5 PK			2.92 V	12	66.5	39.0
4	*5190.00	95.7 AV			2.92 V	12	56.7	39.0
5	#6920.00	53.0 PK	74.0	-21.0	1.91 V	356	45.8	7.2
6	#6920.00	42.5 AV	54.0	-11.5	1.91 V	356	35.3	7.2
7	#10380.00	58.7 PK	74.0	-15.3	3.85 V	99	44.3	14.4
8	#10380.00	46.3 AV	54.0	-7.7	3.85 V	99	31.9	14.4
9	15570.00	62.0 PK	74.0	-12.0	3.68 V	119	47.4	14.6
10	15570.00	48.6 AV	54.0	-5.4	3.68 V	119	34.0	14.6

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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5230.00	98.1 PK			3.35 H	73	59.1	39.0
2	*5230.00	87.7 AV			3.35 H	73	48.7	39.0
3	5350.00	56.0 PK	74.0	-18.0	3.11 H	100	53.8	2.2
4	5350.00	43.2 AV	54.0	-10.8	3.11 H	100	41.0	2.2
5	#6973.00	56.4 PK	74.0	-17.6	1.89 H	227	48.9	7.5
6	#6973.00	46.5 AV	54.0	-7.5	1.89 H	227	39.0	7.5
7	#10460.00	59.1 PK	74.0	-14.9	2.33 H	93	45.0	14.1
8	#10460.00	46.2 AV	54.0	-7.8	2.33 H	93	32.1	14.1
9	15690.00	62.6 PK	74.0	-11.4	3.35 H	77	48.1	14.5
10	15690.00	49.5 AV	54.0	-4.5	3.35 H	77	35.0	14.5
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	*5230.00	109.9 PK			2.53 V	24	70.9	39.0
2	*5230.00	100.1 AV			2.53 V	24	61.1	39.0
3	5350.00	56.3 PK	74.0	-17.7	2.85 V	8	54.1	2.2
4	5350.00	43.7 AV	54.0	-10.3	2.85 V	8	41.5	2.2
5	#6973.00	55.5 PK	74.0	-18.5	1.86 V	355	48.0	7.5
6	#6973.00	42.1 AV	54.0	-11.9	1.86 V	355	34.6	7.5
7	#10460.00	60.0 PK	74.0	-14.0	3.77 V	103	45.9	14.1
8	#10460.00	47.2 AV	54.0	-6.8	3.77 V	103	33.1	14.1
9	15690.00	62.4 PK	74.0	-11.6	3.21 V	129	47.9	14.5
10	15690.00	49.3 AV	54.0	-4.7	3.21 V	129	34.8	14.5

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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 54	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	55.0 PK	74.0	-19.0	2.12 H	244	53.3	1.7
2	5150.00	42.0 AV	54.0	-12.0	2.12 H	244	40.3	1.7
3	*5270.00	100.6 PK			1.92 H	246	61.4	39.2
4	*5270.00	90.5 AV			1.92 H	246	51.3	39.2
5	#7026.00	52.8 PK	74.0	-21.2	1.71 H	221	45.0	7.8
6	#7026.00	39.5 AV	54.0	-14.5	1.71 H	221	31.7	7.8
7	#10540.00	60.4 PK	74.0	-13.6	3.21 H	178	46.2	14.2
8	#10540.00	47.3 AV	54.0	-6.7	3.21 H	178	33.1	14.2
9	15810.00	59.0 PK	74.0	-15.0	3.20 H	51	45.0	14.0
10	15810.00	45.8 AV	54.0	-8.2	3.20 H	51	31.8	14.0
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	5150.00	54.6 PK	74.0	-19.4	2.26 V	21	52.9	1.7
2	5150.00	43.2 AV	54.0	-10.8	2.26 V	21	41.5	1.7
3	*5270.00	109.2 PK			2.12 V	2	70.0	39.2
4	*5270.00	99.1 AV			2.12 V	2	59.9	39.2
5	#7026.00	53.3 PK	74.0	-20.7	1.51 V	334	45.5	7.8
6	#7026.00	40.2 AV	54.0	-13.8	1.51 V	334	32.4	7.8
7	#10540.00	62.0 PK	74.0	-12.0	3.46 V	101	47.8	14.2
8	#10540.00	48.9 AV	54.0	-5.1	3.46 V	101	34.7	14.2
9	15810.00	59.2 PK	74.0	-14.8	2.73 V	56	45.2	14.0
10	15810.00	46.3 AV	54.0	-7.7	2.73 V	56	32.3	14.0

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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5310.00	96.7 PK			2.04 H	249	57.5	39.2
2	*5310.00	86.9 AV			2.04 H	249	47.7	39.2
3	5350.00	59.2 PK	74.0	-14.8	2.09 H	249	57.0	2.2
4	5350.00	45.4 AV	54.0	-8.6	2.09 H	249	43.2	2.2
5	#7080.00	53.3 PK	74.0	-20.7	1.79 H	233	45.3	8.0
6	#7080.00	39.8 AV	54.0	-14.2	1.79 H	233	31.8	8.0
7	#10520.00	59.3 PK	74.0	-14.7	3.31 H	179	45.2	14.1
8	#10520.00	45.9 AV	54.0	-8.1	3.31 H	179	31.8	14.1
9	15780.00	59.5 PK	74.0	-14.5	3.40 H	49	45.3	14.2
10	15780.00	46.6 AV	54.0	-7.4	3.40 H	49	32.4	14.2
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	*5310.00	105.5 PK			2.14 V	32	66.3	39.2
2	*5310.00	96.1 AV			2.14 V	32	56.9	39.2
3	5350.00	70.2 PK	74.0	-3.8	1.73 V	21	68.0	2.2
4	5350.00	52.7 AV	54.0	-1.3	1.73 V	21	50.5	2.2
5	#7080.00	53.4 PK	74.0	-20.6	1.76 V	312	45.4	8.0
6	#7080.00	39.5 AV	54.0	-14.5	1.76 V	312	31.5	8.0
7	10620.00	60.0 PK	74.0	-14.0	3.43 V	101	45.6	14.4
8	10620.00	46.5 AV	54.0	-7.5	3.43 V	101	32.1	14.4
9	15930.00	61.1 PK	74.0	-12.9	2.94 V	32	46.4	14.7
10	15930.00	48.6 AV	54.0	-5.4	2.94 V	32	33.9	14.7

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 102	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5460.00	56.5 PK	74.0	-17.5	2.67 H	60	54.1	2.4
2	5460.00	43.5 AV	54.0	-10.5	2.67 H	60	41.1	2.4
3	#5470.00	60.7 PK	74.0	-13.3	2.49 H	31	58.3	2.4
4	#5470.00	45.9 AV	54.0	-8.1	2.49 H	31	43.5	2.4
5	*5510.00	95.0 PK			2.51 H	38	55.5	39.5
6	*5510.00	85.1 AV			2.51 H	38	45.6	39.5
7	7346.00	53.6 PK	74.0	-20.4	1.70 H	213	45.0	8.6
8	7346.00	40.7 AV	54.0	-13.3	1.70 H	213	32.1	8.6
9	11020.00	60.8 PK	74.0	-13.2	3.29 H	235	44.9	15.9
10	11020.00	46.9 AV	54.0	-7.1	3.29 H	235	31.0	15.9
11	#16530.00	61.4 PK	74.0	-12.6	3.92 H	139	45.8	15.6
12	#16530.00	48.3 AV	54.0	-5.7	3.92 H	139	32.7	15.6
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	5460.00	58.1 PK	74.0	-15.9	3.07 V	35	55.7	2.4
2	5460.00	45.1 AV	54.0	-8.9	3.07 V	35	42.7	2.4
3	#5470.00	68.8 PK	74.0	-5.2	3.22 V	16	66.4	2.4
4	#5470.00	52.8 AV	54.0	-1.2	3.22 V	16	50.4	2.4
5	*5510.00	104.9 PK			2.14 V	26	65.4	39.5
6	*5510.00	94.8 AV			2.14 V	26	55.3	39.5
7	7346.00	54.2 PK	74.0	-19.8	1.80 V	340	45.6	8.6
8	7346.00	41.1 AV	54.0	-12.9	1.80 V	340	32.5	8.6
9	11020.00	61.1 PK	74.0	-12.9	3.43 V	96	45.2	15.9
10	11020.00	47.4 AV	54.0	-6.6	3.43 V	96	31.5	15.9
11	#16530.00	61.9 PK	74.0	-12.1	3.48 V	9	46.3	15.6
12	#16530.00	49.2 AV	54.0	-4.8	3.48 V	9	33.6	15.6

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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5550.00	99.8 PK			2.25 H	39	60.2	39.6
2	*5550.00	89.7 AV			2.25 H	39	50.1	39.6
3	7400.00	54.8 PK	74.0	-19.2	1.89 H	200	45.6	9.2
4	7400.00	42.0 AV	54.0	-12.0	1.89 H	200	32.8	9.2
5	11100.00	61.0 PK	74.0	-13.0	3.29 H	210	45.6	15.4
6	11100.00	48.1 AV	54.0	-5.9	3.29 H	210	32.7	15.4
7	#16650.00	64.6 PK	74.0	-9.4	3.99 H	124	46.5	18.1
8	#16650.00	50.8 AV	54.0	-3.2	3.99 H	124	32.7	18.1
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	*5550.00	109.1 PK			2.05 V	7	69.5	39.6
2	*5550.00	99.7 AV			2.05 V	7	60.1	39.6
3	7400.00	56.0 PK	74.0	-18.0	1.88 V	349	46.8	9.2
4	7400.00	43.1 AV	54.0	-10.9	1.88 V	349	33.9	9.2
5	11100.00	61.7 PK	74.0	-12.3	3.76 V	99	46.3	15.4
6	11100.00	49.6 AV	54.0	-4.4	3.76 V	99	34.2	15.4
7	#16650.00	65.5 PK	74.0	-8.5	3.36 V	30	47.4	18.1
8	#16650.00	51.7 AV	54.0	-2.3	3.36 V	30	33.6	18.1

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 134	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5670.00	97.7 PK			2.48 H	37	57.9	39.8
2	*5670.00	87.4 AV			2.48 H	37	47.6	39.8
3	#5725.00	59.0 PK	74.0	-15.0	2.56 H	49	56.2	2.8
4	#5725.00	44.1 AV	54.0	-9.9	2.56 H	49	41.3	2.8
5	7560.00	55.0 PK	74.0	-19.0	1.82 H	243	45.9	9.1
6	7560.00	41.9 AV	54.0	-12.1	1.82 H	243	32.8	9.1
7	11340.00	61.6 PK	74.0	-12.4	3.29 H	189	46.2	15.4
8	11340.00	48.8 AV	54.0	-5.2	3.29 H	189	33.4	15.4
9	#17010.00	66.4 PK	74.0	-7.6	3.80 H	103	45.2	21.2
10	#17010.00	52.2 AV	54.0	-1.8	3.80 H	103	31.0	21.2
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	*5670.00	106.8 PK			2.53 V	25	67.0	39.8
2	*5670.00	96.8 AV			2.53 V	25	57.0	39.8
3	#5725.00	60.4 PK	74.0	-13.6	2.08 V	2	57.6	2.8
4	#5725.00	45.4 AV	54.0	-8.6	2.08 V	2	42.6	2.8
5	7560.00	55.9 PK	74.0	-18.1	1.79 V	348	46.8	9.1
6	7560.00	43.0 AV	54.0	-11.0	1.79 V	348	33.9	9.1
7	11340.00	64.7 PK	74.0	-9.3	3.32 V	105	49.3	15.4
8	11340.00	52.0 AV	54.0	-2.0	3.32 V	105	36.6	15.4
9	#17010.00	67.9 PK	74.0	-6.1	3.43 V	48	46.7	21.2
10	#17010.00	52.8 AV	54.0	-1.2	3.43 V	48	31.6	21.2

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
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5755.00	95.8 PK			2.23 H	75	55.9	39.9
2	*5755.00	85.8 AV			2.23 H	75	45.9	39.9
3	7673.00	54.2 PK	74.0	-19.8	1.77 H	196	45.2	9.0
4	7673.00	41.5 AV	54.0	-12.5	1.77 H	196	32.5	9.0
5	11510.00	62.7 PK	74.0	-11.3	3.62 H	248	48.0	14.7
6	11510.00	49.7 AV	54.0	-4.3	3.62 H	248	35.0	14.7
7	#17265.00	68.4 PK	74.0	-5.6	3.71 H	102	46.9	21.5
8	#17265.00	52.2 AV	54.0	-1.8	3.71 H	102	30.7	21.5
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	*5755.00	104.2 PK			2.29 V	7	64.3	39.9
2	*5755.00	94.2 AV			2.29 V	7	54.3	39.9
3	7673.00	55.9 PK	74.0	-18.1	1.69 V	321	46.9	9.0
4	7673.00	42.8 AV	54.0	-11.2	1.69 V	321	33.8	9.0
5	11510.00	66.8 PK	74.0	-7.2	3.46 V	105	52.1	14.7
6	11510.00	52.4 AV	54.0	-1.6	3.46 V	105	37.7	14.7
7	#17265.00	68.8 PK	74.0	-5.2	2.98 V	81	47.3	21.5
8	#17265.00	52.1 AV	54.0	-1.9	2.98 V	81	30.6	21.5

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.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5795.00	97.5 PK			2.85 H	77	57.6	39.9
2	*5795.00	87.2 AV			2.85 H	77	47.3	39.9
3	7726.00	54.9 PK	74.0	-19.1	1.79 H	203	45.9	9.0
4	7726.00	41.8 AV	54.0	-12.2	1.79 H	203	32.8	9.0
5	11590.00	62.8 PK	74.0	-11.2	3.66 H	247	48.3	14.5
6	11590.00	49.7 AV	54.0	-4.3	3.66 H	247	35.2	14.5
7	#17385.00	67.6 PK	74.0	-6.4	3.69 H	122	47.2	20.4
8	#17385.00	52.4 AV	54.0	-1.6	3.69 H	122	32.0	20.4
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	*5795.00	104.8 PK			2.13 V	23	64.9	39.9
2	*5795.00	94.9 AV			2.13 V	23	55.0	39.9
3	7726.00	56.0 PK	74.0	-18.0	1.70 V	330	47.0	9.0
4	7726.00	43.2 AV	54.0	-10.8	1.70 V	330	34.2	9.0
5	11590.00	66.9 PK	74.0	-7.1	3.78 V	104	52.4	14.5
6	11590.00	51.7 AV	54.0	-2.3	3.78 V	104	37.2	14.5
7	#17385.00	67.4 PK	74.0	-6.6	2.79 V	88	47.0	20.4
8	#17385.00	52.2 AV	54.0	-1.8	2.79 V	88	31.8	20.4

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.
6. " # ": The radiated frequency is out of the restricted band.

Below 1GHz worst-case data: 802.11a

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	21.5 QP	40.0	-18.5	1.00 H	217	37.5	-16.0
2	198.78	41.8 QP	43.5	-1.7	1.24 H	199	57.5	-15.7
3	239.52	42.5 QP	46.0	-3.5	1.24 H	353	56.3	-13.8
4	299.03	44.9 QP	46.0	-1.1	1.00 H	328	56.1	-11.2
5	637.22	38.0 QP	46.0	-8.0	1.24 H	170	40.9	-2.9
6	864.20	41.5 QP	46.0	-4.5	1.49 H	251	39.5	2.0
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	33.8 QP	40.0	-6.2	1.01 V	221	49.8	-16.0
2	165.80	31.9 QP	43.5	-11.6	1.01 V	8	45.3	-13.4
3	198.78	31.0 QP	43.5	-12.5	2.00 V	294	46.7	-15.7
4	299.66	39.2 QP	46.0	-6.8	1.26 V	273	50.4	-11.2
5	433.52	31.5 QP	46.0	-14.5	1.26 V	254	39.5	-8.0
6	901.06	41.6 QP	46.0	-4.4	1.01 V	266	38.8	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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

Frequency (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	ESCS 30	100288	Aug. 18, 2016	Aug. 17, 2017
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond2-01	Dec. 22, 2016	Dec. 21, 2017
LISN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Jan. 17, 2017	Jan. 16, 2018
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100312	Jul. 26, 2016	Jul. 25, 2017
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.

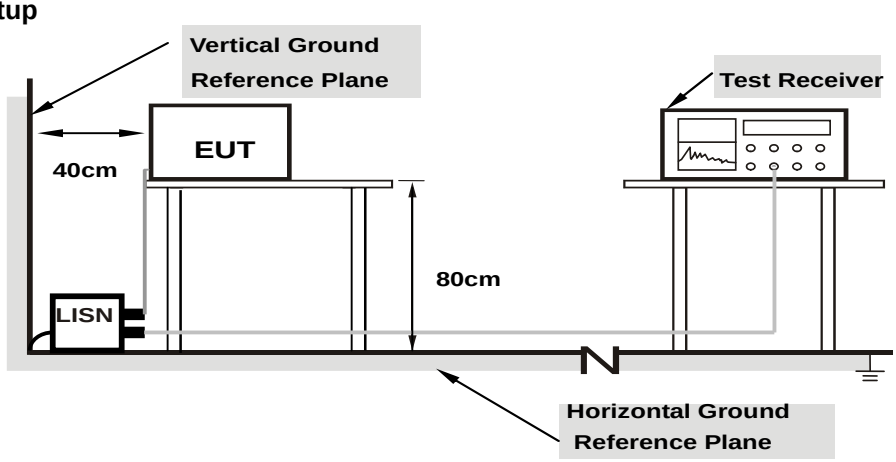
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: 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

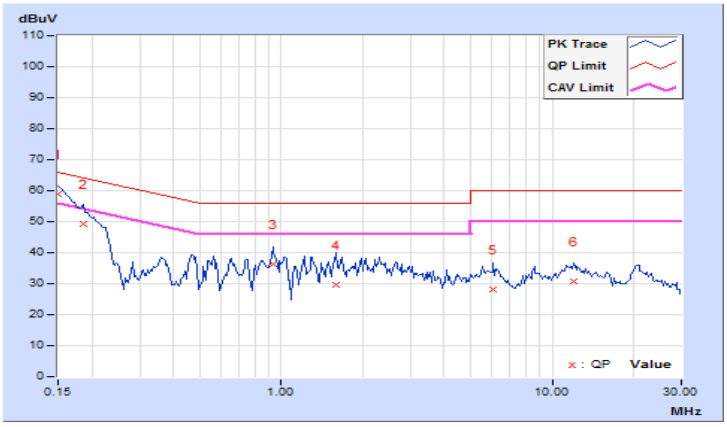
Worst-case data: 802.11a

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

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	0.15000	10.06	48.75	34.42	58.81	44.48	66.00	56.00	-7.19	-11.52
2	0.18516	9.96	39.36	28.73	49.32	38.69	64.25	54.25	-14.93	-15.56
3	0.93125	10.00	26.30	14.67	36.30	24.67	56.00	46.00	-19.70	-21.33
4	1.58594	9.97	19.81	11.19	29.78	21.16	56.00	46.00	-26.22	-24.84
5	6.04297	10.07	18.14	12.68	28.21	22.75	60.00	50.00	-31.79	-27.25
6	11.94531	10.14	20.70	15.48	30.84	25.62	60.00	50.00	-29.16	-24.38

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.

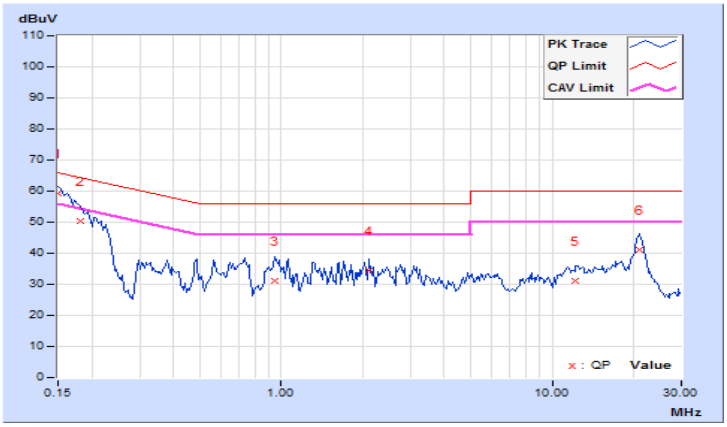


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)

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	**0.15000**	**9.89**	**49.20**	**35.12**	**59.09**	**45.01**	**66.00**	**56.00**	**-6.91**	**-10.99**
2	0.18125	9.83	40.60	26.08	50.43	35.91	64.43	54.43	-14.00	-18.52
3	0.95078	9.92	21.24	14.36	31.16	24.28	56.00	46.00	-24.84	-21.72
4	2.10547	9.99	24.39	19.58	34.38	29.57	56.00	46.00	-21.62	-16.43
5	12.19922	10.16	20.92	15.64	31.08	25.80	60.00	50.00	-28.92	-24.20
6	20.97266	10.50	30.49	24.84	40.99	35.34	60.00	50.00	-19.01	-14.66

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.



4.3 Transmit Power Measurement

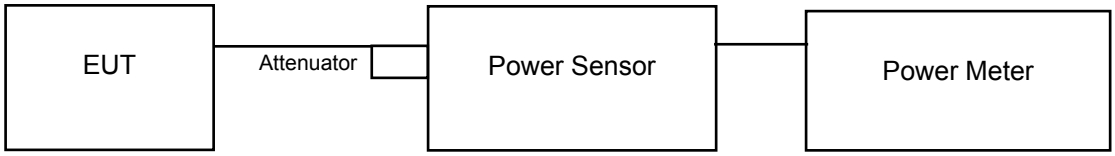
4.3.1 Limits of Transmit Power Measurement

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≦ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
	√	Indoor Access Point	1 Watt (30 dBm)
		Mobile and Portable client device	250mW (24 dBm)
U-NII-2A	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	√		1 Watt (30 dBm)

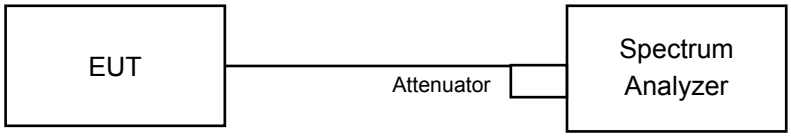
*B is the 26 dB emission bandwidth in megahertz

4.3.2 Test Setup

For Power Output Measurement



For 26dB Bandwidth



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

For Average Power Measurement
Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

For 26dB Bandwidth
1) Set RBW = approximately 1% of the emission bandwidth.
2) Set the VBW > RBW.
3) Detector = Peak.
4) Trace mode = max hold.
5) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

4.3.5 Deviation fromTest Standard

No deviation.

4.3.6 EUT Operating Conditions

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

4.3.7 Test Result

Power Output:

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	14.62	14.92	**60.019**	17.78	30	Pass
40	5200	14.59	14.83	59.183	17.72	30	Pass
48	5240	14.32	13.79	50.973	17.07	30	Pass
52	5260	15.28	15.02	65.498	18.16	24	Pass
60	5300	15.39	15.01	**66.290**	18.21	24	Pass
64	5320	15.37	14.96	65.768	18.18	24	Pass
100	5500	15.32	15.18	**67.002**	18.26	24	Pass
116	5580	15.01	15.00	63.319	18.02	24	Pass
140	5700	14.25	14.05	52.017	17.16	24	Pass
149	5745	11.29	10.72	25.262	14.02	30	Pass
157	5785	13.35	12.56	39.657	15.98	30	Pass
165	5825	14.45	13.84	52.071	17.17	30	Pass

Note:
For U-NII-2A, U-NII-2C Band:
Chain 0
1. 11dBm + 10log (32.17) = 26.07 > 24dBm
2. 11dBm + 10log (32.09) = 26.06 > 24dBm
3. 11dBm + 10log (32.02) = 26.05 > 24dBm
4. 11dBm + 10log (32.90) = 26.17 > 24dBm
5. 11dBm + 10log (30.04) = 25.78 > 24dBm
6. 11dBm + 10log (26.73) = 25.27 > 24dBm

Chain 1
1. 11dBm + 10log (27.58) = 25.41 > 24dBm
2. 11dBm + 10log (27.08) = 25.33 > 24dBm
3. 11dBm + 10log (28.66) = 25.57 > 24dBm
4. 11dBm + 10log (27.45) = 25.39 > 24dBm
5. 11dBm + 10log (26.79) = 25.28 > 24dBm
6. 11dBm + 10log (27.37) = 25.37 > 24dBm

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	14.15	14.30	52.917	17.24	30	Pass
40	5200	14.06	14.22	51.892	17.15	30	Pass
48	5240	14.25	14.10	52.311	17.19	30	Pass
52	5260	14.57	14.24	55.188	17.42	24	Pass
60	5300	14.54	14.07	53.972	17.32	24	Pass
64	5320	14.45	14.08	53.447	17.28	24	Pass
100	5500	14.45	14.31	54.838	17.39	24	Pass
116	5580	14.42	14.45	55.530	17.45	24	Pass
140	5700	13.26	12.48	38.885	15.90	24	Pass
149	5745	12.00	11.84	31.125	14.93	30	Pass
157	5785	13.51	12.55	40.428	16.07	30	Pass
165	5825	14.51	14.04	53.600	17.29	30	Pass

Note:
For U-NII-2A, U-NII-2C Band:
Chain 0
1. 11dBm + 10log (28.76) = 25.59 > 24dBm
2. 11dBm + 10log (31.25) = 25.95 > 24dBm
3. 11dBm + 10log (30.36) = 25.82 > 24dBm
4. 11dBm + 10log (27.89) = 25.45 > 24dBm
5. 11dBm + 10log (29.25) = 25.66 > 24dBm
6. 11dBm + 10log (26.49) = 25.23 > 24dBm

Chain 1
1. 11dBm + 10log (29.27) = 25.66 > 24dBm
2. 11dBm + 10log (30.02) = 25.77 > 24dBm
3. 11dBm + 10log (28.23) = 25.51 > 24dBm
4. 11dBm + 10log (28.84) = 25.60 > 24dBm
5. 11dBm + 10log (27.12) = 25.33 > 24dBm
6. 11dBm + 10log (25.88) = 25.13 > 24dBm

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	10.12	10.47	21.423	13.31	30	Pass
46	5230	14.60	14.10	54.544	17.37	30	Pass
54	5270	14.59	14.37	56.127	17.49	24	Pass
62	5310	10.21	9.18	18.774	12.74	24	Pass
102	5510	11.93	11.61	30.084	14.78	24	Pass
110	5550	14.14	14.23	52.427	17.20	24	Pass
134	5670	14.22	14.01	51.601	17.13	24	Pass
151	5755	11.78	11.09	27.919	14.46	30	Pass
159	5795	14.62	14.18	**55.155**	17.42	30	Pass

Note:
For U-NII-2A, U-NII-2C Band:
Chain 0
1. 11dBm + 10log (52.35) = 28.19 > 24dBm
2. 11dBm + 10log (44.06) = 27.44 > 24dBm
3. 11dBm + 10log (44.91) = 27.52 > 24dBm
4. 11dBm + 10log (60.91) = 28.85 > 24dBm
5. 11dBm + 10log (51.84) = 28.15 > 24dBm

Chain 1
1. 11dBm + 10log (54.52) = 28.37 > 24dBm
2. 11dBm + 10log (45.28) = 27.56 > 24dBm
3. 11dBm + 10log (45.20) = 27.55 > 24dBm
4. 11dBm + 10log (46.67) = 27.69 > 24dBm
5. 11dBm + 10log (49.86) = 27.98 > 24dBm

26dB Bandwidth:

802.11a

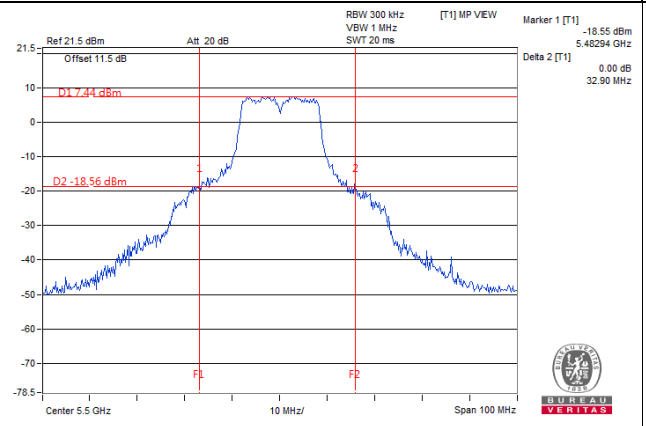
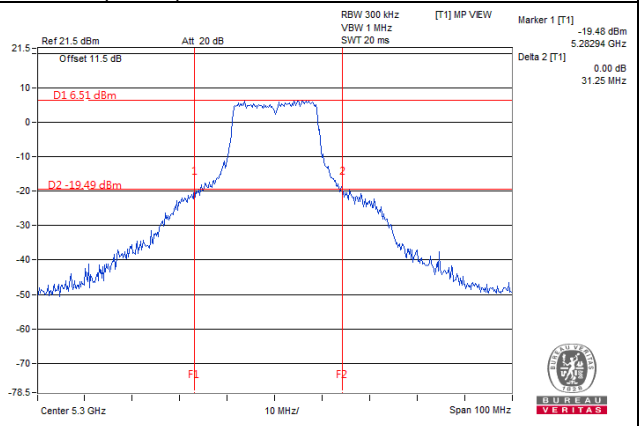
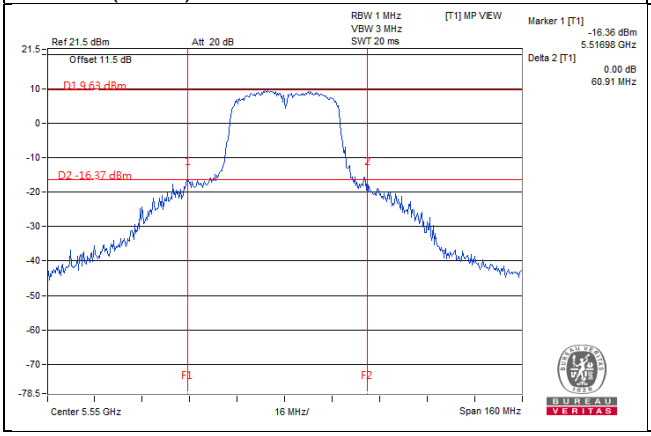
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	31.71	29.12
40	5200	31.31	29.24
48	5240	29.94	25.71
52	5260	32.17	27.58
60	5300	32.09	27.08
64	5320	32.02	28.66
100	5500	32.90	27.45
116	5580	30.04	26.79
140	5700	26.73	27.37

802.11n (HT20)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	26.77	29.23
40	5200	30.67	27.39
48	5240	30.73	27.64
52	5260	28.76	29.27
60	5300	31.25	30.02
64	5320	30.36	28.23
100	5500	27.89	28.84
116	5580	29.25	27.12
140	5700	26.49	25.88

802.11n (HT40)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	44.76	45.41
46	5230	56.28	52.72
54	5270	52.35	54.52
62	5310	44.06	45.28
102	5510	44.91	45.20
110	5550	60.91	46.67
134	5670	51.84	49.86

Spectrum Plot of Worst Value	
802.11a	802.11n (HT20)
	
802.11n (HT40)	
	

EUT Maximum Conducted Power

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	66.290	18.21
5470~5725	67.002	18.26

Note: Manufacturer provides Transmit Power Control description to meet this requirement.

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	55.188	17.42
5470~5725	55.530	17.45

Note: Manufacturer provides Transmit Power Control description to meet this requirement.

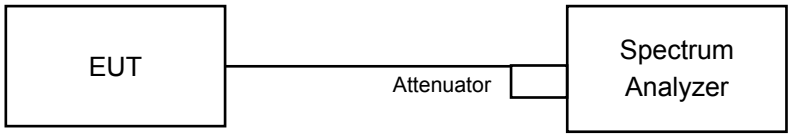
802.11n (HT40)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	56.127	17.49
5470~5725	52.427	17.20

Note: Manufacturer provides Transmit Power Control description to meet this requirement.

4.4 Occupied Bandwidth Measurement

4.4.1 Test Setup



4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

4.4.4 Test Result

802.11a

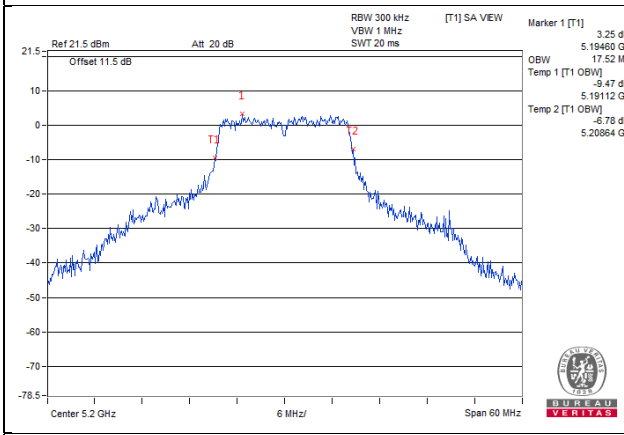
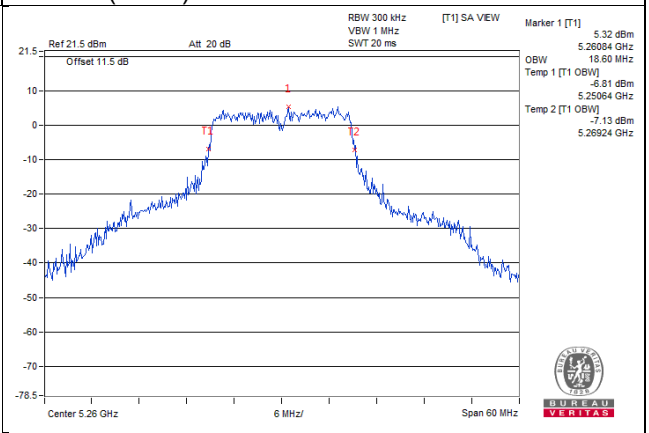
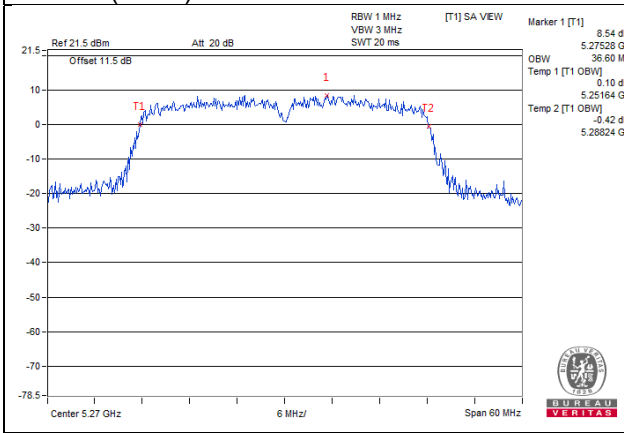
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.40	17.16
40	5200	17.52	17.40
48	5240	17.40	17.16
52	5260	17.28	17.16
60	5300	17.52	17.16
64	5320	17.40	17.16
100	5500	17.52	17.16
116	5580	17.40	17.16
140	5700	17.28	17.04
149	5745	17.04	16.92
157	5785	17.04	16.92
165	5825	17.04	17.04

802.11n (HT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	18.36	18.36
40	5200	18.36	18.36
48	5240	18.36	18.36
52	5260	18.60	18.12
60	5300	18.36	18.24
64	5320	18.60	18.24
100	5500	18.24	18.12
116	5580	18.24	18.24
140	5700	18.12	18.12
149	5745	18.12	18.12
157	5785	18.24	18.12
165	5825	18.12	18.12

802.11n (HT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.36	36.48
46	5230	36.48	36.48
54	5270	36.60	36.48
62	5310	36.36	36.48
102	5510	36.48	36.36
110	5550	36.36	36.48
134	5670	36.48	36.60
151	5755	36.36	36.48
159	5795	36.60	36.36

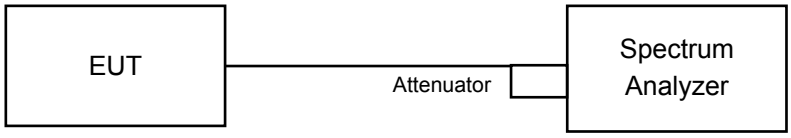
Spectrum Plot of Worst Value	
802.11a	802.11n (HT20)
	
802.11n (HT40)	
	

4.5 Peak Power Spectral Density Measurement

4.5.1 Limits of Peak Power Spectral Density Measurement

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	17dBm/ MHz
		Fixed point-to-point Access Point	
	√	Indoor Access Point	
		Mobile and Portable client device	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedures

For U-NII-1, U-NII-2A, U-NII-2C band
Duty cycle of test signal is < 98 %
Using method SA-2
1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS.
3. Set Channel power measure = 1MHz.
4. Sweep time = auto, trigger set to “free run”.
5. Trace average at least 100 traces in power averaging mode.
6. Record the max value and add 10 log (1/duty cycle).

For U-NII-3 band
Duty cycle of test signal is < 98 %
1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS.
3. Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
4. Scale the observed power level to an equivalent value in 500 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where BWCF = 10log(500kHz/300kHz).
5. Sweep time = auto, trigger set to “free run”.
6. Trace average at least 100 traces in power averaging mode.
7. Record the max value and add 10 log (1/duty cycle).

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Conditions

Same as Item 4.3.6.

4.5.7 Test Results

For U-NII-1, U-NII-2A, U-NII-2C band

802.11a

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	1.98	1.50	0.11	4.86	17	Pass
40	5200	1.58	1.80	0.11	4.81	17	Pass
48	5240	2.00	1.78	0.11	5.01	17	Pass
52	5260	4.13	2.96	0.11	6.70	11	Pass
60	5300	4.48	3.88	0.11	7.31	11	Pass
64	5320	5.20	3.75	0.11	7.65	11	Pass
100	5500	4.54	4.33	0.11	7.55	11	Pass
116	5580	4.21	3.87	0.11	7.16	11	Pass
140	5700	4.22	3.62	0.11	7.05	11	Pass

Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 1.83dBi + 10log(2) = 4.84dBi < 6dBi, so the limit no need to be reduced.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

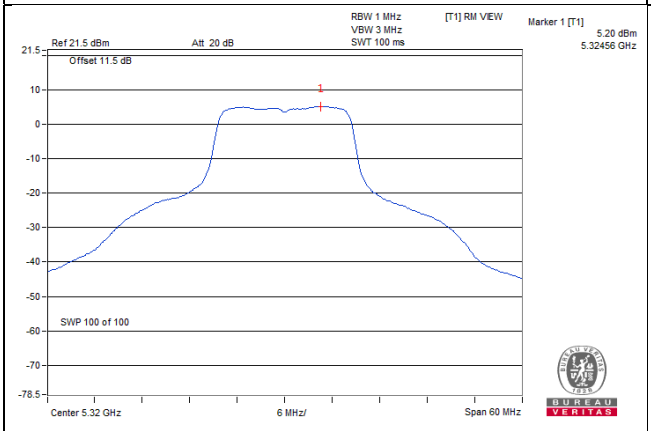
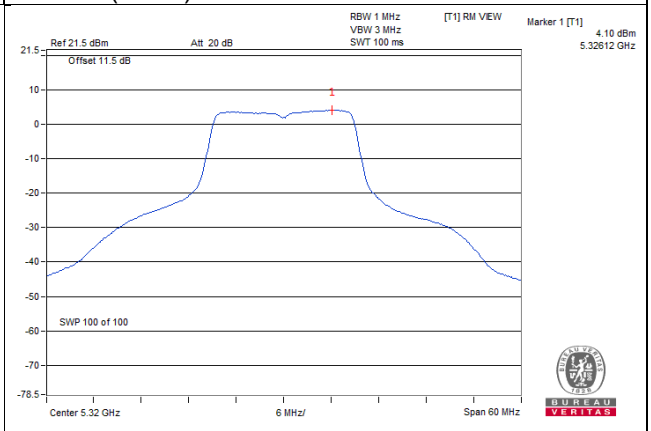
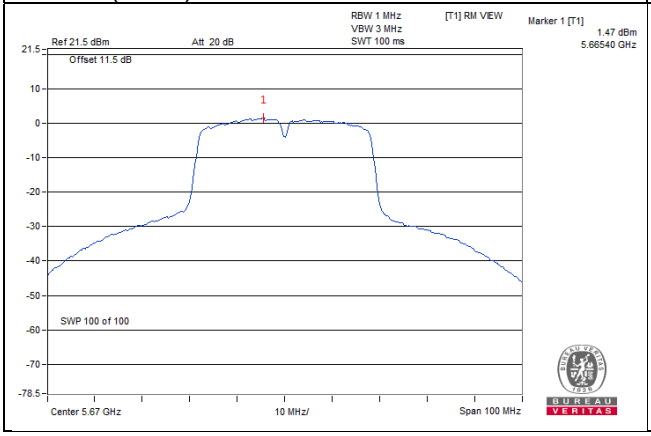
Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	0.53	0.36	0.16	3.62	17	Pass
40	5200	0.52	0.33	0.16	3.60	17	Pass
48	5240	1.82	1.58	0.16	4.87	17	Pass
52	5260	3.15	2.17	0.16	5.86	11	Pass
60	5300	3.52	2.88	0.16	6.38	11	Pass
64	5320	4.10	3.30	0.16	6.89	11	Pass
100	5500	3.28	2.76	0.16	6.20	11	Pass
116	5580	3.59	3.00	0.16	6.47	11	Pass
140	5700	3.46	2.34	0.16	6.11	11	Pass

Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 1.83dBi + 10log(2) = 4.84dBi < 6dBi, so the limit no need to be reduced.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT40)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	-3.86	-4.71	0.22	-1.04	17	Pass
46	5230	0.29	-0.66	0.22	3.07	17	Pass
54	5270	0.79	0.05	0.22	3.66	11	Pass
62	5310	-2.69	-3.95	0.22	-0.05	11	Pass
102	5510	-1.68	-1.91	0.22	1.44	11	Pass
110	5550	0.46	0.31	0.22	3.61	11	Pass
134	5670	1.47	0.99	0.22	4.47	11	Pass

Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 1.83dBi + 10log(2) = 4.84dBi < 6dBi, so the limit no need to be reduced.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value	
802.11a	802.11n (HT20)
	
802.11n (HT40)	
	

For U-NII-3 Band

802.11a

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	-4.77	-2.55	3.01	0.11	0.57	30	Pass
	157	5785	-2.16	0.06	3.01	0.11	3.18	30	Pass
	165	5825	-0.50	1.72	3.01	0.11	4.84	30	Pass
1	149	5745	-5.25	-3.03	3.01	0.11	0.09	30	Pass
	157	5785	-2.78	-0.56	3.01	0.11	2.56	30	Pass
	165	5825	-1.03	1.19	3.01	0.11	4.31	30	Pass

Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 1.83dBi + 10log(2) = 4.84dBi < 6dBi, so the limit no need to be reduced.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	-4.04	-1.82	3.01	0.16	1.35	30	Pass
	157	5785	-2.12	0.10	3.01	0.16	3.27	30	Pass
	165	5825	-0.79	1.43	3.01	0.16	4.60	30	Pass
1	149	5745	-4.29	-2.07	3.01	0.16	1.10	30	Pass
	157	5785	-3.00	-0.78	3.01	0.16	2.39	30	Pass
	165	5825	-1.30	0.92	3.01	0.16	4.09	30	Pass

Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 1.83dBi + 10log(2) = 4.84dBi < 6dBi, so the limit no need to be reduced.
3. Refer to section 3.3 for duty cycle spectrum plot.

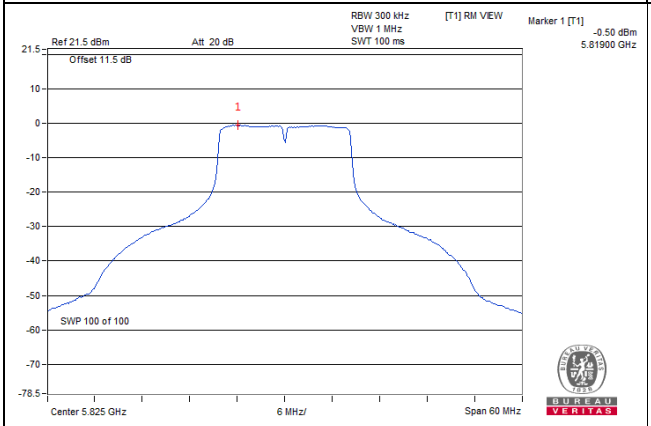
802.11n (HT40)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	151	5755	-7.04	-4.82	3.01	0.22	-1.59	30	Pass
	159	5795	-3.64	-1.42	3.01	0.22	1.81	30	Pass
1	151	5755	-7.25	-5.03	3.01	0.22	-1.80	30	Pass
	159	5795	-4.06	-1.84	3.01	0.22	1.39	30	Pass

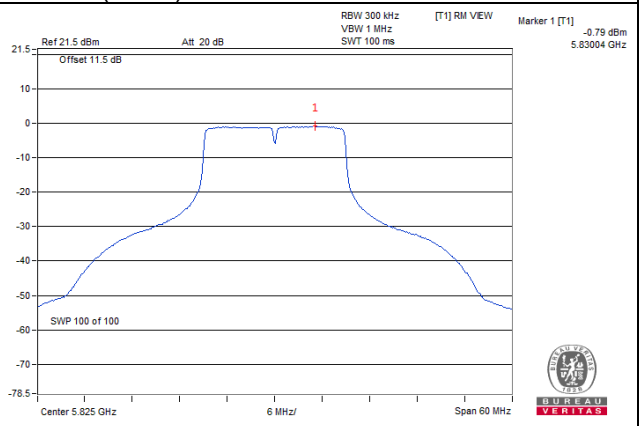
Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 1.83dBi + 10log(2) = 4.84dBi < 6dBi, so the limit no need to be reduced.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

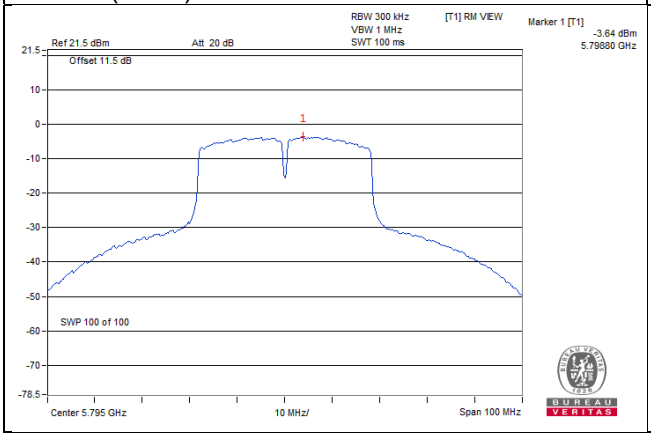
802.11a



802.11n (HT20)



802.11n (HT40)

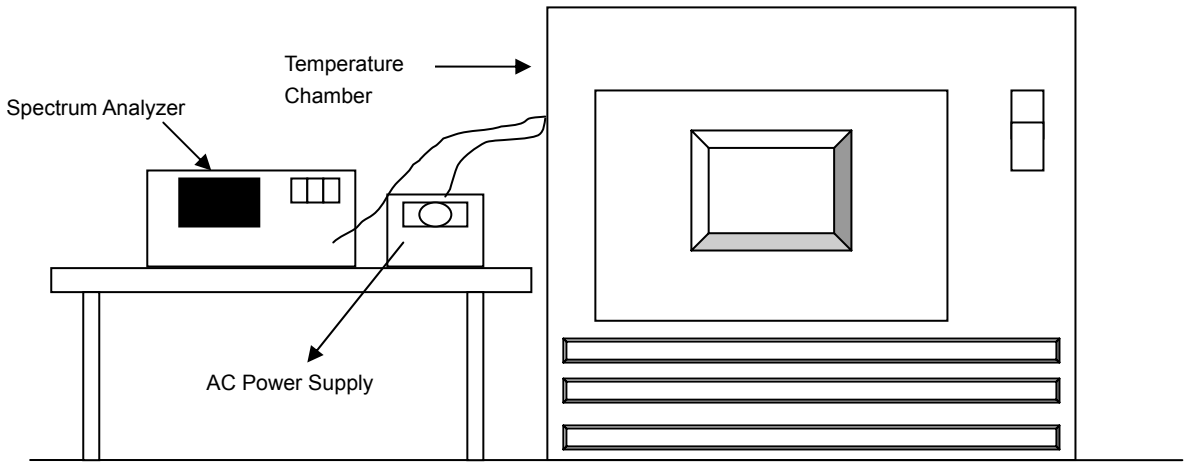


4.6 Frequency Stability

4.6.1 Limits of Frequency Stability Measurement

The frequency of the carrier signal shall be maintained within band of operation

4.6.2 Test Setup



4.6.3 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date Of Calibration	Due Date Of Calibration
Spectrum Analyzer Agilent	E4446A	MY51100039	Aug. 29, 2016	Aug. 28, 2017
WIT STANDARD TEMPERATURE AND HUMIDITY CHAMBER	TH-4S-C	W981030	Jun. 08, 2016	Jun. 07, 2017
Digital Multimeter Fluke	87-III	70360742	Jul. 01, 2016	Jun. 30, 2017
AC Power Supply Extech	CFW-105	E000603	NA	NA

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

4.6.4 Test Procedure

a. The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.

b. Turn the EUT on and couple its output to a spectrum analyzer.

c. Turn the EUT off and set the chamber to the highest temperature specified.

d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.

e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.

f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

Set the EUT transmit at un-modulation mode to test frequency stability.

4.6.7 Test Results

Frequency Stability Versus Temp.									
Operating Frequency: 5700MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
50	120	5700.0226	0.00040	5700.0242	0.00042	5700.02	0.00035	5700.0235	0.00041
40	120	5700.0119	0.00021	5700.0175	0.00031	5700.0151	0.00026	5700.0125	0.00022
30	120	5700.0155	0.00027	5700.0153	0.00027	5700.0188	0.00033	5700.0177	0.00031
20	120	5700.0239	0.00042	5700.0222	0.00039	5700.0255	0.00045	5700.0233	0.00041
10	120	5699.9805	-0.00034	5699.9805	-0.00034	5699.9786	-0.00038	5699.9828	-0.00030
0	120	5699.9953	-0.00008	5699.9976	-0.00004	5699.996	-0.00007	5699.9957	-0.00008
-10	120	5699.9771	-0.00040	5699.9781	-0.00038	5699.9806	-0.00034	5699.9809	-0.00034
-20	120	5700.0204	0.00036	5700.0217	0.00038	5700.0199	0.00035	5700.0216	0.00038
-30	120	5699.9788	-0.00037	5699.9783	-0.00038	5699.9775	-0.00039	5699.9789	-0.00037

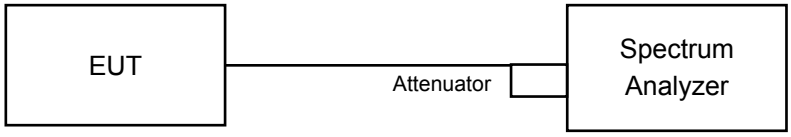
Frequency Stability Versus Voltage									
Operating Frequency: 5700MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	138	5700.0237	0.00042	5700.0213	0.00037	5700.0247	0.00043	5700.0234	0.00041
	120	5700.0239	0.00042	5700.0222	0.00039	5700.0255	0.00045	5700.0233	0.00041
	102	5700.0229	0.00040	5700.0229	0.00040	5700.0266	0.00047	5700.0228	0.00040

4.7 6dB Bandwidth Measurement

4.7.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

4.7.2 Test Setup



4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.7.4 Test Procedure

MEASUREMENT PROCEDURE REF

a. Set resolution bandwidth (RBW) = 100kHz

b. Set the video bandwidth (VBW) ≥ 3 x RBW, Detector = Peak.

c. Trace mode = max hold.

d. Sweep = auto couple.

e. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

4.7.5 Deviation from Test Standard

No deviation.

4.7.6 EUT Operating Condition

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

4.7.7 Test Results

802.11a

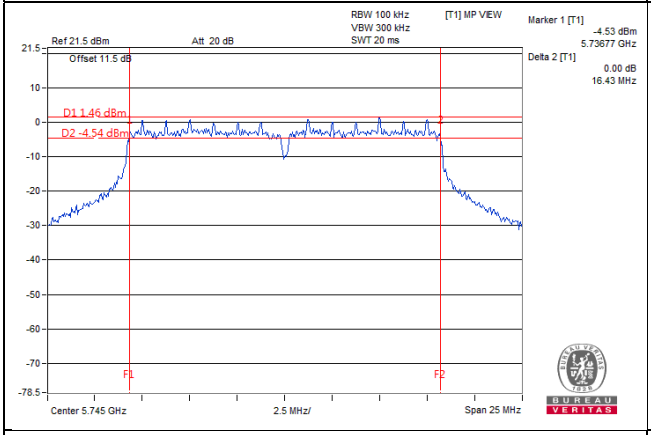
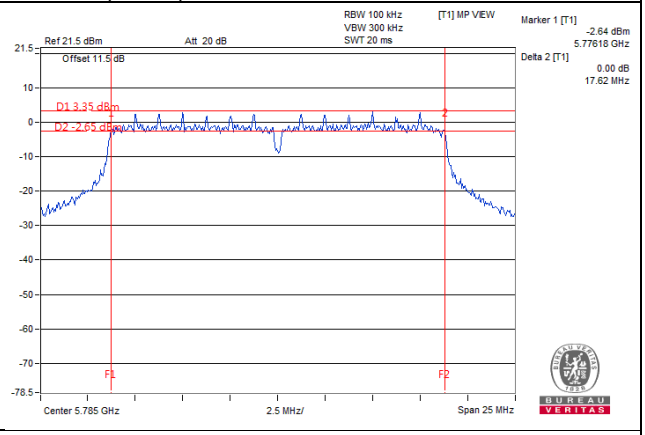
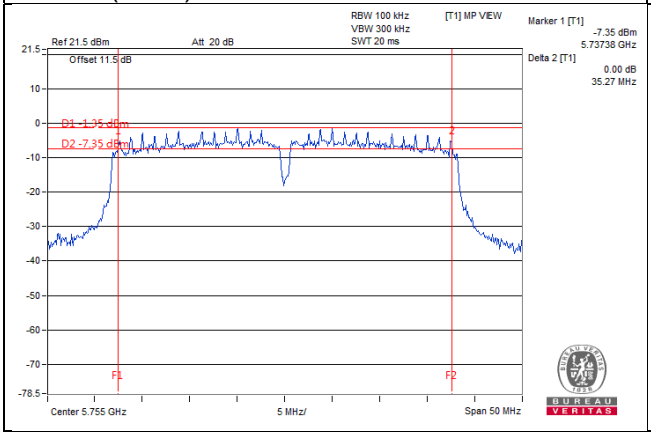
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	16.43	16.43	0.5	Pass
157	5785	16.39	16.40	0.5	Pass
165	5825	16.38	16.43	0.5	Pass

802.11n (HT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	17.32	17.56	0.5	Pass
157	5785	17.59	17.62	0.5	Pass
165	5825	17.58	17.58	0.5	Pass

802.11n (HT40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
151	5755	35.19	35.27	0.5	Pass
159	5795	35.23	35.14	0.5	Pass

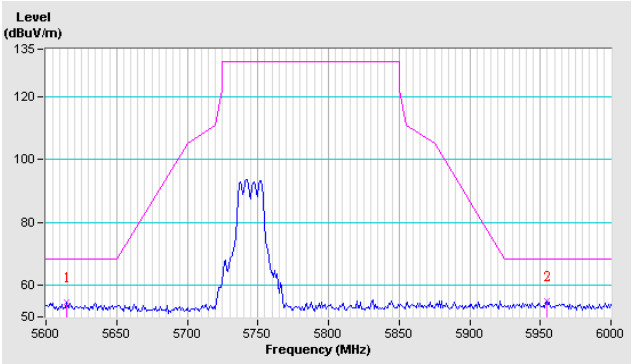
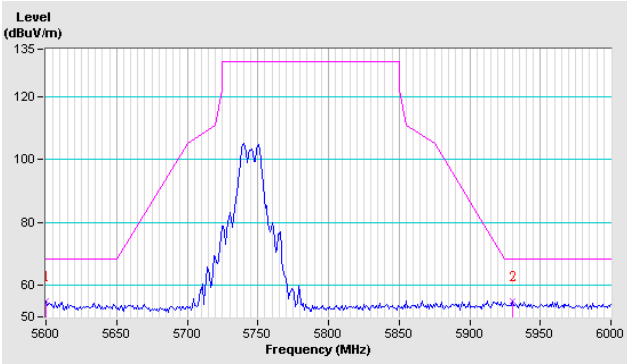
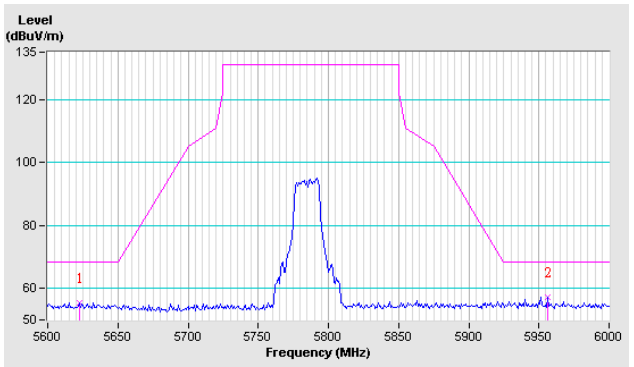
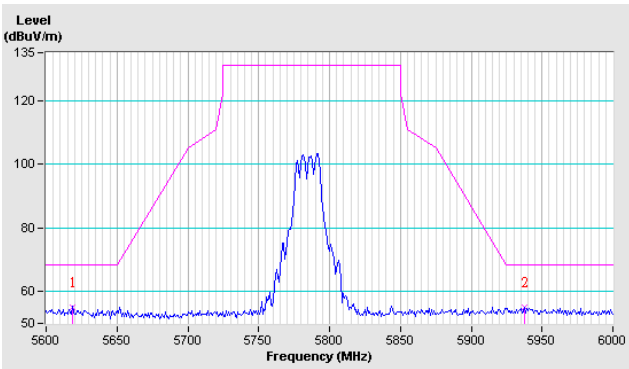
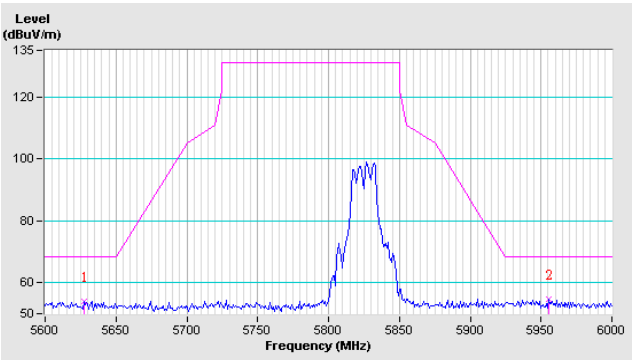
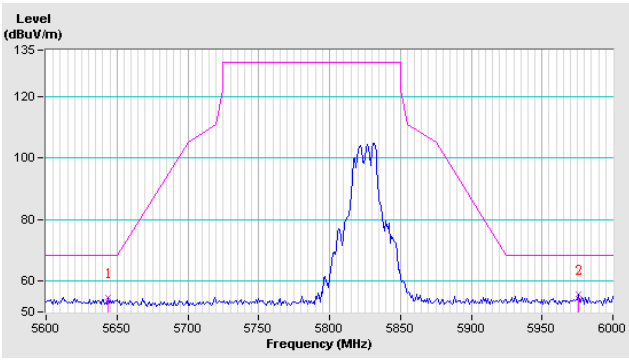
Spectrum Plot of Worst Value	
802.11a	802.11n (HT20)
	
802.11n (HT40)	
	

5 Pictures of Test Arrangements

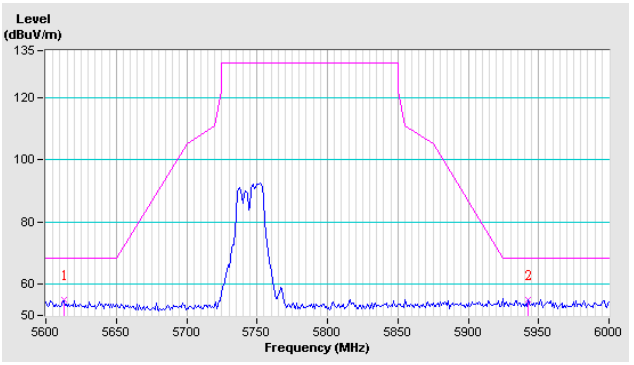
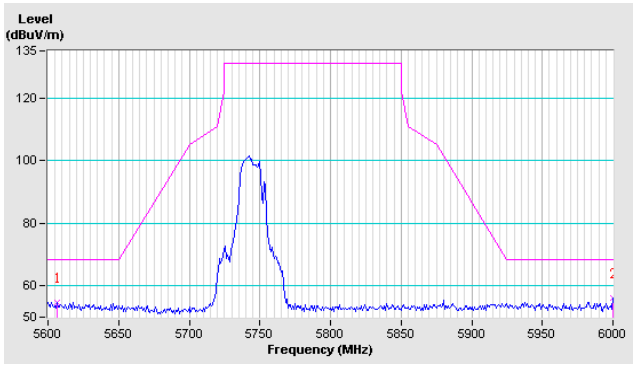
Please refer to the attached file (Test Setup Photo).

Annex A- Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)

802.11a

CH149	
Horizontal	Vertical
	
CH157	
Horizontal	Vertical
	
CH165	
Horizontal	Vertical
	

802.11n (HT20)

CH149	
Horizontal	Vertical
	
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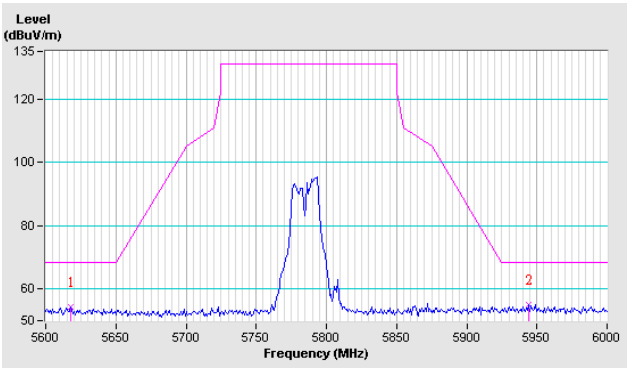
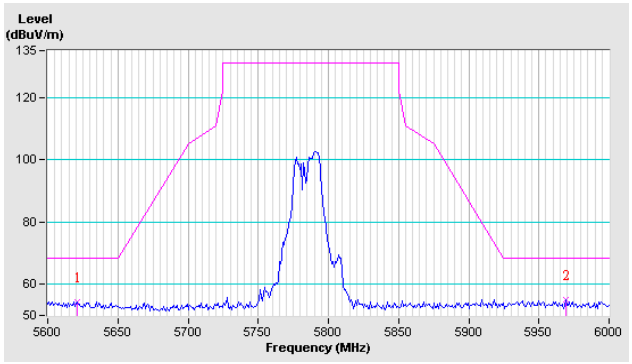
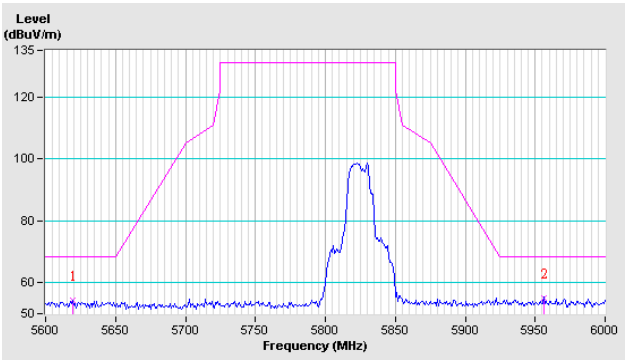
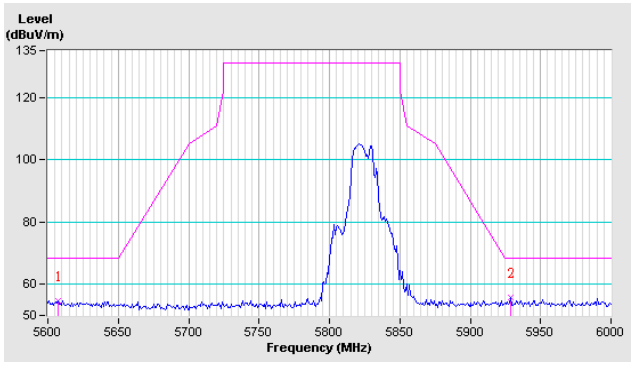
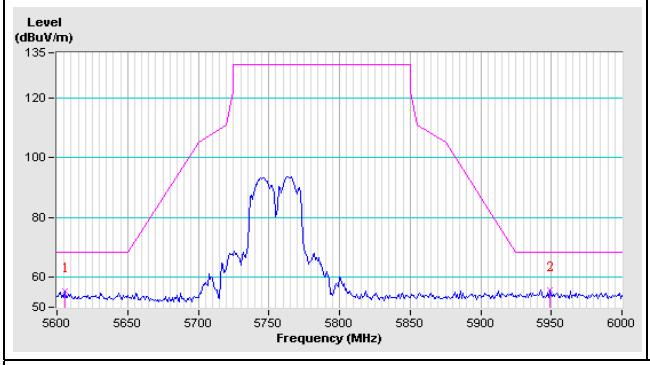
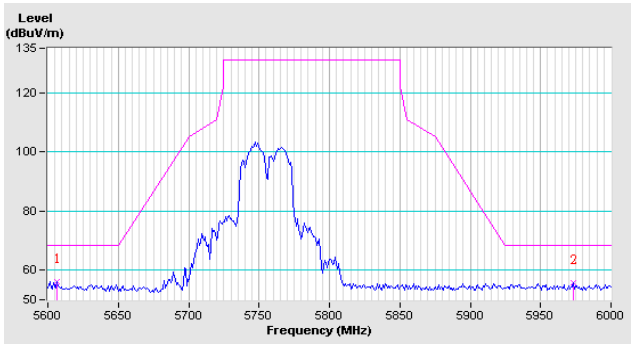
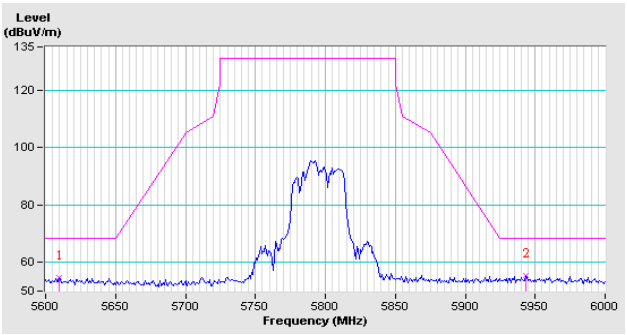
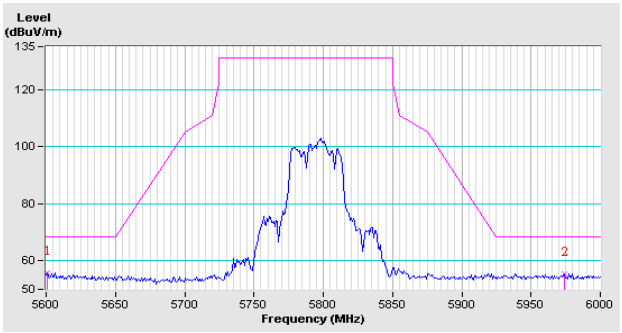
	
CH165	
Horizontal	Vertical
	

802.11n (HT40)

CH151	
Horizontal	Vertical
	
CH159	
Horizontal	Vertical
	

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.

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

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Web Site: www.bureauveritas-adt.com

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

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