

FCC TEST REPORT (15.407)

REPORT NO.: RF130725E04A-1

MODEL NO.: MR34-HW

FCC ID: UDX-60025010

RECEIVED: Aug. 01, 2013

TESTED: Aug. 01 to Sep. 27, 2013

ISSUED: Oct. 02, 2013

APPLICANT: Cisco Systems, Inc.

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RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|-------------------|--|---------------|
| RF130725E04A-1 | Original release | Aug. 27, 2013 |
| RF130725E04A-1 R1 | Modified the description on section 3.4, section 4.1, section 4.2 and section 4.4. | Oct. 02, 2013 |

1. CERTIFICATION

PRODUCT: Cisco Meraki MR34
BRAND NAME: Cisco
MODEL NO.: MR34-HW
TEST SAMPLE: R&D SAMPLE
APPLICANT: Cisco Systems, Inc.
TESTED: Aug. 01 to Sep. 27, 2013
STANDARDS: FCC Part 15, Subpart E (Section 15.407)
ANSI C63.10-2009

The above equipment (Model: MR34-HW) 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 : Phoenix Huang , **DATE:** Oct. 02, 2013
(Phoenix Huang, Specialist)

APPROVED BY : May Chen , **DATE:** Oct. 02, 2013
(May Chen, Manager)



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2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

For 5GHz, 5260~5320MHz, 5500~5580MHz & 5660~5700MHz

| 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 -6.25dB at 0.49800MHz |
| 15.407(b/1/2/3) (b)(5) | Spurious Emissions | PASS | Meet the requirement of limit. Minimum passing margin is -0.1dB at 5350.00MHz |
| 15.407(a/1/2/3) | Transmit Power | PASS | Meet the requirement of limit. |
| 15.407(a)(6) | Peak Power Excursion | PASS | Meet the requirement of limit. |
| 15.407(a/1/2/3) | 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 IPEX not a standard connector. |

NOTE:

1. This report is prepared for FCC class II change. (Add DFS band: 5250~5350MHz & 5470~5725MHz).
2. The DFS report was recorded in another test report.

2.1 MEASUREMENT UNCERTAINTY

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

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

| Measurement | Value |
|---|---------|
| Conducted emissions | 2.98 dB |
| Radiated emissions (30MHz-1GHz) for channel 116 | 5.46 dB |
| Radiated emissions (30MHz-1GHz) for channel 100 & 140 | 5.63 dB |
| Radiated emissions (1GHz -6GHz) | 3.54 dB |
| Radiated emissions (6GHz -18GHz) | 4.08 dB |
| Radiated emissions (18GHz -40GHz) | 4.11 dB |

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

| | |
|------------------------------|--|
| PRODUCT | Cisco Meraki MR34 |
| MODEL NO. | MR34-HW |
| POWER SUPPLY | DC 12V from power adapter, DC 37~57V _{dc} , 0.5~0.3A from POE |
| MODULATION TYPE | 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode only. |
| MODULATION TECHNOLOGY | OFDM |
| TRANSFER RATE | 802.11a: up to 54Mbps 802.11n: up to 450Mbps 802.11ac: up to 1300Mbps |
| OPERATING FREQUENCY | 5.26 ~ 5.32GHz, 5.50 ~ 5.58GHz & 5.66GHz ~ 5.70GHz |
| NUMBER OF CHANNEL | 12 for 802.11a, 802.11n (HT20), 802.11ac (VHT20) 5 for 802.11n (HT40), 802.11ac (VHT40) 2 for 802.11ac (VHT80) |
| MAXIMUM OUTPUT POWER | Please see NOTE |
| ANTENNA TYPE | Please see NOTE |
| DATA CABLE | NA |
| I/O PORTS | Refer to user's manual |
| ASSOCIATED DEVICES | Adapter x1 |

NOTE:

1. This report is prepared for FCC class II permissive change. The difference compared with the original report design is as the following information:

u Add DFS band <5250~5350MHz & 5470~5725MHz>

2. The maximum output power table as below table:

| MAXIMUM OUTPUT POWER (mW) | | | |
|---------------------------|--------|------------------|---------|
| Radio Card 1 | | Radio Card 0 | |
| 15.407 | | 15.407 | |
| 802.11a | 49.545 | 802.11a | 112.036 |
| 802.11n (HT20) | 49.774 | 802.11n (HT20) | 194.327 |
| 802.11n (HT40) | 37.497 | 802.11n (HT40) | 194.069 |
| | | 802.11ac (VHT80) | 188.917 |

3. The EUT is a 2.4GHz & 5GHz WLAN device.

4. The EUT must be supplied with a adapter or POE (only for test not for sale) as below information:

| Adapter | | |
|---|-------------|--|
| Brand | Model No. | Spec. |
| Powertron Electronics Corp. | PA1015-2HU | AC Input : 100-240V, 0.4A, 50-60Hz DC Output : 12V, 1.5A DC output cable(unshielded ,1.6m) |
| POE(only for test not for sale) | | |
| Brand | Model No. | Spec. |
| Power Dsine | PD-9501G/AC | AC Input : 100-240V, 1.5A, 50-60Hz DC Output : 55V, 1.35A |
| For the original test report: the radiated emission: From above power sources, the worst case was found in Adapter (Model: PA1015-2HU). Therefore only the test data of the mode was recorded in this report. | | |

5. The three radio cards and antennas provided to the EUT, please refer to the following table:

| Radio Card 0 (Single band 3Tx) | | | | | |
|---------------------------------------|-------------------------------------|--------------|----------------|---------------------------------|----------------------|
| Transmitter Circuit | Gain (dBi) (Include cable loss) | Antenna Type | Connector Type | Frequency range (MHz to MHz) | Cable Length (mm) |
| Chain (0) | 5.6 | PIFA | IPEX | 5150~5850 | 185 |
| Chain (1) | 5.5 | PIFA | IPEX | 5150~5850 | 270 |
| Chain (2) | 5.2 | PIFA | IPEX | 5150~5850 | 75 |
| Radio Card 1 (Dual band 1Tx) | | | | | |
| Transmitter Circuit | Gain (dBi) (Include cable loss) | Antenna Type | Connector Type | Frequency range (MHz to MHz) | Cable Length (mm) |
| Chain (0) | 4.3 | PIFA | IPEX | 2400~2500 | 95 |
| | 5.4 | PIFA | IPEX | 5150~5850 | 95 |
| Radio Card 2 (Single band 3Tx) | | | | | |
| Transmitter Circuit | Gain (dBi) (Include cable loss) | Antenna Type | Connector Type | Frequency range (MHz to MHz) | Cable Length (mm) |
| Chain (0) | 4.8 | PIFA | IPEX | 2400~2500 | 45 |
| Chain (1) | 2 | PIFA | IPEX | 2400~2500 | 195 |
| Chain (2) | 2.3 | PIFA | IPEX | 2400~2500 | 165 |

6. The EUT incorporates a MIMO function without beam forming.

| MODULATION MODE | RADIO CARD | TX/RX FUNCTION |
|---|------------|---|
| 802.11b 802.11g 802.11n (HT20) <2.4GHz> 802.11n (HT40) <2.4GHz> | Card 1 | 1Tx/1Rx |
| | Card 2 | 1Tx/1Rx (Diversity) 2Tx/2Rx (Diversity) 3Tx/3Rx |
| 802.11a 802.11n (HT20) <5GHz> 802.11n (HT40) <5GHz> | Card 1 | 1Tx/1Rx |
| 802.11a 802.11n (HT20) <5GHz> 802.11n (HT40) <5GHz> 802.11ac (VHT20) 802.11ac (VHT40) 802.11ac (VHT80) | Card 0 | 1Tx/1Rx (Diversity) 2Tx/2Rx (Diversity) 3Tx/3Rx |

Note: The modulation and bandwidth are similar for 802.11n mode for 20MHz (40MHz) and 802.11ac mode for 20MHz (40MHz), therefore investigated worst case to representative mode in test report. (Final test mode refer section 3.2.1)



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7. When the EUT operating in 802.11n, the software operation, which is defined by manufacturer, MCS (Modulation and Coding Schemes) from 0 to 23.
8. When the EUT operating in 802.11ac, the software operation, which is defined by manufacturer, MCS (Modulation and Coding Schemes) from 0 to 9.
9. The above EUT information was declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 DESCRIPTION OF TEST MODES

Operated in 5260 ~ 5320MHz band:

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

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

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

| CHANNEL | FREQUENCY |
|---------|-----------|
| 54 | 5270 MHz |
| 62 | 5310 MHz |

1 channel is provided for 802.11ac (VHT80):

| CHANNEL | FREQUENCY |
|---------|-----------|
| 58 | 5290 MHz |

Operated in 5470MHz ~ 5600MHz & 5650MHz ~ 5725MHz bands:

8 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

| 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), 802.11ac (VHT40):

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

1 channel is provided for 802.11ac (VHT80):

| CHANNEL | FREQUENCY |
|---------|-----------|
| 106 | 5530 MHz |

3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

| EUT CONFIGURE MODE | APPLICABLE TO | | | | DESCRIPTION |
|--------------------|---------------|---------|---------|------|----------------------------------|
| | PLC | RE < 1G | RE ≥ 1G | APCM | |
| 1 | √ | √ | √ | √ | Radio Card 1 <5GHz> with Adapter |
| 2 | √ | √ | √ | √ | Radio Card 0 <5GHz> with Adapter |
| 3 | √ | - | - | - | Radio Card 1 <5GHz> with POE |
| 4 | √ | - | - | - | Radio Card 0 <5GHz> with POE |

Where **PLC**: Power Line Conducted Emission

RE < 1G: Radiated Emission below 1GHz

RE ≥ 1G: Radiated Emission above 1GHz

APCM: Antenna Port Conducted Measurement

Note: For the original test report: the EUT had been pre-tested on the positioned of each 2 axis. The worst case was found when positioned on **X-plane** (for below 1GHz) and **Z-plane** (for above 1GHz).

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.

| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
|----------------------------------|-------------------|----------------|-----------------------|-----------------|------------------|
| 802.11n (HT20) (Radio Card 1) | 52 to 140 | 100, 116, 140 | OFDM | BPSK | 6.5 |
| 802.11n (HT20) (Radio Card 0) | 52 to 140 | 100, 116, 140 | OFDM | BPSK | 19.5 |

RADIATED EMISSION TEST (BELOW 1 GHz):

- ☒ 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.

| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
|----------------------------------|-------------------|----------------|-----------------------|-----------------|------------------|
| 802.11n (HT20) (Radio Card 1) | 52 to 140 | 100, 116, 140 | OFDM | BPSK | 6.5 |
| 802.11n (HT20) (Radio Card 0) | 52 to 140 | 100, 116, 140 | OFDM | BPSK | 19.5 |

RADIATED EMISSION TEST (ABOVE 1 GHz):

- ☒ 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.

| Radio Card 1 <5GHz> | | | | | |
|---|-------------------|--------------------------------|-----------------------|-----------------|------------------|
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
| 802.11a | 52 to 140 | 52, 60, 64, 100, 116, 132, 140 | OFDM | BPSK | 6 |
| 802.11n (HT20) | 52 to 140 | 52, 60, 64, 100, 116, 132, 140 | OFDM | BPSK | 6.5 |
| 802.11n (HT40) | 54 to 134 | 54, 62, 102, 110, 134 | OFDM | BPSK | 13.5 |
| Radio Card 0 <5GHz> | | | | | |
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
| 802.11a | 52 to 140 | 52, 60, 64, 100, 116, 132, 140 | OFDM | BPSK | 6 |
| 802.11n (HT20) | 52 to 140 | 52, 60, 64, 100, 116, 132, 140 | OFDM | BPSK | 19.5 |
| 802.11n (HT40) | 54 to 134 | 54, 62, 102, 110, 134 | OFDM | BPSK | 40.5 |
| 802.11ac (VHT80) (Only Radio Card 0) | 58 to 106 | 58, 106 | OFDM | BPSK | 87.5 |

ANTENNA PORT CONDUCTED MEASUREMENT:

- ☒ 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.

| Radio Card 1 <5GHz> | | | | | |
|---|-------------------|--------------------------------|-----------------------|-----------------|------------------|
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
| 802.11a | 52 to 140 | 52, 60, 64, 100, 116, 132, 140 | OFDM | BPSK | 6 |
| 802.11n (HT20) | 52 to 140 | 52, 60, 64, 100, 116, 132, 140 | OFDM | BPSK | 6.5 |
| 802.11n (HT40) | 54 to 134 | 54, 62, 102, 110, 134 | OFDM | BPSK | 13.5 |
| Radio Card 0 <5GHz> | | | | | |
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
| 802.11a | 52 to 140 | 52, 60, 64, 100, 116, 132, 140 | OFDM | BPSK | 6 |
| 802.11n (HT20) | 52 to 140 | 52, 60, 64, 100, 116, 132, 140 | OFDM | BPSK | 19.5 |
| 802.11n (HT40) | 54 to 134 | 54, 62, 102, 110, 134 | OFDM | BPSK | 40.5 |
| 802.11ac (VHT80) (Only Radio Card 0) | 58 to 106 | 58, 106 | OFDM | BPSK | 87.5 |

TEST CONDITION:

| APPLICABLE TO | ENVIRONMENTAL CONDITIONS | INPUT POWER | TESTED BY |
|--------------------|--------------------------|--------------|--------------|
| PLC | 26deg. C, 66%RH | 120Vac, 60Hz | JyunChun Lin |
| | 25deg. C, 50%RH | 120Vac, 60Hz | Scott Chen |
| | 26deg. C, 60%RH | 120Vac, 60Hz | Barry Lee |
| RE<1G | 25deg. C, 65%RH | 120Vac, 60Hz | Nelson Teng |
| | 25deg. C, 65%RH | 120Vac, 60Hz | Chilin Lee |
| RE ³ 1G | 23deg. C, 70%RH | 120Vac, 60Hz | Tim Ho |
| APCM | 25deg. C, 60%RH | 120Vac, 60Hz | James Chan |
| | 25deg. C, 60%RH | 120Vac, 60Hz | Robert Cheng |
| | 25deg. C, 60%RH | 120Vac, 60Hz | Chilin Lee |



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3.3 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 r03

662911 D01 Multiple Transmitter Output v01 r02

ANSI C63.10-2009

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.

3.4 DUTY CYCLE OF TEST SIGNAL

If duty cycle of test signal is > 98 %, duty factor is not required.

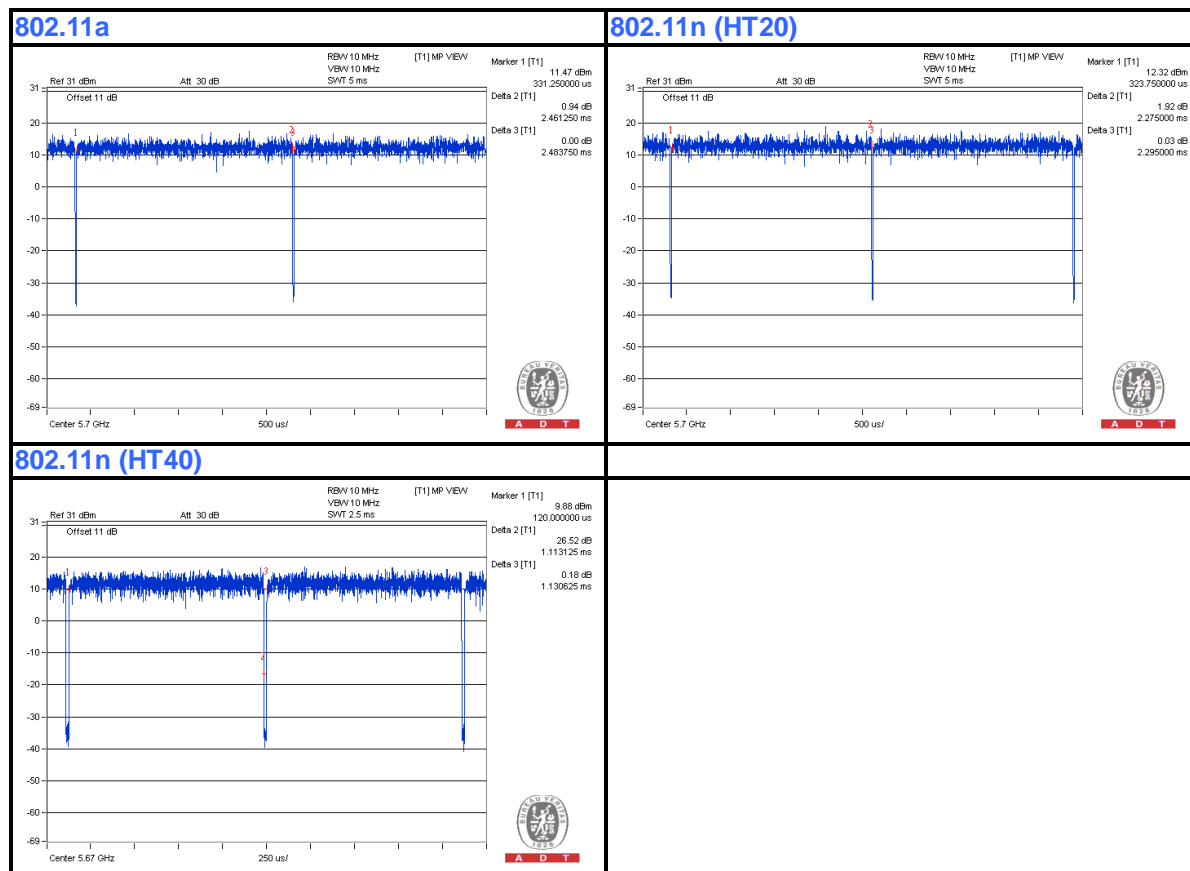
If duty cycle of test signal is < 98%, duty factor shall be considered.

Radio Card 1 (5G)

802.11a: Duty cycle = 2.461 ms/2.484 ms = 0.991

802.11n (HT20): Duty cycle = 2.275 ms/2.295 ms = 0.991

802.11n (HT40): Duty cycle = 1.113 ms/1.131 ms = 0.984





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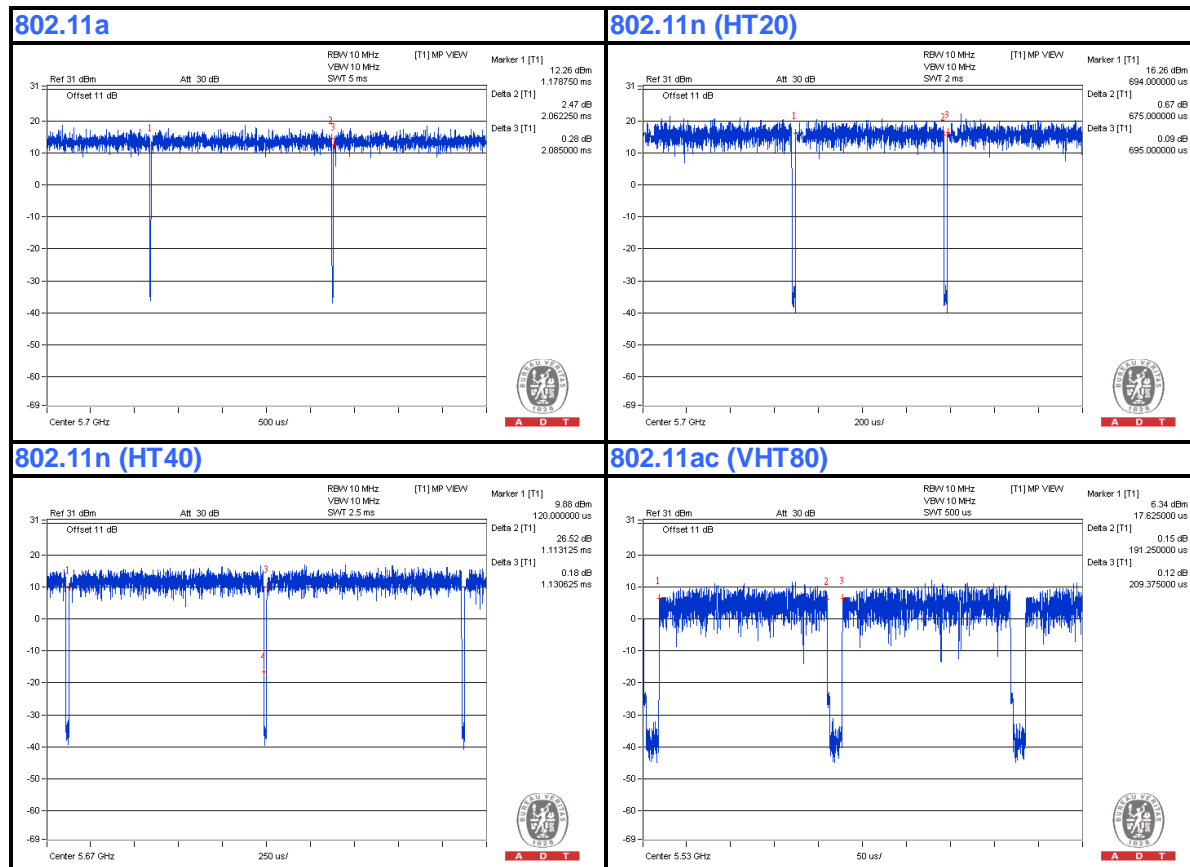
Radio Card 0

802.11a: Duty cycle = 2.062 ms/2.085 ms = 0.989

802.11n (HT20): Duty cycle = 0.675 ms/0.695 ms = 0.971, Duty factor = $10 * \log(1/0.971) = 0.13$

802.11n (HT40): Duty cycle = 0.353 ms/0.369 ms = 0.957, Duty factor = $10 * \log(1/0.957) = 0.19$

802.11ac (VHT80): Duty cycle = 0.191 ms/0.209 ms = 0.914, Duty factor = $10 * \log(1/0.914) = 0.39$





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3.5 DESCRIPTION OF SUPPORT UNITS

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

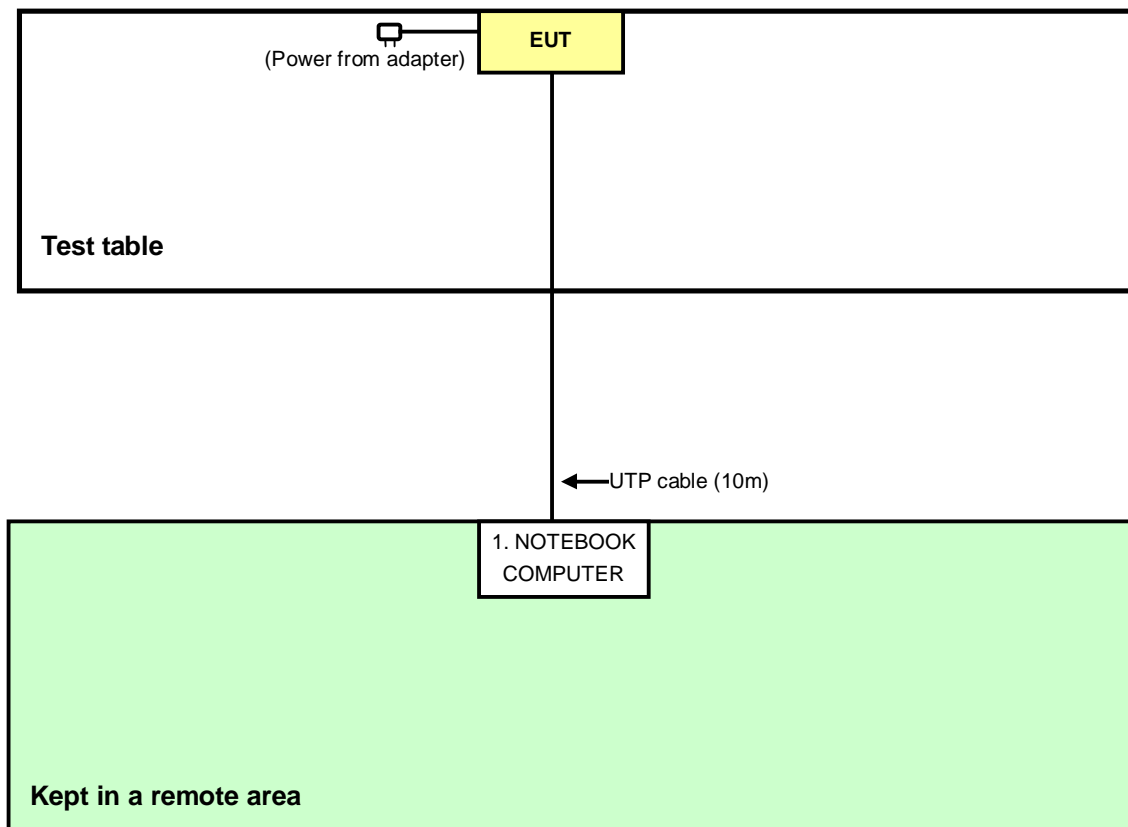
| NO. | PRODUCT | BRAND | MODEL NO. | SERIAL NO. | FCC ID |
|-----|-------------------|-------------|-------------|------------|---------|
| 1 | NOTEBOOK COMPUTER | DELL | PP32LA | FSLB32S | FCC DoC |
| 2 | POE | Power Dsine | PD-9501G/AC | NA | NA |

| NO. | SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS |
|-----|---|
| 1 | UTP cable, 10m |
| 2 | UTP cable, 10m |

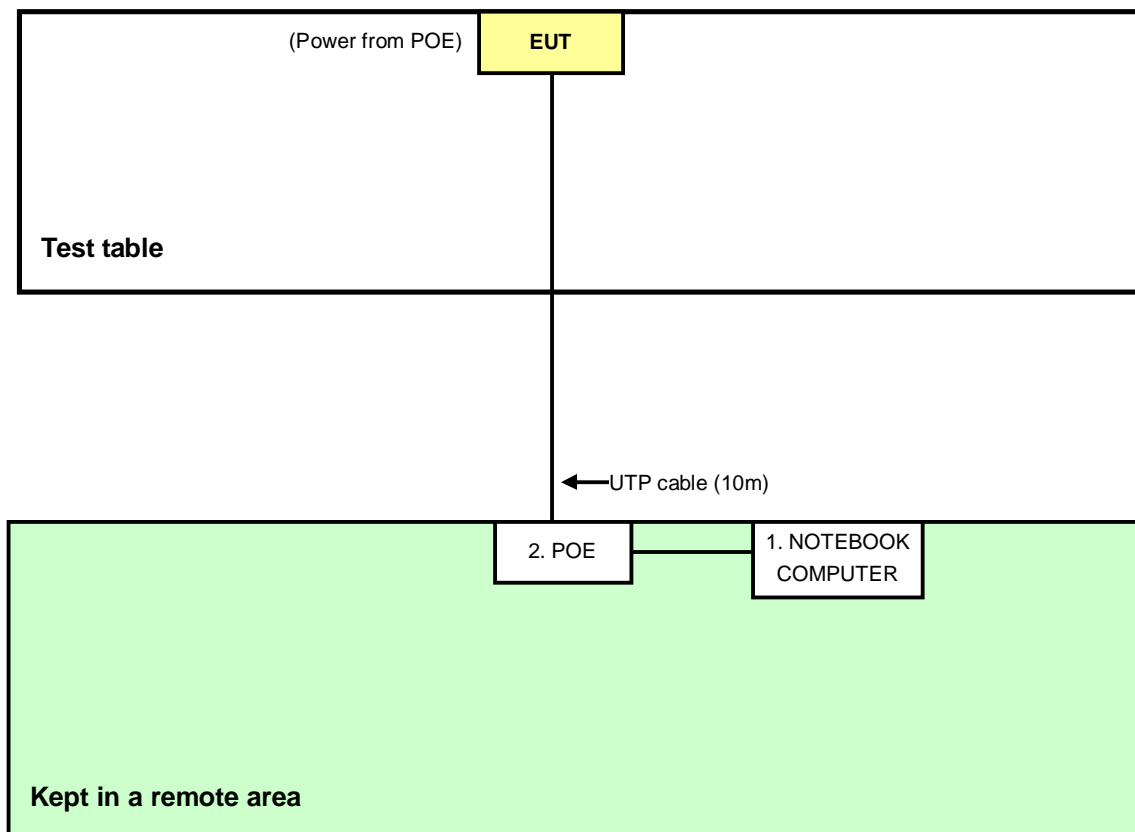
NOTE: All power cords of the above support units are non shielded (1.8m).

3.6 CONFIGURATION OF SYSTEM UNDER TEST

For Conducted Emission (Mode 1~2) / Radiated Emission test:



For Conducted Emission (Mode 3~4) test:



4. TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 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 0.50 MHz.

4.1.2 TEST INSTRUMENTS

For channel 116:

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|---|-----------------------------|------------|-----------------|------------------|
| Test Receiver ROHDE & SCHWARZ | ESCS 30 | 100375 | Mar. 08, 2013 | Mar. 07, 2014 |
| Line-Impedance Stabilization Network (for EUT) SCHWARZBECK | NSLK8127 | 8127-522 | Sep. 06, 2012 | Sep. 05, 2013 |
| Line-Impedance Stabilization Network (for Peripheral) | ENV216 | 100072 | June 07, 2013 | June 06, 2014 |
| RF Cable (JYEBAO) | 5DFB | COCCAB-001 | Mar. 11, 2013 | Mar. 10, 2014 |
| 50 ohms Terminator | 50 | EMC-3 | Sep. 25, 2012 | Sep. 24, 2013 |
| Software ADT | BV ADT_Cond_V7.3.7. 3 | NA | 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.
- The test was performed in Shielded Room No. C.
- The VCCI Con C Registration No. is C-3611.
- Tested Date: Aug. 02 to 05, 2013



A D T

For other test channel:

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|---|-----------------------------|------------|-----------------|------------------|
| Test Receiver ROHDE & SCHWARZ | ESCS 30 | 100375 | Mar. 08, 2013 | Mar. 07, 2014 |
| Line-Impedance Stabilization Network (for EUT) SCHWARZBECK | NSLK8127 | 8127-522 | Sep. 05, 2013 | Sep. 04, 2014 |
| Line-Impedance Stabilization Network (for Peripheral) | ENV216 | 100072 | June 06, 2013 | June 05, 2014 |
| RF Cable (JYBAO) | 5DFB | COCCAB-001 | Mar. 11, 2013 | Mar. 10, 2014 |
| 50 ohms Terminator | 50 | EMC-03 | Sep. 24, 2013 | Sep. 23, 2014 |
| 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 Shielded Room No. C.
3. The VCCI Con C Registration No. is C-3611.
4. Tested Date: Sep. 25 to 27, 2013

4.1.3 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.
- b. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- c. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- d. The frequency range from 150kHz to 30MHz was searched. Emission level under (Limit – 20dB) was not recorded.

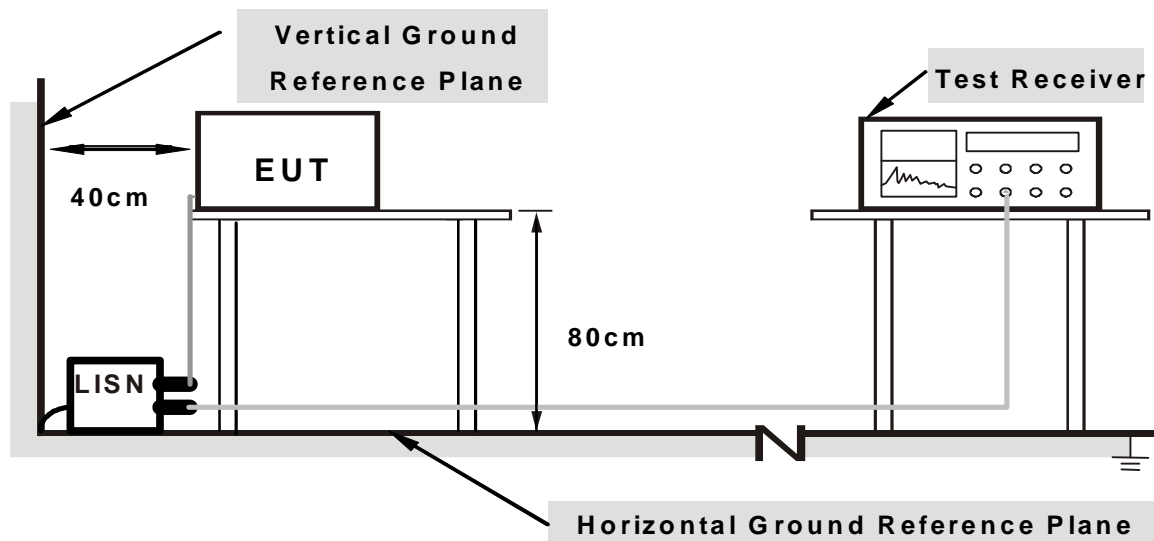
NOTE:

1. The resolution bandwidth of test receiver is 9kHz for Quasi-peak detection (QP) & Average detection (AV).

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



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

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.1.6 EUT OPERATING CONDITIONS

1. Turn on the power of EUT.
2. The communication partner run test program “MTool V1.0.0.10.exe” to enable EUT under transmission/receiving condition continuously at specific channel frequency.

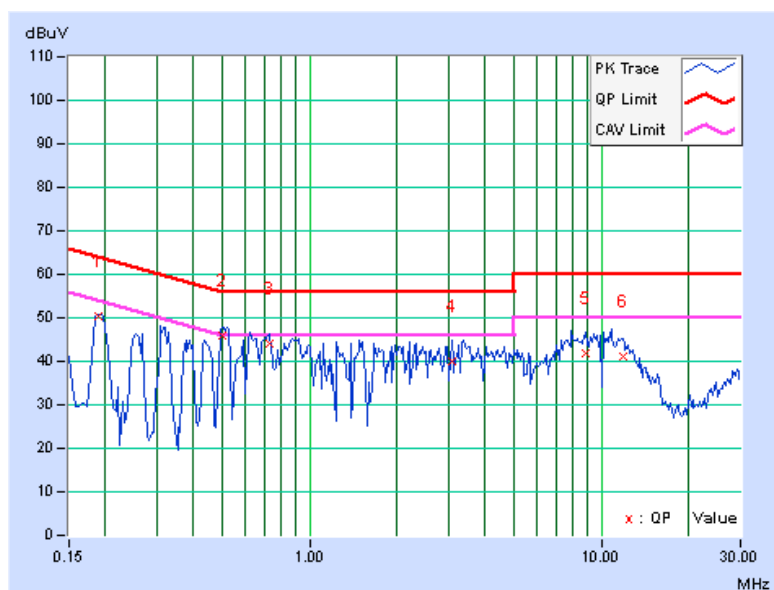
4.1.7 TEST RESULTS (MODE 1)

| CHANNEL | Channel 100 | | |
|---------|-------------|-------------------|--------------------------------|
| PHASE | Line (L) | DETECTOR FUNCTION | Quasi-Peak (QP) / Average (AV) |

| | Freq. | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------|--------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| No | | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.18906 | 0.15 | 50.38 | 38.27 | 50.53 | 38.42 | 64.08 | 54.08 | -13.55 | -15.66 |
| 2 | 0.50156 | 0.21 | 45.54 | 37.29 | 45.75 | 37.50 | 56.00 | 46.00 | -10.25 | -8.50 |
| 3 | 0.72813 | 0.23 | 43.66 | 31.36 | 43.89 | 31.59 | 56.00 | 46.00 | -12.11 | -14.41 |
| 4 | 3.06250 | 0.41 | 39.69 | 29.50 | 40.10 | 29.91 | 56.00 | 46.00 | -15.90 | -16.09 |
| 5 | 8.82031 | 0.82 | 41.21 | 33.03 | 42.03 | 33.85 | 60.00 | 50.00 | -17.97 | -16.15 |
| 6 | 11.82422 | 1.01 | 40.03 | 32.48 | 41.04 | 33.49 | 60.00 | 50.00 | -18.96 | -16.51 |

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

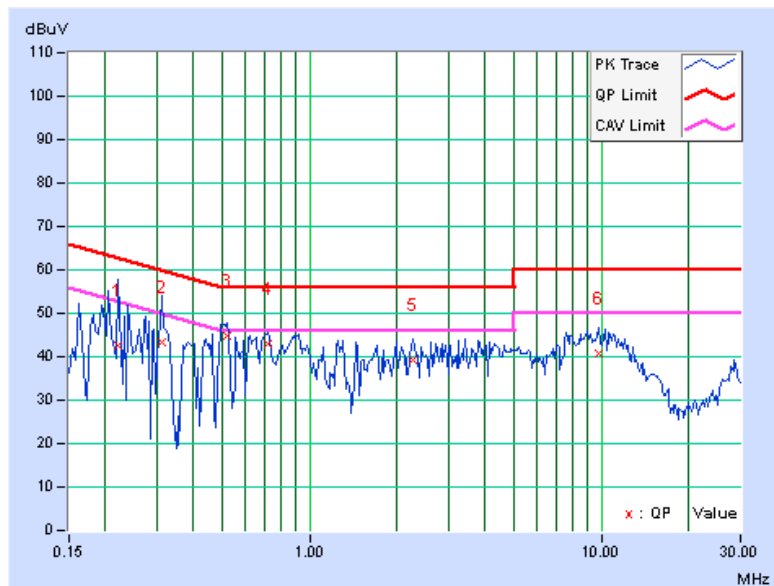


| | | | |
|---------|-------------|-------------------|--------------------------------|
| CHANNEL | Channel 100 | | |
| PHASE | Neutral (N) | DETECTOR FUNCTION | Quasi-Peak (QP) / Average (AV) |

| | Freq. | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|----|---------|--------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| No | | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.22031 | 0.14 | 42.38 | 14.07 | 42.52 | 14.21 | 62.81 | 52.81 | -20.29 | -38.60 |
| 2 | 0.31406 | 0.16 | 43.33 | 35.87 | 43.49 | 36.03 | 59.86 | 49.86 | -16.37 | -13.83 |
| 3 | 0.52500 | 0.20 | 44.50 | 35.44 | 44.70 | 35.64 | 56.00 | 46.00 | -11.30 | -10.36 |
| 4 | 0.72422 | 0.21 | 42.62 | 32.12 | 42.83 | 32.33 | 56.00 | 46.00 | -13.17 | -13.67 |
| 5 | 2.26953 | 0.32 | 39.01 | 27.64 | 39.33 | 27.96 | 56.00 | 46.00 | -16.67 | -18.04 |
| 6 | 9.77344 | 0.73 | 40.14 | 32.03 | 40.87 | 32.76 | 60.00 | 50.00 | -19.13 | -17.24 |

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

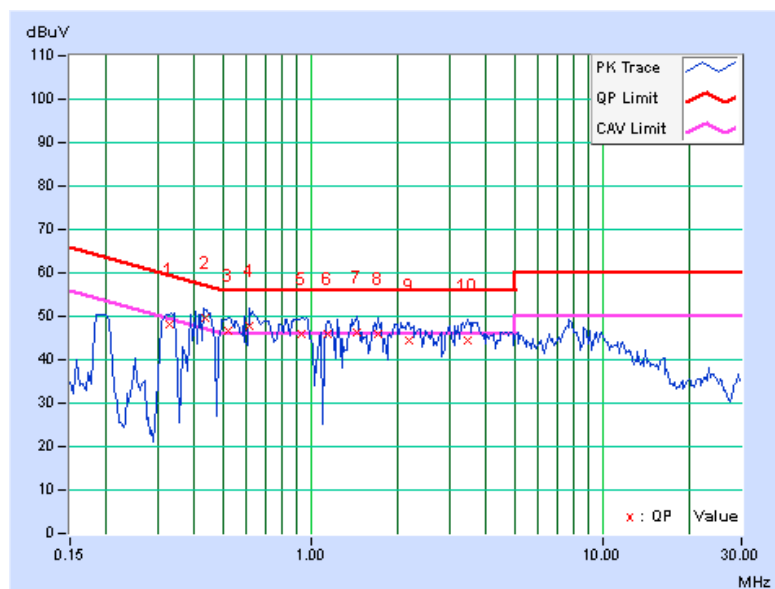


| | | | |
|---------|-------------|-------------------|--------------------------------|
| CHANNEL | Channel 116 | | |
| PHASE | Line (L) | DETECTOR FUNCTION | Quasi-Peak (QP) / Average (AV) |

| | Freq. | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|----|---------|--------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| No | | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.32659 | 0.18 | 48.15 | 39.80 | 48.33 | 39.98 | 59.54 | 49.54 | -11.21 | -9.56 |
| 2 | 0.43475 | 0.20 | 49.34 | 38.37 | 49.54 | 38.57 | 57.16 | 47.16 | -7.62 | -8.59 |
| 3 | 0.52109 | 0.21 | 46.39 | 35.89 | 46.60 | 36.10 | 56.00 | 46.00 | -9.40 | -9.90 |
| 4 | 0.61875 | 0.22 | 47.65 | 35.03 | 47.87 | 35.25 | 56.00 | 46.00 | -8.13 | -10.75 |
| 5 | 0.92734 | 0.24 | 45.84 | 34.48 | 46.08 | 34.72 | 56.00 | 46.00 | -9.92 | -11.28 |
| 6 | 1.14063 | 0.26 | 45.65 | 32.44 | 45.91 | 32.70 | 56.00 | 46.00 | -10.09 | -13.30 |
| 7 | 1.43750 | 0.29 | 46.07 | 34.47 | 46.36 | 34.76 | 56.00 | 46.00 | -9.64 | -11.24 |
| 8 | 1.70703 | 0.31 | 45.52 | 33.15 | 45.83 | 33.46 | 56.00 | 46.00 | -10.17 | -12.54 |
| 9 | 2.16797 | 0.35 | 44.14 | 32.77 | 44.49 | 33.12 | 56.00 | 46.00 | -11.51 | -12.88 |
| 10 | 3.43750 | 0.43 | 43.86 | 32.97 | 44.29 | 33.40 | 56.00 | 46.00 | -11.71 | -12.60 |

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

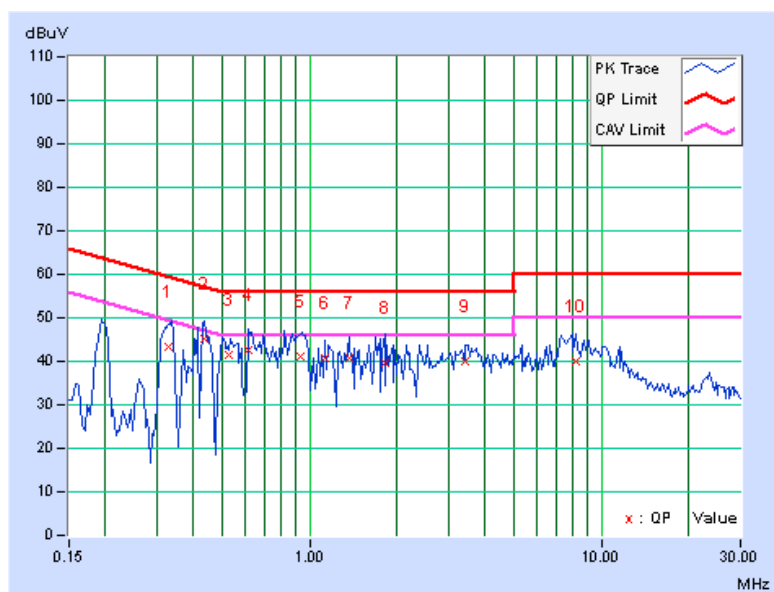


| | | | |
|---------|-------------|-------------------|--------------------------------|
| CHANNEL | Channel 116 | | |
| PHASE | Neutral (N) | DETECTOR FUNCTION | Quasi-Peak (QP) / Average (AV) |

| No | Freq. | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|----|---------|--------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.32825 | 0.17 | 43.28 | 33.45 | 43.45 | 33.62 | 59.50 | 49.50 | -16.05 | -15.88 |
| 2 | 0.43516 | 0.19 | 44.82 | 33.79 | 45.01 | 33.98 | 57.15 | 47.15 | -12.14 | -13.17 |
| 3 | 0.52622 | 0.20 | 41.21 | 28.88 | 41.41 | 29.08 | 56.00 | 46.00 | -14.59 | -16.92 |
| 4 | 0.61875 | 0.20 | 42.44 | 29.07 | 42.64 | 29.27 | 56.00 | 46.00 | -13.36 | -16.73 |
| 5 | 0.92734 | 0.22 | 40.91 | 29.22 | 41.13 | 29.44 | 56.00 | 46.00 | -14.87 | -16.56 |
| 6 | 1.12891 | 0.23 | 40.59 | 28.13 | 40.82 | 28.36 | 56.00 | 46.00 | -15.18 | -17.64 |
| 7 | 1.36719 | 0.25 | 40.51 | 28.01 | 40.76 | 28.26 | 56.00 | 46.00 | -15.24 | -17.74 |
| 8 | 1.80859 | 0.28 | 39.46 | 25.70 | 39.74 | 25.98 | 56.00 | 46.00 | -16.26 | -20.02 |
| 9 | 3.41797 | 0.39 | 39.58 | 28.43 | 39.97 | 28.82 | 56.00 | 46.00 | -16.03 | -17.18 |
| 10 | 8.16797 | 0.65 | 39.24 | 30.16 | 39.89 | 30.81 | 60.00 | 50.00 | -20.11 | -19.19 |

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

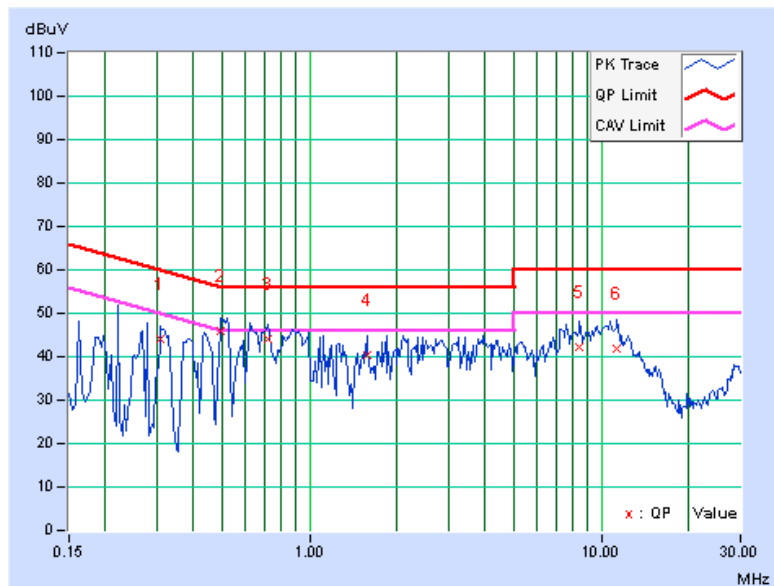


| | | | |
|---------|-------------|-------------------|--------------------------------|
| CHANNEL | Channel 140 | | |
| PHASE | Line (L) | DETECTOR FUNCTION | Quasi-Peak (QP) / Average (AV) |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|----|----------------|-------------------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|--------|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.31016 | 0.18 | 43.99 | 35.09 | 44.17 | 35.27 | 59.97 | 49.97 | -15.80 | -14.70 |
| 2 | 0.49766 | 0.21 | 45.88 | 35.78 | 46.09 | 35.99 | 56.04 | 46.04 | -9.95 | -10.05 |
| 3 | 0.72422 | 0.23 | 43.82 | 33.79 | 44.05 | 34.02 | 56.00 | 46.00 | -11.95 | -11.98 |
| 4 | 1.57031 | 0.30 | 39.97 | 29.60 | 40.27 | 29.90 | 56.00 | 46.00 | -15.73 | -16.10 |
| 5 | 8.44531 | 0.79 | 41.53 | 33.10 | 42.32 | 33.89 | 60.00 | 50.00 | -17.68 | -16.11 |
| 6 | 11.33984 | 0.98 | 40.82 | 33.20 | 41.80 | 34.18 | 60.00 | 50.00 | -18.20 | -15.82 |

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

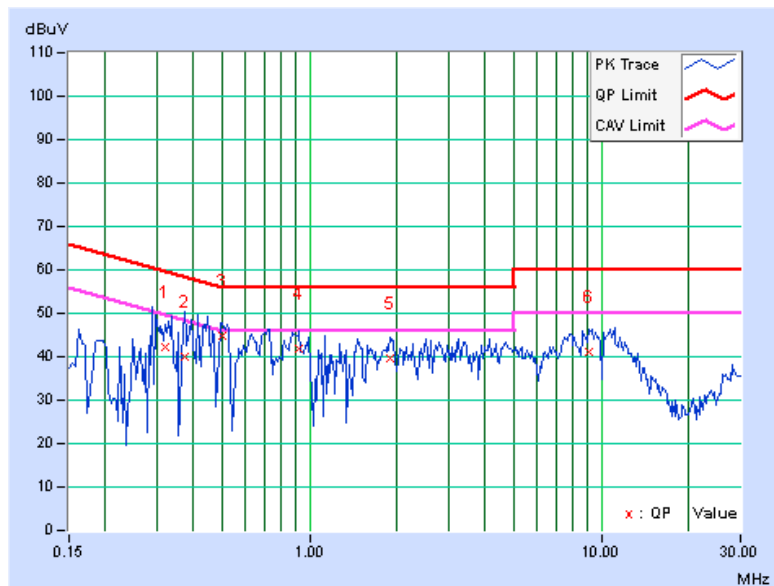


| | | | |
|---------|-------------|-------------------|--------------------------------|
| CHANNEL | Channel 140 | | |
| PHASE | Neutral (N) | DETECTOR FUNCTION | Quasi-Peak (QP) / Average (AV) |

| No | Freq. | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|----|---------|--------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | [MHz] | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.32188 | 0.17 | 42.19 | 35.35 | 42.36 | 35.52 | 59.66 | 49.66 | -17.30 | -14.14 |
| 2 | 0.37266 | 0.18 | 39.94 | 30.69 | 40.12 | 30.87 | 58.44 | 48.44 | -18.32 | -17.57 |
| 3 | 0.50156 | 0.20 | 44.59 | 36.08 | 44.79 | 36.28 | 56.00 | 46.00 | -11.21 | -9.72 |
| 4 | 0.92344 | 0.22 | 41.73 | 30.75 | 41.95 | 30.97 | 56.00 | 46.00 | -14.05 | -15.03 |
| 5 | 1.89844 | 0.29 | 39.28 | 29.18 | 39.57 | 29.47 | 56.00 | 46.00 | -16.43 | -16.53 |
| 6 | 9.09766 | 0.69 | 40.42 | 32.28 | 41.11 | 32.97 | 60.00 | 50.00 | -18.89 | -17.03 |

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



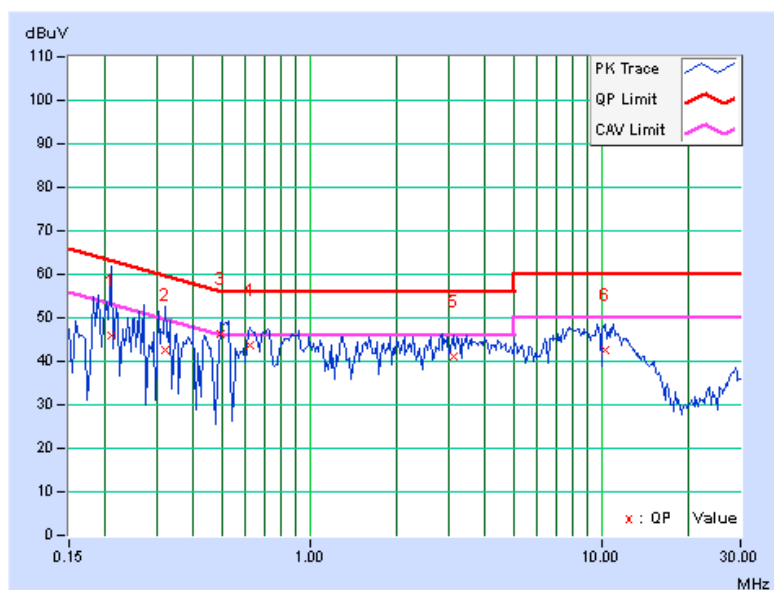
4.1.8 TEST RESULTS (MODE 2)

| | | | |
|----------------|-------------|--------------------------|--------------------------------|
| CHANNEL | Channel 100 | | |
| PHASE | Line (L) | DETECTOR FUNCTION | Quasi-Peak (QP) / Average (AV) |

| | Freq. | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|-----------|--------------|---------------|----------------------|------------|-----------------------|------------|------------------|------------|---------------|------------|
| No | | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.20859 | 0.15 | 45.91 | 19.96 | 46.06 | 20.11 | 63.26 | 53.26 | -17.20 | -33.15 |
| 2 | 0.32188 | 0.18 | 42.33 | 37.08 | 42.51 | 37.26 | 59.66 | 49.66 | -17.15 | -12.40 |
| 3 | 0.49766 | 0.21 | 46.08 | 35.98 | 46.29 | 36.19 | 56.04 | 46.04 | -9.75 | -9.85 |
| 4 | 0.62656 | 0.22 | 43.54 | 33.71 | 43.76 | 33.93 | 56.00 | 46.00 | -12.24 | -12.07 |
| 5 | 3.10547 | 0.41 | 40.77 | 30.76 | 41.18 | 31.17 | 56.00 | 46.00 | -14.82 | -14.83 |
| 6 | 10.28516 | 0.92 | 41.73 | 33.87 | 42.65 | 34.79 | 60.00 | 50.00 | -17.35 | -15.21 |

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

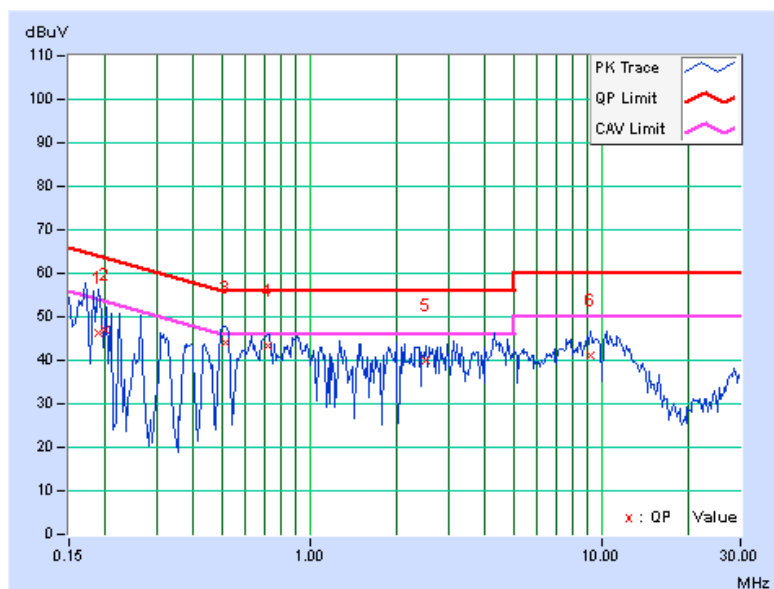


| | | | |
|---------|-------------|-------------------|--------------------------------|
| CHANNEL | Channel 100 | | |
| PHASE | Neutral (N) | DETECTOR FUNCTION | Quasi-Peak (QP) / Average (AV) |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|----|----------------|-------------------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|--------|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.18906 | 0.13 | 46.07 | 33.16 | 46.20 | 33.29 | 64.08 | 54.08 | -17.88 | -20.79 |
| 2 | 0.20003 | 0.13 | 47.09 | 28.55 | 47.22 | 28.68 | 63.61 | 53.61 | -16.39 | -24.93 |
| 3 | 0.51719 | 0.20 | 43.92 | 36.44 | 44.12 | 36.64 | 56.00 | 46.00 | -11.88 | -9.36 |
| 4 | 0.72422 | 0.21 | 42.97 | 32.57 | 43.18 | 32.78 | 56.00 | 46.00 | -12.82 | -13.22 |
| 5 | 2.51953 | 0.33 | 39.58 | 28.71 | 39.91 | 29.04 | 56.00 | 46.00 | -16.09 | -16.96 |
| 6 | 9.19531 | 0.70 | 40.52 | 32.18 | 41.22 | 32.88 | 60.00 | 50.00 | -18.78 | -17.12 |

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

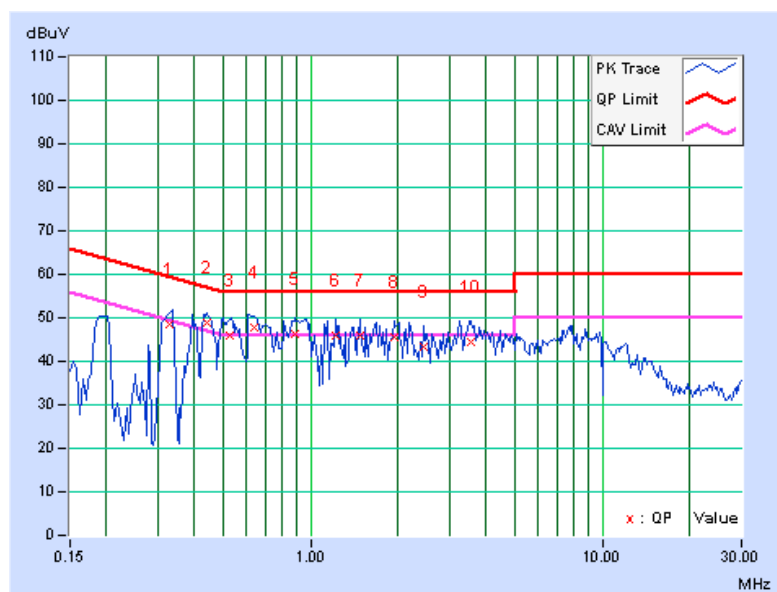


| | | | |
|---------|-------------|-------------------|--------------------------------|
| CHANNEL | Channel 116 | | |
| PHASE | Line (L) | DETECTOR FUNCTION | Quasi-Peak (QP) / Average (AV) |

| | Freq. | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|----|---------|--------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| No | | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.32975 | 0.18 | 48.42 | 38.29 | 48.60 | 38.47 | 59.46 | 49.46 | -10.86 | -10.99 |
| 2 | 0.44297 | 0.20 | 48.55 | 38.97 | 48.75 | 39.17 | 57.01 | 47.01 | -8.25 | -7.83 |
| 3 | 0.52706 | 0.21 | 45.86 | 33.32 | 46.07 | 33.53 | 56.00 | 46.00 | -9.93 | -12.47 |
| 4 | 0.64219 | 0.22 | 47.60 | 36.24 | 47.82 | 36.46 | 56.00 | 46.00 | -8.18 | -9.54 |
| 5 | 0.88828 | 0.24 | 46.13 | 33.15 | 46.37 | 33.39 | 56.00 | 46.00 | -9.63 | -12.61 |
| 6 | 1.22656 | 0.27 | 45.77 | 31.71 | 46.04 | 31.98 | 56.00 | 46.00 | -9.96 | -14.02 |
| 7 | 1.47266 | 0.29 | 45.79 | 32.32 | 46.08 | 32.61 | 56.00 | 46.00 | -9.92 | -13.39 |
| 8 | 1.92969 | 0.33 | 45.10 | 33.52 | 45.43 | 33.85 | 56.00 | 46.00 | -10.57 | -12.15 |
| 9 | 2.45313 | 0.37 | 42.79 | 31.15 | 43.16 | 31.52 | 56.00 | 46.00 | -12.84 | -14.48 |
| 10 | 3.55469 | 0.44 | 44.07 | 32.88 | 44.51 | 33.32 | 56.00 | 46.00 | -11.49 | -12.68 |

REMARKS:

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

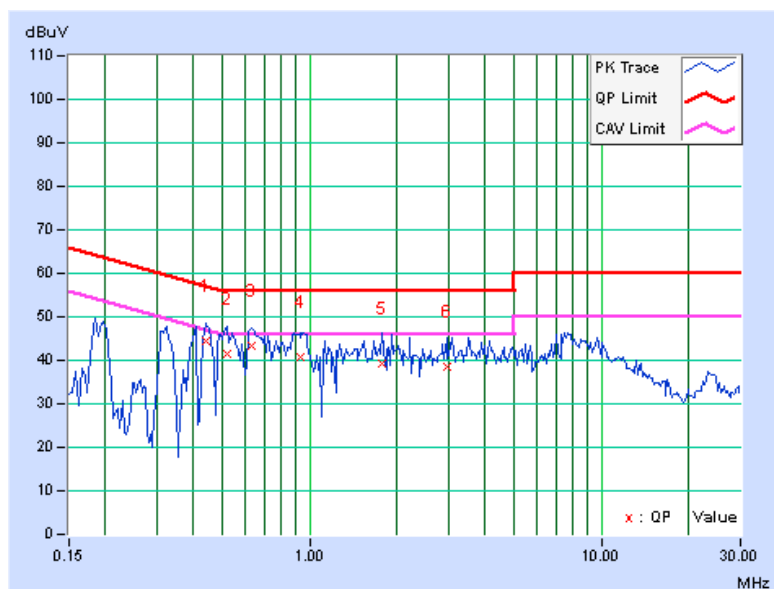


| | | | |
|---------|-------------|-------------------|--------------------------------|
| CHANNEL | Channel 116 | | |
| PHASE | Neutral (N) | DETECTOR FUNCTION | Quasi-Peak (QP) / Average (AV) |

| No | Freq. | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|----|---------|--------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | [MHz] | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.43906 | 0.19 | 44.17 | 33.49 | 44.36 | 33.68 | 57.08 | 47.08 | -12.72 | -13.40 |
| 2 | 0.52500 | 0.20 | 41.17 | 29.37 | 41.37 | 29.57 | 56.00 | 46.00 | -14.63 | -16.43 |
| 3 | 0.63047 | 0.20 | 43.00 | 31.01 | 43.20 | 31.21 | 56.00 | 46.00 | -12.80 | -14.79 |
| 4 | 0.93125 | 0.22 | 40.56 | 28.68 | 40.78 | 28.90 | 56.00 | 46.00 | -15.22 | -17.10 |
| 5 | 1.76953 | 0.28 | 39.15 | 25.68 | 39.43 | 25.96 | 56.00 | 46.00 | -16.57 | -20.04 |
| 6 | 2.95313 | 0.36 | 38.17 | 26.22 | 38.53 | 26.58 | 56.00 | 46.00 | -17.47 | -19.42 |

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

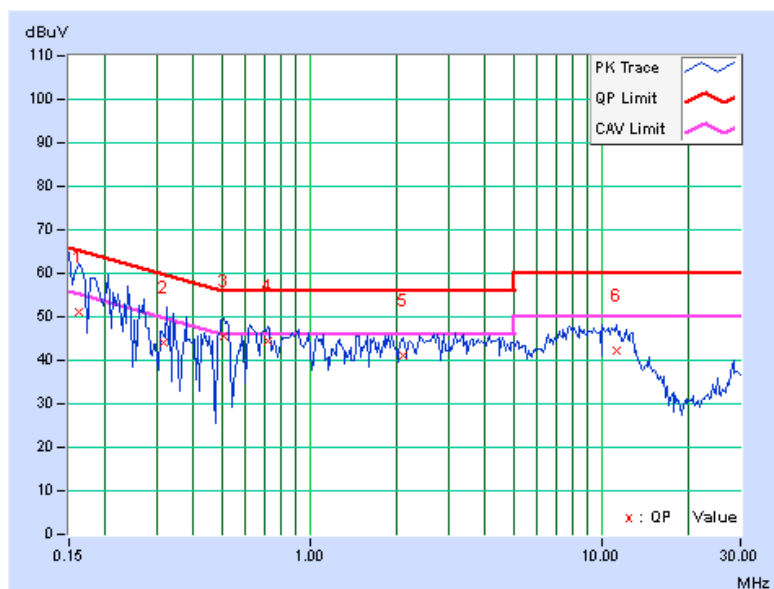


| | | | |
|---------|-------------|-------------------|--------------------------------|
| CHANNEL | Channel 140 | | |
| PHASE | Line (L) | DETECTOR FUNCTION | Quasi-Peak (QP) / Average (AV) |

| No | Freq. | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------|-------------|----------------|---------------|----------------|---------------|----------------|---------------|-----------|----------|
| | [MHz] | Factor (dB) | Q.P. [dB (uV)] | AV. [dB (uV)] | Q.P. [dB (uV)] | AV. [dB (uV)] | Q.P. [dB (uV)] | AV. [dB (uV)] | Q.P. (dB) | AV. (dB) |
| 1 | 0.16172 | 0.13 | 50.88 | 23.26 | 51.01 | 23.39 | 65.38 | 55.38 | -14.36 | -31.98 |
| 2 | 0.31634 | 0.18 | 43.95 | 37.75 | 44.13 | 37.93 | 59.80 | 49.80 | -15.67 | -11.87 |
| 3 | 0.50938 | 0.21 | 45.40 | 38.39 | 45.61 | 38.60 | 56.00 | 46.00 | -10.39 | -7.40 |
| 4 | 0.72422 | 0.23 | 44.14 | 34.20 | 44.37 | 34.43 | 56.00 | 46.00 | -11.63 | -11.57 |
| 5 | 2.08203 | 0.35 | 40.81 | 30.03 | 41.16 | 30.38 | 56.00 | 46.00 | -14.84 | -15.62 |
| 6 | 11.28125 | 0.98 | 41.28 | 33.67 | 42.26 | 34.65 | 60.00 | 50.00 | -17.74 | -15.35 |

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

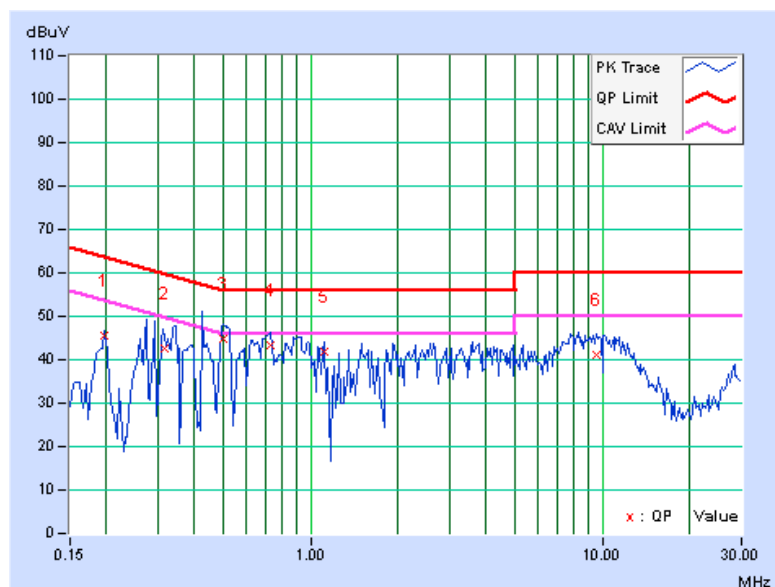


| | | | |
|---------|-------------|-------------------|--------------------------------|
| CHANNEL | Channel 140 | | |
| PHASE | Neutral (N) | DETECTOR FUNCTION | Quasi-Peak (QP) / Average (AV) |

| | Freq. | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|----|---------|--------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| No | | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.19687 | 0.13 | 45.52 | 32.17 | 45.65 | 32.30 | 63.74 | 53.74 | -18.09 | -21.44 |
| 2 | 0.31650 | 0.16 | 42.53 | 35.96 | 42.69 | 36.12 | 59.80 | 49.80 | -17.10 | -13.67 |
| 3 | 0.50156 | 0.20 | 44.69 | 36.24 | 44.89 | 36.44 | 56.00 | 46.00 | -11.11 | -9.56 |
| 4 | 0.72813 | 0.21 | 43.03 | 30.73 | 43.24 | 30.94 | 56.00 | 46.00 | -12.76 | -15.06 |
| 5 | 1.11719 | 0.23 | 41.48 | 32.02 | 41.71 | 32.25 | 56.00 | 46.00 | -14.29 | -13.75 |
| 6 | 9.53516 | 0.72 | 40.55 | 32.41 | 41.27 | 33.13 | 60.00 | 50.00 | -18.73 | -16.87 |

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



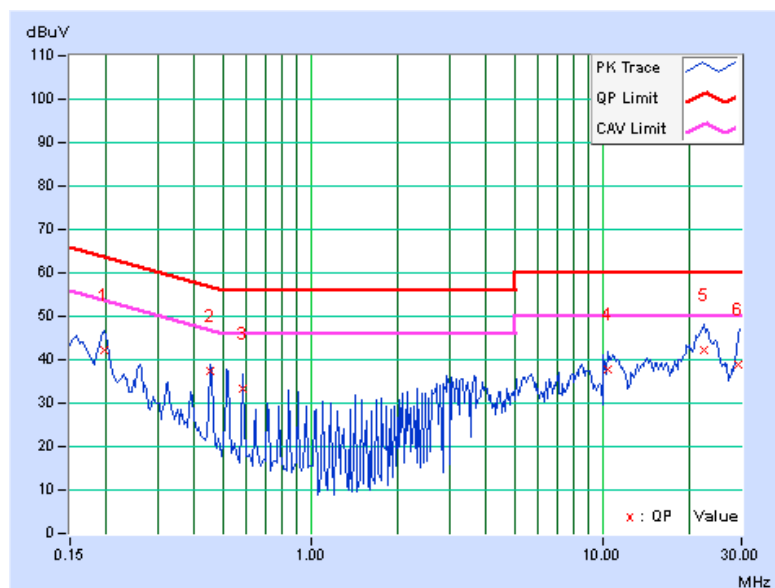
4.1.9 TEST RESULTS (MODE 3)

| | | | |
|----------------|-------------|--------------------------|--------------------------------|
| CHANNEL | Channel 100 | | |
| PHASE | Line (L) | DETECTOR FUNCTION | Quasi-Peak (QP) / Average (AV) |

| | Freq. | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|-----------|--------------|---------------|----------------------|------------|-----------------------|------------|------------------|------------|---------------|------------|
| No | | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.19687 | 0.14 | 41.93 | 32.23 | 42.07 | 32.37 | 63.74 | 53.74 | -21.67 | -21.37 |
| 2 | 0.45469 | 0.18 | 37.33 | 37.28 | 37.51 | 37.46 | 56.79 | 46.79 | -19.28 | -9.33 |
| 3 | 0.58359 | 0.19 | 33.04 | 33.04 | 33.23 | 33.23 | 56.00 | 46.00 | -22.77 | -12.77 |
| 4 | 10.44141 | 0.68 | 36.99 | 33.07 | 37.67 | 33.75 | 60.00 | 50.00 | -22.33 | -16.25 |
| 5 | 22.35547 | 1.10 | 40.98 | 34.81 | 42.08 | 35.91 | 60.00 | 50.00 | -17.92 | -14.09 |
| 6 | 29.14063 | 1.31 | 37.43 | 32.73 | 38.74 | 34.04 | 60.00 | 50.00 | -21.26 | -15.96 |

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

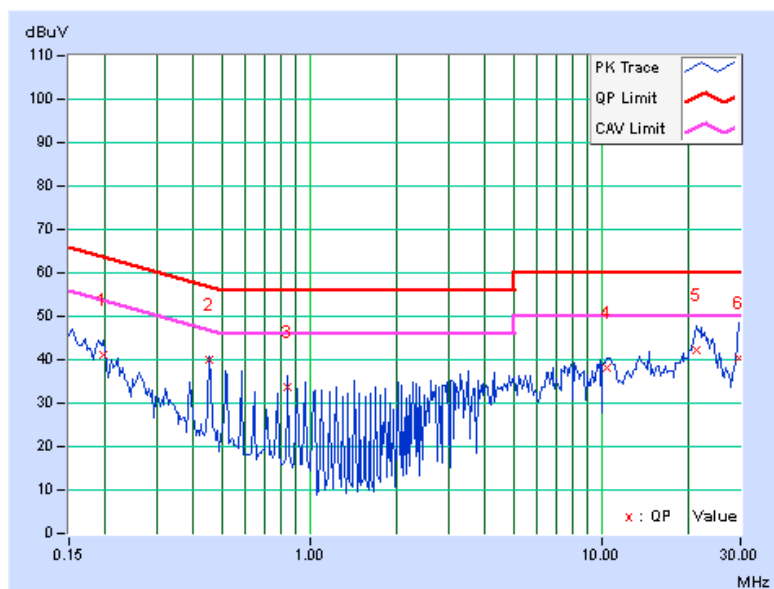


| | | | |
|---------|-------------|-------------------|--------------------------------|
| CHANNEL | Channel 100 | | |
| PHASE | Neutral (N) | DETECTOR FUNCTION | Quasi-Peak (QP) / Average (AV) |

| | Freq. | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------|--------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| No | | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.19687 | 0.12 | 41.05 | 32.84 | 41.17 | 32.96 | 63.74 | 53.74 | -22.57 | -20.78 |
| 2 | 0.45469 | 0.17 | 39.93 | 39.33 | 40.10 | 39.50 | 56.79 | 46.79 | -16.69 | -7.29 |
| 3 | 0.84141 | 0.19 | 33.47 | 33.22 | 33.66 | 33.41 | 56.00 | 46.00 | -22.34 | -12.59 |
| 4 | 10.43359 | 0.53 | 37.74 | 33.76 | 38.27 | 34.29 | 60.00 | 50.00 | -21.73 | -15.71 |
| 5 | 21.24609 | 0.75 | 41.39 | 34.64 | 42.14 | 35.39 | 60.00 | 50.00 | -17.86 | -14.61 |
| 6 | 29.44922 | 0.95 | 39.54 | 34.94 | 40.49 | 35.89 | 60.00 | 50.00 | -19.51 | -14.11 |

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

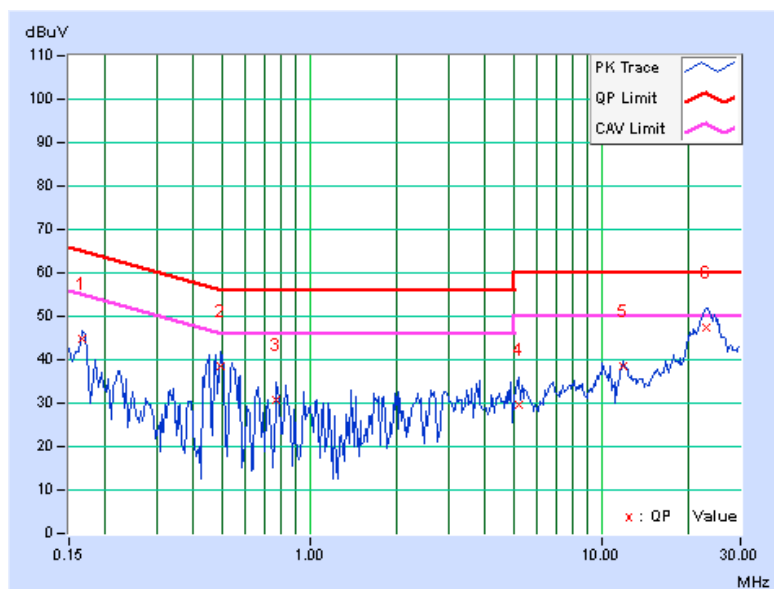


| | | | |
|---------|-------------|-------------------|--------------------------------|
| CHANNEL | Channel 116 | | |
| PHASE | Line (L) | DETECTOR FUNCTION | Quasi-Peak (QP) / Average (AV) |

| | Freq. | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------|--------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| No | | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.16562 | 0.13 | 44.51 | 36.80 | 44.64 | 36.93 | 65.18 | 55.18 | -20.54 | -18.25 |
| 2 | 0.49375 | 0.19 | 38.49 | 32.97 | 38.68 | 33.16 | 56.10 | 46.10 | -17.43 | -12.95 |
| 3 | 0.77109 | 0.20 | 30.44 | 24.81 | 30.64 | 25.01 | 56.00 | 46.00 | -25.36 | -20.99 |
| 4 | 5.19141 | 0.42 | 29.35 | 20.52 | 29.77 | 20.94 | 60.00 | 50.00 | -30.23 | -29.06 |
| 5 | 11.88672 | 0.74 | 37.94 | 34.96 | 38.68 | 35.70 | 60.00 | 50.00 | -21.32 | -14.30 |
| 6 | 22.98047 | 1.12 | 46.33 | 40.32 | 47.45 | 41.44 | 60.00 | 50.00 | -12.55 | -8.56 |

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

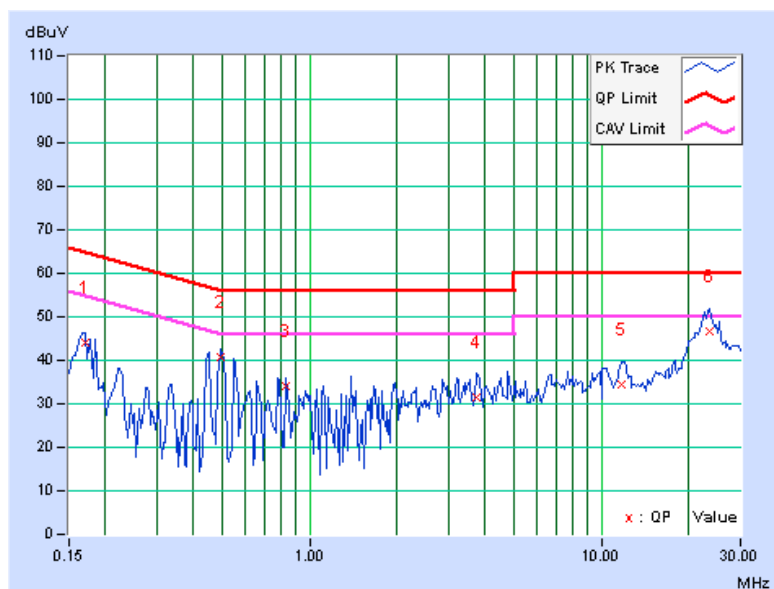


| | | | |
|---------|-------------|-------------------|--------------------------------|
| CHANNEL | Channel 116 | | |
| PHASE | Neutral (N) | DETECTOR FUNCTION | Quasi-Peak (QP) / Average (AV) |

| No | Freq. | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------|--------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | [MHz] | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.16953 | 0.11 | 44.08 | 36.68 | 44.19 | 36.79 | 64.98 | 54.98 | -20.80 | -18.20 |
| 2 | 0.49766 | 0.17 | 40.48 | 38.00 | 40.65 | 38.17 | 56.04 | 46.04 | -15.38 | -7.86 |
| 3 | 0.82969 | 0.19 | 33.90 | 29.64 | 34.09 | 29.83 | 56.00 | 46.00 | -21.91 | -16.17 |
| 4 | 3.74219 | 0.32 | 31.22 | 22.36 | 31.54 | 22.68 | 56.00 | 46.00 | -24.46 | -23.32 |
| 5 | 11.67969 | 0.56 | 33.95 | 28.28 | 34.51 | 28.84 | 60.00 | 50.00 | -25.49 | -21.16 |
| 6 | 23.38281 | 0.80 | 45.70 | 39.68 | 46.50 | 40.48 | 60.00 | 50.00 | -13.50 | -9.52 |

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

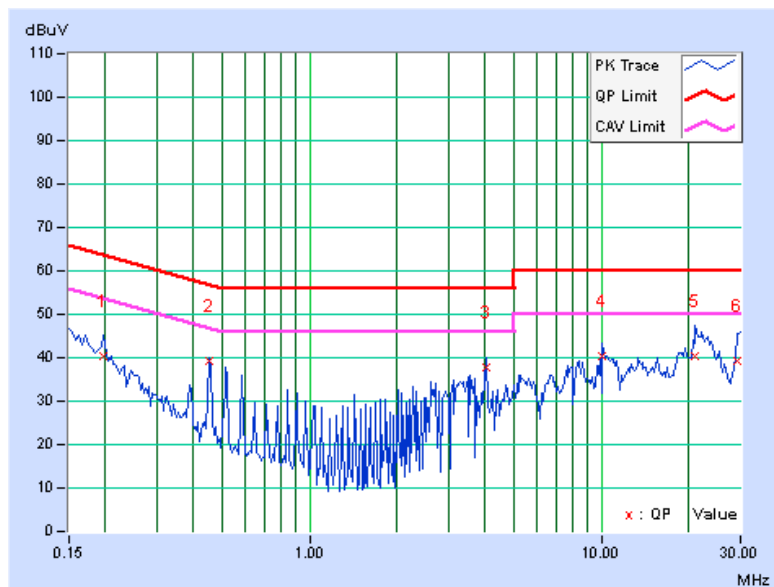


| | | | |
|---------|-------------|-------------------|--------------------------------|
| CHANNEL | Channel 140 | | |
| PHASE | Line (L) | DETECTOR FUNCTION | Quasi-Peak (QP) / Average (AV) |

| | Freq. | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------|--------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| No | | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.19687 | 0.14 | 40.32 | 31.05 | 40.46 | 31.19 | 63.74 | 53.74 | -23.28 | -22.55 |
| 2 | 0.45469 | 0.18 | 39.16 | 38.48 | 39.34 | 38.66 | 56.79 | 46.79 | -17.45 | -8.13 |
| 3 | 4.01953 | 0.36 | 37.36 | 36.03 | 37.72 | 36.39 | 56.00 | 46.00 | -18.28 | -9.61 |
| 4 | 10.04297 | 0.66 | 39.77 | 35.86 | 40.43 | 36.52 | 60.00 | 50.00 | -19.57 | -13.48 |
| 5 | 21.06250 | 1.06 | 39.39 | 33.71 | 40.45 | 34.77 | 60.00 | 50.00 | -19.55 | -15.23 |
| 6 | 29.16406 | 1.31 | 37.87 | 33.32 | 39.18 | 34.63 | 60.00 | 50.00 | -20.82 | -15.37 |

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

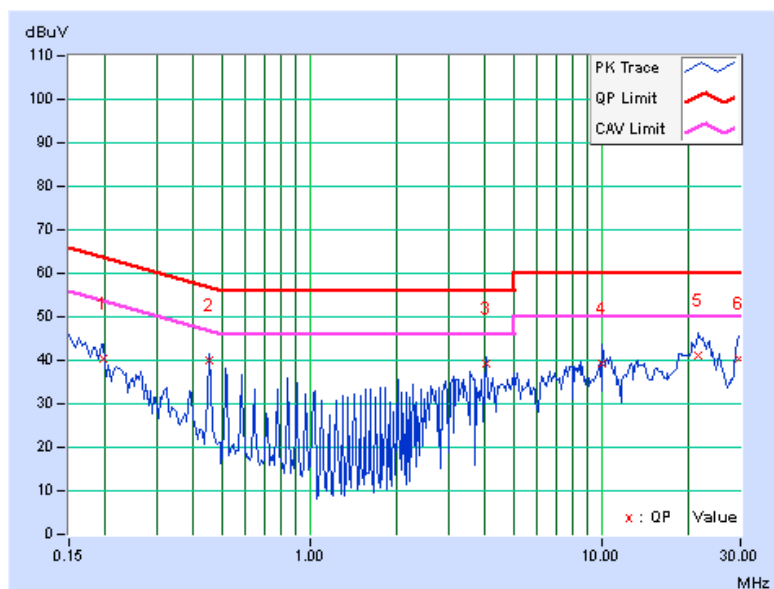


| | | | |
|---------|-------------|-------------------|--------------------------------|
| CHANNEL | Channel 140 | | |
| PHASE | Neutral (N) | DETECTOR FUNCTION | Quasi-Peak (QP) / Average (AV) |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|----|----------------|-------------------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|--------|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.19687 | 0.12 | 40.30 | 32.12 | 40.42 | 32.24 | 63.74 | 53.74 | -23.32 | -21.50 |
| 2 | 0.45469 | 0.17 | 39.81 | 39.32 | 39.98 | 39.49 | 56.79 | 46.79 | -16.81 | -7.30 |
| 3 | 4.01953 | 0.33 | 39.05 | 36.94 | 39.38 | 37.27 | 56.00 | 46.00 | -16.62 | -8.73 |
| 4 | 10.10547 | 0.52 | 38.77 | 34.43 | 39.29 | 34.95 | 60.00 | 50.00 | -20.71 | -15.05 |
| 5 | 21.44141 | 0.75 | 40.50 | 34.65 | 41.25 | 35.40 | 60.00 | 50.00 | -18.75 | -14.60 |
| 6 | 29.44922 | 0.95 | 39.39 | 34.80 | 40.34 | 35.75 | 60.00 | 50.00 | -19.66 | -14.25 |

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



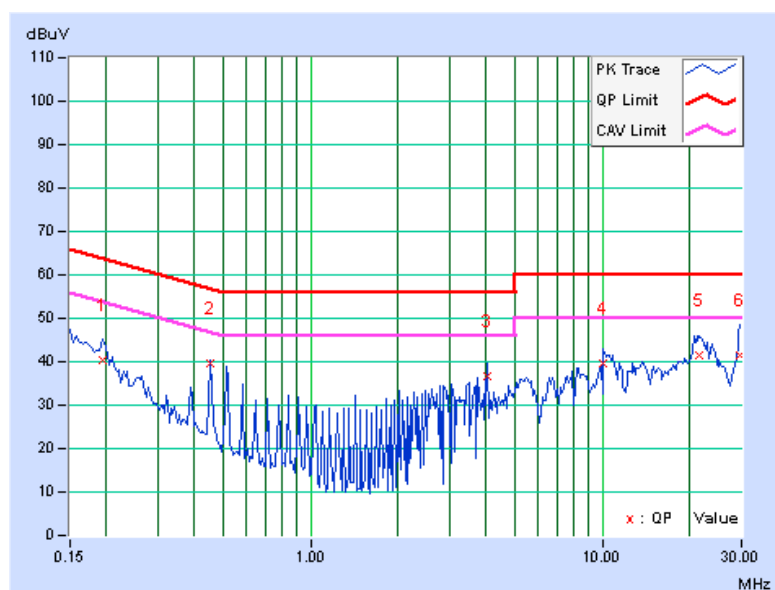
4.1.10 TEST RESULTS (MODE 4)

| | | | |
|----------------|-------------|--------------------------|--------------------------------|
| CHANNEL | Channel 100 | | |
| PHASE | Line (L) | DETECTOR FUNCTION | Quasi-Peak (QP) / Average (AV) |

| | Freq. | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|-----------|--------------|---------------|----------------------|------------|-----------------------|------------|------------------|------------|---------------|------------|
| No | | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.19297 | 0.14 | 40.34 | 31.29 | 40.48 | 31.43 | 63.91 | 53.91 | -23.43 | -22.48 |
| 2 | 0.45469 | 0.18 | 39.36 | 38.80 | 39.54 | 38.98 | 56.79 | 46.79 | -17.25 | -7.81 |
| 3 | 4.01953 | 0.36 | 36.26 | 34.37 | 36.62 | 34.73 | 56.00 | 46.00 | -19.38 | -11.27 |
| 4 | 10.04688 | 0.66 | 39.09 | 34.99 | 39.75 | 35.65 | 60.00 | 50.00 | -20.25 | -14.35 |
| 5 | 21.56641 | 1.08 | 40.36 | 34.40 | 41.44 | 35.48 | 60.00 | 50.00 | -18.56 | -14.52 |
| 6 | 29.62500 | 1.33 | 40.04 | 35.54 | 41.37 | 36.87 | 60.00 | 50.00 | -18.63 | -13.13 |

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

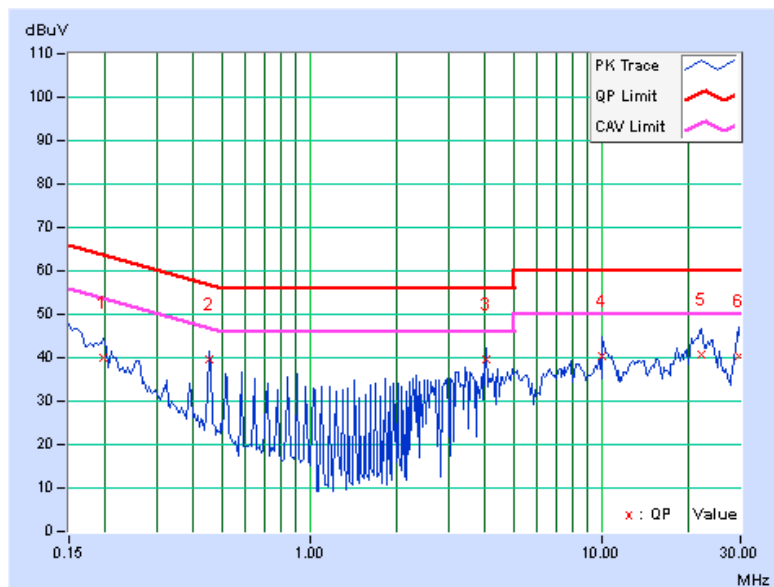


| | | | |
|---------|-------------|-------------------|--------------------------------|
| CHANNEL | Channel 100 | | |
| PHASE | Neutral (N) | DETECTOR FUNCTION | Quasi-Peak (QP) / Average (AV) |

| | Freq. | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------|--------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| No | | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.19687 | 0.12 | 40.06 | 32.31 | 40.18 | 32.43 | 63.74 | 53.74 | -23.56 | -21.31 |
| 2 | 0.45469 | 0.17 | 39.53 | 40.04 | 39.70 | 40.21 | 56.79 | 46.79 | -17.09 | -6.58 |
| 3 | 4.01563 | 0.33 | 39.34 | 37.01 | 39.67 | 37.34 | 56.00 | 46.00 | -16.33 | -8.66 |
| 4 | 10.04297 | 0.52 | 39.67 | 35.72 | 40.19 | 36.24 | 60.00 | 50.00 | -19.81 | -13.76 |
| 5 | 22.07813 | 0.77 | 39.98 | 33.16 | 40.75 | 33.93 | 60.00 | 50.00 | -19.25 | -16.07 |
| 6 | 29.55859 | 0.95 | 39.55 | 34.78 | 40.50 | 35.73 | 60.00 | 50.00 | -19.50 | -14.27 |

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

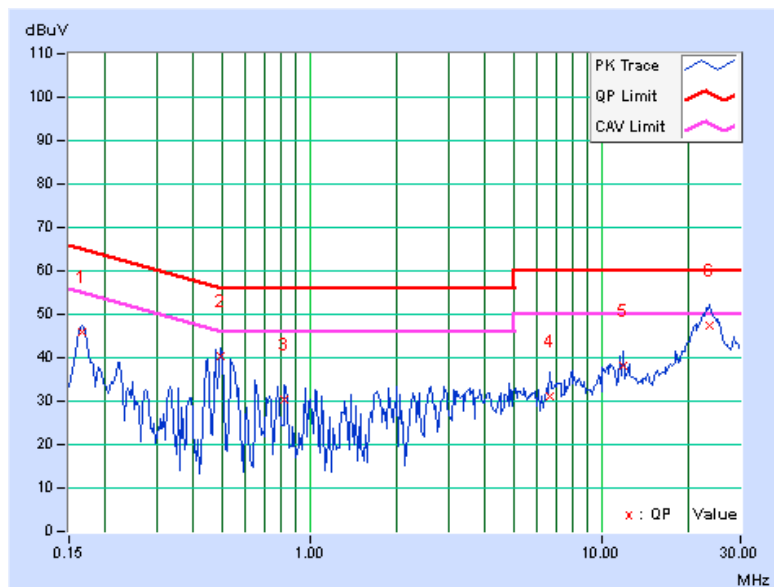


| | | | |
|---------|-------------|-------------------|--------------------------------|
| CHANNEL | Channel 116 | | |
| PHASE | Line (L) | DETECTOR FUNCTION | Quasi-Peak (QP) / Average (AV) |

| | Freq. | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------|--------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| No | | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.16562 | 0.13 | 45.80 | 37.53 | 45.93 | 37.66 | 65.18 | 55.18 | -19.25 | -17.52 |
| 2 | 0.49800 | 0.19 | 40.08 | 39.60 | 40.27 | 39.79 | 56.03 | 46.03 | -15.77 | -6.25 |
| 3 | 0.82188 | 0.21 | 30.25 | 22.52 | 30.46 | 22.73 | 56.00 | 46.00 | -25.54 | -23.27 |
| 4 | 6.68359 | 0.49 | 30.58 | 23.08 | 31.07 | 23.57 | 60.00 | 50.00 | -28.93 | -26.43 |
| 5 | 11.90416 | 0.74 | 37.44 | 35.12 | 38.18 | 35.86 | 60.00 | 50.00 | -21.82 | -14.14 |
| 6 | 23.41406 | 1.14 | 46.39 | 40.32 | 47.53 | 41.46 | 60.00 | 50.00 | -12.47 | -8.54 |

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

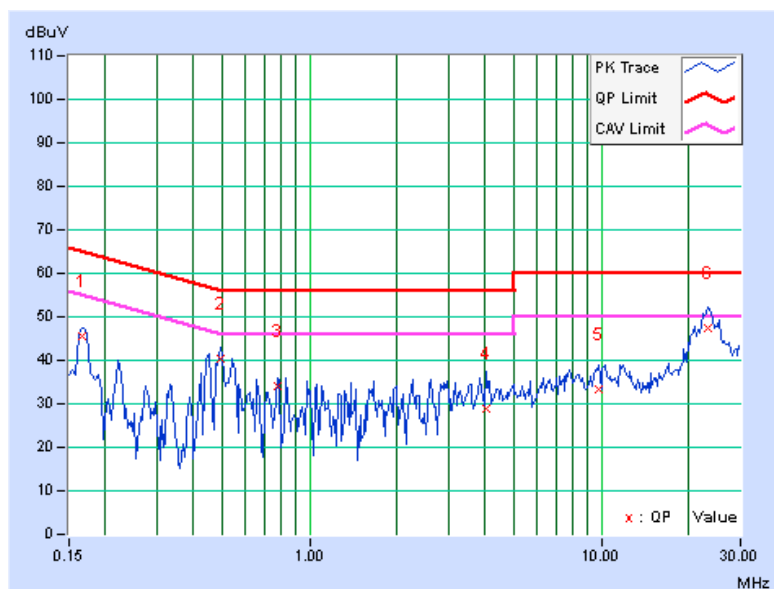


| | | | |
|---------|-------------|-------------------|--------------------------------|
| CHANNEL | Channel 116 | | |
| PHASE | Neutral (N) | DETECTOR FUNCTION | Quasi-Peak (QP) / Average (AV) |

| No | Freq. | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------|--------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | [MHz] | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.16562 | 0.11 | 45.38 | 37.95 | 45.49 | 38.06 | 65.18 | 55.18 | -19.69 | -17.12 |
| 2 | 0.49375 | 0.17 | 40.30 | 35.72 | 40.47 | 35.89 | 56.10 | 46.10 | -15.63 | -10.21 |
| 3 | 0.77500 | 0.19 | 34.04 | 32.32 | 34.23 | 32.51 | 56.00 | 46.00 | -21.77 | -13.49 |
| 4 | 4.04297 | 0.33 | 28.44 | 21.06 | 28.77 | 21.39 | 56.00 | 46.00 | -27.23 | -24.61 |
| 5 | 9.78906 | 0.51 | 32.93 | 26.70 | 33.44 | 27.21 | 60.00 | 50.00 | -26.56 | -22.79 |
| 6 | 23.09766 | 0.79 | 46.52 | 40.61 | 47.31 | 41.40 | 60.00 | 50.00 | -12.69 | -8.60 |

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

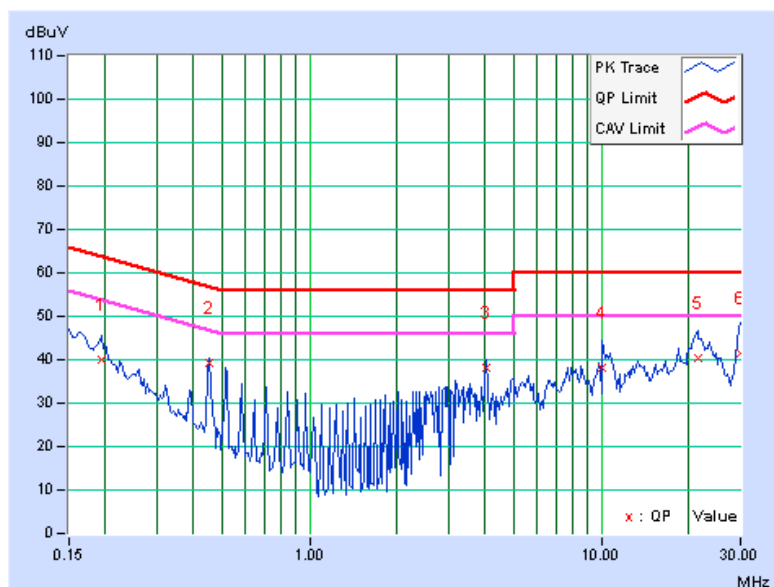


| | | | |
|---------|-------------|-------------------|--------------------------------|
| CHANNEL | Channel 140 | | |
| PHASE | Line (L) | DETECTOR FUNCTION | Quasi-Peak (QP) / Average (AV) |

| | Freq. | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------|--------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| No | | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.19297 | 0.14 | 39.87 | 30.62 | 40.01 | 30.76 | 63.91 | 53.91 | -23.90 | -23.15 |
| 2 | 0.45469 | 0.18 | 38.98 | 38.40 | 39.16 | 38.58 | 56.79 | 46.79 | -17.63 | -8.21 |
| 3 | 4.01172 | 0.36 | 37.81 | 36.94 | 38.17 | 37.30 | 56.00 | 46.00 | -17.83 | -8.70 |
| 4 | 10.03516 | 0.66 | 37.41 | 33.19 | 38.07 | 33.85 | 60.00 | 50.00 | -21.93 | -16.15 |
| 5 | 21.42578 | 1.07 | 39.43 | 33.14 | 40.50 | 34.21 | 60.00 | 50.00 | -19.50 | -15.79 |
| 6 | 29.84375 | 1.34 | 39.99 | 35.21 | 41.33 | 36.55 | 60.00 | 50.00 | -18.67 | -13.45 |

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

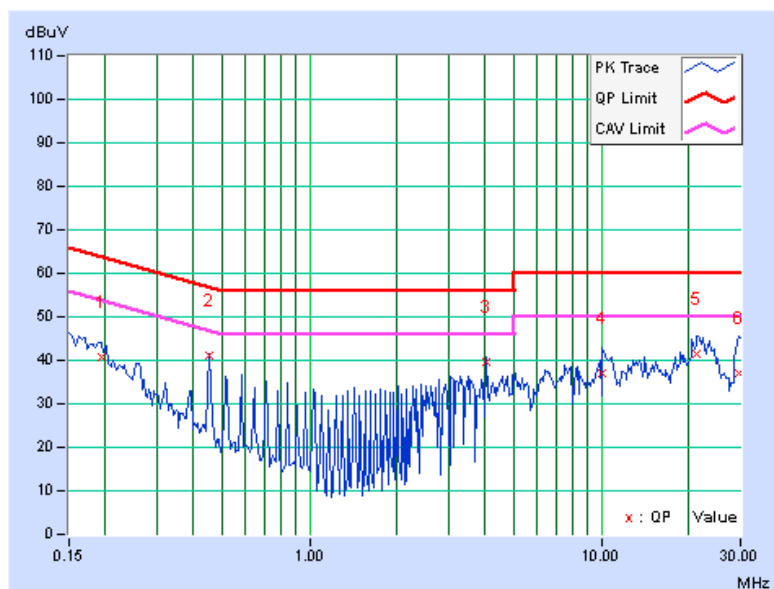


| | | | |
|---------|-------------|-------------------|--------------------------------|
| CHANNEL | Channel 140 | | |
| PHASE | Neutral (N) | DETECTOR FUNCTION | Quasi-Peak (QP) / Average (AV) |

| No | Freq. | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------|--------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | [MHz] | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.19500 | 0.12 | 40.79 | 33.10 | 40.91 | 33.22 | 63.82 | 53.82 | -22.91 | -20.60 |
| 2 | 0.45469 | 0.17 | 40.77 | 40.30 | 40.94 | 40.47 | 56.79 | 46.79 | -15.85 | -6.32 |
| 3 | 4.01172 | 0.33 | 39.20 | 37.17 | 39.53 | 37.50 | 56.00 | 46.00 | -16.47 | -8.50 |
| 4 | 10.03125 | 0.52 | 36.66 | 32.47 | 37.18 | 32.99 | 60.00 | 50.00 | -22.82 | -17.01 |
| 5 | 21.30288 | 0.75 | 40.55 | 34.12 | 41.30 | 34.87 | 60.00 | 50.00 | -18.70 | -15.13 |
| 6 | 29.57422 | 0.95 | 36.23 | 35.88 | 37.18 | 36.83 | 60.00 | 50.00 | -22.82 | -13.17 |

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



4.2 RADIATED EMISSION AND BANDEDGE MEASUREMENT

4.2.1 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.

4.2.2 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:

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

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

4.2.3 TEST INSTRUMENTS

For below 1GHz (channel 100, 140):

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|---|--------------------------|-------------------------------------|-----------------|------------------|
| MXE EMI Receiver Agilent | N9038A | MY51210105 | Jan. 29,2013 | Jan. 28,2014 |
| Pre-Amplifier Mini-Circuits | ZFL-1000VH2 B | AMP-ZFL-03 | Nov. 14, 2012 | Nov. 13, 2013 |
| Trilog Broadband Antenna SCHWARZBECK | VULB 9168 | 9168-360 | Mar. 19, 2013 | Mar. 18, 2014 |
| RF Cable | NA | CHGCAB_001 | Oct. 06, 2012 | Oct. 05, 2013 |
| Horn_Antenna AIS1 | AIH.8018 | 0000320091110 | Nov. 19, 2012 | Nov. 18, 2013 |
| Pre-Amplifier Agilent | 8449B | 3008A02578 | June 25, 2013 | June 24, 2014 |
| RF Cable | NA | RF104-201 RF104-203 RF104-204 | Dec. 25, 2012 | Dec. 24, 2013 |
| Spectrum Analyzer Agilent | E4446A | MY48250253 | Aug. 28, 2013 | Aug. 27, 2014 |
| Pre-Amplifier SPACEK LABS | SLKKa-48-6 | 9K16 | Nov. 14, 2012 | Nov. 13, 2013 |
| Horn_Antenna SCHWARZBECK | BBHA 9170 | 9170-424 | Oct. 12, 2012 | Oct. 11, 2013 |
| Software | ADT_Radiated _V8.7.07 | NA | NA | NA |
| Antenna Tower & Turn Table CT | NA | 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 horn antenna, preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
3. The test was performed in 966 Chamber No. G.
4. The FCC Site Registration No. is 966073.
5. The VCCI Site Registration No. is G-137.
6. The CANADA Site Registration No. is IC 7450H-2.
7. Tested Date: Sep. 23, 2013

**A D T****For other test items:**

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|---|--------------------------|-------------------------------------|-----------------|------------------|
| Spectrum Analyzer Agilent | E4446A | MY48250253 | Sep. 03, 2012 | Sep. 02, 2013 |
| MXE EMI Receiver Agilent | N9038A | MY50010156 | Jan. 16, 2013 | Jan. 15, 2014 |
| Pre-Amplifier Mini-Circuits | ZFL-1000VH2 B | AMP-ZFL-04 | Nov. 14, 2012 | Nov. 13, 2013 |
| Pre-Amplifier Agilent | 8449B | 3008A01923 | Oct. 30, 2012 | Oct. 29, 2013 |
| Pre-Amplifier SPACEK LABS | SLKKa-48-6 | 9K16 | Nov. 14, 2012 | Nov. 13, 2013 |
| Trilog Broadband Antenna SCHWARZBECK | VULB 9168 | 9168-361 | Mar. 25, 2013 | Mar. 24, 2014 |
| Horn_Antenna AISI | AIH.8018 | 0000220091110 | Nov. 27, 2012 | Nov. 26, 2013 |
| Horn_Antenna SCHWARZBECK | BBHA 9170 | 9170-424 | Oct. 12, 2012 | Oct. 11, 2013 |
| RF Cable | NA | RF104-205 RF104-207 RF104-202 | Dec. 26, 2012 | Dec. 25, 2013 |
| RF Cable | NA | CHHCAB_001 | Oct. 07, 2012 | Oct. 06, 2013 |
| Software | ADT_Radiated _V8.7.05 | NA | NA | NA |
| Antenna Tower & Turn Table CT | NA | 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 horn antenna, preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
3. The test was performed in 966 Chamber No. H.
4. The FCC Site Registration No. is 797305.
5. The CANADA Site Registration No. is IC 7450H-3.
6. Tested Date: Aug. 01 to 02, 2013

4.2.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters 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:

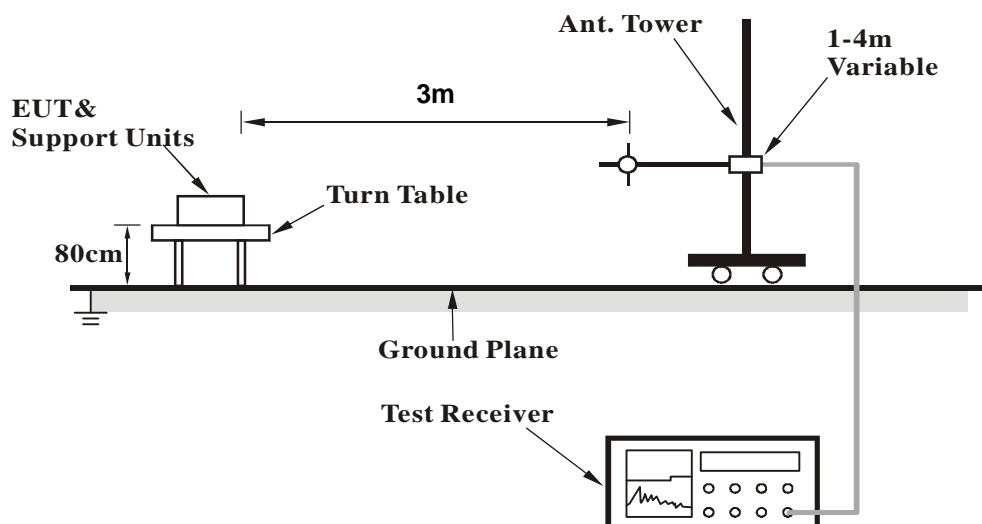
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.2.5 DEVIATION FROM TEST STANDARD

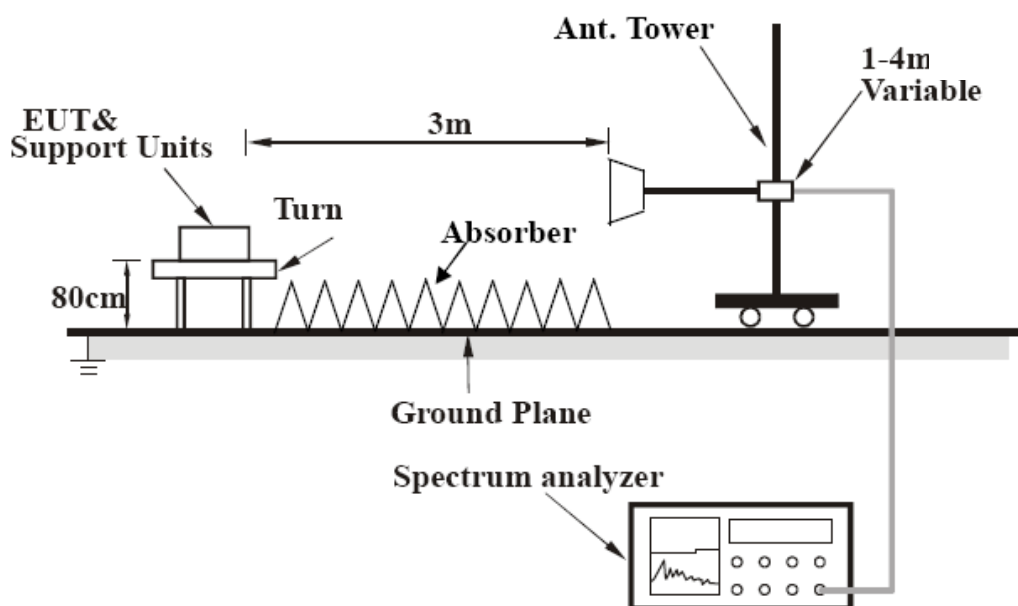
No deviation

4.2.6 TEST SETUP

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.2.7 EUT OPERATING CONDITION

Same as 4.1.6

4.2.8 TEST RESULTS (MODE 1)

BELOW 1GHz WORST-CASE DATA

802.11n (HT20)

| | | | |
|-----------------|----------------|----------------------|-----------------|
| CHANNEL | TX Channel 100 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | Below 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 | 95.65 | 34.6 QP | 43.5 | -8.9 | 2.00 H | 32 | 53.37 | -18.74 |
| 2 | 222.82 | 33.1 QP | 46.0 | -12.9 | 1.50 H | 89 | 49.48 | -16.34 |
| 3 | 374.79 | 35.2 QP | 46.0 | -10.8 | 1.00 H | 89 | 45.94 | -10.78 |
| 4 | 600.26 | 34.8 QP | 46.0 | -11.2 | 1.50 H | 27 | 40.30 | -5.46 |
| 5 | 750.43 | 35.4 QP | 46.0 | -10.6 | 1.00 H | 35 | 37.85 | -2.46 |
| 6 | 875.33 | 43.0 QP | 46.0 | -3.0 | 1.00 H | 315 | 43.91 | -0.93 |
| 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 | 90.98 | 36.1 QP | 43.5 | -7.4 | 1.50 V | 324 | 55.28 | -19.15 |
| 2 | 170.73 | 37.1 QP | 43.5 | -6.4 | 1.00 V | 92 | 50.88 | -13.78 |
| 3 | 375.43 | 34.4 QP | 46.0 | -11.7 | 1.50 V | 276 | 45.10 | -10.75 |
| 4 | 500.31 | 36.1 QP | 46.0 | -9.9 | 1.00 V | 292 | 43.88 | -7.76 |
| 5 | 600.42 | 35.8 QP | 46.0 | -10.2 | 2.00 V | 360 | 41.29 | -5.45 |
| 6 | 867.05 | 41.7 QP | 46.0 | -4.3 | 1.00 V | 13 | 42.68 | -1.01 |

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

| | | | |
|------------------------|----------------|------------------------------|-----------------|
| CHANNEL | TX Channel 116 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | Below 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 | 96.40 | 29.8 QP | 43.5 | -13.7 | 2.00 H | 228 | 48.29 | -18.47 |
| 2 | 176.13 | 33.5 QP | 43.5 | -10.0 | 1.00 H | 271 | 48.14 | -14.60 |
| 3 | 375.00 | 32.8 QP | 46.0 | -13.3 | 1.00 H | 205 | 43.06 | -10.31 |
| 4 | 625.00 | 37.2 QP | 46.0 | -8.8 | 1.00 H | 264 | 41.96 | -4.78 |
| 5 | 750.03 | 40.2 QP | 46.0 | -5.9 | 1.00 H | 248 | 42.70 | -2.55 |
| 6 | 866.72 | 38.1 QP | 46.0 | -7.9 | 1.50 H | 323 | 39.06 | -0.98 |
| 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 | 37.91 | 33.2 QP | 40.0 | -6.8 | 1.00 V | 243 | 46.93 | -13.75 |
| 2 | 225.30 | 32.1 QP | 46.0 | -13.9 | 1.00 V | 311 | 47.91 | -15.81 |
| 3 | 333.34 | 36.3 QP | 46.0 | -9.7 | 1.00 V | 265 | 47.36 | -11.06 |
| 4 | 466.69 | 36.4 QP | 46.0 | -9.6 | 1.00 V | 281 | 44.63 | -8.21 |
| 5 | 750.00 | 38.3 QP | 46.0 | -7.7 | 1.50 V | 106 | 40.83 | -2.55 |
| 6 | 875.02 | 39.7 QP | 46.0 | -6.3 | 1.00 V | 281 | 40.52 | -0.82 |

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

| | | | |
|-----------------|----------------|----------------------|-----------------|
| CHANNEL | TX Channel 140 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | Below 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 | 95.94 | 34.2 QP | 43.5 | -9.3 | 2.00 H | 32 | 52.94 | -18.72 |
| 2 | 223.09 | 32.9 QP | 46.0 | -13.1 | 1.50 H | 89 | 49.24 | -16.37 |
| 3 | 375.33 | 35.6 QP | 46.0 | -10.4 | 1.00 H | 89 | 46.33 | -10.75 |
| 4 | 602.26 | 34.5 QP | 46.0 | -11.5 | 1.50 H | 27 | 39.82 | -5.34 |
| 5 | 751.04 | 35.0 QP | 46.0 | -11.0 | 1.00 H | 35 | 37.39 | -2.43 |
| 6 | 875.80 | 42.5 QP | 46.0 | -3.5 | 1.00 H | 315 | 43.39 | -0.92 |
| 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 | 90.78 | 35.9 QP | 43.5 | -7.6 | 1.50 V | 324 | 55.04 | -19.15 |
| 2 | 168.73 | 36.2 QP | 43.5 | -7.3 | 1.00 V | 92 | 49.96 | -13.79 |
| 3 | 376.43 | 33.4 QP | 46.0 | -12.7 | 1.50 V | 276 | 44.04 | -10.69 |
| 4 | 501.31 | 35.7 QP | 46.0 | -10.3 | 1.00 V | 292 | 43.45 | -7.75 |
| 5 | 599.42 | 34.9 QP | 46.0 | -11.1 | 2.00 V | 360 | 40.41 | -5.47 |
| 6 | 862.05 | 42.3 QP | 46.0 | -3.7 | 1.00 V | 13 | 43.42 | -1.15 |

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

ABOVE 1GHz DATA

802.11a

| | | | |
|------------------------|---------------|------------------------------|--------------|
| 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 | 5150.00 | 70.6 PK | 74.0 | -3.4 | 1.35 H | 256 | 29.14 | 41.46 |
| 2 | 5150.00 | 47.7 AV | 54.0 | -6.3 | 1.35 H | 256 | 6.24 | 41.46 |
| 3 | *5260.00 | 116.7 PK | | | 1.35 H | 256 | 74.89 | 41.81 |
| 4 | *5260.00 | 108.9 AV | | | 1.35 H | 256 | 67.09 | 41.81 |
| 5 | 5350.00 | 61.4 PK | 74.0 | -12.6 | 1.35 H | 256 | 19.40 | 42.00 |
| 6 | 5350.00 | 44.4 AV | 54.0 | -9.6 | 1.35 H | 256 | 2.40 | 42.00 |
| 7 | #10520.00 | 51.4 PK | 74.0 | -22.6 | 1.00 H | 71 | 2.89 | 48.51 |
| 8 | #10520.00 | 39.3 AV | 54.0 | -14.7 | 1.00 H | 71 | -9.21 | 48.51 |
| 9 | 15780.00 | 59.7 PK | 74.0 | -14.3 | 1.00 H | 153 | 5.96 | 53.74 |
| 10 | 15780.00 | 47.2 AV | 54.0 | -6.8 | 1.00 H | 153 | -6.54 | 53.74 |
| 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 | 70.5 PK | 74.0 | -3.5 | 1.05 V | 360 | 29.04 | 41.46 |
| 2 | 5150.00 | 48.1 AV | 54.0 | -5.9 | 1.05 V | 360 | 6.64 | 41.46 |
| 3 | *5260.00 | 103.3 PK | | | 1.05 V | 360 | 61.49 | 41.81 |
| 4 | *5260.00 | 94.0 AV | | | 1.05 V | 360 | 52.19 | 41.81 |
| 5 | 5350.00 | 61.1 PK | 74.0 | -12.9 | 1.05 V | 360 | 19.10 | 42.00 |
| 6 | 5350.00 | 44.4 AV | 54.0 | -9.6 | 1.05 V | 360 | 2.40 | 42.00 |
| 7 | #10520.00 | 51.4 PK | 74.0 | -22.6 | 1.07 V | 148 | 2.89 | 48.51 |
| 8 | #10520.00 | 38.5 AV | 54.0 | -15.5 | 1.07 V | 148 | -10.01 | 48.51 |
| 9 | 15780.00 | 59.1 PK | 74.0 | -14.9 | 1.26 V | 85 | 5.36 | 53.74 |
| 10 | 15780.00 | 45.9 AV | 54.0 | -8.1 | 1.26 V | 85 | -7.84 | 53.74 |

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Emission Level – Limit value
- " * ": Fundamental frequency.
- " # ": The radiated frequency is out of the restricted band.



A D T

| | | | |
|-----------------|---------------|----------------------|--------------|
| 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 | *5300.00 | 113.8 PK | | | 1.30 H | 244 | 71.89 | 41.91 |
| 2 | *5300.00 | 105.7 AV | | | 1.30 H | 244 | 63.79 | 41.91 |
| 3 | 5350.00 | 68.9 PK | 74.0 | -5.1 | 1.30 H | 244 | 26.90 | 42.00 |
| 4 | 5350.00 | 49.8 AV | 54.0 | -4.2 | 1.30 H | 244 | 7.80 | 42.00 |
| 5 | 10600.00 | 50.6 PK | 74.0 | -23.4 | 1.28 H | 146 | 2.19 | 48.41 |
| 6 | 10600.00 | 38.2 AV | 54.0 | -15.8 | 1.28 H | 146 | -10.21 | 48.41 |
| 7 | 15900.00 | 60.4 PK | 74.0 | -13.6 | 1.26 H | 139 | 6.60 | 53.80 |
| 8 | 15900.00 | 48.3 AV | 54.0 | -5.7 | 1.26 H | 139 | -5.50 | 53.80 |
| 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 | *5300.00 | 99.8 PK | | | 1.04 V | 342 | 57.89 | 41.91 |
| 2 | *5300.00 | 89.8 AV | | | 1.04 V | 342 | 47.89 | 41.91 |
| 3 | 5350.00 | 67.8 PK | 74.0 | -6.2 | 1.04 V | 342 | 25.80 | 42.00 |
| 4 | 5350.00 | 49.3 AV | 54.0 | -4.7 | 1.04 V | 342 | 7.30 | 42.00 |
| 5 | 10600.00 | 50.6 PK | 74.0 | -23.4 | 1.26 V | 148 | 2.19 | 48.41 |
| 6 | 10600.00 | 37.6 AV | 54.0 | -16.4 | 1.26 V | 148 | -10.81 | 48.41 |
| 7 | 15900.00 | 58.5 PK | 74.0 | -15.5 | 1.24 V | 106 | 4.70 | 53.80 |
| 8 | 15900.00 | 45.3 AV | 54.0 | -8.7 | 1.24 V | 106 | -8.50 | 53.80 |

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)
– Pre-Amplifier 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 | *5320.00 | 108.8 PK | | | 1.18 H | 270 | 66.85 | 41.95 |
| 2 | *5320.00 | 101.2 AV | | | 1.18 H | 270 | 59.25 | 41.95 |
| 3 | 5350.00 | 73.9 PK | 74.0 | -0.1 | 1.18 H | 270 | 31.90 | 42.00 |
| 4 | 5350.00 | 52.8 AV | 54.0 | -1.2 | 1.18 H | 270 | 10.80 | 42.00 |
| 5 | 10640.00 | 50.2 PK | 74.0 | -23.8 | 1.30 H | 159 | 1.61 | 48.59 |
| 6 | 10640.00 | 38.2 AV | 54.0 | -15.8 | 1.30 H | 159 | -10.39 | 48.59 |
| 7 | 15960.00 | 60.5 PK | 74.0 | -13.5 | 1.34 H | 165 | 6.70 | 53.80 |
| 8 | 15960.00 | 48.5 AV | 54.0 | -5.5 | 1.34 H | 165 | -5.30 | 53.80 |
| 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 | *5320.00 | 95.2 PK | | | 1.03 V | 341 | 53.25 | 41.95 |
| 2 | *5320.00 | 85.9 AV | | | 1.03 V | 341 | 43.95 | 41.95 |
| 3 | 5350.00 | 55.4 PK | 74.0 | -18.6 | 1.03 V | 341 | 13.40 | 42.00 |
| 4 | 5350.00 | 42.3 AV | 54.0 | -11.7 | 1.03 V | 341 | 0.30 | 42.00 |
| 5 | 10640.00 | 50.3 PK | 74.0 | -23.7 | 1.26 V | 160 | 1.71 | 48.59 |
| 6 | 10640.00 | 37.8 AV | 54.0 | -16.2 | 1.26 V | 160 | -10.79 | 48.59 |
| 7 | 15960.00 | 59.2 PK | 74.0 | -14.8 | 1.24 V | 83 | 5.40 | 53.80 |
| 8 | 15960.00 | 45.8 AV | 54.0 | -8.2 | 1.24 V | 83 | -8.00 | 53.80 |

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)
– Pre-Amplifier 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) |
| 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 | 70.8 PK | 74.0 | -3.2 | 1.00 H | 270 | 28.44 | 42.36 |
| 2 | 5460.00 | 50.1 AV | 54.0 | -3.9 | 1.00 H | 270 | 7.74 | 42.36 |
| 3 | #5470.00 | 73.5 PK | 74.0 | -0.5 | 1.00 H | 270 | 31.09 | 42.41 |
| 4 | #5470.00 | 52.8 AV | 54.0 | -1.2 | 1.00 H | 270 | 10.39 | 42.41 |
| 5 | *5500.00 | 110.7 PK | | | 1.00 H | 270 | 68.16 | 42.54 |
| 6 | *5500.00 | 102.9 AV | | | 1.00 H | 270 | 60.36 | 42.54 |
| 7 | 11000.00 | 50.3 PK | 74.0 | -23.7 | 1.33 H | 121 | 0.92 | 49.38 |
| 8 | 11000.00 | 38.3 AV | 54.0 | -15.7 | 1.33 H | 121 | -11.08 | 49.38 |
| 9 | #16500.00 | 60.7 PK | 74.0 | -13.3 | 1.32 H | 161 | 5.45 | 55.25 |
| 10 | #16500.00 | 48.8 AV | 54.0 | -5.2 | 1.32 H | 161 | -6.45 | 55.25 |
| 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 | 52.8 PK | 74.0 | -21.2 | 1.07 V | 333 | 10.44 | 42.36 |
| 2 | 5460.00 | 40.2 AV | 54.0 | -13.8 | 1.07 V | 333 | -2.16 | 42.36 |
| 3 | #5470.00 | 54.6 PK | 74.0 | -19.4 | 1.07 V | 333 | 12.19 | 42.41 |
| 4 | #5470.00 | 41.9 AV | 54.0 | -12.1 | 1.07 V | 333 | -0.51 | 42.41 |
| 5 | *5500.00 | 96.9 PK | | | 1.07 V | 333 | 54.36 | 42.54 |
| 6 | *5500.00 | 87.7 AV | | | 1.07 V | 333 | 45.16 | 42.54 |
| 7 | 11000.00 | 50.4 PK | 74.0 | -23.6 | 1.25 V | 178 | 1.02 | 49.38 |
| 8 | 11000.00 | 38.0 AV | 54.0 | -16.0 | 1.25 V | 178 | -11.38 | 49.38 |
| 9 | #16500.00 | 58.9 PK | 74.0 | -15.1 | 1.30 V | 88 | 3.65 | 55.25 |
| 10 | #16500.00 | 45.7 AV | 54.0 | -8.3 | 1.30 V | 88 | -9.55 | 55.25 |

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
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 | #5470.00 | 58.2 PK | 74.0 | -15.8 | 1.40 H | 263 | 15.79 | 42.41 |
| 2 | #5470.00 | 43.8 AV | 54.0 | -10.2 | 1.40 H | 263 | 1.39 | 42.41 |
| 3 | *5580.00 | 115.6 PK | | | 1.40 H | 263 | 72.77 | 42.83 |
| 4 | *5580.00 | 108.0 AV | | | 1.40 H | 263 | 65.17 | 42.83 |
| 5 | #5725.00 | 56.5 PK | 74.0 | -17.5 | 1.40 H | 263 | 13.36 | 43.14 |
| 6 | #5725.00 | 42.9 AV | 54.0 | -11.1 | 1.40 H | 263 | -0.24 | 43.14 |
| 7 | 11160.00 | 54.6 PK | 74.0 | -19.4 | 1.00 H | 56 | 5.37 | 49.23 |
| 8 | 11160.00 | 42.4 AV | 54.0 | -11.6 | 1.00 H | 56 | -6.83 | 49.23 |
| 9 | #16740.00 | 60.3 PK | 74.0 | -13.7 | 1.00 H | 48 | 5.05 | 55.25 |
| 10 | #16740.00 | 47.9 AV | 54.0 | -6.1 | 1.00 H | 48 | -7.35 | 55.25 |
| 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 | #5470.00 | 57.3 PK | 74.0 | -16.7 | 1.01 V | 334 | 14.89 | 42.41 |
| 2 | #5470.00 | 42.9 AV | 54.0 | -11.1 | 1.01 V | 334 | 0.49 | 42.41 |
| 3 | *5580.00 | 101.8 PK | | | 1.01 V | 334 | 58.97 | 42.83 |
| 4 | *5580.00 | 92.2 AV | | | 1.01 V | 334 | 49.37 | 42.83 |
| 5 | #5725.00 | 56.5 PK | 74.0 | -17.5 | 1.01 V | 334 | 13.36 | 43.14 |
| 6 | #5725.00 | 42.8 AV | 54.0 | -11.2 | 1.01 V | 334 | -0.34 | 43.14 |
| 7 | 11160.00 | 49.9 PK | 74.0 | -24.1 | 1.26 V | 176 | 0.67 | 49.23 |
| 8 | 11160.00 | 36.8 AV | 54.0 | -17.2 | 1.26 V | 176 | -12.43 | 49.23 |
| 9 | #16740.00 | 58.1 PK | 74.0 | -15.9 | 1.31 V | 82 | 2.85 | 55.25 |
| 10 | #16740.00 | 44.8 AV | 54.0 | -9.2 | 1.31 V | 82 | -10.45 | 55.25 |

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

| | | | |
|-----------------|----------------|----------------------|--------------|
| CHANNEL | TX Channel 132 | 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 | #5470.00 | 55.8 PK | 74.0 | -18.2 | 1.38 H | 210 | 13.39 | 42.41 |
| 2 | #5470.00 | 42.8 AV | 54.0 | -11.2 | 1.38 H | 210 | 0.39 | 42.41 |
| 3 | *5660.00 | 114.6 PK | | | 1.38 H | 210 | 71.59 | 43.01 |
| 4 | *5660.00 | 106.8 AV | | | 1.38 H | 210 | 63.79 | 43.01 |
| 5 | #5725.00 | 67.4 PK | 74.0 | -6.6 | 1.38 H | 210 | 24.26 | 43.14 |
| 6 | #5725.00 | 46.8 AV | 54.0 | -7.2 | 1.38 H | 210 | 3.66 | 43.14 |
| 7 | 11320.00 | 55.1 PK | 74.0 | -18.9 | 1.00 H | 61 | 5.46 | 49.64 |
| 8 | 11320.00 | 42.6 AV | 54.0 | -11.4 | 1.00 H | 61 | -7.04 | 49.64 |
| 9 | #16980.00 | 60.5 PK | 74.0 | -13.5 | 1.00 H | 31 | 4.67 | 55.83 |
| 10 | #16980.00 | 48.2 AV | 54.0 | -5.8 | 1.00 H | 31 | -7.63 | 55.83 |
| 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 | #5470.00 | 54.9 PK | 74.0 | -19.1 | 1.00 V | 338 | 12.49 | 42.41 |
| 2 | #5470.00 | 42.3 AV | 54.0 | -11.7 | 1.00 V | 338 | -0.11 | 42.41 |
| 3 | *5660.00 | 101.5 PK | | | 1.00 V | 338 | 58.49 | 43.01 |
| 4 | *5660.00 | 91.6 AV | | | 1.00 V | 338 | 48.59 | 43.01 |
| 5 | #5725.00 | 67.5 PK | 74.0 | -6.5 | 1.00 V | 338 | 24.36 | 43.14 |
| 6 | #5725.00 | 46.8 AV | 54.0 | -7.2 | 1.00 V | 338 | 3.66 | 43.14 |
| 7 | 11320.00 | 51.4 PK | 74.0 | -22.6 | 1.18 V | 176 | 1.76 | 49.64 |
| 8 | 11320.00 | 38.4 AV | 54.0 | -15.6 | 1.18 V | 176 | -11.24 | 49.64 |
| 9 | #16980.00 | 58.6 PK | 74.0 | -15.4 | 1.30 V | 102 | 2.77 | 55.83 |
| 10 | #16980.00 | 45.3 AV | 54.0 | -8.7 | 1.30 V | 102 | -10.53 | 55.83 |

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

| | | | |
|-----------------|----------------|----------------------|--------------|
| 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 | 108.2 PK | | | 1.20 H | 263 | 65.12 | 43.08 |
| 2 | *5700.00 | 100.5 AV | | | 1.20 H | 263 | 57.42 | 43.08 |
| 3 | #5725.00 | 73.8 PK | 74.0 | -0.2 | 1.20 H | 263 | 30.66 | 43.14 |
| 4 | #5725.00 | 51.9 AV | 54.0 | -2.1 | 1.20 H | 263 | 8.76 | 43.14 |
| 5 | 11400.00 | 49.6 PK | 74.0 | -24.4 | 1.25 H | 152 | 0.07 | 49.53 |
| 6 | 11400.00 | 38.0 AV | 54.0 | -16.0 | 1.25 H | 152 | -11.53 | 49.53 |
| 7 | #17100.00 | 59.8 PK | 74.0 | -14.2 | 1.27 H | 133 | 4.12 | 55.68 |
| 8 | #17100.00 | 48.5 AV | 54.0 | -5.5 | 1.27 H | 133 | -7.18 | 55.68 |
| 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 | 95.6 PK | | | 1.01 V | 339 | 52.52 | 43.08 |
| 2 | *5700.00 | 85.6 AV | | | 1.01 V | 339 | 42.52 | 43.08 |
| 3 | #5725.00 | 55.7 PK | 74.0 | -18.3 | 1.01 V | 339 | 12.56 | 43.14 |
| 4 | #5725.00 | 42.0 AV | 54.0 | -12.0 | 1.01 V | 339 | -1.14 | 43.14 |
| 5 | 11400.00 | 50.4 PK | 74.0 | -23.6 | 1.22 V | 152 | 0.87 | 49.53 |
| 6 | 11400.00 | 37.5 AV | 54.0 | -16.5 | 1.22 V | 152 | -12.03 | 49.53 |
| 7 | #17100.00 | 57.9 PK | 74.0 | -16.1 | 1.24 V | 91 | 2.22 | 55.68 |
| 8 | #17100.00 | 45.3 AV | 54.0 | -8.7 | 1.24 V | 91 | -10.38 | 55.68 |

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

802.11n (HT20)

| | | | |
|------------------------|---------------|------------------------------|--------------|
| 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 | 5150.00 | 69.8 PK | 74.0 | -4.2 | 1.22 H | 99 | 28.34 | 41.46 |
| 2 | 5150.00 | 49.2 AV | 54.0 | -4.8 | 1.22 H | 99 | 7.74 | 41.46 |
| 3 | *5260.00 | 118.7 PK | | | 1.22 H | 99 | 76.89 | 41.81 |
| 4 | *5260.00 | 109.1 AV | | | 1.22 H | 99 | 67.29 | 41.81 |
| 5 | 5350.00 | 68.5 PK | 74.0 | -5.5 | 1.22 H | 99 | 26.50 | 42.00 |
| 6 | 5350.00 | 46.3 AV | 54.0 | -7.7 | 1.22 H | 99 | 4.30 | 42.00 |
| 7 | #10520.00 | 49.0 PK | 74.0 | -25.0 | 1.19 H | 134 | 0.49 | 48.51 |
| 8 | #10520.00 | 37.5 AV | 54.0 | -16.5 | 1.19 H | 134 | -11.01 | 48.51 |
| 9 | 15780.00 | 60.0 PK | 74.0 | -14.0 | 1.30 H | 118 | 6.26 | 53.74 |
| 10 | 15780.00 | 48.8 AV | 54.0 | -5.2 | 1.30 H | 118 | -4.94 | 53.74 |
| 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 | 69.8 PK | 74.0 | -4.2 | 1.10 V | 360 | 28.34 | 41.46 |
| 2 | 5150.00 | 48.9 AV | 54.0 | -5.1 | 1.10 V | 360 | 7.44 | 41.46 |
| 3 | *5260.00 | 105.4 PK | | | 1.10 V | 360 | 63.59 | 41.81 |
| 4 | *5260.00 | 93.7 AV | | | 1.10 V | 360 | 51.89 | 41.81 |
| 5 | 5350.00 | 68.4 PK | 74.0 | -5.6 | 1.10 V | 360 | 26.40 | 42.00 |
| 6 | 5350.00 | 46.1 AV | 54.0 | -7.9 | 1.10 V | 360 | 4.10 | 42.00 |
| 7 | #10520.00 | 50.6 PK | 74.0 | -23.4 | 1.12 V | 150 | 2.09 | 48.51 |
| 8 | #10520.00 | 37.5 AV | 54.0 | -16.5 | 1.12 V | 150 | -11.01 | 48.51 |
| 9 | 15780.00 | 57.5 PK | 74.0 | -16.5 | 1.22 V | 102 | 3.76 | 53.74 |
| 10 | 15780.00 | 44.8 AV | 54.0 | -9.2 | 1.22 V | 102 | -8.94 | 53.74 |

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
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 | *5300.00 | 115.6 PK | | | 1.22 H | 100 | 73.69 | 41.91 |
| 2 | *5300.00 | 106.0 AV | | | 1.22 H | 100 | 64.09 | 41.91 |
| 3 | 5350.00 | 66.7 PK | 74.0 | -7.3 | 1.22 H | 100 | 24.70 | 42.00 |
| 4 | 5350.00 | 52.1 AV | 54.0 | -1.9 | 1.22 H | 100 | 10.10 | 42.00 |
| 5 | 10600.00 | 49.1 PK | 74.0 | -24.9 | 1.29 H | 142 | 0.69 | 48.41 |
| 6 | 10600.00 | 37.5 AV | 54.0 | -16.5 | 1.29 H | 142 | -10.91 | 48.41 |
| 7 | 15900.00 | 59.7 PK | 74.0 | -14.3 | 1.21 H | 126 | 5.90 | 53.80 |
| 8 | 15900.00 | 48.4 AV | 54.0 | -5.6 | 1.21 H | 126 | -5.40 | 53.80 |
| 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 | *5300.00 | 102.3 PK | | | 1.12 V | 360 | 60.39 | 41.91 |
| 2 | *5300.00 | 90.7 AV | | | 1.12 V | 360 | 48.79 | 41.91 |
| 3 | 5350.00 | 48.8 PK | 74.0 | -25.2 | 1.12 V | 360 | 6.80 | 42.00 |
| 4 | 5350.00 | 42.0 AV | 54.0 | -12.0 | 1.12 V | 360 | 0.00 | 42.00 |
| 5 | 10600.00 | 50.2 PK | 74.0 | -23.8 | 1.09 V | 141 | 1.79 | 48.41 |
| 6 | 10600.00 | 37.3 AV | 54.0 | -16.7 | 1.09 V | 141 | -11.11 | 48.41 |
| 7 | 15900.00 | 58.1 PK | 74.0 | -15.9 | 1.29 V | 85 | 4.30 | 53.80 |
| 8 | 15900.00 | 45.4 AV | 54.0 | -8.6 | 1.29 V | 85 | -8.40 | 53.80 |

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)
– Pre-Amplifier 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 | *5320.00 | 109.1 PK | | | 1.47 H | 218 | 67.15 | 41.95 |
| 2 | *5320.00 | 100.6 AV | | | 1.47 H | 218 | 58.65 | 41.95 |
| 3 | 5350.00 | 73.8 PK | 74.0 | -0.2 | 1.47 H | 218 | 31.80 | 42.00 |
| 4 | 5350.00 | 53.0 AV | 54.0 | -1.0 | 1.47 H | 218 | 11.00 | 42.00 |
| 5 | 10640.00 | 49.9 PK | 74.0 | -24.1 | 1.21 H | 148 | 1.31 | 48.59 |
| 6 | 10640.00 | 38.1 AV | 54.0 | -15.9 | 1.21 H | 148 | -10.49 | 48.59 |
| 7 | 15960.00 | 59.9 PK | 74.0 | -14.1 | 1.31 H | 119 | 6.10 | 53.80 |
| 8 | 15960.00 | 48.4 AV | 54.0 | -5.6 | 1.31 H | 119 | -5.40 | 53.80 |
| 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 | *5320.00 | 96.2 PK | | | 1.06 V | 360 | 54.25 | 41.95 |
| 2 | *5320.00 | 85.5 AV | | | 1.06 V | 360 | 43.55 | 41.95 |
| 3 | 5350.00 | 55.8 PK | 74.0 | -18.2 | 1.06 V | 360 | 13.80 | 42.00 |
| 4 | 5350.00 | 42.9 AV | 54.0 | -11.1 | 1.06 V | 360 | 0.90 | 42.00 |
| 5 | 10640.00 | 50.8 PK | 74.0 | -23.2 | 1.23 V | 152 | 2.21 | 48.59 |
| 6 | 10640.00 | 37.8 AV | 54.0 | -16.2 | 1.23 V | 152 | -10.79 | 48.59 |
| 7 | 15960.00 | 58.5 PK | 74.0 | -15.5 | 1.27 V | 89 | 4.70 | 53.80 |
| 8 | 15960.00 | 45.8 AV | 54.0 | -8.2 | 1.27 V | 89 | -8.00 | 53.80 |

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)
– Pre-Amplifier 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 | 5460.00 | 71.5 PK | 74.0 | -2.5 | 1.49 H | 240 | 29.14 | 42.36 |
| 2 | 5460.00 | 50.1 AV | 54.0 | -3.9 | 1.49 H | 240 | 7.74 | 42.36 |
| 3 | #5470.00 | 73.1 PK | 74.0 | -0.9 | 1.49 H | 240 | 30.69 | 42.41 |
| 4 | #5470.00 | 51.2 AV | 54.0 | -2.8 | 1.49 H | 240 | 8.79 | 42.41 |
| 5 | *5500.00 | 110.1 PK | | | 1.49 H | 240 | 67.56 | 42.54 |
| 6 | *5500.00 | 101.3 AV | | | 1.49 H | 240 | 58.76 | 42.54 |
| 7 | 11000.00 | 49.7 PK | 74.0 | -24.3 | 1.28 H | 142 | 0.32 | 49.38 |
| 8 | 11000.00 | 38.3 AV | 54.0 | -15.7 | 1.28 H | 142 | -11.08 | 49.38 |
| 9 | #16500.00 | 60.2 PK | 74.0 | -13.8 | 1.19 H | 127 | 4.95 | 55.25 |
| 10 | #16500.00 | 48.9 AV | 54.0 | -5.1 | 1.19 H | 127 | -6.35 | 55.25 |
| 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 | 52.9 PK | 74.0 | -21.1 | 1.07 V | 360 | 10.54 | 42.36 |
| 2 | 5460.00 | 40.7 AV | 54.0 | -13.3 | 1.07 V | 360 | -1.66 | 42.36 |
| 3 | #5470.00 | 54.8 PK | 74.0 | -19.2 | 1.07 V | 360 | 12.39 | 42.41 |
| 4 | #5470.00 | 41.2 AV | 54.0 | -12.8 | 1.07 V | 360 | -1.21 | 42.41 |
| 5 | *5500.00 | 97.1 PK | | | 1.07 V | 360 | 54.56 | 42.54 |
| 6 | *5500.00 | 86.2 AV | | | 1.07 V | 360 | 43.66 | 42.54 |
| 7 | 11000.00 | 49.6 PK | 74.0 | -24.4 | 1.23 V | 152 | 0.22 | 49.38 |
| 8 | 11000.00 | 36.9 AV | 54.0 | -17.1 | 1.23 V | 152 | -12.48 | 49.38 |
| 9 | #16500.00 | 58.1 PK | 74.0 | -15.9 | 1.21 V | 106 | 2.85 | 55.25 |
| 10 | #16500.00 | 45.7 AV | 54.0 | -8.3 | 1.21 V | 106 | -9.55 | 55.25 |

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
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 | 5460.00 | 61.3 PK | 74.0 | -12.7 | 1.25 H | 100 | 18.94 | 42.36 |
| 2 | 5460.00 | 43.8 AV | 54.0 | -10.2 | 1.25 H | 100 | 1.44 | 42.36 |
| 3 | #5470.00 | 63.3 PK | 74.0 | -10.7 | 1.25 H | 100 | 20.89 | 42.41 |
| 4 | #5470.00 | 44.2 AV | 54.0 | -9.8 | 1.25 H | 100 | 1.79 | 42.41 |
| 5 | *5580.00 | 118.6 PK | | | 1.25 H | 100 | 75.77 | 42.83 |
| 6 | *5580.00 | 108.7 AV | | | 1.25 H | 100 | 65.87 | 42.83 |
| 7 | 11160.00 | 49.4 PK | 74.0 | -24.6 | 1.28 H | 146 | 0.17 | 49.23 |
| 8 | 11160.00 | 37.7 AV | 54.0 | -16.3 | 1.28 H | 146 | -11.53 | 49.23 |
| 9 | #16740.00 | 59.6 PK | 74.0 | -14.4 | 1.25 H | 125 | 4.35 | 55.25 |
| 10 | #16740.00 | 48.2 AV | 54.0 | -5.8 | 1.25 H | 125 | -7.05 | 55.25 |
| 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 | 61.0 PK | 74.0 | -13.0 | 1.11 V | 360 | 18.64 | 42.36 |
| 2 | 5460.00 | 43.5 AV | 54.0 | -10.5 | 1.11 V | 360 | 1.14 | 42.36 |
| 3 | #5470.00 | 62.5 PK | 74.0 | -11.5 | 1.11 V | 360 | 20.09 | 42.41 |
| 4 | #5470.00 | 43.6 AV | 54.0 | -10.4 | 1.11 V | 360 | 1.19 | 42.41 |
| 5 | *5580.00 | 105.2 PK | | | 1.11 V | 360 | 62.37 | 42.83 |
| 6 | *5580.00 | 93.7 AV | | | 1.11 V | 360 | 50.87 | 42.83 |
| 7 | 11160.00 | 51.0 PK | 74.0 | -23.0 | 1.07 V | 137 | 1.77 | 49.23 |
| 8 | 11160.00 | 37.9 AV | 54.0 | -16.1 | 1.07 V | 137 | -11.33 | 49.23 |
| 9 | #16740.00 | 58.4 PK | 74.0 | -15.6 | 1.21 V | 101 | 3.15 | 55.25 |
| 10 | #16740.00 | 45.6 AV | 54.0 | -8.4 | 1.21 V | 101 | -9.65 | 55.25 |

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



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| | | | |
|-----------------|----------------|----------------------|--------------|
| CHANNEL | TX Channel 132 | 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 | #5470.00 | 63.1 PK | 74.0 | -10.9 | 1.23 H | 99 | 20.69 | 42.41 |
| 2 | #5470.00 | 43.8 AV | 54.0 | -10.2 | 1.23 H | 99 | 1.39 | 42.41 |
| 3 | *5660.00 | 118.8 PK | | | 1.23 H | 99 | 75.79 | 43.01 |
| 4 | *5660.00 | 108.9 AV | | | 1.23 H | 99 | 65.89 | 43.01 |
| 5 | #5733.00 | 65.6 PK | 74.0 | -8.4 | 1.23 H | 99 | 22.44 | 43.16 |
| 6 | #5733.00 | 50.1 AV | 54.0 | -3.9 | 1.23 H | 99 | 6.94 | 43.16 |
| 7 | 11320.00 | 49.4 PK | 74.0 | -24.6 | 1.31 H | 142 | -0.24 | 49.64 |
| 8 | 11320.00 | 38.0 AV | 54.0 | -16.0 | 1.31 H | 142 | -11.64 | 49.64 |
| 9 | #16980.00 | 59.1 PK | 74.0 | -14.9 | 1.18 H | 108 | 3.27 | 55.83 |
| 10 | #16980.00 | 48.1 AV | 54.0 | -5.9 | 1.18 H | 108 | -7.73 | 55.83 |

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 | #5470.00 | 62.4 PK | 74.0 | -11.6 | 1.12 V | 360 | 19.99 | 42.41 |
| 2 | #5470.00 | 43.6 AV | 54.0 | -10.4 | 1.12 V | 360 | 1.19 | 42.41 |
| 3 | *5660.00 | 105.6 PK | | | 1.12 V | 360 | 62.59 | 43.01 |
| 4 | *5660.00 | 93.7 AV | | | 1.12 V | 360 | 50.69 | 43.01 |
| 5 | #5733.00 | 47.6 PK | 74.0 | -26.4 | 1.12 V | 360 | 4.44 | 43.16 |
| 6 | #5733.00 | 39.8 AV | 54.0 | -14.2 | 1.12 V | 360 | -3.36 | 43.16 |
| 7 | 11320.00 | 49.4 PK | 74.0 | -24.6 | 1.17 V | 133 | -0.24 | 49.64 |
| 8 | 11320.00 | 37.0 AV | 54.0 | -17.0 | 1.17 V | 133 | -12.64 | 49.64 |
| 9 | #16980.00 | 58.2 PK | 74.0 | -15.8 | 1.21 V | 76 | 2.37 | 55.83 |
| 10 | #16980.00 | 45.4 AV | 54.0 | -8.6 | 1.21 V | 76 | -10.43 | 55.83 |

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

| | | | |
|------------------------|----------------|------------------------------|--------------|
| 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 | 107.0 PK | | | 1.36 H | 226 | 63.92 | 43.08 |
| 2 | *5700.00 | 99.0 AV | | | 1.36 H | 226 | 55.92 | 43.08 |
| 3 | #5725.00 | 73.7 PK | 74.0 | -0.3 | 1.36 H | 226 | 30.56 | 43.14 |
| 4 | #5725.00 | 50.8 AV | 54.0 | -3.2 | 1.36 H | 226 | 7.66 | 43.14 |
| 5 | 11400.00 | 48.9 PK | 74.0 | -25.1 | 1.29 H | 167 | -0.63 | 49.53 |
| 6 | 11400.00 | 37.7 AV | 54.0 | -16.3 | 1.29 H | 167 | -11.83 | 49.53 |
| 7 | #17100.00 | 59.3 PK | 74.0 | -14.7 | 1.27 H | 131 | 3.62 | 55.68 |
| 8 | #17100.00 | 47.9 AV | 54.0 | -6.1 | 1.27 H | 131 | -7.78 | 55.68 |
| 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 | 93.5 PK | | | 1.17 V | 344 | 50.42 | 43.08 |
| 2 | *5700.00 | 83.7 AV | | | 1.17 V | 344 | 40.62 | 43.08 |
| 3 | #5725.00 | 54.9 PK | 74.0 | -19.1 | 1.17 V | 344 | 11.76 | 43.14 |
| 4 | #5725.00 | 40.2 AV | 54.0 | -13.8 | 1.17 V | 344 | -2.94 | 43.14 |
| 5 | 11400.00 | 50.1 PK | 74.0 | -23.9 | 1.28 V | 150 | 0.57 | 49.53 |
| 6 | 11400.00 | 37.6 AV | 54.0 | -16.4 | 1.28 V | 150 | -11.93 | 49.53 |
| 7 | #17100.00 | 57.7 PK | 74.0 | -16.3 | 1.20 V | 102 | 2.02 | 55.68 |
| 8 | #17100.00 | 45.0 AV | 54.0 | -9.0 | 1.20 V | 102 | -10.68 | 55.68 |

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

802.11n (HT40)

| | | | |
|------------------------|---------------|------------------------------|--------------|
| 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 | *5270.00 | 111.5 PK | | | 1.23 H | 100 | 69.66 | 41.84 |
| 2 | *5270.00 | 103.3 AV | | | 1.23 H | 100 | 61.46 | 41.84 |
| 3 | 5350.00 | 67.3 PK | 74.0 | -6.7 | 1.23 H | 100 | 25.30 | 42.00 |
| 4 | 5350.00 | 53.4 AV | 54.0 | -0.6 | 1.23 H | 100 | 11.40 | 42.00 |
| 5 | #10540.00 | 48.7 PK | 74.0 | -25.3 | 1.30 H | 153 | 0.21 | 48.49 |
| 6 | #10540.00 | 37.5 AV | 54.0 | -16.5 | 1.30 H | 153 | -10.99 | 48.49 |
| 7 | 15810.00 | 59.0 PK | 74.0 | -15.0 | 1.22 H | 133 | 5.19 | 53.81 |
| 8 | 15810.00 | 47.5 AV | 54.0 | -6.5 | 1.22 H | 133 | -6.31 | 53.81 |
| 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 | *5270.00 | 98.7 PK | | | 1.28 V | 349 | 56.86 | 41.84 |
| 2 | *5270.00 | 88.3 AV | | | 1.28 V | 349 | 46.46 | 41.84 |
| 3 | 5350.00 | 50.3 PK | 74.0 | -23.7 | 1.28 V | 349 | 8.30 | 42.00 |
| 4 | 5350.00 | 43.6 AV | 54.0 | -10.4 | 1.28 V | 349 | 1.60 | 42.00 |
| 5 | #10540.00 | 50.7 PK | 74.0 | -23.3 | 1.25 V | 155 | 2.21 | 48.49 |
| 6 | #10540.00 | 38.0 AV | 54.0 | -16.0 | 1.25 V | 155 | -10.49 | 48.49 |
| 7 | 15810.00 | 58.0 PK | 74.0 | -16.0 | 1.25 V | 87 | 4.19 | 53.81 |
| 8 | 15810.00 | 45.2 AV | 54.0 | -8.8 | 1.25 V | 87 | -8.61 | 53.81 |

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Emission Level – Limit value
- " * ": Fundamental frequency.
- " # ": 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 | 102.9 PK | | | 1.19 H | 267 | 60.98 | 41.92 |
| 2 | *5310.00 | 95.1 AV | | | 1.19 H | 267 | 53.18 | 41.92 |
| 3 | 5350.00 | 73.8 PK | 74.0 | -0.2 | 1.19 H | 267 | 31.80 | 42.00 |
| 4 | 5350.00 | 53.9 AV | 54.0 | -0.1 | 1.19 H | 267 | 11.90 | 42.00 |
| 5 | 10620.00 | 48.5 PK | 74.0 | -25.5 | 1.25 H | 179 | 0.00 | 48.50 |
| 6 | 10620.00 | 37.4 AV | 54.0 | -16.6 | 1.25 H | 179 | -11.10 | 48.50 |
| 7 | 15930.00 | 59.1 PK | 74.0 | -14.9 | 1.28 H | 143 | 5.30 | 53.80 |
| 8 | 15930.00 | 47.5 AV | 54.0 | -6.5 | 1.28 H | 143 | -6.30 | 53.80 |
| 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 | *5310.00 | 89.7 PK | | | 1.23 V | 360 | 47.78 | 41.92 |
| 2 | *5310.00 | 79.9 AV | | | 1.23 V | 360 | 37.98 | 41.92 |
| 3 | 5350.00 | 56.4 PK | 74.0 | -17.6 | 1.23 V | 360 | 14.40 | 42.00 |
| 4 | 5350.00 | 43.4 AV | 54.0 | -10.6 | 1.23 V | 360 | 1.40 | 42.00 |
| 5 | 10620.00 | 50.5 PK | 74.0 | -23.5 | 1.25 V | 146 | 2.00 | 48.50 |
| 6 | 10620.00 | 38.0 AV | 54.0 | -16.0 | 1.25 V | 146 | -10.50 | 48.50 |
| 7 | 15930.00 | 57.7 PK | 74.0 | -16.3 | 1.17 V | 109 | 3.90 | 53.80 |
| 8 | 15930.00 | 45.2 AV | 54.0 | -8.8 | 1.17 V | 109 | -8.60 | 53.80 |

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)
– Pre-Amplifier 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 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 | 66.8 PK | 74.0 | -7.2 | 1.19 H | 212 | 24.44 | 42.36 |
| 2 | 5460.00 | 50.8 AV | 54.0 | -3.2 | 1.19 H | 212 | 8.44 | 42.36 |
| 3 | #5470.00 | 70.9 PK | 74.0 | -3.1 | 1.19 H | 212 | 28.49 | 42.41 |
| 4 | #5470.00 | 53.7 AV | 54.0 | -0.3 | 1.19 H | 212 | 11.29 | 42.41 |
| 5 | *5510.00 | 102.6 PK | | | 1.19 H | 212 | 60.03 | 42.57 |
| 6 | *5510.00 | 93.7 AV | | | 1.19 H | 212 | 51.13 | 42.57 |
| 7 | 11020.00 | 49.2 PK | 74.0 | -24.8 | 1.31 H | 158 | -0.15 | 49.35 |
| 8 | 11020.00 | 38.1 AV | 54.0 | -15.9 | 1.31 H | 158 | -11.25 | 49.35 |
| 9 | #16530.00 | 59.8 PK | 74.0 | -14.2 | 1.26 H | 146 | 4.27 | 55.53 |
| 10 | #16530.00 | 48.4 AV | 54.0 | -5.6 | 1.26 H | 146 | -7.13 | 55.53 |
| 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 | 49.7 PK | 74.0 | -24.3 | 1.22 V | 350 | 7.34 | 42.36 |
| 2 | 5460.00 | 40.9 AV | 54.0 | -13.1 | 1.22 V | 350 | -1.46 | 42.36 |
| 3 | #5470.00 | 54.1 PK | 74.0 | -19.9 | 1.22 V | 350 | 11.69 | 42.41 |
| 4 | #5470.00 | 43.8 AV | 54.0 | -10.2 | 1.22 V | 350 | 1.39 | 42.41 |
| 5 | *5510.00 | 89.8 PK | | | 1.22 V | 350 | 47.23 | 42.57 |
| 6 | *5510.00 | 78.7 AV | | | 1.22 V | 350 | 36.13 | 42.57 |
| 7 | 11020.00 | 50.4 PK | 74.0 | -23.6 | 1.31 V | 145 | 1.05 | 49.35 |
| 8 | 11020.00 | 37.7 AV | 54.0 | -16.3 | 1.31 V | 145 | -11.65 | 49.35 |
| 9 | #16530.00 | 57.9 PK | 74.0 | -16.1 | 1.19 V | 109 | 2.37 | 55.53 |
| 10 | #16530.00 | 45.4 AV | 54.0 | -8.6 | 1.19 V | 109 | -10.13 | 55.53 |

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



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| | | | |
|------------------------|----------------|------------------------------|--------------|
| 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 | 5460.00 | 68.8 PK | 74.0 | -5.2 | 1.26 H | 100 | 26.44 | 42.36 |
| 2 | 5460.00 | 50.1 AV | 54.0 | -3.9 | 1.26 H | 100 | 7.74 | 42.36 |
| 3 | #5470.00 | 72.5 PK | 74.0 | -1.5 | 1.26 H | 100 | 30.09 | 42.41 |
| 4 | #5470.00 | 52.2 AV | 54.0 | -1.8 | 1.26 H | 100 | 9.79 | 42.41 |
| 5 | *5550.00 | 111.5 PK | | | 1.26 H | 100 | 68.78 | 42.72 |
| 6 | *5550.00 | 103.2 AV | | | 1.26 H | 100 | 60.48 | 42.72 |
| 7 | 11100.00 | 48.7 PK | 74.0 | -25.3 | 1.32 H | 177 | -0.53 | 49.23 |
| 8 | 11100.00 | 37.4 AV | 54.0 | -16.6 | 1.32 H | 177 | -11.83 | 49.23 |
| 9 | #16650.00 | 59.3 PK | 74.0 | -14.7 | 1.30 H | 133 | 3.57 | 55.73 |
| 10 | #16650.00 | 48.0 AV | 54.0 | -6.0 | 1.30 H | 133 | -7.73 | 55.73 |

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 | 52.4 PK | 74.0 | -21.6 | 1.28 V | 337 | 10.04 | 42.36 |
| 2 | 5460.00 | 40.5 AV | 54.0 | -13.5 | 1.28 V | 337 | -1.86 | 42.36 |
| 3 | #5470.00 | 55.6 PK | 74.0 | -18.4 | 1.28 V | 337 | 13.19 | 42.41 |
| 4 | #5470.00 | 42.6 AV | 54.0 | -11.4 | 1.28 V | 337 | 0.19 | 42.41 |
| 5 | *5550.00 | 98.0 PK | | | 1.28 V | 337 | 55.28 | 42.72 |
| 6 | *5550.00 | 87.7 AV | | | 1.28 V | 337 | 44.98 | 42.72 |
| 7 | 11100.00 | 50.6 PK | 74.0 | -23.4 | 1.29 V | 156 | 1.37 | 49.23 |
| 8 | 11100.00 | 38.1 AV | 54.0 | -15.9 | 1.29 V | 156 | -11.13 | 49.23 |
| 9 | #16650.00 | 57.8 PK | 74.0 | -16.2 | 1.15 V | 98 | 2.07 | 55.73 |
| 10 | #16650.00 | 44.8 AV | 54.0 | -9.2 | 1.15 V | 98 | -10.93 | 55.73 |

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

| | | | |
|------------------------|----------------|------------------------------|--------------|
| 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 | 109.3 PK | | | 1.20 H | 261 | 66.28 | 43.02 |
| 2 | *5670.00 | 99.9 AV | | | 1.20 H | 261 | 56.88 | 43.02 |
| 3 | #5725.00 | 73.2 PK | 74.0 | -0.8 | 1.20 H | 261 | 30.06 | 43.14 |
| 4 | #5725.00 | 52.3 AV | 54.0 | -1.7 | 1.20 H | 261 | 9.16 | 43.14 |
| 5 | 11340.00 | 49.1 PK | 74.0 | -24.9 | 1.25 H | 153 | -0.52 | 49.62 |
| 6 | 11340.00 | 37.7 AV | 54.0 | -16.3 | 1.25 H | 153 | -11.92 | 49.62 |
| 7 | #17010.00 | 59.4 PK | 74.0 | -14.6 | 1.29 H | 131 | 3.50 | 55.90 |
| 8 | #17010.00 | 48.2 AV | 54.0 | -5.8 | 1.29 H | 131 | -7.70 | 55.90 |
| 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 | 96.5 PK | | | 1.31 V | 329 | 53.48 | 43.02 |
| 2 | *5670.00 | 85.2 AV | | | 1.31 V | 329 | 42.18 | 43.02 |
| 3 | #5725.00 | 56.4 PK | 74.0 | -17.6 | 1.31 V | 329 | 13.26 | 43.14 |
| 4 | #5725.00 | 42.7 AV | 54.0 | -11.3 | 1.31 V | 329 | -0.44 | 43.14 |
| 5 | 11340.00 | 49.7 PK | 74.0 | -24.3 | 1.26 V | 138 | 0.08 | 49.62 |
| 6 | 11340.00 | 37.2 AV | 54.0 | -16.8 | 1.26 V | 138 | -12.42 | 49.62 |
| 7 | #17010.00 | 56.9 PK | 74.0 | -17.1 | 1.18 V | 98 | 1.00 | 55.90 |
| 8 | #17010.00 | 44.5 AV | 54.0 | -9.5 | 1.18 V | 98 | -11.40 | 55.90 |

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

4.2.9 TEST RESULTS (MODE 2)

BELOW 1GHz WORST-CASE DATA

802.11n (HT20)

| | | | |
|------------------------|----------------|------------------------------|-----------------|
| CHANNEL | TX Channel 100 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | Below 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 | 94.65 | 35.6 QP | 43.5 | -7.9 | 2.00 H | 32 | 54.46 | -18.83 |
| 2 | 220.82 | 35.2 QP | 46.0 | -10.9 | 1.50 H | 89 | 51.51 | -16.36 |
| 3 | 375.79 | 36.2 QP | 46.0 | -9.9 | 1.00 H | 89 | 46.88 | -10.73 |
| 4 | 601.26 | 35.8 QP | 46.0 | -10.2 | 1.50 H | 27 | 41.24 | -5.40 |
| 5 | 751.43 | 36.5 QP | 46.0 | -9.5 | 1.00 H | 35 | 38.88 | -2.39 |
| 6 | 875.85 | 42.5 QP | 46.0 | -3.5 | 1.00 H | 315 | 43.42 | -0.92 |
| 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 | 89.78 | 37.2 QP | 43.5 | -6.4 | 1.50 V | 324 | 56.33 | -19.18 |
| 2 | 169.73 | 35.6 QP | 43.5 | -7.9 | 1.00 V | 92 | 49.26 | -13.69 |
| 3 | 374.43 | 33.8 QP | 46.0 | -12.3 | 1.50 V | 276 | 44.55 | -10.80 |
| 4 | 499.31 | 36.5 QP | 46.0 | -9.5 | 1.00 V | 292 | 44.27 | -7.77 |
| 5 | 601.42 | 34.7 QP | 46.0 | -11.3 | 2.00 V | 360 | 40.14 | -5.40 |
| 6 | 863.05 | 42.0 QP | 46.0 | -4.0 | 1.00 V | 13 | 43.09 | -1.12 |

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

| | | | |
|------------------------|----------------|------------------------------|-----------------|
| CHANNEL | TX Channel 116 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | Below 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 | 47.65 | 27.3 QP | 40.0 | -12.8 | 2.00 H | 64 | 40.69 | -13.44 |
| 2 | 84.08 | 30.5 QP | 40.0 | -9.5 | 2.00 H | 226 | 49.47 | -18.97 |
| 3 | 151.78 | 35.1 QP | 43.5 | -8.4 | 2.00 H | 188 | 47.97 | -12.91 |
| 4 | 375.02 | 34.8 QP | 46.0 | -11.2 | 2.00 H | 156 | 45.14 | -10.30 |
| 5 | 625.00 | 38.9 QP | 46.0 | -7.1 | 1.50 H | 265 | 43.67 | -4.78 |
| 6 | 875.01 | 39.8 QP | 46.0 | -6.3 | 2.00 H | 18 | 40.57 | -0.82 |
| 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 | 38.22 | 34.2 QP | 40.0 | -5.8 | 1.00 V | 220 | 48.00 | -13.78 |
| 2 | 333.33 | 37.7 QP | 46.0 | -8.3 | 1.45 V | 245 | 48.78 | -11.06 |
| 3 | 466.70 | 36.1 QP | 46.0 | -9.9 | 1.00 V | 23 | 44.35 | -8.21 |
| 4 | 625.00 | 35.1 QP | 46.0 | -11.0 | 1.00 V | 223 | 39.83 | -4.78 |
| 5 | 750.00 | 36.5 QP | 46.0 | -9.5 | 1.00 V | 266 | 39.01 | -2.55 |
| 6 | 875.01 | 39.3 QP | 46.0 | -6.7 | 1.00 V | 249 | 40.12 | -0.82 |

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

| | | | |
|------------------------|----------------|------------------------------|-----------------|
| CHANNEL | TX Channel 140 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | Below 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 | 96.65 | 37.4 QP | 43.5 | -6.1 | 2.00 H | 32 | 56.26 | -18.83 |
| 2 | 218.82 | 36.2 QP | 46.0 | -9.9 | 1.50 H | 89 | 52.63 | -16.48 |
| 3 | 373.79 | 35.2 QP | 46.0 | -10.8 | 1.00 H | 89 | 46.06 | -10.82 |
| 4 | 599.26 | 36.1 QP | 46.0 | -9.9 | 1.50 H | 27 | 41.61 | -5.47 |
| 5 | 749.43 | 37.2 QP | 46.0 | -8.8 | 1.00 H | 35 | 39.70 | -2.51 |
| 6 | 876.15 | 42.3 QP | 46.0 | -3.7 | 1.00 H | 315 | 43.18 | -0.91 |
| 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 | 90.10 | 37.0 QP | 43.5 | -6.5 | 1.50 V | 324 | 56.15 | -19.18 |
| 2 | 171.73 | 37.6 QP | 43.5 | -5.9 | 1.00 V | 92 | 51.51 | -13.94 |
| 3 | 376.43 | 35.0 QP | 46.0 | -11.1 | 1.50 V | 276 | 45.64 | -10.69 |
| 4 | 500.31 | 37.4 QP | 46.0 | -8.6 | 1.00 V | 292 | 45.13 | -7.76 |
| 5 | 599.42 | 35.5 QP | 46.0 | -10.5 | 2.00 V | 360 | 41.01 | -5.47 |
| 6 | 861.05 | 42.3 QP | 46.0 | -3.7 | 1.00 V | 13 | 43.51 | -1.17 |

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

ABOVE 1GHz DATA

802.11a

| | | | |
|------------------------|---------------|------------------------------|--------------|
| 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 | 5100.00 | 60.3 PK | 74.0 | -13.7 | 1.00 H | 151 | 19.05 | 41.25 |
| 2 | 5100.00 | 51.2 AV | 54.0 | -2.8 | 1.00 H | 151 | 9.95 | 41.25 |
| 3 | *5260.00 | 114.3 PK | | | 1.00 H | 151 | 72.49 | 41.81 |
| 4 | *5260.00 | 106.9 AV | | | 1.00 H | 151 | 65.09 | 41.81 |
| 5 | 5419.00 | 63.6 PK | 74.0 | -10.4 | 1.00 H | 151 | 21.42 | 42.18 |
| 6 | 5419.00 | 53.3 AV | 54.0 | -0.7 | 1.00 H | 151 | 11.12 | 42.18 |
| 7 | #10520.00 | 47.8 PK | 74.0 | -26.2 | 1.01 H | 155 | -0.71 | 48.51 |
| 8 | #10520.00 | 35.7 AV | 54.0 | -18.3 | 1.01 H | 155 | -12.81 | 48.51 |
| 9 | 15780.00 | 53.4 PK | 74.0 | -20.6 | 1.17 H | 152 | -0.34 | 53.74 |
| 10 | 15780.00 | 40.7 AV | 54.0 | -13.3 | 1.17 H | 152 | -13.04 | 53.74 |
| 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 | 5100.00 | 58.1 PK | 74.0 | -15.9 | 1.03 V | 308 | 16.85 | 41.25 |
| 2 | 5100.00 | 49.1 AV | 54.0 | -4.9 | 1.03 V | 308 | 7.85 | 41.25 |
| 3 | *5260.00 | 107.8 PK | | | 1.03 V | 308 | 65.99 | 41.81 |
| 4 | *5260.00 | 100.3 AV | | | 1.03 V | 308 | 58.49 | 41.81 |
| 5 | 5419.00 | 61.6 PK | 74.0 | -12.4 | 1.03 V | 308 | 19.42 | 42.18 |
| 6 | 5419.00 | 51.5 AV | 54.0 | -2.5 | 1.03 V | 308 | 9.32 | 42.18 |
| 7 | #10520.00 | 49.9 PK | 74.0 | -24.1 | 1.11 V | 117 | 1.39 | 48.51 |
| 8 | #10520.00 | 37.3 AV | 54.0 | -16.7 | 1.11 V | 117 | -11.21 | 48.51 |
| 9 | 15780.00 | 52.6 PK | 74.0 | -21.4 | 1.26 V | 23 | -1.14 | 53.74 |
| 10 | 15780.00 | 40.5 AV | 54.0 | -13.5 | 1.26 V | 23 | -13.24 | 53.74 |

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Emission Level – Limit value
- " * ": Fundamental frequency.
- " # ": 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 | 5141.00 | 59.7 PK | 74.0 | -14.3 | 1.02 H | 154 | 18.28 | 41.42 |
| 2 | 5141.00 | 49.9 AV | 54.0 | -4.1 | 1.02 H | 154 | 8.48 | 41.42 |
| 3 | *5300.00 | 115.0 PK | | | 1.02 H | 154 | 73.09 | 41.91 |
| 4 | *5300.00 | 107.1 AV | | | 1.02 H | 154 | 65.19 | 41.91 |
| 5 | 5380.00 | 63.1 PK | 74.0 | -10.9 | 1.02 H | 154 | 21.05 | 42.05 |
| 6 | 5380.00 | 53.4 AV | 54.0 | -0.6 | 1.02 H | 154 | 11.35 | 42.05 |
| 7 | 10600.00 | 47.4 PK | 74.0 | -26.6 | 1.07 H | 147 | -1.01 | 48.41 |
| 8 | 10600.00 | 35.2 AV | 54.0 | -18.8 | 1.07 H | 147 | -13.21 | 48.41 |
| 9 | 15900.00 | 53.6 PK | 74.0 | -20.4 | 1.12 H | 158 | -0.20 | 53.80 |
| 10 | 15900.00 | 41.0 AV | 54.0 | -13.0 | 1.12 H | 158 | -12.80 | 53.80 |
| 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 | 5141.00 | 58.3 PK | 74.0 | -15.7 | 1.08 V | 302 | 16.88 | 41.42 |
| 2 | 5141.00 | 48.2 AV | 54.0 | -5.8 | 1.08 V | 302 | 6.78 | 41.42 |
| 3 | *5300.00 | 107.7 PK | | | 1.08 V | 302 | 65.79 | 41.91 |
| 4 | *5300.00 | 99.7 AV | | | 1.08 V | 302 | 57.79 | 41.91 |
| 5 | 5380.00 | 61.4 PK | 74.0 | -12.6 | 1.08 V | 302 | 19.35 | 42.05 |
| 6 | 5380.00 | 51.5 AV | 54.0 | -2.5 | 1.08 V | 302 | 9.45 | 42.05 |
| 7 | 10600.00 | 48.3 PK | 74.0 | -25.7 | 1.10 V | 122 | -0.11 | 48.41 |
| 8 | 10600.00 | 36.1 AV | 54.0 | -17.9 | 1.10 V | 122 | -12.31 | 48.41 |
| 9 | 15900.00 | 52.5 PK | 74.0 | -21.5 | 1.20 V | 9 | -1.30 | 53.80 |
| 10 | 15900.00 | 40.3 AV | 54.0 | -13.7 | 1.20 V | 9 | -13.50 | 53.80 |

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)
– Pre-Amplifier 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 | *5320.00 | 113.9 PK | | | 1.01 H | 151 | 71.95 | 41.95 |
| 2 | *5320.00 | 106.3 AV | | | 1.01 H | 151 | 64.35 | 41.95 |
| 3 | 5350.00 | 67.9 PK | 74.0 | -6.1 | 1.01 H | 151 | 25.90 | 42.00 |
| 4 | 5350.00 | 48.8 AV | 54.0 | -5.2 | 1.01 H | 151 | 6.80 | 42.00 |
| 5 | 5400.00 | 62.8 PK | 74.0 | -11.2 | 1.01 H | 151 | 20.71 | 42.09 |
| 6 | 5400.00 | 53.4 AV | 54.0 | -0.6 | 1.01 H | 151 | 11.31 | 42.09 |
| 7 | 10640.00 | 47.6 PK | 74.0 | -26.4 | 1.00 H | 161 | -0.99 | 48.59 |
| 8 | 10640.00 | 35.5 AV | 54.0 | -18.5 | 1.00 H | 161 | -13.09 | 48.59 |
| 9 | 15960.00 | 54.1 PK | 74.0 | -19.9 | 1.15 H | 150 | 0.30 | 53.80 |
| 10 | 15960.00 | 41.1 AV | 54.0 | -12.9 | 1.15 H | 150 | -12.70 | 53.80 |
| 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 | *5320.00 | 107.5 PK | | | 1.02 V | 294 | 65.55 | 41.95 |
| 2 | *5320.00 | 99.7 AV | | | 1.02 V | 294 | 57.75 | 41.95 |
| 3 | 5350.00 | 64.0 PK | 74.0 | -10.0 | 1.02 V | 294 | 22.00 | 42.00 |
| 4 | 5350.00 | 44.9 AV | 54.0 | -9.1 | 1.02 V | 294 | 2.90 | 42.00 |
| 5 | 5400.00 | 60.6 PK | 74.0 | -13.4 | 1.02 V | 294 | 18.51 | 42.09 |
| 6 | 5400.00 | 51.2 AV | 54.0 | -2.8 | 1.02 V | 294 | 9.11 | 42.09 |
| 7 | 10640.00 | 47.5 PK | 74.0 | -26.5 | 1.08 V | 106 | -1.09 | 48.59 |
| 8 | 10640.00 | 35.4 AV | 54.0 | -18.6 | 1.08 V | 106 | -13.19 | 48.59 |
| 9 | 15960.00 | 52.1 PK | 74.0 | -21.9 | 1.18 V | 3 | -1.70 | 53.80 |
| 10 | 15960.00 | 40.3 AV | 54.0 | -13.7 | 1.18 V | 3 | -13.50 | 53.80 |

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)
– Pre-Amplifier 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 | #5338.00 | 60.6 PK | 74.0 | -13.4 | 1.38 H | 142 | 18.62 | 41.98 |
| 2 | #5338.00 | 50.0 AV | 54.0 | -4.0 | 1.38 H | 142 | 8.02 | 41.98 |
| 3 | 5419.00 | 62.7 PK | 74.0 | -11.3 | 1.38 H | 142 | 20.52 | 42.18 |
| 4 | 5419.00 | 53.2 AV | 54.0 | -0.8 | 1.38 H | 142 | 11.02 | 42.18 |
| 5 | #5470.00 | 55.1 PK | 74.0 | -18.9 | 1.38 H | 142 | 12.69 | 42.41 |
| 6 | #5470.00 | 42.6 AV | 54.0 | -11.4 | 1.38 H | 142 | 0.19 | 42.41 |
| 7 | *5500.00 | 112.1 PK | | | 1.38 H | 142 | 69.56 | 42.54 |
| 8 | *5500.00 | 104.5 AV | | | 1.38 H | 142 | 61.96 | 42.54 |
| 9 | 11000.00 | 48.1 PK | 74.0 | -25.9 | 1.03 H | 161 | -1.28 | 49.38 |
| 10 | 11000.00 | 35.7 AV | 54.0 | -18.3 | 1.03 H | 161 | -13.68 | 49.38 |
| 11 | #16500.00 | 53.4 PK | 74.0 | -20.6 | 1.14 H | 160 | -1.85 | 55.25 |
| 12 | #16500.00 | 40.4 AV | 54.0 | -13.6 | 1.14 H | 160 | -14.85 | 55.25 |
| 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 | #5338.00 | 59.1 PK | 74.0 | -14.9 | 1.04 V | 298 | 17.12 | 41.98 |
| 2 | #5338.00 | 48.0 AV | 54.0 | -6.0 | 1.04 V | 298 | 6.02 | 41.98 |
| 3 | 5419.00 | 60.8 PK | 74.0 | -13.2 | 1.04 V | 298 | 18.62 | 42.18 |
| 4 | 5419.00 | 51.1 AV | 54.0 | -2.9 | 1.04 V | 298 | 8.92 | 42.18 |
| 5 | #5470.00 | 53.5 PK | 74.0 | -20.5 | 1.04 V | 298 | 11.09 | 42.41 |
| 6 | #5470.00 | 41.0 AV | 54.0 | -13.0 | 1.04 V | 298 | -1.41 | 42.41 |
| 7 | *5500.00 | 105.0 PK | | | 1.04 V | 298 | 62.46 | 42.54 |
| 8 | *5500.00 | 97.5 AV | | | 1.04 V | 298 | 54.96 | 42.54 |
| 9 | 11000.00 | 47.8 PK | 74.0 | -26.2 | 1.07 V | 131 | -1.58 | 49.38 |
| 10 | 11000.00 | 35.5 AV | 54.0 | -18.5 | 1.07 V | 131 | -13.88 | 49.38 |
| 11 | #16500.00 | 56.9 PK | 74.0 | -17.1 | 1.00 V | 130 | 1.65 | 55.25 |
| 12 | #16500.00 | 44.3 AV | 54.0 | -9.7 | 1.00 V | 130 | -10.95 | 55.25 |

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
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 | 5116.00 | 58.8 PK | 74.0 | -15.2 | 1.37 H | 136 | 17.48 | 41.32 |
| 2 | 5116.00 | 49.0 AV | 54.0 | -5.0 | 1.37 H | 136 | 7.68 | 41.32 |
| 3 | 5418.00 | 60.8 PK | 74.0 | -13.2 | 1.37 H | 136 | 18.63 | 42.17 |
| 4 | 5418.00 | 50.3 AV | 54.0 | -3.7 | 1.37 H | 136 | 8.13 | 42.17 |
| 5 | *5580.00 | 115.8 PK | | | 1.37 H | 136 | 72.97 | 42.83 |
| 6 | *5580.00 | 108.6 AV | | | 1.37 H | 136 | 65.77 | 42.83 |
| 7 | #5739.00 | 63.1 PK | 74.0 | -10.9 | 1.37 H | 136 | 19.91 | 43.19 |
| 8 | #5739.00 | 53.2 AV | 54.0 | -0.8 | 1.37 H | 136 | 10.01 | 43.19 |
| 9 | 11160.00 | 47.2 PK | 74.0 | -26.8 | 1.00 H | 160 | -2.03 | 49.23 |
| 10 | 11160.00 | 35.1 AV | 54.0 | -18.9 | 1.00 H | 160 | -14.13 | 49.23 |
| 11 | #16740.00 | 54.1 PK | 74.0 | -19.9 | 1.15 H | 173 | -1.15 | 55.25 |
| 12 | #16740.00 | 41.1 AV | 54.0 | -12.9 | 1.15 H | 173 | -14.15 | 55.25 |
| 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 | 5116.00 | 56.9 PK | 74.0 | -17.1 | 1.00 V | 301 | 15.58 | 41.32 |
| 2 | 5116.00 | 47.1 AV | 54.0 | -6.9 | 1.00 V | 301 | 5.78 | 41.32 |
| 3 | 5418.00 | 58.4 PK | 74.0 | -15.6 | 1.00 V | 301 | 16.23 | 42.17 |
| 4 | 5418.00 | 47.9 AV | 54.0 | -6.1 | 1.00 V | 301 | 5.73 | 42.17 |
| 5 | *5580.00 | 109.3 PK | | | 1.00 V | 301 | 66.47 | 42.83 |
| 6 | *5580.00 | 101.8 AV | | | 1.00 V | 301 | 58.97 | 42.83 |
| 7 | #5739.00 | 61.2 PK | 74.0 | -12.8 | 1.00 V | 301 | 18.01 | 43.19 |
| 8 | #5739.00 | 51.5 AV | 54.0 | -2.5 | 1.00 V | 301 | 8.31 | 43.19 |
| 9 | 11160.00 | 52.2 PK | 74.0 | -21.8 | 1.00 V | 73 | 2.97 | 49.23 |
| 10 | 11160.00 | 39.4 AV | 54.0 | -14.6 | 1.00 V | 73 | -9.83 | 49.23 |
| 11 | #16740.00 | 56.0 PK | 74.0 | -18.0 | 1.00 V | 143 | 0.75 | 55.25 |
| 12 | #16740.00 | 43.5 AV | 54.0 | -10.5 | 1.00 V | 143 | -11.75 | 55.25 |

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



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| | | | |
|------------------------|----------------|------------------------------|--------------|
| CHANNEL | TX Channel 132 | 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 | #5189.00 | 60.3 PK | 74.0 | -13.7 | 1.14 H | 132 | 18.68 | 41.62 |
| 2 | #5189.00 | 50.3 AV | 54.0 | -3.7 | 1.14 H | 132 | 8.68 | 41.62 |
| 3 | 5418.00 | 61.9 PK | 74.0 | -12.1 | 1.14 H | 132 | 19.73 | 42.17 |
| 4 | 5418.00 | 51.5 AV | 54.0 | -2.5 | 1.14 H | 132 | 9.33 | 42.17 |
| 5 | *5660.00 | 112.3 PK | | | 1.14 H | 132 | 69.29 | 43.01 |
| 6 | *5660.00 | 103.7 AV | | | 1.14 H | 132 | 60.69 | 43.01 |
| 7 | #5739.00 | 63.4 PK | 74.0 | -10.6 | 1.14 H | 132 | 20.21 | 43.19 |
| 8 | #5739.00 | 53.1 AV | 54.0 | -0.9 | 1.14 H | 132 | 9.91 | 43.19 |
| 9 | 11320.00 | 47.6 PK | 74.0 | -26.4 | 1.00 H | 168 | -2.04 | 49.64 |
| 10 | 11320.00 | 35.2 AV | 54.0 | -18.8 | 1.00 H | 168 | -14.44 | 49.64 |
| 11 | #16980.00 | 53.5 PK | 74.0 | -20.5 | 1.13 H | 158 | -2.33 | 55.83 |
| 12 | #16980.00 | 40.6 AV | 54.0 | -13.4 | 1.13 H | 158 | -15.23 | 55.83 |

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 | #5189.00 | 58.0 PK | 74.0 | -16.0 | 1.00 V | 299 | 16.38 | 41.62 |
| 2 | #5189.00 | 48.2 AV | 54.0 | -5.8 | 1.00 V | 299 | 6.58 | 41.62 |
| 3 | 5418.00 | 59.9 PK | 74.0 | -14.1 | 1.00 V | 299 | 17.73 | 42.17 |
| 4 | 5418.00 | 49.3 AV | 54.0 | -4.7 | 1.00 V | 299 | 7.13 | 42.17 |
| 5 | *5660.00 | 105.4 PK | | | 1.00 V | 299 | 62.39 | 43.01 |
| 6 | *5660.00 | 96.9 AV | | | 1.00 V | 299 | 53.89 | 43.01 |
| 7 | #5739.00 | 61.5 PK | 74.0 | -12.5 | 1.00 V | 299 | 18.31 | 43.19 |
| 8 | #5739.00 | 51.0 AV | 54.0 | -3.0 | 1.00 V | 299 | 7.81 | 43.19 |
| 9 | 11320.00 | 50.1 PK | 74.0 | -23.9 | 1.02 V | 77 | 0.46 | 49.64 |
| 10 | 11320.00 | 37.2 AV | 54.0 | -16.8 | 1.02 V | 77 | -12.44 | 49.64 |
| 11 | #16980.00 | 56.7 PK | 74.0 | -17.3 | 1.01 V | 129 | 0.87 | 55.83 |
| 12 | #16980.00 | 43.8 AV | 54.0 | -10.2 | 1.01 V | 129 | -12.03 | 55.83 |

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



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| | | | |
|------------------------|----------------|------------------------------|--------------|
| 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 | 112.0 PK | | | 1.14 H | 34 | 68.92 | 43.08 |
| 2 | *5700.00 | 104.1 AV | | | 1.14 H | 34 | 61.02 | 43.08 |
| 3 | #5725.00 | 57.5 PK | 74.0 | -16.5 | 1.14 H | 34 | 14.36 | 43.14 |
| 4 | #5725.00 | 43.9 AV | 54.0 | -10.1 | 1.14 H | 34 | 0.76 | 43.14 |
| 5 | #5785.00 | 62.6 PK | 74.0 | -11.4 | 1.14 H | 34 | 19.30 | 43.30 |
| 6 | #5785.00 | 53.1 AV | 54.0 | -0.9 | 1.14 H | 34 | 9.80 | 43.30 |
| 7 | #5861.00 | 62.2 PK | 74.0 | -11.8 | 1.14 H | 34 | 18.58 | 43.62 |
| 8 | #5861.00 | 52.9 AV | 54.0 | -1.1 | 1.14 H | 34 | 9.28 | 43.62 |
| 9 | 11400.00 | 47.7 PK | 74.0 | -26.3 | 1.01 H | 151 | -1.83 | 49.53 |
| 10 | 11400.00 | 35.6 AV | 54.0 | -18.4 | 1.01 H | 151 | -13.93 | 49.53 |
| 11 | #17100.00 | 53.4 PK | 74.0 | -20.6 | 1.11 H | 175 | -2.28 | 55.68 |
| 12 | #17100.00 | 40.6 AV | 54.0 | -13.4 | 1.11 H | 175 | -15.08 | 55.68 |
| 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 | 104.7 PK | | | 1.02 V | 307 | 61.62 | 43.08 |
| 2 | *5700.00 | 96.6 AV | | | 1.02 V | 307 | 53.52 | 43.08 |
| 3 | #5725.00 | 55.2 PK | 74.0 | -18.8 | 1.02 V | 307 | 12.06 | 43.14 |
| 4 | #5725.00 | 41.4 AV | 54.0 | -12.6 | 1.02 V | 307 | -1.74 | 43.14 |
| 5 | #5785.00 | 60.5 PK | 74.0 | -13.5 | 1.02 V | 307 | 17.20 | 43.30 |
| 6 | #5785.00 | 51.2 AV | 54.0 | -2.8 | 1.02 V | 307 | 7.90 | 43.30 |
| 7 | #5861.00 | 60.3 PK | 74.0 | -13.7 | 1.02 V | 307 | 16.68 | 43.62 |
| 8 | #5861.00 | 51.2 AV | 54.0 | -2.8 | 1.02 V | 307 | 7.58 | 43.62 |
| 9 | 11400.00 | 51.3 PK | 74.0 | -22.7 | 1.05 V | 87 | 1.77 | 49.53 |
| 10 | 11400.00 | 38.6 AV | 54.0 | -15.4 | 1.05 V | 87 | -10.93 | 49.53 |
| 11 | #17100.00 | 56.1 PK | 74.0 | -17.9 | 1.03 V | 116 | 0.42 | 55.68 |
| 12 | #17100.00 | 43.8 AV | 54.0 | -10.2 | 1.03 V | 116 | -11.88 | 55.68 |

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

802.11n (HT20)

| | | | |
|------------------------|---------------|------------------------------|--------------|
| 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 | *5260.00 | 117.9 PK | | | 1.04 H | 156 | 76.09 | 41.81 |
| 2 | *5260.00 | 107.5 AV | | | 1.04 H | 156 | 65.69 | 41.81 |
| 3 | 5418.00 | 65.2 PK | 74.0 | -8.8 | 1.04 H | 156 | 23.03 | 42.17 |
| 4 | 5418.00 | 53.4 AV | 54.0 | -0.6 | 1.04 H | 156 | 11.23 | 42.17 |
| 5 | #10520.00 | 47.6 PK | 74.0 | -26.4 | 1.05 H | 139 | -0.91 | 48.51 |
| 6 | #10520.00 | 35.3 AV | 54.0 | -18.7 | 1.05 H | 139 | -13.21 | 48.51 |
| 7 | 15780.00 | 53.7 PK | 74.0 | -20.3 | 1.13 H | 186 | -0.04 | 53.74 |
| 8 | 15780.00 | 41.0 AV | 54.0 | -13.0 | 1.13 H | 186 | -12.74 | 53.74 |
| 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 | *5260.00 | 111.1 PK | | | 1.09 V | 300 | 69.29 | 41.81 |
| 2 | *5260.00 | 100.8 AV | | | 1.09 V | 300 | 58.99 | 41.81 |
| 3 | 5418.00 | 61.3 PK | 74.0 | -12.7 | 1.09 V | 300 | 19.13 | 42.17 |
| 4 | 5418.00 | 49.6 AV | 54.0 | -4.4 | 1.09 V | 300 | 7.43 | 42.17 |
| 5 | #10520.00 | 52.2 PK | 74.0 | -21.8 | 1.05 V | 129 | 3.69 | 48.51 |
| 6 | #10520.00 | 39.0 AV | 54.0 | -15.0 | 1.05 V | 129 | -9.51 | 48.51 |
| 7 | 15780.00 | 53.8 PK | 74.0 | -20.2 | 1.26 V | 49 | 0.06 | 53.74 |
| 8 | 15780.00 | 41.3 AV | 54.0 | -12.7 | 1.26 V | 49 | -12.44 | 53.74 |

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
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 | 5141.00 | 61.0 PK | 74.0 | -13.0 | 1.04 H | 154 | 19.58 | 41.42 |
| 2 | 5141.00 | 48.8 AV | 54.0 | -5.2 | 1.04 H | 154 | 7.38 | 41.42 |
| 3 | *5300.00 | 115.4 PK | | | 1.04 H | 154 | 73.49 | 41.91 |
| 4 | *5300.00 | 103.6 AV | | | 1.04 H | 154 | 61.69 | 41.91 |
| 5 | 5378.00 | 65.4 PK | 74.0 | -8.6 | 1.04 H | 154 | 23.35 | 42.05 |
| 6 | 5378.00 | 53.5 AV | 54.0 | -0.5 | 1.04 H | 154 | 11.45 | 42.05 |
| 7 | 10600.00 | 47.7 PK | 74.0 | -26.3 | 1.03 H | 166 | -0.71 | 48.41 |
| 8 | 10600.00 | 35.4 AV | 54.0 | -18.6 | 1.03 H | 166 | -13.01 | 48.41 |
| 9 | 15900.00 | 53.6 PK | 74.0 | -20.4 | 1.07 H | 169 | -0.20 | 53.80 |
| 10 | 15900.00 | 41.0 AV | 54.0 | -13.0 | 1.07 H | 169 | -12.80 | 53.80 |
| 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 | 5141.00 | 56.6 PK | 74.0 | -17.4 | 1.06 V | 293 | 15.18 | 41.42 |
| 2 | 5141.00 | 44.7 AV | 54.0 | -9.3 | 1.06 V | 293 | 3.28 | 41.42 |
| 3 | *5300.00 | 108.2 PK | | | 1.06 V | 293 | 66.29 | 41.91 |
| 4 | *5300.00 | 96.7 AV | | | 1.06 V | 293 | 54.79 | 41.91 |
| 5 | 5378.00 | 61.8 PK | 74.0 | -12.2 | 1.06 V | 293 | 19.75 | 42.05 |
| 6 | 5378.00 | 49.9 AV | 54.0 | -4.1 | 1.06 V | 293 | 7.85 | 42.05 |
| 7 | 10600.00 | 50.6 PK | 74.0 | -23.4 | 1.00 V | 111 | 2.19 | 48.41 |
| 8 | 10600.00 | 37.1 AV | 54.0 | -16.9 | 1.00 V | 111 | -11.31 | 48.41 |
| 9 | 15900.00 | 53.6 PK | 74.0 | -20.4 | 1.25 V | 51 | -0.20 | 53.80 |
| 10 | 15900.00 | 41.2 AV | 54.0 | -12.8 | 1.25 V | 51 | -12.60 | 53.80 |

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)
– Pre-Amplifier 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 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 | *5320.00 | 114.7 PK | | | 1.01 H | 152 | 72.75 | 41.95 |
| 2 | *5320.00 | 103.1 AV | | | 1.01 H | 152 | 61.15 | 41.95 |
| 3 | 5350.00 | 68.1 PK | 74.0 | -5.9 | 1.01 H | 152 | 26.10 | 42.00 |
| 4 | 5350.00 | 49.1 AV | 54.0 | -4.9 | 1.01 H | 152 | 7.10 | 42.00 |
| 5 | 5400.00 | 65.4 PK | 74.0 | -8.6 | 1.01 H | 152 | 23.31 | 42.09 |
| 6 | 5400.00 | 53.5 AV | 54.0 | -0.5 | 1.01 H | 152 | 11.41 | 42.09 |
| 7 | 10640.00 | 47.5 PK | 74.0 | -26.5 | 1.00 H | 148 | -1.09 | 48.59 |
| 8 | 10640.00 | 35.3 AV | 54.0 | -18.7 | 1.00 H | 148 | -13.29 | 48.59 |
| 9 | 15960.00 | 53.4 PK | 74.0 | -20.6 | 1.12 H | 171 | -0.40 | 53.80 |
| 10 | 15960.00 | 40.4 AV | 54.0 | -13.6 | 1.12 H | 171 | -13.40 | 53.80 |

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 | *5320.00 | 107.5 PK | | | 1.07 V | 291 | 65.55 | 41.95 |
| 2 | *5320.00 | 95.8 AV | | | 1.07 V | 291 | 53.85 | 41.95 |
| 3 | 5350.00 | 63.7 PK | 74.0 | -10.3 | 1.07 V | 291 | 21.70 | 42.00 |
| 4 | 5350.00 | 45.0 AV | 54.0 | -9.0 | 1.07 V | 291 | 3.00 | 42.00 |
| 5 | 5400.00 | 61.1 PK | 74.0 | -12.9 | 1.07 V | 291 | 19.01 | 42.09 |
| 6 | 5400.00 | 49.2 AV | 54.0 | -4.8 | 1.07 V | 291 | 7.11 | 42.09 |
| 7 | 10640.00 | 50.8 PK | 74.0 | -23.2 | 1.00 V | 101 | 2.21 | 48.59 |
| 8 | 10640.00 | 37.6 AV | 54.0 | -16.4 | 1.00 V | 101 | -10.99 | 48.59 |
| 9 | 15960.00 | 53.3 PK | 74.0 | -20.7 | 1.21 V | 58 | -0.50 | 53.80 |
| 10 | 15960.00 | 41.4 AV | 54.0 | -12.6 | 1.21 V | 58 | -12.40 | 53.80 |

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)
– Pre-Amplifier 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 | #5339.00 | 62.1 PK | 74.0 | -11.9 | 1.02 H | 154 | 20.12 | 41.98 |
| 2 | #5339.00 | 50.0 AV | 54.0 | -4.0 | 1.02 H | 154 | 8.02 | 41.98 |
| 3 | 5419.00 | 65.4 PK | 74.0 | -8.6 | 1.02 H | 154 | 23.18 | 42.18 |
| 4 | 5419.00 | 53.3 AV | 54.0 | -0.7 | 1.02 H | 154 | 11.12 | 42.18 |
| 5 | #5470.00 | 58.7 PK | 74.0 | -15.3 | 1.02 H | 154 | 16.29 | 42.41 |
| 6 | #5470.00 | 45.7 AV | 54.0 | -8.3 | 1.02 H | 154 | 3.29 | 42.41 |
| 7 | *5500.00 | 113.6 PK | | | 1.02 H | 154 | 71.06 | 42.54 |
| 8 | *5500.00 | 102.1 AV | | | 1.02 H | 154 | 59.56 | 42.54 |
| 9 | 11000.00 | 48.2 PK | 74.0 | -25.8 | 1.02 H | 153 | -1.18 | 49.38 |
| 10 | 11000.00 | 35.8 AV | 54.0 | -18.2 | 1.02 H | 153 | -13.58 | 49.38 |
| 11 | #16500.00 | 53.4 PK | 74.0 | -20.6 | 1.13 H | 172 | -1.85 | 55.25 |
| 12 | #16500.00 | 40.7 AV | 54.0 | -13.3 | 1.13 H | 172 | -14.55 | 55.25 |

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 | 5419.00 | 61.3 PK | 74.0 | -12.7 | 1.10 V | 286 | 19.12 | 42.18 |
| 2 | 5419.00 | 49.1 AV | 54.0 | -4.9 | 1.10 V | 286 | 6.92 | 42.18 |
| 3 | 5460.00 | 58.2 PK | 74.0 | -15.8 | 1.10 V | 286 | 15.84 | 42.36 |
| 4 | 5460.00 | 46.1 AV | 54.0 | -7.9 | 1.10 V | 286 | 3.74 | 42.36 |
| 5 | #5470.00 | 54.9 PK | 74.0 | -19.1 | 1.10 V | 286 | 12.49 | 42.41 |
| 6 | #5470.00 | 41.8 AV | 54.0 | -12.2 | 1.10 V | 286 | -0.61 | 42.41 |
| 7 | *5500.00 | 106.9 PK | | | 1.10 V | 286 | 64.36 | 42.54 |
| 8 | *5500.00 | 95.2 AV | | | 1.10 V | 286 | 52.66 | 42.54 |
| 9 | 11000.00 | 55.5 PK | 74.0 | -18.5 | 1.00 V | 75 | 6.12 | 49.38 |
| 10 | 11000.00 | 41.1 AV | 54.0 | -12.9 | 1.00 V | 75 | -8.28 | 49.38 |
| 11 | #16500.00 | 57.6 PK | 74.0 | -16.4 | 1.07 V | 118 | 2.35 | 55.25 |
| 12 | #16500.00 | 44.6 AV | 54.0 | -9.4 | 1.07 V | 118 | -10.65 | 55.25 |

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
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 | 5116.00 | 60.3 PK | 74.0 | -13.7 | 1.32 H | 154 | 18.98 | 41.32 |
| 2 | 5116.00 | 47.8 AV | 54.0 | -6.2 | 1.32 H | 154 | 6.48 | 41.32 |
| 3 | 5418.00 | 64.5 PK | 74.0 | -9.5 | 1.32 H | 154 | 22.33 | 42.17 |
| 4 | 5418.00 | 53.3 AV | 54.0 | -0.7 | 1.32 H | 154 | 11.13 | 42.17 |
| 5 | *5580.00 | 117.6 PK | | | 1.32 H | 154 | 74.77 | 42.83 |
| 6 | *5580.00 | 104.9 AV | | | 1.32 H | 154 | 62.07 | 42.83 |
| 7 | #5741.00 | 64.3 PK | 74.0 | -9.7 | 1.32 H | 154 | 21.11 | 43.19 |
| 8 | #5741.00 | 51.6 AV | 54.0 | -2.4 | 1.32 H | 154 | 8.41 | 43.19 |
| 9 | 11160.00 | 47.3 PK | 74.0 | -26.7 | 1.00 H | 166 | -1.93 | 49.23 |
| 10 | 11160.00 | 35.3 AV | 54.0 | -18.7 | 1.00 H | 166 | -13.93 | 49.23 |
| 11 | #16740.00 | 52.9 PK | 74.0 | -21.1 | 1.09 H | 171 | -2.35 | 55.25 |
| 12 | #16740.00 | 40.4 AV | 54.0 | -13.6 | 1.09 H | 171 | -14.85 | 55.25 |
| 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 | 5116.00 | 55.9 PK | 74.0 | -18.1 | 1.07 V | 274 | 14.58 | 41.32 |
| 2 | 5116.00 | 43.4 AV | 54.0 | -10.6 | 1.07 V | 274 | 2.08 | 41.32 |
| 3 | 5418.00 | 60.4 PK | 74.0 | -13.6 | 1.07 V | 274 | 18.23 | 42.17 |
| 4 | 5418.00 | 49.4 AV | 54.0 | -4.6 | 1.07 V | 274 | 7.23 | 42.17 |
| 5 | *5580.00 | 110.2 PK | | | 1.07 V | 274 | 67.37 | 42.83 |
| 6 | *5580.00 | 97.7 AV | | | 1.07 V | 274 | 54.87 | 42.83 |
| 7 | #5741.00 | 61.0 PK | 74.0 | -13.0 | 1.07 V | 274 | 17.81 | 43.19 |
| 8 | #5741.00 | 48.0 AV | 54.0 | -6.0 | 1.07 V | 274 | 4.81 | 43.19 |
| 9 | 11160.00 | 57.2 PK | 74.0 | -16.8 | 1.00 V | 73 | 7.97 | 49.23 |
| 10 | 11160.00 | 44.0 AV | 54.0 | -10.0 | 1.00 V | 73 | -5.23 | 49.23 |
| 11 | #16740.00 | 57.0 PK | 74.0 | -17.0 | 1.06 V | 132 | 1.75 | 55.25 |
| 12 | #16740.00 | 44.3 AV | 54.0 | -9.7 | 1.06 V | 132 | -10.95 | 55.25 |

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



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| | | | |
|-----------------|----------------|----------------------|--------------|
| CHANNEL | TX Channel 132 | 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 | #5189.00 | 58.3 PK | 74.0 | -15.7 | 1.28 H | 153 | 16.68 | 41.62 |
| 2 | #5189.00 | 46.9 AV | 54.0 | -7.1 | 1.28 H | 153 | 5.28 | 41.62 |
| 3 | 5418.00 | 58.7 PK | 74.0 | -15.3 | 1.28 H | 153 | 16.53 | 42.17 |
| 4 | 5418.00 | 46.5 AV | 54.0 | -7.5 | 1.28 H | 153 | 4.33 | 42.17 |
| 5 | *5660.00 | 115.6 PK | | | 1.28 H | 153 | 72.59 | 43.01 |
| 6 | *5660.00 | 102.6 AV | | | 1.28 H | 153 | 59.59 | 43.01 |
| 7 | #5739.00 | 67.6 PK | 74.0 | -6.4 | 1.28 H | 153 | 24.41 | 43.19 |
| 8 | #5739.00 | 53.5 AV | 54.0 | -0.5 | 1.28 H | 153 | 10.31 | 43.19 |
| 9 | 11320.00 | 47.2 PK | 74.0 | -26.8 | 1.00 H | 144 | -2.44 | 49.64 |
| 10 | 11320.00 | 35.3 AV | 54.0 | -18.7 | 1.00 H | 144 | -14.34 | 49.64 |
| 11 | #16980.00 | 53.6 PK | 74.0 | -20.4 | 1.16 H | 172 | -2.23 | 55.83 |
| 12 | #16980.00 | 40.7 AV | 54.0 | -13.3 | 1.16 H | 172 | -15.13 | 55.83 |

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 | #5189.00 | 54.6 PK | 74.0 | -19.4 | 1.02 V | 278 | 12.98 | 41.62 |
| 2 | #5189.00 | 43.0 AV | 54.0 | -11.0 | 1.02 V | 278 | 1.38 | 41.62 |
| 3 | 5418.00 | 55.0 PK | 74.0 | -19.0 | 1.02 V | 278 | 12.83 | 42.17 |
| 4 | 5418.00 | 42.9 AV | 54.0 | -11.1 | 1.02 V | 278 | 0.73 | 42.17 |
| 5 | *5660.00 | 109.2 PK | | | 1.02 V | 278 | 66.19 | 43.01 |
| 6 | *5660.00 | 96.1 AV | | | 1.02 V | 278 | 53.09 | 43.01 |
| 7 | #5739.00 | 63.8 PK | 74.0 | -10.2 | 1.02 V | 278 | 20.61 | 43.19 |
| 8 | #5739.00 | 49.6 AV | 54.0 | -4.4 | 1.02 V | 278 | 6.41 | 43.19 |
| 9 | 11320.00 | 56.5 PK | 74.0 | -17.5 | 1.00 V | 68 | 6.86 | 49.64 |
| 10 | 11320.00 | 43.2 AV | 54.0 | -10.8 | 1.00 V | 68 | -6.44 | 49.64 |
| 11 | #16980.00 | 57.4 PK | 74.0 | -16.6 | 1.09 V | 144 | 1.57 | 55.83 |
| 12 | #16980.00 | 44.3 AV | 54.0 | -9.7 | 1.09 V | 144 | -11.53 | 55.83 |

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



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|-----------------|----------------|----------------------|--------------|
| 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 | 113.8 PK | | | 1.27 H | 160 | 70.72 | 43.08 |
| 2 | *5700.00 | 101.1 AV | | | 1.27 H | 160 | 58.02 | 43.08 |
| 3 | #5725.00 | 64.4 PK | 74.0 | -9.6 | 1.27 H | 160 | 21.26 | 43.14 |
| 4 | #5725.00 | 48.1 AV | 54.0 | -5.9 | 1.27 H | 160 | 4.96 | 43.14 |
| 5 | #5785.00 | 64.8 PK | 74.0 | -9.2 | 1.27 H | 160 | 21.50 | 43.30 |
| 6 | #5785.00 | 52.9 AV | 54.0 | -1.1 | 1.27 H | 160 | 9.60 | 43.30 |
| 7 | #5861.00 | 65.0 PK | 74.0 | -9.0 | 1.27 H | 160 | 21.38 | 43.62 |
| 8 | #5861.00 | 53.5 AV | 54.0 | -0.5 | 1.27 H | 160 | 9.88 | 43.62 |
| 9 | 11400.00 | 47.7 PK | 74.0 | -26.3 | 1.00 H | 156 | -1.83 | 49.53 |
| 10 | 11400.00 | 35.9 AV | 54.0 | -18.1 | 1.00 H | 156 | -13.63 | 49.53 |
| 11 | #17100.00 | 52.9 PK | 74.0 | -21.1 | 1.12 H | 163 | -2.78 | 55.68 |
| 12 | #17100.00 | 40.1 AV | 54.0 | -13.9 | 1.12 H | 163 | -15.58 | 55.68 |
| 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 | 106.9 PK | | | 1.06 V | 284 | 63.82 | 43.08 |
| 2 | *5700.00 | 94.3 AV | | | 1.06 V | 284 | 51.22 | 43.08 |
| 3 | #5725.00 | 60.3 PK | 74.0 | -13.7 | 1.06 V | 284 | 17.16 | 43.14 |
| 4 | #5725.00 | 43.8 AV | 54.0 | -10.2 | 1.06 V | 284 | 0.66 | 43.14 |
| 5 | #5785.00 | 60.3 PK | 74.0 | -13.7 | 1.06 V | 284 | 17.00 | 43.30 |
| 6 | #5785.00 | 48.5 AV | 54.0 | -5.5 | 1.06 V | 284 | 5.20 | 43.30 |
| 7 | #5861.00 | 61.0 PK | 74.0 | -13.0 | 1.06 V | 284 | 17.38 | 43.62 |
| 8 | #5861.00 | 49.4 AV | 54.0 | -4.6 | 1.06 V | 284 | 5.78 | 43.62 |
| 9 | 11400.00 | 56.7 PK | 74.0 | -17.3 | 1.03 V | 57 | 7.17 | 49.53 |
| 10 | 11400.00 | 43.5 AV | 54.0 | -10.5 | 1.03 V | 57 | -6.03 | 49.53 |
| 11 | #17100.00 | 56.6 PK | 74.0 | -17.4 | 1.14 V | 157 | 0.92 | 55.68 |
| 12 | #17100.00 | 43.5 AV | 54.0 | -10.5 | 1.14 V | 157 | -12.18 | 55.68 |

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

802.11n (HT40)

| | | | |
|------------------------|---------------|------------------------------|--------------|
| 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 | 5128.00 | 62.2 PK | 74.0 | -11.8 | 1.05 H | 153 | 20.83 | 41.37 |
| 2 | 5128.00 | 49.8 AV | 54.0 | -4.2 | 1.05 H | 153 | 8.43 | 41.37 |
| 3 | *5270.00 | 115.6 PK | | | 1.05 H | 153 | 73.76 | 41.84 |
| 4 | *5270.00 | 102.7 AV | | | 1.05 H | 153 | 60.86 | 41.84 |
| 5 | 5354.00 | 68.7 PK | 74.0 | -5.3 | 1.05 H | 155 | 26.69 | 42.01 |
| 6 | 5354.00 | 53.5 AV | 54.0 | -0.5 | 1.05 H | 155 | 11.49 | 42.01 |
| 7 | 5425.00 | 64.5 PK | 74.0 | -9.5 | 1.05 H | 153 | 22.30 | 42.20 |
| 8 | 5425.00 | 51.8 AV | 54.0 | -2.2 | 1.05 H | 153 | 9.60 | 42.20 |
| 9 | #10540.00 | 48.0 PK | 74.0 | -26.0 | 1.00 H | 155 | -0.49 | 48.49 |
| 10 | #10540.00 | 36.0 AV | 54.0 | -18.0 | 1.00 H | 155 | -12.49 | 48.49 |
| 11 | 15810.00 | 53.3 PK | 74.0 | -20.7 | 1.09 H | 166 | -0.51 | 53.81 |
| 12 | 15810.00 | 40.4 AV | 54.0 | -13.6 | 1.09 H | 166 | -13.41 | 53.81 |
| 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 | 5128.00 | 58.0 PK | 74.0 | -16.0 | 1.00 V | 30 | 16.63 | 41.37 |
| 2 | 5128.00 | 45.7 AV | 54.0 | -8.3 | 1.00 V | 30 | 4.33 | 41.37 |
| 3 | *5270.00 | 112.9 PK | | | 1.00 V | 30 | 71.06 | 41.84 |
| 4 | *5270.00 | 99.8 AV | | | 1.00 V | 30 | 57.96 | 41.84 |
| 5 | 5354.00 | 65.3 PK | 74.0 | -8.7 | 1.00 V | 30 | 23.29 | 42.01 |
| 6 | 5354.00 | 49.8 AV | 54.0 | -4.2 | 1.00 V | 30 | 7.79 | 42.01 |
| 7 | 5425.00 | 60.3 PK | 74.0 | -13.7 | 1.00 V | 30 | 18.10 | 42.20 |
| 8 | 5425.00 | 47.6 AV | 54.0 | -6.4 | 1.00 V | 30 | 5.40 | 42.20 |
| 9 | #10540.00 | 50.2 PK | 74.0 | -23.8 | 1.07 V | 119 | 1.71 | 48.49 |
| 10 | #10540.00 | 38.5 AV | 54.0 | -15.5 | 1.07 V | 119 | -9.99 | 48.49 |
| 11 | 15810.00 | 52.4 PK | 74.0 | -21.6 | 1.24 V | 17 | -1.41 | 53.81 |
| 12 | 15810.00 | 40.7 AV | 54.0 | -13.3 | 1.24 V | 17 | -13.11 | 53.81 |

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



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| | | | |
|-----------------|---------------|----------------------|--------------|
| 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 | 112.4 PK | | | 1.03 H | 154 | 70.48 | 41.92 |
| 2 | *5310.00 | 99.6 AV | | | 1.03 H | 154 | 57.68 | 41.92 |
| 3 | 5350.00 | 67.6 PK | 74.0 | -6.4 | 1.03 H | 154 | 25.60 | 42.00 |
| 4 | 5350.00 | 53.3 AV | 54.0 | -0.7 | 1.03 H | 154 | 11.30 | 42.00 |
| 5 | 5394.00 | 62.6 PK | 74.0 | -11.4 | 1.03 H | 154 | 20.52 | 42.08 |
| 6 | 5394.00 | 50.3 AV | 54.0 | -3.7 | 1.03 H | 154 | 8.22 | 42.08 |
| 7 | 10620.00 | 47.5 PK | 74.0 | -26.5 | 1.04 H | 164 | -1.00 | 48.50 |
| 8 | 10620.00 | 35.6 AV | 54.0 | -18.4 | 1.04 H | 164 | -12.90 | 48.50 |
| 9 | 15930.00 | 53.1 PK | 74.0 | -20.9 | 1.08 H | 168 | -0.70 | 53.80 |
| 10 | 15930.00 | 40.5 AV | 54.0 | -13.5 | 1.08 H | 168 | -13.30 | 53.80 |

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 | *5310.00 | 109.6 PK | | | 1.02 V | 24 | 67.68 | 41.92 |
| 2 | *5310.00 | 97.0 AV | | | 1.02 V | 24 | 55.08 | 41.92 |
| 3 | 5350.00 | 63.9 PK | 74.0 | -10.1 | 1.02 V | 24 | 21.90 | 42.00 |
| 4 | 5350.00 | 49.5 AV | 54.0 | -4.5 | 1.02 V | 24 | 7.50 | 42.00 |
| 5 | 5394.00 | 58.9 PK | 74.0 | -15.1 | 1.02 V | 24 | 16.82 | 42.08 |
| 6 | 5394.00 | 46.5 AV | 54.0 | -7.5 | 1.02 V | 24 | 4.42 | 42.08 |
| 7 | 10620.00 | 47.4 PK | 74.0 | -26.6 | 1.05 V | 112 | -1.10 | 48.50 |
| 8 | 10620.00 | 35.4 AV | 54.0 | -18.6 | 1.05 V | 112 | -13.10 | 48.50 |
| 9 | 15930.00 | 51.7 PK | 74.0 | -22.3 | 1.17 V | 14 | -2.10 | 53.80 |
| 10 | 15930.00 | 39.9 AV | 54.0 | -14.1 | 1.17 V | 14 | -13.90 | 53.80 |

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)
– Pre-Amplifier 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 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 | 5433.00 | 62.4 PK | 74.0 | -11.6 | 1.00 H | 152 | 20.16 | 42.24 |
| 2 | 5433.00 | 49.6 AV | 54.0 | -4.4 | 1.00 H | 152 | 7.36 | 42.24 |
| 3 | #5470.00 | 69.3 PK | 74.0 | -4.7 | 1.00 H | 152 | 26.89 | 42.41 |
| 4 | #5470.00 | 53.4 AV | 54.0 | -0.6 | 1.00 H | 152 | 10.99 | 42.41 |
| 5 | *5510.00 | 110.6 PK | | | 1.00 H | 152 | 68.03 | 42.57 |
| 6 | *5510.00 | 98.5 AV | | | 1.00 H | 152 | 55.93 | 42.57 |
| 7 | 11020.00 | 47.2 PK | 74.0 | -26.8 | 1.00 H | 143 | -2.15 | 49.35 |
| 8 | 11020.00 | 35.6 AV | 54.0 | -18.4 | 1.00 H | 143 | -13.75 | 49.35 |
| 9 | #16530.00 | 52.4 PK | 74.0 | -21.6 | 1.15 H | 178 | -3.13 | 55.53 |
| 10 | #16530.00 | 39.6 AV | 54.0 | -14.4 | 1.15 H | 178 | -15.93 | 55.53 |

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 | 5433.00 | 58.8 PK | 74.0 | -15.2 | 1.00 V | 36 | 16.56 | 42.24 |
| 2 | 5433.00 | 46.1 AV | 54.0 | -7.9 | 1.00 V | 36 | 3.86 | 42.24 |
| 3 | #5470.00 | 65.4 PK | 74.0 | -8.6 | 1.00 V | 36 | 22.99 | 42.41 |
| 4 | #5470.00 | 49.5 AV | 54.0 | -4.5 | 1.00 V | 36 | 7.09 | 42.41 |
| 5 | *5510.00 | 107.5 PK | | | 1.00 V | 36 | 64.93 | 42.57 |
| 6 | *5510.00 | 95.4 AV | | | 1.00 V | 36 | 52.83 | 42.57 |
| 7 | 11020.00 | 49.1 PK | 74.0 | -24.9 | 1.03 V | 109 | -0.25 | 49.35 |
| 8 | 11020.00 | 36.4 AV | 54.0 | -17.6 | 1.03 V | 109 | -12.95 | 49.35 |
| 9 | #16530.00 | 56.6 PK | 74.0 | -17.4 | 1.11 V | 129 | 1.07 | 55.53 |
| 10 | #16530.00 | 44.0 AV | 54.0 | -10.0 | 1.11 V | 129 | -11.53 | 55.53 |

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



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| | | | |
|-----------------|----------------|----------------------|--------------|
| 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 | #5465.00 | 66.5 PK | 74.0 | -7.5 | 1.31 H | 153 | 24.11 | 42.39 |
| 2 | #5465.00 | 53.3 AV | 54.0 | -0.7 | 1.31 H | 153 | 10.91 | 42.39 |
| 3 | *5550.00 | 114.1 PK | | | 1.31 H | 153 | 71.38 | 42.72 |
| 4 | *5550.00 | 101.7 AV | | | 1.31 H | 153 | 58.98 | 42.72 |
| 5 | #5725.00 | 62.6 PK | 74.0 | -11.4 | 1.31 H | 153 | 19.46 | 43.14 |
| 6 | #5725.00 | 49.3 AV | 54.0 | -4.7 | 1.31 H | 153 | 6.16 | 43.14 |
| 7 | 11100.00 | 47.1 PK | 74.0 | -26.9 | 1.00 H | 140 | -2.13 | 49.23 |
| 8 | 11100.00 | 35.6 AV | 54.0 | -18.4 | 1.00 H | 140 | -13.63 | 49.23 |
| 9 | #16650.00 | 52.8 PK | 74.0 | -21.2 | 1.05 H | 135 | -2.93 | 55.73 |
| 10 | #16650.00 | 40.0 AV | 54.0 | -14.0 | 1.05 H | 135 | -15.73 | 55.73 |

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 | #5465.00 | 62.3 PK | 74.0 | -11.7 | 1.00 V | 24 | 19.91 | 42.39 |
| 2 | #5465.00 | 49.5 AV | 54.0 | -4.5 | 1.00 V | 24 | 7.11 | 42.39 |
| 3 | *5550.00 | 110.6 PK | | | 1.00 V | 24 | 67.88 | 42.72 |
| 4 | *5550.00 | 98.4 AV | | | 1.00 V | 24 | 55.68 | 42.72 |
| 5 | #5725.00 | 58.5 PK | 74.0 | -15.5 | 1.00 V | 24 | 15.36 | 43.14 |
| 6 | #5725.00 | 45.4 AV | 54.0 | -8.6 | 1.00 V | 24 | 2.26 | 43.14 |
| 7 | 11100.00 | 54.2 PK | 74.0 | -19.8 | 1.09 V | 96 | 4.97 | 49.23 |
| 8 | 11100.00 | 41.8 AV | 54.0 | -12.2 | 1.09 V | 96 | -7.43 | 49.23 |
| 9 | #16650.00 | 56.4 PK | 74.0 | -17.6 | 1.08 V | 137 | 0.67 | 55.73 |
| 10 | #16650.00 | 44.2 AV | 54.0 | -9.8 | 1.08 V | 137 | -11.53 | 55.73 |

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



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| | | | |
|-----------------|----------------|----------------------|--------------|
| 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 | 114.4 PK | | | 1.17 H | 159 | 71.38 | 43.02 |
| 2 | *5670.00 | 101.8 AV | | | 1.17 H | 159 | 58.78 | 43.02 |
| 3 | #5725.00 | 71.4 PK | 74.0 | -2.6 | 1.17 H | 159 | 28.26 | 43.14 |
| 4 | #5725.00 | 51.7 AV | 54.0 | -2.3 | 1.17 H | 159 | 8.56 | 43.14 |
| 5 | #5733.00 | 71.6 PK | 74.0 | -2.4 | 1.17 H | 159 | 28.44 | 43.16 |
| 6 | #5733.00 | 53.4 AV | 54.0 | -0.6 | 1.17 H | 159 | 10.24 | 43.16 |
| 7 | #5835.00 | 66.1 PK | 74.0 | -7.9 | 1.17 H | 159 | 22.60 | 43.50 |
| 8 | #5835.00 | 52.4 AV | 54.0 | -1.6 | 1.17 H | 159 | 8.90 | 43.50 |
| 9 | 11340.00 | 47.7 PK | 74.0 | -26.3 | 1.00 H | 142 | -1.92 | 49.62 |
| 10 | 11340.00 | 36.0 AV | 54.0 | -18.0 | 1.00 H | 142 | -13.62 | 49.62 |
| 11 | #17010.00 | 53.0 PK | 74.0 | -21.0 | 1.01 H | 170 | -2.90 | 55.90 |
| 12 | #17010.00 | 40.2 AV | 54.0 | -13.8 | 1.01 H | 170 | -15.70 | 55.90 |
| 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 | 111.5 PK | | | 1.00 V | 34 | 68.48 | 43.02 |
| 2 | *5670.00 | 98.8 AV | | | 1.00 V | 34 | 55.78 | 43.02 |
| 3 | #5725.00 | 67.6 PK | 74.0 | -6.4 | 1.00 V | 34 | 24.46 | 43.14 |
| 4 | #5725.00 | 47.7 AV | 54.0 | -6.3 | 1.00 V | 34 | 4.56 | 43.14 |
| 5 | #5733.00 | 67.4 PK | 74.0 | -6.6 | 1.00 V | 34 | 24.24 | 43.16 |
| 6 | #5733.00 | 49.3 AV | 54.0 | -4.7 | 1.00 V | 34 | 6.14 | 43.16 |
| 7 | #5835.00 | 61.8 PK | 74.0 | -12.2 | 1.00 V | 34 | 18.30 | 43.50 |
| 8 | #5835.00 | 48.3 AV | 54.0 | -5.7 | 1.00 V | 34 | 4.80 | 43.50 |
| 9 | 11340.00 | 53.8 PK | 74.0 | -20.2 | 1.07 V | 102 | 4.18 | 49.62 |
| 10 | 11340.00 | 41.7 AV | 54.0 | -12.3 | 1.07 V | 102 | -7.92 | 49.62 |
| 11 | #17010.00 | 57.5 PK | 74.0 | -16.5 | 1.09 V | 126 | 1.60 | 55.90 |
| 12 | #17010.00 | 45.0 AV | 54.0 | -9.0 | 1.09 V | 126 | -10.90 | 55.90 |

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

802.11ac (VHT80)

| | | | |
|------------------------|---------------|------------------------------|--------------|
| CHANNEL | TX Channel 58 | 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 | 73.1 PK | 74.0 | -0.9 | 1.14 H | 301 | 31.64 | 41.46 |
| 2 | 5150.00 | 53.4 AV | 54.0 | -0.6 | 1.14 H | 301 | 11.94 | 41.46 |
| 3 | *5290.00 | 110.8 PK | | | 1.14 H | 303 | 68.91 | 41.89 |
| 4 | *5290.00 | 101.0 AV | | | 1.14 H | 303 | 59.11 | 41.89 |
| 5 | #10580.00 | 47.8 PK | 74.0 | -26.2 | 1.03 H | 140 | -0.64 | 48.44 |
| 6 | #10580.00 | 35.9 AV | 54.0 | -18.1 | 1.03 H | 140 | -12.54 | 48.44 |
| 7 | 15870.00 | 52.6 PK | 74.0 | -21.4 | 1.01 H | 167 | -1.20 | 53.80 |
| 8 | 15870.00 | 40.1 AV | 54.0 | -13.9 | 1.01 H | 167 | -13.70 | 53.80 |
| 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 | 64.7 PK | 74.0 | -9.3 | 1.00 V | 98 | 23.24 | 41.46 |
| 2 | 5150.00 | 46.2 AV | 54.0 | -7.8 | 1.00 V | 98 | 4.74 | 41.46 |
| 3 | *5290.00 | 104.0 PK | | | 1.00 V | 98 | 62.11 | 41.89 |
| 4 | *5290.00 | 91.2 AV | | | 1.00 V | 98 | 49.31 | 41.89 |
| 5 | #10580.00 | 54.0 PK | 74.0 | -20.0 | 1.12 V | 91 | 5.56 | 48.44 |
| 6 | #10580.00 | 41.8 AV | 54.0 | -12.2 | 1.12 V | 91 | -6.64 | 48.44 |
| 7 | 15870.00 | 57.7 PK | 74.0 | -16.3 | 1.09 V | 127 | 3.90 | 53.80 |
| 8 | 15870.00 | 45.0 AV | 54.0 | -9.0 | 1.09 V | 127 | -8.80 | 53.80 |

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Emission Level – Limit value
- " * ": Fundamental frequency.
- " # ": The radiated frequency is out of the restricted band.

| | | | |
|------------------------|----------------|------------------------------|--------------|
| CHANNEL | TX Channel 106 | 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 | #5470.00 | 67.3 PK | 74.0 | -6.7 | 1.36 H | 290 | 24.89 | 42.41 |
| 2 | #5470.00 | 53.2 AV | 54.0 | -0.8 | 1.36 H | 290 | 10.79 | 42.41 |
| 3 | *5530.00 | 107.8 PK | | | 1.64 H | 272 | 65.15 | 42.65 |
| 4 | *5530.00 | 98.1 AV | | | 1.64 H | 272 | 55.45 | 42.65 |
| 5 | 11060.00 | 47.3 PK | 74.0 | -26.7 | 1.00 H | 152 | -1.99 | 49.29 |
| 6 | 11060.00 | 35.6 AV | 54.0 | -18.4 | 1.00 H | 152 | -13.69 | 49.29 |
| 7 | #16590.00 | 52.9 PK | 74.0 | -21.1 | 1.02 H | 153 | -3.18 | 56.08 |
| 8 | #16590.00 | 40.1 AV | 54.0 | -13.9 | 1.02 H | 153 | -15.98 | 56.08 |
| 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 | #5470.00 | 61.3 PK | 74.0 | -12.7 | 1.00 V | 168 | 18.89 | 42.41 |
| 2 | #5470.00 | 47.1 AV | 54.0 | -6.9 | 1.00 V | 168 | 4.69 | 42.41 |
| 3 | *5530.00 | 101.2 PK | | | 1.00 V | 168 | 58.55 | 42.65 |
| 4 | *5530.00 | 88.7 AV | | | 1.00 V | 168 | 46.05 | 42.65 |
| 5 | 11060.00 | 53.7 PK | 74.0 | -20.3 | 1.09 V | 106 | 4.41 | 49.29 |
| 6 | 11060.00 | 41.9 AV | 54.0 | -12.1 | 1.09 V | 106 | -7.39 | 49.29 |
| 7 | #16590.00 | 56.6 PK | 74.0 | -17.4 | 1.11 V | 114 | 0.52 | 56.08 |
| 8 | #16590.00 | 44.2 AV | 54.0 | -9.8 | 1.11 V | 114 | -11.88 | 56.08 |

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

4.3 TRANSMIT POWER MEASUREMENT

4.3.1 LIMITS OF TRANSMIT POWER MEASUREMENT

| Frequency Band | Limit |
|------------------|---|
| 5.15 – 5.25GHz | The lesser of 50mW (17dBm) or 4dBm + 10logB |
| 5.25 – 5.35GHz | The lesser of 250mW (24dBm) or 11dBm + 10logB |
| 5.47 – 5.725GHz | The lesser of 250mW (24dBm) or 11dBm + 10logB |
| 5.725 – 5.825GHz | The lesser of 1W (30dBm) or 17dBm + 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 INSTRUMENTS

FOR POWER OUTPUT MEASUREMENT

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|----------------------------|-----------|------------|-----------------|------------------|
| Power meter Anritsu | ML2495A | 0824006 | May 20, 2013 | May 19, 2014 |
| Power sensor Anritsu | MA2411B | 0738172 | May 20, 2013 | May 19, 2014 |

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. Tested date : Aug. 05 to 08, 2013



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FOR 26dB OCCUPIED BANDWIDTH

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|----------------------------|-----------|------------|-----------------|------------------|
| Spectrum Analyzer R&S | FSP 40 | 100036 | Jan. 21, 2013 | Jan. 20, 2014 |

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. Tested date : Aug. 05 to 08, 2013

4.3.3 TEST PROCEDURE

FOR POWER OUTPUT 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.

Duty cycle of test signal is < 98 %. 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 OCCUPIED BANDWIDTH

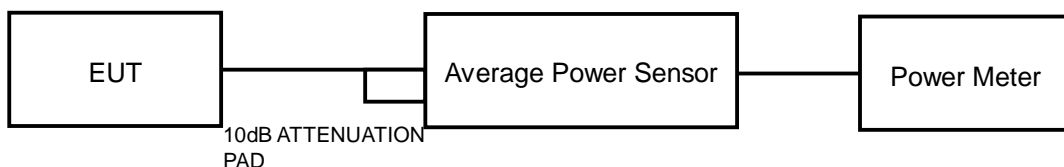
1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement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

4.3.4 DEVIATION FROM TEST STANDARD

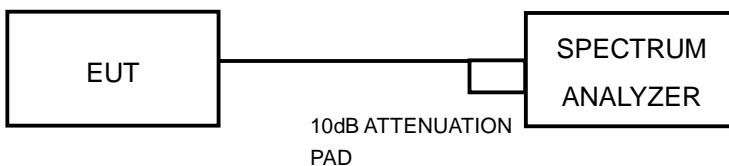
No deviation

4.3.5 TEST SETUP

FOR POWER OUTPUT MEASUREMENT



FOR 26dB OCCUPIED BANDWIDTH



4.3.6 EUT OPERATING CONDITIONS

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



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4.3.7 TEST RESULTS (MODE 1)

POWER OUTPUT:

802.11a

| CHANNEL | CHANNEL FREQUENCY (MHz) | AVERAGE POWER (mW) | AVERAGE POWER (dBm) | POWER LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------|--------------------|---------------------|-------------------|-----------|
| 52 | 5260 | 49.204 | 16.92 | 24 | PASS |
| 60 | 5300 | 49.091 | 16.91 | 24 | PASS |
| 64 | 5320 | 19.543 | 12.91 | 24 | PASS |
| 100 | 5500 | 31.696 | 15.01 | 24 | PASS |
| 116 | 5580 | 49.545 | 16.95 | 24 | PASS |
| 132 | 5660 | 44.055 | 16.44 | 24 | PASS |
| 140 | 5700 | 9.863 | 9.94 | 23.92 | PASS |

26dB OCCUPIED BANDWIDTH:

| CHANNEL | CHANNEL FREQUENCY (MHz) | 26dBc BANDWIDTH (MHz) |
|---------|-------------------------|-----------------------|
| 52 | 5260 | 37.09 |
| 60 | 5300 | 36.50 |
| 64 | 5320 | 22.60 |
| 100 | 5500 | 28.61 |
| 116 | 5580 | 38.79 |
| 132 | 5660 | 41.00 |
| 140 | 5700 | 19.63 |

Note: For output power limitation is determined based on 26dBc bandwidth.

| Power Limit = 11dBm + 10logB < Band 2~3> | | | |
|--|------------|-------------|------------------------|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Limit (dBm) |
| 52 | 5260 | 37.09 | 26.69 > 24 |
| 60 | 5300 | 36.50 | 26.62 > 24 |
| 64 | 5320 | 22.60 | 24.54 > 24 |
| 100 | 5500 | 28.61 | 25.56 > 24 |
| 116 | 5580 | 38.79 | 26.88 > 24 |
| 132 | 5660 | 41.00 | 27.12 > 24 |
| 140 | 5700 | 19.63 | 23.92 < 24 |

802.11n (HT20)

| CHANNEL | CHANNEL FREQUENCY (MHz) | AVERAGE POWER (mW) | AVERAGE POWER (dBm) | POWER LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------|--------------------|---------------------|-------------------|-----------|
| 52 | 5260 | 49.091 | 16.91 | 24 | PASS |
| 60 | 5300 | 48.865 | 16.89 | 24 | PASS |
| 64 | 5320 | 18.836 | 12.75 | 24 | PASS |
| 100 | 5500 | 26.792 | 14.28 | 24 | PASS |
| 116 | 5580 | 49.774 | 16.97 | 24 | PASS |
| 132 | 5660 | 48.865 | 16.89 | 24 | PASS |
| 140 | 5700 | 12.474 | 10.96 | 24 | PASS |

26dB OCCUPIED BANDWIDTH:

| CHANNEL | CHANNEL FREQUENCY (MHz) | 26dBc BANDWIDTH (MHz) |
|---------|-------------------------|-----------------------|
| 52 | 5260 | 34.17 |
| 60 | 5300 | 40.17 |
| 64 | 5320 | 22.90 |
| 100 | 5500 | 23.67 |
| 116 | 5580 | 40.61 |
| 132 | 5660 | 41.32 |
| 140 | 5700 | 23.73 |

Note: For output power limitation is determined based on 26dBc bandwidth.

| Power Limit = 11dBm + 10logB < Band 2~3> | | | |
|--|------------|-------------|------------------------|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Limit (dBm) |
| 52 | 5260 | 34.17 | 26.33 > 24 |
| 60 | 5300 | 40.17 | 27.03 > 24 |
| 64 | 5320 | 22.90 | 24.59 > 24 |
| 100 | 5500 | 23.67 | 24.74 > 24 |
| 116 | 5580 | 40.61 | 27.08 > 24 |
| 132 | 5660 | 41.32 | 27.16 > 24 |
| 140 | 5700 | 23.73 | 24.75 > 24 |



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802.11n (HT40)

| CHANNEL | CHANNEL FREQUENCY (MHz) | AVERAGE POWER (mW) | AVERAGE POWER (dBm) | POWER LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------|--------------------|---------------------|-------------------|-----------|
| 54 | 5270 | 34.995 | 15.44 | 24 | PASS |
| 62 | 5310 | 9.683 | 9.86 | 24 | PASS |
| 102 | 5510 | 9.376 | 9.72 | 24 | PASS |
| 110 | 5550 | 37.497 | 15.74 | 24 | PASS |
| 134 | 5670 | 23.550 | 13.72 | 24 | PASS |

26dB OCCUPIED BANDWIDTH:

| CHANNEL | CHANNEL FREQUENCY (MHz) | 26dBc BANDWIDTH (MHz) |
|---------|-------------------------|-----------------------|
| 54 | 5270 | 91.18 |
| 62 | 5310 | 41.57 |
| 102 | 5510 | 41.38 |
| 110 | 5550 | 92.34 |
| 134 | 5670 | 91.91 |

Note: For output power limitation is determined based on 26dBc bandwidth.

| Power Limit = 11dBm + 10logB < Band 2~3> | | | |
|--|------------|-------------|------------------------|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Limit (dBm) |
| 54 | 5270 | 91.18 | 30.59 > 24 |
| 62 | 5310 | 41.57 | 27.18 > 24 |
| 102 | 5510 | 41.38 | 27.16 > 24 |
| 110 | 5550 | 92.34 | 30.65 > 24 |
| 134 | 5670 | 91.91 | 30.63 > 24 |

4.3.8 TEST RESULTS (MODE 2)

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 | | | | |
| 52 | 5260 | 15.11 | 15.13 | 14.72 | 94.666 | 19.76 | 24 | PASS |
| 60 | 5300 | 14.09 | 14.45 | 13.71 | 77.002 | 18.87 | 24 | PASS |
| 64 | 5320 | 14.16 | 14.35 | 13.69 | 76.677 | 18.85 | 24 | PASS |
| 100 | 5500 | 13.18 | 13.12 | 12.59 | 59.464 | 17.74 | 24 | PASS |
| 116 | 5580 | 15.87 | 16.01 | 15.25 | 112.036 | 20.49 | 24 | PASS |
| 132 | 5660 | 12.24 | 12.53 | 12.24 | 51.404 | 17.11 | 24 | PASS |
| 140 | 5700 | 12.83 | 12.81 | 12.65 | 56.694 | 17.54 | 24 | PASS |

26dB OCCUPIED BANDWIDTH:

| CHANNEL | CHANNEL FREQUENCY (MHz) | 26dBc BANDWIDTH (MHz) | | |
|---------|-------------------------|-----------------------|---------|---------|
| | | CHAIN 0 | CHAIN 1 | CHAIN 2 |
| 52 | 5260 | 20.59 | 20.47 | 20.62 |
| 60 | 5300 | 20.59 | 20.54 | 20.52 |
| 64 | 5320 | 20.61 | 20.50 | 20.40 |
| 100 | 5500 | 20.56 | 20.45 | 20.55 |
| 116 | 5580 | 20.62 | 20.53 | 20.42 |
| 132 | 5660 | 20.56 | 20.40 | 20.52 |
| 140 | 5700 | 20.64 | 20.40 | 20.47 |

Note: For output power limitation is determined based on 26dBc bandwidth.

| Power Limit = 11dBm + 10logB < Band 2~3> | | | |
|--|------------|-------------|------------------------|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Limit (dBm) |
| 52 | 5260 | 20.47 | 24.11 > 24 |
| 60 | 5300 | 20.52 | 24.12 > 24 |
| 64 | 5320 | 20.40 | 24.09 > 24 |
| 100 | 5500 | 20.45 | 24.1 > 24 |
| 116 | 5580 | 20.42 | 24.1 > 24 |
| 132 | 5660 | 20.40 | 24.09 > 24 |
| 140 | 5700 | 20.40 | 24.09 > 24 |

802.11n (HT20)

| CHAN. | CHAN. FREQ. (MHz) | AVERAGE POWER (dBm) | | | TOTAL POWER (mW) | TOTAL POWER (dBm) | POWER LIMIT (dBm) | PASS / FAIL |
|-------|-------------------|---------------------|---------|---------|------------------|-------------------|-------------------|-------------|
| | | CHAIN 0 | CHAIN 1 | CHAIN 2 | | | | |
| 52 | 5260 | 18.06 | 18.24 | 17.64 | 188.730 | 22.76 | 24 | PASS |
| 60 | 5300 | 17.01 | 17.19 | 16.64 | 148.726 | 21.72 | 24 | PASS |
| 64 | 5320 | 17.01 | 17.33 | 16.64 | 150.441 | 21.77 | 24 | PASS |
| 100 | 5500 | 16.89 | 16.79 | 16.03 | 136.705 | 21.36 | 24 | PASS |
| 116 | 5580 | 18.34 | 18.23 | 17.75 | 194.327 | 22.89 | 24 | PASS |
| 132 | 5660 | 17.76 | 17.16 | 17.18 | 163.944 | 22.15 | 24 | PASS |
| 140 | 5700 | 16.54 | 16.05 | 15.95 | 124.709 | 20.96 | 24 | PASS |

26dB OCCUPIED BANDWIDTH:

| CHANNEL | CHANNEL FREQUENCY (MHz) | 26dBc BANDWIDTH (MHz) | | |
|---------|-------------------------|-----------------------|---------|---------|
| | | CHAIN 0 | CHAIN 1 | CHAIN 2 |
| 52 | 5260 | 23.72 | 21.12 | 21.07 |
| 60 | 5300 | 20.93 | 20.68 | 20.58 |
| 64 | 5320 | 21.10 | 20.46 | 20.85 |
| 100 | 5500 | 20.95 | 20.59 | 20.78 |
| 116 | 5580 | 21.40 | 23.62 | 27.76 |
| 132 | 5660 | 20.70 | 20.63 | 22.84 |
| 140 | 5700 | 20.90 | 20.59 | 20.94 |

Note: For output power limitation is determined based on 26dBc bandwidth.

| Power Limit = 11dBm + 10logB < Band 2~3> | | | |
|--|------------|-------------|------------------------|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Limit (dBm) |
| 52 | 5260 | 21.07 | 24.23 > 24 |
| 60 | 5300 | 20.58 | 24.13 > 24 |
| 64 | 5320 | 20.46 | 24.1 > 24 |
| 100 | 5500 | 20.59 | 24.13 > 24 |
| 116 | 5580 | 21.40 | 24.3 > 24 |
| 132 | 5660 | 20.63 | 24.14 > 24 |
| 140 | 5700 | 20.59 | 24.13 > 24 |

802.11n (HT40)

| CHAN. | CHAN. FREQ. (MHz) | AVERAGE POWER (dBm) | | | TOTAL POWER (mW) | TOTAL POWER (dBm) | POWER LIMIT (dBm) | PASS / FAIL |
|-------|-------------------|---------------------|---------|---------|------------------|-------------------|-------------------|-------------|
| | | CHAIN 0 | CHAIN 1 | CHAIN 2 | | | | |
| 54 | 5270 | 18.12 | 18.42 | 17.76 | 194.069 | 22.88 | 24 | PASS |
| 62 | 5310 | 16.15 | 16.48 | 15.73 | 123.084 | 20.90 | 24 | PASS |
| 102 | 5510 | 15.56 | 15.47 | 14.92 | 102.258 | 20.10 | 24 | PASS |
| 110 | 5550 | 18.18 | 18.14 | 17.83 | 191.603 | 22.82 | 24 | PASS |
| 134 | 5670 | 18.20 | 17.67 | 17.95 | 186.921 | 22.72 | 24 | PASS |

26dB OCCUPIED BANDWIDTH:

| CHANNEL | CHANNEL FREQUENCY (MHz) | 26dBc BANDWIDTH (MHz) | | |
|---------|-------------------------|-----------------------|---------|---------|
| | | CHAIN 0 | CHAIN 1 | CHAIN 2 |
| 54 | 5270 | 63.15 | 68.08 | 51.88 |
| 62 | 5310 | 41.51 | 41.11 | 41.16 |
| 102 | 5510 | 41.41 | 41.12 | 41.13 |
| 110 | 5550 | 66.91 | 67.08 | 64.09 |
| 134 | 5670 | 62.42 | 68.97 | 53.92 |

Note: For output power limitation is determined based on 26dBc bandwidth.

| Power Limit = 11dBm + 10logB < Band 2~3> | | | |
|--|------------|-------------|------------------------|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Limit (dBm) |
| 54 | 5270 | 51.88 | 28.14 > 24 |
| 62 | 5310 | 41.11 | 27.13 > 24 |
| 102 | 5510 | 41.12 | 27.14 > 24 |
| 110 | 5550 | 64.09 | 29.06 > 24 |
| 134 | 5670 | 53.92 | 28.31 > 24 |



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802.11ac (VHT80)

| CHAN. | CHAN. FREQ. (MHz) | AVERAGE POWER (dBm) | | | TOTAL POWER (mW) | TOTAL POWER (dBm) | POWER LIMIT (dBm) | PASS / FAIL |
|-------|-------------------|---------------------|---------|---------|------------------|-------------------|-------------------|-------------|
| | | CHAIN 0 | CHAIN 1 | CHAIN 2 | | | | |
| 58 | 5290 | 17.89 | 18.27 | 17.80 | 188.917 | 22.76 | 24 | PASS |
| 106 | 5530 | 14.16 | 14.50 | 14.01 | 79.423 | 19.00 | 24 | PASS |

26dB OCCUPIED BANDWIDTH:

| CHANNEL | CHANNEL FREQUENCY (MHz) | 26dBc BANDWIDTH (MHz) | | |
|---------|-------------------------|-----------------------|---------|---------|
| | | CHAIN 0 | CHAIN 1 | CHAIN 2 |
| 58 | 5290 | 90.30 | 84.22 | 90.62 |
| 106 | 5530 | 83.10 | 82.74 | 82.12 |

Note: For output power limitation is determined based on 26dBc bandwidth.

| Power Limit = 11dBm + 10logB < Band 2~3> | | | |
|--|------------|-------------|------------------------|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Limit (dBm) |
| 58 | 5290 | 84.22 | 30.25 > 24 |
| 106 | 5530 | 82.12 | 30.14 > 24 |

4.4 PEAK POWER SPECTRAL DENSITY MEASUREMENT

4.4.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT

| Frequency Band | Limit |
|------------------|-------|
| 5.15 ~ 5.25GHz | 4dBm |
| 5.25 ~ 5.35GHz | 11dBm |
| 5.47 ~ 5.725GHz | 11dBm |
| 5.725 ~ 5.825GHz | 17dBm |

4.4.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|----------------------------|-----------|------------|-----------------|------------------|
| Spectrum Analyzer R&S | FSP 40 | 100036 | Jan. 21, 2013 | Jan. 20, 2014 |

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. Tested date : Sep. 23, 2013

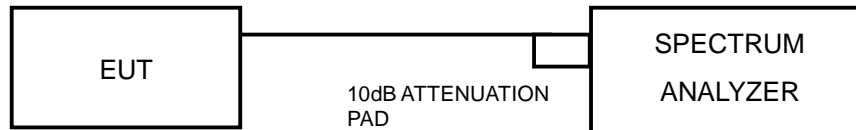
4.4.3 TEST PROCEDURES

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz, Set VBW \geq 3 MHz, Detector = RMS
3. Sweep time = auto, trigger set to "free run".
4. Trace average at least 100 traces in power averaging mode.
5. Record the max value and for duty cycle of test signal is < 98% add 10 log (1/duty cycle)

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

Same as 4.3.6

4.4.7 TEST RESULTS (MODE 1)

802.11a

| CHANNEL | CHANNEL FREQUENCY (MHz) | PSD (dBm) | MAXIMUM LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------|-----------|---------------------|-----------|
| 52 | 5260 | 5.25 | 11 | PASS |
| 60 | 5300 | 5.85 | 11 | PASS |
| 64 | 5320 | 1.32 | 11 | PASS |
| 100 | 5500 | 2.83 | 11 | PASS |
| 116 | 5580 | 4.27 | 11 | PASS |
| 132 | 5660 | 4.49 | 11 | PASS |
| 140 | 5700 | -2.08 | 11 | PASS |

802.11n (HT20)

| CHANNEL | CHANNEL FREQUENCY (MHz) | PSD (dBm) | MAXIMUM LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------|-----------|---------------------|-----------|
| 52 | 5260 | 5.11 | 11 | PASS |
| 60 | 5300 | 5.65 | 11 | PASS |
| 64 | 5320 | 1.11 | 11 | PASS |
| 100 | 5500 | 0.85 | 11 | PASS |
| 116 | 5580 | 3.66 | 11 | PASS |
| 132 | 5660 | 4.82 | 11 | PASS |
| 140 | 5700 | -1.50 | 11 | PASS |

802.11n (HT40)

| CHANNEL | CHANNEL FREQUENCY (MHz) | PSD (dBm) | MAXIMUM LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------|-----------|---------------------|-----------|
| 54 | 5270 | 1.04 | 11 | PASS |
| 62 | 5310 | -5.37 | 11 | PASS |
| 102 | 5510 | -7.23 | 11 | PASS |
| 110 | 5550 | -0.74 | 11 | PASS |
| 134 | 5670 | -2.34 | 11 | PASS |

4.4.8 TEST RESULTS (MODE 2)

802.11a

| CHANNEL | CHANNEL FREQUENCY (MHz) | PSD (dBm) | | | TOTAL POWER DENSITY (dBm) | MAX. LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------|-----------|---------|---------|---------------------------|------------------|-----------|
| | | CHAIN 0 | CHAIN 1 | CHAIN 2 | | | |
| 52 | 5260 | 2.02 | 1.80 | 1.42 | 6.52 | 6.79 | PASS |
| 60 | 5300 | 0.30 | 0.27 | 0.10 | 5.00 | 6.79 | PASS |
| 64 | 5320 | 0.41 | 0.42 | 0.16 | 5.10 | 6.79 | PASS |
| 100 | 5500 | -1.05 | -0.58 | -1.29 | 3.81 | 6.79 | PASS |
| 116 | 5580 | 1.55 | 1.56 | 1.25 | 6.23 | 6.79 | PASS |
| 132 | 5660 | -2.36 | -1.99 | -2.18 | 2.60 | 6.79 | PASS |
| 140 | 5700 | -1.33 | -0.97 | -1.43 | 3.53 | 6.79 | 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 = $10 \log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 3] = 10.21\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (10.21 - 6) = 6.79\text{dBm}$.

802.11n (HT20)

| CHANNEL | CHANNEL FREQUENCY (MHz) | PSD W/O DUTY FACTOR (dBm) | | | DUTY FACTOR (dB) | TOTAL PSD WITH DUTY FACTOR (dBm) | MAX. LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------|---------------------------|---------|---------|------------------|----------------------------------|------------------|-----------|
| | | CHAIN 0 | CHAIN 1 | CHAIN 2 | | | | |
| 52 | 5260 | 4.44 | 4.29 | 3.96 | 0.13 | 9.14 | 11 | PASS |
| 60 | 5300 | 2.98 | 2.83 | 2.66 | 0.13 | 7.73 | 11 | PASS |
| 64 | 5320 | 3.19 | 3.02 | 2.90 | 0.13 | 7.94 | 11 | PASS |
| 100 | 5500 | 2.28 | 2.40 | 1.84 | 0.13 | 7.08 | 11 | PASS |
| 116 | 5580 | 3.44 | 3.23 | 3.18 | 0.13 | 8.19 | 11 | PASS |
| 132 | 5660 | 2.57 | 2.39 | 2.43 | 0.13 | 7.37 | 11 | PASS |
| 140 | 5700 | 1.84 | 1.72 | 1.40 | 0.13 | 6.56 | 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. Refer to section 3.4 for duty cycle spectrum plot.



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802.11n (HT40)

| CHANNEL | CHANNEL FREQUENCY (MHz) | PSD W/O DUTY FACTOR (dBm) | | | DUTY FACTOR (dB) | TOTAL PSD WITH DUTY FACTOR (dBm) | MAX. LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------------|------------------------------|---------|---------|------------------------|---|---------------------|-----------|
| | | CHAIN 0 | CHAIN 1 | CHAIN 2 | | | | |
| 54 | 5270 | 1.63 | 1.35 | 1.31 | 0.19 | 6.39 | 11 | PASS |
| 62 | 5310 | -0.63 | -1.00 | -1.09 | 0.19 | 4.06 | 11 | PASS |
| 102 | 5510 | -1.79 | -1.67 | -2.17 | 0.19 | 3.09 | 11 | PASS |
| 110 | 5550 | 0.77 | 0.63 | 0.54 | 0.19 | 5.61 | 11 | PASS |
| 134 | 5670 | 0.20 | 0.21 | 0.17 | 0.19 | 5.15 | 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. Refer to section 3.4 for duty cycle spectrum plot.

802.11ac (VHT80)

| CHANNEL | CHANNEL FREQUENCY (MHz) | PSD W/O DUTY FACTOR (dBm) | | | DUTY FACTOR (dBm) | TOTAL PSD WITH DUTY FACTOR (dBm) | MAX. LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------------|------------------------------|---------|---------|-------------------------|---|---------------------|-----------|
| | | CHAIN 0 | CHAIN 1 | CHAIN 2 | | | | |
| 58 | 5290 | -2.10 | -2.15 | -2.06 | 0.39 | 3.06 | 11 | PASS |
| 106 | 5530 | -6.39 | -5.84 | -6.37 | 0.39 | -1.03 | 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. Refer to section 3.4 for duty cycle spectrum plot.

4.5 PEAK POWER EXCURSION MEASUREMENT

4.5.1 LIMITS OF PEAK POWER EXCURSION MEASUREMENT

Shall not exceed 13 dB

4.5.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|----------------------------|-----------|------------|-----------------|------------------|
| Spectrum Analyzer R&S | FSP 40 | 100036 | Jan. 21, 2013 | Jan. 20, 2014 |

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. Tested date : Aug. 05 to 08, 2013

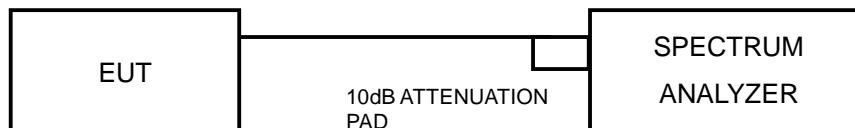
4.5.3 TEST PROCEDURE

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.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITIONS

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

4.5.7 TEST RESULTS (MODE 1)

802.11a

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK VALUE (dBm) | PPSD (dBm) | PEAK EXCURSION (dB) | LIMIT (dB) | PASS/FAIL |
|---------|-------------------------------|------------------------|---------------|---------------------------|---------------|-----------|
| 52 | 5260 | 15.38 | 5.25 | 10.13 | 13 | PASS |
| 60 | 5300 | 15.77 | 5.85 | 9.92 | 13 | PASS |
| 64 | 5320 | 11.54 | 1.32 | 10.22 | 13 | PASS |
| 100 | 5500 | 13.13 | 2.83 | 10.30 | 13 | PASS |
| 116 | 5580 | 12.80 | 4.27 | 8.53 | 13 | PASS |
| 132 | 5660 | 13.48 | 4.49 | 8.99 | 13 | PASS |
| 140 | 5700 | 7.43 | -2.08 | 9.51 | 13 | PASS |

802.11n (HT20)

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK VALUE (dBm) | PPSD (dBm) | PEAK EXCURSION (dB) | LIMIT (dB) | PASS/FAIL |
|---------|-------------------------------|------------------------|---------------|---------------------------|---------------|-----------|
| 52 | 5260 | 13.69 | 5.11 | 8.58 | 13 | PASS |
| 60 | 5300 | 14.13 | 5.65 | 8.48 | 13 | PASS |
| 64 | 5320 | 9.85 | 1.11 | 8.74 | 13 | PASS |
| 100 | 5500 | 10.06 | 0.85 | 9.21 | 13 | PASS |
| 116 | 5580 | 12.55 | 3.66 | 8.89 | 13 | PASS |
| 132 | 5660 | 13.35 | 4.82 | 8.53 | 13 | PASS |
| 140 | 5700 | 7.70 | -1.50 | 9.20 | 13 | PASS |



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802.11n (HT40)

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK VALUE (dBm) | PPSD (dBm) | PEAK EXCURSION (dB) | LIMIT (dB) | PASS/FAIL |
|---------|-------------------------------|------------------------|---------------|---------------------------|---------------|-----------|
| 54 | 5270 | 10.06 | 1.04 | 9.02 | 13 | PASS |
| 62 | 5310 | 3.33 | -5.37 | 8.70 | 13 | PASS |
| 102 | 5510 | 1.41 | -7.23 | 8.64 | 13 | PASS |
| 110 | 5550 | 8.07 | -0.74 | 8.81 | 13 | PASS |
| 134 | 5670 | 6.65 | -2.34 | 8.99 | 13 | PASS |

4.5.8 TEST RESULTS (MODE 2)

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 0 | CHAIN 1 | CHAIN 2 | CHAIN 0 | CHAIN 1 | CHAIN 2 | | |
| 52 | 5260 | 10.33 | 10.20 | 10.47 | 2.02 | 1.80 | 1.42 | 8.31 | 8.40 | 9.05 | 13 | PASS |
| 60 | 5300 | 8.59 | 8.87 | 9.39 | 0.30 | 0.27 | 0.10 | 8.29 | 8.60 | 9.29 | 13 | PASS |
| 64 | 5320 | 8.64 | 9.04 | 9.41 | 0.41 | 0.42 | 0.16 | 8.23 | 8.62 | 9.25 | 13 | PASS |
| 100 | 5500 | 7.32 | 7.74 | 7.99 | -1.05 | -0.58 | -1.29 | 8.37 | 8.32 | 9.28 | 13 | PASS |
| 116 | 5580 | 9.82 | 10.14 | 10.23 | 1.55 | 1.56 | 1.25 | 8.27 | 8.58 | 8.98 | 13 | PASS |
| 132 | 5660 | 5.84 | 6.13 | 6.77 | -2.36 | -1.99 | -2.18 | 8.20 | 8.12 | 8.95 | 13 | PASS |
| 140 | 5700 | 6.99 | 7.22 | 7.61 | -1.33 | -0.97 | -1.43 | 8.32 | 8.19 | 9.04 | 13 | PASS |

802.11n (HT20)

| CHAN. | CHAN. FREQ. (MHz) | PEAK VALUE (dBm) | | | DUTY FACTOR (dB) | PPSD WITH DUTY FACTOR (dBm) | | | PEAK EXCURSION (dB) | | | LIMIT (dB) | PASS/ FAIL |
|-------|-------------------|------------------|---------|---------|------------------|-----------------------------|---------|---------|---------------------|---------|---------|------------|------------|
| | | CHAIN 0 | CHAIN 1 | CHAIN 2 | | CHAIN 0 | CHAIN 1 | CHAIN 2 | CHAIN 0 | CHAIN 1 | CHAIN 2 | | |
| 52 | 5260 | 13.82 | 14.45 | 13.80 | 0.13 | 4.57 | 4.42 | 4.09 | 9.25 | 10.03 | 9.71 | 13 | PASS |
| 60 | 5300 | 11.68 | 13.37 | 12.50 | 0.13 | 3.11 | 2.96 | 2.79 | 8.57 | 10.41 | 9.71 | 13 | PASS |
| 64 | 5320 | 12.69 | 13.56 | 12.60 | 0.13 | 3.32 | 3.15 | 3.03 | 9.37 | 10.41 | 9.57 | 13 | PASS |
| 100 | 5500 | 11.03 | 12.34 | 12.03 | 0.13 | 2.41 | 2.53 | 1.97 | 8.62 | 9.81 | 10.06 | 13 | PASS |
| 116 | 5580 | 12.90 | 13.54 | 13.38 | 0.13 | 3.57 | 3.36 | 3.31 | 9.33 | 10.18 | 10.07 | 13 | PASS |
| 132 | 5660 | 11.26 | 12.49 | 12.66 | 0.13 | 2.70 | 2.52 | 2.56 | 8.56 | 9.97 | 10.10 | 13 | PASS |
| 140 | 5700 | 11.62 | 11.77 | 11.77 | 0.13 | 1.97 | 1.85 | 1.53 | 9.65 | 9.92 | 10.24 | 13 | PASS |



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802.11n (HT40)

| CHAN. | CHAN. FREQ. (MHz) | PEAK VALUE (dBm) | | | DUTY FACTOR (dB) | PPSD WITH DUTY FACTOR (dBm) | | | PEAK EXCURSION (dB) | | | LIMIT (dB) | PASS/ FAIL |
|-------|-------------------------|---------------------|------------|------------|------------------------|-----------------------------------|------------|------------|------------------------|------------|------------|---------------|---------------|
| | | CHAIN 0 | CHAIN 1 | CHAIN 2 | | CHAIN 0 | CHAIN 1 | CHAIN 2 | CHAIN 0 | CHAIN 1 | CHAIN 2 | | |
| 54 | 5270 | 10.65 | 12.37 | 11.36 | 0.19 | 1.82 | 1.54 | 1.50 | 8.83 | 10.83 | 9.86 | 13 | PASS |
| 62 | 5310 | 9.49 | 9.36 | 9.40 | 0.19 | -0.44 | -0.81 | -0.90 | 9.93 | 10.17 | 10.30 | 13 | PASS |
| 102 | 5510 | 7.28 | 9.59 | 8.07 | 0.19 | -1.60 | -1.48 | -1.98 | 8.88 | 11.07 | 10.05 | 13 | PASS |
| 110 | 5550 | 9.78 | 11.90 | 10.85 | 0.19 | 0.96 | 0.82 | 0.73 | 8.82 | 11.08 | 10.12 | 13 | PASS |
| 134 | 5670 | 10.37 | 10.78 | 10.10 | 0.19 | 0.39 | 0.40 | 0.36 | 9.98 | 10.38 | 9.74 | 13 | PASS |

802.11ac (VHT80)

| CHAN. | CHAN. FREQ. (MHz) | PEAK VALUE (dBm) | | | DUTY FACTOR (dB) | PPSD WITH DUTY FACTOR (dBm) | | | PEAK EXCURSION (dB) | | | LIMIT (dB) | PASS/ FAIL |
|-------|-------------------------|---------------------|------------|------------|------------------------|-----------------------------------|------------|------------|------------------------|------------|------------|---------------|---------------|
| | | CHAIN 0 | CHAIN 1 | CHAIN 2 | | CHAIN 0 | CHAIN 1 | CHAIN 2 | CHAIN 0 | CHAIN 1 | CHAIN 2 | | |
| 58 | 5290 | 7.73 | 8.62 | 8.27 | 0.39 | -1.71 | -1.76 | -1.67 | 9.44 | 10.38 | 9.94 | 13 | PASS |
| 106 | 5530 | 3.04 | 4.60 | 4.19 | 0.39 | -6.00 | -5.45 | -5.98 | 9.04 | 10.05 | 10.17 | 13 | PASS |



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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 INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|---|----------------------|-------------|-----------------|------------------|
| Spectrum Analyzer R&S | FSP 40 | 100036 | Jan. 21, 2013 | Jan. 20, 2014 |
| Temperature & Humidity Chamber GIANTFORCE | GTH-150-40 -SP-AR | MAA0812-008 | Jan. 17, 2013 | Jan. 16, 2014 |

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. Tested date : Aug. 05 to 08, 2013

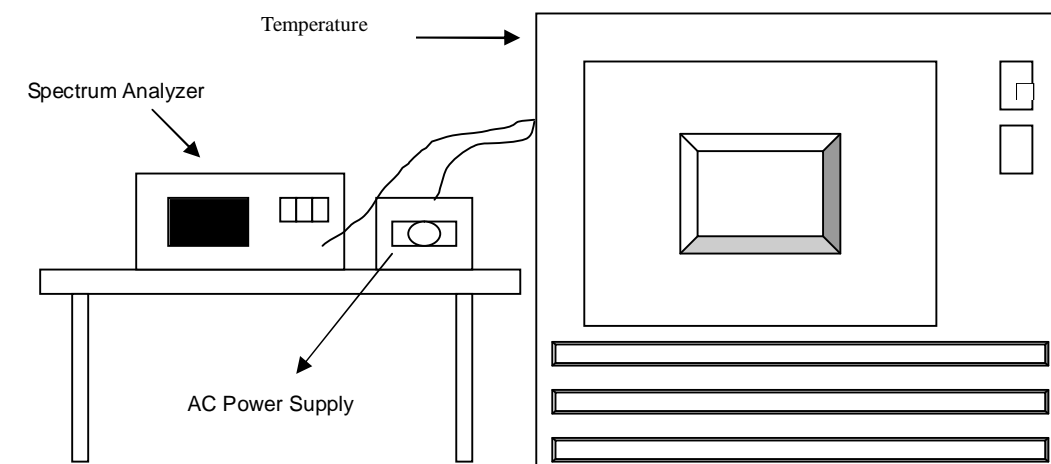
4.6.3 TEST PROCEDURE

1. The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
2. Turn the EUT on and couple its output to a spectrum analyzer.
3. Turn the EUT off and set the chamber to the highest temperature specified.
4. 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.
5. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
6. 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.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 TEST SETUP



4.6.6 EUT OPERATING CONDITION

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

4.6.7 TEST RESULTS (MODE 1)

| FREQUENCY STABILITY VERSUS TEMP. | | | | | | | | | |
|----------------------------------|--------------------------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|--------------------|
| OPERATING FREQUENCY: 5320MHz | | | | | | | | | |
| TEMP. (°C) | POWER SUPPLY (Vac) | 0 MINUTE | | 2 MINUTE | | 5 MINUTE | | 10 MINUTE | |
| | | Measured Frequency | Frequency Drift | Measured Frequency | Frequency Drift | Measured Frequency | Frequency Drift | Measured Frequency | Frequency Drift |
| | | (MHz) | % | (MHz) | % | (MHz) | % | (MHz) | % |
| 50 | 120 | 5320.0036 | 0.00007 | 5319.9979 | -0.00004 | 5320.0062 | 0.00012 | 5319.9972 | -0.00005 |
| 40 | 120 | 5320.0303 | 0.00057 | 5320.0293 | 0.00055 | 5320.0213 | 0.00040 | 5320.0293 | 0.00055 |
| 30 | 120 | 5320.0268 | 0.00050 | 5320.0234 | 0.00044 | 5320.0204 | 0.00038 | 5320.0199 | 0.00037 |
| 20 | 120 | 5320.0049 | 0.00009 | 5320.005 | 0.00009 | 5320.0064 | 0.00012 | 5320.0036 | 0.00007 |
| 10 | 120 | 5319.9884 | -0.00022 | 5319.9814 | -0.00035 | 5319.9896 | -0.00020 | 5319.9832 | -0.00032 |
| 0 | 120 | 5320.0284 | 0.00053 | 5320.0229 | 0.00043 | 5320.0274 | 0.00052 | 5320.0249 | 0.00047 |
| -10 | 120 | 5320.0267 | 0.00050 | 5320.0213 | 0.00040 | 5320.0286 | 0.00054 | 5320.0188 | 0.00035 |
| -20 | 120 | 5320.0077 | 0.00014 | 5320.001 | 0.00002 | 5320.0092 | 0.00017 | 5320.0095 | 0.00018 |
| -30 | 120 | 5319.9791 | -0.00039 | 5319.9781 | -0.00041 | 5319.9722 | -0.00052 | 5319.9713 | -0.00054 |

| FREQUENCY STABILITY VERSUS VOLTAGE | | | | | | | | | |
|------------------------------------|--------------------------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|--------------------|
| OPERATING FREQUENCY: 5320MHz | | | | | | | | | |
| TEMP. (°C) | POWER SUPPLY (Vac) | 0 MINUTE | | 2 MINUTE | | 5 MINUTE | | 10 MINUTE | |
| | | Measured Frequency | Frequency Drift | Measured Frequency | Frequency Drift | Measured Frequency | Frequency Drift | Measured Frequency | Frequency Drift |
| | | (MHz) | % | (MHz) | % | (MHz) | % | (MHz) | % |
| 20 | 138 | 5320.0057 | 0.00011 | 5320.0046 | 0.00009 | 5320.0063 | 0.00012 | 5320.0029 | 0.00005 |
| | 120 | 5320.0049 | 0.00009 | 5320.005 | 0.00009 | 5320.0064 | 0.00012 | 5320.0036 | 0.00007 |
| | 102 | 5320.0051 | 0.00010 | 5320.0043 | 0.00008 | 5320.0055 | 0.00010 | 5320.0042 | 0.00008 |



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4.6.8 TEST RESULTS (MODE 2)

| FREQUENCY STABILITY VERSUS TEMP. | | | | | | | | | |
|----------------------------------|--------------------------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|--------------------|
| OPERATING FREQUENCY: 5320MHz | | | | | | | | | |
| TEMP. (°C) | POWER SUPPLY (Vac) | 0 MINUTE | | 2 MINUTE | | 5 MINUTE | | 10 MINUTE | |
| | | Measured Frequency | Frequency Drift | Measured Frequency | Frequency Drift | Measured Frequency | Frequency Drift | Measured Frequency | Frequency Drift |
| | | (MHz) | % | (MHz) | % | (MHz) | % | (MHz) | % |
| 50 | 120 | 5319.9731 | -0.00051 | 5319.9705 | -0.00055 | 5319.969 | -0.00058 | 5319.9698 | -0.00057 |
| 40 | 120 | 5319.9695 | -0.00057 | 5319.9754 | -0.00046 | 5319.9704 | -0.00056 | 5319.9762 | -0.00045 |
| 30 | 120 | 5320.0139 | 0.00026 | 5320.0139 | 0.00026 | 5320.0106 | 0.00020 | 5320.0105 | 0.00020 |
| 20 | 120 | 5320.0088 | 0.00017 | 5320.0083 | 0.00016 | 5320.0166 | 0.00031 | 5320.0096 | 0.00018 |
| 10 | 120 | 5320.0102 | 0.00019 | 5320.0033 | 0.00006 | 5320.0039 | 0.00007 | 5320.0063 | 0.00012 |
| 0 | 120 | 5320.019 | 0.00036 | 5320.0145 | 0.00027 | 5320.0217 | 0.00041 | 5320.0198 | 0.00037 |
| -10 | 120 | 5319.9947 | -0.00010 | 5319.9931 | -0.00013 | 5319.9904 | -0.00018 | 5319.9897 | -0.00019 |
| -20 | 120 | 5320.0089 | 0.00017 | 5320.001 | 0.00002 | 5320.0061 | 0.00011 | 5320.004 | 0.00008 |
| -30 | 120 | 5320.0207 | 0.00039 | 5320.0253 | 0.00048 | 5320.0267 | 0.00050 | 5320.0231 | 0.00043 |

| FREQUENCY STABILITY VERSUS VOLTAGE | | | | | | | | | |
|------------------------------------|--------------------------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|--------------------|
| OPERATING FREQUENCY: 5320MHz | | | | | | | | | |
| TEMP. (°C) | POWER SUPPLY (Vac) | 0 MINUTE | | 2 MINUTE | | 5 MINUTE | | 10 MINUTE | |
| | | Measured Frequency | Frequency Drift | Measured Frequency | Frequency Drift | Measured Frequency | Frequency Drift | Measured Frequency | Frequency Drift |
| | | (MHz) | % | (MHz) | % | (MHz) | % | (MHz) | % |
| 20 | 138 | 5320.0097 | 0.00018 | 5320.0077 | 0.00014 | 5320.016 | 0.00030 | 5320.0092 | 0.00017 |
| | 120 | 5320.0088 | 0.00017 | 5320.0083 | 0.00016 | 5320.0166 | 0.00031 | 5320.0096 | 0.00018 |
| | 102 | 5320.0092 | 0.00017 | 5320.0087 | 0.00016 | 5320.0158 | 0.00030 | 5320.0098 | 0.00018 |

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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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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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 ---