



FCC TEST REPORT (15.407)

REPORT NO.: RF121120C08-1

MODEL NO.: C41W-100

FCC ID: G95C41W

RECEIVED: Nov. 20, 2012

TESTED: Dec. 14, 2012 ~ Jan. 03, 2013

ISSUED: Jan. 07, 2013

APPLICANT: Technicolor U.S.A. Inc.

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

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF121120C08-1	Original release	Jan. 07, 2013



1. CERTIFICATION

PRODUCT: DirecTV Setop box

MODEL: C41W-100

BRAND: DirecTV

APPLICANT: Technicolor U.S.A. Inc.

TESTED: Dec. 14, 2012 ~ Jan. 03, 2013

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: FCC Part 15, Subpart E (Section 15.407)

ANSI C63.10-2009

The above equipment (model: C41W-100) 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 :


Pettie Chen / Senior Specialist

, DATE : Jan. 07, 2013

APPROVED BY :


Ken Liu / Manager

, DATE : Jan. 07, 2013

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART E (SECTION 15.407)			
STANDARD SECTION	TEST TYPE	RESULT	REMARK
15.407(b)(6)	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -15.73dB at 0.59531MHz.
15.407(b/1/2/3) (b)(6)	Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -1.0dB at 5470.00, 5725.00MHz.
15.407(a/1/2)	Max Average Transmit Power	PASS	Meet the requirement of limit.
15.407(a)(6)	Peak Power Excursion	PASS	Meet the requirement of limit.
15.407(a/1/2)	Peak Power Spectral Density	PASS	Meet the requirement of limit.
15.407(g)	Frequency Stability	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	Antenna connector is UFL not a standard connector.

2.1 MEASUREMENT UNCERTAINTY

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

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	2.93 dB
	200MHz ~1000MHz	2.95 dB
	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	DirecTV Setop box
MODEL NO.	C41W-100
POWER SUPPLY	12Vdc (Adapter)
MODULATION TYPE	64QAM, 16QAM, QPSK, BPSK
MODULATION TECHNOLOGY	OFDM
TRANSFER RATE	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 600.0Mbps
OPERATING FREQUENCY	5180 ~ 5240MHz, 5260 ~ 5320MHz & 5500 ~ 5700MHz
NUMBER OF CHANNEL	5180 ~ 5240MHz: 4 for 802.11a, 802.11n (20MHz) 2 for 802.11n (40MHz) 5260 ~ 5320MHz: 4 for 802.11a, 802.11n (20MHz) 2 for 802.11n (40MHz) 5500 ~ 5700MHz: 8 for 802.11a, 802.11n (20MHz) 3 for 802.11n (40MHz)
OUTPUT POWER	48.862mW for 5180 ~ 5240MHz 229.201mW for 5260 ~ 5320MHz 242.572mW for 5500 ~ 5700MHz
ANTENNA TYPE	Embedded antenna with 1.7dBi gain
ANTENNA CONNECTOR	UFL
DATA CABLE	NA
I/O PORTS	Refer to user's manual
ACCESSORY DEVICES	Adapter

NOTE:

- The EUT provides 4 completed transmitters and 4 receivers.

MODULATION MODE	TX FUNCTION
802.11a	4TX
802.11n (20MHz)	4TX
802.11n (40MHz)	4TX

- The EUT consumes power from the following adapter.

BRAND:	DIRECTV
MODEL:	EPS10R0-16
INPUT:	120Vac~0.5A, 60Hz
OUTPUT:	12Vdc / 1.5A 18W
POWER LINE:	DC 1.8m non-shielded cable with one core AC 0.8m non-shielded cable without core

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

3.2 DESCRIPTION OF TEST MODES

FOR 5180 ~ 5240MHz

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

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

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

FOR 5260 ~ 5320MHz

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

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

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

FOR 5500 ~ 5700MHz

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

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 (40MHz):

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

3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE \geq 1G	RE<1G	PLC	APCM	
-	√	√	√	√	-

Where **RE \geq 1G**: Radiated Emission above 1GHz **RE<1G**: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission **APCM**: Antenna Port Conducted Measurement

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

RADIATED EMISSION TEST (ABOVE 1GHz):

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

EUT CONFIGURE MODE	MODE	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 (20MHz)		36 to 48	36, 40, 48	OFDM	BPSK	7.2
-	802.11n (40MHz)		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 (20MHz)		52 to 64	52, 60, 64	OFDM	BPSK	7.2
-	802.11n (40MHz)		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 (20MHz)		100 to 140	100, 116, 140	OFDM	BPSK	7.2
-	802.11n (40MHz)		102 to 134	102, 110, 134	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	5180-5320	36 to 64	64	OFDM	BPSK	6.0
-	802.11a	5500-5700	100 to 140	100	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	5180-5320	36 to 64	64	OFDM	BPSK	6.0
-	802.11a	5500-5700	100 to 140	100	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.

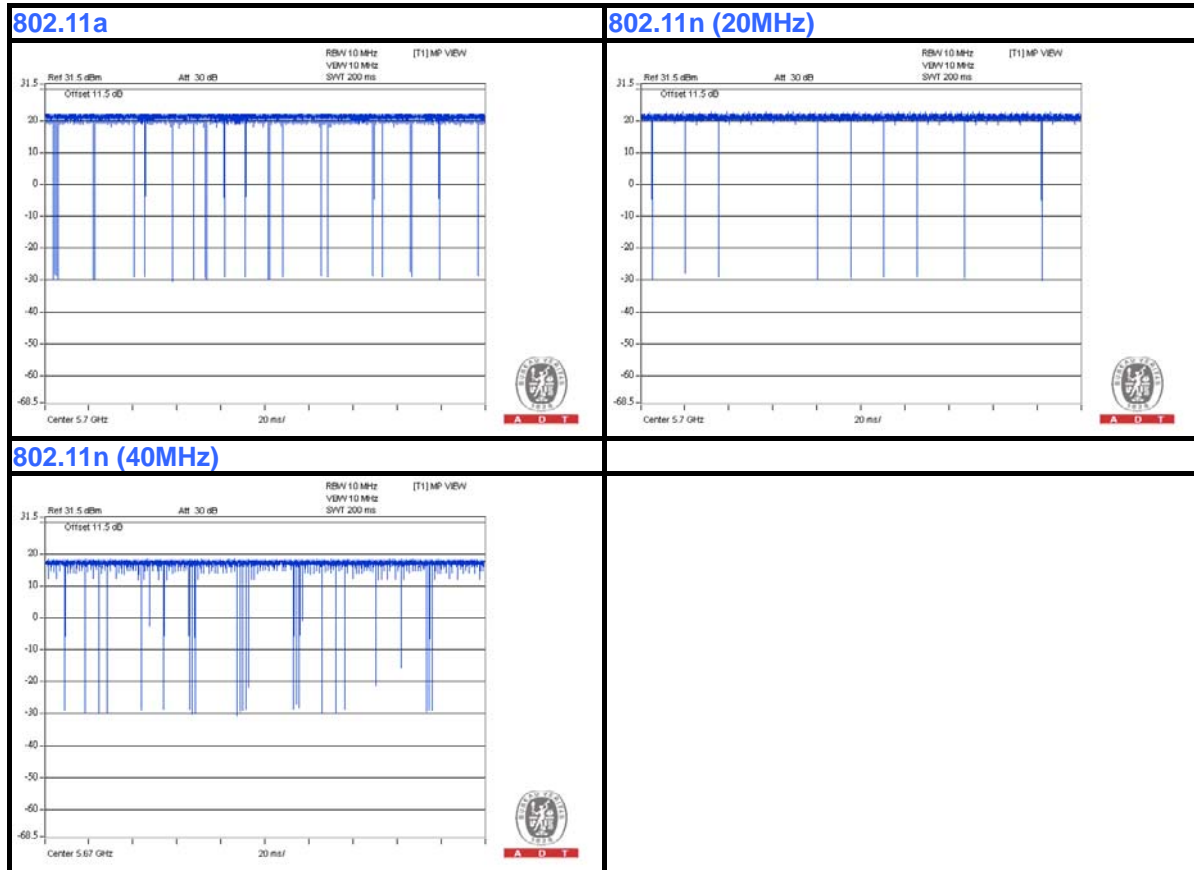
EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
-	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6.0
-	802.11n (20MHz)		36 to 48	36, 40, 48	OFDM	BPSK	7.2
-	802.11n (40MHz)		38 to 46	38, 46	OFDM	BPSK	15.0
-	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6.0
-	802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	BPSK	7.2
-	802.11n (40MHz)		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 (20MHz)		100 to 140	100, 116, 140	OFDM	BPSK	7.2
-	802.11n (40MHz)		102 to 134	102, 110, 134	OFDM	BPSK	15.0

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE≥1G	22deg. C, 67%RH	120Vac, 60Hz	Antony Lee
RE<1G	21deg. C, 66%RH	120Vac, 60Hz	Brad Tung
PLC	25deg. C, 61%RH	120Vac, 60Hz	Antony Lee
APCM	25deg. C, 60%RH	120Vac, 60Hz	Antony Lee

3.3 DUTY CYCLE OF TEST SIGNAL

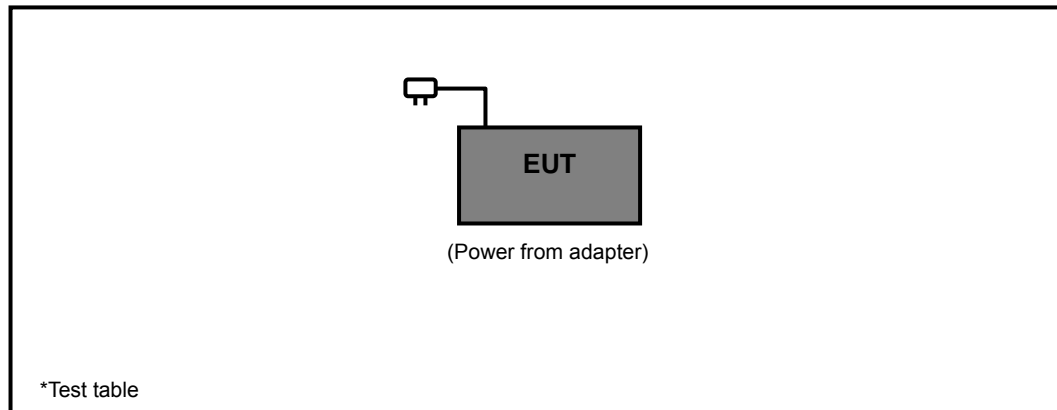
Duty cycle of test signal is 100 %, duty factor is not required.



3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit.

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)

789033 D01 General UNII Test Procedures v01 r02

662911 D01 Multiple Transmitter Output v01 r02

ANSI C63.10-2009

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

4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

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

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.1.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

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

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

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

4.1.3 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCI	100744	Apr. 19, 2012	Apr. 18, 2013
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	Jan. 30, 2012	Jan. 29, 2013
BILOG Antenna SCHWARZBECK	VULB9168	9168-156	Apr. 03, 2012	Apr. 02, 2013
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-563	Sep. 12, 2012	Sep. 11, 2013
HORN Antenna SCHWARZBECK	BBHA 9170	148	Jul. 11, 2012	Jul. 10, 2013
Loop Antenna	HFH2-Z2	100070	Jan. 31, 2012	Jan. 30, 2014
Preamplifier Agilent	8449B	3008A01911	Oct. 25, 2012	Oct. 24, 2013
Preamplifier Agilent	8447D	2944A10638	Oct. 25, 2012	Oct. 24, 2013
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	295013/4 283403/4	Aug. 28, 2012	Aug. 27, 2013
RF signal cable Worken	8D-FB	Cable-HYCH9-01	Aug. 11, 2012	Aug. 10, 2013
Software	ADT_Radiated_ V7.6.15.9.2	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower & Turn Table Controller EMCO	2090	NA	NA	NA
26GHz ~ 40GHz Amplifier	EM26400	815221	Oct. 25, 2012	Oct. 24, 2013
High Speed Peak Power Meter	ML2495A	0842014	Apr. 28, 2012	Apr. 27, 2013
Power Sensor	MA2411B	0738404	Apr. 28, 2012	Apr. 27, 2013

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The calibration interval of the loop antenna is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
 3. The test was performed in HwaYa Chamber 9.
 4. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
 5. The FCC Site Registration No. is 460141.
 6. The IC Site Registration No. is IC 7450F-4.

4.1.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

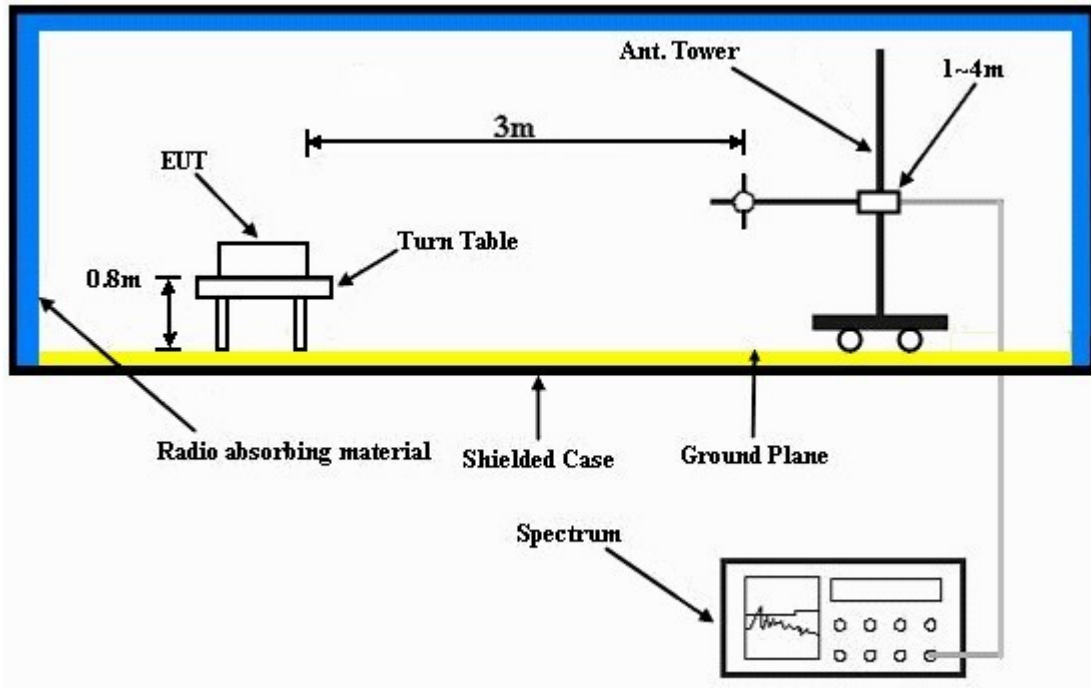
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 1kHz for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.5 DEVIATION FROM TEST STANDARD

No deviation.

4.1.6 TEST SETUP



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

4.1.7 EUT OPERATING CONDITION

- a. Placed the EUT on the testing table.
- b. Set the EUT under transmitting condition.

4.1.8 TEST RESULTS

ABOVE 1GHz DATA

802.11a

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

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	1025.00	47.7 PK	74.0	-26.3	1.00 H	227	20.40	27.30
2	1025.00	46.0 AV	54.0	-8.0	1.00 H	227	18.70	27.30
3	5150.00	45.2 PK	74.0	-28.8	1.00 H	228	7.40	37.80
4	5150.00	33.3 AV	54.0	-20.7	1.00 H	228	-4.50	37.80
5	*5180.00	99.4 PK			1.00 H	228	61.60	37.80
6	*5180.00	89.4 AV			1.00 H	228	51.60	37.80
7	#6906.00	49.9 PK	74.0	-24.1	1.00 H	125	7.50	42.40
8	#6906.00	38.2 AV	54.0	-15.8	1.00 H	125	-4.20	42.40
9	#10360.00	57.5 PK	74.0	-16.5	1.21 H	324	8.70	48.80
10	#10360.00	44.0 AV	54.0	-10.0	1.21 H	324	-4.80	48.80
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	1025.00	47.3 PK	74.0	-26.7	1.50 V	190	20.00	27.30
2	1025.00	45.2 AV	54.0	-8.8	1.50 V	190	17.90	27.30
3	5150.00	56.0 PK	74.0	-18.0	1.00 V	76	18.20	37.80
4	5150.00	45.4 AV	54.0	-8.6	1.00 V	76	7.60	37.80
5	*5180.00	109.3 PK			1.35 V	290	71.50	37.80
6	*5180.00	98.6 AV			1.35 V	290	60.80	37.80
7	#6906.00	53.0 PK	74.0	-21.0	1.02 V	355	10.60	42.40
8	#6906.00	45.1 AV	54.0	-8.9	1.02 V	355	2.70	42.40
9	#10360.00	57.3 PK	74.0	-16.7	1.00 V	211	8.50	48.80
10	#10360.00	44.0 AV	54.0	-10.0	1.00 V	211	-4.80	48.80

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.



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

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	1025.00	48.2 PK	74.0	-25.8	1.00 H	231	20.90	27.30
2	1025.00	46.0 AV	54.0	-8.0	1.00 H	231	18.70	27.30
3	*5200.00	99.6 PK			1.00 H	231	61.70	37.90
4	*5200.00	89.2 AV			1.00 H	231	51.30	37.90
5	#10400.00	57.3 PK	74.0	-16.7	1.19 H	334	8.50	48.80
6	#10400.00	44.2 AV	54.0	-9.8	1.19 H	334	-4.60	48.80
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	1025.00	48.2 PK	74.0	-25.8	1.45 V	188	20.90	27.30
2	1025.00	46.3 AV	54.0	-7.7	1.45 V	188	19.00	27.30
3	*5200.00	110.0 PK			1.00 V	83	72.10	37.90
4	*5200.00	98.9 AV			1.00 V	83	61.00	37.90
5	#10400.00	58.2 PK	74.0	-15.8	1.00 V	205	9.40	48.80
6	#10400.00	44.6 AV	54.0	-9.4	1.00 V	205	-4.20	48.80

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)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	1025.00	47.3 PK	74.0	-26.7	1.00 H	226	20.00	27.30
2	1025.00	45.4 AV	54.0	-8.6	1.00 H	226	18.10	27.30
3	*5240.00	99.6 PK			1.00 H	230	61.70	37.90
4	*5240.00	89.3 AV			1.00 H	230	51.40	37.90
5	#10480.00	58.3 PK	74.0	-15.7	1.20 H	327	9.30	49.00
6	#10480.00	44.6 AV	54.0	-9.4	1.20 H	327	-4.40	49.00
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	1025.00	47.6 PK	74.0	-26.4	1.47 V	188	20.30	27.30
2	1025.00	45.3 AV	54.0	-8.7	1.47 V	188	18.00	27.30
3	*5240.00	109.5 PK			1.28 V	285	71.60	37.90
4	*5240.00	98.7 AV			1.28 V	285	60.80	37.90
5	#10480.00	58.3 PK	74.0	-15.7	1.00 V	216	9.30	49.00
6	#10480.00	45.2 AV	54.0	-8.8	1.00 V	216	-3.80	49.00

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)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	1000.00	46.4 PK	74.0	-27.6	1.47 H	18	19.20	27.20
2	1000.00	43.5 AV	54.0	-10.5	1.47 H	18	16.30	27.20
3	*5260.00	103.7 PK			1.00 H	158	65.80	37.90
4	*5260.00	94.0 AV			1.00 H	158	56.10	37.90
5	#7013.00	52.7 PK	74.0	-21.3	1.63 H	0	10.00	42.70
6	#7013.00	44.1 AV	54.0	-9.9	1.63 H	0	1.40	42.70
7	#10520.00	57.4 PK	74.0	-16.6	1.00 H	158	8.30	49.10
8	#10520.00	45.2 AV	54.0	-8.8	1.00 H	158	-3.90	49.10

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1000.00	45.7 PK	74.0	-28.3	1.00 V	189	18.50	27.20
2	1000.00	42.1 AV	54.0	-11.9	1.00 V	189	14.90	27.20
3	*5260.00	115.2 PK			1.00 V	85	77.30	37.90
4	*5260.00	104.1 AV			1.00 V	85	66.20	37.90
5	#7013.00	54.3 PK	74.0	-19.7	1.00 V	318	11.60	42.70
6	#7013.00	47.8 AV	54.0	-6.2	1.00 V	318	5.10	42.70
7	#10520.00	64.0 PK	74.0	-10.0	1.00 V	2	14.90	49.10
8	#10520.00	48.3 AV	54.0	-5.7	1.00 V	2	-0.80	49.10

REMARKS:

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

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

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	1000.00	46.8 PK	74.0	-27.2	1.38 H	20	19.60	27.20
2	1000.00	44.1 AV	54.0	-9.9	1.38 H	20	16.90	27.20
3	*5300.00	103.6 PK			1.00 H	159	65.60	38.00
4	*5300.00	93.7 AV			1.00 H	159	55.70	38.00
5	10600.00	58.5 PK	74.0	-15.5	1.00 H	147	9.50	49.00
6	10600.00	46.1 AV	54.0	-7.9	1.00 H	147	-2.90	49.00
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	1000.00	45.6 PK	74.0	-28.4	1.00 V	193	18.40	27.20
2	1000.00	42.3 AV	54.0	-11.7	1.00 V	193	15.10	27.20
3	*5300.00	115.6 PK			1.00 V	69	77.60	38.00
4	*5300.00	104.2 AV			1.00 V	69	66.20	38.00
5	10600.00	64.3 PK	74.0	-9.7	1.00 V	3	15.30	49.00
6	10600.00	48.5 AV	54.0	-5.5	1.00 V	3	-0.50	49.00

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)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	1000.00	45.9 PK	74.0	-28.1	1.00 H	6	18.70	27.20
2	1000.00	43.0 AV	54.0	-11.0	1.00 H	6	15.80	27.20
3	*5320.00	103.5 PK			1.00 H	59	65.50	38.00
4	*5320.00	93.9 AV			1.00 H	59	55.90	38.00
5	5350.00	50.8 PK	74.0	-23.2	1.00 H	59	12.70	38.10
6	5350.00	36.9 AV	54.0	-17.1	1.00 H	59	-1.20	38.10
7	10640.00	57.7 PK	74.0	-16.3	1.00 H	23	8.50	49.20
8	10640.00	44.0 AV	54.0	-10.0	1.00 H	23	-5.20	49.20

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	1000.00	45.1 PK	74.0	-28.9	1.00 V	184	17.90	27.20
2	1000.00	41.4 AV	54.0	-12.6	1.00 V	184	14.20	27.20
3	*5320.00	115.3 PK			1.00 V	75	77.30	38.00
4	*5320.00	104.6 AV			1.00 V	75	66.60	38.00
5	5350.00	61.3 PK	74.0	-12.7	1.00 V	75	23.20	38.10
6	5350.00	47.4 AV	54.0	-6.6	1.00 V	75	9.30	38.10
7	10640.00	62.0 PK	74.0	-12.0	1.00 V	10	12.80	49.20
8	10640.00	48.6 AV	54.0	-5.4	1.00 V	10	-0.60	49.20

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.



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

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	1000.00	45.8 PK	74.0	-28.2	1.48 H	18	18.60	27.20
2	1000.00	43.1 AV	54.0	-10.9	1.48 H	18	15.90	27.20
3	5460.00	52.2 PK	74.0	-21.8	1.00 H	165	13.90	38.30
4	5460.00	39.9 AV	54.0	-14.1	1.00 H	165	1.60	38.30
5	#5470.00	56.9 PK	74.0	-17.1	1.00 H	165	18.60	38.30
6	#5470.00	41.9 AV	54.0	-12.1	1.00 H	165	3.60	38.30
7	*5500.00	105.5 PK			1.00 H	165	67.20	38.30
8	*5500.00	95.5 AV			1.00 H	165	57.20	38.30
9	7333.00	53.3 PK	74.0	-20.7	1.00 H	5	9.70	43.60
10	7333.00	44.0 AV	54.0	-10.0	1.00 H	5	0.40	43.60
11	11000.00	58.9 PK	74.0	-15.1	1.20 H	325	9.20	49.70
12	11000.00	44.9 AV	54.0	-9.1	1.20 H	325	-4.80	49.70

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1000.00	44.9 PK	74.0	-29.1	1.00 V	187	17.70	27.20
2	1000.00	41.3 AV	54.0	-12.7	1.00 V	187	14.10	27.20
3	5460.00	58.4 PK	74.0	-15.6	1.00 V	6	20.10	38.30
4	5460.00	47.2 AV	54.0	-6.8	1.00 V	6	8.90	38.30
5	#5470.00	65.6 PK	74.0	-8.4	1.00 V	6	27.30	38.30
6	#5470.00	48.5 AV	54.0	-5.5	1.00 V	6	10.20	38.30
7	*5500.00	115.9 PK			1.00 V	6	77.60	38.30
8	*5500.00	105.8 AV			1.00 V	6	67.50	38.30
9	7333.00	59.1 PK	74.0	-14.9	1.00 V	261	15.50	43.60
10	7333.00	47.1 AV	54.0	-6.9	1.00 V	261	3.50	43.60
11	11000.00	62.1 PK	74.0	-11.9	1.00 V	26	12.40	49.70
12	11000.00	49.0 AV	54.0	-5.0	1.00 V	26	-0.70	49.70

REMARKS:

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

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

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	104.8 PK			1.00 H	172	66.40	38.40
2	*5580.00	95.2 AV			1.00 H	172	56.80	38.40
3	7440.00	54.2 PK	74.0	-19.8	1.00 H	347	10.30	43.90
4	7440.00	45.2 AV	54.0	-8.8	1.00 H	347	1.30	43.90
5	11160.00	60.2 PK	74.0	-13.8	1.18 H	321	10.70	49.50
6	11160.00	46.8 AV	54.0	-7.2	1.18 H	321	-2.70	49.50

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	115.3 PK			1.08 V	7	76.90	38.40
2	*5580.00	105.3 AV			1.08 V	7	66.90	38.40
3	7440.00	53.8 PK	74.0	-20.2	1.00 V	350	9.90	43.90
4	7440.00	44.5 AV	54.0	-9.5	1.00 V	350	0.60	43.90
5	11160.00	63.2 PK	74.0	-10.8	1.00 V	32	13.70	49.50
6	11160.00	49.7 AV	54.0	-4.3	1.00 V	32	0.20	49.50

REMARKS:

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

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

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	106.8 PK			1.00 H	5	68.10	38.70
2	*5700.00	96.4 AV			1.00 H	5	57.70	38.70
3	#5725.00	56.9 PK	74.0	-17.1	1.00 H	5	18.20	38.70
4	#5725.00	44.2 AV	54.0	-9.8	1.00 H	5	5.50	38.70
5	11400.00	57.2 PK	74.0	-16.8	1.00 H	15	7.80	49.40
6	11400.00	44.2 AV	54.0	-9.8	1.00 H	15	-5.20	49.40
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	114.3 PK			1.00 V	301	75.60	38.70
2	*5700.00	103.4 AV			1.00 V	301	64.70	38.70
3	#5725.00	65.5 PK	74.0	-8.5	1.00 V	177	26.80	38.70
4	#5725.00	53.0 AV	54.0	-1.0	1.00 V	177	14.30	38.70
5	7600.00	55.9 PK	74.0	-18.1	1.00 V	26	11.70	44.20
6	7600.00	46.6 AV	54.0	-7.4	1.00 V	26	2.40	44.20
7	11400.00	63.5 PK	74.0	-10.5	1.00 V	33	14.10	49.40
8	11400.00	48.5 AV	54.0	-5.5	1.00 V	33	-0.90	49.40

REMARKS:

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



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802.11n (20MHz)

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

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	44.6 PK	74.0	-29.4	1.26 H	271	6.80	37.80
2	5150.00	32.9 AV	54.0	-21.1	1.26 H	271	-4.90	37.80
3	*5180.00	98.4 PK			1.26 H	271	60.60	37.80
4	*5180.00	88.6 AV			1.26 H	271	50.80	37.80
5	#10360.00	57.2 PK	74.0	-16.8	1.02 H	158	8.40	48.80
6	#10360.00	43.6 AV	54.0	-10.4	1.02 H	158	-5.20	48.80
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	49.0 PK	74.0	-25.0	1.35 V	273	11.20	37.80
2	5150.00	37.5 AV	54.0	-16.5	1.35 V	273	-0.30	37.80
3	*5180.00	108.8 PK			1.00 V	78	71.00	37.80
4	*5180.00	96.9 AV			1.00 V	78	59.10	37.80
5	#10360.00	56.4 PK	74.0	-17.6	1.00 V	215	7.60	48.80
6	#10360.00	44.2 AV	54.0	-9.8	1.00 V	215	-4.60	48.80

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)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	1025.00	48.3 PK	74.0	-25.7	1.00 H	235	21.00	27.30
2	1025.00	46.5 AV	54.0	-7.5	1.00 H	235	19.20	27.30
3	*5200.00	99.9 PK			1.00 H	234	62.00	37.90
4	*5200.00	89.6 AV			1.00 H	234	51.70	37.90
5	#10400.00	57.5 PK	74.0	-16.5	1.20 H	352	8.70	48.80
6	#10400.00	44.8 AV	54.0	-9.2	1.20 H	352	-4.00	48.80
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	1025.00	48.3 PK	74.0	-25.7	1.33 V	189	21.00	27.30
2	1025.00	46.2 AV	54.0	-7.8	1.33 V	189	18.90	27.30
3	*5200.00	110.3 PK			1.00 V	85	72.40	37.90
4	*5200.00	98.6 AV			1.00 V	85	60.70	37.90
5	#10400.00	58.7 PK	74.0	-15.3	1.00 V	231	9.90	48.80
6	#10400.00	44.3 AV	54.0	-9.7	1.00 V	231	-4.50	48.80

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)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	1025.00	48.3 PK	74.0	-25.7	1.00 H	331	21.00	27.30
2	1025.00	46.4 AV	54.0	-7.6	1.00 H	331	19.10	27.30
3	*5240.00	99.3 PK			1.00 H	231	61.40	37.90
4	*5240.00	89.4 AV			1.00 H	231	51.50	37.90
5	#10480.00	58.6 PK	74.0	-15.4	1.15 H	341	9.60	49.00
6	#10480.00	44.7 AV	54.0	-9.3	1.15 H	341	-4.30	49.00

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	1025.00	48.3 PK	74.0	-25.7	1.45 V	192	21.00	27.30
2	1025.00	46.1 AV	54.0	-7.9	1.45 V	192	18.80	27.30
3	*5240.00	109.6 PK			1.25 V	274	71.70	37.90
4	*5240.00	98.5 AV			1.25 V	274	60.60	37.90
5	#10480.00	59.2 PK	74.0	-14.8	1.00 V	221	10.20	49.00
6	#10480.00	45.6 AV	54.0	-8.4	1.00 V	221	-3.40	49.00

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)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	1000.00	45.8 PK	74.0	-28.2	1.28 H	26	18.60	27.20
2	1000.00	42.1 AV	54.0	-11.9	1.28 H	26	14.90	27.20
3	*5260.00	103.5 PK			1.00 H	169	65.60	37.90
4	*5260.00	93.8 AV			1.00 H	169	55.90	37.90
5	#10520.00	58.4 PK	74.0	-15.6	1.00 H	155	9.30	49.10
6	#10520.00	46.3 AV	54.0	-7.7	1.00 H	155	-2.80	49.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1000.00	46.2 PK	74.0	-27.8	1.00 V	233	19.00	27.20
2	1000.00	43.3 AV	54.0	-10.7	1.00 V	233	16.10	27.20
3	*5260.00	114.8 PK			1.00 V	325	76.90	37.90
4	*5260.00	104.2 AV			1.00 V	325	66.30	37.90
5	#10520.00	64.2 PK	74.0	-9.8	1.00 V	5	15.10	49.10
6	#10520.00	48.5 AV	54.0	-5.5	1.00 V	5	-0.60	49.10

REMARKS:

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



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

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	1000.00	47.3 PK	74.0	-26.7	1.25 H	64	20.10	27.20
2	1000.00	45.2 AV	54.0	-8.8	1.25 H	64	18.00	27.20
3	*5300.00	103.5 PK			1.00 H	154	65.50	38.00
4	*5300.00	92.7 AV			1.00 H	154	54.70	38.00
5	10600.00	58.6 PK	74.0	-15.4	1.00 H	148	9.60	49.00
6	10600.00	46.3 AV	54.0	-7.7	1.00 H	148	-2.70	49.00

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	1000.00	46.2 PK	74.0	-27.8	1.00 V	201	19.00	27.20
2	1000.00	43.9 AV	54.0	-10.1	1.00 V	201	16.70	27.20
3	*5300.00	115.8 PK			1.00 V	93	77.80	38.00
4	*5300.00	104.9 AV			1.00 V	93	66.90	38.00
5	10600.00	64.2 PK	74.0	-9.8	1.00 V	2	15.20	49.00
6	10600.00	48.1 AV	54.0	-5.9	1.00 V	2	-0.90	49.00

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)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	1000.00	46.2 PK	74.0	-27.8	1.00 H	5	19.00	27.20
2	1000.00	43.7 AV	54.0	-10.3	1.00 H	5	16.50	27.20
3	*5320.00	105.3 PK			1.01 H	200	67.30	38.00
4	*5320.00	94.7 AV			1.01 H	200	56.70	38.00
5	5350.00	54.6 PK	74.0	-19.4	1.01 H	200	16.50	38.10
6	5350.00	41.3 AV	54.0	-12.7	1.01 H	200	3.20	38.10
7	10640.00	58.3 PK	74.0	-15.7	1.00 H	30	9.10	49.20
8	10640.00	45.2 AV	54.0	-8.8	1.00 H	30	-4.00	49.20

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	1000.00	45.3 PK	74.0	-28.7	1.00 V	198	18.10	27.20
2	1000.00	41.2 AV	54.0	-12.8	1.00 V	198	14.00	27.20
3	*5320.00	114.0 PK			1.00 V	76	76.00	38.00
4	*5320.00	103.5 AV			1.00 V	76	65.50	38.00
5	5350.00	60.7 PK	74.0	-13.3	1.00 V	76	22.60	38.10
6	5350.00	47.0 AV	54.0	-7.0	1.00 V	76	8.90	38.10
7	10640.00	62.3 PK	74.0	-11.7	1.00 V	66	13.10	49.20
8	10640.00	48.9 AV	54.0	-5.1	1.00 V	66	-0.30	49.20

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.



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

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	1000.00	46.2 PK	74.0	-27.8	1.45 H	36	19.00	27.20
2	1000.00	44.7 AV	54.0	-9.3	1.45 H	36	17.50	27.20
3	5460.00	55.8 PK	74.0	-18.2	1.00 H	198	17.50	38.30
4	5460.00	42.4 AV	54.0	-11.6	1.00 H	198	4.10	38.30
5	#5470.00	59.8 PK	74.0	-14.2	1.00 H	198	21.50	38.30
6	#5470.00	44.6 AV	54.0	-9.4	1.00 H	198	6.30	38.30
7	*5500.00	106.4 PK			1.00 H	198	68.10	38.30
8	*5500.00	96.5 AV			1.00 H	198	58.20	38.30
9	7333.00	54.2 PK	74.0	-19.8	1.00 H	6	10.60	43.60
10	7333.00	45.2 AV	54.0	-8.8	1.00 H	6	1.60	43.60
11	11000.00	58.0 PK	74.0	-16.0	1.00 H	236	8.30	49.70
12	11000.00	44.9 AV	54.0	-9.1	1.00 H	236	-4.80	49.70

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	61.3 PK	74.0	-12.7	1.00 V	12	23.00	38.30
2	5460.00	48.1 AV	54.0	-5.9	1.00 V	12	9.80	38.30
3	#5470.00	66.3 PK	74.0	-7.7	1.00 V	12	28.00	38.30
4	#5470.00	51.8 AV	54.0	-2.2	1.00 V	12	13.50	38.30
5	*5500.00	115.2 PK			1.00 V	12	76.90	38.30
6	*5500.00	105.5 AV			1.00 V	12	67.20	38.30
7	11000.00	62.3 PK	74.0	-11.7	1.00 V	25	12.60	49.70
8	11000.00	48.0 AV	54.0	-6.0	1.00 V	25	-1.70	49.70

REMARKS:

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



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

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	104.3 PK			1.00 H	175	65.90	38.40
2	*5580.00	94.3 AV			1.00 H	175	55.90	38.40
3	7440.00	55.3 PK	74.0	-18.7	1.00 H	351	11.40	43.90
4	7440.00	45.1 AV	54.0	-8.9	1.00 H	351	1.20	43.90
5	11160.00	59.5 PK	74.0	-14.5	1.20 H	354	10.00	49.50
6	11160.00	45.9 AV	54.0	-8.1	1.20 H	354	-3.60	49.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	115.6 PK			1.05 V	35	77.20	38.40
2	*5580.00	105.2 AV			1.05 V	35	66.80	38.40
3	7440.00	54.2 PK	74.0	-19.8	1.00 V	355	10.30	43.90
4	7440.00	45.1 AV	54.0	-8.9	1.00 V	355	1.20	43.90
5	11160.00	63.5 PK	74.0	-10.5	1.00 V	324	14.00	49.50
6	11160.00	49.4 AV	54.0	-4.6	1.00 V	324	-0.10	49.50

REMARKS:

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

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

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	106.7 PK			1.00 H	5	68.00	38.70
2	*5700.00	96.1 AV			1.00 H	5	57.40	38.70
3	#5725.00	67.9 PK	74.0	-6.1	1.00 H	5	29.20	38.70
4	#5725.00	47.8 AV	54.0	-6.2	1.00 H	5	9.10	38.70
5	11400.00	57.3 PK	74.0	-16.7	1.00 H	158	7.90	49.40
6	11400.00	45.6 AV	54.0	-8.4	1.00 H	158	-3.80	49.40
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	114.2 PK			1.00 V	178	75.50	38.70
2	*5700.00	103.4 AV			1.00 V	178	64.70	38.70
3	#5725.00	71.6 PK	74.0	-2.4	1.00 V	176	32.90	38.70
4	#5725.00	52.4 AV	54.0	-1.6	1.00 V	176	13.70	38.70
5	11400.00	62.3 PK	74.0	-11.7	1.00 V	35	12.90	49.40
6	11400.00	48.4 AV	54.0	-5.6	1.00 V	35	-1.00	49.40

REMARKS:

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



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802.11n (40MHz)

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

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	52.4 PK	74.0	-21.6	1.00 H	37	14.60	37.80
2	5150.00	40.3 AV	54.0	-13.7	1.00 H	37	2.50	37.80
3	*5190.00	95.9 PK			1.00 H	38	58.10	37.80
4	*5190.00	85.9 AV			1.00 H	38	48.10	37.80
5	#10380.00	56.0 PK	74.0	-18.0	1.00 H	158	7.20	48.80
6	#10380.00	44.1 AV	54.0	-9.9	1.00 H	158	-4.70	48.80
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	1000.00	45.1 PK	74.0	-28.9	1.00 V	188	17.90	27.20
2	1000.00	42.1 AV	54.0	-11.9	1.00 V	188	14.90	27.20
3	5150.00	59.6 PK	74.0	-14.4	1.67 V	275	21.80	37.80
4	5150.00	42.8 AV	54.0	-11.2	1.67 V	275	5.00	37.80
5	*5190.00	105.1 PK			1.67 V	275	67.30	37.80
6	*5190.00	95.6 AV			1.67 V	275	57.80	37.80
7	#10380.00	56.9 PK	74.0	-17.1	1.00 V	169	8.10	48.80
8	#10380.00	43.9 AV	54.0	-10.1	1.00 V	169	-4.90	48.80

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)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	1025.00	49.2 PK	74.0	-24.8	1.00 H	236	21.90	27.30
2	1025.00	46.1 AV	54.0	-7.9	1.00 H	236	18.80	27.30
3	*5230.00	95.7 PK			1.00 H	44	57.80	37.90
4	*5230.00	85.4 AV			1.00 H	44	47.50	37.90
5	#10460.00	56.3 PK	74.0	-17.7	1.00 H	152	7.30	49.00
6	#10460.00	44.5 AV	54.0	-9.5	1.00 H	152	-4.50	49.00
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	1000.00	45.3 PK	74.0	-28.7	1.00 V	125	18.10	27.20
2	1000.00	42.4 AV	54.0	-11.6	1.00 V	125	15.20	27.20
3	*5230.00	105.2 PK			1.52 V	66	67.30	37.90
4	*5230.00	94.8 AV			1.52 V	66	56.90	37.90
5	#10460.00	57.2 PK	74.0	-16.8	1.00 V	120	8.20	49.00
6	#10460.00	44.5 AV	54.0	-9.5	1.00 V	120	-4.50	49.00

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)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	1025.00	50.3 PK	74.0	-23.7	1.00 H	241	23.00	27.30
2	1025.00	46.2 AV	54.0	-7.8	1.00 H	241	18.90	27.30
3	*5270.00	99.2 PK			1.00 H	30	61.20	38.00
4	*5270.00	89.7 AV			1.00 H	30	51.70	38.00
5	#10540.00	57.3 PK	74.0	-16.7	1.00 H	102	8.20	49.10
6	#10540.00	45.2 AV	54.0	-8.8	1.00 H	102	-3.90	49.10

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1000.00	45.3 PK	74.0	-28.7	1.00 V	185	18.10	27.20
2	1000.00	42.7 AV	54.0	-11.3	1.00 V	185	15.50	27.20
3	*5270.00	111.2 PK			1.00 V	77	73.20	38.00
4	*5270.00	101.4 AV			1.00 V	77	63.40	38.00
5	#10540.00	56.3 PK	74.0	-17.7	1.00 V	172	7.20	49.10
6	#10540.00	43.6 AV	54.0	-10.4	1.00 V	172	-5.50	49.10

REMARKS:

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

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

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	97.2 PK			1.00 H	33	59.20	38.00
2	*5310.00	87.6 AV			1.00 H	33	49.60	38.00
3	5350.00	62.4 PK	74.0	-11.6	1.00 H	31	24.30	38.10
4	5350.00	48.1 AV	54.0	-5.9	1.00 H	31	10.00	38.10
5	10620.00	56.3 PK	74.0	-17.7	1.00 H	155	7.20	49.10
6	10620.00	44.2 AV	54.0	-9.8	1.00 H	155	-4.90	49.10

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	109.4 PK			1.00 V	77	71.40	38.00
2	*5310.00	99.4 AV			1.00 V	77	61.40	38.00
3	5350.00	69.2 PK	74.0	-4.8	1.00 V	77	31.10	38.10
4	5350.00	52.7 AV	54.0	-1.3	1.00 V	77	14.60	38.10
5	10620.00	57.3 PK	74.0	-16.7	1.00 V	155	8.20	49.10
6	10620.00	42.5 AV	54.0	-11.5	1.00 V	155	-6.60	49.10

REMARKS:

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

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

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	53.3 PK	74.0	-20.7	1.00 H	175	15.00	38.30
2	5460.00	41.1 AV	54.0	-12.9	1.00 H	175	2.80	38.30
3	#5470.00	59.3 PK	74.0	-14.7	1.00 H	175	21.00	38.30
4	#5470.00	43.4 AV	54.0	-10.6	1.00 H	175	5.10	38.30
5	*5510.00	100.6 PK			1.00 H	175	62.20	38.40
6	*5510.00	91.0 AV			1.00 H	175	52.60	38.40
7	11020.00	57.0 PK	74.0	-17.0	1.00 H	120	7.40	49.60
8	11020.00	45.1 AV	54.0	-8.9	1.00 H	120	-4.50	49.60

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	63.7 PK	74.0	-10.3	1.00 V	9	25.40	38.30
2	5460.00	47.1 AV	54.0	-6.9	1.00 V	9	8.80	38.30
3	#5470.00	67.9 PK	74.0	-6.1	1.00 V	9	29.60	38.30
4	#5470.00	53.0 AV	54.0	-1.0	1.00 V	9	14.70	38.30
5	*5510.00	110.9 PK			1.00 V	9	72.50	38.40
6	*5510.00	101.0 AV			1.00 V	9	62.60	38.40
7	11020.00	57.3 PK	74.0	-16.7	1.00 V	336	7.70	49.60
8	11020.00	45.0 AV	54.0	-9.0	1.00 V	336	-4.60	49.60

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)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	1000.00	47.2 PK	74.0	-26.8	1.00 H	158	20.00	27.20
2	1000.00	43.1 AV	54.0	-10.9	1.00 H	158	15.90	27.20
3	*5550.00	103.4 PK			1.00 H	198	65.00	38.40
4	*5550.00	93.9 AV			1.00 H	198	55.50	38.40
5	11100.00	57.2 PK	74.0	-16.8	1.00 H	159	7.70	49.50
6	11100.00	44.6 AV	54.0	-9.4	1.00 H	159	-4.90	49.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1000.00	50.3 PK	74.0	-23.7	1.00 V	241	23.10	27.20
2	1000.00	45.9 AV	54.0	-8.1	1.00 V	241	18.70	27.20
3	*5550.00	112.7 PK			1.00 V	20	74.30	38.40
4	*5550.00	102.7 AV			1.00 V	20	64.30	38.40
5	11100.00	56.2 PK	74.0	-17.8	1.00 V	133	6.70	49.50
6	11100.00	45.1 AV	54.0	-8.9	1.00 V	133	-4.40	49.50

REMARKS:

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

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

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	102.6 PK			1.00 H	18	64.00	38.60
2	*5670.00	92.9 AV			1.00 H	18	54.30	38.60
3	#5725.00	54.8 PK	74.0	-19.2	1.00 H	18	16.10	38.70
4	#5725.00	41.2 AV	54.0	-12.8	1.00 H	18	2.50	38.70
5	11340.00	58.2 PK	74.0	-15.8	1.00 H	169	8.70	49.50
6	11340.00	45.1 AV	54.0	-8.9	1.00 H	169	-4.40	49.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	111.2 PK			1.00 V	175	72.60	38.60
2	*5670.00	101.2 AV			1.00 V	175	62.60	38.60
3	#5725.00	59.2 PK	74.0	-14.8	1.00 V	175	20.50	38.70
4	#5725.00	46.5 AV	54.0	-7.5	1.00 V	175	7.80	38.70
5	11340.00	56.8 PK	74.0	-17.2	1.00 V	135	7.30	49.50
6	11340.00	45.3 AV	54.0	-8.7	1.00 V	135	-4.20	49.50

REMARKS:

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



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BELOW 1GHz WORST-CASE DATA

802.11a

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 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	125.06	29.7 QP	43.5	-13.8	1.50 H	87	17.90	11.80
2	156.10	30.4 QP	43.5	-13.1	1.99 H	89	16.70	13.70
3	204.60	28.1 QP	43.5	-15.4	1.00 H	291	17.10	11.00
4	530.52	36.8 QP	46.0	-9.2	1.25 H	324	16.10	20.70
5	662.44	39.0 QP	46.0	-7.0	1.99 H	5	16.00	23.00
6	875.84	40.0 QP	46.0	-6.0	1.50 H	296	13.90	26.10

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	70.74	28.0 QP	40.0	-12.0	1.00 V	4	16.00	12.00
2	156.10	25.3 QP	43.5	-18.2	1.25 V	1	11.60	13.70
3	344.28	29.4 QP	46.0	-16.6	1.25 V	344	13.40	16.00
4	524.70	34.6 QP	46.0	-11.4	1.49 V	172	14.00	20.60
5	549.92	29.9 QP	46.0	-16.1	1.00 V	174	8.70	21.20
6	641.10	30.7 QP	46.0	-15.3	1.25 V	16	7.90	22.80

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.



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CHANNEL	TX Channel 100	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 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	123.12	29.9 QP	43.5	-13.6	1.49 H	99	18.30	11.60
2	156.10	30.1 QP	43.5	-13.4	1.49 H	87	16.40	13.70
3	282.20	29.2 QP	46.0	-16.8	1.24 H	284	15.00	14.20
4	526.64	36.2 QP	46.0	-9.8	1.49 H	333	15.50	20.70
5	662.44	36.5 QP	46.0	-9.5	1.24 H	159	13.50	23.00
6	875.84	40.4 QP	46.0	-5.6	1.49 H	301	14.30	26.10

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	72.68	26.5 QP	40.0	-13.5	2.00 V	359	15.10	11.40
2	156.10	25.2 QP	43.5	-18.3	1.25 V	13	11.50	13.70
3	315.18	27.3 QP	46.0	-18.7	1.50 V	234	12.00	15.30
4	348.16	28.5 QP	46.0	-17.5	1.25 V	358	12.40	16.10
5	425.76	31.3 QP	46.0	-14.7	2.00 V	145	13.30	18.00
6	530.52	34.8 QP	46.0	-11.2	1.50 V	158	14.10	20.70

REMARKS:

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

4.2 CONDUCTED EMISSION MEASUREMENT

4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

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

- NOTE:** 1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCS30	100288	Nov. 09, 2012	Nov. 08, 2013
RF signal cable Woken	5D-FB	Cable-HYCO2-01	Dec. 28, 2012	Dec. 27, 2013
LISN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Dec. 21, 2012	Dec. 20, 2013
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Jul. 06, 2012	Jul. 05, 2013
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

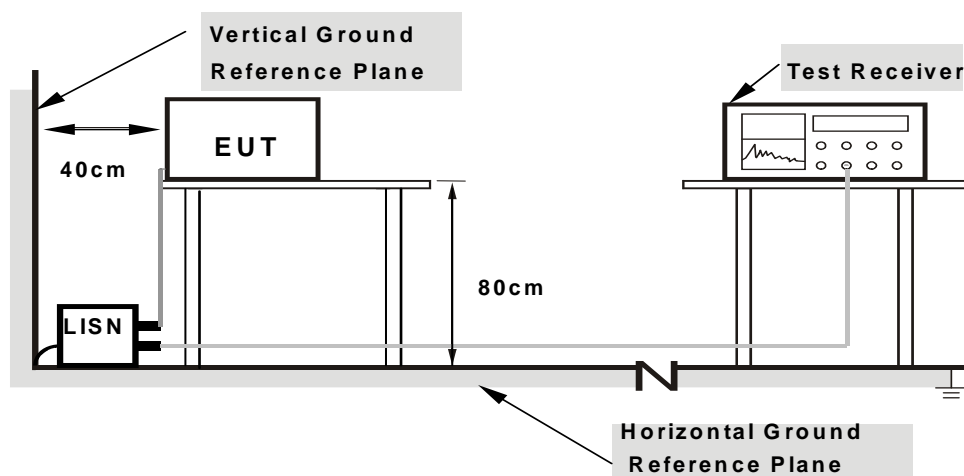
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

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

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



- Note:**
- Support units were connected to second LISN.
 - Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6.

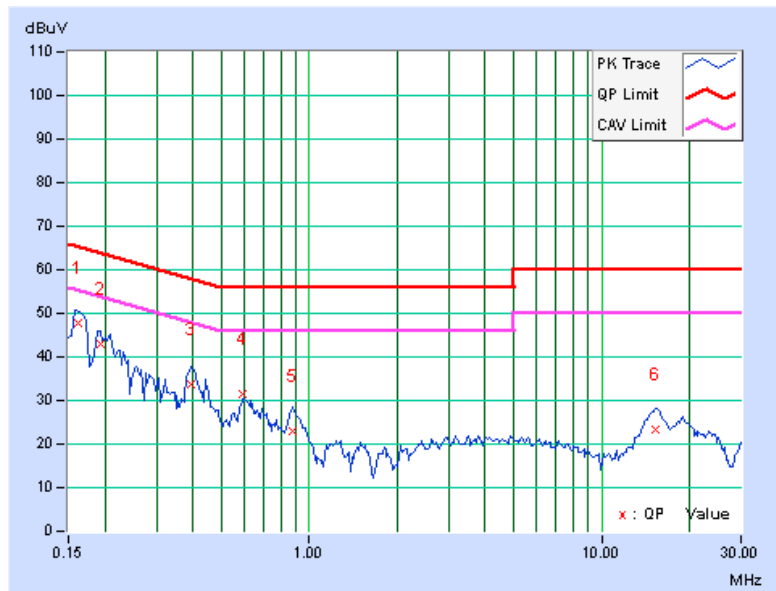
4.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA : 802.11a

PHASE	Line 1	6dB BANDWIDTH	9kHz
CHANNEL	Channel 64		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16172	0.12	47.55	34.48	47.67	34.60	65.38	55.38	-17.70	-20.77
2	0.19297	0.13	42.81	31.28	42.94	31.41	63.91	53.91	-20.97	-22.50
3	0.39219	0.15	33.43	26.50	33.58	26.65	58.02	48.02	-24.44	-21.37
4	0.59531	0.15	31.16	30.12	31.31	30.27	56.00	46.00	-24.69	-15.73
5	0.88047	0.16	22.92	14.89	23.08	15.05	56.00	46.00	-32.92	-30.95
6	15.26563	0.69	22.72	16.54	23.41	17.23	60.00	50.00	-36.59	-32.77

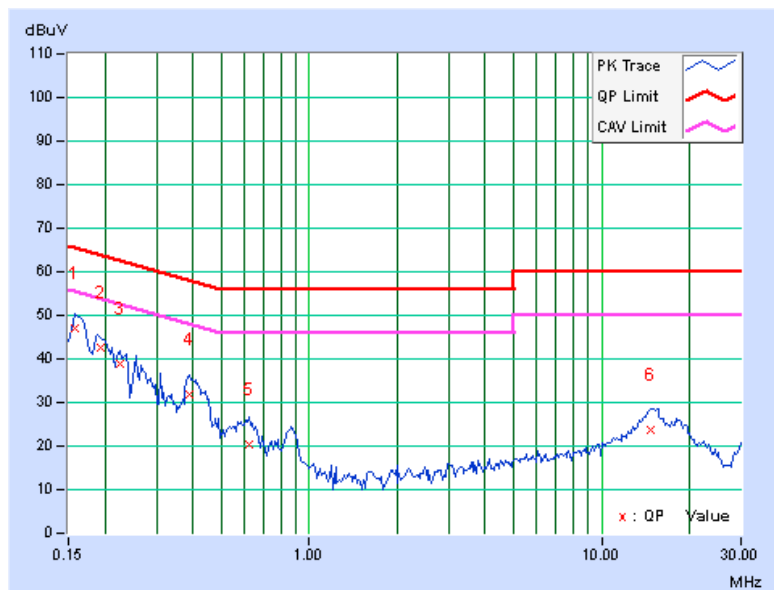
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. The emission levels of other frequencies were very low against the limit.
 3. Margin value = Emission level - Limit value
 4. Correction factor = Insertion loss + Cable loss
 5. Emission Level = Correction Factor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



PHASE	Line 2	6dB BANDWIDTH	9kHz
CHANNEL	Channel 64		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15781	0.12	47.06	33.83	47.18	33.95	65.58	55.58	-18.40	-21.63
2	0.19288	0.13	42.50	32.42	42.63	32.55	63.91	53.91	-21.28	-21.36
3	0.22422	0.13	38.67	29.01	38.80	29.14	62.66	52.66	-23.86	-23.52
4	0.38828	0.15	31.72	25.93	31.87	26.08	58.10	48.10	-26.23	-22.02
5	0.62266	0.15	20.19	8.07	20.34	8.22	56.00	46.00	-35.66	-37.78
6	14.72656	0.68	23.10	17.86	23.78	18.54	60.00	50.00	-36.22	-31.46

- 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.



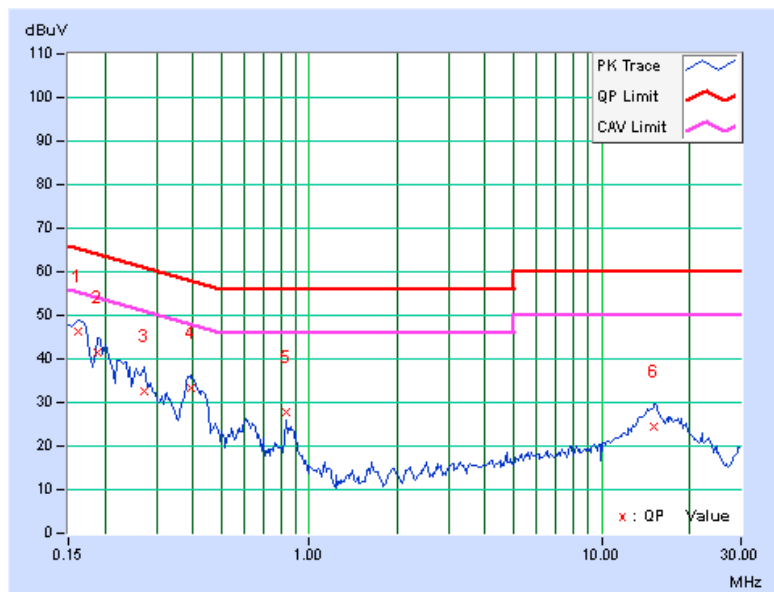


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PHASE	Line 1	6dB BANDWIDTH	9kHz
CHANNEL	Channel 100		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16172	0.10	46.08	34.28	46.18	34.38	65.38	55.38	-19.19	-20.99
2	0.18906	0.12	41.54	29.78	41.66	29.90	64.08	54.08	-22.42	-24.18
3	0.27109	0.13	32.36	21.21	32.49	21.34	61.08	51.08	-28.60	-29.75
4	0.39609	0.14	33.26	25.22	33.40	25.36	57.93	47.93	-24.54	-22.58
5	0.83359	0.15	27.64	19.33	27.79	19.48	56.00	46.00	-28.21	-26.52
6	15.13281	0.87	23.69	18.40	24.56	19.27	60.00	50.00	-35.44	-30.73

- 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.



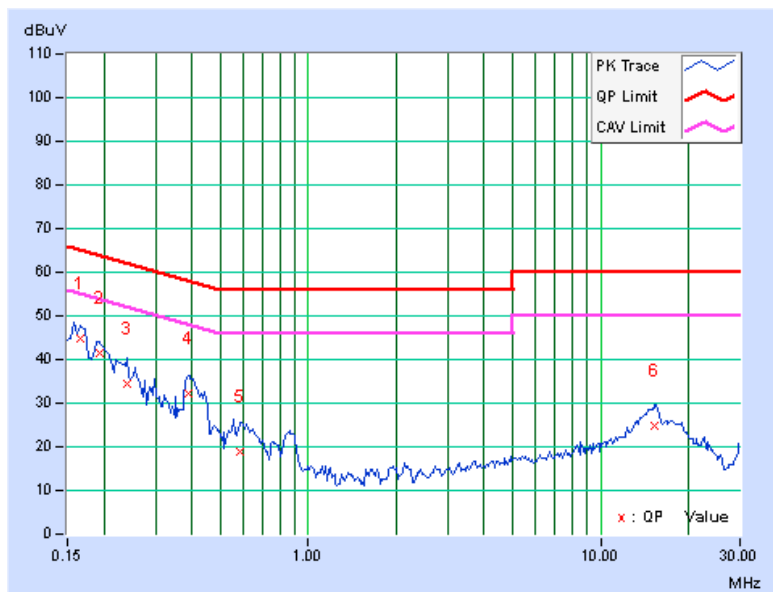


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PHASE	Line 2	6dB BANDWIDTH	9kHz
CHANNEL	Channel 100		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16562	0.12	44.78	32.70	44.90	32.82	65.18	55.18	-20.27	-22.35
2	0.19297	0.13	41.41	30.69	41.54	30.82	63.91	53.91	-22.37	-23.09
3	0.23984	0.13	34.41	23.80	34.54	23.93	62.10	52.10	-27.56	-28.17
4	0.38828	0.15	31.98	26.37	32.13	26.52	58.10	48.10	-25.97	-21.58
5	0.58750	0.15	18.76	4.91	18.91	5.06	56.00	46.00	-37.09	-40.94
6	15.24219	0.69	23.97	18.42	24.66	19.11	60.00	50.00	-35.34	-30.89

- 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 PEAK TRANSMIT POWER MEASUREMENT

4.3.1 LIMITS OF PEAK TRANSMIT POWER MEASUREMENT

FREQUENCY BAND	LIMIT
5.150 ~ 5.250GHz	The lesser of 50mW (17dBm) or 4dBm + 10logB
5.250 ~ 5.350GHz	The lesser of 250mW (24dBm) or 11dBm + 10logB
5.470 ~ 5.725GHz	The lesser of 250mW (24dBm) or 11dBm + 10logB

NOTE: Where B is the 26dB emission bandwidth in MHz.

Per KDB 662911 D01 Multiple Transmitter Output v01r02 Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4;

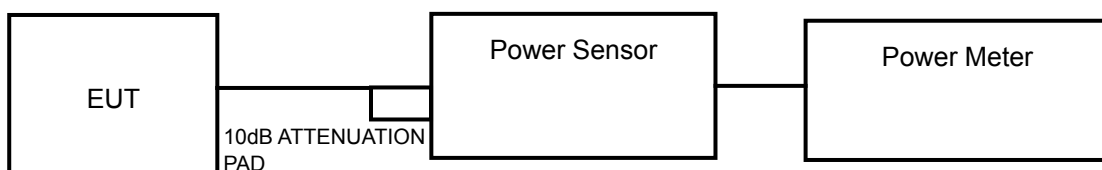
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any NANT;

Array Gain = 5 log(NANT/NSS) dB or 3 dB, whichever is less for 20-MHz channel widths with NANT ≥ 5.

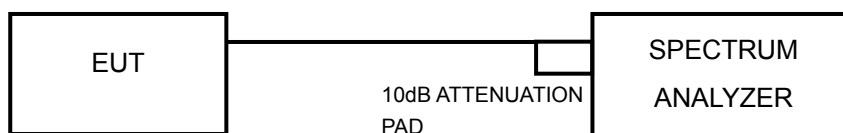
For power measurements on all other devices: Array Gain = 10 log(NANT/NSS) dB.

4.3.2 TEST SETUP

FOR POWER OUTPUT MEASUREMENT



FOR 26dB BANDWIDTH



4.3.3 TEST INSTRUMENTS

Refer to section 4.1.3 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 FROM TEST STANDARD

No deviation.

4.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.



4.3.7 TEST RESULTS

POWER OUTPUT: 802.11a

CHAN.	CHAN. FREQ. (MHz)	AVERAGE POWER (dBm)				TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	CHAIN 3				
36	5180	10.92	10.67	10.94	10.62	47.979	16.81	17	PASS
40	5200	10.98	10.48	10.91	10.58	47.460	16.76	17	PASS
48	5240	10.96	10.38	10.89	10.64	47.250	16.74	17	PASS
52	5260	17.52	17.52	17.32	17.04	217.521	23.38	24	PASS
60	5300	17.41	17.38	17.58	17.28	220.519	23.43	24	PASS
64	5320	18.02	17.44	17.79	17.01	229.201	23.60	24	PASS
100	5500	18.01	17.52	17.48	17.39	230.539	23.63	24	PASS
116	5580	17.92	17.22	17.39	17.08	220.545	23.43	24	PASS
140	5700	17.69	17.71	17.02	17.02	218.469	23.39	24	PASS

802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	AVERAGE POWER (dBm)				TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	CHAIN 3				
36	5180	11.18	10.68	10.82	10.78	48.862	16.89	17	PASS
40	5200	10.92	10.62	10.85	10.85	48.218	16.83	17	PASS
48	5240	10.98	10.41	10.52	10.72	46.596	16.68	17	PASS
52	5260	17.62	17.28	17.62	17.01	219.310	23.41	24	PASS
60	5300	17.68	17.31	17.39	17.22	219.992	23.42	24	PASS
64	5320	17.91	17.19	17.42	16.89	218.235	23.39	24	PASS
100	5500	17.82	17.78	17.34	17.02	225.063	23.52	24	PASS
116	5580	17.52	17.24	17.52	17.08	217.004	23.36	24	PASS
140	5700	18.04	17.52	17.31	17.19	226.361	23.55	24	PASS



802.11n (40MHz)

CHAN.	CHAN. FREQ. (MHz)	AVERAGE POWER (dBm)				TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	CHAIN 3				
38	5190	11.02	10.28	10.41	10.57	45.705	16.60	17	PASS
46	5230	10.88	10.02	10.42	10.38	44.221	16.46	17	PASS
54	5270	17.28	17.04	17.22	16.72	203.750	23.09	24	PASS
62	5310	14.32	14.95	14.86	14.71	118.501	20.74	24	PASS
102	5510	14.52	15.07	14.91	15.38	125.939	21.00	24	PASS
110	5550	17.25	16.92	16.89	16.58	196.656	22.94	24	PASS
134	5670	18.01	17.79	17.91	17.59	242.572	23.85	24	PASS

26dB BANDWIDTH:

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)				PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	CHAIN 3	
36	5180	21.11	20.85	20.12	19.99	PASS
40	5200	20.86	20.37	19.91	19.95	PASS
48	5240	20.64	20.82	20.38	20.34	PASS
52	5260	22.13	21.36	21.94	20.71	PASS
60	5300	22.10	21.88	20.95	20.45	PASS
64	5320	21.62	21.67	21.06	20.50	PASS
100	5500	22.09	20.94	20.36	20.02	PASS
116	5580	22.07	21.68	20.38	20.40	PASS
140	5700	22.07	21.69	20.43	20.30	PASS



802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)				PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	CHAIN 3	
36	5180	21.47	21.39	21.96	22.49	PASS
40	5200	22.13	22.12	21.98	22.26	PASS
48	5240	21.52	21.93	21.76	21.99	PASS
52	5260	24.18	22.30	26.67	21.95	PASS
60	5300	26.49	22.47	24.63	24.18	PASS
64	5320	26.47	22.84	25.83	24.20	PASS
100	5500	25.30	22.00	27.75	21.80	PASS
116	5580	24.22	22.73	21.83	24.19	PASS
140	5700	24.18	23.11	25.73	23.09	PASS

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)				PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	CHAIN 3	
38	5190	43.40	44.06	43.34	43.68	PASS
46	5230	43.39	43.89	42.92	43.77	PASS
54	5270	50.56	69.62	68.22	51.33	PASS
62	5310	44.57	44.86	44.36	44.58	PASS
102	5510	44.50	44.66	44.13	44.60	PASS
110	5550	46.25	51.09	50.04	50.26	PASS
134	5670	51.65	59.74	50.27	50.82	PASS

EUT MAXIMUM CONDUCTED POWER

802.11a

FREQUENCY BAND (MHz)	MAX. POWER		MIN. POWER	
	OUTPUT POWER(dBm)	OUTPUT POWER(mW)	OUTPUT POWER(dBm)	OUTPUT POWER(mW)
5250~5350	23.60	229.201	17.60	57.544
5470~5725	23.63	230.539	17.63	57.943

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

802.11n (20MHz)

FREQUENCY BAND (MHz)	MAX. POWER		MIN. POWER	
	OUTPUT POWER(dBm)	OUTPUT POWER(mW)	OUTPUT POWER(dBm)	OUTPUT POWER(mW)
5250~5350	23.42	219.992	17.42	55.208
5470~5725	23.55	226.361	17.55	56.885

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

802.11n (40MHz)

FREQUENCY BAND (MHz)	MAX. POWER		MIN. POWER	
	OUTPUT POWER(dBm)	OUTPUT POWER(mW)	OUTPUT POWER(dBm)	OUTPUT POWER(mW)
5250~5350	23.09	203.750	17.09	51.168
5470~5725	23.85	242.572	17.85	60.954

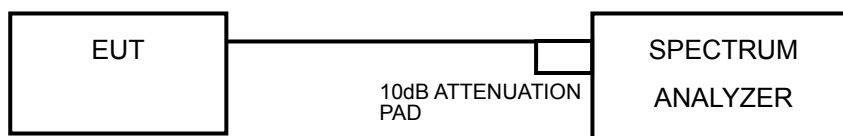
NOTE: Manufacturer provides Transmit Power Control description to meet this requirement.

4.4 PEAK POWER SPECTRAL DENSITY MEASUREMENT

4.4.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT

FREQUENCY BAND	LIMIT
5.150 ~ 5.250GHz	4dBm
5.250 ~ 5.350GHz	11dBm
5.470 ~ 5.725GHz	11dBm

4.4.2 TEST SETUP



4.4.3 TEST INSTRUMENTS

Refer to section 4.1.3 to get information of above instrument.

4.4.4 TEST PROCEDURES

Using method SA-1

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 30 KHz, Set VBW \geq 1 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

4.4.5 DEVIATION FROM TEST STANDARD

No deviation.

4.4.6 EUT OPERATING CONDITIONS

Same as 4.3.6.

4.4.7 TEST RESULTS

802.11a

CHAN.	CHAN. FREQ. (MHz)	PSD (dBm)				TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	CHAIN 3			
36	5180	-2.59	-2.37	-1.66	-2.62	3.73	4	PASS
40	5200	-2.67	-2.52	-1.97	-2.32	3.66	4	PASS
48	5240	-2.61	-2.42	-1.57	-3.01	3.65	4	PASS
52	5260	4.06	4.06	4.37	4.15	10.18	11	PASS
60	5300	3.86	4.39	4.09	3.51	9.99	11	PASS
64	5320	4.01	4.04	4.54	3.70	10.10	11	PASS
100	5500	4.26	4.04	4.42	3.69	10.13	11	PASS
116	5580	3.95	4.05	4.31	3.83	10.06	11	PASS
140	5700	4.07	3.66	3.68	3.39	9.73	11	PASS

NOTE: 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.

802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	PSD (dBm)				TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	CHAIN 3			
36	5180	-2.07	-2.33	-1.49	-2.49	3.94	4	PASS
40	5200	-2.30	-2.36	-1.39	-2.28	3.96	4	PASS
48	5240	-2.22	-2.19	-1.50	-2.85	3.86	4	PASS
52	5260	4.43	4.37	4.39	3.62	10.24	11	PASS
60	5300	4.38	4.22	4.41	3.63	10.19	11	PASS
64	5320	4.40	4.31	4.64	3.69	10.29	11	PASS
100	5500	4.31	4.29	4.46	3.77	10.24	11	PASS
116	5580	4.03	3.85	4.23	4.00	10.05	11	PASS
140	5700	3.90	3.86	3.73	3.15	9.69	11	PASS

NOTE: 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.



802.11n (40MHz)

CHAN.	CHAN. FREQ. (MHz)	PSD (dBm)				TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	CHAIN 3			
38	5190	-5.74	-6.13	-5.28	-5.84	0.28	4	PASS
46	5230	-6.01	-6.27	-4.88	-5.61	0.36	4	PASS
54	5270	0.12	0.60	0.69	0.35	6.47	11	PASS
62	5310	-2.27	-1.98	-1.77	-1.99	4.02	11	PASS
102	5510	-2.52	-2.28	-2.31	-2.27	3.68	11	PASS
110	5550	0.32	0.60	0.60	0.25	6.47	11	PASS
134	5670	-0.02	-0.25	-0.18	-0.60	5.76	11	PASS

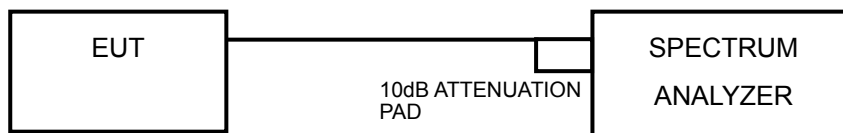
NOTE: Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

4.5 PEAK POWER EXCURSION MEASUREMENT

4.5.1 LIMITS OF PEAK POWER EXCURSION MEASUREMENT

Shall not exceed 13 dB.

4.5.2 TEST SETUP



4.5.3 TEST INSTRUMENTS

Refer to section 4.1.3 to get information of above instrument.

4.5.4 TEST PROCEDURE

- 1) Set RBW = 1 MHz, VBW \geq 3 MHz, Detector = peak.
- 2) Trace mode = max-hold. Allow the sweeps to continue until the trace stabilizes.
- 3) Use the peak search function to find the peak of the spectrum.
- 4) Measure the PPSD.
- 5) Compute the ratio of the maximum of the peak-max-hold spectrum to the PPSD.

4.5.5 DEVIATION FROM TEST STANDARD

No deviation.

4.5.6 EUT OPERATING CONDITIONS

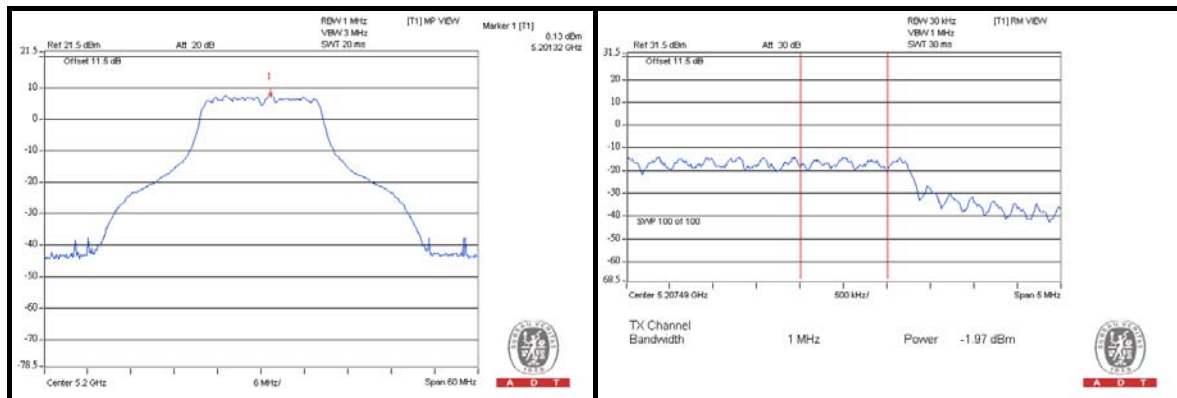
Same as 4.2.6



4.5.7 TEST RESULTS

802.11a

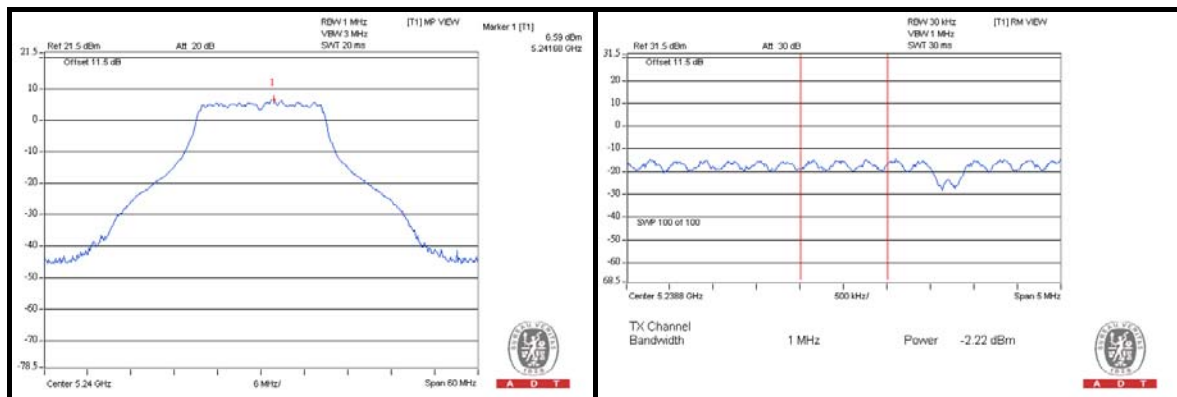
CHAN.	CHAN. FREQ. (MHz)	PEAK VALUE (dBm)				PPSD (dBm)				PEAK EXCURSION (dB)				LIMIT (dB)	PASS /FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	CHAIN 3	CHAIN 0	CHAIN 1	CHAIN 2	CHAIN 3	CHAIN 0	CHAIN 1	CHAIN 2	CHAIN 3		
36	5180	6.22	7.17	8.10	6.97	-2.59	-2.37	-1.66	-2.62	8.81	9.54	9.76	9.59	13	PASS
40	5200	5.90	7.05	8.13	7.02	-2.67	-2.52	-1.97	-2.32	8.57	9.57	10.10	9.34	13	PASS
48	5240	6.12	7.16	8.09	6.31	-2.61	-2.42	-1.57	-3.01	8.73	9.58	9.66	9.32	13	PASS
52	5260	12.99	13.55	13.72	12.98	4.06	4.06	4.37	4.15	8.93	9.49	9.35	8.83	13	PASS
60	5300	12.61	13.51	13.50	12.65	3.86	4.39	4.09	3.51	8.75	9.12	9.41	9.14	13	PASS
64	5320	12.65	13.37	13.70	12.68	4.01	4.04	4.54	3.70	8.64	9.33	9.16	8.98	13	PASS
100	5500	12.83	13.51	13.48	12.66	4.26	4.04	4.42	3.69	8.57	9.47	9.06	8.97	13	PASS
116	5580	12.57	13.20	13.45	12.69	3.95	4.05	4.31	3.83	8.62	9.15	9.14	8.86	13	PASS
140	5700	12.64	13.03	12.86	12.22	4.07	3.66	3.68	3.39	8.57	9.37	9.18	8.83	13	PASS





802.11n (20MHz)

CHAN.	CHAN. FREQ. (MHz)	PEAK VALUE (dBm)				PPSD (dBm)				PEAK EXCURSION (dB)				LIMIT (dB)	PASS /FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	CHAIN 3	CHAIN 0	CHAIN 1	CHAIN 2	CHAIN 3	CHAIN 0	CHAIN 1	CHAIN 2	CHAIN 3		
36	5180	6.45	6.08	6.65	5.74	-2.07	-2.33	-1.49	-2.49	8.52	8.41	8.14	8.23	13	PASS
40	5200	6.24	6.28	6.49	6.00	-2.30	-2.36	-1.39	-2.28	8.54	8.64	7.88	8.28	13	PASS
48	5240	6.59	6.40	6.44	5.38	-2.22	-2.19	-1.50	-2.85	8.81	8.59	7.94	8.23	13	PASS
52	5260	13.00	12.97	13.02	11.85	4.43	4.37	4.39	3.62	8.57	8.60	8.63	8.23	13	PASS
60	5300	12.88	12.71	12.47	11.75	4.38	4.22	4.41	3.63	8.50	8.49	8.06	8.12	13	PASS
64	5320	12.95	12.80	12.54	11.70	4.40	4.31	4.64	3.69	8.55	8.49	7.90	8.01	13	PASS
100	5500	12.71	12.85	12.34	11.82	4.31	4.29	4.46	3.77	8.40	8.56	7.88	8.05	13	PASS
116	5580	12.14	12.38	11.88	11.82	4.03	3.85	4.23	4.00	8.11	8.53	7.65	7.82	13	PASS
140	5700	12.40	12.61	11.62	11.16	3.90	3.86	3.73	3.15	8.50	8.75	7.89	8.01	13	PASS

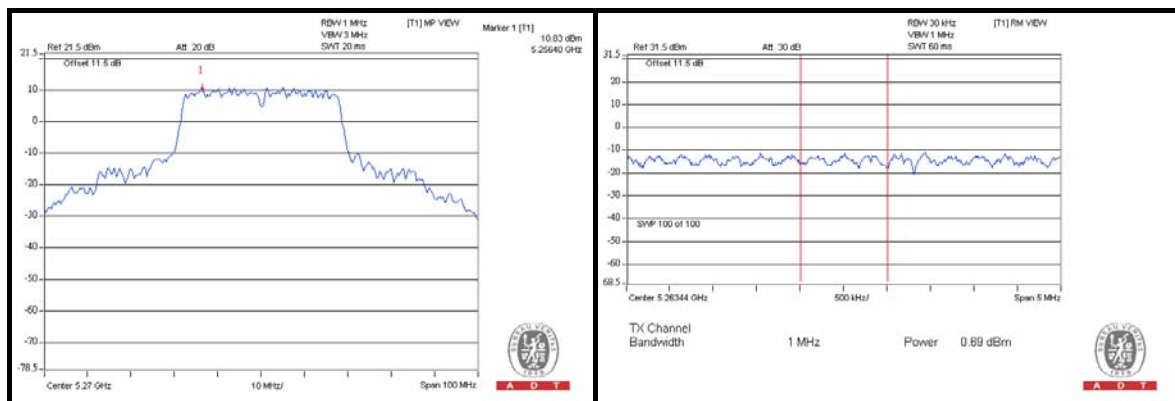




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802.11n (40MHz)

CHAN.	CHAN. FREQ. (MHz)	PEAK VALUE (dBm)				PPSD (dBm)				PEAK EXCURSION (dB)				LIMIT (dB)	PASS /FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	CHAIN 3	CHAIN 0	CHAIN 1	CHAIN 2	CHAIN 3	CHAIN 0	CHAIN 1	CHAIN 2	CHAIN 3		
38	5190	3.47	3.05	4.76	3.32	-5.74	-6.13	-5.28	-5.84	9.21	9.18	10.04	9.16	13	PASS
46	5230	3.44	3.05	5.15	3.49	-6.01	-6.27	-4.88	-5.61	9.45	9.32	10.03	9.10	13	PASS
54	5270	9.79	9.65	10.83	9.55	0.12	0.60	0.69	0.35	9.67	9.05	10.14	9.20	13	PASS
62	5310	7.23	7.16	8.18	6.85	-2.27	-1.98	-1.77	-1.99	9.50	9.14	9.95	8.84	13	PASS
102	5510	7.09	6.72	7.78	6.78	-2.52	-2.28	-2.31	-2.27	9.61	9.00	10.09	9.05	13	PASS
110	5550	9.99	9.66	10.36	9.28	0.32	0.60	0.60	0.25	9.67	9.06	9.76	9.03	13	PASS
134	5670	9.30	8.83	9.72	8.82	-0.02	-0.25	-0.18	-0.60	9.32	9.08	9.90	9.42	13	PASS

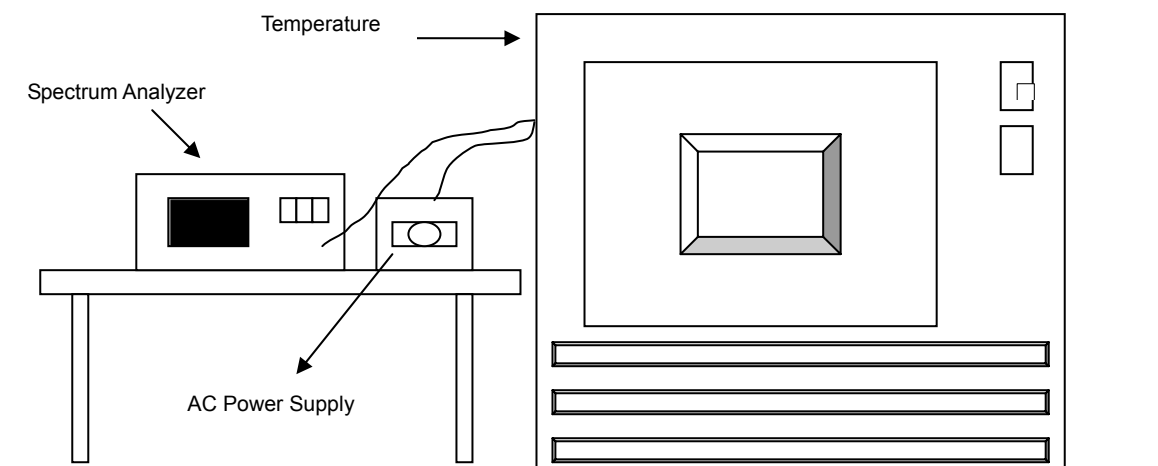


4.6 FREQUENCY STABILITY

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

Refer to section 4.1.3 to get information of above instrument.

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: 5320MHz									
TEMP. (°C)	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 (%)
55	120	5700.0246	0.0004	5699.9948	-0.0001	5700.0269	0.0005	5699.9969	-0.0001
50	120	5700.0036	0.0001	5699.9941	-0.0001	5700.0005	0.0000	5699.9974	0.0000
40	120	5699.9874	-0.0002	5699.9943	-0.0001	5699.9909	-0.0002	5699.9878	-0.0002
30	120	5700.0104	0.0002	5700.0125	0.0002	5700.0138	0.0002	5700.0151	0.0003
20	120	5699.9949	-0.0001	5699.9943	-0.0001	5699.9932	-0.0001	5699.9888	-0.0002
10	120	5699.984	-0.0003	5699.9842	-0.0003	5699.9801	-0.0003	5699.9822	-0.0003
0	120	5699.9814	-0.0003	5699.9899	-0.0002	5699.9905	-0.0002	5699.9812	-0.0003
-10	120	5700.0019	0.0000	5700.0054	0.0001	5700.0075	0.0001	5700.0014	0.0000
-20	120	5700.0003	0.0000	5700.0036	0.0001	5700.0067	0.0001	5700.0055	0.0001

FREQUENCY STABILITY VERSUS VOLTAGE									
OPERATING FREQUENCY: 5320MHz									
TEMP. (°C)	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	5699.9942	-0.0001	5699.9932	-0.0001	5699.9913	-0.0002	5699.9881	-0.0002
	120	5699.9949	-0.0001	5699.9943	-0.0001	5699.9932	-0.0001	5699.9888	-0.0002
	102	5699.9932	-0.0001	5699.9938	-0.0001	5699.9923	-0.0001	5699.9881	-0.0002

5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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



6. INFORMATION ON THE TESTING LABORATORIES

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

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

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

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

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

---END---