

FCC Test Report (DFS Band)

Report No.: RF170320E01C-1

FCC ID: H8NTEG310

Test Model: TCG310

Series Model: TCG310, TCG310XXXXXX (X=0~9,A-Z,a-z," -" ," ." or blank for marketing)

Received Date: Aug. 10, 2017

Test Date: Aug. 17 to Sep. 06 , 2017

Issued Date: Sep. 22, 2017

Applicant: ASKEY COMPUTER CORP.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory

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Release Control Record

| Issue No. | Description | Date Issued |
|----------------|-------------------|---------------|
| RF170320E01C-1 | Original release. | Sep. 22, 2017 |

1 Certificate of Conformity

Product: Cable Modem
Brand: ASKEY
Test Model: TCG310
Series Model: TCG310, TCG310XXXXXX (X=0~9,A-Z,a-z,"-", "." or blank for marketing)
Sample Status: ENGINEERING SAMPLE
Applicant: ASKEY COMPUTER CORP.
Test Date: Aug. 17 to Sep. 06 , 2017
Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
ANSI C63.10: 2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :  _____ , **Date:** Sep. 22, 2017
Wendy Wu / Specialist

Approved by :  _____ , **Date:** Sep. 22, 2017
May Chen / Manager

2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart E (Section 15.407) | | | |
|--|---|--------|---|
| FCC Clause | Test Item | Result | Remarks |
| 15.407(b)(6) | AC Power Conducted Emissions | Pass | Meet the requirement of limit. Minimum passing margin is -12.47dB at 0.38047MHz. |
| 15.407(b) (1/2/3/4(i/ii)/6) | Radiated Emissions & Band Edge Measurement* | Pass | Meet the requirement of limit. Minimum passing margin is -0.1dB at 5351MHz. |
| 15.407(a)(1/2/3) | Max Average Transmit Power | Pass | Meet the requirement of limit. |
| --- | Occupied Bandwidth Measurement | - | Reference only. |
| 15.407(a)(1/2/3) | Peak Power Spectral Density | Pass | Meet the requirement of limit. |
| 15.407(e) | 6dB bandwidth | Pass | Meet the requirement of limit. (U-NII-3 Band only) |
| 15.407(g) | Frequency Stability | Pass | Meet the requirement of limit. |
| 15.203 | Antenna Requirement | Pass | Antenna connector is i-pex(MHF) not a standard connector. |

2.1 Measurement Uncertainty

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

| Measurement | Frequency | Expanded Uncertainty (k=2) (±) |
|------------------------------------|----------------|--------------------------------|
| Conducted Emissions at mains ports | 150kHz ~ 30MHz | 1.84 dB |
| Radiated Emissions up to 1 GHz | 30MHz ~ 1GHz | 5.30 dB |
| Radiated Emissions above 1 GHz | 1GHz ~ 6GHz | 5.16 dB |
| | 6GHz ~ 18GHz | 4.91 dB |
| | 18GHz ~ 40GHz | 5.30 dB |

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT (DFS Band)

| | |
|-----------------------|--|
| Product | Cable Modem |
| Brand | ASKEY |
| Test Model | TCG310 |
| Series Model | TCG310, TCG310XXXXXX (X=0~9,A-Z,a-z," -" , " ." or blank for marketing) |
| Status of EUT | ENGINEERING SAMPLE |
| Power Supply Rating | DC 12V from power adapter |
| 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 600Mbps 802.11ac: up to 1733.3Mbps |
| Operating Frequency | 5.26GHz ~ 5.32GHz, 5.50GHz ~ 5.72GHz |
| Number of Channel | 802.11a, 802.11n (HT20), 802.11ac (VHT20): 16 802.11n (HT40), 802.11ac (VHT40): 8 802.11ac (VHT80): 4 |
| Output Power | 5.26 ~ 5.32GHz: CDD Mode: 165.067mW Beamforming Mode: 83.595mW 5.50 ~ 5.72GHz: CDD Mode: 175.464mW Beamforming Mode: 78.349mW |
| Antenna Type | Refer to Note |
| Antenna Connector | Refer to Note |
| Accessory Device | Adapter x 1 |
| Data Cable Supplied | NA |

Note:

- This report is prepared for FCC class II permissive change. The difference compared with the Report No.: RF170320E01B-1 as the following:
 - ◆ Add DFS band <5.26 ~ 5.32GHz, 5.5 ~ 5.72GHz>
- According to above condition, all test items need to be performed. And all data weres verified to meet the requirements.
- The EUT has below model names, which are identical to each other in all aspects except for the following:

| Brand | Model No. | Different |
|-------|---|-----------------------|
| ASKEY | TCG310 | For Marketing request |
| | TCG310XXXXXX (X=0~9,A-Z,a-z," -" , " ." or blank for marketing) | |

From the above models, model: **TCG310** was selected as representative model for the test and its data was recorded in this report.

4. Simultaneously transmission condition.

| Condition | Technology | |
|-----------|-------------|-----------|
| 1 | WLAN 2.4GHz | WLAN 5GHz |

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

5. The EUT must be supplied with a power adapter and following different models could be chosen as following table:

| No | Brand Name | Model No. | Spec. |
|----|------------|-----------------|--|
| 1 | LEI | MU42-3120350-A1 | Input: 100-240Vac, 50/60Hz, 1.5A Output: 12Vdc, 3.5A DC output cable: 1.5m, unshielded |
| 2 | Sunny | SYS1570-4212-W2 | Input: 100-240Vac, 50-60Hz, 1.5A Output: 12Vdc, 3.5A DC output cable: 1.5m, unshielded |

Note: From the above adapters, the worst radiated test was found in **Adapter 1**. Therefore only the test data of the modes were recorded in this report.

6. The antennas provided to the EUT, please refer to the following table:

| Set 1 | | | | | | | |
|-------------|---------------|--------|--------------------|-----------------------|--------------|----------------|-------------------|
| Antenna No. | PCB Chain No. | Brand | Ant. Net Gain(dBi) | Frequency range (GHz) | Antenna Type | Connector Type | Cable Length (mm) |
| 1 | 2.4G-chain 3 | HONGBO | 3.57 | 2.4~2.4835 | PCB | none | - |
| | 5G-chain 0 | | 3.48 | 5.15~5.35 | | | |
| | | | 3.35 | 5.47~5.725 | | | |
| | | | 2.79 | 5.725~5.85 | | | |
| 2 | 5G-chain 1 | | 3.89 | 5.15~5.35 | Dipole | i-pex(MHF) | 95 |
| | | | 4.16 | 5.47~5.725 | | | |
| | | | 4.04 | 5.725~5.85 | | | |
| 3 | 2.4G-chain 1 | | 3.99 | 2.4~2.4835 | Dipole | i-pex(MHF) | 75 |
| | 5G-chain 2 | | 3.89 | 5.15~5.35 | | | |
| | | | 3.66 | 5.47~5.725 | | | |
| | | | 3.83 | 5.725~5.85 | | | |
| 4 | 2.4G-chain 0 | | 3.26 | 2.4~2.4835 | Dipole | i-pex(MHF) | 295 |
| | 5G-chain 3 | 3.9 | 5.15~5.35 | | | | |
| | | 3.92 | 5.47~5.725 | | | | |
| | | 4.49 | 5.725~5.85 | | | | |

Set 2

| Antenna No. | PCB Chain No. | Brand | Ant. Net Gain(dBi) | Frequency range (GHz) | Antenna Type | Connector Type | Cable Length (mm) |
|-------------|---------------|-------|--------------------|-----------------------|--------------|----------------|-------------------|
| 1 | 2.4G-chain 3 | TSKY | 3.57 | 2.4~2.4835 | PCB | none | - |
| | 5G-chain 0 | | 3.48 | 5.15~5.35 | | | |
| | | | 3.35 | 5.47~5.725 | | | |
| | | | 2.79 | 5.725~5.85 | | | |
| 2 | 5G-chain 1 | | 2.93 | 5.15~5.35 | PIFA | i-pex(MHF) | 93 |
| | | | 2.69 | 5.47~5.725 | | | |
| | | | 2.76 | 5.725~5.85 | | | |
| 3 | 2.4G-chain 1 | | 3.2 | 2.4~2.4835 | PIFA | i-pex(MHF) | 71 |
| | 5G-chain 2 | | 3.48 | 5.15~5.35 | | | |
| | | | 3.23 | 5.47~5.725 | | | |
| | | | 3.34 | 5.725~5.85 | | | |
| 4 | 2.4G-chain 0 | | 2.12 | 2.4~2.4835 | Dipole | i-pex(MHF) | 290 |
| | 5G-chain 3 | 2.61 | 5.15~5.35 | | | | |
| | | 2.36 | 5.47~5.725 | | | | |
| | | 2.52 | 5.725~5.85 | | | | |

Set 3

| Antenna No. | PCB Chain No. | Brand | Ant. Net Gain(dBi) | Frequency range (GHz) | Antenna Type | Connector Type | Cable Length (mm) |
|-------------|---------------|-------------|--------------------|-----------------------|--------------|----------------|-------------------|
| 1 | 2.4G-chain 3 | Master Wave | 3.57 | 2.4~2.4835 | PCB | none | - |
| | 5G-chain 0 | | 3.48 | 5.15~5.35 | | | |
| | | | 3.35 | 5.47~5.725 | | | |
| | | | 2.79 | 5.725~5.85 | | | |
| 2 | 5G-chain 1 | | 5.96 | 5.15~5.35 | Dipole | i-pex(MHF) | 95 |
| | | | 7.51 | 5.47~5.725 | | | |
| | | | 7.39 | 5.725~5.85 | | | |
| 3 | 2.4G-chain 1 | | 4.52 | 2.4~2.4835 | Dipole | i-pex(MHF) | 58 |
| | 5G-chain 2 | | 4.9 | 5.15~5.35 | | | |
| | | | 3.95 | 5.47~5.725 | | | |
| | | | 3.38 | 5.725~5.85 | | | |
| 4 | 2.4G-chain 0 | | 3.41 | 2.4~2.4835 | Dipole | i-pex(MHF) | 285 |
| | 5G-chain 3 | 4.23 | 5.15~5.35 | | | | |
| | | 4.57 | 5.47~5.725 | | | | |
| | | 3.76 | 5.725~5.85 | | | | |

7. The EUT incorporates a MIMO function.

| For 2.4GHz Band | | | |
|-------------------------|------------------------|----------------------------------|-------------------|
| MODULATION MODE | DATA RATE (MCS) | TX & RX CONFIGURATION | |
| 802.11b | 1 ~ 11Mbps | 1TX Fixed Chain 0 | 1RX Fixed Chain 0 |
| 802.11g | 6 ~ 54Mbps | 3TX | 3RX |
| 802.11n (HT20) | MCS 0~7 | 3TX | 3RX |
| | MCS 8~15 | 3TX | 3RX |
| | MCS 16~23 | 3TX | 3RX |
| 802.11n (HT40) | MCS 0~7 | 3TX | 3RX |
| | MCS 8~15 | 3TX | 3RX |
| | MCS 16~23 | 3TX | 3RX |
| 5GHz Band | | | |
| MODULATION MODE | DATA RATE (MCS) | TX & RX CONFIGURATION | |
| 802.11a | 6 ~ 54Mbps | 4TX | 4RX |
| 802.11n (HT20) | MCS 0~7 | 4TX | 4RX |
| | MCS 8~15 | 4TX | 4RX |
| | MCS 16~23 | 4TX | 4RX |
| | MCS 24~31 | 4TX | 4RX |
| | MCS 0~7 | 4TX | 4RX |
| 802.11n (HT40) | MCS 8~15 | 4TX | 4RX |
| | MCS 16~23 | 4TX | 4RX |
| | MCS 24~31 | 4TX | 4RX |
| | MCS 0~8, Nss=1 | 4TX | 4RX |
| 802.11ac (VHT20) | MCS 0~8, Nss=2 | 4TX | 4RX |
| | MCS 0~9, Nss=3 | 4TX | 4RX |
| | MCS 0~8, Nss=4 | 4TX | 4RX |
| | MCS 0~9, Nss=1 | 4TX | 4RX |
| 802.11ac (VHT40) | MCS 0~9, Nss=2 | 4TX | 4RX |
| | MCS 0~9, Nss=3 | 4TX | 4RX |
| | MCS 0~9, Nss=4 | 4TX | 4RX |
| | MCS 0~9, Nss=1 | 4TX | 4RX |
| 802.11ac (VHT80) | MCS 0~9, Nss=2 | 4TX | 4RX |
| | MCS 0~9, Nss=3 | 4TX | 4RX |
| | MCS 0~9, Nss=4 | 4TX | 4RX |
| | MCS 0~9, Nss=4 | 4TX | 4RX |

Note:

1. All of modulation mode support beamforming function except 802.11a/b/g modulation mode.
2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
3. 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)

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

3.2 Description of Test Modes

FOR 5260 ~ 5320MHz

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 | Channel | Frequency |
|---------|-----------|---------|-----------|
| 54 | 5270 MHz | 62 | 5310 MHz |

1 channel is provided for 802.11ac (VHT80):

| Channel | Frequency |
|---------|-----------|
| 58 | 5290 MHz |

FOR 5500 ~ 5720MHz

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

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 100 | 5500 MHz | 124 | 5620 MHz |
| 104 | 5520 MHz | 128 | 5640 MHz |
| 108 | 5540 MHz | 132 | 5660 MHz |
| 112 | 5560 MHz | 136 | 5680 MHz |
| 116 | 5580 MHz | 140 | 5700 MHz |
| 120 | 5600 MHz | 144 | 5720 MHz |

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

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 102 | 5510 MHz | 126 | 5630 MHz |
| 110 | 5550 MHz | 134 | 5670 MHz |
| 118 | 5590 MHz | 142 | 5710 MHz |

3 channels are provided for 802.11ac (VHT80):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 106 | 5530 MHz | 122 | 5610 MHz |
| 138 | 5690 MHz | | |

3.2.1 Test Mode Applicability and Tested Channel Detail

| EUT Configure Mode | Applicable To | | | | Description |
|--------------------|---------------|-----------|-----|------|------------------------------|
| | RE \geq 1G | RE $<$ 1G | PLC | APCM | |
| 1 | √ | √ | √ | √ | Antenna Set 3 with Adapter 1 |
| 2 | √ | √ | - | - | Antenna Set 2 with Adapter 1 |
| 3 | - | - | √ | - | Antenna Set 3 with Adapter 2 |

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

RE $<$ 1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

NOTE: "-" means no effect.

Radiated Emission Test (Above 1GHz):

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

| CDD Mode | | | | | | |
|------------------|------------------|-------------------|--------------------|-----------------------|-----------------|------------------|
| Mode | FREQ. Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate (Mbps) |
| 802.11a | 5260-5320 | 52 to 64 | 52, 60, 64 | OFDM | BPSK | 6 |
| 802.11ac (VHT20) | | 52 to 64 | 52, 60, 64 | OFDM | BPSK | 6.5 |
| 802.11ac (VHT40) | | 54 to 62 | 54, 62 | OFDM | BPSK | 13.5 |
| 802.11ac (VHT80) | | 58 | 58 | OFDM | BPSK | 29.3 |
| 802.11a | 5500-5720 | 100 to 144 | 100, 116, 140, 144 | OFDM | BPSK | 6 |
| 802.11ac (VHT20) | | 100 to 144 | 100, 116, 140, 144 | OFDM | BPSK | 6.5 |
| 802.11ac (VHT40) | | 102 to 142 | 102, 110, 134, 142 | OFDM | BPSK | 13.5 |
| 802.11ac (VHT80) | | 106 to 138 | 106, 122, 138 | OFDM | BPSK | 29.3 |

Radiated Emission Test (Below 1GHz):

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

| CDD Mode | | | | | | |
|------------------|------------------------|-------------------|----------------|-----------------------|-----------------|------------------|
| Mode | FREQ. Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate (Mbps) |
| 802.11ac (VHT80) | 5260-5320 5500-5720 | 58 106 to 138 | 122 | OFDM | BPSK | 29.3 |

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.

| CDD Mode | | | | | | |
|------------------|------------------------|-------------------|----------------|-----------------------|-----------------|------------------|
| Mode | FREQ. Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate (Mbps) |
| 802.11ac (VHT80) | 5260-5320 5500-5720 | 58 106 to 138 | 122 | OFDM | BPSK | 29.3 |

Antenna Port Conducted Measurement:

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

| CDD Mode | | | | | | |
|--------------------------------------|------------------|-------------------|--------------------|-----------------------|-----------------|------------------|
| Mode | FREQ. Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate (Mbps) |
| 802.11a | 5260-5320 | 52 to 64 | 52, 60, 64 | OFDM | BPSK | 6 |
| 802.11ac (VHT20) | | 52 to 64 | 52, 60, 64 | OFDM | BPSK | 6.5 |
| 802.11ac (VHT40) | | 54 to 62 | 54, 62 | OFDM | BPSK | 13.5 |
| 802.11ac (VHT80) | | 58 | 58 | OFDM | BPSK | 29.3 |
| 802.11a | 5500-5720 | 100 to 144 | 100, 116, 140, 144 | OFDM | BPSK | 6 |
| 802.11ac (VHT20) | | 100 to 144 | 100, 116, 140, 144 | OFDM | BPSK | 6.5 |
| 802.11ac (VHT40) | | 102 to 142 | 102, 110, 134, 142 | OFDM | BPSK | 13.5 |
| 802.11ac (VHT80) | | 106 to 138 | 106, 122, 138 | OFDM | BPSK | 29.3 |
| Beamforming Mode (Output power only) | | | | | | |
| Mode | FREQ. Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate (Mbps) |
| 802.11ac (VHT20) | 5260-5320 | 52 to 64 | 52, 60, 64 | OFDM | BPSK | 6.5 |
| 802.11ac (VHT40) | | 54 to 62 | 54, 62 | OFDM | BPSK | 13.5 |
| 802.11ac (VHT80) | | 58 | 58 | OFDM | BPSK | 29.3 |
| 802.11ac (VHT20) | 5500-5720 | 100 to 144 | 100, 116, 140, 144 | OFDM | BPSK | 6.5 |
| 802.11ac (VHT40) | | 102 to 142 | 102, 110, 134, 142 | OFDM | BPSK | 13.5 |
| 802.11ac (VHT80) | | 106 to 138 | 106, 122, 138 | OFDM | BPSK | 29.3 |

Test Condition:

| Applicable To | Environmental Conditions | Input Power | Tested By |
|---------------|--------------------------|--------------|--------------|
| RE \geq 1G | 24deg. C, 70%RH | 120Vac, 60Hz | Andy Ho |
| RE $<$ 1G | 23deg. C, 65%RH | 120Vac, 60Hz | Jyunchun Lin |
| PLC | 23deg. C, 66%RH | 120Vac, 60Hz | Bear Lee |
| APCM | 25deg. C, 60%RH | 120Vac, 60Hz | Robert Cheng |

3.3 Duty Cycle of Test Signal

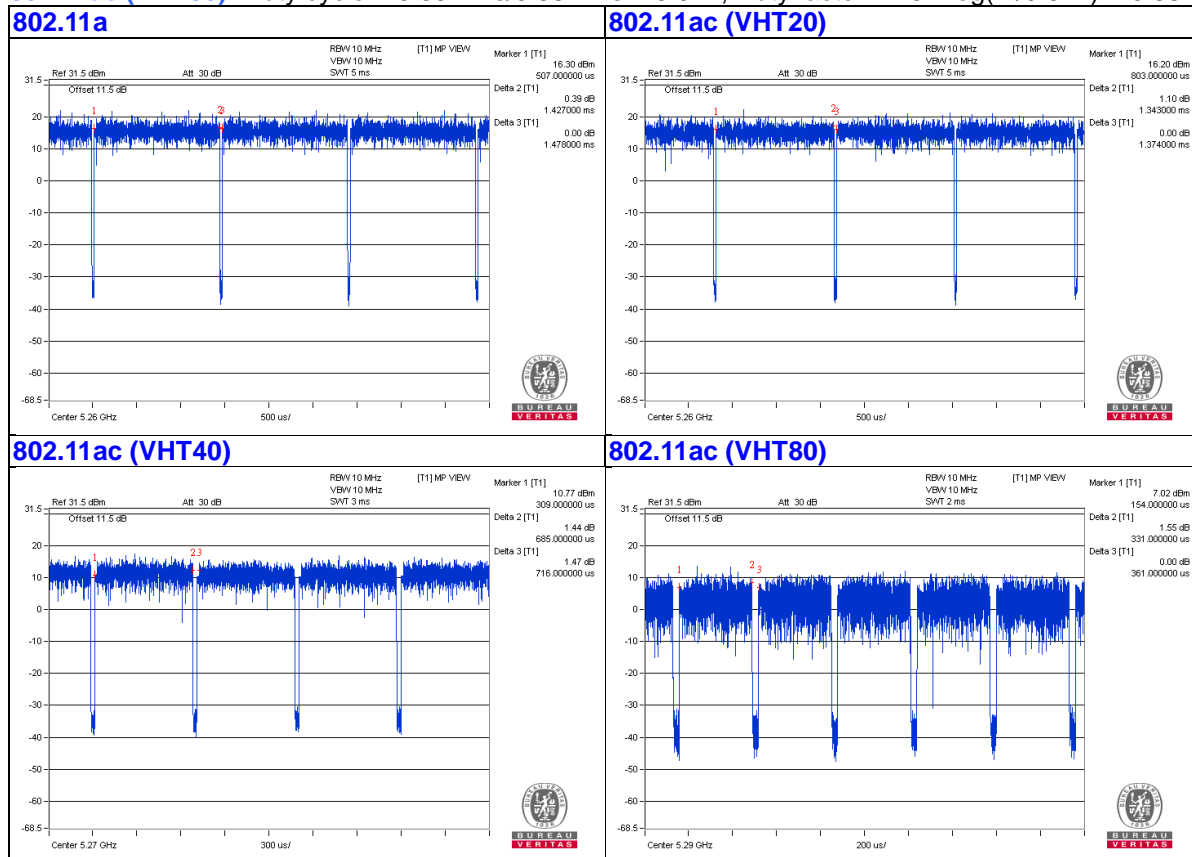
If duty cycle of test signal is < 98%, duty factor shall be considered.

802.11a: Duty cycle = 1.427 ms/1.478 ms = 0.965, Duty factor = $10 * \log(1/0.965) = 0.15$

802.11ac (VHT20): Duty cycle = 1.343 ms/1.374 ms = 0.977, Duty factor = $10 * \log(1/0.977) = 0.10$

802.11ac (VHT40): Duty cycle = 0.685 ms/0.716 ms = 0.957, Duty factor = $10 * \log(1/0.957) = 0.19$

802.11ac (VHT80): Duty cycle = 0.331 ms/0.361 ms = 0.917, Duty factor = $10 * \log(1/0.917) = 0.38$



3.4 Description of Support Units

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

For Conducted Emission Test:

| ID | Product | Brand | Model No. | Serial No. | FCC ID | Remarks |
|----|-----------|-------------|-----------|---------------|---------|--------------------|
| A. | CMTS | CASA system | C220 | NA | NA | Supplied by client |
| B. | Laptop | DELL | E5430 | HYV4VY1 | FCC DoC | Provided by Lab |
| C. | HUB | ZyXEL | ES-116P | S060H02000215 | FCC DoC | Provided by Lab |
| D. | USB Disk | Nmicro | 16G | N/A | N/A | Supplied by client |
| E. | Telephone | DAISHO | DS-03 | N/A | N/A | Provided by Lab |
| F. | Telephone | Romeo | TE-812 | 97280903 | N/A | Provided by Lab |

Note:

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

| ID | Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks |
|----|---------------|------|------------|--------------------|--------------|--------------------|
| 1. | DC Cable | 1 | 1.5 | No | 0 | Supplied by client |
| 2. | Coaxial Cable | 1 | 10 | Yes | 0 | Provided by Lab |
| 3. | RJ-45 Cable | 1 | 10 | No | 0 | Provided by Lab |
| 4. | RJ-45 Cable | 3 | 10 | No | 0 | Provided by Lab |
| 5. | RJ-11 Cable | 1 | 1.8 | No | 0 | Provided by Lab |
| 6. | RJ-11 Cable | 1 | 1.8 | No | 0 | Provided by Lab |

For Radiated Emission Test:

| ID | Product | Brand | Model No. | Serial No. | FCC ID | Remarks |
|----|--------------|--------|------------------------|--------------|--------|--------------------|
| A. | Telephone | WONDER | WD-303 | 7C17KA 04011 | N/A | Provided by Lab |
| B. | Laptop | HP | Pavilion 14-ab023TU | 5CD5340WXZ | N/A | Provided by Lab |
| C. | USB 3.0 Disk | Nmicro | 16G | N/A | N/A | Supplied by client |

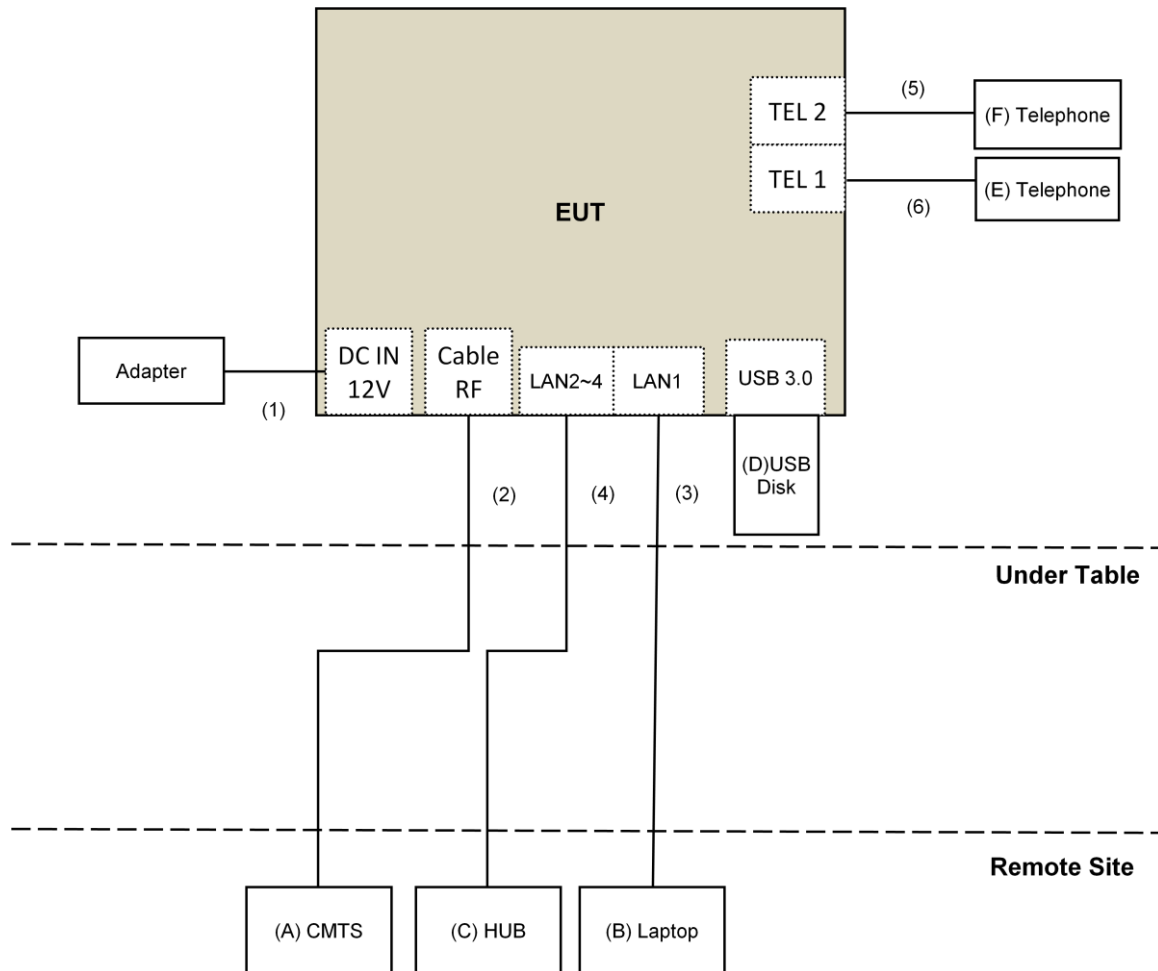
Note:

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

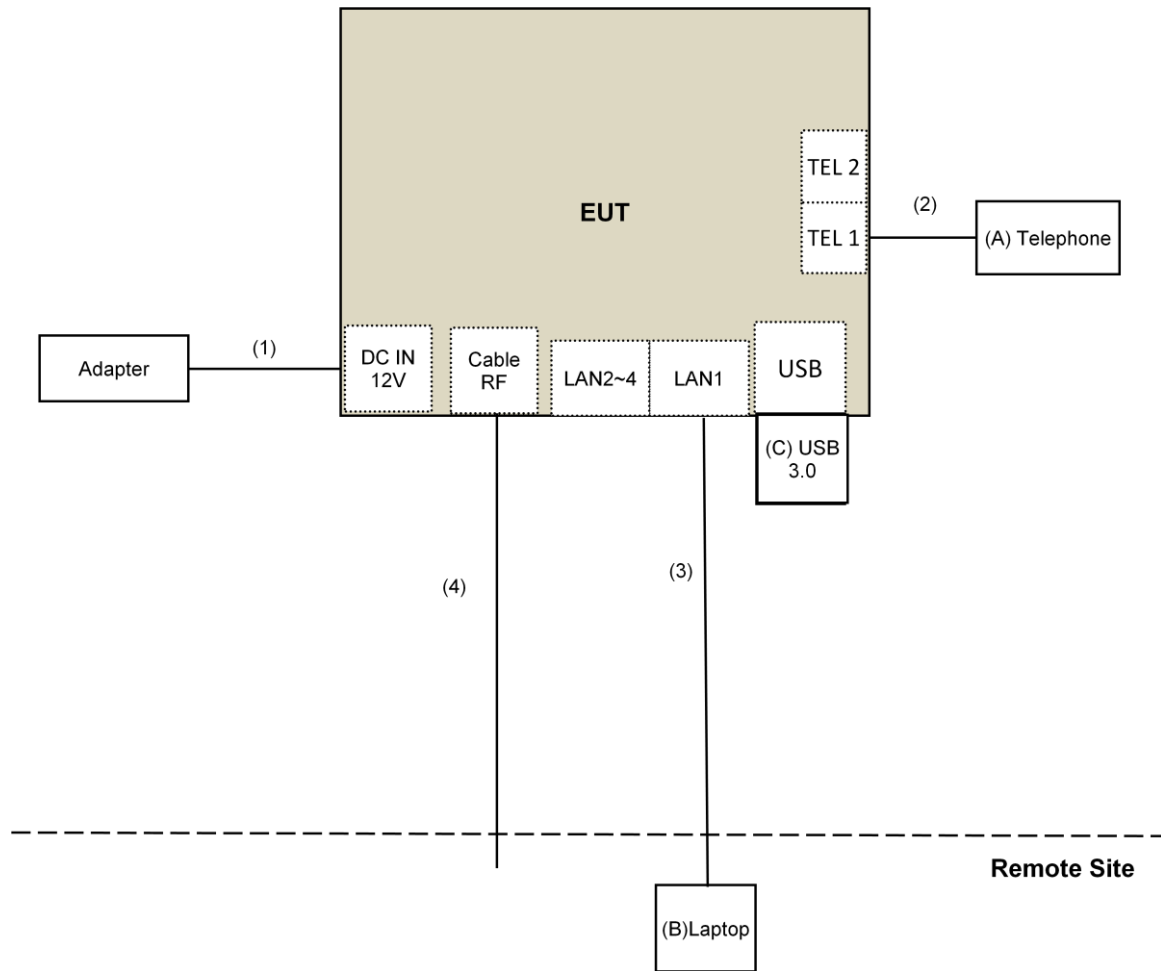
| ID | Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks |
|----|---------------|------|------------|--------------------|--------------|--------------------|
| 1. | DC Cable | 1 | 1.5 | No | 0 | Supplied by client |
| 2. | RJ-11 Cable | 1 | 1.8 | No | 0 | Provided by Lab |
| 3. | RJ-45 Cable | 1 | 10 | No | 0 | Provided by Lab |
| 4. | Coaxial Cable | 1 | 10 | Yes | 0 | Provided by Lab |

3.4.1 Configuration of System under Test

For Conducted Emission Test:



For Radiated Emission Test:



3.5 General Description of Applied Standard

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart E (15.407)
KDB 789033 D02 General UNII Test Procedure New Rules v01r04
KDB 662911 D01 Multiple Transmitter Output v02r01
ANSI C63.10-2013

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

NOTE: The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

| Frequencies (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 0.009 ~ 0.490 | 2400/F(kHz) | 300 |
| 0.490 ~ 1.705 | 24000/F(kHz) | 30 |
| 1.705 ~ 30.0 | 30 | 30 |
| 30 ~ 88 | 100 | 3 |
| 88 ~ 216 | 150 | 3 |
| 216 ~ 960 | 200 | 3 |
| Above 960 | 500 | 3 |

NOTE:

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

Limits of unwanted emission out of the restricted bands

| Applicable To | | Limit | |
|--|---|---|---|
| 789033 D02 General UNII Test Procedure New Rules v01r04 | | Field Strength at 3m | |
| | | PK:74 (dBuV/m) | AV:54 (dBuV/m) |
| Frequency Band | Applicable To | EIRP Limit | Equivalent Field Strength at 3m |
| 5150~5250 MHz | 15.407(b)(1) | PK:-27 (dBm/MHz) | PK:68.2(dBuV/m) |
| 5250~5350 MHz | 15.407(b)(2) | | |
| 5470~5725 MHz | 15.407(b)(3) | | |
| 5725~5850 MHz | <input checked="" type="checkbox"/> 15.407(b)(4)(i) | PK:-27 (dBm/MHz) ^{*1} PK:10 (dBm/MHz) ^{*2} PK:15.6 (dBm/MHz) ^{*3} PK:27 (dBm/MHz) ^{*4} | PK: 68.2(dBuV/m) ^{*1} PK:105.2 (dBuV/m) ^{*2} PK: 110.8(dBuV/m) ^{*3} PK:122.2 (dBuV/m) ^{*4} |
| | <input type="checkbox"/> 15.407(b)(4)(ii) | Emission limits in section 15.247(d) | |
| ^{*1} beyond 75 MHz or more above of the band edge. | | ^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. | |
| ^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. | | ^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. | |

Note:

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

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

4.1.2 Test Instruments

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|--|---|-------------------------------|---|---|
| Test Receiver Keysight | N9038A | MY54450088 | July 08, 2017 | July 07, 2018 |
| Pre-Amplifier ^(*) EMCI | EMC001340 | 980142 | Jan. 20, 2016 | Jan. 19, 2018 |
| Loop Antenna ^(*) Electro-Metrics | EM-6879 | 264 | Dec. 16, 2016 | Dec. 15, 2018 |
| RF Cable | NA | LOOPCAB-001 LOOPCAB-002 | Jan. 17, 2017 | Jan. 16, 2018 |
| Pre-Amplifier Mini-Circuits | ZFL-1000VH2B | AMP-ZFL-01 | Nov. 10, 2016 | Nov. 09, 2017 |
| Trilog Broadband Antenna SCHWARZBECK | VULB 9168 | 9168-406 | Dec. 13, 2016 | Dec. 12, 2017 |
| RF Cable | 8D | 966-4-1 966-4-2 966-4-3 | Apr. 01, 2017 | Mar. 31, 2018 |
| Fixed attenuator Mini-Circuits | UNAT-5+ | PAD-3m-4-01 | Oct. 05, 2016 | Oct. 04, 2017 |
| Horn_Antenna SCHWARZBECK | BBHA 9120D | 9120D-783 | Dec. 27, 2016 | Dec. 26, 2017 |
| Pre-Amplifier EMCI | EMC12630SE | 980385 | Feb. 02, 2017 | Feb. 01, 2018 |
| RF Cable | EMC104-SM-SM-1200 EMC104-SM-SM-2000 EMC104-SM-SM-5000 | 160923 150318 150321 | Feb. 02, 2017 Mar. 29, 2017 Mar. 29, 2017 | Feb. 01, 2018 Mar. 28, 2018 Mar. 28, 2018 |
| Pre-Amplifier EMCI | EMC184045SE | 980387 | Feb. 02, 2017 | Feb. 01, 2018 |
| Horn_Antenna SCHWARZBECK | BBHA 9170 | BBHA9170608 | Dec. 15, 2016 | Dec. 14, 2017 |
| RF Cable | SUCOFLEX 102 | 36432/2 36433/2 | Jan. 15, 2017 | Jan. 14, 2018 |
| Software | ADT_Radiated_V8.7.08 | NA | NA | NA |
| Antenna Tower & Turn Table Max-Full | MF-7802 | MF780208410 | NA | NA |
| Boresight Antenna Fixture | FBA-01 | FBA-SIP02 | NA | NA |
| Spectrum Analyzer R&S | FSV40 | 100964 | July 1, 2017 | June 30, 2018 |
| Power meter Anritsu | ML2495A | 1014008 | May 11, 2017 | May 10, 2018 |
| Power sensor Anritsu | MA2411B | 0917122 | May 11, 2017 | May 10, 2018 |
| AC Power Source Extech Electronics | 6205 | 1440452 | NA | NA |
| Temperature & Humidity Chamber Giant Force | GTH-150-40-SP-AR | MAA0812-008 | Jan. 11, 2017 | Jan. 10, 2018 |
| Digital Multimeter FLUKE | 87III | 73680266 | Nov. 10, 2016 | Nov. 09, 2017 |

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. *The calibration interval of the above test instruments is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. The test was performed in 966 Chamber No. 4.
4. The CANADA Site Registration No. is 20331-2
5. Loop antenna was used for all emissions below 30 MHz.
6. Tested Date: Aug. 17 to Sep. 06, 2017.

4.1.3 Test Procedure

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Both X and Y axes of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

NOTE:

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

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

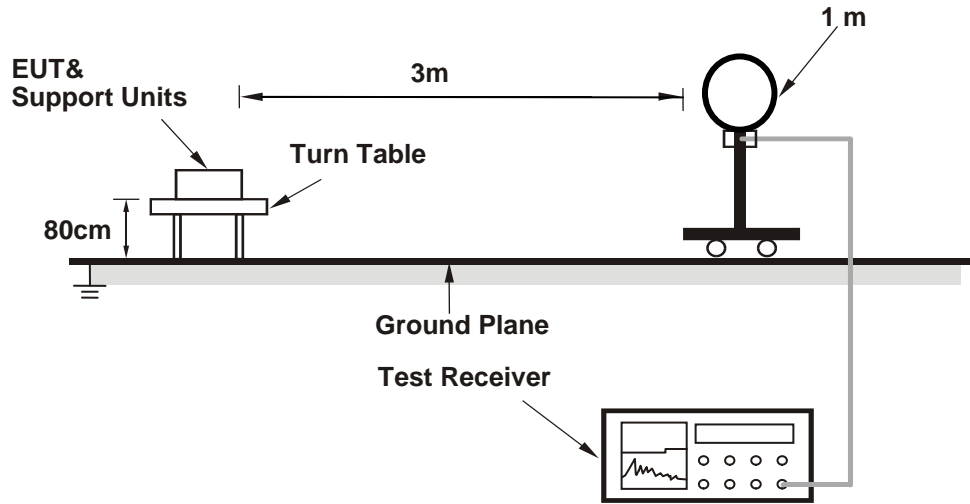
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

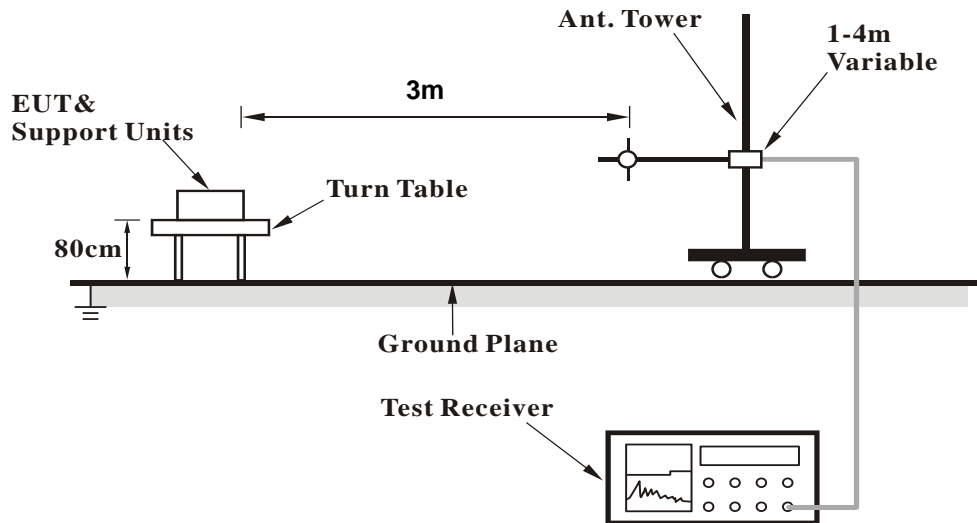
No deviation.

4.1.5 Test Setup

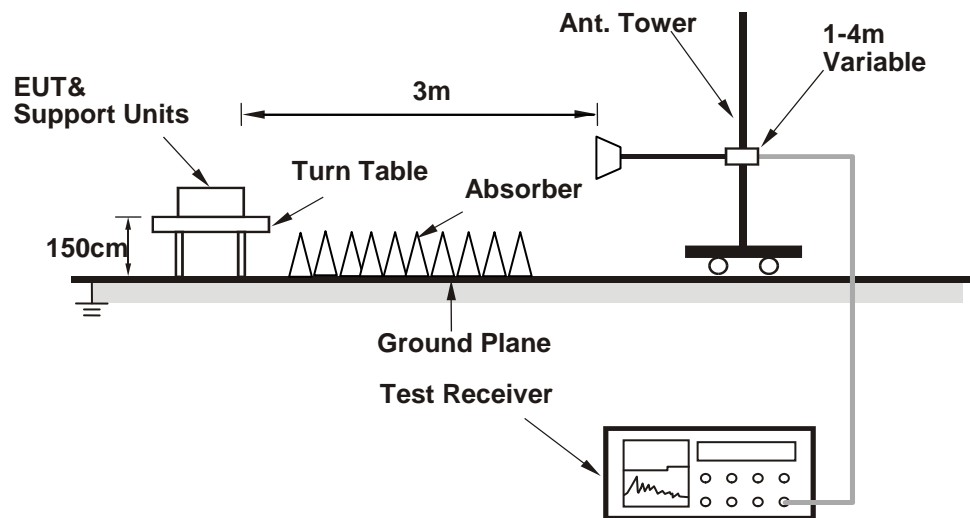
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



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

4.1.6 EUT Operating Condition

- a. Connected the EUT with the Laptop which is placed on remote site.
- b. Controlling software (HyperTerminal paste wl.txt command) has been activated to set the EUT on specific status.

4.1.7 Test Results (Mode 1)

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 | 5103.00 | 46.3 PK | 74.0 | -27.7 | 1.51 H | 237 | 42.4 | 3.9 |
| 2 | 5103.00 | 36.5 AV | 54.0 | -17.5 | 1.51 H | 237 | 32.6 | 3.9 |
| 3 | *5260.00 | 107.9 PK | | | 1.51 H | 237 | 103.7 | 4.2 |
| 4 | *5260.00 | 98.4 AV | | | 1.51 H | 237 | 94.2 | 4.2 |
| 5 | 5414.50 | 48.1 PK | 74.0 | -25.9 | 1.51 H | 237 | 43.7 | 4.4 |
| 6 | 5414.50 | 38.2 AV | 54.0 | -15.8 | 1.51 H | 237 | 33.8 | 4.4 |
| 7 | #10520.00 | 54.9 PK | 74.0 | -19.1 | 1.34 H | 20 | 41.1 | 13.8 |
| 8 | #10520.00 | 43.0 AV | 54.0 | -11.0 | 1.34 H | 20 | 29.2 | 13.8 |
| 9 | 15780.00 | 53.9 PK | 74.0 | -20.1 | 1.95 H | 7 | 39.8 | 14.1 |
| 10 | 15780.00 | 37.7 AV | 54.0 | -16.3 | 1.95 H | 7 | 23.6 | 14.1 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 5103.00 | 46.4 PK | 74.0 | -27.6 | 1.50 V | 243 | 42.5 | 3.9 |
| 2 | 5103.00 | 36.4 AV | 54.0 | -17.6 | 1.50 V | 243 | 32.5 | 3.9 |
| 3 | *5260.00 | 108.0 PK | | | 1.50 V | 243 | 103.8 | 4.2 |
| 4 | *5260.00 | 98.6 AV | | | 1.50 V | 243 | 94.4 | 4.2 |
| 5 | 5414.50 | 47.8 PK | 74.0 | -26.2 | 1.50 V | 238 | 43.4 | 4.4 |
| 6 | 5414.50 | 38.3 AV | 54.0 | -15.7 | 1.50 V | 238 | 33.9 | 4.4 |
| 7 | #10520.00 | 49.0 PK | 74.0 | -25.0 | 1.74 V | 48 | 35.2 | 13.8 |
| 8 | #10520.00 | 37.4 AV | 54.0 | -16.6 | 1.74 V | 48 | 23.6 | 13.8 |
| 9 | 15780.00 | 46.9 PK | 74.0 | -27.1 | 1.57 V | 36 | 32.8 | 14.1 |
| 10 | 15780.00 | 34.7 AV | 54.0 | -19.3 | 1.57 V | 36 | 20.6 | 14.1 |

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 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 | 108.9 PK | | | 1.45 H | 252 | 104.6 | 4.3 |
| 2 | *5300.00 | 98.6 AV | | | 1.45 H | 252 | 94.3 | 4.3 |
| 3 | 5454.30 | 53.0 PK | 74.0 | -21.0 | 1.45 H | 252 | 48.5 | 4.5 |
| 4 | 5454.30 | 38.4 AV | 54.0 | -15.6 | 1.45 H | 252 | 33.9 | 4.5 |
| 5 | 10600.00 | 55.1 PK | 74.0 | -18.9 | 1.32 H | 27 | 41.3 | 13.8 |
| 6 | 10600.00 | 43.5 AV | 54.0 | -10.5 | 1.32 H | 27 | 29.7 | 13.8 |
| 7 | 15900.00 | 54.5 PK | 74.0 | -19.5 | 1.95 H | 9 | 41.3 | 13.2 |
| 8 | 15900.00 | 38.1 AV | 54.0 | -15.9 | 1.95 H | 9 | 24.9 | 13.2 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | *5300.00 | 109.6 PK | | | 1.50 V | 244 | 105.3 | 4.3 |
| 2 | *5300.00 | 99.9 AV | | | 1.50 V | 244 | 95.6 | 4.3 |
| 3 | 5454.30 | 53.1 PK | 74.0 | -20.9 | 1.50 V | 237 | 48.6 | 4.5 |
| 4 | 5454.30 | 38.8 AV | 54.0 | -15.2 | 1.50 V | 237 | 34.3 | 4.5 |
| 5 | 10600.00 | 49.0 PK | 74.0 | -25.0 | 1.79 V | 57 | 35.2 | 13.8 |
| 6 | 10600.00 | 37.3 AV | 54.0 | -16.7 | 1.79 V | 57 | 23.5 | 13.8 |
| 7 | 15900.00 | 46.9 PK | 74.0 | -27.1 | 1.62 V | 27 | 33.7 | 13.2 |
| 8 | 15900.00 | 34.6 AV | 54.0 | -19.4 | 1.62 V | 27 | 21.4 | 13.2 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 | 110.1 PK | | | 1.77 H | 290 | 105.8 | 4.3 |
| 2 | *5320.00 | 100.1 AV | | | 1.77 H | 290 | 95.8 | 4.3 |
| 3 | 5350.00 | 63.7 PK | 74.0 | -10.3 | 1.77 H | 290 | 59.3 | 4.4 |
| 4 | 5350.00 | 47.1 AV | 54.0 | -6.9 | 1.77 H | 290 | 42.7 | 4.4 |
| 5 | 10640.00 | 54.5 PK | 74.0 | -19.5 | 1.38 H | 21 | 40.5 | 14.0 |
| 6 | 10640.00 | 43.2 AV | 54.0 | -10.8 | 1.38 H | 21 | 29.2 | 14.0 |
| 7 | 15960.00 | 54.7 PK | 74.0 | -19.3 | 1.96 H | 14 | 41.2 | 13.5 |
| 8 | 15960.00 | 38.4 AV | 54.0 | -15.6 | 1.96 H | 14 | 24.9 | 13.5 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | *5320.00 | 107.5 PK | | | 1.50 V | 242 | 103.2 | 4.3 |
| 2 | *5320.00 | 98.8 AV | | | 1.50 V | 242 | 94.5 | 4.3 |
| 3 | 5350.00 | 63.6 PK | 74.0 | -10.4 | 1.50 V | 242 | 59.2 | 4.4 |
| 4 | 5350.00 | 45.5 AV | 54.0 | -8.5 | 1.50 V | 242 | 41.1 | 4.4 |
| 5 | 10640.00 | 48.7 PK | 74.0 | -25.3 | 1.81 V | 70 | 34.7 | 14.0 |
| 6 | 10640.00 | 37.0 AV | 54.0 | -17.0 | 1.81 V | 70 | 23.0 | 14.0 |
| 7 | 15960.00 | 47.0 PK | 74.0 | -27.0 | 1.64 V | 42 | 33.5 | 13.5 |
| 8 | 15960.00 | 34.7 AV | 54.0 | -19.3 | 1.64 V | 42 | 21.2 | 13.5 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 | #5470.00 | 63.2 PK | 74.0 | -10.8 | 1.50 H | 319 | 58.7 | 4.5 |
| 2 | #5470.00 | 46.9 AV | 54.0 | -7.1 | 1.50 H | 319 | 42.4 | 4.5 |
| 3 | *5500.00 | 109.6 PK | | | 1.50 H | 319 | 105.1 | 4.5 |
| 4 | *5500.00 | 99.2 AV | | | 1.50 H | 319 | 94.7 | 4.5 |
| 5 | #5742.20 | 53.2 PK | 74.0 | -20.8 | 1.50 H | 310 | 48.2 | 5.0 |
| 6 | #5742.20 | 44.1 AV | 54.0 | -9.9 | 1.50 H | 310 | 39.1 | 5.0 |
| 7 | 11000.00 | 57.3 PK | 74.0 | -16.7 | 1.49 H | 241 | 42.5 | 14.8 |
| 8 | 11000.00 | 44.6 AV | 54.0 | -9.4 | 1.49 H | 241 | 29.8 | 14.8 |
| 9 | #16500.00 | 60.1 PK | 74.0 | -13.9 | 1.49 H | 295 | 44.5 | 15.6 |
| 10 | #16500.00 | 47.6 AV | 54.0 | -6.4 | 1.49 H | 295 | 32.0 | 15.6 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | #5470.00 | 57.4 PK | 74.0 | -16.6 | 1.50 V | 242 | 52.9 | 4.5 |
| 2 | #5470.00 | 43.5 AV | 54.0 | -10.5 | 1.50 V | 242 | 39.0 | 4.5 |
| 3 | *5500.00 | 107.2 PK | | | 1.50 V | 242 | 102.7 | 4.5 |
| 4 | *5500.00 | 97.1 AV | | | 1.50 V | 242 | 92.6 | 4.5 |
| 5 | #5742.20 | 50.7 PK | 74.0 | -23.3 | 1.50 V | 242 | 45.7 | 5.0 |
| 6 | #5742.20 | 41.5 AV | 54.0 | -12.5 | 1.50 V | 242 | 36.5 | 5.0 |
| 7 | 11000.00 | 59.7 PK | 74.0 | -14.3 | 1.18 V | 245 | 44.9 | 14.8 |
| 8 | 11000.00 | 46.5 AV | 54.0 | -7.5 | 1.18 V | 245 | 31.7 | 14.8 |
| 9 | #16500.00 | 53.6 PK | 74.0 | -20.4 | 2.39 V | 302 | 38.0 | 15.6 |
| 10 | #16500.00 | 42.8 AV | 54.0 | -11.2 | 2.39 V | 302 | 27.2 | 15.6 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 | 5417.40 | 58.9 PK | 74.0 | -15.1 | 2.13 H | 315 | 54.4 | 4.5 |
| 2 | 5417.40 | 49.4 AV | 54.0 | -4.6 | 2.13 H | 315 | 44.9 | 4.5 |
| 3 | *5580.00 | 109.5 PK | | | 1.50 H | 360 | 104.9 | 4.6 |
| 4 | *5580.00 | 99.1 AV | | | 1.50 H | 360 | 94.5 | 4.6 |
| 5 | #5744.00 | 58.7 PK | 74.0 | -15.3 | 3.78 H | 313 | 53.7 | 5.0 |
| 6 | #5744.00 | 49.8 AV | 54.0 | -4.2 | 3.78 H | 313 | 44.8 | 5.0 |
| 7 | 11160.00 | 57.6 PK | 74.0 | -16.4 | 1.44 H | 233 | 43.2 | 14.4 |
| 8 | 11160.00 | 44.9 AV | 54.0 | -9.1 | 1.44 H | 233 | 30.5 | 14.4 |
| 9 | #16740.00 | 59.6 PK | 74.0 | -14.4 | 1.52 H | 296 | 43.1 | 16.5 |
| 10 | #16740.00 | 47.1 AV | 54.0 | -6.9 | 1.52 H | 296 | 30.6 | 16.5 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 5417.40 | 56.8 PK | 74.0 | -17.2 | 1.29 V | 223 | 52.3 | 4.5 |
| 2 | 5417.40 | 47.0 AV | 54.0 | -7.0 | 1.29 V | 223 | 42.5 | 4.5 |
| 3 | *5580.00 | 108.3 PK | | | 1.50 V | 238 | 103.7 | 4.6 |
| 4 | *5580.00 | 97.6 AV | | | 1.50 V | 238 | 93.0 | 4.6 |
| 5 | #5744.00 | 57.8 PK | 74.0 | -16.2 | 2.83 V | 240 | 52.8 | 5.0 |
| 6 | #5744.00 | 48.5 AV | 54.0 | -5.5 | 2.83 V | 240 | 43.5 | 5.0 |
| 7 | 11160.00 | 59.6 PK | 74.0 | -14.4 | 1.21 V | 233 | 45.2 | 14.4 |
| 8 | 11160.00 | 46.2 AV | 54.0 | -7.8 | 1.21 V | 233 | 31.8 | 14.4 |
| 9 | #16740.00 | 53.9 PK | 74.0 | -20.1 | 2.34 V | 291 | 37.4 | 16.5 |
| 10 | #16740.00 | 42.9 AV | 54.0 | -11.1 | 2.34 V | 291 | 26.4 | 16.5 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 | 109.1 PK | | | 1.50 H | 11 | 104.3 | 4.8 |
| 2 | *5700.00 | 99.0 AV | | | 1.50 H | 11 | 94.2 | 4.8 |
| 3 | #5725.00 | 65.9 PK | 74.0 | -8.1 | 1.50 H | 11 | 61.0 | 4.9 |
| 4 | #5725.00 | 48.4 AV | 54.0 | -5.6 | 1.50 H | 11 | 43.5 | 4.9 |
| 5 | #5861.50 | 57.3 PK | 74.0 | -16.7 | 1.50 H | 320 | 52.1 | 5.2 |
| 6 | #5861.50 | 48.9 AV | 54.0 | -5.1 | 1.50 H | 320 | 43.7 | 5.2 |
| 7 | 11400.00 | 57.4 PK | 74.0 | -16.6 | 1.45 H | 240 | 43.0 | 14.4 |
| 8 | 11400.00 | 44.9 AV | 54.0 | -9.1 | 1.45 H | 240 | 30.5 | 14.4 |
| 9 | #17100.00 | 60.1 PK | 74.0 | -13.9 | 1.49 H | 287 | 41.6 | 18.5 |
| 10 | #17100.00 | 47.8 AV | 54.0 | -6.2 | 1.49 H | 287 | 29.3 | 18.5 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | *5700.00 | 108.1 PK | | | 1.45 V | 253 | 103.3 | 4.8 |
| 2 | *5700.00 | 97.5 AV | | | 1.45 V | 253 | 92.7 | 4.8 |
| 3 | #5725.00 | 64.6 PK | 74.0 | -9.4 | 1.45 V | 253 | 59.7 | 4.9 |
| 4 | #5725.00 | 47.1 AV | 54.0 | -6.9 | 1.45 V | 253 | 42.2 | 4.9 |
| 5 | #5861.50 | 56.0 PK | 74.0 | -18.0 | 1.45 V | 253 | 50.8 | 5.2 |
| 6 | #5861.50 | 47.6 AV | 54.0 | -6.4 | 1.45 V | 253 | 42.4 | 5.2 |
| 7 | 11400.00 | 59.7 PK | 74.0 | -14.3 | 1.15 V | 237 | 45.3 | 14.4 |
| 8 | 11400.00 | 46.4 AV | 54.0 | -7.6 | 1.15 V | 237 | 32.0 | 14.4 |
| 9 | #17100.00 | 54.3 PK | 74.0 | -19.7 | 2.30 V | 304 | 35.8 | 18.5 |
| 10 | #17100.00 | 43.3 AV | 54.0 | -10.7 | 2.30 V | 304 | 24.8 | 18.5 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 144 | 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 | 5442.10 | 50.2 PK | 74.0 | -23.8 | 1.38 H | 2 | 45.7 | 4.5 |
| 2 | 5442.10 | 37.6 AV | 54.0 | -16.4 | 1.38 H | 2 | 33.1 | 4.5 |
| 3 | *5720.00 | 109.1 PK | | | 1.38 H | 2 | 104.2 | 4.9 |
| 4 | *5720.00 | 99.2 AV | | | 1.38 H | 2 | 94.3 | 4.9 |
| 5 | #5885.80 | 60.1 PK | 74.0 | -13.9 | 1.24 H | 353 | 54.9 | 5.2 |
| 6 | #5885.80 | 50.7 AV | 54.0 | -3.3 | 1.24 H | 353 | 45.5 | 5.2 |
| 7 | 11440.00 | 57.9 PK | 74.0 | -16.1 | 1.55 H | 249 | 43.7 | 14.2 |
| 8 | 11440.00 | 44.8 AV | 54.0 | -9.2 | 1.55 H | 249 | 30.6 | 14.2 |
| 9 | #17160.00 | 59.8 PK | 74.0 | -14.2 | 1.46 H | 314 | 41.5 | 18.3 |
| 10 | #17160.00 | 47.5 AV | 54.0 | -6.5 | 1.46 H | 314 | 29.2 | 18.3 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 5442.10 | 50.1 PK | 74.0 | -23.9 | 1.40 V | 259 | 45.6 | 4.5 |
| 2 | 5442.10 | 37.5 AV | 54.0 | -16.5 | 1.40 V | 259 | 33.0 | 4.5 |
| 3 | *5720.00 | 107.8 PK | | | 1.40 V | 259 | 102.9 | 4.9 |
| 4 | *5720.00 | 98.1 AV | | | 1.40 V | 259 | 93.2 | 4.9 |
| 5 | #5885.80 | 59.6 PK | 74.0 | -14.4 | 1.40 V | 259 | 54.4 | 5.2 |
| 6 | #5885.80 | 48.9 AV | 54.0 | -5.1 | 1.40 V | 259 | 43.7 | 5.2 |
| 7 | 11440.00 | 59.1 PK | 74.0 | -14.9 | 1.02 V | 251 | 44.9 | 14.2 |
| 8 | 11440.00 | 46.0 AV | 54.0 | -8.0 | 1.02 V | 251 | 31.8 | 14.2 |
| 9 | #17160.00 | 54.0 PK | 74.0 | -20.0 | 2.30 V | 296 | 35.7 | 18.3 |
| 10 | #17160.00 | 42.9 AV | 54.0 | -11.1 | 2.30 V | 296 | 24.6 | 18.3 |

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 (VHT20)

| | | | |
|------------------------|---------------|------------------------------|--------------|
| 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 | 5106.70 | 51.2 PK | 74.0 | -22.8 | 2.34 H | 292 | 47.3 | 3.9 |
| 2 | 5106.70 | 41.0 AV | 54.0 | -13.0 | 2.34 H | 292 | 37.1 | 3.9 |
| 3 | *5260.00 | 111.0 PK | | | 1.69 H | 297 | 106.8 | 4.2 |
| 4 | *5260.00 | 100.4 AV | | | 1.69 H | 297 | 96.2 | 4.2 |
| 5 | 5416.60 | 52.2 PK | 74.0 | -21.8 | 1.69 H | 300 | 47.7 | 4.5 |
| 6 | 5416.60 | 41.5 AV | 54.0 | -12.5 | 1.69 H | 300 | 37.0 | 4.5 |
| 7 | #10520.00 | 53.6 PK | 74.0 | -20.4 | 1.51 H | 25 | 39.8 | 13.8 |
| 8 | #10520.00 | 41.8 AV | 54.0 | -12.2 | 1.51 H | 25 | 28.0 | 13.8 |
| 9 | 15780.00 | 52.6 PK | 74.0 | -21.4 | 1.89 H | 12 | 38.5 | 14.1 |
| 10 | 15780.00 | 36.1 AV | 54.0 | -17.9 | 1.89 H | 12 | 22.0 | 14.1 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 5106.70 | 50.6 PK | 74.0 | -23.4 | 1.60 V | 315 | 46.7 | 3.9 |
| 2 | 5106.70 | 40.3 AV | 54.0 | -13.7 | 1.60 V | 315 | 36.4 | 3.9 |
| 3 | *5260.00 | 109.8 PK | | | 1.60 V | 315 | 105.6 | 4.2 |
| 4 | *5260.00 | 99.3 AV | | | 1.60 V | 315 | 95.1 | 4.2 |
| 5 | 5416.60 | 51.8 PK | 74.0 | -22.2 | 1.60 V | 315 | 47.3 | 4.5 |
| 6 | 5416.60 | 40.4 AV | 54.0 | -13.6 | 1.60 V | 315 | 35.9 | 4.5 |
| 7 | #10520.00 | 48.8 PK | 74.0 | -25.2 | 1.72 V | 58 | 35.0 | 13.8 |
| 8 | #10520.00 | 36.0 AV | 54.0 | -18.0 | 1.72 V | 58 | 22.2 | 13.8 |
| 9 | 15780.00 | 46.7 PK | 74.0 | -27.3 | 1.41 V | 64 | 32.6 | 14.1 |
| 10 | 15780.00 | 34.2 AV | 54.0 | -19.8 | 1.41 V | 64 | 20.1 | 14.1 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 | 5150.00 | 47.6 PK | 74.0 | -26.4 | 1.73 H | 300 | 43.6 | 4.0 |
| 2 | 5150.00 | 38.8 AV | 54.0 | -15.2 | 1.73 H | 300 | 34.8 | 4.0 |
| 3 | *5300.00 | 111.1 PK | | | 1.73 H | 300 | 106.8 | 4.3 |
| 4 | *5300.00 | 100.5 AV | | | 1.73 H | 300 | 96.2 | 4.3 |
| 5 | 5456.40 | 55.0 PK | 74.0 | -19.0 | 1.73 H | 300 | 50.5 | 4.5 |
| 6 | 5456.40 | 40.6 AV | 54.0 | -13.4 | 1.73 H | 300 | 36.1 | 4.5 |
| 7 | 10600.00 | 53.5 PK | 74.0 | -20.5 | 1.47 H | 19 | 39.7 | 13.8 |
| 8 | 10600.00 | 41.8 AV | 54.0 | -12.2 | 1.47 H | 19 | 28.0 | 13.8 |
| 9 | 15900.00 | 52.5 PK | 74.0 | -21.5 | 1.89 H | 1 | 39.3 | 13.2 |
| 10 | 15900.00 | 36.1 AV | 54.0 | -17.9 | 1.89 H | 1 | 22.9 | 13.2 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 5150.00 | 46.5 PK | 74.0 | -27.5 | 1.66 V | 331 | 42.5 | 4.0 |
| 2 | 5150.00 | 38.6 AV | 54.0 | -15.4 | 1.66 V | 331 | 34.6 | 4.0 |
| 3 | *5300.00 | 109.8 PK | | | 1.66 V | 331 | 105.5 | 4.3 |
| 4 | *5300.00 | 99.3 AV | | | 1.66 V | 331 | 95.0 | 4.3 |
| 5 | 5456.40 | 54.0 PK | 74.0 | -20.0 | 1.66 V | 331 | 49.5 | 4.5 |
| 6 | 5456.40 | 39.5 AV | 54.0 | -14.5 | 1.66 V | 331 | 35.0 | 4.5 |
| 7 | 10600.00 | 48.6 PK | 74.0 | -25.4 | 1.71 V | 72 | 34.8 | 13.8 |
| 8 | 10600.00 | 35.7 AV | 54.0 | -18.3 | 1.71 V | 72 | 21.9 | 13.8 |
| 9 | 15900.00 | 47.1 PK | 74.0 | -26.9 | 1.36 V | 55 | 33.9 | 13.2 |
| 10 | 15900.00 | 34.5 AV | 54.0 | -19.5 | 1.36 V | 55 | 21.3 | 13.2 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 | 111.1 PK | | | 1.70 H | 306 | 106.8 | 4.3 |
| 2 | *5320.00 | 99.8 AV | | | 1.70 H | 306 | 95.5 | 4.3 |
| 3 | 5351.40 | 67.6 PK | 74.0 | -6.4 | 1.70 H | 306 | 63.2 | 4.4 |
| 4 | 5351.40 | 47.3 AV | 54.0 | -6.7 | 1.70 H | 306 | 42.9 | 4.4 |
| 5 | 10640.00 | 52.9 PK | 74.0 | -21.1 | 1.44 H | 9 | 38.9 | 14.0 |
| 6 | 10640.00 | 41.4 AV | 54.0 | -12.6 | 1.44 H | 9 | 27.4 | 14.0 |
| 7 | 15960.00 | 52.9 PK | 74.0 | -21.1 | 1.93 H | 7 | 39.4 | 13.5 |
| 8 | 15960.00 | 36.5 AV | 54.0 | -17.5 | 1.93 H | 7 | 23.0 | 13.5 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *5320.00 | 109.9 PK | | | 1.68 V | 346 | 105.6 | 4.3 |
| 2 | *5320.00 | 98.6 AV | | | 1.68 V | 346 | 94.3 | 4.3 |
| 3 | 5351.40 | 67.4 PK | 74.0 | -6.6 | 1.68 V | 346 | 63.0 | 4.4 |
| 4 | 5351.40 | 46.5 AV | 54.0 | -7.5 | 1.68 V | 346 | 42.1 | 4.4 |
| 5 | 10640.00 | 48.5 PK | 74.0 | -25.5 | 1.70 V | 65 | 34.5 | 14.0 |
| 6 | 10640.00 | 35.7 AV | 54.0 | -18.3 | 1.70 V | 65 | 21.7 | 14.0 |
| 7 | 15960.00 | 47.2 PK | 74.0 | -26.8 | 1.41 V | 40 | 33.7 | 13.5 |
| 8 | 15960.00 | 34.8 AV | 54.0 | -19.2 | 1.41 V | 40 | 21.3 | 13.5 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 | #5470.00 | 67.0 PK | 74.0 | -7.0 | 1.57 H | 306 | 62.5 | 4.5 |
| 2 | #5470.00 | 47.0 AV | 54.0 | -7.0 | 1.57 H | 306 | 42.5 | 4.5 |
| 3 | *5500.00 | 110.4 PK | | | 1.57 H | 306 | 105.9 | 4.5 |
| 4 | *5500.00 | 99.7 AV | | | 1.57 H | 306 | 95.2 | 4.5 |
| 5 | #5735.80 | 56.5 PK | 74.0 | -17.5 | 1.57 H | 306 | 51.5 | 5.0 |
| 6 | #5735.80 | 46.7 AV | 54.0 | -7.3 | 1.57 H | 306 | 41.7 | 5.0 |
| 7 | 11000.00 | 52.9 PK | 74.0 | -21.1 | 1.45 H | 3 | 38.1 | 14.8 |
| 8 | 11000.00 | 41.7 AV | 54.0 | -12.3 | 1.45 H | 3 | 26.9 | 14.8 |
| 9 | #16500.00 | 53.1 PK | 74.0 | -20.9 | 1.88 H | 8 | 37.5 | 15.6 |
| 10 | #16500.00 | 37.0 AV | 54.0 | -17.0 | 1.88 H | 8 | 21.4 | 15.6 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | #5470.00 | 64.9 PK | 74.0 | -9.1 | 1.65 V | 349 | 60.4 | 4.5 |
| 2 | #5470.00 | 45.0 AV | 54.0 | -9.0 | 1.65 V | 349 | 40.5 | 4.5 |
| 3 | *5500.00 | 108.0 PK | | | 1.65 V | 349 | 103.5 | 4.5 |
| 4 | *5500.00 | 97.6 AV | | | 1.65 V | 349 | 93.1 | 4.5 |
| 5 | #5735.80 | 54.4 PK | 74.0 | -19.6 | 1.65 V | 349 | 49.4 | 5.0 |
| 6 | #5735.80 | 44.6 AV | 54.0 | -9.4 | 1.65 V | 349 | 39.6 | 5.0 |
| 7 | 11000.00 | 49.1 PK | 74.0 | -24.9 | 1.68 V | 66 | 34.3 | 14.8 |
| 8 | 11000.00 | 36.2 AV | 54.0 | -17.8 | 1.68 V | 66 | 21.4 | 14.8 |
| 9 | #16500.00 | 47.4 PK | 74.0 | -26.6 | 1.41 V | 51 | 31.8 | 15.6 |
| 10 | #16500.00 | 35.1 AV | 54.0 | -18.9 | 1.41 V | 51 | 19.5 | 15.6 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 | 5426.30 | 58.5 PK | 74.0 | -15.5 | 1.56 H | 308 | 54.0 | 4.5 |
| 2 | 5426.30 | 48.8 AV | 54.0 | -5.2 | 1.56 H | 308 | 44.3 | 4.5 |
| 3 | *5580.00 | 111.8 PK | | | 1.56 H | 354 | 107.2 | 4.6 |
| 4 | *5580.00 | 100.3 AV | | | 1.56 H | 354 | 95.7 | 4.6 |
| 5 | #5738.30 | 58.7 PK | 74.0 | -15.3 | 1.49 H | 360 | 53.7 | 5.0 |
| 6 | #5738.30 | 48.7 AV | 54.0 | -5.3 | 1.49 H | 360 | 43.7 | 5.0 |
| 7 | 11160.00 | 52.5 PK | 74.0 | -21.5 | 1.44 H | 15 | 38.1 | 14.4 |
| 8 | 11160.00 | 41.5 AV | 54.0 | -12.5 | 1.44 H | 15 | 27.1 | 14.4 |
| 9 | #16740.00 | 52.3 PK | 74.0 | -21.7 | 1.83 H | 16 | 35.8 | 16.5 |
| 10 | #16740.00 | 36.5 AV | 54.0 | -17.5 | 1.83 H | 16 | 20.0 | 16.5 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 5426.30 | 57.3 PK | 74.0 | -16.7 | 1.61 V | 359 | 52.8 | 4.5 |
| 2 | 5426.30 | 47.6 AV | 54.0 | -6.4 | 1.61 V | 359 | 43.1 | 4.5 |
| 3 | *5580.00 | 109.4 PK | | | 1.61 V | 359 | 104.8 | 4.6 |
| 4 | *5580.00 | 98.2 AV | | | 1.61 V | 359 | 93.6 | 4.6 |
| 5 | #5738.30 | 57.5 PK | 74.0 | -16.5 | 1.61 V | 359 | 52.5 | 5.0 |
| 6 | #5738.30 | 47.4 AV | 54.0 | -6.6 | 1.61 V | 359 | 42.4 | 5.0 |
| 7 | 11160.00 | 49.2 PK | 74.0 | -24.8 | 1.67 V | 53 | 34.8 | 14.4 |
| 8 | 11160.00 | 36.2 AV | 54.0 | -17.8 | 1.67 V | 53 | 21.8 | 14.4 |
| 9 | #16740.00 | 47.3 PK | 74.0 | -26.7 | 1.42 V | 42 | 30.8 | 16.5 |
| 10 | #16740.00 | 35.1 AV | 54.0 | -18.9 | 1.42 V | 42 | 18.6 | 16.5 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 | 111.7 PK | | | 1.50 H | 352 | 106.9 | 4.8 |
| 2 | *5700.00 | 99.4 AV | | | 1.50 H | 352 | 94.6 | 4.8 |
| 3 | #5726.50 | 66.9 PK | 74.0 | -7.1 | 1.50 H | 352 | 62.0 | 4.9 |
| 4 | #5726.50 | 48.4 AV | 54.0 | -5.6 | 1.50 H | 352 | 43.5 | 4.9 |
| 5 | #5862.80 | 59.5 PK | 74.0 | -14.5 | 1.12 H | 350 | 54.3 | 5.2 |
| 6 | #5862.80 | 49.8 AV | 54.0 | -4.2 | 1.12 H | 350 | 44.6 | 5.2 |
| 7 | 11400.00 | 53.3 PK | 74.0 | -20.7 | 1.49 H | 12 | 38.9 | 14.4 |
| 8 | 11400.00 | 42.1 AV | 54.0 | -11.9 | 1.49 H | 12 | 27.7 | 14.4 |
| 9 | #17100.00 | 53.0 PK | 74.0 | -21.0 | 1.87 H | 10 | 34.5 | 18.5 |
| 10 | #17100.00 | 37.1 AV | 54.0 | -16.9 | 1.87 H | 10 | 18.6 | 18.5 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | *5700.00 | 109.3 PK | | | 1.65 V | 360 | 104.5 | 4.8 |
| 2 | *5700.00 | 97.3 AV | | | 1.65 V | 360 | 92.5 | 4.8 |
| 3 | #5726.50 | 65.3 PK | 74.0 | -8.7 | 1.65 V | 360 | 60.4 | 4.9 |
| 4 | #5726.50 | 47.0 AV | 54.0 | -7.0 | 1.65 V | 360 | 42.1 | 4.9 |
| 5 | #5862.80 | 58.2 PK | 74.0 | -15.8 | 1.65 V | 360 | 53.0 | 5.2 |
| 6 | #5862.80 | 48.4 AV | 54.0 | -5.6 | 1.65 V | 360 | 43.2 | 5.2 |
| 7 | 11400.00 | 48.8 PK | 74.0 | -25.2 | 1.74 V | 58 | 34.4 | 14.4 |
| 8 | 11400.00 | 36.2 AV | 54.0 | -17.8 | 1.74 V | 58 | 21.8 | 14.4 |
| 9 | #17100.00 | 47.5 PK | 74.0 | -26.5 | 1.43 V | 47 | 29.0 | 18.5 |
| 10 | #17100.00 | 35.2 AV | 54.0 | -18.8 | 1.43 V | 47 | 16.7 | 18.5 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 144 | 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 | 48.2 PK | 74.0 | -25.8 | 1.50 H | 352 | 43.7 | 4.5 |
| 2 | #5470.00 | 38.2 AV | 54.0 | -15.8 | 1.50 H | 352 | 33.7 | 4.5 |
| 3 | *5720.00 | 110.4 PK | | | 1.50 H | 352 | 105.5 | 4.9 |
| 4 | *5720.00 | 99.2 AV | | | 1.50 H | 352 | 94.3 | 4.9 |
| 5 | #5850.00 | 60.8 PK | 74.0 | -13.2 | 1.12 H | 357 | 55.7 | 5.1 |
| 6 | #5850.00 | 50.0 AV | 54.0 | -4.0 | 1.12 H | 357 | 44.9 | 5.1 |
| 7 | 11440.00 | 53.4 PK | 74.0 | -20.6 | 1.39 H | 11 | 39.2 | 14.2 |
| 8 | 11440.00 | 42.1 AV | 54.0 | -11.9 | 1.39 H | 11 | 27.9 | 14.2 |
| 9 | #17160.00 | 52.9 PK | 74.0 | -21.1 | 1.90 H | 5 | 34.6 | 18.3 |
| 10 | #17160.00 | 36.7 AV | 54.0 | -17.3 | 1.90 H | 5 | 18.4 | 18.3 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | #5470.00 | 47.0 PK | 74.0 | -27.0 | 1.64 V | 360 | 42.5 | 4.5 |
| 2 | #5470.00 | 37.0 AV | 54.0 | -17.0 | 1.64 V | 360 | 32.5 | 4.5 |
| 3 | *5720.00 | 108.3 PK | | | 1.64 V | 360 | 103.4 | 4.9 |
| 4 | *5720.00 | 97.1 AV | | | 1.64 V | 360 | 92.2 | 4.9 |
| 5 | #5850.00 | 59.6 PK | 74.0 | -14.4 | 1.64 V | 360 | 54.5 | 5.1 |
| 6 | #5850.00 | 48.8 AV | 54.0 | -5.2 | 1.64 V | 360 | 43.7 | 5.1 |
| 7 | 11440.00 | 49.4 PK | 74.0 | -24.6 | 1.69 V | 68 | 35.2 | 14.2 |
| 8 | 11440.00 | 36.7 AV | 54.0 | -17.3 | 1.69 V | 68 | 22.5 | 14.2 |
| 9 | #17160.00 | 47.1 PK | 74.0 | -26.9 | 1.46 V | 64 | 28.8 | 18.3 |
| 10 | #17160.00 | 35.0 AV | 54.0 | -19.0 | 1.46 V | 64 | 16.7 | 18.3 |

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 (VHT40)

| | | | |
|------------------------|---------------|------------------------------|--------------|
| 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 | 5116.70 | 58.0 PK | 74.0 | -16.0 | 1.50 H | 308 | 54.1 | 3.9 |
| 2 | 5116.70 | 48.5 AV | 54.0 | -5.5 | 1.50 H | 308 | 44.6 | 3.9 |
| 3 | *5270.00 | 109.3 PK | | | 1.50 H | 309 | 105.1 | 4.2 |
| 4 | *5270.00 | 100.5 AV | | | 1.50 H | 309 | 96.3 | 4.2 |
| 5 | 5436.70 | 58.8 PK | 74.0 | -15.2 | 1.50 H | 308 | 54.3 | 4.5 |
| 6 | 5436.70 | 49.6 AV | 54.0 | -4.4 | 1.50 H | 308 | 45.1 | 4.5 |
| 7 | #10540.00 | 54.6 PK | 74.0 | -19.4 | 1.44 H | 41 | 40.9 | 13.7 |
| 8 | #10540.00 | 42.4 AV | 54.0 | -11.6 | 1.44 H | 41 | 28.7 | 13.7 |
| 9 | 15810.00 | 53.6 PK | 74.0 | -20.4 | 2.08 H | 29 | 39.6 | 14.0 |
| 10 | 15810.00 | 37.2 AV | 54.0 | -16.8 | 2.08 H | 29 | 23.2 | 14.0 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 5116.70 | 54.6 PK | 74.0 | -19.4 | 1.42 V | 297 | 50.7 | 3.9 |
| 2 | 5116.70 | 45.1 AV | 54.0 | -8.9 | 1.42 V | 297 | 41.2 | 3.9 |
| 3 | *5270.00 | 106.0 PK | | | 1.42 V | 297 | 101.8 | 4.2 |
| 4 | *5270.00 | 97.2 AV | | | 1.42 V | 297 | 93.0 | 4.2 |
| 5 | 5436.70 | 55.4 PK | 74.0 | -18.6 | 1.42 V | 297 | 50.9 | 4.5 |
| 6 | 5436.70 | 46.2 AV | 54.0 | -7.8 | 1.42 V | 297 | 41.7 | 4.5 |
| 7 | #10540.00 | 50.2 PK | 74.0 | -23.8 | 1.80 V | 76 | 36.5 | 13.7 |
| 8 | #10540.00 | 38.4 AV | 54.0 | -15.6 | 1.80 V | 76 | 24.7 | 13.7 |
| 9 | 15810.00 | 47.1 PK | 74.0 | -26.9 | 1.37 V | 45 | 33.1 | 14.0 |
| 10 | 15810.00 | 34.9 AV | 54.0 | -19.1 | 1.37 V | 45 | 20.9 | 14.0 |

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 | 5146.70 | 56.9 PK | 74.0 | -17.1 | 1.50 H | 309 | 52.9 | 4.0 |
| 2 | 5146.70 | 47.7 AV | 54.0 | -6.3 | 1.50 H | 309 | 43.7 | 4.0 |
| 3 | *5310.00 | 111.6 PK | | | 1.50 H | 309 | 107.3 | 4.3 |
| 4 | *5310.00 | 100.9 AV | | | 1.50 H | 309 | 96.6 | 4.3 |
| 5 | 5351.00 | 71.3 PK | 74.0 | -2.7 | 1.50 H | 309 | 66.9 | 4.4 |
| 6 | 5351.00 | 52.8 AV | 54.0 | -1.2 | 1.50 H | 309 | 48.4 | 4.4 |
| 7 | 10620.00 | 54.6 PK | 74.0 | -19.4 | 1.39 H | 49 | 40.7 | 13.9 |
| 8 | 10620.00 | 42.6 AV | 54.0 | -11.4 | 1.39 H | 49 | 28.7 | 13.9 |
| 9 | 15930.00 | 52.9 PK | 74.0 | -21.1 | 2.05 H | 38 | 39.6 | 13.3 |
| 10 | 15930.00 | 36.8 AV | 54.0 | -17.2 | 2.05 H | 38 | 23.5 | 13.3 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 5146.70 | 53.6 PK | 74.0 | -20.4 | 1.45 V | 299 | 49.6 | 4.0 |
| 2 | 5146.70 | 44.4 AV | 54.0 | -9.6 | 1.45 V | 299 | 40.4 | 4.0 |
| 3 | *5310.00 | 108.3 PK | | | 1.45 V | 299 | 104.0 | 4.3 |
| 4 | *5310.00 | 97.6 AV | | | 1.45 V | 299 | 93.3 | 4.3 |
| 5 | 5351.00 | 68.0 PK | 74.0 | -6.0 | 1.45 V | 299 | 63.6 | 4.4 |
| 6 | 5351.00 | 49.5 AV | 54.0 | -4.5 | 1.45 V | 299 | 45.1 | 4.4 |
| 7 | 10620.00 | 50.5 PK | 74.0 | -23.5 | 1.78 V | 85 | 36.6 | 13.9 |
| 8 | 10620.00 | 38.6 AV | 54.0 | -15.4 | 1.78 V | 85 | 24.7 | 13.9 |
| 9 | 15930.00 | 46.7 PK | 74.0 | -27.3 | 1.39 V | 54 | 33.4 | 13.3 |
| 10 | 15930.00 | 34.4 AV | 54.0 | -19.6 | 1.39 V | 54 | 21.1 | 13.3 |

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 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 | #5470.00 | 67.4 PK | 74.0 | -6.6 | 1.50 H | 321 | 62.9 | 4.5 |
| 2 | #5470.00 | 52.6 AV | 54.0 | -1.4 | 1.50 H | 321 | 48.1 | 4.5 |
| 3 | *5510.00 | 110.2 PK | | | 1.50 H | 321 | 105.6 | 4.6 |
| 4 | *5510.00 | 100.5 AV | | | 1.50 H | 321 | 95.9 | 4.6 |
| 5 | 11020.00 | 55.0 PK | 74.0 | -19.0 | 1.35 H | 53 | 40.3 | 14.7 |
| 6 | 11020.00 | 42.8 AV | 54.0 | -11.2 | 1.35 H | 53 | 28.1 | 14.7 |
| 7 | #16530.00 | 52.5 PK | 74.0 | -21.5 | 2.01 H | 51 | 36.7 | 15.8 |
| 8 | #16530.00 | 36.5 AV | 54.0 | -17.5 | 2.01 H | 51 | 20.7 | 15.8 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | #5470.00 | 64.1 PK | 74.0 | -9.9 | 1.45 V | 300 | 59.6 | 4.5 |
| 2 | #5470.00 | 49.3 AV | 54.0 | -4.7 | 1.45 V | 300 | 44.8 | 4.5 |
| 3 | *5510.00 | 106.9 PK | | | 1.45 V | 300 | 102.3 | 4.6 |
| 4 | *5510.00 | 97.2 AV | | | 1.45 V | 300 | 92.6 | 4.6 |
| 5 | 11020.00 | 50.8 PK | 74.0 | -23.2 | 1.80 V | 86 | 36.1 | 14.7 |
| 6 | 11020.00 | 39.0 AV | 54.0 | -15.0 | 1.80 V | 86 | 24.3 | 14.7 |
| 7 | #16530.00 | 46.7 PK | 74.0 | -27.3 | 1.43 V | 40 | 30.9 | 15.8 |
| 8 | #16530.00 | 34.4 AV | 54.0 | -19.6 | 1.43 V | 40 | 18.6 | 15.8 |

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 5396.70 | 58.6 PK | 74.0 | -15.4 | 1.56 H | 307 | 54.2 | 4.4 |
| 2 | 5396.70 | 49.9 AV | 54.0 | -4.1 | 1.56 H | 307 | 45.5 | 4.4 |
| 3 | *5550.00 | 110.1 PK | | | 1.50 H | 360 | 105.6 | 4.5 |
| 4 | *5550.00 | 99.8 AV | | | 1.50 H | 360 | 95.3 | 4.5 |
| 5 | #5726.20 | 56.0 PK | 74.0 | -18.0 | 1.56 H | 307 | 51.1 | 4.9 |
| 6 | #5726.20 | 48.2 AV | 54.0 | -5.8 | 1.56 H | 307 | 43.3 | 4.9 |
| 7 | 11100.00 | 54.4 PK | 74.0 | -19.6 | 1.35 H | 49 | 40.0 | 14.4 |
| 8 | 11100.00 | 42.5 AV | 54.0 | -11.5 | 1.35 H | 49 | 28.1 | 14.4 |
| 9 | #16650.00 | 51.8 PK | 74.0 | -22.2 | 2.07 H | 48 | 35.4 | 16.4 |
| 10 | #16650.00 | 36.1 AV | 54.0 | -17.9 | 2.07 H | 48 | 19.7 | 16.4 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 5396.70 | 55.3 PK | 74.0 | -18.7 | 1.48 V | 294 | 50.9 | 4.4 |
| 2 | 5396.70 | 46.6 AV | 54.0 | -7.4 | 1.48 V | 294 | 42.2 | 4.4 |
| 3 | *5550.00 | 106.8 PK | | | 1.48 V | 294 | 102.3 | 4.5 |
| 4 | *5550.00 | 96.5 AV | | | 1.48 V | 294 | 92.0 | 4.5 |
| 5 | #5726.20 | 52.7 PK | 74.0 | -21.3 | 1.48 V | 294 | 47.8 | 4.9 |
| 6 | #5726.20 | 44.9 AV | 54.0 | -9.1 | 1.48 V | 294 | 40.0 | 4.9 |
| 7 | 11100.00 | 51.1 PK | 74.0 | -22.9 | 1.86 V | 81 | 36.7 | 14.4 |
| 8 | 11100.00 | 39.4 AV | 54.0 | -14.6 | 1.86 V | 81 | 25.0 | 14.4 |
| 9 | #16650.00 | 46.5 PK | 74.0 | -27.5 | 1.44 V | 48 | 30.1 | 16.4 |
| 10 | #16650.00 | 34.2 AV | 54.0 | -19.8 | 1.44 V | 48 | 17.8 | 16.4 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 | 110.9 PK | | | 1.50 H | 353 | 106.1 | 4.8 |
| 2 | *5670.00 | 100.8 AV | | | 1.50 H | 353 | 96.0 | 4.8 |
| 3 | #5725.00 | 65.7 PK | 74.0 | -8.3 | 1.50 H | 353 | 60.8 | 4.9 |
| 4 | #5725.00 | 51.2 AV | 54.0 | -2.8 | 1.50 H | 353 | 46.3 | 4.9 |
| 5 | 11340.00 | 54.5 PK | 74.0 | -19.5 | 1.30 H | 35 | 40.1 | 14.4 |
| 6 | 11340.00 | 42.5 AV | 54.0 | -11.5 | 1.30 H | 35 | 28.1 | 14.4 |
| 7 | #17010.00 | 52.1 PK | 74.0 | -21.9 | 2.04 H | 56 | 33.9 | 18.2 |
| 8 | #17010.00 | 36.2 AV | 54.0 | -17.8 | 2.04 H | 56 | 18.0 | 18.2 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | *5670.00 | 107.6 PK | | | 1.48 V | 300 | 102.8 | 4.8 |
| 2 | *5670.00 | 97.5 AV | | | 1.48 V | 300 | 92.7 | 4.8 |
| 3 | #5725.00 | 62.4 PK | 74.0 | -11.6 | 1.48 V | 300 | 57.5 | 4.9 |
| 4 | #5725.00 | 47.9 AV | 54.0 | -6.1 | 1.48 V | 300 | 43.0 | 4.9 |
| 5 | 11340.00 | 50.8 PK | 74.0 | -23.2 | 1.86 V | 93 | 36.4 | 14.4 |
| 6 | 11340.00 | 39.1 AV | 54.0 | -14.9 | 1.86 V | 93 | 24.7 | 14.4 |
| 7 | #17010.00 | 47.0 PK | 74.0 | -27.0 | 1.49 V | 54 | 28.8 | 18.2 |
| 8 | #17010.00 | 34.5 AV | 54.0 | -19.5 | 1.49 V | 54 | 16.3 | 18.2 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 142 | 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 | 5459.10 | 53.4 PK | 74.0 | -20.6 | 1.16 H | 358 | 48.9 | 4.5 |
| 2 | 5459.10 | 43.6 AV | 54.0 | -10.4 | 1.16 H | 358 | 39.1 | 4.5 |
| 3 | *5710.00 | 110.8 PK | | | 1.16 H | 358 | 105.9 | 4.9 |
| 4 | *5710.00 | 101.7 AV | | | 1.16 H | 358 | 96.8 | 4.9 |
| 5 | #5850.00 | 60.6 PK | 74.0 | -13.4 | 1.16 H | 358 | 55.5 | 5.1 |
| 6 | #5850.00 | 50.9 AV | 54.0 | -3.1 | 1.16 H | 358 | 45.8 | 5.1 |
| 7 | 11420.00 | 54.0 PK | 74.0 | -20.0 | 1.29 H | 19 | 39.7 | 14.3 |
| 8 | 11420.00 | 42.1 AV | 54.0 | -11.9 | 1.29 H | 19 | 27.8 | 14.3 |
| 9 | #17130.00 | 51.8 PK | 74.0 | -22.2 | 2.05 H | 62 | 33.3 | 18.5 |
| 10 | #17130.00 | 36.2 AV | 54.0 | -17.8 | 2.05 H | 62 | 17.7 | 18.5 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 5459.10 | 50.1 PK | 74.0 | -23.9 | 1.49 V | 289 | 45.6 | 4.5 |
| 2 | 5459.10 | 40.3 AV | 54.0 | -13.7 | 1.49 V | 289 | 35.8 | 4.5 |
| 3 | *5710.00 | 107.5 PK | | | 1.49 V | 289 | 102.6 | 4.9 |
| 4 | *5710.00 | 98.4 AV | | | 1.49 V | 289 | 93.5 | 4.9 |
| 5 | #5850.00 | 57.3 PK | 74.0 | -16.7 | 1.49 V | 289 | 52.2 | 5.1 |
| 6 | #5850.00 | 47.6 AV | 54.0 | -6.4 | 1.49 V | 289 | 42.5 | 5.1 |
| 7 | 11420.00 | 50.8 PK | 74.0 | -23.2 | 1.89 V | 79 | 36.5 | 14.3 |
| 8 | 11420.00 | 39.0 AV | 54.0 | -15.0 | 1.89 V | 79 | 24.7 | 14.3 |
| 9 | #17130.00 | 47.0 PK | 74.0 | -27.0 | 1.51 V | 62 | 28.5 | 18.5 |
| 10 | #17130.00 | 34.6 AV | 54.0 | -19.4 | 1.51 V | 62 | 16.1 | 18.5 |

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.

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 | 5121.40 | 55.8 PK | 74.0 | -18.2 | 1.50 H | 309 | 51.9 | 3.9 |
| 2 | 5121.40 | 46.2 AV | 54.0 | -7.8 | 1.50 H | 309 | 42.3 | 3.9 |
| 3 | *5290.00 | 106.2 PK | | | 1.50 H | 309 | 101.9 | 4.3 |
| 4 | *5290.00 | 97.4 AV | | | 1.50 H | 309 | 93.1 | 4.3 |
| 5 | 5351.00 | 71.2 PK | 74.0 | -2.8 | 1.50 H | 309 | 66.8 | 4.4 |
| 6 | 5351.00 | 53.9 AV | 54.0 | -0.1 | 1.50 H | 309 | 49.5 | 4.4 |
| 7 | #10580.00 | 56.0 PK | 74.0 | -18.0 | 1.45 H | 24 | 42.1 | 13.9 |
| 8 | #10580.00 | 43.3 AV | 54.0 | -10.7 | 1.45 H | 24 | 29.4 | 13.9 |
| 9 | 15870.00 | 53.5 PK | 74.0 | -20.5 | 2.09 H | 38 | 40.1 | 13.4 |
| 10 | 15870.00 | 36.9 AV | 54.0 | -17.1 | 2.09 H | 38 | 23.5 | 13.4 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 5121.40 | 52.7 PK | 74.0 | -21.3 | 1.46 V | 303 | 48.8 | 3.9 |
| 2 | 5121.40 | 43.1 AV | 54.0 | -10.9 | 1.46 V | 303 | 39.2 | 3.9 |
| 3 | *5290.00 | 103.1 PK | | | 1.46 V | 303 | 98.8 | 4.3 |
| 4 | *5290.00 | 94.3 AV | | | 1.46 V | 303 | 90.0 | 4.3 |
| 5 | 5351.00 | 68.1 PK | 74.0 | -5.9 | 1.46 V | 303 | 63.7 | 4.4 |
| 6 | 5351.00 | 50.8 AV | 54.0 | -3.2 | 1.46 V | 303 | 46.4 | 4.4 |
| 7 | #10580.00 | 50.4 PK | 74.0 | -23.6 | 1.78 V | 58 | 36.5 | 13.9 |
| 8 | #10580.00 | 37.9 AV | 54.0 | -16.1 | 1.78 V | 58 | 24.0 | 13.9 |
| 9 | 15870.00 | 46.5 PK | 74.0 | -27.5 | 1.38 V | 55 | 33.1 | 13.4 |
| 10 | 15870.00 | 34.8 AV | 54.0 | -19.2 | 1.38 V | 55 | 21.4 | 13.4 |

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 | #5469.40 | 70.1 PK | 74.0 | -3.9 | 2.49 H | 354 | 65.6 | 4.5 |
| 2 | #5469.40 | 53.6 AV | 54.0 | -0.4 | 2.49 H | 354 | 49.1 | 4.5 |
| 3 | *5530.00 | 106.5 PK | | | 2.49 H | 354 | 102.0 | 4.5 |
| 4 | *5530.00 | 98.0 AV | | | 2.49 H | 354 | 93.5 | 4.5 |
| 5 | #5725.00 | 56.0 PK | 74.0 | -18.0 | 2.49 H | 354 | 51.1 | 4.9 |
| 6 | #5725.00 | 47.4 AV | 54.0 | -6.6 | 2.49 H | 354 | 42.5 | 4.9 |
| 7 | 11060.00 | 55.9 PK | 74.0 | -18.1 | 1.42 H | 17 | 41.4 | 14.5 |
| 8 | 11060.00 | 43.1 AV | 54.0 | -10.9 | 1.42 H | 17 | 28.6 | 14.5 |
| 9 | #16590.00 | 53.4 PK | 74.0 | -20.6 | 2.09 H | 32 | 36.8 | 16.6 |
| 10 | #16590.00 | 36.7 AV | 54.0 | -17.3 | 2.09 H | 32 | 20.1 | 16.6 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | #5469.40 | 67.0 PK | 74.0 | -7.0 | 1.44 V | 300 | 62.5 | 4.5 |
| 2 | #5469.40 | 50.5 AV | 54.0 | -3.5 | 1.44 V | 300 | 46.0 | 4.5 |
| 3 | *5530.00 | 103.4 PK | | | 1.44 V | 300 | 98.9 | 4.5 |
| 4 | *5530.00 | 94.9 AV | | | 1.44 V | 300 | 90.4 | 4.5 |
| 5 | #5725.00 | 52.9 PK | 74.0 | -21.1 | 1.44 V | 300 | 48.0 | 4.9 |
| 6 | #5725.00 | 44.3 AV | 54.0 | -9.7 | 1.44 V | 300 | 39.4 | 4.9 |
| 7 | 11060.00 | 50.7 PK | 74.0 | -23.3 | 1.74 V | 45 | 36.2 | 14.5 |
| 8 | 11060.00 | 38.4 AV | 54.0 | -15.6 | 1.74 V | 45 | 23.9 | 14.5 |
| 9 | #16590.00 | 46.7 PK | 74.0 | -27.3 | 1.36 V | 49 | 30.1 | 16.6 |
| 10 | #16590.00 | 35.2 AV | 54.0 | -18.8 | 1.36 V | 49 | 18.6 | 16.6 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 122 | 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 | 58.6 PK | 74.0 | -15.4 | 2.32 H | 350 | 54.1 | 4.5 |
| 2 | #5470.00 | 48.6 AV | 54.0 | -5.4 | 2.32 H | 350 | 44.1 | 4.5 |
| 3 | *5610.00 | 107.5 PK | | | 2.32 H | 350 | 102.8 | 4.7 |
| 4 | *5610.00 | 98.7 AV | | | 2.32 H | 350 | 94.0 | 4.7 |
| 5 | #5734.30 | 64.1 PK | 74.0 | -9.9 | 2.32 H | 350 | 59.1 | 5.0 |
| 6 | #5734.30 | 51.0 AV | 54.0 | -3.0 | 2.32 H | 350 | 46.0 | 5.0 |
| 7 | 11220.00 | 56.0 PK | 74.0 | -18.0 | 1.37 H | 24 | 41.6 | 14.4 |
| 8 | 11220.00 | 43.1 AV | 54.0 | -10.9 | 1.37 H | 24 | 28.7 | 14.4 |
| 9 | #16830.00 | 53.5 PK | 74.0 | -20.5 | 2.13 H | 22 | 36.5 | 17.0 |
| 10 | #16830.00 | 36.6 AV | 54.0 | -17.4 | 2.13 H | 22 | 19.6 | 17.0 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | #5470.00 | 55.5 PK | 74.0 | -18.5 | 1.45 V | 308 | 51.0 | 4.5 |
| 2 | #5470.00 | 45.5 AV | 54.0 | -8.5 | 1.45 V | 308 | 41.0 | 4.5 |
| 3 | *5610.00 | 104.4 PK | | | 1.45 V | 308 | 99.7 | 4.7 |
| 4 | *5610.00 | 95.6 AV | | | 1.45 V | 308 | 90.9 | 4.7 |
| 5 | #5734.30 | 61.0 PK | 74.0 | -13.0 | 1.45 V | 308 | 56.0 | 5.0 |
| 6 | #5734.30 | 47.9 AV | 54.0 | -6.1 | 1.45 V | 308 | 42.9 | 5.0 |
| 7 | 11220.00 | 51.2 PK | 74.0 | -22.8 | 1.78 V | 56 | 36.8 | 14.4 |
| 8 | 11220.00 | 38.8 AV | 54.0 | -15.2 | 1.78 V | 56 | 24.4 | 14.4 |
| 9 | #16830.00 | 47.2 PK | 74.0 | -26.8 | 1.36 V | 40 | 30.2 | 17.0 |
| 10 | #16830.00 | 35.5 AV | 54.0 | -18.5 | 1.36 V | 40 | 18.5 | 17.0 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 138 | 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 | 52.4 PK | 74.0 | -21.6 | 1.50 H | 1 | 47.9 | 4.5 |
| 2 | #5470.00 | 43.2 AV | 54.0 | -10.8 | 1.50 H | 1 | 38.7 | 4.5 |
| 3 | *5690.00 | 107.0 PK | | | 1.50 H | 1 | 102.2 | 4.8 |
| 4 | *5690.00 | 97.4 AV | | | 1.50 H | 1 | 92.6 | 4.8 |
| 5 | #5858.50 | 62.8 PK | 74.0 | -11.2 | 1.50 H | 1 | 57.6 | 5.2 |
| 6 | #5858.50 | 50.2 AV | 54.0 | -3.8 | 1.50 H | 1 | 45.0 | 5.2 |
| 7 | 11380.00 | 56.1 PK | 74.0 | -17.9 | 1.41 H | 28 | 41.7 | 14.4 |
| 8 | 11380.00 | 43.0 AV | 54.0 | -11.0 | 1.41 H | 28 | 28.6 | 14.4 |
| 9 | #17070.00 | 53.5 PK | 74.0 | -20.5 | 2.13 H | 18 | 35.2 | 18.3 |
| 10 | #17070.00 | 36.9 AV | 54.0 | -17.1 | 2.13 H | 18 | 18.6 | 18.3 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | #5470.00 | 49.3 PK | 74.0 | -24.7 | 1.43 V | 305 | 44.8 | 4.5 |
| 2 | #5470.00 | 40.1 AV | 54.0 | -13.9 | 1.43 V | 305 | 35.6 | 4.5 |
| 3 | *5690.00 | 103.9 PK | | | 1.43 V | 305 | 99.1 | 4.8 |
| 4 | *5690.00 | 94.3 AV | | | 1.43 V | 305 | 89.5 | 4.8 |
| 5 | #5858.50 | 59.7 PK | 74.0 | -14.3 | 1.43 V | 305 | 54.5 | 5.2 |
| 6 | #5858.50 | 47.1 AV | 54.0 | -6.9 | 1.43 V | 305 | 41.9 | 5.2 |
| 7 | 11380.00 | 51.8 PK | 74.0 | -22.2 | 1.81 V | 56 | 37.4 | 14.4 |
| 8 | 11380.00 | 39.2 AV | 54.0 | -14.8 | 1.81 V | 56 | 24.8 | 14.4 |
| 9 | #17070.00 | 47.4 PK | 74.0 | -26.6 | 1.35 V | 48 | 29.1 | 18.3 |
| 10 | #17070.00 | 35.8 AV | 54.0 | -18.2 | 1.35 V | 48 | 17.5 | 18.3 |

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.

Below 1GHz Data:

802.11ac (VHT80)

| | | | |
|------------------------|----------------|--------------------------|-----------------|
| CHANNEL | TX Channel 122 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 9kHz ~ 1GHz | | |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 109.52 | 33.8 QP | 43.5 | -9.7 | 2.50 H | 284 | 44.9 | -11.1 |
| 2 | 216.02 | 35.7 QP | 46.0 | -10.3 | 1.00 H | 291 | 47.2 | -11.5 |
| 3 | 507.48 | 30.7 QP | 46.0 | -15.3 | 1.50 H | 99 | 33.3 | -2.6 |
| 4 | 729.61 | 41.1 QP | 46.0 | -4.9 | 1.50 H | 355 | 39.7 | 1.4 |
| 5 | 745.98 | 35.7 QP | 46.0 | -10.3 | 1.50 H | 355 | 33.6 | 2.1 |
| 6 | 912.58 | 31.7 QP | 46.0 | -14.3 | 1.50 H | 316 | 27.5 | 4.2 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 109.37 | 39.1 QP | 43.5 | -4.4 | 1.00 V | 360 | 50.2 | -11.1 |
| 2 | 139.97 | 29.5 QP | 43.5 | -14.0 | 1.00 V | 53 | 37.9 | -8.4 |
| 3 | 216.02 | 29.4 QP | 46.0 | -16.6 | 1.00 V | 164 | 40.9 | -11.5 |
| 4 | 465.31 | 31.6 QP | 46.0 | -14.4 | 1.00 V | 95 | 35.0 | -3.4 |
| 5 | 644.35 | 33.6 QP | 46.0 | -12.4 | 1.00 V | 16 | 33.5 | 0.1 |
| 6 | 931.83 | 33.4 QP | 46.0 | -12.6 | 1.00 V | 115 | 28.9 | 4.5 |

REMARKS:

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

4.1.8 Test Results (Mode 2)

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 | 5101.00 | 51.2 PK | 74.0 | -22.8 | 1.50 H | 273 | 47.3 | 3.9 |
| 2 | 5101.00 | 41.6 AV | 54.0 | -12.4 | 1.50 H | 273 | 37.7 | 3.9 |
| 3 | *5260.00 | 109.2 PK | | | 1.50 H | 273 | 105.0 | 4.2 |
| 4 | *5260.00 | 99.9 AV | | | 1.50 H | 273 | 95.7 | 4.2 |
| 5 | #10520.00 | 53.4 PK | 74.0 | -20.6 | 2.18 H | 312 | 39.6 | 13.8 |
| 6 | #10520.00 | 42.1 AV | 54.0 | -11.9 | 2.18 H | 312 | 28.3 | 13.8 |
| 7 | 15780.00 | 51.7 PK | 74.0 | -22.3 | 1.64 H | 36 | 37.6 | 14.1 |
| 8 | 15780.00 | 39.7 AV | 54.0 | -14.3 | 1.64 H | 36 | 25.6 | 14.1 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5101.00 | 50.0 PK | 74.0 | -24.0 | 1.35 V | 360 | 46.1 | 3.9 |
| 2 | 5101.00 | 39.3 AV | 54.0 | -14.7 | 1.35 V | 360 | 35.4 | 3.9 |
| 3 | *5260.00 | 107.2 PK | | | 1.35 V | 360 | 103.0 | 4.2 |
| 4 | *5260.00 | 97.9 AV | | | 1.35 V | 360 | 93.7 | 4.2 |
| 5 | #10520.00 | 50.6 PK | 74.0 | -23.4 | 1.55 V | 296 | 36.8 | 13.8 |
| 6 | #10520.00 | 38.2 AV | 54.0 | -15.8 | 1.55 V | 296 | 24.4 | 13.8 |
| 7 | 15780.00 | 45.3 PK | 74.0 | -28.7 | 1.29 V | 222 | 31.2 | 14.1 |
| 8 | 15780.00 | 33.0 AV | 54.0 | -21.0 | 1.29 V | 222 | 18.9 | 14.1 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 | 5141.40 | 48.4 PK | 74.0 | -25.6 | 1.50 H | 273 | 44.4 | 4.0 |
| 2 | 5141.40 | 40.9 AV | 54.0 | -13.1 | 1.50 H | 273 | 36.9 | 4.0 |
| 3 | *5300.00 | 109.9 PK | | | 1.50 H | 273 | 105.6 | 4.3 |
| 4 | *5300.00 | 100.1 AV | | | 1.50 H | 273 | 95.8 | 4.3 |
| 5 | 5350.00 | 50.8 PK | 74.0 | -23.2 | 1.50 H | 273 | 46.4 | 4.4 |
| 6 | 5350.00 | 39.4 AV | 54.0 | -14.6 | 1.50 H | 273 | 35.0 | 4.4 |
| 7 | 10600.00 | 53.7 PK | 74.0 | -20.3 | 2.13 H | 316 | 39.9 | 13.8 |
| 8 | 10600.00 | 42.4 AV | 54.0 | -11.6 | 2.13 H | 316 | 28.6 | 13.8 |
| 9 | 15900.00 | 52.1 PK | 74.0 | -21.9 | 1.61 H | 29 | 38.9 | 13.2 |
| 10 | 15900.00 | 39.8 AV | 54.0 | -14.2 | 1.61 H | 29 | 26.6 | 13.2 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 5141.40 | 45.6 PK | 74.0 | -28.4 | 1.37 V | 357 | 41.6 | 4.0 |
| 2 | 5141.40 | 38.8 AV | 54.0 | -15.2 | 1.37 V | 357 | 34.8 | 4.0 |
| 3 | *5300.00 | 107.9 PK | | | 1.37 V | 357 | 103.6 | 4.3 |
| 4 | *5300.00 | 97.8 AV | | | 1.37 V | 357 | 93.5 | 4.3 |
| 5 | 5350.00 | 49.4 PK | 74.0 | -24.6 | 1.37 V | 357 | 45.0 | 4.4 |
| 6 | 5350.00 | 38.2 AV | 54.0 | -15.8 | 1.37 V | 357 | 33.8 | 4.4 |
| 7 | 10600.00 | 50.5 PK | 74.0 | -23.5 | 1.56 V | 306 | 36.7 | 13.8 |
| 8 | 10600.00 | 38.2 AV | 54.0 | -15.8 | 1.56 V | 306 | 24.4 | 13.8 |
| 9 | 15900.00 | 45.0 PK | 74.0 | -29.0 | 1.26 V | 209 | 31.8 | 13.2 |
| 10 | 15900.00 | 32.7 AV | 54.0 | -21.3 | 1.26 V | 209 | 19.5 | 13.2 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 | 110.8 PK | | | 1.69 H | 255 | 106.5 | 4.3 |
| 2 | *5320.00 | 100.6 AV | | | 1.69 H | 255 | 96.3 | 4.3 |
| 3 | 5351.00 | 65.8 PK | 74.0 | -8.2 | 1.69 H | 255 | 61.4 | 4.4 |
| 4 | 5351.00 | 46.4 AV | 54.0 | -7.6 | 1.69 H | 255 | 42.0 | 4.4 |
| 5 | 10640.00 | 53.1 PK | 74.0 | -20.9 | 2.13 H | 319 | 39.1 | 14.0 |
| 6 | 10640.00 | 41.9 AV | 54.0 | -12.1 | 2.13 H | 319 | 27.9 | 14.0 |
| 7 | 15960.00 | 51.6 PK | 74.0 | -22.4 | 1.62 H | 21 | 38.1 | 13.5 |
| 8 | 15960.00 | 39.4 AV | 54.0 | -14.6 | 1.62 H | 21 | 25.9 | 13.5 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | *5320.00 | 108.5 PK | | | 1.37 V | 355 | 104.2 | 4.3 |
| 2 | *5320.00 | 98.3 AV | | | 1.37 V | 355 | 94.0 | 4.3 |
| 3 | 5351.00 | 63.7 PK | 74.0 | -10.3 | 1.37 V | 355 | 59.3 | 4.4 |
| 4 | 5351.00 | 44.1 AV | 54.0 | -9.9 | 1.37 V | 355 | 39.7 | 4.4 |
| 5 | 10640.00 | 50.6 PK | 74.0 | -23.4 | 1.58 V | 293 | 36.6 | 14.0 |
| 6 | 10640.00 | 38.0 AV | 54.0 | -16.0 | 1.58 V | 293 | 24.0 | 14.0 |
| 7 | 15960.00 | 45.4 PK | 74.0 | -28.6 | 1.24 V | 220 | 31.9 | 13.5 |
| 8 | 15960.00 | 33.2 AV | 54.0 | -20.8 | 1.24 V | 220 | 19.7 | 13.5 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 | #5346.90 | 58.4 PK | 74.0 | -15.6 | 1.83 H | 292 | 54.0 | 4.4 |
| 2 | #5346.90 | 49.5 AV | 54.0 | -4.5 | 1.83 H | 292 | 45.1 | 4.4 |
| 3 | #5470.00 | 62.9 PK | 74.0 | -11.1 | 1.63 H | 275 | 58.4 | 4.5 |
| 4 | #5470.00 | 46.1 AV | 54.0 | -7.9 | 1.63 H | 275 | 41.6 | 4.5 |
| 5 | *5500.00 | 108.8 PK | | | 1.63 H | 275 | 104.3 | 4.5 |
| 6 | *5500.00 | 99.2 AV | | | 1.63 H | 275 | 94.7 | 4.5 |
| 7 | 11000.00 | 57.0 PK | 74.0 | -17.0 | 2.09 H | 348 | 42.2 | 14.8 |
| 8 | 11000.00 | 45.9 AV | 54.0 | -8.1 | 2.09 H | 348 | 31.1 | 14.8 |
| 9 | #16500.00 | 62.5 PK | 74.0 | -11.5 | 1.13 H | 37 | 46.9 | 15.6 |
| 10 | #16500.00 | 49.7 AV | 54.0 | -4.3 | 1.13 H | 37 | 34.1 | 15.6 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | #5346.90 | 56.3 PK | 74.0 | -17.7 | 1.33 V | 342 | 51.9 | 4.4 |
| 2 | #5346.90 | 47.2 AV | 54.0 | -6.8 | 1.33 V | 342 | 42.8 | 4.4 |
| 3 | #5470.00 | 61.0 PK | 74.0 | -13.0 | 1.33 V | 342 | 56.5 | 4.5 |
| 4 | #5470.00 | 43.8 AV | 54.0 | -10.2 | 1.33 V | 342 | 39.3 | 4.5 |
| 5 | *5500.00 | 106.8 PK | | | 1.33 V | 342 | 102.3 | 4.5 |
| 6 | *5500.00 | 97.4 AV | | | 1.33 V | 342 | 92.9 | 4.5 |
| 7 | 11000.00 | 62.4 PK | 74.0 | -11.6 | 1.03 V | 269 | 47.6 | 14.8 |
| 8 | 11000.00 | 50.5 AV | 54.0 | -3.5 | 1.03 V | 269 | 35.7 | 14.8 |
| 9 | #16500.00 | 53.0 PK | 74.0 | -21.0 | 1.45 V | 252 | 37.4 | 15.6 |
| 10 | #16500.00 | 41.6 AV | 54.0 | -12.4 | 1.45 V | 252 | 26.0 | 15.6 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 | 5423.20 | 56.2 PK | 74.0 | -17.8 | 1.50 H | 26 | 51.7 | 4.5 |
| 2 | 5423.20 | 47.5 AV | 54.0 | -6.5 | 1.50 H | 26 | 43.0 | 4.5 |
| 3 | *5580.00 | 110.3 PK | | | 1.50 H | 360 | 105.7 | 4.6 |
| 4 | *5580.00 | 100.0 AV | | | 1.50 H | 360 | 95.4 | 4.6 |
| 5 | #5744.50 | 58.5 PK | 74.0 | -15.5 | 1.50 H | 360 | 53.5 | 5.0 |
| 6 | #5744.50 | 49.2 AV | 54.0 | -4.8 | 1.50 H | 360 | 44.2 | 5.0 |
| 7 | 11160.00 | 57.4 PK | 74.0 | -16.6 | 2.09 H | 336 | 43.0 | 14.4 |
| 8 | 11160.00 | 46.0 AV | 54.0 | -8.0 | 2.09 H | 336 | 31.6 | 14.4 |
| 9 | #16740.00 | 62.8 PK | 74.0 | -11.2 | 1.18 H | 36 | 46.3 | 16.5 |
| 10 | #16740.00 | 49.8 AV | 54.0 | -4.2 | 1.18 H | 36 | 33.3 | 16.5 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 5423.20 | 54.3 PK | 74.0 | -19.7 | 1.36 V | 340 | 49.8 | 4.5 |
| 2 | 5423.20 | 45.2 AV | 54.0 | -8.8 | 1.36 V | 340 | 40.7 | 4.5 |
| 3 | *5580.00 | 108.3 PK | | | 1.36 V | 340 | 103.7 | 4.6 |
| 4 | *5580.00 | 98.2 AV | | | 1.36 V | 340 | 93.6 | 4.6 |
| 5 | #5744.50 | 56.4 PK | 74.0 | -17.6 | 1.36 V | 340 | 51.4 | 5.0 |
| 6 | #5744.50 | 47.0 AV | 54.0 | -7.0 | 1.36 V | 340 | 42.0 | 5.0 |
| 7 | 11160.00 | 61.8 PK | 74.0 | -12.2 | 1.00 V | 282 | 47.4 | 14.4 |
| 8 | 11160.00 | 50.1 AV | 54.0 | -3.9 | 1.00 V | 282 | 35.7 | 14.4 |
| 9 | #16740.00 | 52.8 PK | 74.0 | -21.2 | 1.42 V | 254 | 36.3 | 16.5 |
| 10 | #16740.00 | 41.4 AV | 54.0 | -12.6 | 1.42 V | 254 | 24.9 | 16.5 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 | 110.7 PK | | | 1.50 H | 23 | 105.9 | 4.8 |
| 2 | *5700.00 | 100.0 AV | | | 1.50 H | 23 | 95.2 | 4.8 |
| 3 | #5725.00 | 67.7 PK | 74.0 | -6.3 | 1.50 H | 23 | 62.8 | 4.9 |
| 4 | #5725.00 | 48.9 AV | 54.0 | -5.1 | 1.50 H | 23 | 44.0 | 4.9 |
| 5 | #5856.20 | 59.3 PK | 74.0 | -14.7 | 2.04 H | 54 | 54.1 | 5.2 |
| 6 | #5856.20 | 49.6 AV | 54.0 | -4.4 | 2.04 H | 54 | 44.4 | 5.2 |
| 7 | 11400.00 | 57.4 PK | 74.0 | -16.6 | 2.06 H | 338 | 43.0 | 14.4 |
| 8 | 11400.00 | 46.0 AV | 54.0 | -8.0 | 2.06 H | 338 | 31.6 | 14.4 |
| 9 | #17100.00 | 62.9 PK | 74.0 | -11.1 | 1.15 H | 28 | 44.4 | 18.5 |
| 10 | #17100.00 | 49.9 AV | 54.0 | -4.1 | 1.15 H | 28 | 31.4 | 18.5 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | *5700.00 | 108.8 PK | | | 1.41 V | 343 | 104.0 | 4.8 |
| 2 | *5700.00 | 97.9 AV | | | 1.41 V | 343 | 93.1 | 4.8 |
| 3 | #5725.00 | 65.6 PK | 74.0 | -8.4 | 1.41 V | 343 | 60.7 | 4.9 |
| 4 | #5725.00 | 46.6 AV | 54.0 | -7.4 | 1.41 V | 343 | 41.7 | 4.9 |
| 5 | #5856.20 | 57.2 PK | 74.0 | -16.8 | 1.41 V | 343 | 52.0 | 5.2 |
| 6 | #5856.20 | 47.3 AV | 54.0 | -6.7 | 1.41 V | 343 | 42.1 | 5.2 |
| 7 | 11400.00 | 61.3 PK | 74.0 | -12.7 | 1.03 V | 296 | 46.9 | 14.4 |
| 8 | 11400.00 | 49.9 AV | 54.0 | -4.1 | 1.03 V | 296 | 35.5 | 14.4 |
| 9 | #17100.00 | 53.2 PK | 74.0 | -20.8 | 1.44 V | 248 | 34.7 | 18.5 |
| 10 | #17100.00 | 41.9 AV | 54.0 | -12.1 | 1.44 V | 248 | 23.4 | 18.5 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 144 | 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 | 47.0 PK | 74.0 | -27.0 | 1.44 H | 23 | 42.5 | 4.5 |
| 2 | #5470.00 | 38.6 AV | 54.0 | -15.4 | 1.44 H | 23 | 34.1 | 4.5 |
| 3 | *5720.00 | 110.0 PK | | | 1.44 H | 23 | 105.1 | 4.9 |
| 4 | *5720.00 | 100.3 AV | | | 1.44 H | 23 | 95.4 | 4.9 |
| 5 | #5875.60 | 59.6 PK | 74.0 | -14.4 | 2.10 H | 51 | 54.4 | 5.2 |
| 6 | #5875.60 | 50.0 AV | 54.0 | -4.0 | 2.10 H | 51 | 44.8 | 5.2 |
| 7 | 11440.00 | 57.0 PK | 74.0 | -17.0 | 2.12 H | 353 | 42.8 | 14.2 |
| 8 | 11440.00 | 45.6 AV | 54.0 | -8.4 | 2.12 H | 353 | 31.4 | 14.2 |
| 9 | #17160.00 | 62.4 PK | 74.0 | -11.6 | 1.09 H | 29 | 44.1 | 18.3 |
| 10 | #17160.00 | 49.5 AV | 54.0 | -4.5 | 1.09 H | 29 | 31.2 | 18.3 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | #5470.00 | 44.9 PK | 74.0 | -29.1 | 1.37 V | 341 | 40.4 | 4.5 |
| 2 | #5470.00 | 37.2 AV | 54.0 | -16.8 | 1.37 V | 341 | 32.7 | 4.5 |
| 3 | *5720.00 | 108.4 PK | | | 1.37 V | 341 | 103.5 | 4.9 |
| 4 | *5720.00 | 98.5 AV | | | 1.37 V | 341 | 93.6 | 4.9 |
| 5 | #5875.60 | 57.3 PK | 74.0 | -16.7 | 1.37 V | 341 | 52.1 | 5.2 |
| 6 | #5875.60 | 47.7 AV | 54.0 | -6.3 | 1.37 V | 341 | 42.5 | 5.2 |
| 7 | 11440.00 | 61.2 PK | 74.0 | -12.8 | 1.07 V | 306 | 47.0 | 14.2 |
| 8 | 11440.00 | 49.6 AV | 54.0 | -4.4 | 1.07 V | 306 | 35.4 | 14.2 |
| 9 | #17160.00 | 53.1 PK | 74.0 | -20.9 | 1.39 V | 248 | 34.8 | 18.3 |
| 10 | #17160.00 | 41.8 AV | 54.0 | -12.2 | 1.39 V | 248 | 23.5 | 18.3 |

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.

802.11ac (VHT20)

| | | | |
|------------------------|---------------|------------------------------|--------------|
| 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 | 5106.70 | 48.2 PK | 74.0 | -25.8 | 3.05 H | 55 | 44.3 | 3.9 |
| 2 | 5106.70 | 39.0 AV | 54.0 | -15.0 | 3.05 H | 55 | 35.1 | 3.9 |
| 3 | *5260.00 | 109.2 PK | | | 3.05 H | 54 | 105.0 | 4.2 |
| 4 | *5260.00 | 98.8 AV | | | 3.05 H | 54 | 94.6 | 4.2 |
| 5 | 5416.60 | 48.6 PK | 74.0 | -25.4 | 3.05 H | 55 | 44.1 | 4.5 |
| 6 | 5416.60 | 39.6 AV | 54.0 | -14.4 | 3.05 H | 55 | 35.1 | 4.5 |
| 7 | #10520.00 | 53.3 PK | 74.0 | -20.7 | 2.21 H | 312 | 39.5 | 13.8 |
| 8 | #10520.00 | 42.3 AV | 54.0 | -11.7 | 2.21 H | 312 | 28.5 | 13.8 |
| 9 | 15780.00 | 51.0 PK | 74.0 | -23.0 | 1.72 H | 67 | 36.9 | 14.1 |
| 10 | 15780.00 | 38.7 AV | 54.0 | -15.3 | 1.72 H | 67 | 24.6 | 14.1 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 5106.70 | 47.0 PK | 74.0 | -27.0 | 1.40 V | 354 | 43.1 | 3.9 |
| 2 | 5106.70 | 37.4 AV | 54.0 | -16.6 | 1.40 V | 354 | 33.5 | 3.9 |
| 3 | *5260.00 | 107.1 PK | | | 1.40 V | 354 | 102.9 | 4.2 |
| 4 | *5260.00 | 96.7 AV | | | 1.40 V | 354 | 92.5 | 4.2 |
| 5 | 5416.60 | 47.3 PK | 74.0 | -26.7 | 1.40 V | 354 | 42.8 | 4.5 |
| 6 | 5416.60 | 38.3 AV | 54.0 | -15.7 | 1.40 V | 354 | 33.8 | 4.5 |
| 7 | #10520.00 | 49.8 PK | 74.0 | -24.2 | 1.54 V | 262 | 36.0 | 13.8 |
| 8 | #10520.00 | 37.8 AV | 54.0 | -16.2 | 1.54 V | 262 | 24.0 | 13.8 |
| 9 | 15780.00 | 44.0 PK | 74.0 | -30.0 | 1.29 V | 224 | 29.9 | 14.1 |
| 10 | 15780.00 | 32.2 AV | 54.0 | -21.8 | 1.29 V | 224 | 18.1 | 14.1 |

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 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 | 5137.20 | 48.7 PK | 74.0 | -25.3 | 1.62 H | 57 | 44.7 | 4.0 |
| 2 | 5137.20 | 37.9 AV | 54.0 | -16.1 | 1.62 H | 57 | 33.9 | 4.0 |
| 3 | *5300.00 | 109.3 PK | | | 1.62 H | 57 | 105.0 | 4.3 |
| 4 | *5300.00 | 98.2 AV | | | 1.62 H | 57 | 93.9 | 4.3 |
| 5 | 5351.00 | 54.4 PK | 74.0 | -19.6 | 1.62 H | 57 | 50.0 | 4.4 |
| 6 | 5351.00 | 39.7 AV | 54.0 | -14.3 | 1.62 H | 57 | 35.3 | 4.4 |
| 7 | 10600.00 | 53.1 PK | 74.0 | -20.9 | 2.27 H | 308 | 39.3 | 13.8 |
| 8 | 10600.00 | 42.4 AV | 54.0 | -11.6 | 2.27 H | 308 | 28.6 | 13.8 |
| 9 | 15900.00 | 51.2 PK | 74.0 | -22.8 | 1.68 H | 77 | 38.0 | 13.2 |
| 10 | 15900.00 | 38.9 AV | 54.0 | -15.1 | 1.68 H | 77 | 25.7 | 13.2 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 5137.20 | 46.6 PK | 74.0 | -27.4 | 1.37 V | 343 | 42.6 | 4.0 |
| 2 | 5137.20 | 37.4 AV | 54.0 | -16.6 | 1.37 V | 343 | 33.4 | 4.0 |
| 3 | *5300.00 | 107.2 PK | | | 1.37 V | 343 | 102.9 | 4.3 |
| 4 | *5300.00 | 96.0 AV | | | 1.37 V | 343 | 91.7 | 4.3 |
| 5 | 5351.00 | 52.3 PK | 74.0 | -21.7 | 1.37 V | 343 | 47.9 | 4.4 |
| 6 | 5351.00 | 37.5 AV | 54.0 | -16.5 | 1.37 V | 343 | 33.1 | 4.4 |
| 7 | 10600.00 | 49.9 PK | 74.0 | -24.1 | 1.56 V | 287 | 36.1 | 13.8 |
| 8 | 10600.00 | 38.1 AV | 54.0 | -15.9 | 1.56 V | 287 | 24.3 | 13.8 |
| 9 | 15900.00 | 43.0 PK | 74.0 | -31.0 | 1.31 V | 226 | 29.8 | 13.2 |
| 10 | 15900.00 | 31.4 AV | 54.0 | -22.6 | 1.31 V | 226 | 18.2 | 13.2 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 | 108.0 PK | | | 1.62 H | 295 | 103.7 | 4.3 |
| 2 | *5320.00 | 97.4 AV | | | 1.62 H | 295 | 93.1 | 4.3 |
| 3 | 5350.00 | 60.7 PK | 74.0 | -13.3 | 1.62 H | 295 | 56.3 | 4.4 |
| 4 | 5350.00 | 44.9 AV | 54.0 | -9.1 | 1.62 H | 295 | 40.5 | 4.4 |
| 5 | 10640.00 | 52.7 PK | 74.0 | -21.3 | 2.19 H | 316 | 38.7 | 14.0 |
| 6 | 10640.00 | 41.8 AV | 54.0 | -12.2 | 2.19 H | 316 | 27.8 | 14.0 |
| 7 | 15960.00 | 51.0 PK | 74.0 | -23.0 | 1.72 H | 83 | 37.5 | 13.5 |
| 8 | 15960.00 | 38.8 AV | 54.0 | -15.2 | 1.72 H | 83 | 25.3 | 13.5 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | *5320.00 | 105.9 PK | | | 1.32 V | 347 | 101.6 | 4.3 |
| 2 | *5320.00 | 95.3 AV | | | 1.32 V | 347 | 91.0 | 4.3 |
| 3 | 5350.00 | 58.5 PK | 74.0 | -15.5 | 1.32 V | 347 | 54.1 | 4.4 |
| 4 | 5350.00 | 42.6 AV | 54.0 | -11.4 | 1.32 V | 347 | 38.2 | 4.4 |
| 5 | 10640.00 | 49.9 PK | 74.0 | -24.1 | 1.57 V | 269 | 35.9 | 14.0 |
| 6 | 10640.00 | 38.1 AV | 54.0 | -15.9 | 1.57 V | 269 | 24.1 | 14.0 |
| 7 | 15960.00 | 43.7 PK | 74.0 | -30.3 | 1.25 V | 204 | 30.2 | 13.5 |
| 8 | 15960.00 | 32.3 AV | 54.0 | -21.7 | 1.25 V | 204 | 18.8 | 13.5 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 | #5347.20 | 57.1 PK | 74.0 | -16.9 | 1.64 H | 53 | 52.7 | 4.4 |
| 2 | #5347.20 | 47.3 AV | 54.0 | -6.7 | 1.64 H | 53 | 42.9 | 4.4 |
| 3 | *5500.00 | 108.3 PK | | | 1.50 H | 55 | 103.8 | 4.5 |
| 4 | *5500.00 | 96.9 AV | | | 1.50 H | 55 | 92.4 | 4.5 |
| 5 | #5738.00 | 53.3 PK | 74.0 | -20.7 | 1.39 H | 12 | 48.3 | 5.0 |
| 6 | #5738.00 | 43.6 AV | 54.0 | -10.4 | 1.39 H | 12 | 38.6 | 5.0 |
| 7 | 11000.00 | 53.0 PK | 74.0 | -21.0 | 2.30 H | 324 | 38.2 | 14.8 |
| 8 | 11000.00 | 41.8 AV | 54.0 | -12.2 | 2.30 H | 324 | 27.0 | 14.8 |
| 9 | #16500.00 | 51.3 PK | 74.0 | -22.7 | 1.70 H | 80 | 35.7 | 15.6 |
| 10 | #16500.00 | 39.1 AV | 54.0 | -14.9 | 1.70 H | 80 | 23.5 | 15.6 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | #5347.20 | 54.8 PK | 74.0 | -19.2 | 1.26 V | 346 | 50.4 | 4.4 |
| 2 | #5347.20 | 45.0 AV | 54.0 | -9.0 | 1.26 V | 346 | 40.6 | 4.4 |
| 3 | *5500.00 | 106.3 PK | | | 1.26 V | 346 | 101.8 | 4.5 |
| 4 | *5500.00 | 94.8 AV | | | 1.26 V | 346 | 90.3 | 4.5 |
| 5 | #5738.00 | 51.0 PK | 74.0 | -23.0 | 1.26 V | 346 | 46.0 | 5.0 |
| 6 | #5738.00 | 41.3 AV | 54.0 | -12.7 | 1.26 V | 346 | 36.3 | 5.0 |
| 7 | 11000.00 | 50.4 PK | 74.0 | -23.6 | 1.59 V | 267 | 35.6 | 14.8 |
| 8 | 11000.00 | 38.4 AV | 54.0 | -15.6 | 1.59 V | 267 | 23.6 | 14.8 |
| 9 | #16500.00 | 43.8 PK | 74.0 | -30.2 | 1.27 V | 213 | 28.2 | 15.6 |
| 10 | #16500.00 | 32.0 AV | 54.0 | -22.0 | 1.27 V | 213 | 16.4 | 15.6 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 | 5417.20 | 57.5 PK | 74.0 | -16.5 | 1.50 H | 56 | 53.0 | 4.5 |
| 2 | 5417.20 | 48.0 AV | 54.0 | -6.0 | 1.50 H | 56 | 43.5 | 4.5 |
| 3 | *5580.00 | 109.0 PK | | | 1.50 H | 60 | 104.4 | 4.6 |
| 4 | *5580.00 | 97.8 AV | | | 1.50 H | 60 | 93.2 | 4.6 |
| 5 | #5725.00 | 57.0 PK | 74.0 | -17.0 | 1.50 H | 48 | 52.1 | 4.9 |
| 6 | #5725.00 | 47.3 AV | 54.0 | -6.7 | 1.50 H | 48 | 42.4 | 4.9 |
| 7 | 11160.00 | 52.9 PK | 74.0 | -21.1 | 2.23 H | 311 | 38.5 | 14.4 |
| 8 | 11160.00 | 42.1 AV | 54.0 | -11.9 | 2.23 H | 311 | 27.7 | 14.4 |
| 9 | #16740.00 | 51.7 PK | 74.0 | -22.3 | 1.76 H | 70 | 35.2 | 16.5 |
| 10 | #16740.00 | 39.5 AV | 54.0 | -14.5 | 1.76 H | 70 | 23.0 | 16.5 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 5417.20 | 55.2 PK | 74.0 | -18.8 | 1.27 V | 332 | 50.7 | 4.5 |
| 2 | 5417.20 | 45.7 AV | 54.0 | -8.3 | 1.27 V | 332 | 41.2 | 4.5 |
| 3 | *5580.00 | 107.1 PK | | | 1.27 V | 332 | 102.5 | 4.6 |
| 4 | *5580.00 | 95.7 AV | | | 1.27 V | 332 | 91.1 | 4.6 |
| 5 | #5725.00 | 54.7 PK | 74.0 | -19.3 | 1.27 V | 332 | 49.8 | 4.9 |
| 6 | #5725.00 | 45.0 AV | 54.0 | -9.0 | 1.27 V | 332 | 40.1 | 4.9 |
| 7 | 11160.00 | 50.0 PK | 74.0 | -24.0 | 1.56 V | 261 | 35.6 | 14.4 |
| 8 | 11160.00 | 38.3 AV | 54.0 | -15.7 | 1.56 V | 261 | 23.9 | 14.4 |
| 9 | #16740.00 | 43.8 PK | 74.0 | -30.2 | 1.28 V | 210 | 27.3 | 16.5 |
| 10 | #16740.00 | 31.9 AV | 54.0 | -22.1 | 1.28 V | 210 | 15.4 | 16.5 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 | | | 1.72 H | 43 | 103.4 | 4.8 |
| 2 | *5700.00 | 97.7 AV | | | 1.72 H | 43 | 92.9 | 4.8 |
| 3 | #5725.90 | 68.6 PK | 74.0 | -5.4 | 1.72 H | 43 | 63.7 | 4.9 |
| 4 | #5725.90 | 48.4 AV | 54.0 | -5.6 | 1.72 H | 43 | 43.5 | 4.9 |
| 5 | 11400.00 | 52.8 PK | 74.0 | -21.2 | 2.21 H | 329 | 38.4 | 14.4 |
| 6 | 11400.00 | 42.2 AV | 54.0 | -11.8 | 2.21 H | 329 | 27.8 | 14.4 |
| 7 | #17100.00 | 51.4 PK | 74.0 | -22.6 | 1.73 H | 87 | 32.9 | 18.5 |
| 8 | #17100.00 | 39.3 AV | 54.0 | -14.7 | 1.73 H | 87 | 20.8 | 18.5 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | *5700.00 | 106.3 PK | | | 1.27 V | 337 | 101.5 | 4.8 |
| 2 | *5700.00 | 95.6 AV | | | 1.27 V | 337 | 90.8 | 4.8 |
| 3 | #5725.90 | 66.3 PK | 74.0 | -7.7 | 1.27 V | 337 | 61.4 | 4.9 |
| 4 | #5725.90 | 46.1 AV | 54.0 | -7.9 | 1.27 V | 337 | 41.2 | 4.9 |
| 5 | 11400.00 | 49.8 PK | 74.0 | -24.2 | 1.48 V | 279 | 35.4 | 14.4 |
| 6 | 11400.00 | 37.7 AV | 54.0 | -16.3 | 1.48 V | 279 | 23.3 | 14.4 |
| 7 | #17100.00 | 43.6 PK | 74.0 | -30.4 | 1.31 V | 208 | 25.1 | 18.5 |
| 8 | #17100.00 | 32.1 AV | 54.0 | -21.9 | 1.31 V | 208 | 13.6 | 18.5 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 144 | 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 | 47.4 PK | 74.0 | -26.6 | 2.21 H | 51 | 42.9 | 4.5 |
| 2 | #5470.00 | 37.5 AV | 54.0 | -16.5 | 2.21 H | 51 | 33.0 | 4.5 |
| 3 | *5720.00 | 109.6 PK | | | 2.21 H | 51 | 104.7 | 4.9 |
| 4 | *5720.00 | 98.6 AV | | | 2.21 H | 51 | 93.7 | 4.9 |
| 5 | #5875.10 | 58.0 PK | 74.0 | -16.0 | 2.21 H | 282 | 52.8 | 5.2 |
| 6 | #5875.10 | 47.9 AV | 54.0 | -6.1 | 2.21 H | 282 | 42.7 | 5.2 |
| 7 | 11440.00 | 52.8 PK | 74.0 | -21.2 | 2.28 H | 305 | 38.6 | 14.2 |
| 8 | 11440.00 | 41.6 AV | 54.0 | -12.4 | 2.28 H | 305 | 27.4 | 14.2 |
| 9 | #17160.00 | 51.4 PK | 74.0 | -22.6 | 1.73 H | 63 | 33.1 | 18.3 |
| 10 | #17160.00 | 39.3 AV | 54.0 | -14.7 | 1.73 H | 63 | 21.0 | 18.3 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | #5470.00 | 45.2 PK | 74.0 | -28.8 | 1.23 V | 331 | 40.7 | 4.5 |
| 2 | #5470.00 | 35.2 AV | 54.0 | -18.8 | 1.23 V | 331 | 30.7 | 4.5 |
| 3 | *5720.00 | 107.5 PK | | | 1.23 V | 331 | 102.6 | 4.9 |
| 4 | *5720.00 | 96.4 AV | | | 1.23 V | 331 | 91.5 | 4.9 |
| 5 | #5875.10 | 55.8 PK | 74.0 | -18.2 | 1.23 V | 331 | 50.6 | 5.2 |
| 6 | #5875.10 | 45.6 AV | 54.0 | -8.4 | 1.23 V | 331 | 40.4 | 5.2 |
| 7 | 11440.00 | 49.5 PK | 74.0 | -24.5 | 1.50 V | 257 | 35.3 | 14.2 |
| 8 | 11440.00 | 37.7 AV | 54.0 | -16.3 | 1.50 V | 257 | 23.5 | 14.2 |
| 9 | #17160.00 | 43.7 PK | 74.0 | -30.3 | 1.22 V | 228 | 25.4 | 18.3 |
| 10 | #17160.00 | 32.2 AV | 54.0 | -21.8 | 1.22 V | 228 | 13.9 | 18.3 |

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 (VHT40)

| | | | |
|------------------------|---------------|------------------------------|--------------|
| 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 | 5118.10 | 56.4 PK | 74.0 | -17.6 | 1.50 H | 66 | 52.5 | 3.9 |
| 2 | 5118.10 | 47.8 AV | 54.0 | -6.2 | 1.50 H | 66 | 43.9 | 3.9 |
| 3 | *5270.00 | 109.4 PK | | | 1.50 H | 63 | 105.2 | 4.2 |
| 4 | *5270.00 | 97.9 AV | | | 1.50 H | 63 | 93.7 | 4.2 |
| 5 | 5436.20 | 56.4 PK | 74.0 | -17.6 | 1.50 H | 65 | 51.9 | 4.5 |
| 6 | 5436.20 | 47.3 AV | 54.0 | -6.7 | 1.50 H | 65 | 42.8 | 4.5 |
| 7 | #10540.00 | 52.3 PK | 74.0 | -21.7 | 2.21 H | 319 | 38.6 | 13.7 |
| 8 | #10540.00 | 41.5 AV | 54.0 | -12.5 | 2.21 H | 319 | 27.8 | 13.7 |
| 9 | 15810.00 | 51.5 PK | 74.0 | -22.5 | 1.79 H | 74 | 37.5 | 14.0 |
| 10 | 15810.00 | 39.2 AV | 54.0 | -14.8 | 1.79 H | 74 | 25.2 | 14.0 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 5118.10 | 55.2 PK | 74.0 | -18.8 | 1.42 V | 334 | 51.3 | 3.9 |
| 2 | 5118.10 | 46.6 AV | 54.0 | -7.4 | 1.42 V | 334 | 42.7 | 3.9 |
| 3 | *5270.00 | 108.1 PK | | | 1.42 V | 334 | 103.9 | 4.2 |
| 4 | *5270.00 | 96.6 AV | | | 1.42 V | 334 | 92.4 | 4.2 |
| 5 | 5436.20 | 55.1 PK | 74.0 | -18.9 | 1.42 V | 334 | 50.6 | 4.5 |
| 6 | 5436.20 | 46.1 AV | 54.0 | -7.9 | 1.42 V | 334 | 41.6 | 4.5 |
| 7 | #10540.00 | 50.5 PK | 74.0 | -23.5 | 1.55 V | 263 | 36.8 | 13.7 |
| 8 | #10540.00 | 38.3 AV | 54.0 | -15.7 | 1.55 V | 263 | 24.6 | 13.7 |
| 9 | 15810.00 | 43.9 PK | 74.0 | -30.1 | 1.24 V | 210 | 29.9 | 14.0 |
| 10 | 15810.00 | 32.3 AV | 54.0 | -21.7 | 1.24 V | 210 | 18.3 | 14.0 |

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 | 5142.60 | 55.8 PK | 74.0 | -18.2 | 3.06 H | 64 | 51.8 | 4.0 |
| 2 | 5142.60 | 48.2 AV | 54.0 | -5.8 | 3.06 H | 64 | 44.2 | 4.0 |
| 3 | *5310.00 | 108.1 PK | | | 3.06 H | 64 | 103.8 | 4.3 |
| 4 | *5310.00 | 99.5 AV | | | 3.06 H | 64 | 95.2 | 4.3 |
| 5 | 5350.00 | 66.1 PK | 74.0 | -7.9 | 3.06 H | 64 | 61.7 | 4.4 |
| 6 | 5350.00 | 47.0 AV | 54.0 | -7.0 | 3.06 H | 64 | 42.6 | 4.4 |
| 7 | 10620.00 | 52.5 PK | 74.0 | -21.5 | 2.30 H | 335 | 38.6 | 13.9 |
| 8 | 10620.00 | 41.6 AV | 54.0 | -12.4 | 2.30 H | 335 | 27.7 | 13.9 |
| 9 | 15930.00 | 51.8 PK | 74.0 | -22.2 | 1.76 H | 63 | 38.5 | 13.3 |
| 10 | 15930.00 | 39.6 AV | 54.0 | -14.4 | 1.76 H | 63 | 26.3 | 13.3 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 5142.60 | 54.6 PK | 74.0 | -19.4 | 1.39 V | 347 | 50.6 | 4.0 |
| 2 | 5142.60 | 47.0 AV | 54.0 | -7.0 | 1.39 V | 347 | 43.0 | 4.0 |
| 3 | *5310.00 | 106.9 PK | | | 1.39 V | 347 | 102.6 | 4.3 |
| 4 | *5310.00 | 98.3 AV | | | 1.39 V | 347 | 94.0 | 4.3 |
| 5 | 5350.00 | 64.9 PK | 74.0 | -9.1 | 1.39 V | 347 | 60.5 | 4.4 |
| 6 | 5350.00 | 45.8 AV | 54.0 | -8.2 | 1.39 V | 347 | 41.4 | 4.4 |
| 7 | 10620.00 | 50.5 PK | 74.0 | -23.5 | 1.56 V | 273 | 36.6 | 13.9 |
| 8 | 10620.00 | 38.4 AV | 54.0 | -15.6 | 1.56 V | 273 | 24.5 | 13.9 |
| 9 | 15930.00 | 43.1 PK | 74.0 | -30.9 | 1.24 V | 229 | 29.8 | 13.3 |
| 10 | 15930.00 | 31.5 AV | 54.0 | -22.5 | 1.24 V | 229 | 18.2 | 13.3 |

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 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 | #5470.00 | 67.9 PK | 74.0 | -6.1 | 1.50 H | 64 | 63.4 | 4.5 |
| 2 | #5470.00 | 51.7 AV | 54.0 | -2.3 | 1.50 H | 64 | 47.2 | 4.5 |
| 3 | *5510.00 | 108.4 PK | | | 1.50 H | 64 | 103.8 | 4.6 |
| 4 | *5510.00 | 98.9 AV | | | 1.50 H | 64 | 94.3 | 4.6 |
| 5 | #5740.80 | 52.9 PK | 74.0 | -21.1 | 1.50 H | 64 | 47.9 | 5.0 |
| 6 | #5740.80 | 43.8 AV | 54.0 | -10.2 | 1.50 H | 64 | 38.8 | 5.0 |
| 7 | 11020.00 | 52.8 PK | 74.0 | -21.2 | 2.29 H | 336 | 38.1 | 14.7 |
| 8 | 11020.00 | 41.9 AV | 54.0 | -12.1 | 2.29 H | 336 | 27.2 | 14.7 |
| 9 | #16530.00 | 51.0 PK | 74.0 | -23.0 | 1.75 H | 62 | 35.2 | 15.8 |
| 10 | #16530.00 | 38.9 AV | 54.0 | -15.1 | 1.75 H | 62 | 23.1 | 15.8 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | #5470.00 | 66.7 PK | 74.0 | -7.3 | 1.41 V | 336 | 62.2 | 4.5 |
| 2 | #5470.00 | 50.5 AV | 54.0 | -3.5 | 1.41 V | 336 | 46.0 | 4.5 |
| 3 | *5510.00 | 107.2 PK | | | 1.41 V | 336 | 102.6 | 4.6 |
| 4 | *5510.00 | 97.7 AV | | | 1.41 V | 336 | 93.1 | 4.6 |
| 5 | #5740.80 | 51.7 PK | 74.0 | -22.3 | 1.41 V | 336 | 46.7 | 5.0 |
| 6 | #5740.80 | 42.6 AV | 54.0 | -11.4 | 1.41 V | 336 | 37.6 | 5.0 |
| 7 | 11020.00 | 50.0 PK | 74.0 | -24.0 | 1.49 V | 288 | 35.3 | 14.7 |
| 8 | 11020.00 | 38.2 AV | 54.0 | -15.8 | 1.49 V | 288 | 23.5 | 14.7 |
| 9 | #16530.00 | 43.2 PK | 74.0 | -30.8 | 1.25 V | 205 | 27.4 | 15.8 |
| 10 | #16530.00 | 31.8 AV | 54.0 | -22.2 | 1.25 V | 205 | 16.0 | 15.8 |

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 5396.70 | 59.9 PK | 74.0 | -14.1 | 2.64 H | 55 | 55.5 | 4.4 |
| 2 | 5396.70 | 48.8 AV | 54.0 | -5.2 | 2.64 H | 55 | 44.4 | 4.4 |
| 3 | *5550.00 | 107.7 PK | | | 2.64 H | 55 | 103.2 | 4.5 |
| 4 | *5550.00 | 98.6 AV | | | 2.64 H | 55 | 94.1 | 4.5 |
| 5 | #5726.30 | 54.4 PK | 74.0 | -19.6 | 2.64 H | 42 | 49.5 | 4.9 |
| 6 | #5726.30 | 47.0 AV | 54.0 | -7.0 | 2.64 H | 42 | 42.1 | 4.9 |
| 7 | 11100.00 | 53.0 PK | 74.0 | -21.0 | 2.23 H | 319 | 38.6 | 14.4 |
| 8 | 11100.00 | 41.8 AV | 54.0 | -12.2 | 2.23 H | 319 | 27.4 | 14.4 |
| 9 | #16650.00 | 51.4 PK | 74.0 | -22.6 | 1.75 H | 81 | 35.0 | 16.4 |
| 10 | #16650.00 | 39.4 AV | 54.0 | -14.6 | 1.75 H | 81 | 23.0 | 16.4 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 5396.70 | 58.7 PK | 74.0 | -15.3 | 1.40 V | 343 | 54.3 | 4.4 |
| 2 | 5396.70 | 47.6 AV | 54.0 | -6.4 | 1.40 V | 343 | 43.2 | 4.4 |
| 3 | *5550.00 | 106.5 PK | | | 1.40 V | 343 | 102.0 | 4.5 |
| 4 | *5550.00 | 97.4 AV | | | 1.40 V | 343 | 92.9 | 4.5 |
| 5 | #5726.30 | 53.2 PK | 74.0 | -20.8 | 1.40 V | 343 | 48.3 | 4.9 |
| 6 | #5726.30 | 45.8 AV | 54.0 | -8.2 | 1.40 V | 343 | 40.9 | 4.9 |
| 7 | 11100.00 | 49.6 PK | 74.0 | -24.4 | 1.50 V | 286 | 35.2 | 14.4 |
| 8 | 11100.00 | 37.6 AV | 54.0 | -16.4 | 1.50 V | 286 | 23.2 | 14.4 |
| 9 | #16650.00 | 42.9 PK | 74.0 | -31.1 | 1.20 V | 223 | 26.5 | 16.4 |
| 10 | #16650.00 | 31.4 AV | 54.0 | -22.6 | 1.20 V | 223 | 15.0 | 16.4 |

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 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 | 110.1 PK | | | 2.18 H | 276 | 105.3 | 4.8 |
| 2 | *5670.00 | 100.8 AV | | | 2.18 H | 276 | 96.0 | 4.8 |
| 3 | #5725.00 | 65.6 PK | 74.0 | -8.4 | 2.18 H | 276 | 60.7 | 4.9 |
| 4 | #5725.00 | 52.2 AV | 54.0 | -1.8 | 2.18 H | 276 | 47.3 | 4.9 |
| 5 | 11340.00 | 52.8 PK | 74.0 | -21.2 | 2.23 H | 334 | 38.4 | 14.4 |
| 6 | 11340.00 | 41.9 AV | 54.0 | -12.1 | 2.23 H | 334 | 27.5 | 14.4 |
| 7 | #17010.00 | 51.6 PK | 74.0 | -22.4 | 1.73 H | 60 | 33.4 | 18.2 |
| 8 | #17010.00 | 39.5 AV | 54.0 | -14.5 | 1.73 H | 60 | 21.3 | 18.2 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | *5670.00 | 108.9 PK | | | 1.35 V | 347 | 104.1 | 4.8 |
| 2 | *5670.00 | 99.6 AV | | | 1.35 V | 347 | 94.8 | 4.8 |
| 3 | #5725.00 | 64.4 PK | 74.0 | -9.6 | 1.35 V | 347 | 59.5 | 4.9 |
| 4 | #5725.00 | 51.0 AV | 54.0 | -3.0 | 1.35 V | 347 | 46.1 | 4.9 |
| 5 | 11340.00 | 49.8 PK | 74.0 | -24.2 | 1.55 V | 261 | 35.4 | 14.4 |
| 6 | 11340.00 | 37.7 AV | 54.0 | -16.3 | 1.55 V | 261 | 23.3 | 14.4 |
| 7 | #17010.00 | 43.8 PK | 74.0 | -30.2 | 1.23 V | 200 | 25.6 | 18.2 |
| 8 | #17010.00 | 32.3 AV | 54.0 | -21.7 | 1.23 V | 200 | 14.1 | 18.2 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 142 | 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 | #5461.80 | 53.2 PK | 74.0 | -20.8 | 1.50 H | 63 | 48.7 | 4.5 |
| 2 | #5461.80 | 44.9 AV | 54.0 | -9.1 | 1.50 H | 63 | 40.4 | 4.5 |
| 3 | *5710.00 | 109.2 PK | | | 1.50 H | 24 | 104.3 | 4.9 |
| 4 | *5710.00 | 99.1 AV | | | 1.50 H | 24 | 94.2 | 4.9 |
| 5 | #5861.80 | 57.1 PK | 74.0 | -16.9 | 1.50 H | 50 | 51.9 | 5.2 |
| 6 | #5861.80 | 48.8 AV | 54.0 | -5.2 | 1.50 H | 50 | 43.6 | 5.2 |
| 7 | 11420.00 | 52.5 PK | 74.0 | -21.5 | 2.29 H | 321 | 38.2 | 14.3 |
| 8 | 11420.00 | 41.5 AV | 54.0 | -12.5 | 2.29 H | 321 | 27.2 | 14.3 |
| 9 | #17130.00 | 50.9 PK | 74.0 | -23.1 | 1.77 H | 64 | 32.4 | 18.5 |
| 10 | #17130.00 | 38.8 AV | 54.0 | -15.2 | 1.77 H | 64 | 20.3 | 18.5 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | #5461.80 | 52.0 PK | 74.0 | -22.0 | 1.30 V | 347 | 47.5 | 4.5 |
| 2 | #5461.80 | 43.7 AV | 54.0 | -10.3 | 1.30 V | 347 | 39.2 | 4.5 |
| 3 | *5710.00 | 108.0 PK | | | 1.30 V | 347 | 103.1 | 4.9 |
| 4 | *5710.00 | 97.9 AV | | | 1.30 V | 347 | 93.0 | 4.9 |
| 5 | #5861.80 | 55.9 PK | 74.0 | -18.1 | 1.30 V | 347 | 50.7 | 5.2 |
| 6 | #5861.80 | 47.6 AV | 54.0 | -6.4 | 1.30 V | 347 | 42.4 | 5.2 |
| 7 | 11420.00 | 50.2 PK | 74.0 | -23.8 | 1.55 V | 261 | 35.9 | 14.3 |
| 8 | 11420.00 | 38.5 AV | 54.0 | -15.5 | 1.55 V | 261 | 24.2 | 14.3 |
| 9 | #17130.00 | 43.4 PK | 74.0 | -30.6 | 1.32 V | 213 | 24.9 | 18.5 |
| 10 | #17130.00 | 31.7 AV | 54.0 | -22.3 | 1.32 V | 213 | 13.2 | 18.5 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 | 5142.70 | 52.9 PK | 74.0 | -21.1 | 1.50 H | 61 | 48.9 | 4.0 |
| 2 | 5142.70 | 44.6 AV | 54.0 | -9.4 | 1.50 H | 61 | 40.6 | 4.0 |
| 3 | *5290.00 | 104.8 PK | | | 1.50 H | 61 | 100.5 | 4.3 |
| 4 | *5290.00 | 95.4 AV | | | 1.50 H | 61 | 91.1 | 4.3 |
| 5 | 5352.70 | 68.4 PK | 74.0 | -5.6 | 1.50 H | 61 | 64.0 | 4.4 |
| 6 | 5352.70 | 51.0 AV | 54.0 | -3.0 | 1.50 H | 61 | 46.6 | 4.4 |
| 7 | #10580.00 | 53.5 PK | 74.0 | -20.5 | 2.17 H | 328 | 39.6 | 13.9 |
| 8 | #10580.00 | 42.6 AV | 54.0 | -11.4 | 2.17 H | 328 | 28.7 | 13.9 |
| 9 | 15870.00 | 51.4 PK | 74.0 | -22.6 | 1.71 H | 69 | 38.0 | 13.4 |
| 10 | 15870.00 | 39.1 AV | 54.0 | -14.9 | 1.71 H | 69 | 25.7 | 13.4 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 5142.70 | 51.6 PK | 74.0 | -22.4 | 1.47 V | 348 | 47.6 | 4.0 |
| 2 | 5142.70 | 43.3 AV | 54.0 | -10.7 | 1.47 V | 348 | 39.3 | 4.0 |
| 3 | *5290.00 | 103.6 PK | | | 1.47 V | 348 | 99.3 | 4.3 |
| 4 | *5290.00 | 94.2 AV | | | 1.47 V | 348 | 89.9 | 4.3 |
| 5 | 5352.70 | 67.1 PK | 74.0 | -6.9 | 1.47 V | 348 | 62.7 | 4.4 |
| 6 | 5352.70 | 49.7 AV | 54.0 | -4.3 | 1.47 V | 348 | 45.3 | 4.4 |
| 7 | #10580.00 | 50.8 PK | 74.0 | -23.2 | 1.52 V | 272 | 36.9 | 13.9 |
| 8 | #10580.00 | 38.4 AV | 54.0 | -15.6 | 1.52 V | 272 | 24.5 | 13.9 |
| 9 | 15870.00 | 43.4 PK | 74.0 | -30.6 | 1.26 V | 206 | 30.0 | 13.4 |
| 10 | 15870.00 | 31.6 AV | 54.0 | -22.4 | 1.26 V | 206 | 18.2 | 13.4 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 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 | #5467.70 | 69.2 PK | 74.0 | -4.8 | 1.50 H | 61 | 64.7 | 4.5 |
| 2 | #5467.70 | 53.8 AV | 54.0 | -0.2 | 1.50 H | 61 | 49.3 | 4.5 |
| 3 | *5530.00 | 105.8 PK | | | 1.50 H | 61 | 101.3 | 4.5 |
| 4 | *5530.00 | 95.7 AV | | | 1.50 H | 61 | 91.2 | 4.5 |
| 5 | #5725.00 | 53.2 PK | 74.0 | -20.8 | 1.50 H | 61 | 48.3 | 4.9 |
| 6 | #5725.00 | 45.2 AV | 54.0 | -8.8 | 1.50 H | 61 | 40.3 | 4.9 |
| 7 | 11060.00 | 53.4 PK | 74.0 | -20.6 | 2.20 H | 334 | 38.9 | 14.5 |
| 8 | 11060.00 | 42.5 AV | 54.0 | -11.5 | 2.20 H | 334 | 28.0 | 14.5 |
| 9 | #16590.00 | 51.2 PK | 74.0 | -22.8 | 1.72 H | 64 | 34.6 | 16.6 |
| 10 | #16590.00 | 38.9 AV | 54.0 | -15.1 | 1.72 H | 64 | 22.3 | 16.6 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | #5467.70 | 68.0 PK | 74.0 | -6.0 | 1.49 V | 360 | 63.5 | 4.5 |
| 2 | #5467.70 | 52.6 AV | 54.0 | -1.4 | 1.49 V | 360 | 48.1 | 4.5 |
| 3 | *5530.00 | 104.6 PK | | | 1.49 V | 360 | 100.1 | 4.5 |
| 4 | *5530.00 | 94.5 AV | | | 1.49 V | 360 | 90.0 | 4.5 |
| 5 | #5725.00 | 52.0 PK | 74.0 | -22.0 | 1.49 V | 360 | 47.1 | 4.9 |
| 6 | #5725.00 | 44.0 AV | 54.0 | -10.0 | 1.49 V | 360 | 39.1 | 4.9 |
| 7 | 11060.00 | 50.2 PK | 74.0 | -23.8 | 1.56 V | 280 | 35.7 | 14.5 |
| 8 | 11060.00 | 37.9 AV | 54.0 | -16.1 | 1.56 V | 280 | 23.4 | 14.5 |
| 9 | #16590.00 | 43.0 PK | 74.0 | -31.0 | 1.30 V | 226 | 26.4 | 16.6 |
| 10 | #16590.00 | 31.3 AV | 54.0 | -22.7 | 1.30 V | 226 | 14.7 | 16.6 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 122 | 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 | #5466.00 | 57.8 PK | 74.0 | -16.2 | 1.50 H | 54 | 53.3 | 4.5 |
| 2 | #5466.00 | 48.8 AV | 54.0 | -5.2 | 1.50 H | 54 | 44.3 | 4.5 |
| 3 | *5610.00 | 105.2 PK | | | 1.50 H | 54 | 100.5 | 4.7 |
| 4 | *5610.00 | 96.4 AV | | | 1.50 H | 54 | 91.7 | 4.7 |
| 5 | #5725.00 | 64.6 PK | 74.0 | -9.4 | 1.50 H | 54 | 59.7 | 4.9 |
| 6 | #5725.00 | 51.5 AV | 54.0 | -2.5 | 1.50 H | 54 | 46.6 | 4.9 |
| 7 | 11220.00 | 53.2 PK | 74.0 | -20.8 | 2.14 H | 323 | 38.8 | 14.4 |
| 8 | 11220.00 | 42.4 AV | 54.0 | -11.6 | 2.14 H | 323 | 28.0 | 14.4 |
| 9 | #16830.00 | 52.3 PK | 74.0 | -21.7 | 1.62 H | 67 | 35.3 | 17.0 |
| 10 | #16830.00 | 39.7 AV | 54.0 | -14.3 | 1.62 H | 67 | 22.7 | 17.0 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | #5466.00 | 56.6 PK | 74.0 | -17.4 | 1.52 V | 360 | 52.1 | 4.5 |
| 2 | #5466.00 | 47.6 AV | 54.0 | -6.4 | 1.52 V | 360 | 43.1 | 4.5 |
| 3 | *5610.00 | 103.9 PK | | | 1.52 V | 360 | 99.2 | 4.7 |
| 4 | *5610.00 | 95.1 AV | | | 1.52 V | 360 | 90.4 | 4.7 |
| 5 | #5725.00 | 63.4 PK | 74.0 | -10.6 | 1.52 V | 360 | 58.5 | 4.9 |
| 6 | #5725.00 | 50.3 AV | 54.0 | -3.7 | 1.52 V | 360 | 45.4 | 4.9 |
| 7 | 11220.00 | 50.7 PK | 74.0 | -23.3 | 1.61 V | 273 | 36.3 | 14.4 |
| 8 | 11220.00 | 38.2 AV | 54.0 | -15.8 | 1.61 V | 273 | 23.8 | 14.4 |
| 9 | #16830.00 | 42.7 PK | 74.0 | -31.3 | 1.33 V | 218 | 25.7 | 17.0 |
| 10 | #16830.00 | 31.1 AV | 54.0 | -22.9 | 1.33 V | 218 | 14.1 | 17.0 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – 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 138 | 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 | 54.7 PK | 74.0 | -19.3 | 1.50 H | 54 | 50.2 | 4.5 |
| 2 | #5470.00 | 45.0 AV | 54.0 | -9.0 | 1.50 H | 54 | 40.5 | 4.5 |
| 3 | *5690.00 | 105.8 PK | | | 1.50 H | 54 | 101.0 | 4.8 |
| 4 | *5690.00 | 96.5 AV | | | 1.50 H | 54 | 91.7 | 4.8 |
| 5 | #5850.80 | 62.1 PK | 74.0 | -11.9 | 1.50 H | 54 | 57.0 | 5.1 |
| 6 | #5850.80 | 51.4 AV | 54.0 | -2.6 | 1.50 H | 54 | 46.3 | 5.1 |
| 7 | 11380.00 | 53.1 PK | 74.0 | -20.9 | 2.15 H | 310 | 38.7 | 14.4 |
| 8 | 11380.00 | 42.3 AV | 54.0 | -11.7 | 2.15 H | 310 | 27.9 | 14.4 |
| 9 | #17070.00 | 51.6 PK | 74.0 | -22.4 | 1.62 H | 80 | 33.3 | 18.3 |
| 10 | #17070.00 | 39.5 AV | 54.0 | -14.5 | 1.62 H | 80 | 21.2 | 18.3 |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | #5470.00 | 53.4 PK | 74.0 | -20.6 | 1.53 V | 360 | 48.9 | 4.5 |
| 2 | #5470.00 | 43.7 AV | 54.0 | -10.3 | 1.53 V | 360 | 39.2 | 4.5 |
| 3 | *5690.00 | 104.5 PK | | | 1.53 V | 360 | 99.7 | 4.8 |
| 4 | *5690.00 | 95.2 AV | | | 1.53 V | 360 | 90.4 | 4.8 |
| 5 | #5850.80 | 60.8 PK | 74.0 | -13.2 | 1.53 V | 360 | 55.7 | 5.1 |
| 6 | #5850.80 | 50.1 AV | 54.0 | -3.9 | 1.53 V | 360 | 45.0 | 5.1 |
| 7 | 11380.00 | 50.2 PK | 74.0 | -23.8 | 1.55 V | 262 | 35.8 | 14.4 |
| 8 | 11380.00 | 38.2 AV | 54.0 | -15.8 | 1.55 V | 262 | 23.8 | 14.4 |
| 9 | #17070.00 | 43.5 PK | 74.0 | -30.5 | 1.31 V | 224 | 25.2 | 18.3 |
| 10 | #17070.00 | 31.5 AV | 54.0 | -22.5 | 1.31 V | 224 | 13.2 | 18.3 |

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.

Below 1GHz Data:

802.11ac (VHT80)

| | | | |
|------------------------|----------------|--------------------------|-----------------|
| CHANNEL | TX Channel 122 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 30MHz ~ 1GHz | | |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 64.50 | 33.3 QP | 40.0 | -6.7 | 3.00 H | 98 | 42.1 | -8.8 |
| 2 | 107.45 | 28.2 QP | 43.5 | -15.3 | 3.00 H | 264 | 39.5 | -11.3 |
| 3 | 217.91 | 31.4 QP | 46.0 | -14.6 | 1.00 H | 142 | 42.8 | -11.4 |
| 4 | 465.70 | 30.6 QP | 46.0 | -15.4 | 1.50 H | 69 | 34.0 | -3.4 |
| 5 | 548.30 | 29.6 QP | 46.0 | -16.4 | 1.50 H | 187 | 31.6 | -2.0 |
| 6 | 687.10 | 31.4 QP | 46.0 | -14.6 | 1.50 H | 67 | 30.7 | 0.7 |

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 | 45.61 | 34.3 QP | 40.0 | -5.7 | 1.00 V | 10 | 42.4 | -8.1 |
| 2 | 65.65 | 31.6 QP | 40.0 | -8.4 | 1.00 V | 70 | 40.8 | -9.2 |
| 3 | 90.52 | 35.1 QP | 43.5 | -8.4 | 1.50 V | 267 | 49.2 | -14.1 |
| 4 | 469.60 | 31.1 QP | 46.0 | -14.9 | 1.50 V | 24 | 34.4 | -3.3 |
| 5 | 663.51 | 32.6 QP | 46.0 | -13.4 | 2.00 V | 190 | 32.2 | 0.4 |
| 6 | 923.05 | 33.4 QP | 46.0 | -12.6 | 1.00 V | 121 | 29.0 | 4.4 |

REMARKS:

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

4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

| Frequency (MHz) | Conducted Limit (dBuV) | |
|-----------------|------------------------|---------|
| | Quasi-peak | Average |
| 0.15 - 0.5 | 66 - 56 | 56 - 46 |
| 0.50 - 5.0 | 56 | 46 |
| 5.0 - 30.0 | 60 | 50 |

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2.2 Test Instruments

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|---|-------------------------|------------|-----------------|------------------|
| Test Receiver R&S | ESCS 30 | 100287 | Apr. 19, 2017 | Apr. 18, 2018 |
| Line-Impedance Stabilization Network (for EUT) SCHWARZBECK | ESH3-Z5 | 848773/004 | Oct. 26, 2016 | Oct. 25, 2017 |
| Line-Impedance Stabilization Network (for Peripheral) R&S | ENV216 | 100071 | Nov. 09, 2016 | Nov. 08, 2017 |
| RF Cable | 5D-FB | COACAB-001 | May 23, 2017 | May 22, 2018 |
| 10 dB PAD Mini-Circuits | HAT-10+ | CONATT-005 | June 19, 2017 | June 18, 2018 |
| 50 ohms Terminator | 50 | 3 | Oct. 26, 2016 | Oct. 25, 2017 |
| 50 ohms Terminator | N/A | EMC-04 | Nov. 02, 2016 | Nov. 01, 2017 |
| Software BVADT | BVADT_Cond_ V7.3.7.4 | NA | NA | NA |

Note:

1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Shielded Room No. D.
3. The VCCI Con D Registration No. is C-20005.
4. Tested Date: Sep. 04, 2017.

4.2.3 Test Procedure

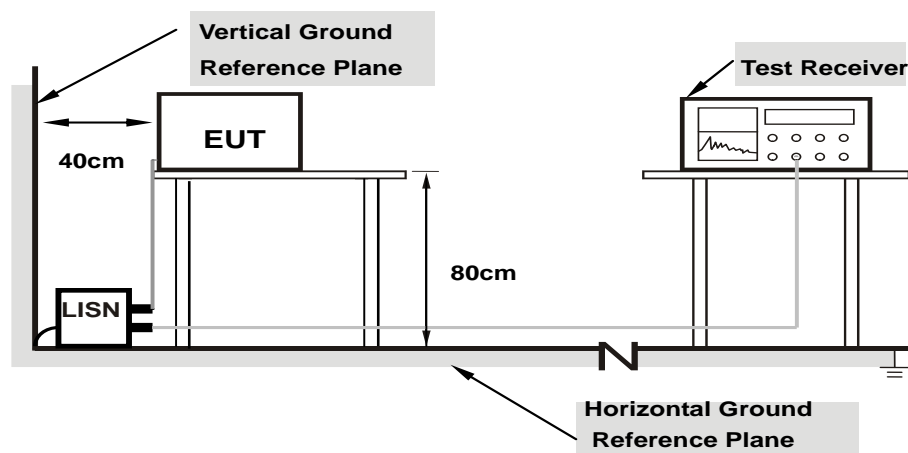
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

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

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



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

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

4.2.6 EUT Operating Condition

Same as 4.1.6.

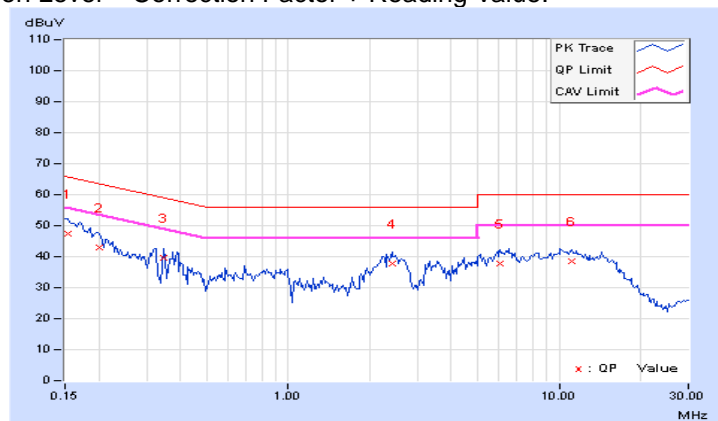
4.2.7 Test Results (Mode 1)

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

| No | Freq. [MHz] | Corr. Factor | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|----|----------------|-----------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|--------|
| | | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| | 1 | 0.15391 | 10.14 | 37.27 | 24.67 | 47.41 | 34.81 | 65.79 | 55.79 | -18.38 |
| 2 | 0.20078 | 10.11 | 33.03 | 21.23 | 43.14 | 31.34 | 63.58 | 53.58 | -20.44 | -22.24 |
| 3 | 0.34531 | 10.16 | 29.50 | 25.00 | 39.66 | 35.16 | 59.07 | 49.07 | -19.41 | -13.91 |
| 4 | 2.41016 | 10.31 | 27.47 | 19.63 | 37.78 | 29.94 | 56.00 | 46.00 | -18.22 | -16.06 |
| 5 | 6.05469 | 10.47 | 27.16 | 21.54 | 37.63 | 32.01 | 60.00 | 50.00 | -22.37 | -17.99 |
| 6 | 11.15234 | 10.62 | 27.98 | 23.16 | 38.60 | 33.78 | 60.00 | 50.00 | -21.40 | -16.22 |

REMARKS:

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

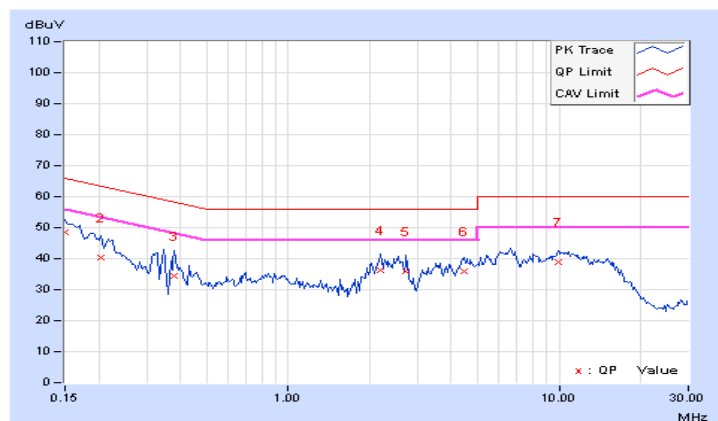


| | | | |
|-------|-------------|-------------------|--------------------------------|
| Phase | Neutral (N) | Detector Function | Quasi-Peak (QP) / Average (AV) |
|-------|-------------|-------------------|--------------------------------|

| No | Freq. [MHz] | Corr. Factor | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|----|----------------|-----------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|--------|
| | | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| | 1 | 0.15000 | 10.21 | 38.31 | 23.76 | 48.52 | 33.97 | 66.00 | 56.00 | -17.48 |
| 2 | 0.20469 | 10.18 | 30.33 | 18.16 | 40.51 | 28.34 | 63.42 | 53.42 | -22.91 | -25.08 |
| 3 | 0.38047 | 10.27 | 23.99 | 14.95 | 34.26 | 25.22 | 58.27 | 48.27 | -24.01 | -23.05 |
| 4 | 2.19531 | 10.43 | 25.73 | 19.71 | 36.16 | 30.14 | 56.00 | 46.00 | -19.84 | -15.86 |
| 5 | 2.73047 | 10.45 | 25.52 | 17.35 | 35.97 | 27.80 | 56.00 | 46.00 | -20.03 | -18.20 |
| 6 | 4.44531 | 10.50 | 25.43 | 19.87 | 35.93 | 30.37 | 56.00 | 46.00 | -20.07 | -15.63 |
| 7 | 9.92969 | 10.61 | 28.23 | 23.03 | 38.84 | 33.64 | 60.00 | 50.00 | -21.16 | -16.36 |

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.



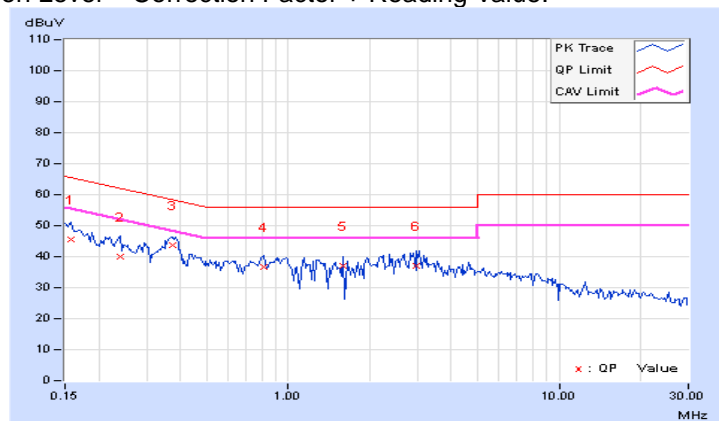
4.2.8 Test Results (Mode 3)

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

| No | Freq. [MHz] | Corr. Factor | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|----|----------------|-----------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|--------|
| | | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| | 1 | 0.15781 | 10.14 | 35.39 | 26.23 | 45.53 | 36.37 | 65.58 | 55.58 | -20.05 |
| 2 | 0.23984 | 10.12 | 29.71 | 19.07 | 39.83 | 29.19 | 62.10 | 52.10 | -22.27 | -22.91 |
| 3 | 0.37266 | 10.17 | 33.43 | 24.47 | 43.60 | 34.64 | 58.44 | 48.44 | -14.84 | -13.80 |
| 4 | 0.81797 | 10.26 | 26.55 | 15.19 | 36.81 | 25.45 | 56.00 | 46.00 | -19.19 | -20.55 |
| 5 | 1.60156 | 10.28 | 26.68 | 17.13 | 36.96 | 27.41 | 56.00 | 46.00 | -19.04 | -18.59 |
| 6 | 2.96484 | 10.35 | 26.87 | 18.99 | 37.22 | 29.34 | 56.00 | 46.00 | -18.78 | -16.66 |

REMARKS:

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

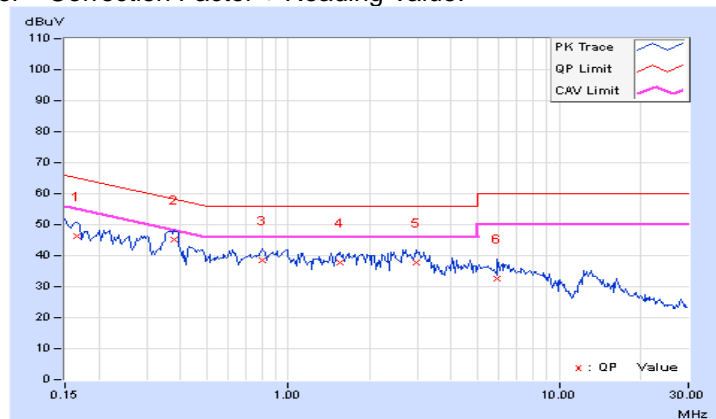


| | | | |
|-------|-------------|-------------------|--------------------------------|
| Phase | Neutral (N) | Detector Function | Quasi-Peak (QP) / Average (AV) |
|-------|-------------|-------------------|--------------------------------|

| No | Freq. [MHz] | Corr. Factor | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|----------|----------------|-----------------|----------------------------|--------------|-----------------------------|--------------|--------------------|--------------|----------------|---------------|
| | | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| | 1 | 0.16562 | 10.20 | 36.21 | 27.84 | 46.41 | 38.04 | 65.18 | 55.18 | -18.77 |
| 2 | 0.38047 | 10.27 | 35.09 | 25.53 | 45.36 | 35.80 | 58.27 | 48.27 | -12.91 | -12.47 |
| 3 | 0.80234 | 10.32 | 28.23 | 16.18 | 38.55 | 26.50 | 56.00 | 46.00 | -17.45 | -19.50 |
| 4 | 1.55078 | 10.38 | 27.52 | 17.83 | 37.90 | 28.21 | 56.00 | 46.00 | -18.10 | -17.79 |
| 5 | 2.95313 | 10.45 | 27.51 | 19.71 | 37.96 | 30.16 | 56.00 | 46.00 | -18.04 | -15.84 |
| 6 | 5.91016 | 10.53 | 21.99 | 15.31 | 32.52 | 25.84 | 60.00 | 50.00 | -27.48 | -24.16 |

REMARKS:

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



4.3 Transmit Power Measurement

4.3.1 Limits of Transmit Power Measurement

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

*B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

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

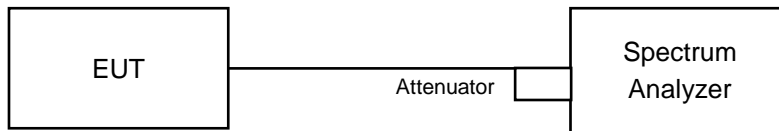
Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

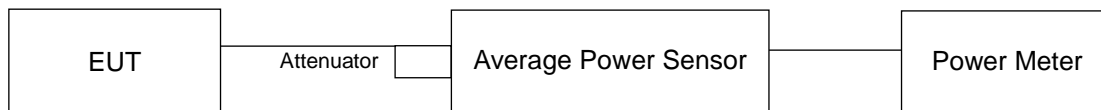
4.3.2 Test Setup

FOR POWER OUTPUT MEASUREMENT

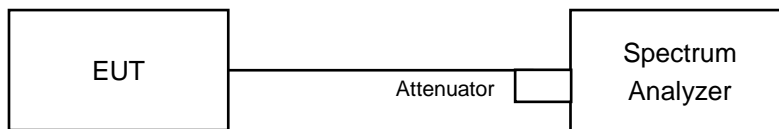
For channel straddling 5725MHz:



For other channels:



FOR 26dB OCCUPIED BANDWIDTH



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

For Average Power Measurement

For channel straddling 5725MHz:

Method SA-2

1. Set span to encompass the emission bandwidth (EBW) of the signal.
2. Set RBW = 1MHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Number of points in sweep ≥ 2 Span / RBW.
5. Sweep time = auto.
6. Detector = RMS.
7. Trace average at least 100 traces in power averaging mode
8. Compute power by integrating the spectrum across the 26 dB EBW of the signal.
9. Duty factor need added to measured value (duty cycle < 98 percent).

For other channels:

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%.

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Condition

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

4.3.7 Test Result

CDD Mode

802.11a

Power Output:

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---------------------------|-------------------|-------------------------------|---------|---------|---------|------------------|-------------------|-------------|-------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 52 | 5260 | 11.59 | 14.01 | 13.85 | 12.54 | 81.811 | 19.13 | 24.00 | Pass |
| 60 | 5300 | 11.79 | 13.95 | 13.96 | 12.54 | 82.768 | 19.18 | 24.00 | Pass |
| 64 | 5320 | 11.69 | 13.99 | 13.96 | 12.49 | 82.449 | 19.16 | 24.00 | Pass |
| 100 | 5500 | 11.58 | 13.46 | 13.61 | 11.96 | 75.235 | 18.76 | 22.49 | Pass |
| 116 | 5580 | 11.66 | 13.43 | 13.71 | 11.95 | 75.848 | 18.80 | 22.49 | Pass |
| 140 | 5700 | 12.73 | 13.24 | 13.91 | 10.62 | 75.975 | 18.81 | 22.49 | Pass |
| *144 (UNII-2C Band) | 5720 | 9.29 | 10.96 | 10.73 | 7.84 | 40.266 | 16.05 | 21.48 | Pass |
| *144 (UNII-3 Band) | 5720 | 3.15 | 4.95 | 4.57 | 1.78 | 9.904 | 9.96 | 28.61 | Pass |

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

1. UNII-2C: The Max. gain is 7.51dBi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to "Determined Conducted Limit-(7.51-6)".
2. UNII-3: The Max. gain is 7.39dBi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to 30-(7.39-6) = 28.61dBm.

The Total Power for the straddle channel:

| Chan. | Chan. Freq. (MHz) | Average Power (mW) | Average Power (dBm) |
|-------|-------------------|--------------------|---------------------|
| 144 | 5720 | 50.17 | 17 |

Note: The total power was calculated through formula and record the value for reference only.

26dB BANDWIDTH:

| Channel | Frequency (MHz) | 26dBc Bandwidth (MHz) | | | |
|--------------------|-----------------|-----------------------|---------|---------|---------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 |
| 52 | 5260 | 21.81 | 21.61 | 21.70 | 21.73 |
| 60 | 5300 | 21.69 | 21.79 | 21.75 | 21.66 |
| 64 | 5320 | 21.81 | 21.76 | 21.79 | 21.81 |
| 100 | 5500 | 21.65 | 21.63 | 21.69 | 21.69 |
| 116 | 5580 | 21.74 | 21.64 | 21.77 | 21.45 |
| 140 | 5700 | 21.87 | 21.70 | 21.70 | 21.79 |
| 144 (UNII-2C Band) | 5720 | 15.90 | 15.93 | 15.92 | 15.84 |

Note: For U_NII-2A, U_NII-2C Band output power limitation is determined based on 26dBc bandwidth

| Power Limit = 11dBm + 10logB < U_NII-2A, U_NII-2C > | | | |
|---|------------|-------------|----------------------------------|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Limit (dBm) |
| 52 | 5260 | 21.61 | 24.34 > 24 |
| 60 | 5300 | 21.66 | 24.35 > 24 |
| 64 | 5320 | 21.76 | 24.37 > 24 |
| 100 | 5500 | 21.63 | 24.35 > 24 |
| 116 | 5580 | 21.45 | 24.31 > 24 |
| 140 | 5700 | 21.70 | 24.36 > 24 |
| 144 (UNII-2C Band) | 5720 | 15.84 | 22.99 < 24 |

802.11ac (VHT20)

POWER OUTPUT:

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---------------------|-------------------|-------------------------------|---------|---------|---------|------------------|-------------------|-------------|-------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 52 | 5260 | 11.72 | 13.87 | 14.01 | 12.71 | 83.078 | 19.19 | 24.00 | Pass |
| 60 | 5300 | 11.51 | 13.81 | 13.76 | 12.42 | 79.428 | 19.00 | 24.00 | Pass |
| 64 | 5320 | 11.58 | 13.82 | 13.89 | 12.70 | 81.599 | 19.12 | 24.00 | Pass |
| 100 | 5500 | 11.69 | 13.62 | 13.70 | 11.93 | 76.809 | 18.85 | 22.49 | Pass |
| 116 | 5580 | 11.62 | 13.35 | 13.81 | 11.92 | 75.752 | 18.79 | 22.49 | Pass |
| 140 | 5700 | 12.78 | 13.28 | 13.96 | 10.34 | 75.951 | 18.81 | 22.49 | Pass |
| *144 (UNII-2C Band) | 5720 | 8.79 | 11.07 | 10.75 | 7.64 | 38.933 | 15.90 | 21.49 | Pass |
| *144 (UNII-3 Band) | 5720 | 3.18 | 5.01 | 5.05 | 2.14 | 10.319 | 10.14 | 28.61 | Pass |

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

1. UNII-2C: The Max. gain is 7.51dBi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to "Determined Conducted Limit-(7.51-6)".
2. UNII-3: The Max. gain is 7.39dBi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to 30-(7.39-6) = 28.61dBm.

The Total Power for the straddle channel:

| Chan. | Chan. Freq. (MHz) | Average Power (mW) | Average Power (dBm) |
|-------|-------------------|--------------------|---------------------|
| 144 | 5720 | 49.252 | 16.92 |

Note: The total power was calculated through formula and record the value for reference only.

26dB BANDWIDTH:

| Channel | Frequency (MHz) | 26dBc Bandwidth (MHz) | | | |
|--------------------|-----------------|-----------------------|---------|---------|---------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 |
| 52 | 5260 | 21.65 | 21.99 | 21.88 | 21.71 |
| 60 | 5300 | 21.79 | 21.79 | 21.94 | 21.90 |
| 64 | 5320 | 21.96 | 22.01 | 21.82 | 21.86 |
| 100 | 5500 | 22.14 | 21.76 | 21.84 | 21.93 |
| 116 | 5580 | 21.92 | 21.96 | 21.86 | 21.90 |
| 140 | 5700 | 21.90 | 21.70 | 21.84 | 21.77 |
| 144 (UNII-2C Band) | 5720 | 15.98 | 15.86 | 15.91 | 15.91 |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

| Power Limit = 11dBm + 10logB < U_NII-2A, U_NII-2C > | | | |
|---|------------|-------------|----------------------------------|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Limit (dBm) |
| 52 | 5260 | 21.65 | 24.35 > 24 |
| 60 | 5300 | 21.79 | 24.38 > 24 |
| 64 | 5320 | 21.82 | 24.38 > 24 |
| 100 | 5500 | 21.76 | 24.37 > 24 |
| 116 | 5580 | 21.86 | 24.39 > 24 |
| 140 | 5700 | 21.70 | 24.36 > 24 |
| 144 (UNII-2C Band) | 5720 | 15.86 | 23 < 24 |

802.11ac (VHT40)

POWER OUTPUT:

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---------------------|-------------------|-------------------------------|---------|---------|---------|------------------|-------------------|-------------|-------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 54 | 5270 | 15.17 | 16.51 | 16.93 | 15.23 | 160.316 | 22.05 | 24.00 | Pass |
| 62 | 5310 | 15.41 | 16.55 | 16.93 | 15.54 | 165.067 | 22.18 | 24.00 | Pass |
| 102 | 5510 | 14.72 | 17.01 | 16.84 | 14.65 | 157.362 | 21.97 | 22.49 | Pass |
| 110 | 5550 | 14.86 | 17.13 | 16.68 | 14.35 | 156.048 | 21.93 | 22.49 | Pass |
| 134 | 5670 | 14.98 | 16.44 | 16.94 | 13.82 | 149.062 | 21.73 | 22.49 | Pass |
| *142 (UNII-2C Band) | 5710 | 12.55 | 14.15 | 14.22 | 11.54 | 88.503 | 19.47 | 22.49 | Pass |
| *142 (UNII-3 Band) | 5710 | 2.39 | 4.00 | 3.91 | 1.38 | 8.446 | 9.27 | 28.61 | Pass |

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

- UNII-2C: The Max. gain is 7.51dBi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to "Determined Conducted Limit-(7.51-6)".
- UNII-3: The Max. gain is 7.39dBi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to $30-(7.39-6) = 28.61$ dBm.

The Total Power for the straddle channel:

| Chan. | Chan. Freq. (MHz) | Average Power (mW) | Average Power (dBm) |
|-------|-------------------|--------------------|---------------------|
| 142 | 5710 | 96.949 | 19.87 |

Note: The total power was calculated through formula and record the value for reference only.

26dB BANDWIDTH:

| Channel | Frequency (MHz) | 26dBc Bandwidth (MHz) | | | |
|--------------------|-----------------|-----------------------|---------|---------|---------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 |
| 54 | 5270 | 56.70 | 41.59 | 41.59 | 41.37 |
| 62 | 5310 | 60.50 | 41.52 | 41.67 | 41.63 |
| 102 | 5510 | 66.68 | 54.96 | 52.08 | 41.26 |
| 110 | 5550 | 66.63 | 55.37 | 52.06 | 41.19 |
| 134 | 5670 | 63.75 | 60.77 | 50.38 | 41.48 |
| 142 (UNII-2C Band) | 5710 | 46.70 | 38.82 | 35.97 | 35.83 |

Note: For U_NII-2A, U_NII-2C Band output power limitation is determined based on 26dBc bandwidth

| Power Limit = 11dBm + 10logB < U_NII-2A, U_NII-2C > | | | |
|---|------------|-------------|----------------------------------|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Limit (dBm) |
| 54 | 5270 | 41.37 | 27.16 > 24 |
| 62 | 5310 | 41.52 | 27.18 > 24 |
| 102 | 5510 | 41.26 | 27.15 > 24 |
| 110 | 5550 | 41.19 | 27.14 > 24 |
| 134 | 5670 | 41.48 | 27.17 > 24 |
| 142 (UNII-2C Band) | 5710 | 35.83 | 26.54 > 24 |

802.11ac (VHT80)

POWER OUTPUT:

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---------------------|-------------------|-------------------------------|---------|---------|---------|------------------|-------------------|-------------|-------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 58 | 5290 | 14.57 | 17.06 | 16.10 | 14.20 | 146.499 | 21.66 | 24.00 | Pass |
| 106 | 5530 | 14.55 | 16.63 | 16.66 | 14.30 | 147.796 | 21.70 | 22.49 | Pass |
| 122 | 5610 | 15.55 | 17.20 | 17.40 | 15.07 | 175.464 | 22.44 | 22.49 | Pass |
| *138 (UNII-2C Band) | 5690 | 12.46 | 14.34 | 14.15 | 11.76 | 93.558 | 19.71 | 22.49 | Pass |
| *138 (UNII-3 Band) | 5690 | -0.79 | 1.02 | 0.54 | -1.51 | 4.2939 | 6.33 | 28.61 | Pass |

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

1. UNII-2C: The Max. gain is 7.51dBi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to "Determined Conducted Limit-(7.51-6)".

2. UNII-3: The Max. gain is 7.39dBi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to 30-(7.39-6) = 28.61dBm.

The Total Power for the straddle channel:

| Chan. | Chan. Freq. (MHz) | Average Power (mW) | Average Power (dBm) |
|-------|-------------------|--------------------|---------------------|
| 138 | 5690 | 97.8519 | 19.91 |

Note: The total power was calculated through formula and record the value for reference only.

26dB BANDWIDTH:

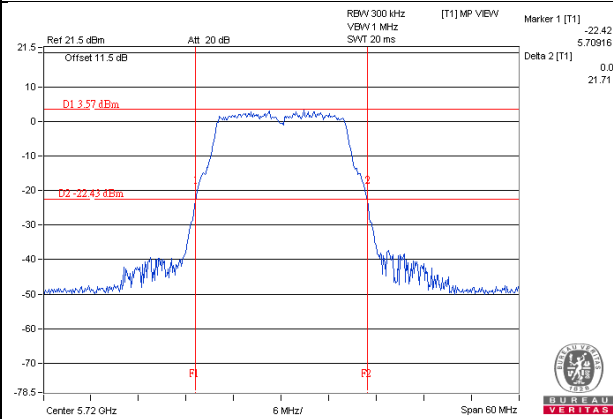
| Channel | Frequency (MHz) | 26dBc Bandwidth (MHz) | | | |
|--------------------|-----------------|-----------------------|---------|---------|---------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 |
| 58 | 5290 | 82.63 | 82.93 | 82.64 | 82.44 |
| 106 | 5530 | 83.80 | 82.69 | 82.70 | 82.40 |
| 122 | 5610 | 85.77 | 82.64 | 83.19 | 82.48 |
| 138 (UNII-2C Band) | 5690 | 77.65 | 76.27 | 76.44 | 76.42 |

Note: For U_NII-2A, U_NII-2C Band output power limitation is determined based on 26dBc bandwidth

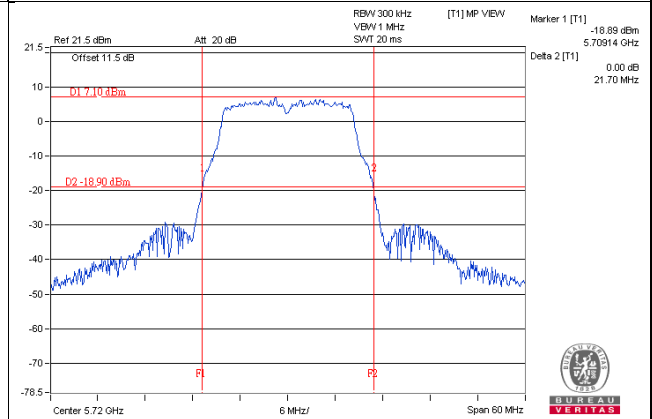
| Power Limit = 11dBm + 10logB < U_NII-2A, U_NII-2C > | | | |
|---|------------|-------------|----------------------------------|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Limit (dBm) |
| 58 | 5290 | 82.44 | 30.16 > 24 |
| 106 | 5530 | 82.40 | 30.15 > 24 |
| 122 | 5610 | 82.48 | 30.16 > 24 |
| 138 (UNII-2C Band) | 5690 | 76.27 | 29.82 > 24 |

Spectrum Plot of Worst Value

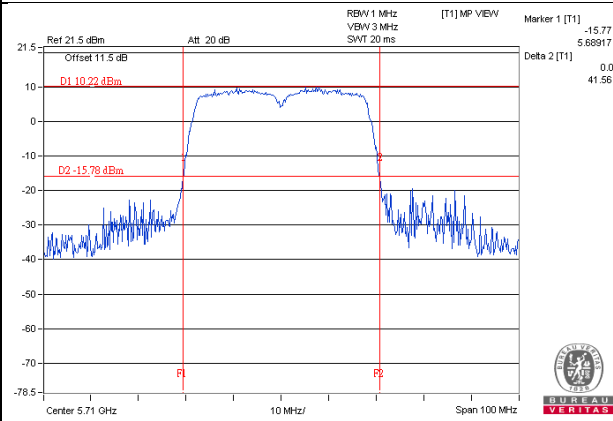
802.11a / Chain 3 - CH144 (UNII-2C Band)



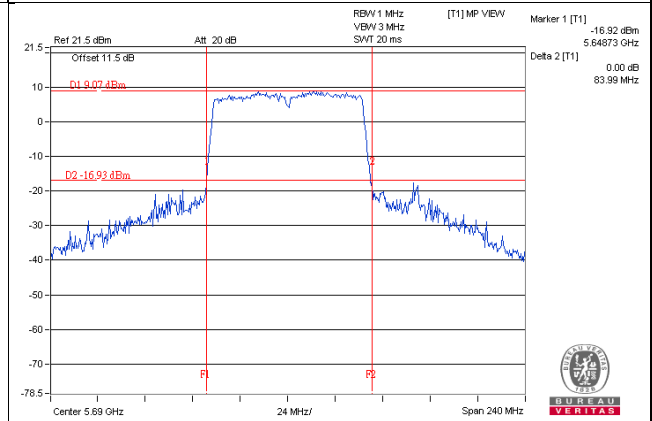
802.11ac (VHT20) / Chain 1 - CH144 (UNII-2C Band)



802.11ac (VHT40) / Chain 3 - CH142 (UNII-2C Band)



802.11ac (VHT80) / Chain 1 - CH138 (UNII-2C Band)



NOTE:

- For CH144 (UNII-2C Band) = 5725MHz - Marker 1
- For CH142 (UNII-2C Band) = 5725MHz - Marker 1
- For CH138 (UNII-2C Band) = 5725MHz - Marker 1

Beamforming Mode

802.11ac (VHT20)

POWER OUTPUT:

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---------------------|-------------------|-------------------------------|---------|---------|---------|------------------|-------------------|-------------|-------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 52 | 5260 | 11.72 | 13.87 | 14.01 | 12.71 | 83.078 | 19.19 | 19.29 | Pass |
| 60 | 5300 | 11.51 | 13.81 | 13.76 | 12.42 | 79.428 | 19.00 | 19.29 | Pass |
| 64 | 5320 | 11.58 | 13.82 | 13.89 | 12.70 | 81.599 | 19.12 | 19.29 | Pass |
| 100 | 5500 | 11.69 | 13.62 | 13.70 | 11.93 | 76.809 | 18.85 | 18.98 | Pass |
| 116 | 5580 | 11.62 | 13.35 | 13.81 | 11.92 | 75.752 | 18.79 | 18.98 | Pass |
| 140 | 5700 | 12.78 | 13.28 | 13.96 | 10.34 | 75.951 | 18.81 | 18.98 | Pass |
| *144 (UNII-2C Band) | 5720 | 8.79 | 11.07 | 10.75 | 7.64 | 38.933 | 15.90 | 17.98 | Pass |
| *144 (UNII-3 Band) | 5720 | 3.18 | 5.01 | 5.05 | 2.14 | 10.319 | 10.14 | 25.45 | Pass |

Note: 1. * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

2. For UNII-2A: Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 10.71\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $24 - (10.71 - 6) = 19.29\text{dBm}$.

3. For UNII-2C: Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 11.02\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $24 - (11.02 - 6) = 18.98\text{dBm}$.

4. For UNII-3: Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 10.55\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (10.55 - 6) = 25.45\text{dBm}$.

The Total Power for the straddle channel:

| Chan. | Chan. Freq. (MHz) | Average Power (mW) | Average Power (dBm) |
|-------|-------------------|--------------------|---------------------|
| 144 | 5720 | 49.252 | 16.92 |

Note: The total power was calculated through formula and record the value for reference only.

26dB BANDWIDTH:

| Channel | Frequency (MHz) | 26dBc Bandwidth (MHz) | | | |
|--------------------|-----------------|-----------------------|---------|---------|---------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 |
| 52 | 5260 | 21.65 | 21.99 | 21.88 | 21.71 |
| 60 | 5300 | 21.79 | 21.79 | 21.94 | 21.90 |
| 64 | 5320 | 21.96 | 22.01 | 21.82 | 21.86 |
| 100 | 5500 | 22.14 | 21.76 | 21.84 | 21.93 |
| 116 | 5580 | 21.92 | 21.96 | 21.86 | 21.90 |
| 140 | 5700 | 21.90 | 21.70 | 21.84 | 21.77 |
| 144 (UNII-2C Band) | 5720 | 15.98 | 15.86 | 15.91 | 15.91 |

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

| Power Limit = 11dBm + 10logB < U_NII-2A, U_NII-2C > | | | |
|---|------------|-------------|----------------------------------|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Limit (dBm) |
| 52 | 5260 | 21.65 | 24.35 > 24 |
| 60 | 5300 | 21.79 | 24.38 > 24 |
| 64 | 5320 | 21.82 | 24.38 > 24 |
| 100 | 5500 | 21.76 | 24.37 > 24 |
| 116 | 5580 | 21.86 | 24.39 > 24 |
| 140 | 5700 | 21.70 | 24.36 > 24 |
| 144 (UNII-2C Band) | 5720 | 15.86 | 23 < 24 |

802.11ac (VHT40)

POWER OUTPUT:

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---------------------|-------------------|-------------------------------|---------|---------|---------|------------------|-------------------|-------------|-------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 54 | 5270 | 12.21 | 13.63 | 14.02 | 12.32 | 81.997 | 19.14 | 19.29 | Pass |
| 62 | 5310 | 12.44 | 13.62 | 13.96 | 12.51 | 83.266 | 19.20 | 19.29 | Pass |
| 102 | 5510 | 11.68 | 13.96 | 13.78 | 11.72 | 78.349 | 18.94 | 18.98 | Pass |
| 110 | 5550 | 11.84 | 14.02 | 13.59 | 11.34 | 76.981 | 18.86 | 18.98 | Pass |
| 134 | 5670 | 12.05 | 13.42 | 13.89 | 11.02 | 75.149 | 18.76 | 18.98 | Pass |
| *142 (UNII-2C Band) | 5710 | 9.79 | 10.91 | 11.08 | 8.49 | 43.634 | 16.40 | 18.98 | Pass |
| *142 (UNII-3 Band) | 5710 | -0.31 | 0.80 | 0.93 | -1.63 | 4.243 | 6.28 | 25.45 | Pass |

Note: 1. * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

2. For UNII-2A: Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4]$ = 10.71dBi > 6dBi , so the power limit shall be reduced to 24-(10.71-6) = 19.29dBm.

3. For UNII-2C: Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4]$ = 11.02dBi > 6dBi , so the power limit shall be reduced to 24-(11.02-6) = 18.98dBm.

4. For UNII-3: Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4]$ = 10.55dBi > 6dBi , so the power limit shall be reduced to 30-(10.55-6) = 25.45dBm.

The Total Power for the straddle channel:

| Chan. | Chan. Freq. (MHz) | Average Power (mW) | Average Power (dBm) |
|-------|-------------------|--------------------|---------------------|
| 142 | 5710 | 47.877 | 16.8 |

Note: The total power was calculated through formula and record the value for reference only.

26dB BANDWIDTH:

| Channel | Frequency (MHz) | 26dBc Bandwidth (MHz) | | | |
|--------------------|-----------------|-----------------------|---------|---------|---------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 |
| 54 | 5270 | 56.70 | 41.59 | 41.59 | 41.37 |
| 62 | 5310 | 60.50 | 41.52 | 41.67 | 41.63 |
| 102 | 5510 | 66.68 | 54.96 | 52.08 | 41.26 |
| 110 | 5550 | 66.63 | 55.37 | 52.06 | 41.19 |
| 134 | 5670 | 63.75 | 60.77 | 50.38 | 41.48 |
| 142 (UNII-2C Band) | 5710 | 46.70 | 38.82 | 35.97 | 35.83 |

Note: For U_NII-2A, U_NII-2C Band output power limitation is determined based on 26dBc bandwidth

| Power Limit = 11dBm + 10logB < U_NII-2A, U_NII-2C > | | | |
|---|------------|-------------|----------------------------------|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Limit (dBm) |
| 54 | 5270 | 41.37 | 27.16 > 24 |
| 62 | 5310 | 41.52 | 27.18 > 24 |
| 102 | 5510 | 41.26 | 27.15 > 24 |
| 110 | 5550 | 41.19 | 27.14 > 24 |
| 134 | 5670 | 41.48 | 27.17 > 24 |
| 142 (UNII-2C Band) | 5710 | 35.83 | 26.54 > 24 |

802.11ac (VHT80)
POWER OUTPUT:

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---------------------|-------------------|-------------------------------|---------|---------|---------|------------------|-------------------|-------------|-------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 58 | 5290 | 12.11 | 14.65 | 13.61 | 11.82 | 83.595 | 19.22 | 19.29 | Pass |
| 106 | 5530 | 11.74 | 13.84 | 13.82 | 11.54 | 77.493 | 18.89 | 18.98 | Pass |
| 122 | 5610 | 11.94 | 13.64 | 13.85 | 11.51 | 77.176 | 18.87 | 18.98 | Pass |
| *138 (UNII-2C Band) | 5690 | 9.43 | 10.62 | 11.22 | 8.77 | 44.805 | 16.51 | 18.98 | Pass |
| *138 (UNII-3 Band) | 5690 | -3.87 | -2.77 | -2.10 | -4.45 | 2.0876 | 3.20 | 25.45 | Pass |

Note: 1. * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

2. For UNII-2A: Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 10.71\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $24 - (10.71 - 6) = 19.29\text{dBm}$.

3. For UNII-2C: Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 11.02\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $24 - (11.02 - 6) = 18.98\text{dBm}$.

4. For UNII-3: Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 10.55\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (10.55 - 6) = 25.45\text{dBm}$.

The Total Power for the straddle channel:

| Chan. | Chan. Freq. (MHz) | Average Power (mW) | Average Power (dBm) |
|-------|-------------------|--------------------|---------------------|
| 138 | 5690 | 46.8926 | 16.71 |

Note: The total power was calculated through formula and record the value for reference only.

26dB BANDWIDTH:

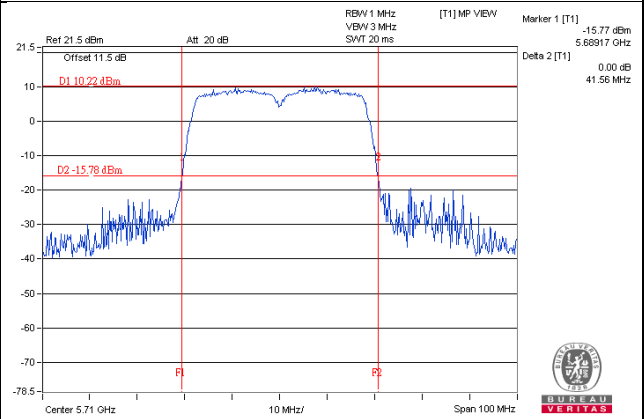
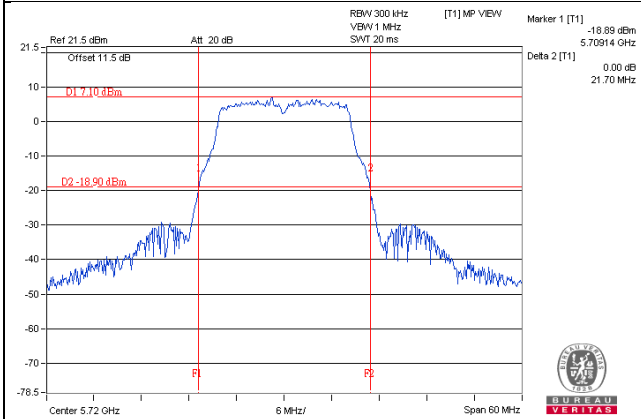
| Channel | Frequency (MHz) | 26dBc Bandwidth (MHz) | | | |
|--------------------|-----------------|-----------------------|---------|---------|---------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 |
| 58 | 5290 | 82.63 | 82.93 | 82.64 | 82.44 |
| 106 | 5530 | 83.80 | 82.69 | 82.70 | 82.40 |
| 122 | 5610 | 85.77 | 82.64 | 83.19 | 82.48 |
| 138 (UNII-2C Band) | 5690 | 77.65 | 76.27 | 76.44 | 76.42 |

Note: For U_NII-2A, U_NII-2C Band output power limitation is determined based on 26dBc bandwidth

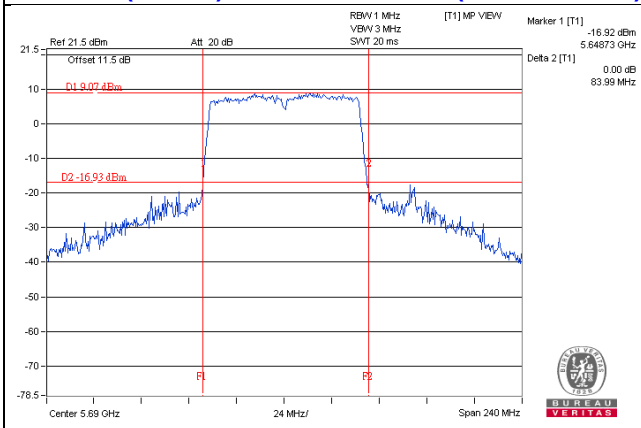
| Power Limit = 11dBm + 10logB < U_NII-2A, U_NII-2C > | | | |
|---|------------|-------------|----------------------------------|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Limit (dBm) |
| 58 | 5290 | 82.44 | 30.16 > 24 |
| 106 | 5530 | 82.40 | 30.15 > 24 |
| 122 | 5610 | 82.48 | 30.16 > 24 |
| 138 (UNII-2C Band) | 5690 | 76.27 | 29.82 > 24 |

Spectrum Plot of Worst Value

802.11ac (VHT20) / Chain 1 - CH144 (UNII-2C Band) 802.11ac (VHT40) / Chain 3 - CH142 (UNII-2C Band)



802.11ac (VHT80) / Chain 1 - CH138 (UNII-2C Band)

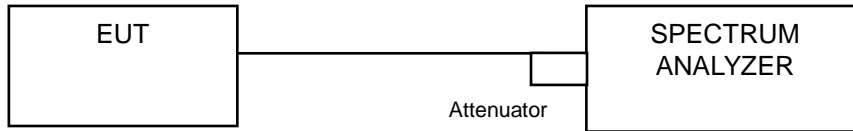


NOTE:

- For CH144 (UNII-2C Band) = 5725MHz - Marker 1
- For CH142 (UNII-2C Band) = 5725MHz - Marker 1
- For CH138 (UNII-2C Band) = 5725MHz - Marker 1

4.4 Occupied Bandwidth Measurement

4.4.1 Test Setup



4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.3 Test Procedure

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

4.4.4 Test Results

802.11a

| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) | | | |
|-----------------------|-------------------------|--------------------------|---------|---------|---------|
| | | CHAIN 0 | CHAIN 1 | CHAIN 2 | CHAIN 3 |
| 52 | 5260 | 17.04 | 16.92 | 17.16 | 16.92 |
| 60 | 5300 | 17.04 | 16.92 | 16.92 | 16.92 |
| 64 | 5320 | 17.04 | 17.04 | 17.04 | 17.04 |
| 100 | 5500 | 17.04 | 16.92 | 16.92 | 16.92 |
| 116 | 5580 | 16.92 | 17.04 | 16.92 | 17.04 |
| 140 | 5700 | 17.16 | 17.04 | 16.92 | 16.92 |
| 144 (UNII-2C Band) | 5720 | 13.52 | 13.52 | 13.52 | 13.52 |
| 144 (UNII-3 Band) | 5720 | 3.40 | 3.40 | 3.28 | 3.40 |

802.11ac (VHT20)

| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) | | | |
|-----------------------|-------------------------|--------------------------|---------|---------|---------|
| | | CHAIN 0 | CHAIN 1 | CHAIN 2 | CHAIN 3 |
| 52 | 5260 | 17.88 | 18.24 | 18.00 | 18.12 |
| 60 | 5300 | 18.00 | 18.00 | 18.12 | 18.12 |
| 64 | 5320 | 18.12 | 18.00 | 18.00 | 18.12 |
| 100 | 5500 | 18.00 | 18.00 | 18.00 | 18.12 |
| 116 | 5580 | 18.00 | 18.00 | 18.00 | 18.12 |
| 140 | 5700 | 18.12 | 17.76 | 18.00 | 18.12 |
| 144 (UNII-2C Band) | 5720 | 14.12 | 13.64 | 14.00 | 14.12 |
| 144 (UNII-3 Band) | 5720 | 4.00 | 3.40 | 3.88 | 4.00 |

802.11ac (VHT40)

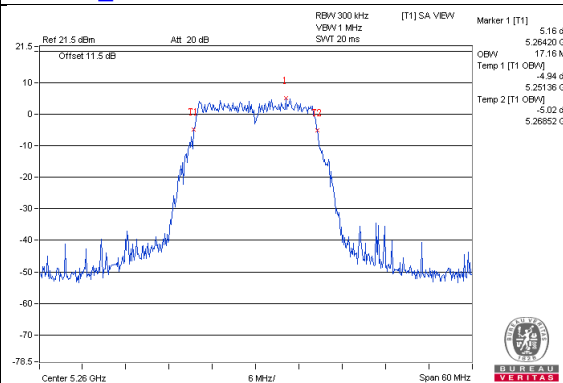
| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) | | | |
|-----------------------|-------------------------|--------------------------|---------|---------|---------|
| | | CHAIN 0 | CHAIN 1 | CHAIN 2 | CHAIN 3 |
| 54 | 5270 | 36.72 | 36.72 | 36.72 | 36.48 |
| 62 | 5310 | 36.72 | 36.72 | 36.72 | 36.72 |
| 102 | 5510 | 36.72 | 36.72 | 36.72 | 36.72 |
| 110 | 5550 | 36.72 | 36.72 | 36.48 | 36.72 |
| 134 | 5670 | 36.72 | 36.48 | 36.72 | 36.72 |
| 142 (UNII-2C Band) | 5710 | 33.40 | 33.40 | 33.40 | 33.60 |
| 142 (UNII-3 Band) | 5710 | 3.20 | 3.20 | 3.40 | 3.20 |

802.11ac (VHT80)

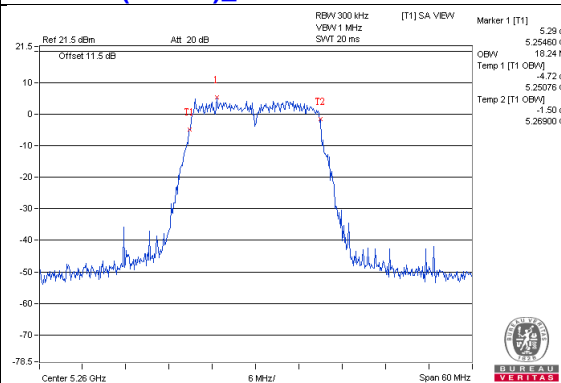
| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) | | | |
|-----------------------|-------------------------|--------------------------|---------|---------|---------|
| | | CHAIN 0 | CHAIN 1 | CHAIN 2 | CHAIN 3 |
| 58 | 5290 | 76.32 | 76.32 | 76.32 | 75.84 |
| 106 | 5530 | 75.84 | 75.84 | 76.32 | 76.32 |
| 122 | 5610 | 76.32 | 75.84 | 76.32 | 76.32 |
| 138 (UNII-2C Band) | 5690 | 73.40 | 72.92 | 73.40 | 72.92 |
| 138 (UNII-3 Band) | 5690 | 2.92 | 2.44 | 2.44 | 2.44 |

Spectrum Plot of Worst Value

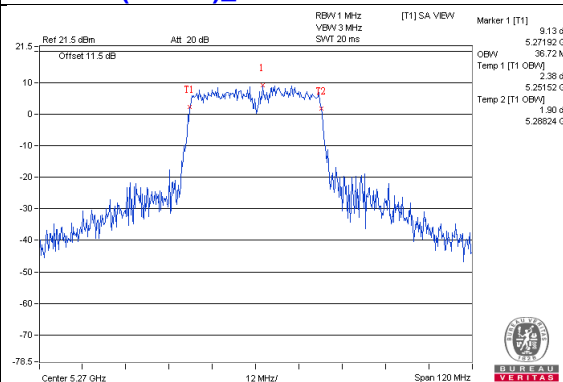
802.11a_Chain2 / CH52



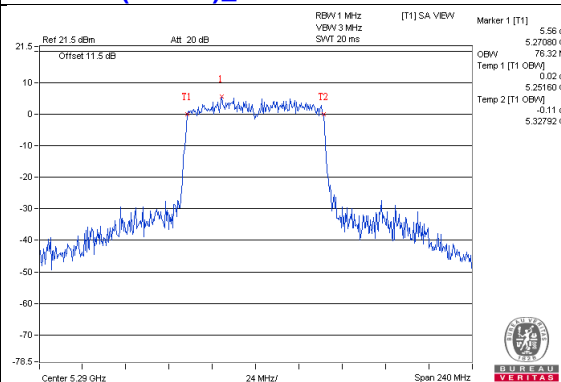
802.11ac (VHT20)_Chain1 / CH52



802.11ac (VHT40)_Chain0 / CH54



802.11ac (VHT80)_Chain0 / CH58

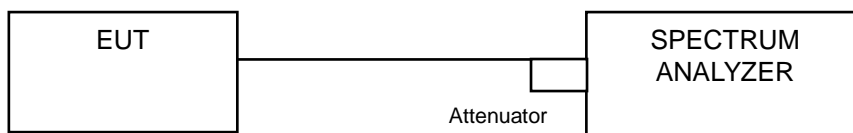


4.5 Peak Power Spectral Density Measurement

4.5.1 Limits of Peak Power Spectral Density Measurement

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

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedure

For U_NII-2A, U_NII-2C band:

Using method SA-2

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 add 10 log (1/duty cycle)

For U_NII-3:

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

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Condition

Same as Item 4.3.6.

4.5.7 Test Results

For UNII-2A, UNII-2C:

802.11a

| Chan. | Chan. Freq. (MHz) | PSD W/O Duty Factor (dBm/MHz) | | | | Duty Factor (dB) | Total PSD With Duty Factor (dBm/MHz) | MAX. Limit (dBm/MHz) | Pass / Fail |
|-----------------------|-------------------|-------------------------------|---------|---------|---------|------------------|--------------------------------------|----------------------|-------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 52 | 5260 | -1.87 | 0.89 | 0.55 | -0.64 | 0.15 | 6.04 | 6.29 | Pass |
| 60 | 5300 | -1.80 | 0.91 | 0.71 | -0.70 | 0.15 | 6.09 | 6.29 | Pass |
| 64 | 5320 | -1.31 | 0.95 | 0.69 | -0.58 | 0.15 | 6.21 | 6.29 | Pass |
| 100 | 5500 | -1.35 | 0.91 | 0.64 | -1.63 | 0.15 | 5.96 | 5.98 | Pass |
| 116 | 5580 | -1.45 | 0.85 | 0.81 | -1.70 | 0.15 | 5.97 | 5.98 | Pass |
| 140 | 5700 | -0.84 | 0.70 | 0.47 | -2.04 | 0.15 | 5.88 | 5.98 | Pass |
| 144 (UNII-2C Band) | 5720 | -0.80 | 0.81 | 0.58 | -2.19 | 0.15 | 5.93 | 5.98 | Pass |

- Note:**
- Method a) 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.
 - For UNII-2A: Directional gain = $10 \log[(10^{G_0/20} + 10^{G_1/20} + 10^{G_2/20} + 10^{G_3/20})^2 / 4] = 10.71\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (10.71 - 6) = 6.29\text{dBm}$.
 - For UNII-2C: Directional gain = $10 \log[(10^{G_0/20} + 10^{G_1/20} + 10^{G_2/20} + 10^{G_3/20})^2 / 4] = 11.02\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (11.02 - 6) = 5.98\text{dBm}$.
 - Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT20)

| Chan. | Chan. Freq. (MHz) | PSD W/O Duty Factor (dBm/MHz) | | | | Duty Factor (dB) | Total PSD With Duty Factor (dBm/MHz) | MAX. Limit (dBm/MHz) | Pass / Fail |
|-----------------------|-------------------|-------------------------------|---------|---------|---------|------------------|--------------------------------------|----------------------|-------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 52 | 5260 | -1.25 | 0.46 | 0.33 | -0.56 | 0.10 | 5.92 | 6.29 | Pass |
| 60 | 5300 | -1.20 | 0.38 | 0.35 | -0.51 | 0.10 | 5.92 | 6.29 | Pass |
| 64 | 5320 | -1.05 | 0.69 | 0.44 | -0.63 | 0.10 | 6.04 | 6.29 | Pass |
| 100 | 5500 | -1.96 | 1.13 | 0.61 | -1.39 | 0.10 | 5.91 | 5.98 | Pass |
| 116 | 5580 | -1.74 | 0.80 | 0.57 | -1.23 | 0.10 | 5.86 | 5.98 | Pass |
| 140 | 5700 | -0.35 | 0.84 | 0.48 | -2.78 | 0.10 | 5.87 | 5.98 | Pass |
| 144 (UNII-2C Band) | 5720 | -0.44 | 0.78 | 0.54 | -2.52 | 0.10 | 5.89 | 5.98 | Pass |

- Note:**
- Method a) 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.
 - For UNII-2A: Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 10.71\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (10.71 - 6) = 6.29\text{dBm}$.
 - For UNII-2C: Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 11.02\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (11.02 - 6) = 5.98\text{dBm}$.
 - Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT40)

| Chan. | Chan. Freq. (MHz) | PSD W/O Duty Factor (dBm/MHz) | | | | Duty Factor (dB) | Total PSD With Duty Factor (dBm/MHz) | MAX. Limit (dBm/MHz) | Pass / Fail |
|-----------------------|-------------------|-------------------------------|---------|---------|---------|------------------|--------------------------------------|----------------------|-------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 54 | 5270 | -1.39 | 0.43 | 0.38 | -0.85 | 0.19 | 5.93 | 6.29 | Pass |
| 62 | 5310 | -1.29 | 0.23 | 0.35 | -0.68 | 0.19 | 5.92 | 6.29 | Pass |
| 102 | 5510 | -1.22 | 0.70 | 0.50 | -1.63 | 0.19 | 5.92 | 5.98 | Pass |
| 110 | 5550 | -1.60 | 0.96 | 0.33 | -1.62 | 0.19 | 5.88 | 5.98 | Pass |
| 134 | 5670 | -1.30 | 0.18 | 0.30 | -2.39 | 0.19 | 5.55 | 5.98 | Pass |
| 142 (UNII-2C Band) | 5710 | -1.20 | 0.40 | 0.16 | -2.16 | 0.19 | 5.63 | 5.98 | Pass |

- Note:**
- Method a) 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.
 - For UNII-2A: Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 10.71\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (10.71 - 6) = 6.29\text{dBm}$.
 - For UNII-2C: Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 11.02\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (11.02 - 6) = 5.98\text{dBm}$.
 - Refer to section 3.3 for duty cycle spectrum plot.

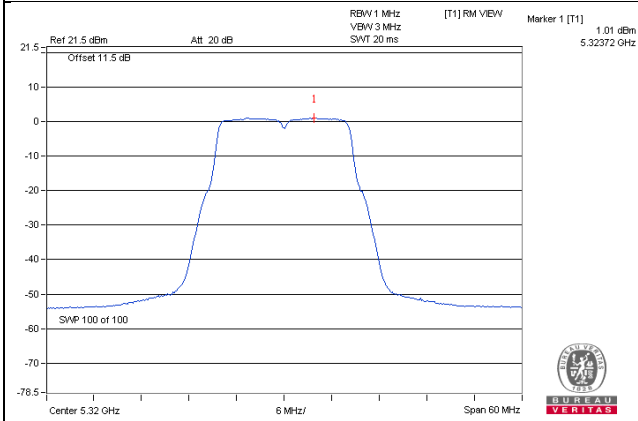
802.11ac (VHT80)

| Chan. | Chan. Freq. (MHz) | PSD W/O Duty Factor (dBm/MHz) | | | | Duty Factor (dB) | Total PSD With Duty Factor (dBm/MHz) | MAX. Limit (dBm/MHz) | Pass / Fail |
|-----------------------|-------------------|-------------------------------|---------|---------|---------|------------------|--------------------------------------|----------------------|-------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 58 | 5290 | -4.58 | -2.39 | -3.60 | -5.49 | 0.38 | 2.54 | 6.29 | Pass |
| 106 | 5530 | -4.51 | -2.38 | -3.01 | -5.05 | 0.38 | 2.79 | 5.98 | Pass |
| 122 | 5610 | -3.92 | -2.15 | -2.48 | -4.33 | 0.38 | 3.27 | 5.98 | Pass |
| 138 (UNII-2C Band) | 5690 | -4.38 | -2.51 | -2.88 | -5.20 | 0.38 | 2.79 | 5.98 | Pass |

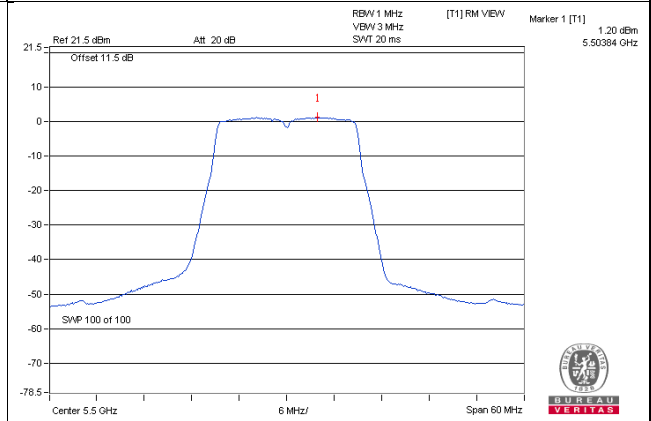
- Note:**
- Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
 - For UNII-2A: Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 10.71\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (10.71 - 6) = 6.29\text{dBm}$.
 - For UNII-2C: Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 11.02\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (11.02 - 6) = 5.98\text{dBm}$.
 - Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

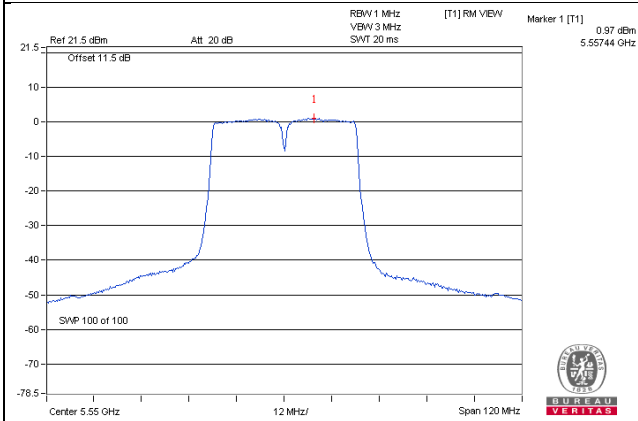
802.11a_Chain 1 / CH64



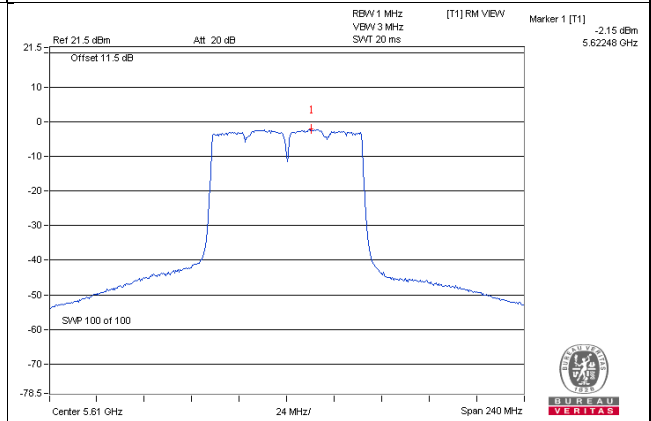
802.11ac (VHT20)_Chain 1 / CH100



802.11ac (VHT40)_Chain 1 / CH110



802.11ac (VHT80)_Chain 1 / CH122



For U-NII-3:
802.11a

| TX chain | Chan. | Chan. Freq. (MHz) | PSD W/O Duty Factor | | 10 log (N=4) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass /Fail |
|----------|-------------------|-------------------|---------------------|--------------|-----------------|------------------|---|--------------------|------------|
| | | | (dBm/300kHz) | (dBm/500kHz) | | | | | |
| 0 | 144 (UNII-3 Band) | 5720 | -8.93 | -6.71 | 6.02 | 0.15 | -0.54 | 25.45 | Pass |
| 1 | 144 (UNII-3 Band) | 5720 | -7.16 | -4.94 | 6.02 | 0.15 | 1.23 | 25.45 | Pass |
| 2 | 144 (UNII-3 Band) | 5720 | -7.46 | -5.24 | 6.02 | 0.15 | 0.93 | 25.45 | Pass |
| 3 | 144 (UNII-3 Band) | 5720 | -10.36 | -8.14 | 6.02 | 0.15 | -1.97 | 25.45 | Pass |

Note: 1. Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 10.55\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (10.55 - 6) = 25.45\text{dBm}$.

2. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT20)

| TX chain | Chan. | Chan. Freq. (MHz) | PSD W/O Duty Factor | | 10 log (N=4) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass /Fail |
|----------|-------------------|-------------------|---------------------|--------------|-----------------|------------------|---|--------------------|------------|
| | | | (dBm/300kHz) | (dBm/500kHz) | | | | | |
| 0 | 144 (UNII-3 Band) | 5720 | -8.47 | -6.25 | 6.02 | 0.10 | -0.13 | 25.45 | Pass |
| 1 | 144 (UNII-3 Band) | 5720 | -7.16 | -4.94 | 6.02 | 0.10 | 1.18 | 25.45 | Pass |
| 2 | 144 (UNII-3 Band) | 5720 | -7.61 | -5.39 | 6.02 | 0.10 | 0.73 | 25.45 | Pass |
| 3 | 144 (UNII-3 Band) | 5720 | -10.70 | -8.48 | 6.02 | 0.10 | -2.36 | 25.45 | Pass |

Note: 1. Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 10.55\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (10.55 - 6) = 25.45\text{dBm}$.

2. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT40)

| TX chain | Chan. | Chan. Freq. (MHz) | PSD W/O Duty Factor | | 10 log (N=4) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass /Fail |
|----------|-------------------|-------------------|---------------------|--------------|-----------------|------------------|---|--------------------|------------|
| | | | (dBm/300kHz) | (dBm/500kHz) | | | | | |
| 0 | 142 (UNII-3 Band) | 5710 | -9.68 | -7.46 | 6.02 | 0.19 | -1.25 | 25.45 | Pass |
| 1 | 142 (UNII-3 Band) | 5710 | -8.21 | -5.99 | 6.02 | 0.19 | 0.22 | 25.45 | Pass |
| 2 | 142 (UNII-3 Band) | 5710 | -8.22 | -6.00 | 6.02 | 0.19 | 0.21 | 25.45 | Pass |
| 3 | 142 (UNII-3 Band) | 5710 | -10.81 | -8.59 | 6.02 | 0.19 | -2.38 | 25.45 | Pass |

Note: 1. Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4]$ = 10.55dBi > 6dBi , so the power density limit shall be reduced to $30-(10.55-6) = 25.45$ dBm.

2. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

| TX chain | Chan. | Chan. Freq. (MHz) | PSD W/O Duty Factor | | 10 log (N=4) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass /Fail |
|----------|-------------------|-------------------|---------------------|--------------|-----------------|------------------|---|--------------------|------------|
| | | | (dBm/300kHz) | (dBm/500kHz) | | | | | |
| 0 | 138 (UNII-3 Band) | 5690 | -13.56 | -11.34 | 6.02 | 0.38 | -4.94 | 25.45 | Pass |
| 1 | 138 (UNII-3 Band) | 5690 | -11.84 | -9.62 | 6.02 | 0.38 | -3.22 | 25.45 | Pass |
| 2 | 138 (UNII-3 Band) | 5690 | -12.25 | -10.03 | 6.02 | 0.38 | -3.63 | 25.45 | Pass |
| 3 | 138 (UNII-3 Band) | 5690 | -14.33 | -12.11 | 6.02 | 0.38 | -5.71 | 25.45 | Pass |

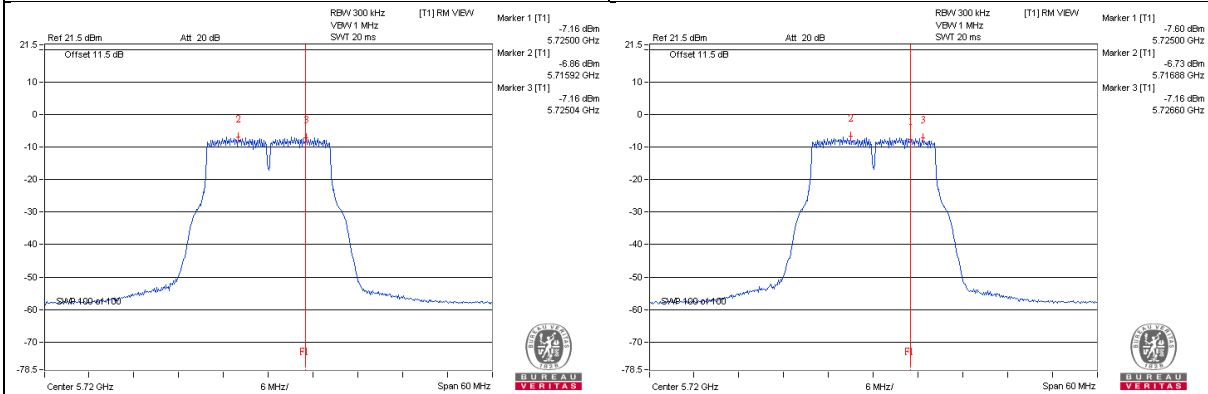
Note: 1. Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4]$ = 10.55dBi > 6dBi , so the power density limit shall be reduced to $30-(10.55-6) = 25.45$ dBm.

2. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

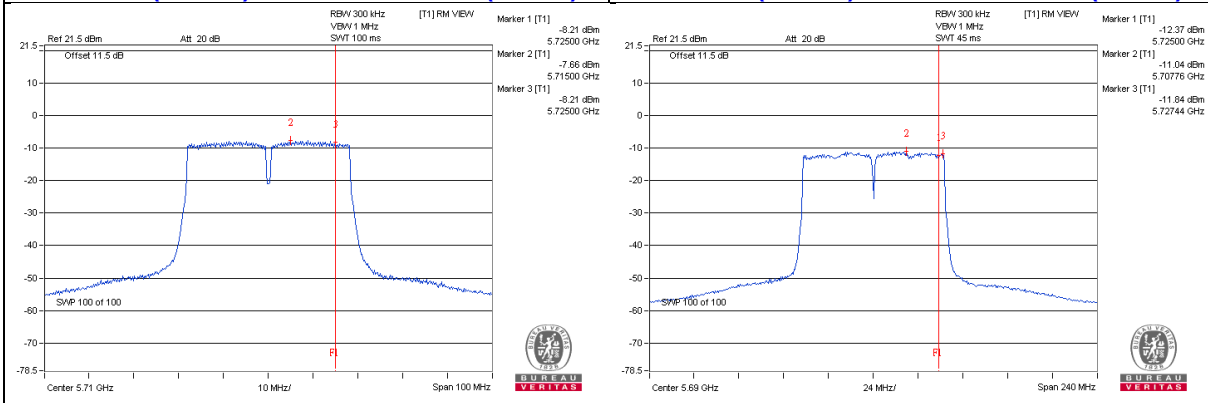
802.11a – Chain 1: CH 144(UNII-3)

802.11ac (VHT20) – Chain 1: CH 144(UNII-3)



802.11ac (VHT40) – Chain 1: CH 142(UNII-3)

802.11ac (VHT80) – Chain 1: CH 138(UNII-3)

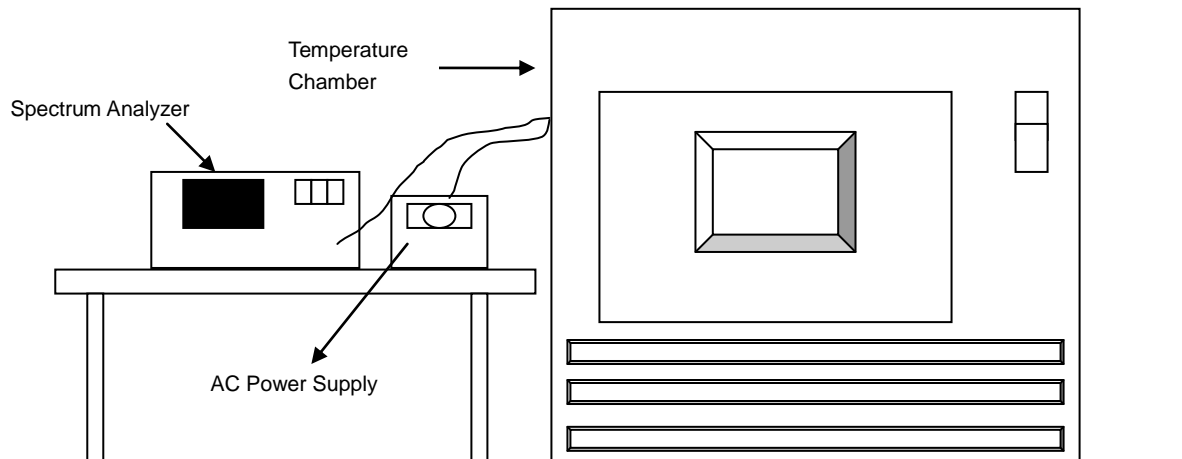


4.6 Frequency Stability Measurement

4.6.1 Limits of Frequency Stability Measurement

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

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- 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.
- Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 Minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

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

4.6.7 Test Results

| Frequency Stability Versus Temp. | | | | | | | | | |
|----------------------------------|--------------------------|--------------------------------|-----------|--------------------------------|-----------|--------------------------------|-----------|--------------------------------|-----------|
| Operating Frequency: 5260 MHz | | | | | | | | | |
| TEMP. (°C) | Power Supply (Vac) | 0 Minute | | 2 Minute | | 5 Minute | | 10 Minute | |
| | | Measured Frequency (MHz) | Pass/Fail | Measured Frequency (MHz) | Pass/Fail | Measured Frequency (MHz) | Pass/Fail | Measured Frequency (MHz) | Pass/Fail |
| 50 | 120 | 5259.9946 | PASS | 5259.9934 | PASS | 5259.9961 | PASS | 5259.995 | PASS |
| 40 | 120 | 5259.9839 | PASS | 5259.9798 | PASS | 5259.9842 | PASS | 5259.9842 | PASS |
| 30 | 120 | 5260.0092 | PASS | 5260.005 | PASS | 5260.0056 | PASS | 5260.0093 | PASS |
| 20 | 120 | 5259.9734 | PASS | 5259.9748 | PASS | 5259.9767 | PASS | 5259.9763 | PASS |
| 10 | 120 | 5260.0121 | PASS | 5260.0146 | PASS | 5260.0141 | PASS | 5260.0138 | PASS |
| 0 | 120 | 5260.0174 | PASS | 5260.017 | PASS | 5260.0175 | PASS | 5260.0176 | PASS |
| -10 | 120 | 5259.998 | PASS | 5260 | PASS | 5259.9999 | PASS | 5259.9994 | PASS |
| -20 | 120 | 5260.0209 | PASS | 5260.0207 | PASS | 5260.0202 | PASS | 5260.0218 | PASS |
| -30 | 120 | 5259.9986 | PASS | 5259.999 | PASS | 5259.9994 | PASS | 5259.9969 | PASS |

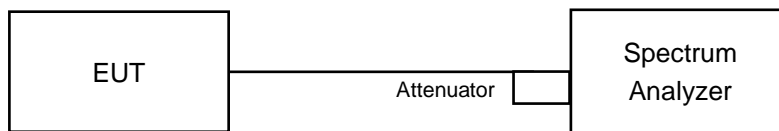
| Frequency Stability Versus Voltage | | | | | | | | | |
|------------------------------------|--------------------------|--------------------------------|-----------|--------------------------------|-----------|--------------------------------|-----------|--------------------------------|-----------|
| Operating Frequency: 5260 MHz | | | | | | | | | |
| TEMP. (°C) | Power Supply (Vac) | 0 Minute | | 2 Minute | | 5 Minute | | 10 Minute | |
| | | Measured Frequency (MHz) | Pass/Fail | Measured Frequency (MHz) | Pass/Fail | Measured Frequency (MHz) | Pass/Fail | Measured Frequency (MHz) | Pass/Fail |
| 20 | 138 | 5259.9728 | PASS | 5259.9755 | PASS | 5259.9765 | PASS | 5259.9757 | PASS |
| | 120 | 5259.9734 | PASS | 5259.9748 | PASS | 5259.9767 | PASS | 5259.9763 | PASS |
| | 102 | 5259.9729 | PASS | 5259.9755 | PASS | 5259.9776 | PASS | 5259.9768 | PASS |

4.7 6dB Bandwidth Measurement

4.7.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

4.7.2 Test Setup



4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.7.4 Test Procedure

MEASUREMENT PROCEDURE REF

- a. Set resolution bandwidth (RBW) = 100kHz
- b. Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- c. Trace mode = max hold.
- d. Sweep = auto couple.
- e. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

4.7.5 Deviation from Test Standard

No deviation.

4.7.6 EUT Operating Condition

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

4.7.7 Test Results

802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | | | Minimum Limit (MHz) | Pass / Fail |
|----------------------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | |
| 144 (UNII-3 Band) | 5720 | 3.17 | 3.17 | 3.17 | 3.17 | 0.5 | Pass |

802.11ac (VHT20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | | | Minimum Limit (MHz) | Pass / Fail |
|----------------------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | |
| 144 (UNII-3 Band) | 5720 | 3.79 | 3.17 | 3.80 | 3.79 | 0.5 | Pass |

802.11ac (VHT40)

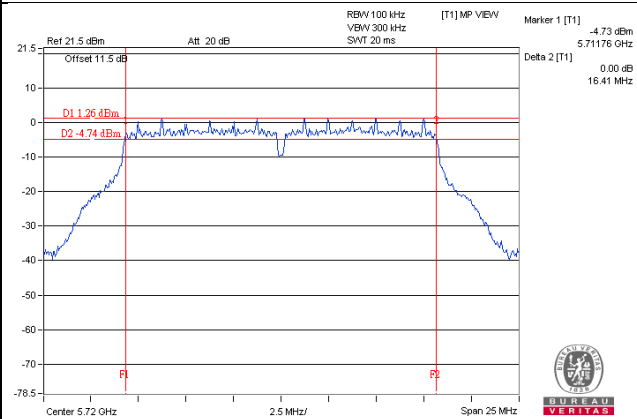
| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | | | Minimum Limit (MHz) | Pass / Fail |
|----------------------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | |
| 142 (UNII-3 Band) | 5710 | 3.23 | 3.23 | 3.21 | 3.22 | 0.5 | Pass |

802.11ac (VHT80)

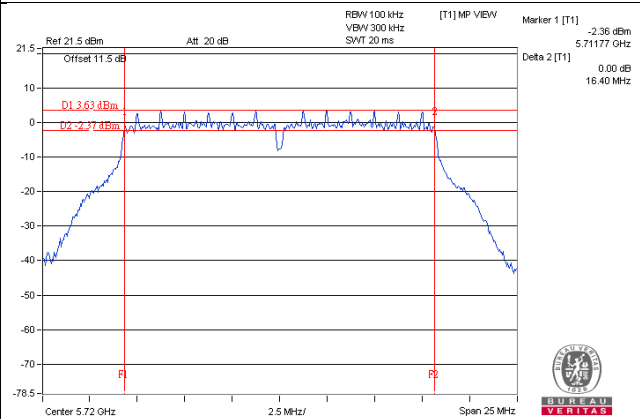
| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | | | Minimum Limit (MHz) | Pass / Fail |
|----------------------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | |
| 138 (UNII-3 Band) | 5690 | 3.21 | 3.25 | 3.18 | 3.16 | 0.5 | Pass |

Spectrum Plot of Worst Value

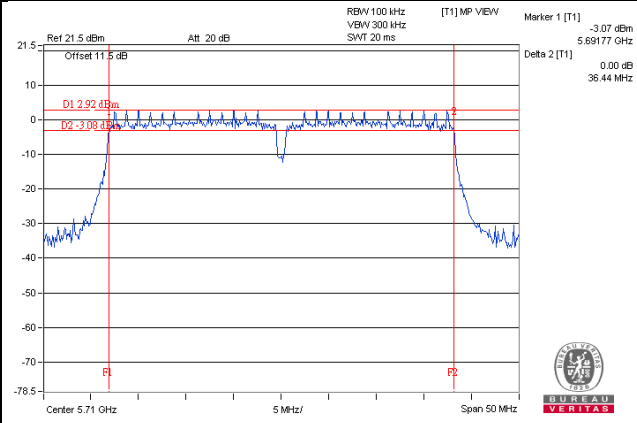
802.11a_Chain 0 / CH144 (UNII-3 Band)



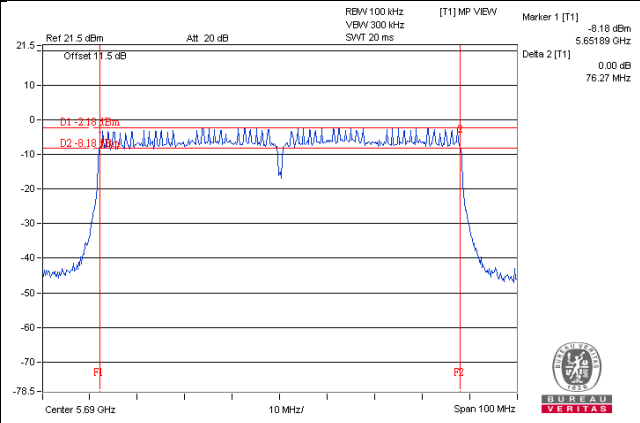
802.11ac (VHT20)_Chain 1 / CH144 (UNII-3 Band)



802.11ac (VHT40)_Chain 2 / CH142 (UNII-3 Band)



802.11ac (VHT80)_Chain 3 / CH138 (UNII-3 Band)



Note: The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

5 Pictures of Test Arrangements

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

Appendix – Information on the Testing Laboratories

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

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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